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CONTENTS

	Page
DECISIONS OF THE COMMISSIONER OF PATENTS, April 7, 14, 21, 28	3, 269, 493, 713
TRADE-MARKS PUBLISHED AND REGISTERED, April 7, 14, 21, 28	7, 273, 501, 725
REISSUES, April 7, 14, 21, 28	33, 293, 521, 751
PLANT PATENTS, April 7, 14, 21, 28	—, 295, —, 753
PATENTS, April 7, 14, 21, 28	36, 296, 523, 754
DESIGNS, April 7, 14, 21, 28	243, 471, 695, 937

ANNOUNCEMENTS

	Page
ADVERSE DECISIONS IN INTERFERENCE	272, 711
APPLICATIONS—Condition of pending	2, 268, 492, 712
ATTORNEYS—Examination of—Rule 17	711
BULLETIN OF DECISIONS ON TRADE-MARKS	722
DISCLAIMERS—Balon, Walter J., et al	1
Barbieri, Cesare	1
Brown, James C	1
Bullock, Giles E	721
Burk, Robert E., et al	491
Curtin, Leo P. (2 cases)	1
Donley, Harold B., et al	1
Fox, Ernest C	721
Gavin, Edward M	721
Gordon, James	491
Hagen, Harold F	1
Le Tourneau, Robert G. (2 cases)	1
DIVISION 10—Abolishment of—(*Order No. 3617*)	491
DRAWINGS—Description of—Rules 38 and 52	491
PATENTS—List of adjudicated	6, 267, 491, 711
PATENT SUITS	271, 499, 719
TRADE-MARK REGISTRATIONS CANCELLED	267, 721
Notice of cancellation	6, 267, 491, 711

TABLE OF CASES REPORTED

	Page
*Edmunds, In re	716
▪Exhibit Supply Company *v.* Ace Patents Corp.; Genco, Inc., *v.* Ace Patents Corporation; Chicago Coin Machine Co. *v.* Ace Patents Corp	493
*Gladeck, In re	718
*Langendorf United Bakeries, Inc., *v.* General Foods Corporation	3
▪Morrison *v.* Coe, Com. of Patents	269
*Petty *v.* Giles	496
▪Standard Cap and Seal Corporation *v.* Coe, Com. of Patents	713
*Wincharger Corporation *v.* Winchester Repeating Arms Company (Western Cartridge Company, assignee, substituted)	5
▪Wingfoot Corporation *v.* Coe, Com. of Patents	269

(Decisions of the United States Court of Appeals for the District of Columbia are indicated by the letter (▪); of the United States Court of Customs and Patent Appeals by a star; and of the Supreme Court of the United States by the letter (*).)

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LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Adams, Hazel, Coffeyville, Kans. Fly spray. Serial No. 433,117; Apr. 7. Class 6.

Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Power transmission machinery. Serial No. 450,581; Apr. 7. Class 23.

All-Styles Hanger Co, Inc., The, New York, N. Y. Garment hangers. Serial No. 450,411; Apr. 7. Class 50.

Alton Canning Co., Alton, N. Y. Canned fruits and vegetables. Serial No. 451,063; Apr. 7. Class 46.

American Viscose Corporation, Wilmington, Del. Yarns, threads and yarn and thread filaments. Serial No. 450,916. Apr. 7. Class 43.

Amity Leather Products Co., West Bend, Wis. Billfolds. Serial No. 451,158; Apr. 7. Class 3.

Baers, The, Chicago, Ill. Comic strip. Serial No. 449,248; Apr. 7. Class 38.

Baers, The, Chicago, Ill. Comic strip. Serial No. 449,512; Apr. 7. Class 38.

Bamberger, L., & Co., Newark, N. J. Wines. Serial No. 448,815; Apr. 7. Class 47.

Bates, Hamilton C., doing business as C. J. Bates & Son, Chester, Conn. Crochet hooks. Serial Nos. 449,751–4; Apr. 7. Class 40.

Birmingham Ice & Cold Storage Company. (See Southern Frosted Foods, Inc., assignor.)

Boyle, A. S., Company, The, Jersey City, N. J. Plastic compound. Serial No. 450,562; Apr. 7. Class 50.

Brandt Leather Corporation, Boston, Mass. Leather. Serial No. 449,792; Apr. 7. Class 1.

Breck, John H., Inc., Springfield, Mass. Liquid material for cleaning the hair. Serial No. 449,540; Apr. 7. Class 6.

Burbank Winery, The. (See McClure, John, Estate, Inc.)

Callite Tungsten Corporation, Union City, N. J. Electric contacts, electric tube and lamp welds, etc. Serial No. 445,714; Apr. 7. Class 21.

Carling Breweries, Limited, The, Waterloo, Ontario, Canada. Ales, beers, lagers, etc. Serial No. 448,780; Apr. 7. Class 48.

Catalin Corporation, New York, N. Y. Resinous material. Serial No. 446,261; Apr. 7. Class 1.

Celotex Corporation, The, Chicago, Ill. Asphalts. Serial No. 450,443; Apr. 7. Class 1.

Central Fuel Corporation, Chicago, Ill. Coal. Serial No. 450,444; Apr. 7. Class 1.

Central Fuel Corporation, Chicago, Ill. Coal. Serial No. 450,615; Apr. 7. Class 1.

Charm-Kurl Company, St. Paul, Minn. Permanent wave preparation. Serial No. 450,445; Apr. 7. Class 6.

Chemex Corporation, New York, N. Y. Coffee makers. Serial No. 450,526; Apr. 7. Class 13.

Cheney Brothers, Manchester, Conn., and New York, N. Y. Neckties. Serial No. 450,953; Apr. 7. Class 39.

Combustion Engineering Company, Inc., Wilmington, Del., and New York, N. Y. Steam generating boilers, boiler furnace water walls utilizing plain tubes, etc., and parts thereof. Serial No. 443,402; Apr. 7. Class 34.

Combustion Engineering Company, Inc., New York, N. Y. Steam generating boilers, water cooled furnace walls, pulverizers, fuel burners, etc., and parts thereof. Serial No. 443,403; Apr. 7. Class 34.

Cooperativa Nacional de Productores de Leche, Montevideo, Uruguay. Dairy products. Serial No. 449,640; Apr. 7. Class 46.

Coty, Inc., New York, N. Y. Face powder, dusting powder, toilet water, etc. Serial No. 450,447; Apr. 7. Class 6.

Crafton Mutual Orchards, Mentone, Calif. Fresh citrus fruit. Serial No. 451,005; Apr. 7. Class 46.

D'Arrigo Brothers Company, San Jose, Calif. Fresh vegetables. Serial No. 450,257; Apr. 7. Class 46.

Delaware Machinery Corporation, New York, N. Y. Metal working machinery. Serial No. 445,490; Apr. 7. Class 23.

Dugas Engineering Corporation, Marinette, Wis. Extinguishing compound for magnesium, potassium, etc., metal fires, etc. Serial No. 451,165; Apr. 7. Class 6.

Ebbert, Daniel F., Wheeling, W. Va. Chairs and folding beds. Serial No. 450,794; Apr. 7. Class 32.

El Toro Elastics, Inc., New York, N. Y. Elastic girths and belly bands for animals. Serial No. 449,254; Apr. 7. Class 3.

Endicott Johnson Corporation, Endicott, N. Y. Leather boots and shoes. Serial No. 450,538; Apr. 7. Class 39.

Ensminger, John T., doing business as The Scintillation Co., Chicago, Ill. Eye lotion. Serial No. 451,104; Apr. 7. Class 6.

Fleetwings, Incorporated, Bristol, Pa. Hydraulic valves. Serial No. 450,849; Apr. 7. Class 13.

Forth, Ronald A., Inc., Boston, Mass. Skins, hides, and leathers. Serial No. 447,632; Apr. 7. Class 1.

French Art Silk Creations Co. (See Tardy, Suzanne.)

Fretz, William F., & Son, Doylestown, Pa. Trousers. Serial No. 445,845; Apr. 7. Class 39.

Fuchs, Jacob, Brooklyn, N. Y. Casein glue. Serial No. 448,824; Apr. 7. Class 5.

Geeting & Fromm, Inc., Chicago, Ill. Still and sparkling wines. Serial No. 450,097; Apr. 7. Class 47.

General Match Company, The, Reading, Ohio. Matches. Serial No. 449,089; Apr. 7. Class 9.

Gilbert, A. C., Company, The, New Haven, Conn. Electrically operated or electrically controlled apparatus and parts thereof for installation as a unit in hollow toy articles. Serial No. 444,760; Apr. 7. Class 21.

Gilda Audrey Products, Inc., New York, N. Y. Hair creams. Serial No. 451,079; Apr. 7. Class 6.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Belts, hose, washers, etc. Serial No. 447,288; Apr. 7. Class 35.

Great Atlantic & Pacific Tea Company, The, New York, N. Y. Starch. Serial No. 451,036; Apr. 7. Class 6.

Grocery Products Manufacturing Corporation, Union City, N. J., and West Chester, Pa. Canned mushrooms. Serial No. 450,878; Apr. 7. Class 46.

Harbourts Drug Company, Trenton, N. J. Medicinal preparation. Serial No. 440,781; Apr. 7. Class 6.

Harrison Paint & Varnish Company, The. (See Walters, George G.)

Homix Products, Inc., New York, N. Y. Beverages, fruit juice, sirup and extracts for making the same. Serial No. 448,613; Apr. 7. Class 45.

Huntington Laboratories, Inc., Huntington, Ind. Soap for cleansing wood, linoleum, terrazzo, etc. Serial No. 450,228; Apr. 7. Class 4.

Ide Jewelry Co., Inc., New York, N. Y. Watch cases. Serial No. 449,136; Apr. 7. Class 27.

Iwasaki, Tetsuo F., doing business as Rancho Brokerage Co., Brawley, Calif. Fresh vegetables. Serial No. 450,508; Apr. 7. Class 46.

Kellogg Company, Battle Creek, Mich. Feed ingredient or supplement to be added to animal feeds. Serial No. 449,488; Apr. 7. Class 46.

Kellogg, Spencer, and Sons., Inc., Buffalo, N. Y. Flour. Serial No. 443,306; Apr. 7. Class 46.

Kelly-Springfield Tire Company, The, Cumberland, Md. Tires. Serial No. 450,967; Apr. 7. Class 35.

Kloster Steel Corporation, Chicago, Ill. Die and tool steel. Serial No. 450,739; Apr. 7. Class 14.

Kohnstamm, H., & Co., Inc., New York, N. Y. Washing compound for laundry purposes. Serial No. 450,543; Apr. 7. Class 4.

Krasdale Foods, Inc. (See Krasne, A., Inc.)

Krasne, A., Inc., now by change of name to Krasdale Foods, Inc., New York, N. Y. Canned fruits, fruit juices, vegetables, etc., olives, wheat flour and apple sauce. Serial No. 438,509; Apr. 7. Class 46.

Kuhn, Maurice H., Los Angeles, Calif. Peanut butter spread. Serial No. 450,262; Apr. 7. Class 46.

Leighton Hats, Inc., New York, N. Y. Ladies' hats. Serial No. 440,051; Apr. 7. Class 39.

Lerer, Henry, doing business as Medical Aid Supply Company, New York, N. Y. First aid kits and bandages. Serial No. 450,364; Apr. 7. Class 44.

Liebert and Obert, Philadelphia, Pa. Beer. Serial No. 450,366; Apr. 7. Class 48.

Liebert and Obert, Philadelphia, Pa. Ale. Serial No. 450,367; Apr. 7. Class 48.

Lissner, H., Company, Inc., Wilmington, Del. and New York, N. Y. Trousers for men and boys. Serial Nos. 450,452–3; Apr. 7. Class 39.

Loewenstein Bros. Inc., New York, N. Y. Women's neckwear, collars and cuffs, etc. Serial No. 439,767; Apr. 7. Class 39.

Lone Star Peat Moss Company, Dallas, Tex. Peat moss. Serial No. 450,368; Apr. 7. Class 1.

Lortogs, Inc., New York, N. Y. Women's, ladies', misses' and girls' slacks. Serial No. 450,804; Apr. 7. Class 39.

Lynch, Buford Alexander, Washington, D. C. Newspaper column. Serial No. 450,983; Apr. 7. Class 38.

Malanowski, Stanley, Tampa, Fla. Oil filters. Serial No. 448,699; Apr. 7. Class 31.

Margolin, Meyer, doing business as Resilient Insole Co., Elgin, Ill. Shoes and innersoles for shoes. Serial No. 443,984; Apr. 7. Class 39.

McClure, John, Estate, Inc., doing business as The Burbank Winery, Los Angeles, Calif. Brandy. Serial No. 451,112; Apr. 7. Class 49.

Medical Aid Supply Company. (See Lerer, Henry.)

Meta-Fold Awning Company, Bluffton, Ohio. Metal awnings. Serial No. 448,005; Apr. 7. Class 50.

Metaltex Inc., New York, N. Y. Toilet sets and dresser sets. Serial No. 447,585; Apr. 7. Class 40.

Micro Switch Corporation, Freeport, Ill. Electric switches, actuator mechanisms, housings, etc. Serial No. 439,353; Apr. 7. Class 21.

Micro Switch Corporation, Freeport, Ill. Electric switches. Serial No. 439,355; Apr. 7. Class 21.
Miramar Trading Corporation, Brooklyn, N. Y. Wine vinegar, spices, olives, etc. Serial No. 450,019; Apr. 7. Class 46.
Mumm, G. H., Champagne and Associates Incorporated (Société Vinicole de Champagne, Successeur), New York, N. Y. Wine. Serial No. 450,511; Apr. 7. Class 47.
Nadin, Inc., Los Angeles, Calif. Astringent hygienic powder. Serial No. 451,113; Apr. 7. Class 6.
National Aluminate Corporation, Chicago, Ill. Chemical compositions for cellulosic products. Serial Nos. 450,857–8; Apr. 7. Class 6.
National Biscuit Company, New York, N. Y. Pastry cups. Serial No. 444,272; Apr. 7. Class 46.
National Shirt Shops of Delaware, Inc., New York, N. Y. Haberdashery. Serial No. 446,130; Apr. 7. Class 39.
Near's Food Co., Inc., Binghamton, N. Y. Digestive tonics and mineral supplements for animal and poultry. Serial No. 450,515; Apr. 7. Class 6.
Nelson, Clarence E. (See Vamos, Alfred, assignor.)
Norcross, New York, N. Y. Greeting cards. Serial No. 451,015; Apr. 7. Class 38.
Orchard Products Co., Chicago, Ill. Nutritious food in bar form. Serial No. 447,402; Apr. 7. Class 46.
Ovazza, Vittorio. (See Treves, Angiolo, Dario Treves, and Vittorio Ovazza.)
Paper Manufacturers Co., Philadelphia, Pa. Telegraph paper tape. Serial No. 450,076; Apr. 7. Class 37.
Plaskon Company, Incorporated, Toledo, Ohio. Lacquers, lacquer resins, paint enamels, etc. Serial No. 445,331; Apr. 7. Class 16.
Plough, Betty, doing business as The Seville Company, St. Cloud, Minn. Ointment. Serial No. 436,401; Apr. 7. Class 6.
Plunkett, W. H., doing business as Plunkett Chemical Company, Chicago, Ill. Insecticide. Serial No. 450,683; Apr. 7. Class 6.
Plunkett, W. H., doing business as Plunkett Chemical Company, Chicago, Ill. Rodenticide. Serial No. 450,692; Apr. 7. Class 6.
Poindexter, H. T. and Sons Merchandise Company, Kansas City, Mo. Hosiery. Serial No. 450,862; Apr. 7. Class 39.
Quinn, K. J., & Co., Inc., Boston, Mass. Shoe and leather finishes. Serial No. 449,500; Apr. 7. Class 4.
Radiator Specialty Company, Charlotte, N. C., Los Angeles, Calif., and Toronto, Ontario, Canada. Chemical preparation. Serial No. 446,891; Apr. 7. Class 6.
Rancho Brokerage Co. (See Iwasaki, Tetsuo, F.)
Red Spot Paint & Varnish Co., Inc., Evansville, Ind. Protective coating. Serial No. 449,020; Apr. 7. Class 16.
Resilient Insole Co. (See Margolin, Meyer.)
Rohm & Haas Company, Philadelphia, Pa. Chemicals used in the manufacture of lubricants and hydraulic fluids. Serial No. 450,405; Apr. 7. Class 6.
Roth, Chester H., Co., Inc., New York, N. Y. Hosiery. Serial No. 439,879; Apr. 7. Class 39.
Rubinstein, Helena, Inc., New York, N. Y. Lipsticks. Serial No. 450,921; Apr. 7. Class 6.
Rush, Fred W., doing business as Fred W. Rush Co., Los Angeles, Calif. Fresh vegetables. Serial Nos. 450,942–3; Apr. 7. Class 46.
San Fernando Citrus Association, San Fernando, Calif. Fresh citrus fruit. Serial No. 447,956; Apr. 7. Class 46.
Sauer, Hilma O., Parma, Ohio. Pile pomade. Serial No. 451,191; Apr. 7. Class 6.
Schering Corporation, Bloomfield, N. J. Medicinal preparation. Serial No. 450,461; Apr. 7. Class 6.
Scintillation Co., The. (See Ensminger, John T.)
Select Sportswear, Inc., New York, N. Y. Ladies' and misses' knitted sport sweaters and two piece knitted dresses. Serial No. 445,301; Apr. 7. Class 39.
Seville Company, The. (See Plough, Betty.)
Siegel, Jacob, Company, Philadelphia, Pa. Men's topcoats and overcoats. Serial No. 450,698; Apr. 7. Class 39.
Southern Frosted Foods, Inc., assignor to Birmingham Ice & Cold Storage Company, Birmingham, Ala. Frozen fruits. Serial No. 443,305; Apr. 7. Class 46.
Sportowne Coat Co. Inc., New York, N. Y. Ladies' and misses' coats and suits. Serial No. 426,714; Apr. 7. Class 39.
Stanford Fruit Growers, Inc., Lake Alfred, Fla. Fresh citrus fruits. Serial No. 450,291; Apr. 7. Class 46.
Sta-Rite Ginnie-Lou, Inc., Shelbyville, Ill. Fingernail wax. Serial No. 443,959; Apr. 7. Class 6.
Strobl, Alexander, doing business as Strobilite Company, New York, N. Y. Lacquers, paints, and paint pigments. Serial No. 449,302; Apr. 7. Class 16.
Strobl, Alexander, doing business as WTP, New York, N. Y. Lacquers, paints, and paint pigments. Serial No. 449,303; Apr. 7. Class 16.
Strobilite Company. (See Strobl, Alexander.)
Sucro-Blanc, Inc., New York, N. Y. Thermally activated bauxite for adsorptive decolorization. Serial No. 451,041; Apr. 7. Class 6.
Tardy, Suzanne, doing business as French Art Silk Creations Co., New York, N. Y. Perfumes. Serial No. 451,061; Apr. 7. Class 6.
Taylor Instrument Companies, Rochester, N. Y. Altimeters. Serial No. 449,789; Apr. 7. Class 26.
Technical Color & Chemical Works, Inc., Brooklyn, N. Y. Paints and enamels, varnishes, varnish remover, etc. Serial Nos. 449,468–9; Apr. 7. Class 16.
Texas Consumers Co., Inc., Galveston, Tex. Tea, coffee, hot catsup, etc. Serial No. 448,309; Apr. 7. Class 46.
Toledo Steel Products Company, The, Toledo, Ohio. Engine pistons, engine piston pins and engine bearings, etc. Serial No. 448,017; Apr. 7. Class 23.
Treves, Angiolo, Dario Treves and Vittorio Ovazza, Turin, Italy. Rubber substitutes and rubber composition material. Serial No. 440,035; Apr. 7. Class 50.
Treves, Dario. (See Treves, Angiolo, Dario Treves, and Vittorio Ovazza.)
Vamos, Alfred, assignor to Clarence E. Nelson, New York, N. Y. Leather. Serial Nos. 448,175–6; Apr. 7. Class 1.
WTP. (See Strobl, Alexander.)
Walters, George G., doing business as The Harrison Paint & Varnish Company, Canton, Ohio. Oil paints, paint enamels, and varnish. Serial No. 450,925; Apr. 7. Class 16.
Washington Co-Operative Egg and Poultry Association, Seattle, Wash. Dog and cat food. Serial Nos. 450,038–9; Apr. 7. Class 46.
Weitz, S., & Co., Inc., Cleveland, Ohio. Men's topcoats, overcoats, and suits. Serial No. 450,871; Apr. 7. Class 39.
Wenz, Frank, doing business as Frank Wenz Company, Chicago, Ill. Mineral Saltlick stone for livestock. Serial No. 450,842; Apr. 7. Class 6.
Widmayer, John J., doing business as Widmayer Steel Company, Washington, D. C. Building block for plastic floors or roofs. Serial No. 449,984; Apr. 7. Class 12.
Wilbur & Williams Company, The, Boston, Mass. Paint. Serial No. 448,023; Apr. 7. Class 16.
Wolf Brothers, Philadelphia, Pa. Bags and envelopes made of paper. Serial No. 438,747; Apr. 7. Class 2.
Xana Inc., New York, N. Y. Brassières, corsets, and ladies' nightgowns. Serial No. 450,040; Apr. 7. Class 39.
Zendman, I., Inc., New York, N. Y. Laces in the piece. Serial No. 449,934; Apr. 7. Class 42.

LIST OF REGISTRANTS OF TRADE-MARKS

Acco Products, Inc. (See Kline, Fred J., assignor.)
Acheson-Harden Co., The, New York, N. Y. Handkerchiefs. 157,844; renewed Aug. 22, 1942.
Acme Patent Development Corporation, Long Beach, Calif. Oil well fishing tool. 394,507; Apr. 7. Class 23.
Adam Hat Stores, Inc., New York, N. Y. Men's hats. 394,454; Apr. 7; Serial No. 447,414; published Jan. 20, 1942. Class 39.
American Bleached Goods Company, New York, N. Y., Chicago, Ill., and St. Louis, Mo., assignor to American Bleached Goods Company, Inc., New York, N. Y. Cotton goods in the piece. 156,158; renewed June 20, 1942.
American Bleached Goods Company, Inc., New York, N. Y. Cotton and rayon piece goods. 394,468; Apr. 7; Serial No. 448,215; published Jan. 20, 1942. Class 42.
American Druggists Syndicate, assignor, by mesne assignments, to Valdsco Sales Corporation, Long Island City, N. Y. Tooth paste, massage cream, tooth powder, etc. 156,161; renewed June 20, 1942.
American Tobacco Company, The. (See Falk Tobacco Company, Incorporated.)
Andrews, William T., doing business as Andrews Industries, Stamford, Conn. Electric typewriter carriage shift. 394,459; Apr. 7; Serial No. 447,786; published Jan. 27, 1942. Class 23.
Arkadelphia Milling Company, Incorporated, Arkadelphia, Ark. Wheat flour. 394,462; Apr. 7; Serial No. 447,927; published Jan. 27, 1942. Class 46.
Atlantic Refining Company, The, Philadelphia, Pa. Gasoline. 394,487; Apr. 7; Serial No. 448,888; published Jan. 20, 1942. Class 15.
Axton-Fisher Tobacco Company, The, Louisville, Ky. Cigarettes and smoking tobacco. 394,476; Apr. 7; Serial No. 448,466; published Jan. 27, 1942. Class 17.
Baker Food Products Company, Chicago, Ill. Foods. 154,482–4; renewed Apr. 18, 1942.
Barnes, Henry K., Company, Salem, Mass. Leather textile aprons. 394,490; Apr. 7; Serial No. 448,933; published Jan. 27, 1942. Class 23.
Behr, Herman, & Company, Incorporated, Brooklyn, assignor to Behr-Manning Corporation, Troy, N. Y. Abrasive papers and cloths. 157,642; renewed Aug. 15, 1942.
Berg, F., & Co., Orange, N. J., assignor, by mesne assignments, to Hat Corporation of America, Norwalk, Conn. Men's felt hats. 157,866; renewed Aug. 22, 1942.
Berkeley Company, assignor, by mesne assignments, to Lonsdale Company, Providence, R. I. Cambrics in the piece. 157,460; renewed Aug. 8, 1942.

Bianchini, Ferier, Lyons, France, assignor to Bianchini Ferier, Inc., New York, N. Y. Piece goods of silk, wool, linen, etc. 155,384; renewed May 30, 1942.
Bowman Hat Company, Knoxville, Tenn. Hats and caps. 394,431; Apr. 7; Serial No. 439,069; published Feb. 25, 1941. Class 39.
Bruno, C., & Son, Inc., New York, N. Y. Stringed musical instruments and parts thereof. 158,198; renewed Aug. 29, 1942.
Burton-Dixie Corporation. (See Robinson-Roders Co.)
Camden Furniture Company, Camden, Ark. Wooden bedroom furniture. 394,497; Apr. 7; Serial No. 449,407; published Jan. 27, 1942. Class 32.
Cavendish Trading Corp., New York, N. Y. Women's and misses' coats, suits, dresses, etc. 394,518; Apr. 7. Class 39.
Cheney Brothers, Manchester, Conn., and New York, N. Y. Neckties. 394,514; Apr. 7. Class 39.
Chesapeake Shoe Mfg. Co., The, Baltimore, Md. Children's, misses, and girls' shoes of leather and/or cloth. 394,467; Apr. 7; Serial No. 448,183; published Jan. 20, 1942. Class 39.
Clark Equipment Company, Buchanan, Mich. Internal combustion engine units. 394,500; Apr. 7. Class 23.
Cleveland Tractor Company, The, Euclid, to The Cleveland Tractor Company, Cleveland, Ohio. Cultivators, plows, harrows, etc. 154,907; renewed May 16, 1942.
Cohen, N. B., assignor to N. B. Cohen Company, Scranton, Pa. Hair nets. 157,902; renewed Aug. 22, 1942.
Cohn-Hall-Marx Co., New York, N. Y. Cotton piece goods. 156,211; renewed June 20, 1942.
Collins, Clyde, Company, Inc., The, to Clyde Collins, Inc., Memphis, Tenn., successor. Tonic for rheumatism. 150,300; renewed Jan. 3, 1942.
Companhia Antarctica Paulista, Sao Paulo, Brazil. Natural mineral waters, non-alcoholic maltless beverages, syrups, and extracts for making soft drinks. 394,440; Apr. 7; Serial No. 445,133; published Jan. 13, 1942. Class 45.
Companhia Antarctica Paulista, Sao Paulo, Brazil. Beers, porters, and ales. 394,441; Apr. 7; Serial No. 445,135; published Jan. 13, 1942. Class 48.
Conbro Products Co., New York, N. Y. Hair nets. 394,457; Apr. 7; Serial No. 447,630; published Jan. 20, 1942. Class 39.
Consumers Oil & Belting Company, Inc., New York, N. Y. Lubricating oil. 394,450; Apr. 7; Serial No. 447,119; published Jan. 20, 1942. Class 15.
Coventry Climax Engines Limited, Coventry, England. Internal combustion engines and fire-fighting appliances. 394,471; Apr. 7; Serial No. 448,244; published Jan. 27, 1942. Class 23.
Cowden Manufacturing Company, Kansas City, Mo. Shirt and trouser ensembles, overalls, pants, etc. 394,451; Apr. 7; Serial No. 447,227; published Jan. 20, 1942. Class 39.
Dalby, Thomas, Company, The, assignor to Thomas Dalby, Inc., Watertown, Mass. Clothing. 157,919; renewed Aug. 22, 1942.
Danjean, Sidney J., Sr., Franklin, La. Preparation for cleaning the hands. 152,735; renewed Mar. 7, 1942.
Daryl Dress Co., St. Louis, Mo. Dresses and dress ensembles. 394,480; Apr. 7; Serial No. 448,603; published Jan. 27, 1942. Class 39.
Davis, A., & Sons, Inc., New York, N. Y. Women's and ladies' and misses' coats, suits, and jackets. 394,474; Apr. 7; Serial No. 448,379; published Jan. 27, 1942. Class 39.
Davis, Wm. D., doing business as Standard Medical Company, assignor to Standard Medical Company, Inc., Lansford, Pa. Ointment. 158,421; renewed Sept. 5, 1942.
Day-Brite Lighting, Inc., St. Louis, Mo. Electric lighting fixtures, particularly fluorescent industrial fixtures. 394,456; Apr. 7; Serial No. 447,557; published Jan. 27, 1942. Class 21.
De Nobili Cigar Co., Inc., Long Island City and New York, to De Nobili Cigar Company, Inc., Long Island City, N. Y. Cigars. 157,923; renewed Aug. 22, 1942.
Dent, Allcroft & Co. Limited, London, England. Gloves. 394,426; Apr. 7; Serial No. 411,947; published Jan. 20, 1942. Class 39.
De Pinna, A., Co., Inc., New York, N. Y. Girls' and children's dresses, hats, outerskirts, leather shoes, playsuits, coats, etc. 394,465; Apr. 7; Serial No. 448,095; published Jan. 20, 1942. Class 39.
Detroit Twist Drill Co., Detroit, Mich. Reamers and milling cutters. 157,489; renewed Aug. 8, 1942.
Diadem, Inc., Leominster, Mass. Combined comb and pin for securing hats, bows, ribbons, flowers, etc. 394,473; Apr. 7; Serial No. 448,287; published Jan. 20, 1942. Class 40.
Drug Guild, Inc., New York, N. Y. Antiseptic mouth wash. 394,442; Apr. 7; Serial No. 445,979; published Jan. 13, 1942. Class 6.
Endicott Johnson Corporation, Endicott, N. Y. Shoes. 394,516; Apr. 7. Class 39.
En-Tout-Cas Company Limited, The, Leicester, England. Burnt clay. 394,444; Apr. 7; Serial No. 446,022; published Jan. 20, 1942. Class 12.
Epstein, Isaac, assignor, by mesne assignments, to I. Epstein & Sons, Inc., Newark, N. J. Food products. 156,864; renewed July 18, 1942.
Falk Tobacco Company, Incorporated, to The American Tobacco Company, New York, N. Y., successor. Cigars, cigarettes, and tobacco. 155,959; renewed June 13, 1942.
Finger Lakes Honey Producers Co-Operative, Incorporated, Groton, N. Y. Honey. 394,506; Apr. 7. Class 46.
Fletcher Enamel Company, The, Dunbar, W. Va. Base metal roasters. 394,501; Apr. 7. Class 13.
Flynn, John H., Jr., Cincinnati, Ohio. Tackle blocks. 152,401; renewed Feb. 28, 1942.
Ford, Thomas G., doing business as Van Buren Chemical Company, Chicago, Ill. Detergents. 394,524; Apr. 7. Class 4.
Fox Head Waukesha Corporation. (See Milwaukee-Waukesha Brewing Company.)
Frank & Meyer Neckwear Company, St. Louis, Mo. Neckties. 394,429; Apr. 7; Serial No. 437,764; published Jan. 14, 1941. Class 39.
Fricke & Getz Dental Mfg. Co., Chicago, Ill. Material for making dentures, jackets, inlays, bridges, veneers, and teeth. 394,498; Apr. 7; Serial No. 449,485; published Jan. 27, 1942. Class 44.
Gem Crib and Cradle Company, Gardner, Mass. Cribs, cradles, and nursery furniture. 151,772; renewed Feb. 14, 1942.
Gimbel Brothers, Inc., New York, N. Y. Muslin sheets and pillow cases, cotton terry towels, etc., and rayon piece goods. 394,515; Apr. 7. Class 42.
Goodrich, B. F., Company, The, New York, N. Y. Mats made wholly or partly of rubber. 152,409; renewed Feb. 28, 1942.
Great Lakes Varnish Works, Inc., Chicago, Ill. Ready mixed paint. 394,513; Apr. 7. Class 16.
Guarantee Specialty Manufacturing Co., The, Cleveland, Ohio. Venetian blinds, metal and wood tassels, brackets, etc. 394,475; Apr. 7; Serial No. 448,453; published Jan. 27. 1942. Class 13.
Hasslinger's Restaurant. (See Hasslinger, Walter.)
Hasslinger, Walter, assignor to Edna P. Sterling and George R. Nelson, doing business as Hasslinger's Restaurant, Baltimore, Md. Crabs, shrimp, clams, etc. 156,571; renewed June 27, 1942.
Hecht Co., The, also doing business as Hecht Bros., and as The Hub, Washington, D. C., Baltimore, Md., and New York, N. Y. Rugs. 394,517; Apr. 7. Class 42.
Hedwig, Inc., New York, N. Y. Brassières. 394,483; Apr. 7; Serial No. 448,730; published Jan. 27, 1942. Class 39.
Hickok Manufacturing Company, Inc., Rochester, N. Y. Initials of plastic material. 394,509; Apr. 7. Class 28.
Hines, Gordon, Kansas City, Mo. Photographic, moving picture film. 394,453; Apr. 7; Serial No. 447,393; published Jan. 27. 1942. Class 26.
Hodgman Rubber Company, Framingham, Mass. Refrigerator bags. 394,488; Apr. 7; Serial No. 448,907; published Jan. 27, 1942. Class 2.
Holland American Wafer Co., Grand Rapids, Mich. Bakery products. 152,825; renewed Mar. 7, 1942.
Hooven & Allison Company, The, Xenia, Ohio. Rope and binder twine. 394,452; Apr. 7; Serial No. 447,333; published Jan. 27, 1942. Class 7.
Houbigant, Inc. (See Parfumerie Houbigant, assignor.)
Hub, The. (See Hecht Co., The.)
Hume, G. W., Company, San Francisco, Calif. Canned fish, fruits, vegetables. 157,686; renewed Aug. 15, 1942.
Hyman, L., & Sons, New York, N. Y. Paper products. 394,504; Apr. 7. Class 37.
Infilco Incorporated. (See International Filter Co., assignor.)
International Filter Co., assignor, by mesne assignments, to Infilco Incorporated, Chicago, Ill. Water-purification apparatus. 154,979; renewed May 16, 1942.
Jobber's Distributing Company. (See Torrence, Lee B.)
Jones, Samuel, & Company, Newark, N. J., assignor to McLaurin-Jones Co., Brookfield, Mass. Gummed paper. 157,992; renewed Aug. 22, 1942. Class 37.
Kamenetzky, Abraham, Brooklyn, N. Y. Furnace boilers. 394,485; Apr. 7; Serial No. 448,865; published Jan. 27, 1942. Class 34.
Kayser, Julius, & Co., New York, N. Y. Underwear, slips, and nightgowns. 394,432; Apr. 7; Serial No. 440,166; published July 1, 1941. Class 39.
Kimberly Gem Co., Inc., New York, N. Y. Zircons and articles of jewelry set or mounted with zircons. 394,460; Apr. 7; Serial No. 447,880; published Jan. 27, 1942. Class 28.
Kline, Fred J., assignor to Acco Products, Inc., Long Island City, N. Y. Paper clips. 155,995; renewed June 13, 1942.
Kline, Fred J., assignor to Acco Products, Inc., Long Island City, N. Y. Paper fasteners, covers and folders, etc. 155,996; renewed June 13, 1942.
Kline, Fred J., assignor to Acco Products, Inc., Long Island City, N. Y. Paper fasteners, paper clips, folders for binding and holding papers together, etc. 155,997; renewed June 13, 1942.
Laros Textiles Company, Bethlehem, Pa. Ladies' slips. 394,526; Apr. 7. Class 39.

Larson, Anabel, Hoquiam, Wash. Trays for holding hairpins and bobby pins. 394,492; Apr. 7; Serial No. 449,010; published Jan. 27, 1942. Class 2.
Lauter Humana Co., Newark, N. J. Pianos and player pianos. 154,992; renewed May 16, 1942.
Lawndale Wholesale Grocery Company, Chicago, Ill. Canned tomatoes. 157,703; renewed Aug. 15, 1942.
Lloyd Products Company, The, Providence, R. I. Sockets for gas filled electrically energized lamps and starters for such lamps. 394,443; Apr. 7; Serial No. 445,994; published Jan. 27, 1942. Class 21.
Lonsdale Company. (See Berkeley Company, assignor.)
Los Angeles Soap Company, Los Angeles, Calif. Soap. 152,864; renewed Mar. 7, 1942.
Los Angeles Soap Company, Los Angeles, Calif. Soap. 153,233; renewed Mar. 14, 1942.
Mabley and Carew Company, The, Cincinnati, Ohio. Men's suits, overcoats, and hats. 394,520; Apr. 7. Class 39.
Mallinson, H. R., & Co. Inc., assignor to Mallinson Fabrics Corporation, New York, N. Y. Silk piece goods. 153,490–1; renewed Mar. 21, 1942.
Massey, Louis E., Washington, D. C. Shoes. 394,433; Apr. 7; Serial No. 441,056; published Jan. 20, 1942. Class 39.
McLaurin-Jones Co. (See Jones, Samuel, & Company, assignor.)
Metallizing Company of America, Inc., Chicago, Ill. Metal spray guns and component parts thereof. 394,448; Apr. 7; Serial No. 446,886; published Jan. 27, 1942. Class 23.
Milady Brassiere & Corset Co., Inc., New York, N. Y. Girdles, corsets, foundation garments, etc. 394,502; Apr. 7. Class 39.
Milwaukee-Waukesha Brewing Company, by change of name to Fox Head Waukesha Corporation, Waukesha, Wis. Ginger ale, root beer, mineral water, and soda water. 152,886; renewed Mar. 7, 1942.
Minnesota Mining & Mfg. Co., assignor to Minnesota Mining & Manufacturing Company, Saint Paul, Minn. Abrasive paper. 155,490; renewed May 30, 1942.
Mirenta, A. C., Tacoma, Wash. Foot exercisers, nonmedicated corn pads, and toe separators. 394,503; Apr. 7. Class 44.
Mock & Judson, New York, assignor, by mesne assignments, to Mock, Judson, Voehringer Company of New York, Inc., Long Island City, N. Y. Hosiery. 158,032; renewed Aug. 22, 1942.
Moore, E. R., Company, Chicago, Ill. Gymnasium suits, play suits, choir gowns, etc. 394,508; Apr. 7. Class 39.
National Fabrics Corporation, New York, N. Y. Cotton, rayon, acetate, spun rayon and/or silk piece goods and combination thereof. 394,469; Apr. 7; Serial No. 448,226; published Jan. 20, 1942. Class 42.
Nelson, George R. (See Hasslinger, Walter.)
Northern Straw Works, Inc., Philadelphia, Pa. Ladies' hats. 394,449; Apr. 7; Serial No. 446,976; published Jan. 20, 1942. Class 39.
Oil Lift Supply Company, Greggton, Tex. Bottom hole pumps and plungers. 394,478; Apr. 7; Serial No. 448,517; published Jan. 27, 1942. Class 23.
Parfumerie Houbigant, Paris, France, assignor to Houbigant, Inc., New York, N. Y. Perfumes, toilet waters, sachets, etc. 158,052; renewed Aug. 22, 1942.
Park Laboratory Company, assignor to Park Laboratory Company, Inc., San Antonio, Tex. Salve. 158,053; renewed Aug. 22, 1942.
Peaney, J. C., Company, Wilmington, Del., and New York, N. Y. Carving sets of base metal and cutlery—namely, knives, forks, and spoons. 394,472; Apr. 7; Serial No. 448,263; published Jan. 27, 1942. Class 23.
Pierce Governor Company, Anderson, Ind. Governors of the vacuum and/or velocity operable type and spark controls for internal combustion engines. 394,458; Apr. 7; Serial No. 447,763; published Jan. 27, 1942. Class 23.
Plastic Binding Corporation, Chicago, Ill. Binder for books, booklets, pamphlets, etc. 394,499; Apr. 7. Class 37.
Proctor & Schwartz, Incorporated, Philadelphia, Pa. Electric toasters. 394,466; Apr. 7; Serial No. 448,116; published Jan. 27, 1942. Class 21.
RCA Manufacturing Company, Inc., Camden, N. J. Thermostatic electric heating system control units, apparatus and equipment for inspecting contents of bottles, electron microscopes, etc. 394,427; Apr. 7; Serial No. 433,447; published Jan. 27, 1942. Class 26.
Raybestos Company, The, Bridgeport, Conn., assignor to Raybestos-Manhattan, Inc., Passaic, N. J. Brake lining. 153,290; renewed Mar. 14, 1942.
Raylass Chain Stores, Inc., New York, N. Y. Sleeping apparel. 394,494; Apr. 7; Serial No. 449,068; published Jan. 27, 1942. Class 39.
Remar Company, The, Oakland, to The Remar Company, San Francisco, Calif. Cakes, candies, and fruit preserves. 152,965; renewed Mar. 7, 1942.
Richardson Corporation, Rochester, N. Y. Crushed and whole fruits, fruit, nut marshmallow, fudge, butterscotch and carmel toppings. 394,455; Apr. 7; Serial No. 447,490; published Jan. 27, 1942. Class 46.
Robinson-Roders Co., Inc., The, Newark, N. J., assignor, by mesne assignments, to Burton-Dixie Corporation, Chicago, Ill. Mattresses, pillows, bolsters, etc. 157,752; renewed Aug. 15, 1942.
Roditi, D., & Sons, Inc., New York, N. Y. Radio receiving sets and parts thereof. 394,447; Apr. 7; Serial No. 446,634; published Jan. 27, 1942. Class 21.
Rogol Distributors, Inc., Brooklyn, N. Y. Combination of corn oil and peanut oil blended with olive oil. 394,479; Apr. 7; Serial No. 448,525; published Jan. 20, 1942. Class 46.
Royal Bead Novelty Co., Inc., New York, N. Y. Necklaces, bracelets, and brooch pins. 394,521; Apr. 7. Class 28.
Sardamack Fisheries, Inc., Wilmington, Cal. Canned fish. 394,491; Apr. 7; Serial No. 448,956; published Jan. 20, 1942. Class 46.
Sears, Roebuck and Co., Chicago, Ill. Shoes. 394,481–2; Apr. 7; Serial Nos. 448,656–7; published Jan. 27, 1942. Class 39.
Shaw, John E., doing business as Shaw & Co., Los Angeles, Calif. Drills, bits, and reamers applicable to machine shop equipment. 394,463; Apr. 7; Serial No. 447,958; published Jan. 27, 1942. Class 23.
Sherwin-Williams Company, The, Cleveland, Ohio. Mixing sealer to be used in connection with paints and enamels. 394,510; Apr. 7. Class 16.
Shirley Silk Co., Inc., New York, N. Y. Textile fabrics in the piece, of silk, cotton, rayon and combinations thereof. 394,522; Apr. 7. Class 42.
Shoecraft, Inc., New York, N. Y. Women's, misses', and children's shoes made of leather, rubber, or fabric, etc. 394,464; Apr. 7; Serial No. 448,044; published Jan. 20, 1942. Class 39.
Shuit, W. E., Incorporated, Passaic, to W. E. Shuit, Incorporated, Clifton, N. J. Medicinal preparations. 158,299; renewed Aug. 29, 1942.
Siegel, Milton H., Baltimore, Md. Wearing apparel. 394,486; Apr. 7; Serial No. 448,877; published Jan. 27, 1942. Class 39.
Sitroux Importing Company Inc., by change of name to The Sitroux Company, Inc., New York, N. Y. Hair nets. 158,095; renewed Aug. 22, 1942.
Slifka, M., & Sons, New York, N. Y. Belts, suspenders, and garters. 394,428; Apr. 7; Serial No. 437,392; published Jan. 20, 1942. Class 39.
Smith, J. Howard, New York, N. Y. Fish meal. 394,445; Apr. 7; Serial No. 446,090; published Jan. 27, 1942. Class 46.
Smith, Robert A., doing business as Smith & Serrell, Newark, N. J. Machinery shaft couplings and parts thereof. 394,439; Apr. 7; Serial No. 444,982; published Jan. 27, 1942. Class 23.
Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Mitts for mechanical workers. 394,477; Apr. 7; Serial No. 448,480; published Jan. 20, 1942. Class 39.
Standard Medical Company. (See Davis, W. D., assignor.)
Sterling, Edna P. (See Hasslinger, Walter.)
Stern, Merritt Co. Inc., New York, N. Y. Neckties. 394,484; Apr. 7; Serial No. 448,772; published Jan. 27, 1942. Class 39.
Superb Glove Co., The, Johnstown and New York, N. Y. Gloves. 394,519; Apr. 7. Class 39.
Tabin-Pearlman Clothes, Inc., New York, N. Y. Men's suits, topcoats, shirts, etc. 394,446; Apr. 7; Serial No. 446,556; published Jan. 27, 1942. Class 39.
Titan Valve and Manufacturing Company, The, Cleveland, Ohio. Thermostatic valves for hot water heaters and the like. 394,470; Apr. 7; Serial No. 448,233; published Jan. 27, 1942. Class 26.
Topken Glove Manufacturing Corporation, New York, N. Y. Ladies' gloves. 394,512; Apr. 7. Class 39.
Torrence, Lee R., doing business as Jobber's Distributing Company, St. Louis, Mo. Automobile seat covers. 394,525; Apr. 7. Class 19.
"Turmac" Turkish-Macedonian Tobacco Co., Arnhem, Netherlands, to "Turmac" Turkish-Macedonian Tobacco Company, N. V., Amsterdam, Netherlands. Tobacco, cigars, cigarettes and snuff. 158,121; renewed Aug. 22, 1942.
Turner, Albert, Inc., New York, N. Y. Men's and boys' coats, top coats, suits, etc. 394,461; Apr. 7; Serial No. 447,898; published Jan. 27, 1942. Class 39.
Turner & Walls, to Albert H. Vandam Co., Inc., New York, N. Y., successor. Shirtings in the piece. 156,449; renewed June 20, 1942.
United American Metals Corporation, Brooklyn, N. Y. Non-ferrous metal and alloy remelters. 394,495–6; Apr. 7; Serial Nos. 449,070–71; published Jan. 27, 1942. Class 34.
Universal Crusher Company, Cedar Rapids, Iowa. Devices for crushing, screening, and loading and handling rock and similar materials, etc. 394,435–6; Apr. 7; Serial Nos. 443,440–1; published Jan. 27, 1942. Class 23.
Utica Knitting Co., Utica, N. Y. Knit underwear. 154,723; renewed Apr. 18, 1942.
Vadsco Sales Corporation. (See American Druggists Syndicate, assignor.)
Valley Paper Company, Holyoke, Mass. Writing and printing papers. 394,511; Apr. 7. Class 37.
Van Buren Chemical Company. (See Ford, Thomas G. 394,524; Apr. 7.)

Vandam, Albert H., Co., Inc. (See Turner & Walls.)
Vardaman Shoe Company, St. Louis, Mo. Shoes, leather belts, shoe soles and heels. 394,505; Apr. 7. Class 39.
Waldes & Co., Inc., assignor to Waldes Koh-I-Noor, Inc., Long Island City, N. Y. Snap fasteners. 157,789; renewed Aug. 15, 1942.
Western Auto Supply Company, Los Angeles, Calif. Razor blades. 394,493; Apr. 7; Serial No. 449,030; published Jan. 27, 1942. Class 23.
Western Electric Company, Incorporated, New York, N. Y. Electrical apparatus of the telegraphone type. 394,489; Apr. 7; Serial No. 448,928; published Jan. 27, 1942. Class 21.
Westinghouse Air Brake Company, The, Wilmerding, Pa. Fluid pressure actuated brake cylinders, fluid compressors, lubricator units, etc. 394,438; Apr. 7; Serial No. 444,112; published Jan. 27, 1942. Class 23.
Westinghouse Air Brake Company, The, Wilmerding, Pa. Pipe fittings. 394,437; Apr. 7; Serial No. 444,060; published Jan. 27, 1942. Class 13.
Whittal, M. J., Associates, Inc., Worcester, Mass. Carpets and rugs. 394,523; Apr. 7. Class 42.
Will & Baumer Candle Co., Inc., Syracuse, N. Y. Candles. 153,064–9; renewed Mar. 7, 1942.
Wilson Brothers, Chicago, Ill. Garters. 154,741; renewed Apr. 18, 1942.
Wilson, H. A., Company, The, Newark, N. J. Electrical contacts. 394,430; Apr. 7; Serial No. 438,228; published Jan. 27, 1942. Class 21.
Wolf & Dessauer Company, Fort Wayne, Ind. Topcoats, overcoats, raincoats, etc. 394,434; Apr. 7; Serial No. 442,295; published Jan. 20, 1942. Class 39.
Wood, J. R., & Sons, to J. R. Wood & Sons, Incorporated, New York, N. Y., successor. Jewelry. 155,566; renewed May 30, 1942.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 2

Bags, Refrigerator. Hodgman Rubber Company. 394,488; Apr. 7; Serial No. 448,907; published Jan. 27, 1942.
Trays for holding hairpins and bobby pins. A. Larson. 394,492; Apr. 7; Serial No. 449,010; published Jan. 27, 1942.

CLASS 4

Abrasive paper. Minnesota Mining & M'fg. Co. 155,490; May 30.
Abrasive papers and cloths. Herman Behr & Company. 157,642; renewed Aug. 15, 1942.
Detergents. T. G. Ford. 394,524; Apr. 7.
Preparation for cleaning the hands. S. J. Danjean, Sr. 152,735; renewed Mar. 7, 1942.
Soap. Los Angeles Soap Company. 152,864; renewed Mar. 7, 1942.
Soap. Los Angeles Soap Company. 153,233; renewed Mar. 14, 1942.

CLASS 6

Antiseptic mouth wash. Drug Guild, Inc. 394,442; Apr. 7; Serial No. 445,979; published Jan. 13, 1942.
Medicinal preparations. W. E. Shuit, Incorporated. 158,299; renewed Aug. 29, 1942.
Ointment. W. D. Davis. 158,421; renewed Sept. 5, 1942.
Perfumes, toilet waters, sachets, etc. Parfumerie Houbigant. 158,052; renewed Aug. 22, 1942.
Salve. Park Laboratory Company. 158,053; renewed Aug. 22, 1942.
Tonic for rheumatism. Clyde Collins Company. 150,300; renewed Jan. 3, 1942.
Tooth paste, massage cream, tooth powder, etc. American Druggists Syndicate. 156,161; renewed June 20, 1942.

CLASS 7

Rope and binder twine. Hooven & Allison Company. 394,452; Apr. 7; Serial No. 447,333; published Jan. 27, 1942.

CLASS 12

Clay, Burnt. En-Tout-Cas Company Limited. 394,444; Apr. 7; Serial No. 446,022; published Jan. 20, 1942.

CLASS 13

Metal roasters, Base. Fletcher Enamel Company. 394,501; Apr. 7.
Pipe fittings. Westinghouse Air Brake Company. 394,437; Apr. 7; Serial No. 444,060; published Jan. 27, 1942.
Venetian blinds, metal and wood tassels, brackets, etc. Guarantee Specialty Manufacturing Co. 394,475; Apr. 7; Serial No. 448,453; published Jan. 27, 1942.

CLASS 15

Candles. Will & Baumer Candle Co. 153,064–9; renewed Mar. 7, 1942.
Gasoline. Atlantic Refining Company. 394,487; Apr. 7; Serial No. 448,888; published Jan. 20, 1942.
Oil, Lubricating. Consumers Oil & Belting Company. 394,450; Apr. 7; Serial No. 447,119; published Jan. 20, 1942.

CLASS 16

Mixing sealer to be used in connection with paints and enamels. Sherwin-Williams Company. 394,510; Apr. 7.
Paint, Ready mixed. Great Lakes Varnish Works, Inc. 394,513; Apr. 7.

CLASS 17

Cigarettes and smoking tobacco. Axton-Fisher Tobacco Company. 394,476; Apr. 7; Serial No. 448,466; published Jan. 27, 1942.
Cigars. De Nobili Cigar Co. 157,923; renewed Aug. 22, 1942.
Cigars, cigarettes, and tobacco. Falk Tobacco Company. 155,959; renewed June 13, 1942.
Tobacco, cigars, cigarettes, and snuff. "Turmac" Turkish-Macedonian Tobacco Co. 158,121; renewed Aug. 22, 1942.

CLASS 19

Seat covers, Automobile. L. B. Torrence. 394,525; Apr. 7.

CLASS 21

Electric lighting fixtures, particularly fluorescent industrial fixtures. Day-Brite Lighting, Inc. 394,456; Apr. 7; Serial No. 447,557; published Jan. 27, 1942.
Electric toasters. Proctor & Schwartz, Incorporated. 394,466; Apr. 7; Serial No. 448,116; published Jan. 27, 1942.
Electrical apparatus of the telegraphone type. Western Electric Company. 394,489; Apr. 7; Serial No. 448,928; published Jan. 27, 1942.
Electrical contacts. H. A. Wilson Company. 394,430; Apr. 7; Serial No. 438,228; published Jan. 27, 1942.
Radio receiving sets and parts thereof. D. Roditi & Sons, Inc. 394,447; Apr. 7; Serial No. 446,634; published Jan. 27, 1942.
Sockets for gas filled electrically energized lamps and starters for such lamps. Lloyd Products Company. 394,443; Apr. 7; Serial No. 445,994; published Jan 27, 1942.

CLASS 23

Aprons, Leather textile. Henry K. Barnes Company. 394,490; Apr. 7; Serial No. 448,933; published Jan. 27, 1942.
Brake cylinders, fluid compressors, lubricator units, etc., Fluid pressure actuated. Westinghouse Air Brake Company. 394,438; Apr. 7; Serial No. 444,112; published Jan. 27, 1942.
Carving sets of base metal and cutlery. J. C. Penney Company. 394,472; Apr. 7; Serial No. 448,263; published Jan. 27, 1942.
Couplings and parts thereof, Machinery shaft. R. A. Smith. 394,439; Apr. 7; Serial No. 444,982; published Jan. 27, 1942.
Cultivators, plows, harrow, etc. Cleveland Tractor Company. 154,907; renewed May 16, 1942.
Devices for crushing, screening, and loading and handling rock, etc. Universal Crusher Company. 394,435–6; Apr. 7; Serial Nos. 443,440–1; published Jan. 27, 1942.
Drills, bits, and reamers. J. E. Shaw. 394,463; Apr. 7; Serial No. 447,958; published Jan. 27, 1942.
Engine units, Internal combustion. Clark Equipment Company. 394,500; Apr. 7.
Engines and fire fighting appliances, Internal combustion. Coventry Climax Engines Limited. 394,471; Apr. 7; Serial No. 448,244; published Jan. 27, 1942.
Governors and spark controls for internal combustion engines. Pierce Governor Company. 394,458; Apr. 7; Serial No. 447,763; published Jan. 27, 1942.
Pumps and plungers, Bottom hole. Oil Lift Supply Company. 394,478; Apr. 7; Serial No. 448,517; published Jan. 27, 1942.
Razor blades. Western Auto Supply Company. 394,493; Apr. 7; Serial No. 449,030; published Jan. 27, 1942.
Reamers and milling cutters. Detroit Twist Drill Co. 157,489; renewed Aug. 8, 1942.
Spray guns and component parts thereof, Metal. Metallizing Company of America, Inc. 394,448; Apr. 7; Serial No. 446,886; published Jan. 27, 1942.
Tackle blocks. J. H. Flynn, Jr. 152,401; renewed Feb. 28, 1942.
Tool, Oil well fishing. Acme Patent Development Corporation. 394,507; Apr. 7.
Typewriter carriage shift, Electric. W. T. Andrews. 394,459; Apr. 7; Serial No. 447,786; published Jan. 27, 1942.
Water-purification apparatus. International Filter Co. 154,979; renewed May 16, 1942.

CLASS 26

Film, Photographic, moving picture. G. Hines. 394,453; Apr. 7; Serial No. 447,393; published Jan. 27, 1942.

Thermostatic electric heating system control units, apparatus and equipment for inspecting contents of bottles, electron microscopes, etc. RCA Manufacturing Company. 394,427; Apr. 7; Serial No. 433,447; published Jan. 27, 1942.
Valves, Thermostatic. Titan Valve and Manufacturing Company. 394,470; Apr. 7; Serial No. 448,233; published Jan. 27, 1942.

CLASS 28

Initials of plastic material. Hickok Manufacturing Company. 394,509; Apr. 7.
Jewelry. J. R. Wood & Sons. 155,566; renewed May 30, 1942.
Necklaces, bracelets, and brooch pins. Royal Bead Novelty Co. 394,521; Apr. 7.
Zircons and articles of jewelry set or mounted with zircons. Kimberly Gem Co. 394,460; Apr. 7; Serial No. 447,880; published Jan. 27, 1942.

CLASS 32

Cribs, cradles, and nursery furniture. Gem Crib and Cradle Company. 151,772; renewed Feb. 14, 1942.
Furniture, Wooden bedroom. Camden Furniture Company. 394,497; Apr. 7; Serial No. 449,407; published Jan. 27, 1942.
Mattresses, pillows, bolsters, etc. Robinson-Roders Co. 157,752; renewed Aug. 15, 1942.

CLASS 34

Boilers, Furnace. A. Kamenetzky. 394,485; Apr. 7; Serial No. 448,865; published Jan. 27, 1942.
Non-ferrous metal and alloy remelters. United American Metals Corporation. 394,495–6; Apr. 7; Serial No. 449,070–71; published Jan. 27, 1942.

CLASS 35

Brake lining. Raybestos Company. 153,290; renewed Mar. 14, 1942.

CLASS 36

Pianos and player pianos. Lauter Humana Co. 154,992; renewed May 16, 1942.
Stringed musical instruments and parts thereof. C. Bruno & Son, Inc. 158,198; renewed Aug. 29, 1942.

CLASS 37

Binder for books, booklets, pamphlets, etc. Plastic Binding Corporation. 394,499; Apr. 7.
Gummed paper. Samuel Jones & Company. 157,992; renewed Aug. 22, 1942.
Paper clips. F. J. Kline. 155,995; renewed June 13, 1942.
Paper fasteners, covers and folders, etc. F. J. Kline. 155,996; renewed June 13, 1942.
Paper fasteners, paper clips, folders for binding and holding papers together, etc. F. J. Kline. 155,997; renewed June 13, 1942.
Paper products. L. Hyman & Sons. 394,504; Apr. 7.
Papers, writing and printing. Valley Paper Company. 394,511; Apr. 7.

CLASS 39

Apparel, Sleeping. Raylass Chain Stores, Inc. 394,494; Apr. 7; Serial No. 449,068; published Jan. 27, 1942.
Apparel, Wearing. M. H. Siegel. 394,486; Apr. 7; Serial No. 448,877; published Jan. 27, 1942.
Belts, suspenders, and garters. M. Slifka & Sons. 394,428; Apr. 7; Serial No. 437,392; published Jan. 20, 1942.
Brassières. Hedwig, Inc. 394,483; Apr. 7; Serial No. 448,730; published Jan. 27, 1942.
Clothing. Thomas Dalby Company. 157,919; renewed Aug. 22, 1942.
Coats, suits, and jackets, Women's, and ladies' and misses'. A. Davis & Sons, Inc. 394,474; Apr. 7; Serial No. 448,379; published Jan. 27, 1942.
Coats, suits, dresses, etc., Women's and misses'. Cavendish Trading Corp. 394,518; Apr. 7.
Coats, top coats, suits, etc. Albert Turner, Inc. 394,461; Apr. 7; Serial No. 447,898; published Jan. 27, 1942.
Dresses and dress ensembles. Daryl Dress Co. 394,480; Apr. 7; Serial No. 448,603; published Jan. 27, 1942.
Dresses, hats, outerskirts, etc. A. De Pinna Co. 394,465; Apr. 7; Serial No. 448,095; published Jan. 20, 1942.
Garters. Wilson Brothers. 154,741; renewed Apr. 18, 1942.
Girdles, corsets, foundation garments, etc. Milady Brassiere & Corset Co. 394,502; Apr. 7.
Gloves. Dent, Allcroft & Co. Limited. 394,426; Apr. 7; Serial No. 411,947; published Jan. 20, 1942.
Gloves. Superb Glove Co. 394,519; Apr. 7.
Gloves, Ladies'. Topken Glove Manufacturing Corporation. 394,512; Apr. 7.
Hair nets. N. B. Cohen. 157,902; renewed Aug. 22, 1942.
Hair nets. Conbro Products Co. 394,457; Apr. 7; Serial No. 447,630; published Jan. 20, 1942.
Hair nets. Sitroux Importing Company. 158,095; renewed Aug. 22, 1942.
Handkerchiefs. Acheson-Harden Co. 157,844; renewed Aug. 22, 1942.
Hats and caps. Bowman Hat Company. 394,431; Apr. 7; Serial No. 439,069; published Feb. 25, 1941.
Hats, Ladies'. Northern Straw Works, Inc. 394,449; Apr. 7; Serial No. 446,976; published Jan. 20, 1942.
Hats, Men's. Adam Hat Stores, Inc. 394,454; Apr. 7; Serial No. 447,414; published Jan. 20, 1942.
Hats, Men's felt. F. Berg & Co. 157,866; renewed Aug. 22, 1942.
Hosiery. Mock & Judson. 158,032; renewed Aug. 22, 1942.
Mitts for mechanical workers. Socony-Vacuum Oil Company. 394,477; Apr. 7; Serial No. 448,480; published Jan. 20, 1942.
Neckties. Cheney Brothers. 394,514; Apr. 7.
Neckties. Frank & Meyer Neckwear Company. 394,429; Apr. 7; Serial No. 437,764; published Jan. 14, 1941.
Neckties. Stern, Merritt Co. Inc. 394,484; Apr. 7; Serial No. 448,772; published Jan. 27, 1942.
Rugs. Hecht Co. 394,517; Apr. 7.
Shirt and trouser ensembles, overalls, pants, etc. Cowden Manufacturing Company. 394,451; Apr. 7; Serial No. 447,227; published Jan. 20, 1942.
Shoes. Endicott Johnson Corporation. 394,516; Apr. 7.
Shoes. L. E. Massey. 394,433; Apr. 7; Serial No. 441,056; published Jan. 20, 1942.
Shoes. Sears, Roebuck and Co. 394,481–2; Apr. 7; Serial Nos. 448,656–7; published Jan. 27, 1942.
Shoes, leather belts, shoe soles and heels. Vardaman Shoe Company. 394,505; Apr. 7.
Shoes made of leather and/or cloth, Children's, misses', and girls'. Chesapeake Shoe Mfg. Co. 394,467; Apr. 7; Serial No. 448,183; published Jan. 20, 1942.
Shoes, Women's, misses', and children's. Shoecraft, Inc. 394,464; Apr. 7; Serial No. 448,064; published Jan. 20, 1942.
Slips, Ladies'. Laros Textiles Company. 394,526; Apr. 7.
Suits, overcoats, and hats, Men's. Mabley and Carew Company. 394,520; Apr. 7.
Suits, play suits, choir gowns, etc., Gymnasium. E. R. Moore Company. 394,508; Apr. 7.
Suits, topcoats, shirts, etc., Men's. Tabin-Pearlman Clothes, Inc. 394,446; Apr. 7; Serial No. 446,556; published Jan. 27, 1942.
Topcoats, overcoats, raincoats, etc. Wolf & Dessauer Company. 394,434; Apr. 7; Serial No. 442,295; published Jan. 20, 1942.
Underwear, Knit. Utica Knitting Co. 154,723; renewed Apr. 18, 1942.
Underwear, slips, and nightgowns. J. Kayser & Co. 394,432; Apr. 7; Serial No. 440,166; published July 1, 1941.

CLASS 40

Comb and pin for securing hats, bows, ribbons, etc., Combined. Diadem, Inc. 394,473; Apr. 7; Serial No. 448,287; published Jan. 20, 1942.
Snap fasteners. Waldes & Co. 157,789; renewed Aug. 15, 1942.

CLASS 42

Cambrics in the piece. Berkeley Company. 157,460; renewed Aug. 8, 1942.
Carpets and rugs. M. J. Whittall Associates, Inc. 394,523; Apr. 7, 1942.
Cotton goods in the piece. American Bleached Goods Company. 156,158; renewed June 20, 1942.
Cotton piece goods. Cohn-Hall-Marx Co. 156,211; renewed June 20, 1942.
Muslin sheets and pillow cases, cotton terry towels, etc., and rayon piece goods. Gimbel Brothers, Inc. 394,515; Apr. 7.
Piece goods and combination thereof, Cotton, rayon, acetate, spun rayon and/or silk. National Fabrics Corporation. 394,469; Apr. 7; Serial No. 448,226; published Jan. 20, 1942.
Piece goods, Cotton and rayon. American Bleached Goods Company. 394,468; Apr. 7; Serial No. 448,215; published Jan. 20, 1942.
Piece goods of silk, wool, linen, etc. Bianchini, Ferier, assignor. 155,384; renewed May 30, 1942.
Shirtings in the piece. Turner & Walls. 156,449; renewed June 20, 1942.
Silk piece goods. H. R. Mallinson & Co., Inc. 153,490-1; renewed Mar. 21, 1942.
Textile fabrics in the piece, of silk, cotton, rayon and combinations thereof. Shirley Silk Co. 394,522; Apr. 7.

CLASS 44

Foot exercisers, non-medicated corn pads, and toe separators. A. C. Mirenta. 394,503; Apr. 7.
Material for making dentures, jackets, inlays, bridges, etc. Fricke & Getz Dental Mfg. Co. 394,498; Apr. 7; Serial No. 449,485; published Jan. 27, 1942.

CLASS 45

Ginger ale, root beer, mineral water, and soda water. Milwaukee-Waukesha Brewing Company. 152,886; renewed Mar. 7, 1942.
Mineral waters, non-alcoholic maltless beverages, syrups and extracts, Natural. Companhia Antarctica Paulista. 394,440; Apr. 7; Serial No. 445,133; published Jan. 13, 1942.

CLASS 46

Bakery products. Holland American Wafer Co. 152,825; renewed Mar. 7, 1942.

Cakes, candies, and fruit preserves. Remar Company. 152,965; renewed Mar. 7, 1942.
Canned fish. Sardamack Fisheries, Inc. 394,491; Apr. 7; Serial No. 448,956; published Jan. 20, 1942.
Canned fish, fruits, vegetables. G. W. Hume Company. 157,686; renewed Aug. 15, 1942.
Canned tomatoes. Lawndale Wholesale Grocery Company. 157,703; renewed Aug. 15, 1942.
Crabs, shrimp, clams, etc. Hasslinger, W. 156,571; renewed June 27, 1942.
Fish meal. J. H. Smith. 394,445; Apr. 7; Serial No. 446,090; published Jan. 27, 1942.
Flour, Wheat. Arkadelphia Milling Company. 394,462; Apr. 7; Serial No. 447,927; Jan. 27, 1942.
Food products. I. Epstein. No. 156,864; renewed July 18, 1942.
Foods. Baker Food Products Company. 154,482-4; renewed Apr. 18, 1942.
Fruits, fruit, nut, marshmallow, fudge, etc., toppings, Crushed and whole. Richardson Corporation. 394,455; Apr. 7; Serial No. 447,490; published Jan. 27, 1942.
Honey. Finger Lakes Honey Producers Co-Operative, Incorporated. No. 394,506; Apr. 7.
Oil and peanut oil blended with olive oil, Combination of corn. Rogol Distributors, Inc. 394,479; Apr. 7; Serial No. 448,525; published Jan. 20, 1942.

CLASS 48

Beers, porters and ales. Companhia Antartica Paulista. 394,441; Apr. 7; serial No. 445,135; published Jan. 13, 1942.
Mats made wholly or partly of rubber. B. F. Goodrich Company. No. 152,409; renewed Feb. 28, 1942.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 7TH DAY OF APRIL, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

American Steel and Wire Company of New Jersey, The. (See Hayden, A. P., and Gleason, assignors.)

Borglin, Joseph N., assignor to Hercules Powder Company, Wilmington, Del. Method for the separation of chemically modified rosins and their esters into components. Re. 22,057; Apr. 7.

Brace, Kemper P., South Bend, Ind., assignor, by mesne assignments, to Allin B. Crouch, Schenectady, N. Y., as trustee. Air conditioning unit. Re. 22,058; Apr. 7.

Budd Induction Heating, Inc. (See Somes, Howard E.)

Cleveland Rock Drill Company, The. (See Feucht, Albert, assignor.)

Crouch, Allin B., as trustee. (See Brace, Kemper P., assignor.)

Feucht, Albert, Garfield Heights, assignor to The Cleveland Rock Drill Company, Cleveland, Ohio. Feeding mechanism for rock drills. Re. 22,059; Apr. 7.

Gleason, George A. (See Hayden, A. P., and Gleason.)

Hayden, Albert P., and G. A. Gleason, Worcester, Mass., assignors to The American Steel and Wire Company of New Jersey. Two-purpose highway guardrail. Re. 22,060; Apr. 7.

Hercules Powder Company. (See Borglin, Joseph N., assignor.)

Johnson, Wallace D., assignor to Yates-American Machine Company, Beloit, Wis. Cutter-head quick release. Re. 22,061; Apr. 7.

Kounkel, Earl A., Seattle, Wash., assignor of one-half to Raymond Stabe, Hinton, Iowa. Truck sleeper. Re. 22,062; Apr. 7.

Royster, Percy H., Montclair, N. J. Blast furnace treatment of low grade manganese-iron ore. Re. 22,063; Apr. 7.

Somes, Howard E., Grosse Pointe Park, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Apparatus for heat treating gun bores. Re. 22,064; Apr. 7.

Stabe, Raymond. (See Kounkel, Earl A., assignor.)

Stoner-Mudge, Inc. (See Young, George H., assignor.)

Yates-American Machinery Company. (See Johnson, Wallace D., assignor.)

Young, George H., Pittsburgh, Pa., assignor to Stoner-Mudge, Inc. Anode. Re. 22,065; Apr. 7.

LIST OF DESIGN PATENTEES

Atkins, Thomas R., New York, N. Y. Slipper. 131,932; Apr. 7.

Bartholomew, Orlo A., Northfield, N. J. Aircraft carrier. 131,909; Apr. 7.

Baumgartner, Apollinaris, New York, N. Y. Liturgical orphray or similar article. 131,910; Apr. 7.

Baumgartner, Apollinaris, New York, N. Y. Liturgical orphrey or similar article. 131,911; Apr. 7.

Baumgartner, Apollinaris, New York, N. Y. Liturgical orphrey or similar article. 131,912; Apr. 7.

Baumgartner, Apollinaris, New York, N. Y. Liturgical orphrey or similar article. 131,913; Apr. 7.

Beltramini, Charles, New York, N. Y. Textile fabric. 131,914; Apr. 7.

Berger, Arthur M., New York, N. Y. Uniform. 131,980; Apr. 7.

Biller, David J., assignor to Day-Brite Lighting, Inc., St. Louis, Mo. End cap for a fluorescent lighting fixture. 131,944; Apr. 7.

Biller, David J., assignor to Day-Brite Lighting, Inc., St. Louis, Mo. End cap for a fluorescent lighting fixture. 131,950; Apr. 7.

Biller, David J., assignor to Day-Brite Lighting, Inc., St. Louis, Mo. End cap for a fluorescent lighting fixture. 131,951; Apr. 7.

Bolenbach, Duff, Los Angeles, Calif. Trailer. 131,952; Apr. 7.

Boosey, Edward W. N., Detroit, Mich. Device for preventing sewage back flow into a liquid container of a water supply system. 131,953; Apr. 7.

Boye Needle Company, The. (See Davis, Edward D., assignor.)

Brooke, Smith, French & Dorrance, Inc. (See Williams, Jack G., assignor.)

Brunswick-Balke-Collender Company, The. (See Cloutier, Ellery J., assignor.)

Cann, Milton M., Brooklyn, N. Y. Textile fabric or similar article. 131,915; Apr. 7.

Cann, Milton M., Brooklyn, N. Y. Textile fabric or similar article. 131,916; Apr. 7.

Cann, Milton M., Brooklyn, N. Y. Textile fabric or similar article. 131,917; Apr. 7.

Cann, Milton M., Brooklyn, N. Y. Textile fabric or similar article. 131,918; Apr. 7.

Cann, Milton M., Brooklyn, N. Y. Textile fabric or similar article. 131,919; Apr. 7.

Cann, Milton M., Brooklyn, N. Y. Textile fabric or similar article. 131,920; Apr. 7.

Caron, Alexander, New York, N. Y. Dress. 131,981; Apr. 7.

Caron, Alexander, New York, N. Y. Dress. 131,982; Apr. 7.

Caron, Alexander, New York, N. Y. Dress. 131,983; Apr. 7.

Caron, Alexander, New York, N. Y. Dress. 131,984; Apr. 7.

Cashin, Bonnie, New York, N. Y. Dress. 131,985; Apr. 7.

Cashin, Bonnie, New York, N. Y. Dress. 131,986; Apr. 7.

Cashin, Bonnie, New York, N. Y. Dress. 131,987; Apr. 7.

Cashin, Bonnie, New York, N. Y. Dress. 131,988; Apr. 7.

Cashin, Bonnie, New York, N. Y. Coat. 131,989; Apr. 7.

Cashin, Bonnie, New York, N. Y. Dress. 131,990; Apr. 7.

Cloutier, Ellery J., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Score table. 131,898; Apr. 7.

Cloutier, Ellery J., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Bowling alley service unit or similar article. 131,899; Apr. 7.

Cohn & Rosenberger, Inc. (See Katz, Adolph, assignor.)

Cohn & Rosenberger, Inc. (See Verrecchio, Gene, assignor.)

Corbett, Joseph R., Sharonville, Ohio, assignor to Nu Tone Chimes, Inc., New York, N. Y. Portable bar. 131,957; Apr. 7.

Crowley, Daniel J., Grosse Pointe, Mich. Combined lamp and radio receiving set. 131,954; Apr. 7.

Davis, Edward D., assignor to The Boye Needle Company, Chicago, Ill. Display cabinet for crochet hooks or the like. 131,958; Apr. 7.

Day-Brite Lighting, Inc. (See Biller, David J., assignor.)

Dey, John B., Lynchburg, Va. Display board or the like. 131,933; Apr. 7.

Elmo, Sadie, New York, N. Y. Dress. 131,991; Apr. 7.

Elmore, Neal, New York, N. Y. Shoe. 131,934; Apr. 7.

Fagan, Joseph S., Inglewood, Calif. Plumber's furnace. 131,935; Apr. 7.

Fields, Minna, New York, N. Y. Dress. 131,992; Apr. 7.

Fields, Minna, New York, N. Y. Dress. 131,993; Apr. 7.

Fields, Minna, New York, N. Y. Dress. 131,994; Apr. 7.

Freemark, Michael J., Breckenridge, Minn. Lantern. 131,926; Apr. 7.

Gambardella, Vincent, West Haven, Conn. Pin or similar article. 131,945; Apr. 7.

Hale, Eugene H., Dayton, Ohio. Confection. 131,946; Apr. 7.

Hammer, Isadore, New York, N. Y. Dress ensemble. 131,995; Apr. 7.

Heims, Lillian, New York, N. Y. Dress ensemble. 131,996; Apr. 7.

Hobé, William, W., New York, N. Y. Brooch pin or Similar article. 131,930; Apr. 7.

Hobé, William, W., New York, N. Y. Brooch pin or similar article. 131,931; Apr. 7.

Hobé, William, W., New York, N. Y. Brooch pin or similar article. 131,967; Apr. 7.

Hobé, William, W., New York, N. Y. Brooch pin or similar article. 131,968; Apr. 7.

Hubbell, Allan C., Long Beach, Calif. Portable reflector signal. 131,927; Apr. 7.

Junge, Ruth, assignor to Orchard Paper Company, St. Louis, Mo. Wrapping paper or similar article. 131,921; Apr. 7.

Katz, Adolph, assignor to Cohn & Rosenberger, Inc., New York, N. Y. Brooch or similar article. 131,959; Apr. 7.

Katz, Adolph, assignor to Cohn & Rosenberger, Inc., New York, N. Y. Brooch or similar article. 131,960; Apr. 7.
Katz, Adolph, assignor to Cohn & Rosenberger, Inc., New York, N. Y. Brooch or similar article. 131,969; Apr. 7.
Katz, Adolph, assignor to Cohn & Rosenberger, Inc., New York, N. Y. Brooch or similar article. 131,970; Apr. 7.
Katz, Adolph, assignor to Cohn & Rosenberger, Inc., New York, N. Y. Earring. 131,971; Apr. 7.
Katz, Adolph, assignor to Cohn & Rosenberger, Inc., New York, N. Y. Brooch or similar article. 131,972; Apr. 7.
Kennedy, John F., assignor of one-half to Joseph H. Comtois, Cleveland, Ohio. Badge or similar article. 131,947; Apr. 7.
Kessler, Betty, New York, N. Y. Dress. 131,997; Apr. 7.
Kessler, Betty, New York, N. Y. Dress. 131,998; Apr. 7.
Koenig, Robert, Hasbrouck Heights, N. J. Embroidered lace trimming or similar article. 131,999; Apr. 7.
Kosikar, Mary, Toronto, Ontario, Canada. Hair ornament or similar article. 131,936; Apr. 7.
Lehmann, Adolph, New York, N. Y. Embroidered textile fabric. 131,937; Apr. 7.
Loewy, Raymond F., New York, N. Y., assignor to Schick Incorporated. Stamford, Conn. Electric shaver. 131,928; Apr. 7.
Maidman, William, New York, N. Y. Dress. 132,000; Apr. 7.
McKee Glass Company. (See Poglein, Louis, assignor.)
Miller, Joseph, New York, N. Y. Perfume display case. 131,977; Apr. 7.
Murphy, Lawrence J., Brooklyn, N. Y. Altar. 131,900; Apr. 7.
Nelson, Amanda, Kalispell, Mont. Slip or similar article of wearing apparel. 131,928; Apr. 7.
Nu Tone Chimes, Inc. (See Corbett, Joseph R., assignor.)
Oppenheim, Stanley J., New York, N. Y. Table scarf or similar article. 131,922; Apr. 7.
Oppenheim, Stanley J., New York, N. Y. Table scarf or similar article. 131,923; Apr. 7.
Orchard Paper Company. (See Junge, Ruth, assignor.)
Philippe, Alfred, New York, N. Y. Pin clip. 131,961; Apr. 7.
Philippe, Alfred, New York, N. Y. Pin clip. 131,962; Apr. 7.
Philippe, Alfred, New York, N. Y. Brooch or similar article. 131,963; Apr. 7.
Philippe, Alfred, New York, N. Y. Pin clip. 131,964; Apr. 7.
Philippe, Alfred, New York, N. Y. Pin clip. 131,973; Apr. 7.
Philippe, Alfred, New York, N. Y. Earring. 131,974; Apr. 7.
Philippe, Alfred, New York, N. Y. Brooch or similar article. 131,975; Apr. 7.
Philippe, Alfred, New York, N. Y. Pin clip. 132,001; Apr. 7.
Phillips, Joseph H., Philadelphia, Pa. Toy swing. 131,901; Apr. 7.
Poglein, Louis, assignor to McKee Glass Company, Jeannette, Pa. Combination glass dish, cover and base. 131,965; Apr. 7.
Reciprocating Razors Corporation. (See Van Slyke, Victor T., assignor.)
Riesenberg, Samuel, New York, N. Y. Dress ensemble. 132,002; Apr. 7.
Robinson, Charles A., Los Angeles, Calif. Barbecue table. 131,939; Apr. 7.
Roskin, Israel, New York, N. Y. Gem setting or similar article. 131,902; Apr. 7.
Roskin, Israel, New York, N. Y. Gem setting or similar article. 131,903; Apr. 7.
Roskin, Israel, New York, N. Y. Gem setting or similar article. 131,904; Apr. 7.
Roskin, Israel, New York, N. Y. Gem setting or similar article. 131,905; Apr. 7.
Roskin, Israel, New York, N. Y. Gem setting or similar article. 131,906; Apr. 7.
Ruchman, Albert, New York, N. Y. Dress. 132,003; Apr. 7.
Rudolph, Maxwell A., New York, N. Y. Dress. 132,004; Apr. 7.
Sachs, Irving, New York, N. Y. Dress. 132,005; Apr. 7.
Sarvis, Horace A., Lansing, Mich. Display rack. 131,907; Apr. 7.
Schick Incorporated. (See Loewy, Raymond F., assignor.)
Schwartz, Andrew, Providence, R. I. Finger ring or similar article. 131,948; Apr. 7.
Servel, Inc. (See Stangle, William H., assignor.)
Shotland, Abraham, New York, N. Y. Suit. 132,006; Apr. 7.
Siegel, Jacob, New York, N. Y. Dress ensemble. 132,007; Apr. 7.
Silverman, Jacob Z., Brooklyn, N. Y. Shower curtain hook. 131,978; Apr. 7.
Silverman, Jacob Z., Brooklyn, N. Y. Shower curtain hook. 131,979; Apr. 7.
Spaney, Alfred, New York, N. Y. Brooch or similar article. 131,966; Apr. 7.
Stangle, William H., Evansville, Ind., assignor to Servel, Inc. Water heater. 131,955; Apr. 7.
Teunisz, William C., Grand Rapids, Mich. Milk bottle. 131,949; Apr. 7.
Thee, Walter C., United States Army. Blackout unit for headlight lenses. 131,929; Apr. 7.
Thompson, Martin W., Hammond, Ind. Casing for flushing apparatus. 131,956; Apr. 7.
Tishock, Evan T., Cleveland, Ohio. Textile fabric or similar article. 131,925; Apr. 7.
Van Slyke, Victor T., assignor to Reciprocating Razors Corporation, Philadelphia, Pa. Handle for safety razors. 131,940; Apr. 7.
Van Slyke, Victor T., assignor to Reciprocating Razors Corporation, Philadelphia, Pa. Roller for reciprocating razors. 131,941; Apr. 7.
Verrecchio, Gene, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y. Separable brooch. 131,976; Apr. 7.
Vike, Oscar, Vernonia, Oreg. Receptacle for sadirons. 131,942; Apr. 7.
Weiss, Leo L., New York, N. Y. Stuffed doll or similar article. 131,943; Apr. 7.
Williams, Jack G., assignor to Brooke, Smith, French & Dorrance, Inc., Detroit, Mich. Condiment shaker or the like. 131,924; Apr. 7.
Woodruff, D. Bryce, Sonora, Calif. Holder for condiment shakers or the like. 131,908; Apr. 7.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 7TH DAY OF APRIL, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aanerud, Louis, et al. (See Fernstrom, Charles, assignor.)
Abraham, Clarence F. (See Kozak, J. L., and Abraham.)
Adams, Lester V., Schenectady, N. Y., assignor to General Electric Company. Calorized metal and method for producing the same. 2,279,268; Apr. 7.
Adler, Joseph L., assignor to F. M. Kannenstine, Houston, Tex. Method and apparatus for seismic surveying. 2,279,191; Apr. 7.
Adolph, Gustav, Solln, Germany, and M. E. Bretschger, assignors to Buffalo Electro-Chemical Company, Inc., Buffalo, N. Y. Method of manufacturing hydrogen peroxide. 2,278,605; Apr. 7.
Air Associates Incorporated. (See Caminez, Harold, assignor.)
Air Reduction Company. (See Anderson, James L., assignor.)
Aktiengesellschaft Brown, Boveri & Cie. (See Meyerhans, August, assignor.)
Alexander, Emmett L., and A. W. Braithwaite, assignors to The George E. Failing Supply Company, Enid, Okla. Transmission mounting for drilling rigs. 2,278,606; Apr. 7.
Alexander, Henry L., Wilmington, H. I. du Pont, Rockland, Del., and W. B. Foulke, Media, Pa., assignors to Delaware Chemical Engineering and Development Company, Wilmington, Del. Liquid storage and handling system. 2,278,906; Apr. 7.
Allen, Joseph W., East Orange, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Electromagnetic mechanism. 2,278,967; Apr. 7.
Allen, Robert C., Wauwatosa, and J. Wilson, West Allis, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Turbine blading. 2,279,258; Apr. 7.
Allis-Chalmers Manufacturing Company. (See Allen, R. C., and Wilson, assignors.)
Alriq, Hubert J. F., Paris, France, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa. High tension dry contact rectifier apparatus. 2,279,101; Apr. 7.
Altemus, James D. (See Hurley, Lon G., assignor.)
Altemus, James D., Roslyn, N. Y. Electric razor. 2,279,102; Apr. 7.
Aluminum Company of America. (See Slunder, Charles J., assignor.)
Alvey-Ferguson Company, The. (See Schenk, Adelbert J., assignor.)
American Car and Foundry Company. (See Kepner, Robert C., assignor.)
American Car and Foundry Company. (See Kuhl, Robert J., assignor.)
American Car and Foundry Company. (See Pancake, Herman H., assignor.)
American Car and Foundry Company. (See Preston, George L., assignor.)
American District Telegraph Company. (See Evans, F. C., and Donelian, assignors.)
American District Telegraph Company. (See Lindsay, M. H. A., and Pearson, assignors.)
American District Telegraph Company. (See Muehter, Manfred W., assignor.)
American Laundry Machinery Company, The. (See Williams, Jewel B., assignor.)
American Locomotive Company. (See Nichols, William M., assignor.)
American Machine and Metals, Inc. (See Chayle, Oliver J., assignor.)
American Optical Company. (See Tillyer, Edgar D., assignor.)
American Optical Company. (See Tillyer, E. D., Moulton, and Gunn, assignors.)
American Seal-Kap Corporation of Delaware. (See Goodwin, Carl W., assignor.)
American Seating Company. (See Todd, Edwin T., assignor.)
American Swiss Company, The. (See Rightmyer, Holden T., assignor.)
American Telephone and Telegraph Company. (See Bagnall, Vernon B., assignor.)
American Telephone and Telegraph Company. (See Clarke, John L., assignor.)
American Telephone and Telegraph Company. (See Knittle, Gale L., assignor.)
American Viscose Corporation. (See Lodge, Alvin, assignor.)
Amman, Ernst. (See Hinnuber, J., and Ammann.)
Anderson, James L., Closter, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Universal torch machine. 2,278,607; Apr. 7.
Anderson, James T. (See Scott, W. J., and Anderson.)
Anderson, Perry, Wauwatosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Automatic arc welding head. 2,278,968; Apr. 7.
Anderson, Perry, Wauwatosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Welding head protective device. 2,278,969; Apr. 7.
Anderson, Walter A., Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Paper carriage for accounting machines. 2,278,820; Apr. 7.
Anderson, William B., West Springfield, and E. E. Grover, Springfield, Mass., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigerating apparatus. 2,279,272; Apr. 7.
Anholtt, Anders P. (See Glern, J. B., and Anholtt.)
Anklam, Charles W., assignor to C. M. Hall Lamp Company, Detroit, Mich. Lamp unit. 2,279,103; Apr. 7.
Anthes, Eugen, W. v. Fuener, and W. Simon, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Thermal treatment of carbonaceous materials. 2,278,407; Apr. 7.
Anthonisen, Robert C. (See Collings, W. R., Freeman, and Anthonisen.)
Arendt, Beach F., Park Ridge, assignor to United States Gypsum Company, Chicago, Ill. Plasterboard reinforcement. 2,278,758; Apr. 7.
Armbruster, John W., East Rockaway, assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Graph printing tabulator. 2,278,409; Apr. 7.
Arnold, Harold W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Interpolymers of unsymmetrical dichloroethylene. 2,278,415; Apr. 7.
Arola, Ilmari E., Worcester, Mass. Valve operating mechanism. 2,278,963; Apr. 7.
Arp, Ewald A., assignor to Tobin-Arp Manufacturing Company, Minneapolis, Minn. Boring machine with attachments. 2,278,759; Apr. 7.
Asbury, Willard C., and F. H. Garner, London, England, assignors to Standard Oil Development Company. Bituminous emulsion. 2,278,684; Apr. 7.
Ashbaugh, John H., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Liquid congealing apparatus. 2,278,408; Apr. 7.
Atlantic Research Associates, Inc. (See Atwood, Francis C., assignor.)
Atlas Scraper and Engineering Co. (See Berner, L., and Ogle, assignors.)
Atti, Raphael, Cliffside Park, N. J. Golf ball testing machine. 2,278,416; Apr. 7.
Atwood, Francis C., Newton, assignor to Atlantic Research Associates, Inc., Newtonville, Mass. Mica containing pigment and method of making the same. 2,278,970; Apr. 7.
Austin, Bascum O., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Motor control system. 2,278,608; Apr. 7.
Auto Research Corporation. (See Kocher, Edward H., assignor.)
Automatic Telephone & Electric Company Limited. (See Roseby, Philip N., assignor.)
Automatic Winding Company. (See Thomas, Leslie G., assignor.)
Automotive Engineering Company Limited. (See White, P., Dennis, and Nicolle, assignors.)
Aviation Patents, Inc. (See Davidson, Chester L., assignor.)
Badertscher, Darwin E., R. H. Williams, and H. G. Berger, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Mineral oil composition and improving agent therefor. 2,279,218; Apr. 7.
Badgley, Robert H., Morris Plains, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Gas tube. 2,278,964; Apr. 7.
Baer, Walter O., Milwaukee, and E. W. Seeger, Wauwatosa, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Generator control system. 2,278,632; Apr. 7.
Bagnall, Vernon B., West Orange, N. J., assignor to American Telephone and Telegraph Company. Temperature control apparatus. 2,278,633; Apr. 7.
Bailey Meter Company. (See Luhrs, John F., assignor.)
Baker, Abner D., and L. R. Baker, Swanton, Ohio. Material grinding machine. 2,279,219; Apr. 7.
Baker Caster Oil Company, The. (See Colbeth, Ivor M., assignor.)

Baker, Louis R. (See Baker, Abner D., and L. R.)
Baker, Marlin S., assignor to The Parker Pen Company, Janesville, Wis. Fountain pen. 2,278,907; Apr. 7.
Baldwin, Alfred W., J. G. Evans and C. B. Salkeld, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Treatment of cellulosic material. 2,278,417; Apr. 7.
Baldwin, A. W., J. G. Evans and C. B. Salkeld, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Treatment of cellulosic material. 2,278,418; Apr. 7.
Ballou, B. A., & Co. (See Ballou, Frederick A., Jr., assignor.)
Ballou, B. A., & Co., Inc. (See Morehouse, Eugene, assignor.)
Ballou, Frederick A., Jr., Providence, R. I., assignor to B. A. Ballou & Co., Inc. Button. 2,279,259; Apr. 7.
Baret, Albert. (See Schuermans, M., and Baret.)
Barks, Frank S., St. Louis, L. C. Rotter, Maplewood, and V. G. Klein, assignors to Lincoln Engineering Company, St. Louis, Mo. Reel. 2,279,156; Apr. 7.
Barnard, Henry H., Washington, D. C. Drawing and observing device. 2,278,685; Apr. 7.
Barnes, Carl E., Worcester, Mass., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Copolymerized substance comprising a formyl group. 2,278,528; Apr. 7.
Barnes, Carl E., Worcester, Mass., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Resins comprising the acrylic and methacrylic acid esters of the hydroxybiphenyls. 2,278,634; Apr. 7.
Barnes, Carl E., Worcester, Mass, assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Resin comprising copolymers of divinyl ketone and di-isopropenyl ketone. 2,278,635; Apr. 7.
Barnes, Carl E., Worcester, Mass., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Resin of interpolymerized substances comprising acrylic or methacrylic anhydride. 2,278,636; Apr. 7.
Barnes, Carl E., Worcester, Mass., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Resin of interpolymerized substances comprising acrylic or methacrylic anhydride. 2,278,637; Apr. 7.
Barnes, Carl E., Worcester, Mass., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Furyl vinyl ketone and homologues. 2,278,638; Apr. 7.
Barnhart, George E., Pasadena, Calif. Thermal energy responsive indicating device. 2,278,908; Apr. 7.
Bascom, Henry M., Brooklyn, L. J. Bowne, Howard Beach, N. Y., and N. Y. Priessman, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,278,410; Apr. 7.
Basic Refractories, Incorporated. (See Lee, Harley C., assignor.)
Bauberger, Charles W., and E. T. Liess, Malverne, N. Y. Clutch plate adjuster. 2,278,639; Apr. 7.
Baudry, René A., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electromagnetic coupling. 2,278,507; Apr. 7.
Baum, Donald H., Ridgewood, assignor to Westinghouse Electric Elevator Company, Jersey City, N. J. Floor selector for elevators. 2,279,220; Apr. 7.
Baumann, Henry N., Jr. (See Benner, R. C., Baumann, and Easter.)
Baumker, William H., assignor, by mesne assignments, to The Hettrick Manufacturing Company, Toledo, Ohio. Seat post mounting. 2,278,760; Apr. 7.
Bay West Paper Company. (See Engel, John B., assignor.)
Beasley, French and Company Limited. (See French, Gordon W., assignor.)
Becker, Fred. (See Smith, J. A. B., and Becker.)
Beder, Samuel, New York, N. Y. Cabinet for phonograph records. 2,278,529; Apr. 7.
Behringer, Emil, Richmond Hill, N. Y., and M. R. Harrison, Maplewood, assignor to E. Behringer Sheet Metal Works, Inc., Newark, N. J. Form for casting reflecting face curb. 2,279,104; Apr. 7.
Behringer, E., Sheet Metal Works, Inc. (See Behringer, E., and Harrison, assignors.)
Bell Aircraft Corporation. (See Herget, Marvin C., assignor.)
Bell, Joseph D., San Francisco, Calif. Divan bed. 2,279,286; Apr. 7.
Bell Telephone Laboratories, Incorporated. (See Badgley, Robert H., assignor.)
Bell Telephone Laboratories, Incorporated. (See Bascom, H. M., Bowne, and Priessman, assignors.)
Bell Telephone Laboratories, Incorporated. (See Friend, Otto A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Hopper, Andrew L., assignor.)
Bell Telephone Laboratories, Incorporated. (See Hoyt, Frederick A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Melhose, A. E., Tuthill, assignors.)
Bell Telephone Laboratories, Incorporated. (See Oliver, Bernard M., assignor.)
Bell Telephone Laboratories, Incorporated. (See West, John W., assignor.)
Bell Telephone Laboratories, Incorporated. (See Wingardner, Charles A., assignor.)
Benbow, Burtis W., Benbow, Calif. Traveling electrical contactor. 2,278,761; Apr. 7.
Bendix Aviation Corporation. (See Allen, Joseph W., assignor.)
Bendex Aviation Corporation. (See Boettinger, William G., assignor.)
Bendix Aviation Corporation. (See MacNeil, Charles I., assignor.)
Bendix Aviation Corporation. (See Nardone, Romeo M., assignor.)
Bendix Aviation Corporation. (See Oliver, Wilbur C., II., assignor.)
Benner, Raymond C., H. N. Baumann, Jr., and G. J. Easter, assignors to The Carborundum Company, Niagara Falls, N. Y. Refractory and abrasive material and making same. 2,279,260; Apr. 7.
Bennet, Carl W. H. D. and A. J. E. Rylander, Stockholm, assignors to L. G. V. Bennet, Runeborg, Stocksund, Sweden. Fluid engine. 2,278,821; Apr. 7.
Bennet, Louise G. V. (See Bennet, C. W. H. D., and Rylander, assignors.)
Benz, Leonhardt W., Mobile, Ala. Furring for mounting wallboard. 2,278,822; Apr. 7.
Berge, Joseph, East Orange, N. J., assignor to Jaeger Watch Company, Inc., New York, N. Y. Propeller and deicing means therefor. 2,278,640; Apr. 7.
Bergen, Daniel E., Phillips, Tex., assignor to Phillips Petroleum Company. Lubricant. 2,278,762; Apr. 7.
Berger, Henry G. (See Badertscher, D. E., Williams and Berger.)
Bergstrom, Roland F., Oakland, assignor to Shell Development Company, San Francisco, Calif. Compounded lubricating oil. 2,279,086; Apr. 7.
Berner, Leo, Huntington Park, and C. B. Ogle, Los Angeles, assignors to Atlas Scraper and Engineering Co., Bell, Calif. Back dump mechanism. 2,278,503; Apr. 7.
Bertness, Theodore A., Whittier, N. Johnston, Alhambra, and D. O. Newton, La Habra Heights, Calif., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Method of removing mud barrier from oil wells. 2,278,909; Apr. 7.
Bertran, Edward M., Flushing, assignor to Brewster Aeronautical Corporation, Long Island City, N. Y. Airplane gear. 2,278,910; Apr. 7.
Bilde, Tord E. D., Ulvsunda, assignor to Bolinder's Fabriks Aktiebolag, Stockholm, Sweden. Dishwashing machine. 2,278,823; Apr. 7.
Birchall, Joseph C., Reading, assignor, by direct and mesne assignments, of thirty-seven and one-half percent to F. H. McAdams, Revere, twenty-nine and one-sixth percent to J. B. Neal, Allston, and thirty-three and one-third percent to E. E. Kent, Newton, Mass., as trustees. Separator for bottled milk and cream. 2,279,273; Apr. 7.
Bishop, Morris E. (See Swesey, F. H., Bishop, and Hoffman.)
Black, Willy, Berlin-Halensee, Germany, assignor to General Electric Company. Hydraulic vehicle power transmission. 2,279,019; Apr. 7.
Blackburn, Ernest L., Audubon, N. J., assignor to Korb-Pettit Wire Fabrics & Iron Works, Inc., Philadelphia, Pa. Flanged wire fabric. 2,278,859; Apr. 7.
Blackburn, Ernest L., Audubon, N. J., assignor to Korb-Pettit Wire Fabrics & Iron Works, Inc., Philadelphia, Pa. Flanged wire fabric. 2,278,860; Apr. 7.
Blackburn, George F. (See Peters, Melville F., and Blackburn.)
Blanchfield, Paul E. (See Dickson, J. B., Stafford and Blanchfield.)
Blankenbuehler, John H., Edgewood, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Indicating device. 2,279,157; Apr. 7.
Blood, Harold L., assignor to The Heald Machine Company, Worcester, Mass. Off-setting arrangement for boring tools and the like. 2,279,221; Apr. 7.
Bluemle, Arnold A., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Master brake cylinder and switch unit. 2,278,579; Apr. 7.
Boehne, Eugene W., Drexel Hill, Pa., assignor to General Electric Company. Electromagnetic apparatus. 2,278,971; Apr. 7.
Boettinger, William G., Baltimore, Md., assignor to Bendix Aviation Corporation, South Bend, Ind. Temperature compensating means for instruments. 2,279,105; Apr. 7.
Bohan, Patrick J., Sailor Springs, assignor of one-fourth to G. R. Easley, Clay City, and one-fourth to R. L. Koyner, Sailor Springs, Ill. Anti-aircraft gun. 2,279,087; Apr. 7.
Bokenkamp, Carl. (See Egli, A. A., and Bokenkamp.)
Bolinder's Fabriks Aktiebolag. (See Bilde, Tord E. D., assignor.)
Bond, Donald S., Philadelphia, Pa., assignor to Radio Corporation of America. Electronic commutator. 2,278,641; Apr. 7.
Bonsall, Charles D., Pittsburgh, Pa., assignor to Standard Railway Devices Company. Refrigerator car. 2,278,763; Apr. 7.
Borden Company, The. (See Sparre, Trygve, assignor.)

Borg-Warner Corporation. (See Orr, Palmer, assignor.)
Borsari Tank Corporation of America. (See Schorer, Herman, assignor.)
Bosch, Robert, Gesellschaft mit beschrankter Haftung. (See Straub, Karl, assignor.)
Bosee Company, Limited. (See Roessler, Amandus C., assignor.)
Boucher, Louis E., Montpelier, Vt. Lighting equipment for cigarettes and the like. 2,278,642. Apr. 7.
Bowman, Virginia, New York, N. Y. Bathing suit. 2,279,222; Apr. 7.
Boyle, Robert S., Akron, Ohio. Rubber forming method and apparatus. 2,278,764; Apr. 7.
Boynton, Alexander, San Antonio, Tex. Wrench. 2,278,419; Apr. 7.
Boynton, Alexander, San Antonio, Tex. Weight actuated flowing device. 2,278,420; Apr. 7.
Bracke, Robert F. (See Spohr, C. W., and Bracke.)
Braendel, Felix W., assignor to Groov-Pin Corporation, Union City, N. J. Screw. 2,278,411; Apr. 7.
Brailsford, Joseph D. (See Rust, N. M., Brailsford, and Goodenough.)
Braithwaite, Albert W. (See Alexander, E. L., and Braithwaite.)
Brandt, David G., Westfield, N. J., assignor to Cities Service Oil Company, New York, N. Y. Pipe still furnace structure. 2,279,192; Apr. 7.
Branting, Briant F., Petersburg, Va., assignor to The Solvay Process Company, New York, N. Y. Manipulation of acetic acid. 2,278,765; Apr. 7.
Bratring, Kurt, Dahlem, Berlin, Germany, assignor, by mesne assignments, to Neocell Products Corporation. Method of producing waterproof films and hollow bodies. 2,278,609; Apr. 7.
Braun, Frederick W., Dearborn, assignor to General Motors Corporation, Detroit, Mich. Press unloader. 2,278,643; Apr. 7.
Brearley Company, The. (See Sutton, John C., assignor.)
Breckenridge, Frank, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Washing apparatus. 2,278,911; Apr. 7.
Bretschger, Max E. (See Adolph, G., and Bretschger, assignors.)
Brewster Aeronautical Corporation. (See Bertran, Edward M., assignor.)
Brillo Manufacturing Company. (See Field, Crosby, assignor.)
British American Oil Company, The. (See Irwin, Roy E., assignor.)
Brizzolara, Robert T., New Dorp, N. Y., assignor to B. F. Sturtevant Company, Boston, Mass. Air conditioning apparatus. 2,278,766; Apr. 7.
Brophy, Walter T., Libby, Mont. Coffee roaster. 2,278,767; Apr. 7.
Brotman, Hyman D., Detroit, Mich. Laundry machine. 2,278,824; Apr. 7.
Brown, Clyde A., assignor to The Dole Valve Company, Chicago, Ill. Valve device. 2,278,421; Apr. 7.
Brown, Clyde A., assignor to The Dole Valve Company, Chicago, Ill. Thermostatic valve device. 2,278,422; Apr. 7.
Brown, George H., Haddonfield, and J. Epstein, Westmont, N. J., assignors to Radio Corporation of America. Radio frequency wattmeter. 2,278,686; Apr. 7.
Brown, George H., Haddonfield, N. J., assignor to Radio Corporation of America. Radio frequency wattmeter. 2,278,687; Apr. 7.
Brown, Guy I., Modesto, Calif. Animal feed. 2,279,106; Apr. 7.
Brown, Robinson W. (See Fortune, J. C., and Brown.)
Brown, Will K., assignor to Standard Oil Company, Chicago, Ill. Catalyst regeneration. 2,278,509; Apr. 7.
Brownback, Ellington S., Royersford, Pa. Water gauge protection and illumination. 2,278,825; Apr. 7.
Brownson, Percy, and H. A. Keely, Hastings, Minn. Bundle picker. 2,278,610; Apr. 7.
Bruce, Malcolm, Plymouth, Mass. Radio antenna system. 2,279,130; Apr. 7.
Brun, Willi, Bridgeport, Conn., assignor to Remington Arms Company, Inc. Ammunition. 2,278,530; Apr. 7.
Buchanan, Lloyd W., Lima, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Ping-reversing capacitor-start induction-run motor. 2,279,223; Apr. 7.
Buckey, Thaddeus J., St. Louis, Mo. Die. 2,279,131; Apr. 7.
Budd, Edward G., Manufacturing Co. (See Hoell, George S., assignor.)
Buell Manufacturing Company. (See Simmons, Oliver H., assignor.)
Brush Development Company, The. (See Williams, Alfred L. W., assignor.)
Büchner, Karl, Duisburg-Hamborn, Germany, assignor, by mesne assignments, to Hydrocarbon Synthesis Corporation, Linden, N. J. Process for the regeneration of catalysts containing thorium. 2,278,644; Apr. 7.
Buckeye Traction Ditcher Company, The. (See Corbett, J. M., and Magee, assignors.)
Buckeye Traction Ditcher Company, The. (See Hollmann, Hubert, assignor.)
Buckingham, William D. (See Homer, E. C., and Buckingham.)
Buffalo Electro-Chemical Company. (See Adolph, G., and Bretschger, assignors.)
Burke, Myles J., Jersey City, N. J. Exercising horse. 2,278,861; Apr. 7.
Burling, Elmer R. (See Rich, J. P., and Burling.)
Burns, Richard H., assignor to Indiana Steel & Wire Company, Muncie, Ind. Solid wire and strand clamp. 2,278,717; Apr. 7.
Buschbeck, Werner, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Antenna coupling with a coaxial line. 2,278,531; Apr. 7.
Busse, Martha A., Syracuse, N. Y. Garment hanger. 2,278,912; Apr. 7.
Byrkit, Gordon D. (See Davis, L. L., Lincoln, and Byrkit.)
Cahn, Arthur, assignor to J. J. Cahn, New York, N. Y. Heat controlling and regulating device. 2,279,107; Apr. 7.
Cahn, John J. (See Cahn, Arthur, assignor.)
Callahan, Walter A., Burbank, assignor to Technicolor Motion Picture Corporation, Hollywood, Calif. Cinematographic film and method. 2,278,423; Apr. 7.
Calvert, Bernard, near Worthington, Ind. Lifting attachment for tractors. 2,278,412; Apr. 7.
Calvert, Percy L., Walla Walla, Wash. Power drive for pipe threading machines. 2,278,768; Apr. 7.
Caminez, Harold, Hackensack, N. J., assignor to Air Associates Incorporated, Bendix, N. J. Accumulator. 2,278,688; Apr. 7.
Camp, Thomas L., Los Angeles, Calif., assignor to Permatex Company, Inc., Brooklyn, N. Y. Oil testing device. 2,279,159; Apr. 7.
Campbell, Carrie E., as administratrix. (See Campbell, Charles A.)
Campbell, Charles A., deceased, late of Watertown, N. Y., by C. E. Campbell, administratrix, Watertown, N. Y., assignor to The New York Air Brake Company. Reversing sander. 2,279,158; Apr. 7.
Campbell, Charles H., assignor to Sonoco Products Company, Hartsville, S. C. Cover for textile rolls and method of making the same. 2,278,424; Apr. 7.
Campbell, George F., assignor to Old Ben Coal Corporation, Chicago, Ill. Coal coloring method. 2,278,413; Apr. 7.
Candido, Jerry G., New Haven, Conn. Apparatus for liquid fuel burning stoves. 2,278,972; Apr. 7.
Carbide and Carbon Chemicals Corporation. (See Rugeley, E. W., Feild, and Conlon, assignors.)
Carborundum Company, The. (See Benner, R. C., Baumann, Jr., and Easter, assignors.)
Carlson, Clarence G., Oakland, Calif. Infant furniture. 2,278,414; Apr. 7.
Carnegie-Illinois Steel Corporation. (See Quigley, W. M., and Taylerson, assignors.)
Caron, Octave P., Danielson, Conn. Loom. 2,278,862; Apr. 7.
Carr, Clifford E., Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Vat dye preparations. 2,278,973; Apr. 7.
Carter, Leslie F., Leonia, N. J., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Automatic brake for gyroscopic instruments. 2,278,913; Apr. 7.
Casco Products Corporation. (See Youhouse, Joseph, assignor.)
Castello, Allen D., Cuyahoga Falls, and H. L. Dixon, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Reclaimed rubber. 2,278,526; Apr. 7.
Cavedon, Alexander, Woonsocket, R. I. Comb for carding machines. 2,278,611; Apr. 7.
Cecil, Alex T., Columbus, Ohio, assignor to The Traylor Vibrator Company. Vibratory screen. 2,279,225; Apr. 7.
Celanese Corporation of America. (See Dreyfus, H., and Fallows, assignors.)
Celanese Corporation of America. (See Ellis, G. H., and Stanley, assignors.)
Century Engineering Company. (See Van Valkenburg, Eber H., assignor.)
Chase, George C., South Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Register. 2,278,863; Apr. 7.
Chase, Theron P., assignor to General Motors Corporation, Detroit, Mich. Emergency brake lever. 2,278,645; Apr. 7.
Chayle, Oliver J., South Bend, Ind., assignor, by mesne assignments, to American Machine and Metals, Inc., East Moline, Ill. Cleaning machine. 2,278,769; Apr. 7.
Chestnut, John D., San Marino, and R. M. Cooke, Los Angeles, Calif., assignors, by mesne assignments, to International Cementers, Inc. Apparatus for cementing wells. 2,279,287; Apr. 7.
Chiardio, James J., Philadelphia, Pa. Refrigerated freight vehicles. 2,278,827; Apr. 7.
Chiardio, James J., Philadelphia, Pa. Telephone conversation recording. 2,278,828; Apr. 7.
Chicago Pneumatic Tool Company. (See Katterjohn, August H., assignor.)
Chicago Telephone Supply Company. (See Schellenger, Newton C., assignor.)
Chilton, William D., assignor to General Motors Corporation, Detroit, Mich. Lock washer to bolt assembly machine. 2,278,689; Apr. 7.
Christensen, Herman M., Concordia, Kans. Planting. 2,278,864; Apr. 7.

Christensen, Paul L., Pittsfield, Mass., assignor to General Electric Company. Bushing for encased electrical apparatus. 2,278,974; Apr. 7.
Chromogen, Incorporated. (See Gaspar, B., and Schwarc, assignors.)
Chrysler Corporation. (See Gruitch, Jerry M., assignor.)
Chrysler Corporation. (See Williams, Burdell S., assignor.)
Cipriano, Gandolfo, Dongan Hills, N. Y. Method of and apparatus for forming hats. 2,278,865; Apr. 7.
Cities Service Oil Company. (See Brandt, David G., assignor.)
Clark, Breckinridge T., assignor to E. H. Jacobs Mfg. Co., Inc., Danielson, Conn. Dobby cord terminal. 2,279,132; Apr. 7.
Clark, Frank D., et al. (See Hoopes, Ernest A., assignor.)
Clark, Gerald I., assignor to Wooldridge Manufacturing Company, Sunnyvale, Calif. Earth moving equipment. 2,278,829; Apr. 7.
Clark, J. R., Company, The. (See John, Edward T., assignor.)
Clark, Noble C., Ferndale, assignor to The Murray Corporation of America, Detroit, Mich. Weather-strip and drain trough for convertible bodies. 2,278,646; Apr. 7.
Clarke, John L., Lachine, Quebec, Canada, assignor to American Telephone and Telegraph Company. Frequency control system. 2,278,690; Apr. 7.
Clarkson, William S., Ann Arbor, Mich. Fluid meter. 2,278,830; Apr. 7.
Clifford, Daniel L., Bridgeport, Conn. Device for applying chains to tires. 2,279,108; Apr. 7.
Clifford, Thomas W. (See Reason, R. E., and Clifford.)
Clum Manufacturing Company. (See Winning, Robert K., assignor.)
Cockerell, Christopher S., Danbury, and J. G. Robb, Richmond, England, assignors to Radio Corporation of America. Radio navigation aid. 2,279,031; Apr. 7.
Cockerille, Frank O., Albemarle County, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Purification of aliphatic acids and anhydrides. 2,278,831; Apr. 7.
Cohen, Charles A., Elizabeth, N. J., assignor to Standard Oil Development Company. Condensation of ketones. 2,279,020; Apr. 7.
Cohen, Willem L. (See Fiorentino, Aldo, assignor.)
Colbeth, Ivor M., East Orange, N. J., assignor to The Baker Castor Oil Company, New York, N. Y. Drying oil and process. 2,278,425; Apr. 7.
Colbeth, Ivor M., Maplewood, N. J., assignor to The Baker Castor Oil Company, New York, N. Y. Drying oil and process. 2,278,426; Apr. 7.
Colbeth, Ivor M., Maplewood, N. J., assignor to The Baker Castor Oil Company, New York, N. Y. Drying oil and process. 2,278,427; Apr. 7.
Colburn, Harry, Kingswood, Bristol, England. Heel for boots and shoes. 2,279,109; Apr. 7.
Coles, Walter H., and B. J. Nelson, assignors to The Skinner Irrigation Company, Troy, Ohio. Sprinkling apparatus. 2,278,580; Apr. 7.
Collings, William R., R. D. Freeman, and R. C. Anthonisen, assignors to The Dow Chemical Company, Midland, Mich. Method of making cellulose glycollic acid. 2,278,612; Apr. 7.
Collins, Allan J., Stamford, Conn., assignor, by mesne assignments, to E. Q. Moses, Carboro, N. Y. Armor plate. 2,279,110; Apr. 7.
Columbia Narrow Fabric Company. (See Randall, Norman E., assignor.)
Condon, Edward U., Edgewood, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Sensitive device for measuring linear density of wire. 2,278,510; Apr. 7.
Conlon, John F. (See Rugeley, E. W., Feild, and Conlon.)
Continental Oil Company. (See Crawford, J. M., and Prescott, assignors.)
Continental Oil Company. (See Davis, L. L., Lincoln, and Byrkit, assignors.)
Continental Oil Company. (See Edwards, Donald B., assignor.)
Cook, Dimitry, Detroit, Mich. Windshield wiper motor. 2,278,718; Apr. 7.
Cook, Robert M. (See Chesnut, J. D., and Cook.)
Cooper, Philip G., Merchantville, N. J., and C. D. Tuska, Philadelphia, Pa., assignors to Radio Corporation of America. Directional receiver. 2,279,021; Apr. 7.
Corbett, John M., Huntington Park, and R. B. Magee, Los Angeles, Calif., assignors, by mesne assignments, to The Buckeye Traction Ditcher Company, Findlay, Ohio. Scraper. 2,278,511; Apr. 7.
Cornelius, Richard T., Minneapolis, Minn. Motor pump unit. 2,278,832; Apr. 7.
Cotter, Bart, assignor to General Motors Corporation, Detroit, Mich. Fastening device. 2,278,691; Apr. 7.
Courchene, Theodore P., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,278,428; Apr. 7.
Coutant, Jay G. (See Quigley, W. S., and Coutant.)
Cowles, Harold A., Rochester, N. Y. Combined supporting and display device for boxes. 2,278,914; Apr. 7.
Cowlin, Donald G., Glendale, Calif. Towel dispensing cabinet. 2,279,032; Apr. 7.
Crane Co. (See Jones, Robert M., assignor.)
Crane Co. (See Stoyke, L. T., and Venton, assignors.)
Crawford, John M., and H. R. Prescott, assignors to Continental Oil Company, Ponca City, Okla. Torsion gravimeter. 2,279,261; Apr. 7.
Crawford, Richard A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Rubber-like composition containing neoprene and polyvinyl chloride. 2,278,833; Apr. 7.
Crawford, William E., Wauwatosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Automatic arc welding head. 2,278,975; Apr. 7.
Crede, Charles E., Chicago, Ill., assignor to Standard Railway Devices Company. Refrigerator car construction. 2,278,834; Apr. 7.
Creveling, John L., near Tucson, Ariz. Electric regulation. 2,278,770; Apr. 7.
Crickmer, Charles S., assignor to the firm Merla Tool Company of Dallas, Tex. Well flowing apparatus. 2,278,532; Apr. 7.
Critchfield, Walter O., assignor to Shelby Salesbook Company, Shelby, Ohio. Typewriter feeder. 2,278,915; Apr. 7.
Critoph, David I., and H. S. Schrader, Buffalo, and O. W. Richards, Snyder, assignors to Spencer Lens Company, Buffalo, N. Y. Illuminating device. 2,278,916; Apr. 7.
Crompton & Knowles Loom Works. (See Guerin, Ernest P., assignor.)
Crompton & Knowles Loom Works. (See Turner, Richard G., assignor.)
Crompton & Knowles Loom Works. (See Wattie, William M., assignor.)
Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Reactance tube modulation. 2,278,429; Apr. 7.
Crosby Steam Gage & Valve Company. (See Smith, N. J., and Thomas, assignors.)
Cross, Roland C., Bath, England. Manufacture of piston and other rings from wire. 2,279,133; Apr. 7.
Crowley, Daniel J., Grosse Pointe, Mich. Combined lamp and radio receiving set. 2,278,835; Apr. 7.
Crown Stove Works. (See Rogers, Walter F., assignor.)
Crume, John J., Amarillo, Tex. Street washing apparatus. 2,278,976; Apr. 7.
Csaszar, Paul J., New York, N. Y. Stencil for and process of printing. 2,278,771; Apr. 7.
Cube Steak Machine Company. (See Spang, Joseph P., assignor.)
Curry, Joe G., Indianapolis, Ind., assignor, by mesne assignments, to Reconstruction Finance Corporation, Boston, Mass. Dowel bar support. 2,278,917; Apr. 7.
Cutler-Hammer, Inc. (See Baer, W. O., and Seeger, assignors.)
Cyphers, James F., Maplewood, N. J., G. Scheu, and W. T. Jones, assignors to Rockwood & Co., Brooklyn, N. Y. Continuous solvent extraction apparatus. 2,278,647; Apr. 7.
Dalrymple, Ferdinand H., Bedford, Ohio. Chain. 2,279,134; Apr. 7.
Davidson, Chester L., Burbank, assignor to Aviation Patents, Inc., Los Angeles, Calif. Impulse switch. 2,278,918; Apr. 7.
Davis, Ernest, assignor to The Prosperity Company, Inc., Syracuse, N. Y. Hydraulic motion controlling governor or check. 2,279,160; Apr. 7.
Davis, Lloyd L., B. H. Lincoln, and G. D. Byrkit, assignors to Continental Oil Company, Ponca City, Okla. Method of synthesizing sulphur-bearing, high molecular weight hydrocarbons. 2,278,719; Apr. 7.
Dain Manufacturing Company of Iowa. (See McClellan, Marcus E., assignor.)
Dawson, John W., Auburndale, assignor to Raytheon Manufacturing Company, Newton, Mass. Rapid condenser welding system. 2,278,430; Apr. 7.
Day, Roland B., assignor to Universal Oil Products Company, Chicago, Ill. Reactivating catalyst. 2,278,836; Apr. 7.
De Castro, Adolphe, Los Angeles, Calif. Incandescent lamp. 2,278,837; Apr. 7.
Deems, Edward H. (See Lavarack, F. C., and Deems.)
Deere & Company. (See Green, Joseph L., assignor.)
De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Composition of matter and process for preventing water-in-oil type emulsions resulting from acidization of calcareous oil-bearing strata. 2,278,838; Apr. 7.
De Hart, William A., Teaneck, N. J., assignor to Kamket Corporation, New York, N. Y. Book construction. 2,279,193; Apr. 7.
Delaware Chemical Engineering and Development Company. (See Alexander, H. L., Du Pont, and Foulke, assignors.)
Dell'Elba, Charles, New York, N. Y. Vanity case. 2,278,866; Apr. 7.
Dennis, Eric. (See White, P., Dennis, and Nicolle.)
De Roo, William C., Kokomo, Ind., assignor to General Motors Corporation, Detroit, Mich. Mechanical drive. 2,278,648; Apr. 7.
Desautels, Charles H., Springfield, Mass., assignor to United States Rubber Company, New York, N. Y. Apparatus for wrapping bead wires. 2,278,533; Apr. 7.
Detroit Harvester Company. (See Kost, Harold W., assignor.)

Dettwyler, William, Pitman, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dyestuffs of the anthraquinone series. 2,278,977; Apr. 7.
Dewey and Almy Chemical Company. (See Mark, Jacob G., assignor.)
Dewhirst, Paul A. (See Hamer, Leland S., assignor.)
DeWitt, Myrtle A., San Francisco, Calif. Oil gauge rod wiper. 2,279,111; Apr. 7.
Dexter, MacDougald, Columbus, Ga. Attic ventilator. 2,278,581; Apr. 7.
Deyrup, Alden J., Elizabeth, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Lead-free glaze of low maturing temperature for use in decorating ceramic ware. 2,278,867; Apr. 7.
Deyrup, Alden J., Elizabeth, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Glass colors of high alkali resistance. 2,278,868; Apr. 7.
d'Humy, Fernand E., Scarsdale, assignor to The Western Union Telegraph Company, New York, N. Y. Printing telegraph record form. 2,279,161; Apr. 7.
Diamond Expansion Bolt Company. (See Luttgens, Everett P., assignor.)
Dickason, John W., Detroit, Mich. Door latch operator. 2,278,534; Apr. 7.
Dickens, Howard G., Thomasville, N. C., assignor, by mesne assignments, to Hemphill Company. Knitting machine. 2,278,869; Apr. 7.
Dickson, John B., Northampton, R. A. Stafford and P. E. Blanchfield, Chicopee, assignors to A. G. Spalding & Bros. Inc., Chicopee, Mass. Ball. 2,278,649; Apr. 7.
Di Palma, Joseph. (See Kellems, V., and di Palma.)
Dobson, Henry, New Orleans, La. Crossbow. 2,278,535; Apr. 7.
Döhle, Hinrich, Berlin-Altglienicke, H. Langner, Berlin-Steglitz, and W. Schramm, Berlin, assignors to Telephon-Apparat-Fabric E. Zwietusch & Co., G. m. b. H., Berlin-Charlottenburg, Germany. Telephone pay station. 2,278,536; Apr. 7.
Dolbear, Clinton E., Alameda, Calif. Method of preparing chromite briquettes. 2,279,033; Apr. 7.
Dole Valve Company, The. (See Brown, Clyde A., assignor.)
Donati, Renato. (See Greguoli, L. A., and Donati.)
Donelian, Khatchik O. (See Evans, F. C., and Donelian.)
Doty, Charles R., Yonkers, assignor to International Business Machines Corporation, New York, N. Y. Translating mechanism. 2,278,978; Apr. 7.
Douglas Aircraft Company. (See Raymond, Arthur E., assignor.)
Douglass, Forrest G., Los Angeles, Calif., assignor to Viber Company. Rotor for vibrators. 2,278,839; Apr. 7.
Douglas, Harry A., Bronson, Mich., assignor to Kingston Products Corporation. Electrical control apparatus. 2,278,840; Apr. 7.
Dow Chemical Company, The. (See Collings, W. R., Freeman, and Anthonisen, assignors.)
Dow Chemical Company, The. (See Gibb, D. L., and Savage, assignors.)
Dow Chemical Company, The. (See Heath, Sheldon B., assignor.)
Dow Chemical Company. (See McDonald, John C., assignor.)
Dow Chemical Company, The. (See Smith, F. B., and Hansen, assignors.)
Drake, John L., and G. B. Watkins, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Pressing apparatus. 2,279,112; Apr. 7.
Draper, Donald C., assignor to Tomkins-Johnson Company, Jackson, Mich. Mechanical loader for riveting machines. 2,279,226; Apr. 7.
Dreyfus, Henry, London, and L. Fallows, Spondon, near Derby, England, assignors to Celanese Corporation of America. Manufacture of aliphatic compounds. 2,278,537; Apr. 7.
Drinkwater, Charles M., assignor to Wabash Screen Door Company, Chicago, Ill. Support for brushes and like articles. 2,278,650; Apr. 7.
Dubilier, William, New York, N. Y. Insect screen. 2,278,538; Apr. 7.
Dudek, Augustin L., Ashtabula, Ohio. Cigarette advertising display. 2,279,113; Apr. 7.
Duden, Gustav, Dusseldorf, Germany, assignor to Naamlooze Vennootschap: Maatschappij tot Exploitatie van "ten Bosch Octroolen N. V.", Arnhem, Netherlands. Centrifugal filling means for compression molds. 2,278,772; Apr. 7.
Duner Co. (See Larson, Nels, assignor.)
Dunn, Thomas H., assignor to Stanolind Oil & Gas Company, Tulsa, Okla. Drill mud treating. 2,278,841; Apr. 7.
Dunn, William E., Kansas City, Mo., assignor to The Fluor Corporation, Ltd., Los Angeles, Calif. Air washer. 2,278,432; Apr. 7.
Dunning, Orville M., Glen Ridge, and L. Z. La Forest, Orange, assignors to T. A. Edison, Incorporated, West Orange, N. J. Phonograph. 2,279,227; Apr. 7.
Dupler, Raymond R., Toledo, Ohio. Illuminated globe. 2,279,162; Apr. 7.
Duplex Printing Press Company, The. (See Watrous, George W., assignor.)
du Pont, E. I., de Nemours & Company. (See Arnold, Harold W., assignor.)
du Pont, E. I., de Nemours & Company. (See Barnes, Carl E., assignor.)
du Pont, E. I., de Nemours & Company. (See Carr, Clifford E., assignor.)
du Pont, E. I., de Nemours & Company. (See Cockerille, Frank O., assignor.)
du Pont, E. I., de Nemours & Company. (See Dettwyler, William, assignor.)
du Pont, E. I., de Nemours & Company. (See Deyrup, Alden J., assignor.)
du Pont, E. I., de Nemours & Company. (See Field, Edmund, assignor.)
du Pont, E. I., de Nemours & Company. (See Fields, Reuben T., assignor.)
du Pont, E. I., de Nemours & Company. (See Geary, Charles G., assignor.)
du Pont, E. I., de Nemours & Company. (See Gilbert Harvey N., assignor.)
du Pont, E. I., de Nemours & Company. (See Graham, Donald P., assignor.)
du Pont, E. I., de Nemours & Company. (See Graves, George De W., assignor.)
du Pont, E. I., de Nemours & Company. (See Hall, William Penn-Gaskill, assignors.)
du Pont, E. I., de Nemours & Company. (See Henke, C. O., and Schofield, assignors.)
du Pont, E. I., de Nemours & Company. (See Hoff, George P., assignor.)
du Pont, E. I., de Nemours & Company. (See Hunter, Archibald S., assignor.)
du Pont, E. I., de Nemours & Company. (See Keenen, Frank G., assignor.)
du Pont, E. I., de Nemours & Company. (See Klein, David X., assignor.)
du Pont, E. I., de Nemours & Company. (See Lewis, Everett V., assignor.)
du Pont, E. I., de Nemours & Company. (See Loder, Donald J., assignor.)
du Pont, E. I., de Nemours & Company. (See Loder, D. J., and Lee, assignors.)
du Pont, E. I., de Nemours & Company. (See Rossander, S. S., and Sparks, assignors.)
du Pont, E. I., de Nemours & Company. (See Spanagel, Edgar W., assignor.)
du Pont, E. I., de Nemours & Company. (See Swezey, F. H., Bishop, and Hoffman, assignors.)
Du Pont Film Manufacturing Corporation. (See Marasco, Martin, assignor.)
Du Pont Film Manufacturing Corporation. (See Middleton, Edmund B., assignor.)
du Pont, Hubert I. (See Alexander, H. L., du Pont, and Foulke.)
Duskes, Alfred, New York, N. Y. Motion picture apparatus. 2,279,022; Apr. 7.
Eames, William F. (See King, G. E., Harding, and Eames.)
Easley, Glenn R., et al. (See Bohan, Patrick J., assignor.)
Easter, George J. (See Benner, R. C., Baumann, Jr., and Easter.)
Eaton Manufacturing Company. (See Hoern, J. H., and Gabriel, assignors.)
Eberhardt, Herman W., Paterson, N. J. Precise indexing chuck. 2,278,651; Apr. 7.
Eclipse Counterbore Company. (See Young, William K., assignor.)
Edison General Electric Appliance Company. (See Kempton, Leslie A., assignor.)
Edison, Thomas A., Incorporated. (See Dunning, O. M., and La Forest, assignors.)
Edwards, Donald B. Houston, Tex., assignor to Continental Oil Company, Ponca City, Okla. Weighted cement. 2,279,262; Apr. 7.
Egli, Arnold A., Zurich, Switzerland, and C. Bökenkamp, Hamburg, assignors to Langbein-Pfanhauser-Werke Aktiengesellschaft, Leipzig, Germany. Apparatus for obtaining etchable deposits on printing cylinders. 2,278,512; Apr. 7.
Eglo Plastics, Inc. (See Paulson, Nils I., assignor.)
Eller, Keith B., Metuchen, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Facsimile signal inverter. 2,278,692; Apr. 7.
Elliott, Paul M., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Treatment of rubber. 2,278,539; Apr. 7.
Ellis, George H., and E. Stanley, Spondon, near Derby, England, assignors to Celanese Corporation of America. Production or treatment of pigments and textile and other materials containing them. 2,278,540; Apr. 7.
Elting, August O., Chicago, Ill. Lamp fixture. 2,278,433; Apr. 7.
Elting, August O., Chicago, Ill. Lamp assembly. 2,279,034; Apr. 7.
Elting, August O., Chicago, Ill. Lamp fixture. 2,279,035; Apr. 7.
Elting, August O., Chicago, Ill. Lamp fixture. 2,279,036; Apr. 7.
Emerson, Walter H., East Liverpool, Ohio, assignor to The Homer Laughlin China Company, Newell, W. Va. Cutoff apparatus for plastic material. 2,278,513; Apr. 7.
Emrick, Bert R. (See Harrington, G. G., Stokes, and Emrick.)

Emsco Derrick & Equipment Company. (See Tremolada, Guglielmo R., assignor.)
Emulsions Process Corporation. (See Pelk, Paul G., assignor.)
Endsley, Louis E., Pittsburgh, Pa., assignor to Fairbanks, Morse & Co., Chicago, Ill. Method of and means for controlling internal combustion engines. 2,279,037; Apr. 7.
Engel, John B., assignor to Bay West Paper Company, Green Bay, Wis. Paper dispensing cabinet. 2,279,135; Apr. 7.
Epstein, Jess. (See Brown, G. H., and Epstein.)
Erdmann, Hugo, Johnstown, Pa. Bouquet holder 2,278,773; Apr. 7.
Erickson, George L., Hasbrouck Heights, and R. J. Wise, Dunellen, N. J., assignors to The Western Union Telegraph Company, New York, N. Y. Facsimile apparatus. 2,278,919; Apr. 7.
Erskine, Arthur W., et al. (See Hoopes, Ernest A., assignor.)
Eureka Process Corporation. (See Walker, Jay P., assignor.)
Evans, Francis C., Dongan Hills, and K. O. Donellan, New York, N. Y., assignors to American District Telegraph Company, Jersey City, N. J. Photoelectric smoke detection system. 2,278,920; Apr. 7.
Evans, John G. (See Baldwin, A. W., Evans, and Salkeld.)
Evans, Robert D., and C. F. Wagner, Swissvale, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Control system. 2,279,228; Apr. 7.
Evans, Robert D., Swissvale, and J. E. Hobson, Pittsburgh, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Control apparatus. 2,279,229; Apr. 7.
Evett, Alonzo R. (See Richard, H. F. A., and Evett.)
Ewaldson, Waldemar C., Millington, N. J., and J. A. O'Handley, Brooklyn, assignors to Western Electric Company, Incorporated, New York, N. Y. Material serving apparatus. 2,279,114; Apr. 7.
Ewaldson, Waldemar C., Millington, and R. Gillis, Westfield, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Material serving apparatus. 2,279,115; Apr. 7.
Fahey, Francis A., Seattle, Wash. Can handling mechanism. 2,278,434; Apr. 7.
Failing, George E., Supply Company, The. (See Alexander, E. L., and Braithwaite, assignors.)
Fairbanks, Morse & Co. (See Endsley, Louis E., assignor.)
Fairbanks, Morse & Co. (See Hadley, Harlan A., assignor.)
Feild, Theophilus A. (See Rugeley, E. W., Feild, and Conlon.)
Feldman, Abraham G., assignor to Storkline Furniture Corporation, Chicago, Ill. Baby carriage. 2,278,582; Apr. 7.
Felt & Tarrant Mfg. Co. (See Niemann, Frederick A., assignor.)
Fernsch Aktiengesellschaft. (See Knick, Ulrich, assignor.)
Fernstrom, Charles, Oak Island, Minn., assignor of one-half to C. A. Johnson, L. Aanerud, and G. Stokes, Chicago, Ill., jointly. Attachment for fishing lines. 2,278,842; Apr. 7.
Fest, Herman P., Los Angeles, Calif. Pie divider. 2,278,774; Apr. 7.
Fides Gesellschaft für die Verwaltung und Verwertung von gewerblichen Schutzrechten mit beschränkter Haftung. (See Kudrna, B., and Schwartz, assignors.)
Fides Gesellschaft für die Verwaltung und Verwertung von gewerblichen Schutzrechten mit beschränkter Haftung. (See Pinell, Walter, assignor.)
Fides Gesellschaft fur die Verwaltung und Verwertung von gewerblichen Schutzrechten mit beschränkter Haftung. (See Scheller, Wilhelm, assignor.)
Field, Crosby, Brooklyn, N. Y., assignor to Brillo Manufacturing Company, Inc. Apparatus for manufacture of metal wool pads. 2,278,979; Apr. 7.
Field, Edmund, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Azeotropic distillation. 2,279,194; Apr. 7.
Fields, B. C., et al. (See Turney, Eugene T., assignor.)
Fields, Reuben T., Arlington, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Apparatus for the preparation of cast resins. 2,278,858; Apr. 7.
Fiak, Ferdinand, Irvington, N. J., assignor to Gifford-Wood Company, Hudson, N. Y. Ice breaker. 2,279,116; Apr. 7.
Finkelstein, William, Bronx, N. Y. Hair curler. 2,278,693; Apr. 7.
Fiorentino, Aldo, Paris, France, assignor to Willem Lodewijk Cohen, Bloemendaal-Overveen, Netherlands. Stress transmitting device. 2,278,775; Apr. 7.
Firner, William B., assignor to General Motors Corporation, Detroit, Mich. Double glass windowpane. 2,278,694; Apr. 7.
Fischer, Charles, Newark, N. J. Strip stock feed mechanism. 2,278,921; Apr. 7.
Fisher, Arthur W., Forest Hills, assignor to The Union Switch & Signal Company, Swissvale, Pa. Control apparatus. 2,279,117; Apr. 7.
Fitch, Clyde J., Endwell, assignor to International Business Machines Corporation, New York, N. Y. Impulse distributing means. 2,278,980; Apr. 7.
Fitch, Clyde J., Endwell, and K. R. Schneider, Endicott, assignors to International Business Machines Corporation, New York, N. Y. Teleprinter unit. 2,278,981; Apr. 7.
Flagg, Clifton E. (See Flagg, Wesley W., assignor.)
Flagg, Wesley W., Belmont, Mass., assignor of one-half to Clifton E. Flagg, Reno, Nev. Container. 2,278,870; Apr. 7.
Flex-O-Tube Company, The. (See Miller, William H., assignor.)
Florman, Edwin F., Godfrey Township, Madison County, assignor to Western Cartridge Company, East Alton, Ill. Chronographic method and apparatus. 2,278,514; Apr. 7.
Fluor Corporation, Ltd., The. (See Dunn, William E., assignor.)
Fluse, Abram, Jamaica, N. Y. Card hanger. 2,278,695; Apr. 7.
Folberth, Frederick G. and W. M., Cleveland, Ohio. Control mechanism for internal combustion engines. 2,278,871; Apr. 7.
Folberth, William M. (See Folberth, Frederick G. and W. M.)
Follansbee, Rogers, Evanston, Ill. Heating and air conditioning method and apparatus. 2,278,843; Apr. 7.
Follet, Vermont, Elmhurst, Ill., assignor to Standard Screw Company, Hartford, Conn. Fixture joint. 2,278,720; Apr. 7.
Food Manufacturing Corporation. (See Musher, Albert, assignor.)
Food Manufacturing Corporation. (See Plews, William J., assignor.)
Forrest, William H. (See Greene, E., and Forrest.)
Fortune, James C., and R. W. Brown, assignors to Reed Roller Bit Company, Houston, Tex. Lifting plug and wrench therefor. 2,279,118; Apr. 7.
Forward Process Company. (See Heinemann, Heinz, assignor.)
Fossa, Joseph, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Apparatus for removing lacing threads from shoe uppers. 2,278,435; Apr. 7.
Foulke, Willing B. (See Alexander, H. L., du Pont, and Foulke.)
Fowler, Harold W., Oakland, Calif. Pneumatic gauge and inflater mechanism. 2,278,776; Apr. 7.
Fram Corporation. (See Wilkinson, James W., assignor.)
Francis, Victor J., North Wembley, and G. H. Wilson, Wembley Park, England, assignors to General Electric Company. Cooling means for discharge lamps. 2,278,844; Apr. 7.
Frank, Karl. (See Wolff, Paul H.)
Freeman, Benjamin W. (See Knight, Chesterton S., assignor.)
Freeman, Louis G., Company, The. (See Freeman, Louis G., Jr., assignor.)
Freeman, Louis G., Jr., assignor to The Louis G. Freeman Company, Cincinnati, Ohio. Die. 2,278,542; Apr. 7.
Freeman, Richard D. (See Collings, W. R., Freeman, and Anthonisen.)
Freeman, Samuel, New York, N. Y. Hair curling device and curling hair. 2,278,541; Apr. 7.
Freimann, Frank, assignor to The Magnavox Company, Incorporated, Fort Wayne, Ind. Combined sound and picture reproducing apparatus. 2,279,119; Apr. 7.
French, Edward H., Columbus, Ohio. Distillation process. 2,278,543; Apr. 7.
French, Gordon W., assignor to Beasley, French and Company Limited, Bristol, England. Plain or satchel bag-making machine. 2,279,279; Apr. 7.
Friend, Otto A., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone coin collector. 2,278,436; Apr. 7.
Frolich, Per K., Westfield, N. J., assignor to Standard Oil Development Company. Printing roll. 2,278,982; Apr. 7.
Frost, Leslie E., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Bushing. 2,279,230; Apr. 7.
Fuener, Wilhelm v. (See Anthes, E., Fuener, and Simon.)
Fuller, Frederick L., West Orange, N. J., assignor to International Business Machines Corporation. New York, N. Y. Variable speed transmission device. 2,278,983; Apr. 7.
Funk, Gilbert R., assignor to Waukesha Foundry Company, Waukesha, Wis. Rotary pump. 2,279,136; Apr. 7.
Gabriel, Edward J. (See Hoern, J. H., and Gabriel.)
Gammeter, John R., Akron, Ohio. Article printing device. 2,278,652; Apr. 7.
Gardner Machine Company. (See Shue, Ingle B., assignor.)
Garner, Frederic H. (See Asbury, W. C., and Garner.)
Garvey, Benjamin S., and D. E. Henderson, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Composite article and making same. 2,278,777; Apr. 7.
Gaskill, Clarence E., Mason, and H. J. Hackman, Kings Mills, Ohio, assignors to Remington Arms Company, Inc. Ammunition feeding device. 2,278,544; Apr. 7.

Gáspár, Béla, Hollywood, Calif., and L. Schwarc, Brussels, Belgium, assignors to Chromogen, Incorporated. Method of treating color photographic materials. 2,278,984; Apr. 7.
Gasparich, Anton, Oakland, Calif. V-Boat. 2,279,163; Apr. 7.
Gaucher, Leon P. (See Nagle, R. E., and Gaucher.)
Gaumer, George K., assignor to Northwestern Steel and Wire Company, Sterling, Ill. Bale tie making machine. 2,278,613; Apr. 7.
Geary, Charles G., Perth Amboy, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Pigment for coloring ceramic compositions. 2,278,872; Apr. 7.
General Aniline & Film Corporation. (See Riester, Oskar, assignor.)
General Aniline & Film Corporation. (See Wolff, Paul H., assignor).
General Electric Company. (See Adams, Lester V., assignor.)
General Electric Company. (See Black, Willy, assignor.)
General Electric Company. (See Boehne, Eugene W., assignor.)
General Electric Company. (See Christensen, Paul L., assignor.)
General Electric Company. (See Francis, V. J., and Wilson, assignors.)
General Electric Company. (See Grosse, Vitaly, assignor.)
General Electric Company. (See Hall, Chester L., assignor.)
General Electric Company. (See Henderson, John R., assignor.)
General Electric Company. (See Hinnuber, J., and Ammann, assignors.)
General Electric Company. (See Kinnard, Isaac F., assignor.)
General Electric Company. (See Kleinow, Walter, assignor.)
General Electric Company. (See Korndorfer, Hubert, assignor.)
General Electric Company. (See Maerkisch, Gerhard, assignor.)
General Electric Company. (See McMahan, Kenton D., assignor.)
General Electric Company. (See Modlinger, Richard, assignor.)
General Electric Company. (See Roder, Hans, assignor.)
General Electric Company. (See Scott, W. J., and Anderson, assignors.)
General Electric Company. (See Weed, James M., assignor.)
General Electric Company. (See Weed, J. M., and Meador, assignors.)
General Electric Company. (See Zabel, William P., assignor.)
General Motors Corporation. (See Bluemle, Arnold A., assignor.)
General Motors Corporation. (See Braun, Frederick W., assignor.)
General Motors Corporation. (See Chase, Theron P., assignor.)
General Motors Corporation. (See Chilton, William D., assignor.)
General Motors Corporation. (See Cotter, Bart, assignor.)
General Motors Corporation. (See De Roo, William C., assignor.)
General Motors Corporation. (See Firner, William B., assignor.)
General Motors Corporation. (See Gould, Gray K., assignor.)
General Motors Corporation. (See Jorolemon, Earl W., assignor.)
General Motors Corporation. (See Rady, William J., assignor.)
General Motors Corporation. (See Werner, C. J., and Menzies, assignors.)
General Motors Corporation. (See Wernig, James H., assignor.)
General Printing Ink Corporation. (See Recht, William, assignor.)
General Properties Company. (See Munford, Theodore W., assignor.)
General Time Instruments Corporation. (See Schlenker, Max, assignor.)
General Tire & Rubber Company, The. (See Wright, William A., assignor.)
Gentzel, Perry H., State College, Pa. Safety valve construction. 2,278,437; Apr. 7.
George, Warren E., Pekamah, Nebr. Rotary engine. 2,278,696; Apr. 7.
Gerstenberger, Albin, Zella-Mehlis, Thuringia, Germany. Weapon having multiple load magazine. 2,278,438; Apr. 7.
Gessner, David, Worcester, Mass. Uncurling attachment for napping machines. 2,278,985; Apr. 7.
Gettleman, Samuel B., Chicago, Ill. Advertising folder. 2,279,164; Apr. 7.
Geyser, Emil K., Baldwin Township, Allegheny County, Pa. Window construction. 2,278,873; Apr. 7.
Gibb, Donald L., and A. B. Savage, assignors to The Dow Chemical Company, Midland, Mich. Laminated film protected surface. 2,278,515; Apr. 7.
Gibbs, S. E., Corydon, Iowa. Battery connector. 2,278,986; Apr. 7.
Gibson Electric Refrigeration Corporation. (See Rutenber, Edwin A., assignor.)
Gibson Patent Containers, Ltd. (See Page, John E., assignor.)
Gier, John R., Jr., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Method and apparatus for determining the carbon pressure of gases. 2,279,231. Apr. 7.
Giern, James B., and A. P. Arnoldt, Detroit, Mich. Retracting boring device. 2,278,845; Apr. 7.
Gifford, Robert A., Raleigh, Tenn. Bending machine. 2,279,038; Apr. 7.
Gifford-Wood Company. (See Fink, Ferdinard, assignor.)
Gilbert, Harvey N., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Purification of sodium monoxide. 2,279,088; Apr. 7.
Gill, Joseph W. (See Linzell, H. K., and Gill.)
Gillis, Randall. (See Ewaldson, W. C., and Gillis.)
Glaser, Leon M. (See Veneman, Carl Cook, assignor.)
Gleason Works. (See Wildhaber, Ernest, assignor.)
Glendon, Frank A. (See Scott, G. D., Whittemore, and Glendon.)
Goerth, Johannes, Berlin-Grunewald, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany. Electric contact apparatus. 2,278,846; Apr. 7.
Goldsmith, Michael D. (See Worth, H., and Goldsmith.)
Goodall, Leonard, Warrensburg, Mo. Rotary mower. 2,278,922; Apr. 7.
Goodenough, Ernest F. (See Rust, N. M., Brailsford, and Goodenough.)
Goodenough, Russell E. (See Terry, W. F., and Goodenough.)
Goodman Manufacturing Company. (See Pray, Thomas E., assignor.)
Goodman Manufacturing Company. (See Wood, Frank J., assignor.)
Goodrich, B. F., Company, The. (See Castello, A. D., and Dixon, assignors.)
Goodrich Company, B. F., The. (See Crawford, Richard A., assignor.)
Goodrich, B. F., Company, The. (See Garvey, B. S., and Henderson, assignors.)
Goodrich, B. F., Company, The. (See Harrison, M. M., and Gould, assignors.)
Goodrich, B. F., Company, The. (See Sarbach, Donald V., assignor.)
Goodwin, Carl W., Plainfield, N. J., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del. Bottle cap. 2,279,263; Apr. 7.
Gordon, Charles. (See Langbein, C., and Gordon.)
Gordon, Samuel H., Inverness, Scotland. Chain cable. 2,278,874; Apr. 7.
Gould & Eberhardt. (See Zimmermann, William F., assignor.)
Gould, Gray K., Kokomo, Ind., assignor to General Motors Corporation, Detroit, Mich. Automatic tube tester. 2,278,697; Apr. 7.
Gould, Louis P. (See Harrison, M., and Gould.)
Grace, Richard W., assignor to The Superior Switchboard & Devices Company, Canton, Ohio. Cover for meter enclosures. 2,279,165; Apr. 7.
Graham, Donald P., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Compounds of the dibenzanthrone series. 2,278,987; Apr. 7.
Graham, Harold J., Boston, assignor to Louis Letterman, Winthrop, Mass. Selective control apparatus. 2,279,232; Apr. 7.
Grau, Henry W., Louisa, Va. Ice cream bar making machine. 2,278,923; Apr. 7.
Grau, Herbert E., and C. A. Lundeen, Vernon, assignors to Byron Jackson Co., Huntington Park, Calif. Pipe tong. 2,278,439; Apr. 7.
Gravenstine, George E., assignor to The S. H. Thomson Manufacturing Company, Dayton, Ohio. Portable spot lamp. 2,278,545; Apr. 7.
Graves, George De W., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Method and apparatus for the production of artificial structures. 2,278,875; Apr. 7.
Graves, John L., Pacific Grove, Calif. Measuring instrument. 2,278,440; Apr. 7.
Gredell, Otto N., assignor to Standard Steel Works, Kansas City, Mo. Spraying apparatus for distributing machines. 2,278,819; Apr. 7.
Green, George, Houston, Tex. Removable cement retainer. 2,279,039; Apr. 7.
Green, Joseph L., assignor to Deere & Company, Moline, Ill. Power take-off connection. 2,278,698; Apr. 7.
Greene, Edgeworth, Upper Montclair, N. J., and W. H. Forrest, Brooklyn, assignors to Inter-Seal Corporation, New York, N. Y. Bottle closure. 2,278,924; Apr. 7.
Greene, Edgeworth, Upper Montclair, N. J., and W. H. Forrest, Brooklyn, assignors to Inter-Seal Corporation, New York, N. Y. Bottle closure. 2,278,925; Apr. 7.
Greer, Agnes J. R. (See Nyberg, Stone, assignor.)
Gregnoli, Lazzaro, A., Milan, and R. Donati, Rome, Italy. Process for the solidification of a liquid fuel allowing the total regeneration of the same from the solid combustibles. 2,278,847; Apr. 7.
Groene, Willard L., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Boring tool holder. 2,278,988; Apr. 7.
Groov-Pin Corporation. (See Braendel, Felix W., assignor.)

Grosse, Vitaly, Berlin-Lichterfelde, Germany, assignor to General Electric Company. Alternating current circuit interrupter. 2,279,040; Apr. 7.

Grossmann, Samuel W., and D. A. Rogers, Petersburg, Va., assignors to The Solvay Process Company, New York, N. Y. Apparatus for treatment of gases with sulphuric acid. 2,278,778; Apr. 7.

Grover, Elliott E. (See Anderson, W. B., and Grover.)

Groves, Frederick H., Dormont, Pa. Knock-down carton. 2,279,233; Apr. 7.

Gruitch, Jerry M., Dayton, Ohio, assignor to Chrysler Corporation, Detroit, Mich. Moisture disposal system for air cooled air conditioning units. 2,278,989; Apr. 7.

Guerbilsky, Alexis. (See Podliasky, I., and Guerbilsky.)

Guerin, Ernest P., Lawrence, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread cutter for automatic looms. 2,278,546; Apr. 7.

Guilfoil, Oscar D., Jr., assignor to Muench-Kreuzer Candle Co., Inc., Syracuse, N. Y. Candle unit. 2,279,137; Apr. 7.

Guillksen, Finn H., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Voltage indicator. 2,278,516; Apr. 7.

Gunn, Townsend M. (See Tillyer, E. D., Moulton and Gunn.)

H-T Band Socket Corporation. (See Taylor, Sam Y., assignor.)

Hackman, Harvey J. (See Gaskill, C. E., and Hackman.)

Hadley, Harlan A., St. Johnsbury, Vt., assignor to Fairbanks, Morse & Co., Chicago, Ill. Conveyer weighing scale. 2,279,041; Apr. 7.

Haehnel, Wolfram. (See Herrmann, W. O., and Haehnel.)

Hall, Chester I., Rexford, N. Y., assignor to General Electric Company. Thermal switch. 2,278,990; Apr. 7.

Hall, C. M., Lamp Company. (See Anklam, Charles W., assignor.)

Hall, Gladys O., et al. (See Turney, Eugene T., assignor.)

Hall, William Penn-Gaskill, Berwyn, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Automatic needle stop for bristling machine. 2,279,055; Apr. 7.

Hamer, Leland S., Long Beach, assignor of one-fourth to P. A. Dewhirst, Los Angeles, Calif. Line blind. 2,278,848; Apr. 7.

Hamer, Leland S., Long Beach, assignor of one-fourth to P. A. Dewhirst, Los Angeles, Calif. Line blind. 2,278,849; Apr. 7.

Hammond, John V., Spangler, Pa. Dynamite box. 2,278,850; Apr. 7.

Handy & Harman. (See Weiss, L., and Spanner, assignors.)

Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Reducing multipath effects. 2,278,779; Apr. 7.

Hansen, John N. (See Smith, F. B., and Hansen.)

Harding, William R. (See King, G. E., Harding, and Eames.)

Harrington, Daniel J., assignor to Inland Lime & Stone Company, Manistique, Mich. Screening apparatus. 2,279,042; Apr. 7.

Harrington, George G., J. C. Stokes and B. R. Emrick, assignors to Reed Roller Bit Company, Houston, Tex. Core taking apparatus. 2,278,780; Apr. 7.

Harrington, Paul J., Fanwood, N. J., assignor to Standard Oil Development Company. Fluid level device. 2,279,043; Apr. 7.

Harrison-Craig Company. (See Harrison, William H., assignor.)

Harrison, Marion M., and L. P. Gould, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Making porous rubber and compositions employed therein. 2,278,441; Apr. 7.

Harrison, Maurice R. (See Behringer, E., and Harrison.)

Harrison, William H., Los Angeles, Calif., assignor, by mesne assignments, to Harrison-Craig Company. Optical system for cinematography. 2,278,781; Apr. 7.

Harshaw Chemical Company, The. (See Kremers, Harry C., assignor.)

Hart, William E., West Hartford, Conn. Fishing fly. 2,278,876; Apr. 7.

Hartwell, Ralf L., Orange, assignor to Metal Textile Corporation, West Orange, N. J. Knitted metallic fabric for belting and other uses. 2,278,926; Apr. 7.

Harvey, Leo M., La Canada, and R. Hill, Los Angeles, Calif., said Hill assignor to said Harvey. Container. 2,278,782; Apr. 7.

Hasslacher, Carl A., Scarsdale, N. Y., and H. W. Rimbach, Jersey City, N. J., assignors to Technico, Incorporated, New York, N. Y. Device for raising and aerating liquids. 2,278,991; Apr. 7.

Hattox, Erwin M. (See Stahly, E. E., and Hattox.)

Heald Machine Company, The. (See Blood, Harold L., assignor.)

Heald Machine Company, The. (See Scott, G. H., Whittemore, and Glendon, assignors.)

Heany Industrial Ceramic Corporation. (See Heany, John A., assignor.)

Heany, John A., New Haven, Conn., assignor to Heany Industrial Ceramic Corporation, Rochester, N. Y. Process of making ceramics, abrasives, and the like from alumina, and products thereof. 2,278,442; Apr. 7.

Heat-Pump Corporation. (See Leo, Norton B.)

Heath, Sheldon B., assignor to The Dow Chemical Company, Midland, Mich. Auxin composition. 2,278,443; Apr. 7.

Heavens, E. M. (See Pohm, George H., assignor.)

Heckmann, Edward, Columbia, Mo. Metallic boat. 2,279,234; Apr. 7.

Heinemann, Heinz, Shreveport, La., assignor to Forward Process Company, Hillside, N. J. Refining cracked motor fuel distillates. 2,279,195; Apr. 7.

Heist, Solomon C., Hollsopple, Pa. Mold for electric welding. 2,279,044; Apr. 7.

Hemphill Company. (See Dickens, Howard G., assignor.)

Hemphill Company. (See St. Pierre, Eugene, assignor.)

Hemry, James H., Springfield, Ohio. Thermostatic controlling device for furnaces. 2,278,927; Apr. 7.

Henderson, Donald E. (See Garvey, B. S., and Henderson.)

Henderson, John R., Swampscott, Mass., assignor to General Electric Company. Power plant. 2,278,992; Apr. 7.

Henke, Clyde O., Wilmington, Del., and F. McG. Schofield, Woodstown, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Process of making alkyl amino fatty acid. 2,279,138; Apr. 7.

Hennessy, James J., New York, N. Y. Journal lubricator. 2,278,583; Apr. 7.

Hercules Powder Company. (See Stuart, Joseph, II, assignor.)

Herget, Marvin C., Williamsville, assignor to Bell Aircraft Corporation, Buffalo, N. Y. Metalworker's tool. 2,279,089; Apr. 7.

Herman, Henry F., Rye, assignor of one-half to H. S. Wetzler, New York, N. Y. Cooking device. 2,279,196; Apr. 7.

Herold, Lawrence C., Lakewood, Ohio. Brush. 2,278,928; Apr. 7.

Herrington, Ralph J., Minneapolis, Minn. Starting device. 2,278,547; Apr. 7.

Herrmann, Willy O., Deisenhofen, and W. Haehnel, Munich, assignors to Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie G. m. b. H., Munich, Germany. Process for the preparation of polyvinyl formate. 2,278,783; Apr. 7.

Hertrich, Joseph, Hamilton, Ohio, assignor to The Western States Machine Company, New York, N. Y. Discharger for centrifugal machine. 2,279,235; Apr. 7.

Hettrick Manufacturing Company, The. (See Baumker, William H., assignor.)

Heywood-Wakefield Company. (See Jiranek, Leo, assignor.)

Hill, Reuben. (See Harvey, L. M., and Hill.)

Hillman, Eric S., Oakland, assignor to Shell Development Company, San Francisco, Calif. Lubricating oil composition. 2,278,851; Apr. 7.

Hinnuber, Joseph, and E. Ammann, Essen, Germany, assignors to General Electric Company. Metal bonded abrasive body. 2,279,045; Apr. 7.

Hirshfeld, Clarence F. (See Piron, E. H., and Hirshfeld.)

Hobart, Alfred L., Springfield, Mass. Flood lighting. 2,278,877; Apr. 7.

Hobson, Jesse E. (See Evans, R. D., and Hobson.)

Hodil, Ralph W., and J. C. Redmond, Youngstown, Ohio. Coating apparatus. 2,279,166; Apr. 7.

Hoell, George S., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Forming machine. 2,279,197; Apr. 7.

Hoern, Joseph H., Birmingham, and E. J. Gabriel, Marshall, Mich., assignors to Eaton Manufacturing Company, Cleveland, Ohio. Grinding machine. 2,278,784; Apr. 7.

Hoff, George P., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Delustering and pigmenting. 2,278,878; Apr. 7.

Hoffman, Earl E., Arlington, Va., assignor to National Paint, Varnish and Lacquer Association, Inc., Washington, D. C. Hardness tester. 2,279,264; Apr. 7.

Hoffman, Robert M. (See Swezey, F. H., Bishop, and Hoffman.)

Hoffman, Sylvester T., Sleepy Eye, Minn. Electrical insulator attachment device. 2,278,852; Apr. 7.

Holley, Earl, et al. (See Kittler, M. J., and Udale, assignors.)

Holley, George M., et al. (See Kittler, M. J., and Udale, assignors.)

Hollmann, Hubert, assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio. Direction indicator for road vehicles. 2,278,653; Apr. 7.

Homer, Edward C., and W. D. Buckingham, Southampton, assignors to The Western Union Telegraph Company, New York, N. Y. Inductor alternator. 2,278,654; Apr. 7.

Homer Laughlin China Company, The. (See Emerson, Walter H., assignor.)

Hoopes, Ernest A., Des Moines, assignor, by direct and mesne assignments, of three-eighths to A. W. Erskine, Cedar Rapids, and one-eighth to F. D. Clark, Des Moines, Iowa. Thermostatic element. 2,279,236; Apr. 7.

Hoover Company, The. (See Troxler, Charles G., assignor.)

Hopper, Andrew L., River Edge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Vibrating polar relay system. 2,278,444; Apr. 7.

Horowitz, William. (See Savada, M., and Horowitz.)

Horvitz, Leo, assignor to E. E. Rosaire, Houston, Tex. Geochemical prospecting. 2,278,929; Apr. 7.

Hoyt, Frederick A., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Coin chute. 2,278,930; Apr. 7.

Hudson, Hill, Tacoma, Wash., deceased, assignor of one-half to Moline Malleable Iron Company, St. Charles, Ill., N. E. Hudson, executrix. Conveyer flight. 2,278,853; Apr. 7.

Hudson, Nancy E., as executrix. (See Hudson, Hill.)

Hull, Carl M., assignor to Standard Oil Company, Chicago, Ill. Producing polymerized oils. 2,278,445; Apr. 7.

Hunsicker, Clyde L., San Francisco, Calif. Drying apparatus. 2,278,854; Apr. 7.

Hunter, Archibald S., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Yarn structure and method and apparatus for producing same. 2,278,879; Apr. 7.

Huppke, Walter F., Lomita, assignor to Union Oil Company of California, Los Angeles, Calif. Catalytic conversion of hydrocarbons. 2,279,198; Apr. 7.

Huppke, Walter F., Lomita, assignor to Union Oil Company of California, Los Angeles, Calif. Catalytic conversion of hydrocarbons. 2,279,199; Apr. 7.

Hurley, Lon G., Inglewood, Calif., assignor to J. D. Altemus, Roslyn, N. Y. Automobile chassis. 2,279,120; Apr. 7.

Hutchinson, Archie D. L., Seattle, Wash. Dump truck. 2,278,446; Apr. 7.

Hyde, Ralph H., Campbell, Calif. Water pipe joint. 2,278,447; Apr. 7.

Hydraulic Development Corporation, The. (See Riddle, William J., assignor.)

Hydrocarbon Synthesis Corporation. (See Buchner, Karl, assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Anthes, E., Fuener, and Simon, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Kallmann, H. I., and Kuhn, assignors.)

Illinois Railway Equipment Company. (See Johnson, Malcolm S., assignor.)

Imperial Brass Manufacturing Company, The. (See Kellems, Edgar E., assignor.)

Imperial Chemical Industries Limited. (See Bladwin, A. W., Evans, and Salkeld, assignors.)

Improved Paper Machinery Corporation. (See Rich, John P., assignor.)

Improved Paper Machinery Corporation. (See Rich, J. P., and Burling, assignors.)

Indiana Steel & Wire Company. (See Burns, Richard H., assignor.)

Industrial Patents Corporation. (See Parsons, Clinton H. and Scott, assignors.)

Ingalls, David, Westfield, N. J., assignor to Titeflex Metal Hose Co. Radio shielding conduit connection. 2,278,448; Apr. 7.

Ingersoll-Rand Company. (See Karr, Alfred D., assignor.)

Inland Lime & Stone Company. (See Harrington, Daniel J., assignor.)

International Business Machines Corporation. (See Armbruster, John W., assignor.)

International Business Machines Corporation. (See Doty, Charles R., assignor.)

International Business Machines Corporation. (See Fitch, Clyde J., assignor.)

International Business Machines Corporation. (See Fitch, C. J., and Schneider, assignors.)

International Business Machines Corporation. (See Fuller, Frederick L., assignor.)

International Business Machines Corporation. (See Johnson, Reynolds B., assignor.)

International Business Machines Corporation. (See Nichols, Harry J., assignor.)

International Business Machines Corporation. (See Stauss, Karl R., assignor.)

International Cementers, Inc. (See Chesnut, J. D., and Cook, assignors.)

International Nickel Company, The. (See Talbot, A. M., and Mearns, assignors.)

Inter-Seal Corporation. (See Greene, F., and Forrest, assignors.)

Irwin, Roy E., assignor to The British American Oil Company, Ltd., Toronto, Ontario, Canada. Fluid density measurement. 2,279,254; Apr. 7.

Ivy, Jessie T., Seattle, Wash. Gearing. 2,278,880; Apr. 7.

Jackson, Arthur M., Los Angeles, Calif. Rotary seal. 2,279,167; Apr. 7.

Jackson, Byron, Co. (See Grau, H. E., and Lundeen, assignors.)

Jacobs, E. H., Mfg. Co. (See Clark, Breckinridge T., assignor.)

Jacocks, George T., Larchmont, assignor to The Lummus Company, New York, N. Y. Pressure vessel. 2,278,881; Apr. 7.

Jacocks, George T., New Rochelle, assignor to The Lummus Company, New York, N. Y. Pressure vessel. 2,278,882; Apr. 7.

Jaeger Watch Company. (See Berge, Joseph, assignor.)

Jaeger Watch Company. (See Vail, Edgar L., assignor.)

James, Claud J., Milwaukee, Wis. Bicycle lamp. 2,278,614; Apr. 7.

James, John W., Macon, Ga. Automatic faucet. 2,278,655; Apr. 7.

Jeffrey Manufacturing Company, The. (See Jeffrey, Robert K., assignor.)

Jeffrey, Robert K., Calumbus, Ohio, assignor to The Jeffrey Manufacturing Company. Mining machine. 2,278,656; Apr. 7.

Jenkins, Alexander. (See Thompson, L. E., and Jenkins.)

Jenner, Arthur J., Chicago, Ill., assignor to Miller Printing Machinery Co., Pittsburgh, Pa. Article handling. 2,278,449; Apr. 7.

Jens, Albert A., St. Paul, Minn. Dual flash welding apparatus. 2,278,615; Apr. 7.

Jiranek, Leo, New York, N. Y., assignor to Heywood-Wakefield Company, Gardner, Mass. End standard for theatre chairs. 2,278,855; Apr. 7.

Jiranek, Leo, New York, N. Y., assignor to Heywood-Wakefield Company, Gardner, Mass. End standard for theatre chairs. 2,278,856; Apr. 7.

John, Edward T., assignor to The J. R. Clark Company, Minneapolis, Minn. Pad for ironing table tops. 2,278,517; Apr. 7.

Johnson, Arvid W. and A. A. Benson, Los Angeles, Calif. Brake. 2,279,274; Apr. 7.

Johnson, Carl A., et al. (See Fernstrom, Charles, assignor.)

Johnson, Edward, Preston, Minn. Fish scaler and scraper. 2,279,139; Apr. 7.

Johnson, Howard L. (See West, B., and Johnson.)

Johnson, Malcolm S., assignor to Illinois Railway Equipment Company, Chicago, Ill. Brake hanger bracket and retainer means. 2,278,785; Apr. 7.

Johnson, Reynold B., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Record controlled indicating mechanism. 2,278,993; Apr. 7.

Johnston, Dwight A., assignor to McKay Machine Company, Youngstown, Ohio. Flying shear. 2,278,786; Apr. 7.

Johnston, Norris. (See Bertness, T. A., Johnston, and Newton.)

Jones, Byron Q., United States Army. Military vehicle body. 2,278,450; Apr. 7.

Jones, Robert M., assignor to Crane Co., Chicago, Ill. Fluid seal for pressure vessels. 2,278,721; Apr. 7.

Jones, Wallace T. (See Cyphers, J. F., Scheu and Jones.)

Jordhoy, Hans C. (See Tornberg, L., and Jordhoy.)

Jorolemon, Earl W., Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich. Boiler construction. 2,278,699; Apr. 7.

Judisch, Carl H., assignor to The Whitney Blake Company, New Haven, Conn. Heater plug. 2,279,265; Apr. 7.

Kalischer, Philip R. and H. H. Schmitt, Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Process for kovar-glass seals. 2,279,168; Apr. 7.

Kalimann, Hartmut I., formerly known as Hartmut Kallmann, Berlin-Charlottenburg, and E. Kuhn, Berlin, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Method and device for depicting objects. 2,279,023; Apr. 7.

Kaloshin, Dmitri A., assignor of one-half to P. Pimenoff and P. Lubushkin, both of San Francisco, Calif. Air brake. 2,278,700; Apr. 7.

Kamenarovic, Lav, Milan, Italy, assignor to Radio Corporation of America. Noise suppression circuit. 2,279,275; Apr. 7.

Kamket Corporation. (See De Hart, William D., assignor.)

Kannenstine, Fabian M. (See Adler, Joseph L., assignor.)

Kantor, James, assignor to The Liquid Carbonic Corporation, Chicago, Ill. Apparatus for crowning containers under vacuum. 2,279,266; Apr. 7.

Kapella Limited. (See Reason, R. E., and Clifford, assignors.)

Karr, Alfred D., Newark, N. J., assignor to Ingersoll-Rand Company, New York, N. Y. Vacuum moistening apparatus. 2,278,701; Apr. 7.

Katterjohn, August H., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Double lock chuck for rock drills. 2,278,931; Apr. 7.

Kearney, Edward, Chicago, Ill. Window shade trimmer. 2,279,046; Apr. 7.

Keely, Herman A. (See Brownson, Percy, and Keely.)

Keenen, Frank G., Swarthmore, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Fertilizer manufacture. 2,279,200; Apr. 7.

Keiser, Bernhard. (See De Groote, M., and Keiser.)

Kellems, Edgar E., Pasadena, Calif., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Flaring and swedging tool. 2,278,932; Apr. 7.

Kellems Products Inc. (See Kellems, V., and di Palma, assignors.)

Kellems, Vivien, Westport, Conn., and J. Di Palma, Brooklyn, assignors to Kellems Products Inc., New York, N. Y. Article holder. 2,279,237; Apr. 7.

Kellen, Leo J., Ashton, Iowa. Electrical tire pressure gauge and indicator. 2,279,140; Apr. 7.

Kempton, Leslie A., assignor to Edison General Electric Appliance Company, Inc., Chicago, Ill. Electric heater. 2,278,994; Apr. 7.

Kenney, John S., Rayland, Ohio, and A. L. Milton, Wheeling, W. Va., assignors to Wheeling Steel Corporation, Wheeling, W. Va. Apparatus for classifying sheets. 2,278,518; Apr. 7.

Kent, Everett E., Newton, assignor of thirty-seven and one-half per cent to Frederick H. McAdams, Revere, and twenty-nine and one-sixth per cent to John B. Neal, Allston, Mass. Separator for bottled milk and cream. 2,278,451; Apr. 7.

Kent, Everett E., et al., Trustees. (See Birchall, Joseph Cent, assignor.)

Kepler, Gustav, Chicago, Ill. Hair waving appliance. 2,278,857; Apr. 7.

Kepner, Robert C., Bloomsburg, Pa., assignor to American Car and Foundry Company, New York, N. Y. Mine car bearing. 2,278,883; Apr. 7.

Kettering, Willard S., Pueblo, Colo. Basketball game apparatus. 2,278,616; Apr. 7.

Kidd, David B., assignor to Molins Machine Company Limited, Deptford, London, England. Packet making machine. 2,278,787; Apr. 7.

King, George E., Wilkinsburg, W. R. Harding, Pittsburgh, and W. F. Eames, Edgewood, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh Pa. Variable voltage control system. 2,278,519; Apr. 7.

Kingston Products Corporation. (See Douglas, Harry A., assignor.)

Kinnard, Isaac F., Lynnfield, Mass., assignor to General Electric Company. Watthour meter. 2,278,995; Apr. 7.

Kinnear Manufacturing Company, The. (See Laufersweiler, W. J., and Thompson, assignors.)

Kirby, Walter G., and L. E. Steinle, Naugatuck, Conn., assignors to United States Rubber Company, New York, N. Y. Reclamation of rubber. 2,279,047, Apr. 7.

Kistler, Samuel S., West Boylston, Mass. Device for timing chemical reactions. 2,279,121; Apr. 7.

Kittel, John J., St. Albans, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 2,279,141; Apr. 7.

Kittel, John J., St. Albans, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 2,279,142; Apr. 7.

Kittler, Milton J., and S. M. Udale, Detroit, Mich., assignors to G. M. and E. Holley. Torque controlled fuel supply system. 2,279,048; Apr. 7.

Klein, David X., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. 2-methoxy-5-aminobenzyl alcohol. 2,278,996; Apr. 7.

Klein, Maximilian, Sellersville, and W. E. Pfeffer, South Perkasie, assignors to United States Gauge Company, Sellersville, Pa. Illuminable panel, dial, and pointer structure. 2,278,520; Apr. 7.

Klein, Victor G. (See Barks, F. S., Rotter, and Klein.)

Kleinow, Walter, Hennigsdorf, Kreis Osthavelland, Germany, assignor to General Electric Company. Freezing evaporator. 2,279,049; Apr. 7.

Klemperer, Hans, Belmont, assignor to Raytheon Manufacturing Company, Newton, Mass. Condenser welding system. 2,278,431; Apr. 7.

Kline, John E., Grosse Pointe Farms, and D. T. Peden, Ann Arbor, assignors to Micromatic Hone Corporation, Detroit, Mich. Tool vibrating means. 2,278,657; Apr. 7.

Knibb, Leroy H., Sabot, Va. Refrigerator ice cream freezer. 2,278,617; Apr. 7.

Knick, Ulrich, Berlin-Steglitz, assignor to Fernsch Aktiengesellschaft, Berlin-Zehlendorf, Germany. Television transmission system. 2,278,788; Apr. 7.

Knight, Abner F., Fairfield, Ala. Shaft coupling. 2,278,997; Apr. 7.

Knight, Chesterton S., Brockton, Mass., assignor to B. W. Freeman, Cincinnati, Ohio. Die assembly. 2,278,618; Apr. 7.

Knittle, Gale L., Brookfield, Ill., assignor to American Telephone and Telegraph Company. Telephone circuit. 2,278,702; Apr. 7.

Knittle, Gale L., Brookfield, Ill., assignor to American Telephone and Telegraph Company. Teletypewriter recording system. 2,278,703; Apr. 7.

Kocher, Edward H., Boonton, N. J., assignor to Auto Research Corporation. Lubrication. 2,278,452; Apr. 7.

Kögel, Wilhelm G., Evansville, Ind., assignor, by mesne assignments, to Servel, Inc., New York, N. Y. Refrigeration. 2,278,998; Apr. 7.

Kojola, Hugo V., Kenmore, N. Y., and M. O'Brien, Indianapolis, Ind., assignor to Prest-O-Lite Company, Inc. Apparatus for producing acetylene and lime hydrate. 2,278,521; Apr. 7.

Korb-Pettit Wire Fabrics & Iron Works, Inc. (See Blackburn, Ernest L., assignor.)

Korizon, John, Atlanta, Ga. Terrazzo mold. 2,278,884; Apr. 7.

Korndörfer, Hubert, Berlin, Germany, assignor to General Electric Company. Electric circuit interrupter. 2,279,024; Apr. 7.

Kost, Harold W., Birmingham, assignor to Detroit Harvester Company, Detroit, Mich. Sheet metal fastener. 2,279,169; Apr. 7.

Kott, Hermann, East Orange, N. J., assignor, by mesne assignments, to Speedry Gravure Corporation. Control mechanism for printing presses. 2,278,933; Apr. 7.

Kovalchuk, Steve D., Detroit, Mich. Foldable table. 2,279,122; Apr. 7.

Koyner, R. L., et al. (See Bohan, Patrick J., assignor.)

Kozak, Joseph L., Munster, Ind., and C. F. Abraham, Chicago, Ill., assignors to Screw Conveyor Corporation, Hammond, Ind. Combination coupler and hanger structure for screw conveyers. 2,279,201; Apr. 7.

Kracklauer, Aloysius C., Chicago, assignor to Sparkler Manufacturing Company, Mundelein, Ill., a co-partnership. Plate filter. 2,278,453; Apr. 7.

Kraut, Samuel B., Cleveland Heights, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Insulated support for lighting units. 2,279,170; Apr. 7.

Kremers, Harry C., Cleveland Heights, assignor to The Harshaw Chemical Company, Elyria, Ohio. Deenameling process. 2,279,267; Apr. 7.

Kroger, Fred H., Patchogue, N. Y., assignor to Radio Corporation of America. Frequency modulation. 2,278,658; Apr. 7.

Kudrna, Benedikt, Vienna, and R. Schwartz, Berlin-Wilmersdorf, assignors to Fides Gesellschaft für die Verwaltung und Verwertung von Gewerblichen Schutsrechten mit beschränkter Haftung, Berlin, Germany. Telephone system. 2,278,548; Apr. 7.

Kuhl, Paul E., Madison, N. J., assignor to Standard Oil Development Company. Recovery of hydrocarbons from fuel gases. 2,278,999; Apr. 7.

Kuhl, Robert J., Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y. Shipping container anchor means. 2,278,885; Apr. 7.

Kuhn, Ernst. (See Kallmann, H. I., and Kuhn.)

Kuhnle, Frederick C., Grand Haven, Mich. Plumbing structure. 2,278,789; Apr. 7.

Kumpman, Daniel, Dover, N. J. Thermostatically controlled electrical switch. 2,278,704; Apr. 7.

Kumpman, Daniel, Dover, N. J. Automatic circuit governing device. 2,278,705; Apr. 7.

La Forest, Louis Z. (See Dunning, O. M., and La Forest.)

Langbein, Charles, and C. Gordon, assignors to William Langbein and Brothers, Brooklyn, N. Y. Automatic oiling device. 2,278,886; Apr. 7.

Langbein-Pfanhauser-Werke Aktiengesellschaft. (See Egli, A. A., and Bökenkamp, assignors.)

Langbein, William, and Brothers. (See Langbein, C., and Gordon, assignors.)

Langmaid, Charles T., Detroit, Mich. Fastening device. 2,278,790; Apr. 7.

Langner, Heinrich. (See Döhle, H., and Langner, and Schramm.)

Larson, Leon H., Hamden, Conn. Cooking. 2,279,000; Apr. 7.

Larson, Nels, assignor to Duner Co., Chicago, Ill. Water closet. 2,278,887; Apr. 7.

Larson, Selmer A., Newgulf, Tex. Piston. 2,279,238; Apr. 7.

La Salle Mortgage & Discount Company. (See Thellgaard, Holger, assignor.)

Laufersweiler, William J., and R. E. Thompson, assignors to The Kinnear Manufacturing Company, Columbus, Ohio. Device to motivate roller carriages on overhead tracks. 2,278,706; Apr. 7.

Lavarack, Frederick C., Montclair, N. J., and E. M. Deems, Forest Hills, assignors to Railroad Accessories Corporation, New York, N. Y. Rail bond. 2,278,659; Apr. 7.

Le Blond, R. K., Machine Tool Company, The. (See Groene, Willard L., assignor.)

Lee, Donald D. (See Loder, Donald J.)

Lee, Harley C., Columbus, Ohio, assignor, by mesne assignments, to Basic Refractories, Incorporated, Cleveland, Ohio. Manufacture of basic refractories. 2,278,454; Apr. 7.

Lee, Milton W., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Process and catalyst for conversion of normal paraffins. 2,278,934; Apr. 7.

Lehmann, Gerard, Paris, France. Radiogoniometer. 2,278,660; Apr. 7.

Lenning, Alvar, Stockholm, Sweden, assignor, by mesne assignments, to Servel, Inc., Dover, Del. Refrigerator. 2,279,050; Apr. 7.

Lenning, Alvar, and P. P. Standberg, Stockholm, Sweden, assignors, by mesne assignments, to Servel, Inc., New York, N. Y. Refrigeration. 2,278,661; Apr. 7.

Leo, Charlotte E., administratrix. (See Leo, Norton B.)

Leo, Norton B., deceased, Yonkers, by C. E. Leo, Tuckahoe, administratrix, assignor to Heat-Pump Corporation, New York, N. Y. Liquid heater. 2,278,619; Apr. 7.

Leslie Company. (See Soderberg, Sten E. B., assignor.)

Letterman, Louis. (See Graham, Harold J., assignor.)

Levine, Abraham, Elizabeth, assignor to Presto Lock Corporation, Garfield, N. J. Garment carrying fixture for luggage. 2,278,935; Apr. 7.

Lewis, Bennett, Madison, Ind. Forming sinusoidal grooves. 2,278,791; Apr. 7.

Lewis, Everett V., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Artificial structure and processes for producing same. 2,278,888; Apr. 7.

Lewis, Lloyd V., Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa. Remote control system. 2,279,123; Apr. 7.

Libbey-Owens-Ford Glass Company. (See Drake, J. L., and Watkins, assignors.)

Libbey-Owens-Ford Glass Company. (See Lowry, Clyde D., assignor.)

Libbey-Owens-Ford Glass Company. (See Putnam, Erie T., assignor.)

Libbey-Owens-Ford Glass Company. (See Ryan, Joseph D., assignor.)

Liess, Edward T. (See Bauberger, C. W., and Liess.)

Lincoln, Bert H. (See Davis, L. L., Lincoln, and Byrkit.)

Lincoln Engineering Company. (See Barks, F. S., Rotter, and Klein, assignors.)

Lincoln Engineering Company. (See Schneller, Rudy F., assignor.)

Linde Air Products Company, The. (See Shrubsall, Harry, assignor.)

Lindsay, Maxwell H. A., Summit, N. J., and H. J. Pearson, New York, N. Y., assignors to American District Telegraph Company, Jersey City, N. J. Radiant energy receiving system. 2,278,936; Apr. 7.

Linzell, Harry K., Ingleside, and J. W. Gill, Elmhurst, assignors to United States Gypsum Company, Chicago, Ill. Fire resistant composition. 2,278,455; Apr. 7.

Liquid Carbonic Corporation, The. (See Kantor, James, assignor.)

Lisbon, Sigmund, F. (See Zeller, T. J., and Lisbon.)

Loder, Donald J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Hydrogenation of acyl-substituted compounds. 2,278,549; Apr. 7.

Loder, Donald J., and D. D. Lee, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of alkali metal alkoxides. 2,278,550; Apr. 7.

Lodge, Alvin, Meadville, Pa., assignor to American Viscose Corporation, Wilmington, Del. Device for cutting filamentary material. 2,278,662; Apr. 7.

Loeffler, Bruno, West New York, and G. B. Martin, Plainfield, N. J., assignors to Mack Manufacturing Corporation, Long Island City, N. Y. Clutch throw-out bearing. 2,278,663; Apr. 7.

Lohr, Raymond J., Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Toy piano. 2,279,143; Apr. 7.

Lohr, Raymond J., Rantoul, Ill., assignor to Louis Marx & Company, Inc., New York, N. Y. Toy piano. 2,279,144; Apr. 7.

Loiseleur, Jean, assignor to Societe Anonyme des Manufactures des Glaces & Products Chimiques De Saint Gobain, Chauny & Cirey, Paris, France. Metallic coating. 2,278,722; Apr. 7.

Lowry, Clyde D., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Door or window frame construction. 2,279,171; Apr. 7.

Lubushkin, Pelagea, et al. (See Kaloshin, Dmitir A., assignor.)

Luhrs, John F., Cleveland Heights, Ohio, assignor to Bailey Meter Company. Specific gravity measurement device. 2,279,255; Apr. 7.

Lummus Company, The. (See Jacocks, George T., assignor.)

Lundberg Exploration S. A. (See Zuschlag, Theodor, assignor.)

Lundeen, Chester A. (See Grau, H. E., and Lundeen.)

Luttgens, Everett P., Elizabeth, assignor to Diamond Expansion Bolt Company, Garwood, N. J. Safety percussion drill holder and article. 2,278,707; Apr. 7.

Mack Manufacturing Corporation. (See Loeffler, B., and Martin, assignors.)

Mack Manufacturing Corporation. (See Zeller, T. J., and Lisbon, assignors.)

Mackintosh, Donald, Calgary, Alberta, Canada. Camera attachment. 2,278,937; Apr. 7.

MacNeil, Charles I., Glen Ridge, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Valve mechanism. 2,279,002. Apr. 7.

Madaras, Andrew, Chicago, Ill. Hair curler rod. 2,278,456; Apr. 7.

Maerkisch, Gerhard, Leipzig, Germany, assignor to General Electric Company. Protective device. 2,279,051; Apr. 7.

Magee, Robert B. (See Corbett, J. M., and Magee.)

Magnavox Company, The. (See Freimann, Frank, assignor.)

Maiuri, Guido, Aldwych, London, England. Refrigerating machines arranged in cascade relationship. 2,278,889; Apr. 7.

Malsbary, Job F., and W. W. Taylor, Oakland, Calif. Liquid mixer. 2,278,723; Apr. 7.

Mann, Miles H., West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,278,724; Apr. 7.

Marasco, Martin, New Brunswick, N. J., assignor to Du Pont Film Manufacturing Corporation, New York, N. Y. Nonhalation photographic element. 2,278,457; Apr. 7.

Mark, Jacob G., Cambridge, assignor to Dewey and Almy Chemical Company, North Cambridge, Mass. Adhesive composition. 2,279,256; Apr. 7.

Markey, Roscoe I., East Orange, assignor to Pollak Manufacturing Company, Arlington, N. J. Exhaust manifold support pipe clamp. 2,279,090; Apr. 7.

Martin, Frank S., Providence, R. I., assignor to United States Rubber Company, New York, N. Y. Method of making ball centers and article. 2,278,551; Apr. 7.

Martin, Glenn L., Company. (See Overbeke, John W., assignor.)

Martin, Glenn L., Company, The. (See Veit, Herman E., assignor.)

Martin, Joseph, Laurelton, assignor to United States Cabinet Bed Co., Brooklyn, N. Y. Combination seat and interchangeable back. 2,278,458; Apr. 7.

Marx, Louis, & Company. (See Lohr, Raymond J., assignor.)

Matheson, George L., Union, and B. Rosen, Elizabeth, N. J., assignors to Standard Oil Development Company. Flushing oil. 2,279,001; Apr. 7.

Matush, Milan A., assignor to A. O. Smith Corporation, Milwaukee, Wis. Hard facing material and making the same. 2,279,003; Apr. 7.

Maurer, Gottfried, Zurich, assignor to the firm A. Muller & Cie Maschinenfabrik und Eisengiesserei Aktiengesellschaft, Brugg, Switzerland. Conveying device. 2,278,552; Apr. 7.

Max, Nicholaas. (See van Peski, A. J., Max and van Melsen.)

May, Adam J., Rochester, N. Y., assignor to Ritter Company, Inc. Dental chair and the like. 2,278,890; Apr. 7.

Mayne, William H., assignor to O. S. Petty, San Antonio, Tex. Oscillograph. 2,279,124; Apr. 7.

Mayner, Stanley, Cleveland Heights, Ohio. Control mechanism. 2,279,172; Apr. 7.

McAdams, Frederick H., et al, Trustees. (See Birchall, Joseph C., assignor.)

McAdams, Frederick H. (See Kent, Everett E., assignor.)

McCashen, James F., Cleveland Heights, assignor to Rotary Cutters, Inc., Cincinnati, Ohio. Cutting materials. 2,278,459; Apr. 7.

McClellan, Marcus E., assignor to Dain Manufacturing Company, of Iowa, Ottumwa, Iowa. Ratchet lever. 2,279,004; Apr. 7.

McCutcheon, Raymond, Chicago, Ill. Electric plug. 2,279,173; Apr. 7.

McDonald, John C., assignor to The Dow Chemical Company, Midland, Mich. Magnesium base alloy. 2,278,725; Apr. 7.

McDonald, John C., assignor to The Dow Chemical Company, Midland, Mich. Magnesium base alloy. 2,278,726; Apr. 7.

McFarland, Samuel E., Los Angeles, Calif. Relay system. 2,278,727; Apr. 7.

McKay Machine Company. (See Johnston, Dwight A., assignor.)

McKinley, Edwin W., Los Angeles, Calif. Fluid pressure regulator. 2,278,728; Apr. 7.

McMahan, Kenton D., Schenectady, N. Y., assignor to General Electric Company. Door construction. 2,279,005; Apr. 7.

McQuerry, James C., Fort Worth, Tex. Armored ship construction. 2,278,938; Apr. 7.

McWalters, Andrew, Minneapolis, Minn. Outboard motor lock. 2,279,006; Apr. 7.

Meador, Jack R. (See Weed, James M., and Meador.)

Mearns, William C. (See Talbot, A. M., and Mearns.)

Meisel Press Manufacturing Company. (See Nellson, John P. E., assignor.)

Meixell, Oliver S., Verona, N. J., assignor to Radio Corporation of America. Harmonic attenuation filter. 2,278,620; Apr. 7.

Melhose, Alfred E., Westfield, N. J., and W. W. Tuthill, Jackson Heights, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Control system. 2,278,460; Apr. 7.

Mentley, Max B., assignor to National Broach & Machine Company, Detroit, Mich. Gear finishing machine. 2,278,792; Apr. 7.

Menzies, William E. (See Werner, C. J., and Menzies.)

Merla Tool Company of Dallas, Tex. (See Crickmer, Charles S., assignor.)

Merrill, Albert D., Watertown, N. Y. Apparatus for screening pulp. 2,278,729; Apr. 7.

Metal Textile Corporation. (See Hartwell, Ralf L., assignor.)

Meyerhans, August Rieden, near Baden, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. High tension transformer. 2,279,239; Apr. 7.

Michael, Wilhelm, and E. Plauth, Ludwigshafen-on-the-Rhine, Germany, assignors to Standard Catalytic Company. Production of hydrocarbons. 2,279,052; Apr. 7.

Micromatic Hone Corporation. (See Kline, J. E., and Peden, assignors.)

Middleton, Edmund B., Metuchen, N. J., assignor to Du Pont Film Manufacturing Corporation, New York, N. Y. Photographic sensitizing dyes and compositions containing the same. 2,278,461; Apr. 7.

Midland Steel Products Company, The. (See Rylander, Andrew E., assignor.)

Miller, Max C., Cumberland, R. I. Knitting machine. 2,278,522; Apr. 7.

Miller Printing Machinery Co. (See Jenner, Arthur J., assignor.)

Miller, William H., Royal Oak, assignor to The Flex-O-Tube Company, Detroit, Mich. Method of making fastening devices. 2,278,708; Apr. 7.

Milton, Alonzo L. (See Kenney, J. S., and Milton.)

Miner, John D., Jr., Lima, Ohio, and W. Schaelchlin, Wilkinsburg, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Vibrating-contact motor. 2,279,240; Apr. 7.

Minneapolis-Honeywell Regulator Company. (See Sparrow, H. T., and Wilson, assignors.)
Mintzes, Louis, Brooklyn, N. Y. Garment. 2,279,125; Apr. 7.
Mitchell, Malcolm E., assignor of one-half to M. M. Weinberg, Oakland, Calif. Air inflator mechanism. 2,278,664; Apr. 7.
Modlinger, Richard, Berlin, Germany, assignor to General Electric Company. Electric measuring instrument. 2,279,053; Apr. 7.
Moline Malleable Iron Company. (See Hudson, Hill, assignor.)
Molins Machine Company Limited. (See Kidd, David B., assignor.)
Monroe Calculating Machine Company. (See Chase, George C., assignor.)
Montellone, Joseph M., assignor, by mesne assignments, to National Seal Corporation, Brooklyn, N. Y. Closure. 2,278,462; Apr. 7.
Moran, Walter G., Woodbridge, N. J., assignor to National Lead Company, New York, N. Y. Manufacture of titanium dioxide pigments. 2,278,709; Apr. 7.
Morehouse, Eugene, Providence, R. I., assignor to B. A. Ballou & Co., Inc. Pin stem finding. 2,278,523; Apr. 7.
Morgan Construction Company. (See Morgan, W., and Whalen, assignors.)
Morgan, Weld, Worcester, and J. N. Whalen, Boylston, assignors to Morgan Construction Company, Worcester, Mass. Wire drawing apparatus. 2,279,174; Apr. 7.
Morrow, Sat K., Bent County, Colo. Razor hone and holder. 2,278,553; Apr. 7.
Mortley, Wilfrid S., Great Baddow, Chelmsford, England, assignor to Radio Corporation of America. Time delay circuit and relaxation oscillator. 2,279,007; Apr. 7.
Morton, Charles D., assignor to Morton Manufacturing Company, Chicago, Ill. Tread plate. 2,278,554; Apr. 7.
Morton Manufacturing Company. (See Morton, Charles D., assignor.)
Moses, Edmund Q. (See Collins, Allan J., assignor.)
Motor Improvements, Inc. (See Williams, Lewis W., assignor.)
Moulton, Harold R. (See Tillyer, E. D., Moulton, and Gunn.)
Muehter, Manfred W., Nutley, N. J., assignor to American District Telegraph Company, New York, N. Y. Manual fire alarm system. 2,278,939; Apr. 7.
Muench-Kreuzer Candle Co. (See Guilfoil, Oscar D., Jr., assignor.)
Muench-Kreuzer Candle Co. (See Muench, Thomas J., assignor.)
Muench, Thomas J., assignor to Muench-Kreuzer Candle Co., Inc., Syracuse, N. Y. Multiwick floating candle. 2,279,175; Apr. 7.
Muller, A., & Cie Maschinenfabrik und Eisengiesserei Aktiengesellschaft. (See Maurer, Gottfried, assignor.)
Munford, Theodore W., Ottawa Hills, Ohio, assignor to General Properties Company, Inc. Annealing furnace. 2,278,891; Apr. 7.
Murphy, Paul B., South Nyack, N. Y., assignor to Western Electric Company, Incorporated. Picture reproduction. 2,278,940; Apr. 7.
Murray Corporation of America, The. (See Clark, Noble C., assignor.)
Musaphia, Georges, Los Angeles, Calif. Apparatus for making animated motion pictures. 2,279,241; Apr. 7.
Musher, Albert, New York, N. Y., assignor to Musher Corporation, New York, N. Y. Method for preparing dehydrated peas. 2,278,280; Apr. 7.
Musher, Albert, New York, N. Y., assignor, by mesne assignments, to Food Manufacturing Corporation, Chicago, Ill. Expanded food products and producing the same. 2,278,463; Apr. 7.
Musher, Albert, New York, N. Y., assignor, by mesne assignments, to Food Manufacturing Corporation, Chicago, Ill. Medicinal preparation. 2,278,464; Apr. 7.
Musher, Albert, assignor to Musher Corporation, New York, N. Y. Producing prepared cereals, grains, and similar products. 2,278,465; Apr. 7.
Musher, Albert, New York, N. Y., assignor to Musher Corporation, New York, N. Y. Quickly disintegratable bonded food units and methods of making them. 2,278,466; Apr. 7.
Musher, Albert, New York, N. Y., assignor, by mesne assignments, to Food Manufacturing Corporation, Chicago, Ill. Nut. 2,278,467; Apr. 7.
Musher, Albert, New York, N. Y., assignor, by mesne assignments, to Food Manufacturing Corporation, Chicago, Ill. Legume. 2,278,468; Apr. 7.
Musher, Albert, New York, N. Y., assignor, by mesne assignments, to Food Manufacturing Corporation, Chicago, Ill. Fruits and vegetables. 2,278,469; Apr. 7.
Musher, Albert, New York, N. Y., assignor, by mesne assignments, to Food Manufacturing Corporation, Chicago, Ill. Starchy food materials. 2,278,470; Apr. 7.
Musher, Albert, New York, N. Y., assignor, by mesne assignments, to Food Manufacturing Corporation, Chicago, Ill. Cocoa nib. 2,278,471; Apr. 7.
Musher, Albert, New York, N. Y., assignor to Musher Corporation, New York, N. Y. Dehydrated prefrozen food products. 2,278,472; Apr. 7.
Musher, Albert, New York, N. Y., assignor to Musher Corporation, New York, N. Y. Coffee. 2,278,473; Apr. 7.
Musher, Albert, New York, N. Y., assignor, by mesne assignments, to Food Manufacturing Corporation, Chicago, Ill. Tea leaf. 2,278,474; Apr. 7.
Musher, Albert, New York, N. Y., assignor, by mesne assignments, to Food Manufacturing Corporation, Chicago, Ill. Baked beans and similar baked products. 2,278,475; Apr. 7.
Musher, Albert, New York, N. Y., assignor, by mesne assignments, to Food Manufacturing Corporation, Chicago, Ill. Animal protein material. 2,278,476; Apr. 7.
Musher, Albert, New York, N. Y., assignor to Musher Corporation, New York, N. Y. Almonds, peanuts, and other similar nuts. 2,278,941; Apr. 7.
Musher, Albert, New York, N. Y., assignor, by mesne assignments, to Food Manufacturing Corporation, Chicago, Ill. Olive. 2,278,942; Apr. 7.
Musher, Albert, New York, N. Y., assignor to Musher Corporation, New York, N. Y. Cheese composition. 2,279,202; Apr. 7.
Musher, Albert, New York, N. Y., assignor to Musher Corporation, New York, N. Y. Ice cream mixture. 2,279,203; Apr. 7.
Myers, John L., Felicity, Ohio. Dispensing mechanism. 2,278,793; Apr. 7.
Myers, Walter S., North Merchantville, N. J., assignor to United States Pipe and Foundry Company. Centrifugal casting apparatus. 2,278,555; Apr. 7.
Naamlooze Vennootschap: Maatschappij tot Exploitatie van "ten Bosch Octrooien N. V." (See Duden, Gustav, assignor.)
Nagle, Richard E., New York, and L. P. Gaucher, Mount Vernon, assignors, by mesne assignments, to The Texas Company, New York, N. Y. Catalytic apparatus. 2,278,892; Apr. 7.
Nardone, Romeo M., East Orange, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starting mechanism. 2,279,126; Apr. 7.
Nathan, Herbert J., Bismarck, N. Dak. Hydraulic vehicle propulsion system. 2,279,008; Apr. 7.
National Blank Book Company. (See Schade, John, assignor.)
National Broach & Machine Company. (See Mentley, Max B., assignor.)
National Broach & Machine Company. (See Praeg, Walter S., assignor.)
National Geophysical Company. (See Paslay, Le Roy C., assignor.)
National Lead Company. (See Moran, Walter G., assignor.)
National Oil Products Company. (See Segessemann, Ernest, assignor.)
National Paint, Varnish and Lacquer Association, Inc. (See Hoffman, Earl E., assignor.)
National Seal Corporation. (See Montellone, Joseph M., assignor.)
Neal, John B. (See Kent, Everett E., assignor.)
Neal, John B., et al, trustees. (See Birchall, Joseph C., assignor.)
Neilson, John P. E., Quincy, assignor to Meisel Press Manufacturing Company, Boston, Mass. Printing cylinder. 2,279,204; Apr. 7.
Nelson, Bert J. (See Coles, W. H., and Nelson.)
Nelson, Martin L., Park Ridge, Ill. Heat controlling system. 2,279,025; Apr. 7.
Nelson, Nels H., Bellefontaine, Ohio. Polishing apparatus. 2,278,794; Apr. 7.
Neocell Products Corporation. (See Bratring, Kurt, assignor.)
Neuman, Jacob J., assignor to United States Patent Development and Royalty Company, South Salem, N. Y. Apparatus for discharging bins to conveyers. 2,278,730; Apr. 7.
Newton, Daniel O. (See Bertness, T. A., Johnston, and Newton.)
New York Air Brake Company. (See Campbell, Charles A., assignor.)
Nichols, Harry J., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Communication system. 2,279,009; Apr. 7.
Nichols, William M., Auburn, N. Y., assignor to American Locomotive Company, New York, N. Y. Fuel injection apparatus. 2,279,010; Apr. 7.
Nicholson, Joseph, Vineland, N. J. Switch operating mechanism. 2,279,011; Apr. 7.
Nicolle, Arthur V. (See White, P., Dennis, and Nicolle.)
Niemann, Frederick A., assignor to Felt & Tarrant Mfg. Co., Chicago, Ill. Calculating machine. 2,279,054; Apr. 7.
Norcross, Austin S., Waban, Mass. Voltage regulator. 2,278,621; Apr. 7.
Norcross, Austin S., Waban, Mass. Alternating current commutator motor. 2,278,622; Apr. 7.
Northwestern Steel and Wire Company. (See Gaumer, George K., assignor.)
Norton Company. (See Olson, John, assignor.)
Nyberg, Stone, Dover, Ohio, assignor to Agnes J. Reeves Greer, Morgantown, W. Va. Corrugating apparatus. 2,278,477; Apr. 7.
O'Brian, Maurice. (See Kojola, H. V., and O'Brian.)
O'Brien, Frederic L., Rutherford, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Facsimile signal inverter. 2,279,242; Apr. 7.

Odenbach Holding Corporation. (See Odenbach, John H., assignor.)
Odenbach, John H., assignor to Odenbach Holding Corporation, Rochester, N. Y. Ship construction. 2,279,091; Apr. 7.
O'Donnell Shoe Company. (See Siers, Anthony, assignor.)
Oesterreich, Carl E. W., Berlin-Wilmersdorf, Germany. Process for the production of rubber-like binding agent for fibre substances. 2,278,943; Apr. 7.
Ogle, Claude B. (See Berner, L., and Ogle.)
O'Handley, Joseph A. (See Ewaldson, W. C., and O'Handley.)
Old Ben Coal Corporation. (See Campbell, George F., assignor.)
Oliver, Bernard M., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic coil and arrangement utilizing the same. 2,278,478; Apr. 7.
Oliver, Wilbur C., II, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Power brake. 2,279,276; Apr. 7.
Olschewski, Leo, assignor to The Regina Corporation, Rahway, N. J. Can opener. 2,278,731; Apr. 7.
Olson, John, Leicester, assignor to Norton Company, Worcester, Mass. Grinding wheel truing apparatus. 2,279,092; Apr. 7.
Orbeck, Elnar M., West Hartford, assignor, by mesne assignments, to Veeder-Root Incorporated, Hartford, Conn. Recording apparatus. 2,279,288; Apr. 7.
Orr, Alfred R., Cripple Creek, Colo. Gauge for determining valve clearance. 2,278,710; Apr. 7.
Orr, Palmer, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Centrifugal positive clutch. 2,278,623; Apr. 7.
Orr, William T., et al. (See Turney, Eugene T., assignor.)
Osterholm, William C., Oak Park, Ill. Friction clutch. 2,278,556; Apr. 7.
Overbeke, John W., Anneslie, assignor to The Glenn L. Martin Company, Baltimore, Md. Aircraft construction. 2,278,557; Apr. 7.
Packchanian, Ardzroony, Washington, D. C. Supporting and holding device for animals. 2,279,012; Apr. 7.
Packer, Lewis C., Longmeadow, and E. C. Taner, Springfield, Mass., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Motor-driven mechanism. 2,278,624; Apr. 7.
Page, John E., Sydney, New South Wales, assignor to Gibson Patent Containers, Ltd., Sydney, New South Wales, Australia. Conical container and method of making same. 2,279,289; Apr. 7.
Palmer, B. J. (See Schensted, Roy E., assignor.)
Pancake, Herman H., Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y. Spring mounted mine car. 2,278,893; Apr. 7.
Panoramic Radio Corporation. (See Wallace, Marcel, assignors.)
Pardee, Harvey S., Ravinia, Ill. Hydraulic control. 2,279,176; Apr. 7.
Parker, Arthur L., Cleveland, Ohio. Tube coupling. 2,278,479; Apr. 7.
Parker Pen Company, The. (See Baker, Marlin S., assignor.)
Parker, Thomas L., assignor to The Standard Electric Manufacturing Co., Chicago, Ill. Packing articles. 2,278,524; Apr. 7.
Parrott, Loretta, et al. (See Parrott, Percy F., assignor.)
Parrott, Marjorie J., et al. (See Parrott, Percy F., assignor.)
Parrott, Percy F., Toledo, Ohio, assignor of one-half to L. Parrott, and one-half to M. J. Parrott. Vehicle elevating means. 2,279,127; Apr. 7.
Parsons, Clinton H., and E. C. Scott, assignors to Industrial Patents Corporation, Chicago, Ill. Ice cream. 2,279,205; Apr. 7.
Parsons, John B., Toledo, Ohio. Solenoid actuated valve. 2,279,243; Apr. 7.
Parsons, John S., Swissvale, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Network system of distribution. 2,279,244; Apr. 7.
Parsons, Joseph R., assignor to United States Gypsum Company, Chicago, Ill. Insulating building structure. 2,278,732; Apr. 7.
Paslay, Le Roy C., assignor to National Geophysical Company, Dallas, Tex. Signal control. 2,279,128; Apr. 7.
Patten, Charles H. (See Traylor, S. W., and Patten.)
Patton, James F., Cleveland, Ohio. Hydraulic pump. 2,278,795; Apr. 7.
Paul, Philip T., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Treatment of rubber. 2,278,558; Apr. 7.
Paul, Philip T., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Alkenyloxy diarylamines. 2,278,559; Apr. 7.
Paulsen, Henry C., Elizabeth, N. J., assignor to Standard Oil Development Company. Refining petroleum oil. 2,278,665; Apr. 7.
Paulson, Nils I., assignor, by mesne assignments, to Elgo Plastics, Inc., Chicago, Ill. Toy building block. 2,278,894; Apr. 7.
Payne, William H., La Grange, Ill. Automatically controlling the electrodes of arc furnaces. 2,278,480; Apr. 7.
Pearson, Howard J. (See Lindsay, M. H. A., and Pearson.)
Peden, Douglas T. (See Kline, J. E., and Peden.)
Peik, Paul G., Detroit, Mich., assignor to Emulsions Process Corporation, New York, N. Y. Sound deadener. 2,278,733; Apr. 7.
Pennington, John V., assignor to Reed Roller Bit Company, Houston, Tex. Drill bit. 2,279,129; Apr. 7.
Peremi, Edmund, Manhasset, and L. Toth, Flushing, N. Y. Window construction. 2,278,666; Apr. 7.
Permatex Company. (See Camp, Thomas L., assignor.)
Perry, Gilbert, Brewster, N. Y. Mason's line holder. 2,278,735; Apr. 7.
Perry, Leslie K., Palms, Calif. Lamp. 2,278,734; Apr. 7.
Peters, Louis, Houston, Tex. Vending machine. 2,279,093; Apr. 7.
Peters, Melville F., Beltsville, Md., and G. F. Blackburn, Washington, D. C. Condenser discharge ignition system. 2,278,481; Apr. 7.
Peters, Wilhelm, assignor tot Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Antenna. 2,278,560; Apr. 7.
Petersen, Carl G., Bismarck, N. Dak. Milk sediment tester. 2,278,667; Apr. 7.
Peterson, Eric W., Oak Park, Ill., assignor to Remington Arms Company, Inc. Automatic finishing machine. 2,278,584; Apr. 7.
Petrolite Corporation, Ltd. (See De Groote, M., and Keiser, assignors.)
Petty, Olive S. (See Mayne, William H., assignor.)
Pfeffer, William E. (See Klein, M., and Pfeffer.)
Phelps, Horace F., Montgomery, Ala. Package. 2,279,245; Apr. 7.
Philadelphia Thermometer Company. (See Schwartz, John L., assignor.)
Phillips Petroleum Company. (See Bergen, Daniel E., assignor.)
Piety, Raymond G., Bartlesville, Okla., assignor to Radio Corporation of America. Demodulation of frequency modulated oscillations. 2,278,668; Apr. 7.
Pimenoff, Paul, et al. (See Kaloshin, Dmitri A., assignor.)
Pinell, Walter, Falkensee, assignor to "Fides Gesellschaft für die Verwaltung und Verwertung von gewerblichen Schutzrechten mit beschränkter Haftung," Berlin, Germany. Telephone system. 2,278,585; Apr. 7.
Piron, Emil H., New York, N. Y., and C. F. Hirshfeld, Detroit, Mich., assignors to The Transit Research Corporation, New York, N. Y. Elastic spring and resilient wheel. 2,278,711; Apr. 7.
Piron, Emil H., assignor to Transit Research Corporation, New York, N. Y. Super resilient wheel. 2,278,712; Apr. 7.
Pishvanov, Alexander M., Hempstead, N. Y., assignor to Republic Aviation Corporation. Aircraft armament. 2,278,482; Apr. 7.
Plebanski, Jozef, Warsaw, Poland. Superheterodyne receiving system. 2,279,177; Apr. 7.
Plews, William J., Chicago, Ill., assignor to Food Manufacturing Corporation. Treating cacao beans. 2,278,483; Apr. 7.
Plews, William J., Chicago, Ill., assignor to Food Manufacturing Corporation. Green and yellow pea. 2,278,484; Apr. 7.
Podliasky, Ilia, Asnieres, and A. Guerbilsky, Paris, France. Visual direction-finding system. 2,279,246; Apr. 7.
Poggensee, Edward B., Chicago, Ill. Carpet sweeper. 2,278,736; Apr. 7.
Pohm, George H., Olmsted Falls, Ohio, assignor of one-half to E. M. Heavens, and one-half to Cosman P. Stocker. Frequency changing device. 2,278,669; Apr. 7.
Pollack, Dale, Haddon Heights, N. J., assignor to Radio Corporation of America. High frequency grid modulator. 2,279,056; Apr. 7.
Polak Manufacturing Company. (See Markey, Roscoe I., assignor.)
Poole, Roy B. (See Samiran, D., and Poole.)
Pope, Claude E., Oakland, Calif. Foldable crate. 2,279,247; Apr. 7.
Porsche, F., Dr. ing. h. c., K.-G. (See Schmitt, Karl, assignor.)
Potter, Charles E., Richmond Heights, Mo. Infant's drinking cup. 2,278,586; Apr. 7.
Potts, Louis M., Evanston, assignor to Teletype Corporation, Chicago, Ill. Photoelectric transmitter. 2,278,485; Apr. 7.
Praeg, Walter S., assignor to National Broach & Machine Company, Detroit, Mich. Rotary finishing cutter. 2,278,737; Apr. 7.
Praeg, Walter S., assignor to National Broach & Machine Company, Detroit, Mich. Cutter. 2,278,738; Apr. 7.
Pratt, Annette H., administratrix. (See Pratt, William B., deceased.)
Pratt, William B., Boston, Mass., deceased; A. H. Pratt, administratrix. Detergent composition. 2,279,248; Apr. 7.
Pray, Thomas E., assignor to Goodman Manufacturing Company, Chicago, Ill. Slack or cuttings removing attachment for kerf-cutting machines of the room and pillar type. 2,278,796; Apr. 7.
Prescott, Harold R. (See Crawford, J. M., and Prescott.)
Prest-O-Lite Company. (See Kojola, H. V., and O'Brian, assignors.)
Presto Lock Corporation. (See Levine, Abraham, assignor.)

Preston, George L., Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y. Milling machine attachment. 2,278,897; Apr. 7.
Priessman, Neil Y. (See Bascom, H. M., Bowne, and Priessman.)
Prismo Holding Corporation. (See Rodli, G., and Wilson, assignors.)
Prosperity Company, The. (See Davis, Ernest, assignor.)
Putnam, Erle T., Detroit, Mich., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Mold for making curved composite building blocks. 2,279,178; Apr. 7.
Quigley Company. (See Quigley, W. S., and Coutant, assignors.)
Quigley, Winfred M., and E. S. Taylerson, Pittsburgh, Pa., assignors to Carnegie-Illinois Steel Corporation. Brushing apparatus for metallic strip. 2,278,944; Apr. 7.
Quigley, Wirt S. and J. G. Coutant, assignors to Quigley Company, Inc., New York, N. Y. Cellular refractory. 2,278,486; Apr. 7.
Radio Corporation of America. (See Bond, Donald S., assignor.)
Radio Corporation of America. (See Brown, George H., assignor.)
Radio Corporation of America. (See Brown, G. H., and Epstein, assignors.)
Radio Corporation of America. (See Cockerell, C. S., and Robb, assignors.)
Radio Corporation of America. (See Cooper, P. G., and Tuska, assignors.)
Radio Corporation of America. (See Crosby, Murray G., assignor.)
Radio Corporation of America. (See Hansell, Clarence W., assignor.)
Radio Corporation of America. (See Kamenarovic, Lav, assignor.)
Radio Corporation of America. (See Kroger, Fred H., assignor.)
Radio Corporation of America. (See Meixell, Oliver S., assignor.)
Radio Corporation of America. (See Mortley, Wilfrid S., assignor.)
Radio Corporation of America. (See Piety, Raymond G., assignor.)
Radio Corporation of America. (See Pollack, Dale, assignor.)
Radio Corporation of America. (See Reid, John D., assignor.)
Radio Corporation of America. (See Rust, N. M., Brailsford, and Goodenough, assignors.)
Radio Corporation of America. (See Smith, Newell R., assignor.)
Radio Corporation of America. (See Tellegen, Bernardus D. H., assignor.)
Radio Corporation of America. (See Winlund, Edmond S., assignor.)
Radio Corporation of America. (See Wolfe, Wallace V., assignor.)
Rady, William J., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Horn motor and relay unit. 2,278,561; Apr. 7.
Railroad Accessories Corporation. (See Lavarack, F. C., and Deems, assignors.)
Rákos, Alexander, Vienna, Austria. Electrical welding. 2,278,487; Apr. 7.
Ralston, Glenn S., assignor to Servisoft, Inc., Rockford, Ill. Water treating apparatus. 2,278,488; Apr. 7.
Randall, Norman E., Shannock, R. I., assignor to Columbia Narrow Fabric Company. Fabric for garment edging. 2,279,206; Apr. 7.
Rauer, Philip, New York, N. Y. Preparing protein material. 2,278,670; Apr. 7.
Rawlings, George W., Kenilworth, England. Magneto-electric machine. 2,278,489; Apr. 7.
Raymond, Arthur E., West Los Angeles, assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. Airplane. 2,278,562; Apr. 7.
Raymond, Harold E. New Orleans, La. Building construction. 2,278,797; Apr. 7.
Raytheon Manufacturing Company. (See Dawson, John W., assignor.)
Raytheon Manufacturing Company. (See Klemperer, Hans, assignor.)
Reason, Richard E., and T. W. Clifford, assignors to Kapella Limited, Leicester, England. Micrometer adjustment device. 2,278,945; Apr. 7.
Recht, William, Woodmere, assignor to General Printing Ink Corporation, New York, N. Y. Coating machine for coating sheets of material. 2,278,563; Apr. 7.
Reconstruction Finance Corporation. (See Curry, Joe G., assignor.)
Redler Conveyor Company. (See Sinden, Alfred D., assignor.)
Redmond, John C. (See Hodil, R. W., and Redmond.)
Reed Roller Bit Company. (See Harrington, G. G., Stokes, and Emrick, assignors.)
Reed Roller Bit Company. (See Fortune, J. C., and Brown, assignors.)
Reed Roller Bit Company. (See Pennington, John V., assignor.)
Reed, Warren B., New Orleans, La. Hydropneumatic power unit. 2,279,057; Apr. 7.
Reeves, Paul B., assignor to Reeves Pulley Company, Columbus, Ind. Speed-varying drive. 2,278,739; Apr. 7.
Reeves Pulley Company. (See Reeves, Paul B., assignor.)
Regina Corporation, The. (See Olschewski, Leo, assignor.)
Reid, John D., Philadelphia, Pa., assignor to Radio Corporation of America. Detector for frequency modulation signals. 2,279,058; Apr. 7.
Reid, Raymond A., Cedar Rapids, Iowa. Sanding machine. 2,278,564; Apr. 7.
Reistad, Bengt, Stockholm, Sweden, assignor, by mesne assignments, to Servel, Inc., New York, N. Y. Refrigeration. 2,279,059; Apr. 7.
Remington Arms Company, Inc. (See Brun, Willi, assignor.)
Remington Arms Company. (See Gaskill, C. E., and Hackman, assignors.)
Remington Arms Company. (See Peterson, Eric W., assignor.)
Remington Arms Company. (See Roeder, E. M., and Simonson, assignors.)
Remington Arms Company. (See Rutherford, Peter B., assignor.)
Republic Aviation Corporation. (See Pishvanov, Alexander M., assignor.)
Riccardi, Aristide, Rome, Italy, assignor to D. M. Seaman, New York, N. Y. Gas producer apparatus. 2,278,798; Apr. 7.
Riccardi, Aristide, Rome, Italy, assignor to D. M. Seaman, New York, N. Y. Gun. 2,278,799; Apr. 7.
Rich, Henry S., Jr. (See Weien, Paul, assignor.)
Rich, John P., and E. R. Burling, assignor to Improved Paper Machinery Corporation, Nashua, N. H. Conveyer and coucher belt process and machine for thickening pulp. 2,278,525; Apr. 7.
Rich, John P., assignor to Improved Paper Machinery Corporation, Nashua, N. H. Method of and apparatus for couching. 2,278,526; Apr. 7.
Richard, Harry F. A., and A. R. Evett, Norfolk, Va. Article elevating machine. 2,278,946; Apr. 7.
Richards, James V., as trustee. (See Wilcox, William D., assignor.)
Richards, Oscar W. (See Critoph, D. I., Schrader and Richards.)
Riddle, William J., Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Hydraulic cutting machine. 2,278,713; Apr. 7.
Riester, Oskar, Dessau, Germany, assignor to General Aniline & Film Corporation, New York, N. Y. Photographic silver halide emulsions. 2,278,947; Apr. 7.
Rightmyer, Holden W., Toledo, assignor to The American Swiss Company, Toledo, Ohio. Automobile door latch. 2,279,290; Apr. 7.
Rimbach, Henry W. (See Hasslacher, C. A., and Rimbach.)
Rimbach, Henry W., East Orange, N. J., assignor to Technico, Incorporated, New York, N. Y. Thermostatic switch. 2,279,060; Apr. 7.
Rittenhouse, A. E., Co., The. (See Rittenhouse, Lloyd, assignor.)
Rittenhouse, Lloyd, assignor to The A. E. Rittenhouse Co., Inc., Honeoye Falls, N. Y. Chime signal. 2,278,587; Apr. 7.
Ritter Company, Inc. (See May, Adam J., assignor.)
Robb, John G. (See Cockerell, C. S., and Robb.)
Robison, Clinton S., Chicago, Ill. Apparatus for making salt. 2,279,061; Apr. 7.
Rockwood & Co. (See Cyphers, J. F., Scheu and Jones, assignors.)
Rodanet, Charles H. H., Neuilly-sur-Seine, assignor to Société Anonyme: Etablissements Ed. Jaeger, Levallois-Perret (Seine), France. Device for verifying the dimension and sphericity of balls. 2,278,800; Apr. 7.
Roder, Hans, Schenectady, N. Y., assignor to General Electric Company. High frequency signaling system. 2,279,062; Apr. 7.
Rodli, Gilbert, and R. W. Wilson, Huntingdon, Pa., assignors, by mesne assignments, to Prismo Holding Corporation, New York, N. Y. Surface marking apparatus. 2,278,948; Apr. 7.
Roeder, Everett M., Merrick, and W. Simonson, Mineola, N. Y., assignors to Remington Arms Company, Inc. Release mechanism. 2,278,588; Apr. 7.
Roediger, Joseph C., Brooklyn, N. Y., assignor to Standard Oil Development Company. Asphalt manufacture. 2,278,671; Apr. 7.
Roessler, Amandus C., Berea, assignor to Bosec Company, Limited, Cuyahoga County, Ohio. Rotary pump. 2,278,740; Apr. 7.
Rogers, Donald A. (See Grossmann, S. W., and Rogers.)
Rogers, Walter F., Oak Park, assignor to Crown Stove Works, Cicero, Ill. Stove construction. 2,279,063; Apr. 7.
Roman, Walter G., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Spark gap device. 2,279,249; Apr. 7.
Rosaire, Esme E. (See Horvitz, Leo, assignor.)
Rose, John J., Dayton, Ohio. Ignition system. 2,278,490; Apr. 7.
Rose, William H., Jersey City, N. J., assignor to Stanco Incorporated. Liquid sprayer. 2,278,672; Apr. 7.
Roseby, Philip N., Woodvale, near Southport, assignor to Automatic Telephone & Electric Company Limited, London, England. Method of producing nickel iron powder. 2,279,013; Apr. 7.
Rosen, Raphael. (See Matheson, G. L., and Rosen.)
Rossander, Swanie S., and C. E. Sparks, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Azo dyes. 2,278,491; Apr. 7.

Rossander, Swanie S., and C. E. Sparks, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Pentakisazo dyes. 2,278,492; Apr. 7.
Rotary Cutters, Inc. (See McCashen, James F., assignor.)
Rotter, Lutwin C. (See Barks, F. S., Rotter, and Klein.)
Rover Company Limited, The. (See Scott-Iversen, Poul A., assignor.)
Royal Typewriter Company. (See Kittel, John J., assignor.)
Rugeley, Edward W., T. A. Feild, Jr., and J. F. Conlon, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Composite material. 2,278,895; Apr. 7.
Rugeley, Edward W., T. A. Feild, Jr., and J. F. Conlon, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Composite material. 2,278,896; Apr. 7.
Rust, Frederick F., and W. E. Vaughan, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Halo-substitution of unsaturated organic compounds. 2,278,527; Apr. 7.
Rust, Nöel M., Chelmsford, J. D. Brailsford, London, and E. F. Goodenough, Springfield, Chelmsford, England, assignors to Radio Corporation of America. Band pass filter. 2,278,801; Apr. 7.
Rustless Iron and Steel Corporation. (See Schaufus, Henry S., assignor.)
Rutenber, Edwin A., assignor to Gibson Electric Refrigerator Corporation, Greenville, Mich. Electric range. 2,279,064; Apr. 7.
Rutherford, Peter B., Bridgeport, Conn., assignor to Remington Arms Company, Inc. Firearm. 2,278,589; Apr. 7.
Ruthruff, Robert F., Chicago, Ill. Catalytic cracking of hydrocarbons. 2,278,590; Apr. 7.
Ryan, Joseph D., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Laminated safety glass and plastic therefor. 2,279,145; Apr. 7.
Rylander, Andrew E., Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio. Portable rivet heading tool. 2,278,741; Apr. 7.
Sabini, Frederick, Salem, N. J. Irritant gas bomb discharge means. 2,278,949; Apr. 7.
Saf-T-Pop Corporation. (See Spohr, C. W., and Bracke, assignors.)
St. George, Walter E., Rochester, Minn. Automobile starting and accessory circuit. 2,278,745; Apr. 7.
St. Pierre, Eugene, Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Knitted fabric. 2,278,904; Apr. 7.
Sak, Anthony F., Bernardston, Mass. Exercising device. 2,278,591; Apr. 7.
Salkeld, Charles E. (See Baldwin, A. W., Evans, and Salkeld.)
Samiran, David, and R. B. Poole, Dayton, Ohio. Hydraulic drive fuel system. 2,278,493; Apr. 7.
Sanders, Vernon H., N. J. Schaberl and E. I. Shobert, II., St. Marys, assignors to Stackpole Carbon Company, St. Marys, Pa. Contact element. 2,278,592; Apr. 7.
Sarbach, Donald V., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Composite product comprising natural rubber and synthetic rubber and method for making the product. 2,278,802; Apr. 7.
Savada, Martin, and W. Horowitz, New York, N. Y. Adhesive coated sheet material. 2,278,673; Apr. 7.
Savage, Albert B. (See Gibb, D. L., and Savage.)
Sawyer Electrical Manufacturing Company. (See Sawyer, Marion B., assignor.)
Sawyer, Marion B., assignor to Sawyer Electrical Manufacturing Company, Los Angeles, Calif. Electromagnetic apparatus. 2,279,014; Apr. 7.
Schaberl, Norbert J. (See Sanders, V. H., Schaberl, and Shobert, II.)
Schade, John, assignor to National Blank Book Company, Holyoke, Mass. Loose-leaf binder. 2,278,565; Apr. 7.
Schaelchlin, Walter. (See Miner, J. D., Jr., and Schaelchlin.)
Schaible, Michael F., Cincinnati, Ohio. Drain fitting. 2,278,566; Apr. 7.
Schaufus, Henry S., Baltimore, Md., assignor to Rustless Iron and Steel Corporation. Working steel and products thereof. 2,278,494; Apr. 7.
Schaufus, Henry S., assignor to Rustless Iron and Steel Corporation, Baltimore, Md. Working steel and products thereof. 2,278,495; Apr. 7.
Schellenger, Newton C., El Paso, Tex., assignor to Chicago Telephone Supply Company, Elkhart, Ind. Switch construction. 2,279,065; Apr. 7.
Scheller, Wilhelm, Senzig, near Königswusterhausen, assignor to "Fides" Gesellschaft für die Verwaltung und Verwertung von gewerblichen Schutzrechten mit beschränkter Haftung, Berlin, Germany. Telephone system. 2,278,593; Apr. 7.
Schenk, Adelbert J., assignor to The Alvey-Ferguson Company, Cincinnati, Ohio. Barrel conveyer. 2,279,207; Apr. 7.
Schensted, Roy E., Clarion, assignor of one-half to B. J. Palmer, Scott County, Iowa. Method of photographing and projecting stereoscopic motion pictures in natural color with the use of color corrected black and white film. 2,279,281; Apr. 7.
Scheu, George. (See Cyphers, J. F., Scheu, and Jones.)
Schlenker, Max, Peru, Ill., assignor to General Time Instruments Corporation, New York, N. Y. Electric clock. 2,279,015; Apr. 7.
Schmitt, Herman H. (See Kalischer, P. R., and Schmitt.)
Schmitt, Karl, Stuttgart-Degerloch, assignor to Dr. Ing. h. c. F. Porsche K.-G., Stuttgart-Zuffenhausen, Germany. Electrical distribution system. 2,278,496; Apr. 7.
Schneider, Kurt R. (See Fitch, C. J., and Schneider.)
Schneller, Rudy F., assignor to Lincoln Engineering Company, St. Louis, Mo. Coupler. 2,279,146; Apr. 7.
Schofield, Cecil S., London, England. Camouflage material. 2,278,898; Apr. 7.
Schofield, Frank McG. (See Henke, C. O., and Schofield.)
Schorer, Herman, Valhalla, assignor to Borsari Tank Corporation of America, New York, N. Y. Manhole device. 2,278,899; Apr. 7.
Schrader, Henry S. (See Critoph, D. I., Schrader, and Richards.)
Schramm, Wilhelm. (See Dohle, H., Langner, and Schramm.)
Schreyer, Edward P., Milwaukee, Wis. Electric iron and dampener. 2,279,179; Apr. 7.
Schuermans, Maurice, and A. Baret, Brussels, Belgium. Device for identification of vehicles. 2,278,567; Apr. 7.
Schwarc, Laszlo. (See Gaspar, B., and Schwarc.)
Schwartz, John L., assignor to Philadelphia Thermometer Company, Philadelphia, Pa. Hydrometer. 2,278,497; Apr. 7.
Schwartz, Roman. (See Kudran, B., and Schwartz.)
Scott, Everette C. (See Parsons, Clinton H., and Scott.)
Scott, Gherald D., G. A. Whittemore, and F. A. Glendon, assignors to The Heald Machine Company, Worcester, Mass. Retracting mechanism for boring tools. 2,279,250; Apr. 7.
Scott-Iversen, Poul A., assignor to The Rover Company, Limited, Coventry, England. Friction brake. 2,279,251; Apr. 7.
Scott, William J., and J. T. Anderson, Rugby, England, assignors to General Electric Company. Method of forming luminescent screens. 2,278,742; Apr. 7.
Screw Conveyor Corporation. (See Kozak, J. L., and Abrahams, assignors.)
Seaman, D. M. (See Riccardi, Aristide, assignor.)
Sears, Clarence M., Ayer, Mass. Constant flow valve. 2,279,066; Apr. 7.
Seeger, Edwin W. (See Baer, W. O., and Seeger.)
Segessemann, Ernest, Newark, assignor to National Oil Products Company, Harrison, N. J. Processing of tall oil. 2,278,674; Apr. 7.
Segre, Massimo, New York, N. Y. Foldable frame. 2,278,568; Apr. 7.
Sensenich Brothers. (See Sensenich, Harry M., assignor.)
Sensenich, Harry M., Lititz, assignor to Sensenick Brothers, near Lititz, Pa. Airplane propeller. 2,278,900; Apr. 7.
Servel, Inc. (See Kögel, Wilhelm G., assignor.)
Servel, Inc. (See Lenning, A., and Standberg, assignors.)
Servel, Inc. (See Lenning, Alvar, assignor.)
Servel, Inc. (See Reistad, Bengt, assignor.)
Servel, Inc. (See Taylor, Robert S., assignor.)
Servel, Inc. (See Thomas, Albert R., assignor.)
Servel, Inc. (See Ullstrand, Hugo M., assignor.)
Service Caster & Truck Company, The. (See Zeindler, Werner, assignor.)
Servisoft, Inc. (See Ralston, Glenn S., assignor.)
Shapiro, Max S., Brooklyn, N. Y. Synthetic porcelain for making artificial teeth and dental restorations. 2,279,067; Apr. 7.
Shaw, Frank H., South Orange, assignor to Shaw Insulator Company, Irvington, N. J. Relief molding of plastics. 2,279,208; Apr. 7.
Shaw Insulator Company. (See Shaw, Frank H., assignor.)
Shaw, Le Forest L., North Abington, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Shoe sewing machine. 2,278,675; Apr. 7.
Shelby Salesbook Company. (See Critchfield, Walter O., assignor.)
Shell Development Company. (See Bergstrom, Roland F., assignor.)
Shell Development Company. (See Hillman, Eric S., assignor.)
Shell Development Company. (See Rust, F. F., and Vaughan, assignors.)
Shell Development Company. (See van Peski, A. J., Max and van Meisen, assignors.)
Shobert, Erle L., II. (See Sanders, V. H., Schaberl, and Shobert, II.)
Shoemaker, Bernard H., Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Removal of sulphur from organic substances. 2,278,498; Apr. 7.
Shoemaker, Bernard H., Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Removal of oxygen and the like from organic substances. 2,279,277; Apr. 7.
Shrubsall, Harry, Niagara Falls, N. Y., assignor to The Linde Air Products Company. Welding. 2,278,569; Apr. 7.

Shue, Ingle R., Beloit, Wis., assignor to Gardner Machine Company, South Beloit, Ill. Grinding disk. 2,279,278; Apr. 7.

Shurley, Frederick, Windsor, Ontario, Canada. Registering device for multicolor printing. 2,278,570; Apr. 7.

Siebrandt, John R., Kansas City, Mo. Wire crimping and twisting tool. 2,279,068; Apr. 7.

Siemens Apparate und Machinen Gesellschaft mit beschränkter Haftung. (See Goerth, Johannes, assignor.)

Siers, Anthony, assignor to O'Donnell Shoe Company, Humboldt, Tenn. Conductive footwear. 2,279,094; Apr. 7.

Sievert, Charles. (See Svirsky, Bennett, assignor.)

Silex Company, The. (See Wolcott, Frank E., assignor.)

Silver, Herman, Minneapolis, Minn. Air turbine ventilator. 2,279,016; Apr. 7.

Simmons, Oliver H., assignor to Buell Manufacturing Co., Chicago, Ill. Motor. 2,279,069; Apr. 7.

Simmons, William G. (See Taylor, B. J., and Simmons.)

Simon, Walter. (See Anthes, E., Fuener, and Simon.)

Simonson, William. (See Roeder, E. M., and Simonson.)

Sinden, Alfred D., Aurora, Ill., assignor to Redler Conveyor Company, Quincy, Mass. Conveyer. 2,279,070; Apr. 7.

Skinner, Bronson C., Dunedin, Fla. Method of stacking and treating fruits and vegetables in coloring rooms. 2,278,571; Apr. 7.

Skinner Irrigation Company, The. (See Coles, W. H., and Nelson, assignors.)

Slick, Edwin E., Pittsburgh, Pa. Manufacturing glass articles. 2,278,572; Apr. 7.

Slunder, Charles J., Oakmont, assignor to Aluminum Company of America, Pittsburgh, Pa. Treating aluminum surfaces. 2,279,252; Apr. 7.

Slunder, Charles J., Oakmont, assignor to Aluminum Company of America, Pittsburgh, Pa. Treating aluminum surfaces. 2,279,253; Apr. 7.

Smart, Joy, Thomasville, Ga. Hamper basket truck. 2,278,950; Apr. 7.

Smith, A. O., Corporation. (See Anderson, Perry, assignor.)

Smith, A. O., Corporation. (See Crawford, William E., assignor.)

Smith, A. O., Corporation. (See Matush, Milan A., assignor.)

Smith, A. O., Corporation. (See Tiedemann, Julius B., assignor.)

Smith, Charles O., Virginia, Minn. Decoy anchor. 2,278,594; Apr. 7.

Smith, Frank B., and J. N. Hansen, assignors to The Dow Chemical Company, Midland, Mich. Amine salts. 2,278,499; Apr. 7.

Smith, Jesse A. B., Stamford, Conn., and F. Becker, Queens Village, assignors to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,278,743; Apr. 7.

Smith, Newell R., Bloomfield, N. J., assignor to Radio Corporation of America. Vacuum tube seal-off. 2,278,500; Apr. 7.

Smith, Norman J., Medfield, and W. L. Thomas, Lynn, assignors to Crosby Steam Gage & Valve Company, Boston, Mass. Illuminated dial instrument. 2,278,951; Apr. 7.

Smock, Olin C., Assumption, Ill. Rolling crutch. 2,278,901; Apr. 7.

Snader, Howard B., Temple, assignor to Vanity Fair Silk Mills, Reading, Pa. Two-way stretch strain absorbing band with aligned relaxed meshes. 2,279,180; Apr. 7.

Snader, Howard B., Temple, assignor to Vanity Fair Silk Mills, Reading, Pa. Stocking with elastic strain absorbing band incorporating relaxed meshes. 2,279,181; Apr. 7.

Snyder, Cloyd L., South Bend, Ind. Brush. 2,279,209; Apr. 7.

Snyder, Eugene L., Canton, Ohio. Ornamental tree. 2,279,182; Apr. 7.

Snyder, Le Roy J., as trustees. (See Wilcox, William D., assignor.)

Societe Anonyme des Manufactures des Glaces & Products Chimiques de Saint Gobain, Chauny & Cirey. (See Loisenur, Jean, assignor.)

Societe Anonyme: Etablissements Ed. Jaeger. (See Rodanet, Charles Hilaire Henri, assignor.)

Socony-Vacuum Oil Company. (See Badertscher, D. E., Williams and Berger, assignors.)

Socony-Vacuum Oil Company. (See Bertness, T. A., Johnston, and Newton, assignors.)

Soderberg, Sten E. B., Passaic, assignor to Leslie Company, Lyndhurst, N. J. Pilot valve. 2,278,952; Apr. 7.

Sohnemann, Kurt, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Superregenerative receiver. 2,279,095; Apr. 7.

Solvay Process Company, The. (See Branting, Briant F., assignor.)

Solvay Process Company, The. (See Grossmann, S. W., and Rogers, assignors.)

Sonoco Products Company. (See Campbell, Charles H., assignor.)

Sorensen, Andrew J., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Receiving apparatus for communication systems. 2,279,184; Apr. 7.

Soundscriber Corporation, The. (See Stone, Robert L., assignor.)

Soundscriber Corporation, The. (See Thompson, Lincoln, assignor.)

Spalding, A. G., & Bros., Inc. (See Dickson, J. B., Stafford and Blanchfield, assignors.)

Spanagel, Edgar W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Yarn sizing process. 2,278,902; Apr. 7.

Spang, Joseph P., Quincy, assignor to Cube Steak Machine Company, Inc., Boston, Mass. Meat-slitting machine. 2,279,071; Apr. 7.

Spang, Joseph P., Quincy, assignor to Cube Steak Machine Company, Inc., Boston, Mass. Meat-slitting machine. 2,279,072; Apr. 7.

Spanner, Jakob. (See Weiss, L., and Spanner.)

Sparkler Manufacturing Company. (See Kracklauer, Aloysius C., assignor.)

Sparks, Chiles E. (See Rossander, S. S., and Sparks.)

Sparre, Trygve, London, England, assignor to The Borden Company, New York, N. Y. Production of a resin-like casein glue. 2,279,096; Apr. 7.

Sparrow, Hubert T., and J. M. Wilson, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Method of forming thermocouples. 2,278,744; Apr. 7.

Spear, Wendell C., Wapakoneta, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Signal system for single-phase motors. 2,278,573; Apr. 7.

Spear, Wendell C., Wapakoneta, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Self-starting single-phase induction motor with plugging reversing connections. 2,279,210; Apr. 7.

Speedry Gravure Corporation. (See Kott, Hermann, assignor.)

Spencer Lens Company. (See Critoph, D. I., Schrader, and Richards, assignors.)

Sperry Gyroscope Company. (See Carter, Leslie F., assignor.)

Spohr, Carl W., Chicago, and R. F. Bracke, Arlington Heights, Ill., assignors to Saf-T-Pop Corporation, Dubuque, Iowa. Confection making method and apparatus. 2,278,574; Apr. 7.

Srodulski, Joseph W., Chicago, Ill. Coin control. 2,278,676; Apr. 7.

Stabbert, Edward, Tacoma, Wash. Plasterers' float and trowel. 2,278,803; Apr. 7.

Stackpole Carbon Company. (See Sanders, V. H., Schaberl, and Shobert, II, assignors.)

Stadtler, Paul, Flushing, N. Y. Spring mounting. 2,278,903; Apr. 7.

Stafford, Raphael A. (See Dickson, J. B., Stafford, and Blanchfield.)

Stahly, Eldon E., and E. M. Hattox, Baton Rouge, La., assignors to Standard Oil Development Company. Catalytic reaction of olefins. 2,278,677; Apr. 7.

Stanco Incorporated. (See Rose, William H., assignor.)

Standard Catalytic Company. (See Michael, W., and Plauth, assignors.)

Standard Electric Manufacturing Co. (See Parker, Thomas L., assignor.)

Standard Oil Company. (See Brown, Will K., assignor.)

Standard Oil Company. (See Hull, Carl M., assignor.)

Standard Oil Company. (See Shoemaker, Bernard H., assignor.)

Standard Oil Development Company. (See Asbury, W. C., and Garner, assignors.)

Standard Oil Development Company. (See Cohen, Charles A., assignor.)

Standard Oil Development Company. (See Frolich, Per K., assignor.)

Standard Oil Development Company. (See Harrington, Paul J., assignor.)

Standard Oil Development Company. (See Kuhl, Paul E., assignor.)

Standard Oil Development Company. (See Matheson, G. L., and Rosen, assignors.)

Standard Oil Development Company. (See Paulsen, Henry C., assignor.)

Standard Oil Development Company. (See Roediger, Joseph C., assignor.)

Standard Oil Development Company. (See Stahly, E. E., and Hattox, assignors.)

Standard Oil & Gas Company. (See Dunn, Thomas H., assignor.)

Standard Railway Devices Company. (See, Bonsall Charles D., assignor.)

Standard Railway Devices Company. (See Crede, Charles E., assignor.)

Standard Screw Company. (See Follet, Vermont, assignor.)

Standard Steel Works. (See Gredell, Otto N., assignor.)

Standberg, Per P. (See Lenning, A. and Standberg.)

Stanley, Edmund. (See Ellis, G. H., and Stanley.)

Stark, Virgil, Forest Hills, Long Island, N. Y. Community refrigeration and gas system. 2,279,097; Apr. 7.

Stauffer, Charles P., Bell, Calif. Repair clamp for pipes. 2,278,714; Apr. 7.

Stauss, Karl R., Vestal, assignor to International Business Machines Corporation, New York, N. Y. Marking device. 2,279,073; Apr. 7.

Stearman, Lloyd C., Burlingame, assignor to Transair Corporation, San Francisco, Calif. Airplane landing gear. 2,279,074; Apr. 7.

Steinle, Leo E. (See Kirby, W. G., and Steinle.)

Stelzer, Frank E., Lynbrook, N. Y. Pump. 2,278,595; Apr. 7.

Stimatze, John B., Syracuse, Kans. Three row harvesting machine. 2,279,183; Apr. 7.

Stimson, Edgar E., Malcolm, Iowa, Nesting device. 2,279,147; Apr. 7.

Stocker, C. P. (See Pohm, George H., assignor.)

Stockham, Gordon E., Piqua, Ohio. Dishwasher and impeller therefor. 2,278,953; Apr. 7.

Stokes, George, et al. (See Fernstrom, Charles, assignor.)

Stokes, John C. (See Harrington, G. G., Stokes, and Emrick.)

Stone, Robert L., Hamden, assignor to The Soundscriber Corporation, New Haven, Conn. Phonographic warning signal. 2,278,678; Apr. 7.

Storkline Furniture Corporation. (See Feldman, Abraham G., assignor.)

Stoyke, Ludwig T., Chicago, and F. R. Venton, Clarendon Hills, assignors to Crane Co., Chicago, Ill. Valve. 2,278,715; Apr. 7.

Straub, Karl, assignor to Robert Bosch Gesellschaft mit beschränkter Haftung, Stuttgart, Germany. Battery ignition system for internal combustion engines. 2,278,679; Apr. 7.

Street, Ralph B. and W. E., Chattanooga, Tenn. Holder for test tubes and the like. 2,279,075; Apr. 7.

Street, Wendell E. (See Street, Ralph B. and W. E.)

Stuart, James B., et al. (See Turney, Eugene T., assignor.)

Stuart, Joseph, II, assignor to Hercules Powder Company, Wilmington, Del. Machine for testing blasting cap shells. 2,278,804; Apr. 7.

Sturgeon, John F., assignor to Universal Oil Products Company, Chicago, Ill. Manufacture of catalysts. 2,278,746; Apr. 7.

Sturtevant, B. F., Company, The. (See Brizzolara, Robert L., assignor.)

Sundius, Robert W., Brooklyn, N. Y. Signaling device. 2,279,077; Apr. 7.

Superior Switchboard & Devices Company, The. (See Grace, Richard W., assignor.)

Sutherland, Carl H., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Commutator cover for dynamo-electric machines. 2,279,148; Apr. 7.

Sutton, John C., assignor to The Brearley Company, Rockford, Ill. Weighing scale. 2,279,076; Apr. 7.

Svirsky, Bennett, Glendale, Calif., assignor of one-half to C. W. Sievert. Expansible closure means for conduits. 2,279,257; Apr. 7.

Swanson, Edward V., San Francisco, Calif. Trimming device. 2,279,078; Apr. 7.

Swezey, Fenton H., M. E. Bishop and R. M. Hoffman, Waynesboro, Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical composition. 2,278,747; Apr. 7.

Talbot, Albert M., Fair Haven, and W. C. Mearns, Elizabeth, N. J., assignors to The International Nickel Company, Inc., New York, N. Y. Heat treated and hardened article of manufacture made of fine grained deep hardened steels. 2,279,079; Apr. 7.

Tanner, Elo C. (See Packer, L. C., and Tanner.)

Taplin, John F., Foxboro, Mass. Rate of climb meters. 2,278,805; Apr. 7.

Tawney, Gereld L., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Conversion system. 2,279,149; Apr. 7.

Taylerson, Ewart S. (See Quigley, W. M., and Taylerson.)

Taylor, Benjamin F., and W. G. Simmons, Salinas, Calif. Lettuce and carrot-crate liner. 2,278,748; Apr. 7.

Taylor, Robert S., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,279,080; Apr. 7.

Taylor, Sam Y., Houston, Tex., assignor to H-T Band Socket Corporation. Combination bale tie and holder. 2,279,081; Apr. 7.

Taylor, Walter W. (See Malsbary, J. F., and Taylor.)

Technico, Incorporated. (See Hasslacher, C. A., and Rimbach, assignors.)

Technico, Incorporated. (See Rimbach, Henry W., assignor.)

Technicolor Motion Picture Corporation. (See Callahan, Walter A., assignor.)

Tedeschi, Enrico, Tuckahoe, N. Y. Road indicator. 2,278,905; Apr. 7.

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Buschbeck, Werner, assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Peters, Wilhelm, assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Sohnemann, Kurt, assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Werndl, Ernest, assignor.)

Telephon-Apparat-Fabrik E. Zwietusch & Co., G. m. b. H. (See Dohle, H., Langer, and Schramm, assignors.)

Teletype Corporation. (See Potts, Louis M., assignor.)

Tellegen, Bernardus D. H., Eindhoven, Netherlands, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Receiver circuits. 2,279,185; Apr. 7.

Terry, Warren F., West Somerville, Mass., and R. E. Goodenough, Northfield, Vt. Combined dust collector and drill hole cleaner. 2,279,186; Apr. 7.

Texas Company, The. (See Nagle, R. E., and Gaucher, assignors.)

Texas Company, The. (See Thurston, Robert R., assignor.)

Theilgaard, Holger, Chicago, Ill., assignor to La Salle Mortgage & Discount Company. Electric steam iron. 2,279,215; Apr. 7.

Thom, John, New York, N. Y. Shower. 2,279,150; Apr. 7.

Thomas, Albert R., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,279,082; Apr. 7.

Thomas, Leslie G., Tenafy, assignor to Automatic Winding Company, Inc., East Newark, N. J. Perforating machine. 2,279,211; Apr. 7.

Thomas, Leslie G., Tenafly, assignor to Automatic Winding Company, Inc., East Newark, N. J. Perforating machine. 2,279,212; Apr. 7.

Thomas, Walter L. (See Smith, Norman J., and Thomas.)

Thompson, Gustave R., New York, N. Y. Compressor for pamphlets and the like within cases. 2,278,596; Apr. 7.

Thompson, Leslie E., and A. Jenkins, London, England, assignors, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa. Alternating electric current rectifier of the selenium type. 2,279,187; Apr. 7.

Thompson, Lincoln, Cheshire, assignor to The Soundscriber Corporation, New Haven, Conn. Quick start and stop drive mechanism for phonograph turntables. 2,278,680; Apr. 7.

Thompson, Royal E. (See Laufersweiler, W. J., and Thompson.)

Thomson, S. H., Manufacturing Company, The. (See Gravenstine, George E., assignor.)

Thul, Frank M., Davenport, Iowa. Safety winch. 2,278,681; Apr. 7.

Thurston, Robert R., Chappaqua, assignor, by mesne assignments, to The Texas Company, New York, N. Y. Coating aggregate with bitumen. 2,278,954; Apr. 7.

Tiedemann, Julius B., assignor to A. O. Smith Corporation, Milwaukee, Wis. Swaging machine. 2,279,083; Apr. 7.

Tillyer, Edgar D., and H. R. Moulton, Southbridge, and T. M. Gunn, Attleboro, assignors to American Optical Company, Southbridge, Mass. Glass composition and product thereof. 2,278,501; Apr. 7.

Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Heat screen for projection apparatus. 2,279,084; Apr. 7.

Tilton, Clifford W., Medina, Ohio. Apparatus for working surfaces. 2,278,806; Apr. 7.

Titeflex Metal Hose Co. (See Ingalls, David, assignor.)

Titelman, Frank M., Altoona, Pa. Shirt. 2,279,188; Apr. 7.

Tobin-Arp Manufacturing Company. (See Arp, Ewald A., assignor.)

Todd, Edwin T., assignor to American Seating Company, Grand Rapids, Mich. Chair arm. 2,278,749; Apr. 7.

Tomsic, Guy, Rockville, Conn. Ash tray. 2,279,026; Apr. 7.

Tomkins-Johnson Company. (See Draper, Donald C., assignor.)

Tornberg, Isidor, assignor to Wood Newspaper Machinery Corporation, Plainfield, N. J. Rotary stuffing machine. 2,279,269; Apr. 7.

Tornberg, Isidor, Plainfield, and H. C. Jordhoy, North Plainfield, assignors to Wood Newspaper Machinery Corporation, Plainfield, N. J. Newspaper stuffing machine. 2,279,270; Apr. 7.

Toth, Louis. (See Peremi, E., and Toth.)

Trahsair Corporation. (See Stearman, Lloyd C., assignor.)

Transit Research Corporation, The. (See Piron, E. H., and Hirshfeld, assignors.)

Transit Research Corporation. (See Piron, Emil H., assignor.)

Traylor Engineering and Manufacturing Company. (See Traylor, S. W., and Patten, assignors.)

Traylor, Samuel W., and C. H. Patten, assignors to Traylor Engineering and Manufacturing Company, Allentown, Pa. Suspension for crusher shafts. 2,278,625; Apr. 7.

Traylor Vibrator Company, The. (See Cecil, Alex T., assignor.)

Tremolada, Guglielmo R., assignor to Emsco Derrick & Equipment Company, Los Angeles, Calif. Hydraulic swivel having improved mud joint. 2,278,807; Apr. 7.

Troxler, Charles G., assignor to The Hoover Company, North Canton, Ohio. Sustion cleaner. 2,279,213; Apr. 7.

Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Shuttle for weft replenishing looms. 2,278,597; Apr. 7.

Turney, Eugene T., Holmes, N. Y., assignor of five percent to J. B. Stuart, Hollywood, five percent to B. C. Fields; nine and three hundred seventy-five thousandths percent to W. T. Orr; and twenty-eight and one hundred twenty-five thousandths percent to G. O. Hall, Los Angeles, Calif. Sound reproducer. 2,278,598; Apr. 7.

Tuska, Clarence D. (See Cooper, P. G., and Tuska.)

Tuthill, Walter W. (See Melhose, A. E., and Tuthill.)

Tweed, William H., Jr., Peabody, Mass. Game apparatus. 2,278,808; Apr. 7.
Udale, Stanley M. (See Kittler, M. J., and Udale.)
Uhlir, Charles H., Cleveland, Ohio. Reminder appliance. 2,279,189; Apr. 7.
Ulstrand, Hugo M., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,279,017; Apr. 7.
Underwood Elliott Fisher Company. (See Anderson, Walter A., assignor.)
Underwood Elliott Fisher Company. (See Mann, Miles H., assignor.)
Underwood Elliott Fisher Company. (See Smith, J. A. B., and Becker, assignors.)
Ungerleider, William. (See Walker, J., and Ungerleider.)
Union Oil Company of California. (See Huppke, Walter F., assignor.)
Union Oil Company of California. (See Lee, Milton W., assignor.)
Union Switch & Signal Company, The. (See Alriq, Hubert J. F., assignor.)
Union Switch & Signal Company, The. (See Fisher, Arthur W., assignor.)
Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.)
Union Switch & Signal Company. (See Sorensen, Andrew J., assignor.)
Union Switch & Signal Company, The. (See Thompson, L. E., and Jenkins, assignors.)
United Shoe Machinery Corporation. (See Courchene, Theodore P., assignor.)
United Shoe Machinery Corporation. (See Fossa, Joseph assignor.)
United Shoe Machinery Corporation. (See Shaw, Le Forest L., assignor.)
United States Cabinet Bed Co. (See Martin, Joseph, assignor.)
United States Gauge Company. (See Klein, M., and Pfeffer, assignors.)
United States Gypsum Company. (See Arendt, Beach F., assignor.)
United States Gypsum Company. (See Linzell, H. K., and Gill, assignors.)
United States Gypsum Company. (See Parsons, Joseph R., assignor.)
United States Patent Development and Royalty Company. (See Neuman, Jacob J., assignor.)
United States Pipe and Foundry Company. (See Myers, Walter S., assignor.)
United States Rubber Company. (See Desautels, Charles H., assignor.)
United States Rubber Company. (See Elliott, Paul M., assignor.)
United States Rubber Company. (See Kirby, W. G., and Steinle, assignors.)
United States Rubber Company. (See Martin, Frank S., assignor.)
United States Rubber Company. (See Paul, Philip T., assignor.)
United States Rubber Company. (See Wikle, George F., assignor.)
Universal Oil Products Company. (See Day, Roland B., assignor.)
Universal Oil Products Company. (See Sturgeon, John F., assignor.)
Universal Oil Products Company. (See Wirth, Charles III, assignor.)
Vail, Edgar L., assignor to Jaeger Watch Company, Inc., New York, N. Y. Deicing apparatus. 2,278,716; Apr. 7.
Valsts Elektrotechniska Fabrika. (See Zapp, Walter, assignor.)
Vanity Fair Silk Mills. (See Sander, Howard B., assignor.)
Van Melsen, Johannes A. (See van Peski, A. J., Max, and van Melsen.)
Van Peski, Adrianus J., N. Max., and J. A. van Melsen, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif. Metal derivatives of amino methylene aldehydes. 2,278,965; Apr. 7.
Van Valkenburg, Eber H., Highland Park, assignor to Century Engineering Company, Center Line, Mich. Acetylene generator. 2,278,955; Apr. 7.
Vasko, John R., Great Falls, Mont. Cast support. 2,278,626; Apr. 7.
Vaughan, William E. (See Rust, F. F., and Vaughan.)
Veeder-Root Incorporated. (See Orbeck, Einar M., assignor.)
Veinott, Cyril G., Lima, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Thermal motor protective device. 2,279,214; Apr. 7.
Veit, Herman E., Parkville, Md., assignor to The Glenn L. Martin Company, Baltimore, Md. Sorting machine 2,278,599; Apr. 7.
Veneman, Carl C., assignor of one-half to L. M. Glaser, Beverly Hills, Calif. Balance. 2,278,809; Apr. 7.
Venton, Frederick R. (See Stoyke, L. T., and Venton.)
Vereinigte Glühlampen und Elektrizitats Aktiengesellschaft. (See Winter, Erno, assignor.)
Viber Company. (See Douglass, Forrest G., assignor.)
Virtue, Julian A. (See Virtue, P. M. and J. A.)
Virtue, Philip M. and J. A., Los Angeles, Calif. Folding brace. 2,278,810; Apr. 7.
Wabash Screen Door Company. (See Drinkwater, Charles M., assignor.)
Wacker, Dr. Alexander, Gesellschaft für Elektrochemische Industrie, G. m. b. H. (See Herrmann, W. O., and Haehnel, assignors.)
Wagner, Charles F. (See Evans, R. D., and Wagner.)
Wagner, Martin, Cambridge, Mass. Building construction. 2,278,956; Apr. 7.
Wagner, Walter C., Ardmore, Pa. Compensated meter. 2,278,682; Apr. 7.
Walker, Jay P., assignor to Eureka Process Corporation Tulsa, Okla. Method of recovering liquefiable hydrocarbons from gases or gaseous fluids. 2,278,750; Apr. 7.
Walker, John, and W. Ungerleider, Easton, Pa. White lightweight aggregate. 2,278,957; Apr. 7.
Wallace, Marcel, New York, N. Y., assignor, by direct and mesne assignments, to Panoramic Radio Corporation. Panoramic radio receiving system. 2,279,151; Apr. 7.
Wallenius, Arthur W., Glendale, Calif. Fountain comb. 2,278,811; Apr. 7.
Wassermann, Rene, Woodmere, N. Y. Alloy. 2,279,282; Apr. 7.
Wassermann, Rene, New York, N. Y. Alloys. 2,279,283; Apr. 7.
Wassermann, Rene, New York, N. Y. Silver alloy. 2,279,284; Apr. 7.
Waters, Harry F., New York, N. Y. Container and package. 2,278,502; Apr. 7.
Watkins, George B. (See Drake, J. L., and Watkins.)
Watrous, George W., assignor to The Duplex Printing Press Company, Battle Creek, Mich. Pouring sheet. 2,278,751; Apr. 7.
Wattie, William M., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Vibrator comb 2,279,098; Ap. 7.
Waukeshaw Foundry Company. (See Funk, Gilbert R., assignor.)
Way, Stewart, Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Gear and pinion. 2,279,216; Apr. 7.
Wean Engineering Company, The. (See Wean, Raymond J., assignor.)
Wean, Raymond J., assignor to The Wean Engineering Company, Inc., Warren, Ohio. Coating sheet metal. 2,278,600; Apr. 7.
Weed, James M., Ballston Lake, N. Y., and J. R. Meador, Pittsfield, Mass., assignors to General Electric Company. Electrical induction apparatus. 2,279,027; Apr. 7.
Weed, James M., Schenectady, N. Y., assignor to General Electric Company. Electrical induction apparatus. 2,279,028; Apr. 7.
Welen, Paul, assignor of one-half to H. S. Rich, Jr., Marietta, Pa. Signal switch. 2,278,503; Apr. 7.
Weinberg, Manfred M. (See Mitchell, Malcolm E., assignor.)
Weiss, Ludwig, Frankfort-on-the-Main, and J. Spanner, Neu-Isenburg, Germany, assignors to Handy & Harman, Bridgeport, Conn. Amethyst colored gold alloy. 2,278,812; Apr. 7.
Wenzel, Richard, as administrator. (See Wolff, Paul H.)
Werndl, Ernst, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Antenna tunable in its length. 2,278,601; Apr. 7.
Werner, Calvin J., and W. E. Menzies, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Control for electric motors. 2,278,575; Apr. 7.
Wernig, James H., assignor to General Motors Corporation, Detroit, Mich. Molding. 2,278,627; Apr. 7.
West, Bronson, and H. L. Johnson, St. Paul, Minn., said Johnson assignor of one-half to said West. Busy signal for automatic telephone systems. 2,278,752; Apr. 7.
West, Edward E., Richmond, Va. Automatic bag stringing needle. 2,279,099; Apr. 7.
West, John W., Woodside, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,278,628; Apr. 7.
Western Cartridge Company. (See Florman, Edwin F., assignor.)
Western Electric Company. (See Ewaldson, W. C., and Gillis, assignors.)
Western Electric Company. (See Ewaldson, W. C., and O'Handley, assignors.)
Western Electric Company. (See Murphy, Paul B., assignor.)
Western States Machine Company. (See Hertrich, Joseph, assignor.)
Western Union Telegraph Company, The. (See D'Humy, Fernand E., assignor.)
Western Union Telegraph Company, The. (See Eller, Keith B., assignor.)
Western Union Telegraph Company, The. (See Erickson, G. L., and Wise, assignors.)
Western Union Telegraph Company, The. (See Homer, E. C., and Buckingham, assignors.)
Western Union Telegraph Company, The. (See O'Brien, Frederic L., assignor.)
Westinghouse Electric Elevator Company. (See Baum, Donald H., assignor.)

Westinghouse Electric & Manufacturing Company. (See Anderson, W. B., and Grover, assignors.)
Westinghouse Electric & Manufacturing Company. (See Ashbaugh, John H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Austin, Baseum O., assignor.)
Westinghouse Electric & Manufacturing Company. (See Baudry, René A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Blankenbuehler, John H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Breckenridge, Frank, assignor.)
Westinghouse Electric & Manufacturing Company. (See Buchanan, Lloyd W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Condon, Edward U., assignor.)
Westinghouse Electric & Manufacturing Company. (See Evans, R. D., and Hobson, assignors.)
Westinghouse Electric & Manufacturing Company. (See Evans, R. D., and Wagner, assignors.)
Westinghouse Electric & Manufacturing Company. (See Frost, Leslie F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Gier, John R., Jr., assignor.)
Westinghouse Electric & Manufacturing Company. (See Gulliksen, Finn H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kalischer, P. R., and Schmitt, assignors.)
Westinghouse Electric & Manufacturing Company. (See King, G. E., Harding and Eames, assignors.)
Westinghouse Electric & Manufacturing Company. (See Kraut, Samuel B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Miner, J. D., Jr., and Schaelchlin, assignors.)
Westinghouse Electric & Manufacturing Company. (See Packer, L. C., and Tanner, assignors.)
Westinghouse Electric & Manufacturing Company. (See Parsons, John S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Roman, Walter G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Spear, Wendell C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Sutherland, Carl H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Tawney, Gereld L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Veinott, Cyril G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Way, Stewart, assignor.)
Wetzler, Herbert S. (See Herman, Henry F., assignor.)
Whalen, John N. (See Morgan, W., and Whalen.)
Wheeler, Jack L., Brisbane, Calif. Garment hanger support and transfer device. 2,278,813; Apr. 7.
Wheeling Steel Corporation. (See Kenney, J. S., and Milton, assignors.)
White, Percy E. Dennis and A. V. Nicolle, assignors to The Automotive Engineering Company Limited, Twickenham, England. Piston. 2,278,958; Apr. 7.
Whitehurst, George W., Portsmouth, Va. Object conveying and discharge device. 2,279,152; Apr. 7.
Whitney Blake Company, The. (See Judisch, Carl H., assignor.)
Whittemore, George A. (See Scott, G. D., Whittemore, and Glendon.)
Wiersig, Carl J., Alva, Okla. Detachable grain saving guard. 2,278,814; Apr. 7.
Wikle, George F., Detroit, Mich., assignor to United States Rubber Company, New York, N. Y. Method and apparatus for preparing and handling rubber material. 2,278,602; Apr. 7.
Wildhaber, Ernest, Brighton, assignor to Gleason Works, Rochester, N. Y. Relieving gear cutters. 2,278,576; Apr. 7.
Wilcox, Henry M., as trustee. (See Wilcox, William D., assignor.)
Wilcox, Mary P., as executrix. (See Wilcox, William D.)
Wilcox, William D., Kansas City, Mo., deceased, M. P. Wilcox, executrix, assignor to Le R. J. Snyder, Kansas City, Mo., J. V. Richards, Pekin, Ill., and H. M. Wilcox, Santa Monica, Calif., as trustees. Process of obtaining methanol. 2,279,153; Apr. 7.
Wilkinson, James W., Providence, R. I., assignor to Fram Corporation. Oil filter bracket. 2,279,190; Apr. 7.
Williams, Alfred L. W., Cleveland Heights, assignor to The Brush Development Company, Cleveland, Ohio. Piezoelectric apparatus. 2,278,966; Apr. 7.
Williams, Burdell S., Dayton, Ohio, assignor to Chrysler Corporation, Detroit, Mich. Window unit side wing construction. 2,279,271; Apr. 7.
Williams, Jewel B., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Gusset ironing attachment. 2,278,959; Apr. 7.
Williams, Lewis W., Short Hills, assignor to Motor Improvements, Inc., Newark, N. J. Filter. 2,278,603; Apr. 7.
Williams, Robert H. (See Badertscher, D. E., Williams and Berger.)
Williams, Wiley M., Spokane, Wash. Hand signal. 2,279,029; Apr. 7.
Wilson, George H. (See Francis, V. J., and Wilson.)
Wilson, James. (See Allen, R. C., and Wilson.)
Wilson, John H., Wichita Falls, Tex. Adjusting device for clutch elements and the like. 2,278,960; Apr. 7.
Wilson, John M. (See Sparrow, H. T., and Wilson.)
Wilson, Rufus W. (See Rodli, G., and Wilson.)
Wingardner, Charles A., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone signaling system. 2,278,504; Apr. 7.
Winkel, Herbert C., Maywood, Ill. Casting machine. 2,278,815; Apr. 7.
Winlund, Edmond S., Merchantville, N. J., assignor to Radio Corporation of America. Frequency modulation. 2,279,030; Apr. 7.
Winning, Robert K., Wauwatosa, assignor to Clum Manufacturing Company, Milwaukee, Wis. Thermostatic switch and automobile heater control circuits. 2,278,629; Apr. 7.
Winter Brothers Company. (See Winter, Charles C., assignor.)
Winter, Charles C., assignor to Winter Brothers Company, Wrentham, Mass. Adjustable tap or the like. 2,279,085; Apr. 7.
Winter, Erno, Budapest, assignor to Vereinigte Glühlampen und Elektrizitats Aktiengesellschaft, Ujpest, Hungary. Electron valve. 2,278,630; Apr. 7.
Wirth, Charles III, assignor to Universal Oil Products Company, Chicago, Ill. Treatment of petroleum and distillates thereof. 2,278,753; Apr. 7.
Wise, Henry R., Durand, Ill. Electric fence charger. 2,278,577; Apr. 7.
Wise, Raleigh J. (See Erickson, G. L., and Wise.)
Wolcott, Frank E., West Hartford, Conn., assignor to The Silex Company. Coffee maker. 2,278,754; Apr. 7.
Wolfe, Wallace V., Beverly Hills, Calif., assignor to Radio Corporation of America. Sound recording method and system. 2,279,018; Apr. 7.
Wolff, Paul H., deceased, late of Frankfort-on-the-Main-Hochst, by R. Wenzel, Frankfort-on-the-Main-Hochst, Germany, administrator, and K. Frank, assignors to General Aniline & Film Corporation. Triarylmethane dyestuffs and process of preparing them. 2,278,961; Apr. 7.
Wood, Frank J., Riverside, assignor to Goodman Manufacturing Company, Chicago, Ill. Continuous strip pickling and cleaning device. 2,279,217; Apr. 7.
Wood Newspaper Machinery Corporation. (See Tornberg, Isidor, assignor.)
Wood Newspaper Machinery Corporation. (See Tornberg, I., and Jordhoy, assignors.)
Wood, Walter W., Canton, Ohio. Spring suspension. 2,279,154; Apr. 7.
Wooldridge Manufacturing Company. (See Clark, Gerald I., assignor.)
Woolley, William J., Chicago, Ill. Humidifier. 2,278,755; Apr. 7.
Worth, Henry, and M. D. Goldsmith, New York, N. Y. Powder applying mitt or glove. 2,279,100; Apr. 7.
Worth, Weldon, Dayton, Ohio. Temperature control unit. 2,279,285; Apr. 7.
Wright, Edwin R., Airdrie, Alberta, Canada. Receptacle closure and seal. 2,279,155; Apr. 7.
Wright, William A., Wabash, Ind., assignor to The General Tire & Rubber Company, Akron, Ohio. Method of forming tube or gasket angles. 2,278,756; Apr. 7.
Yonhouse, Joseph, Fairfield, assignor to Casco Products Corporation, Bridgeport, Conn. Brush rigging. 2,278,604; Apr. 7.
Young, Leonard A., Detroit, Mich. Nut and manufacturing the same. 2,278,962; Apr. 7.
Young, William K., assignor to Eclipse Counterbore Company, Detroit, Mich. Boring tool. 2,278,631; Apr. 7.
Zabel, William P., Cleveland Heights, Ohio, assignor to General Electric Company. Incandescent electric lamp. 2,278,816; Apr. 7.
Zapp, Walter, assignor to Valsts Elektrotechniska Fabrika, Riga, Latvia. View finder for photographic apparatus. 2,278,505; Apr. 7.
Zeindler, Werner, assignor to The Service Caster & Truck Company, Albion, Mich. Lifting table or truck. 2,278,817; Apr. 7.
Zeller, Theodore J., Plainfield, and S. F. Lisbon, North Plainfield, N. J., assignors to Mack Manufacturing Corporation, Long Island City, N. Y. Thrust washer structure. 2,278,578; Apr. 7.
Zimmermann, William F., Maplewood, assignor to Gould & Eberhardt, Newark, N. J. Shaping machine. 2,278,757; Apr. 7.
Zolik, Thomas C., Chicago, Ill. Heating device. 2,278,683; Apr. 7.
Zoppa, Arthur E., New York, N. Y. Wave power actuated pump. 2,278,818; Apr. 7.
Zuschlag, Theodor, West Englewood, N. J., assignor, by mesne assignments, to Lundberg Exploration S. A., Panama City, Panama. Apparatus for geophysical prospecting. 2,278,506; Apr. 7.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 7TH DAY OF APRIL, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Air conditioning unit. D. P. Brace. Re. 22,058; Apr. 7.
Anode. G. H. Young. Re. 22,065; Apr. 7.
Cutter-head quick release. W. D. Johnson. Re. 22,061; Apr. 7.
Mechanism for rock drills, Feeding. A. Feucht. Re. 22,059; Apr. 7.
Furnace treatment of low grade manganese-iron ore, Blast. P. H. Royster. Re. 22,063; Apr. 7.
Guardrail, Two-purpose highway. A. P. Hayden and G. A. Gleason. Re. 22,060; Apr. 7.
Gun bores, Apparatus for heat treating. H. E. Somes. Re. 22,064; Apr. 7.
Rosins and their esters into compounds, Method for the separation of chemically modified. J. N. Borglin. Re. 22,057; Apr. 7.
Truck sleeper. E. A. Kounkel. Re. 22,062; Apr. 7.

LIST OF DESIGN INVENTIONS

Aircraft carrier. O. A. Bartholomew. 131,909; Apr. 7.
Altar. L. J. Murphy. 131,900; Apr. 7.
Badge or similar article. J. F. Kennedy. 131,947; Apr. 7.
Bar, Portable. J. R. Corbett. 131,957; Apr. 7.
Blackout unit for headlight lenses. W. C. Thee. 131,929; Apr. 7.
Board or the like, Display. J. B. Dey. 131,933; Apr. 7.
Bottle, Milk. W. C. Teunisz. 131,949; Apr. 7.
Bowling alley service unit or similar article. E. J. Cloutier. 131,899; Apr. 7.
Brooch or similar article. A. Katz. 131,959–60; Apr. 7.
Brooch or similar article. A. Katz. 131,969–70; Apr. 7.
Brooch or similar article. A. Katz. 131,972; Apr. 7.
Brooch or similar article. A. Philippe. 131,975; Apr. 7.
Brooch or similar article. A. Spaney. 131,966; Apr. 7.
Brooch pin or similar article. W. W. Hobé. 131,930–1; Apr. 7.
Brooch pin or similar article. W. W. Hobé. 131,967–8; Apr. 7.
Brooch, Separable. G. Verrecchio. 131,976; Apr. 7.
Cabinet for crochet hooks or the like, Display. E. D. Davis. 131,958; Apr. 7.
Cap for a fluorescent lighting fixture, End. D. J. Biller. 131,944; Apr. 7.
Cap for a fluorescent lighting fixture, End. D. J. Biller. 131,950–1; Apr. 7.
Case, Perfume display. J. Miller. 131,977; Apr. 7.
Casing for flushing apparatus. M. W. Thompson. 131,956; Apr. 7.
Clip pin. A. Philippe. 131,961–4; Apr. 7.
Clip pin. A. Philippe. 131,973; Apr. 7.
Clip pin. A. Philippe. 132,001; Apr. 7.
Coat. B. Cashin. 131,989; Apr. 7.
Confection. E. H. Hale. 131,946; Apr. 7.
Device for preventing sewage back flow into a liquid container of a water supply. E. W. N. Boosey. 131,953; Apr. 7.
Dish, cover and base combination, Glass. L. Poglein. 131,965; Apr. 7.
Doll or similar article, Stuffed. L. L. Weiss. 131,943; Apr. 7.
Dress. A. Caron. 131,981–4; Apr. 7.
Dress. B. Cashin. 131,985–8; Apr. 7.
Dress. B. Cashin. 131,990; Apr. 7.
Dress. S. Elmo. 131,991; Apr. 7.
Dress. M. Fields. 131,992–4; Apr. 7.
Dress. B. Kessler. 131,997–8; Apr. 7.
Dress. W. Maidman. 132,000; Apr. 7.
Dress. A. Ruchman. 132,003; Apr. 7.
Dress. M. A. Rudolph. 132,004; Apr. 7.
Dress. L. Sachs. 132,005; Apr. 7.
Dress ensemble. I. Hammer. 131,995; Apr. 7.
Dress ensemble. L. Helms. 131,996; Apr. 7.
Dress ensemble. S. Riesenberg. 132,002; Apr. 7.
Dress ensemble. J. Siegel. 132,007; Apr. 7.
Earring. A. Katz. 131,971; Apr. 7.
Earring. A. Philippe. 131,974; Apr. 7.
Furnace, Plumber's. J. S. Fagan. 131,935; Apr. 7.
Gem setting or similar article. I. Roskin. 131,902–6; Apr. 7.
Handle for safety razors. V. T. Van Slyke. 131,940; Apr. 7.
Heater, Water. W. H. Stangle. 131,955; Apr. 7.
Holder for condiment shakers or the like. D. B. Woodruff. 131,908; Apr. 7.
Hook, Shower curtain. J. Z. Silverman. 131,978–9; Apr. 7.
Lamp and radio receiving set, Combined. D. J. Crowley. 131,954; Apr. 7.
Lantern. M. J. Freemark. 131,926; Apr. 7.
Liturgical orphray or similar article. A. Baumgartner. 131,910–13; Apr. 7.
Ornament or similar article, Hair. M. Kosikar. 131,936; Apr. 7.
Paper or similar article, Wrapping. R. Junge. 131,921; Apr. 7.
Pin or similar article. V. Gambardella. 131,945; Apr. 7.
Rack, Display. H. A. Sarvis. 131,907; Apr. 7.
Receptacle for sadirons. O. Vike. 131,942; Apr. 7.
Ring or similar article, Finger. A. Schwartz. 131,948; Apr. 7.
Roller for reciprocating razors. V. T. Van Slyke. 131,941; Apr. 7.
Scarf or similar article, Table. S. J. Oppenheim. 131,922–3; Apr. 7.
Shaker or the like, Condiment. J. G. Williams. 131,924; Apr. 7.
Shaver, Electric. R. F. Loewy. 131,928; Apr. 7.
Shoe. N. Elmore. 131,934; Apr. 7.
Signal, Portable reflector. A. C. Hubbell. 131,927; Apr. 7.
Slip or similar article of wearing apparel. A. Nelson. 131,938; Apr. 7.
Slipper. T. R. Atkins. 131,932; Apr. 7.
Suit. A. Shotland. 132,006; Apr. 7.
Toy swing. J. H. Phillips. 131,901; Apr. 7.
Table, Barbecue. C. A. Robinson. 131,939; Apr. 7.
Table, Score. E. J. Cloutier. 131,898; Apr. 7.
Textile fabric. C. Beltramini. 131,914; Apr. 7.
Textile fabric, Embroidered. A. Lehmann. 131,937; Apr. 7.
Textile fabric or similar article. M. M. Cann. 131,915–20; Apr. 7.
Textile fabric or similar article. E. T. Tishock. 131,925; Apr. 7.
Trailer. D. Bolenbach. 131,952; Apr. 7.
Trimming or similar article, Embroidered lace. R. Koenig. 131,999; Apr. 7.
Uniform. A. M. Berger. 131,980; Apr. 7.



LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 7TH DAY OF APRIL, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accumulator. H. Caminez. 2,278,688; Apr. 7.
Acetylene and lime hydrate, Apparatus for producing. H. V. Kojola and M. O'Brien. 2,278,521; Apr. 7.
Acetylene generator. E. H. Van Valkenburg. 2,278,955; Apr. 7.
Acids and anhydrides, Purification of aliphatic. F. O. Cockerille. 2,278,831; Apr. 7.
Acyl-substituted compounds, Hydrogenation of. D. J. Loder. 2,278,549; Apr. 7.
Adhesive composition. J. G. Mark. 2,279,256; Apr. 7.
Adjuster, Clutch plate. C. W. Bauberger and E. T. Liess. 2,278,639; Apr. 7.
Adjusting device for clutch elements and the like. J. H. Wilson. 2,278,960; Apr. 7.
Advertising display, Cigarette. A. L. Dudek. 2,279,113; Apr. 7.
Air brake. D. A. Kaloshin. 2,278,700; Apr. 7.
Air conditioning apparatus. R. T. Brizzolara. 2,278,766; Apr. 7.
Aircraft armament. A. M. Pishvanov. 2,278,482; Apr. 7.
Aircraft construction. J. W. Overbeke. 2,278,557; Apr. 8.
Air inflator mechanism. M. E. Mitchell. 2,278,664; Apr. 7.
Airplane. A. E. Raymond. 2,278,562; Apr. 7.
Airplane gear. E. M. Bertrán. 2,278,910; Apr. 7.
Airplane landing gear. L. C. Stearman. 2,279,074; Apr. 7.
Airplane propeller. H. M. Sensenich. 2,278,900; Apr. 7.
Air washer. W. E. Dunn. 2,278,432; Apr. 7.
Aliphatic compounds, Manufacture of. H. Dreyfus and L. Fallows. 2,278,537; Apr. 7.
Alkali metal alkoxides, Preparation of. D. J. Loder and D. D. Lee. 2,278,550; Apr. 7.
Alkenyloxy diarylamines. P. T. Paul. 2,278,559; Apr. 7.
Alky amino fatty acid, Making. C. O. Henke and F. McG. Schofield. 2,279,138; Apr. 7.
Almonds, peanuts and other similar nuts. A. Musher. 2,278,941; Apr. 7.
Alloy; *See*—
  Gold alloy.
  Magnesium base alloy.
  Silver alloy.
Alloy. R. Wassermann. 2,279,282–3; Apr. 7.
Alternating current circuit interrupter. V. Grosse. 2,279,040; Apr. 7.
Aluminum surfaces, Treating. C. J. Slunder. 2,279,252–3; Apr. 7.
Ammunition. W. Brun. 2,278,530; Apr. 7.
Ammunition feeding device. C. E. Gaskill and H. J. Hackman. 2,278,544; Apr. 7.
Anchor, Decoy. C. O. Smith. 2,278,594; Apr. 7.
Animal feed. G. I. Brown. 2,279,106; Apr. 7.
Animal protein material. A. Musher. 2,278,476; Apr. 7.
Annealing furnace. T. W. Munford. 2,278,891; Apr. 7.
Antenna. W. Peters. 2,278,560; Apr. 7.
Antenna coupling with coaxial line. W. Buschbeck. 2,278,531; Apr. 7.
Antenna tunable in its length. E. Warndl. 2,278,601; Apr. 7.
Apparatus for cementing wells. J. D. Chestnut and R. M. Cook. 2,279,287; Apr. 7.
Apparatus for classifying sheets. J. S. Kenney and A. L. Milton. 2,278,518; Apr. 7.
Apparatus for crowning containers under vacuum. J. Kantor. 2,279,266; Apr. 7.
Apparatus for determining the carbon pressure of gases, Method and. J. R. Gier, Jr. 2,279,231; Apr. 7.
Apparatus for discharging bins to conveyors. J. J. Neuman. 2,278,730; Apr. 7.
Apparatus for geophysical prospecting. T. Zuschlag. 2,278,506; Apr. 7.
Apparatus for liquid fuel burning stoves. J. G. Candido. 2,278,972; Apr. 7.
Apparatus for making animated motion pictures. G. Musaphia. 2,279,241; Apr. 7.
Apparatus for making salt. C. S. Robison. 2,279,061; Apr. 7.
Apparatus for manufacture of metal wool pads. C. Field. 2,278,979; Apr. 7.
Apparatus for obtaining etchable deposits on printing cylinders. A. A. Egli and C. Bökenkamp. 2,278,512; Apr. 7.
Apparatus for removing lacing threads from shoe uppers. J. Fossa. 2,278,435; Apr. 7.
Apparatus for screening pulp. A. D. Merrill. 2,278,729; Apr. 7.
Apparatus for seismic survey, Method and. J. L. Adler. 2,279,191; Apr. 7.
Apparatus for treatment of gases with sulphuric acid. S. W. Grossman and D. A. Rogers. 2,278,778; Apr. 7.
Apparatus for working surfaces. C. W. Tilton. 2,278,806; Apr. 7.
Apparatus for wrapping bead wires. C. H. Desautels. 2,278,533; Apr. 7.
Arc welding head, Automatic. P. Anderson. 2,278,968; Apr. 7.
Arc welding head, Automatic. W. E. Crawford. 2,278,975; Apr. 7.
Armor plate. A. J. Collins. 2,279,110; Apr. 7.
Armored ship construction. J. C. McQuerry. 2,278,938; Apr. 7.
Article elevating machine. H. F. A. Richard and A. R. Evett. 2,278,946; Apr. 7.
Article handling. A. J. Jenner. 2,278,449; Apr. 7.
Article holder. V. Kellems and J. Di Palma. 2,279,237; Apr. 7.
Article printing device. J. R. Gammeter. 2,278,652; Apr. 7.
Artificial structure and producing same. E. V. Lewis. 2,278,888; Apr. 7.
Ash tray. G. Tomsic. 2,279,026; Apr. 7.
Asphalt manufacture. J. C. Roediger. 2,278,671; Apr. 7.
Attachment for fishing line. C. Fernstrom. 2,278,842; Apr. 7.
Automatic finishing machine. E. W. Peterson. 2,278,584; Apr. 7
Automatic needle stop for bristling machine. W. P.-G. Hall. 2,279,055; Apr. 7.
Automobile door latch. H. W. Rightmyer. 2,279,290; Apr. 7.
Automobile starting and accessory circuit. W. E. St. George. 2,278,745; Apr. 7.
Auxin composition. S. B. Heath. 2,278,443; Apr. 7.
Azeotropic distillation. E. Field. 2,279,194; Apr. 7.
Back dump mechanism. L. Berner and C. B. Ogle. 2,278,508; Apr. 7.
Bag making machines, Plain or satchel. G. W. French. 2,279,279; Apr. 7.
Bag stringing needle, Automatic. E. E. West. 2,279,099; Apr. 7.
Balance. C. C. Veneman. 2,278,809; Apr. 7.
Bale tie and holder, Combination. S. Y. Taylor. 2,279,081; Apr. 7.
Bale tie making machine. G. K. Gaumer. 2,278,613; Apr. 7.
Ball. J. B. Dickson, R. A. Stafford, and P. E. Blanchfield. 2,278,649; Apr. 7.
Ball centers and article, Making. F. S. Martin. 2,278,551; Apr. 7.
Balls, Verifying the dimension and sphericity of. C. H. H. Rodanet. 2,278,800; Apr. 7.
Band pass filter. N. M. Rust and E. F. Goodenough. 2,278,801; Apr. 7.
Barrel conveyer. A. J. Schenk. 2,279,207; Apr. 7.
Basketball game apparatus. W. S. Kettering. 2,278,616; Apr. 7.
Bathing suit. V. Bowman. 2,279,222; Apr. 7.
Battery connector. S. E. Gibbs. 2,278,986; Apr. 7.
Battery ignition system for internal combustion engines. K. Straub. 2,278,679; Apr. 7.
Beans and similar baked products, Baked. A. Musher. 2,278,475; Apr. 7.
Beans, Treating cacao. W. J. Plews. 2,278,483; Apr. 7.
Bearing; *See*—
  Clutch throw-out bearing.
  Mine car bearing.
Bending machine. R. A. Gifford. 2,279,038; Apr. 7.
Bicycle lamp. C. J. James. 2,278,614; Apr. 7.
Bit; *See*—
  Drill bit.
Bituminous emulsion. W. C. Asbury and F. H. Garner. 2,278,684; Apr. 7.
Blind, Line. L. S. Hamer. 2,278,848–9; Apr. 7.
Block; *See*—
  Toy building block.
Boat, Metallic. E. Heckmann. 2,279,234; Apr. 7.
Boiler construction. E. W. Jorolemon. 2,278,699; Apr. 7.
Book construction. W. A. De Hart. 2,279,193; Apr. 7.
Boring device, Retracting. J. B. Giern and A. P. Anholtt. 2,278,845; Apr. 7.
Boring machine with attachment. E. A. Arp. 2,278,759; Apr. 7.
Boring tool. W. K. Young. 2,278,631; Apr. 7.
Boring tool holder. W. L. Groene. 2,278,988; Apr. 7.
Bottle cap. C. W. Goodwin. 2,279,263; Apr. 7.
Bottle closure. E. Greene and W. H. Forrest. 2,278,924–5; Apr. 7.

Bouquet holder. H. Erdmann. 2,278,773; Apr. 7.
Box: *See*—
Dynamite box.
Brace, Folding. P. M. and J. A. Virtue. 2,278,810; Apr. 7.
Bracket: *See*—
Oil filter bracket.
Brake: *See*—
Air brake. Friction brake.
Brake. A. W. Johnson and A. A. Benson. 2,279,274; Apr. 7.
Brake for hygroscopic instruments, Automatic. L. F. Carter. 2,278,913; Apr. 7.
Brake hanger bracket and retainer means. M. S. Johnson. 2,278,785; Apr. 7.
Brake lever, Emergency. T. P. Chase. 2,278,645; Apr. 7.
Brush. L. C. Herold. 2,278,928; Apr. 7.
Brush. C. L. Snyder. 2,279,209; Apr. 7.
Brush rigging. J. Youhouse. 2,278,604; Apr. 7.
Brushing apparatus for metallic strip. W. M. Quigley and E. S. Taylerson. 2,278,944; Apr. 7.
Building construction. H. E. Raymond. 2,278,797; Apr. 7.
Building construction. M. Wagner. 2,278,956; Apr. 7.
Bushing. L. E. Frost. 2,279,230; Apr. 7.
Bushing for encased electrical apparatus. P. L. Christensen. 2,278,974; Apr. 7.
Busy signal for automatic telephone systems. B. West and H. L. Johnson. 2,278,752; Apr. 7.
Button. F. A. Ballou, Jr. 2,279,259; Apr. 7.
Cabinet: *See*—
Paper dispensing cabinet. Towel dispensing cabinet.
Cabinet for phonograph records. S. Beder. 2,278,529; Apr. 7.
Cable: *See*—
Chain cable.
Calculating machine. F. A. Niemann. 2,279,054; Apr. 7.
Camera attachment. D. Mackintosh. 2,278,937; Apr. 7.
Camouflage material. C. S. Schofield. 2,278,898; Apr. 7.
Can handling mechanism. F. A. Fahey. 2,278,434; Apr. 7.
Can opener. L. Olschewski. 2,278,731; Apr. 7.
Candle, Multiwick floating. T. J. Muench. 2,279,175; Apr. 7.
Candle unit. O. D. Guilfoil, Jr. 2,279,137; Apr. 7.
Cap: *See*—
Bottle cap.
Car: *See*—
Mine car. Refrigerator car.
Card hanger. A. Fluss. 2,278,695; Apr. 7.
Carriage, Baby. A. G. Feldman. 2,278,582; Apr. 7.
Carton, Knock down. F. H. Groves. 2,279,233; Apr. 7.
Case: *See*—
Vanity case.
Cast resins, Apparatus for the preparation of. R. T. Fields. 2,278,858; Apr. 7.
Cast support. J. R. Vasko. 2,278,626; Apr. 7.
Casting machine. H. C. Winkel. 2,278,815; Apr. 7.
Catalyst regeneration. W. K. Brown. 2,278,509; Apr. 7.
Catalysts containing thorium, Regeneration of. K. Buchner. 2,278,644; Apr. 7.
Catalysts, Manufacture of. J. F. Sturgeon. 2,278,746; Apr. 7.
Catalysts, Reactivating. R. B. Day. 2,278,836; Apr. 7.
Catalytic apparatus. R. E. Nagle and L. P. Gaucher. 2,278,892; Apr. 7.
Cellulose glycollic acid, Making. W. R. Collings, R. D. Freeman, and R. C. Anthonisen. 2,278,612; Apr. 7.
Cellulosic material, Treatment of. A. W. Baldwin, J. G. Evans and C. E. Salkeld. 2,278,417; Apr. 7.
Cellulosic material, Treatment of. A. W. Baldwin, J. G. Evans, and C. E. Salkeld. 2,278,418; Apr. 7.
Cement retainer, Removable. G. Green. 2,279,039; Apr. 7.
Cement, Weighted. D. B. Edwards. 2,279,262; Apr. 7.
Centrifugal casting apparatus. W. S. Myers. 2,278,555; Apr. 7.
Centrifugal filling means for compression molds. G. Duden. 2,278,772; Apr. 7.
Centrifugal positive clutch. P. Orr. 2,278,623; Apr. 7.
Ceramic, abrasives, and the like from alumina, and product thereof, Making. J. A. Heany. 2,278,442; Apr. 7.
Cereals, grains, and similar products, Producing prepared. A. Musher. 2,278,465; Apr. 7.
Chain. F. H. Dalrymple. 2,279,134; Apr. 7.
Chain cable. S. H. Gordon. 2,278,874; Apr. 7.
Chains to tires, Device for applying. D. L. Clifford. 2,279,108; Apr. 7.
Chair and the like, Dental. A. J. May. 2,278,890; Apr. 7.
Chair arm. E. T. Todd. 2,278,749; Apr. 7.
Chairs, End standard for theater. L. Jiranek. 2,278,855; Apr. 7.
Charger, Electric fence. H. R. Wise. 2,278,577; Apr. 7.
Chassis, Automobile. L. G. Hurley. 2,279,120; Apr. 7.
Cheese composition. A. Musher. 2,279,202; Apr. 7.
Chemical compositions. F. H. Swezey, M. E. Bishop, and R. M. Hoffman. 2,278,747; Apr. 7.
Chime signal. L. Rittenhouse. 2,278,587; Apr. 7.
Chromite briquettes, Preparing. C. E. Dolbear. 2,279,033; Apr. 7.
Chronographic method and apparatus. E. F. Florman. 2,278,514; Apr. 7.
Chuck, Precise indexing. H. W. Eberhardt. 2,278,651; Apr. 7.
Cinematographic film and method. W. A. Callahan. 2,278,423; Apr. 7.
Circuit: *See*—
Automobile starting and Telephone circuit.
accessory circuit.
Circuit and relaxation oscillator, Time delay. W. S. Mortley. 2,279,007; Apr. 7.
Circuit governing device, Automatic. D. Kumpman. 2,278,705; Apr. 7.
Circuit interrupter, Electric. H. Korndörfer. 2,279,024; Apr. 7.
Clamp: *See*—
Manifold support pipe Solid wire and strand clamp. clamp.
Clamp for pipes, Repair. C. P. Stauffer. 2,278,714; Apr. 7.
Cleaning machine. O. J. Chayle. 2,278,769; Apr. 7.
Closure. J. M. Montellone. 2,278,462; Apr. 7.
Closure and seal, Receptacle. E. R. Wright. 2,279,155; Apr. 7.
Clutch: *See*—
Centrifugal positive clutch. Friction clutch.
Clutch throwout bearing. B. Loeffler and G. B. Martin. 2,278,663; Apr. 7.
Coal coloring method. G. F. Campbell. 2,278,413; Apr. 7.
Coating aggregate with bitumen. R. R. Thurston. 2,278,954; Apr. 7.
Coating apparatus. R. W. Hodil and J. C. Redmond. 2,279,166; Apr. 7.
Coating machine for coating sheets of matter. W. Recht. 2,278,563; Apr. 7.
Cocoa nib. A. Musher. 2,278,471; Apr. 7.
Coffee. A. Musher. 2,278,473; Apr. 7.
Coffee maker. F. E. Wolcott. 2,278,754; Apr. 7.
Coil and arrangement utilizing the same, Magnetic. B. M. Oliver. 2,278,478; Apr. 7.
Coin chute. F. A. Hoyt. 2,278,930; Apr. 7.
Coin control. J. W. Srodulski. 2,278,676; Apr. 7.
Colors of high alkali resistance, Glass. A. J. Deyrup. 2,278,868; Apr. 7.
Comb for carding machine. A. Cavedon. 2,278,611; Apr. 7.
Comb, Fountain. A. W. Wallenius. 2,278,811; Apr. 7.
Comb, Vibrator. W. M. Wattie. 2,279,098; Apr. 7.
Combustion engines, Controlling internal. L. E. Endsley. 2,279,037; Apr. 7.
Communication system. H. J. Nichols. 2,279,009; Apr. 7.
Commutator cover for dynamo-electric machines. C. H. Sutherland. 2,279,148; Apr. 7.
Commutator, Electronic. D. S. Bond. 2,278,641; Apr. 7.
Compensated meter. W. C. Wagner. 2,278,682; Apr. 7.
Composite article and making same. B. S. Garvey and D. E. Henderson. 2,278,777; Apr. 7.
Composite material. E. W. Rugeley, T. A. Feild, Jr., and J. F. Conlon. 2,278,895–6; Apr. 7.
Composite products comprising natural rubber and synthetic rubber for making the product. D. V. Sarbach. 2,278,802; Apr. 7.
Composition of matter and process for preventing water-in-oil type emulsions resulting from acidization of calcareous oil-bearing strata. M. De Groote and B. Keiser. 2,278,838; Apr. 7.
Compounds of the dibenzanthrone series. D. P. Graham. 2,278,987; Apr. 7.
Compressor for pamphlets and the like within cases. G. R. Thompson. 2,278,596; Apr. 7.
Condenser discharge ignition system. M. F. Peters and G. F. Blackburn. 2,278,481; Apr. 7.
Confection making method and apparatus. C. W. Spohr and R. F. Bracke. 2,278,574; Apr. 7.
Connector: *See*—
Battery connector.
Constant flow valve. C. M. Sears. 2,279,066; Apr. 7.
Container. W. W. Flagg. 2,278,870; Apr. 7.
Container. L. M. Harvey and R. Hill. 2,278,782; Apr. 7.
Container, and making same, Conical. J. E. Page. 2,279,289; Apr. 7.
Container and package. H. F. Waters. 2,278,502; Apr. 7.
Control apparatus. R. D. Evans and J. E. Hobson. 2,279,229; Apr. 7.
Control apparatus. A. W. Fisher. 2,279,117; Apr. 7.
Control for electric motors. C. J. Werner and W. E. Menzies. 2,278,575; Apr. 7.
Control mechanism. S. Mayner. 2,279,172; Apr. 7.
Control mechanism for internal combustion engines. F. G. and W. M. Folberth. 2,278,871; Apr. 7.
Control mechanism for printing presses. H. Kott. 2,278,933; Apr. 7.
Control system. R. D. Evans and C. F. Wagner. 2,279,228; Apr. 7.
Control system. A. E. Melhose and W. W. Tuthill. 2,278,460; Apr. 7.
Conversion system. G. L. Tanney. 2,279,149; Apr. 7.
Conveyer. A. D. Sinden. 2,279,070; Apr. 7.
Conveyer and coucher belt process and machine for thickening pulp. J. P. Rich and E. R. Burling. 2,278,525; Apr. 7.
Conveyer flight. H. Hudson. 2,278,853; Apr. 7.
Conveying and discharge device, Object. G. W. Whitehurst. 2,279,152; Apr. 7.
Conveying device. G. Maurer. 2,278,552; Apr. 7.

Cooking. L. H. Larson. 2,279,000; Apr. 7.
Cooking device. H. F. Herman. 2,279,196; Apr. 7.
Cooling means for discharge lamps. V. J. Francis and G. H. Wilson. 2,278,844; Apr. 7.
Copolymerized substance comprising a formyl group. C. E. Barnes. 2,278,528; Apr. 7.
Core taking apparatus. G. G. Harrington, J. C. Stokes, and B. R. Emrick. 2,278,780; Apr. 7.
Corrugating apparatus. S. Nyberg. 2,278,477; Apr. 7.
Couching. Method of an apparatus for. J. P. Rich. 2,278,526; Apr. 7.
Coupler. R. F. Schneller. 2,279,146; Apr. 7.
Coupler and hanger structure for screw conveyers, Combination. J. L. Kozak and C. F. Abraham. 2,279,201; Apr. 7.
Coupling: *See*—
Electromagnetic coupling. Tube coupling.
Shaft coupling.
Cover for meter enclosures. R. W. Grace. 2,279,165; Apr. 7.
Cover for textile rolls and making the same. C. H. Campbell. 2,278,424; Apr. 7.
Crate, Foldable. C. E. Pope. 2,279,247; Apr. 7.
Crate liner, Lettuce and carrots. B. F. Taylor and W. G. Simmons. 2,278,748; Apr. 7.
Crossbow. H. Dobson. 2,278,535; Apr. 7.
Crusher shafts, Suspension for. S. W. Traylor and C. H. Patten. 2,278,625; Apr. 7.
Crutch, Rolling. O. C. Smock. 2,278,901; Apr. 7.
Cup, Infant's drinking. C. E. Potter. 2,278,586; Apr. 7.
Current commutator motor, Alternating. A. S. Norcross. 2,278,622; Apr. 7.
Cutoff apparatus for plastic material. W. H. Emerson. 2,278,513; Apr. 7.
Cutter: *See*—
Rotary finishing cutter.
Cutter. W. S. Praeg. 2,278,738; Apr. 7.
Cylinder, Printing. J. P. E. Neilson. 2,279,204; Apr. 7.
Deenameling process. H. C. Kremers. 2,279,267; Apr. 7.
Deicing apparatus. E. L. Vail. 2,278,716; Apr. 7.
Delustering and pigmenting. G. P. Hoff. 2,278,878; Apr. 7.
Depicting objects, Method and device for. H. I. Kallmann and E. Kuhn. 2,279,023; Apr. 7.
Detector for frequency modulation signals. J. D. Reid. 2,279,058; Apr. 7.
Detergent composition. W. B. Pratt. 2,279,248; Apr. 7.
Device to motivate roller carriages on overhead tracks. W. J. Laufersweiler and R. E. Thompson. 2,278,706; Apr. 7.
Die. T. J. Buckey. 2,279,131; Apr. 7.
Die. L. G. Freeman. 2,278,542; Apr. 7.
Die assembly. C. S. Knight. 2,278,618; Apr. 7.
Direction indicator for road vehicles. H. Hollmann. 2,278,653; Apr. 7.
Discharge for centrifugal machine. J. Hertrich. 2,279,235; Apr. 7.
Dishwasher and impeller therefor. G. E. Stockham. 2,278,953; Apr. 7.
Dishwashing machine. T. E. D. Bilde. 2,278,823; Apr. 7.
Disk, Grinding. I. R. Shue. 2,279,278; Apr. 7.
Dispensing mechanism. J. L. Myers. 2,278,793; Apr. 7.
Distillation process. E. H. French. 2,278,543; Apr. 7.
Divan bed. J. D. Bell. 2,279,286; Apr. 7.
Dobby cord terminal. B. T. Clark. 2,279,132; Apr. 7.
Door construction. K. D. McMahan. 2,279,005; Apr. 7.
Door latch operator. J. W. Dickason. 2,278,534; Apr. 7.
Door or window frame construction. C. D. Lowry. 2,279,171; Apr. 7.
Dowel bar support. J. G. Curry. 2,278,917; Apr. 7.
Drain fitting. M. F. Schaible. 2,278,566; Apr. 7.
Drawing and observing device. H. H. Barnard. 2,278,685; Apr. 7.
Drill bit. J. V. Pennington. 2,279,129; Apr. 7.
Drill holder and article, Safety percussion. E. T. Luttgens. 2,278,707; Apr. 7.
Drill, Mud treating. T. H. Dunn. 2,278,841; Apr. 7.
Drying apparatus. C. L. Hunsicker. 2,278,854; Apr. 7.
Dust collector and drill hole cleaner, Combined. W. F. Terry. 2,279,186; Apr. 7.
Dyes and composition containing the same, Photographic sensitizing. E. B. Middleton. 2,278,461; Apr. 7.
Dyes, Azo. S. S. Rossander and C. E. Sparks. 2,278,491; Apr. 7.
Dyestuffs of the anthraquinone series. W. Dettwyler. 2,278,977; Apr. 7.
Dyes, Pentakisazo. S. S. Rossnader and C. E. Sparks. 2,278,492; Apr. 7.
Dynamite box. J. V. Hammond. 2,278,850; Apr. 7.
Earth moving equipment. G. I. Clark. 2,278,829; Apr. 7.
Elastic spring and resilient wheel. E. H. Piron and C. F. Hirshfeld. 2,278,711; Apr. 7.
Electric clock. M. Schlenker. 2,279,015; Apr. 7.
Electric contact apparatus. J. Goerth. 2,278,846; Apr. 7.
Electric current rectifiers of the selenium type, Alternating. L. E. Thompson and A. Jenkin. 2,279,187; Apr. 7.
Electric heater. L. A. Kempton. 2,278,994; Apr. 7.
Electric measuring instrument. R. Modlinger. 2,279,053; Apr. 7.
Electric plug. R. McCutcheon. 2,279,173; Apr. 7.
Electric range. E. A. Rutenber. 2,279,064; Apr. 7.
Electric regulator. J. L. Creveling. 2,278,770; Apr. 7.
Electric steam iron. H. Thellgaard. 2,279,215; Apr. 7.
Electrical contacter, Traveling. B. W. Benbow. 2,278,761; Apr. 7.
Electrical control apparatus. H. A. Douglas. 2,278,840; Apr. 7.
Electrical distribution system. K. Schmitt. 2,278,496; Apr. 7.
Electrical induction apparatus. J. M. Weed and J. R. Meador. 2,279,027; Apr. 7.
Electrical induction apparatus. J. M. Weed. 2,279,028; Apr. 7.
Electrical insulator attachment device. S. T. Hoffman. 2,278,852; Apr. 7.
Electrodes of arc furnaces, Automatically controlling the. W. H. Payne. 2,278,480; Apr. 7.
Electromagnetic apparatus. E. W. Boehne. 2,278,971; Apr. 7.
Electromagnetic apparatus. M. B. Sawyer. 2,279,014; Apr. 7.
Electromagnetic coupling. R. A. Baudry. 2,278,507; Apr. 7.
Electromagnetic mechanism. J. W. Allen. 2,278,967; Apr. 7.
Electron discharge device. J. W. West. 2,278,628;
Electron valve. E. Winter. 2,278,630; Apr. 7.
Element, Contact. V. H. Sanders, N. J. Schaberl and E. I. Shobert, II. 2,278,592; Apr. 7.
Engine: *See*—
Fluid engine. Rotary engine.
Engine starting mechanism. R. M. Nardone. 2,279,126; Apr. 7.
Evaporator, Freezing. W. Kleinow. 2,279,049; Apr. 7.
Exercising device. A. F. Sak. 2,278,591; Apr. 7.
Exercising horse. M. J. Burke. 2,278,861; Apr. 7.
Expansible closure means for conduits. B. Svirsky. 2,279,257; Apr. 7.
Fabric: *See*—
Flanged wire fabric. Knitted fabric.
Fabric for garment edging. N. E. Randall. 2,279,206; Apr. 7.
Facsimile apparatus. G. L. Erickson and R. J. Wise. 2,278,919; Apr. 7.
Fastener: *See*—
Sheet metal fastener.
Fastening device. B. Cotter. 2,278,691; Apr. 7.
Fastening device. C. T. Langmaid. 2,278,790; Apr. 7.
Fastening devices, Making. W. H. Miller. 2,278,708; Apr. 7.
Faucet, Automatic. J. W. James. 2,278,655; Apr. 7.
Feed mechanism, Strip stock. C. Fischer. 2,278,921; Apr. 7.
Feeder: *See*—
Typewriter feeder.
Fertilizer manufacture. F. G. Keenen. 2,279,200; Apr. 7.
Filamentary material, Device for cutting. A. Lodge. 2,278,662; Apr. 7.
Film protected surface, Laminated. D. L. Gibb and A. B. Savage. 2,278,515; Apr. 7.
Filter: *See*—
Band pass filter. Plate filter
Harmonic attenuation filter.
Filter. L. W. Williams. 2,278,603; Apr. 7.
Fire resistant composition. H. K. Linzell and J. W. Gill. 2,278,455; Apr. 7.
Firearm. P. G. Rutherford. 2,278,589; Apr. 7.
Fishing fly. W. E. Hart. 2,278,876; Apr. 7.
Fixture joint. V. Follet. 2,278,720; Apr. 7.
Flanged wire fabric. E. L. Blackburn. 2,278,859–60; Apr. 7.
Flaring and swedging tool. E. E. Kellems. 2,278,932; Apr. 7.
Float and trowel, Plasterers'. E. Stabbert. 2,278,803; Apr. 7.
Floor selector for elevators. D. H. Baum. 2,279,220; Apr. 7.
Flowing device, Weight actuated. A. Boynton. 2,278,420; Apr. 7.
Fluid density measurement. R. E. Irwin. 2,279,254; Apr. 7.
Fluid engine. C. W. H. D. Bennet and A. J. E. Rylander. 2,278,821; Apr. 7.
Fluid level device. P. J. Harrington. 2,279,043; Apr. 7.
Fluid meter. W. S. Clarkson. 2,278,830; Apr. 7.
Fluid pressure regulator. E. W. McKinley. 2,278,728; Apr. 7.
Fluid seal for pressure vessels. R. M. Jones. 2,278,721; Apr. 7.
Flushing oil. G. L. Matheson and R. Rosen. 2,279,001; Apr. 7.
Foldable frame. M. Segre. 2,278,568; Apr. 7.
Foldable table. S. D. Kovalchuk. 2,279,122; Apr. 7.
Food materials, Starchy. A. Musher. 2,278,470; Apr. 7.
Food products and producing the same, Expanded. A. Musher. 2,278,463; Apr. 7.
Food products, Dehydrated prefrozen. A. Musher. 2,278,472; Apr. 7.
Food units and making the same, Quickly disintegratable bonded. A. Musher. 2,278,466; Apr. 7.
Folder, Advertising. S. R. Gettleman. 2,279,164; Apr. 7.
Footwear, Conductive. A. Siers. 2,279,094; Apr. 7.
Form for casting reflecting face curb. E. Behringer and M. R. Harrison. 2,279,104; Apr. 7.
Forming machine. G. S. Hoell. 2,279,197; Apr. 7.

Frame: *See*—
Foldable frame.
Freezer, Refrigerator ice cream. L. H. Knibb. 2,278,617; Apr. 7.
Frequency changing device. G. H. Pohm. 2,278,669; Apr. 7.
Frequency control system. J. L. Clarke. 2,278,690; Apr. 7.
Frequency modulation. F. H. Kroger. 2,278,658; Apr. 7.
Frequency modulation. E. S. Winlund. 2,279,030; Apr. 7.
Friction brake. P. A. Scott-Iversen. 2,279,251; Apr. 7.
Friction clutch. W. C. Osterholm. 2,278,556; Apr. 7.
Fruits and vegetables. A. Musher. 2,278,469; Apr. 7.
Fruits and vegetables in coloring rooms, Stacking and treating. B. C. Skinner. 2,278,571; Apr. 7.
Fuel injection apparatus. W. M. Nichols. 2,279,010; Apr. 7.
Fuel supply system, Torque controlling. M. J. Kittler and S. M. Udale. 2,279,048; Apr. 7.
Fuel system, Hydraulic drive. D. Samiran and R. B. Poole. 2,278,493; Apr. 7.
Furnace: *See*—
Annealing furnace.
Furniture, Infant. C. G. Carlson. 2,278,414; Apr. 7.
Furring for mounting wallboard. L. W. Benz. 2,278,822; Apr. 7.
Furyl vinyl ketone and homologues. C. E. Barnes. 2,278,638; Apr. 7.
Game apparatus. W. H. Tweed, Jr. 2,278,808; Apr. 7.
Garment. L. Mintzes. 2,279,125; Apr. 7.
Garment carrying fixture for carrying luggage. A. Levine. 2,278,935; Apr. 7.
Garment hanger. M. A. Busse. 2,278,912; Apr. 7.
Garment hanger support and transfer device. J. L. Wheeler. 2,278,813; Apr. 7.
Gas bomb discharge means, Irritant. F. Sabini. 2,278,949; Apr. 7.
Gas producer apparatus. A. Riccardi. 2,278,798; Apr. 7.
Gas tube. R. H. Badgley. 2,278,964; Apr. 7.
Gauge and indicator, Electrical tire pressure. L. J. Keilen. 2,279,140; Apr. 7.
Gauge and inflator mechanism, Pneumatic. H. W. Fowler. 2,278,776; Apr. 7.
Gauge for determining valve clearance. A. R. Orr. 2,278,710; Apr. 7.
Gauge protection and illumination, Water. E. S. Brownback. 2,278,825; Apr. 7.
Gear: *See*—
Airplane gear. Airplane landing gear.
Gear and pinion. S. Way. 2,279,216; Apr. 7.
Gear cutters, Relieving. E. Wildhaber. 2,278,576; Apr. 7.
Gear finishing machines. M. B. Mentley. 2,278,792; Apr. 7.
Gearing. J. T. Ivy. 2,278,880; Apr. 7.
Generator: *See*—
Acetylene generator.
Generator control system. W. O. Baer and E. W. Seeger. 2,278,632; Apr. 7.
Geochemical prospecting. L. Horvitz. 2,278,929; Apr. 7.
Glass and plastic therefor, Laminated safety. J. D. Ryan. 2,279,145; Apr. 7.
Glass articles, Manufacture of. E. E. Slick. 2,278,572; Apr. 7.
Glass composition and product thereof. E. D. Tillyer, H. R. Moulton, and T. M. Gunn. 2,278,501; Apr. 7.
Glaze of low maturing temperature for use in decorating ceramic ware, Lead free. A. J. Deyrup. 2,278,867; Apr. 7.
Globe, Illuminated. R. R. Dupler. 2,279,162; Apr. 7.
Glue, Production of a resin-like casein. T. Sparre. 2,279,096; Apr. 7.
Gold alloy, Amethyst colored. L. Weiss and J. Spanner. 2,278,812; Apr. 7.
Golf ball testing machine. R. Atti. 2,278,416; Apr. 7.
Graph printing tabulator. J. W. Armbruster. 2,278,409; Apr. 7.
Gravimeter, Torsion. J. M. Crawford and H. R. Prescott. 2,279,261; Apr. 7.
Gravity measurement device, Specific. J. F. Luhrs. 2,279,255; Apr. 7.
Grinding machine. J. H. Hoern and E. J. Gabriel. 2,278,784; Apr. 7.
Guard, Detachable grain saving. C. J. Wiersig. 2,278,814; Apr. 7.
Gun. A. Riccardi. 2,278,799; Apr. 7.
Gun, Anti-aircraft. P. J. Bohan. 2,279,087; Apr. 7.
Hair curler. W. Finkelstein. 2,278,693; Apr. 7.
Hair curler rod. A. Madaras. 2,278,466; Apr. 7.
Hair curling device and curling hair. S. Freeman. 2,278,541; Apr. 7.
Hair waving appliance. G. Kepler. 2,278,857; Apr. 7.
Halo-substitution of unsaturated organic compounds. F. F. Rust and W. E. Vaughan. 2,278,527; Apr. 7.
Hamper basket truck. J. Smart. 2,278,950; Apr. 7.
Hand signal. W. M. Williams. 2,279,029; Apr. 7.
Hanger: *See*—
Cord hanger. Garment hanger.
Hard facing material and making the same. M. A. Matush. 2,279,003; Apr. 7.
Hardness tester. E. E. Hoffman. 2,279,264; Apr. 7.
Harmonic attenuation filter. O. S. Meixell. 2,278,620; Apr. 7.
Hats, Method of and apparatus for forming. G. Cipriano. 2,278,865; Apr. 7.
Heat controlling and regulating device. A. Cahn. 2,279,107; Apr. 7.
Heat controlling system. M. L. Nelson. 2,279,025; Apr. 7.
Heat screen for projection apparatus. E. D. Tillyer. 2,279,084; Apr. 7.
Heat treated and hardened article of manufacture made of fine grained deep hardened steels. A. M. Talbot and W. C. Mearns. 2,279,079; Apr. 7.
Heater: *See*—
Electric heater. Liquid heater.
Heater plug. C. H. Judisch. 2,279,265; Apr. 7.
Heating and air conditioning method and apparatus. R. Follansbee. 2,278,843; Apr. 7.
Heating device. T. C. Zolik. 2,278,683; Apr. 7.
Heel for boots and shoes. H. Colburn. 2,279,109; Apr. 7.
High frequency grid modulator. D. Pollack. 2,279,056; Apr. 7.
High frequency signaling system. H. Roder. 2,279,062; Apr. 7.
High tension dry contact rectifier apparatus. H. J. F. Alriq. 2,279,101; Apr. 7.
Holder: *See*—
Article holder. Bouquet holder.
Bale tie and holder. Hone and holder.
Boring tool holder. Mason's line holder.
Holder for test tubes and the like. R. B. and W. E. Street. 2,279,075; Apr. 7.
Hone and holder, Razor. S. K. Morrow. 2,278,553; Apr. 7.
Horn motor and relay unit. W. J. Rady. 2,278,561; Apr. 7.
Humidifier. W. J. Woolley. 2,278,755; Apr. 7.
Hydraulic control. H. S. Pardee. 2,279,176; Apr. 7.
Hydraulic cutting machine. W. J. Riddle. 2,278,713; Apr. 7.
Hydraulic motion controlling governor or check. E. Davis. 2,279,160; Apr. 7.
Hydraulic pump. J. F. Patton. 2,278,795; Apr. 7.
Hydraulic vehicle power transmission. W. Black. 2,279,019; Apr. 7.
Hydraulic vehicle propulsion system. H. J. Nathan. 2,279,008; Apr. 7.
Hydrocarbons, Catalytic conversion of. W. F. Huppke. 2,279,198–99; Apr. 7.
Hydrocarbons, Catalytic cracking of. R. F. Ruthruff. 2,278,590; Apr. 7.
Hydrocarbons from fuel gases, Recovery of. P. E. Kuhl. 2,278,999; Apr. 7.
Hydrocarbons, Production of. W. Michael and E. Plauth. 2,279,052; Apr. 7.
Hydrocarbons, Synthesizing sulphur-bearing, high molecular weight. L. L. Davis, B. H. Lincoln, and G. D. Byrkit. 2,278,719; Apr. 7.
Hydrogen peroxide, Manufacturing. G. Adolph and M. E. Bretschger. 2,278,605; Apr. 7.
Hydrometer. J. L. Schwartz. 2,278,497; Apr. 7.
Hydropneumatic power unit. W. B. Reed. 2,279,057; Apr. 7.
Ice breaker. F. Fink. 2,279,116; Apr. 7.
Ice cream. C. H. Parsons and E. C. Scott. 2,279,205; Apr. 7.
Ice cream bar making machine. H. W. Grau. 2,278,923; Apr. 7.
Ice cream mixture. A. Musher. 2,279,203; Apr. 7.
Identification of vehicles, Device for. M. Schuermans and A. Baret. 2,278,567; Apr. 7.
Ignition system. J. J. Rose. 2,278,490; Apr. 7.
Illuminated dial instrument. N. J. Smith and W. L. Thomas. 2,278,951; Apr. 7.
Illuminating device. D. I. Critoph, H. S. Schrader, and O. W. Richards. 2,278,916; Apr. 7.
Impulse distributing means. C. J. Fitch. 2,278,980; Apr. 7.
Impulse switch. C. L. Davidson. 2,278,918; Apr. 7.
Incandescent electric lamp. W. P. Zabel. 2,278,816; Apr. 7.
Indicating device. J. H. Blankenbuehler. 2,279,157; Apr. 7.
Indicating device, Thermal energy responsive. G. E. Barnhart. 2,278,908; Apr. 7.
Indicator: *See*—
Road indicator. Voltage indicator.
Inductor alternator. E. C. Homer and W. D. Buckingham. 2,278,654; Apr. 7.
Insect screen. W. Dubilier. 2,278,538; Apr. 7.
Instrument, Measuring. J. L. Graves. 2,278,440; Apr. 7.
Insulated building structure. J. R. Parsons. 2,278,732; Apr. 7.
Insulated support for lighting units. S. B. Kraut. 2,279,170; Apr. 7.
Interpolymers of unsymmetrical dichloroethylene. H. W. Arnold. 2,278,415; Apr. 7.
Iron: *See*—
Electric steam iron.
Iron and dampener, Electric. E. P. Schreyer. 2,279,179; Apr. 7.
Ironing machine, Gusset. J. B. Williams. 2,278,959; Apr. 7.
Joint: *See*—
Fixture joint. Water pipe joint.
Journal lubricator. J. J. Hennessy. 2,278,583; Apr. 7.
Ketones, Condensation of. C. A. Cohen. 2,279,020; Apr. 7.

Knitted fabric. E. St. Pierre. 2,278,904; Apr. 7.
Knitted metallic fabric for belting and other uses. R. L. Hartwell. 2,278,926; Apr. 7.
Knitting machine. H. G. Dickens. 2,278,869; Apr. 7.
Knitting machine. M. C. Miller. 2,278,522; Apr. 7.
Kovar-glass seals. P. R. Kalischer and H. H. Schmitt. 2,279,168; Apr. 7.
Lamp: *See*—
Bicycle lamp. Spot lamp.
Incandescent electric lamp.
Lamp. L. K. Perry. 2,278,734; Apr. 7.
Lamp and radio receiving set, Combined. D. J. Crowley. 2,278,835; Apr. 7.
Lamp assembly. A. O. Elting. 2,279,034; Apr. 7.
Lamp fixture. A. O. Elting. 2,278,433; Apr. 7.
Lamp fixture. A. O. Elting. 2,279,035–6; Apr. 7.
Lamp unit. C. W. Anklam. 2,279,103; Apr. 7.
Lamps, Incandescent. A. de Castro. 2,278,837; Apr. 7.
Lasting machine. T. P. Courchene. 2,278,428; Apr. 7.
Laundry machine. H. D. Brotman. 2,278,824; Apr. 7.
Legume. A. Musher. 2,278,468; Apr. 7.
Lifting attachment for tractors. B. Calvert. 2,278,412; Apr. 7.
Lighting equipment for cigarettes and the like. L. E. Boucher. 2,278,642; Apr. 7.
Lighting, Flood. A. L. Hobart. 2,278,877; Apr. 7.
Liquefiable hydrocarbons from gases or gaseous fluids, Recovering. J. P. Walker. 2,278,750; Apr. 7.
Liquid congealing apparatus. J. H. Ashbaugh. 2,278,408; Apr. 7.
Liquid heater. N. B. Leo. 2,278,619; Apr. 7.
Liquids, Device for raising and aerating. C. A. Hasslacher and H. W. Rimbach. 2,278,991; Apr. 7.
Lock: *See*—
Outboard motor lock.
Lock chuck for rock drills, Double. A. H. Katterjohn. 2,278,931; Apr. 7.
Lock washer to bolt assembly machine. W. D. Chilton. 2,278,689; Apr. 7.
Loom. O. P. Caron. 2,278,862; Apr. 7.
Loose-leaf binder. J. Schade. 2,278,565; Apr. 7.
Lubricant. D. E. Bergen. 2,278,762; Apr. 7.
Lubricating oil composition. E. S. Hillman. 2,278,851; Apr. 7.
Lubrication. E. H. Kocher. 2,278,452; Apr. 7.
Lubricator: *See*—
Journal lubricator.
Luminescent screens, Forming. W. J. Scott and J. T Anderson. 2,278,742; Apr. 7.
Machine for testing blasting cap shells. J. Stuart, II. 2,278,804; Apr. 7.
Magnesium base alloy. J. C. McDonald. 2,278,725–6; Apr. 7.
Magneto-electric machine. G. W. Rawlings. 2,278,489; Apr. 7.
Manhole device. H. Schorer. 2,278,899; Apr. 7.
Manifold support pipe clamp, Exhaust. R. I. Markey. 2,279,090; Apr. 7.
Manipulation of acetic acid. B. F. Branting. 2,278,765; Apr. 7.
Manual fire alarm system. M. W. Muehter. 2,278,939; Apr. 7.
Marking device. K. R. Stauss. 2,279,073; Apr. 7.
Mason's line holder. G. Perry. 2,278,735; Apr. 7.
Master brake cylinder and switch unit. A. A. Bluemle. 2,278,579; Apr. 7.
Material and making same, Refractory and abrasive. R. C. Benner, H. N. Baumann, Jr., and G. J. Easter. 2,279,260; Apr. 7.
Material grinding machine. A. D. and L. R. Baker. 2,279,219; Apr. 7.
Material serving apparatus. W. C. Ewaldson and J. A. O'Handley. 2,279,114–15; Apr. 7.
Materials, Cutting. J. F. McCashen. 2,278,459; Apr. 7.
Meat-slitting machine. J. P. Spang. 2,279,071–2; Apr. 7.
Mechanical drive. W. C. De Roo. 2,278,648; Apr. 7.
Mechanical loader for riveting machines. D. C. Draper. 2,279,226; Apr. 7.
Medicinal preparation. A. Musher. 2,278,464; Apr. 7.
Metal and producing the same, Calorized. L. V. Adams. 2,279,268; Apr. 7.
Metal bonded abrasive body. J. Hinnüber and E. Ammann. 2,279,045; Apr. 7.
Metal, Coating sheet. R. J. Wean. 2,278,600; Apr. 7.
Metal derivatives of amlo methylene aldehydes. A. J. van Peski, N. Max, and J. A. van Melsen. 2,278,965; Apr. 7.
Metalworker's tool. M. C. Herget. 2,279,089; Apr. 7.
Metallic coating. J. Loiseleur. 2,278,722; Apr. 7.
Meter: *See*—
Compensated meter. Rate of climb meter.
Fluid meter. Watthour meter.
Methanol, Obtaining. W. D. Wilcox. 2,279,153; Apr. 7.
Mica containing pigment and making the same. F. C. Atwood. 2,278,970; Apr. 7.
Micrometer adjustment device. R. E. Reason and T. W. Clifford. 2,278,945; Apr. 7.
Milling machine attachment. G. L. Preston. 2,278,897; Apr. 7.
Mine car bearing. R. C. Kepner. 2,278,883; Apr. 7.
Mine car, Spring mounted. H. H. Pancake. 2,278,893; Apr. 7.
Mineral oil composition and improving agent therefor. D. E. Badertscher, R. H. Williams, and H. G. Berger. 2,279,218; Apr. 7.
Mining machine. R. K. Jeffrey. 2,278,656; Apr. 7.
Mitt or glove, Powder-applying. H. Worth and M. D. Goldsmith. 2,279,100; Apr. 7.
Mixer, Liquid. J. F. Malsbary and W. W. Taylor. 2,278,723; Apr. 7.
Moisture disposal system for air cooled air conditioning units. J. M. Grultch. 2,278,989; Apr. 7.
Mold: *See*—
Terrazzo mold.
Mold for electric welding. S. C. Heist. 2,279,044. Apr. 7.
Mold for making curved composite building blocks. E. T. Putnam. 2,279,178; Apr. 7.
Molding. J. H. Wernig. 2,278,627; Apr. 7.
Motion picture apparatus. A. Duskes. 2,279,022; Apr. 7.
Motor: *See*—
Current commutator motor. Windshield wiper motor.
Vibrating-contact motor.
Motor. O. H. Simmons. 2,279,069; Apr. 7.
Motor control system. B. O. Austin. 2,278,608; Apr. 7.
Motor-driven mechanism. L. C. Packer and E. C. Tanner. 2,278,624; Apr. 7.
Motor fuel distillates, Refining cracked. H. Heinemann. 2,279,195; Apr. 7.
Motor, Plug-reversing capacitor-start induction run L. W. Buchanan. 2,279,223; Apr. 7.
Motor protective device, Thermal. C. G. Veinott. 2,279,214; Apr. 7.
Motor with plugging reversing connections, Self-starting single-phase induction. W. C. Spear. 2,279,210; Apr. 7.
Mounting: *See*—
Seat post mounting. Spring mounting.
Mud barrier from oil wells, Removing. T. A. Bertness, N. Johnston, and D. O. Newton. 2,278,909; Apr. 7.
Multicolor printing, Registering device for. F. Shurley. 2,278,570; Apr. 7.
Multipath effects, Reducing. C. W. Hansell. 2,278,779. Apr. 7.
Nesting device. E. E. Stimson. 2,279,147; Apr. 7.
Network system of distribution. J. S. Parsons. 2,279,244; Apr. 7.
Newspaper stuffing machine. I. Tornberg and H. C. Jordhoy. 2,279,270; Apr. 7.
Nickel iron powder, Producing. P. N. Roseby. 2,279,013; Apr. 7.
Noise suppression circuit. L. Kamenarovic. 2,279,275; Apr. 7.
Nut. A. Musher. 2,278,467; Apr. 7.
Nut and manufacturing the same. L. A. Young. 2,278,962; Apr. 7.
Off-setting arrangement for boring tools and the like. H. L. Blood. 2,279,221; Apr. 7.
Oil and process, Drying. I. M. Colbeth. 2,278,425–7; Apr. 7.
Oil, Compounded lubricant. R. F. Bergstrom. 2,279,086; Apr. 7.
Oil filter bracket. J. W. Wilkinson. 2,279,190; Apr. 7.
Oil testing device. T. L. Camp. 2,279,159; Apr. 7.
Oiling device, Automatic. C. Langbein and C. Gordon. 2,278,886; Apr. 7.
Oils, Producing polymerized. C. M. Hull. 2,278,445; Apr. 7.
Oils, Refining petroleum. H. C. Paulsen. 2,278,665; Apr. 7.
Olefins, Catalytic reaction of. E. E. Stahly and E. M Hattox. 2,278,677; Apr. 7.
Olive. A. Musher. 2,278,942; Apr. 7.
Optical system for cinematography. W. H. Harrison. 2,278,781; Apr. 7.
Oscillations, Demodulation of frequency modulated. R. G. Piety. 2,278,668; Apr. 7.
Oscillograph. W. H. Mayne. 2,279,124; Apr. 7.
Outboard motor lock. A. McWalters. 2,279,006; Apr. 7
Oxygen and the like from organic substances, Removal of B. H. Shoemaker. 2,279,277; Apr. 7.
Package. H. F. Phelps. 2,279,245; Apr. 7.
Packet making machine. D. B. Kidd. 2,278,787; Apr. 7.
Packing articles. T. L. Parker. 2,278,524; Apr. 7.
Pad for ironing table tops. E. T. John. 2,278,517; Apr. 7.
Panel, dial, and pointer structure, Illuminable. M. Klein and W. E. Pfeffer. 2,278,520; Apr. 7.
Paper carriage for accounting machines. W. A. Anderson. 2,278,820; Apr. 7.
Paper dispensing cabinet. J. B. Engel. 2,279,135; Apr. 7.
Paraffins, Process and catalyst for conversion of normal. M. W. Lee. 2,278,934; Apr. 7.
Pea, Green and yellow. W. J. Plews. 2,278,484; Apr. 7.
Peas, Preparing dehydrated. A. Musher. 2,278,280; Apr. 7.
Pen, Fountain. M. S. Baker. 2,278,907; Apr. 7.
Perforating machine. L. G. Thomas. 2,279,211-12; Apr. 7.
Petroleum and distillates thereof, Treatment of. 2,278,753; Apr. 7.
Phonograph. O. M. Dunning and L. Z. La Forest. 2,279,227; Apr. 7.
Phonographic warning signal. R. L. Stone. 2,278,678; Apr. 7.

Photoelectric smoke detection system. F. C. Evans and K. O. Donelian. 2,278,920; Apr. 7.
Photographic element, Nonhalation. M. Marasco. 2,278,457; Apr. 7.
Photographic materials. Treating color. B. Gáspár and L. Schwarc. 2,278,984; Apr. 7.
Photographic silver halide emulsions. O. Riester. 2,278,947; Apr. 7.
Picker, Bundle. P. Brownson and H. A. Keely. 2,278,610; Apr. 7.
Pictures in natural color with the use of corrected black and white film, Photographing and projecting stereoscopic motion. Roy E. Schensted. 2,279,281; Apr. 7.
Picture reproduction. P. B. Murphy. 2,278,940; Apr. 7.
Pie divider. H. P. Fest. 2,278,774; Apr. 7.
Pigment for coloring ceramic compositions. C. G. Geary. 2,278,872; Apr. 7.
Pigments and textile and other materials containing them, Production or treatment of. G. H. Ellis and E. Stanley. 2,278,540; Apr. 7.
Piezoelectric apparatus. A. L. W. Williams. 2,278,966; Apr. 7.
Pilot valve. S. E. B. Soderberg. 2,278,952; Apr. 7.
Pin stem finding. E. Morehouse. 2,278,523; Apr. 7.
Pipe still furnace structure. D. G. Brandt. 2,279,192; Apr. 7.
Piston. S. A. Larson. 2,279,238; Apr. 7.
Piston. P. E. White and A. V. Nicolle. 2,278,958; Apr. 7.
Piston and other rings for wire, Manufacture of. R. C. Cross. 2,279,133; Apr. 7.
Planting. H. M. Christensen. 2,278,864; Apr. 7.
Plaster board reinforcement. B. F. Arendt. 2,278,758; Apr. 7.
Plastics, Relief molding of. F. H. Shaw. 2,279,208; Apr. 7.
Plate filter. A. C. Kracklauer. 2,278,453; Apr. 7.
Plug: *See*—
Electric plug. Heater plug.
Plug and wrench therefor, Lifting. J. C. Fortune and R. W. Brown. 2,279,118; Apr. 7.
Plumbing structure. F. C. Kuhnle. 2,278,789; Apr. 7.
Polar relay system, Vibrating. A. L. Hopper. 2,278,444; Apr. 7.
Polishing apparatus. N. H. Nelson. 2,278,794; Apr. 7.
Polyvinyl formate, Preparation of. W. O. Herrmann and W. Haehnel. 2,278,783; Apr. 7.
Power brake. W. C. Oliver, II. 2,279,276; Apr. 7.
Power drive for pipe threading machines. P. L. Calvert. 2,278,768; Apr. 7.
Power plant. J. R. Henderson. 2,278,992; Apr. 7.
Power take-off connection. J. L. Green. 2,278,698; Apr. 7.
Pressing apparatus. J. L. Drake and G. B. Watkins. 2,279,112; Apr. 7.
Pressure vessel. G. T. Jacocks. 2,278,881-2; Apr. 7.
Printing roll. P. K. Frolich. 2,278,982; Apr. 7.
Production of artificial structures, Method and apparatus for the. G. De W. Graves. 2,278,875; Apr. 7.
Production of rubber-like finding agent for fibre substances. C. E. W. Oesterreich. 2,278,943; Apr. 7.
Propeller and deicing means therefor. J. Berge. 2,278,640; Apr. 7.
Protective device. G. Maerkisch. 2,279,051; Apr. 7.
Protein material, Preparing. P. Rauer. 2,278,670; Apr. 7.
Pump: *See*—
Hydraulic pump. Wave power actuated pump.
Rotary pump.
Pump. F. E. Stelzer. 2,278,595; Apr. 7.
Pump unit, Motor. R. T. Cornelius. 2,278,832; Apr. 7.
Quick start and stop drive mechanism for phonograph turntables. L. Thompson. 2,278,680; Apr. 7.
Radiant energy receiving system. M. H. A. Lindsay and H. J. Pearson. 2,278,936; Apr. 7.
Radio antenna system. M. Bruce. 2,279,130; Apr. 7.
Radio navigation aid. C. S. Cockerell and J. G. Robb. 2,279,031; Apr. 7.
Radio shielding conduit connection. D. Ingalls. 2,278,448; Apr. 7.
Radio receiving system, Panoramic. M. Wallace. 2,279,151; Apr. 7.
Radiogoniometer. G. Lehmann. 2,278,660; Apr. 7.
Rail bond. F. C. Lavarack and E. M. Deens. 2,278,659; Apr. 7.
Ratchet lever. M. E. McClellan. 2,279,004; Apr. 7.
Rate of climb meter. J. F. Taplin. 2,278,805; Apr. 7.
Razor, Electric. J. D. Altemus. 2,279,102; Apr. 7.
Reactance tube modulation. M. G. Crosby. 2,278,429; Apr. 7.
Receiver circuits. B. D. H. Tellegen. 2,279,185; Apr. 7.
Receiver, Directional. P. G. Cooper and C. D. Tuska. 2,279,021; Apr. 7.
Receiver, Superregenerative. K. Sohnemann. 2,279,095; Apr. 7.
Receiving apparatus for communication system. A. J. Sorensen. 2,279,184; Apr. 7.
Record controlled indicating mechanism. R. B. Johnson. 2,278,993; Apr. 7.
Recording apparatus. E. M. Orbeck. 2,279,288; Apr. 7.
Reel. F. S. Barks, L. C. Rotter, and V. G. Klein. 2,279,156; Apr. 7.
Refractories, Manufacture of basic. H. C. Lee. 2,278,454; Apr. 7.
Refractory, Cellular. W. S. Quigley and J. G. Coutant. 2,278,486; Apr. 7.
Refrigerated freight vehicles. J. J. Chiardio. 2,278,827; Apr. 7.
Refrigerating apparatus. W. B. Anderson and E. E. Grover. 2,279,272; Apr. 7.
Refrigerating machines arranged in cascade relationship. G. Maiuri. 2,278,889; Apr. 7.
Refrigeration. W. G. Kogel. 2,278,998; Apr. 7.
Refrigeration. A. Lenning and P. P. Standberg. 2,278,661; Apr. 7.
Refrigeration. B. Reistad. 2,279,059; Apr. 7.
Refrigeration. R. S. Taylor. 2,279,080; Apr. 7.
Refrigeration. A. R. Thomas. 2,279,082; Apr. 7.
Refrigeration. H. M. Ullstrand. 2,279,017; Apr. 7.
Refrigeration and gas system, Community. V. Stark. 2,279,097; Apr. 7.
Refrigerator. A. Lenning. 2,279,050; Apr. 7.
Refrigerator car. C. D. Bonsall. 2,278,763; Apr. 7.
Refrigerator car construction. C. E. Crede. 2,278,834; Apr. 7.
Register. G. C. Chase. 2,278,863; Apr. 7.
Regulator: *See*—
Electric regulator. Voltage regulator.
Fluid pressure regulator.
Relay system. S. E. McFarland. 2,278,727; Apr. 7.
Release mechanism. E. M. Roeder and W. Simonson. 2,278,588; Apr. 7.
Reminder appliance. C. H. Uhlir. 2,279,189; Apr. 7.
Remote control system. L. V. Lewis. 2,279,123; Apr. 7.
Resin of interpolymerized substances comprising acrylic or methacrylic anhydride. C. E. Barnes. 2,278,636–7; Apr. 7.
Resin comprising copolymers of divinyl ketone and diisoprokenyl ketone. C. E. Barnes. 2,278,635; Apr. 7.
Resins comprising the acrylic and methacrylic acid esters of the hydroxybiphenyls. C. E. Barnes. 2,278,634; Apr. 7.
Retracting mechanism for boring tools. G. D. Scott, G. A. Whittemore, and F. A. Glendon. 2,279,250; Apr. 7.
Rivet heading tool, Portable. A. E. Rylander. 2,278,741; Apr. 7.
Road indicator. E. Tedeschi. 2,278,905; Apr. 7.
Roaster, Coffee. W. T. Brophy. 2,278,767; Apr. 7.
Rod: *See*—
Hair curler rod.
Rotary engine. W. E. George. 2,278,696; Apr. 7.
Rotary finishing cutter. W. S. Praeg. 2,278,737; Apr. 7.
Rotary stuffing machine. I. Tornberg. 2,279,269; Apr. 7.
Rotary mower. L. Goodall. 2,278,922; Apr. 7.
Rotary pump. G. R. Funk. 2,279,136; Apr. 7.
Rotary pump. A. C. Roessler. 2,278,740; Apr. 7.
Rotary seal. A. M. Jackson. 2,279,167; Apr. 7.
Rotor for vibrators. F. G. Douglass. 2,278,839; Apr. 7.
Rubber and compositions employed therein, Making porous. M. M. Harrison and L. P. Gould. 2,278,411; Apr. 7.
Rubber forming method and apparatus. R. S. Boyle. 2,278,764; Apr. 7.
Rubber material, Method and apparatus for preparing and handling. G. F. Wikle. 2,278,602; Apr. 7.
Rubber, Reclamation of. W. G. Kirby and L. E. Steinle. 2,279,047; Apr. 7.
Rubber, Reclaimed. A. D. Castello and H. L. Dixon 2,278,826; Apr. 7.
Rubber, Treatment of. P. M. Elliott. 2,278,539; Apr. 7
Rubber, Treatment of. P. T. Paul. 2,278,558; Apr. 7.
Rubber-like composition neoprene and polyvinyl chloride. R. A. Crawford. 2,278,833; Apr. 7.
Safety winch. F. M. Thul. 2,278,681; Apr. 7.
Salts, Amine. F. B. Smith and J. N. Hansen. 2,278,499; Apr. 7.
Sander, Reversing. C. A. Campbell. 2,279,158; Apr. 7.
Sanding machine. R. A. Reid. 2,278,564; Apr. 7.
Scale, Conveyer weighing. H. A. Hadley. 2,279,041; Apr. 7.
Scale, Weighing. J. C. Sutton. 2,279,076; Apr. 7.
Scaler and scraper, Fish. E. Johnson. 2,279,139; Apr. 7.
Scraper. J. M. Corbett and R. B. Magee. 2,278,511; Apr. 7.
Screen: *See*—
Insect screen. Vibratory screen.
Screening apparatus. D. J. Harrington. 2,279,042; Apr. 7.
Screw. F. W. Braendel. 2,278,411; Apr. 7.
Seat and interchangeable back, Combination. J. Martin. 2,278,458; Apr. 7.
Seat post mounting. W. H. Baumker. 2,278,760; Apr. 7.
Selective control apparatus. H. J. Graham. 2,279,232; Apr. 7.
Sensitive device for measuring linear density of wire. E. U. Condon. 2,278,510; Apr. 7.
Separator for bottle milk and cream. J. C. Birchall. 2,279,273; Apr. 7.
Separator for bottled milk and cream. E. E. Kent. 2,278,451; Apr. 7.
Shaft coupling. A. F. Knight. 2,278,997; Apr. 7.
Shaping machine. W. F. Zimmermann. 2,278,757; Apr. 7.
Shear, Flying. D. A. Johnston. 2,278,786; Apr. 7.
Sheet material, Adhesive coated. M. Savada and W. Horowitz. 2,278,673; Apr. 7.
Sheet metal fastener. H. W. Kost. 2,279,169; Apr. 7.
Sheet, Pouring. G. W. Watrous. 2,278,751; Apr. 7.
Ship construction. J. H. Odenbach. 2,279,091; Apr. 7.

Shipping container anchor means. R. J. Kuhl. 2,278,885; Apr. 7.
Shirt. F. M. Titelman. 2,279,188; Apr. 7.
Shoe sewing machine. Le F. L. Shaw. 2,278,675; Apr. 7.
Shower. J. Thom. 2,279,150; Apr. 7.
Shuttle for weft replenishing looms. R. G. Turner. 2,278,597; Apr. 7.
Signal: *See*—
Chime signal. Photograph warning signal.
Hand signal.
Signal control. Le R. C. Paslay. 2,279,128; Apr. 7.
Signal inverter, Facsimile. K. B. Eller. 2,278,692; Apr. 7.
Signal inverter, Facsimile. F. L. O'Brien. 2,279,242; Apr. 7.
Signal system for single-phase motors. W. C. Spear. 2,278,573; Apr. 7.
Signal switch. P. Weien. 2,278,503; Apr. 7.
Signaling device. R. W. Sundius. 2,279,077; Apr. 7.
Silver alloy. R. Wassermann. 2,279,284; Apr. 7.
Sinusoidal grooves, Forming. B. Lewis. 2,278,791; Apr. 7.
Slack or cuttings removing attachments for kerf-cutting machines of the room and pillar type. T. E. Pray. 2,278,796; Apr. 7.
Sodium monoxide, Purification of. H. N. Gilbert. 2,279,088; Apr. 7.
Solenoid actuated valve. J. B. Parsons. 2,279,243; Apr. 7.
Solid wire and strand clamp. R. H. Burns. 2,278,717; Apr. 7.
Solidification of a liquid fuel allowing the total regeneration of the same from the solid combustibles. L. A. Greguoli and P. Donati. 2,278,847; Apr. 7.
Solvent extraction apparatus, Continuous. J. F. Cyphers, G. Scheu, and W. T. Jones. 2,278,647; Apr. 7.
Sorting machine. H. E. Veit. 2,278,599; Apr. 7.
Sound and picture reproducing apparatus, Combined. F. Freimann. 2,279,119; Apr. 7.
Sound deadener. P. G. Peik. 2,278,733; Apr. 7.
Sound recording method and system. W. V. Wolfe. 2,279,018; Apr. 7.
Sound reproducer. E. T. Turney. 2,278,598; Apr. 7.
Spark gap device. W. G. Roman. 2,279,249; Apr. 7.
Speed transmission device, Variable. F. L. Fuller. 2,278,983; Apr. 7.
Speed-varying drive. P. B. Reeves. 2,278,739; Apr. 7.
Spot lamp, Portable. G. E. Gravenstine. 2,278,545; Apr. 7.
Sprayer, Liquid. W. H. Rose. 2,278,672; Apr. 7.
Spraying apparatus for distributing machines. O. N. Gredell. 2,278,819; Apr. 7.
Spring mounting. P. Stadtler. 2,278,903; Apr. 7.
Spring suspension. W. W. Wood. 2,279,154; Apr. 7.
Sprinkling apparatus. W. H. Coles and B. J. Nelson. 2,278,580; Apr. 7.
Starting device. R. J. Herrington. 2,278,547; Apr. 7.
Steel and products thereof, Working. H. S. Schaufus. 2,278,494–5; Apr. 7.
Stencil for and process of printing. P. J. Csaszar. 2,278,771; Apr. 7.
Stocking with elastic strain absorbing band incorporating relaxed meshes. H. B. Snader. 2,279,181; Apr. 7.
Storage and handling systems, Liquid. H. L. Alexander, H. I. du Pont, and W. B. Foulke. 2,278,906; Apr. 7.
Stove construction. W. F. Rogers. 2,279,063; Apr. 7.
Street washing apparatus. J. J. Crume. 2,278,976; Apr. 7.
Stress transmitting device. A. Fiorentino. 2,278,775; Apr. 7.
Strip pickling and cleaning device, Continuous. F. J. Wood. 2,279,217; Apr. 7.
Suction cleaner. C. G. Troxler. 2,279,213; Apr. 7.
Sulphur from organic substances, Removal of. B. H. Shoemaker. 2,278,498; Apr. 7.
Super resilient wheel. E. H. Piron. 2,278,712; Apr. 7.
Superheterodyne receiving system. J. Plebanski. 2,279,177; Apr. 7.
Support: *See*—
Cast support. Dowel bar support.
Support for brushes and like articles. C. M. Drinkwater. 2,278,650; Apr. 7.
Supporting and display devices for boxes, Combined. H. A. Cowles. 2,278,914; Apr. 7.
Supporting and holding device for animals. A. Packchanian. 2,279,012; Apr. 7.
Surface marking apparatus. G. Rodli and R. W. Wilson. 2,278,948; Apr. 7.
Swaging machine. J. B. Tiedemann. 2,279,083; Apr. 7.
Sweeper, Carpet. E. B. Poggensee. 2,278,736; Apr. 7.
Switch: *See*—
Electrical switch. Signal switch.
Impulse switch. Thermal switch.
Safety switch. Thermostatic switch.
Switch construction. N. C. Schellenger. 2,279,065; Apr. 7.
Switch operating mechanism. J. Nicholson. 2,279,011; Apr. 7.
Swivel having improved mud joint, Hydraulic. G. R. Tremolada. 2,278,807; Apr. 7.
Synthetic porcelain for making artificial teeth and dental restorations. M. S. Shapiro. 2,279,067; Apr. 7.
Table: *See*—
Foldable table.
Table or truck, Lifting. W. Zeindler. 2,278,817; Apr. 7.
Tail oil, Processing of. E. Segessemann. 2,278,674; Apr. 7.
Tap or the like, Adjustable. C. C. Winter. 2,279,085; Apr. 7.
Tea leaf. A. Musher. 2,278,474; Apr. 7.
Telegraph record form, Printing. F. E. d'Humy. 2,279,161; Apr. 7.
Telephone circuit. G. L. Knittle. 2,278,702; Apr. 7.
Telephone coin collector. O. A. Friend. 2,278,436; Apr. 7.
Telephone conversation recording. J. J. Chiardio. 2,278,828; Apr. 7.
Telephone pay station. H. Dohle, H. Langner, and W. Schramm. 2,278,536; Apr. 7.
Telephone signaling system. C. A. Wingardner. 2,278,504; Apr. 7.
Telephone system. H. M. Bascom, L. J. Bowne, and N. Y. Priessman. 2,278,410; Apr. 7.
Telephone system. B. Kudrna and R. Schwartz. 2,278,548; Apr. 7.
Telephone system. W. Pinell. 2,278,585; Apr. 7.
Telephone system. W. Scheller. 2,278,593; Apr. 7.
Teletypewriting recording system. G. L. Knittle. 2,278,703; Apr. 7.
Television transmission system. U. Knick. 2,278,788; Apr. 7.
Temperature compensating means for instruments. W. G. Boettinger. 2,279,105; Apr. 7.
Temperature control apparatus. V. B. Bagnall. 2,278,633; Apr. 7.
Temperature control unit. W. Worth. 2,279,285; Apr. 7.
Terrazzo mold. J. Korizon. 2,278,884; Apr. 7.
Tester, Milk sediment. C. G. Petersen. 2,278,667; Apr. 7.
Theater chairs, End standard for. L. Jiranek. 2,278,855–6; Apr. 7.
Thermal switch. C. I. Hall. 2,278,990; Apr. 7.
Thermal treatment of carbonaceous materials. E. Anthea, W. V. Fuener, and W. Simon. 2,278,407; Apr. 7.
Thermo-couples, Forming. H. T. Sparrow and J. M. Wilson. 2,278,744; Apr. 7.
Thermostatic controlling device for furnaces. J. H. Henery. 2,278,927; Apr. 7.
Thermostatic element. E. A. Hoopes. 2,279,236; Apr. 7.
Thermostatic switch. H. W. Rimbach. 2,279,060; Apr. 7.
Thermostatic switch and automobile heater control circuits. R. K. Winning. 2,278,629; Apr. 7.
Thermostatically controlled electrical switch. E. Kumpman. 2,278,704; Apr. 7.
Thread cutter for automatic looms. E. P. Guerin. 2,278,546; Apr. 7.
Three row harvesting machine. J. B. Stimatze. 2,279,183; Apr. 7.
Thrust washer structure. T. J. Zeller and S. F. Lisbon. 2,278,578; Apr. 7.
Timing chemical reactions, Device for. S. S. Kistler. 2,279,121; Apr. 7.
Titanium dioxide pigments, Manufacture of. W. G. Moran. 2,278,709; Apr. 7.
Tong, Pipe. H. E. Grau and C. A. Lundeen. 2,278,439; Apr. 7.
Tool: *See*—
Boring tool. Rivet heading tool.
Flaring and swedging tool. Wire crimping and twisting tool.
Metal worker's tool.
Tool vibrating means. J. E. Kline and D. T. Peden. 2,278,657; Apr. 7.
Towel dispensing cabinet. D. G. Cowlin. 2,279,032; Apr. 7.
Toy building block. N. I. Paulson. 2,278,894; Apr. 7.
Toy piano. R. J. Lohr. 2,279,143–44; Apr. 7.
Transformer, High tension. A. Meyerhans. 2,279,239; Apr. 7.
Translating mechanism. C. R. Doty. 2,278,978; Apr. 7.
Transmission mounting for drilling rigs. E. L. Alexander and A. W. Braithwaite. 2,278,600; Apr. 7.
Transmitter, Photoelectric. L. M. Potts. 2,278,485; Apr. 7.
Tread plate. C. D. Morton. 2,278,554; Apr. 7.
Tree, Ornamental. E. L. Snyder. 2,279,182; Apr. 7.
Triarylmethane dyestuffs and process of preparing them. P. H. Wolff. 2,278,961; Apr. 7.
Trimmer, Window shade. E. Kearney. 2,279,046; Apr. 7.
Trimming device. E. V. Swanson. 2,279,078; Apr. 7.
Truck, Dump. A. D. L. Hutchinson. 2,278,446; Apr. 7.
Tube: *See*—
Gas tube.
Tube coupling. A. L. Parker. 2,278,479; Apr. 7.
Tube or gasket angles, Forming. W. A. Wright. 2,278,756; Apr. 7.
Tube seal-off, Vacuum. N. R. Smith. 2,278,500; Apr. 7.
Tube tester, Automatic. G. K. Gould. 2,278,697; Apr. 7.
Turbine blading. R. C. Allen and J. Wilson. 2,279,258; Apr. 7.
2-methoxy-5-aminobenzyl alcohol. D. X. Klein. 2,278,996; Apr. 7.
Two-way stretch strain absorbing band with aligned relax meshes. H. B. Snader. 2,279,180–1; Apr. 7.
Typeprinter unit. C. J. Fitch and K. R. Schneider. 2,278,981; Apr. 7.

Typewriter feeder. W. O. Critchfield. 2,278,915; Apr. 7.
Typewriting machine. J. J. Kittel. 2,279,141–42; Apr. 7.
Typewriting machine. M. H. Mann. 2,278,724; Apr. 7.
Typewriting machine. J. A. B. Smith and F. Becker. 2,278,743; Apr. 7.
Uncurling attachment for napping machines. D. Gessner. 2,278,985; Apr. 7.
Universal torch machine. J. L. Anderson. 2,278,607; Apr. 7.
Unloader, Press. F. W. Braun. 2,278,643; Apr. 7.
V-Boat. A. Gasparich. 2,279,163; Apr. 7.
Vacuum moistening apparatus. A. D. Karr. 2,278,701; Apr. 7.
Valve: *See*—
Constant flow valve. Pilot valve.
Electron valve. Solenoid actuated valve.
Valve. L. T. Stoyke and F. R. Venton. 2,278,715; Apr. 7.
Valve construction, Safety. P. H. Gentzel. 2,278,437; Apr. 7.
Valve device. C. A. Brown. 2,278,421; Apr. 7.
Valve device, Thermostatic. C. A. Brown. 2,278,422; Apr. 7.
Valve mechanism. C. I. MacNeil. 2,279,002; Apr. 7.
Valve operating mechanism. I. E. Arola. 2,278,963; Apr. 7.
Vanity case. C. Dell'Elba. 2,278,866; Apr. 7.
Vat dye preparations. C. E. Carr. 2,278,973; Apr. 7.
Vehicle body, Military. B. Q. Jones. 2,278,450; Apr. 7.
Vehicle elevating means. P. F. Parrott. 2,279,127; Apr. 7.
Vending machine. L. Peters. 2,279,093; Apr. 7.
Ventilator, Air turbine. H. Silver. 2,279,016; Apr. 7.
Ventilator, Attic. MacD. Dexter. 2,278,581; Apr. 7.
Vibrating-contact motor. J. D. Miner, Jr., and W. Schaelchlin. 2,279,240; Apr. 7.
Vibratory screen. A. T. Cecil. 2,279,225; Apr. 7.
View finder for photographic apparatus. W. Zapp. 2,278,505; Apr. 7.
Visual direction-finding system. I. Podliasky and A. Guerbilsky. 2,279,246; Apr. 7.
Voltage control system, Variable. G. E. King, W. R. Harding, and W. F. Eames. 2,278,519; Apr. 7.
Voltage indicator. F. H. Gulliksen. 2,278,516; Apr. 7.
Voltage regulator. A. S. Norcross. 2,278,621; Apr. 7.
Washer: *See*—
Air washer.
Washing apparatus. F. Breckenridge. 2,278,911; Apr. 7.
Water closet. N. Larson. 2,278,887; Apr. 7.
Water pipe joint. R. H. Hyde. 2,278,447; Apr. 7.
Water treating apparatus. G. S. Ralston. 2,278,488; Apr. 7.
Waterproof film and hollow bodies, Producing. K. Bratring. 2,278,609; Apr. 7.
Watthour meter. I. F. Kinnard. 2,278,995; Apr. 7.
Wattmeter, Radio frequency. G. H. Brown and J. Epstein. 2,278,686; Apr. 7.
Wattmeter, Radio frequency. G. H. Brown. 2,278,687; Apr. 7.
Wave power actuated pump. A. E. Zoppa. 2,278,818; Apr. 7.
Weapon having multiple load magazine. A. Gerstenberger. 2,278,438; Apr. 7.
Weather-strip and drain trough for convertible bodies. N. C. Clark. 2,278,646; Apr. 7.
Welding. H. Shrubsall. 2,278,569; Apr. 7.
Welding apparatus, Dual flash. A. A. Jens. 2,278,615; Apr. 7.
Welding, Electrical. A. Rákos. 2,278,487; Apr. 7.
Welding head protective device. P. Anderson. 2,278,969; Apr. 7.
Welding system, Condenser. H. Klemperer. 2,278,431; Apr. 7.
Welding system, Rapid condenser. J. W. Dawson. 2,278,430; Apr. 7.
Well flowing apparatus. C. S. Crickmer. 2,278,532; Apr. 7.
Wheel: *See*—
Super resilient wheel.
Wheel truing apparatus, Grinding. J. Olson. 2,279,092; Apr. 7.
White lightweight aggregate. J. Walker and W. Ungerleider. 2,278,957; Apr. 7.
Window construction. E. K. Geyser. 2,278,873; Apr. 7.
Window construction. E. Peremi and L. Foth. 2,278,666; Apr. 7.
Windowpane, Double glass. W. B. Firner. 2,278,694; Apr. 7.
Window unit side wing construction. B. S. Williams. 2,279,271; Apr. 7.
Windshield wiper motor. D. Cook. 2,278,718; Apr. 7.
Wiper, Oil gauge rod. M. A. DeWitt. 2,279,111; Apr. 7.
Wire crimping and twisting tool. J. R. Siebrandt 2,279,068; Apr. 7.
Wire drawing apparatus. W. Morgan and J. N. Whalen. 2,279,174; Apr. 7.
Wrench. A. Boynton. 2,278,419; Apr. 7.
Yarn sizing process. E. W. Spanagel. 2,278,902; Apr. 7.
Yarn structure and method and apparatus for producing same. A. S. Hunter. 2,278,879; Apr. 7.

CLASSIFICATION OF PATENTS

ISSUED APRIL 7, 1942

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

2— 67: 2,279,222
79: 2,279,125
115: 2,279,188
4— 148: 2,279,150
5— 38: 2,278,458
47: 2,279,286
264: 2,278,903
8— 61: 2,278,540
116: 2,278,417
2,278,418
9— 6: 2,279,163
2,279,234
10— 86: 2,278,962
89: 2,278,768
142: 2,279,085
12— 1: 2,278,435
12: 2,278,428
13— 13: 2,278,480
15— 16: 2,279,213
36: 2,278,794
41: 2,278,736
77: 2,278,944
131.1: 2,279,100
160: 2,279,209
196: 2,278,928
210: 2,279,111
17— 7: 2,279,139
25: 2,279,071
18— 8: 2,278,875
17: 2,279,112
26: 2,278,858
30: 2,279,208
2,278,772
41: 2,278,764
53: 2,278,441
54: 2,278,888
19— 106: 2,278,611
143: 2,278,424
20— 2: 2,278,956
4: 2,278,732
33: 2,279,050
56.5: 2,278,694
22— 2: 2,278,751
57: 2,278,815
65: 2,278,555
116: 2,279,044
23— 23: 2,278,644
184: 2,279,088
207: 2,278,605
230: 2,278,929
232: 2,279,231
288: 2,278,892
24— 73: 2,278,691
105: 2,279,259
123: 2,279,132
125: 2,278,717
129: 2,278,842
157: 2,278,523
230.5: 2,278,912
25— 11: 2,278,513
118: 2,279,104
121: 2,279,178
2,278,884
26— 1: 2,278,985
28— 1: 2,278,879
2,278,895
2,278,896
29— 1: 2,278,979
84: 2,278,689
103: 2,278,737
2,278,738
148: 2,278,708
155.5: 2,278,744
30— 9: 2,278,731
43: 2,279,102
114: 2,278,774
32— 2: 2,279,067
33— 21: 2,279,073
33— 75: 2,278,440
86: 2,278,735
181: 2,278,710
2,278,945
34— 48: 2,278,767
35— 8.5: 2,278,626
34: 2,279,109
37— 126: 2,278,511
2,278,829
132: 2,278,508
159: 2,278,806
38— 77: 2,279,179
140: 2,278,517
40— 124: 2,278,695
126: 2,279,113
41— 10: 2,278,898
42— 17: 2,278,589
43— 3: 2,278,594
42: 2,278,876
112: 2,278,538
44— 6: 2,278,413
7: 2,278,847
46— 25: 2,278,894
47— 41: 2,278,773
48— 4: 2,278,521
53.3: 2,278,955
49— 80: 2,278,572
81: 2,279,145
2,279,168
50— 10: 2,278,952
23: 2,278,728
51— 59: 2,278,657
134: 2,278,784
194: 2,278,564
209: 2,279,045
2,279,278
214: 2,278,553
216: 2,278,584
288: 2,278,576
52— 2: 2,278,530
53— 3: 2,278,754
56— 25: 2,278,922
98: 2,279,183
313: 2,278,814
57— 18: 2,279,114
19: 2,279,115
59— 31: 2,278,874
60— 52: 2,278,656
2,279,057
53: 2,279,008
62— 1: 2,279,097
5: 2,278,998
2,279,017
2,279,080
17: 2,278,763
19: 2,278,827
91.5: 2,278,782
108.5: 2,278,408
114: 2,278,617
115: 2,278,889
116: 2,279,272
119.5: 2,278,661
125: 2,279,082
126: 2,279,049
2,279,059
140: Re.22,058
2,278,989
175.5: 2,278,750
64— 6: 2,278,997
65— 13: 2,278,586
66— 82: 2,278,522
134: 2,278,869
172: 2,278,904
2,279,180
2,279,181
202: 2,278,926
67— 21: 2,279,137
22.5: 2,279,175
67— 50: 2,278,734
68— 12: 2,278,769
23: 2,278,911
70— 232: 2,279,006
71— 2: 2,278,443
29: 2,279,200
72— 118: 2,278,822
120: 2,278,758
136: 2,278,803
73— 4: 2,279,105
51: 2,278,510
2,278,667
2,278,804
111: 2,278,776
179: 2,278,805
241: 2,278,830
268: 2,278,682
293: 2,278,825
295: 2,279,043
340: 2,278,908
74— 5: 2,278,913
10: 2,278,648
16: 2,278,606
40: 2,278,861
57: 2,278,775
156: 2,279,004
230.17: 2,278,739
236: 2,279,134
393: 2,278,983
460: 2,279,216
465: 2,278,880
512: 2,278,887
523: 2,278,645
75— 0.5: 2,279,013
3: 2,279,033
22: 2,278,592
31: Re.22,063
115: 2,278,709
136: 2,279,003
155: 2,279,283
168: 2,278,725
2,278,726
178: 2,279,282
2,279,284
77— 2: 2,278,759
55: 2,278,886
58: 2,278,631
2,278,845
2,278,988
2,279,221
2,279,250
73.5: 2,279,089
78— 19: 2,278,741
49: 2,279,226
80— 14: 2,279,083
61: 2,278,411
81— 15.8: 2,279,108
66: 2,278,439
98: 2,278,419
83— 6: 2,278,459
11: 2,279,219
27: 2,278,701
63: 2,279,116
84— 404: 2,279,143
2,279,144
85— 32: 2,278,790
36: 2,279,169
88— 1.5: 2,278,505
16: 2,279,241
16.4: 2,279,281
16.8: 2,278,781
18.7: 2,279,022
24: 2,279,084
28: 2,279,119
80: 2,279,029
89— 1.5: 2,278,482
11: 2,279,087
36: 2,279,110
90— 1.6: 2,278,792
17: 2,278,897
39: 2,278,757
91— 12: 2,278,948
12.5: 2,279,166
14: 2,278,602
48: 2,278,563
67.8: 2,278,982
68: 2,278,902
2,279,253
68.3: 2,278,722
70: 2,278,742
70.1: 2,279,208
70.2: 2,278,600
92— 32: 2,278,729
93— 20: 2,279,279
36.1: 2,279,289
44.1: 2,278,787
94— 8: 2,278,917
11: 2,278,554
95— 2: 2,278,984
5: 2,278,423
7: 2,278,461
2,278,947
8: 2,278,457
98— 10: 2,278,766
33: 2,278,843
43: 2,278,581
72: 2,279,016
94: 2,279,271
99— 1: 2,278,466
4: 2,279,106
23: 2,278,471
2,278,483
65: 2,278,473
76: 2,278,474
83: 2,278,465
98: 2,278,468
2,278,484
2,279,280
103: 2,278,571
104: 2,278,463
2,278,469
2,278,470
2,278,472
2,278,942
107: 2,278,476
117: 2,279,202
126: 2,278,467
2,278,941
136: 2,279,205
137: 2,279,203
186: 2,278,475
101— 30: 2,278,542
2,278,618
2,279,131
40: 2,278,652
115: 2,278,570
129: 2,278,771
407: 2,279,288
415.1: 2,279,204
103— 6: 2,278,823
42: 2,279,176
66: 2,278,818
113: 2,278,595
126: 2,278,795
2,279,136
137: 2,278,740
148: 2,278,821
173: 2,278,696
233: 2,278,532
235: 2,278,991
105— 364: 2,278,883
106— 40: 2,278,486
41: 2,278,957
47: 2,278,501
48: 2,278,867
49: 2,278,868
106— 58: 2,278,454
59: 2,279,260
62: 2,278,442
64: 2,278,455
95: 2,279,262
148: 2,278,970
273: 2,278,671
275: 2,278,954
277: 2,278,684
292: 2,278,872
107— 8: 2,278,574
2,278,923
108— 1: 2,278,797
111— 14: 2,278,864
112— 52: 2,278,675
173: 2,279,099
113— 50: 2,278,643
114— 9: 2,278,938
79: 2,279,091
116— 31: 2,278,653
129: 2,278,520
130: 2,279,189
148: 2,279,147
119— 48: 2,279,147
103: 2,279,012
120— 42: 2,278,907
121— 9: Re.22,059
101: 2,278,718
150: 2,279,069
122— 225: 2,278,699
510: 2,279,192
123— 3: 2,278,798
55: 2,278,490
90: 2,278,963
119: 2,278,871
139: 2,279,010
140: 2,278,493
2,279,048
148: 2,278,481
2,278,679
169: 2,278,448
174: 2,279,037
179: 2,279,126
185: 2,278,547
124— 11: 2,278,799
15: 2,278,438
25: 2,278,535
32: 2,278,588
125— 11: 2,279,092
40: 2,278,707
126— 110: 2,278,683
350: 2,278,619
129— 1: 2,278,565
32: 2,278,596
131— 7: 2,278,642
235: 2,279,026
132— 13: 2,278,811
33: 2,278,456
2,278,541
2,278,857
41: 2,278,693
136— 111: Re.22,065
137— 53: 2,278,437
68: 2,278,755
69.5: 2,278,664
78: 2,278,906
111: 2,278,420
139: 2,279,243
165: 2,278,723
138— 30: 2,278,685
90: 2,279,257
99: 2,278,714
139— 51: 2,278,862
77: 2,279,098
207: 2,278,597
303: 2,278,546
384: 2,279,206
140— 73: 2,278,613
140— 73: 2,279,081
88: 2,279,133
121: 2,279,068
144— 130: Re.22,061
146— 98: 2,279,072
148— 6: 2,279,252
8: 2,279,267
12: 2,278,494
2,278,495
31: 2,279,079
32: 2,278,812
153— 54: 2,279,197
56: 2,279,038
68: 2,278,477
2,278,791
79: 2,278,932
154— 2: 2,278,777
2,278,802
9: 2,278,533
18: 2,278,551
42: 2,278,756
43: 2,278,673
44: 2,278,733
46: 2,278,515
155— 22: 2,278,901
112: 2,278,749
127: 2,278,414
140: 2,278,568
162: 2,278,890
158— 46.5 2,278,972
159— 45: 2,279,061
161— 15: 2,279,121
26: 2,278,937
164— 44: 2,279,078
56: 2,278,713
2,278,786
60: 2,279,046
61: 2,278,662
84.5 2,279,135
90: 2,279,211
2,279,212
166— 12: 2,279,039
24: 2,278,909
167— 56: 2,278,464
170— 173: 2,278,900
171— 34: 2,278,995
95: 2,278,686
2,278,687
2,279,124
97: 2,278,496
2,279,149
119: 2,278,621
2,278,632
209: 2,278,489
252: 2,278,654
2,279,014
2,279,148
314: 2,278,770
324: 2,278,604
327: 2,278,966
172— 36: 2,278,624
2,279,240
126: 2,278,577
179: 2,278,608
237: 2,279,228
239: 2,278,519
245: 2,278,668
2,279,053
246: 2,279,229
276: 2,278,622
279: 2,278,573
2,278,575
2,279,210
2,279,214
2,279,223
281: 2,278,669
284: 2,278,507
173— 259: 2,278,986
332: 2,279,265

173— 361: 2,279,173
174— 11: 2,279,230
152: 2,278,974
158: 2,278,852
163: 2,279,170
175— 30: 2,279,249
182: 2,278,506
264: 2,279,094
294: 2,279,244
341: 2,278,967
356: 2,279,027
2,279,028
2,279,239
366: 2,279,101
2,279,187
176— 26: 2,278,816
2,278,837
122: 2,278,844
177— 7: 2,278,561
2,278,587
311: 2,278,516
2,278,641
2,278,840
2,278,920
2,278,933
2,278,939
2,279,157
327: 2,279,077
337: 2,278,993
351: 2,279,140
353: 2,279,009
2,279,123
2,279,232
178— 5.2: 2,278,940
6.6: 2,278,692
2,279,242
11: 2,278,919
27: 2,278,978
33: 2,278,981
44: 2,278,620
50: 2,278,485
53.1: 2,278,980
69: 2,278,444
69.5: 2,278,788
112: 2,279,161
179— 4: 2,278,460
2,278,703
6: 2,278,828
6.3: 2,278,536
6.5: 2,278,436
17: 2,278,548
18: 2,278,593
2,278,752
27: 2,278,585
42: 2,278,410
2,278,702
81: 2,278,504
82: 2,279,184
100.2: 2,279,018
115.5: 2,278,598
171: 2,278,801
2,279,128
171.5: 2,278,429
2,278,658
2,278,690
2,279,030
2,279,056
181— 0.5: 2,279,191
183— 4: 2,278,854
21: 2,278,432
114.6: 2,278,999

184— 1.5: 2,279,001
7: 2,278,432
188— 3: 2,279,276
72: 2,279,274
79.5: 2,279,251
94: 2,279,160
209: 2,278,785
189— 34: 2,279,003
46: 2,278,706
2,279,005
64: 2,278,666
76: 2,279,171
78: 2,278,873
88: 2,278,627
190— 41: 2,278,935
191— 30: 2,278,761
192— 3.2: 2,279,019
40: 2,278,824
76: 2,278,556
93: 2,278,960
105: 2,278,623
109: 2,278,578
193— 43: 2,278,544
194— 97: 2,278,676
101: 2,278,930
196— 10: 2,278,445
2,278,671
29: 2,278,665
30: 2,278,496
33: 2,278,753
36: 2,279,195
43: 2,279,277
50: 2,279,196
52: 2,278,407
2,278,590
197— 66: 2,278,724
2,279,141
2,279,142
84: 2,278,743
127: 2,278,820
198— 56: 2,278,730
168: 2,279,070
176: 2,278,853
189: 2,279,207
201: 2,278,859
2,278,860
209: 2,278,434
213: 2,279,201
219: 2,278,552
200— 1: 2,279,220
17: 2,279,011
33: 2,278,903
34: 2,278,918
37: 2,279,107
52: 2,278,579
59: 2,278,503
67: 2,279,015
102: 2,278,971
106: 2,278,727
115: 2,279,051
116: 2,278,703
122: 2,278,704
2,278,990
138: 2,278,629
2,278,660
148: 2,279,024
2,279,040
152: 2,278,846
168: 2,279,063
202— 39: 2,278,765
42: 2,279,194

202— 53: 2,278,543
204— 217: 2,278,512
205— 25: 2,279,174
206— 38: 2,278,870
44: 2,278,914
80: 2,278,524
209— 82: 2,278,800
90: 2,278,599
382: 2,279,225
403: 2,279,042
210— 24: 2,278,488
51.5: 2,278,451
2,279,273
70: 2,279,235
183: 2,278,603
185: 2,278,453
199: 2,278,525
2,278,526
211— 65: 2,278,650
214— 65.5: 2,278,950
100: 2,278,946
141: 2,278,412
215— 12: 2,279,075
22: 2,278,924
2,278,925
38: 2,279,263
40: 2,279,155
44: 2,278,462
217— 3: 2,278,748
62: 2,278,850
219— 4: 2,278,430
2,278,431
2,278,615
8: 2,278,969
10: 2,278,487
2,278,569
20: 2,278,633
35: 2,279,064
38: 2,278,994
2,279,196
44: 2,279,000
220— 25: 2,278,899
44: 2,279,215
46: 2,278,881
2,278,882
60: 2,278,793
82: 2,279,165
84: 2,279,247
221— 73.5: 2,278,949
223— 12: 2,278,865
57: 2,278,959
226— 82: 2,279,266
229— 3.5: 2,278,502
2,278,609
37: 2,279,233
51: 2,279,245
230— 18: 2,278,832
234— 36.5: 2,278,514
235— 61.9: 2,278,409
63: 2,278,863
82: 2,279,054
236— 9: 2,279,025
16: 2,278,927
34: 2,278,421
2,278,422
2,279,285
68: 2,279,172
238—14.13: 2,278,659
240— 2: 2,279,162
2.1: 2,278,951
4: 2,278,855

240— 4: 2,278,856
6.45: 2,278,866
7.1: 2,278,567
7.55: 2,278,614
8.18: 2,278,545
10.1: 2,279,182
41.5: 2,279,103
47: 2,278,916
49: 2,278,877
242— 86: 2,279,156
244— 42: 2,278,562
50: 2,279,074
85: 2,278,557
102: 2,278,910
134: 2,278,640
2,278,716
155: 2,279,152
246— 161: 2,279,117
248— 71: 2,279,090
300: 2,279,190
310: 2,279,035
2,279,036
320: 2,279,237
361: 2,278,885
249— 58: 2,278,655
250— 6: 2,278,779
11: 2,278,660
2,279,021
2,279,031
2,279,062
2,279,151
2,279,246
14: 2,278,535
20: 2,279,095
2,279,177
2,279,185
2,279,275
27: 2,278,697
2,279,058
27.5: 2,278,500
2,278,628
2,278,630
2,278,964
33: 2,278,531
2,278,560
2,278,601
2,279,130
36: 2,279,007
65: 2,279,023
83.3: 2,278,936
153: 2,278,478
251— 86: 2,279,066
121: 2,278,715
145: 2,279,002
167: 2,278,848
2,278,849
252— 8.5: 2,278,841
8.55: 2,278,838
8.75: 2,278,747
33: 2,279,086
47: 2,278,762
48: 2,279,218
53: 2,278,851
114: 2,279,248
242: 2,278,509
2,278,836
254: 2,278,746
253— 39: 2,278,992
77: 2,279,258
254— 4: 2,278,817
94: 2,279,127

254— 186: 2,278,681
255— 25: 2,278,807
35: 2,279,118
50: 2,279,186
71: 2,279,129
72: 2,278,780
256— 13.1: Re.22,060
259— 1: 2,278,839
154: 2,279,287
260— 3: 2,278,943
6: 2,279,096
.37: 2,278,878
42: 2,278,833
63: 2,278,638
66: 2,278,635
83: 2,278,634
84: 2,278,415
2,278,528
2,278,636
2,278,637
87: 2,278,783
97.5: 2,278,674
107: Re.22,057
112: 2,278,670
139: 2,278,719
141: 2,278,492
173: 2,278,491
231: 2,278,612
276: 2,278,977
316: 2,278,973
355: 2,278,987
394: 2,278,961
398: 2,278,425
404: 2,279,138
406: 2,278,426
407: 2,278,427
412.4: 2,278,647
429: 2,278,965
449: 2,279,052
2,279,153
484: 2,278,549
501: 2,278,499
541: 2,278,831
547: 2,278,537
571: 2,278,559
575: 2,278,996
594: 2,279,020
632: 2,278,550
654: 2,278,527
676: 2,278,934
683: 2,279,199
712: 2,278,826
2,279,047
747: 2,279,256
780: 2,278,539
808: 2,278,558
261— 112: 2,278,778
262— 30: 2,278,796
263— 43: 2,278,891
265— 1.4: 2,279,261
5: 2,279,041
10: 2,279,159
16: 2,279,264
19: 2,278,416
27: 2,279,076
44: 2,279,254
2,279,255
45: 2,278,497
48: 2,278,809
266— 3: 2,279,217
4: Re.22,064

266— 23: 2,278,607
267— 16: 2,279,154
63: 2,278,712
270— 57: 2,279,269
2,279,270
271— 2.3: 2,278,685
2.5: 2,278,921
14: 2,278,449
42: 2,278,915
64: 2,278,518
272— 72: 2,278,591
273— 1.5: 2,278,616
37: 2,278,808
60: 2,278,649
274— 9: 2,278,678
2,278,680
17: 2,279,227
277— 21: 2,278,789
279— 2: 2,278,639
5: 2,278,651
19.3: 2,278,931
280— 41: 2,278,582
124: 2,279,120
281— 25: 2,279,193
283— 56: 2,279,164
284— 19: 2,278,580
285— 6.5: 2,278,433
2,279,034
16: 2,278,479
25: 2,278,566
97.3: 2,278,720
115: 2,278,447
129: 2,278,721
169: 2,279,146
286— 7: 2,279,167
287— 53: 2,278,698
54: 2,278,760
99: 2,278,810
290— 36: 2,278,745
291— 5: 2,279,158
292— 221: 2,279,290
347: 2,278,534
294— 19: 2,278,813
25: 2,278,610
295— 11: 2,278,711
296— 24: 2,278,450
44: 2,278,646
63: Re.22,062
297— 16: 2,279,236
298— 9: 2,278,446
299— 34: 2,278,819
61: 2,278,976
63: 2,278,953
88: 2,278,672
300— 8: 2,279,055
303— 35: 2,278,700
308— 35: 2,278,663
84: 2,278,583
142: 2,278,625
180: 2,278,883
309— 4: 2,279,238
14: 2,278,958
90: 2,279,122
311— 12: 2,278,529
312— 37: 2,279,032
48: 2,279,093
314— 61: 2,278,968
2,278,975

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,278,433:	285—6.5	2,278,515:	154— 46	2,278,659:	238—14.13	2,278,823:	103— 6	2,278,974:	174—152	2,279,155:	215— 40
2,278,442:	106— 62	2,278,533:	154— 9	2,278,663:	308— 35	2,278,850:	217— 62	2,278,975:	314— 61	2,279,170:	174—163
2,278,453:	210—185	2,278,537:	260—547	2,278,664:	137—69.5	2,278,861:	74— 40	2,279,018:	179—100.2	2,279,183:	56— 98
2,278,455:	106— 64	2,278,538:	43—112	2,278,696:	103—173	2,278,866:	240—6.45	2,279,023:	250— 65	2,279,215:	220— 44
2,278,458:	5— 38	2,278,547:	123—184	2,278,744:	29—155.5	2,278,869:	66—134	2,279,034:	285—6.5	2,279,217:	266— 3
2,278,463:	99—104	2,278,566:	285— 25	2,278,755:	137— 68	2,278,890:	155—162	2,279,035:	248—310	2,279,218:	252— 48
2,278,467:	99—126	2,278,568:	155—140	2,278,762:	252— 47	2,278,918:	200— 34	2,279,036:	248—310	2,279,233:	220— 37
2,278,472:	99—104	2,278,571:	99—103	2,278,769:	66— 12	2,278,922:	56— 25	2,279,040:	200—148	2,279,237:	248—320
2,278,478:	250—153	2,278,577:	172—128	2,278,792:	90—1.6	2,278,942:	99—104	2,279,047:	260—712	2,279,248:	252—114
2,278,486:	106— 40	2,278,603:	210—183	2,278,793:	220— 60	2,278,949:	221—73.5	2,279,050:	20— 35	2,279,256:	260—747
2,278,501:	106— 47	2,278,635:	260— 66	2,278,810:	287— 99	2,278,957:	106— 41	2,279,063:	189— 34	2,279,260:	106— 59
2,278,502:	229—3.5	2,278,650:	211— 65	2,278,821:	103—148	2,278,968:	314— 61	2,279,145:	49— 81	2,279,287:	259—154

U. S. GOVERNMENT PRINTING OFFICE: 1942

LIST OF TRADE-MARK APPLICANTS

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

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American Fluorescent Lighting Corporation, New York, N. Y. Fluorescent lamps, electrical lighting fixtures, electrical appliances. Serial No. 443,621; Apr. 14. Class 21.

American Home Products Corporation, Jersey City, N. J. Medicinal vitamin preparations. Serial No. 451,333; Apr. 14. Class 6.

American Horseman. (See Brooks, Cleonae W.)

American Oil Company, Baltimore, Md. Anti-freeze, brake fluid, insect spray. Serial No. 450,986; Apr. 14. Class 6.

American Oil Company, Baltimore, Md. Anti-freeze, brake fluid, insect spray. Serial No. 450,988; Apr. 14. Class 6.

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Bates, Hamilton C., doing business as C. J. Bates & Son, Chester, Conn. Manicure kits. Serial No. 448,490; Apr. 14. Class 44.

Bausch & Lomb Optical Company, Rochester, N. Y. Otoscopes. Serial No. 445,035; Apr. 14. Class 44.

Betmar Hats Inc., New York, N. Y. Ladies' and children's hats. Serial No. 451,255; Apr. 14. Class 39.

Bio-Dynamic Farming and Gardening Association, Inc., Phoenixville, Pa. Manure, compost, and plant preparations designed to increase the fertilizing properties of compost and manure. Serial No. 446,351; Apr. 14. Class 10.

Black Prince Company, Inc., The, Nutley, N. J. Rum. Serial Nos. 449,714–15; Apr. 14. Class 49.

Borgfeldt, Geo., Corporation, New York, N. Y. Dolls and toy animals. Serial No. 450,825; Apr. 14. Class 22.

Bovinine Company, The, Jersey City, N. J. Medicinal vitamin preparations. Serial No. 451,335; Apr. 14. Class 6.

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Brater, John K., and Co. Inc., New York, N. Y. Medicinal cigarettes. Serial No. 451,132; Apr. 14. Class 6.

Brooks, Cleonae W., doing business as American Horseman, Lexington, Ky. Department of a periodical. Serial No. 449,720; Apr. 14. Class 38.

California Raisin Co. (See Sarkisian, Ben A.)

Carson Pirie Scott & Company, Chicago, Ill. Cosmetics. Serial No. 434,317; Apr. 14. Class 6.

Carthage Mills Incorporated, Cincinnati, Ohio. Floor covering. Serial No. 450,390; Apr. 14. Class 20.

Catalin Corporation, New York, N. Y. Hardened plastic material. Serial No. 444,325; Apr. 14. Class 50.

Central Chemical Corporation of Maryland, Hagerstown, Md. Feeds for poultry. Serial No. 446,862; Apr. 14. Class 46.

Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Combs; and toilet sets. Serial No. 443,114; Apr. 14. Class 40.

Christy Cosmetics, Inc., New York, N. Y. Lipsticks. Serial No. 451,294; Apr. 14. Class 6.

Cook Electric Company, Chicago, Ill. Apparatus in telephone systems. Serial No. 447,042; Apr. 14. Class 21.

Courtaulds, Limited, London, England. Yarns of cellulose. Serial No. 450,712; Apr. 14. Class 43.

Courtaulds, Limited, London, England. Rayon yarns. Serial No. 450,716; Apr. 14. Class 43.

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Courtaulds, Limited, London, England. Yarns of cellulose. Serial No. 450,722; Apr. 14. Class 43.

Courtaulds, Limited, London, England. Yarns of cellulose. Serial No. 450,724; Apr. 14. Class 43.

Cunningham, Thomas Sherriff, Stewarton, Scotland. Stockings and socks. Serial No. 447,695; Apr. 14. Class 39.

Daisy Manufacturing Company, Plymouth, Mich. Air rifles. Serial No. 451,006; Apr. 14. Class 9.

Decker, Alfred, & Cohn, Inc., Chicago, Ill. Men's clothing. Serial No. 448,501; Apr. 14. Class 39.

Economy Auto Stores, Inc., Atlanta, Ga. Electric generators, spark plugs, radio receiving sets, etc. Serial No. 449,900; Apr. 14. Class 21.

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Frito Company, The, Dallas, Tex. Cracker sandwiches with cheese filling. Serial No. 447,175; Apr. 14. Class 46.

Gemloid Corporation, Elmhurst, Long Island, N. Y. Chemical preparations. Serial No. 439,017; Apr. 14. Class 6.

Gold Seal Importers, Inc., New York, N. Y. Ladies' handbags. Serial No. 451,054; Apr. 14. Class 3.

Gretsch, Fred, Manufacturing Co., The, Brooklyn, N. Y. Phonographs, phonograph records, phonograph record players, etc. Serial No. 450,068; Apr. 14. Class 36.

Hat Corporation of America, Norwalk, Conn. Hats for women. Serial No. 451,081; Apr. 14. Class 39.

Hershey Creamery Company, Harrisburg, Pa. Ice cream and frozen confections. Serial No. 451,175; Apr. 14. Class 46.

Jacob Schmidt Brewing Co., St. Paul, Minn. Beer. Serial No. 449,466; Apr. 14. Class 48.

James Manufacturing Company, Fort Atkinson, Wis. Poultry equipment. Serial No. 449,345; Apr. 14. Class 50.

Kimble Glass Company, Vineland, N. J. Glass rods, tubing, and containers. Serial No. 450,361; Apr. 14. Class 33.

Lewis, Addison, doing business as Photonovel Products, Ltd., Minneapolis, Minn. Books. Serial No. 439,517; Apr. 14. Class 38.

Marshall Field & Company, Chicago, Ill. Creams, skin fresheners, mouth washes, etc. Serial No. 450,476; Apr. 14. Class 6.

Meehanite Research Institute of America, Inc., Pittsburgh, Pa. Periodical publication. Serial No. 450,973; Apr. 14. Class 38.

Merchants Distilling Corporation, Terre Haute, Ind. Whiskey. Serial No. 426,167; Apr. 14. Class 49.

Metal Specialties Manufacturing Co., Chicago, Ill. Staples. Serial No. 447,751; Apr. 14. Class 37.

Mid-Continental Laboratories, Kansas City, Mo. Yeast culture that is mixed with live stock and poultry feeds before use. Serial No. 443,664; Apr. 14. Class 46.

Miller Chemical & Fertilizer Corp., Baltimore, Md. Insecticide spray for vegetation. Serial No. 450,240; Apr. 14. Class 6.

Mills Novelty Company, Chicago, Ill. Motion picture projection apparatus. Serial No. 450,371; Apr. 14. Class 26.

Mor-Pak Preserving Corporation, San Francisco and Stockton, Calif. Canned fruits. Serial No. 449,726; Apr. 14. Class 46.

Mulligan, Walter J., San Francisco, Calif. Vermouth. Serial No. 445,950; Apr. 14. Class 47.

Murray, D. J., Manufacturing Co., Wausau, Wis. Grease traps, cess pools, basin traps, and floor drains. Serial No. 449,381; Apr. 14. Class 13.

Murray, D. J., Manufacturing Co., Wausau, Wis. Unit heaters, blast coils, humidifiers, etc. Serial No. 449,383; Apr. 14. Class 34.

National Screen Service Corporation, New York, N. Y. Electric signs. Serial No. 448,202; Apr. 14. Class 21.

Non-Mercuric Carrot Company, The, Danbury, Conn. Fur resulting from the chemical treatment of fur skins and thereafter cut from the skin. Serial No. 447,312; Apr. 14. Class 1.

Novocol Chemical Mfg. Co. Inc., Brooklyn, N. Y. Anesthetics. Serial No. 451,316; Apr. 14. Class 6.

Oberman & Company, Jefferson City, Mo. Outer shirts and jackets. Serial No. 388,364; Apr. 14. Class 39.

Osmic Chemical Company, Brockton, Mass. Liquid cleaner and spot remover for fabrics and gabardine cleaner. Serial No. 431,739; Apr. 14. Class 4.

Pacific Olive Company, Visalia, Calif. Prepared food products. Serial No. 449,431; Apr. 14. Class 46.

Parfums Charbert, Inc., New York, N. Y. Perfumes, toilet waters, sachets, etc. Serial No. 451,146; Apr. 14. Class 6.

Peacock Laboratories, Inc., Philadelphia, Pa. Liquid cleaner for removing stains resulting from the action of silvering solutions from the hands, etc., of those engaged in making mirrors. Serial No. 449,388; Apr. 14. Class 4.

Peacock Laboratories, Inc., Philadelphia, Pa. Tartaric acid, epsom salts, thiourea, etc. Serial No. 449,390; Apr. 14. Class 6.

Photonovel Products, Ltd. (See Lewis, Addison.)

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Alkaline earth metal silicate. Serial No. 440,210; Apr. 14. Class 6.
Rand Rubber Company, Brooklyn, N. Y. Dress shields. Serial No. 450,344; Apr. 14. Class 40.
Rhodes, James H., & Company, Chicago, Ill. Steel wool pads used on floor cleaning and polishing machines. Serial No. 450,743; Apr. 14. Class 4.
Rodriguez, Rafael Angel, doing business as Electric & Automotive Products Co., New York, N. Y. Electric lamps. Serial No. 449,156; Apr. 14. Class 21.
Rollins Hosiery Mills, Inc., Des Moines, Iowa. Ladies cotton under-garments. Serial No. 449,703; Apr. 14. Class 39.
Ruskin, Mabel Cumbow, Abingdon, Va. Ceramic table and cooking ware, vases, jars, jugs, etc. Serial No. 448,653; Apr. 14. Class 30.
Russell, Bennett, Yakima, Wash. Canned fruits, dried prunes, etc. Serial No. 445,531; Apr. 14. Class 46.
Sage, Peggy, Inc., Stamford, Conn. Liquid nail polishes. Serial No. 450,695; Apr. 14. Class 6.
Sarkisian, Ben A., doing business as California Raisin Co., Fresno, Calif. Raisins. Serial No. 442,979; Apr. 14. Class 46.
Scholastic Corporation, New York, N. Y., Dayton, Ohio, and Pittsburgh, Pa. Periodical. Serial No. 449,357; Apr. 14. Class 38.
Sheboygan Chair Company, Sheboygan, Wis. Children's high chairs. Serial No. 450,605; Apr. 14. Class 32.
Silent Hoist Winch & Crane Co., Brooklyn, N. Y. Portable hoists and cranes. Serial No. 450,699; Apr. 14. Class 23.
Snively Groves, Inc., Winter Haven, Fla. Fresh citrus fruits. Serial No. 451,192; Apr. 14. Class 46.
Solter, William J., doing business as Superior Products Company, Golden, Colo. Stock tonics and conditioners. Serial No. 449,788; Apr. 14. Class 6.
Stanley Home Products, Inc., Westfield, Mass. Insecticides. Serial No. 450,030; Apr. 14. Class 6.
Stein Bros., New York, N. Y. Men's topcoats and overcoats. Serial No. 450,911; Apr. 14. Class 39.
Sunway Vitamin Co., Chicago, Ill. Therapeutic vitamin preparation. Serial No. 450,496; Apr. 14. Class 6.
Superior Products Company. (See Solter, William J.)
Supervision Publishing Company, Inc., New York, N. Y. Periodic publication. Serial No. 450,841; Apr. 14. Class 38.
Tested Papers of America, Inc., Chicago, Ill. Incandescent electric light bulbs. Serial No. 449,813; Apr. 14. Class 21.
Textolite Corporation, The, Newark, N. J. Real leather, leather suede, and rubber sheet material. Serial No. 449,331; Apr. 14. Class 1.
Timber Engineering Company, Washington, D. C. Metal connectors. Serial No. 448,591; Apr. 14. Class 13.
United Precision Products Co., Chicago, Ill. Plug gauges and parts therefor. Serial No. 450,217; Apr. 14. Class 26.
United Press Associations, New York, N. Y. Publication. Serial No. 450,383; Apr. 14. Class 38.
Veeder-Root Incorporated, Hartford, Conn. Registering or counting mechanism. Serial No. 427,217; Apr. 14. Class 26.
Ventura Pacific Co., Montalvo, Calif. Fresh citrus fruits. Serial No. 449,307; Apr. 14. Class 46.
Victory Switch Co., Los Angeles, Calif. Electric switches. Serial No. 450,434; Apr. 14. Class 21.
Warich Drug Co., Inc., Richmond Hill, Long Island, N. Y. Hair tonic and brilliantine, creams, lotions, glycerin for body care, etc. Serial No. 450,669; Apr. 14. Class 6.
Webb Packing Co., Inc., Lindsay and Los Angeles, Calif. Fresh citrus fruit. Serial No. 449,631; Apr. 14. Class 46.
Whitehouse Manufacturing Company, Chicago, Ill. Cotton work uniforms, aprons, linen, etc. Serial No. 444,028; Apr. 14. Class 39.
Williams, R. C., & Company, Inc., New York, N. Y. Fountain syrups. Serial No. 443,902; Apr. 14. Class 45.
Williams, R. C., & Company, Inc., New York, N. Y. Liqueur. Serial No. 450,608; Apr. 14. Class 49.
Woodin, Virginia, Arlington, Va. Dolls. Serial No. 448,595; Apr. 14. Class 22.
Yorba Linda Citrus Association, The, Yorba Linda, Calif. Fresh citrus fruits. Serial Nos. 446,344–5; Apr. 14. Class 46.
York Oil Burner Co., Inc., York, Pa. Fuel burning air conditioning units. Serial No. 451,278; Apr. 14. Class 34.
Younghusband, James L., Chicago, Ill. Preparations for the hands and finger nails. Serial No. 450,670; Apr. 14. Class 6.

LIST OF REGISTRANTS OF TRADE-MARKS

Adler Manufacturers, Inc. St. Louis, Mo. Ladies' misses', and juniors' jackets, coats, blouses, etc. 394,647; Apr. 14. Class 39.
Aluminium Press- & Walzwerk Münchenstein A. G. (See Société Anonyme des Usines Giulini.)
American Oil Burner Company, New York, N. Y. to The Silent Glow Oil Burner Corporation, Hartford, Conn., successor. Oil-heaters. 148,979; renewed Dec. 6, 1941.
American Spectacle Co., Inc., New York, N. Y. Spectacles and goggles and lenses therefor. 394,631; Apr. 14. Class 26.
Asher & Boretz, Inc., New York, N. Y. Imitation leather. 394,565; Apr. 14; Serial No. 447,652; published Feb. 3, 1942. Class 50.
Associated Soy-Bean Canners of America, The, Hortonville, Wis. Canned soy beans. 394,644; Apr. 14. Class 46.
Automotive Economy Corporation, Wilmington, Del., and New York, N. Y. Energizing preparations or chemicals to be added to fuels. 394,567; Apr. 14; Serial No. 447,860; published Feb. 3, 1942. Class 6.
Bates Manufacturing Company, The, Orange, to The Bates Manufacturing Company, West Orange, N. J. Numbering machines. 158,174; renewed Aug. 29, 1942.
Bayuk Cigars Incorporated, Philadelphia, Pa. Cigars. 394,568; Apr. 14; Serial No. 447,861; published Feb. 3, 1942. Class 17.
Bear Drug Company, Shawnee, Okla. Prescriptions and pharmaceuticals—namely, glycerine, castor oil, witch hazel, etc. 394,528; Apr. 14; Serial No. 424,862; published Feb. 3, 1942. Class 6.
Blaustein, Wally, New York N. Y. Perfume, toilet water, hair lotion, brilliantine, hand lotion, face lotion, face powder, etc. 394,583; Apr. 14; Serial No. 448,491; published Feb. 3, 1942. Class 6.
Borst, Julius D., doing business as The Kutait Co., San Francisco, Calif. Cutting device for papers, fabrics, and like materials. 394,638; Apr. 14. Class 23.
Bourjois, Inc., New York, N. Y. Jewelry clips, earrings, and jeweled hair ornaments. 394,611; Apr. 14; Serial No. 448,998; published Feb. 3, 1942. Class 28.
Bourjois, Inc., New York, N. Y. Handkerchiefs and evening headdresses. 394,612; Apr. 14; Serial No. 448,999; published Feb. 3, 1942. Class 39.
Bowser, S. F., & Company, Incorporated, Fort Wayne, Ind. Check controlled, flow predetermining stop mechanism. 394,541; Apr. 14; Serial No. 439,745; published Feb. 3, 1942. Class 26.
Brooke, Benjamin, & Company, Philadelphia, Pa., assignor to Lever Brothers Company, Cambridge, Mass. Soap. 21,676; re-renewed Aug. 23, 1942.
Brown & Bigelow, to Brown & Bigelow, St. Paul, Minn., successor. Magazine pencils. 144,356; renewed July 5, 1941.
Brown, Joseph L., Columbia, S. C. Sandwiches. 394,581; Apr. 14; Serial No. 448,468; published Feb. 3, 1942. Class 46.
Bunney Products Company to Bunney Products Company, Incorporated, Port Huron, Mich, successor. Cleansing composition. 153,131; renewed Mar. 14, 1942.
Burndy Engineering Company, Inc., New York, N. Y. Electrical connectors. 394,539–40; Apr. 14; Serial Nos. 439,144–5; published Feb. 3, 1942. Class 21.
California Olive Packers, Incorporated, Corning, Calif. Canned olives. 394,642; Apr. 14. Class 46.
Carmo Shoe Manufacturing Company, Carthage, Mo. Ladies' and misses' shoes. 394,534; Apr. 14; Serial No. 437,083; published Feb. 3, 1942. Class 39.
Carpenter, Herbert L., New York, assignor to Carpenter Container Corporation, Brooklyn, N. Y. Shipping drums and containers. 150,762; renewed Jan. 10, 1942.
Casco Products Corporation, doing business as Fortune Appliance Company, Bridgeport, Conn. Electrically heated pads for therapeutic uses. 394,547; Apr. 14; Serial No. 445,284; published Feb. 3, 1942. Class 44.
Castleton China Incorporated, New York, N. Y. Ceramic table-ware. 394,651; Apr. 14. Class 30.
Celanese Corporation of America. (See Celluloid Corporation, assignor.)
Celluloid Corporation, Newark, N. J., assignor to Celanese Corporation of America, New York, N. Y. Plastic sheets suitable for transmitting and/or diffusing light. 394,594; Apr. 14; Serial No. 448,817; published Feb. 3, 1942. Class 50.
Century Lighting, Inc., New York, N. Y. Electric lighting projectors and fixtures. 394,584; Apr. 14; Serial No. 448,551; published Feb. 3, 1942. Class 21.
Charles of the Ritz, Inc., New York, N. Y. Perfumes and toilet water. 394,595; Apr. 14; Serial No. 448,818; published Feb. 3, 1942. Class 6.
Chattanooga Medicine Company, The, Chattanooga, Tenn. Iron vitamin tonic. 394,564; Apr. 14; Serial No. 447,556; published Feb. 3, 1942. Class 6.
Children's Products Company. (See Hecht, George J.)
Cole of California, Inc., Los Angeles, Calif. Women's and misses' apparel—namely, bathing suits, swimming suits, dresses, etc. 394,575; Apr. 14; Serial No. 448,187; published Feb. 3, 1942. Class 39.
Colman, J. & J., Limited, Norwich and London, to J. & J. Colman, Limited, Norwich, England. Preparation of mustard forming a relish condiment or sauce. 150,308–9; renewed Jan. 3, 1942.

Colorado Milling & Elevator Co., The, doing business as Springfield Flour Mills, Denver, Colo., and Springfield, Mo. Wheat flour. 394,571; Apr. 14; Serial No. 448,074; published Feb. 3, 1942. Class 46.
Companhia Antarctica Paulista, Sao Paulo, Brazil. Natural mineral waters, non-alcoholic maltless beverages, syrups and extracts for making soft drinks. 394,546; Apr. 14; Serial No. 445,124; published Jan. 13, 1942. Class 45.
Container Company, The, Van Wert, Ohio. Drums, barrels, and shipping containers. 394,652; Apr. 14. Class 2.
Cosmos Dental Products, Inc., New York, N. Y. Synthetic resin denture base materials. 394,605; Apr. 14; Serial No. 448,964; published Feb. 3, 1942. Class 44.
Crystal, David, Inc., New York, N. Y. Perfume. 394,615; Apr. 14; Serial No. 449,093; published Jan. 27, 1942. Class 6.
Cudahy Brothers Co., Cudahy, Wis. Refined edible vegetable oils. 394,616; Apr. 14; Serial No. 449,130; published Feb. 3, 1942. Class 46.
Daniel Knitting Mill, New York, N. Y. Sweaters, dresses, and jackets. 394,645; Apr. 14. Class 39.
Demme, William E., doing business as Showrite Mfg. Company, Portland, Oreg. Display racks. 394,643; Apr. 14. Class 32.
"Dri-Gas" Fire-Extinguisher Co., Lake City, Fla. Portable hand fire extinguisher. 394,648; Apr. 14. Class 23.
E. A. Laboratories, Inc., Brooklyn, N. Y. Electrical warning signals. 158,477; renewed Sept. 5, 1942.
Eberhard Faber Pencil Company, Brooklyn, N. Y. Lead pencils. 394,604; Apr. 14; Serial No. 448,937; published Feb. 3, 1942. Class 37.
Eisner, Sigmund, Co., Red Bank, N. J. Negligee and work shirts. 157,670; renewed Aug. 15, 1942.
Emeralite Company, Inc., New York, N. Y. Therapeutic electric lamps. 394,549; Apr. 14; Serial No. 445,461; published Feb. 3, 1942. Class 44.
Empire Stamping Tool & Mfg. Co., St. Louis, Mo. Wear plates for shoes. 150,802; renewed Jan. 10, 1942.
Exhibit Supply Company, The, Chicago, Ill. Coin-controlled amusement apparatus. 394,620–1; Apr. 14; Serial Nos. 449,674–5; published Feb. 3, 1942. Class 22.
Exhibit Supply Company, The, Chicago, Ill. Coin-controlled amusement apparatus. 394,622–5; Apr. 14; Serial Nos. 449,677–80; published Feb. 3, 1942. Class 22.
Fairbanks, Morse & Co., Chicago, Ill. Electrical machines, particularly induction motors. 394,617; Apr. 14; Serial No. 449,226; published Feb. 3, 1942. Class 21.
Firth-Sterling Steel Company, McKeesport, Pa. High speed steel. 394,557; Apr. 14; Serial No. 446,912; published Feb. 3, 1942. Class 14.
Florida Wholesale Florists, Inc., Orlando, Fla. Natural plumosus. 394,563; Apr. 14; Serial No. 447,540; published Feb. 3, 1942. Class 1.
Fortune Appliance Company. (See Casco Products Corporation.)
Fredriksson, Joe A., San Francisco, Calif. Game board. 394,619; Apr. 14; Serial No. 449,415; published Feb. 3, 1942. Class 22.
General Biochemicals, Inc., Chagrin Falls, Ohio. Emulsion of vitamin concentrate in butter fat and milk for food purposes. 394,533; Apr. 14; Serial No. 436,644; published Dec. 31, 1940. Class 46.
General Printing Ink Corporation. (See Ullman, Sigmund, Co., assignor.)
General Printing Ink Corporation, New York, N. Y. Dampening roller assembly for lithographic printing presses. 394,637; Apr. 14. Class 23.
Getz Power Washer Co., Morton, Ill. Laundry washing machines. 152,786; renewed Mar. 7, 1942.
Gilbert, E. T., Mfg. Co. (See Lee, Charles S.)
Gladding, B. F., & Company, Inc., South Otselic, N. Y. Silk fishing lines. 154,954; renewed May 16, 1942.
Gordon, Joseph M., assignor to Eva Gordon, New York, N. Y. Plastic composition in sheet form. 394,576; Apr. 14; Serial No. 448,254; published Feb. 3, 1942. Class 50.
Grand Specialties Company, Chicago, Ill. Work retaining clamps, particularly C-clamps. 394,590; Apr. 14; Serial No. 448,639; published Feb. 3, 1942. Class 23.
Gude's, Inc., Los Angeles, Calif. Women's coats, suits, dresses, etc. 394,646; Apr. 14. Class 39.
Gusto Products, Incorporated, New Haven, Conn. Nuts, spices, and candy in packets. 394,538; Apr. 14; Serial No. 438,734; published Feb. 3, 1942. Class 46.
Harold Clothing Company, The. (See R. B. Clothing Company, The.)
Haug & Co., Inc., New York, N. Y. Hydrogenated vegetable oil. 154,566; renewed Apr. 18, 1942.
Hecht, George J., doing business as Children's Products Company, New York, N. Y. Children's sweaters, dresses, suits, etc. 394,640; Apr. 14. Class 39.
Henry, Sidney, New York, N. Y. Perfumes, toilet water, cologne, etc. 394,536; Apr. 14; Serial Nos. 438,132; published Jan. 27, 1942. Class 6.
Hincher Manufacturing Company of Indiana, Washington, Ind. Hangers. 157,099; renewed July 25, 1942.
Hoboken White Lead & Color Works, Inc., Hoboken, N. J. Ready-mixed paints, oil paints, combination white lead, etc. 158,456; renewed Sept. 5, 1942.
Hoskin Paper Company, Menominee, Mich. Delicatessen paper for wrapping ground meats, fish, butter, lard, fruits, etc. 394,560; Apr. 14; Serial No. 447,395; published Feb. 3, 1942. Class 37.
Huyck, F. C., & Sons, Albany, to F. C. Huyck & Sons, Rensselaer and Albany, N. Y. Camping or sleeping bags. 157,107–8; renewed July 25, 1942.
Hygrade Products Company, Inc., Long Island City, N. Y. Hydraulic shock absorber compound. 394,531; Apr. 14; Serial No. 433,043; published Feb. 3, 1942. Class 6.
Idaho Falls Warehouse Company, doing business as Idaho Falls Bonded Warehouse Co., Idaho Falls, Idaho. Potatoes. 394,629; Apr. 14. Class 46.
Ideal Jewelry Manufacturing Co. Inc., to Ideal Jewelry Manufacturing Company, Providence, R. I. Bracelets. 152,831; renewed Mar. 7, 1942.
Ingrahm, E., Company, The, Bristol, Conn. Clocks. 394,562; Apr. 14; Serial No. 447,512; published Feb. 3, 1942. Class 27.
Interwoven Stocking Company, New Brunswick, N. J. Hosiery. 394,632; Apr. 14. Class 39.
Kay Rubber Company, New York, N. Y. Finger pads, elastic bands, erasers, finger cots. 394,601; Apr. 14; Serial No. 448,909; published Feb. 3, 1942. Class 37.
Kellogg Company, Battle Creek, Mich. Glass measures. 394,558; Apr. 14; Serial No. 447,040; published Feb. 3, 1942. Class 26.
Kelly-Springfield Tire Company, New York, N. Y., assignor to The Kelly-Springfield Tire Company, Cumberland, Md. Resilient vehicle tires. 155,463; renewed May 30, 1942.
Kohnstamm, H., & Co., assignor to H. Kohnstamm & Co., Inc., to H. Kohnstamm & Co., Inc., New York, N. Y. Soap. 157,699; renewed Aug. 15, 1942.
Kropp Forge Company, Chicago, Ill. Steel dies, processors and manufacturers of thermo plastics and synthetic composition rubber and die casting metal casters. 394,628; Apr. 14. Class 23.
Kutsit Co., The. (See Borst, Julius D.)
Langley & Michaels Co., San Francisco, Calif., assignor, by mesne assignments, to McKesson & Robbins, Incorporated, New York, N. Y. Massage alcohol. 158,245; renewed Aug. 29, 1942.
Lansburgh & Bro., Washington, D. C. Women's shoes. 394,579; Apr. 14; Serial No. 448,415; published Feb. 3, 1942. Class 39.
Lee, Charles S., doing business as E. T. Gilbert Mfg. Co., Rochester, N. Y. Pipe cleaners. 394,588; Apr. 14; Serial No. 448,616; published Feb. 3, 1942. Class 8.
Lever Brothers Company. (See Brooke, Benjamin, & Company, assignor.)
Litt Brothers, New York, N. Y. Women's and misses' dresses. 394,641; Apr. 14. Class 39.
Lund, Florence E., assignor to Retta S. Rinell, doing business as Retta H. Storrs, Chicago, Ill. Corsets and brassières. 156,702; renewed July 11, 1942.
Maggi Co., The, Kemptthal, Zurich, Switzerland, assignor to Maggi Co., Inc., New York, N. Y. Seasonings. 154,622; renewed Apr. 18, 1942.
Maison Jeurelle-Seventeen, Inc., New York, N. Y. Perfumes, face powder, creams, etc. 394,554; Apr. 14; Serial No. 446,524; published Jan. 27, 1942. Class 6.
Manhattan Rubber Mfg. Co., The, assignor to Raybestos-Manhattan, Inc., Passaic, N. J. Rubber belting and rubber hose. 157,144; renewed July 25, 1942.
Marken, Florence L., doing business as The Marken Co., Kansas City, Mo. Bath balm, lotions, skin creams, etc. 394,535; Apr. 14; Serial No. 437,903; published Feb. 18, 1941. Class 6.
Marshall Field & Company, Chicago, Ill. Men's felt hats, sportswear—namely, slacks, leather jackets, sweaters, etc. 394,569; Apr. 14; Serial No. 447,938; published Feb. 3, 1942. Class 39.
May Knitting Co. Inc., New York, N. Y. Knitted underwear for women and girls. 394,634; Apr. 14. Class 39.
McHutchison & Co., New York, N. Y. Raffia. 394,572–3; Apr. 14; Serial Nos. 448,109–10; published Feb. 3, 1942. Class 1.
McKesson & Robbins, Incorporated. (See Langley & Michaels Co., assignor.)
Merrell, Wm. S., Company, The, Cincinnati, Ohio. Acid neutralizing astringent and hematinic. 394,596; Apr. 14; Serial No. 448,832; published Feb. 3, 1942. Class 6.
Michigan Chrome & Chemical Co., Detroit, Mich. Coating lacquers. 394,559; Apr. 14; Serial No. 447,242; published Feb. 3, 1942. Class 16.
Miller, I., & Sons, Inc., Long Island City, N. Y. Ladies' Shoes. 394,597; Apr. 14; Serial No. 448,833; published Feb. 3, 1942. Class 39.
Mizzy, Inc., New York, N. Y. Germicidal, analgesic, hemostatic agent. 394,553; Apr. 14; Serial No. 446,060; published Nov. 18, 1941. Class 6.
Morgan, Sarah F., Jamaica, N. Y. Hose supporters. 394,580; Apr. 14; Serial No. 448,418; published Feb. 3, 1942. Class 39.
Muratti, B., Sons and Company Limited, Manchester, assignor, by mesne assignments, to The United Kingdom Tobacco Company, Limited, London, England. Cigarettes. 156,016; renewed June 13, 1942.
Mykron Company, Chicago, Ill. Vitamin preparations. 394,606; Apr. 14; Serial No. 448,979; published Feb. 3, 1942. Class 6.

National Silver Company, New York, N. Y. Plated and unplated tableware. 394,585–6; Apr. 14; Serial Nos. 448,574–5; published Feb. 3, 1942. Class 23.
National Tool Company, The, Cleveland, Ohio. Milling cutters, reamers, counterbores, etc. 158,039; renewed Aug. 22, 1942.
Neatform Co., Inc., The, New York, N. Y. Brassières, corsets, girdles, etc. 394,626; Apr. 14. Class 39.
Northwestern Expanded Metal Company, assignor to United States Gypsum Company, Chicago, Ill. Expanded metal latch. 154,114; renewed Apr. 4, 1942.
Old Colony Paint & Chemical Co., Los Angeles, Calif. Automotive paint finishes. 394,577; Apr. 14; Serial No. 448,300; published Feb. 3, 1942. Class 16.
Packard Manufacturing Corporation, Indianapolis, Ind. Remote control coin box for electrically actuated phonograph. 394,550; Apr. 14; Serial No. 445,698; published Feb. 3, 1942. Class 21.
Palmer, Richard, assignor to Tyrrell's Hygienic Institute, Inc., New York, N. Y. Hot water bottles. 152,932; renewed Mar. 7, 1942.
Parfums Schiaparelli, Inc., New York, N. Y. Soaps. 394,613; Apr. 14; Serial No. 449,062; published Feb. 3, 1942. Class 4.
Park Drug Co., Inc. (See Zincloros Chemical Company, assignor.)
Park Drug Co. Inc., New York, N. Y. Preparation for the relief of occasional constipation. 394,602; Apr. 14; Serial No. 448,921; published Feb. 3, 1942. Class 6.
Parsons Paper Company, Holyoke, Mass. Ledger and bond papers. 394,574; Apr. 14; Serial No. 448,165; published Feb. 3, 1942. Class 37.
Patterson and Hoffman, to Patterson & Hoffman, Oklahoma City, Okla. Cigars. 158,516; renewed Sept. 5, 1942.
Patterson-Sargent Company, The, Cleveland, Ohio. Display devices. 394,551; Apr. 14; Serial No. 445,779; published Feb. 3, 1942. Class 50.
Patterson's Cannery, Enloe, Tex. Canned, boned, barbecued, and ready chopped chicken. 394,529; Apr. 14; Serial No. 430,559; published July 16, 1940. Class 46.
Peacock Laboratories, San Francisco, Calif. Hair conditioner. 394,607; Apr. 14; Serial No. 448,984; published Feb. 3, 1942. Class 6.
Penney, J. C., Company, New York, N. Y. Overalls, overall jackets, work suits, etc. 394,633; Apr. 14. Class 39.
Philadelphia Electrical and Manufacturing Company, Philadelphia, Pa. Interior and exterior commercial and industrial electrical lighting equipment. 394,555; Apr. 14; Serial No. 446,588; published Feb. 3, 1942. Class 21.
Power Pack' Piston Company, Chicago, Ill., assignor to Wilkening Manufacturing Co., Philadelphia, Pa. Pistons. 394,530; Apr. 14; Serial No. 432,405; published Apr. 29, 1941. Class 23.
Printz-Biederman Company, Cleveland, Ohio. Women's and misses' coats and suits. 394,635; Apr. 14. Class 39.
Quaker Oats Company, The, Chicago, Ill. Prepared breakfast cereal. 394,592; Apr. 14; Serial No. 448,801; published Feb. 3, 1942. Class 46.
Quaker Oats Company, The, Chicago, Ill. Rolled oats. 394,593; Apr. 14; Serial No. 448,802; published Feb. 3, 1942. Class 46.
R. B. Clothing Company, Inc., The, to The Harold Clothing Company, Cincinnati, Ohio, successor. Men's clothing for outer wear. 157,568; renewed Aug. 8, 1942.
Raybestos-Manhattan, Inc. (See Manhattan Rubber Mfg. Co., The, assignor.)
Reynolds Preserving Company, Sturgeon Bay, Wis. Apple juice. 394,630; Apr. 14. Class 46.
Rinell, Retta S. (See Lund, Florence, assignor.)
Rollins Hosiery Mills, Inc., Des Moines, Iowa. Ladies' hosiery, underwear, slips, etc. 394,650; Apr. 14. Class 39.
Routledge Mfg. Co., Monroe, Mich. Markmanship practice game and various apparatus therefor. 394,532; Apr. 14; Serial No. 436,444; published Dec. 10, 1940. Class 22.
Ruskin, Mabel Cumbow, Abingdon, Va. Ceramic table and cooking ware, vases, etc. 394,649; Apr. 14. Class 30.
Schultz, Baujan & Co., Beardstown, Ill. Wheat flour. 394,639; Apr. 14. Class 46.
Scientific Nutrition Corporation, Bloomfield, N. J. Food supplements containing various vitamins and minerals. 394,589; Apr. 14; Serial No. 448,623; published Feb. 3, 1942. Class 6.
Scientific Oil Compounding Co., The, Chicago, Ill. Compound or composition of bodied oiticica oil. 394,552; Apr. 14; Serial No. 445,783; published Feb. 3, 1942. Class 16.
Scott, O. M., & Sons Company, Marysville, Ohio. Field, garden, and grass seeds. 394,598; Apr. 14; Serial No. 448,875; published Feb. 3, 1942. Class 1.
Scott, O. M., & Sons Company, Marysville, Ohio. Lawn, turf, and garden fertilizers, grass, and plant foods and fertilizer. 394,599; Apr. 14; Serial No. 448,876; published Feb. 3, 1942. Class 10.
Sears, Roebuck and Co., Chicago, Ill. Liquid used for cleaning glass. 394,627; Apr. 14. Class 4.
Select Cosmetics Co., Chicago, Ill. Body deodorant. 394,542; Apr. 14; Serial No. 439,977; published Feb. 3, 1942. Class 6.
Showrite Mfg. Company. (See Demme, William E.)
Silent Glow Oil Burner Corporation, The. (See American Oil Burner Company.)
Smedley, John, Lea Mills, near Derby, assignor to John Smedley, Limited, Lea Mills, Lea Road, Cromford, near Matlock, England. Hosiery. 20,906; re-renewed Mar. 29, 1942.
Smith, J. Norwood, Inc., New York, N. Y. Shortening. 394,636; Apr. 14. Class 46.
Société Anonyme des Usines Giulini, Basel, to Aluminium Press- & Walzwerk Münchenstein A. G., Munchenstein, near Basel, Switzerland, successor. Fluxes for soldering and welding. 152,274; renewed Feb. 21, 1942.
Society of Chemical Industry in Basle, Basel, Switzerland. Local anesthetic. 156,426; renewed June 20, 1942.
Society of Chemical Industry in Basle, Basel, Switzerland. Oxytocic. 156,427; renewed June 20, 1942.
Southall Bros. & Barclay, Birmingham, to Southall Bros. & Barclay (1935) Limited, West Smethwick, Birmingham, England, successor. Cod liver oil and preparations of same. 21,106; re-renewed May 10, 1942.
Southeastern Clay Company, Aiken, S. C. Refined kaolin for cleaning garments, etc. 394,582; Apr. 14; Serial No. 448,484; published Feb. 3, 1942. Class 4.
Southern States Marketing Cooperative, Incorporated, Richmond, Va. Eggs. 394,600; Apr. 14; Serial No. 448,878; published Feb. 3, 1942. Class 46.
Springfield Flour Mills. (See Colorado Milling & Elevator Co.)
Stack, Cornelius, New York, N. Y. Men's and women's hats and caps. 394,566; Apr. 14; Serial No. 447,769; published Feb. 3, 1942. Class 39.
Standard Manifold Company, Chicago, Ill. Packs of carbon paper. 394,561; Apr. 14; Serial No. 447,470; published Feb. 3, 1942. Class 11.
Star Bedding Co., assignor to Star Bedding Company, St. Louis, Mo. Feather pillows. 153,538; renewed Mar. 21, 1942.
Steel, High speed. Firth-Sterling Steel Company. 394,557; Apr. 14; Serial No. 446,912; published Feb. 3, 1942. Class 14.
Stevens, Ernest, Limited, Cradley Heath, England. Culinary and kitchen utensils. 157,211; renewed July 25, 1942.
Storrs, Retta H. (See Lund, Florence.)
Stromberg-Carlson Telephone Mfg. Co., Rochester, N. Y. Assembled radio receiving sets and parts thereof. 394,618; Apr. 14; Serial No. 449,244; published Feb. 3, 1942. Class 21.
Surbrug, John W., Inc., New York, N. Y. Cigars. 153,015; renewed Mar. 7, 1942.
Teca Corporation, New York, N. Y. Bath salts, bath liquids, and chemical supplies. 394,548; Apr. 14; Serial No. 445,309; published Sept. 9, 1941. Class 6.
Thompson's Spa, assignor to Thompson's Spa, Inc., Boston, Mass. Candy confections, pastries, rolls, etc. 157,769; renewed Aug. 15, 1942.
Trinidad Creamery Co., The, Trinidad, Colo., Clovis and Albuquerque, N. Mex., Tucson, Ariz., El Paso, Tex., and Los Angeles, Calif. Creamery butter. 394,556; Apr. 14; Serial No. 446,764; published Feb. 3, 1942. Class 46.
Turco Products, Inc., Los Angeles, Calif. Cleaning compound intended for the cleaning of metal surfaces. 394,587; Apr. 14; Serial No. 448,593; published Feb. 3, 1942. Class 4.
Tyrrell's Hygienic Institute, Inc. (See Palmer, Richard, assignor.)
Ullman, Sigmund, Co., assignor to General Printing Ink Corporation, New York, N. Y. Printing inks. 158,300; renewed Aug. 29, 1942.
United Kingdom Tobacco Company, Limited, The. (See Muratti, B., Sons and Company Limited, assignor.)
United States Gypsum Company. (See Northwestern Expanded Metal Company, assignor.)
United States Rubber Company, New York, N. Y. Insecticidal spray for the killing of insects. 394,543; Apr. 14; Serial No. 443,027; published July 1, 1941. Class 6.
Vanbert, Ltd., Los Angeles, Calif. Lotion, tooth powder, hair dress, talcum powder, and cologne. 394,591; Apr. 14; Serial No. 448,773; published Feb. 3, 1942. Class 6.
Vanity Fair Silk Mills, Reading, Pa. Men's, women's, and children's underwear, sleeping garments—namely, night gowns, pajamas, etc. 394,603; Apr. 14; Serial No. 448,927; published Feb. 3, 1942. Class 39.
Victor, Sally, Inc., New York, N. Y. Cologne, perfume, and face talcum, and dusting powders. 394,608; Apr. 14; Serial No. 448,992; published Feb. 3, 1942. Class 6.
Walnut Grove Products Company, Atlantic, Iowa. Minerals used as a feed supplement for hogs. 394,537; Apr. 14; Serial No. 438,227; published Feb. 3, 1942. Class 46.
Ward Baking Company, New York, N. Y. Bread. 157,794; renewed Aug. 15, 1942.

Warner, William R., & Co., Inc., New York, N. Y. Calcium diphosphate preparation containing vitamins. 394,609–10; Apr. 14; Serial Nos. 448,994–5; published Feb. 3, 1942. Class 6.
Weinreich, Richard E., doing business as Weinreich Brothers Co., New York, N. Y. Jewelry and pearls and pearl necklaces. 394,544; Apr. 14; Serial No. 443,900; published Feb. 3, 1942. Class 28.
West Disinfecting Company, New York, to West Disinfecting Company, Long Island City, N. Y. Liquid disinfectants, antiseptics, and purifiers. 158,142; renewed Aug. 22, 1942.
Westinghouse Air Brake Company, The, Wilmerding, Pa. Angle cocks, hose couplings, valves, etc. 394,545; Apr. 14; Serial No. 444,110; published Feb. 3, 1942. Class 13.
White & Bagley Company, The, Worcester, Mass. Liquid flushing and cleaning compound for flushing and cleaning motors, engines, gears and gearing, etc. 394,578; Apr. 14; Serial No. 448,310; published Feb. 3, 1942. Class 6.
Wilkening Manufacturing Co. (See Power Pack Piston Company.)
Willamette Iron and Steel Works, to Willamette Iron and Steel Corporation, Portland, Oreg., successor. Logging engines. 153,907; renewed Mar. 28, 1942.
Winthrop Chemical Company, Inc., by consolidation to Winthrop Chemical Company, Inc., New York, N. Y. Medicinal preparations. 158,321; renewed Aug. 29, 1942.
Wisconsin Orchards, Inc., Madison and Gays Mills, Wis. Apples. 394,527; Apr. 14; Serial No. 414,020; published Mar. 11, 1941. Class 46.
World Parade, Inc., New York, N. Y. Motion picture films. 394,614; Apr. 14; Serial No. 449,089; published Feb. 3, 1942. Class 26.
Xana Inc., New York, N. Y. Ladies' brassières, corsets, nightgowns, pajamas, panties, slips, etc. 394,570; Apr. 14; Serial No. 448,069; published Feb. 3, 1942. Class 39.
Zincloros Chemical Company, Denver, Colo., assignor to Park Drug Co., Inc., New York, N. Y. Mouth wash. 158,325; renewed Aug. 29, 1942.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Natural plumosus. Florida Wholesale Florists, Inc. 394,563; Apr. 14; Serial No. 447,540; published Feb. 3, 1942.
Raffia. McHutchison & Co. 394,572–3; Apr. 14; Serial Nos. 448,109–10; published Feb. 3, 1942.
Seeds, Field, garden, and grass. O. M. Scott & Sons Company. 394,598; Apr. 14; Serial No. 448,875; published Feb. 3, 1942.

CLASS 2

Drums and containers, Shipping. H. L. Carpenter. 150,762; renewed Jan. 10, 1942.
Drums, barrels and shipping containers. Container Company. 394,652; Apr. 14.

CLASS 4

Cleaning compound for the cleaning of metal surfaces. Turco Products, Inc. 394,587; Apr. 14; Serial No. 448,593; published Feb. 3, 1942.
Cleansing composition. Bunney Products Company. 153,131; renewed Mar. 14, 1942.
Kaolin, Refined. Southeastern Clay Company. 394,582; Apr. 14; Serial No. 448,484; published Feb. 3, 1942.
Liquid used for cleaning glass. Sears, Roebuck and Co. 394,627; Apr. 14.
Soap. Benjamin Brooke & Company. 21,676; re-renewed Aug. 23, 1942.
Soap. H. Kohnstamm & Co. 157,699; renewed Aug. 15, 1942.
Soaps. Parfums Schiaparelli, Inc. 394,613; Apr. 14; Serial No. 449,062; published Feb. 3, 1942.

CLASS 6

Anesthetic, Local. Society of Chemical Industry in Basle. 156,426; renewed June 20, 1942.
Astringent and hematinic. Acid neutralizing. Wm. S. Merrell Company. 394,590; Apr. 14; Serial No. 448,832; published Feb. 3, 1942.
Balm, lotions, skin creams, etc., Bath. F. L. Marken. 394,535; Apr. 14; Serial No. 437,903; published Feb. 18, 1941.
Bath salts, bath liquids, and chemical supplies. Teca Corporation. 394,548; Apr. 14; Serial No. 445,309; published Sept. 9, 1941.
Calcium diphosphate preparation containing vitamins. William R. Warner & Co. 394,609–10; Apr. 14; Serial Nos. 448,994–5; published Feb. 3, 1942.
Cod liver oil and preparations of same. Southall Bros. & Barclay. 21,106; re-renewed May 10, 1942.
Cologne, perfume, and face talcum, and dusting powders. Sally Victor, Inc. 394,608; Apr. 14; Serial No. 448,992; published Feb. 3, 1942.
Deodorant, Body. Select Cosmetics Co. 394,542; Apr. 14; Serial No. 439,977; published Feb. 3, 1942.
Disinfectants, antiseptics, and purifiers, Liquid. West Disinfecting Company. 158,142; renewed Aug. 22, 1942.
Energizing preparations or chemicals to be added to fuels. Automotive Economy Corporation. 394,567; Apr. 14; Serial No. 447,860; published Feb. 3, 1942.
Flushing and cleaning compound, Liquid. White & Bagley Company. 394,578; Apr. 14; Serial No. 448,310; published Feb. 3, 1942.
Fluxes for soldering and welding. Société Anonyme des Usines Giulini. 152,274; renewed Feb. 21, 1942.
Food supplements containing various vitamins and minerals. Scientific Nutrition Corporation. 394,589; Apr. 14; Serial No. 448,623; published Feb. 3, 1942.
Germicidal, analgesic, hemostatic agent. Mizzy, Inc. 394,553; Apr. 14; Serial No. 446,060; published Nov. 18, 1941.
Hair conditioner. Peacock Laboratories. 394,607; Apr. 14; Serial No. 448,984; published Feb. 3, 1942.
Insecticidal spray. United States Rubber Company. 394,543; Apr. 14; Serial No. 443,027; published July 1, 1941.
Lotion, tooth powder, hair dress, talcum powder, and cologne. Vanbert, Ltd. 394,591; Apr. 14; Serial No. 448,773; published Feb. 3, 1942.
Massage alcohol. Langley & Michaels Co. 158,245; renewed Aug. 29, 1942.
Medicinal preparations. Winthrop Chemical Company. 158,321; renewed Aug. 29, 1942.
Mouth wash. Zincloros Chemical Company. 158,325; renewed Aug. 29, 1942.
Oxytocic. Society of Chemical Industry in Basle. 156,427; renewed June 20, 1942.
Perfume. David Crystal Inc. 394,615; Apr. 14; Serial No. 449,093; published Jan. 27, 1942.
Perfume, toilet water, hair lotion, hand lotion, etc. W. Blaustein. 394,583; Apr. 14; Serial No. 448,491; published Feb. 3, 1942.
Perfumes and toilet water. Charles of the Ritz, Inc. 394,595; Apr. 14; Serial No. 448,818; published Feb. 3, 1942.
Perfumes, face powder, creams, etc. Maison Jeurelle-Seventeen, Inc. 394,554; Apr. 14; Serial No. 446,524; published Jan. 27, 1942.
Perfumes, toilet water, cologne, etc. S. Henry. 394,536; Apr. 14; Serial No. 438,132; published Jan. 27, 1942.
Preparation for the relief of occasional constipation. Park Drug Co. Inc. 394,602; Apr. 14; Serial No. 448,921; published Feb. 3, 1942.
Prescriptions and pharmaceuticals. Bear Drug Company. 394,528; Apr. 14; Serial No. 424,862; published Feb. 3, 1942.
Shock absorber compound, Hydraulic. Hygrade Products Company. 394,531; Apr. 14; Serial No. 433,043; published Feb. 3, 1942.
Vitamin preparations. Mykron Company. 394,606; Apr. 14; Serial No. 448,979; published Feb. 3, 1942.
Vitamin tonic, Iron. Chattanooga Medicine Company. 394,564; Apr. 14; Serial No. 447,556; published Feb. 3, 1942.

CLASS 8

Pipe cleaners. C. S. Lee. 394,588; Apr. 14; Serial No. 448,616; published Feb. 3, 1942.

CLASS 10

Fertilizers, grass and plant foods and fertilizers, Lawn, turf and garden. O. M. Scott & Sons Company. 394,599; Apr. 14; Serial No. 448,876; published Feb. 3, 1942.

CLASS 11

Carbon paper, Packs of. Standard Manifold Company. 394,561; Apr. 14; Serial No. 447,470; published Feb. 3, 1942.
Inks, Printing. Sigmund, Ullman Co. 158,300; renewed Aug. 29, 1942.

CLASS 12

Lath, Expanded metal. Northwestern Expanded Metal Company. 154,114; renewed Apr. 4, 1942.

CLASS 13

Angle cocks, hose couplings, valves, etc. Westinghouse Air Brake Company. 394,545; Apr. 14; Serial No. 444,110; published Feb. 3, 1942.
Utensils, Culinary and kitchen. Ernest Stevens, Limited. 157,211; renewed July 25, 1942.
Wear plates for shoes. Empire Stamping Tool & Mfg. Co. 150,802; renewed Jan. 10, 1942.

CLASS 16

Lacquers, Coating. Michigan Chrome & Chemical Co. 394,559; Apr. 14; Serial No. 447,242; published Feb. 3, 1942.

Oiticica oil, Compound or composition of. Scientific Oil Compounding Co. 394,552; Apr. 14; Serial No. 445,783; published Feb. 3, 1942.
Paint finishes, Automotive. Old Colony Paint & Chemical Co. 394,577; Apr. 14; Serial No. 448,300; published Feb. 3, 1942.
Paints, oil paints, combination white lead, etc., Ready-mixed. Hoboken White Lead & Color Works, Inc. 158,456; renewed Sept. 5, 1942.

CLASS 17

Cigarettes. B. Muratti, Sons and Company, Limited. 156,016; renewed June 13, 1942.
Cigars. Bayuk Cigars Incorporated. 394,568; Apr. 14; Serial No. 447,861; published Feb. 3, 1942.
Cigars. Patterson and Hoffman. 158,616; renewed Sept. 5, 1942.
Cigars. John W. Surbrug, Inc. 153,015; renewed Mar. 7, 1942.

CLASS 21

Electric lighting projectors and fixtures. Century Lighting, Inc. 394,584; Apr. 14; Serial No. 448,551; published Feb. 3, 1942.
Electrical connectors. Burndy Engineering Company. 394,539–40; Apr. 14; Serial Nos. 439,144–5; published Feb. 3, 1942.
Electrical lighting equipment, Interior and exterior commercial industrial. Philadelphia Electrical and Manufacturing Company. 394,555; Apr. 14; Serial No. 446,588; published Feb. 3, 1942.
Electrical machines, particularly induction motors. Fairbanks, Morse & Co. 394,617; Apr. 14; Serial No. 449,226; published Feb. 3, 1942.
Radio receiving sets and parts thereof, Assembled. Stromberg-Carlson Telephone Mfg. Co. 394,618; Apr. 14; Serial No. 449,244; published Feb. 3, 1942.
Remote control coin box for electrically actuated phonographs. Packard Manufacturing Corporation. 394,550; Apr. 14; Serial No. 445,698; published Feb. 3, 1942.
Signals, Electrical warning. E. A. Laboratories, Inc. 158,477; renewed Sept. 5, 1942.

CLASS 22

Amusement apparatus. Coin-controlled. Exhibit Supply Company. 394,620–1; Apr. 14; Serial Nos. 449,674–5; Feb. 3, 1942.
Amusement apparatus, Coin-controlled. Exhibit Supply Company. No. 394,622–5; Apr. 14; Serial Nos. 449,677–80; published Feb. 3, 1942.
Fishing lines, Silk. B. F. Gladding & Company Inc. 154,954; renewed May 16, 1942.
Game and various apparatus therefor, Marksmanship practise. Routledge Mfg. Co. 394,532; Apr. 14; Serial No. 436,444; published Dec. 10, 1940.
Game board. J. A. Fredriksson. 394,619; Apr. 14; Serial No. 449,415; published Feb. 3, 1942.

CLASS 23

Clamps, particularly C-clamps, Work retaining. Grand Specialties Company. 394,590; Apr. 14; Serial No. 448,639; published Feb. 3, 1942.
Cutters, reamers, counterbores, etc., Milling. National Tool Company. 158,039; renewed Aug. 22, 1942.
Cutting device for papers, fabrics and like materials. J. D. Borst. 394,638; Apr. 14.
Engines, Logging. Willamette Iron and Steel Works. 153,907; renewed Mar. 28, 1942.
Fire extinguisher, Portable hand. "Dri-Gas" Fire Extinguisher Co. 394,648; Apr. 14.
Pistons. Power Pack Piston Company. 394,530; Apr. 14; Serial No. 432,405; published Apr. 29, 1941.
Roller assembly for lithographic printing presses. Dampening. General Printing Ink Corporation. 394,637; Apr. 14.
Steel dies, processors and manufactures of thermo plastics and synthetic composition rubber and die casting metal casters. Kropp Forge Company. 394,628; Apr. 14.
Tableware, Plated and unplated. National Silver Company. 394,585–6; Apr. 14; Serial Nos. 448,574–5; published Feb. 3, 1942.

CLASS 24

Laundry washing machines. Getz Power Washer Co. 152,786; renewed Mar. 7, 1942.

CLASS 26

Films, Motion picture. World Parade, Inc. 394,614; Apr. 14; Serial No. 449,089; published Feb. 3, 1942.
Measures, Glass. Kellogg Company. 394,558; Apr. 14; Serial No. 447,040; published Feb. 3, 1942.
Numbering machines. Bates Manufacturing Company. 158,174; renewed Aug. 29, 1942.
Spectacles and goggles and lenses therefor. American Spectacle Co. 394,631; Apr. 14.
Stop mechanism, Check controlled, flow predetermining. S. F. Bowser & Company. 394,541; Apr. 14; Serial No. 439,745; published Feb. 3, 1942.

CLASS 27

Clocks. E. Ingraham Company. 394,562; Apr. 14; Serial No. 447,512; published Feb. 3, 1942.

CLASS 28

Bracelets. Ideal Jewelry Manufacturing Co. 152,831; renewed Mar. 7, 1942.
Jewelry and pearls and pearl necklaces. R. E. Weinreich. 394,544; Apr. 14; Serial No. 443,900; published Feb. 3, 1942.
Jewelry clips, earrings, and jeweled hair ornaments. Bourjois, Inc. 394,611; Apr. 14; Serial No. 448,998; published Feb. 3, 1942.

CLASS 30

Ceramic table and cooking ware, vases, etc. M. C. Ruskin. 394,649; Apr. 14.
Ceramic table-ware. Castleton China Incorporated. 394,651; Apr. 14.

CLASS 32

Pillows, Feather. Star Bedding Co. 153,538; renewed Mar. 21, 1942.
Racks, Display. W. E. Demme. 394,643; Apr. 14.

CLASS 34

Heaters, Oil. American Oil Burner Company. 148,979; renewed Dec. 6, 1941.

CLASS 35

Belting and hose, Rubber. Manhattan Rubber Mfg. Co. 157,144; renewed July 25, 1942.
Tires, Resilient vehicle. Kelly-Springfield Tire Company. 153,463; renewed May 30, 1942.

CLASS 37

Finger pads, elastic bands, erasers, finger cots. Kay Rubber Company. 394,601; Apr. 14; Serial No. 448,909; published Feb. 3, 1942.
Paper for wrapping ground meats, fish, butter, etc., Delicatessen. Hoskin Paper Company. 394,560; Apr. 14; Serial No. 447,395; published Feb. 3, 1942.
Papers, Ledger and bond. Parsons Paper Company. 394,574; Apr. 14; Serial No. 448,165; published Feb. 3, 1942.
Pencils, Lead. Eberhard Faber Pencil Company. 394,604; Apr. 14; Serial No. 448,937; published Feb. 3, 1942.
Pencils, Magazine. Brown & Bigelow. 144,356; renewed July 5, 1941.

CLASS 39

Apparel, Women's and misses'. Cole of California, Inc. 394,575; Apr. 14; Serial No. 448,187; published Feb. 3, 1942.
Bags, Camping or sleeping. F. C. Huyck & Sons. 157,107–8; renewed July 25, 1942.
Brassières, corsets, girdles, etc. Neatform Co. 394,626; Apr. 14.
Brassières, corsets, nightgowns, etc. Xana Inc. 394,570; Apr. 14; Serial No. 448,069; published Feb. 3, 1942.
Clothing for outer wear, Men's. R. B. Clothing Company. 157,568; renewed Aug. 8, 1942.
Coats and suits, Women's and misses'. Prints-Biederman Company. 394,635; Apr. 14.
Coats, suits, dresses, etc., Women's. Gude's Inc. 394,646; Apr. 14.
Corsets and brassières. F. E. Lund. 156,702; renewed July 11, 1942.
Dresses, Women's and misses'. Litt Brothers. 394,641; Apr. 14.
Handerchiefs and evening headdresses. Bourjois, Inc. 394,612; Apr. 14; Serial No. 448,999; published Feb. 3, 1942.
Hats and caps. C. Stack. 394,566; Apr. 14; Serial No. 447,769; published Feb. 3, 1942.
Hats, sportswear, Men's felt. Marshall Field & Company. 394,569; Apr. 14; Serial No. 447,938; published Feb. 3, 1942.
Hose supporters. S. F. Morgan. 394,580; Apr. 14; Serial No. 448,418; published Feb. 3, 1942.
Hosiery. Interwoven Stocking Company. 394,632; Apr. 14.
Hosiery. J. Smedley. 20,906; re-renewed Mar. 29, 1942.
Hosiery, underwear, slips, etc., Ladies'. Rollins Hosiery Mills, Inc. 394,650; Apr. 14.
Jackets, coats, blouses, etc, Ladies, misses, and juniors. Adler Manufacturers, Inc. 394,647; Apr. 14.
Knitted underwear for women and girls. May Knitting Co. 394,634; Apr. 14.
Overalls, overall jackets, work suits, etc. J. C. Penney Company. 394,633; Apr. 14.
Shirts, Negligee and work. Sigmund Eisner Co. 157,670; renewed Aug. 15, 1942.
Shoes, Ladies'. I. Miller & Sons, Inc. 394,597; Apr. 14; Serial No. 448,833; published Feb. 3, 1942.
Shoes, Ladies' and misses'. Carmo Shoe Manufacturing Company. 394,534; Apr. 14; Serial No. 437,083; published Feb. 3, 1942.
Shoes, Women's. Lansburgh & Bro. 394,579; Apr. 14; Serial No. 448,415; published Feb. 3, 1942.
Sweaters, dresses, and jackets. Daniel Knitting Mill. 394,645; Apr. 14.
Sweaters, dresses, suits, etc., Children's. G. J. Hecht. 394,640; Apr. 14.
Underwear and sleeping garments. Vanity Fair Silk Mills. 394,603; Apr. 14; Serial No. 448,927; published Feb. 3, 1942.

CLASS 44

Bottles, Hot water. R. Palmer. 152,932; renewed Mar. 7, 1942.

Denture base materials, Synthetic resin. Cosmos Dental Products, Inc. 394,605; Apr. 14; Serial No. 448,964; published Feb. 3, 1942.
Electrically heated pads for therapeutic use. Casco Products Corporation. 394,547; Apr. 14; Serial No. 445,284; published Feb. 3, 1942.
Therapeutic electric lamps. Emeralite Company. 394,549; Apr. 14; Serial No. 445,461; published Feb. 3, 1942.

CLASS 45

Mineral waters, non-alcoholic maltless beverages, syrups and extracts, Natural. Companhia Antarctica Paulista. 394,546; Apr. 14; Serial No. 445,124; published Jan. 13, 1942.

CLASS 46

Apple juice, Pure natural. Reynolds Preserving Company. 394,630; Apr. 14.
Apples. Wisconsin Orchards, Inc. 394,527; Apr. 14; Serial No. 414,020; published Mar. 11, 1941.
Bread. Ward Baking Company. 157,794; renewed Aug. 15, 1942.
Butter, Creamery. Trinidad Creamery Co. 394,556; Apr. 14; Serial No. 446,764; published Feb. 3, 1942.
Candy confections, pastries, rolls, etc. Thompson's Spa. 157,769; renewed Aug. 15, 1942.
Canned, boned, barbecued, and ready chopped chicken. Patterson's Cannery. 394,529; Apr. 14; Serial No. 430,559; published July 16, 1940.
Canned olives. California Olive Packers, Incorporated. 394,642; Apr. 14.
Canned soy beans. Associated Soy-Bean Canners of America. 394,644; Apr. 14.
Cereal, Prepared breakfast. Quaker Oats Company. 394,592; Apr. 14; Serial No. 448,801; published Feb. 3, 1942.
Eggs. Southern States Marketing Cooperative, Incorporated. 394,600; Apr. 14; Serial No. 448,878; published Feb. 3, 1942.
Emulsion of vitamin concentrate in butter fat and milk. General Biochemicals, Inc. 394,533; Apr. 14; Serial No. 436,644; published Dec. 31, 1940.
Flour, Wheat. Colorado Milling & Elevator Co. 394,571; Apr. 14; Serial No. 448,074; published Feb. 3, 1942.
Flour, Wheat. Schultz, Baujan & Co. 394,639; Apr. 14.
Minerals used as a feed supplement for hogs. Walnut Grove Products Company. 394,537; Apr. 14; Serial No. 438,227; published Feb. 3, 1942.
Mustard forming a relish condiment or sauce, Preparation of. J. & J. Colman, Limited. 150,308–9; renewed Jan. 3, 1942.
Nuts, spices, and candy in packets. Gusto Products, Incorporated. 394,538; Apr. 14; Serial No. 438,734; published Feb. 3, 1942.
Oats, Rolled. Quaker Oats Company. 394,593; Apr. 14; Serial No. 448,802; published Feb. 3, 1942.
Potatoes. Idaho Falls Warehouse Company. 394,629; Apr. 14.
Sandwiches. J. L. Brown. 394,581; Apr. 14; Serial No. 448,468; published Feb. 3, 1942.
Seasonings. Maggi Co. 154,622; renewed Apr. 18, 1942.
Shortening. J. Norwood Smith Inc. 394,636; Apr. 14.
Vegetable oil, Hydrogenated. Haug & Co. 154,566; renewed Apr. 18, 1942.
Vegetable oils, Refined edible. Cudahy Brothers Co. 394,616; Apr. 14; Serial No. 449,130; published Feb. 3, 1942.

CLASS 50

Display devices. Patterson-Sargent Company. 394,551; Apr. 14; Serial No. 445,779; published Feb. 3, 1942.
Hangers. Hincher Manufacturing Company of Indiana. 157,099; renewed July 25, 1942.
Imitation leather. Asher & Boretz, Inc. 394,565; Apr. 14; Serial No. 447,652; published Feb. 3, 1942.
Plastic compound in sheet form. J. M. Gordon. 394,576; Apr. 14; Serial No. 448,254; published Feb. 3, 1942.
Plastic sheets for transmitting and/or diffusing light. Celluloid Corporation. 394,594; Apr. 14; Serial No. 448,817; published Feb. 3, 1942.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 14TH DAY OF APRIL, 1942

NOTE.--Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Altenburger, Clarence L. (See Selmi, L. G., and Altenburger, assignors.)
American Cutting Alloys, Inc. (See Schwarzkopf, Paul, assignor.)
Cleveland Crane & Engineering Company, The. (See Medenwald, Arthur L., assignor.)
Dover, Samuel M. Stop and tail lamp. Re. 22,066; Apr. 14.
Finkelstein, William. (See Freeman, Samuel, assignor.)
Freeman, Samuel, assignor to W. Finkelstein, New York, N. Y. Hair curling device and curling hair. Re. 22,067; Apr. 14.
Great Lakes Steel Corporation. (See Selmi, L. G., and Altenburger, assignors.)
Joesting, Frederick D., Chicago, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Fuel burner control system. Re. 22,068; Apr. 14.
Medenwald, Arthur L., Los Angeles, Calif., assignor, by mesne assignments, to The Cleveland Crane & Engineering Company, Wickliffe, Ohio. Suspending and moving a platform or the like. Re. 22,069; Apr. 14.
Minneapolis-Honeywell Regulator Company. (See Joesting, Frederick D., assignor.)
Myer, Percy L., Caldwell, and E. R. Wheeler, Plainfield, N. J., assignors to The Western Union Telegraph Company, New York, N. Y. Telegraph system and apparatus. Re. 22,070; Apr. 14.
Nevin, James V., Aberdeen, Wash. Process of normalizing hot pressed plywood. Re. 22,071; Apr. 14.
Schwarzkopf, Paul, Yonkers, assignor to American Cutting Alloys, Inc., New York, N. Y. Hard metal tool alloys. Re. 22,073; Apr. 14.
Schwarzkopf, Paul, Yonkers, assignor to American Cutting Alloys, Inc., New York, N. Y. Producing a hard metal alloy. Re. 22,074; Apr. 14.
Selmi, Luciano G., Detroit, and C. L. Altenburger, Dearborn, assignors to Great Lakes Steel Corporation, Ecorse, Mich. Alloy steel. Re. 22,072; Apr. 14.
Western Union Telegraph Company. (See Myer, P. L., & Wheeler, assignors.)
Wheeler, Evan R. (See Myer, P. L., & Wheeler, assignors.)

LIST OF PLANT PATENTEES

Armstrong Nurseries, Inc. (See Swim, Herbert C., assignor.)
Magnone, Ernest, Sanger, Calif. Grape. 509; Apr. 14.
Swim, Herbert C., assignor to Armstrong Nurseries, Inc., Ontario, Calif. Rose plant. 508; Apr. 14.

LIST OF DESIGN PATENTEES

Abt, John H., assignor to Deering Milliken & Co., Inc., New York, N. Y. Textile fabric. 132,024; Apr. 14.
Abt, John H., assignor to Deering Milliken & Co., Inc., New York, N. Y. Textile fabric. 132,025; Apr. 14.
Abt, John H., assignor to Deering Milliken & Co., Inc., New York, N. Y. Textile fabric. 132,026; Apr. 14.
Adams, Harry A., New York, N. Y. Combination handbag and cigarette dispenser. 132,023; Apr. 14.
Anderson, George W., assignor to The General Tire & Rubber Company, Akron, Ohio. Tire. 132,008; Apr. 14.
Arnstein, Walter S., Queens, N. Y. Fastening device or similar article. 132,017; Apr. 14.
Ball, Charles F., Franklin, Pa., and L. G. Hilkemeier, assignors to Chain Belt Company, Milwaukee, Wis. Concrete mixer. 132,044; Apr. 14.
Blankenship, Thomas E., assignor to Naegele Advertising Co., Inc., Minneapolis, Minn. Advertising sign. 132,009; Apr. 14.
Borger, Frank G., assignor to C. B. Weber, Inc., Jersey City, N. J. Tobacco pipe. 132,045; Apr. 14.
Borger, Frank G., assignor to C. B. Weber, Inc., Jersey City, N. J. Tobacco pipe. 132,046; Apr. 14.
Brown & Bigelow. (See Trollen, Martin E., assignor.)
Buchholz, Israel, New York, N. Y. Dress. 132,074; Apr. 14.
Buchholz, Israel, New York, N. Y. Dress ensemble. 132,075; Apr. 14.
Buchholz, Israel, New York, N. Y. Dress. 132,076; Apr. 14.
Buchholz, Israel, New York, N. Y. Dress ensemble. 132,082; Apr. 14.
Buchholz, Israel, New York, N. Y. Dress. 132,083; Apr. 14.
Buchholz, Israel, New York, N. Y. Dress ensemble. 132,084; Apr. 14.
Buchholz, Israel, New York, N. Y. Dress. 132,085; Apr. 14.
Buchholz, Israel, New York, N. Y. Dress. 132,086; Apr. 14.
Buchholz, Israel, New York, N. Y. Dress ensemble. 132,087; Apr. 14.
Buchholz, Israel, New York, N. Y. Dress. 132,088; Apr. 14.
Budd Wheel Company. (See Davenport, Talmon A., assignor.)
Burke, James P., Struthers, Ohio, assignor to J. E. Cronan, Flint, Mich. Cup hanger. 132,018; Apr. 14.
Chain Belt Company. (See Ball, C. F., and Hilkemeier, assignors.)
Cherin, Emanuel T. (See Favorman, Benjamin.)
Christen, Marcel, New York, N. Y. Textile fabric. 132,027; Apr. 14.
Clion, William, Brooklyn, N. Y. Dress. 132,062; Apr. 14.
Cohen, David C. (See Trojan, Jose, assignor.)
Cohn & Rosenberger, Inc. (See Katz, Adolph, assignor.)
Cronan, James E. (See Burke, James P., assignor.)
Crystal Manufacturing Co. (See Trojan, Jose, assignor.)
Cummings, Margery, Beverly Hills, Calif. Door or similar article. 132,040; Apr. 14.
Davenport, Talmon A., Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Vehicle wheel. 132,028; Apr. 14.
Deering Milliken & Co. (See Abt, John H., assignor.)
Earle, Genevieve M. (See Earle, Guyon L. C., assignor.)
Earle, Guyon L. C., assignor to G. M. Earle, Forest Hills, N. Y. Combination kitchen unit. 132,010; Apr. 14.
Favorman, Benjamin, and E. T. Cherin, San Francisco, Calif. Shirt or similar article. 132,047; Apr. 14.
Federal Glass Company, The. (See Kogan, Belle, assignor.)
Finch Telecommunications, Inc. (See Teague, Walter D., assignor.)
Finkel, Martin, New York, N. Y. Glass jewelry finding, 132,089; Apr. 14.
Flier, Leo, Springfield, Mass. Jewelry case or the like. 132,048; Apr. 14.
Gardner Displays Company. (See Johnson, Charles R., assignor.)
General Tire & Rubber Company, The. (See Anderson, George W., assignor.)
Gershuny, Abe, New York, N. Y. Dress ensemble. 132,090; Apr. 14.
Gershuny, Abe, New York, N. Y. Dress ensemble. 132,091; Apr. 14.
Gilco Signs, Inc. (See Regester, Ramsay G., assignor.)
Haase, Wilbert W., assignor to Wilbert W. Haase Co., Forest Park, Ill. Concrete burial vault cover. 132,054; Apr. 14.
Haase, Wilbert W., Co. (See Haase, Wilbert W., assignor.)
Haase, Wilbert W., Co. (See Schultz, Sydney L., assignor.)
Hadley, Donald L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbogenerator unit. 132,041; Apr. 14.

Hansen, William, Chicago, Ill. Electric lamp. 132,011; Apr. 14.
Harper, Kennard W. (See Osterberg, H., Harper, and Peck, assignors.)
Helms, Lillian, New York, N. Y. Dress ensemble. 132,063; Apr. 14.
Hilkemeier, Louis G. (See Ball, C. F., and Hilkemeier.)
Hobgood, Margaret, New York, N. Y. Dress. 132,092; Apr. 14.
Hormats, Ruth, Baltimore, Md. Stencil lettering card. 132,019; Apr. 14.
Housholder, Owen. (See Trojan, José, assignor.)
Jackson, Joseph G., Oak Park, assignor to The Edward Katzinger Company, Chicago, Ill. Bake pan. 132,020; Apr. 14.
Johnson, Charles R., Pittsburgh, Pa., assignor to Gardner Displays Company. Flag. 132,029; Apr. 14.
Kalajian, Harry J., assignor to Harley C. Loney Company, Detroit, Mich. Wheel balance weight. 132,030; Apr. 14.
Katz, Adolph, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y. Bracelet. 132,066; Apr. 14.
Katz, Adolph, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y. Brooch or similar article. 132,067; Apr. 14.
Katz, Adolph, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y. Brooch or similar article. 132,068; Apr. 14.
Katz, Adolph, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y. Brooch or similar article. 132,069; Apr. 14.
Katz, Adolph, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y. Jewelry finding. 132,070; Apr. 14.
Katz, Adolph, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y. Brooch or similar article. 132,077; Apr. 14.
Katz, Adolph, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y. Brooch or similar article. 132,078; Apr. 14.
Katz, Adolph, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y. Brooch or similar article. 132,079; Apr. 14.
Katz, Adolph, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y. Brooch or similar article. 132,080; Apr. 14.
Katzinger, Edward, Company, The. (See Jackson, Joseph G., assignor.)
Kessler, Betty, New York, N. Y. Dress ensemble. 132,081; Apr. 14.
Kogan, Belle, New York, N. Y., assignor to The Federal Glass Company, Columbus, Ohio. Glass tumbler or article of similar nature. 132,021; Apr. 14.
Kornberg, Belle, New York, N. Y. Dress. 132,093; Apr. 14.
Kornberg, Belle, New York, N. Y. Dress ensemble. 132,094; Apr. 14.
Leddy, Leo P., Brooklyn, N. Y., assignor to Swift & Fisher, Inc., North Attleboro, Mass. Medal or similar article. 132,031; Apr. 14.
Libbey Glass Company. (See Sawyer, Charles W., assignor.)
Loney, Harley C. Company. (See Kalajian, Harry J., assignor.)
Maidman, William, New York, N. Y. Dress. 132,071; Apr. 14.
Miller, Donald M., Montclair, N. J. Plate or similar article. 132,012; Apr. 14.
Minchenberg, David, New York, N. Y. Dress. 132,064; Apr. 14.
Naegele Advertising Co. (See Blankenship, Thomas E., assignor.)
Niedner, George A., New York, N. Y. Woven textile fabric. 132,032; Apr. 14.
Niedner, George A., New York, N. Y. Woven textile fabric. 132,033; Apr. 14.
Niedner, George A., New York, N. Y. Woven textile fabric. 132,034; Apr. 14.
Niedner, George A., New York, N. Y. Woven textile fabric. 132,049; Apr. 14.
O'Neal, Walter M. (See Wilburn, A., and O'Neal.)
Osterberg, Harold, and K. W. Harper, Buffalo, and W. F. Peck, Snyder, assignors to Spencer Lens Company, Buffalo, N. Y. Projector. 132,022; Apr. 14.
Peck, William F. (See Osterberg, H., Harper, and Peck, assignors.)
Peters, William F., Seattle, Wash. Game board. 132,013; Apr. 14.
Planeta, Anthony. (See Planeta, Paul, assignor.)
Planeta, Paul, Linden, assignor to A. Planeta, Rahway, N. J. Flowerpot holder or similar article. 132,055; Apr. 14.
Planeta, Rudolph C., Roselle, assignor to A. Planeta, Rahway, N. J. Flowerpot holder or similar article. 132,056; Apr. 14.
Popper, Eric R., New York, N. Y. Sweater. 132,050; Apr. 14.
Regester, Ramsay G., assignor to Gillco Signs, Inc., Philadelphia, Pa. Advertising sign or the like. 132,014; Apr. 14.
Reinhold, Arno, Cleveland, Ohio. Oiled silk fabric or similar article. 132,057; Apr. 14.
Roedelheimer, Edgar, New York, N. Y. Jewelry finding. 132,072; Apr. 14.
Roedelheimer, Edgar, New York, N. Y. Jewelry finding. 132,073; Apr. 14.
Sarge, Julia L., New York, N. Y. Pantie. 132,058; Apr. 14.
Sawyer, Charles W., assignor to Libbey Glass Company, Toledo, Ohio. Centerpiece. 132,035; Apr. 14.
Sawyer, Charles W., assignor to Libbey Glass Company, Toledo, Ohio. Goblet or similar article. 132,042; Apr. 14.
Schultz, Sydney L., Oak Park, assignor to Wilbert W. Haase Co., Forest Park, Ill. Concrete burial vault cover. 132,059; Apr. 14.
Schultz, Sydney L., Oak Park, assignor to Wilbert W. Haase Co., Forest Park, Ill. Concrete burial vault cover. 132,060; Apr. 14.
Spencer Lens Company. (See Osterberg, H., Harper, and Peck, assignors.)
Svift & Fisher, Inc. (See Leddy, Leo P., assignor.)
Teague, Walter D., Annandale, N. J., assignor to Finch Telecommunications, Inc., New York, N. Y. Duplex facsimile machine. 132,051; Apr. 14.
Trees, Charles J., Madison, Ind. Bottle. 132,052; Apr. 14.
Trojan, José, assignor to O. Housholder and D. C. Cohen, copartners doing business as Crystal Manufacturing Co., Chicago, Ill. Merchandise display case. 132,015; Apr. 14.
Trojan, José, assignor to O. Housholder and D. C. Cohen, copartners doing business as Crystal Manufacturing Co., Chicago, Ill. Merchandise display case unit. 132,016; Apr. 14.
Trollen, Martin E., assignor to Brown & Bigelow, St. Paul, Minn. Sleet scraper. 132,043; Apr. 14.
Watkins, Clara N. (See Wentz, A. W., and Watkins.)
Weber, C. B., Inc. (See Borger, Frank G., assignor.)
Weinberg, Sol, New York, N. Y. Textile fabric. 132,036; Apr. 14.
Wentz, Alvin W., and C. N. Watkins, St. Louis, Mo. Wheeled chair. 132,061; Apr. 14.
Westinghouse Electric & Manufacturing Company. (See Hadley, Donald L., assignor.)
Wilburn, Archie, and W. M. O'Neal, Grass Valley, Calif. Banner or similar article. 132,037; Apr. 14.
Wolf, Semon, New York, N. Y. Slip or similar article. 132,053; Apr. 14.
Zahn, Samuel, New York, N. Y. Dress. 132,065; Apr. 14.
Zahn, Samuel, New York, N. Y. Dress. 132,095; Apr. 14.
Zimmerman, Allan, New York, N. Y. Textile fabric. 132,038; Apr. 14.
Zimmerman, Allan, New York, N. Y. Textile fabric. 132,039; Apr. 14.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 14TH DAY OF APRIL, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbott Laboratories. (See Ravenscroft, Edward A., assignor.)
Acme Visible Records, Inc. (See Attwood, Charles E., assignor.)
Adamson, Nicholas F., assignor to Twin Disc Clutch Company, Racine, Wis. Clutch. 2,279,700; Apr. 14.
Adel Precision Products Corp. (See Ellinwood, Herman R., assignor.)
Aero Survey Corporation. (See Cooke, Hereward L., assignor.)
Aga-Baltic Radio Aktiebolag. (See Alexandersson, H. V., and Granqvist, assignors.)
Agnew, Edward J., assignor to The Union Switch & Signal Company, Swissvale, Pa. Signaling apparatus. 2,280,015; Apr. 14.
Ahlberg, Jacob E. (See Benedict, W. L., and Ahlberg.)
Aikman, Burton S., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Compressor control means. 2,279,431; Apr. 14.
Aikman, Burton S., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake control means. 2,279,432; Apr. 14.
Air Reduction Company, Incorporated. (See Crowe, J. J., assignor.)
Akron Brass Manufacturing Company. (See Grant, J. W., and Hunt, assignors.)
Akron Standard Mold Company. (See Voth, W. P., and Hudson, assignors.)
Aktiengesellschaft Brown, Boveri & Cie. (See Thommen, Hans, assignor.)
Albrecht, Otto. (See Salimann, R., and Albrecht.)
Albright, Harry L., Akron, Ohio. Lamp. 2,279,770; Apr. 14.
Aldham, Thomas E., Providence, R. I., assignor to Fram Corporation. Filter cartridge mounting. 2,280,033; Apr. 14.
Alexandersson, Harald V., and Carl-Erik Granqvist, assignors to Aga-Baltic Radio Aktiebolag, Stockholm, Sweden. Remote control apparatus. 2,280,019; Apr. 14.
Allen, Scott E., Verona, assignor to C-O-Two Fire Equipment Company, Newark, N. J. Making lightweight cylinders. 2,279,726; Apr. 14.
Allied Chemical & Dye Corporation. (See Engel, Karl H., assignor.)
Allison, Leslie R., Forest Hills, assignor to The Union Switch & Signal Company, Swissvale, Pa. Coded track circuit system of railway signaling. 2,280,020; Apr. 14.
Altman, Fred E., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic objective. 2,279,384; Apr. 14.
American Brake Shoe and Foundry Company. (See Lerner, Earl A., assignor.)
American Cyanamid Company. (See Ayres, G. B., and Niedercorn, assignors.)
American Cyanamid Company. (See Groten, F. J., and Lower, assignors.)
American Cyanamid Company. (See Ham, G. P., and Barnes, assignors.)
American Cyanamid Company. (See Ripper, Kurt, assignor.)
American Electric Fusion Corporation. (See von Henke, Edmund J., assignor.)
American Liquid Gas Corporation. (See Smith, Harold W., assignor.)
American Steel Foundries. (See Cottrell, Robert B., assignor.)
American Viscose Corporation. (See O'Malley, Thomas R., assignor.)
Ammon, Edward R., Reading, Pa. Sorting holder means for hosiery. 2,279,897; Apr. 14.
Amstutz, John C., assignor to Behr-Manning Corporation, Troy, N. Y. Electrostatic coating process. 2,279,361; Apr. 14.
Anderson, Clayton G., Portland, Oreg. Furnace damper with minimum draft control. 2,279,610; Apr. 14.
Anderson, Perle J., Portland, N. Y. Putty plow. 2,279,727; Apr. 14.
Anderson Rubber Company. (See Stanford, James F.)
Anderson, Selden W. (See Stanford, James F., assignor.)
Angert, Richard W., Cincinnati, Ohio. Progressive hobby horse. 2,279,963; Apr. 14.
Apex Electrical Manufacturing Company, The. (See Frantz, Walter A., assignor.)
Apfel, Jacob F., Hamilton, Ohio. Clinker tongs. 2,279,809; Apr. 14.
Arado Flugzeugwerke Gesellschaft mit beschrankter Haftung. (See Blass, J., and Langguth, assignors.)
Arnott, Edward G. F., Montclair, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Method and apparatus for efficiently sterilizing air in ducts. 2,279,810; Apr. 14.
Arterton, Alfred W., assignor to Foster Machine Company, Westfield, Mass. Traverse mechanism for winding machines. 2,279,856; Apr. 14.
Asclepio-Mira Limitada. (See Meyerhof, W., and Trabulsi, assignors.)
Ashley, Roy. (See White, M. C., Sutliffe and Ashley.)
Askue, Albert R. (See Penote, V. S., and Askue.)
Askue, Albert R., Mentor, assignor to The Cleveland Trencher Company, Cleveland, Ohio. Chain tightener. 2,280,021; Apr. 14.
Associated Electric Laboratories, Inc. (See Crocker, Thomas F., assignor.)
Associated Electric Laboratories, Inc. (See Obergfell, Herbert F., assignor.)
Associated Patentees, Inc. (See Powers, Walter P., assignor.)
Associated Telephone & Telegraph Company. (See Ireland, E. B., and Jones, assignors.)
Associated Telephone & Telegraph Company. (See Terroni, T. B. D., assignor.)
Atchley, Dana W., Jr., assignor to Hygrade Sylvania Corporation, Salem, Mass. Electric discharge lamp. 2,279,907; Apr. 14.
Atlantic Coast Fisheries Company, The. (See Bedford, Robert H., assignor.)
Attapulgus Clay Company. (See Laughlin, Carl D., assignor.)
Atwood, Charles E., assignor to Acme Visible Records, Inc., Chicago, Ill. Apparatus for treating flexible visible index material. 2,279,701; Apr. 14.
Attwood, Charles E., assignor to Acme Visible Records, Inc., Chicago, Ill. Card index. 2,279,702; Apr. 14.
Atwood Machine Company. (See Tillinghast, Delbert P.)
Austin, Paul R., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating process. 2,279,771; Apr. 14.
Automatic Control Corporation. (See Persons, Lawrence M., assignor.)
Automatic Shifters, Inc. (See Nampa, Sulo M., assignor.)
Automatic Signal Corporation. (See Wilcox, Harry A., assignor.)
Automotive Maintenance Machinery Co. (See Larson, Kenneth R., assignor.)
Axelson Manufacturing Company. (See Emery, F. C., and Green, assignors.)
Ayars, Charles H., assignor to Ayars Machine Company, Salem, N. J. Receptacle filling machine. 2,279,651; Apr. 14.
Ayars Machine Company. (See Ayars, Charles H., assignor.)
Ayres, Gilbert B., Stamford, and J. G. Niedercorn, Riverside, Conn., assignors to American Cyanamid Company, New York, N. Y. Protein digestion. 2,279,908; Apr. 14.
Ayres, Gilbert B., Stamford, and J. G. Niedercorn, Riverside, Conn., assignors to American Cyanamid Company, New York, N. Y. Protein digestion. 2,279,909; Apr. 14.
Ayres, Gilbert B., Stamford, and J. G. Niedercorn, Riverside, Conn., assignors to American Cyanamid Company, New York, N. Y. Protein digestion. 2,279,910; Apr. 14.
Ayres, Gilbert B., Stamford, and J. G. Niedercorn, Riverside, Conn., assignors to American Cyanamid Company, New York, N. Y. Protein digestion. 2,279,911; Apr. 14.
Babcock & Wilcox Company, The. (See Bailey, Ervin G., assignor.)
Bagshaw, Charles M. (See Bray, W. N., and Bagshaw.)
Bailey, Ervin G., Easton, Pa., assignor to The Babcock & Wilcox Company, Newark, N. J. Liquid vaporizing tube. 2,279,548; Apr. 14.
Bakelite Corporation. (See Seebach, Fritz, assignor.)
Baker, Clarence I., Elizabeth, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Relay. 2,279,811; Apr. 14.
Baker & Company. (See Sivil, Cecil S., assignor.)
Baker, George R., assignor to Baker Perkins Limited, Peterborough, England. Machine for roasting or drying powdered, granular, or like material. 2,279,362; Apr. 14.
Baker, Hastings W., Great Neck, assignor to General Theatres Equipment Corporation, New York, N. Y. Electric shaver. 2,279,363; Apr. 14.
Baker Perkins Limited. (See Baker, George R., assignor.)

Ballard, Walter, New York, N. Y. Measuring spout. 2,279,728; Apr. 14.
Balz, William C., assignor to Shapespeare Company, Kalamazoo, Mich. Fishing reel. 2,279,434; Apr. 14.
Banigan, Thomas F., Kenmore, and O. E. Snyder, Buffalo, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Method and apparatus for molding cellulosic structures. 2,280,022; Apr. 14.
Barber-Colman Company. (See Drake, George F., assignor.)
Bardons and Oliver, Inc. (See Kylin, Oskar, and H. O., assignors.)
Barnes Drill Company. (See Holland, C. O., Brokaw and Lundeen, assignors.)
Barnes, Robert B. (See Ham, G. P., and Barnes.)
Barnhart, George E., Pasadena, Calif. Method of making a hygrometer. 2,279,611; Apr. 14.
Barrett, Edward L., La Grange, assignor to Utah Radio Products Company, Chicago, Ill. Vibrator. 2,280,023; Apr. 14.
Bartlett, Fred, Buffalo, N. Y. Protective cover for automobile bodies. 2,279,812; Apr. 14.
Bassett, Rex E., Jr. (See Chamberlin, J. W., and Bassett.)
Baughman, Edward H. (See Johnson, C. R., and Baughman.)
Beard, Ava M., Butler, Mo. Power take-off for ground pulverizers. 2,279,652; Apr. 14.
Bedford, Burnice D., Schenectady, N. Y., assignor to General Electric Company. Electric converting system. 2,279,729; Apr. 14.
Bedford, Robert H., assignor to The Atlantic Coast Fisheries Company, New York, N. Y. Method of preserving. 2,280,024; Apr. 14.
Behnke, John M., New York, N. Y., assignor to Weycraft Paper Corporation. Treating a fibrous web. 2,279,549; Apr. 14.
Behr-Manning Corporation. (See Amstuz, John O., assignor.)
Belden Manufacturing Company. (See Olson, Elnar R., assignor.)
Belding, Harvey R., Sharpsville, Pa., and J. A. Eckel, Gary, Ind. Vitreous enamel coated steel article and making the same. 2,279,935; Apr. 14.
Bell Aircraft Corporation. (See Trotter, John C., assignor.)
Bell & Howell Company, The. (See Howell, Albert S., assignor.)
Bell Telephone Laboratories, Incorporated. (See Baker, Clarence I., assignor.)
Bell Telephone Laboratories, Incorporated. (See Gannett, Danforth K., assignor.)
Bell Telephone Laboratories, Incorporated. (See Gillich, James J., assignor.)
Bell Telephone Laboratories, Incorporated. (See Hedberg, C. A., and McNally, assignors.)
Bell Telephone Laboratories, Incorporated. (See Henry, I. H., and Korn, assignors.)
Bell Telephone Laboratories, Incorporated. (See Honaman, Richard K., assignor.)
Bell Telephone Laboratories, Incorporated. (See Kater, Joseph A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Lakatos, Emory, assignor.)
Bell Telephone Laboratories, Incorporated. (See Llewellyn, Frederick B., assignor.)
Bell Telephone Laboratories, Incorporated. (See McRae, James W., assignor.)
Bell Telephone Laboratories, Incorporated. (See Weaver, Allan, assignor.)
Bemis Bro. Bag Co. (See Kindseth, Harold V., assignor.)
Bendix Aviation Corporation. (See Reichel, Wladimir A., assignor.)
Bendix Aviation Corporation. (See Whitney, Kenneth E., assignor.)
Bendix Home Appliances, Inc. (See Chamberlin, J. W., and Bassett, Jr., assignors.)
Benedict, Wayne L., and J. E. Ahlberg, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of cracking stocks. 2,279,550; Apr. 14.
Benjamin Electric Mfg. Company. (See Phillips, Paul D., assignor.)
Bennett, Willard H., Newark, Ohio, assignor to Slayter Electronic Corporation. Electric discharge system. 2,279,586; Apr. 14.
Benson, Carl P., Bremerton, Wash. Heating installation. 2,279,772; Apr. 14.
Bent, Austin, Land O'Lakes, Wis. Combined septic tank and grease trap. 2,279,813; Apr. 14.
Berg, Elaine, Chicago, Ill. Hair net. 2,279,435; Apr. 14.
Berg, Herbert, Burghausen, assignor to Chemische Forschungsgesellschaft, m. b. H., Bavaria, Germany. Process for polymerizing vinyl compounds. 2,279,436; Apr. 14.
Bergan, Martin D., Westfield, assignor to The Thomas & Betts Co., Elizabeth, N. J. Wire connector. 2,279,508; Apr. 14.
Berkshire Knitting Mills. (See Sheller, William E., assignor.)
Berliner, Henry A., Washington, D. C., assignor by mesne assignments to Engineering and Research Corporation, Riverdale, Md. Metal forming machine. 2,279,964; Apr. 14.
Berliner, Henry A., and C. E. De Boer, Washington, D. C., assignors to Engineering and Research Corporation, Riverdale, Md. Metal forming machine. 2,279,965; Apr. 14.
Bethlehem Steel Company. (See Nieman, Henry W., assignor.)
Beugler, Samuel B., Los Angeles, Calif. Hose connector. 2,279,437; Apr. 14.
Bienert, Karl. (See Brandenburg, H., and Bienert.)
Blair, Paul C. (See Brodie, D. D., and Blair.)
Blanton, William B., Merrick, assignor to The Western Union Telegraph Company, New York, N. Y. Telegraph exchange system. 2,279,295; Apr. 14.
Blass, Josef, and W. Langguth, assignors to Arado Flugzeugwerke Gesellschaft mit Berschrankter Haftung, Brandenburg, Havel, Germany. Control of aircraft. 2,279,612; Apr. 14.
Blue, John, Laurinburg, N. C. Fertilizer distributor. 2,279,613; Apr. 14.
Blum, Arthur N., Philadelphia, Pa. Meat saw. 2,279,773; Apr. 14.
Boch, Alfred, Yorktown Heights, N. Y. Stereoscopic film viewing apparatus. 2,279,967; Apr. 14.
Bocjl Corporation. (See LaPlace, Desmond R., assignor.)
Bodnar, Frank R., Milford, Conn. Aiming and projecting play apparatus. 2,279,857; Apr. 14.
Bohannan, Robert S., assignor to Toledo Scale Company, Toledo, Ohio. Hydraulic force transmission for weighing scales. 2,279,912; Apr. 14.
Bollinger, James M., New York, N. Y. Separable surgical stocking. 2,280,025; Apr. 14.
Bolton, Elmer K., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coated product. 2,279,774; Apr. 14.
Bosch, Robert, Gesellschaft mit Beschränkter Haftung. (See Kottman, August, assignor.)
Bossi, Romeo A., Newton Center, Mass. Indicating mechanism. 2,279,551; Apr. 14.
Botello, Amador. (See Duffield, William A., assignor.)
Bottomley, Joseph A., et al. (See Busse, W. J., Wallace, and Lanham, assignors.)
Bouchard, Blanche E. (See Du Grenier, Francis C., assignor.)
Bowan, Walter J. (See Mueller, F. H., and Bowan.)
Bowlby, Walter D., assignor to Trojan Powder Company, Allentown, Pa. Resinous compositions. 2,279,438; Apr. 14.
Bowlby, Walter D., assignor to Trojan Powder Company, Allentown, Pa. Lacquer composition. 2,279,439; Apr. 14.
Bowman, Robert A., Folcroft, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Heat exchange apparatus. 2,279,552; Apr. 14.
Bradley, Ivan H., Stratford, Conn. Wood-turning machine. 2,279,730; Apr. 14.
Bradley, William E., and J. L. Volz, assignors to Union Oil Company of California, Los Angeles, Calif. Catalytic conversion of hydrocarbons. 2,279,703; Apr. 14.
Bradt, Rexford H., assignor to Fox River Paper Corporation, Appleton, Wis. Method and apparatus for applying coatings to webs. 2,279,553; Apr. 14.
Brandeberry, Howard D., Toledo, Ohio. Weeding tool. 2,279,747; Apr. 14.
Brandenburg, Hermann, Berlin-Tempelhof, and K. Bienert, Berlin, assignors to Mergenthaler Linotype Company, Brooklyn, N. Y. Brake for revolving machine parts. 2,279,775; Apr. 14.
Brandt, Thomas F., Barberton, assignor to The Ohio Brass Company, Mansfield, Ohio. Bushing insulator. 2,280,032; Apr. 14.
Braun, Gwilym S., Strasburg, Ohio, assignor to Knapp-Monarch Company, St. Louis, Mo. Electric iron construction. 2,279,731; Apr. 14.
Bray, William N., and C. M. Bagshaw, Leicester, England, assignors to United Shoe Machinery Corporation, Borough of Flemington, N. J. Shoe filling machine. 2,279,440; Apr. 14.
Breidenbaugh, Christian P. (See Turner, J. F., and Breidenbaugh.)
Breitling, Ernst, Berlin-Tempelhof, G. Topel, Berlin-Reinickendorf, and O. Philipp, Berlin-Lichtenberg, Germany, assignors to The National Cash Register Company, Dayton, Ohio. Cash register. 2,279,858; Apr. 14.
Bresnick, Esther S. (See Bresnick, H., and E. S.)
Bresnick, Harry and E. S., New York, N. Y. Protective sleeve for children. 2,279,296; Apr. 14.
Brewer, Charles A., Noroton Heights, Conn., assignor of one-half to P. J. Kury, Arverne, N. Y. Power device. 2,279,732; Apr. 14.
Briggs & Stratton Corporation. (See Jacobi, Edward N., assignor.)
Brimer, Marshall R., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Process for purifying phenylenediamine derivatives. 2,279,385; Apr. 14.
Britton, Edgar C., and H. R. Slagh, assignors to The Dow Chemical Company, Midland, Mich. Glycerol dichlorhydrin. 2,279,509; Apr. 14.
Brodie, Damon D., Long Beach, and P. C. Blair, Los Angeles, Calif. Vending machine. 2,279,936; Apr. 14.

Brokaw, Roscoe T. (See Holland, C. O., Brokaw, and Lundeen.)
Browall, Bert H., assignor to Svenska Aktiebolaget Bromsregulator, Malmo, Sweden. Operating mechanism for double-acting automatic brake slack adjusters. 2,279,653; Apr. 14.
Brown, Charles H., Baldwin, N. Y., assignor to Radio Corporation of America. Ultra short wave system. 2,280,026; Apr. 14.
Brown, Thomas J., Cohoes, N. Y. Dewaxing crude and refined petroleum oils. 2,279,937; Apr. 14.
Browne, Cecil O., West Acton, London, and H. E. Holman, assignors to Electric & Musical Industries Limited, Hayes, Middlesex, England. Optical image producing and viewing arrangement. 2,279,555; Apr. 14.
Brubaker, Mervin R., New York, N. Y. Finger holder for sheet material. 2,279,554; Apr. 14.
Brünnert, Otto. (See Severin, E., and Brünnert.)
Bry, Edwin, Elberon, N. J., assignor to Edwin & Louis Bry, Inc., New York, N. Y. Knop yarn and making the same. 2,279,297; Apr. 14.
Bry, Edwin & Louis, Inc. (See Bry, Edwin, assignor.)
Bryant, Frederick W., Montclair, N. J. Cigarette package case. 2,279,614; Apr. 14.
Buchmann, Kurt, and H. Zuhrt, assignors to "Fides" Gesellschaft für die Verwaltung und Verwertung von gewerblichen Schutzrechten, m. b. H., Berlin, Germany. Ultra-short wave generator. 2,279,441; Apr. 14.
Budd, Edward G., Manufacturing Company. (See Westrope, Fred J., assignor.)
Budd Wheel Company. (See Davenport, Talmon A., assignor.)
Bugatti, Ettore, Paris, France. Aircraft. 2,279,615; Apr. 14.
Bugg, Kenly C., Farmington, Mo., assignor to Neptune Meter Company. Counting mechanism. 2,279,556; Apr. 14.
Bulkley, Reginald W., Kansas City, Mo. Humidifier. 2,279,966; Apr. 14.
Burch Corporation, The. (See Ross, Lester T., assignor.)
Burdick, Harry J. McC., Anaheim, Calif. Valve. 2,279,298; Apr. 14.
Burgess Battery Company. (See Lawson, Herbert E., assignor.)
Burns, James B., and T. L. Keith, Atlanta, Ga. Collapsible bottle holder. 2,279,442; Apr. 14.
Burson, Harry H., assignor to N. C. Spong, Chicago, Ill. Wall construction. 2,279,898; Apr. 14.
Burt, Guy H. (See Cavanagh, John F., assignor.)
Busse, William J., F. Wallace, and A. W. Lanham, Carriers Mills, assignors of one-fifth to J. A. Bottomley, Harrisburg, and one-fifth to A. E. Pickard, Mount Vernon, Ill. Cable connector. 2,280,027; Apr. 14.
C-O-Two Fire Equipment Company. (See Allen, Scott E., assignor.)
Cadbury, George N., assignor to E. M. B. Company Limited, West Bromwich, England. Compressed air intensifier. 2,279,364; Apr. 14.
Calahan, Ellen A., Georgetown, Tex. Server. 2,279,868; Apr. 14.
Caldwell Manufacturing Co. (See Tappan, Dewitt, assignor.)
Caletti, Giacomo. (See Guarnieri, G. M., and Caletti.)
Calvert, William C., assignor to Marbon Corporation, Gary, Ind. Hot melt rubber condensation derivative composition. 2,279,557; Apr. 14.
Cameron, Mortimer B., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Clutch mechanism. 2,279,365; Apr. 14.
Canterbury, Harry H., Whittier, Calif. Work holder for facing machines. 2,279,616; Apr. 14.
Carbide and Carbon Chemicals Corporation. (See Domizi, Dario, assignor.)
Carbide and Carbon Chemicals Corporation. (See Law, G. H., and Chitwood, assignors.)
Carborundum Company, The. (See Patt, Leon A., assignor.)
Carroll, Robert A., West Finley, Pa. Fuel mixer. 2,279,776; Apr. 14.
Carter, Ralph V., Half Moon Bay, Calif. Metal bending machine. 2,279,654; Apr. 14.
Carver, Richard N., Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Projectile shooting toy. 2,279,386; Apr. 14.
Casati, Anne M. L. (See Gustave, J. E. G., Casati, and Gonnard.)
Casperson, Carl E., Tulsa, Okla. Swivel joint for rotary drilling. 2,279,969; Apr. 14.
Catania, Joseph, Monongah, W. Va. Short-circuiting device. 2,279,655; Apr. 14.
Cavanagh, John F., Providence, R. I. Splicer for rubber thread. 2,279,299; Apr. 14.
Cavanagh, John F., Providence, R. I. Splicing rubber thread. 2,279,300; Apr. 14.
Cavanagh, John F., assignor to G. H. Burt, Providence, R. I. Lamp socket. 2,279,913; Apr. 14.
Celanese Corporation of America. (See Moncrieff, R. W., and Sammons, assignors.
Celotex Corporation, The. (See Swenson, George E., assignor.)
Chamberlin, John W., and R. E. Bassett, Jr., assignors to Bendix Home Appliances, Inc., South Bend, Ind. Washing machine. 2,279,656; Apr. 14.
Chance, A. B., Company. (See Fee, E. M., and Murrie, assignors.)
Chanosky, Adolph, Fort Worth, Tex. Stereoscopic atachment for cameras. 2,279,443; Apr. 14.
Chantler, Lewis W., Charles Town, W. Va., assignor to The Standard Lime and Stone Company, Baltimore, Md. Metallurgical flux and method of using the same. 2,279,617; Apr. 14.
Chase, Sherman, Evergreen Park, and Harold Holmboe, Chicago, Ill. Apparatus for heating liquids. 2,280,028; Apr. 14.
Chason, Daniel H., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Treadle. 2,279,587; Apr. 14.
Chedister, Joseph L. and T. J. Engel, St. Paul, Minn. Water tube boiler. 2,279,618; Apr. 14.
Cheetham, Harold C., Philadelphia, and R. J. Meyers, Elkins Park, assignors to The Resinous Products & Chemical Company, Philadelphia, Pa. Resin emulsion with constant viscosity. 2,279,387; Apr. 14.
Chemische Forschungsgesellschaft, m. b. H. (See Berg, Herbert, assignor.)
Cheney, Harry A., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Isomerizing hydrocarbons. 2,279,291; Apr. 14.
Cheney, Harry A., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Isomerizing hydrocarbons. 2,279,292; Apr. 14.
Cherry, Charles A., assignor, by mesne assignments, of one-half to F. W. Haines, Detroit, Mich. Tool holder. 2,279,899; Apr. 14.
Chicago Carton Company. (See Richardson, Ralph R., assignor.)
Childs, Henry R., Kingsport, Tenn., assignor, by mesne assignments to Eastman Kodak Company, Rochester, N. Y. Cellulose derivative crepe sheeting. 2,279,366; Apr. 14.
Chitwood, Henry C. (See Law, G. H., and Chitwood.)
Christensen, Arthur L., Woodbridge, N. J., assignor to International Smelting and Refining Company. Separating and separately recovering zinc and nickel. 2,279,900; Apr. 14.
Christie, George S., Paterson, N. J. Calculating machine. 2,279,444; Apr. 14.
Chromogen, Incorporated. (See Gaspar, Bela, assignor.)
Chrysler Corporation. (See Foresman, S. T., and Hunter, assignors.)
Chrysler Corporation. (See Goode, G. C., and Sherman, assignors.)
Chrysler Corporation. (See Jackson, C. C., and Johnson, assignors.)
Chrysler Corporation. (See McKechnie, Ian C., assignor.)
Chrysler Corporation. (See Neracher, Carl A., assignor.)
Chrysler Corporation. (See Werdehoff, Albert B., assignor.)
Cinch Manufacturing Corporation. (See Del Camp, Scipione M., assignor.)
Clancy, William E., assignor to Stackpole Carbon Company, St. Marys, Pa. Resistor. 2,279,445; Apr. 14.
Clark, Francis R. (See Smith, E. L., and Clark.)
Clerc, Leonard F., Chicago, Ill. Refrigeration device. 2,279,558; Apr. 14.
Cleveland Trencher Company, The. (See Askue, Albert R., assignor.)
Cleveland Trencher Company, The. (See Penote, V. S., and Askue, assignors.)
Cleveland Automatic Machine Company, The. (See Jelinek, A. F., and Gross, assignors.)
Clifford, Albert M., Stow, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Copolymers of butadienes with unsaturated alcohol esters of acrylic acids. 2,279,293; Apr. 14.
Cluett, Peabody & Co. (See Snyder, A. F., and Solomon, assignors.)
Coe, Harrison S., Palo Alto, Calif. Thickening apparatus. 2,279,970; Apr. 14.
Colbar, Inc. (See Munshower, Clarence F., assignor.)
Colgate-Palmolive-Peet Company. (See Dreger, E. E., Ross, and Kirschenbauer, assignors.)
Colley, George A., Newton Centre, and J. H. Hammond, Jr., Gloucester, Mass., said Colley assignor to said Hammond, Jr. Variable pitch propeller control. 2,279,301; Apr. 14.
Compagnie Generale de Telegraphie sans Fil. (See Vaudoux, Henry, assignor.)
Conmar Products Corporation. (See Ulrich, Frederick, assignor.)
Cooke, Hereward L., Princeton, N. J., assignor to Aero Survey Corporation. Relief map. 2,279,446; Apr. 14.
Corning Glass Works. (See Gray, David E., assignor.)
Cottrell, Robert B., assignor to American Steel Foundries, Chicago, Ill. Friction absorbing device. 2,279,914; Apr. 14.
Cowey, Leonard E., Kew Gardens, England. Shock absorber strut or oleo leg for aircraft. 2,279,447; Apr. 14.
Cox, John C. (See Milster, A. N., and Cox.)
Cox, Joseph F., Arlington, Mass. Lock nut and making the same. 2,279,388; Apr. 14.
Craig, Edward C., United States Navy. Anchor. 2,279,302; Apr. 14.
Cram, George F., Detroit, Mich., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Socket device for lamps and the like. 2,279,915; Apr. 14.

Crawford, Richard A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Mold lubricant. 2,279,859; Apr. 14.

Crawford, Richard A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Treating rubber surfaces and product thereof. 2,279,860; Apr. 14.

Crawford, Robert B. P., Miami, Fla. Air conditioning system. 2,279,657; Apr. 14.

Crawford, Robert B. P., Miami, Fla. Conditioning of gases. 2,279,938; Apr. 14.

Crebbs, Earl R., San Francisco, assignor to Stanley Pedder, Contra Costa County, Calif. Container. 2,279,658; Apr. 14.

Criger, Glenn M. (See Paxton, G. C., Criger and Paxton (W. H.))

Crocker, Thomas F., assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,279,448; Apr. 14.

Crooks, Ralph K., Sharpsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,279,971; Apr. 14.

Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Frequency modulator. 2,279,659; Apr. 14.

Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Wave length modulation system. 2,279,660; Apr. 14.

Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Wave control and control circuit. 2,279,661; Apr. 14.

Cross, Harry N., Los Angeles, Calif. Hose coupling. 2,279,733; Apr. 14.

Crosse, Margaret, Los Angeles, Calif. Detoxicant and method of producing same. 2,279,879; Apr. 14.

Crout, Prescott D., Belmont, assignor to Raytheon Manufacturing Company, Newton, Mass. Electrical apparatus. 2,279,303; Apr. 14.

Crowe, John J., Westfield, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Flame hardening control. 2,280,029; Apr. 14.

Crowley, John C., Cleveland Heights, assignor to The Dill Manufacturing Company, Cleveland, Ohio. Torch. 2,279,367; Apr. 14.

Crown Stove Works. (See Rogers, John C., assignor.)

Cunningham, William E., Norman, Okla. Garment pocket. 2,279,972; Apr. 14.

Curtiss-Wright Corporation. (See Hathorn, Charles E., assignor.)

Cutler-Hammer, Inc. (See Taylor, John R., assignor.)

D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Interpolymer of di-(secondary butyl) itaconate and ethyl methacrylate. 2,279,881; Apr. 14.

D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Interpolymers of di-(methoxyethyl), itaconate and ethyl methacrylate. 2,279,882; Apr. 14.

D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Interpolymers of dihexyl itaconate and ethyl methacrylate. 2,279,883; Apr. 14.

D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Interpolymers of dibenzyl itaconate and ethyl methacrylate. 2,279,884; Apr. 14.

A'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Interpolymers of di-(isobutyl carbinol) itaconate and ethyl methacrylate. 2,279,885; Apr. 14.

Darling, Earl N., Rockland, Idaho. Blackboard eraser. 2,279,559; Apr. 14.

Davenport, Talmon A., Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Wheel assembly and cover therefor. 2,279,704; Apr. 14.

Davis, Malcolm P. (See Jones, J. G., and Davis.)

Davis, Wilfred O., London, assignor to S. Smith & Sons (Motor Accessories) Limited, Cricklewood, London, England. Fluid pressure instrument. 2,279,861; Apr. 14.

Dayhuff, Walter C., Whittier, assignor to Standard Oil Company of California, San Francisco, Calif. Liquefied gas odorizer and using same. 2,279,705; Apr. 14.

Deak, Frank, New York, N. Y. Collapsible easy chair. 2,279,748; Apr. 14.

Deak, Frank, New York, N. Y. Foldable chair canopy. 2,279,749; Apr. 14.

Dean, Anna L., Cleveland, Ohio. Garment hanger. 2,279,777; Apr. 14.

De Benedictis, Aldo. (See Luten, D. B., Jr., and De Benedictis.)

De Boer, Christian. (See Berliner, H. A., and de Boer.)

DeCurtis, Frank, Queens Village, and F. DeVito, Brooklyn, N. Y. Method of and apparatus for re-shaping shoes. 2,279,304; Apr. 14.

Delaney, Thomas W., St. Paul, Minn. Pipe and tube bender. 2,279,389; Apr. 14.

Del Camp, Scipione M., Maywood, assignor to Cinch Manufacturing Corporation, Chicago, Ill., Fastener member and fastener installation. 2,279,916; Apr. 14.

De Margitta, Michael J. N., New York, N. Y., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Photoflash lamp. 2,279,880; Apr. 14.

Denner, Charlotte, Santa Rosa, Calif. Rug needle. 2,279,662; Apr. 14.

Detrich, M. H., Company. (See Hosbein, Louis H., assignor.)

Detroit Air Filter Co. (See Lamb, Charles G., assignor.)

Detroit Gasket & Mfg. Co. (See Diehl, Lloyd H., assignor.)

Detroit Lubricator Company. (See Russel, Philip S., assignor.)

DeVito, Felix. (See DeCurtis, Frank, and DeVito.)

Dickey, Joseph B. (See McNally, J. G., and Dickey.)

Dickey, Joseph B., and J. G. McNally, assignors to Eastman Kodak Company, Rochester, N. Y. Yarn conditioning process and compositions therefor. 2,279,501; Apr. 14.

Dickey, Joseph B., and J. G. McNally, assignors to Eastman Kodak Company, Rochester, N. Y. Yarn conditioning process and compositions therefor. 2,279,502; Apr. 14.

Dickinson, Edgar D., Beverly, Mass., assignor to General Electric Company. Packing arrangement. 2,279,814; Apr. 14.

Dictaphone Corporation. (See Norton, L. D., and Lucarelle, assignors.)

Dieckmann, Armin J., Saginaw, Mich. Key container. 2,279,449; Apr. 14.

Diehl, Lloyd H., assignor to Detroit Gasket & Mfg. Co., Detroit, Mich. Gasket. 2,279,450; Apr. 14.

Dietert, Harry W., Detroit, Mich. Dilatometer. 2,279,368; Apr. 14.

Dietrich, Melvin A., Claymont, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Viscous hydrocarbon oil. 2,279,560; Apr. 14.

Dietrich, Melvin A., Claymont, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Stabilization of viscous petroleum oils. 2,279,561; Apr. 14.

Dietrich, Melvin A., Claymont, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Stabilization of organic substances. 2,279,973; Apr. 14.

Dill Manufacturing Company, The. (See Crowley, John C., assignor.)

Dillon, Robert A., Los Angeles, Calif. Cuff guard and form protector. 2,279,663; Apr. 14.

DiMartile, Thomas A., Fort Erie, Ontario, Canada. Light control device. 2,279,939; Apr. 14.

Dinhofer, Julius, New York, N. Y. Diamond-polishing wheel. 2,279,940; Apr. 14.

Dole Valve Company, The. (See Pratt, Elmer J., assignor.)

Domizi, Dario, Parma, Ohio, assignor to Carbide and Carbon Chemicals Corporation. Formation of plastic sheets. 2,279,901; Apr. 14.

Douglas Aircraft Company. (See Kerlin, William L., assignor.)

Dow Chemical Company, The. (See Britton, E. C., and Slagh, assignors.)

Dow Chemical Company, The. (See McDonald, John C., assignor.)

Downer, John M., Schenectady, N. Y., assignor to General Electric Company. Packing arrangement. 2,279,863; Apr. 14.

Drake, George F., assignor to Barber-Colman Company, Rockford, Ill. Thermostat. 2,279,305; Apr. 14.

Dreger, Emil E., Summit, N. J., J. Ross, New York, N. Y., and H. G. Kirschenbauer, Ridgefield, assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J. Organic materials and making same. 2,279,734; Apr. 14.

Dressel, Henry M., Chicago, Ill., assignor to Oak Mfg. Co. Potentiometer. 2,279,815; Apr. 14.

Dudley Lock Corporation. (See Machinist, Harold, assignor.)

Duffield, William A., Windsor, Ontario, Canada, assignor, by mesne assignments, to A. Botello, New York, N. Y. Fluid coupling. 2,280,042; Apr. 14.

Du Grenier, Francis C., assignor of one-half to B. E. Bouchard, Haverhill, Mass. Coin controlled mechanism. 2,279,664; Apr. 14.

Du Grenier, Francis C., assignor of one-half to B. E. Bouchard, Haverhill, Mass. Coin controlled mechanism. 2,279,665; Apr. 14.

Dunham, Carlton R., London, and V. J. Francis, North Wembley, England, assignors to General Electric Company. Cooling system for vapor lamps. 2,279,941; Apr. 14.

Dunlap, Weyman B., Jr., Houston, Tex. Underreamer. 2,279,562; Apr. 14.

Du Pont, E. I., de Nemours & Company. (See Austin, Paul R., assignor.)

Du Pont, E. I., de Nemours & Company. (See Banigan, T. F., and Snyder, assignors.)

Du Pont, E. I., de Nemours & Company. (See Bolton, Elmer K., assignor.)

Du Pont, E. I., de Nemours & Company. (See Dietrich, Melvin A., assignor.)

Du Pont, E. I., de Nemours & Company. (See English, M. H., and Nydegger, assignors.)

Du Pont, E. I., de Nemours & Company. (See Jacobson, Ralph A., assignor.)

Du Pont, E. I., de Nemours & Company. (See Jebens, Walter J., assignor.)

Du Pont, E. I., de Nemours & Company. (See Johnson, C. R., and Baughman, assignors.)

Du Pont, E. I., de Nemours & Company. (See Peters, Franklin T., assignor.)

Du Pont, E. I., de Nemours & Company. (See Sackett, Justus R., assignor.)

Du Pont, E. I., de Nemours & Company. (See Smith, S. C., and Van Ness, assignors.)

Du Pont, E. I., de Nemours & Company. (See Spaeth, Charles P., assignor.)

Du Pont, E. I., de Nemours & Company. (See Stevenson, Halsey B., assignor.)

Du Pont, E. I., de Nemours & Company. (See Tisdale, Wendell H., assignor.)

Dye, Paul J., Lyndhurst, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Wrap measuring apparatus. 2,279,563; Apr. 14.

E. M. B. Company Limited. (See Cadbury, George N., assignor.)

Eastman Kodak Company. (See Altman, Fred E., assignor.)

Eastman Kodak Company. (See Brimer, Marshall R., assignor.)

Eastman Kodak Company. (See Childs, Henry R., assignor.)

Eastman Kodak Company. (See Dickey, J. B., and McNally, assignors.)

Eastman Kodak Company. (See Gillon, John W., assignor.)

Eastman Kodak Company. (See Herzberger, Maximilian J., assignor.)

Eastman Kodak Company. (See Hopkins, Roy S., assignor.)

Eastman Kodak Company. (See Hutchinson, Miller R., Jr., assignor.)

Eastman Kodak Company. (See Jones, J. G., and Davis, assignors.)

Eastman Kodak Company. (See Leermakers, J. A., and Fierke.)

Eastman Kodak Company. (See McNally, J. G., and Dickey, assignors.)

Eastman Kodak Company. (See Mihalyi, Joseph, assignor.)

Eastman Kodak Company. (See Nadeau, G. F., Simmons and Kenyon, assignors.)

Eastman Kodak Company. (See Nagel, August, assignor.)

Eastman Kodak Company. (See Peterson, Willard D., assignor.)

Eaton Manufacturing Company. (See Findley, Howard J., assignor.)

Eaton Manufacturing Company. (See Payne, Lambert M., assignor.)

Eckel, John A. (See Belding, Harvey R., and Eckel.)

Eckhardt, Elmer R. (See Seibert, H. F., Szabo, Wyeno and Eckhardt.)

Edge, Dexter, Gary, Ind. Continuous furnace. 2,279,917; Apr. 14.

Elde, Guy R., Detroit, Mich. Collapsible filing rack. 2,279,864; Apr. 14.

Elmco Corporation, The. (See Royle, Edwin B., assignor.)

Ekstedt, John W., and K. W. Ekstedt, Union, assignors to General Eyelet Supply Company, Inc., Roselle Park, N. J. Notching machine. 2,279,390; Apr. 14.

Ekstedt, Kenneth W. (See Ekstedt, J. W., and K. W.)

Electric & Musical Industries Limited. (See Browne, C. O., and Holman, assignors.)

Electric & Musical Industries Limited. (See Holman, Herbert E., assignor.)

Electroacustic Gesellschaft mit Beschränkter Haftung. (See John, Ulrich, assignor.)

Ellinwood, Herman R., North Hollywood, assignor to Adel Precision Products Corp., Burbank, Calif. Supporting clip. 2,279,865; Apr. 14.

Ellinwood, Herman R., assignor to Adel Precision Products Corp., Burbank, Calif. Conduit supporting clip. 2,279,866; Apr. 14.

Emery, Frank C., Los Angeles, and E. F. Green, Lynwood, assignors to Axelson Manufacturing Co., Los Angeles, Calif. Apparatus for flame hardening tubular structures. 2,279,564; Apr. 14.

Engel, Karl H., West Englewood, N. J., assignor, by mesne assignments, to Allied Chemical & Dye Corporation. Production of high-indene-content hydrocarbon oils. 2,279,778; Apr. 14.

Engel, Karl H., West Englewood, N. J., assignor, by mesne assignments, to Allied Chemical & Dye Corporation. Production of high-indene-content hydrocarbon oils. 2,279,779; Apr. 14.

Engel, Karl H., West Englewood, N. J., assignor, by mesne assignments, to Allied Chemical & Dye Corporation. Production of high-indene-content hydrocarbon oils. 2,279,780; Apr. 14.

Engel, Thomas J. (See Chedister, J. L., and Engel.)

Engineering and Research Corporation. (See Berliner, Henry A., assignor.)

Engineering and Research Corporation. (See Berliner, H. A., and de Boer, assignors.)

Engineering Development Corporation. (See Unger, Gilbert C., Jr., assignor.)

English, Myrle H., Pompton Lakes, N. J., and R. R. Nydegger, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Electric blaster initiator. 2,279,451; Apr. 14.

Enos, John P., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Hemming attachment for sewing machines. 2,279,588; Apr. 14.

Eppler, Andrew, Jr., Lynn, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Protective cap for spray guns. 2,279,391; Apr. 14.

Eppler, Christian L., assignor to Midwest Tool & Manufacturing Company, Detroit, Mich. Making sheaves. 2,279,816; Apr. 14.

Etnyre, E. D., & Company. (See Etnyre, Samuel R., assignor.)

Etnyre, Samuel R., assignor to E. D. Etnyre & Company, Oregon, Ill. Pressure release closure device. 2,279,666; Apr. 14.

Evans Products Company. (See Evans, Robert B., assignor.)

Evans Products Company. (See Evans, R. B., and Farrell, assignors.)

Evans, Robert B., Grosse Pointe, assignor to Evans Products Company, Detroit, Mich. Space heater. 2,279,975; Apr. 14.

Evans, Robert B., Grosse Pointe, and E. F. Farrell, assignors to Evans Products Company, Detroit, Mich. Space heater. 2,279,974; Apr. 14.

Fabbrica Italiana Magneti Marelli Società Anonima. (See Guarnieri, G. M., and Calettl, assignors.)

Fabristeel Products, Inc. (See Langmaid, Charles T., assignor.)

Fairbanks, Morse & Co. (See Vogel, Edward A., assignor.)

Falk & Company. (See Gutkin, Samuel S., assignor.)

Falk, Isidore, Brooklyn, N. Y. Hair net. 2,279,867; Apr. 14.

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Locomotive brake control system. 2,279,392; Apr. 14.

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake control means. 2,279,452; Apr. 14.

Farrell, Eugene F. (See Evans, R. B., and Farrell.)

Faulhaber Company, The. (See Faulhaber, Roland W., assignor.)

Faulhaber, Roland W., assignor to The Faulhaber Company, Monroeville, Ohio. Saddle. 2,279,817; Apr. 14.

Faust, William C., Corpus Christi, Tex. Automatic safety device for boilers. 2,279,976; Apr. 14.

Fee, Edward M., Northbrook, and C. R. Murrie, Deerfield, Ill., assignors to A. B. Chance Company, Centralia, Mo. Expanding pole key. 2,279,918; Apr. 14.

Fellows Gear Shaper Company, The. (See Miller, Edward W., assignor.)

Felt & Tarrant Mfg. Co. (See Niemann, Frederick A., assignor.)

Ferlin, John J., Los Angeles, Calif., assignor, by direct and mesne assignments, to E. Westberg and L. L. Swarthe, as trustees. Pneumatic conveying means. 2,279,306; Apr. 14.

Fibreboard Products Inc. (See Ford, G. F., Lewis, and Pittman, assignors.)

"Fides" Gesellschaft für die Verwaltung und Verwertung von gewerblichen Schutzrechten, m. b. H. (See Buchmann, K., and Zuhrt, assignors.)

Fierke, Scheuring S. (See Leermakers, J. A., and Fierke.)

Fillinger, Charles. (See Herr, H. E., and Fillinger.)

Findley, Howard J., Euclid, assignor to Eaton Manufacturing Company, Cleveland, Ohio. Fresh air intake device. 2,279,369; Apr. 14.

Finnan, Lawrence J., Jr., New Castle County, assignor of one-half to E. M. Symmes, Wilmington, Del. Hosiery protector. 2,279,453; Apr. 14.

Fischer, Herbert, Plumsteadville, Pa. Floor scraper. 2,279,454; Apr. 14.

Fisher, Herbert H., San Francisco, Calif. Dishwashing machine. 2,279,619; Apr. 14.

Fleisher, Harry, Watertown, Conn., assignor to Princeton Knitting Mills, Inc. Knitted pile fabric. 2,279,919; Apr. 14.

Fletcher, James, assignor of one-half to F. Kuhn, as trustee, for A. C. Kuhn, Detroit, Mich. Flux. 2,279,565; Apr. 14.

Flynn & Emrich Company. (See Turner, J. F., and Breidenbaugh, assignors.)

Fogarty, James, Randwick, New South Wales, Australia. Container and distributor of lip staining material. 2,279,781; Apr. 14.

Food Machinery Corporation. (See Paxton, G. C., Criger, and Paxton (W. H.), assignors.)

Food Manufacturing Corporation. (See Musher, Albert, assignor.)

Forbes Lithograph Manufacturing Company, The. (See Nelson, George S., assignor.)

Ford, George F., Los Angeles, B. R. Lewis, San Marino, and W. F. Pittman, Huntington Park, assignors to Fibreboard Products Inc., San Francisco, Calif. Box. 2,279,670; Apr. 14.

Ford, Henry, assignor to Ford Motor Company, Dearborn, Mich. Cylinder liner. 2,279,671; Apr. 14.

Ford Motor Company. (See Ford, Henry, assignor.)

Ford Motor Company. (See Holm, Charles L., assignor.)

Foresman, Seth T., Royal Oak, and W. A. Hunter, assignors to Chrysler Corporation, Highland Park, Mich. Fluid coupling balancing. 2,279,977; Apr. 14.

Forsberg, Albin L., Chicago, Ill., assignor to The Warfield Company. Can body. 2,279,667; Apr. 14.

Forsberg, Albin L., Chicago, Ill., assignor to The Warfield Company. Can. 2,279,668; Apr. 14.

Foster Machine Company. (See Arterton, Alfred W., assignor.)

Fountain, William, Mason, Mich. Closed circuit alarm. 2,279,394; Apr. 14.

Fowler, Bert F., South Bend, Ind. Surface finishing apparatus. 2,279,782; Apr. 14.

Fowler, Bert F., South Bend, Ind. Surface finishing machine. 2,279,783; Apr. 14.
Fox River Paper Corporation. (See Bradt, Rexford H., assignor.)
Fram Corporation. (See Aldham, Thomas E., assignor.)
Francis, Victor J. (See Dunham, C. R., and Francis.)
Frantz, Walter A., Shaker Heights, assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio. Washing machine. 2,279,510; Apr. 14.
Freeman, George A., East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Making seals. 2,279,818; Apr. 14.
French, Walter D. (See Long, R. G., and French.)
Freund, Robert R., Mount Carmel, Ill. Posture bed structure. 2,279,307; Apr. 14.
Friden Calculating Machine Company. (See Friden, Carl M., assignor.)
Friden Calculating Machine Co. (See Friden, C. M., and Moody, assignors.)
Friden Calculating Machine Co. (See Machado, Anthony B., assignor.)
Friden Calculating Machine Co. (See Moody, John L., assignor.)
Friden, Carl M. F., Piedmont, Calif., assignor to Friden Calculating Machine Co., Inc. Calculating machine. 2,279,455; Apr. 14.
Friden, Carl M., Pleasanton, and J. L. Moody, Oakland, Calif., assignors to Friden Calculating Machine Co., Inc. Calculating machine. 2,279,456; Apr. 14.
Friskney, Ray L., Aurora, Ill. Shaft sealing unit. 2,279,669; Apr. 14.
Fuchs, Charles, Philadelphia, Pa. Sanitary mattress. 2,279,886; Apr. 14.
Fuchs, Henry, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorbing mechanism. 2,279,308; Apr. 14.
Fuller, R. L. (See McCombs, George B., assignor.)
Fyler, George W., Stratford, Conn., assignor to General Electric Company. Signal receiving system. 2,279,819; Apr. 14.
Gannett, Danforth K., Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 2,279,978; Apr. 14.
Gardiner, Laurence E., Stratford, N. J. Relay. 2,279,395; Apr. 14.
Garms, Peter. (See Millar, P. S., and Garms.)
Gaspar, Bela, Hollywood, Calif., assignor to Chromogen, Incorporated. Material for producing photographic multicolor images. 2,279,309; Apr. 14.
Gates, Elmer H., assignor to N. W. Gates, Arlington, Va. Vegetation-bearing display surface and system. 2,279,735; Apr. 14.
Gates, Noel W. (See Gates, Elmer H., assignor.)
General American Precooling Corporation. (See Stebbins, Harry Y., assignor.)
General Aniline & Film Corporation. (See Wolff, H., Krauch, and Wilke, assignors.)
General Electric Company. (See Bedford, Burnice D., assignor.)
General Electric Company. (See D'Alelio, Gaetano F., assignor.)
General Electric Company. (See Dickinson, Edgar D., assignor.)
General Electric Company. (See Downer, John M., assignor.)
General Electric Company. (See Dunham, C. R., and Francis, assignors.)
General Electric Company. (See Fyler, George W., assignor.)
General Electric Company. (See Stapleton, Patrick L., assignor.)
General Electric Company. (See Suits, C. G., and Skinner, assignors.)
General Electric Company. (See Warrington, Albert R. Van C., assignor.)
General Eyelet Supply Company. (See Ekstedt, J. W., and K. W., assignors.)
General Mills, Inc. (See Hayden, Howard L., assignor.)
General Motors Corporation. (See Stickel, Carl A., assignor.)
General Theatres Equipment Corporation. (See Baker, Hastings W., assignor.)
General Theatres Equipment Corporation. (See Hines, Earl G., assignor.)
Gensmer, Theodore F., Portland, Oreg. Pistol catapult. 2,279,457; Apr. 14.
Gerwig, Oscar L., Pittsburgh, Pa. Crayon sharpener. 2,279,672; Apr. 14.
Gilbert, Henry P. (See Morgenstern, R. V., and Gilbert.)
Gillich, James J., Elizabeth, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cutting tool. 2,279,979; Apr. 14.
Gillon, John W., assignor to Eastman Kodak Company, Rochester, N. Y. Flashlight synchronizing device. 2,279,370; Apr. 14.
Gilson, Robert M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Coded track circuit system of railway signaling. 2,279,980; Apr. 14.
Girardin, Louis, Paris, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa. Coded track circuit signaling system. 2,279,981; Apr. 14.
Glynn, Henry L., St. Louis, Mo. Rotary toothbrush. 2,279,982; Apr. 14.
Going, George G., Stamford, Conn., assignor to Remington Rand Inc., Buffalo, N. Y. Mechanical razor. 2,279,784; Apr. 14.
Goldfisher, Fred. (See Jakob, L. V., and Goldfisher.)
Gonnard, Jean L. (See Lahousse, J. E. G., Casati, and Gonnard.)
Goode, Gilbert C., Birmingham, and V. W. Sherman, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Windshield cleaner. 2,279,983; Apr. 14.
Goodenough, Jerome P. (See Judell, J. S., and Goodenough.)
Goodman Manufacturing Company. (See Hagenbook, Loy D., assignor.)
Goodman Manufacturing Company. (See Wood, Frank J., assignor.)
Goodrich, B. F., Company, The. (See Crawford, Richard A., assignor.)
Goodrich, B. F., Company, The. (See Semon, Waldo L., assignor.)
Goodwin, Don O., St. Louis, Mo. Spotting board. 2,279,984; Apr. 14.
Gordon, Melvin C., assignor to Lincoln Packing Co., Lincoln, Calif. Produce canning machine. 2,279,371; Apr. 14.
Gottignies, Louis. (See Gottignies, Rodolphe and L.)
Gottignies, Rodolphe, Rousies, France, and L. Gottignies, Watermael-Boitsfort, Belgium. Tunnel furnace. 2,279,511; Apr. 14.
Graenacher, Charles, Riehen, and C. Rossi, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Manufacture of chlorides of carboxylic acids. 2,279,985; Apr. 14.
Graenser, Alfred H., assignor of one-half to D. E. Meyer, Detroit, Mich. Grinding disk. 2,279,673; Apr. 14.
Graham, Oliver B. (See White, C., and Graham.)
Granqvist, Carl-Erik. (See Alexandersson, H. V., and Granqvist.)
Grant, Jordan W., Portsmouth, Va., and H. M. Hunt, assignors to Akron Brass Manufacturing Company, Inc., Wooster, Ohio. Valve. 2,279,566; Apr. 14.
Grant, Samuel, assignor, by mesne assignments, to Products Development, Inc., Chicago, Ill. Chemical heating composition. 2,279,589; Apr. 14.
Gray, David E., assignor to Corning Glass Works, Corning, N. Y. Roofing unit and assembly thereof. 2,279,674; Apr. 14.
Green, Edwin F. (See Emery, F. C., and Green.)
Green, Clarence J., assignor to Norton Company, Worcester, Mass. Piston grinding machine. 2,279,902; Apr. 14.
Grey, Victor, assignor to Teletype Corporation, Chicago, Ill. Quick-change toolholder. 2,279,310; Apr. 14.
Griswold, Walter R., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 2,279,986; Apr. 14.
Gross, Fritz A., Watertown, assignor to Raytheon Manufacturing Company, Newton, Mass. Electron tube timing device. 2,279,311; Apr. 14.
Gross, Walter E. (See Jelinek, A. F., and Gross.)
Groten, Frank J., and J. H. Lower, Stamford, Conn., assignors to American Cynamid Company, New York, N. Y. Molding compound. 2,279,512; Apr. 14.
Guarnieri, Gaetano M., and G. Caletti, assignors to Fabbrica Italiana Magneti Marelli Societá Anonima, Milan, Italy. Variable coupling transformer. 2,280,001; Apr. 14.
Guerra, Salvador, assignor to L. K. Maulsby, San Antonio, Tex. Nut shelling machine. 2,279,987; Apr. 14.
Gundelfinger, William E., assignor to Knapp-Monarch Company, St. Louis, Mo. Corn popper. 2,279,750; Apr. 14.
Gutkin, Samuel S., Carnegie, Pa., assignor to Falk & Company. Producing modified urea-aldehyde resins. 2,279,312; Apr. 14.
Gutman, Alfred S., Lawrence, Mass. Protector mechanism for looms. 2,279,675; Apr. 14.
Haas, Erwin H. (See McDonald, Dan, assignor.)
Haeg, Joseph G. (See Schoumaker, Mitchell J., assignor.)
Hage, David, Hoorn, Netherlands. Valve. 2,279,513; Apr. 14.
Hagenbook, Loy D., assignor to Goodman Manufacturing Company, Chicago, Ill. Self loading device for shaker conveyers. 2,280,043; Apr. 14.
Haines, Francis W. (See Cherry, Charles A., assignor.)
Hall, Wayne C., Washington, D. C. Voltage regulator. 2,279,313; Apr. 14.
Ham, Garnet P., Old Greenwich, and R. B. Barnes, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Acetamidine anthranilate and its preparation. 2,279,514; Apr. 14.
Hamilton, George C., McComb, Miss. Plywood vessel. 2,279,820; Apr. 14.
Hammond, John H., Jr. (See Coolley, George A., assignor.)
Hanson, Christian, Jr., Rockaway Park, N. Y. Drinking tube. 2,279,396; Apr. 14.
Hardman, Albert F., Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Polyalkylene polyamines. 2,279,294; Apr. 14.
Hargreaves, Robert, and A. O. Roy, assignors to Whitin Machine Works, Whitinsville, Mass. Vertically positioning spinning or twister rings. 2,279,785; Apr. 14.

Harkness, Jack C., Alameda, Calif. Combined heel brake and accelerator pedal. 2,279,458; Apr. 14.
Harris, Ellery G., assignor to The Sherwin-Williams Company, Cleveland, Ohio. Sign and display device. 2,279,459; Apr. 14.
Harrison, Leslie R., Jr., assignor to Magnet Cove Barium Corporation, Malvern, Ark. Process for making improved oil well weighting materials. 2,280,034; Apr. 14.
Harrison, Leslie R. Jr., assignor to Magnet Cove Barium Corporation, Malvern, Ark. Making improved oil well weighting materials. 2,280,035; Apr. 14.
Hart, Merida L., Chickasha, Okla., assignor to Lane-Wells Company, Los Angeles, Calif. Hydrostatically operated setting tool. 2,279,676; Apr. 14.
Harter, Isaac, Akron, Ohio. Clothespin. 2,279,460; Apr. 14.
Hartline, Ralph E., Swissvale, assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Combustible gas indicator. 2,279,397; Apr. 14.
Hartough, Howard D. (See Reiff, O. M., and Hartough.)
Hathorn, Charles E., Kenmore, N. Y., assignor to Curtis-Wright Corporation. Adjustable mounting for rotatable members. 2,279,887; Apr. 14.
Hausherr, Herman, Bayville, N. J. Guard for highways. 2,279,942; Apr. 14.
Haworth, Mack E., Pittsburgh, Pa., assignor to Roberts and Shaefer Company, Chicago, Ill. Apparatus for separating particulate materials. 2,279,590; Apr. 14.
Hayden, Howard L., Minneapolis, Minn., assignor to General Mills, Inc. Puffing gun. 2,279,868; Apr. 14.
Hayes, Robert, Woodhaven, and J. Slater, Ozone Park, assignors of two-thirds to T. K. Raymond, Forest Hills, N. Y., and one-third to said Hayes. Corrugated clip for self aligning shingles. 2,279,943; Apr. 14.
Haynes, Worthie W., South Bend, Ind. Paper. 2,279,988; Apr. 14.
Hazeltine Corporation. (See Wheeler, Harold A., assignor.)
Hedberg, Carl A., Roselle Park, and J. O. McNally, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Secondary electron emissive electrode. 2,279,821; Apr. 14.
Heel Finisher, Inc. (See Straw, Clayton, assignor.)
Heinrich, Walter A., Richmond Heights, assignor to J. R. Kearney Corporation, St. Louis, Mo. Connector for electrical conductors. 2,279,677; Apr. 14.
Hem, Halvor W., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 2,279,706; Apr. 14.
Hem, Haylor O., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 2,279,678; Apr. 14.
Henderson, Lloyd F., and B. L. Maxwell, Reading, Mass., assignors to Lever Brothers Company. Detergent composition. 2,279,314; Apr. 14.
Hendry, Adolph R., Portland, Mich. Mat. 2,279,944; Apr. 14.
Hene, Emil, London, England. Treatment of mineral oil products. 2,279,461; Apr. 14.
Henry, Israel H., East Orange, and F. A. Korn, Westfield, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Intercepting trunk. 2,279,822; Apr. 14.
Hensley, Ernest E., Verona, Va. Rear view mirror. 2,279,751; Apr. 14.
Herr, Harvey E., and C. Fillinger, assignors to Herr Manufacturing Company, Inc., Buffalo, N. Y. Spinning ring and traveler therefor. 2,279,707; Apr. 14.
Herr Manufacturing Company. (See Herr, H. E., and Fillinger, assignors.)
Hertel, Richard K., Los Angeles, assignor to Byron Jackson Co., Huntington Park, Calif. Drilling hook. 2,279,315; Apr. 14.
Herzberger, Maximilian J., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic objective. 2,279,372; Apr. 14.
Herzog, Carl, Belleville, N. J., assignor to Radio Corporation of America. Welding machine. 2,279,316; Apr. 14.
Hewitt, Ellis E., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake control apparatus. 2,279,398; Apr. 14.
Heyer, Frederic K., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Night latch. 2,279,591; Apr. 14.
Hilger, John, Milwaukee, Wis., and J. F. Macholl, Los Angeles, Calif., assignors, by mesne assignments, to Owens-Corning Fiber-glas Corporation, Toledo, Ohio. Battery making method. 2,279,317; Apr. 14.
Hilger, John, Milwaukee, Wis., and J. F. Macholl, Los Angeles, Calif., assignors, by mesne assignments, to Owens-Corning Fiber-glas Corporation, Toledo, Ohio. Battery. 2,279,318; Apr. 14.
Hill, C. V., & Company. (See Hoffman, Cyrus F., assignor.)
Himes, Ross A. (See Sidebotham, M. H., and Himes.)
Hines, Earle G., West Milford, N. J., assignor to General Theatres Equipment Corporation, New York, N. Y. Electric shaver. 2,279,373; Apr. 14.
Hirschberg, Samuel E., Chicago, Ill. Newspaper wrapper. 2,279,989; Apr. 14.
Hirschman, W. F., Co. (See Hirschman, William F., assignor.)
Hirschman, William F., assignor to W. F. Hirschman Co., Inc., Buffalo, N. Y. Ventilator. 2,279,620; Apr. 14.
Hobbs, Walter V., assignor to Ranco Incorporated, Columbus, Ohio. Control system. 2,279,888; Apr. 14.
Hoffert, Roy G., Racine, Wis. Multiple head stitcher and punch. 2,279,679; Apr. 14.
Hoffman, Cyrus, assignor to C. V. Hill & Company, Inc., Trenton, N. J. Sectional refrigerated display case. 2,279,945; Apr. 14.
Hogberg, Carl G., and G. E. Steudel, Chicago, Ill. Blast furnace process. 2,279,399; Apr. 14.
Holland, Chester O., R. T. Vrokaw, and E. F. Lundeen, assignors to Barnes Drill Company, Rockford, Ill. Combined drilling and tapping machine. 2,279,462; Apr. 14.
Hollywood Comb Curler Inc. (See Wallace, Frank C., assignor.)
Holm, Charles L., assignor to Ford Motor Company, Dearborn, Mich. Motor vehicle turn indicator. 2,279,400; Apr. 14.
Holmboe, Harold. (See Chase, S., and Holmboe.)
Holman, Herbert E. (See Browne, C. O., and Holman.)
Holman, Herbert E., assignor to Electric & Musical Industries Limited, Hayes, England. Producing thin strips of material on a supporting surface. 2,279,567; Apr. 14.
Holt, Edwin M., Cooleemee, N. C., assignor to Whitin Machine Works, Whitinsville, Mass. Stop motion for drawing frames. 2,279,786; Apr. 14.
Honaman, Richard K., Glen Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric wave circuit. 2,279,319; Apr. 14.
Hopkins, Robert K., assignor to The M. W. Kellogg Company, New York, N. Y. Metal producing apparatus. 2,279,990; Apr. 14.
Hopkins, Roy S., assignor to Eastman Kodak Company, Rochester, N. Y. Film handling apparatus. 2,279,463; Apr. 14.
Horn, Harry J., assignor to Motor Wheel Corporation, Lansing, Mich. Journal box lid. 2,279,823; Apr. 14.
Horsfall, James. (See Secretan, K., and Horsfall.)
Hosbein, Louis H., Glencoe, assignor to M. H. Detrich Company, Chicago, Ill. Furnace wall construction. 2,279,515; Apr. 14.
Hotchkiss, John K., Canaan, assignor of one-half to E. W. Tilley, Vevay, Ind. Jar closure. 2,279,991; Apr. 14.
Houston, Glenn R., Lodi, Calif. Combination bulldozer and ripper. 2,279,869; Apr. 14.
Howell, Albert S., assignor to The Bell & Howell Company, Chicago, Ill. Ventilating light trap. 2,279,920; Apr. 14.
Howie, Kenneth, assignor to Wildman Mfg. Co., Norristown, Pa. Welt hook for knitting machines. 2,279,736; Apr. 14.
Hudson, Charles B. (See Voth, W. P., and Hudson.)
Hudson, Herbert W., Columbus, Ohio. Tool for applying granular material. 2,279,621; Apr. 14.
Huggins, Leroy G., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Air conditioning apparatus. 2,279,787; Apr. 14.
Humphner, Ferdinand W., Oak Park, assignor to Mid-States Gummed Paper Co., Chicago, Ill. Masking metal sheets and the like. 2,279,680; Apr. 14.
Humphrey, Walter E., Jeannette, Pa. Machine for covering balls. 2,279,921; Apr. 14.
Hunt, Henry M. (See Grant, J. W., and Hunt.)
Hunter, William A. (See Foreeman, S. T., and Hunter.)
Hurd, Frank P., Laurel, Md. Mail box or other support. 2,279,622; Apr. 14.
Huston, Tom, Miami, Fla. Combined liquid dispensing and applying device. 2,279,320; Apr. 14.
Hutchison, Miller R., Jr., assignor to Eastman Kodak Company, Rochester, N. Y. Screw stick with stop. 2,279,401; Apr. 14.
Hygrade Sylvania Corporation. (See Atchley, Dana W., Jr., assignor.)
I-T-E Circuit Breaker Company of Pennsylvania. (See Scott, William M., Jr., assignor.)
Ilbery, Josiah E., Neutral Bay, New South Wales, Australia. Nut locking device. 2,279,681; Apr. 14.
Indiana Steel & Wire Company. (See Wallis, Porter B., assignor.)
Ingersoll-Rand Company. (See Terry, Edward F., assignor.)
International Smelting and Refining Company. (See Christensen, Arthur L., assignor.)
International Standard Electric Corporation. (See McLarn, Ernest S., assignor.)
International Standard Electric Corporation. (See Scott, T. R., and New, assignors.)
Ireland, Eric B., Liverpool, and E. W. Jones, Nottingham, England, assignors to Associated Telephone & Telegraph Company, Chicago, Ill. Electrical signaling system. 2,279,568; Apr. 14.
Jackson, Alexis, Rochester, assignor to V. S. Makaroff, New York, N. Y. Ramp for automobiles. 2,279,464; Apr. 14.
Jackson, Alexis, Rochester, assignor to V. S. Makaroff, New York, N. Y. Lifting device. 2,279,465; Apr. 14.
Jackson, Byron. (See Hertel, Richard K., assignor.)
Jackson, Clifford C., Highland Park, and I. E. Johnson, Huntington Woods, assignors to Chrysler Corporation, Highland Park, Mich. Hinge construction. 2,279,992; Apr. 14.

Jackson, Jesse A., Hilton Village, Va. Shearing shaver. 2,279,682; Apr. 14.

Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Lock switch. 2,279,623; Apr. 14.

Jacobson, Ralph A., Landenberg, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymeric materials. 2,279,752; Apr. 14.

Jakob, Leslie V., and F. Goldfisher, assignors to E. A. Petersen, Chicago, Ill. Fluid applicator. 2,279,708; Apr. 14.

Janeway, Robert N., Detroit, Mich., assignor, by mesne assignments, to Railroad Rolling Stock Patents Corporation. Vehicle draft means. 2,279,993; Apr. 14.

Janssen, Albrecht J., Lombard, Ill. Distance and height meter. 2,279,321; Apr. 14.

Japolsky, Nicholas, Highgate, London, England. Alternating current electric motor. 2,279,402; Apr. 14.

Jebens, Walter J., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Mold inhibitive cellulosic structure. 2,279,788; Apr. 14.

Jelinek, Alfred F., and W. E. Gross, assignors to The Cleveland Automatic Machine Company Cleveland, Ohio. Heat exchanger for machine tools. 2,279,569; Apr. 14.

Jenkins, Alexander. (See Thompson, L. E., and Jenkins.)

Jennings, Oliver S., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit breaker protective system. 2,279,737; Apr. 14.

Jentzer, Henry, Chicago, Ill. Toilet bowl ventilator. 2,279,789; Apr. 14.

John, Ulrich, assignor to Electroacustic Gesellschaft mit beschrinkter Haftung, Kiel, Germany. Magneto-strictive oscillator. 2,279,322; Apr. 14.

Johnske, Fritz, and J. Rebmann, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Radio direction finder. 2,279,466; Apr. 14.

Johnson, Charles D., assignor to Johnson Steel and Wire Company, Inc., Worcester, Mass. Furnace for heat treating wire. 2,279,684; Apr. 14.

Johnson, Charles R., Glen Mills, Pa., and E. H. Baughman, assignors to E. I. due Pont de Nemours & Company, Wilmington, Del. Manufacture and packeting of detonators. 2,279,323; Apr. 14.

Johnson, David V., et al. (See Johnson, Roy W. and W. W., assignors.)

Johnson, Elmer L., Lakewood, N. Y. Bench. 2,279,946; Apr. 14.

Johnson, Frank E., Malden, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Nut member. 2,279,903; Apr. 14.

Johnson, Fred W., et al. (See Johnson, Roy W. and W. W., assignors.)

Johnson, Ira E. (See Jackson, C. C., and Johnson.)

Johnson, Roy W. and W. W., assignors of one-fourth to D. V. Johnson, Memphis, Tenn., and one-fourth to F. W. Johnson, Jackson, Miss. Ventilation of water closet bowls and seats. 2,279,870; Apr. 14.

Johnson Steel and Wire Company. (See Johnson, Charles D., assignor.)

Jones, Albert, Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for applying material to parts. 2,279,994; Apr. 14.

Jones, Alfred D., Pemberton, N. J. Handle fastening device. 2,279,995; Apr. 14.

Jones, Eric W. (See Ireland, E. B., and Jones.)

Jones, John G., and M. P. Davis, assignors to Eastman Kodak Company, Rochester, N. Y. Leader bar aligning control. 2,279,467; Apr. 14.

Judell, Julius S., and J. P. Goodenough, Shorewood, assignors to Milwaukee Flush Valve Company, Milwaukee, Wis. Sink strainer. 2,279,683; Apr. 14.

Julien, Joseph, alias Eugène Pallen, Le Zoute, Belgium. Spade or shovel. 2,279,324; Apr. 14.

Jung, Ernst, Berlin-Friedenau, assignor to H. Lublinski, Berlin-Wilmersdorf, Germany. Washing installation. 2,279,374; Apr. 14.

Kaldizar, Lewis, United States Army, Aberdeen Proving Ground, Md. Gun rack. 2,279,325; Apr. 14.

Kamppi, Jacob, Astoria, Oreg. Grabhooks. 2,279,570; Apr. 14.

Kane, Garold A., assignor to Northern Pump Company, Minneapolis, Minn. Control device for hydraulic lines. 2,279,571; Apr. 14.

Kann, Eduard, New York, N. Y. Swinging door. 2,279,572; Apr. 14.

Kantor, Edward, New York, N. Y. Hair curler. 2,279,996; Apr. 14.

Kantor, Edward, New York, N. Y. Hair waving device. 2,279,997; Apr. 14.

Kaplan, Nathan, Atlanta, Ga. Fish scraper. 2,279,685; Apr. 14.

Karnatz, Frank A. (See Wald, M. D., and Karnatz.)

Kaszab, Nicholas T., New York, N. Y. Stereoscopic pictures with aplanat focusing elements. 2,279,825; Apr. 14.

Kater, Joseph A., Teaneck, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical condenser. 2,279,826; Apr. 14.

Kats, Israel J., New York, N. Y. Buckle. 2,279,738; Apr. 14.

Kaufman, Hiram J., Detroit, Mich. Apparatus for dehydrating air. 2,279,326; Apr. 14.

Kearney, James R., Corporation. (See Heinrich, Walter A., assignor.)

Keefe, Lincoln M., Springfield, Mass. Connector device. 2,279,824; Apr. 14.

Keen, Everett M., Vineland, N. J. Grading machine. 2,279,947; Apr. 14.

Kehr, Abraham B., Philadelphia, Pa., assignor to Newspaper Service Corporation, Houston, Tex. Container. 2,279,327; Apr. 14.

Keith, Thomas L. (See Burns, J. B., and Keith.)

Kellogg, M. W., Company, The. (See Hopkins, Robert K., assignor.)

Kellogg Switchboard and Supply Company. (See Saunders, Norman H., assignor.)

Kent, Walter E., Decatur, Ill. Air volume control. 2,279,948; Apr. 14.

Kenyon, William O. (See Nadeau, G. F., Simmons, and Kenyon.)

Keratene Company, The. (See Weber, Frederick C., assignor.)

Kerlin, William L., Los Angeles, assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. Method and apparatus for cleaning and painting. 2,279,686; Apr. 14.

Kerr, Charles G., San Anselmo, Calif. Toothbrush. 2,279,687; Apr. 14.

Keystone View Company. (See Mossman, Donald P., assignor.)

Killefer Manufacturing Corporation. (See Thomas, T. M., Russell, and Robb, assignors.)

Kindseth, Harold V., assignor to Bemis Bro. Bag Co., Minneapolis, Minn. Bag closing and sealing machine. 2,279,328; Apr. 14.

King, Jesse E., Laurel, Miss. Ladder. 2,279,329; Apr. 14.

Kingdom of the Netherlands, Post Office Administration. (See van Duuren, Hendrik C. A., assignor.)

Kirschenbauer, Hans G. (See Dreger, E. E., Ross, and Kirschenbauer.)

Kite, Phillip L., and R. E. La Mondia, assignors of one-third to E. W. Will, Syracuse, N. Y. Ignition system for internal combustion engine. 2,279,709; Apr. 14.

Knapp-Monarch Company. (See Braun, Gwilym S., assignor.)

Knapp-Monarch Company. (See Gundelfinger, William E., assignor.)

Knapp-Monarch Company. (See Knopp, Rudolph, assignor.)

Knopp, Rudolph, assignor to Knapp-Monarch Company, St. Louis, Mo. Switch. 2,279,753; Apr. 14.

Koelling, Edward A., St. Louis, Mo. Binder locking mechanism. 2,279,503; Apr. 14.

Kolbe, Joachim, Detroit, Mich. Motor vehicle. 2,280,044; Apr. 14.

Korn, Franklin A. (See Henry, I. H., and Korn.)

Kottmann, August, assignor to Robert Bosch Gesellschaft mit Beschränkter Haftung, Stuttgart, Germany. Fuel supply pump for internal combustion engines. 2,279,403; Apr. 14.

Kramer, George W., deceased, late of Kewanee, Ill., by D. Pervan, Kewanee, Ill., executrix. Concrete block machine. 2,279,889; Apr. 14.

Kraner, Warren A., San Francisco, Calif. Cleaning device. 2,279,922; Apr. 14.

Krauch, Emil. (See Wolff, H., Krauch, and Wilke.)

Kroll, George E., Long Beach, Calif. Date indicator. 2,279,790; Apr. 14.

Krumbhaar, William, New York, N. Y. Surface coatings. 2,279,754; Apr. 14.

Kuhn, Frank. (See Fletcher, James, assignor.)

Kury, Philip J. (See Brewer, Charles A., assignor.)

Kylin, Henrik O. (See Kylin, Oskar and H. O.)

Kylin, Oskar and H. O., assignors to Bardons and Oliver, Inc., Cleveland, Ohio. Sliding gear transmission. 2,279,710; Apr. 14.

Lahousse, Joseph E. G., and A. M. L. Casati, Lyons, and J. L. Gonnard, Villeur-Banne, assignors to Societe des Usines Chimiques Rhone-Poulenc, Paris, France. Product of antierythemic action. 2,279,468; Apr. 14.

Laitman, Jacob, Brooklyn, N. Y. Slide closure. 2,279,998; Apr. 14.

Lakatos, Emory, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Relay. 2,279,404; Apr. 14.

Lakso, Eino E. (See Vogt, Clarence W., assignor.)

Lamb, Charles G., Elmhurst, assignor to Detroit Air Filter Co., Chicago, Ill. Fire screen. 2,279,791; Apr. 14.

La Mondia, Robert E. (See Kite, P. L., and La Mondia.)

Lancaster, William, Alexandria, Va. Vibration damping tie wire. 2,279,625; Apr. 14.

Lane-Wells Company. (See Hart, Merida L., assignor.)

Lang, Edd C., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Conveyer system. 2,279,573; Apr. 14.

Langdon, Jesse D., Los Angeles, Calif. Valve seating tool and method. 2,279,890; Apr. 14.

Langguth, Wilhelm. (See Blass, J., and Langguth.)

Langmaid, Charles T., assignor to Fabristeel Products, Inc., Detroit, Mich. Clinchnut and method of making. 2,279,574; Apr. 14.

Lanham, Albert W. (See Busse, William J., Wallace and Lanham.)

Lapidovsky, Piotr F., Wilmington, Del. Speedboat. 2,279,827; Apr. 14.

La Place, Desmond R., Beaver Falls, assignor to Bocji Corporation, Pittsburgh, Pa. Stapling hammer. 2,279,624; Apr. 14.

Larsen, Robert G., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Corrosion preventive. 2,279,688; Apr. 14.

Larson, Kenneth R., Desplaines, assignor, by direct and mesne assignments, to Automotive Maintenance Machinery Co., North Chicago, Ill. Torque wrench. 2,279,792; Apr. 14.

Lasnik, Edward. (See MacPherson, J. A., and Lasnik.)

Laudermilk, Charles M. (See Stewart, A. L., and Laudermilk.)

Laughlin, Carl D., Drexel Hill, assignor to Attapulgus Clay Company, Philadelphia, Pa. Bedding for poultry and animals. 2,279,405; Apr. 14.

Law, George H., South Charleston, and H. C. Chitwood, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Process of making olefine oxides. 2,279,469; Apr. 14.

Law, George H., South Charleston, and H. C. Chitwood, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Process of making olefine oxides. 2,279,470; Apr. 14.

Lawson, Herbert E., assignor to Burgess Battery Company, Chicago, Ill. Dry cell. 2,279,575; Apr. 14.

Laycock, Geoffrey C., Norwich, England. Package. 2,279,471; Apr. 14.

Leach, Edward B., Newport, England. Valve. 2,279,472; Apr. 14.

Leeds & Northrup Company. (See Ross, Raymond W., assignor.)

Leermakers, John A., and S. S. Fierke, assignors to Eastman Kodak Company, Rochester, N. Y. Color process using cellulose ester emulsions. 2,279,406; Apr. 14.

Lehew, George V., Belle Vernon, Pa. Carburetor. 2,279,626; Apr. 14.

Lemen, William W., and A. P. Offutt, Glendale, Calif. Corner blocking plate. 2,279,755; Apr. 14.

Lempert, Joseph, Montclair, and N. H. Stewart, Caldwell, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Discharge device and making. 2,279,831; Apr. 14.

Leppla, Rudolph, Davenport, assignor to Zimmerman Steel Company, Bettendorf, Iowa. Bolster centering device. 2,279,793; Apr. 14.

Lerner, Earl A., Chicago Heights, Ill., assignor to The American Brake Shoe and Foundry Company, New York, N. Y. Multi-part carrier blade for endless chain carriers and the like. 2,279,689; Apr. 14.

Le Tourneau, R. G., Inc. (See Le Tourneau, Robert G., assignor.)

Le Tourneau, Robert G., Peoria, Ill., assignor to R. G Le Tourneau, Inc. Mobile elevator. 2,279,832; Apr. 14.

Lever Brothers Company. (See Henderson, L. F., and Maxwell, assignors.)

Leverone, Frank J., Malden, Mass. Saw attachment. 2,279,576; Apr. 14.

Lewis, Boyd R. (See Ford, G. F., Lewis, and Pittman.)

Liberman, Leon J., Philadelphia, assignor to Alan Wood Steel Company, Conshohocken, Pa. Running board for cars. 2,279,756; Apr. 14.

Liberthson, Leo, New York, N. Y., assignor to L. Sonneborn Sons, Inc. Soldering flux. 2,279,828; Apr. 14.

Limpp, Richard W., King City, Mo. Amalgamator. 2,279,473; Apr. 14.

Lincoln, John C. (See Neeley, William H., assignor.)

Lincoln Packing Co. (See Gordon, Melvin C., assignor.)

Lindell, Sigurd L., and A. Van Ryan, assignors to Schweitzer & Conrad, Inc., Chicago, Ill. Fuse construction. 2,279,627; Apr. 14.

Lindsey, Z. T., San Saba, Tex. Combination motor generator. 2,279,690; Apr. 14.

Link-Belt Company. (See Sinden, Alfred D., assignor.)

Llewellyn, Frederick B., Verona, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Diode oscillator. 2,279,872; Apr. 14.

Logan, John W., Jr., Forest Hills, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake control device. 2,279,433; Apr. 14.

Long, Richard G., and W. D. French, assignors, by mesne assignments, to The Venetian Blind Laundry Manufacturing and Sales Corporation, Denver, Colo. Means for washing Venetian blinds. 2,279,691; Apr. 14.

Lowe, Joe, Corporation. (See Thomas, Norman M., assignor.)

Lower, James. (See Groten, F. J., and Lower.)

Lublinski, Hugo. (See Jung, Ernst, assignor.)

Lucarelle, Joseph M. (See Norton, L. D., and Lucarelle.)

Lundeen, Elmer F. (See Holland, C. O., Brokaw and Lundeen.)

Lurie, Eli M., Laurelton, Long Island, N. Y. Combination multichannel radio receiving and signaling system. 2,279,739; Apr. 14.

Luten, Daniel B., Jr., and A. De Benedictis, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Desulphurization of alkyl phenols. 2,279,711; Apr. 14.

Lyon, George A., Allenhurst, N. J. Ornamental trim ring for wheels. 2,279,330; Apr. 14.

Lyon, George A., Allenhurst, N. J. Ornamental member for wheel. 2,279,331; Apr. 14.

Lyon, George A., Allenhurst, N. J. Ornamental trim ring. 2,279,332; Apr. 14.

Lyon, George A., Allenhurst, N. J. Ornamental wheel member and assembly. 2,279,333; Apr. 14.

Lyon, George A., Allenhurst, N. J. Wheel structure. 2,279,334; Apr. 14.

Lyon, Swayze A., Columbus, Ohio. Device for raising sunken submarines. 2,279,829; Apr. 14.

Machado, Anthony B., Oakland, Calif., assignor to Friden Calculating Machine Co., Inc. Calculating machine. 2,279,474; Apr. 14.

Machinist, Harold, Long Island City, N. Y., assignor to Dudley Lock Corporation, Chicago, Ill. Lock. 2,279,592; Apr. 14.

Macholl, James F. (See Hilger, J., and Macholl.)

MacPherson, John A., and E. Lasnik, Erie, Colo. Connector for shaker conveyers. 2,279,923; Apr. 14.

Madan, Edward K., Maplewood, N. J. Knife. 2,279,833; Apr. 14.

Magnet Cove Barium Corporation. (See Harrison, Leslie R., Jr., assignor.)

Magnuson, Francis W., assignor to Worcester Tool & Stamping Co. Inc., Worcester, Mass. Fastening device for suitcases. 2,279,757; Apr. 14.

Makaroff, Vadim S. (See Jackson, Alexis, assignor.)

Manning, Richard H., Newark, N. J. Device for computing the contents of receptacles. 2,279,375; Apr. 14.

Marbon Corporation. (See Calvert, William C., assignor.)

Marowsky, Max, Berlin, Germany. Preheater for lighting and heating apparatus. 2,279,924; Apr. 14.

Marriott, Sherman G., Portland, Oreg. Bun slicer. 2,279,376; Apr. 14.

Marsack Patents Corporation. (See Marsack, Sam, assignor.)

Marsack, Sam, assignor to Marsack Patents Corporation, Milwaukee, Wis. Apparatus for sewing mattress pads and quilts. 2,279,628; Apr. 14.

Marten-Gwilliam, Vivian C. E., Barton-on-Sea, assignor to H. Scott-Paine, Southhampton, England. Breech mechanism for ordnance. 2,279,692; Apr. 14.

Martin, Horace G., Brooklyn, N. Y. Incinerator in combination with latrines or the like. 2,279,577; Apr. 14

Martin, Horace G., Brooklyn, N. Y. Latrine. 2,279,578; Apr. 14.

Martin, Otis C., Los Angeles, Calif. Valve. 2,279,693; Apr. 14.

Martinson, Martin, assignor to J. H. Piper, Princeton, Ill. Stretcher. 2,279,694; Apr. 14.

Marx, Louis, & Company. (See Carver, Richard N., assignor.)

Maselter, John A., Chicago, Ill. Heel. 2,279,891; Apr. 14.

Matteson, George A., Jr., Saunderstown, R. I. Pump, compressor, or the like. 2,279,740; Apr. 14.

Maulsby, Leon K. (See Guerra, Salvador, assignor.)

Maxwell, Bernard L. (See Henderson, Lloyd F., and Maxwell.)

McClanahan, Thomas G., Seattle, Wash. Liquid cooling and display device. 2,279,629; Apr. 14.

McClure, Glenn T., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Locomotive brake equipment. 2,279,303; Apr. 14.

McCombs, George B., assignor of one-half to R. L. Fuller, Magnolia, Miss. Yarn marker attachment for textile machines. 2,279,925; Apr. 14.

McCrum, Arthur C., Kansas City, Mo. Making labels. 2,279,949; Apr. 14.

McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electric and fluid pressure brake control. 2,279,407; Apr. 14.

McDermott, William J., Port Robinson, Ontario, Canada. Building structure. 2,279,873; Apr. 14.

McDonald, Dan, Santa Monica, Calif., assignor to E. H. Haas, as trustee. Separation of constituents of animal and vegetable oils and residue from refining thereof. 2,279,408; Apr. 14.

McDonald, John C., assignor to The Dow Chemical Company, Midland, Mich. Magnesium base alloy. 2,279,712; Apr. 14.

McElhinney, John H., assignor to Wheeling Steel Corporation, Wheeling, W. Va. Metal rolling. 2,279,579; Apr. 14.

McGee, Howard H., New York, N. Y. Valve. 2,279,834; Apr. 14.

McKane, Fred J. (See Morley, Joseph, assignor.)

McKay, Clarence A., Tulsa, Okla. Automatic knockoff device for oil well pumping apparatus. 2,279,950; Apr. 14.

McKechnie, Ian C., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Power transmission. 2,279,999; Apr. 14.

McLarn, Ernest S., Manhasset, assignor to International Standard Electric Corporation, New York, N. Y. Telephone subset. 2,279,713; Apr. 14.

McMahon, George F., assignor to Schweitzer & Conrad, Inc., Chicago, Ill. Making insulating housings. 2,279,630; Apr. 14.

McMahon, George F., assignor to Schweitzer & Conrad, Inc., Chicago, Ill. Circuit interrupting apparatus. 2,279,631; Apr. 14.

McMullin, Joseph P., Concordville, Pa. Changeable indicator. 2,279,836; Apr. 14.

McNally, James G. (See Dickey, J. B., and McNally.)
McNally, James G., and J. B. Dickey, assignors to Eastman Kodak Company, Rochester, N. Y. Yarn treating process and composition therefor. 2,279,377; Apr. 14.
McNally, James O. (See Hedberg, C. A., and McNally.)
McRae, James W., Neptune, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,279,835; Apr. 14.
Meakin, Edgar T., San Francisco, Calif. Apparatus for forming pellets. 2,279,632; Apr. 14.
Meeker, Daniel M. (See Smith, E. S., and Meeker.)
Melhorn, Carl E. (See Smith, E. L., and Melhorn.)
Mergenthaler Linotype Company. (See Brandenburg, H., and Bienert, assignors.)
Merickie, Arnold J., West Allis, assignor of one-third to H. J. Seilberg and one-third to R. L. Swetzer, Milwaukee, Wis. Variable pitch propeller. 2,279,633; Apr. 14.
Merrick, Herbert L., deceased, by K. S. Merrick, executrix, assignor to Merrick Scale Mfg. Company, Passaic, N. J. Material feeding means. 2,279,475; Apr. 14.
Merrick, Katherine S., executrix. (See Merrick, Herbert L.)
Merrick Scale Mfg. Company. (See Merrick, Herbert L.)
Merrill Company, The. (See Mills, Louis D., assignor.)
Metzler, Charles, Cincinnati, Ohio. Sharpener for safety razor blades. 2,279,634; Apr. 14.
Meyer, Delmar E. (See Graenser, Alfred H., assignor.)
Meyerhof, Wilhelm, and M. Trabulsi, assignors to the firm Asclepio-Mira Limitada, Sao Paulo, Brazil. Cystoscope. 2,279,714; Apr. 14.
Meyers Company, The. (See Meyers, George T., assignor.)
Meyers, George T., assignor to The Meyers Company, Parkersburg, W. Va. Method of feeding molten glass. 2,280,036; Apr. 14.
Mid-States Gummed Paper Co. (See Humphner, Ferdinand W., assignor.)
Midwest Tool & Manufacturing Company. (See Eppler, Christian L., assignor.)
Mihalyi, Joseph, assignor to Eastman Kodak Company, Rochester, N. Y. Lens mount. 2,279,476; Apr. 14.
Mihalyi, Joseph, assignor to Eastman Kodak Company, Rochester, N. Y. Photoflash synchronizing device. 2,279,477; Apr. 14.
Millar, Preston S., Scarsdale, and Peter Garms, Huntington, N. Y. Racing game. 2,280,000; Apr. 14.
Miller, Edward W., assignor to The Fellows Gear Shaper Company, Springfield, Vt. Gear finishing machine. 2,280,045; Apr. 14.
Mills, Louis D., Palo Alto, assignor to The Merrill Company, San Francisco, Calif. Reagent feeder. 2,279,758; Apr. 14.
Milster, Arthur N., Ferguson, and J. C. Cox, assignors to Wagner Electric Corporation, St. Louis, Mo. Brake testing apparatus. 2,279,409; Apr. 14.
Milwaukee Flush Valve Company. (See Judell, Julius S., and Goodenough, assignors.)
Miner, Robert V., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for treating articles coated with a concentrated aqueous solution of gold cyanide. 2,279,580; Apr. 14.
Miner, W. H., Inc. (See Fuchs, Henry, assignor.)
Mine Safety Appliance Company. (See Hartline, Ralph E., assignor.)
Moncrieff, Robert W., and C. W. Sammons, Spondon, near Derby, England, assignors to Celanese Corporation of America. Production of artificial yarns, foils, and similar materials. 2,279,478; Apr. 14.
Moncrieff, Robert W., and C. W. Sammons, Spondon, near Derby, England, assignors to Celanese Corporation of America. Production of artificial yarns, foils, and similar materials. 2,279,479; Apr. 14.
Moody, John L. (See Friden, C. M., and Moody.)
Moody, John L., Oakland, Calif., assignor to Friden Calculating Machine Co., Inc. Calculating machine switch. 2,279,480; Apr. 14.
Moody, John L., Oakland, Calif., assignor to Friden Calculating Machine Co., Inc. Calculating machine. 2,279,481; Apr. 14.
Moore, James H., Lawrence, Mass. Loom inspection device. 2,279,759; Apr. 14.
Morein, David, New York, N. Y. Athletic shoe. 2,279,951; Apr. 14.
Morgenstern, Ronald V., Irvington, and H. P. Gilbert, Hackensack, N. J., assignors to The Western Union Telegraph Company, New York, N. Y. Switching selector for printing telegraph systems. 2,279,335; Apr. 14.
Morley, Joseph, assignor of one-eighth to F. J. McKane, Los Angeles, Calif. Luminous vapor lamp. 2,279,635; Apr. 14.
Moss, Harry, assignor to Whitin Machine Works, Whitinsville, Mass. Tape condenser. 2,279,741; Apr. 14.
Mossman, Donald P., assignor to Keystone View Company, Meadville, Pa. Stereoscope. 2,279,904; Apr. 14.
Motor Wheel Corporation. (See Horn, Harry J., assignor.)
Mueller Co. (See Mueller, F. H., and Bowan, assignors.)
Mueller, Frank H., and W. J. Bowan, assignors to Mueller Co., Decatur, Ill. Clamping belt for connecting tapping machines to mains. 2,279,636; Apr. 14.
Muller, George W., Miami, Fla. Spring head rail spike. 2,279,482; Apr. 14.
Munshower, Clarence F., assignor, by mesne assignments, to Colbar, Inc., Columbus, Ohio. Dry storage bottle cooler. 2,279,483; Apr. 14.
Munshower, Clarence F., assignor to Colbar, Inc., Columbus, Ohio. Refrigerated display case. 2,279,484; Apr. 14.
Murphy, Howard J., Greenwood, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Switch. 2,279,905; Apr. 14.
Murray, John J., Arlington, Mass. Metal plating bath and plating. 2,279,830; Apr. 14.
Murrie, Charles R. (See Fee, E. M., and Murrie.)
Musher, Albert, New York, N. Y., assignor, by mesne assignments, to Food Manufacturing Corporation, Chicago, Ill. Oil production. 2,280,046; Apr. 14.
Myers, Robert J. (See Cheetham, H. C., and Myers.)
Myers, Walter, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Securing means. 2,279,593; Apr. 14.
Nadeau, Gale F., N. L. Simmons, and W. O. Kenyon, assignors to Eastman Kodak Company, Rochester, N. Y. Antistatic layers. 2,279,410; Apr. 14.
Nagel, August, Stuttgart-Degerloch, Germany, assignor to Eastman Kodak Company, Rochester, N. Y. Indicating device for roll film cameras. 2,279,715; Apr. 14.
Nampa, Sulo M., Detroit, Mich., assignor to Automatic Shifters, Inc., Richmond, Va. Gear shifting mechanism. 2,280,047; Apr. 14.
National Cash Register Company, The. (See Breitling E., Topel, and Philipp, assignors.)
National Cash Register Company, The. (See Werner, Frank R., assignor.)
Neely, William H., Cleveland, Ohio, assignor, by direct and mesne assignments, to J. C. Lincoln, Scottsdale, Ariz. Wire spring for cushioned backs of upholstered furniture. 2,279,336; Apr. 14.
Nelson, George S., Revere, assignor to The Forbes Lithograph Manufacturing Company, Boston, Mass. Attachable advertising device. 2,280,037; Apr. 14.
Neptune Meter Company. (See Bugg. Kenly C., assignor.)
Neracher, Carl A., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Fluid drive. 2,280,002; Apr. 14.
Neuschwanger, Elmer G. and H. C. Neuschwanger, Whiting, Kans. Crochet hook. 2,279,926; Apr. 14.
Neuschwanger, Henrietta C. (See Neuschwanger, E. G., and H. C.)
Neva-Clog Products, Inc. (See Vogel, Max, assignor.)
New, Archibald A. (See Scott, T. R., and New.)
New Jersey Machine Corporation. (See von Hofe, George W., assignor.)
Newlin, Clarence V., Detroit, Mich. Conveying device. 2,279,837; Apr. 14.
Newspaper Service Corporation. (Se Kehr, Abraham B., assignor.)
Newton, Frank H., Los Angeles, Calif. Magnetic vibrating therapeutic appliance. 2,279,906; Apr. 14.
Newton, Stanley H., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Incandescent electric lamp and manufacture. 2,279,871; Apr. 14.
Nicks, H. S., executor, et al. (See Paxton, G. C., Criger and Paxton, (W. H.).)
Nicodemus, Otto. (See Schmidt, W. Pohl, and Nicodemus.)
Niedercorn, Joseph G. (See Ayres, G. B., and Niedercorn.)
Nieman, Henry W., Bethlehem, Pa., assignor to Bethlehem Steel Company. Rail treatment. 2,279,716; Apr. 14.
Niemann, Carl, Erlangen, assignor to the firm Siemens-Reiniger-Werke Aktiengesellschaft, Berlin, Germany. Electric coil. 2,279,581; Apr. 14.
Niemann, Frederick A., assignor to Felt & Tarrant Mfg. Co., Chicago, Ill. Numeral wheel. 2,279,337; Apr. 14.
Nissel, George, London, England. Fitting of contact lenses. 2,279,795; Apr. 14.
Northern Pump Company. (See Kane, Garold A., assignor.)
Norton Company, The. (See Green, Clarence J., assignor.)
Norton, Leland D., and J. M. Lucarelle, Bridgeport, Conn., assignors to Dictaphone Corporation, New York, N. Y. Speaking tube handle for phonographs. 2,279,796; Apr. 14.
Noth, Carl F., Chicago, Ill. Container adapter for spray guns. 2,279,927; Apr. 14.
Nydegger, Roland R. (See English, M. H., and Nydegger.)
Oak Mfg. Co. (See Dressel, Henry M., assignor.)
Obergfell, Herbert F., River Forest, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Combined mounting and signal device for hand telephones. 2,279,485; Apr. 14.
O'Brien, Joseph F., Jersey City, N. J., assignor to J. B. Pierce Foundation, New York, N. Y. Electrical convenience outlet. 2,279,516; Apr. 14.
Oestricher, Bernard, Long Beach, N. Y. Coat and shirt display form. 2,279,517; Apr. 14.
Offutt, Abner P. (See Lemen, W. W., and Offutt.)
Ohio Brass Company, The. (See Brandt, Thomas F., assignor.)

Ohio Ferro-Alloys Corporation. (See Vignos, James C., assignor.)
Oil Well Manufacturing Corporation. (See White, C., and Graham, assignors.)
Oldham, Samuel R., Elizabeth, N. J., assignor to Oxweld Acetylene Company. Shape cutting machine. 2,279,338; Apr. 14.
Oliver, Edwin L., Piedmont, assignor to Oliver United Filters Incorporated, Oakland, Calif. Filter. 2,279,838; Apr. 14.
Oliver, Kenneth O., Colebrook, N. H. Handle for containers. 2,279,717; Apr. 14.
Oliver United Filters Incorporated. (See Oliver, Edwin L., assignor.)
Olson, Arthur A., Youngstown, Ohio. Air heating furnace. 2,279,518; Apr. 14.
Olson, Elnar R., Richmond, Ind., assignor to Belden Manufacturing Company, Chicago, Ill. Electrical connector. 2,279,794; Apr. 14.
O'Malley, Thomas R., assignor to American Viscose Corporation, Wilmington, Del. Staple fiber cutter. 2,279,718; Apr. 14.
Osgood Company, The. (See White, Fred L., assignor.)
Overstrom, Conrad. (See Overstrom, Gustave A., G., and C.)
Overstrom, George. (See Overstrom, Gustave A., G., and C.)
Overstrom, Gustave A. and G., Eagle Rock, and C. Overstrom, Altadena, Calif. Balanced screening structure. 2,279,742; Apr. 14.
Owczynikow, Wladimir J., Cleveland, Ohio. Musical instrument. 2,279,637; Apr. 14.
Owens-Corning Fiberglas Corporation. (See Hilger, J., and Macholl, assignors.)
Oxweld Acetylene Company. (See Oldham, Samuel R., assignor.)
Package Machinery Company. (See Smith, E. L., and Clark, assignors.)
Package Machinery Company. (See Smith, E. L., and Melhorn, assignors.)
Package Machinery Company. (See Smith, E. L., and Van Wart, assignors.)
Packard Motor Car Company. (See Griswold, Walter R., assignor.)
Page Engineering Company. (See Page, John W., assignor.)
Page, John W., Chicago, Ill., assignor to Page Engineering Company. Pivot construction. 2,279,839; Apr. 14.
Papendick, Inc. (See Thum, Walter A., assignor.)
Paquin, Joseph N., Euclid, assignor to The Weatherhead Company, Cleveland, Ohio. Packless valve. 2,279,519; Apr. 14.
Partiot, Maurice, New York, N. Y. Hydraulic control system. 2,279,378; Apr. 14.
Patt, Leon A., Sanborn, assignor to The Carborundum Company, Niagara Falls, N. Y. Segmental abrasive wheel for pulp grinding. 2,279,486; Apr. 14.
Patterson, Harold N., San Francisco, Calif. Fire escape. 2,279,594; Apr. 14.
Patzer, William, and W. A. Tratsch, Chicago, Ill. Coin slide. 2,279,487; Apr. 14.
Patzer, William, and W. A. Tratsch, Chicago, Ill. Coin chute. 2,279,488; Apr. 14.
Paxton, Gerald C., and G. M. Criger, Riverside, and W. H. Paxton, deceased, by G. Paxton and H. S. Nicks, Riverside, executors, assignors to Food Machinery Corporation, San Jose, Calif. Automatic nailing machine. 2,279,638; Apr. 14.
Paxton, Gerald C., executor, et al. (See Paxton, G. C., Criger, and Paxton (W. H.).)
Paxton, Walter H. (See Paxton, G. C., Criger, and Paxton (W. H.).)
Payne, Lambert M., Detroit, Mich., assignor, by mesne assignments, to Eaton Manufacturing Company, Cleveland, Ohio. Automobile body heater. 2,279,489; Apr. 14.
Pearne, Frank Y., Los Angeles, Calif. Frame fabricating machine. 2,279,490; Apr. 14.
Pearson, Ben, Pine Bluff, Ark. Arrow holder. 2,280,003; Apr. 14.
Pearson Heel Manufacturing Company. (See Sauer, L. E., and Pearson, assignors.)
Pearson, Henry N. (See Sauer, L. E., and Pearson.)
Pease, Charles F., Pasadena, Calif. Hanger. 2,279,760; Apr. 14.
Pedder, Stanley. (See Crebbs, Earl R., assignor.)
Penn Electric Switch Co. (See Shaw, Burton E., assignor.)
Penote, Vincent S., Cleveland, and A. R. Askue, Mentor, assignors to The Cleveland Trencher Company, Cleveland, Ohio. Rotary wheel trenching machine. 2,280,004; Apr. 14.
Perillo, William R., New York, N. Y. Nail polish applicator. 2,279,520; Apr. 14.
Persons, Lawrence M., assignor to Automatic Control Corporation, St. Louis, Mo. Time and temperature control for stokers. 2,279,504; Apr. 14.
Pervan, Dorothy, executrix. (See Kramer, George W.)
Peters, Franklin T., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulosic structure and making same. 2,279,339; Apr. 14.
Petersen, E. A. (See Jakob, L. V., and Goldfisher, assignors.)
Petersen, Ove, Gentofte, near Copenhagen, Denmark. Governor for power engines. 2,279,491; Apr. 14.
Petersen, William, De Witt, Nebr. Wrench. 2,280,005; Apr. 14.
Peterson, Vernon A., Palm Springs, Calif. Vegetable display and conditioning stand. 2,279,521; Apr. 14.
Peterson, Willard D., assignor to Eastman Kodak Company, Rochester, N. Y. Couplers combined with hardening agents. 2,279,411; Apr. 14.
Pfaudler Co., The. (See Snyder, J. H., and Woodburn, Jr., assignors.)
Pfeifer, Carl, Milwaukee, Wis. Tire rivet. 2,280,006; Apr. 14.
Philco Corporation. (See Shoemaker, Malcolm G., assignor.)
Philipp, Otto. (See Breitling, E., Topel, and Philipp.)
Phillips, Paul D., Elmhurst, assignor to Benjamin Electric Mfg. Company, Des Plaines, Ill. Lighting fixture. 2,279,595; Apr. 14.
Pickard, Alfred E., et al. (See Busse, W. J., Wallace, and Lanham, assignors.)
Pierce, John B., Foundation. (See O'Brien, Joseph F., assignor.)
Piper, June H. (See Martinson, Martin, assignor.)
Pittman, Walter F. (See Ford, G. F., Lewis, and Pittman.)
Planteck, Stephen, Youngstown, Ohio. Safety guard for pneumatic chipping hammers and the like. 2,280,007; Apr. 14.
Plotts, Roland, Carlyle, Ill. Well pumping apparatus. 2,279,379; Apr. 14.
Pohl, Franz J. (See Schmidt, W., Pohl, and Nicodemus.)
Pollak, Fritz, Yonkers, N. Y. Production of moldable artificial masses. 2,279,743; Apr. 14.
Porter, Albert N., Tulsa, Okla. Bearing. 2,279,719; Apr. 14.
Posada, Victor M., San Salvador, El Salvador. Microscopic carriage. 2,279,412; Apr. 14.
Postlewaite, William R., assignor to Standard Oil Company of California, San Francisco, Calif. Conveyer for coated pipe. 2,279,340; Apr. 14.
Powell, Robert V., Oakland, Calif. Light for electric razors. 2,279,341; Apr. 14.
Powers, Walter P., East Orange, N. J., assignor to Associated Patentees, Inc., Ampere, N. J. Turn indicator. 2,280,038; Apr. 14.
Pratt, Elmer J., assignor to The Dole Valve Company, Chicago, Ill. Air valve. 2,279,492; Apr. 14.
Price, Stanley, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Package or container spacer block. 2,279,522; Apr. 14.
Princeton Knitting Mills, Inc. (See Fleisher, Harry, assignor.)
Products Development, Inc. (See Grant, Samuel, assignor.)
Pryor, Walter J., Cleveland, Ohio. Denture mold. 2,279,952; Apr. 14.
Quinn, Nelson J., assignor to Quinnex Corporation, Toledo, Ohio. Abrasive projecting apparatus. 2,279,342; Apr. 14.
Quinnex Corporation. (See Quinn, Nelson J., assignor.)
Quirk, Austin A. (See Watterworth, S. E., and Quirk.)
Radio Corporation of America. (See Brown, Charles H., assignor.)
Radio Corporation of America. (See Crosby, Murray G., assignor.)
Radio Corporation of America. (See Herzog, Carl, assignor.)
Radio Corporation of America. (See Reid, John D.)
Radio Corporation of America. (See Shelby, Robert E., assignor.)
Ragatz, Edward G., San Marino, assignor to Union Oil Company of California, Los Angeles, Calif. Apparatus for detecting water and other volatiles. 2,280,030; Apr. 14.
Rahner, Maxwell L., Highland Park, Ill. End liner for grinding mills. 2,279,639; Apr. 14.
Railroad Rolling Stock Patents Corporation. (See Janeway, Robert N., assignor.)
Ranco Incorporated. (See Hobbs, Walter V., assignor.)
Ravenscroft, Edward A., Glencoe, assignor to Abbott Laboratories, North Chicago, Ill. Capsule making machine. 2,279,505; Apr. 14.
Raymond, Thomas K. (See Hayes, R., and Slater, assignor.)
Raytheon Manufacturing Company. (See Crout, Prescott D., assignor.)
Raytheon Manufacturing Company. (See Gross, Fritz A., assignor.)
Read, Balfour, Detroit, Mich. Internal combustion engine. 2,279,413; Apr. 14.
Rebmann, Johannes. (See Johnske, F., and Rebmann.)
Reconstruction Finance Corporation. (See Westrope, Frederick J., assignor.)
Reeser, William O., Buffalo, N. Y. Cowling fastener. 2,279,343; Apr. 14.
Reichel, Wladimir A., Hackensack, assignor to Bendix Aviation Corporation, Bendix, N. J. Altitude compensation for rate of climb indicators. 2,279,892; Apr. 14.
Reid, James S., Shaker Heights, assignor, by mesne assignments, to The Standard Products Company, Port Clinton, Ohio. Injecting method and means for molding thermoplastic materials. 2,279,344; Apr. 14.

Reid, James S., Shaker Heights, assignor, by mesne assignments, to The Standard Products Company, Port Clinton, Ohio. Fabricated thermoplastic decorative trim member. 2,279,345; Apr. 14.

Reid, James S., Shaker Heights, assignor, by mesne assignments, to The Standard Products Company, Port Clinton, Ohio. Injection mold gating. 2,279,380; Apr. 14.

Reid, John D., Philadelphia, Pa., assignor to Radio Corporation of America. Frequency modulation signal detector. 2,279,506; Apr. 14.

Reiff, Orland M., and H. D. Hartough, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Mineral oil composition. 2,280,039; Apr. 14.

Reishauer Tool Works Limited. (See Rickenmann, Alfred, assignor.)

Reiter, Daniel I., New York, N. Y. Snap ring socket. 2,279,720; Apr. 14.

Remington Rand Inc. (See Going, George G., assignor.)

Remington Rand Inc. (See Thompson, Russell G., assignor.)

Republic Steel Corporation. (See Wald, M. D., and Karnatz, assignors.)

Resinous Products & Chemical Company, The. (See Cheetham, H. C., and Myers, assignors.)

Richardson, Ralph R., assignor, by mesne assignments, to Chicago Carton Company, Chicago, Ill. Packaging. 2,279,381; Apr. 14.

Richey, Robert C., Springfield, Ohio. Tobacco pipe charger. 2,279,963; Apr. 14.

Rickenmann, Alfred, assignor to Reishauer Tool Works Limited, Zurich, Switzerland. Dressing grinding disks. 2,279,523; Apr. 14.

Ringmarck, Emil R., Svedala, Sweden. Bag filling apparatus. 2,279,640; Apr. 14.

Ripper, Kurt, Vienna, Austria, assignor to American Cyanamid Company, New York, N. Y. Production of thiourea-aldehyde type products. 2,279,493; Apr. 14.

Roake, Harris H., Glendale, Calif. Grinder. 2,279,494; Apr. 14.

Robb, Oscar P. (See Thomas, T. M., Russell, and Robb.)

Robbie, Leonard W., assignor to Universal Oil Products Company, Chicago, Ill. Coking chamber. 2,279,524; Apr. 14.

Roberts and Schaefer Company. (See Haworth, Mack E., assignor.)

Robinson, Robert L., and R. L. Thompson, Oakdale, Calif. Sheep drenching apparatus. 2,279,840; Apr. 14.

Rockola, David C., assignor to Rock-Ola Manufacturing Corporation, Chicago, Ill. Road vehicle. 2,279,874; Apr. 14.

Rock-Ola Manufacturing Corporation. (See Rockola, David C., assignor.)

Rogers, John C., Oak Park, assignor to Crown Stove Works, Cicero, Ill. Electric stove. 2,279,525; Apr. 14.

Rooks, John H., Springvale, Ga. Cultivating apparatus. 2,280,008; Apr. 14.

Root Manufacturing Company, The. (See Root, Ralph R., assignor.)

Root, Ralph R., Lakewood, assignor to The Root Manufacturing Company, Cleveland, Ohio. Dusting apparatus. 2,279,495; Apr. 14.

Rosenblum, Israel, New York, N. Y. Soluble phenolic resin. 2,279,526; Apr. 14.

Rosensteel, Robert M., Franklin Township, Westmoreland County, assignor to The Union Switch and Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,280,009; Apr. 14.

Rosheim, John, Scarville, Iowa. Self-closing gate or the like. 2,279,527; Apr. 14.

Ross, Donald P., and J. J. Sheridan, New York, N. Y. Match book container. 2,279,893; Apr. 14.

Ross, John. (See Dreger, E. E., Ross, and Kirschenbauer.)

Ross, Lester T., assignor to The Burch Corporation, Crestline, Ohio. Shoulder finishing apparatus. 2,279,641; Apr. 14.

Ross, Raymond W., assignor to Leeds & Northrup Company, Philadelphia, Pa. Control apparatus. 2,279,528; Apr. 14.

Rossi, Carlo. (See Graenacher, C., and Rossi.)

Roy, Albert O. (See Hargreaves, R., and Roy.)

Royle, Edwin B., assignor to The Elmco Corporation, Salt Lake City, Utah. Shoveling machine. 2,279,529; Apr. 14.

Russel, Philip S., assignor to Detroit Lubricator Company, Detroit, Mich. Control device. 2,279,582; Apr. 14.

Russell, Cecil H. (See Thomas, T. M., Russell, and Robb.)

Russell Manufacturing Company, The. (See Walters, Gustav, assignor.)

S. M. A. Corporation. (See Seibert, H. F., Szabo, Wyendo, and Eckhardt, assignors.)

Sackett, Justus R., Wynnewood, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Stencil paste. 2,279,496; Apr. 14.

St. Thomas, William H., assignor to E. J. Wilkins Co., Gloversville, N. Y. Cigarette case. 2,279,696; Apr. 14.

Sallmann, Richard, Bottmingen, and O. Albrecht, Neue Welt, near Basle, assignors to Society of Chemical Industry in Basle, Basle, Switzerland. Asymmetrical condensation products and process of preparing same. 2,279,497; Apr. 14.

Sammons, Charles W. (See Moncrieff, R. W., and Sammons.)

Sauer, Louis E., University City, and H. N. Pearson, assignors to Pearson Heel Manufacturing Company, St. Louis, Mo. Heel construction. 2,279,894; Apr. 14.

Saunders, Norman H., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Automatic telephone system. 2,279,531; Apr. 14.

Schatten, Abraham, New York, N. Y. Nurse's uniform. 2,279,761; Apr. 14.

Schlesser, Caspar, Ennenda, Canton Glarus, Switzerland. Drawing apparatus for flyer frames. 2,279,797; Apr. 14.

Schipper, Adriaan J., Kapelle near Goes, Zeeland, Netherlands. Lantern. 2,279,596; Apr. 14.

Schmidt, Benjamin F., Los Angeles, Calif. Pump. 2,279,498; Apr. 14.

Schmidt, Walter, Frankfort-on-the-Main-Hochst, F. J. Pohl, Hofheim in Taunus, and O. Nicodemus, Frankfort-on-the-Main-Hochst, Germany, assignors, by mesne assignments, to Winthrop Chemical Company, Inc., New York, N. Y. Preparing cycloalkanes. 2,279,721; Apr. 14.

Schoumaker, Mitchell J., Minneapolis, Minn., assignor of one-fourth to J. G. Haeg. Thermostat. 2,279,929; Apr. 14.

Schreiner, William J., Cincinnati, Ohio. Clamp. 2,279,642; Apr. 14.

Schwarze, Paul. St. Gallen, Switzerland. Flashlight lamp. 2,280,048; Apr. 14.

Schweitzer & Conrad, Inc. (See Lindell, S. I., and Van Ryan, assignors.)

Schweitzer & Conrad, Inc. (See McMahon, George F., assignor.)

Scott, George R., Detroit, Mich. Worm for use in double enveloping worm gearing. 2,279,414; Apr. 14.

Scott-Paine, Hubert. (See Marten-Gwilliam, V. C. E., assignor.)

Scott, Thomas R., and A. A. New, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Electrical insulating materials. 2,279,762; Apr. 14.

Scott, William M., Jr., Bryn Mawr, Pa., assignor, by mesne assignments, to I-T-E Circuit Breaker Company of Pennsylvania. Switchboard. 2,279,841; Apr. 14.

Secretan, Kenyon, Haddenham, and J. Horsfall, London, England. Electrical device for indicating or determining distances. 2,279,695; Apr. 14.

Seebach, Fritz, Erkner near Berlin, Germany, assignor to Bakelite Corporation. Process of combining hardenable phenol-aldehyde condensation products with air-drying fatty oils. 2,279,499; Apr. 14.

Seibert, Howard F., and L. J. Szabo, Cleveland, J. Wyeno, Chagrin Falls, and E. R. Eckhardt, Cleveland, Ohio, assignors, by mesne assignments, to S. M. A. Corporation, Chicago, Ill. Preparation of nicotinic acid amide. 2,280,040; Apr. 14.

Sellberg, Henning J. (See Merickle, Arnold J., assignor.)

Selmer, Johan F., Oslo, Norway. Controlling means for hoists and winches. 2,279,597; Apr. 14.

Semon, Waldo L., Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Accelerator of vulcanization. 2,279,875; Apr. 14.

Seran, Harry A., Cucuta, Colombia. Cleaning composition. 2,279,532; Apr. 14.

Severin, Edwin, and O. Brünnert, Berlin, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Zehlendorf, Osteweg, Germany. Circuit organization for piezo-electric pickup. 2,279,500; Apr. 14.

Shakespeare Company. (See Balz, William G., assignor.)

Shannon, Joseph C., Alma, Colo. Mineral separator. 2,279,895; Apr. 14.

Shaw, Burton E., Bristol, assignor to Penn Electric Switch Co., Goshen, Ind. Fuse box and entrance switch. 2,279,744; Apr. 14.

Sheeler, William E., Spring Township, Berks County, assignor to Berkshire Knitting Mills, Wyomissing, Pa. Elastic lace stitch strain absorbing means for hosiery and the like. 2,279,346; Apr. 14.

Shelburne, Clyde D., Shelburn, Ind. Lawn mower sharpening apparatus. 2,279,798; Apr. 14.

Shelby, Robert E., Teaneck, N. J., assignor to Radio Corporation of America. Electronic modulator for constant frequency variable dot transmission. 2,279,930; Apr. 14.

Shell Development Company. (See Cheney, Harry A., assignor.)

Shell Development Company. (See Larsen, R. G., assignor.)

Shell Development Company. (See Luten, D. B., Jr., and De Benedictis, assignors.)

Sheridan, John J. (See Ross, D. P., and Sheridan.)

Sherman, Vernon W. (See Goode, G. C., and Sherman.)

Sherwin-Williams Company, The. (See Harris, Ellery G., assignor.)

Shoemaker, Malcolm G., Abington, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Domestic refrigerator. 2,279,928; Apr. 14.

Shore, William E., West New Brighton, N. Y. Manicure device. 2,279,533; Apr. 14.

Sidebotham, Melvin H., West Newton, Mass., and R. A. Himes, Emeryville, Calif. Method and machine for making and collapsing paper boxes. 2,279,534; Apr. 14.

Siemens-Reiniger-Werke Aktiengesellschaft. (See Niemann, Carl, assignor.)

Silver, Monroe H., Canton, N. C. Mail dispenser. 2,279,643; Apr. 14.

Simmons, Norwood L. (See Nadeau, G. F., Simmons and Kenyon.)

Simons, Aaron, Bronx, N. Y. Method and apparatus for drawing metal. 2,279,347; Apr. 14.

Simons, Aaron, Bronx, N. Y. Method and apparatus for drawing metal. 2,279,348; Apr. 14.

Simons, Aaron, Bronx, N. Y. Method and apparatus for drawing metal. 2,279,349; Apr. 14.

Simons, Aaron, Bronx, N. Y. Method and apparatus for drawing metal. 2,279 350; Apr. 14.

Simons, Aaron, Bronx, N. Y. Method and apparatus for drawing strip. 2,279,415; Apr. 14.

Sinclair, Alfred C., Memphis, Tenn. Pump. 2,279,645; Apr. 14.

Sinden, Alfred De L., Aurora, assignor, by mesne assignments, to Link-Belt Company, Chicago, Ill. Conveyer. 2,279,862; Apr. 14.

Singer Manufacturing Company. (See Chason, Samuel H., assignor.)

Singer Manufacturing Company, The. (See Enos, John P., assignor.)

Singer Manufacturing Company, The. (See Myers, Walter, assignor.)

Sipe, Harry E., New York, N. Y. Shafting connection. 2,279,954; Apr. 14.

Sipe, Harry E., New York, N. Y. Shafting connection. 2,279,955; Apr. 14.

Sipe, Harry E., New York, N. Y. Shafing connection. 2,279,956; Apr. 14.

Sivil, Cecil S., Roselle, assignor to Baker & Company, Inc., Newark, N. J. Alloys. 2,279,763; Apr. 14.

Skinner, Charles K. (See Suits, C. G., and Skinner.)

Skinner, Clawson N., Whittier, Calif. Partial denture. 2,279,351; Apr. 14.

Slagh, Harold R. (See Britton, E. C., and Slagh.)

Slater, Joseph. (See Hayes, R., and Slater.)

Slayter Electronic Corporation. (See Bennett, Willard H., assignor.)

Slayter Electronic Corporation. (See Slayter, Games, assignor.)

Slayter, Games, Newark, Ohio, assignor to Slayter Electronic Corporation. Chemical synthesis with electric precipitation. 2,279,583; Apr. 14.

Sliger, Oscar, University City, Mo. Counter-sham partition clip. 2,279,957; Apr. 14.

Smith, Earle S., and D. M. Meeker, assignors to The Toledo Porcelain Enamel Products Company, Toledo, Ohio. Sign. 2,280,010; Apr. 14.

Smith, Elmer L., Longmeadow, and F. R. Clark, assignors to Package Machinery Company, Springfield, Mass. Making packages. 2,279,842; Apr. 14.

Smith, Elmer L., Longmeadow, and C. E. Melborn, assignors to Package Machinery Company, Springfield, Mass. Wrapper feed for wrapping machines. 2,279,843; Apr. 14.

Smith, Elmer L., Longmeadow, and E. A. Van Wart, Wilbraham, assignors to Package Machinery Company, Springfield, Mass. Labeling device. 2,279,844; Apr. 14.

Smith, Frank P., Silver City, N. Mex. Device for making spectral analyses. 2,279,646; Apr. 14.

Smith, Harold W., assignor, by mesne assignments, to American Liquid Gas Corporation, Los Angeles, Calif. Means for preparing combustible fuel. 2,279,530; Apr. 14.

Smith, S., & Sons (Motor Accessories) Limited. (See Davis, Wilfred O., assignor.)

Smith, Sidney C., Philadelphia, Pa., and R. T. Van Ness, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Process for distillation. 2,279,764; Apr. 14.

Smith, William N., Dallas, Tex. Cotton picking machine. 2,279,598; Apr. 14.

Snelling, Walter O., assignor to Trojan Powder Company, Allentown, Pa. Exudate trap for shells. 2,279,416; Apr. 14.

Snyder, Albert F., Troy, and M. Solomon, Albany, assignors to Cluett, Peabody & Co., Inc., Troy, N. Y. Necktie. 2,279,845; Apr. 14.

Snyder, James H., Rochester, and R. S. Woodburn, Jr., Brighton, assignors to The Pfaudler Co., Rochester, N. Y. Container support. 2,279,958; Apr. 14.

Snyder, Omar E. (See Banigan, T. F., and Snyder.)

Societe des Usines Chimiques Rhone-Poulenc. (See Lahousse, J. E. G., Casati and Gonnard, assignors.)

Society of Chemical Industry in Basle. (See Graenacher, C., and Rossi, assignors.)

Society of Chemical Industry in Basle. (See Sallmann, R., and Albrecht, assignors.)

Socony-Vacuum Oil Company, Incorporated. (See Reiff, O. M., and Hartough, assignors.)

Solomon, Morris. (See Snyder, A. F., and Solomon.)

Sonneborn, L., Sons, Inc. (See Liberthson, Leo, assignor.)

Spaeth, Charles P., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of urea nitrate. 2,279,765; Apr. 14.

Spalding, Albert K., Dallas, assignor to Thermo Fire Brick Company, Sulphur Springs, Tex. Furnace wall tie. 2,279,644; Apr. 14.

Spong, Norman C. (See Burson, Harry H., assignor.)

Spooner, Jermain A., Parsons, Kans. Cheese cover. 2,280,011; Apr. 14.

Stackpole Carbon Company. (See Clancy, William E., assignor.)

Standard Lime and Stone Company. (See Chantler, Lewis W., assignor.)

Standard Oil Company of California. (See Dayhuff, Walter C., assignor.)

Standard Oil Company of California. (See Postlewaite, William R., assignor.)

Standard Products Company, The. (See Reid, James S., assignor.)

Stanford, James F., Cuyahoga Falls, Ohio, assignor to Selden W. Anderson, doing business as Anderson Rubber Company. Noise maker for hollow toys. 2,279,799; Apr. 14.

Stapleton, Patrick L., Scotia, N. Y., assignor to General Electric Company. Temperature measuring apparatus. 2,279,846; Apr. 14.

Stasio, Frank, Corry, Pa. Pay out reel. 2,280,012; Apr. 14.

Stebbins, Harry Y., Los Angeles, Calif., assignor to General American Precooling Corporation, Chicago, Ill. Refrigerating car. 2,279,847; Apr. 14.

Steudel, George E. (See Hogberg, C. G., and Steudel.)

Stevens, Carlton R., Waterbury, Conn. Multiple punch press. 2,279,417; Apr. 14.

Stevenson, Halsey B., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polyamides. 2,279,745; Apr. 14.

Stewart, Aubrey L., Tulsa, Okla., and C. M. Landermilk, Shreveport, La. Oil well choke valve. 2,279,959; Apr. 14.

Stewart, Nelson H. (See Lempert, J., and Stewart.)

Stickel, Carl A., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,279,535; Apr. 14.

Strang, Le Roy M. (See Von Bon Horst, E., and Strang.)

Straw, Clayton, Henniker, N. H., assignor to Heel Finisher, Inc., Boston, Mass. Heel-shaping machine. 2,279,876; Apr. 14.

Strobridge, William, Syracuse, assignor to United States Hoffman Machinery Corporation, New York, N. Y. Garment pressing machine. 2,279,599; Apr. 14.

Stultz, Alfred M., Arkansas City, Kans. Adjustable pipe threader. 2,280,013; Apr. 14.

Suits, Chauncey G., Schenectady, N. Y., and C. K. Skinner, Southport, Conn., assignors to General Electric Company. Washing machine. 2,279,878; Apr. 14.

Sullivan, William L., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Preparation of fluorescent coating material. 2,279,877; Apr. 14.

Summerbell, William, Watervliet, N. Y. Cocking mechanism. 2,279,352; Apr. 14.

Sutliffe, Frank C. (See White, M. C., Sutliffe and Ashley.)

Svenska Aktiebolaget Bromsregulator. (See Browall, Bert H., assignor.)

Swarthe, Louis L., as trustee. (See Ferlin, John J., assignor.)

Swebillus, Carl G., Hamden, Conn., assignor, by mesne assignments, to Western Cartridge Company. Takedown firearm. 2,279,931; Apr. 14.

Swenson, George E., Hastings-upon-Hudson, N. Y., assignor to The Celotex Corporation, Chicago, Ill. Shingle and making the same. 2,279,382; Apr. 14.

Symmes, Ernest M. (See Finnan, Lawrence J., Jr., assignor.)

Szabo, Lester J. (See Seibert, H. F., Szabo, Wyeno and Eckhardt.)

Tappan, Dewitt, assignor to The Caldwell Manufacturing Co., Rochester, N. Y. Sash balance. 2,279,600; Apr. 14.

Taylor, John R., Bedford, England, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Grab hoist. 2,279,722; Apr. 14.

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Johnske, F., and Rebmann, assignors.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Severin, E., and Brünnert, assignors.)

Teletype Corporation. (See Grey, Victor, assignor.)

Teletype Corporation. (See Zenner, Walter J., assignor.)

Ter Horst, William P., Packanack Lake, N. J., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Stabilization of insecticides. 2,279,800; Apr. 14.

Terroni, Tesco B. D., Liverpool, England, assignor to Associated Telephone & Telegraph Company, Chicago, Ill. Electrical signaling system. 2,279,697; Apr. 14.

Terry, Edward F., Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y. Steel retainer. 2,279,960; Apr. 14.

Teunisz, William C., Grand Rapids, Mich. Cream separator. 2,279,418; Apr. 14.

Teunisz, William C., Grand Rapids, Mich. Milk container and internal closure or separator. 2,279,419; Apr. 14.

Thermo Fire Brick Company. (See Spalding, Albert K., assignor.)
Thomas & Betts Co., The. (See Bergan, Martin D., assignor.)
Thomas, Norman M., Medford Lakes, N. J., assignor to Joe Lowe Corporation, New York, N. Y. Portable stick manipulator. 2,279,801; Apr. 14.
Thomas, Thomas M., Huntington Park, C. H. Russell, Maywood, and O. P. Robb, assignors to Killefer Manufacturing Corporation, Los Angeles, Calif. Cable laying implement. 2,280,014; Apr. 14.
Thommen, Hans, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Electric circuit breaker. 2,279,536; Apr. 14.
Thompson, Leslie E., and A. Jenkins, London, England, assignors, by mesne assignments, to The Union Switch and Signal Company, Swissvale, Pa. Alternating electric current rectifier of the selenium type. 2,279,746; Apr. 14.
Thompson, Robert L. (See Robinson, R. L., and Thompson.)
Thompson, Russell G., West Hartford, Conn., assignor to Remington Rand Inc., Buffalo, N. Y. Typewriting and like machine. 2,279,802; Apr. 14.
Thum, Walter A., assignor to Papendick, Inc., St. Louis, Mo. Biscuit cutting and panning machinery. 2,279,420; Apr. 14.
Tilley, Edward W. (See Hotchkiss, John K., assignor.)
Tillinghast, Delbert P., Stonington, Conn., assignor to Atwood Machine Company. Spinning and twisting frame. 2,279,537; Apr. 14.
Tipton, William D., Baltimore, Md. Hydrodynamic transmission. 2,280,015; Apr. 14.
Tisdale, Wendell H., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coccidiosis control. 2,279,421; Apr. 14.
Toledo Porcelain Enamel Products Company, The. (See Smith, E. S., and Meeker, assignors.)
Toledo Scale Company. (See Bohannan, Robert S., assignor.)
Toledo Scale Company. (See Hem, Halvor W., assignor.)
Toledo Scale Company. (See Hem, H. O., assignor.)
Toledo Scale Company. (See Weckerly, Mark A., assignor.)
Tönnies, Hans F., Hamburg-Grossflottbek, Germany. Photoelectric exposure determining apparatus. 2,279,723; Apr. 14.
Topel, Georg. (See Breitling, E., Topel, and Philipp.)
Trabuisi, Mario. (See Meyerhof, W., and Trabuisi.)
Tratsch, Walter A. (See Patzer, W., and Tratsch.)
Trojan Powder Company. (See Bowlby, Walter D., assignor.)
Trojan Powder Company. (See Snelling, Walter O., assignor.)
Trotter, John C., assignor to Bell Aircraft Corporation, Buffalo, N. Y. Frame for machine guns. 2,279,601; Apr. 14.
Truesdell, Lucius B., De Land, Fla. Marble shooter. 2,279,766; Apr. 14.
Turner, James F., and C. P. Breidenbaugh, assignors to Flynn & Emrich Company, Baltimore, Md. Ice cubing machine. 2,280,049; Apr. 14.
Twin Disc Clutch Company. (See Adamson, Nicholas F., assignor.)
Ulrich, Frederick, assignor to Conmar Products Corporation, Bayonne, N. J. Locking slider for slide fasteners. 2,279,767; Apr. 14.
Ulrich, Frederick, assignor to Conmar Products Corporation, Bayonne, N. J. Manufacture of slide fasteners. 2,279,768; Apr. 14.
Unger, Gilbert C., Jr., Louisville, Ky., assignor to Engineering Development Corporation, Jacksonville, Fla. Apparatus for drying sludge. 2,279,848; Apr. 14.
Union Oil Company of California. (See Bradley, W. E., and Volz, assignors.)
Union Oil Company of California. (See Ragatz, Edward G., assignor.)
Union Railway Equipment Co. (See Zane, Edward W., assignor.)
Union Switch & Signal Company, The. (See Agnew, Edward J., assignor.)
Union Switch & Signal Company, The. (See Allison, Leslie R., assignor.)
Union Switch & Signal Company, The. (See Crooks, Ralph K., assignor.)
Union Switch & Signal Company, The. (See Gilson, Robert M., assignor.)
Union Switch & Signal Company, The. (See Girardin, Louis, assignor.)
Union Switch and Signal Company, The. (See Rosensteel, Robert M., assignor.)
Union Switch and Signal Company, The. (See Thompson, L. E., and Jenkins, assignors.)
United-Carr Fastener Corporation. (See Cram, George F., assignor.)
United-Carr Fastener Corporation. (See Johnson, Frank E., assignor.)
United-Carr Fastener Corporation. (See Murphy, Howard J., assignor.)
United Shoe Machinery Corporation. (See Bray, W. N., and Bagshaw, assignors.)
United Shoe Machinery Corporation. (See Eppler, Andrew Jr., assignor.)
United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)
United States Hoffman Machinery Corporation. (See Strobridge, William, assignor.)
United States Rubber Company. (See ter Horst, William P., assignor.)
Universal Oil Products Company. (See Benedict, W. L., and Ahlberg, assignors.)
Universal Oil Products Company. (See Robbie, Leonard W., assignor.)
Universal Oil Products Company. (See Zimmerman, Gordon B., assignor.)
Utah Radio Products Company. (See Barrett, Edward L., assignor.)
Van Duuren, Hendrik C. A., Wassenaar, assignor to Kingdom of the Netherlands, Post Office Administration, The Hague, Netherlands. Telegraph system. 2,279,353; Apr. 14.
Van Ness, Russell T. (See Smith, S. C., and Van Ness.)
Van Ryan, Anthony. (See Lindell, S. I., and Van Ryan.)
Vansickle, Edward K., Homestead, Pa. Scaffold support. 2,279,850; Apr. 14.
Van Wart, Edwin A. (See Smith, E. L., and Van Wart.)
Vaudoux, Henry, Paris, France, assignor to Compagnie Generale de Telegraphie sans Fil. Directional antenna. 2,279,422; Apr. 14.
Venetian Blind Laundry Manufacturing and Sales Corporation, The. (See Long, R. G., and French, assignors.)
Vignos, James C., Canton, assignor to Ohio Ferro-Alloys Corporation, Philo, Ohio. Production of ferromanganese. 2,280,041; Apr. 14.
Visitacion, Aniceto R., New York, N. Y. Security clip. 2,279,803; Apr. 14.
Vogel, Edward A., Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Impulse coupling. 2,279,538; Apr. 14.
Vogel, Max, assignor to Neva Clog Products, Inc., Bridgeport, Conn. Stapling machine. 2,279,584; Apr. 14.
Vogt, Clarence W., Norwalk, Conn., and E. E. Lakso, Fitchburg, Mass., said Lakso assignor to said Vogt. Horse training apparatus. 2,279,539; Apr. 14.
Vokes, Cecil G., London, England. Filter. 2,279,423; Apr. 14.
Volz, John L. (See Bradley, W. E., and Volz.)
Von Behren, Edward E., St. Louis, Mo., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Control valve device. 2,279,424; Apr. 14.
Von Bon Horst, Earl, and Le R. M. Strang, San Clemente, Calif. Pipe cleaner clamp. 2,279,769; Apr. 14.
Von Gehr, George H., Chicago, Ill. Electric outlet. 2,279,383; Apr. 14.
Von Henke, Edmund J., assignor to American Electric Fusion Corporation, Chicago, Ill. Installing cooling device in welding electrodes. 2,279,932; Apr. 14.
Von Hofe, George W., Bound Brook, assignor to New Jersey Machine Corporation, Hoboken, N. J. Applying labels and machine for applying labels. 2,279,724; Apr. 14.
Voorhis, Gordon D., assignor to Voorhis-Tiebout Company, Inc., Rhinebeck, N. Y. Dispensing soap. 2,279,602; Apr. 14.
Voorhis-Tiebout Company. (See Voorhis, Gordon D., assignor.)
Voth, Walter P. and C. B. Hudson, assignors to Akron Standard Mold Company, Akron, Ohio. Vulcanizing press. 2,279,540; Apr. 14.
Voysey, Alfred E., Prospect Park, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Discharge shutter for blowers. 2,279,425; Apr. 14.
Wagner Electric Corporation. (See Milster, A. N., and Cox, assignors.)
Wald, Max D., University Heights, Ohio, and F. A. Karnatz, Indianapolis, Ind., assignors, by direct and mesne assignments, to Republic Steel Corporation, Cleveland, Ohio. Method for recovering pyridine. 2,279,585; Apr. 14.
Wallace, Frank. (See Busse, W. J., Wallace and Lanham.)
Wallace, Frank C., assignor to Hollywood Comb Curler Inc., Los Angeles, Calif. Pin case. 2,279,357; Apr. 14.
Wallis, Enloe P., St. Petersburg, Fla. Manual mechanical image. 2,279,603; Apr. 14.
Wallis, Porter B., Hillsboro, Tex., assignor to Indiana Steel & Wire Company, Muncie, Ind. Tie-forming tool. 2,279,507; Apr. 14.
Waln, James A., Albany, and R. L. Waln, Voorheesville, N. Y. Automatic record changer stop. 2,279,851; Apr. 14.
Waln, Robert L. (See Waln, J. A., and R. L.)
Walsh, William, London, England. Internal fitting for jars, bottles, cans, boxes, showcases, and other hollow containers. 2,279,426; Apr. 14.
Walsh, William, London, England. Internal fitting for containers. 2,279,427; Apr. 14.
Walsh, William, London, England. Internal fitting for hollow containers. 2,279,428; Apr. 14.
Walters, Gustav, assignor to The Russell Manufacturing Company, Middletown, Conn. Woven wick. 2,279,354; Apr. 14.
Wälti, Rudolf, Basle, Switzerland. Process for producing copying paper. 2,279,604; Apr. 14.
Walz, John G., Holyoke, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigeration apparatus. 2,279,804; Apr. 14.

Warfield Company, The. (See Forsberg, Albin L., assignor.)
Warrington, Albert R. van C., Wallingford, Pa., assignor to General Electric Company. Control of electromagnetic devices. 2,279,849; Apr. 14.
Waters, Harry F., New York, N. Y. Skived container construction and making the same. 2,279,358; Apr. 14.
Waters, Harry F., New York, N. Y. Skived container construction and making the same. 2,279,359; Apr. 14.
Watling, Landon C., Webster Groves, Mo. Curtain stretcher. 2,279,647; Apr. 14.
Watterworth, Stewart E., and A. A. Quirk, Bridgeport, Conn. Speed limit control. 2,279,429; Apr. 14.
Weatherhead Company, The. (See Paquin, Joseph N., assignor.)
Weaver, Allan, Port Washington, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Impulse transmitter. 2,279,360; Apr. 14.
Weber, Frederick C., Eastchester, N. Y., assignor to The Keratene Company, Winsted, Conn. Bread making. 2,280,031; Apr. 14.
Webster, Thomas F., Madison, N. C. Combination chair and bed. 2,279,852; Apr. 14.
Weckerly, Mark A., assignor to Toledo Scale Company, Toledo, Ohio. Closure testing device. 2,279,698; Apr. 14.
Wells, Alden C., Kansas City, Mo. Lighting fixture. 2,279,933; Apr. 14.
Welsh, Charles H., Roseburg, Oreg. Altitude feeler for aircraft. 2,279,605; Apr. 14.
Werdehoff, Albert B., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Vehicle frame. 2,280,016; Apr. 14.
Werner, Frank R., assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 2,279,805; Apr. 14.
Westberg, Ed., as trustee. (See Ferlin, John J., assignor.)
Western Cartridge Company. (See Swebilius, Carl G., assignor.)
Western Electric Company. (See Dye, Paul J., assignor.)
Western Electric Company. (See Lang, Edd C., assignor.)
Western Electric Company. (See Miner, Robert V., assignor.)
Western Electric Company. (See Price, Stanley, assignor.)
Western Electric Company, Incorporated. (See Jones, Albert, assignor.)
Western Union Telegraph Company, The. (See Blanton, William B., assignor.)
Western Union Telegraph Company, The. (See Morgenstern, R. V., and Gilbert, assignors.)
Westinghouse Air Brake Company, The. (See Aikman, Burton S., assignor.)
Westinghouse Air Brake Company, The. (See Cameron, Mortimer B., assignor.)
Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
Westinghouse Air Brake Company, The. (See Hewitt, Ellis E., assignor.)
Westinghouse Air Brake Company, The. (See Logan, John W., Jr., assignor.)
Westinghouse Air Brake Company, The. (See McClure, Glenn T., assignor.)
Westinghouse Air Brake Company, The. (See McCune, Joseph C., assignor.)
Westinghouse Air Brake Company, The. (See Von Behren, Edward E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Arnott, Edward G. F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Bowman, Robert A., assignor.)
Westinghouse Electric & Manufacturing Company. (See de Margitta, Michael J. N., assignor.)
Westinghouse Electric & Manufacturing Company. (See Freeman, George A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Huggins, Leroy G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jennings, Oliver S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lempert, J., and Stewart, assignors.)
Westinghouse Electric & Manufacturing Company. (See Newton, Stanley H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Sullivan, William L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Voysey, Alfred E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Walz, John G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Whittaker, Charles C., assignor.)
Westrope, Frederick J., Pleasant Ridge, assignor, by mesne assignments, to Reconstruction Finance Corporation, Detroit, Mich. Foldable vehicle top. 2,279,541; Apr. 14.
Westrope, Frederick J., Pleasant Ridge, assignor, by mesne assignments, to Reconstruction Finance Corporation, Detroit, Mich. Visor. 2,279,542; Apr. 14.
Westrope, Frederick J., Pleasant Ridge, assignor, by mesne assignments, to Reconstruction Finance Corporation, Detroit, Mich. Visor assembly. 2,279,648; Apr. 14.
Westrope, Fred J., Pleasant Ridge, Mich., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Frame construction for vehicle bodies, especially for over-engine cab. 2,279,806; Apr. 14.
Weycraft Paper Corporation. (See Behnke, John M., assignor.)
Wheeler, Harold A., Great Neck, N. Y., assignor to Hazeltine Corporation. Ultra-high-frequency signal translating stage. 2,279,543; Apr. 14.
Wheeling Steel Corporation. (See McElhinney, John H., assignor.)
White, Albert R., Glendale, Calif. Oil refiner pack. 2,279,699; Apr. 14.
White, Byron E., Brattleboro, Vt. Direction signal. 2,279,606; Apr. 14.
White, Clarence, Walnut Park, and O. B. Graham, assignors to Oil Well Manufacturing Corporation, Los Angeles, Calif. Valve seat driver. 2,279,649; Apr. 14.
White, Everett H., St. Paul, Minn. Thermostatic control device. 2,279,544; Apr. 14.
White, Fred L., assignor to The Osgood Company, Marion, Ohio. Portable hoist. 2,279,853; Apr. 14.
White, Morris C., San Francisco, F. C. Sutliffe, Mill Valley, and R. Ashley, Almonte, Calif., said Sutliffe and said Ashley, assignors to said White. Fluid meter. 2,279,607; Apr. 14.
Whitin Machine Works. (See Hargreaves, R., and Roy, assignors.)
Whitin Machine Works. (See Holt, Edwin M., assignor.)
Whitin Machine Works. (See Moss, Harry, assignor.)
Whitney, Kenneth E., Baltimore, Md., assignor to Bendix Aviation Corporation, Bendix, N. J. Apparatus for making aneroids. 2,279,854; Apr. 14.
Whittaker, Charles C., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Ventilating device and system. 2,279,961; Apr. 14.
Wilcox, Harry A., assignor to Automatic Signal Corporation, East Norwalk, Conn. Traffic actuated signaling apparatus. 2,279,896; Apr. 14.
Wildman Mfg. Co. (See Howie, Kenneth, assignor.)
Wilensky, Harry L., New York, N. Y. Tooth cleaning and gum massaging brush. (2,279,55; Apr. 14.
Wilke, Karl. (See Wolff, H., Krauch, and Wilke.)
Wilker, Herman. (See Wilker, Max, S., and H.)
Wilker, Max, Bridgeport, and S. and H. Wilker, South Norwalk, Conn. Pajamas. 2,280,017; Apr. 14.
Wilkes, James, Jr., Wolverhampton, England. Pack of transfer sheets. 2,279,855; Apr. 14.
Wilkins, E. J., Co. (See St. Thomas, William H., assignor.)
Will, Eric W. (See Kite, P. L., and La Mondia, assignors.)
Wingfoot Corporation. (See Clifford, A. M., assignor.)
Wingfoot Corporation. (See Hardman, Albert F., assignor.)
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Machine for heel breasting. 2,279,430; Apr. 14.
Winthrop Chemical Company. (See Schmidt, W., Pohl, and Nicodemus, assignors.)
Wisecup, Clarence E., Bronx, N. Y. Clothes line pin. 2,279,934; Apr. 14.
Witherspoon, Edith B., Englewood, N. J. Fastening means for cartons or the like. 2,279,356; Apr. 14.
Wolff, Hugo, Mannheim, E. Krauch, Neckargemuend, and K. Wilke, Frankfort-on-the-Main-Hochst, Germany, assignors to General Aniline & Film Corporation. Vat dyestuff of the dibenzanthrone series and making same. 2,279,725; Apr. 14.
Wood, Alan, Steel Company. (See Lieberman, Leon J., assignor.)
Wood, Charles D., Texas City, Tex. Coin controlled liquid dispenser. 2,279,650; Apr. 14.
Wood, Frank J., Riverside, assignor to Goodman Manufacturing Company, Chicago, Ill. Brushing apparatus. 2,279,608; Apr. 14.
Woodall, Carl, Los Angeles, Calif. Artificial limb. 2,279,962; Apr. 14.
Woodburn, Robert S., Jr. (See Snyder, J. H., and Woodburn, Jr.)
Worcester Tool & Stamping Co. Inc. (See Magnuson, Francis W., assignor.)
Wyeno, Juro. (See Selbert, H. F., Szabo, Wyeno, and Eckhardt.)
Yale & Towne Manufacturing Company, The. (See Heyer, Frederic K., assignor.)
Yonkers, John L., Evanston, Ill. Line clamp. 2,279,807; Apr. 14.
Young, Fred M., Racine, Wis. Tube attaching means for heat exchangers. 2,279,808; Apr. 14.
Zane, Edward W., assignor to Union Railway Equipment Co., Chicago, Ill. Floor rack. 2,279,545; Apr. 14.
Zenner, Walter J., Des Plaines, assignor to Teletype Corporation, Chicago, Ill. Printing telegraph apparatus. 2,279,609; Apr. 14.
Ziegler, Serge, Berlin, Germany. Igniting means for fuel-air burners. 2,279,546; Apr. 14.
Zimmerman, Gordon B., assignor to Universal Oil Products Company, Chicago, Ill. Hydrocarbon conversion. 2,279,547; Apr. 14.
Zimmerman Steel Company. (See Leppla, Rudolph, assignor.)
Zuhrt, Harry. (See Buchmann, K., and Zuhrt.)

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 14TH DAY OF APRIL, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Alloy, Producing a hard metal. P. Schwarzkopf. Re. 22,074; Apr. 14.
Alloy steel. L. G. Selmi. Re. 22,072; Apr. 14.
Alloys, Hard metal tool. P. Schwarzkopf. Re. 22,073; Apr. 14.
Burner control system, Fuel. F. D. Jeeeting. Re. 22,068; Apr. 14.
Hair curling device and curling hair. S. Freeman. Re. 22,067; Apr. 14.
Lamp, Stop and tail. S. M. Dover. Re. 22,066; Apr. 14.
Platform or the like, Suspending and moving a. A. L. Medenwald. Re. 22,069; Apr. 14.
Plywood, Normalizing hot pressed. J. V. Nevin. Re. 22,071; Apr. 14.
Telegraph system and apparatus. P. L. Myer and E. R. Wheeler. Re. 22,070; Apr. 14.

LIST OF PLANT INVENTIONS

Grape. E. Magnone. 509; Apr. 14.
Plant, Rose. H. C. Swim. 508; Apr. 14.

LIST OF DESIGN INVENTIONS

Banner or similar article. A. Wilburn and W. M. O'Neal. 132,037; Apr. 14.
Bottle. C. J. Trees. 132,052; Apr. 14.
Bracelet. A. Katz. 132,066; Apr. 14.
Brooch or similar article. A. Katz. 132,067–9; Apr. 14.
Brooch or similar article. A. Katz. 132,077–80; Apr. 14.
Card, Stencil lettering. R. Hormats. 132,019; Apr. 14.
Case, Merchandise display. J. Trojan. 132,015; Apr. 14.
Case or the like, Jewelry. L. Flier. 132,048; Apr. 14.
Case unit, Merchandise display. J. Trojan. 132,016; Apr. 14.
Centerpiece. C. W. Sawyer. 132,035; Apr. 14.
Chair, Wheeled. A. W. Wentz and C. N. Watkins. 132,061; Apr. 14.
Cover, Concrete burial vault. W. W. Haase. 132,054; Apr. 14.
Cover, Concrete burial vault. S. L. Schultz. 132,059–60; Apr. 14.
Door or similar article. M. Cummings. 132,040; Apr. 14.
Dress. I. Buchholz. 132,074; Apr. 14.
Dress. I. Buchholz. 132,076; Apr. 14.
Dress. I. Buchholz. 132,083; Apr. 14.
Dress. I. Buchholz. 132,085–6; Apr. 14.
Dress. I. Buchholz. 132,088; Apr. 14.
Dress. W. Clion. 132,062; Apr. 14.
Dress. M. Hobgood. 132,092; Apr. 14.
Dress. B. Kornberg. 132,093; Apr. 14.
Dress. W. Maidman. 132,071; Apr. 14.
Dress. D. Minchenberg. 132,064; Apr. 14.
Dress. S. Zahn. 132,065; Apr. 14.
Dress. S. Zahn. 132,095; Apr. 14.
Dress ensemble. I. Buchholz. 132,075; Apr. 14.
Dress ensemble. I. Buchholz. 132,082; Apr. 14.
Dress ensemble. I. Buchholz. 132,084; Apr. 14.
Dress ensemble. I. Buchholz. 132,087; Apr. 14.
Dress ensemble. A. Gershuny. 132,090–1; Apr. 14.
Dress ensemble. L. Helms. 132,063; Apr. 14.
Dress ensemble. B. Kessler. 132,081; Apr. 14.
Dress ensemble. B. Kornberg. 132,094; Apr. 14.
Fabric or similar article, Oiled silk. A. Reinhold. 132,057; Apr. 14.
Fastening device or similar article. W. S. Arnstein. 132,017; Apr. 14.
Flag. C. R. Johnson. 132,029; Apr. 14.
Game board. W. F. Peters. 132,013; Apr. 14.
Goblet or similar article. C. W. Sawyer. 132,042; Apr. 14.
Handbag and cigarette dispenser, Combination. H. A. Adams. 132,023; Apr. 14.
Hanger, Cup. J. P. Burke. 132,018; Apr. 14.
Holder or similar article, Flowerpot. P. Planeta. 132,055–6; Apr. 14.
Jewelry finding. A. Katz. 132,070; Apr. 14.
Jewelry finding. E. Roedelheimer. 132,072–3; Apr. 14.
Jewelry finding, Glass. M. Finkel. 132,089; Apr. 14.
Kitchen unit, Combination. G. L. C. Earle. 132,010; Apr. 14.
Lamp, Electric. W. Hansen. 132,011; Apr. 14.
Machine, Duplex facsimile. W. D. Teague. 132,051; Apr. 14.
Medal or similar article. L. P. Leddy. 132,031; Apr. 14.
Mixer, Concrete. C. F. Ball and L. G. Hilkemeier. 132,044; Apr. 14.
Pan, Bake. J. G. Jackson. 132,020; Apr. 14.
Pantie. J. L. Sarge. 132,058; Apr. 14.
Pipe, Tobacco. F. G. Borger. 132,045–6; Apr. 14.
Plate or similar article. D. M. Miller. 132,012; Apr. 14.
Projector. H. Osterberg, K. W. Harper, and W. F. Peck. 132,022; Apr. 14.
Scraper, Sleet. M. E. Trollen. 132,043; Apr. 14.
Shirt or similar article. B. Favorman and E. T. Cherin. 132,047; Apr. 14.
Sign, Advertising. T. E. Blankenship. 132,009; Apr. 14.
Sign or the like, Advertising. R. G. Regester. 132,014; Apr. 14.
Slip or similar article. S. Wolf. 132,053; Apr. 14.
Sweater. E. R. Popper. 132,050; Apr. 14.
Textile fabric. J. H. Abt. 132,024–6; Apr. 14.
Textile fabric. M. Christen. 132,027; Apr. 14.
Textile fabric. S. Weinberg. 132,036; Apr. 14.
Textile fabric. A. Zimmerman. 132,038–9; Apr. 14.
Textile fabric, Woven. G. A. Niedner. 132,032–4; Apr. 14.
Textile fabric, Woven. G. A. Neidner. 132,049; Apr. 14.
Tire. G. W. Anderson. 132,008; Apr. 14.
Tumbler or article of similar nature, Glass. B. Kogan. 132,021; Apr. 14.
Turbogenerator unit. D. L. Hadley. 132,041; Apr. 14.
Weight, Wheel balance. H. J. Kalajian. 132,030; Apr. 14.
Wheel, Vehicle. T. A. Davenport. 132,028; Apr. 14.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 14TH DAY OF APRIL, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive projecting apparatus. N. J. Quinn. 2,279,342; Apr. 14.
Accelerator of vulcanization. W. L. Semon. 2,279,875; Apr. 14.
Acetamidine anthranilate and its preparation. G. P. Ham and R. B. Barnes. 2,279,514; Apr. 14.
Advertising device, Attachable. G. S. Nelson. 2,280,037; Apr. 14.
Aiming and projecting play apparatus. F. R. Bodnar. 2,279,857; Apr. 14.
Air conditioning apparatus. L. G. Huggins. 2,279,787; Apr. 14.
Air conditioning system. R. B. P. Crawford. 2,279,657; Apr. 14.
Air heating furnace. A. A. Olson. 2,279,518; Apr. 14.
Method and apparatus for efficiently sterilizing air in ducts. E. G. F. Arnott. 2,279,810; Apr. 14.
Air intake device, Fresh. H. J. Findley. 2,279,369; Apr. 14.
Air valve. E. J. Pratt. 2,279,492; Apr. 14.
Air volume control. W. E. Kent. 2,279,948; Apr. 14.
Aircraft. E. Bugatti. 2,279,615; Apr. 14.
Aircraft, Control of. J. Blass and W. Langguth. 2,279,612; Apr. 14.
Alloy: *See*—
Magnesium base alloy.
Alloys. C. S. Sivil. 2,279,763; Apr. 14.
Altitude compensation for rate of climb indicators. W. A. Reichel. 2,279,892; Apr. 14.
Altitude feeler for aircraft. C. H. Welsh. 2,279,605; Apr. 14.
Amalgamator. R. W. Limpp. 2,279,473; Apr. 14.
Anchor. E. C. Craig. 2,279,302; Apr. 14.
Aneroids, Making. K. E. Whitney. 2,279,854; Apr. 14.
Antenna, Directional. H. Vaudoux. 2,289,422; Apr. 14.
Antierythemic action, Product of. J. E. G. Lahousse, A. M. L. Casati, and J. L. Gonnard. 2,279,468; Apr. 14.
Antistatic layers. G. F. Nadeau, N. L. Simmons, and W. O. Kenyon. 2,279,410; Apr. 14.
Apparatus for applying material to parts. A. Jones. 2,279,994; Apr. 14.
Apparatus for dehydrating, Air. H. J. Kaufman. 2,279,326; Apr. 14.
Apparatus for detecting water and other volatiles. E. G. Ragatz. 2,280,030; Apr. 14.
Apparatus for drying sludge. G. C. Unger, Jr. 2,279,848; Apr. 14.
Apparatus for flame hardening tubular structures. F. C. Emery and E. F. Green. 2,279,564; Apr. 14.
Apparatus for forming pellets. E. T. Meakin. 2,279,632; Apr. 14.
Apparatus for heating liquids. S. Chase and H. Holmboe. 2,280,028; Apr. 14.
Apparatus for separating particulate materials. M. E. Haworth. 2,279,590; Apr. 14.
Apparatus for sewing mattress pads and quilts. S. Marsack. 2,279,628; Apr. 14.
Apparatus for treating articles coated with a concentrated aqueous solution with gold cyanide. R. V. Miner. 2,279,580; Apr. 14.
Apparatus for treating flexible visible index material. C. E. Attwood. 2,279,701; Apr. 14.
Applicator, Fluid. L. V. Jakob and F. Goldfisher. 2,279,708; Apr. 14.
Applicator, Nail polish. W. R. Perillo. 2,279,520; Apr. 14.
Arrow holder. B. Pearson. 2,280,003; Apr. 14.
Artificial yarns, foils and similar materials, Production of. R. W. Moncrieff and C. W. Sammons. 2,279,478–9; Apr. 14.
Artificial yarns, foils and similar materials, Production of. R. W. Moncrieff and C. W. Sammons. 2,279,479; Apr. 14.
Asymmetrical condensation products and process of preparing same. R. Sallmann and O. Albrecht. 2,279,497; Apr. 14.
Automatic knockoff device for oil well pumping apparatus. C. A. McKay. 2,279,950; Apr. 14.
Automatic nailing machine. G. C. Paxton, G. M. Criger, and W. H. Paxton. 2,279,638; Apr. 14.
Automobile body heater. L. M. Payne. 2,279,489; Apr. 14.
Bag closing and sealing machine. H. V. Kindseth. 2,279,328; Apr. 14.
Bag filling apparatus. E. R. Ringmarck. 2,279,640; Apr. 14.
Bar aligning control, Leader. J. G. Jones and M. P. Davis. 2,279,467; Apr. 14.
Battery. J. Hilger and J. F. Macholl. 2,279,318; Apr. 14.
Battery making method. J. Hilger and J. F. Macholl. 2,279,317; Apr. 14.
Bearing. A. N. Porter. 2,279,719; Apr. 14.
Bed structure, Posture. R. R. Freund. 2,279,307; Apr. 14.
Bedding for poultry and animals. C. D. Laughlin. 2,279,405; Apr. 14.
Bench, E. L., Johnson. 2,279,946; Apr. 14.
Binder locking mechanism. E. A. Koelling. 2,279,503; Apr. 14.
Biscuit cutting and panning machinery. W. A. Thuin. 2,279,420; Apr. 14.
Blocking plate, Corner. W. W. Lemen and A. P. Offutt. 2,279,755; Apr. 14.
Board: *See*—
Spotting board.
Boat, Speed. P. F. Lapidovsky. 2,279,827; Apr. 14.
Boiler: *See*—
Water tube boiler.
Bolster centering device. R. Leppla. 2,279,793; Apr. 14.
Bottle cooler, Dry storage. C. F. Munshower. 2,279,483; Apr. 14.
Bottle holder, Collapsible. J. B. Burns and T. L. Keith. 2,279,442; Apr. 14.
Box. G. F. Ford, B. R. Lewis, and W. F. Pittman. 2,279,670; Apr. 14.
Brake and accelerator pedal, Combined heel. J. C. Harkness. 2,279,458; Apr. 14.
Brake control apparatus. E. E. Hewitt. 2,279,398; Apr. 14.
Brake control device. J. W. Logan, Jr. 2,279,433; Apr. 14.
Brake control means. B. S. Aikman. 2,279,432; Apr. 14.
Brake control means. C. C. Farmer. 2,279,452; Apr. 14.
Brake control system, Locomotive. C. C. Farmer. 2,279,392; Apr. 14.
Brake equipment, Locomotive. G. T. McClure. 2,279,393; Apr. 14.
Brake for revolving machine parts. H. Brandenburg and K. Bienert. 2,279,775; Apr. 14.
Brake testing apparatus. A. N. Milster and J. C. Cox. 2,279,409; Apr. 14.
Bread making. F. C. Weber. 2,280,031; Apr. 14.
Breech mechanism for ordnance. V. C. E. Marten-Gwilliam. 2,279,692; Apr. 14.
Brushing apparatus. F. J. Wood. 2,279,608; Apr. 14.
Buckle. I. J. Katz. 2,279,738; Apr. 14.
Building structure. W. J. McDermott. 2,279,873; Apr. 14.
Bulldozer and ripper, Combination. G. R. Houston. 2,279,869; Apr. 14.
Cable connector. W. J. Busse, F. Wallace, and A. W. Lanham. 2,280,027; Apr. 14.
Cable laying implement. T. M. Thomas, C. H. Russell, and O. P. Robb. 2,280,014; Apr. 14.
Calculating machine. G. S. Christie. 2,279,444; Apr. 14.
Calculating machine. C. M. F. Friden. 2,279,455; Apr. 14.
Calculating machine. C. M. Friden and J. L. Moody. 2,279,456; Apr. 14.
Calculating machine. A. B. Machado. 2,279,474; Apr. 14.
Calculating machine switch. J. L. Moody. 2,279,480; Apr. 14.
Calculating machine. J. L. Moody. 2,279,481; Apr. 14.
Can. A. L. Forsberg. 2,279,668; Apr. 14.
Can body. A. L. Forsberg. 2,279,667; Apr. 14.
Canning machine, Produce. M. C. Gordon. 2,279,371; Apr. 14.
Cap for spray guns, Protective. A. Eppler, Jr. 2,279,391; Apr. 14.
Capsule making machine. E. A. Ravenscroft. 2,279,505; Apr. 14.
Car: *See*—
Refrigerating car.
Carburetor. G. V. Lehew. 2,279,626; Apr. 14.
Card index. C. E. Attwood. 2,279,702; Apr. 14.
Case: *See*—
Cigarette case.
Cigarette package case.
Pin case.
Refrigerated display case.
Cash register. E. Breitling, G. Topel, and O. Philipp. 2,279,858; Apr. 14.
Cash register. F. R. Werner. 2,279,805; Apr. 14.

Catalytic conversion of hydrocarbons. W. E. Bradley and J. L. Volz. 2,279,703; Apr. 14.
Cellulosic structure and making same. F. T. Peters. 2,279,339; Apr. 14.
Chain tightener. A. R. Askue. 2,280,021; Apr. 14.
Chair: *See*—
Easy chair.
Chair and bed, Combination. T. F. Webster. 2,279,852; Apr. 14.
Chair canopy, Foldable. F. Deak. 2,279,749; Apr. 14.
Chamber, Coking. L. W. Robbie. 2,279,524; Apr. 14.
Changeable indicator. J. P. McMullin. 2,279,836; Apr. 14.
Cheese cover. J. A. Spooner. 2,280,011; Apr. 14.
Chemical heating composition. S. Grant. 2,279,589; Apr. 14.
Chemical synthesis with electric precipitation. G. Slayter. 2,279,583; Apr. 14.
Chlorides of carboxylic acid, Manufacture of. C. Graenacher and C. Rossi. 2,279,985; Apr. 14.
Chute, Coin. W. Patzer and W. A. Tratsch. 2,279,488; Apr. 14.
Cigarette case. W. H. St. Thomas. 2,279,696; Apr. 14.
Cigarette package case. F. W. Bryant. 2,279,614; Apr. 14.
Circuit: *See*—
Electric wave circuit.
Wave control and control circuit.
Circuit alarm, Closed. W. Fountain. 2,279,394; Apr. 14.
Circuit breaker protective system. O. S. Jennings. 2,279,737; Apr. 14.
Circuit organization for piezo-electric pickup. E. Severin and O. Brünnert. 2,279,500; Apr. 14.
Circuit interrupting apparatus. G. F. McMahon. 2,279,631; Apr. 14.
Clamp: *See*—
Line clamp. Pipe cleaner clamp.
Clamp. W. J. Schreiner. 2,279,642; Apr. 14.
Clamping belt for connecting tapping machines to mains. F. H. Mueller and W. J. Bowan. 2,279,636; Apr. 14.
Cleaner: *See*—
Windshield cleaner.
Cleaning and painting, Method and apparatus for. W. L. Kerlin. 2,279,686; Apr. 16.
Cleaning composition. H. A. Seran. 2,279,532; Apr. 14.
Cleaning device. W. A. Kraner. 2,279,922; Apr. 14.
Clinchnut and making. C. T. Langmaid. 2,279,574; Apr. 14.
Clinker tongs. J. F. Apfel. 2,279,809; Apr. 14.
Clip: *See*—
Conduit supporting clip. Security clip.
Partition clip. Supporting clip.
Clip for self aligning shingles, Corrugated. R. Hayes and J. Slater. 2,279,943; Apr. 14.
Closure testing device. M. A. Weckerly. 2,279,698; Apr. 14.
Clothes line pin. C. E. Wisecup. 2,279,934; Apr. 14.
Clothespin. I. Harter. 2,279,460; Apr. 14.
Clutch. N. F. Adamson. 2,279,700; Apr. 14.
Clutch mechanism. M. B. Cameron. 2,279,365; Apr. 14.
Coated product. F. K. Bolton. 2,279,774; April 14.
Coating process. P. R. Austin. 2,279,771; Apr. 14.
Coatings to webs, Method and apparatus for applying. R. H. Bradt. 2,279,553; Apr. 15.
Coccidiosis control. W. H. Tisdale. 2,279,421; Apr. 14.
Cocking mechanism. W. Summerbell. 2,279,352; Apr. 14.
Coded track circuit signaling system. L. Girardin. 2,279,981; Apr. 14.
Coil, Electric. C. Niemann. 2,279,581; Apr. 14.
Coin controlled mechanism. F. C. Du Grenier. 2,279,664–5; Apr. 14.
Coin slide. W. Patzer and W. A. Tratsch. 2,279,487; Apr. 14.
Color process using cellulose ester emulsions. J. A. Leermakers and S. S. Fierke. 2,279,406; Apr. 14.
Compressed air intensifier. G. N. Cadbury. 2,279,364; Apr. 14.
Compressor control means. B. S. Aikman. 2,279,431; Apr. 14.
Concrete block machine. G. W. Kramer. 2,279,889; Apr. 14.
Condenser: *See*—
Electrical condenser. Tape condenser.
Conduit supporting clip. H. R. Ellinwood. 2,279,866; Apr. 14.
Connector: *See*—
Cable connector. Hose connector.
Electrical connector. Wire connector.
Connector device. L. M. Keefe. 2,279,824; Apr. 14.
Connector for electrical conductors. W. A. Heinrich. 2,279,677; Apr. 14.
Connector for shaker conveyers. J. A. MacPherson and E. Lasnik. 2,279,923; Apr. 14.
Contact lenses, Fitting of. G. Nissel. 2,279,795; Apr. 14.
Container: *See*—
Key container. Match book container.
Container. E. R. Crebbs. 2,279,658; Apr. 14.
Container. A. B. Kehr. 2,279,327; Apr. 14.
Container adapter for spray guns. C. F. Noth. 2,279,927; Apr. 14.
Container and distributor of lip staining material. J. Fogarty. 2,279,781; Apr. 14.
Container construction and making the same, Skived. H. F. Waters. 2,279,358–9; Apr. 14.
Container support. J. H. Snyder and R. S. Woodburn, Jr. 2,279,558; Apr. 14.
Continuous furnace. D. Edge. 2,279,917; Apr. 14.
Control apparatus. R. W. Ross. 2,279,528; Apr. 14.
Control device. P. S. Russel. 2,279,582; Apr. 14.
Control device for hydraulic lines. G. A. Kane. 2,279,571; Apr. 14.
Control system. W. V. Hobbs. 2,279,888; Apr. 14.
Controlling means for hoists and winches. J. F. Selmer. 2,279,597; Apr. 14.
Conveyer. A. De L. Sinden. 2,279,862; Apr. 14.
Conveyer for coated pipe. W. R. Postlewaite. 2,279,340; Apr. 14.
Conveyer system. E. C. Lang. 2,279,573; Apr. 14.
Conveying device. C. V. Newlin. 2,279,837; Apr. 14.
Cooler: *See*—
Bottle cooler.
Cooling system for vapor lamps. C. R. Dunham and V. J. Francis. 2,279,941; Apr. 14.
Copolymers of butadienes with unsaturated alcohol esters of acrylic acids. A. M. Clifford. 2,279,293; Apr. 14.
Corn popper. W. E. Gundelfinger. 2,279,750; Apr. 14.
Corrosion preventive. R. G. Larsen. 2,279,688; Apr. 14.
Cotton picking machine. W. N. Smith. 2,279,598; Apr. 14.
Counting mechanism. K. C. Bugg. 2,279,556; Apr. 14.
Couplers combined with hardening agents. W. D. Peterson. 2,279,411; Apr. 14.
Coupling: *See*—
Fluid coupling. Impulse coupling.
Hose coupling.
Coupling transformer, Variable. G. M. Guarnieri and G. Calleti. 2,280,001; Apr. 14.
Cover: *See*—
Cheese cover.
Cover for automobile bodies, Protective. F. Bartlett. 2,279,812; Apr. 14.
Cowling fastener. W. O. Reeser. 2,279,343; Apr. 14.
Cream separator. W. C. Teunisz. 2,279,418; Apr. 14.
Crochet hook. E. G. and H. C. Neuschwanger. 2,279,926; Apr. 14.
Cuff guard and form protector. R. A. Dillon. 2,279,663; Apr. 14.
Cultivating apparatus. J. H. Rooks. 2,280,008; Apr. 14.
Cutter: *See*—
Staple fiber cutter.
Cutting tool. J. J. Gillich. 2,279,979; Apr. 14.
Cycloalkanes, Preparing. W. Schmidt, F. J. Pohl, and O. Nicodemus. 2,279,721; Apr. 14.
Cylinder liner. H. Ford. 2,279,671; Apr. 14.
Cylinders, Making lightweight. S. E. Allen. 2,279,726; Apr. 14.
Cystoscope. W. Meyerhof and M. Trabulsi. 2,279,714; Apr. 14.
Damper with minimum draft control, Furnace. C. G. Anderson. 2,279,610; Apr. 14.
Date indicator. G. E. Kroll. 2,279,790; Apr. 14.
Denture mold. W. J. Pryor. 2,279,952; Apr. 14.
Denture, Partial. C. N. Skinner. 2,279,351; Apr. 14.
Desuifurization of alkyl phenols. D. B. Luten, Jr., and A. De Benedictis. 2,279,711; Apr. 14.
Detergent composition. L. F. Henderson and B. L. Maxwell. 2,279,314; Apr. 14.
Detonators, Manufacture and packeting of. C. R. Johnson and E. H. Baughman. 2,279,323; Apr. 14.
Detoxicant and producing same. M. Crosse. 2,279,879; Apr. 14.
Device for shaker conveyers, Self-loading. L. D. Hagenbook. 2,280,043; Apr. 14.
Diamond-polishing wheel. J. Dinhofer. 2,279,940; Apr. 14.
Dilatometer. H. W. Dietert. 2,279,368; Apr. 14.
Direction signal. B. E. White. 2,279,606; Apr. 14.
Discharge device and making. J. Lempert and N. H. Stewart. 2,279,831; Apr. 14.
Discharge shutter for blowers. A. E. Voysey. 2,279,425; Apr. 14.
Discharge system, Electric. W. H. Bennett. 2,279,586; Apr. 14.
Dish washing machine. H. H. Fisher. 2,279,619; Apr. 14.
Disks, Dressing grinding. A. Rickenmann. 2,279,523; Apr. 14.
Dispenser: *See*—
Liquid dispenser. Mail dispenser.
Display and conditioning stand, Vegetable. V. A. Peterson. 2,279,521; Apr. 14.
Distance and height meter. A. J. Janssen. 2,279,321; Apr. 14.
Distillation, Process for. S. C. Smith and R. T. Van Ness. 2,279,764; Apr. 14.
Door: *See*—
Swinging door.
Drawing apparatus for flyer frames. C. Schiesser. 2,279,797; Apr. 14.
Drawing strip, Method and apparatus. A. Simons. 2,279,415; Apr. 14.
Drilling and tapping machine, Combined. C. O. Holland, R. T. Vrokaw, and E. F. Lundeen. 2,279,462; Apr. 14.
Drilling hook. R. K. Hertel. 2,279,315; Apr. 14.

Drinking tube. C. Hanson, Jr. 2,279,396; Apr. 14.
Dry cell. H. E. Lawson. 2,279,575; Apr. 14.
Dusting apparatus. R. R. Root. 2,279,495; Apr. 14.
Easy chair, Collapsible. F. Deak. 2,279,748; Apr. 14.
Electric and fluid pressure brake control. J. C. McCune. 2,279,407; Apr. 14.
Electric converting system. B. D. Bedford. 2,279,729; Apr. 14.
Electric current rectifier of the selenium type, Alternating. L. E. Thompson and A. Jenkins. 2,279,746; Apr. 14.
Electric blaster initiator. M. H. English and R. R. Nydegger. 2,279,451; Apr. 14.
Electric circuit breaker. H. Thommen. 2,279,536; Apr. 14.
Electric discharge lamp. D. W. Atchley, Jr. 2,279,907; Apr. 14.
Electric iron construction. G. S. Braun. 2,279,731; Apr. 14.
Electric motor, Alternating current. N. Japolsky. 2,279,402; Apr. 14.
Electric outlet. G. H. Von Gehr. 2,279,383; Apr. 14.
Electric shaver. H. W. Baker. 2,279,363; Apr. 14.
Electric shaver. E. G. Hines. 2,279,373; Apr. 14.
Electric wave circuit. R. K. Honaman. 2,279,319; Apr. 14.
Electrical apparatus. P. D. Crout. 2,279,303; Apr. 14.
Electrical condenser. J. A. Kater. 2,279,826; Apr. 14.
Electrical connector. E. R. Olson. 2,279,794; Apr. 14.
Electrical device for indicating or determining distance. K. Secretan and J. Horsfall. 2,279,695; Apr. 14.
Electrical insulating materials. T. R. Scott and A. A. New. 2,279,762; Apr. 14.
Electrical signaling system. T. B. D. Terroni. 2,279,697; Apr. 14.
Electromagnetic devices, Control of. A. R. Van C. Warrington. 2,279,849; Apr. 14.
Electron discharge device. J. W. McRae. 2,279,835; Apr. 14.
Electron emissive electrode, Secondary. C. A. Hedberg and J. O. McNally. 2,279,821; Apr. 14.
Electronic modulation for constant frequency variable dot transmission. R. E. Shelby. 2,279,930; Apr. 14.
Electrostatic coating process. J. O. Amstuz. 2,279,361; Apr. 14.
Elevator, Mobile. R. G. Le Tourneau. 2,279,832; Apr. 14.
Emulsions with constant viscosity, Resin. H. C. Cheetham and R. J. Myers. 2,279,387; Apr. 14.
End liner for grinding mills. M. L. Rahner. 2,279,639;
Engine: *See*—
Internal combustion engine.
Eraser, Blackboard. E. N. Darling. 2,279,559; Apr. 14.
Exchange system, Telegraph. W. B. Blanton. 2,279,295; Apr. 14.
Exudate trap for shells. W. O. Snelling. 2,279,416; Apr. 14.
Fabric: *See*—
Knitted pile fabric.
Fastener: *See*—
Cowling fastener.
Fastener member and fastener installation. S. M. Del Camp. 2,279,916; Apr. 14.
Fastening device for suitcases. F. W. Magnuson. 2,279,757; Apr. 14.
Fastening means for cartons or the like. E. R. Witherspoon. 2,279,356; Apr. 14.
Feeder: *See*—
Reagent feeder.
Ferromanganese, Production of. J. C. Vignos. 2,280,041; Apr. 14.
Fertilizer distributor. J. Blue. 2,279,613; Apr. 14.
Filing rack, Collapsible. G. R. Eide. 2,279,864; Apr. 14.
Film handling apparatus. R. S. Hopkins. 2,279,463; Apr. 14.
Film viewing apparatus, Stereoscopic. A. Boch. 2,279,967; Apr. 14.
Filter. E. L. Oliver. 2,279,838; Apr. 14.
Filter. C. G. Vokes. 2,279,423; Apr. 14.
Finger holder for sheet material. M. R. Brubaker. 2,279,554; Apr. 14.
Filter cartridge mounting. T. E. Aldham. 2,280,033; Apr. 14.
Finishing apparatus, Surface. B. F. Fowler. 2,279,782–3; Apr. 14.
Fire escape. H. N. Patterson. 2,279,594; Apr. 14.
Fire screen. C. G. Lamb. 2,279,791; Apr. 14.
Firearm, Takedown. C. G. Swebilius. 2,279,931; Apr. 14.
Fishing reel. W. G. Balz. 2,279,434; Apr. 14.
Flame hardening control. J. J. Crowe. 2,280,029; Apr. 14.
Flashlight lamp. P. Schwarze. 2,280,048; Apr. 14.
Flashlight synchronizing device. J. W. Gillon. 2,279,370; Apr. 14.
Floor rack. E. W. Zane. 2,279,545; Apr. 14.
Fluid coupling. W. A. Duffield. 2,280,042; Apr. 14.
Fluid coupling balancing. S. T. Foresman and W. A. Hunter. 2,279,977; Apr. 14.
Fluid drive. C. A. Neracher. 2,280,002; Apr. 14.
Fluid meter. M. C. White, F. C. Sutliffe, and R. Ashley. 2,279,607; Apr. 14.
Flux. J. Fletcher. 2,279,565; Apr. 14.
Flux and using the same, Metallurgical. L. W. Chantler. 2,279,617; Apr. 14.
Flux, Soldering. L. Liberthson. 2,279,828; Apr. 14.
Form, Coat and shirt display. B. Oestricher. 2,279,517; Apr. 14.
Frame: *See*—
Spinning and twisting frame. Vehicle frame.
Frame construction for vehicle bodies, especially for over-engine cab. F. J. Westrope. 2,279,806; Apr. 14.
Frame fabricating machine. F. Y. Pearne. 2,279,490; Apr. 14.
Frame for machine guns. J. C. Trotter. 2,279,601; Apr. 14.
Frequency modulator. M. G. Crosby. 2,279,659; Apr. 14.
Friction absorbing device. R. B. Cottrell. 2,279,914; Apr. 14.
Fuel, Means for preparing combustible. H. W. Smith. 2,279,530; Apr. 14.
Fuel mixer. R. A. Carroll. 2,279,776; Apr. 14.
Furnace: *See*—
Air heating furnace. Tunnel furnace.
Continuous furnace.
Furnace for heat treating wire. C. D. Johnson. 2,279,684; Apr. 14.
Furnace process, Blast. C. G. Hogberg and G. E. Steudel. 2,279,399; Apr. 14.
Furnace wall construction. L. H. Hosbein. 2,279,515; Apr. 14.
Furnace wall tie. A. K. Spalding. 2,279,644; Apr. 14.
Fuse box and entrance switch. B. E. Shaw. 2,279,744; Apr. 14.
Fuse construction. S. I. Lindell and A. Van Ryan. 2,279,627; Apr. 14.
Game, Racing. P. S. Millar and P. Garms. 2,280,000; Apr. 14.
Garment hanger. A. L. Dean. 2,279,777; Apr. 14.
Garment pressing machine. W. Strobridge. 2,279,599; Apr. 14.
Gas indicator, Combustible. R. E. Hartline. 2,279,397; Apr. 14.
Gases, Conditioning of R. B. P. Crawford. 2,279,938; Apr. 14.
Gasket. L. H. Diehl. 2,279,450; Apr. 14.
Gate or the like, Self-closing. J. Rosheim. 2,279,527; Apr. 14.
Gear finishing machine. E. W. Miller. 2,280,045; Apr. 14.
Gear shifting mechanism. S. M. Nampa. 2,280,047; Apr. 14.
Gear transmission, Sliding. O. and H. O. Kylin. 2,279,710; Apr. 14.
Generator: *See*— Ultra-short-wave-generator.
Motor generator.
Glass, Feeding molten. G. T. Meyers. 2,280,036; Apr. 14.
Glycerol dichlorhydrin. E. C. Britton and H. R. Slagh. 2,279,509; Apr. 14.
Governor for power engines. O. Petersen. 2,279,491; Apr. 14.
Grab hoist. J. R. Taylor. 2,279,722; Apr. 14.
Grabhooks. J. Kamppi. 2,279,570; Apr. 14.
Grading machine. E. M. Keen. 2,279,947; Apr. 14.
Grinder. H. H. Roake. 2,279,494; Apr. 14.
Grinding disk. A. H. Graenser. 2,279,673; Apr. 14.
Guard for highways. H. Hausherr. 2,279,942; Apr. 14.
Guard for pneumatic chipping hammers and the like, Safety. S. Plateck. 2,280,007; Apr. 14.
Gun, Puffing. H. L. Hayden. 2,279,868; Apr. 14.
Gun rack. L. Kaldizar. 2,279,325; Apr. 14.
Hair curler. E. Kantor. 2,279,996; Apr. 14.
Hair net. E. Berg. 2,279,435; Apr. 14.
Hair net. I. Falk. 2,279,867; Apr. 14.
Hair waving device. E. Kantor. 2,279,997; Apr. 14.
Hammer, Stapling. D. R. LaPlace. 2,279,624; Apr. 14.
Handle fastening device. A. D. Jones. 2,279,995; Apr. 14.
Handle for containers. K. O. Oliver. 2,279,717; Apr. 14.
Hanger. *See*—
Garment hanger.
Hanger. C. F. Pease. 2,279,760; Apr. 14.
Head stitcher and punch, Multiple. R. G. Hoffert. 2,279,679; Apr. 14.
Heat exchange apparatus. R. A. Bowman. 2,279,552; Apr. 14.
Heat exchanger for machine tools. A. F. Jelinek and W. E. Gross. 2,279,569; Apr. 14.
Heater: *See*—
Automobile body heater. Space heater.
Heating installation. C. P. Benson. 2,279,772; Apr. 14.
Heel. J. A. Maselter. 2,279,891; Apr. 14.
Heel construction. L. E. Sauer and H. N. Pearson. 2,279,894; Apr. 14.
Heel-shaping machine. C. Straw. 2,279,876; Apr. 14.
Hemming attachments for sewing machines. J. P. Enos. 2,279,588; Apr. 14.
Hinge construction. C. C. Jackson and I. E. Johnson. 2,279,992; Apr. 14.
Hobby horse, Progressive. R. W. Angert. 2,279,963; Apr. 14.

Hoist, Portable. F. L. White. 2,279,853; Apr. 14.
Holder: *See*—
Arrow holder. Tool holder.
Bottle holder.
Holder means for hosiery, Sorting. E. R. Ammon. 2,279,897; Apr. 14.
Hook: *See*—
Crochet hook. Drilling hook.
Hook for knitting machines, Welt. K. Howie. 2,279,736; Apr. 14.
Horse training apparatus. C. W. Vogt and E. E. Lakso. 2,279,539; Apr. 14.
Hose connector. S. B. Beugler. 2,279,437; Apr. 14.
Hose coupling. H. N. Cross. 2,279,733; Apr. 14.
Hosiery protector. L. J. Finnan, Jr. 2,279,453; Apr. 14.
Housings, Making insulating. G. F. McMahon. 2,279,630; Apr. 14.
Humidifier. R. W. Bulkley. 2,279,966; Apr. 14.
Hydraulic control system. M. Partiot. 2,279,378; Apr. 14.
Hydraulic force transmission for weighing scales. R. S. Bohannan. 2,279,912; Apr. 14.
Hydrocarbon conversion. G. B. Zimmerman. 2,279,547; Apr. 14.
Hydrostatically operated setting tool. M. L. Hart. 2,279,676; Apr. 14.
Hygrometer, Making. G. E. Barnhart. 2,279,611; Apr. 14.
Ice cubing machine. J. F. Turner and C. P. Breidenbaugh. 2,280,049; Apr. 14.
Igniting means for fuel-air burners. S. Ziegler. 2,279,546; Apr. 14.
Ignition system for internal combustion engine. P. L. Kite and R. E. La Mondia. 2,279,709; Apr. 14.
Image, Manual mechanical. E. P. Wallis. 2,279,603; Apr. 14.
Impulse coupling. E. A. Vogel. 2,279,538; Apr. 14.
Impulse transmitter. A. Weaver. 2,279,360; Apr. 14.
Incinerator in combination with latrines or the like. H. G. Martin. 2,279,577; Apr. 14.
Indicating device for roll film cameras. A. Nagel. 2,279,715; Apr. 14.
Indicating mechanism. R. A. Bossi. 2,279,551; Apr. 14.
Indicator: *See*—
Changeable indicator. Motor vehicle turn indicator.
Date indicator.
Gas indicator. Turn indicator.
Injecting method and means for molding thermoplastic materials. J. S. Reid. 2,279,344; Apr. 14.
Insomerizing hydrocarbons. H. A. Cheney. 2,279,291–2; Apr. 14.
Installing cooling device in welding electrodes. E. J. von Henke. 2,279,932; Apr. 14.
Instrument, Fluid pressure. W. O. Davis. 2,279,861; Apr. 14.
Insulator, Bushing. T. F. Brandt. 2,280,032; Apr. 14.
Internal combustion engine. B. Read. 2,279,413; Apr. 14.
Internal fitting for containers. W. Walsh. 2,279,427; Apr. 14.
Internal fitting for hollow containers. W. Walsh. 2,279,428; Apr. 14.
Internal fitting for jars, bottles, cans, boxes, showcases, and other hollow containers. W. Walsh. 2,279,426; Apr. 14.
Interpolymers of dibenzyl itaconate and ethyl metacrylate. G. F. D'Alelio. 2,279,884; Apr. 14.
Interpolymers of dihexyl itaconate and ethyl methacrylate. G. F. D'Alelio. 2,279,883; Apr. 14.
Interpolymers of di-(isobutyl carbinol) itaconate and ethyl methacrylate. G. F. D'Alelio. 2,279,885; Apr. 14.
Interpolymers of di-(methoxyethyl) itaconate and ethyl methacrylate. G. F. D'Alelio. 2,279,882; Apr. 14.
Interpolymer of di(secondary butyl) itaconate and ethyl methacrylate. G. F. D'Alelio. 2,279,881; Apr. 14.
Jar closure. J. K. Hotchkiss. 2,279,991; Apr. 14.
Joint for rotary drilling, Swivel. C. E. Casperson. 2,279,969; Apr. 14.
Journal box lid. H. J. Horn. 2,279,823; Apr. 14.
Key container. A. J. Dieckmann. 2,279,449; Apr. 14.
Key, Expanding pole. E. M. Fee and C. R. Murrie. 2,279,918; Apr. 14.
Knife. E. K. Madan. 2,279,833; Apr. 14.
Knitted pile fabric. H. Fleisher. 2,279,919; Apr. 14.
Labeling device. E. L. Smith and E. A. Van Wart. 2,279,844; Apr. 14.
Labels and machine for applying labels, Applying. G. W. von Hofe. 2,279,724; Apr. 14.
Labels, Making. A. C. McCrum. 2,279,949; Apr. 14.
Lacquer composition. W. D. Bowlby. 2,279,439; Apr. 14.
Ladder. J. E. King. 2,279,329; Apr. 14.
Lamp: *See*—
Electric discharge lamp. Luminous vapor lamp.
Flashlight lamp. Photoflash lamp.
Lamp. H. I. Albright. 2,279,770; Apr. 14.
Lamp and manufacture, Incandescent electric. S. H. Newton. 2,279,871; Apr. 14.
Lantern. A. J. Schipper. 2,279,596; Apr. 14.
Latch: *See*—
Night latch.
Latrine. H. G. Martin. 2,279,578; Apr. 14.
Lens mount. J. Mihalyi. 2,279,476; Apr. 14.
Lifting device. A. Jackson. 2,279,465; Apr. 14.
Light control device. T. A. DiMartile. 2,279,939; Apr. 14.
Light for electric razors. R. V. Powell. 2,279,341; Apr. 14.
Lighting fixture. P. D. Phillips. 2,279,595; Apr. 14.
Lighting fixture. A. C. Wells. 2,279,933; Apr. 14.
Limb, Artificial. C. Woodall. 2,279,962; Apr. 14.
Line clamp. J. L. Yonkers. 2,279,807; Apr. 14.
Liquefied gas odorizer and using the same. W. C. Dayhuff. 2,279,705; Apr. 14.
Liquid cooling and display device. T. G. McClanahan. 2,279,629; Apr. 14.
Liquid dispenser, Coin controlled. C. D. Wood. 2,279,650; Apr. 14.
Liquid dispensing and applying device, Combined. T. Huston. 2,279,320; Apr. 14.
Lock. H. Machinist. 2,279,592; Apr. 14.
Lock nut and making the same. J. F. Cox. 2,279,388; Apr. 14.
Lock switch. E. N. Jacobi. 2,279,623; Apr. 14.
Loom inspection device. J. H. Moore. 2,279,759; Apr. 14.
Luminous vapor lamp. J. Morley. 2,279,635; Apr. 14.
Machine for heel breasting. E. E. Winkley. 2,279,430; Apr. 14.
Machine for making and collapsing paper boxes, Method and. M. H. Sidebotham and R. A. Himes. 2,279,534; Apr. 14.
Machine for roasting or drying powdered, granular, or like material. G. R. Baker. 2,279,362; Apr. 14.
Machines for conveying balls. W. E. Humphrey. 2,279,921; Apr. 14.
Magnesium base alloy. J. C. McDonald. 2,279,712; Apr. 14.
Magneto-strictive oscillator. U. John. 2,279,322; Apr. 22.
Mail box or other support. F. P. Hurd. 2,279,622; Apr. 14.
Mail dispenser. M. H. Silver. 2,279,643; Apr. 14.
Manicure device. W. E. Shore. 2,279,533; Apr. 14.
Map, Relief. H. L. Cooke. 2,279,446; Apr. 14.
Marble shooter. L. B. Truesdell. 2,279,766; Apr. 14.
Masking metal sheets and the like. F. W. Humphner. 2,279,680; Apr. 14.
Masses, Production of moldable artificial. F. Pollak. 2,279,743; Apr. 14.
Mat. A. R. Hendry. 2,279,944; Apr. 14.
Match book container. D. P. Ross and J. J. Sheridan. 2,279,893; Apr. 14.
Material feeding means. H. L. Merrick. 2,279,475; Apr. 14.
Material, Preparation of fluorescent coating. W. L. Sullivan. 2,279,877; Apr. 14.
Mattress, Sanitary. C. Fuchs. 2,279,886; Apr. 14.
Measuring spout. W. Ballard. 2,279,728; Apr. 14.
Member for wheel, Ornamental. G. A. Lyon. 2,279,331; Apr. 14.
Metal bending machine. R. V. Carter. 2,279,654; Apr. 14.
Metal forming machine. H. A. Berliner. 2,279,964; Apr. 14.
Metal forming machine. H. A. Berliner and C. De Boer. 2,279,965; Apr. 14.
Metal, Method and apparatus for drawing. A. Simons. 2,279,347–50; Apr. 14.
Metal plating bath and plating. J. J. Murray. 2,279,830; Apr. 14.
Metal producing apparatus. R. K. Hopkins. 2,279,990; Apr. 14.
Metal rolling. J. H. McElhinney. 2,279,579; Apr. 14.
Meter: *See*—
Distant and height meter. Fluid meter.
Microscopic carriage. V. M. Posada. 2,279,412; Apr. 14.
Milk container and internal closure or separator. W. C. Teunisz. 2,279,419; Apr. 14.
Mineral oil products, Treatment of. E. Hene. 2,279,461; Apr. 14.
Mineral separator. J. C. Shannon. 2,279,895; Apr. 14.
Mixer: *See*—
Fuel mixer.
Mold: *See*—
Denture mold.
Mold gating, Injection. J. S. Reid. 2,279,380; Apr. 14.
Mold inhibitive cellulosic structure. W. J. Jebens. 2,279,788; Apr. 14.
Mold lubricant. R. A. Crawford. 2,279,859; Apr. 14.
Molding cellulosic structures, Method and apparatus for. T. F. Banigan and O. E. Snyder. 2,280,022; Apr. 14.
Molding compound. F. J. Groten and J. H. Lower. 2,279,512; Apr. 14.
Motor: *See*—
Electric motor.
Motor generator, Combination. Z. T. Lindsey. 2,279,690; Apr. 14.
Motor vehicle. W. R. Griswold. 2,279,986; Apr. 14.
Motor vehicle. J. Kolbe. 2,280,044; Apr. 14.

Motor vehicle turn indicator. C. L. Helm. 2,279,400; Apr. 14.
Mounting: *See*—
Filter cartridge mounting.
Mounting and signal device for hand telephones, Combined. H. F. Obergfell. 2,279,485; Apr. 14.
Mounting for rotatable members, Adjustable. C. E. Hathorn. 2,279,887; Apr. 14.
Mower sharpening apparatus, Lawn. C. D. Shelburne. 2,279,798; Apr. 14.
Multi-part carrier blade for endless chain carriers and the like. E. A. Lerner. 2,279,689; Apr. 14.
Musical instrument. W. J. Owczynikow. 2,279,637; Apr. 14.
Necktie. A. Snyder and M. Solomon. 2,279,845; Apr. 14.
Needle, Rug. C. Denner. 2,279,662; Apr. 14.
Nicotinic acid amide, Preparation of. H. F. Seibert, L. J. Szabo, J. Wyeno, and E. R. Eckhardt. 2,280,040; Apr. 14.
Night latch. F. K. Heyer. 2,279,591; Apr. 14.
Nitrate, Preparation of urea. C. P. Spaeth. 2,279,765; Apr. 14.
Noise maker for hollow toys. J. F. Stanford. 2,279,799; Apr. 14.
Notching machine. J. W. and K. W. Ekstedt. 2,279,390; Apr. 14.
Numeral wheel. F. A. Niemann. 2,279,337; Apr. 14.
Nut locking device. J. E. Ilbery. 2,279,681; Apr. 14.
Nut member. F. E. Johnson. 2,279,903; Apr. 14.
Nut shelling machine. S. Guerra. 2,279,987; Apr. 14.
Oil composition, Mineral. O. M. Reiff and H. D. Hartough. 2,280,039; Apr. 14.
Oil production. A. Musher. 2,280,046; Apr. 14.
Oil refiner pack. A. R. White. 2,279,699; Apr. 14.
Oil, Viscose hydrocarbon. M. A. Dietrich. 2,279,560; Apr. 14.
Oil well choke valve. A. L. Stewart and C. M. Landermilk. 2,279,959; Apr. 14.
Oil well weighting materials, Making improved. L. R. Harrison, Jr. 2,280,034–5; Apr. 14.
Oils and residue from refining thereof, Separation of constituents of animal and vegetable. D. McDonald. 2,279,408; Apr. 14.
Oils, Dewaxing crude and refined petroleum. T. J. Brown. 2,279,937; Apr. 14.
Oils, Production of high-indene-content hydrocarbon. K. H. Engel. 2,279,778–80; Apr. 14.
Oils, Stabilization of viscose petroleum. M. A. Dietrich. 2,279,561; Apr. 14.
Olefine oxides, Making. G. H. Law and H. C. Chitwood. 2,279,470; Apr. 14.
Operating mechanism for double-acting automatic brake slack adjusters. B. H. Browall. 2,279,653; Apr. 14.
Optical image producing and viewing arrangement. C. O. Browne and H. E. Holman. 2,279,555; Apr. 14.
Organic materials and making same. E. E. Dreger, J. Ross, and H. G. Kirschenbauer. 2,279,734; Apr. 14.
Organic substances, Stabilization of. M. A. Dietrich. 2,279,973; Apr 14.
Ornmental trim ring. G. A. Lyon. 2,279,332; Apr. 14.
Osciliator, Diode. F. B. Llewellyn. 2,279,872; Apr. 14.
Outlet, Electrical convenience. J. F. O'Brien. 2,279,516; Apr. 14.
Oxides, Making olefine. G. H. Law and H. C. Chitwood. 2,279,469; Apr. 14.
Package. G. C. Laycock. 2,279,471; Apr. 14.
Package or container spacer block. S. Price. 2,279,522; Apr. 14.
Packages, Making. E. L. Smith and F. R. Clark. 2,279,842; Apr. 14.
Packaging. R. R. Richardson. 2,279,381; Apr. 14.
Packing arrangement. E. D. Dickinson. 2,279,814; Apr. 14.
Packing arrangement. J. M. Downer. 2,279,863; Apr. 14.
Packless valve. J. N. Paquin. 2,279,519; Apr. 14.
Pajamas. M. Wilker, S. Wilker, and H. Wilker. 2,280,017; Apr. 14.
Paper. W. W. Haynes. 2,279,988; Apr. 14.
Paper, Producing copying. R. Walti. 2,279,604; Apr. 14.
Partition clip, Counter-sham. O. Sliger. 2,279,957; Apr. 14.
Paste, Stencil. J. R. Sackett. 2,279,496; Apr. 14.
Pay out reel. F. Stasio. 2,280,012; Apr. 14.
Phenol-aldehyde condensation products with air-drying fatty oils, Combining hardenable. F. Seebach. 2,279,499; Apr. 14.
Phenolic resin, Soluble. I. Rosenblum. 2,279,526; Apr. 14.
Phenylenediamine derivatives, Process for purifying. M. R. Brimer. 2,279,385; Apr. 14.
Phonographs, Speaking tube handle for. L. D. Norton and J. M. Lucarelle. 2,279,796; Apr. 14.
Photoelectric exposure determining apparatus. H. F. Tonnies. 2,279,723; Apr. 14.
Photoflash lamp. M. J. N. de Margitta. 2,279,880; Apr. 14.
Photoflash synchronizing device. J. Mihalyi. 2,279,477; Apr. 14.
Photographic multicolor images, Material for producing. B. Gaspar. 2,279,309; Apr. 14.
Photographic objective. F. E. Altman. 2,279,384; Apr. 14.
Photographic objective. M. J. Herzberger. 2,279,372; Apr. 14.
Pin: *See*—
Clothes line pin.
Pin case. F. C. Wallace. 2,279,357; Apr. 14.
Pipe and tube bender. T. W. Delaney. 2,279,389; Apr. 14.
Pipe charger, Tobacco. R. C. Richey. 2,279,953; Apr. 14.
Pipe cleaner clamp. E. Von Von Horst and Le M. Strang. 2,279,769; Apr. 14.
Pipe threader, Adjustable. A. M. Stultz. 2,280,013; Apr. 14.
Pistol catapult. T. F. Gensmer. 2,279,457; Apr. 14.
Piston grinding machine. C. J. Green. 2,279,902; Apr. 14.
Pivot construction. J. W. Page. 2,279,839; Apr. 14.
Pneumatic conveying means. J. J. Ferlin. 2,279,306; Apr. 14.
Pocket, Garment. W. E. Cunningham. 2,279,972; Apr. 14.
Polyalkylene polyamines. A. F. Hardman. 2,279,294; Apr. 14.
Polyamides. H. B. Stevenson. 2,279,745; April. 14.
Polymeric materials. R. A. Jacobson. 2,279,752; Apr. 14.
Potentiometer. H. M. Dressel. 2,279,815; Apr. 14.
Power device. C. A. Brewer. 2,279,732; Apr. 14.
Power take-off for ground polverizers. A. M. Beard. 2,279,652; Apr. 14.
Power transmission. I. C. McKechnie. 2,279,999; Apr. 14.
Preheater for lighting and heating apparatus. M. Marowsky. 2,279,924; Apr. 14.
Preserving, Method of. R. H. Bedford. 2,280,024; Apr. 14.
Press: *See*—
Punch press. Vulcanizing press.
Pressure release closure device. S. R. Etnyre. 2,279,666; Apr. 14.
Printing telegraph apparatus. W. J. Zenner. 2,279,609; Apr. 14.
Propeller control, Variable pitch. G. A. Colley and J. H. Hammond, Jr. 2,279,301; Apr. 14.
Propeller, Variable pitch. A. J. Merickle. 2,279,633; Apr. 14.
Protector: *See*—
Cuff guard and form protector. Hosiery protector.
Protector mechanism for looms. A. S. Gutman. 2,279,675; Apr. 14.
Protein digestion. G. B. Ayres and J. G. Niedercorn. 2,279,908–11; Apr. 14.
Pump. B. F. Schmidt. 2,279,498; Apr. 14.
Pump. A. C. Sinclair. 2,279,645; Apr. 14.
Pump, compressor, or the like. G. A. Matteson, Jr. 2,279,740; Apr. 14.
Pump for internal combustion engines, Fuel supply. A. Cottman. 2,279,403; Apr. 14.
Punch press, Multiple. C. R. Stevens. 2,279,417; Apr. 14.
Putty plow. P. J. Anderson. 2,279,727; Apr. 14.
Pyridine, Recovering. M. D. Wald and F. A. Karnatz. 2,279,585; Apr. 14.
Rack: *See*—
Filing rack. Gun rack.
Floor rack.
Radio direction finder. F. Johnske and J. Rebmann. 2,279,466; Apr. 14.
Radio receiving and signaling system, Combination multichannel. E. M. Lurie. 2,279,739; Apr. 14.
Rail spike, Spring head. G. W. Muller. 2,279,482; Apr. 14.
Rail treatment. H. W. Nieman. 2,279,716; Apr. 14.
Ramp for automobiles. A. Jackson. 2,279,464; Apr. 14.
Razor, Mechanical. G. G. Going. 2,279,784; Apr. 14.
Reagent feeder. L. D. Mills. 2,279,758; Apr. 14.
Rear view mirror. E. E. Hensley. 2,279,751; Apr. 14.
Receptacle filling machine. C. H. Ayars. 2,279,651; Apr. 14.
Receptacles, Device for computing the contents of. R. H. Manning. 2,279,375; Apr. 14.
Record changer stop, Automatic. J. A. Wayn and R. L. Waln. 2,279,851; Apr. 14.
Reel: *See*—
Fishing reel. Pay out reel.
Refrigerated display case. C. F. Munshower. 2,279,484; Apr. 14.
Refrigerated display case, Sectional. C. Hoffman. 2,279,945; Apr. 14.
Refrigerating apparatus. C. A. Stickel. 2,279,535; Apr. 14.
Refrigeration apparatus. J. G. Walz. 2,279,804; Apr. 14.
Refrigerating car. H. Y. Stebbins. 2,279,847; Apr. 14.
Refrigeration device. L. F. Clerc. 2,279,558; Apr. 14.
Refrigerator, Domestic. M. G. Shoemaker. 2,279,928; Apr. 14.
Regulator: *See*—
Voltage regulator.
Relay. C. I. Baker. 2,279,811; Apr. 14.
Relay. L. E. Gardiner. 2,279,395; Apr. 14.
Relay. E. Lakatos. 2,279,404; Apr. 14.
Remote control apparatus. H. V. Alexandersson and C. E. Granqvist. 2,280,019; Apr. 14.

Resinous compositions. W. D. Bowlby. 2,279,438; Apr. 14.
Resistor. W. E. Clancy. 2,279,445; Apr. 14.
Ring: *See*—
Ornamental trim ring.
Ring for wheel, Ornamental trim. G. A. Lyon. 2,279,330; Apr. 14.
Rivet, Tire. C. Pfeifer. 2,280,006; Apr. 14.
Road vehicle. D. C. Rockola. 2,279,874; Apr. 14.
Roofing unit and assembly thereof. D. E. Gray. 2,279,674; Apr. 14.
Rubber condensation derivative composition, Holt melt. W. C. Calvert. 2,279,557; Apr. 14.
Rubber surfaces and product thereof, Treating. R. A. Crawford. 2,279,860; Apr. 14.
Running board for cars. L. J. Liberman. 2,279,756; Apr. 14.
Saddle. R. W. Faulhaber. 2,279,817; Apr. 14.
Safety device for boilers, Automatic. W. C. Faust. 2,279,976; Apr. 14.
Sash balance. D. Tappan. 2,279,600; Apr. 14.
Saw, Meat. A. N. Blum. 2,279,773; Apr. 14.
Saw attachment. F. J. Leverone. 2,279,576; Apr. 14.
Scaffold support. E. K. Vansickle. 2,279,850; Apr. 14.
Scale, Weighing. H. O. Hem. 2,279,678; Apr. 14.
Scale, Weighing. H. W. Hem. 2,279,706; Apr. 14.
Scraper, Fish. N. Kaplan. 2,279,685; Apr. 14.
Scraper, Floor. H. Fischer. 2,279,454; Apr. 14.
Screen: *See*—
Fire screen.
Screening structure, Balanced. G. A., G., and C. Overstrom. 2,279,742; Apr. 14.
Screw stick with stop. M. R. Hutchison, Jr. 2,279,401; Apr. 14.
Seals, Making. G. A. Freeman. 2,279,818; Apr. 14.
Securing means. W. Myers. 2,279,593; Apr. 14.
Security clip. A. R. Visitacion. 2,279,303; Apr. 14.
Segmental abrasive wheel for pulp grinding. L. A. Patt. 2,279,486; Apr. 14.
Separator: *See*—
Cream separator. Mineral separator.
Septic tank and grease trap, Combined. A. Bent. 2,279,813; Apr. 14.
Server. E. A. Calahan. 2,279,968; Apr. 14.
Shaft sealing unit. R. L. Friskney. 2,279,669; Apr. 14.
Shafting connection. H. E. Sipe. 2,279,954–6; Apr. 14.
Shape cutting machine. S. R. Oldham. 2,279,338; Apr. 14.
Sharpener, Crayon. O. L. Gerwig. 2,279,672; Apr. 14.
Sharpener for safety razor blades. C. Metzler. 2,279,634; Apr. 14.
Shaver, Shearing. J. A. Jackson. 2,279,682; Apr. 14.
Sheaves, Making. C. L. Eppler. 2,279,816; Apr. 14.
Sheep drenching apparatus. R. L. Robinson and R. L. Thompson. 2,279,840; Apr. 14.
Sheeting, Cellulosic derivative crepe. H. R. Childs. 2,279,366; Apr. 14.
Sheets, Formation of plastic. D. Domisi. 2,279,901; Apr. 14.
Sheets, Pack of transfer. J. Wilkes, Jr. 2,279,855; Apr. 14.
Shingle and making the same. G. E. Swenson. 2,279,382; Apr. 14.
Shock absorber strut or oleo leg for aircraft. L. E. Cowey. 2,279,447; Apr. 14.
Shock absorbing mechanism, Friction. H. Fuchs. 2,279,308; Apr. 14.
Shoe, Athletic. D. Morein. 2,279,951; Apr. 14.
Shoe filling machine. W. N. Bray and C. M. Bagshaw. 2,279,440; Apr. 14.
Shoes, Method of and apparatus for re-shaping. F. DeCurtis and F. DeVito. 2,279,304; Apr. 14.
Short-circuiting device. J. Catania. 2,279,655; Apr. 14.
Short wave system, Ultra. C. H. Brown. 2,280,026; Apr. 14.
Shoulder finishing apparatus. L. T. Ross. 2,279,641; Apr. 14.
Shoveling machine. E. B. Royle. 2,279,529; Apr. 14.
Sign. E. S. Smith and D. M. Meeker. 2,280,010; Apr. 14.
Sign and display device. E. G. Harris. 2,279,459; Apr. 14.
Signal: *See*—
Directional signal.
Signal detector, Frequency modulation. J. D. Reid. 2,279,506; Apr. 14.
Signal receiving system. G. W. Fyler. 2,279,819; Apr. 14.
Signal translating stage, Ultra-high-frequency. H. A. Wheeler. 2,279,543; Apr. 14.
Signaling apparatus. E. J. Agnew. 2,280,018; Apr. 14.
Signaling apparatus, Traffic actuated. H. A. Wilcox. 2,279,896; Apr. 14.
Signaling system. D. K. Gannett. 2,279,978; Apr. 14.
Signaling system, Electrical. E. B. Ireland and E. W. Jones. 2,279,568; Apr. 14.
Sleeve for children, Protective. H. and E. S. Bresnick. 2,279,296; Apr. 14.
Slicer, Bun. S. G. Marriott. 2,279,376; Apr. 14.
Slide closure. J. Laitman. 2,279,998; Apr. 14.
Slide fasteners, Manufacture of. F. Ulrich. 2,279,768; Apr. 14.
Slider for slide fastener, Locking. F. Ulrich. 2,279,767; Apr. 14.
Snap ring socket. D. I. Reiter. 2,279,720; Apr. 14.
Soap, Dispensing. G. D. Voorhis. 2,279,602; Apr. 14.
Socket device for lamps and the like. G. F. Cram. 2,279,915; Apr. 14.
Socket, Lamp. J. F. Cavanagh. 2,279,913; Apr. 14.
Space heater. R. B. Evans and E. F. Farrell. 2,279,974; Apr. 14.
Space heater. R. B. Evans. 2,279,975; Apr. 14.
Spade or shovel. J. Julien alias E. Pallen. 2,279,324; Apr. 14.
Spectral analyses, Device for making. F. P. Smith. 2,279,646; Apr. 14.
Speed limit control. S. E. Watterworth and A. A. Quirk. 2,279,429; Apr. 14.
Spinning and twisting frame. D. P. Tillinghast. 2,279,587; Apr. 14.
Spinning or twister rings, Vertically positioning. R. Hargreaves and A. O. Roy. 2,279,785; Apr. 14.
Spinning ring and traveler therefor. H. E. Herr and C. Fillinger. 2,279,707; Apr. 14.
Splicer for rubber thread. J. F. Cavanagh. 2,279,299; Apr. 14.
Splicing rubber thread. J. F. Cavanagh. 2,279,300; Apr. 14.
Spotting board. D. O. Goodwin. 2,279,984; Apr. 14.
Spring for cushioned backs of upholstered furniture, Wire. W. H. Neely. 2,279,336; Apr. 14.
Stabilization of insecticides. W. P. ter Horst. 2,279,800; Apr. 14.
Staple fiber cutter. T. R. O'Malley. 2,279,718; Apr. 14.
Stapling machine. M. Vogel. 2,279,584; Apr. 14.
Steel retainer. E. F. Terry. 2,279,960; Apr. 14.
Stereoscope. D. P. Mossman. 2,270,904; Apr. 14.
Stereoscopic attachment for cameras. A. Chanosky. 2,279,443; Apr. 14.
Stereoscopic pictures with aplanat focusing elements. N. T. Kaszab. 2,279,825; Apr. 14.
Stick manipulator, Portable. N. M. Thomas. 2,279,801; Apr. 14.
Stitch strain absorbing means for hosiery and the like, Elastic lace. W. E. Sheeler. 2,279,346; Apr. 14.
Stocking, Separable surgical. J. M. Bollinger. 2,280,025; Apr. 14.
Stocks, Treatment of cracking. W. L. Benedict and J. E. Ahlberg. 2,279,550; Apr. 14.
Stop motion for drawing frames. E. M. Holt. 2,279,786; Apr. 14.
Stove, Electric. J. C. Rogers. 2,279,525; Apr. 14.
Strainer, Sink. J. S. Judell and J. P. Goodenough. 2,279,683; Apr. 14.
Stretcher. M. Martinson. 2,279,694; Apr. 14.
Stretcher, Curtain. L. C. Watling. 2,279,647; Apr. 14.
Strips of material on a supporting surface, Producing thin. H. E. Holman. 2,279,567; Apr. 14.
Submarines, Device for raising sunken. S. A. Lyon. 2,279,829; Apr. 14.
Support: *See*—
Container support. Scaffold support.
Supporting clip. H. R. Ellinwood. 2,279,865; Apr. 14.
Surface coatings. W. Krumbhaar. 2,279,754; Apr. 14.
Swinging door. E. Kann. 2,279,572; Apr. 14.
Switch: *See*—
Calculating machine switch. Lock switch.
Fuse box and entrance switch.
Switch. R. Knopp. 2,279,753; Apr. 14.
Switch. H. J. Murphy. 2,279,905; Apr. 14.
Switchboard. W. M. Scott, Jr. 2,279,841; Apr. 14.
Switching selector for printing telegraph systems. R. V. Morgenstern and H. P. Gilbert. 2,279,325; Apr. 14.
Tape condenser. H. Moss. 2,279,741; Apr. 14.
Telegraph system. H. C. A. van Duren. 2,279,353; Apr. 14.
Telephone subset. E. S. McLarn. 2,279,713; Apr. 14.
Telephone system. T. F. Crocker. 2,279,448; Apr. 14.
Telephone system, Automatic. N. H. Saunders. 2,279,531; Apr. 14.
Temperature measuring apparatus. P. L. Stapleton. 2,279,846; Apr. 14.
Therapeutic appliance, Magnetic vibrating. F. H. Newton. 2,279,906; Apr. 14.
Thermoplastic decorative trim member, Fabricated. J. S. Reid. 2,279,345; Apr. 14.
Thermostat. G. F. Drake. 2,279,305; Apr. 14.
Thermostat. M. J. Schoumaker. 2,279,929; Apr. 14.
Thermostatic control device. E. H. White. 2,279,544; Apr. 14.
Thickening apparatus. H. S. Coe. 2,279,970; Apr. 14.
Thiourea-aldehyde type products, Production of. K. Ripper. 2,279,493; Apr. 14.
Tie-forming tool. P. B. Wallis. 2,279,507; Apr. 14.
Tie wire, Vibration damping. W. Lancaster. 2,279,625; Apr. 14.
Time and temperature control for stokers. L. M. Persons. 2,279,504; Apr. 14.
Toilet bowl ventilator. H. Jentzer. 2,279,789; Apr. 14.
Tool: *See*—
Cutting tool. Tie-forming tool.
Hydrostatically operated setting tool. Weeding tool.
Tool for applying granular material. H. W. Hudson. 2,279,621; Apr. 14.
Toolholder, Quick-change. V. Grey. 2,279,310; Apr. 14.
Tool holder. C. A. Cherry. 2,279,899; Apr. 14.
Tooth cleaning and gum massaging brush. H. L. Wilensky. 2,279,355; Apr. 14.

Toothbrush. C. G. Kerr. 2,279,687; Apr. 14.
Toothbrush, Rotary. H. L. Glynn. 2,279,982; Apr. 14.
Torch. J. C. Crowley. 2,279,367; Apr. 14.
Torque wrench. K. R. Larson. 2,279,792; Apr. 14.
Toy, Projectile shooting. R. N. Carver. 2,279,386; Apr. 14.
Track circuit system of railway signaling, Coded. L. R. Allison. 2,280,020; Apr. 14.
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Traffic controlling apparatus, Railway. R. K. Crooks. 2,279,971; Apr. 14.
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Transmission, Hydrodynamic. W. D. Tipton. 2,280,015; Apr. 14.
Trap: *See*—
Septic tank and grease trap. Ventilating light trap.
Traverse mechanism for winding machines. A. W. Arterton. 2,279,856; Apr. 14.
Treadle. D. H. Chason. 2,279,587; Apr. 14.
Trunk, Intercepting. I. H. Henry and F. A. Korn. 2,279,822; Apr. 14.
Tube: *See*—
Drinking tube. Vaporizing tube.
Tube attaching means for heat exchangers. F. M. Young. 2,279,808; Apr. 14.
Tube timing device, Electron. F. A. Gross. 2,279,311; Apr. 14.
Tunnel furnace. R. and L. Gottignies. 2,279,511; Apr. 14.
Turn indicator. W. P. Powers. 2,280,038; Apr. 14.
Typewriting and like machine. R. G. Thompson. 2,279,802; Apr. 14.
Ultra-short wave generator. K. Buchmann and H. Zuhrt. 2,279,441; Apr. 14.
Underreamer. W. B. Dunlap, Jr. 2,279,562; Apr. 14.
Uniform, Nurse's. A. Schatten. 2,279,761; Apr. 14.
Urea-aldehyde resins, Method of producing. S. S. Gutkin. 2,279,312; Apr. 14.
Valve: *See*—
Air valve. Packless valve.
Oil well choke valve.
Valve. H. J. Burdick. 2,279,298; Apr. 14.
Valve. J. W. Grant and H. M. Hunt. 2,279,566; Apr. 14.
Valve. D. Hage. 2,279,513; Apr. 14.
Valve. E. B. Leach. 2,279,472; Apr. 14.
Valve. O. C. Martin. 2,279,693; Apr. 14.
Valve. H. H. McGee. 2,279,834; Apr. 14.
Valve device, Control. E. E. Von Behren. 2,279,424; Apr. 14.
Valve seat driver. C. White and O. B. Graham. 2,279,649; Apr. 14.
Valve seating tool and method. J. D. Langdon. 2,279,890; Apr. 14.
Vaporizing tube, Liquid. E. G. Bailey. 2,279,548; Apr. 14.
Vat dyestuff of the dibenzanthrone series and making same. H. Wolff, E. Krauch, and K. Wilke. 2,279,725; Apr. 14.
Vegetation-bearing display surface and system. E. H. Gates. 2,279,735; Apr. 14.
Vehicle: *See*—
Motor vehicle. Road vehicle.
Vehicle draft means. R. N. Janeway. 2,279,993; Apr. 14.
Vehicle frame. A. B. Werdehoff. 2,280,016; Apr. 14.
Vehicle top, Foldable. F. J. Westrope. 2,279,541; Apr. 14.
Vending machine. D. D. Brodie and P. C. Blair. 2,279,936; Apr. 14.
Venetian blinds, Washing. R. G. Long and W. D. French. 2,279,691; Apr. 14.
Ventilating device and system. C. C. Whittaker. 2,279,961; Apr. 14.
Ventilating light trap. A. S. Howell. 2,279,920; Apr. 14.
Ventilator. W. F. Hirschman. 2,279,620; Apr. 14.
Vessel, Plywood. G. C. Hamilton. 2,279,820; Apr. 14.
Vibrator. E. L. Barrett. 2,280,023; Apr. 14.
Vinyl compound, Process for polymerizing. H. Berg. 2,279,436; Apr. 14.
Visor. F. J. Westrope. 2,279,542; Apr. 14.
Visor assembly. F. J. Westrope. 2,279,648; Apr. 14.
Vitreous enamel coated steel article and making the same. H. R. Belding and J. A. Eckel. 2,279,935; Apr. 14.
Voltage regulator. W. C. Hall. 2,279,313; Apr. 14.
Vulcanizing press. W. P. Voth and C. B. Hudson. 2,279,540; Apr. 14.
Wall construction. H. H. Burson. 2,279,898; Apr. 14.
Washing installation. E. Jung. 2,279,374; Apr. 14.
Washing machine. J. W. Chamberlin and R. E. Bassett. 2,279,656; Apr. 14.
Washing machine. W. A. Frantz. 2,279,510; Apr. 14.
Washing machine. C. G. Suits and C. K. Skinner. 2,279,878; Apr. 14.
Water closet bowls and seats, Ventilation of. R. W. and W. W. Johnson. 2,279,870; Apr. 14.
Water tube boiler. J. L. Chedister and T. J. Engel. 2,279,618; Apr. 14.
Wave control and control circuit. M. G. Crosby. 2,279,661; Apr. 14.
Wave length modulation system. M. G. Crosby. 2,279,660; Apr. 14.
Web, Treating a fibrous. J. M. Behnke. 2,279,549; Apr. 14.
Weeding tool. H. D. Brandeberry. 2,279,747; Apr. 14.
Welding machine. C. Herzog. 2,279,316; Apr. 14.
Well pumping apparatus. R. Plotts. 2,279,379; Apr. 14.
Wheel: *See*—
Diamond-polishing wheel. Numeral wheel.
Wheel assembly and cover therefor. T. A. Davenport. 2,279,704; Apr. 14.
Wheel member and assembly, Ornamental. G. A. Lyon. 2,279,333; Apr. 14.
Wheel structure. G. A. Lyon. 2,279,334; Apr. 14.
Wheel trenching machine, Rotary. V. S. Penote and A. R. Askue. 2,280,004; Apr. 14.
Wick, Woven. G. Walters. 2,279,354; Apr. 14.
Windshield cleaner. G. C. Goode and V. W. Sherman. 2,279,983; Apr. 14.
Wire connector. M. D. Bergan. 2,279,508; Apr. 14.
Wood-turning machine. I. H. Bradley. 2,279,730; Apr. 14.
Work holder for facing machines. H. H. Canterbury. 2,279,616; Apr. 14.
Worm for use in double enveloping worm gearing. G. R. Scott. 2,279,414; Apr. 14.
Wrap measuring apparatus. P. J. Dye. 2,279,563; Apr. 14.
Wrapper feed for wrapping machines. E. L. Smith and C. E. Melhorn. 2,279,843; Apr. 14.
Wrapper, Newspaper. S. E. Hirschberg. 2,279,989; Apr. 14.
Wrench: *See*—
Torque wrench.
Wrench. W. Petersen. 2,280,005; Apr. 14.
Yarn and making the same, Knop. E. Bry. 2,279,297; Apr. 14.
Yarn conditioning process and compositions therefor. J. B. Dickey and J. G. McNally. 2,279,501–2; Apr. 14.
Yarn marker attachment for textile machines. G. B. McCombs. 2,279,925; Apr. 14.
Yarn treating process and composition therefor. J. G. McNally and J. B. Dickey. 2,279,377; Apr. 14.
Zinc and nickel, Separating and separately recovering. A. L. Christensen. 2,279,900; Apr. 14.

CLASSIFICATION OF PATENTS

ISSUED APRIL 14, 1942

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number—class, second number—subclass, third number—patent number

1— 2: 2,279,679
3: 2,279,584
14: 2,279,638
49: 2,279,624
2— 93: 2,279,761
123: 2,279,663
146: 2,279,845
227: 2,280,017
253: 2,279,972
3— 2: 2,279,962
4— 131: 2,279,577
2,279,578
213: 2,279,789
216: 2,279,870
288: 2,279,683
5— 69: 2,279,307
82: 2,279,694
351: 2,279,886
7— 14.1: 2,279,968
8— 132: 2,279,478
10— 86: 2,279,388
2,279,574
89: 2,280,013
136: 2,279,462
12— 47.1: 2,279,430
51: 2,279,304
79.6: 2,279,440
87: 2,279,876
13— 22: 2,279,511
15— 23: 2,279,982
77: 2,279,608
2,279,691
104.04: 2,279,922
110: 2,279,355
133: 2,279,520
136: 2,279,320
176: 2,279,687
231: 2,279,559
239: 2,279,944
253: 2,279,983
16— 72: 2,279,527
135: 2,279,992
197: 2,279,600
17— 3: 2,279,685
18— 5.7: 2,279,952
17: 2,279,540
21: 2,279,505
30: 2,279,344
2,280,022
42: 2,279,380
47: 2,279,859
55: 2,279,743
2,279,901
57: 2,279,366
19— 140: 2,279,797
151: 2,279,741
165: 2,279,786
20— 4: 2,279,898
16: 2,279,572
76: 2,279,755
21— 9: Re.22,071
22— 68: 2,279,990
23— 255: 2,279,397
24— 11: 2,279,803
73: 2,279,916
81: 2,279,957
84: 2,279,934
138: 2,279,460
178: 2,279,738
205.5: 2,279,767
207: 2,279,998
218: 2,279,720
221: 2,279,343
263: 2,279,769
25— 38: 2,279,340
41: 2,279,889
28— 1: 2,279,299
2,279,300
28: 2,279,925
28— 59: 2,279,479
29— 37: 2,279,569
88.2: 2,279,649
148: 2,279,935
148.2: 2,279,726
2,279,932
159: 2,279,816
30— 43: 2,279,363
2,279,373
2,279,682
2,279,784
168: 2,280,007
172: 2,279,727
272: 2,279,454
353: 2,279,833
31— 32: 2,280,011
32— 5: 2,279,351
33— 71: 2,279,321
34— 109: 2,279,362
181: 2,279,848
35— 41: 2,279,446
36— 1: 2,279,453
42: 2,279,894
59: 2,279,891
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37— 97: 2,280,004
145: 2,279,869
146: 2,279,641
38— 15: 2,279,699
90: 2,279,731
40— 25: 2,280,037
68: 2,279,836
110: 2,279,790
126: 2,279,893
132: 2,280,010
41— 10: 2,279,330
2,279,331
2,279,332
2,279,333
2,279,704
22: 2,279,459
42— 75: 2,279,931
43— 148: 2,279,495
44— 3: 2,279,589
45— 24: 2,279,647
46— 117: 2,279,709
119: 2,279,603
219: 2,279,386
47— 33: 2,279,735
61: Pl.Pt.508
62: Pl.Pt.509
48— 180: 2,279,530
49— 77: 2,280,036
81: 2,279,618
51— 3: 2,279,798
9: 2,279,342
101: 2,279,902
109: 2,279,940
124: 2,279,494
170: 2,279,782
2,279,783
186: 2,279,634
195: 2,279,673
207: 2,279,486
56— 41: 2,279,598
57— 105: 2,279,537
120: 2,279,707
137: 2,279,785
144: 2,279,297
60— 54: 2,280,042
62— 1: 2,279,705
4: 2,279,888
6: 2,279,657
2,279,787
24: 2,279,847
89.5: 2,279,484
2,279,558
104: 2,279,804
116: 2,279,928
62— 141: 2,279,483
66— 96: 2,279,736
118: 2,279,926
172: 2,279,346
191: 2,279,919
67— 29: 2,279,370
2,279,477
2,279,880
31: 2,280,048
69: 2,279,354
68— 5: 2,279,984
16: 2,279,656
23: 2,279,878
70— 394: 2,279,592
456: 2,279,449
72— 101: 2,279,515
103: 2,279,644
73— 4: 2,279,861
51: 2,279,368
2,279,409
2,279,563
53: 2,279,977
179: 2,279,892
228: 2,279,607
338: 2,279,611
74—189.5: 2,280,015
242.11: 2,280,021
365: 2,279,986
458: 2,279,414
472: 2,279,999
473: 2,280,047
503: 2,279,796
561: 2,279,587
593: 2,279,379
75— 41: 2,279,399
55: 2,279,617
63: 2,279,900
65: 2,279,565
128: Re.22,072
131: 2,280,041
136: Re.22,073
137: Re.22,074
168: 2,279,712
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77— 37: 2,279,636
80— 60: 2,279,579
81— 84: 2,280,005
82— 29: 2,279,710
83— 9: 2,279,639
84— 103: 2,279,637
85— 32: 2,279,903
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88— 1: 2,279,825
14: 2,279,646
24: 2,279,463
2,279,555
29: 2,279,904
2,279,967
40: 2,279,412
54.5: 2,279,795
57: 2,279,372
2,279,384
87: 2,279,751
89— 21: 2,279,692
24: 2,279,352
37: 2,279,601
90— 1.6: 2,280,045
12.5: 2,279,890
59: 2,279,616
91— 18: 2,279,328
44: 2,279,621
55: 2,279,701
93— 2: 2,279,843
6: 2,279,842
36.01: 2,279,359
49: 2,279,534
95— 2: 2,279,309
5: 2,279,949
95— 6: 2,279,411
7: 2,279,406
9: 2,279,410
10: 2,279,723
45: 2,279,476
86: 2,279,443
97— 40: 2,279,652
63: 2,279,747
172: 2,280,008
98— 1: 2,279,961
2: 2,279,369
99— 90: 2,280,031
160: 2,280,024
238: 2,279,868
102— 10: 2,279,451
30: 2,279,416
103— 6: 2,279,948
23: 2,279,950
38: 2,279,378
145: 2,279,740
165: 2,279,498
174: 2,279,645
203: 2,279,403
105— 193: 2,279,793
369: 2,279,522
375: 2,279,545
457: 2,279,756
106— 222: 2,279,754
107— 6: 2,279,420
8: 2,279,632
108— 8: 2,279,382
10: 2,279,674
33: 2,279,943
111— 5: 2,280,014
112— 117: 2,279,028
141: 2,279,588
113— 40: 2,279,417
114— 16.5: 2,279,829
208: 2,279,302
115— 63: 2,279,827
116— 114: 2,279,715
129: 2,279,551
2,280,038
117— 17: 2,279,361
21: 2,279,774
36: 2,279,604
49: 2,279,686
66: 2,279,549
102: 2,279,553
103: 2,279,771
122: 2,279,680
139: 2,279,860
144: 2,279,339
2,279,788
119— 1: 2,279,405
29: 2,279,539
98: 2,279,840
120— 25: 2,279,554
96: 2,279,672
122— 32: 2,280,028
235: 2,279,548
356: 2,279,618
448: 2,279,976
123— 75: 2,279,413
143: 2,279,709
124— 4: 2,279,857
16: 2,279,766
21: 2,279,457
125— 13: 2,279,979
37: 2,279,523
126— 109: 2,279,518
110: 2,279,974
2,279,975
128— 7: 2,279,714
41: 2,279,906
133: 2,279,296
165: 2,280,025
129— 16: 2,279,702
23: 2,279,503
132— 13: 2,279,708
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2,279,996
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75.6: 2,279,533
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135— 5: 2,279,812
7.1: 2,279,749
136— 4: 2,279,846
146: 2,279,318
154: 2,279,575
176: 2,279,317
137— 53: 2,279,571
139: 2,279,298
153: 2,279,429
138— 99: 2,279,642
139— 1: 2,279,769
336: 2,279,675
140— 117: 2,279,507
141— 9: 2,279,619
143— 38: 2,280,049
144— 280: 2,279,994
309: 2,279,820
145— 33: 2,279,773
35: 2,279,576
146— 8: 2,279,987
72: 2,279,376
219: 2,279,602
148— 21: 2,280,029
21.5: 2,279,716
25: 2,279,828
151— 5: 2,279,681
152— 370: 2,280,006
153— 2: 2,279,490
16: 2,279,654
32: 2,279,965
39: 2,279,389
48: 2,279,964
154— 2: 2,279,630
16: 2,279,921
155— 5.22: 2,279,817
45: 2,279,852
130: 2,279,946
162: 2,279,748
179: 2,279,336
156— 15: 2,279,939
158— 27.4: 2,279,367
28: 2,279,546
81: 2,279,924
119: 2,279,776
164— 50: 2,279,390
61: 2,279,718
64: 2,279,768
166— 1: 2,279,676
167— 24: 2,279,800
2,279,879
53.1: 2,279,421
90: 2,279,468
169— 2: 2,279,791
170— 163: 2,279,301
2,279,633
171— 119: 2,280,001
209: 2,279,538
220: 2,279,313
252: 2,279,690
172— 120: 2,279,402
239: 2,280,019
173— 269: 2,279,508
2,279,794
273—2,279,807
328: 2,279,824
2,279,913
2,279,915
334.1: 2,279,516
174— 40: 2,279,865
2,279,866
42: 2,279,625
174— 94: 2,279,677
67: 2,280,032
175— 41: 2,279,826
294: 2,279,737
298: 2,279,841
320: 2,279,849
362: 2,279,581
363: 2,279,729
366: 2,279,746
176— 16: 2,279,871
122: 2,279,635
124: 2,279,941
126: 2,279,907
177— 314: 2,279,394
329: Re.22,066
337: 2,279,896
353: 2,280,009
367: 2,279,568
380: 2,279,360
386: 2,279,322
178— 2: 2,279,295
3: Re.22,070
23: 2,279,335
34: 2,279,609
67: 2,280,018
179— 2.5: 2,279,697
5: 2,279,739
18: 2,279,531
27: 2,279,448
2,279,822
84: 2,279,978
100: 2,279,485
2,279,713
100.4 2,279,500
100.41: 2,279,815
171: 2,279,543
171.5: 2,279,659
2,279,660
2,279,661
180— 30: 2,279,874
89: 2,279,806
183— 4: 2,279,326
120: 2,279,938
188— 110: 2,279,775
198: 2,279,653
189— 1: 2,279,873
92: 2,279,918
191— 23: 2,279,383
192— .01: 2,280,002
3: 2,279,458
3.5: 2,279,365
12: 2,279,597
28: 2,279,510
69: 2,279,700
91: 2,279,732
194— 2: 2,279,664
17: 2,279,665
101: 2,279,488
102: 2,279,487
195— 6: 2,279,908
2,279,909
2,279,910
2,279,911
196— 13: 2,279,550
17: 2,279,937
40: 2,279,461
49: 2,279,547
50: 2,279,703
133: 2,280,030
197— 73: 2,279,802
198— 14: 2,280,043
34: 2,279,573
172: 2,279,862
220: 2,279,923
223: 2,279,837
200— 1: 2,279,811
4: 2,279,753
6: 2,279,606

200—	11: 2,279,480	211—	11: 2,279,642	235—	1 2,279,456	250—	26: 2,279,872	260—	85: 2,279,436	280—	166: 2,279,329
	44: 2,279,623		64: 2,279,335		2,279,556		43: 2,279,810		290: 2,279,585	282—	1: 2,279,855
	51: 2,279,655		113: 2,279,760		3: 2,279,858		71: 2,279,968		295: 2,279,497	285—	84: 2,279,437
	52: 2,279,582		120: 2,280,008		23: 2,279,805		81: 2,279,577		2,280,040		97.5: 2,279,969
	2,279,605		127: 2,279,533		62: 2,279,455		151: 2,279,930		348: 2,279,469		111: 2,279,808
	59: 2,279,400		177: 2,279,906		63: 2,279,474		175: 2,279,535		2,279,470		143: 2,279,733
	90: 2,280,023	212—	81: 2,279,722		75: 2,279,481	251—	9: 2,279,534		354: 2,279,725	286—	7: 2,279,660
	93: 2,279,404	213—	12: 2,279,998		137: 2,279,444		31: 2,279,519		408: 2,279,985		10: 2,279,863
	104: 2,279,395		33: 2,279,308	236—	1: Re.22,068		93: 2,279,472		412.2: 2,280,046		20: 2,279,814
	114: 2,279,744	214—	90: 2,279,529		44: 2,279,535		121: 2,279,513		413: 2,279,734	287—	53: 2,279,593
	117: 2,279,627		113: 2,279,839		2,279,966	252—	8.5: 2,280,034		426: 2,279,408		2,279,954
	120: 2,279,631	215—	86: 2,279,904		45: 2,279,610		2,280,035		501: 2,279,514		2,279,955
	138: 2,279,929	216—	55: 2,279,726		46: 2,279,504		8.6: 2,279,377		553: 2,279,765		2,279,956
	139: 2,279,305		2,279,844		63: 2,279,492		8.7: 2,279,501		563: 2,279,294		126: 2,280,027
	2,279,544	219—	4: 2,279,316		70: 2,279,528		8.8: 2,279,502		577: 2,279,385	288—	34: 2,279,450
	148: 2,279,536		13: 2,279,858	237—	51: 2,279,772		32: 2,279,688		627: 2,279,711	292—	228: 2,279,757
	166: 2,279,905		20: 2,279,525	238—	366: 2,279,482		47: 2,279,560		633: 2,279,509		335: 2,279,591
201—	63: 2,279,445	220—	22: 2,279,425	240—	2: 2,279,341		50: 2,279,561		666: 2,279,721	294—	11: 2,279,809
202—	42: 2,279,778		2,279,427		2,279,770		51: 2,279,973		676: 2,279,291		57: 2,279,324
	2,279,779		2,279,429		6.4: 2,279,933		2,280,039		2,279,292		82: 2,279,315
	2,279,780		40: 2,279,356		20: 2,279,596		95: 2,279,532		734: 2,279,557		87: 2,279,801
	266: 2,279,524		44: 2,279,666		47: 2,279,920		137: 2,279,314		792: 2,279,875		112: 2,279,570
204—	15: 2,279,567		54: 2,279,667		103: 2,279,595	254—	9: 2,279,465	261—	41: 2,279,626	296—	44: 2,279,345
	51: 2,279,830		2,279,668	242—	43: 2,279,856		88: 2,279,464	263—	8: 2,279,689		97: 2,279,542
	312: 2,279,583		94: 2,279,717		53: 2,279,323		176: 2,279,653	264—	1: 2,279,491		2,279,648
205—	1: 2,279,347	221—	1: 2,279,927		84.5: 2,279,484		190: 2,279,887	265—	1: 2,279,792		112: 2,279,541
	2,279,348		97: 2,279,756		114: 2,280,042	255—	74: 2,279,562		17: 2,279,698	299:	17: 2,279,396
	2,279,349		98: 2,279,725	244—	42: 2,279,615	256—	13.1: 2,279,942		27: 2,279,706		121: 2,279,374
	2,279,380		101: 2,279,656		83: 2,279,612	257—	28: 2,279,552		39: 2,279,375		149: 2,279,391
	2,279,415		118: 2,279,475		104: 2,279,447		137: 2,279,489		47: 2,279,912	301—	37: 2,279,334
206—	41: 2,279,696		129: 2,279,613	246—	33: 2,279,980	259—	109: 2,279,750		71: 2,279,678	302—	17: 2,279,306
	41.1: 2,279,953	223—	68: 2,279,517		2,280,020	260—	6: 2,279,387	266—	3: 2,279,684	303—	2: 2,279,452
	41.2: 2,279,614		88: 2,279,777		34: 2,279,981		9: 2,279,438		2,279,917		3: 2,279,407
	44: 2,279,471		102: 2,279,662		63: 2,279,971		2,279,439		4: 2,279,564		6: 2,279,424
	57: 2,279,658	225—	40: 2,279,628	248—	145: 2,279,622		19: 2,279,499		12: 2,279,580		21: 2,279,398
	66: 2,279,657	226—	48: 2,279,646		146: 2,279,988		21: 2,279,312		23: 2,279,338		2,279,432
209—	121: 2,279,947		96: 2,279,371		311: 2,279,442		22: 2,279,496	267—	9: 2,279,914		2,279,433
	199: 2,279,473		97: 2,279,651		358: 2,279,303		2,279,764	271—	2.1: 2,279,467		40: 2,279,392
	315: 2,279,742	228—	19.2: 2,279,504	250—	1: 2,279,695		25: 2,279,526	272—	53: 2,279,963		2,279,393
	458: 2,279,895	229—	32: 2,279,670		8: 2,279,353		41: 2,279,762	273—	86: 2,280,000	304—	9: Re.22,069
	466: 2,279,590		37: 2,279,358		11: 2,279,422		45: 2,279,512	274—	10: 2,279,851		11: 2,279,850
210—	6: 2,279,813		51: 2,279,351		2,279,466		69: 2,279,493	277—	20: 2,279,668	306—	37: 2,279,995
	51.5: 2,279,418		53: 2,279,327		20: 2,279,819		78: 2,279,745		53: 2,279,959	308—	21: 2,279,719
	2,279,419		88: 2,279,998		27: 2,279,311		2,279,752		59: 2,279,566		47: 2,279,823
	55: 2,279,970	230—	24: 2,279,431		2,279,506		2,279,881	279—	4: 2,279,730		141: 2,279,839
	131: 2,279,609		52: 2,279,364		2,280,026		2,279,882		19.5: 2,279,960	309—	3: 2,279,671
	2,280,033		69: 2,279,596		27.5: 2,279,321		2,279,883		78: 2,279,310	312—	63: 2,279,936
	154: 2,279,838		114: 2,279,425		2,279,331		2,279,884		81: 2,279,899		107: 2,279,945
	169: 2,279,423		117: 2,279,620		36: 2,279,319		2,279,885	280—	106: 2,280,016		
211—	10: 2,279,897	235—	1: 2,279,337		2,279,441		84: 2,279,293		124: 2,280,044		

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,279,312:	260— 21	2,279,438:	260— 9	2,279,664:	194— 2	2,279,734:	260—413	2,279,833:	30—353	2,279,991:	215— 86
2,279,314:	252—137	2,279,496:	260— 22	2,279,673:	51—195	2,279,754:	106—222	2,279,860:	117—139	2,280,003:	211—120
2,279,320:	15—136	2,279,501:	252— 8.7	2,279,676:	166— 1	2,279,768:	164— 64	2,279,864:	211—177	2,280,028:	122— 32
2,279,339:	117—144	2,279,507:	140—117	2,279,677:	174— 94	2,279,771:	117—103	2,279,901:	18— 55	2,280,029:	148— 21
2,279,350:	205— 1	2,279,532:	252— 95	2,279,680:	117—122	2,279,774:	117— 21	2,279,953:	206—41.1	2,280,033:	210—131
2,279,356:	220— 40	2,279,549:	117— 66	2,279,686:	117— 49	2,279,786:	19—165	2,279,955:	287— 53		
2,279,361:	117— 17	2,279,553:	117—102	2,279,688:	252— 32	2,279,788:	117—144	2,279,957:	24— 81		
2,279,375:	265— 39	2,279,582:	200— 52	2,279,692:	89— 21	2,279,821:	250—27.5	2,279,968:	7—14.1		
2,279,391:	299—149	2,279,604:	117— 36	2,279,727:	30—172	2,279,829:	114—16.5	2,279,972:	2—253		

U. S. GOVERNMENT PRINTING OFFICE: 1942

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Air reduction Sales Company, New York, N. Y. Stopcock lubricant. Serial No. 450,528; Apr. 21. Class 15.

Arkwright Finishing Company, Providence, R. I. Tracing and pencil cloth. Serial No. 450,892; Apr. 21. Class 37.

Armand Company, The, Des Moines, Iowa. Package containing miniature samples of various shades of face powder. Serial No. 447,718; Apr. 21. Class 6.

Atlas Supply Company, Newark, N. J. Portable hand operated fire extinguishers. Serial No. 450,154; Apr. 21. Class 23.

Ayr Scotch Wools, Incorporated, Green's Farms, Conn. Suits, coats and hats. Serial No. 448,932; Apr. 21. Class 39.

B-Z-B Honey Company. (See Schumacher, H. H.)

Barbizon Corporation, The, New York, N. Y. Piece goods of spun rayon fabrics. Serial No. 450,086; Apr. 21. Class 42.

Beacon Looms, Inc., New York, N. Y. Rugs and carpets. Serial No. 444,066; Apr. 21. Class 42.

Beauty Counselors, Inc., Grosse Pointe, Mich. Preparation adapted for use on the legs to create the effect of silk stockings. Serial No. 451,159; Apr. 21. Class 6.

Beaver Shirt Manufacturing Co., Inc., New York, N. Y. Men's dress and sport shirts. Serial No. 451,282; Apr. 21. Class 39.

Bee Line Honey Co. (See Schumacher, H. H.)

Benjamin Electric Mfg. Company, Des Plaines, Ill. Electric lighting fixtures. Serial Nos. 441,041–4; Apr. 21. Class 21.

Boys' Clubs of America, Inc., New York, N. Y. Monthly magazine. Serial Nos. 451,222–3; Apr. 21. Class 38.

Bulova Watch Company, Inc., New York, N. Y. Watches. Serial No. 451,072; Apr. 21. Class 27.

Cabin Crafts, Dalton, Ga. Bedspreads and rugs. Serial No. 450,222; Apr. 21. Class 42.

Ceballos, Juan M., doing business as Three Winds Dairy, Westbury, Long Isaind, N. Y. Goat's milk. Serial No. 449,638; Apr. 21. Class 46.

Celanese Corporation of America, New York, N. Y. Scripts for radio broadcasts. Serial No. 450,303; Apr. 21. Class 38.

Central Chemical Corporation of Maryland, Hagerstown, Md. Chemicals and insecticides for spraying and dusting purposes. Serial No. 451,103; Apr. 21. Class 6.

Champion Mfg. Co., Charlotte, N. C. Padding cement. Serial No. 450,354; Apr. 21. Class 5.

Cheney Brothers, Manchester, Conn., and New York, N. Y. Neckties. Serial No. 451,000; Apr. 21. Class 39.

Chicago Pharmacal Company, Chicago, Ill. Pharmaceutical ointment for local application. Serial No. 450,786; Apr. 21. Class 6.

Cincinnati Milling Machine Co., The, Cincinnati, Ohio. Machine tools. Serial No. 446,517; Apr. 21. Class 23.

Circulators & Devices Mfg. Corp., New York, N. Y. Electrical air circulatory fans. Serial No. 449,168; Apr. 21. Class 21.

Cluett, Peabody & Co., Inc., Troy, N. Y. Negligee dress shirts. Serial No. 451,002; Apr. 21. Class 39.

Cohen, Joseph H., & Sons, Vanity Clothes, Inc., New York, N. Y. Men's clothing. Serial No. 450,917; Apr. 21. Class 39.

Collins, Ashton B., Birmingham, Ala. Newspaper. Serial No. 450,927; Apr. 21. Class 38.

Commercial Solvents Corporation, New York, N. Y. Radiator preparations. Serial No. 445,685; Apr. 21. Class 6.

Coughlan, G. N., Co., Orange, N. J. Chemical powder used as a fire scale and soot eradicator. Serial No. 451,187; Apr. 21. Class 6.

Courtaulds, Limited, London, England. Yarns of cellulose. Serial No. 450,714; Apr. 21. Class 43.

Defender Photo Supply Co., Inc., Rochester, N. Y. Charts in connection with photographic developers and papers. Serial No. 451,074; Apr. 21. Class 38.

Delaunay, Arthur J., Spring Lake, N. J. Beverages, syrups and extracts for making same. Serial No. 451,489; Apr. 21. Class 45.

De Lisle, Harold L., doing business as Engineering Sales Company, Sheboygan, Wis. Rulers, straightedges, T-squares, etc. Serial No. 445,319; Apr. 21. Class 26.

Dennis, Martin, Company, The, Newark, N. J. Chemical preparation. Serial No. 451,226. Apr. 21. Class 6.

Dominion Minerals, Incorporated, Washington, D. C. Aplite. Serial No. 451,075; Apr. 21. Class 1.

Drug Guild, Inc., New York, N. Y. Preparation for the treatment of athlete's foot. Serial No. 449,733; Apr. 21. Class 6.

E-Cut Knitting Mills, Royersford, Pa. Infants' and children's knitted underwear. Serial No. 451,048; Apr. 21. Class 39.

Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Electric tacking irons and electric irons. Serial Nos. 450,415–16; Apr. 21. Class 21.

Engineering Sales Company. (See De Lisle, Harold L.)

Enro Shirt Company, Inc., The, Louisville, Ky. Men's pajamas. Serial No. 450,178; Apr. 21. Class 39.

Farmers Engineering & Manufacturing Co., Wilkinsburg, Pa. Electrical fence charging apparatus and equipment. Serial No. 450,259; Apr. 21. Class 21.

Fisher Scientific Company, Pittsburgh, Pa. Electrical heating device with open coil heating element and rheostat control. Serial No. 450,478; Apr. 21. Class 21.

Foster Canning Company of Ohio, Napoleon, Ohio. Canned dog food. Serial No. 450,851; Apr. 21. Class 46.

Freedom Oil Company, Freedom, Pa. Lubricating oils and greases. Serial No. 449,045; Apr. 21. Class 15.

Fruit Dispatch Company, New York, N. Y. Bananas. Serial No. 450,896; Apr. 21. Class 46.

G., H. & E. Freydberg, Inc., New York, N. Y. Children's combination garments. Serial No. 451,168; Apr. 21. Class 39.

Goldenberg, Isidore, New York, N. Y. Men's neckties. Serial No. 448,045; Apr. 21. Class 39.

Great Atlantic & Pacific Tea Company, The, New York, N. Y. Breakfast cereal. Serial No. 451,138; Apr. 21. Class 46.

Gulf Oil Corporation, Pittsburgh, Pa. Lubricating oils. Serial No. 434,718; Apr. 21. Class 15.

Gulf Oil Corporation, Pittsburgh, Pa. Lubricants. Serial No. 435,499; Apr. 21. Class 15.

Hanes Hosiery Mills Co., Winston-Salem, N. C., and New York, N. Y. Hosiery. Serial No. 449,135; Apr. 21. Class 39.

Harris-Seybold-Potter Company, Cleveland, Ohio. Paper cutters, paper trimmers, paper choppers, etc. Serial No. 450,964; Apr. 21. Class 23.

Harrison Mills, Inc., East Newark, N. J. Piece goods of cotton, wool, rayon, silk, and combinations thereof. Serial No. 445,938; Apr. 21. Class 42.

Helm, Max B., New York, N. Y. Plate glass substitute. Serial No. 450,767; Apr. 21. Class 50.

Holly-Cater Company, Cleveland, Ohio. Confection. Serial No. 450,449; Apr. 21. Class 46.

Ideal Novelty & Toy Co., Long Island City, N. Y. Dolls. Serial No. 451,207; Apr. 21. Class 22.

Irresistible, Inc., Jersey City, N. Y. Perfume. Serial No. 441,541; Apr. 21. Class 6.

James River Hydrate & Supply Company, Indian Rock and Buchanan, Va. Hydraulic and water-proofed masonry mortar, and composition or admixture for incorporation with concrete mix or the like. Serial No. 438,625; Apr. 21. Class 12.

Jeuda Textile Corporation, New York, N. Y. Ladies' house dresses and aprons. Serial No. 450,800; Apr. 21. Class 39.

Johns-Manville Corporation, New York, N. Y. Asbestos-cement shingles. Serial No. 437,656; Apr. 21. Class 12.

Johnson Chemical Co. (See Uddo, Joseph.)

Kawerk, Roch D., doing business as Rox Products Company, Birmingham, Ala. Salve. Serial No. 449,523; Apr. 21. Class 6.

Kennedy, David E., Inc., Brooklyn, N. Y. Floor tiles. Serial No. 450,163; Apr. 21. Class 12.

Klein Brothers Textile Corp., New York, N. Y. Textile fabrics in the piece. Serial No. 450,509; Apr. 21. Class 42.

Lakeside Laboratories, Inc., The, Milwaukee, Wis. Drugs and pharmaceuticals. Serial No. 451,552; Apr. 21. Class 6.

Leadway Stores Corporation, also doing business as Leadway Foods, Chicago, Ill. Toilet tissue. Serial No. 450,970; Apr. 21. Class 37.

Lehn & Fink Products Corporation, Bloomfield, N. J. Lipstick, rouge, nail polish, etc. Serial No. 450,971; Apr. 21. Class 6.

Le Roi Company, West Allis, Wis. Automatic regulators. Serial No. 447,703; Apr. 21. Class 23.

Lipton, Thomas J., Inc., Hoboken, N. J. Tea. Serial Nos. 449,907–10; Apr. 21. Class 46.

Lockport Cotton Batting Co., Lockport, N. Y. Cotton batting or cotton batts. Serial Nos. 451,083–4; Apr. 21. Class 1.

Lubrication Engineering Corporation, Newark, N. J. Lubricating oils and lubricating greases. Serial No. 448,513; Apr. 21. Class 15.

Maher, Charles E., doing business as Style Cemar Co., Chicago, Ill. Dye removing materials, dyeing materials, and fabric finishing materials. Serial No. 451,142; Apr. 21. Class 6.

Mayer, Oscar, & Co., Chicago, Ill. Meat products. Serial No. 445,238; Apr. 21. Class 46.

Mayflower Dress Co., Inc., New York, N. Y. Ladies' and misses' dresses, blouses, suits, etc. Serial No. 451,144; Apr. 21. Class 39.

Metal Specialties Manufacturing Co., Chicago, Ill. Stapling machines, staple removers, paper punches, etc. Serial No. 447,750; Apr. 21. Class 23.
Moretti, Clarence M., doing business as Selve Co., San Francisco, Calif. Selvage strips to be used in crocheting, knitting, punchwork, and weaving. Serial No. 450,185; Apr. 21. Class 43.
Munford, Lolita D., Richmond, Va. Dolls and other toys. Serial No. 448,162; Apr. 21. Class 22.
Nall, Forrest, Kansas City, Mo. Bowling alleys. Serial No. 449,968; Apr. 21. Class 22.
Nyal Company, Detroit, Mich. Vitamin preparation. Serial No. 451,178; Apr. 21. Class 6.
Old Ben Coal Corporation, Chicago, Ill. Coal. Serial No. 451,087; Apr. 21. Class 1.
Pantasote Leather Company, The, Passaic, N. J. Artificial leather. Serial No. 450,918; Apr. 21. Class 50.
Parfums Charbert, Inc., New York, N. Y. Cosmetic mittens. Serial No. 450,424; Apr. 21. Class 6.
Parfums Massenet, Inc., New York, N. Y. Perfumes. Serial No. 449,212; Apr. 21. Class 6.
Parks and Woolson Machine, Springfield, Vt. Cloth finishing machines. Serial No. 450,113; Apr. 21. Class 23.
Perm-Aseptic Co. (See Rampel, Leo J.)
Plymouth Dye Works, Inc., Paterson, N. J. Piece goods in rayon or silk or combination thereof. Serial No. 449,699; Apr. 21. Class 42.
Potomac Engineering Service Company, Chicago, Ill. Physical training structures. Serial No. 450,146; Apr. 21. Class 12.
Rampel, Leo J., doing business as Perm-Aseptic Co., New York, N. Y. Preparation for use on textiles, plastic materials, etc. Serial No. 450,771; Apr. 21. Class 6.
Reichard-Coulston, Inc., New York, N. Y. Oxides of iron having a general use in the industrial arts. Serial No. 451,019; Apr. 21. Class 6.
Remington Rand Inc., Buffalo, N. Y. Typewriters. Serial No. 451,541; Apr. 21. Class 23.
Revlon Products Corporation, New York, N. Y. Enamel adapted for coating finger nails and lipsticks. Serial No. 436,143; Apr. 21. Class 6.
Revlon Products Corporation, New York, N. Y. Enamel adapted for coating finger nails, and lipsticks. Serial No. 451,503; Apr. 21. Class 6.
Rox Products Company. (See Kawerk, Roch D.)
Safeway Stores, Inc., of Nevada, Oakland, Calif. Beverages, syrups and extracts for making. Serial No. 451,120; Apr. 21. Class 45.
Schuckl & Co., Inc., doing business as Sunnyvale Packing Company, San Francisco, Calif. Canned fruits. Serial No. 448,805; Apr. 21. Class 46.
Schumacher, H. H., doing business as B-Z-B Honey Company and also as Bee Line Honey Co., Alhambra, Calif. Honey. Serial No. 447,577; Apr. 21. Class 46.
Schwartz, Dave, New York, N. Y. Wash frocks. Serial No. 444,015; Apr. 21. Class 39.
Selve Co. (See Moretti, Clarence M.)
Sharples Chemicals Inc., Philadelphia, Pa. Chemicals which are alkylated acid amides and substances derived therefrom. Serial No. 451,091; Apr. 21. Class 6.
Silvertex Company, The, Philadelphia, Pa. Men's, boys' and children's coats, vests, pants, etc. Serial No. 449,591; Apr. 21. Class 39.
Squirt Company, The, Beverly Hills, Calif. Beverages and the bases, syrups, etc., and extracts for making same. Serial No. 450,667; Apr. 21. Class 45.
Stein, Joseph, doing business as Joseph Stein Coat Co., New York, N. Y. Ladies' and misses' coats, suits and skirts. Serial No. 450,432; Apr. 21. Class 39.
Stella Cheese Company, Chicago, Ill. Cheese. Serial No. 444,163; Apr. 21. Class 46.
Stokes, Francis C., Company, Vincentown, N. J. Apple juice and canned sweet potatoes. Serial No. 451,324; Apr. 21. Class 46.
Style Cemar Co. (See Maher, Charles E.)
Sunnyvale Packing Company. (See Schuckl & Co., Inc.)
Sutton & Sons Limited, Reading, England. Fertilizers. Serial No. 448,347; Apr. 21. Class 10.
Teca Corporation, New York, N. Y. Dry cell and wet storage batteries, electric current rectifiers, generators, etc. Serial No. 450,249; Apr. 21. Class 21.
Texlite, Incorporated, Dallas, Tex. Porcelain coated metal sheets. Serial Nos. 444,104–5; Apr. 21. Class 12.
Three Winds Dairy. (See Ceballos, Juan M.)
Tivoli Brewing Company, Detroit, Mich. Beer. Serial No. 451,150; Apr. 21. Class 48.
Tradepress Publishing Corporation, Chicago, Ill. Section of a periodical. Serial No. 450,321; Apr. 21. Class 38.
Uddo, Joseph, doing business as Johnson Chemical Co., Brooklyn, N. Y. Disinfectant. Serial No. 443,060; Apr. 21. Class 6.
Union Fork & Hoe Company, The, Columbus, Ohio. Hand operated tools. Serial No. 450,930; Apr. 21. Class 23.
Wartsila-Yhtyma O/Y-Wartsila-Koncernen A/B, Vartsila, Finland. Dairy machinery. Serial No. 449,028; Apr. 21. Class 23.
Wells, S. C., & Company, Leory, N. Y. Laxative. Serial No. 450,436; Apr. 21. Class 6.
Westinghouse Air Brake Company, The, Borough of Wilmerding, Pa. Valves, drill rigs, machines, etc. Serial No. 445,567; Apr. 21. Class 23.
Williams, R. C., & Company, Inc., New York, N. Y. Liqueurs. Serial No. 450,843; Apr. 21. Class 49.
Young, Chas. W., & Co., Philadelphia, Pa. Soap. Serial No. 446,712; Apr. 21. Class 4.

LIST OF REGISTRANTS OF TRADE-MARKS

American Radiator Company, East Orange, N. J., and Chicago, Ill., assignor to American Radiator & Standard Sanitary Corporation, New York, N. Y. Expansion-tanks for heating systems. 153,097; renewed Mar. 14, 1942.
American Safety Razor Corporation. (See Gem Safety Razor Corporation.)
Apel-Joy Co., The, Tonawanda, N. Y. Maltless, non-alcoholic, non-cereal apple beverage and syrup and extracts for making the same. 394,658; Apr. 21; Serial No. 406,167; published Jan. 27, 1942. Class 45.
Barkow, Lillian, doing business as Lillian Barkow, Fifth Avenue, New York, N. Y. Necklaces, bracelets, earrings, etc. 394,707; Apr. 21. Class 28.
Beacon Manufacturing Company, Providence, R. I., to Beacon Manufacturing Company, Swannanoa, N. C. Blankets, comfortables, bath-robe flannel, etc. 157,864; renewed Aug. 22, 1942.
Beatrice Creamery Company, Chicago, Ill. Orangeade. 394,672; Apr. 21; Serial No. 448,848; published Feb. 3, 1942. Class 45.
Bird-Archer Company, The, New York, N. Y. Boiler chemicals. 158,184; renewed Aug. 29, 1942.
Bissell Carpet Sweeper Co., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Carpet sweepers. 153,663; renewed Mar. 28, 1942.
Black Prince Company, Inc., The, Nutley, N. J. Gin. 394,704; Apr. 21. Class 49.
Blaisdell Pencil Company, Philadelphia, Pa. Lead pencils, mechanical pencils, pen-holders, etc. 153,408–9; renewed Mar. 21, 1942.
Blaustein, Wally, New York, N. Y. Perfume, toilet-water, hair lotion, etc. 394,696; Apr. 21. Class 6.
Blumlein, Max, assignor to Elsie F. Blumlein, doing business as Embee Grocery Stores, San Francisco, Calif. Coffee, a blend of chocolate and cocoa, macaroni, and spaghetti. 154,497; renewed Apr. 18, 1942.
Bourjois, A., & Co. Inc., assignor to Bourjois, Inc., New York, N. Y. Rouge. 158,191; renewed Aug. 29, 1942.
Bourjois, A., & Co. Inc., assignor to Bourjois, Inc., New York, N. Y. Rouge, rouge powder, liquid rouge, etc. 158,192; renewed Aug. 29, 1942.
Brookside Distilling Products Corp., Scranton, Pa. Whiskey and gin. 394,669; Apr. 21; Serial No. 448,598; published Feb. 3, 1942. Class 49.
Brookside Distilling Products Corporation, Scranton, Pa. Wines. 394,700; Apr. 21. Class 47.
Canada Dry Ginger Ale, Incorporated, New York, N. Y. Orange soda beverage. 394,674; Apr. 21; Serial No. 449,224; published Feb. 3, 1942. Class 45.
Carreras, Limited, London, England. Cigarettes, smoking tobacco, cigars, etc. 394,694; Apr. 21. Class 17.
Children's Bible Society of America, The, Lexington, Ky. Bibles, pamphlets, literature, etc. 394,679; Apr. 21. Class 38.
Chinoin Gyogyszer és Vegyészeti, Termékek Gyára R. T. (Dr. Kereszty és Dr. Wolf), Ujpest, Hungary. Preparations for distoma. 151,711; renewed Feb. 14, 1942.
Ciba Pharmaceutical Products, Inc. (See Society of Chemical Industry in Basle, assignor.)
City Mills Company, Columbus, Ga. Wheat flour. 153,425; renewed Mar. 21, 1942.
Cleveland Twist Drill Company, The, Cleveland, Ohio. Metal-working small tools. 157,027; renewed July 25, 1942.
College Inn Food Products Company, Chicago, Ill. Vermouth. 394,705; Apr. 21. Class 47.
Colton Press, Inc., New York, N. Y. Publications. 394,699; Apr. 21. Class 38.
Companhia Antarctica Paulisa, Sao Paulo, Brazil. Wines and aperitive wines. 394,658; Apr. 21; Serial No. 445,134; published Jan. 13, 1942. Class 47.
Continental Piston Ring Company, Memphis, Tenn. Metallic piston rings. 394,676; Apr. 21. Class 35.
Crescent Company, assignor, by mesne assignments, to Crescent Company, Inc., New York, N. Y. Sweaters, bathing suits, knitted jackets, etc. 157,858; renewed Aug. 15, 1942.
Cumbow China Decorating Company. (See Ruskin, Mrs. J. Z.)

Driver, Wilbur B., Company, Newark, N. J. Alloys for wires. 394,692; Apr. 21. Class 14.
Du Pont, E. I., de Nemours and Company. (See Société Chimique des Usines Du Rhone, assignor.)
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Pyroxylin and nitrocellulose. 153,155; renewed Mar. 14, 1942.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Dyestuff intermediates. 153,705; renewed Mar. 28, 1942.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Fabrics. 154,015; renewed Apr. 4, 1942.
Ellis, George D., & Sons, Incorporated, Philadelphia, Pa. Tin cans and closures for cans. 158,655; renewed Sept. 12, 1942.
Ely & Walker Dry Goods Company, St. Louis, Mo. Sheets and pillowcases. 153,159; renewed Mar. 14, 1942.
Embee Grocery Stores. (See Blumlein, Max.)
Fahrney, Dr. Peter, & Sons Co., The, Chicago, Ill. Medicinal preparation. 158,434; renewed Sept. 5, 1942.
Florence Pipe Foundry and Machine Company. (See Wood, Walter, assignor.)
Gallagher & Burton, Inc., Philadelphia, Pa. Whiskey. 394,656; Apr. 21; Serial No. 439,100; published Feb. 3, 1942. Class 49.
Gem Safety Razor Corporation, assignor to American Safety Razor Corporation, Brooklyn, N. Y. Razors and razor blades, safety razors, etc. 154,278; renewed Apr. 11, 1942.
General Mills, Inc., Minneapolis, Minn. Ceramic dishes. 394,708; Apr. 21. Class 30.
Gesteira, Dr. Jeronymo, Para, Brazil, assignor to Dr. J. Gesteira, Inc., Detroit, Mich. Medicinal preparation. 156,262; renewed June 20, 1942.
Glenmore Distilleries Co., Owensboro, Ky. Whiskey. 394,667–8; Apr. 21; Serial No. 448,429–30; published Feb. 3, 1942. Class 49.
Grumbacher, Max, assignor to M. Grumbacher, New York, N. Y. Artists' brushes. 158,686; renewed Sept. 12, 1942.
Gusmer, A., Inc., Hoboken, N. J. Asbestos for clarifying beers. 394,681; Apr. 21. Class 50.
Harry E. Coal Company, The, Swoyerville, Pa. Coal. 394,671; Apr. 21; Serial No. 448,721; published Feb. 3, 1942. Class 1.
Hecker-Jones-Jewell Milling Company, assignor to Hecker Products Corporation, and to Standard Milling Company, New York, N. Y. Flours, middlings, corn meal, etc. 151,803; renewed Feb. 14, 1942.
Heddon's, James, Sons, Dowagiac, Mich. Fish bait. 154,046; renewed Apr. 4, 1942.
Historical James River Plantations, Inc., Portsmouth, Va. Chests, tables, beds, etc. 394,702; Apr. 21. Class 32.
Hospital Specialty Co., assignor to The Hospital Specialty Company, Cleveland, Ohio. Sanitary napkins. 154,296; renewed Apr. 11, 1942.
Huyck, F. C., & Sons, Albany, N. Y., to F. C. Huyck & Sons, Rensselaer and Albany, N. Y. Rugs, robes, and overcoating. 155,453; renewed May 30, 1942.
I. C. I. (General Chemicals) Limited. (See United Alkali Co., Ltd., The.)
Ideal Cocoa & Chocolate Co., Lititz, Pa., and New York, N. Y., assignor to Wilbur-Suchard Chocolate Company, Inc., Lititz, Pa. Chocolate coating. 154,583; renewed Apr. 18, 1942.
International Shoe Company. (See Plant, Thomas G., assignor.)
Kee Lox Manufacturing Company, Rochester, N. Y. Carbon paper. 158,715; renewed Sept. 12, 1942.
Kee Lox Manufacturing Company, Rochester, N. Y. Carbon paper. 158,717; renewed Sept. 12, 1942.
Kee Lox Manufacturing Company, Rochester, N. Y. Carbon paper. 158,719; renewed Sept. 12, 1942.
Kelly, Henry, Importing & Distributing Co., Inc., New York, N. Y. Vermouth. 394,663; Apr. 21; Serial No. 447,981; published Feb. 3, 1942. Class 47.
Knowlton, Frederick A., Denver, Colo. Merchandise certificates. 394,655; Apr. 21; Serial No. 423,916; published Feb. 3, 1942. Class 38.
Ko-Va Corporation, Chicago, Ill. Non-alcoholic maltless beverages, and syrups and extracts and concentrates for making the same. 394,661; Apr. 21; Serial No. 446,501; published Feb. 3, 1942. Class 45.
Kraus Bros. & Co., Inc., New York, N. Y. Whiskies, gins and alcoholic cordials. 394,695; Apr. 21. Class 49.
Les Fabriques d'Assortiments Réunies, Le Locle, Switzerland. Linear measuring instruments; gauges for measuring diameters; and thermometers. 394,693; Apr. 21. Class 26.
Lewis, Edmund B., Freemont, Nebr. Deodorizer. 394,701; Apr. 21. Class 6.
Liquid Carbonic Company, The, assignor to The Liquid Carbonic Corporation, Chicago, Ill. Carbonic-acid gas. 154,313; renewed Apr. 11, 1942.
Loew's Incorporated. (See Metro Pictures Corporation, assignor.)
Marshall Field & Company, Chicago, Ill. Men's shorts and pajamas. 394,673; Apr. 21; Serial No. 448,858; published Feb. 3, 1942. Class 39.
Mayer, Frank, doing business as Sunset Valley Orange Co., Chicago, Ill. Beverages made with a fruit juice base. 394,659; Apr. 21; Serial No. 445,428; published Jan. 27, 1942. Class 45.
McMullen-Leavens Co. Inc., New York, N. Y. Men's outer shirts. 158,742; renewed Sept. 12, 1942.
Merck & Co., New York, N. Y., assignor, by mesne assignments, to Rare Chemicals, Inc., Flemington, N. J. Extract of yeast for medicinal purposes. 153,797; renewed Mar. 28, 1942.
Metro Pictures Corporation, New York, N. Y., assignor, by mesne assignments, to Loew's Incorporated, Dover, Del. Motion-picture films. 153,798; renewed Mar. 28, 1942.
Mission Hosiery Mills, A. H. Wittenberg, Inc. (See Stix, Louis, Co., The.)
Monarch Leather Company, Chicago, Ill. Leather. 394,682; Apr. 21. Class 1.
Murray White Company, Boston, Mass. Women's and misses' dresses. 394,684; Apr. 21. Class 39.
National Badminton Company, Boston, Mass. Badminton shuttlecocks. 394,677; Apr. 21. Class 22.
Neumann, Morton G., doing business as Valmor Products Co., Chicago, Ill. Hair dressing pomade having hair coloring properties. 394,688; Apr. 21. Class 6.
Nolan, William F., Butler, Pa. Absorbent tissue paper sheets for use as handkerchiefs. 394,675; Apr. 21. Class 37.
Omaha Flour Mills Co., assignor to Omar Incorporated, Omaha, Nebr. Wheat flour. 157,730; renewed Aug. 15, 1942.
Omar Incorporated. (See Omaha Flour Mills Co., assignor.)
Pacific Mills, Lawrence and Boston, to Pacific Mills, Lawrence, Mass. Cotton piece goods. 156,382–3. Renewed June 20, 1942.
Pacific Mills, Lawrence and Boston, to Pacific Mills, Lawrence, Mass. Cotton piece goods. 157,734; renewed Aug. 15, 1942.
Pacific Mills, Lawrence and Boston, to Pacific Mills, Lawrence, Mass. Cotton piece goods. 158,049–50. Renewed Aug. 22, 1942.
Paparelli, A. J., doing business as San Pedro Drug Co., San Antonio, Tex. Tonics, healing ointments, corn medicines, etc. 394,709; Apr. 21. Class 6.
Pentrathane Products, Inc., Long Island City, N. Y. Crankcase insulation and other insulating coatings for vehicles. 394,660; Apr. 21; Serial No. 446,176; published Jan. 6, 1942. Class 12.
Plant, Thomas G., Company, Boston, Mass., assignor, by mesne assignments, to International Shoe Company, St. Louis, Mo. Boots, shoes, and slippers, etc. 158,774; renewed Sept. 12, 1942.
Poster Stamp Publishing Company, Chicago, Ill. Magazine. 394,678; Apr. 21. Class 38.
Raezer, George B., to George B. Raezer, Lititz, Pa., successor. Medicine. 155,510; renewed May 30, 1942.
Rare Chemicals, Inc. (See Merck & Co., assignor.)
Rat Biscuit Company, The, Springfield, Ohio. Poison for rats, mice and insects. 158,521; renewed Sept. 5, 1942.
Raybestos Company, The, Bridgeport, Conn., assignor to Raybestos-Manhattan, Inc., Passaic, N. J. Brake lining. 157,183; renewed July 28, 1942.
Roots, P. H. & F. M., Co., The, to Roots-Connersville Blower Corporation, Connersville, Ind., successor. Rotary blowers, gas pumps, water pumps, etc. 153,840; renewed Mar. 28, 1942.
Roseth Corporation, The, New York, N. Y. Garment-storage bags. 158,792; renewed Sept. 12, 1942.
Ruskin, Mrs. J. Z., doing business as Cumbow China Decorating Company, Abingdon, Va. Ceramic table and cooking ware, vases, jars, jugs, jardinieres, crocks, cuspidors, etc. 394,665; Apr. 21; Serial No. 448,012; published Jan. 13, 1942. Class 30.
St. Joseph Tent & Awning Co., St. Joseph, Mo. Firemen's heavy duck night coats, pants, etc. 158,106; renewed Aug. 22, 1942.
San Pedro Drug Co. (See Paparelli, A. J.)
Seminole Flavor Company, Chattanooga, Tenn. Carbonated, non-alcoholic, non-cereal, maltless beverages, and syrups. 394,666; Apr. 21; Serial No. 448,375; published Jan. 27, 1942. Class 45.
Seminole Flavor Company, Chattanooga, Tenn. Beverages and flavoring therefor. 394,687; Apr. 21. Class 45.
Shelby Cycle Company, The, Shelby, Ohio. Bicycle action exercising machines. 394,697; Apr. 21. Class 22.
Simplicity Pattern Co., Inc., New York, N. Y. Paper dress patterns. 394,686; Apr. 21. Class 26.
Société Chimique des Usines Du Rhone, Paris, France, assignor, by mesne assignments, to E. I. du Pont de Nemours and Company, Wilmington, Del. Photographic developers. 153,858; renewed Mar. 28, 1942.
Society of Chemical Industry in Basle, Basel, Switzerland. Medicine. 155,836; renewed June 6, 1942.
Society of Chemical Industry in Basle, Basel, Switzerland, assignor to Ciba Pharmaceutical Products, Inc., Summit, N. J. Malt extract. 153,865; renewed Mar. 28, 1942.
Society of Chemical Industry in Basle, Basel, Switzerland, assignor to Ciba Pharmaceutical Products, Inc., Summit, N. J. General tonic. 153,866; renewed Mar. 28, 1942.
Standard Milling Company. (See Hecker-Jones-Jewell Milling Company, assignor.)
Stein Brothers, New York, N. Y. Men's and boys' coats and suits. 394,706; Apr. 21. Class 39.
Stepan Chemical Company, Chicago, Ill. Liquids, powders, pastes, etc. 394,691; Apr. 21. Class 4.

Sterling Brewers, Inc., Evansville, Ind. Ale. 394,670; Apr. 21; Serial No. 448,627; published Jan. 27, 1942. Class 48.
Stewart, Halley, Las Vegas, Nev. Periodical publication. 394,664; Apr. 21; Serial No. 447,988; published Feb. 3, 1942. Class 38.
Stix, Louis, Co., The, Cincinnati, Ohio, assignor, by mesne assignments, to Mission Hosiery Mills, A. H. Wittenberg, Inc., Los Angeles, Calif. 156,330; renewed June 20, 1942.
Stoeger Arms Corporation, New York, N. Y. Publication. 394,657; Apr. 21; Serial No. 444,472; published Feb. 3, 1942. Class 38.
Sunset Valley Orange Co. (See Mayer, Frank.)
Tazineon Sign Manufacturing Company. (See Whitman, Preston Y.)
Tofias, George I., Medfield, Mass. Books, charts, and statistical compilations, etc. 394,698; Apr. 21. Class 38.
Top Notch Dress Company, Boston, Mass. Women's and misses' dresses. 394,685; Apr. 21. Class 39.
United Alkali Co., Ltd., The, Liverpool, by change of name to I. C. I. (General Chemicals) Limited, Millbank, London, England. Caustic soda, chlorates, bleaching powders, etc. 153,167–8; renewed Apr. 4, 1942.
United Paper Company, Tampa, Fla. Wax paper and waxed wrapping papers. 394,689; Apr. 21. Class 37.
United Press Associations, New York, N. Y. Periodicals published monthly. 394,662; Apr. 21; Serial No. 447,772; published Feb. 3, 1942. Class 38.
Valmor Products Co. See Neumann, Morton G.
Weston International Corp., New York, N. Y. Pyrophoric lighters for pipes, cigars and cigarettes. 394,690; Apr. 21. Class 34.
Whaley, Wm. E., doing business as Wm. E. Whaley Company, Louisville, Ky. Printed advertising posters. 394,703; Apr. 21. Class 38.
White, George S., Los Angeles, Calif. Electromedical apparatus. 153,352; renewed Mar. 14, 1942.
White, H. C., Company, assignor to Harrie C. White, North Bennington, Vt. Three and four wheeled coasters. 153,354; renewed Mar. 14, 1942.
Whitman, Preston Y., doing business as Tazineon Sign Manufacturing Company, Birmingham, Ala. Electric signs. 394,680; Apr. 21. Class 21.
Whitney, Charles E., doing business as Whitney Publishing Company, Palisades, N. Y. Magazine. 394,683; Apr. 21. Class 38.
Wilbur Suchard Chocolate Company, Inc. (See Ideal Cocoa & Chocolate Co., assignor.)
Williams, C. K., & Co., Easton, Pa. Dry colors and fillers. 158,862; renewed Sept. 12, 1942.
Winship-Boit Company, Wakefield, Mass. Girdles and pantie girdles. 394,654; Apr. 21; Serial No. 416,753; published May 2, 1939. Class 39.
Wood, Walter, doing business as R. D. Wood & Co., Philadelphia, Pa., assignor to Florence Pipe Foundry and Machine Company, Florence, N. J. Fire hydrants. 157,612; renewed Aug. 8, 1942.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Harry E. Coal Company. 394,671; Apr. 21. Serial No. 448,721; published Feb. 3, 1942.
Leather. Monarch Leather Company. 394,682; Apr. 21.
Pyroxylin and nitrocellulose. E. I. du Pont de Nemours and Company. 153,155; renewed Mar. 14, 1942.

CLASS 2

Bags, Garment-storage. Roseth Corporation. 158,792; renewed Sept. 12, 1942.
Cans and closures for cans, Tin. George D. Ellis & Sons, Incorporated. 158,655; renewed Sept. 12, 1942.

CLASS 4

Liquids, powders, pastes, etc. Stepan Chemical Company. 394,691; Apr. 21.

CLASS 6

Carbonic-acid gas. Liquid Carbonic Company. 154,313; renewed Apr. 11, 1942.
Caustic soda, chlorates, bleaching powders, etc. United Alkali Co., Ltd. 154,167–8; renewed Apr. 4, 1942.
Chemicals, Boiler. Bird-Archer Company. 158,184; renewed Aug. 29, 1942.
Deodorizer. E. B. Lewis. 394,701; Apr. 21.
Dyestuff intermediates. E. I. du Pont de Nemours and Company. 153,705; renewed Mar. 28, 1942.
Extract of yeast for medicinal purposes. Merck & Co. 153,797; renewed Mar. 28, 1942.
Hair dressing pomade having hair coloring properties. M. G. Neumann. 394,688; Apr. 21.
Medicinal preparation. Dr. J. Gesteira. 156,262; renewed June 20, 1942.
Medicinal preparation. Dr. Peter Fahrney & Sons Co. 158,434; renewed Sept. 5, 1942.
Medicine. G. B. Raezer. 155,510; renewed May 30, 1942.
Medicine. Society of Chemical Industry in Basle. 155,836; renewed June 6, 1942.
Perfume, toiletwater, hair lotion, etc. W. Blaustein. 394,696; Apr. 21.
Photographic developers. Société Chimique des Usines Du Rhone. 153,858; renewed Mar. 28, 1942.
Poison for rats, mice, and insects. Rat Biscuit Company. 158,521; renewed Sept. 5, 1942.
Preparations for distoma. Chinoin Gyogyszer és Vegyészeti Termékek Gyára R. T. (Dr. Kereszty és Dr. Wolf). 151,711; renewed Feb. 14, 1942.
Rouge. A. Bourjois & Co. Inc. 158,191; renewed Aug. 29, 1942.
Rouge, rouge powder, liquid rouge, etc. A. Bourjois & Co. Inc. 158,192; renewed Aug. 29, 1942.
Tonic, General. Society of Chemical Industry in Basle. 153,866; renewed Mar. 28, 1942.
Tonics, healing ointments, corn medicines, etc. A. J. Paparelli. 394,709; Apr. 21.

CLASS 11

Carbon paper. Kee Lox Manufacturing Company. 158,715; renewed Sept. 12, 1942.
Carbon paper. Kee Lox Manufacturing Company. 158,717; renewed Sept. 12, 1942.
Carbon paper. Kee Lox Manufacturing Company. 158,719; renewed Sept. 12, 1942.

CLASS 12

Insulation and other insulating coatings for vehicles, Crankcase. Pentrathane Products, Inc. 394,660; Apr. 21; Serial No. 446,176; published Jan. 6, 1942.

CLASS 13

Fire hydrants. W. Wood. 157,612; renewed Aug. 8, 1942.

CLASS 14

Alloys for wires. Wilbur B. Driver Company. 394,692; Apr. 21.

CLASS 16

Colors and fillers, Dry. C. K. Williams & Co. 158,862; renewed Sept. 12, 1942.

CLASS 17

Cigarettes, smoking tobacco, cigars, etc. Carreras, Limited. 394,694; Apr. 21.

CLASS 21

Electric signs. P. Y. Whitman. 394,680; Apr. 21.

CLASS 22

Badminton shuttlecocks. National Badminton Company. 394,677; Apr. 21.
Bait, Fish. James Heddon's Sons. 154,046; renewed Apr. 4, 1942.
Bicycle action exercising machines. Shelby Cycle Company. 394,697; Apr. 21.
Coasters, Three and four wheeled. H. C. White Company. 153,354; renewed Mar. 14, 1942.

CLASS 23

Blowers, gas pumps, water pumps, etc., Rotary. P. H. & F. M. Roots Co. 153,840; renewed Mar. 28, 1942.
Razors and razor blades, safety razors, etc. Gem Safety Razor Corporation. 154,278; renewed Apr. 11, 1942.
Sweepers, Carpet. Bissell Carpet Sweeper Co. 153,665; renewed Mar. 28, 1942.
Tools, Metal-working small. Cleveland Twist Drill Company. 157,027; renewed July 25, 1942.

CLASS 26

Films, Motion-picture. Metro Pictures Corporation. 153,798; renewed Mar. 28, 1942.
Instruments; gauges, for measuring diameters; and thermometers, Linear measuring. Les Fabriques d'Assortiments Réunies. 394,693; Apr. 21.
Patterns, Paper dress. Simplicity Pattern Co. 394,686; Apr. 21.

CLASS 28

Necklaces, bracelets, earrings, etc. L. Barkow. 394,707; Apr. 21.

CLASS 29

Brushes, Artists'. M. Grumbacher. 158,686; renewed Sept. 12, 1942.

CLASS 30

Dishes, Ceramic. General Mills, Inc. 394,708; Apr. 21.
Table and cooking ware, vases, jars, jugs, etc., Ceramic. Mrs. J. Z. Ruskin. 394,665; Apr. 21; Serial No. 448,012; published Jan. 13, 1942.

CLASS 32

Chests, tables, beds, etc. Historical James River Plantations, Inc. 394,702; Apr. 21.

CLASS 34

Lighters for pipes, cigars, and cigarettes, Pyrophoric. Weston International Corp. 394,690; Apr. 21.
Tanks for heating systems, Expansion. American Radiator Company. 153,097; renewed Mar. 14, 1942.

CLASS 35

Brake lining. Raybestos Company. 157,183; renewed July 25, 1942.
Piston rings, Metallic. Continental Piston Ring Company. 394,676; Apr. 21.

CLASS 37

Paper and waxed wrapping papers, Wax. United Paper Company. 394,689; Apr. 21.
Paper sheets for use as handkerchiefs, Absorbent tissue. W. F. Nolan. 394,675; Apr. 21.
Pencils, mechanical pencils, penholders, etc., Lead. Blaisdell Pencil Company. 153,408–9; renewed Mar. 21, 1942.

CLASS 38

Bibles, pamphlets, literature, etc. Children's Bible Society of America. 394,679; Apr. 21.
Books, charts, and statistical compilation, etc. G. I. Tofias. 394,698; Apr. 21.
Certificates, Merchandise. F. A. Knowlton. 394,655; Apr. 21; Serial No. 423,916; published Feb. 3, 1942.
Magazine. Poster Stamp Publishing Company. 394,678; Apr. 21.
Magazine. C. E. Whitney. 394,683; Apr. 21.
Periodicals. United Press Association. 394,662; Apr. 21; Serial No. 447,772; published Feb. 3, 1942.
Printed advertising posters. W. E. Whaley. 394,703; Apr. 21.
Publication. Stoeger Arms Corporation. 394,657; Apr. 21; Serial No. 444,472; published Feb. 3, 1942.
Publication, Periodical. H. Stewart. 394,664; Apr. 21; Serial No. 447,988; published Feb. 3, 1942.
Publications. Colton Press, Inc. 394,699; Apr. 21.

CLASS 39

Boots, shoes, and slippers, etc. Thomas G. Plant Company. 158,774; renewed Sept. 12, 1942.
Coats and suits, Men's and boys'. Stein Brothers. 394,706; Apr. 21.
Coats, pants, etc., Firemen's heavy duck night. St. Joseph Tent & Awning Co. 158,106; renewed Aug. 22, 1942.
Dresses, Women's and misses'. Murray White Company. 394,684; Apr. 21.
Dresses, Women's and misses'. Top Notch Dress Company. 394,685; Apr. 21.
Girdles and pantie girdles. Winship-Boit Company. 394,654; Apr. 21; Serial No. 416,753; published May 2, 1939.
Hosiery. Louis Stix Co. 156,330; renewed June 20, 1942.
Shirts, Men's outer. McMullen-Leavens Co. 158,742; renewed Sept. 12, 1942.
Shorts and pajamas, Men's. Marshall Field & Company. 394,673; Apr. 21; Serial No. 448,858; published Feb. 3, 1942.
Sweaters, bathing suits, knitted jackets, etc. Crescent Company. 157,658; renewed Aug. 15, 1942.

CLASS 42

Blankets, comfortables, bath-robe flannel, etc. Beacon Manufacturing Company. 157,864; renewed Aug. 22, 1942.
Cotton piece goods. Pacific Mills. 156,382–3; renewed June 20, 1942.
Cotton piece goods. Pacific Mills. 157,734; renewed Aug. 15, 1942.
Cotton piece goods. Pacific Mills. 158,049–50; renewed Aug. 22, 1942.
Rugs, robes, and overcoating. F. C. Huyck & Sons. 155,453; renewed May 30, 1942.
Sheets and pillowcases. Ely & Walker Dry Goods Company. 153,159; renewed Mar. 14, 1942.

CLASS 44

Electromedical apparatus. G. S. White. 153,352; renewed Mar. 14, 1942.
Napkins, Sanitary. Hospital Specialty Co. 154,296; renewed Apr. 11, 1942.

CLASS 45

Beverages. F. Mayer. 394,659; Apr. 21; Serial No. 445,428; published Jan. 27, 1942.
Beverages and flavoring therefor. Seminole Flavor Company. 394,687; Apr. 21.
Beverages and syrups, Carbonated, non-alcoholic, non-cereal, maltless. Seminole Flavor Company. 394,666; Apr. 21; Serial No. 448,375; published Jan. 27, 1942.
Beverage and syrup and extracts, Maltless, non-alcoholic, non-cereal apple. Apel-Joy Co. 394,653; Apr. 21; Serial No. 406,167; published Jan. 27, 1942.
Non-alcoholic, maltless beverages and syrups, extracts, and concentrates for making the same. Ko-Va Corporation. 394,661; Apr. 21; Serial No. 446,501; published Feb. 3, 1942.
Orangeade. Beatrice Creamery Company. 394,672; Apr. 21; Serial No. 448,848; published Feb. 3, 1942.
Soda beverage, Orange. Canada Dry Ginger Ale, Incorporated. 394,674; Apr. 21; Serial No. 449,224; published Feb. 3, 1942.

CLASS 46

Chocolate coating. Ideal Cocoa & Chocolate Co. 154,583; renewed Apr. 18, 1942.
Coffee, a blend of chocolate and cocoa, macaroni, and spaghetti. M. Blumlein. 154,497; renewed Apr. 18, 1942.
Flour, Wheat. City Mills Company. 153,425; renewed Mar. 21, 1942.
Flour, Wheat. Omaha Flour Mills Co. 157,730; renewed Aug. 15, 1942.
Flours, middlings, corn meal, etc. Hecker-Jones-Jewell Milling Company. 151,803; renewed Feb. 14, 1942.

CLASS 47

Vermouth. College Inn Food Products Company. 394,705; Apr. 21.
Vermouth. Henry Kelly Importing & Distributing Co. Inc. 394,663; Apr. 21; Serial No. 447,981; published Feb. 3, 1942.
Wines. Brookside Distilling Products Corporation. 394,700; Apr. 21.
Wines and aperitive wines. Companhia Antarctica Paulista. 394,658; Apr. 21; Serial No. 445,134; published Jan. 13, 1942.

CLASS 48

Ale. Sterling Brewers, Inc. 394,670; Apr. 21; Serial No. 448,627; published Jan. 27, 1942.
Malt extract. Society of Chemical Industry in Basle. 153,865; renewed Mar. 28, 1942.

CLASS 49

Gin. Black Prince Company, Inc. 394,704; Apr. 21.
Whiskey. Gallagher & Burton, Inc. 394,656; Apr. 21; Serial No. 439,100; published Feb. 3, 1942.
Whiskey. Glenmore Distilleries Co. 394,667–8; Apr. 21; Serial Nos. 448,429–30; published Feb. 3, 1942.
Whiskey and gin. Brookside Distilling Products Corp. 394,669; Apr. 21; Serial No. 448,598; published Feb. 3, 1942.
Whiskies, gins, and alcoholic cordials. Kraus Bros. & Co. 394,695; Apr. 21.

CLASS 50

Asbestos for clarifying beers. A. Gusmer, Inc. 394,681; Apr. 21.
Fabrics. E. I. du Pont de Nemours and Company. 154,015; renewed Apr. 4, 1942.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 21ST DAY OF APRIL, 1942

NOTE.--Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Bohn, Donald I., Pittsburgh, Pa., and O. K. Marti, Wauwatosa, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electric current converting system. Re. 22,075; Apr. 21.

Cartwright, Charles H., Corning, and A. F. Turner, Rochester, assignors to Research Corporation, New York, N. Y. Decreasing reflection of light from surfaces and articles so produced. Re. 22,076; Apr. 21.

Kitto, William H., Canton, assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. Re. 22,077; Apr. 21.

Locke Insulator Corporation. (See Stevens, Leland J.)

Newman, Ralph C., Corning, and John W. Romig, Rumford, R. I., assignors, by mesne assignments, to Owens-Corning Fiberglas Corporation. Sliver formation. Re. 22,078; Apr. 21.

Owens-Corning Fiberglas Corporation. (See Newman, R. C., and Romig.)

Research Corporation. (See Cartwright, C. H., and Turner.)

Romig, John W. (See Newman, R. C., and Romig.)

Stevens, Leland J., assignor to Locke Insulator Corporation, Baltimore, Md. Bushing. Re. 22,079; Apr. 21.

Turner, Arthur F. (See Cartwright, C. H., and Turner.)

LIST OF DESIGN PATENTEES

Ackerman, A. Jay, Warren, Conn., assignor to New Martinsville Glass Manufacturing Company, New Martinsville, W. Va. Cigarette container. 132,120; Apr. 21.

Ackerman, A. Jay, Warren, Conn., assignor to New Martinsville Glass Manufacturing Company, New Martinsville, W. Va. Cigarette lighter. 132,121; Apr. 21.

Air Line Mfg. Co. (See McCoy, Curtiss J., assignor.)

Anderson, Charles B., assignor of one-half to A. F. Wintercorn, Rockford, Ill. Soap hanger. 132,122; Apr. 21.

Anderson, Charles B., assignor of one-half to A. F. Wintercorn, Rockford, Ill. Soap hanger. 132,123; Apr. 21.

Attayer, Aldon N. D., Highland Park, Pa. Badge or similar article. 132,141; Apr. 21.

Baer, Max, New York, N. Y. Muff. 132,161; Apr. 21.

Baer, Max, New York, N. Y. Muff. 132,162; Apr. 21.

Baer, Max, New York, N. Y. Muff. 132,163; Apr. 21.

Baer, Max, New York, N. Y. Muff. 132,164; Apr. 21.

Balla, Ernesto A., New Bedford, Mass. Surgical knife. 132,142; Apr. 21.

Barker, W. Ira. (See Smith, Harvey J., assignor.)

Barofsky, Jack, Los Angeles, Calif. Ironing machine cabinet. 132,143; Apr. 21.

Brooks, Frances A. (See Lind, Frances.)

Bumiller, George L., Newark, N. J. Identification necklace or the like. 132,136; Apr. 21.

Cadet Smokestands Company. (See Fletcher, Maurice J., assignor.)

Cady, Iver W., Lynwood, Calif. Utility stand. 132,096; Apr. 21.

Chase, Ernest D., Winchester, Mass. Greeting card or similar article. 132,112; Apr. 21.

Chicago Die Casting Manufacturing Company. (See Koch, William P., assignor.)

Clairol, Incorporated. (See Schlicker, Herman C., assignor.)

Clements, Louis F., assignor of one-half to J. B. and L. J. Furstenberg, Denver, Colo. Broom. 132,113; Apr. 21.

Cohn, Irwin E., Leominster, Mass. Plural-note whistle. 132,097; Apr. 21.

Corbett, Joseph R., Sharonville, Ohio, assignor to NuTone Chimes, Inc., New York, N. Y. Utility table. 132,098; Apr. 21.

Davis, David R., assignor to Manta Aircraft Corporation, Los Angeles, Calif. Airplane. 132,146; Apr. 21.

De Hymel, Jean F., Pasadena, Calif. Knockdown doll's table. 132,099; Apr. 21.

Doctor, Isidor, Chicago, Ill. Dress ensemble. 132,147; Apr. 21.

Doctor, Isidor, Chicago, Ill. Dress ensemble. 132,148; Apr. 21.

Dunlap, Gus C., Azusa, Calif. Game board. 132,124; Apr. 21.

Electric Service Supplies Company. (See Hallman, Eric B., assignor.)

Ferry-Morse Seed Co. (See Winslow, Palmer E., assignor.)

Fletcher, Maurice J., assignor to Cadet Smokestands Company, Des Moines, Iowa. Smoking stand. 132,125; Apr. 21.

Furstenberg, John B., et al. (See Clements, Louis F., assignor.)

Furstenberg, Lucie J., et al. (See Clements, Louis F., assignor.)

Gruber, Abe, New York, N. Y. Suit. 132,157; Apr. 21.

Gruber, Abe, New York, N. Y. Suit. 132,158; Apr. 21.

Guild, Lurelle, Noroton, Conn., assignor to Kensington, Incorporated, New Kensington, Pa. Cigarette box or similar article. 132,126; Apr. 21.

Hallman, Eric B., assignor to Electric Service Supplies Company, Philadelphia, Pa. Fluorescent lighting fixture for passenger vehicles. 132,144; Apr. 21.

Hauptman, Oscar, New York, N. Y. Coat. 132,152; Apr. 21.

Holstein, Alexander E., et al. (See Holstein, David M., assignor.)

Holstein, David M., assignor to A. E., P. M., and D. M. Holstein, and M. Winkelstein, Syracuse, a copartnership doing business under the firm name of Syracuse Ornamental Co., Onondago County, N. Y. Playing card holder and dispenser. 132,137; Apr. 21.

Holstein, David M., assignor to A. E., P. M., and D. M. Holstein, and M. Winkelstein, a copartnership doing business as Syracuse Ornamental Co., Syracuse, N. Y. Playing card box and dispenser. 132,138; Apr. 21.

Holstein, Philip M., et al. (See Holstein, David M., assignor.)

Ipsen, Harold N., Rockford, Ill. Combined plate and saucer. 132,100; Apr. 21.

Jones, Raymond P., Dillon, Mont. Service plaque. 132,127; Apr. 21.

Kensington, Incorporated. (See Guild, Lurelle, assignor.)

King, Wallin W., Los Angeles, Calif. Pair of spectacles. 132,114; Apr. 21.

Koch, William P., Chicago, Ill., assignor to Chicago Die Casting Manufacturing Company. Fruit juice extractor. 132,149; Apr. 21.

Lind, Frances, and F. A. Brooks, New York, N. Y. Textile fabric. 132,115; Apr. 21.

Linden, Max, New York, N. Y. Suit. 132,159; Apr. 21.

Little, Cecil D. (See Melton, A. M., and Little.)

Lundy, William J., assignor to Olean Glass Company, Olean, N. Y. Bottle. 132,128; Apr. 21.

Mackey, John W., assignor to Paden City Pottery Company, Paden City, W. Va. Plate or similar article. 132,101; Apr. 21.

Mackey, John W., assignor to Paden City Pottery Company, Paden City, W. Va. Plate or similar article. 132,102; Apr. 21.

Maloney, Helen C., Green Bay, Wis. Brooch. 132,129; Apr. 21.

Manta Aircraft Corporation. (See Davis, David R., assignor.)

McCoy, Curtiss J., assignor to Air-Line Mfg. Co., Inc., Indianapolis, Ind. Airplane kite. 132,103; Apr. 21.

Mead, Lydia, New York, N. Y. Uniform dress. 132,150; Apr. 21.

Melton, Alves M. and C. D. Little, Ventura, Calif. Game board. 132,130; Apr. 21.

Morton, Rosa L., Birmingham, Ala. Doll cradle. 132,104; Apr. 21.

Mull, Arthur B., Chicago, Ill., assignor of one-half to Spotswood Specialty Company, Inc., Lexington, Ky. Suction cup dart. 132,131; Apr. 21.

Narrow Fabric Company, The. (See Welch, Jean L., assignor.)

New Martinsville Glass Manufacturing Company. (See Ackerman, A. Jay, assignor.)

New York & Brooklyn Casket Co. (See Zaiser, William, assignor.)

NuTone Chimes, Inc. (See Corbett, Joseph R., assignor.)

Olean Glass Company. (See Lundy, William J., assignor.)

Olsen, William, New Haven, Conn., assignor of one-half to H. W. Russell, Collingswood, N. J. Plaque or similar article. 132,132; Apr. 21.

Olsen, William, New Haven, Conn., and H. W. Russell, Collingswood, N. J. Plaque or similar article. 132,133; Apr. 21.

Paden City Pottery Company. (See Mackey, John W., assignor.)
Pennypacker, Margaret, New York, N. Y. Dress. 132,153; Apr. 21.
Peterson, Isaac, Oakland, Calif. Counter stool or similar article. 132,105; Apr. 21.
Potts, Grover C., Big Spring, Tex. Badge or the like. 132,134; Apr. 21.
Price, Charles S., Hollis, N. Y. Artificial miniature Christmas tree. 132,145; Apr. 21.
Rigney, William H., Lafayette, R. I., assignor to A. Sterzelback & Sons Co., New York, N. Y. Textile fabric. 132,135; Apr. 21.
Rothstein, William J., New York, N. Y. Picture frame. 132,139; Apr. 21.
Russell, Howard W. (See Olsen, William, assignor.)
Russell, Howard W. (See Olsen, W., and Russell.)
Russell, William J., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Handle for electric irons and the like. 132,154; Apr. 21.
Schlicker, Herman C., Brooklyn, N. Y., assignor to Clairol, Incorporated, Stamford, Conn. Combined hair winding key and smoothing pin. 132,140; Apr. 21.
Shotland, Abraham, New York, N. Y. Suit. 132,160; Apr. 21.
Silverstein, Hary, New York, N. Y. Slack suit. 132,155; Apr. 21.
Smith, Harvey J., assignor to W. I. Harker, Danville, Va. Combined display rack, oil saver, and waste can receptacle. 132,151; Apr. 21.
Spotswood Specialty Company. (See Mull, Arthur B., assignor.)
Steinhardt, Irving, New York, N. Y. Key ring. 132,116; Apr. 21.
Sterzelbach, A., & Sons Co. (See Rigney, William H., assignor.)
Steuwer, Frank, Cincinnati, Ohio. Calendar. 132,117; Apr. 21.
Syracuse Ornamental Co. (See Holstein, David M.)
Thompson, Lester O., Oklahoma City, Okla. Set of numerals. 132,118; Apr. 21.
Troffkin, Rubin, New York, N. Y. Coat. 132,156; Apr. 21.
Welch, Jean L., assignor to The Narrow Fabric Company, West Reading, Pa. Stocking or similar article. 132,119; Apr. 21.
Westinghouse Electric & Manufacturing Company. (See Russell, William J., assignor.)
Winkelstein, Moses, et al. (See Holstein, David M., assignor.)
Winslow, Palmer E., assignor to Ferry-Morse Seed Co., Detroit, Mich. Seed packet display device. 132,106; Apr. 21.
Wintercorn, Andrew F. (See Anderson, Charles B., assignor.)
Zaiser, William, Rockville Center, assignor to New York & Brooklyn Casket Co., Brooklyn, N. Y. Burial casket. 132,107; Apr. 21.
Zaiser, William, Rockville Center, assignor to New York & Brooklyn Casket Co., Brooklyn, N. Y. Burial casket. 132,108; Apr. 21.
Zaiser, William, Rockville Center, assignor to New York & Brooklyn Casket Co., Brooklyn, N. Y. Burial casket. 132,109; Apr. 21.
Zaiser, William, Rockville Center, assignor to New York & Brooklyn Casket Co., Brooklyn, N. Y. Burial casket. 132,110; Apr. 21.
Zaiser, William, Rockville Center, assignor to New York & Brooklyn Casket Co., Brooklyn, N. Y. Burial casket. 132,111; Apr. 21.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 21ST DAY OF APRIL, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrams, Morris, et al. (See Whisk, Samuel, assignor.)
Acco Products, Inc. (See Brennan, Daniel A., assignor.)
Ackerman, George H., Webster Groves, assignor to Missouri Rolling Mill Corporation, St. Louis, Mo. Clamp. 2,280,361; Apr. 21.
Adler, Rudolf, London, England. Producing activated carbon. 2,280,611; Apr. 21.
Agerell, William C., and A. C. Mueller, assignors to Pines Winterfront Company, Chicago, Ill. Radiator and radiator shutter assembly. 2,280,642; Apr. 21.
Ahearn, Edmond J. (See Johnson, Clarence H., assignor.)
Ainsworth, Raymond C., and M. B. Schultz, Denver, Colo. Hydraulic oil fuel pressure device. 2,280,362; Apr. 21.
Air Reduction Company. (See Hughey, H. G., and Sylvester, assignors.)
Aktiengesellschaft Brown, Boveri & Cie. (See Thommen, Hans, assignor.)
Alburger, James R., Merion, Pa., assignor to Radio Corporation of America. Reversible motion picture camera. 2,280,737; Apr. 21.
Alexander, Frederick A. D., and C. E. Martin, Albany, assignors to The Foregger Company, Inc., New York, N. Y. Resuscitator. 2,280,050; Apr. 21.
Allis-Chalmers Manufacturing Company. (See Bohn, D. I., and Marti, assignors.)
Allis-Chalmers Manufacturing Company. (See Bronaugh, J., assignor.)
Allis-Chalmers Manufacturing Company. (See Stein, Harold J., assignor.)
Altgelt, Rudolph J., South Bend, Ind., assignor to Oliver Farm Equipment Company. Plow. 2,280,681; Apr. 21.
Aluminum Company of America. (See Sharp, John E., assignor.)
Aluminum Company of America. (See Stephenson, Thomas I., Jr., assignor.)
Aluminum Company of America. (See Stroup, Philip T., assignor.)
American Brake Shoe and Foundry Company, The. (See Mantle, Burr W., assignor.)
American Can Company. (See Widell, Magnus E., assignor.)
American Chain & Cable Company. (See Reyburn, John R., assignor.)
American Chemical Paint Company. (See Saukaitis, Albert J., assignor.)
American Cyanamid Company. (See Kropa, E. L., and Bradley, assignors.)
American Cyanamid Company. (See Patterson, Donald G., assignor.)
American Cyanamid Company. (See Roblin, Richard O., Jr., assignor.)
American Engineering Company. (See Lamond, Robert C., assignor.)
American Laundry Machinery Company, The. (See Frey, Lester C., assignor.)
American Merri-Lei Corporation. (See Hoeflich, Victor T., assignor.)
American Metal Company. (See Jones, Thomas R., assignor.)
American Optical Company. (See Neumueller, J. F., and Taylor, assignors.)
American Optical Company. (See Tillyer, Edgar D., assignor.)
American Rock Wool Corporation. (See Drill, Daniel C., assignor.)
American Seating Company. (See Nordmark, Henry P., assignor.)
American Steel Foundries. (See Cottrell, Robert B., assignor.)
American Steel Foundries. (See Flesch, Norman, assignor.)
American Steel Foundries. (See Glick, Edward G., assignor.)
Amos, Thomas J., Rome, assignor to W. E. Dellinger, Floyd County, Ga. Tufting attachment. 2,280,277; Apr. 21.
Amos, Thomas J., Rome, assignor to W. E. Dellinger, Floyd County, Ga. Tufting machine. 2,280,278; Apr. 21.
Andersen, Bjorn, Maplewood, N. J., assignor, by mesne assignments, to Celanese Corporation of America. Transparent plastic materials. 2,280,055; Apr. 21.
Anderson Box Company. (See Schaefer, Norbert F., assignor.)
Anderson, Jasper E., Saugus, Mass., assignor to General Electric Company. Automatic arc welding machine. 2,280,770; Apr. 21.
Anderson, John E. (See Martin, E., Anderson, and Beebe.)
Andersson, Sven W. E., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,280,051; Apr. 21.
Andis, Mathew, Racine, Wis., assignor to Andis Clipper Co., Racine, Wis. Shearing and shaving head for hair clippers. 2,280,363; Apr. 21.
Andis Clipper Co. (See Andis, Mathew, assignor.)
Andrews, Charles R., High Bridge, and G. R. Hanks, Clinton, assignors to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Dredge bucket. 2,280,141; Apr. 21.
Andrews, Lewis D., assignor to Stackpole Carbon Company, St. Marys, Pa. Developing apparatus. 2,280,113; Apr. 21.
Andros, Nicholas, Los Angeles, Calif. Food service instrument. 2,280,612; Apr. 21.
Antibus, Frederick M., Jr., and H. D. Caylor, assignors to C. & G. Potts & Co., Indianapolis, Ind. Brick machine mold trimmer. 2,280,276; Apr. 21.
Anxionnaz, René, Paris, and R. Imbert, Mantes, assignors of one-half to said R. Imbert and one-half to Société Rateau, Paris, France. Gas turbine thermic engine. 2,280,765; Apr. 21.
Arey, Ralph G., Swampscott, Mass., assignor to General Electric Company. Recorder. 2,280,613; Apr. 21.
Armour and Company. (See Fischer, Norman C., assignor.)
Armour and Company. (See Plambeck, Peter D., assignor.)
Associated Patentees, Inc. (See Koch, Frederick, assignor.)
Athy, Clifford R., assignor to International-Stacey Corporation, Columbus, Ohio. Safety switch for well pumping units. 2,280,114; Apr. 21.
Atkinson, Flavius W. (See Slayter, G., Atkinson, Fletcher, and Smith.)
Atlantic Refining Company, The. (See Reuter, Raymond, assignor.)
Atteslander, Edouard, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland. Vibration dampening device. 2,280,364; Apr. 21.
Austin, Ellsworth W., Cedar Rapids, Iowa. Vehicle storage device. 2,280,567; Apr. 21.
Automatic Drive & Transmission Company. (See Morton, W. D., and Haupt, assignors.)
Automatic Shifters, Inc. (See Snow, Herbert C., assignor.)
Automatic Telephone & Electric Company. (See Terroni, Teseo B. D., assignor.)
Avey Drilling Machine Company, The. (See McKee, George K., assignor.)
Ayars, Harry D., Philadelphia, Pa. Filling machine. 2,280,614; Apr. 21.
Bace, Charles N., River Edge, assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Directional antenna. 2,280,738; Apr. 21.
Bahr, Gustave F., Fairfield, assignor to Casco Products Corporation, Bridgeport, Conn. Shaving machine. 2,280,052; Apr. 21.
Baier, Willard E., Ontario, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Bottling beverages. 2,280,365; Apr. 21.
Baker, Roy C., Buffalo, Wyo. Down marker for football. 2,280,682; Apr. 21.
Baldwin Locomotive Works, The. (See Essl, Max, assignor.)
Baldwin, Wayne A., Watertown, N. Y., assignor to The New York Air Brake Company. Backup valve. 2,280,615; Apr. 21.
Ball, Charles F., Wauwatosa, assignor to Chain Belt Company, Milwaukee, Wis. Water supply system for concrete mixers. 2,280,518; Apr. 21.
Ball, James W., Logansport, Ind. Gas burner and control unit therefor. 2,280,739; Apr. 21.
Ballard, Archibald H. (See Ridgway, R. R., and Ballard.)
Barab, Jacob, Wilmington, Del. Reversible explosive. 2,280,366; Apr. 21.
Barlow & Seelig Mfg. Co. (See Schroeder, Simon E., assignor.)
Barnes, Donald A., Akron, Ohio. Mechanism for cutting potato chips or the like. 2,280,053; Apr. 21.
Barrett, Daniel J., Jr., Mount Vernon, and L. G. Pacent, New York, N. Y.; said Pacent assignor to said Barrett. Radio receiver. 2,280,465; Apr. 21.
Barton, William W., Kansas City, Mo. Electric heater. 2,280,367; Apr. 21.
Baskerville, Ralph J., Yeadon, Pa., assignor to General Electric Company. Electric circuit breaker. 2,280,616; Apr. 21.

Bassett, Francis P., Kenmore, N. Y., assignor to Curtiss-Wright Corporation. Aircraft cockpit enclosure. 2,280,368; Apr. 21.
Bayles, John W., Sunderland, assignor to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England. Resistance welding machine. 2,280,369; Apr. 21.
Beaumont Birch Company. (See Davenport, William G., assignor.)
Beaupre, Rene J. (See Beck, N., and Goodman, assignors.)
Beck, Julius S., Los Angeles, Calif. Adjustable liner for well casings. 2,280,054; Apr. 21.
Beck, Morris B., Lawrence, N. Y. Lighting fixture. 2,280,505; Apr. 21.
Beck, Nelson, and N. Goodman, North Hollywood, assignors of one-third to R. J. Beaupre, West Los Angeles, Calif. Container and holder for air guns. 2,280,519; Apr. 21.
Becker, Frank M. (See Kirch, C. E., MacLelland, and Becker.)
Bedford, Alda V., Collingswood, N. J. Automatic clutch. 2,280,683; Apr. 21.
Beebe, Murray C. (See Martin, E., Anderson, and Beebe.)
Belar, Herbert, Philadelphia, Pa., assignor to Radio Corporation of America. Sound recording apparatus. 2,280,740; Apr. 21.
Bell & Howell Company, The. (See Stechhart, Bruno, assignor.)
Bell, Richard T., Outremont, Quebec, Canada. Moisture determining apparatus. 2,280,617; Apr. 21.
Bell Telephone Laboratories, Incorporated. (See King, Archie P., assignor.)
Bell Telephone Laboratories, Incorporated. (See Kinkead, F. S., and Krecek, assignors.)
Bell Telephone Laboratories, Incorporated. (See Kreer, John G., Jr., assignor.)
Bell Telephone Laboratories, Incorporated. (See Matthews, Emil C., assignor.)
Bell Telephone Laboratories, Incorporated. (See Mitchell, Doren, assignor.)
Bell Telephone Laboratories, Incorporated. (See O'Leary, Joseph T., assignor.)
Bell Telephone Laboratories, Incorporated. (See Pearson, Gerald L., assignor.)
Bell Telephone Laboratories, Incorporated. (See Reynolds, Frederick W., assignor.)
Bell Telephone Laboratories, Incorporated. (See Richard, Charles D., assignor.)
Bell Telephone Laboratories, Incorporated. (See Smith, Phillip H., assignor.)
Bendix Aviation Corporation. (See Scott, Lloyd H., assignor.)
Bendix Home Appliances, Inc. (See Scott, R. W., and McCollum, assignors.)
Bennett, Charles E., Ridgwood, N. J. Joint for non-metallic pipe and gaskets therefor. 2,280,163; Apr. 21.
Bennett, Franklin P., Seattle, Wash. Expansible chuck. 2,280,370; Apr. 21.
Bernard, Arthur A. (See Hasse, F. C., and Bernard.)
Bernhardt, Rudolph, Chicago, Ill. Machine for chopping nut meats. 2,280,211; Apr. 21.
Berres, Carl. (See Muller, W., and Berres.)
Berry, Charles E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Method and apparatus for effecting particle size reduction. 2,280,619; Apr. 21.
Besson, Raoul, Paris, France, assignor to General Electric Company. Electric gaseous discharge device. 2,280,618; Apr. 21.
Bethlehem Steel Company. (See Wilson, Tom, assignor.)
Betts, Richard T., New York, N. Y. Surgical dressing. 2,280,506; Apr. 21.
Bienert, Berthold, and S. Gassner, Leverkusen-I. G.-Werk, Germany, assignors to General Aniline & Film Corporation, New York, N. Y. Phthalocyanine dyestuffs. 2,280,507; Apr. 21.
Binns, George W., and F. J. Theler, assignors to Cincinnatic Grinders Incorporated, Cincinnati, Ohio. Apparatus for finishing tubular articles. 2,280,620; Apr. 21.
Biro, Vincent G., Marblehead, Ohio. Meat cutting machine. 2,280,621; Apr. 21.
Birtman Electric Company. (See Sparklin, Charles H., assignor.)
Bishop, Leroy, Vista, Calif. Adjustable guide for refrigerator shelves. 2,280,371; Apr. 21.
Black, Arthur F., Charlotte, N. C., assignor to Myles Salt Company, New Orleans, La. Dissolving apparatus. 2,280,466; Apr. 21.
Black, Harold R., Toledo, Ohio, assignor to Libbey Glass Company. Preheating chamber for decorating lehrs. 2,280,306; Apr. 21.
Blanc, Marinette, New York, assignor to Picardy Mills, Inc., Brooklyn, N. Y. Glove. 2,280,467; Apr. 21.
Blengull, Helmer L. (See McKee, R. H., and Blengull.)
Bliss, E. W., Company. (See Klocke, William, assignor.)
Boeing Aircraft Company. (See Price, Nathan C., assignor.)
Bohmer, Clarence I. (See Jaeger, G., and Bohmer.)
Bolster, Ronald H., and G. C. Vanderberg, assignors to Clark Equipment Company, Buchanan, Mich. Axle. 2,280,741; Apr. 21.
Booth, Thomas O. (See Miller, L. H., and Booth.)
Botansky, Solly. (See Cammisano, Arnold D., assignor.)
Bouchard, Eugene L. (See Lafreniere, Lauran, assignor.)
Bousquet, L'Roche G., Baldwin, and M. J. Brooks, assignors to General Chemical Company, New York, N. Y. Manufacture of sulphuric acid. 2,280,508; Apr. 21.
Bowers, Oliver O., assignor of one-third to J. D. James, and one-third to N. W. Day, Cape Girardeau, Mo. Rotary internal combustion engine. 2,280,742; Apr. 21.
Bowers, Thomas A., Mattapoisett, assignor to Power Research Corporation, Boston, Mass. Piston ring device. 2,280,743; Apr. 21.
Bowers, Thomas A., Mattapoisett, assignor to Power Research Corporation, Boston, Mass. Scavenger piston ring. 2,280,744; Apr. 21.
Bowers, Thomas A., Mattapoisett, assignor to Power Research Corporation, Boston, Mass. Slotted piston ring. 2,280,745; Apr. 21.
Bowman, Louis G., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo. Blind stitch sewing machine for binding carpets. 2,280,468; Apr. 21.
Bowman, Oliver. (See Kinsey, L. R., and Bowman.)
Boyles, John H., assignor to The Dellinger Spread Company, Rome, Ga. Tufting machine. 2,280,212; Apr. 21.
Bradford Penn Refining Corporation. (See Nevitt, Albert R., assignor.)
Bradley, Theodore F. (See Kropa, E. L., and Bradley.)
Bradner, George E., et al. (See Drabick, Fred F., assignor.)
Brallsford, George H. (See Penfold, C. S., Johnson, and Brallsford.)
Brauer, Walter, Oklahoma City, Okla. Well pump. 2,280,279; Apr. 21.
Brennan, Daniel A., Chicago, Ill.; E. L. Zwickel, executor of said D. A. Brennan, deceased, assignor to Acco Products, Inc., Long Island City, N. Y. Fastener. 2,280,184; Apr. 21.
Breseka, Rudolph S., Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Spindle feed. 2,280,469; Apr. 21.
Brewin, Frank. St. Louis County, assignor to International Shoe Company, St. Louis, Mo. Shoe. 2,280,622; Apr. 21.
Bridges, Dennis G., assignor to Dowty Equipment Limited, Cheltenham, England. Retractable undercarriage for aircraft and locking means therefor. 2,280,185; Apr. 21.
Bridges, Walter, Chelsea, London, England. Treatment of metals. 2,280,470; Apr. 21.
Bridges, Walter, Chelsea, London, and A. J. Chambers, Ewell, assignors to The Projectile & Engineering Company, Limited, Battersea, London, England. Apparatus employed in the hardening and tempering of armor-piercing projectiles and the like. 2,280,471; Apr. 21.
Briggs Manufacturing Company. (See Koppinger, Nicholas G., assignor.)
Briggs & Stratton Corporation. (See Jacobi, Edward N., assignor.)
British Oxygen Company Limited, The. (See Stephenson, Arthur, assignor.)
Broders, Claude E., and V. Gauvreau, Detroit, Mich.; said Broders assignor to said Gauvreau. Drilling machine. 2,280,115; Apr. 21.
Broekhuysen, William C., Brooklyn, N. Y., assignor to International Cigar Machinery Company. Vibrator mechanism for tobacco feeds and the like. 2,280,056; Apr. 21.
Bromley, Thomas C., and A. Shortland, Leicester, England. Fabric drawing-off mechanism for knitting machines. 2,280,472; Apr. 21.
Bronaugh, Joseph, Richmond, Va., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Control system. 2,280,766; Apr. 21.
Bronner, Cleveland, Sr., Norwalk, Conn. Producing light effects. 2,280,684; Apr. 21.
Brooks, Maxwell J. (See Bousquet, L'R. G., and Brooks.)
Broomfield, Frank, Ridgewood, N. J., assignor of one-half to C. L. Wahl, New York, N. Y. Game or toy of skill. 2,280,623; Apr. 21.
Brown, Allie W., Elgin, Kans. Terrace building apparatus. 2,280,473; Apr. 21.
Brown & Bigelow. (See Trollen, Martin E., assignor.)
Brown, Elisabeth, Plainfield, N. J. Lamp shade. 2,280,213; Apr. 21.
Brown Instrument Company, The. (See Harrison, Thomas R., assignor.)
Brown Instrument Company, The. (See Keeler, Earl A., assignor.)
Brown Instrument Company. (See Ullman, Roy, assignor.)
Brown, Ray W., assignor to The General Tire & Rubber Company, Akron, Ohio. Wheel. 2,280,568; Apr. 21.
Brown and Sharpe Manufacturing Company. (See Levesque, George M., assignor.)
Bruce Products Corporation. (See Garling, Rosner A., assignor.)
Brunson, Amber N., Kansas City, Mo. Support for surveying instrument telescopes. 2,280,057; Apr. 21.
Bruson, Herman A., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. Cyanoethylation of carbocyclic compounds. 2,280,058; Apr. 21.

Brustowsky, Morris, Brooklyn, N. Y., assignor to U. S. Slicing Machine Company, La Porte, Ind. Bread slicing machine. 2,280,059; Apr. 21.
Bryant, James E., Escalon, Calif. Locking device for brake bleed valve. 2,280,752; Apr. 21.
Buckley, Raymond F., East Cleveland, Ohio. Massage cap. 2,280,624; Apr. 21.
Budd Induction Heating, Inc. (See Somes, Howard E., assignor.)
Buerk, Eugene, Milwaukee, Wis. Juice extractor. 2,280,214; Apr. 21.
Burger, Frederick W., Niles, assignor to Clark Equipment Company, Buchanan, Mich. Wheel. 2,280,746; Apr. 21.
Burgess Battery Company. (See Coffey, Cyril L., assignor.)
Burk, Robert E., and E. C. Hughes, Cleveland Heights, assignors to The Standard Oil Company, Cleveland, Ohio. Cake-inhibiting catalyst. 2,280,060; Apr. 21.
Burt, Guy H., Edgewood, R. I. Socket. 2,280,747; Apr. 21.
Byrkit, Gordon D., W. L. Steiner, and B. H. Lincoln, Ponca City, Okla., assignors, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Lubricating oil. 2,280,474; Apr. 21.
Byrkit, Gordon D., W. L. Steiner, and B. H. Lincoln, Ponca City, Okla., assignors, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Lubricating oil. 2,280,475; Apr. 21.
Byron Jackson Co. (See Hollander, A., and Hoover, assignors.)
Byron Jackson Co. (See Mullinix, Gird E., assignor.)
Caldwell, Stuart H., assignor to Kelch Heater Company, Detroit, Mich. Signal. 2,280,186; Apr. 21.
Calhoun, Van B., Baton Rouge, La., assignor to Standard Oil Development Company. Isomerization of normal paraffins. 2,280,748; Apr. 21.
California Fruit Growers Exchange. (See Baier, Willard E., assignor.)
Calvert, Harold N., Carrollton, Mo. Support for rural mail boxes, road markers, and the like. 2,280,476; Apr. 21.
Camilli, Guglielmo, Pittsfield, Mass., assignor to General Electric Company. Transformer. 2,280,625; Apr. 21.
Cammisano, Arnold D., assignor of one-third to S. Botansky, Chicago, Ill. Electric switch. 2,280,215; Apr. 21.
Campbell, Richard H., assignor to Webster Electric Company, Racine, Wis. Communication system. 2,280,280; Apr. 21.
Campbell, William B., Montreal, Quebec, O. Maass, Westmont, Quebec, and E. E. Massey, Montreal, Quebec, assignors to Imperial Tobacco Company of Canada, Limited, Montreal, Quebec, Canada. Impregnating fibrous materials. 2,280,216; Apr. 21.
Carlson, Elmer, Wetaskiwin, Alberta, Canada. Agricultural implement. 2,280,372; Apr. 21.
Carlson, Bert G., Freeport, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Automatic means for caging gyroscopes. 2,280,116; Apr. 21.
Carpenter, Fred A., Berkeley, Calif. High-low pressure pumping system. 2,280,626; Apr. 21.
Carson, Benjamin R., Camden, N. J., assignor to Radio Corporation of America. Phonograph. 2,280,685; Apr. 21.
Carter, James C., Jr. (See Hays, Jack, assignor.)
Carter, William J., Avonmouth, assignor to National Processes Limited, London, England. Rotproofing of textiles, paper, and other fibrous materials. 2,280,477; Apr. 21.
Cartter, William G., and F. E. Wood, Monrovia, Calif. Radiant mantle. 2,280,061; Apr. 21.
Casco Products Corporation. (See Bahr, Gustave F., assignor.)
Case, Nelson P., Great Neck, N. Y., assignor to Hazeltine Corporation. Carrier-signal receiver. 2,280,187; Apr. 21.
Caylor, Harry D. (See Antibus, F. M., Jr., and Caylor.)
Celanese Corporation of America. (See Andersen, Bjorn, assignor.)
Celanese Corporation of America. (See Dreyfus, Henry, assignor.)
Celanese Corporation of America. (See Moss, William H., assignor.)
Certain-teed Products Corporation. (See Meyer, Paul E., assignor.)
Chain Belt Company. (See Ball, Charles F., assignor.)
Chambers, Arthur J. (See Bridges, W., and Chambers.)
Champion Aviation Products Company. (See Hodges, Vera C., assignor.)
Chance, A. B., Company. (See Hubbard, David C., assignor.)
Chaney, James D., Jersey City, N. J. Machine for cutting soap. 2,280,373; Apr. 21.
Chapman, Verni J., Schenectady, N. Y., assignor to General Electric Company. Automatic arc welding apparatus. 2,280,627; Apr. 21.
Chapman, Verni J., Schenectady, N. Y., assignor to General Electric Company. Arc welding apparatus. 2,280,628; Apr. 21.
Chapman, Verni J., Schenectady, N. Y., assignor to General Electric Company. Arc welding apparatus. 2,280,629; Apr. 21.
Chappell, Vere C., Greece, assignor to General Railway Signal Company, Rochester, N. Y. Radio telephone system. 2,280,420; Apr. 21.
Chappell, Vere C., Greece, and O. H. Dicke, assignors to General Railway Signal Company, Rochester, N. Y. Radio telephone system. 2,280,421; Apr. 21.
Chase-Shawmut Company, The. (See Wood, Morris B., assignor.)
Chemische Fabrik von Heyden A. G. (See Muller, R., and Lee, assignors.)
Chéron, René N., Juan-les-Pins, Alpes-Maritimes, France. Assembling tubular elements. 2,280,509; Apr. 21.
Chilton, Roland, Ridgewood, N. J., assignor to Wright Aeronautical Corporation. Controllable pitch propeller. 2,280,374; Apr. 21.
Chilton, Roland, Ridgewood, N. J., assignor to Wright Aeronautical Corporation. Piston mechanism. 2,280,375; Apr. 21.
Cincinnati Grinders Incorporated. (See Binns, G. W., and Theler, assignors.)
Cincinnati Milling Machine Company, The. (See Martellotti, Mario E., assignor.)
Cincinnati Mine Machinery Company, The. (See Stenger, Edwin P., assignor.)
Cisin, Harry G., Brooklyn, N. Y. Electronic circuit. 2,280,630; Apr. 21.
Cities Service Oil Company. (See Sullivan, Alan P., assignor.)
Clark, Dudley B., Palm Springs, assignor to General Electronics Corporation, Long Beach, Calif. Electric valve converting system. 2,280,749; Apr. 21.
Clark Equipment Company. (See Bolster, R. H., and Vanderberg, assignors.)
Clark Equipment Company. (See Burger, Frederick W., assignor.)
Clark, Louis F., Montebello, Calif. Machine for playing tennis and the like. 2,280,376; Apr. 21.
Clarke, John A., Jr., La Grange, Ill., assignor to General Motors Corporation, Detroit, Mich. Disconnecting and reverse mechanism. 2,280,377; Apr. 21.
Clayton, Harold H., assignor to R-B-M Manufacturing Company, Logansport, Ind. Circuit breaker. 2,280,281; Apr. 21.
Cleveland Graphite Bronze Company, The. (See Swartz, C. E., and Schwartz, assignors.)
Cloud, Gould H., Elizabeth, N. J., assignor to Standard Oil Development Company. Super-Diesel fuel. 2,280,217; Apr. 21.
Clutsom, Charles, St. Michaels, Ashby-de-la-Zouch, England. Loom with stationary weft supplies. 2,280,478; Apr. 21.
Coffey, Cyril L., Melbourne, Victoria, Australia, assignor, by mesne assignments, to Burgess Battery Company, Chicago, Ill. Facing sheet for sound absorbing material. 2,280,631; Apr. 21.
Cohen, Abraham, Brooklyn, N. Y. Garment. 2,280,479; Apr. 21.
Colchester, Christopher D., Sanderstead, and A. T. Starr, Chelmsford, England, assignors to Radio Corporation of America. Electrical coupling circuits. 2,280,282; Apr. 21.
Coleman, Beecher. (See Phipps, Jesse B., assignor.)
Collins, John O. (See Paulsen, H. C., and Collins.)
Columbus Auto Parts Company, The. (See Flumerfelt, William A., assignor.)
Colwell, Archie T., assignor to Thompson Products, Incorporated, Cleveland, Ohio. Making engine poppet valves. 2,280,686; Apr. 21.
Combustion Engineering Company. (See Kanowitz, Samuel B., assignor.)
Connelly, John A., Southern Pines, N. C. Portable house. 2,280,687; Apr. 21.
Consolidated Edison Company of New York, Inc. (See Gorman, L. J., and Morris, assignors.)
Cook, George E., Long Island City, assignor to U-Need-A-Pak Products Corporation, Brooklyn, N. Y. Four column ejector. 2,280,216; Apr. 21.
Cooke, Allen B., Danville, Ill., assignor to United Autographic Register Co. Attachment for tabulating machines. 2,280,219; Apr. 21.
Cooley, Austin G., New York, and G. V. V. Dillenback, Jr., Slingerlands, assignors, by mesne assignments, to Times Telephoto Equipment Inc., New York, N. Y. Electro-optical transmission system and apparatus. 2,280,688; Apr. 21.
Corn Products Refining Company. (See Schoch, Thomas J., assignor.)
Cottrell, Robert B., assignor to American Steel Foundries, Chicago, Ill. Draft gear. 2,280,428; Apr. 21.
Courtney, John F., Florence, S. C., assignor of one-half to C. J. Velare, and one-half to E. C. Velare, Chicago, Ill. Amusement apparatus. 2,280,643; Apr. 21.
Cowin, Stuart H., Chicago, Ill., assignor to General Motors Corporation, Detroit, Mich. Generating electric drive and control system. 2,280,378; Apr. 21.
Cox, Hamett H., Houston, Tex. Oil filter. 2,280,480; Apr. 21.
Crafts, Walter. (See Critchett, J. H., and Crafts.)
Crafts, Walter, Niagara Falls, N. Y., assignor to Electro Metallurgical Company. Deep hardening boron steels 2,280,283; Apr. 21.
Craig, Robert S., Robbinsdale, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Motorised mechanism. 2,280,062; Apr. 21.

Cram, Hervey G., assignor to P. D. Cram, Appleton, Wis. Consistency regulator. 2,280,632; Apr. 21.
Cram, P. D. (See Cram, Hervey G., assignor.)
Cramer, Raymond H., Newark, N. J., assignor to General Motors Corporation, Detroit, Mich. Honing machine and method. 2,280,379; Apr. 21.
Crane, Carl J., and R. K. Stout, Dayton, Ohio. Draft correction modulated beam. 2,280,117; Apr. 21.
Crane Co. (See Smith, Watt V., assignor.)
Crawford, Arthur R. (See Lundberg, G. E., and Crawford.)
Crawford, Robert B. P., Athens, Ga. Air conditioning. 2,280,633; Apr. 21.
Critchett, James H., Douglaston, and W. Crafts, Niagara Falls, N. Y., assignors to Electro Metallurgical Company. Method and agent for treating iron and steel. 2,280,063; Apr. 21.
Critchett, James H., Douglaston, and W. Crafts, Niagara Falls, N. Y., assignors to Electro Metallurgical Company. Method and agent for treating iron and steel. 2,280,284; Apr. 21.
Critchett, James H., Douglaston, and W. Crafts, Niagara Falls, N. Y., assignors to Electro Metallurgical Company. Method and agent for treating molten iron and steel. 2,280,285; Apr. 21.
Critchett, James H., Douglaston, and W. Crafts, Niagara Falls, N. Y., assignors to Electro Metallurgical Company. Addition agent and its use in the treatment of iron and steel. 2,280,286; Apr. 21.
Crosby, Howard T., Los Angeles, Calif. Adjustable support for building structures. 2,280,220; Apr. 21.
Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Frequency modulation receiver. 2,280,569; Apr. 21.
Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Variable band width receiver. 2,280,570; Apr. 21.
Currie, William E. (See Pier, Mathias, assignor.)
Curtis Companies Incorporated. (See Madsen, Sern, assignor.)
Curtiss-Wright Corporation. (See Bassett, Francis P., assignor.)
Curtiss-Wright Corporation. (See Harder, J. B., and Steele, assignors.)
Curtiss-Wright Corporation. (See McKee, James H., assignor.)
Curtiss-Wright Corporation. (See Trudell, Charles P., assignor.)
Cushman, Abe L., Concord, N. H. Routing machine. 2,280,481; Apr. 21.
Daimler-Benz Aktiengesellschaft. (See Meiswinkel, Samuel, assignor.)
Dambach, Emil W., Jr., Willow Grove, Pa. Serving apparatus. 2,280,221; Apr. 21.
Daniels, Albert J., Shrewsbury, Mass. Glazing construction. 2,280,142; Apr. 21.
Dann, Charles W., East Orange, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Multicircuit switch. 2,280,143; Apr. 21.
Dannenbaum, Hans. (See Inhoffen, H. H., Logemann, and Dannenbaum.)
Das, Peter, Peekskill, N. Y. Combination fuel distributing, speed governing and starting device for Diesel engines. 2,280,222; Apr. 21.
Davenport, Frank E., Geneva, Iowa. Tire removing tool. 2,280,380; Apr. 21.
Davenport, William G., assignor to Beaumont Birch Company, Philadelphia, Pa. Drag scraper bucket. 2,280,520; Apr. 21.
Davis, Harold G., Denver, Colo. Shoe rack. 2,280,381; Apr. 21.
Davis, Helen L., Kenosha, Wis. Vacuum cleaner nozzle. 2,280,751; Apr. 21.
Davis, Theophilus A., Los Angeles, Calif. Racket handle. 2,280,382; Apr. 21.
Day, Norman W. (See Bowers, Oliver O., assignor.)
De Baufre, William L., Lincoln, Nebr. Method and apparatus for extracting an auxiliary product of rectification. 2,280,383; Apr. 21.
Defender Photo Supply Co. (See Potter, R. S., and Hagaman, assignors.)
De Lancey, Warren H., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Liquid dispensing apparatus. 2,280,287; Apr. 21.
Dellinger Spread Company, The. (See Boyles, John H., assignor.)
Dellinger, W. E. (See Amos, Thomas J., assignor.)
Denneen, Francis S., Cleveland, and W. C. Dunn, Shaker Heights, assignors to The Ohio Crankshaft Company, Cleveland, Ohio. Inductive heating apparatus. 2,280,064; Apr. 21.
Denneen, Francis S., Cleveland, and W. C. Dunn, Shaker Heights, assignors to The Ohio Crankshaft Company, Cleveland, Ohio. Making composite article. 2,280,689; Apr. 21.
De Roode, Trimble, New York, N. Y. Vehicle. 2,280,065; Apr. 21.
Derr, Willard A., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Signaling system. 2,280,144; Apr. 21.
Despatch Shops, Inc. (See Steuber, George A., assignor.)
Dicke, Oscar H. (See Chappell, V. C., and Dicke.)
Dickerson, Dorman B., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Emergency foot brake lever. 2,280,644; Apr. 21.
Dickson, John, Ferndale, assignor to General Motors Corporation, Detroit, Mich. Engine balancing. 2,280,384; Apr. 21.
Dickson, John, Ferndale, assignor to General Motors Corporation, Detroit, Mich. Bearing. 2,280,385; Apr. 21.
Dickson, John, Ferndale, assignor to General Motors Corporation, Detroit, Mich. Combined engine cylinder valve and fuel injector. 2,280,386; Apr. 21.
Diehm, Robert A., Appleton, Wis., assignor to Röhm & Haas Company, Philadelphia, Pa. Manufacturing paper. 2,280,307; Apr. 21.
Dienner, John A. (See Torquist, Earl L., assignor.)
Dillenback, Garett V. V., Jr. (See Cooley, A. G., and Dillenback, Jr.)
Dilworth, Richard M., Hinsdale, Ill., assignor to General Motors Corporation, Detroit, Mich. Door operator. 2,280,387; Apr. 21.
Dionisotti, Joseph, Monthey, Valais, Switzerland. Furnace. 2,280,571; Apr. 21.
Divco-Twin Truck Company. (See Mead, Lynn D., assignor.)
Dombrow, Bernard A., New York, N. Y., assignor to National Oil Products Company, Harrison, N. J. Sulphonation. 2,280,118; Apr. 21.
Dorst, James A., U. S. Army, Columbus, Ohio. Draghead for dredging apparatus. 2,280,066; Apr. 21.
Dough-King, Inc. (See Gardner, Stephen A., assignor.)
Douglas, H. A., Mfg. Co. (See Penfold, C. S., Johnson, and Brailsford, assignors.)
Downing, Frank B., Sr., Wilkes-Barre, Pa. Head for use on preformed strand and wire rope machines. 2,280,188; Apr. 21.
Dowty Equipment Limited. (See Bridges, Dennis G., assignor.)
Drabick, Fred F., assignor of one-third to G. E. Bradner, and one-third to H. O. Landon, Seattle, Wash. Lower margin indicator for typewriters. 2,280,145; Apr. 21.
Dreyfus, Henry, London, England, assignor to Celanese Corporation of America. Transparent closure and the like. 2,280,482; Apr. 21.
Drill, Daniel C., assignor to American Rock Wool Corporation, Wabash, Ind. Applying an adhesive coating to newly formed mineral wool fibers. 2,280,388; Apr. 21.
Dritz-Traum Company, Inc. (See Traum, David, assignor.)
Dulaney, Paul L., assignor to The Huenefeld Company, Cincinnati, Ohio. Wick-type oil burner. 2,280,690; Apr. 21.
Du Mont, Allen B., Laboratories, Inc. (See Bace, Charles N., assignor.)
Du Mont, Allen B., Laboratories, Inc. (See Hall, Norman C., assignor.)
Dümpelmann, Richard, and P. Ehlers, Frankfort-on-the-Main, Germany. Coated electrode and welding rod. 2,280,223; Apr. 21.
Dunn, William C. (See Denneen, F. S., and Dunn.)
Du Pont, E. I., de Nemours & Company. (See Berry, Charles E., assignor.)
Du Pont, E. I., de Nemours & Company. (See Hanford, W. E., and Salzberg, assignors.)
Du Pont, E. I., de Nemours and Company. (See Krchma, Ignace J., assignor.)
Duran, John A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Safety mechanism for nailing machines. 2,280,189; Apr. 21.
Duryea, O. C., Corporation. (See Duryea, Otho C., assignor.)
Duryea, Otho C., Waterbury, Conn., assignor to O. C. Duryea Corporation, Wilmington, Del. Car construction. 2,280,146; Apr. 21.
Eaton Manufacturing Company. (See Voorhies, Carl, assignor.)
Edelmann, Louis, Springfield Gardens, N. Y. Stepladder. 2,280,691; Apr. 21.
Edison, Thomas A., Incorporated. (See Dann, Charles W., assignor.)
Edison, Thomas A., Incorporated. (See Fritzinger, George H., assignor.)
Edwards, Harold, assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Window construction. 2,280,389; Apr. 21.
Edwards, O. M., Company, The. (See Edwards, Harold, assignor.)
Eggert, John, Leipzig, and H. F. Nissen, Dessau, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Endless bands of film and reproducing apparatus for its use. 2,280,067; Apr. 21.
Ehlers, Paul. (See Dumpelmann, R., and Ehlers.)
Elberty, Robert S., Jr., assignor to Landis Tool Company, Waynesboro, Pa. Size regulator. 2,280,692; Apr. 21.
Electro Metallurgical Company. (See Crafts, Walter, assignor.)
Electro Metallurgical Company. (See Critchett, J. H., and Crafts, assignors.)
Embree, Leland F. (See Embree, Vern W. and L. F.)
Embree, Vern W. and L. F., Onida, S. Dak. Vehicle passenger safety device. 2,280,694; Apr. 21.
Emerson, Merton L., Braintree, Mass. Film live-filing system. 2,280,750; Apr. 21.

Ensign Carburetor Co. Ltd. (See Ensign, Paul W., assignor.)
Ensign, Paul W., San Marino, assignor to Ensign Carburetor Co. Ltd., Huntington Park, Calif. Pressure regulator. 2,280,390; Apr. 21.
Ernst, Walter, Mount Gilead, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del. Self-centering servomotor. 2,280,190; Apr. 21.
Esko, George, Esko, Minn. Motor cleaner. 2,280,510; Apr. 21.
Essl, Max, Norwood, Pa., assignor, by mesne assignments, to The Baldwin Locomotive Works. Housing and support for engine camshafts. 2,280,753; Apr. 21.
Euth, John E., Chicago, Ill., assignor to United Autographic Register Co. Carbon delcaving machine. 2,280,224; Apr. 21.
Evans, John, Palmyra, N. J., assignor to Radio Corporation of America. Apparatus for and method of modulating waves. 2,280,693; Apr. 21.
Farnsworth, Philo T., San Francisco, Calif., assignor, by mesne assignments, to Farnsworth Television & Radio Corporation, Dover, Del. Scanning means and method. 2,280,572; Apr. 21.
Farnsworth Television & Radio Corporation. (See Farnsworth, Philo T., assignor.)
Ferguson, Robert V., Amarillo, Tex. Internal combustion engine. 2,280,645; Apr. 21.
Ferragano, Dominick, Albany, N. Y. Universal grip holder for rubbing tools. 2,280,767; Apr. 21.
Fibres Associates, Inc. (See von Kohorn zu Kornegg, Oscar, assignor.)
Finely, Josie C., Seattle, Wash. Kitchen utensil. 2,280,225; Apr. 21.
Finkle, Donald H., Los Angeles, Calif. Clamp. 2,280,403; Apr. 21.
Firestone, Floyd A., Ann Arbor, Mich. Flaw detecting device and measuring instrument. 2,280,226; Apr. 21.
Fischer, Norman C., Springfield, Mo., assignor to Armour and Company, Chicago, Ill. Preparation of egg products. 2,280,147; Apr. 21.
Fisher, Ulrich. (See Murray, J. F., and Fisher.)
Flaws, John, Jr., Cleveland Heights, Ohio, assignor to General Electric Company. Filament transporting method and apparatus. 2,280,573; Apr. 21.
Flesch, Norman, assignor to American Steel Foundries, Chicago, Ill. Brake arrangement. 2,280,754; Apr. 21.
Fletcher, Ed. (See Slayter, G., Atkinson, Fletcher, and Smith.)
Flumerfelt, William A., assignor to The Columbus Auto Parts Company, Columbus, Ohio. Joint construction. 2,280,634; Apr. 21.
Ford, George E., assignor to Rochester Manufacturing Co. Incorporated, Rochester, N. Y. Oven thermometer. 2,280,393; Apr. 21.
Ford Instrument Company. (See Kenngott, Robert L., assignor.)
Foregger Company, The. (See Alexander, F. A. D. and Martin, assignors.)
Forest Products Treating Division of Nebraska Bridge Supply & Lumber Company. (See Meyers, Cyril L., assignor.)
Forse, Harry D., Anderson, Ind. Multiple buck pressing machine. 2,280,288; Apr. 21.
Forse, Harry D., Anderson, Ind. Boiler feed water supply system. 2,280,574; Apr. 21.
Forsyth, Harry, Prosser, Wash. Poultry roost. 2,280,511; Apr. 21.
Foster, Dudley E., South Orange, N. J., assignor to Radio Corporation of America. Radio receiver. 2,280,521; Apr. 21.
Foster, Dudley E., South Orange, N. J., assignor to Radio Corporation of America. Television circuits. 2,280,695; Apr. 21.
Foster Wheeler Corporation. (See Frisch, Martin, assignor.)
Franck, Kurt. (See Rolph, T. W., and Franck.)
Franklin, Lawrence W., Hasbrouck Heights, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Electronic repeater. 2,280,308; Apr. 21.
Freeman, Robert L. (See Wheeler, H. A., and Freeman.)
French, Henry C., assignor to The Heil Co., Milwaukee, Wis. Road scraper. 2,280,696; Apr. 21.
Frey, Lester C., Cincinnati, assignor to The American Laundry Machinery Company, Norwood, Ohio. Motion checking or snubbing device. 2,280,404; Apr. 21.
Frisch, Martin, assignor to Foster Wheeler Corporation, New York, N. Y. Apparatus for applying extended surface elements to the tubes of heat exchange devices. 2,280,068; Apr. 21.
Fritzinger, George H., Orange, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph. 2,280,575; Apr. 21.
Frölich, Alfred. (See Schneider, W., and Frölich.)
Frostad, George O., Milwaukee, Wis. Packaging soda straws. 2,280,405; Apr. 21.
Fruehauf Trailer Company. (See Reid, Frederick M., assignor.)
Fryckstrom, Chester W., and V. A. Nelson, Portland, Oreg. Tire recapping machine. 2,280,401; Apr. 21.
Gaines, Nathaniel, South Orange, N. J. Shower curtain. 2,280,697; Apr. 21.
Gallagher, John P. (See Ishman, William T., assignor.)
Gardner, Paul N., Bethesda, Md. Drying time recorder. 2,280,483; Apr. 21.
Gardner, Stephen A., assignor to Dough-King, Inc., Minneapolis, Minn. Doughnut machine. 2,280,148; Apr. 21.
Garling, Rosner A., Lansing, assignor to Bruce Products Corporation, Detroit, Mich. Buffing wheel. 2,280,399; Apr. 21.
Garlius, Bernt. (See Knott, F. W., and Garlius.)
Gassner, Sebastian. (See Bienert, B., and Gassner.)
Gauvreau, Victor. (See Broders, C. E., and Gauvreau.)
Gazin, Felix H., Rome, N. Y. Light projector. 2,280,406; Apr. 21.
Geier, P. A., Company, The. (See Martinet, Eugene F., assignor.)
General Aniline & Film Corporation. (See Bienert, B., and Gassner, assignors.)
General Aniline & Film Corporation. (See Eggert, J., and Nissen, assignors.)
General Aniline & Film Corporation. (See Gumlich, Walter, assignor.)
General Aniline & Film Corporation. (See Muller, W., and Berres, assignors.)
General Aniline & &Film Corporation. (See Schilling, A., Schneider, and Wilmanns, assignors.)
General Aniline & Film Corporation. (See Zerweck, W., and Schutz, assignors.)
General Chemical Company. (See Bousquet, L'R. G., and Brooks, assignors.)
General Electric Company. (See Anderson, Jasper E., assignor.)
General Electric Company. (See Arey, Ralph G., assignor.)
General Electric Company. (See Baskerville, Ralph J., assignor.)
General Electric Company. (See Besson, Raoul, assignor.)
General Electric Company. (See Camilli, Guglielmo, assignor.)
General Electric Company. (See Chapman, Verni J., assignor.)
General Electric Company. (See Flaws, John, Jr., assignor.)
General Electric Company. (See Hahn, Clarence E., assignor.)
General Electric Company. (See Hansen, Siegfried, assignor.)
General Electric Company. (See Masterson, C. T., and Potter, assignors.)
General Electric Company. (See Meridith, George H., assignor.)
General Electric Company. (See Norgaard, Donald E., assignor.)
General Electric Company. (See Smitley, Wayne C., assignor.)
General Electric Company. (See Somerville, Gareth G., assignor.)
General Electric Company. (See Steenstrup, Christian, assignor.)
General Electronics Corporation. (See Clark, Dudley B., assignor.)
General Motors Corporation. (See Clarke, John A., Jr., assignor.)
General Motors Corporation. (See Cowin, Stuart H., assignor.)
General Motors Corporation. (See Cramer, Raymond H., assignor.)
General Motors Corporation. (See Dickson, John, assignor.)
General Motors Corporation. (See Dilworth, Richard M., assignor.)
General Motors Corporation. (See Olley, M., and Gibson, assignors.)
General Railway Signal Company. (See Chappell, Vere C., assignor.)
General Railway Signal Company. (See Chappell, V. C., and Dicke, assignors.)
General Tire & Rubber Company. (See Brown, Ray W., assignor.)
General Tire & Rubber Company, The. (See Kraft, Herman T., assignor.)
Gentry, Cecil R., Oklahoma City, Okla. Human hoist. 2,280,396; Apr. 21.
Gerber, John G., assignor to E. P. Reed & Co., Rochester, N. Y. Sewing machine. 2,280,289; Apr. 21.
Germain, Albert J., and A. J., Haverhill, Mass. Machine for applying folded strip. 2,280,069; Apr. 21.
Germain, Andrew J. (See Germain, Albert J. and A. J.)
Gerst, Joseph J., Fullerton, Md. Power operated hand tool. 2,280,149; Apr. 21.
Gibson, George F. (See Olley, M., and Gibson.)
Gilbert & Barker Manufacturing Company. (See De Lancey, Warren H., assignor.)
Gillespie, Bruce G., Cranford, N. J., assignor to Standard Oil Development Company. Refining of petroleum distillates. 2,280,227; Apr. 21.
Gillette Safety Razor Company. (See Muros, Joseph, assignor.)
Glick, Edward G., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Snubber. 2,280,429; Apr. 21.
Glocker, Gustave, assignor to Super-Seal Container Corporation, Washington, D. C. Container and closure therefor. 2,280,070; Apr. 21.
Glodde, Herman. (See Stehle, C. F., and Glodde.)

Glover, Alan M., East Orange, N. J., assignor to Radio Corporation of America. Electron beam discharge device. 2,280,28; Apr. 21.
Glück, Istvàn, Budapest, Hungary. Changing the expression of face. 2,280,576; Apr. 21.
Glynn, Edwin A., Lodi, Calif., assignor to Super Mold Corporation of California. Method of and means for removing a tire from a mold. 2,280,430; Apr. 21.
Goodman, Nolan. (See Beck, N., and Goodman.)
Gorman, Lawrence J., Bogota, N. J., and R. L. Morris, Richmond Hill, N. Y., assignors to Consolidated Edison Company of New York, Inc., New York, N. Y. Method and apparatus for electrically testing protective coatings and the like. 2,280,119; Apr. 21.
Gosstrom, Hugo, Dallas, Tex. Device for truing up shafts. 2,280,646; Apr. 21.
Goyette, Lucien A., Lowell, Mass., assignor to Scott & Williams, Incorporated, Laconia, N. H. Circular knitting machine. 2,280,698; Apr. 21.
Graber, William, Brooklyn, N. Y. Coat. 2,280,120; Apr. 21.
Graham, Frank O., assignor to Temprite Products Corporation, Detroit, Mich. Valve device. 2,280,309; Apr. 21.
Grant, Francis R., El Dorado, and C. F. Wright, Gurdon, assignors to Lion Oil Refining Company, El Dorado, Ark. Laminating and adhesive. 2,280,699; Apr. 21.
Graver, Philip S., Chicago, Ill., assignor to Graver Tank & Mfg. Co., Inc., Catasauqua, Pa. Balancing weight for expansion roofs. 2,280,768; Apr. 21.
Graver Tank & Mfg. Co. (See Graver, Philip S., assignor.)
Graver Tank & Mfg. Co. (See McCandless, Bernard B., assignor.)
Graver Tank & Mfg. Co. (See Wilkin, L. A., and Smith, assignors.)
Gray, John E. (See Parker, W. M., and Gray, Robert A. and J. E.)
Gray, Robert A. (See Parker, W. M., and Gray, Robert A. and J. E.)
Green, Maurice, Patchway, near Bristol, England. Apparatus for detecting and/or preventing ice formation. 2,280,400; Apr. 21.
Green, Nathaniel P., University City, Mo. Structural joint. 2,280,121; Apr. 21.
Greppin, Ernest H., Brighton, assignor to Wilmot Castle Company, Rochester, N. Y. Dental operating lamp. 2,280,402; Apr. 21.
Grindle, Aubrey J., Chicago, Ill. Pulverized fuel storing and feeding apparatus. 2,280,394; Apr. 21.
Groene, William F., and H. J. Siekmann, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Multiple spindle broaching lathe. 2,280,229; Apr. 21.
Groene, Willard L., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Crankshaft broaching lathe. 2,280,230; Apr. 21.
Guggolz, John F., Cameron, Tex. Oil filter. 2,280,577; Apr. 21.
Gulley, Charles C., Lexington, Ky. Portable back rest. 2,280,231; Apr. 21.
Gümlich, Walter, Leverkusen-Schlebusch, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Reclaiming of rubber. 2,280,464; Apr. 21.
Guterman, Abraham S. (See Van Tassel, Edward D., Jr., assignor.)
Haddock, Norman H., Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Substituted phthalocyanines. 2,280,072; Apr. 21.
Hagaman, Seward. (See Potter, R. S., and Hagaman.)
Hagerstrom, John A., Cranford, and J. F. Hagerstrom, Elizabeth, N. J. Universal die implement. 2,280,701; Apr. 21.
Hagerstrom, John F. (See Hagerstrom, John A. and J. F.)
Hahn, Clarence E., Euclid, Ohio, assignor to General Electric Company. Apparatus for feeding cylindrical metal shells. 2,280,522; Apr. 21.
Hall, Joseph M., Chicago, Ill. Method and apparatus for dehydrating liquid products. 2,280,073; Apr. 21.
Hall, Norman C., Caldwell, assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Pointer for dials. 2,280,700; Apr. 21.
Halsall, Thomas M., assignor to Toyad Corporation, Latrobe, Pa. Manufacture of hollow articles. 2,280,074; Apr. 21.
Hamilton, George C., McComb, Miss. Laminated flooring. 2,280,071; Apr. 21.
Handley, George F., Glendale, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 2,280,702; Apr. 21.
Hanford, William E., and P. L. Salzberg, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Amides of aliphatic polycarbothionic acids and their preparation. 2,280,578; Apr. 21.
Hanks, George R. (See Andrews, C. B., and Hanks.)
Hansen, Julius E., Rochester, N. Y. Truss. 2,280,295; Apr. 21.
Hansen, Siegfried, Schenectady, N. Y., assignor to General Electric Company. Electrical wave analysis. 2,280,524; Apr. 21.
Harcos, Aladar, Los Angeles, Calif. Fishing tool. 2,280,422; Apr. 21.
Harder, James B., Buffalo, and F. I. Steele, Kenmore, N. Y., assignors to Curtiss-Wright Corporation. Heater control. 2,280,407; Apr. 21.
Hardy, James H., Artesia, Miss. Rooding surface. 2,280,579; Apr. 21.
Hardwick, Christopher L., Cleveland, Tenn. Door clamping device. 2,280,122; Apr. 21.
Harrington, Ferris T. (See Herman, K. R., and Harrington.)
Harris, Albert T., New York, N. Y. Calculating device. 2,280,485; Apr. 21.
Harris, William A., Greenville, assignor to The South Carolina National Bank of Charleston, Greenville, S. C., trustee. Coin controlled mechanism for dispensing machines. 2,280,580; Apr. 21.
Harrison, Thomas R., Wyncote, assignor to The Brown Instrument Company, Philadelphia, Pa. Power set flow meter. 2,280,233; Apr. 21.
Hart, Fred E., Los Angeles, Calif. Toothbrush holder. 2,280,431; Apr. 21.
Hart, Russell, Los Angeles, Calif. Process for granulating metals. 2,280,703; Apr. 21.
Hartley, Vincent, Greenfield, England. Light-screening device for lamps. 2,280,581; Apr. 21.
Harvey, Christian M., Cleburne, Tex. Spreader. 2,280,234; Apr. 21.
Harvey, Lewis A., Ashtabula, Ohio. Swab. 2,280,398; Apr. 21.
Hasbrouck, Harold J., Jr., Merchantville, N. J., assignor to Radio Corporation of America. Phonographic apparatus. 2,280,763; Apr. 21.
Haseltine, Stacy B., La Grange, assignor to W. H. Miner, Inc., Chicago, Ill. Refrigerator car door. 2,280,232; Apr. 21.
Hasse, Franklin C., and A. A. Bernard, Chicago, Ill., assignors to The Linde Air Products Company. Heating of metals. 2,280,150; Apr. 21.
Hathaway, Everett G. (See Quinn, E., and Hathaway.)
Hauff, John W., Akron, Ohio. Portable extension lamp. 2,280,523; Apr. 21.
Haupt, William E. (See Morton, W. D., and Haupt.)
Hawes, Harold B., Fairfield, Conn. Structural curb or wall. 2,280,647; Apr. 21.
Hays, Jack, assignor of one-half to J. C. Carter, Jr., Tompkinsville, Ky. Tobacco leaf hanger. 2,280,391; Apr. 21.
Hayward, John T., Tulsa, Okla. Detection of gas in drilling fluids. 2,280,075; Apr. 21.
Hayward, John T., Tulsa, Okla. Gas detection. 2,280,086; Apr. 21.
Hazeltine Corporation. (See Case, Nelson P., assignor.)
Hazeltine Corporation. (See Hergenrother, Rudolf C., assignor.)
Hazeltine Corporation. (See Wheeler, H. A., and Freeman, assignors.)
Hazeltine Corporation. (See Wilson, John C., assignor.)
Heil Co., The. (See French, Henry C., assignor.)
Hemming, Harold, Dedham, and C. W. Peterson, West Roxbury, assignors to B. F. Sturtevant Company, Hyde Park, Boston, Mass. Refrigeration apparatus. 2,280,512; Apr. 21.
Hendy, Aline E., Flora, Ill. Modeling instrument. 2,280,486; Apr. 21.
Hercules Powder Company. (See Ray, Philip A., assignor.)
Hergenrother, Rudolf C., Beechhurst, N. Y., assignor to Haseltine Corporation. Cathode-ray signal-reproducing unit. 2,280,191; Apr. 21.
Herman, Kenneth R., and F. T. Harrington, assignors to Vickers Incorporated, Detroit, Mich. Power transmission. 2,280,392; Apr. 21.
Hexamer, Homer L., assignor to The Timken Roller Bearing Company, Canton, Ohio. Thermic telltale. 2,280,755; Apr. 21.
Heylandt, Christian W. P., Berlin-Britz, Germany. Compound expansion internal-combustion engine. 2,280,487; Apr. 21.
High, Le Roy B., assignor to The Udylite Corporation, Detroit, Mich. Preparing ω-trihalogen substituted butyraldehydes. 2,280,290; Apr. 21.
Hochstetler, Melvin A. (See Pletcher, M. C., and Hochstetler.)
Hodges, Vera C., assignor to H. P. Lester, T. B. Smallwood, and V. C. Hodges, partners doing business as Champion Aviation Products Company, Los Angeles, Calif. Starter mechanism. 2,280,432; Apr. 21.
Hodges, Vera C., et al. (See Hodges, Vera C., assignor.)
Hoe, R., & Co. (See Quick, C. G., and Whitehead, assignors.)
Hoellich, Victor T., assignor to American Merri-Lei Corporation. New York, N. Y. Manufacturing noise makers. 2,280,582; Apr. 21.
Hollander, Aladar, and V. A. Hoover, Los Angeles, assignors to Byron Jackson Co., Huntington Park, Calif. Pumping apparatus. 2,280,087; Apr. 21.
Holloway, Daniel E., Inglewood, and J. S. Smithson, Beverly Hills, Calif., assignors to North American Aviation, Inc. Aircraft cockpit enclosure. 2,280,583; Apr. 21.
Holophane Company. (See Rolph, T. W., and Franck, assignors.)
Homan, Edward C., East Orange, assignor to Irvington Varnish & Insulator Co., Irvington, N. J. Coating sheet material. 2,280,433; Apr. 21.

Honegger, John A., assignor to Specialties Manufacturing Company, Inc., Bloomfield, N. J. Container or capsule for highly compressed fluid media. 2,280,088; Apr. 21.
Hoover Company, The. (See Kitto, William H., assignor.)
Hoover, Vaino A. (See Hollander, A., and Hoover.)
Hopkins, Arthur G., Maspeth, assignor to National Can Corporation, New York, N. Y. Pouring spout container. 2,280,123; Apr. 21.
Horn, Harry J., assignor to Motor Wheel Corporation, Lansing, Mich. Locking ring for wheels. 2,280,584; Apr. 21.
Houdaille-Hershey Corporation. (See Dickerson, Dorman B., assignor.)
Houdry, Eugène J., Ardmore, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Catalytic converter and heat exchange unit therefor. 2,280,089; Apr. 21.
Houdry Process Corporation. (See Houdry, Eugène J., assignor.)
Houdry Process Corporation. (See Prickett, T. B., and Utterbach, assignors.)
Hubbard, David C., assignor to A. B. Chance Company, Centralia, Mo. Line maintenance tool. 2,280,192; Apr. 21.
Huber, Matthew W., assignor to Tuthill Pump Company, Chicago, Ill. Ice cream freezer. 2,280,434; Apr. 21.
Huenefeld Company, The. (See Dulaney, Paul L., assignor.)
Huenefeld Company, The. (See Wiegand, Martin W., assignor.)
Huffman, Samuel A., Avalon, assignor to Miller Printing Machinery Co., Pittsburgh, Pa. Press bed drive. 2,280,091; Apr. 21.
Hughes, Everett C. (See Burk, R. E., and Hughes.)
Hughes Tool Company. (See Pettey, James M., assignor.)
Hughey, Howard G., Bloomfield, and W. G. Sylvester, Jersey City, N. J., assignors to Air Reduction Company, Incorporated, New York, N. Y. Flame machining. 2,280,151; Apr. 21.
Humphreys, Marion W., Mansfield, Ohio. Fan. 2,280,090; Apr. 21.
Hunt, Seymour, Jackson Heights, N. Y., assignor to Radio Corporation of America. Frequency modulated wave detector. 2,280,525; Apr. 21.
Hurxthal, Alpheus O., Wyncote, assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Air circulating system for driers. 2,280,704; Apr. 21.
Hurxthal, Alpheus O., Wyncote, assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Tobacco casing machine. 2,280,705; Apr. 21.
Hutaff, George H., Jr. (See Maihack, Herman J., assignor.)
Hutchison, Frank E., Lake Bluff, Ill. Vibrating unit. 2,280,397; Apr. 21.
Hydraulic Brake Company. (See Loweke, Erwin F., assignor.)
Hydraulic Brake Company. (See McCollum, Andrew O., assignor.)
Hydraulic Development Corp. Inc., The. (See Ernst, Walter, assignor.)
Hydraulic Development Corporation, The. (See Toulmin, Harry A., Jr., assignor.)
Ilberg, Waldemar, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Antenna. 2,280,235; Apr. 21.
Imbert, Roger, et al. (See Anxionnaz, R., and Imbert, assignors.)
Imbert, Roger. (See Anxionnaz, R., and Imbert.)
Imperial Chemical Industries Limited. (See Haddock, Norman H., assignor.)
Imperial Tobacco Company of Canada. (See Campbell, W. B., Maass, and Massey, assignors.)
Industrial Patents Corporation. (See Wright, David M., assignor.)
Ingersoll-Rand Company. (See Smickle, Raymond H., assignor.)
Inhoffen, Hans H., Berlin-Wilmersdorf, W. Logemann, Berlin-Charlottenburg, and H. Dannenbaum, Falkenhain-Finkenkrug near Berlin, Germany, assignors to Schering Corporation, Bloomfield, N. J. Compounds of the cyclopentanopoly-hydrophenanthrene series and producing the same. 2,280,236; Apr. 21.
International Cigar Machinery Company. (See Brockhuysen, William C., assignor.)
International Harvester Company. (See Lundberg, G. E., and Crawford, assignors..)
International Harvester Company. (See Mott, Carl W., assignor.)
International Harvester Company. (See Mott, C. W., and Smith, assignors.)
International Shoe Company. (See Brewin, Frank, assignor.)
International-Stacey Corporation. (See Athy, Clifford R., assignor.)
International Tag & Salesbook Company. (See Keeley, John R., assignor.)
International Telephone Development Co. (See Kandoian, Armig G., assignor.)
Interstate Bakeries Corporation. (See Weitmer, T. C., and Regan, assignors.)
Irvington Varnish & Insulator Co. (See Homan, Edward C., assignor.)
Ishman, William T., assignor of one-half to J. P. Gallagher, Oelwein, Iowa. Mold for producing concrete blocks. 2,280,635; Apr. 21.
Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Latch. 2,280,648; Apr. 21.
Jacobs Manufacturing Company, The. (See Stoner, Arthur M., assignor.)
Jaeger, Gebhard, and C. L. Bohmer, assignors to The Jaeger Machine Company, Columbus, Ohio. Door structure for mixers. 2,280,513; Apr. 21.
Jaeger Machine Company, The. (See Jaeger, G., and Bohmer, assignors.)
James, Joe D., et al. (See Bowers, Oliver O., assignor.)
Jaseph, Lawrence F., assignor to Rotary Lift Company, Memphis, Tenn. Power transmitting system. 2,280,291; Apr. 21.
Jenkins, Edward M., Scarsdale, N. Y., and E. W. Rembert, Plainfield, N. J., assignors to Johns-Manville Corporation, New York, N. Y. Method and apparatus for making stonelike units. 2,280,488; Apr. 21.
Johansen, Johan E. (See Voight, P. A., and Johansen.)
Johns-Manville Corporation. (See Jenkins, E. M., and Rembert, assignors.)
Johns-Manville Corporation. (See Voigt, P. A., and Johansen, assignors.)
Johnson, Clarence H., Lansboro, assignor of one-half to E. J. Ahearn, Susquehanna, Pa. Clothesline holder. 2,280,526; Apr. 21.
Johnson, Elmer E. (See Penfold, C. S., Johnson, and Brailsford.)
Johnston, Robert C., Tyler, Tex. Polish rod hanger and rotator. 2,280,408; Apr. 21.
Jones, Minor C. K., Elizabeth, N. J., assignor to Standard Oil Development Company. Refining process. 2,280,237; Apr. 21.
Jones, Thomas R., Wood-Ridge, N. J., assignor to The American Metal Company, Limited, New York, N. Y. Purifying metals. 2,280,706; Apr. 21.
Jorgensen, Jacob C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,280,152; Apr. 21.
Junkers Flugzeug-und-Motorenwerke Aktiengesellschaft. (See Mader, Otto, assignor.)
Junkers Flugzeug-und-Motorenwerke Aktiengesellschaft. (See Muller, Max A., assignor.)
Kallus, Frederick, Hoboken, N. J. Frosted lamp. 2,280,489; Apr. 21.
Kalva Venders, Inc. (See Tone, Frederick F., assignor.)
Kandoian, Armig G., assignor to International Telephone Development Co., Inc., New York, N. Y. Single line guiding beacon. 2,280,514; Apr. 21.
Kanhofer, Elmer R., assignor to Universal Oil Products Company, Chicago, Ill. Manufacture of catalysts. 2,280,649; Apr. 21.
Kanowitz, Samuel B., assignor to Combustion Engineering Company, Inc., New York, N. Y. Combined mill and separator. 2,280,238; Apr. 21.
Kapitza, Peter, Moscow, Union of Soviet Socialist Republics. Expansion turbine for low temperature plants. 2,280,585; Apr. 21.
Karl, Heinrich, Jersey City, N. J. Sanitary preserving can or container and the making of it. 2,280,239; Apr. 21.
Kassel, Louis S., assignor to Universal Oil Products Company, Chicago, Ill. Manufacture of catalysts. 2,280,650; Apr. 21.
Kathe, Bertram C., Detroit, Mich. Method and apparatus for impinging powdered material. 2,280,240; Apr. 21.
Kauffeld, Theodore J., New York, N. Y. Inking roller. 2,280,125; Apr. 21.
Keasbey & Mattison Company. (See Muehleck, Ernest, assignor.)
Keeler, Earl A., Norristown, assignor to The Brown Instrument Company, Philadelphia, Pa. Humidity measuring apparatus. 2,280,241; Apr. 21.
Keeley, John R., assignor to International Tag & Salesbook Company, Chicago, Ill. Manifold assembly. 2,280,409; Apr. 21.
Kelch Heater Company. (See Caldwell, Stuart H., assignor.)
Kell, Ray D., Haddonfield, N. J., assignor to Radio Corporation of America. Apparatus for and method of frequency modulating. 2,280,707; Apr. 21.
Keltie, Ralph J., Wellesley Hills, Mass. Wrist strap. 2,280,490; Apr. 21.
Keltner, Hugh R., Johnson County, Kans. Nursing bag. 2,280,410; Apr. 21.
Kemmerer, Ralph R., assignor to The Union Switch & Signal Company, Swissvale, Pa. Absolute permissive block system of railway signaling. 2,280,491; Apr. 21.
Kenngott, Robert L., New York, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Apparatus for testing transmission systems. 2,280,492; Apr. 21.
Kiefi, Wade B., Uniontown, Ohio. Foldable leg table. 2,280,586; Apr. 21.
Kiel, Julius H., et al. (See Owen, Ira J., assignor.)
Kiel, Robert B., et al. (See Owen, Ira J., assignor.)
Kiene, William J., Chicago, Ill. Pressure indicator. 2,280,411; Apr. 21.
Kimball, Charles N., Jackson Heights, N. Y., assignor to Radio Corporation of America. Oscillator drift compensation devices. 2,280,527; Apr. 21.

King, Archie P., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electronic switching apparatus. 2,280,528; Apr. 21.

Kinkead, Fullerton S., New York, and J. A. Krecek, New Rochelle, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Teletypewriter switching system. 2,280,292; Apr. 21.

Kinkead, Robert S., St. Paul, Minn. Mower. 2,280,124; Apr. 21.

Kinney, Andrew S., Redwood Falls, Minn. Door control for electric pull sockets. 2,280,493; Apr. 21.

Kinsey, Lewis R., Bethalto, and O. Bowman, Alton, Ill. Airplane stall indicator. 2,280,494; Apr. 21.

Kirch, Charles E., Buffalo, C. G. MacLelland and F. M. Becker, assignors to Kirch-Trumbull Corporation, Alden, N. Y. Machine for and method of forming folded toilet seat covers. 2,280,092; Apr. 21.

Kirch-Trumbull Corporation. (See Kirch, C. E., MacLelland, and Becker, assignors.)

Klarer, Josef. (See Mietzsch, F., and Klarer.)

Klein, Victor G., St. Louis, and J. Kludt, Ladue, assignors to Lincoln Engineering Company, St. Louis, Mo. Pump. 2,280,708; Apr. 21.

Kleinschmidt, Robert V., Stoneham, assignor to A. D. Little, Incorporated, Cambridge, Mass. Distillation method and apparatus. 2,280,093; Apr. 21.

Klocke, William, Woodhaven, assignor to E. W. Bliss Company, Brooklyn, N. Y. Press. 2,280,587; Apr. 21.

Kludt, Jonathan. (See Klein, V. G., and Kludt.)

Knott, Frank W., and B. Garilus, Detroit, Mich. Fluid motor. 2,280,588; Apr. 21.

Knowles, Edwin F., Phoenix, Ariz. Folding table. 2,280,412; Apr. 21.

Knox, Granville S., Los Angeles, Calif. Pneumatic pump. 2,280,589; Apr. 21.

Knudson, Conrad P., Sioux Falls, S. Dak. Garment hanger. 2,280,435; Apr. 21.

Koch, Frederick, Sparta, assignor to Associated Patentees, Inc., Ampere, N. J. Milling machine. 2,280,436; Apr. 21.

Koppenhoefer, Robert M., Jackson Heights, and T. G. Roehner, Malverne, assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Treatment of leather. 2,280,310; Apr. 21.

Koppinger, Nicholas G., St. Clair Shores, assignor to Briggs Manufacturing Company, Detroit, Mich. Surface ornamenting machine. 2,280,413; Apr. 21.

Koppinger, Nicholas G., St. Clair Shores, assignor to Briggs Manufacturing Company, Detroit, Mich. Surface ornamenting machine and method. 2,280,414; Apr. 21.

Kraft, Herman T., assignor to The General Tire & Rubber Company, Akron, Ohio. Latex rubber casting. 2,280,636; Apr. 21.

Kraft, Herman T., assignor to The General Tire & Rubber Company, Akron, Ohio. Means for balancing wheels. 2,280,637; Apr. 21.

Kroenig, Ignace J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Production of titanium solutions. 2,280,590; Apr. 21.

Krecek, Joseph A. (See Kinkead, F. S., and Krecek.)

Kreer, John G., Jr., Bloomfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Repeater control. 2,280,293; Apr. 21.

Kronmiller, Carl G., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Thermostat. 2,280,651; Apr. 21.

Kropa, Edward L., and T. F. Bradley, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Maleic anhydride-ethylene glycol-methallyl alcohol resin. 2,280,242; Apr. 21.

Kruse, Edward H., Fort Wayne, Ind. Adjustable fish pole cleat. 2,280,759; Apr. 21.

Lafreniere, Lauran, assignor of one-half to E. L. Bouchard, Essex Junction, Vt. Cinder grinder. 2,280,423; Apr. 21.

Lamond, Robert C., assignor to American Engineering Company, Philadelphia, Pa. Winch. 2,280,652; Apr. 21.

Landis Tool Company. (See Elberty, Robert S., Jr., assignor.)

Landon, Herbert O., et al. (See Drabick, Fred F., assignor.)

Lang, Filip L., Waxio, Sweden. Building frame structure. 2,280,591; Apr. 21.

Lang, Harold M., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Switch. 2,280,243; Apr. 21.

Larmuth, William O., Alpraham, near Tarporley, assignor to Rotalac Limited, Lymm, Cheshire, England. Apparatus for the coating of wires, cables, textile threads, and stripe. 2,280,415; Apr. 21.

Le Blond, R. K., Machine Tool Company, The. (See Groene, Willard L., assignor.)

Le Blond, R. K., Machine Tool Company, The. (See Groene, W. F., and Siekmann, assignors.)

Lee, Harry. (See Muller, R., and Lee.)

Leenderise, Jacob J. (See Waterman, H. I., and Leenderise.)

LeMieux, Frederic, Jr., New Orleans, La. Soil testing device. 2,280,592; Apr. 21.

Leonard, Lowell A., Chicago, Ill. Tie rack. 2,280,294; Apr. 21.

Lester, H. P., et al. (See Hodges, Vera C., assignor.)

Le Vesconte, Harold J., Western Springs, assignor to Union Special Machine Company, Chicago, Ill. Quick action presser foot. 2,280,193; Apr. 21.

Levesque, George N., Providence, R. I., assignor to Brown and Sharpe Manufacturing Company. Releasable permanent magnet holding device. 2,280,437; Apr. 21.

Lewellen, Darcy E. and E. F., Columbus, Ind. Wire or strip tensioning apparatus. 2,280,194; Apr. 21.

Lewellen, Emmons F. (See Lewellen, Darcy E. and E. F.)

Lewis Invisible Stitch Machine Company. (See Bowman, Louis G., assignor.)

Libbey Glass Company. (See Black, Harold R., assignor.)

Libbey Glass Company. (See Schutz, Harold R., assignor.)

Lichtblau, Ernest, New York, N. Y. Manufacture of meerschaum pipes. 2,280,700; Apr. 21.

Liebetrau, Helmuth R., Passaic, N. J. Urine pump. 2,280,416; Apr. 21.

Lift Trucks Incorporated. (See Stuebing, William, Jr., assignor.)

Lightning Fastener Company. (See Rutherford, Frank C., assignor.)

Lincoln, Bert H. (See Byrkit, G. D., Steiner, and Lincoln.)

Lincoln Engineering Company. (See Klein, V. G., and Kludt, assignors.)

Linde Air Products Company, The. (See Hasse, F. C., and Bernard, assignors.)

Lion Oil Refining Company. (See Grant, F. R., and Wright, assignors.)

Lipe, W. C., Inc. (See Spase, Charles B., assignor.)

Lipe, W. C., Inc. (See Spase, C. B., and Root, assignors.)

Little, Arthur D., Incorporated. (See Kleinschmidt, Robert V., assignor.)

Littell, J. F., Machine Company. (See Miller, Edgar R., assignor.)

Logemann, Willy. (See Inhoffen, H. H., Logemann, and Dannenbaum.)

Long, Hugh, Los Angeles, Calif. Guarded vent fitting. 2,280,195; Apr. 21.

Lorenz, C., Aktiengesellschaft. (See Nitz, Herbert, assignor.)

Lorenz, C., Aktiengesellschaft. (See Pietzsch, Herbert, assignor.)

Lorenz, C., Aktiengesellschaft. (See Scharfnagel, Rudolf, assignor.)

Loweke, Erwin F., assignor to Hydraulic Brake Company, Detroit, Mich. Fluid pressure producing device. 2,280,153; Apr. 21.

Loweke, Erwin F., assignor to Hydraulic Brake Company, Detroit, Mich. Adjuster for friction elements. 2,280,154; Apr. 21.

Luce, Willis F., San Francisco, Calif. Carton structure. 2,280,155; Apr. 21.

Lundberg, Gustave E., and A. R. Crawford, Riverside, Ill., assignor to International Harvester Company. Air cleaner. 2,280,417; Apr. 21.

Lynch, Charles S., Fanwood, N. J., assignor to Standard Oil Development Company. Isomerization process. 2,280,710; Apr. 21.

Maass, Otto. (See Campbell, W. B., Maass, and Massey.)

Machlett Laboratories Incorporated. (See Machlett, R. R., and Skehan, assignors.)

Machlett, Raymond R., New Canaan, and J. W. Skehan, Stamford, assignors to Machlett Laboratories Incorporated, Springdale, Conn. High tension apparatus. 2,280,711; Apr. 21.

Mack, Charles, Sarnia, Ontario, Canada, assignor to Standard Oil Development Company. Adhesiveness of asphalts. 2,280,653; Apr. 21.

MacLelland, Charles G. (See Kirch, C. E., MacLelland, and Becker.)

Mader, Otto, Dessau-Ziebigk, assignor to Junkers Flugzeug-und-Motorenwerke Aktiengesellschaft, Dessau, Germany. Control of adjustable screw propellers. 2,280,654; Apr. 21.

Madsen, Niels P., Chicago, Ill. Doorstop. 2,280,655; Apr. 21.

Madsen, Sern, assignor to Curtis Companies Incorporated, Clinton, Iowa. Table top construction. 2,280,094; Apr. 21.

Maffei, Dominick A., Bayside, Long Island, N. Y. Harmonic slide rule. 2,280,593; Apr. 21.

Maihack, Herman J., Jersey City, N. J., assignor of fifty per cent to G. H. Hutaff, Jr., Wilmington, N. C. Protector for beer can openers. 2,280,336; Apr. 21.

Malagrino, Francesco, assignor to Morini & Rossi, di Morini, Amadori & C., Milan, Italy. Adjustable wrench for nuts. 2,280,594; Apr. 21.

Mallory, Marion, Detroit, Mich. Internal combustion engine. 2,280,712; Apr. 21.

Malone, Homer E., assignor to Perfex Corporation, Milwaukee, Wis. Control device. 2,280,595; Apr. 21.

Manteros, Paul, Nashua, N. H. Bit. 2,280,295; Apr. 21.

Mantle, Burr W., Pittsford, N. Y., assignor to The American Brake Shoe and Foundry Company. Lubricating system for compressors or the like. 2,280,296; Apr. 21.

Marcus, Samuel, Jersey City, assignor to Margon Corporation, Bayonne, N. J. Doll eye. 2,280,244; Apr. 21.

Marcus, Samuel, Jersey City, assignor to Margon Corporation, Bayonne, N. J. Manufacture of doll eye assembly. 2,280,245; Apr. 21.

Margon Corporation. (See Marcus, Samuel, assignor.)

Marsh, Francis E., et al. (See Neal, Ernest C., assignor.)

Martellotti, Mario E., assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Backlash eliminator for machine tools. 2,280,760; Apr. 21.

Marti, Othmar K. (See Bohn, D. I., and Marti.)

Martin, Charles E. (See Alexander, F. A. D., and Martin.)

Martin, Erle, West Hartford, J. E. Anderson, Portland, and M. C. Beebe, South Glastonbury, assignors to United States Aircraft Corporation, East Hartford, Conn. Feathering propeller. 2,280,713; Apr. 21.

Martin, Erle, West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Feathering propeller control. 2,280,714; Apr. 21.

Martinet, Eugene F., assignor to The P. A. Geier Company, Cleveland, Ohio. Suction cleaner air flow construction. 2,280,495; Apr. 21.

Massey, Ernest E. (See Campbell, W. B., Maass, and Massey.)

Masterson, Charles T., East Cleveland, and W. M. Patter, Lyndhurst, Ohio., assignors to General Electric Company. Lighting fixture. 2,280,534; Apr. 21.

Mastriforte, Otil F., assignor to Niles-Bement-Pond Company, West Hartford, Conn. Work clamping device for machine tools. 2,280,156; Apr. 21.

Matthews, Emil C., Elizabeth, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Circuit controlling device. 2,280,438; Apr. 21.

McCandliss, Bernard B., Chicago, Ill., assignor to Graver Tank & Mfg. Co., Inc., Catasauqua, Pa. Breather roof. 2,280,657; Apr. 21.

McCollum, Andrew O., assignor to Hydraulic Brake Company, Detroit, Mich. Brake. 2,280,196; Apr. 21.

McCollum, Andrew O. (See Scott, R. W., and McCollum.)

McConnell, Ralph S., Norfolk, Va. Hogshead. 2,280,761; Apr. 21.

McCoy, Verl E., La Grange, assignor to National Aluminate Corporation, Chicago, Ill. Feeding device. 2,280,656; Apr. 21.

McCullough, Neel M., assignor to Pierce Governor Company, Anderson, Ind. Fuel control mechanical breaker system and indicator. 2,280,246; Apr. 21.

McKee, George K., Cincinnati, Ohio, assignor to The Avey Drilling Machine Company, Covington, Ky. Machine tool. 2,280,596; Apr. 21.

McKee, James H., Pittsburgh, Pa., assignor, by mesne assignments, to Curtiss-Wright Corporation, New York, N. Y. Making hollow metal aircraft propeller blades. 2,280,337; Apr. 21.

McKee, Ralph H., New York, N. Y., and H. L. Blengsli, Old Greenwich, Conn. Wax like product and making the same from tall oil or rosin and fatty acids. 2,280,247; Apr. 21.

McLaughlin, Robert J., Brooklyn, N. Y. Aeronautical wheel. 2,280,715; Apr. 21.

McLean, Leland D., Marion, Ohio. Earth moving vehicle. 2,280,439; Apr. 21.

McWane, Henry E., Lynchburg, Va. Mold gate. 2,280,597; Apr. 21.

Mead, Lynn D., assignor to Divco-Twin Truck Company. Detroit, Mich. Stand drive vehicle. 2,280,157; Apr. 21.

Meiswinkel, Samuel, Gaggenau, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Regulating pump. 2,280,248; Apr. 21.

Meiswinkel, Samuel, Gaggenau, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Liquid pressure regulator for injection pumps. 2,280,496; Apr. 21.

Melchionna, Frank A., Cincinnati, Ohio. Shoe shank. 2,280,440; Apr. 21.

Meridith, George H., Cleveland, Ohio, assignor to General Electric Company. Flash lamp. 2,280,598; Apr. 21.

Merrell, Wm. S., Company, The. (See Shelton, Robert S., assignor.)

Merrill, David R., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Modified lubricating oil. 2,280,338; Apr. 21.

Metcalf, Irving R., Washington, D. C., assignor to Research Corporation, New York, N. Y. Method of and apparatus for guiding aircraft. 2,280,126; Apr. 21.

Metzner, Albert W., assignor to The Standard Register Company, Dayton, Ohio. Imprinting apparatus. 2,280,095; Apr. 21.

Meyer, Paul E., Kenmore, assignor to Certain-teed Products Corporation, New York N. Y. Forming laminated product. 2,280,249; Apr. 21.

Meyers, Cyril L., Portland, Oreg., assignor to Forest Products Treating Division, of Nebraska Bridge Supply & Lumber Company. Wood stave conduit. 2,280,339; Apr. 21.

Mietzsch, Fritz, and J. Klarer, Wuppertal-Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Cyclic sulphonic acid amide compounds. 2,280,497; Apr. 21.

Milan, Joseph M., Highland Park, Mich. Vehicle brake. 2,280,599; Apr. 21.

Miller, Edgar R., assignor to F. J. Littell Machine Company, Chicago, Ill. Vacuum pickup. 2,280,658; Apr. 21.

Miller-Jonas Holding Co. (See Miller, Louis P., assignor.)

Miller, Louis P., assignor to Miller-Jonas Holding Co., Inc., Walden, N. Y. Lap forming blowing machine. 2,280,250; Apr. 21.

Miller, Luther H., San Antonio, and T. O. Booth, Fort Worth, Tex. Vermicidal composition. 2,280,340; Apr. 21.

Miller Printing Machinery Co. (See Huffman, Samuel A., assignor.)

Miner, W. H., Inc. (See Haseltine, Stacy B., assignor.)

Minneapolis-Honeywell Regulator Company. (See Craig, Robert S., assignor.)

Minneapolis-Honeywell Regulator Company. (See Kronmiller, Carl G., assignor.)

Minneapolis-Honeywell Regulator Company. (See Nickells, Stanley W., assignor.)

Mirski, Michael S., New York, N. Y. Combination bootjack device. 2,280,251; Apr. 21.

Missouri Rolling Mill Corporation. (See Ackerman, George H., assignor.)

Mitchell, Doren, Bound Brook, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Two-way signal transmission system. 2,280,158; Apr. 21.

Mitchell, Fred C. (See Singleton, Francis D., assignor.)

Mojonnier Bros. Co. (See Mojonnier, Timothy, J. J., and O. W., assignors.)

Mojonnier, Julius J. (See Mojonnier, Timothy, J. J., and O. W., assignors.)

Mojonnier, Oliver W. (See Mojonnier, Timothy, J. J., and O. W., assignors.)

Mojonnier, Timothy and J. J., Oak Park, and O. W. Mojonnier, River Forest, Ill., assignors to Mojonnier Bros. Co. Vat. 2,280,529; Apr. 21.

Moore, David P., Avon Park, Fla. Apparatus and method of making a knitted fabric. 2,280,535; Apr. 21.

Moore, David P., Avon Park, Fla. Knitted fabric. 2,280,536; Apr. 21.

Morini & Rossi, di Morini, Amadori & C. (See Malagrino, Francesco, assignor.)

Morris, Fred H., High Point, N. C. Sanding machine. 2,280,498; Apr. 21.

Morris, Richard L. (See Gorman, L. J., and Morris.)

Morrison, George L., Evanston, Ill. Phototypographic type body. 2,280,096; Apr. 21.

Morton, Wade D., Gloucester City, and W. E. Haupt, Westville, assignors to Automatic Drive & Transmission Company, Gloucester, N. J. Power transmitting mechanism for rail cars, motor vehicles, and the like. 2,280,127; Apr. 21.

Moss, William H., London, England, assignor to Celanese Corporation of America. Window and the like. 2,280,097; Apr. 21.

Moss, William H., London, England, assignor to Celanese Corporation of America. Synthetic material. 2,280,098; Apr. 21.

Motor Wheel Corporation. (See Horn, Harry J., assignor.)

Mott, Carl W., La Grange, Ill., assignor to International Harvester Company. Fluid expansible device. 2,280,341; Apr. 21.

Mott, Carl W., La Grange, and H. P. Smith, Canton, Ill., assignors to International Harvester Company. Adjusting mechanism. 2,280,342; Apr. 21.

Mountjoy, Garrard, Manhasset, N. Y., assignor to Radio Corporation of America. Frequency modulated wave detector. 2,280,530; Apr. 21.

Moxley, William M., Kansas City, Mo. Battery retaining and tensioning means for hand lanterns. 2,280,343; Apr. 21.

Muehleck, Ernest, Rydal, assignor to Keasbey & Mattison Company, Ambler, Pa. Producing reenforced conduits. 2,280,252; Apr. 21.

Mueller, Arthur C. (See Agerell, W. C., and Mueller.)

Mueller Brass Co. (See Parker, W. M., and Gray, Robert A. and J. E., assignors.)

Mull, Arthur B., Chicago, Ill., assignor of one-half to Spotswood Specialty Company, Inc., Lexington, Ky. Dart. 2,280,441; Apr. 21.

Muller, J. C., N. Y. (See Zimniak, Edmund, assignor.)

Muller, Max A., Biederitz, Germany, assignor to Junkers Flugzeug-und-Motorenwerke Aktiengesellschaft. Antifriction bearing. 2,280,659; Apr. 21.

Müller, Richard, and H. Lee, assignors to Chemische Fabrik von Heyden A. G., Radebeul, near Dresden, Germany. Mass capable of swelling and thickening agents. 2,280,600; Apr. 21.

Müller, Werner, Cologne, and C. Berres, Leverkusen-Wiesdorf, Germany, assignors to General Aniline & Film Corporation. Dyestuffs of the methine series. 2,280,253; Apr. 21.

Mullinix, Gird E., Southgate, assignor to Byron Jackson Co., Huntington Park, Calif. Pipe anchor. 2,280,076; Apr. 21.

Muros, Joseph, Cambridge, assignor to Gillette Safety Razor Company, Boston, Mass. Protected blade. 2,280,442; Apr. 21.

Murphy, Emanuel, Logansport, Ind. Metal feed troughs. 2,280,537; Apr. 21.

Murray, John F., Longmeadow, and U. S. Fisher, Holyoke, Mass. Dispensing device. 2,280,443; Apr. 21.

Myers, Harry R., Zanesville, Ohio. Shoe repairing machine. 2,280,418; Apr. 21.

Myles Salt Company. (See Black, Arthur F., assignor.)

Naamlooze Vennootschap Industrieele Maatschappy Voorheen Noury & Van Der Lande. (See Priester, Remmet, assignor.)
Nashua Gummed and Coated Paper Company. (See Polley, Robert W., assignor.)
National Aluminate Corporation. (See McCoy, Verl E., assignor.)
National Automotive Fibres, Inc. (See Webster, Winfield L., and Rann, assignors.)
National Can Corporation. (See Hopkins, Arthur G., assignor.)
National Oil Products Company. (See Dombrow, Bernard A., assignor.)
National Processes Limited. (See Carter, William J., assignor.)
Nave, Alfred E., Newburgh, Ind., assignor to Servel, Inc., New York, N. Y. Refrigerator. 2,280,254; Apr. 21.
Neal, Ernest C., Chicago, Ill., assignor of one-fourth to J. D. Roberts, Portland, and one-fourth to F. E. Marsh, McMinnville, Oreg. Cutter. 2,280,159; Apr. 21.
Nebel, Bruno M., Chemnitz, Germany. Latch needle for circular knitting machines. 2,280,344; Apr. 21.
Nelson, Victor A. (See Fryckstrom, C. W., and Nelson.)
Neumueller, Julius F., Webster, Mass., and J. Y. Taylor, Brownwood, Tex., assignors to American Optical Company, Southbridge, Mass. Testing eyes. 2,280,297; Apr. 21.
Neunherz, Herbert W., Gardner, Mass. Elevating device for cots and the like. 2,280,444; Apr. 21.
Nevitt, Albert R., New Brunswick, N. J., assignor to Bradford Penn Refining Corporation, Clarendon, Pa. Treating hydrocarbon oils. 2,280,445; Apr. 21.
Newcomb, Phillip P., Manchester, assignor to United Aircraft Corporation, East Hartford, Conn. Reinforced cylinder. 2,280,660; Apr. 21.
New York Air Brake Company, The. (See Baldwin, Wayne A., assignor.)
New York Air Brake Company, The. (See Sudduth, Henry N., assignor.)
Nickells, Stanley W., Chicago, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Pneumatic control. 2,280,345; Apr. 21.
Niles-Bement-Pond Company. (See Mastriforte, Otil F., assignor.)
Nissen, Hans F. (See Eggert, J., and Nissen.)
Nitz, Herbert, Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Trunk position circuit for carrier frequency communication systems. 2,280,538; Apr. 21.
Noecker, Louis J., St. Clair, Mo. Machine for turning and binding the edges of leather. 2,280,346; Apr. 21.
Nordmark, Henry P., assignor to American Seating Company, Grand Rapids, Mich. Seat hinge. 2,280,298; Apr. 21.
Norgaard, Donald E., Schenectady, N. Y., assignor to General Electric Company. Oscillograph apparatus. 2,280,531; Apr. 21.
Norgaard, Donald E., Schenectady, N. Y., assignor to General Electric Company. Wide band amplifier. 2,280,532; Apr. 21.
Norman, Ernest B., and G. A. Pettit, New Orleans, La., and L. F. Serrick, Defiance, Ohio; said Pettit and said Serrick assignors to said Norman. Filler neck for locomotive lubrication systems. 2,280,533; Apr. 21.
North American Aviation, Inc. (See Halloway, D. E., and Smithson, assignors.)
Norton Company. (See Ridgway, R. R., and Ballard, assignors.)
Nyman, Alexander, Dayton, Ohio. Vibrator sanding and polishing machine. 2,280,446; Apr. 21.
Ohio Crankshaft Company. (See Denneen, F. S., and Dunn, assignors.)
O'Leary, Joseph T., Elisabeth, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Filtering circuits. 2,280,661; Apr. 21.
Oliver Farm Equipment Company. (See Altgelt, Rudolph J., assignor.)
Olley, Maurice, Detroit, Mich., and G. F. Gibson, Luton, England, assignors to General Motors Corporation, Detroit, Mich. Axle mounting. 2,280,347; Apr. 21.
Onsrud Machine Works, Inc. (See Onsrud, Rudolph F., assignor.)
Onsrud, Rudolph F., assignor to Onsrud Machine Works, Inc., Chicago, Ill. Chuck. 2,280,299; Apr. 21.
Osgood Company, The. (See White, Fred L., assignor.)
Osswald, Ernesto E., Buenos Aires, Argentina. Intermittent switch. 2,280,539; Apr. 21.
Oster, John, assignor to John Oster Manufacturing Company, Racine, Wis. Hair clipper. 2,280,348; Apr. 21.
Oster, John, Manufacturing Company. (See Oster, John, assignor.)
Otarion, Inc. (See Schauer, Walter R., assignor.)
Otter, Judson R., Piedmont, W. Va. Container. 2,280,601; Apr. 21.
Owen, Ira J., Winnetka, assignor of one-third to J. H. Kiel and one-third to R. B. Kiel, Wilmette, Ill. Machine for cleaning and treating floors. 2,280,077; Apr. 21.
Owens-Corning Fiberglas Corporation. (See Slayter, G., Atkinson, Fletcher, and Smith, assignors.)
Owens-Illinois Glass Company. (See Soubier, Leonard D., assignor.)
Owens-Illinois Glass Company. (See Tracy, Parker C., assignor.)
Ounsworth, Richard H., Minneapolis, Minn. Fish lure. 2,280,197; Apr. 21.
Pacanins, Tomas, et al. (See Yanes, Francisco G., assignor.)
Pacent, Louis G. (See Barrett, Daniel J., Jr., assignor.)
Page, John S., Long Beach, Calif. Casing cutter. 2,280,769; Apr. 21.
Paine, Howard S. (See Ventre, E. K., and Paine.)
Palm, David C., Geneseo, Ill. Pipe support. 2,280,349; Apr. 21.
Pardee, Lloyd W., Lakewood, Ohio, assignor to The Scott & Fetzer Company, Cleveland, Ohio. Suction cleaner. 2,280,350; Apr. 21.
Parke, Davis & Company. (See Scott, A. B., and Sultzaberger, assignors.)
Parker, William M., and R. A. and J. E. Gray, assignors to Mueller Brass Co., Port Huron, Mich. Apparatus for making headers. 2,280,255; Apr. 21.
Patterson, Donald G., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Polymerization of maleic acid-linseed oil fatty acids-ethylene glycol-allyl alcohol resin. 2,280,256; Apr. 21.
Paulsen, Henry C., Elizabeth, and J. O. Collins, Westfield, N. J., assignors to Standard Oil Development Company. Fuel for internal combustion engines. 2,280,716; Apr. 21.
Pawsat, Ewald F., Maysville, Ky. Steering post for cycles and the like. 2,280,662; Apr. 21.
Pearce, George W., Jr., Pittsburgh, Pa. Jet compressor for power plants. 2,280,447; Apr. 21.
Pearson, Gerald L., Towaco, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Resistor device and making the same. 2,280,257; Apr. 21.
Penfold, Charles S., E. E. Johnson, and G. H. Brailsford, assignors to H. A. Douglas Mfg. Co., Bronson, Mich. Swaging apparatus. 2,280,351; Apr. 21.
Penfold, Charles S., E. E. Johnson, and G. H. Brailsford, assignors to H. A. Douglas Mfg. Co., Bronson, Mich. Method of swaging. 2,280,352; Apr. 21.
Perfex Corporation. (See Malone, Homer E., assignor.)
Perkins, Holloway W., Beaumont, Tex., assignor to Sun Oil Company, Philadelphia, Pa. Valve. 2,280,499; Apr. 21.
Persson, Eric S., Malmo, Sweden. Window. 2,280,540; Apr. 21.
Persson, Eric S., Malmo, Sweden. Screen. 2,280,541; Apr. 21.
Peterson, Albert C., assignor to Union Special Machine Company, Chicago, Ill. Lubricating system. 2,280,198; Apr. 21.
Peterson, Charles W. (See Hemming, H., and Peterson.)
Pettey, James M., Los Angeles, Calif., assignor to Hughes Tool Company, Houston, Tex. Clamp for tubing flaring devices. 2,280,078; Apr. 21.
Pettit, George A. (See Norman, E. B., Pettit, and Serrick.)
Pfeiffer, John G., Dumont, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Treating and testing apparatus. 2,280,448; Apr. 21.
Philco Radio and Television Corporation. (See Spielman, Sterling C., assignor.)
Phipps, Jesse B., assignor of one-fourth to Beecher Coleman, Jefferson City, Mo. Polishing and finishing tool. 2,280,762; Apr. 21.
Picardy Mills, Inc. (See Blanc, Marinette, assignor.)
Pier, Mathias, Heidelberg, Germany, assignor, by mesne assignments, to W. E. Currie, New York, N. Y. Manufacture of liquid hydrocarbons. 2,280,258; Apr. 21.
Pieragostini, Tazio D. (See Rossini, C., and Pieragostini.)
Pierce Governor Company. (See McCullough, Neel M., assignor.)
Pietzsch, Herbert, Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Electron multiplier. 2,280,449; Apr. 21.
Pines Winterfront Company. (See Agerell, W. C., and Mueller, assignors.)
Plambeck, Peter D., assignor to Armour and Company, Chicago, Ill. Drying fiber string material. 2,280,602; Apr. 21.
Plambeck, Peter D., assignor to Armour and Company, Chicago, Ill. Preparing suture materials. 2,280,603; Apr. 21.
Pletcher, Merrill C., Elkhart, and M. A. Hochstetler, Nappanee, Ind. Internal combustion engine. 2,280,079; Apr. 21.
Pokorny, Oldrich S., Sarnia, Ontario, Canada, assignor to Standard Oil Development Company. Solvent dewaxing process. 2,280,260. Apr. 21.
Polley, Robert W., assignor to Nashua Gummed and Coated Paper Company, Nashua, N. H. Production of articles with viscous coatings. 2,280,259; Apr. 21.
Potter, Rowland S., Brightford Heights, and R. S. Hagaman, Irondequoit, assignors to Defender Photo Supply Co., Inc., Rochester, N. Y. Light sensitive photographic coating and manufacturing the same. 2,280,300; Apr. 21.
Potter, Wentworth M. (See Masterson, C. T., and Potter.)
Potts, C. & G., & Co. (See Antibus, F. M., Jr., and Caylor, assignors.)
Pounds, Vester O., Enid, Okla. Reciprocal motion device. 2,280,261; Apr. 21.

Power Research Corporation. (See Bowers, Thomas A., assignor.)
Predan, Nicholas A., Chicago, Ill. Concrete insert. 2,280,080; Apr. 21.
Price, Nathan C., Hollywood, Calif., assignor, by mesne assignments, to Boeing Aircraft Company, Seattle, Wash. Flow control valve. 2,280,128; Apr. 21.
Prickett, Thomas B., Woodbury, N. J., and E. S. Utterback, Oakmont, Pa., assignors, by direct and mesne assignments, to Houdry Process Corporation, Wilmington, Del. Catalytic converter. 2,280,081; Apr. 21.
Priester, Remmet, assignor to Naamlooze Vennootschap Industrieele Maatschappij Voorheen Noury & Van Der Lande, Deventer, Netherlands. Manufacture of drying oils. 2,280,082; Apr. 21.
Proctor & Schwartz, Incorporated. (See Hurxthal, Alpheus O., assignor.)
Progressive Welder Company. (See Purat, Hugo, assignor.)
Projectile & Engineering Company. (See Bridges, W., and Chambers, assignors.)
Purat, Hugo, assignor to Progressive Welder Company, Detroit, Mich. Pressure switch. 2,280,262; Apr. 21.
Purcell, William G. (See Vaugh, De Will G., assignor.)
Quick, Cecil G., London, and W. A. Whitehead, Fullwood, Preston, England, assignors to R. Hoe & Co., Inc., New York, N. Y. Rotary conveying mechanism for conveying the products of printing machines. 2,280,663; Apr. 21.
Quinn, Edward, Saugus, and E. G. Hathaway, Salem, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Heel-end lasting machine. 2,280,199; Apr. 21.
R-B-M Manufacturing Company. (See Clayton, Harold H., assignor.)
Radio Corporation of America. (See Alburger, James R., assignor.)
Radio Corporation of America. (See Belar, Herbert, assignor.)
Radio Corporation of America. (See Carson, Benjamin R., assignor.)
Radio Corporation of America. (See Colchester, C. D., and Starr, assignors.)
Radio Corporation of America. (See Crosby, Murray G., assignor.)
Radio Corporation of America. (See Evans, John, assignor.)
Radio Corporation of America. (See Foster, Dudley E., assignor.)
Radio Corporation of America. (See Glover, Alan M., assignor.)
Radio Corporation of America. (See Hasbrouck, Harold J., Jr., assignor.)
Radio Corporation of America. (See Hunt, Seymour, assignor.)
Radio Corporation of America. (See Kell, Ray D., assignor.)
Radio Corporation of America. (See Kimball, Charles N., assignor.)
Radio Corporation of America. (See Mountjoy, Garrard, assignor.)
Radio Corporation of America. (See Roberts, Walter van B., assignor.)
Radio Corporation of America. (See Schock, Robert E., assignor.
Radio Corporation of America. (See Shepard, Francis H., Jr., assignor.)
Radio Corporation of America. (See Streib, Albrecht, assignor.)
Radio Corporation of America. (See Tolson, William A., assignor.)
Radio Corporation of America. (See Weagant, Roy A., assignor.)
Radio Corporation of America. (See Weinberger, Julius, assignor.)
Raecolith Flooring Co. (See Williams, Alfred L., assignor.)
Randall Graphite Products Corporation. (See Whiteley, Robert H., assignor.)
Rann, Elburn J. (See Webster, W. L., and Rann.)
Rawlings Manufacturing Company. (See Scudder, Mason, assignor.)
Ray, Philip A., assignor to Hercules Powder Company, Wilmington, Del. Sulphur composition. 2,280,301; Apr. 21.
Ray, William A., Glendale, Calif. Temperature control system. 2,280,353; Apr. 21.
Rechten, George D., Los Angeles, Calif. Container closure and dispenser for semiliquid products. 2,280,263; Apr. 21.
Redler Conveyor Company. (See Sinden, Alfred D., assignor.)
Reed, E. P., & Co. (See Gerber, John G., assignor.)
Reeves, Dache M., Langley Field, Va. Folding pocket stereoscope. 2,280,083; Apr. 21.
Reeves, Edward D., Cranford, N. J., assignor to Standard Oil Development Company. Solvent treating process. 2,280,264; Apr. 21.
Refining, Inc. (See Thurman, Benjamin H., assignor.)
Regan, Charles J. (See Weltmer, T. C., and Regan.)
Regensburger, Albert, Nurenberg, Germany. Laxative. 2,280,265; Apr. 21.
Reid, Frederick M., assignor to Freuhauf Trailer Company, Detroit, Mich. Vehicle undercarriage. 2,280,302; Apr. 21.
Reinders-Folmer, Herman C., assignor to Smith-Rowland Company, Inc., Norfolk, Va. Manufacturing fertilizer. 2,280,129; Apr. 21.
Reinders-Folmer, Herman C., assignor to Smith-Rowland Company, Inc., Norfolk, Va. Manufacturing fertilizer. 2,280,130; Apr. 21.
Rembert, Ernest W. (See Jenkins, E. M., and Rembert.)
Republic Steel Corporation. (See Shockey, Edward, assignor.)
Research Corporation. (See Metcalf, Irving R., assignor.)
Research Corporation. (See White, Harry J., assignor.)
Research Foundation, Inc. (See Riddle, Griffith H., assignor.)
Resinous Products & Chemical Company, The. (See Bruson, Herman A., assignor.)
Reuter, Raymond, Medford Lakes, N. J., assignor to The Atlantic Refining Company, Philadelphia, Pa. Lubricant. 2,280,450; Apr. 21.
Reyburn, John R., Fairfield, Conn. Method and apparatus for treating wire rope. 2,280,500; Apr. 21.
Reyburn, John R., Fairfield, Conn., assignor to American Chain & Cable Company, Inc., New York, N. Y. Reinforced link for antiskid chains. 2,280,717; Apr. 21.
Reynolds, Frederick W., Ridgewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron multiplier system. 2,280,303; Apr. 21.
Reyrolle, A., & Company Limited. (See Bayles, John W., assignor.)
Rezos, Louis H., Arlington, Va. Binoculars. 2,280,354; Apr. 21.
Rich, Henry S. (See Welen, Paul, assignor.)
Richard, Charles D., West New Brighton, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone call transmitter. 2,280,604; Apr. 21.
Riddle, Griffith H., Brookline, Mass., assignor to Research Foundation, Inc., Wilmington, Del. Fertilizer and making the same. 2,280,451; Apr. 21.
Ridgway, Raymond R., Niagara Falls, N. Y., and A. H. Ballard, Niagara Falls, Ontario, Canada, assignors to Norton Company, Worcester, Mass. Electrical insulating material and producing the same. 2,280,515; Apr. 21.
Ridgway, Raymond R., Niagara Falls, N. Y., and A. H. Ballard, Niagara Falls, Ontario, Canada, assignors to Norton Company, Worcester, Mass. Treating magnesia and electrical insulating material derived therefrom. 2,280,516; Apr. 21.
Ridgway, Raymond R., Niagara Falls, N. Y., and A. H. Ballard, Niagara Falls, Ontario, Canada, assignors to Norton Company, Worcester, Mass. Electrical insulation of modified magnesia and making the same. 2,280,517; Apr. 21.
Ring Balance Instrument Company. (See Vetter, Otto B., assignor.)
Risser, Arthur I., assignor to U. S. Bottlers Machinery Company, Chicago, Ill. Container cleaning machine. 2,280,424; Apr. 21.
Roberts, James D., et al. (See Neal, Ernest C., assignor.)
Roberts, Walter van B., Princeton, N. J., assignor to Radio Corporation of America. Piezo-electric crystal filter circuit. 2,280,605; Apr. 21.
Roberts, Walter van B., Princeton, N. J., assignor to Radio Corporation of America. Electronic reactance circuits. 2,280,606; Apr. 21.
Roberts, Walter van B., Princeton, N. J., assignor to Radio Corporation of America. Frequency modulation receiver tuning indicator. 2,280,607; Apr. 21.
Roblin, Richard O., Jr., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Stabilization of aldehydes. 2,280,311; Apr. 21.
Rochester Manufacturing Co. Incorporated. (See Ford, George E., assignor.)
Roehner, Theodore G. (See Koppenhoefer, R., and Roehner.)
Rogers, Gene E. (See Young, Walter H., assignor.)
Rohm & Haas Company. (See Diehm, Robert A., assignor.)
Rolph, Thomas W., and K. Franck, Newark, Ohio, assignors to Holophane Company, Inc., New York, N. Y. Luminaire. 2,280,160; Apr. 21.
Root, Robert S. (See Spase, C. B., and Root.)
Rosenberger, George W., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Register reset. 2,280,161; Apr. 21.
Rosendale, Robert W., Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Cabinet. 2,280,542; Apr. 21.
Rossini, Caesar, and T. D. Pieragostini, New Haven, Conn. Broiler. 2,280,131; Apr. 21.
Rotalac Limited. (See Larmuth, William O., assignor.)
Rotary Lift Company. (See Joseph, Lawrence F., assignor.)
Rotobowling Corporation. (See Whittle, Orville F., assignor.)
Royal Typewriter Company. (See Handley, George F., assignor.)
Royster, Percy H., Toledo, Ohio. Preparation of ferrochromium in blast furnaces. 2,280,452; Apr. 21.
Rucker, Clement R. (See Rucker, Robert W. and C. R.)

Rucker, Robert W. and C. R., near Dalton City, Ill. Harvester. 2,280,453; Apr. 21.
Rue, Albert A., Raymond, Wash. Coupler or separable fastener. 2,280,162; Apr. 21.
Ruff, Alonzo W., assignor to York Oil Burner Co., Inc., York, Pa. Burner apparatus. 2,280,633; Apr. 21.
Rumbaugh, Hugh M., Pittsburgh, Pa. Ironer cabinet. 2,280,718; Apr. 21.
Rumbaugh, Hugh M., Pittsburgh, Pa. Ironer. 2,280,719; Apr. 21.
Rumbaugh, Hugh M., Pittsburgh, Pa. Ironing garments. 2,280,720; Apr. 21.
Rutherford, Frank C., assignor to Lightning Fastener Company, Limited, St. Catharines, Ontario, Canada. Applying reinforcing strip to slide fasteners. 2,280,664; Apr. 21.
Ryan, George F., Peabody, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Pattern reproducing machine. 2,280,163; Apr. 21.
Sacre, Charles E., Boston, Mass. Tobacco box and package. 2,280,164; Apr. 21.
Salzberg, Paul L. (See Hanford, W. E., and Salzberg.)
Sandell, Harry J., Long Beach, Calif. Conducting and dispensing system for beer. 2,280,266; Apr. 21.
Sanders, Charles M., Jr., Oak Park, Ill., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Air conditioning apparatus. 2,280,425; Apr. 21.
Saukaitis, Albert J., Wayne, Pa., assignor to American Chemical Paint Company, Ambler, Pa. Regulating the growth of plants. 2,280,756; Apr. 21.
Saunders, John T., Chicago, Ill. Cigarette holder and extinguisher. 2,280,543; Apr. 21.
Schaefer, Norbert F., assignor to Anderson Box Company, Indianapolis, Ind. Chick box structure. 2,280,544; Apr. 21.
Scharfnagel, Rudolf, Stuttgart, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Electric discharge vessel. 2,280,454; Apr. 21.
Schauer, Walter E., Forest Park, assignor to Otarion, Inc., Chicago, Ill. Clip structure. 2,280,304; Apr. 21.
Schauer, Walter E., Forest Park, assignor to Otarion, Inc., Chicago, Ill. Volume control for hearing aids. 2,280,305; Apr. 21.
Schelameur, Pierre, et al. (See Vautherin, Henry L. A., assignor.)
Schering Corporation. (See Inhoffen, H. H., Logemann, and Dannenbaum, assignors.)
Schilling, Andreas, and W. Schneider, Dessau, and G. Wilmanns, Wolfen, Kreis Bitterfeld, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Developing photographic pictures. 2,280,721; Apr. 21.
Schipper, Emil H., Pasadena, Calif. Razor blade sharpener. 2,280,312; Apr. 21.
Schmitter, Bernard A., Rahway, N. J., assignor to Stanco, Incorporated. Tube and bulb assembling machine. 2,280,665; Apr. 21.
Schneider, Wilhelm. (See Schilling, A., Schneider, and Wilmanns.)
Schneider, Wilhelm and A. Frölich, Dessau, Germany. Color photography. 2,280,722; Apr. 21.
Schoch, Thomas J., assignor to Corn Products Refining Company, New York, N. Y. Purification of starches. 2,280,723; Apr. 21.
Schock, Robert E., Riverhead, N. Y., assignor to Radio Corporation of America. Diode phase detector. 2,280,545; Apr. 21.
Shockey, Edward, Canton, assignor to Republic Steel Corporation, Cleveland, Ohio. Light reflecting and distributing ceiling structure. 2,280,640; Apr. 21.
Schofield, William B., New York, N. Y. Frame for spectacles. 2,280,666; Apr. 21.
Schroeder, Simon E., Chicago, Ill., assignor to Barlow & Seelig Mfg. Co., Ripon, Wis. Wringer. 2,280,313; Apr. 21.
Schuler, Elmer B., assignor to The White Company, Baltimore, Md. Protein solution, paint, and method. 2,280,546; Apr. 21.
Schultz, Lloyd G., New York, N. Y. Method and apparatus for treating orchards for frost and plant pests. 2,280,267; Apr. 21.
Schultz, Marion B. (See Ainsworth, R. C., and Schultz.)
Schutz, Harold R., Toledo, Ohio, assignor to Libbey Glass Company. Apparatus for making hollow glass articles. 2,280,268; Apr. 21.
Schutz, Karl. (See Zerweck, W., and Schutz.)
Schwartz, Donald L. V. (See Swartz, C. E., and Schwartz.)
Scofield, William W., Old Greenwich, Conn. Device for raising sunken vessels. 2,280,547; Apr. 21.
Scott, Albert B., Douglaston, N. Y., and J. A. Sultzaberger, assignors to Parke, Davis & Company, Detroit, Mich. Organic arsenic compound and method of obtaining the same. 2,280,132; Apr. 21.
Scott & Fetzer Company, The. (See Pardee, Lloyd W., assignor.)
Scott, Lloyd H., Garden City, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Ignition system. 2,280,426; Apr. 21.
Scott, Ray W., and A. O. McCollum, Detroit, Mich., assignors to Bendix Home Appliances, Inc., South Bend, Ind. Mixing device. 2,280,667; Apr. 21.
Scott & Williams, Incorporated. (See Goyette, Lucien A., assignor.)
Scudder, Mason, Clayton, assignor to Rawlings Manufacturing Company, St. Louis, Mo. Making inflatable balls. 2,280,314; Apr. 21.
Sebastian, Charles, St. Louis, Mo. Reversible handle. 2,280,165; Apr. 21.
Segal, Samuel, Brooklyn, N. Y. Latch. 2,280,084; Apr. 21.
Serrick, Leo F. (See Norman, E. B., Pettit, and Serrick.)
Servel, Inc. (See Andersson, Sven W. E., assignor.)
Servel, Inc. (See Nave, Alfred E., assignor.)
Servel, Inc. (See Taylor, Robert S., assignor.)
Seuberling, Harry P., Cincinnati, Ohio. Road joint. 2,280,455; Apr. 21.
Sharp, John E., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Closure and container. 2,280,724; Apr. 21.
Sheesley, Horace A., assignor to Tufide Products Corporation, Portland, Maine. Shoe heel and making same. 2,280,099; Apr. 21.
Sheffield, William F., Sparrows Point, Md. Battle light. 2,280,548; Apr. 21.
Sheldon Machine Company. (See Zupan, Leo, assignor.)
Shell Development Company. (See Waterman, H. I., and Leendertse, assignors.)
Shelton, Robert S., Mariemont, assignor to The Wm. S. Merrell Company, Reading, Ohio. Complex compounds of quinates and diuretics. 2,280,639; Apr. 21.
Shepard, Francis H., Jr., Merchantville, N. J., assignor to Radio Corporation of America. Self-balancing capacity altimeter. 2,280,725; Apr. 21.
Sherlock, Margaret L., Vancouver, British Columbia, Canada. Fly protector. 2,280,668; Apr. 21.
Shipman, Mildred K., San Francisco, Calif. Stage effect and display device. 2,280,315; Apr. 21.
Shortland, Arthur. (See Bromley, T. C., and Shortland.)
Siekmann, Harold J. (See Groene, W. F., and Siekmann.)
Sinden, Alfred D., Aurora, Ill., assignor to Redler Conveyer Company, Quincy, Mass. Conveying apparatus. 2,280,166; Apr. 21.
Singleton, Francis D., Newark, assignor of one-half to F. C. Mitchell, Wilmington, Del. Fluid pressure apparatus. 2,280,100; Apr. 21.
Skchan, Joseph W. (See Machlett Laboratories Incorporated.)
Sklenár, Ignac, Paris, France. Engine. 2,280,669; Apr. 21.
Slayter, Games, F. W. Atkinson, E. Fletcher, and H. V. Smith, Newark, assignors to Owens-Corning Fiberglas Corporation, Toledo, Ohio. Electric furnace and melting method. 2,280,101; Apr. 21.
Smallwood, Thomas B., et al. (See Hodges, Vera C., assignor.)
Smickle, Raymond H., Belvidere, N. J., assignor to Ingersoll-Rand Company, New York, N. Y. Locking device for throttle valves. 2,280,549; Apr. 21.
Smith, Harry V. (See Slayter, G., Atkinson, Fletcher, and Smith.)
Smith, Hirman P. (See Mott, C. W., and Smith.)
Smith, Hubert. (See Wilkin, L. A., and Smith.)
Smith, Phillip H., Denville, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Concentric conductor transmission line. 2,280,200; Apr. 21.
Smith-Rowland Company. (See Reinders-Folmer, Herman C., assignor.)
Smith, Watt V., assignor to Crane Co., Chicago, Ill. Valve. 2,280,757; Apr. 21.
Smithson, James S. (See Halloway, D. E., and Smithson.)
Smitley, Wayne C., Cleveland Heights, Ohio, assignor to General Electric Company. Thermal switch. 2,280,550; Apr. 21.
Snow, Herbert C., Auburn, Ind., assignor to Automatic Shifters, Inc., Richmond, Va. Transmission shifting mechanism. 2,280,641; Apr. 21.
Société Rateau, et al. (See Auxionnaz, R., and Imbert, assignors.)
Socony-Vacuum Oil Company. (See Byrkit, G. D., Steiner, and Lincoln, assignors.)
Socony-Vacuum Oil Company. (See Koppenhoefer, R. M., and Roehner, assignors.)
Somerville, Gareth G., Pittsfield, Mass., assignor to General Electric Company. Welding apparatus. 2,280,551; Apr. 21.
Somes, Howard E., Grosse Pointe Park, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Heat treatment. 2,280,102; Apr. 21.
Somes, Howard E., Groose Pointe Park, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Method and apparatus for manufacturing piston rings. 2,280,552; Apr. 21.
Soubier, Leonard D., Toledo, Ohio, assignor to Owens-Illinois Glass Company. Glass working apparatus and method. 2,280,167; Apr. 21.
South Carolina National Bank of Charleston, The. (See Harris, William A., assignor.)
Sparklin, Charles H., assignor to Birtman Electric Company, Chicago, Ill. Suction cleaner. 2,280,269; Apr. 21.
Spase, Charles B., Nedrow, assignor to W. C. Lipe, Inc., Syracuse, N. Y. Heavy-duty clutch. 2,280,357; Apr. 21.

Spase, Charles B., Nedrow, and R. S. Root, assignors to W. C. Lipe, Inc., Syracuse, N. Y. Automatic wear take-up for friction clutches. 2,280,355; Apr. 21.
Spase, Charles B., Nedrow, and R. S. Root, assignors to W. C. Lipe, Inc., Syracuse, N. Y. Friction clutch. 2,280,356; Apr. 21.
Specialties Manufacturing Company. (See Honegger, John A., assignor.)
Sperry, Elmer A., Jr., New York, N. Y., assignor to Sperry Products, Inc., Hoboken, N. J. Magnetic compass. 2,280,726; Apr. 21.
Sperry Gyroscope Company, Inc. (See Carlson, Bert G., assignor.)
Sperry Products, Inc. (See Sperry, Elmer A., Jr., assignor.)
Spielman, Sterling C., assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Cathode ray tube circuit. 2,280,670; Apr. 21.
Spock, Andrew, Weatherly, Pa. Skid chain applying tool. 2,280,316; Apr. 21.
Spotswood Specialty Company. (See Mull, Arthur B., assignor.)
Srygley, Harry W., Abilene, Tex. Attachment for safe knobs. 2,280,553; Apr. 21.
Stackpole Carbon Company. (See Andrews, Lewis D., assignor.)
Stanco, Incorporated. (See Schmitter, Bernard A., assignor.)
Standard Oil Company, The. (See Burk, R. E., and Hughes, assignors.)
Standard Oil Development Company. (See Calhoun, Van B., assignor.)
Standard Oil Development Company. (See Cloud, Gould H., assignor.)
Standard Oil Development Company. (See Gillespie, Bruce G., assignor.)
Standard Oil Development Company. (See Jones, Minor C. K., assignor.)
Standard Oil Development Company. (See Lynch, Charles S., assignor.)
Standard Oil Development Company. (See Mack, Charles, assignor.)
Standard Oil Development Company. (See Paulsen, H. C., and Collins, assignors.)
Standard Oil Development Company. (See Pokorny, Oldrich S., assignor.)
Standard Oil Development Company. (See Reeves, Edward D., assignor.)
Standard Register Company, The. (See Metzner, Albert W., assignor.)
Stanolind Oil and Gas Company. (See Lang, Harold M., assignor.)
Starr, Arthur T. (See Colchester, C. D., and Starr.)
Stechbart, Bruno, assignor to The Bell & Howell Company, Chicago, Ill. Driving mechanism. 2,280,727; Apr. 21.
Steele, Frederick I. (See Harder, J. B., and Steele.)
Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Refrigerator cabinet. 2,280,554; Apr. 21.
Stehle, Carl F., Caldwell, and H. Glodde, Paterson, N. J. Fuel supply mechanism. 2,280,317; Apr. 21.
Stein, Harold J., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Making temperature stabilized shafts. 2,280,671; Apr. 21.
Steiner, Waldo L. (See Byrkit, G. D., Steiner, and Lincoln.)
Stenger, Edwin P., assignor to The Cincinnati Mine Machinery Company, Cincinnati, Ohio. Cutter chain. 2,280,502; Apr. 21.
Stephens, Henry M. (See Workman, Earl, assignor.)
Stephenson, Arthur, assignor to The British Oxygen Company Limited, London, W. 1, England. Container for fluids under pressure. 2,280,501; Apr. 21.
Stephenson, Thomas I., Jr., Maryville, Tenn., assignor to Aluminum Company of America, Pittsburgh, Pa. Pressure-release mechanism. 2,280,764; Apr. 21.
Sterner, Harold A., Hanover, Pa., and E. H. Tschudy, Baltimore, Md. Skid shoe. 2,280,555; Apr. 21.
Steuber, George A., Penfield, N. Y., assignor to Despatch Shops, Inc. Railroad car. 2,280,318; Apr. 21.
Stevens, Sydney A., and A. H. B. Walker, London, England, assignors, by mesne assignments, to The Union Switch and Signal Company, Swissvale, Pa. Conversion of single-phase alternating electric currents to polyphase currents. 2,280,456; Apr. 21.
Stoddard, William B., Jr., Hamilton, Ohio. Preparing cuprous oxide. 2,280,168; Apr. 21.
Stoner, Arthur M., West Hartford, assignor to The Jacobs Manufacturing Company, Hartford, Conn. Nut lock. 2,280,270; Apr. 21.
Stout, Raymond K. (See Crane, C. J., and Stout.)
Stowe-Woodward, Inc. (See Wilkie, Robert J., assignor.)
Streib, Albrecht, Port Jefferson Station, N. Y., assignor to Radio Corporation of America. Telescoping high frequency electrical conductor. 2,280,728; Apr. 21.
Stromgren, Charles D., Los Angeles, Calif. Wax applicator. 2,280,556; Apr. 21.
Stromgren, Charles D., Los Angeles, Calif. Piston ring compressor. 2,280,557; Apr. 21.
Stronp, Philip T., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Aluminum alloy. 2,280,169; Apr. 21.
Stroup, Philip T., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Aluminum alloy. 2,280,170; Apr. 21.
Stroup, Philip T., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Aluminum alloy. 2,280,171; Apr. 21.
Stroup, Philip T., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Aluminum alloy. 2,280,172; Apr. 21.
Stroup, Philip T., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Aluminum alloy. 2,280,173; Apr. 21.
Stroup, Philip T., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Aluminum alloy. 2,280,174; Apr. 21.
Stroup, Philip T., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Aluminum alloy. 2,280,175; Apr. 21.
Stroup, Philip T., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Aluminum alloy. 2,280,176; Apr. 21.
Stroup, Philip T., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Aluminum alloy. 2,280,177; Apr. 21.
Stroup, Philip T., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Aluminum alloy. 2,280,178; Apr. 21.
Stuebing, William, Jr., assignor to Lift Trucks Incorporated, Cincinnati, Ohio. Lift truck. 2,280,104; Apr. 21.
Sturgess, Inc. (See Sturgess, John, assignor.)
Sturgess, John, Glendale, assignor to Sturgess, Inc., Los Angeles, Calif. Cable tension governor. 2,280,105; Apr. 21.
Sturgess, John, Glendale, assignor to Sturgess, Inc., Los Angeles, Calif. Cable tension controller. 2,280,106; Apr. 21.
Sturtevant, B. F., Company. (See Hemming, H., and Peterson, assignors.)
Stute, William, Varna, Ill. Attachment for rolling colters. 2,280,107; Apr. 21.
Sudduth, Henry N., Watertown, N. Y., assignor to The New York Air Brake Company. Sanding relay. 2,280,319; Apr. 21.
Sullivan, Alan P., Elizabeth, N. J., assignor to Cities Service Oil Company, New York, N. Y. Fluid pump. 2,280,271; Apr. 21.
Sullivan, Alan P., Elizabeth, N. J., assignor to Cities Service Oil Company, New York, N. Y. Fluid pump. 2,280,272; Apr. 21.
Sultzaberger, James A. (See Scott, A. B., and Sultzaberger.)
Sulzer Freres, Societe Anonyme. (See Atteslander, Eduard, assignor.)
Sun Oil Company. (See Perkins, Holloway W., assignor.)
Sundbach, Carl, East Weymouth, Mass. Refrigeration apparatus. 2,280,133; Apr. 21.
Super Mold Corporation of California. (See Glynn, Edwin A., assignor.)
Super-Seal Container Corporation. (See Glocker, Gustave, assignor.)
Sutcliffe, Harry M., National City, Calif. Illuminated fishing bob. 2,280,457; Apr. 21.
Sutton, Oscar P., Euclid, Ohio. Movable canopy and cockpit cover. 2,280,729. Apr. 21.
Swartz, Carl E., Cleveland Heights, and D. L. V. Schwartz, assignors. to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Rolled copper alloy article. 2,280,103; Apr. 21.
Sylvester, Walter G. (See Hughey, H. G., and Sylvester.)
Talbot, Richard C., assignor to Wright's Automatic Tobacco Packing Machine Company, Durham, N. C. Bottle stamper. 2,280,730; Apr. 21.
Talbot, Richard C., Joliet, Ill., assignor to Wrights Automatic Tobacco Packing Machine Company, Durham, N. C. Sheet feeding and transferring means. 2,280,731; Apr. 21.
Taylor, James Y. (See Neumueller, J. F., and Taylor.)
Taylor, Robert S., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,280,273; Apr. 21.
Taylor-Wharton Iron and Steel Company. (See Andrews, C. B., and Hanks, assignors.)
Taylor, William H., Waukesha County, assignor to The Vilter Manufacturing Company, Milwaukee, Wis. Ice machine. 2,280,320; Apr. 21.
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Ilberg, Waldemar, assignor.)
Temprite Products Corporation. (See Graham, Frank O., assignor.)
Terroni, Teseo B. D., Broadgreen, Liverpool, assignor to Automatic Telephone & Electric Company Limited, London, England. Automatic gain control. 2,280,672; Apr. 21.
Tharrington, John A., Rocky Mount, N. C. Heating device for tobacco curing barns. 2,280,458; Apr. 21.
Theler, Frederick J. (See Binns, George W., and Theler.)
Thomas, Charles L., assignor to Universal Oil Products Company, Chicago, Ill. Catalytic cracking. 2,280,673; Apr. 21.
Thomas, Charles L., assignor to Universal Oil Products Company, Chicago, Ill. Chemical reaction control. 2,280,674; Apr. 21.
Thomas, George J., Detroit, Mich. Vehicle brake. 2,280,134; Apr. 21.
Thomimen, Hans, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Gas blast circuit breaker. 2,280,321; Apr. 21.

Thompson, Arthur S., Ontario, Calif. Bumper and license plate holder. 2,280,558; Apr. 21.
Thompson Products Company. (See Colwell, Archie T., assignor.)
Thompson, Tom H., Detroit, Mich. Spring liner. 2,280,201; Apr. 21.
Thum, Martin, Rochester, N. Y. Convertible rocking chair. 2,280,732; Apr. 21.
Thurman, Benjamin H., Bronxville, N. Y., assignor to Refining, Inc., Reno, Nev. Phosphatidic composition. 2,280,427; Apr. 21.
Tietig, Chester, Covington, Ky. Window shade or the like. 2,280,358; Apr. 21.
Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Ophthalmic lens. 2,280,322; Apr. 21.
Times Telephoto Equipment Inc. (See Cooley, A. G., and Dillenback, assignors.)
Timken Roller Bearing Company, The. (See Hexamer, Homer L., assignor.)
Timmermann, Daniel D., Palm Springs, Calif. Vehicle-operated door. 2,280,675; Apr. 21.
Tobey, Raymond E., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigerating apparatus. 2,280,202; Apr. 21.
Tolson, William A., Westmont, N. J., assignor to Radio Corporation of America. Deflecting circuits. 2,280,733; Apr. 21.
Tone, Frederick F., assignor to Kalva Venders, Inc., Chicago, Ill. Vending machine. 2,280,323; Apr. 21.
Tornquist, Earl L., Elmhurst, assignor of one-half to J. A. Dienner, Evanston, Ill. Multiple lensed motion picture camera. 2,280,608; Apr. 21.
Toulmin, Harry A., Jr., Dayton, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Mechanism for synchronising multiple prime movers. 2,280,203; Apr. 21.
Toyad Corporation. (See Halsall, Thomas M., assignor.)
Tracy, Oliver H., Portland, Oreg. Pie making machine. 2,280,324; Apr. 21.
Tracy, Parker C., Toledo, Ohio, assignor to Owens-Illinois Glass Company. Method and means for removing flash. 2,280,204; Apr. 21.
Trantin, Jacob, Jr., Youngstown, Ohio. Alloy. 2,280,179; Apr. 21.
Traum, David, assignor to Dritz-Traum Company, Inc., New York, N. Y. Merchandise package. 2,280,503; Apr. 21.
Trollen, Martin E., assignor to Brown & Bigelow, St. Paul, Minn. Plastic trim calendar holder. 2,280,676; Apr. 21.
Trudell, Charles P., Buffalo, N. Y., assignor to Curtiss-Wright Corporation. Sheet metal forming apparatus. 2,280,359; Apr. 21.
Tschudy, Eli H. (See Sterner, H. A., and Tschudy.)
Tufide Products Corporation. (See Sheesley, Horace A., assignor.)
Tuthill Pump Company. (See Huber, Matthew W., assignor.)
Tyler, Harold B., Memphis, Tenn. Cycle hitch. 2,280,734; Apr. 21.
Udylite Corporation, The. (See High, Le Roy B., assignor.)
Ullman, Roy, Roslyn, assignor to The Brown Instrument Company, Philadelphia, Pa. Measuring instrument. 2,280,459; Apr. 21.
U-Need-A-Pak Products Corporation. (See Cook, George E., assignor.)
Union Oil Company of California. (See Merrill, David R., assignor.)
Union Special Machine Company. (See Le Vesconte, Harold J., assignor.)
Union Special Machine Company. (See Peterson, Albert C., assignor.)
Union Switch & Signal Company, The. (See Kemmerer, Ralph R., assignor.)
Union Switch and Signal Company, The. (See Stevens, S. A., and Walker, assignors.)
Union Switch & Signal Company. (See Witmer, Harold G., assignor.)
United Aircraft Corporation. (See Martin, Erle, assignor.)
United Aircraft Corporation. (See Martin, E., Anderson, and Beebe, assignors.)
United Aircraft Corporation. (See Newcomb, Phillip P., assignor.)
United Autographic Register Co. (See Cooke, Allen B., assignor.)
United Autographic Register Co. (See Euth, John E., assignor.)
United Shoe Machinery Corporation. (See Duran, John A., assignor.)
United Shoe Machinery Corporation. (See Jorgensen, Jacob C., assignor.)
United Shoe Machinery Corporation. (See Quinn, E., and Bathaway, assignors.)
United Shoe Machinery Corporation. (See Ryan, George F., assignor.)
U. S. Bottlers Machinery Company. (See Risser, Arthur I., assignor.)
U. S. Slicing Machine Company. (See Brustowsky, Morris, assignor.)
U. S. Slicing Machine Company. (See Van Berkel, Wilhelmus A., assignor.)
Universal Oil Products Company. (See Kanhofer, Elmer R., assignor.)
Universal Oil Products Company. (See Kassel, Louis S., assignor.)
Universal Oil Products Company. (See Thomas, Charles L., assignor.)
Utterbach, Ernest S. (See Prickett, T. B., and Utterbach.)
Van Berkel, Wilhelmus A., Clarens, Montreux, Switzerland, assignor to U. S. Slicing Machine Company, La Porte, Ind. Slicing machine. 2,280,205; Apr. 21.
Van Cleave, Edwin E., Chicago, Ill. Pinion assembly for hand brakes. 2,280,180; Apr. 21.
Vanderberg, Glen C. (See Bolster, R. H., and Vanderberg.)
Van Fleet, James, as administrator. (See Young, Walter H.)
Van Tassel, Edward D., Jr., Newtonville, assignor to A. S. Guterman, Brookline, Mass. Sole and making. 2,280,108; Apr. 21.
Varela, Arthur A., Washington, D. C. Beat frequency altimeter. 2,280,109; Apr. 21.
Vaughn, De Will G., assignor of one-half to W. G. Purcell, Richmond, Va. Direction signal for vehicles. 2,280,559; Apr. 21.
Vautherin, Henry M. A., Nancy, assignor of one-half to P. Schelameur and one-half to Y. E. M. J. de Liniers, Saint Vit, France. Protective treatment for wood. 2,280,560; Apr. 21.
Velare, Curtis J., et al. (See Courtney, John F., assignor.)
Velare, Elmer C., et al. (See Courtney, John F., assignor.)
Ventre, Emil K., Baton Rouge, La., and H. S. Paine, Chevy Chase, Md., assignors to C. R. Wickard, as Secretary of Agriculture of the United States of America, and to his successors in office. Sugar from sorghum juices. 2,280,085; Apr. 21.
Vetter, Otto B., assignor to Ring Balance Instrument Company, Chicago, Ill. Flow and pressure measuring device. 2,280,325; Apr. 21.
Vickers Incorporated. (See Herman, K. R., and Harrington, assignors.)
Vilter Manufacturing Company, The. (See Taylor, William H., assignor.)
Vineberg, Joseph H., Ottawa, Ontario, Canada. Package. 2,280,138; Apr. 21.
Vitarama Corporation. (See Waller, F., and Walker, assignors.)
Voigt, Paul A., Bellerose Manor, and J. E. Johansen, Brooklyn, assignors to Johns-Manville Corporation, New York, N. Y. Apparatus for use in insulating structures. 2,280,460; Apr. 21.
Von Kohorn zu Kornegg, Oscar, New York, N. Y., assignor, by mesne assignments, to Fibres Associates, Inc. Manufacturing staple fiber with high stretching capacity. 2,280,326; Apr. 21.
Voorhies, Carl, Detroit, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio. Hollow valve structure. 2,280,758; Apr. 21.
Wagner, Omar P. and O. E., Eppards Point Township, Livingston County, Ill. Forced feed cutter and spreader for combines. 2,280,677; Apr. 21.
Wagner, Oscar E. (See Wagner, Omar P. and O. E.)
Wahl, Cecil L. (See Broomfield, Frank, assignor.)
Walker, Alec H. B. (See Stevens, S. A., and Walker.)
Walker, Ralph. (See Waller, F., and Walker.)
Waller, Fred, Huntington, and R. Walker, Chappaqua, assignors to Vitarama Corporation, New York, N. Y. Motion picture theatre. 2,280,206; Apr. 21.
Walsh, Florence Z., Hyde Park, N. Y. Garment. 2,280,360; Apr. 21.
Wappler, Frederick C., New York, N. Y. Camera attachment for surgical instruments. 2,280,561; Apr. 21.
Ward, Theodore W. H., New York, N. Y. Conductive coating for glass and method of application. 2,280,135; Apr. 21.
Ware, David C., Laguna Beach, Calif. Grounding device for vehicles. 2,280,327; Apr. 21.
Waterman, Hein I., Delft, and J. J. Leendertse, Overveen, Netherlands, assignors to Shell Development Company, San Francisco, Calif. Hydrohalogenation of olefines. 2,280,207; Apr. 21.
Waymouth Gauges & Instruments Limited. (See Weymouth, Henry, assignor.)
Waymouth, Henry, assignor to Waymouth Gauges & Instruments Limited, London, England. Apparatus for the measurement of electrical reactance. 2,280,678; Apr. 21.
Weagant, Roy A., Douglaston, N. Y., assignor to Radio Corporation of America. Tunable nondirective loop circuits. 2,280,562; Apr. 21.
Webster Electric Company. (See Campbell, Richard H., assignor.)
Webster, Winfield L., and E. J. Rann, Windsor, Ontario, Canada, assignors to National Automotive Fibres, Inc., Detroit, Mich. Apparatus for decorating fabric. 2,280,136; Apr. 21.
Weien, Paul, assignor of one-half to H. S. Rich, Marietta, Pa. Direction signal switch. 2,280,110; Apr. 21.

Weinberger, Julius, Bronxville, N. Y., assignor to Radio Corporation of America. Automatic selectivity control circuit. 2,280,563; Apr. 21.
Weissinger, Harry, Philadelphia, Pa. Brush holder and tension device. 2,280,735; Apr. 21.
Weltmer, Tracy C., Kansas City, Mo., and C. J. Regan, Omaha, Nebr., assignors to Interstate Bakeries Corporation, Kansas City, Mo. Printing device. 2,280,328; Apr. 21.
Western Electric Company. (See Brescka, Rudolph S., assignor.)
Western Electric Company. (See Pfeiffer, John G., assignor.)
Western Electric Company. (See Rosendale, Robert W., assignor.)
Western Union Telegraph Company. (See Franklin, Lawrence W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Derr, Willard A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Rosenberger, George W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Sanders, Charles M., Jr., assignor.)
Westinghouse Electric & Manufacturing Company. (See Tobey, Raymond E., assignor.)
Wheeler, Harold A., Great Neck, and R. L. Freeman, Flushing, N. Y., assignors to Hazeltine Corporation. Carrier-signal receiver. 2,280,139; Apr. 21.
Whisk, Samuel, assignor of one-half to M. Abrams and M. Zippert, jointly, Brooklyn, N. Y. Elimination of atmospheric radio disturbances. 2,280,461; Apr. 21.
White Company, The. (See Schuler, Elmer B., assignor.)
White, Fred L., assignor to The Osgood Company, Marion, Ohio. Excavator. 2,280,329; Apr. 21.
White, Harry J., Los Angeles, Calif., assignor to Research Corporation, New York, N. Y. Power circuit for electrical precipitators. 2,280,330; Apr. 21.
Whitehead, William A. (See Quick, C. G., and Whitehead.)
Whiteley, Robert H., Oak Park, assignor to Randall Graphite Products Corporation, Chicago, Ill. Oil cup. 2,280,462; Apr. 21.
Whittle, Orville F., Miami, Fla., assignor to Rotobowling Corporation. Apparatus for propelling bowling balls. 2,280,331; Apr. 21.
Whittle, Orville F., Miami, Fla., assignor to Rotobowling Corporation. Automatic loader for power bowling machines. 2,280,332; Apr. 21.
Wickard, Claude R., Secretary of Agriculture of the United States of America. (See Ventre, E. K., and Paine, assignors.)
Widell, Magnus E., Cincinnati, Ohio, assignor to American Can Company, New York, N. Y. Electric welding. 2,280,111; Apr. 21.
Wiegand, Martin W., assignor to The Huenefeld Company, Cincinnati, Ohio. Fabricating a thermo electric element. 2,280,137; Apr. 21.
Wildermuth, Henry E., St. Paul, Minn. Vertebrae manipulating and massaging device. 2,280,274; Apr. 21.
Wilkie, Robert J., Newton, assignor to Stowe-Woodward, Inc., Newton Upper Falls, Mass. Press roll. 2,280,208; Apr. 21.
Wilkin, Lester A., and H. Smith, East Chicago, Ind., assignors to Graver Tank & Mfg. Co., Inc., Catasauqua, Pa. Breather roof. 2,280,679; Apr. 21.
Williams, Alfred L., assignor to Raecolith Flooring Co., Seattle, Wash. Production of marbled cementitious floors. 2,280,333; Apr. 21.
Williams Oil-O-Matic Heating Corporation. (See Zellhoefer, Glenn F., assignor.)
Williamson, Eugene D., Afton, Wyo. Combination tool. 2,280,463; Apr. 21.
Williamson, Marshall L., New York, N. Y. Puzzle and puzzle game. 2,280,609; Apr. 21.
Wilmanns, Gustav. (See Schilling, A., Schneider, and Wilmanns.)
Wilmot Castle Company. (See Greppin, Ernest H., assignor.)
Wilson, Chester E., San Pedro, Calif. Compounded oil. 2,280,419; Apr. 21.
Wilson, John C., Bayside, N. Y., assignor to Hazeltine Corporation. Synchronizing-signal separating apparatus. 2,280,181; Apr. 21.
Wilson, John H., Wichita Falls, Tex. Fuel supply means for power plants. 2,280,140; Apr. 21.
Wilson, Tom, Baltimore, Md., assignor to Bethlehem Steel Company. Uncoiling device. 2,280,564; Apr. 21.
Winther, Martin P., Waukegan, Ill., assignor to M. P. Winther, as trustee. Air conditioning and lighting system for vehicles. 2,280,736; Apr. 21.
Winther, Martin P., as trustee. (See Winther, Martin P., assignor.)
Winthrop Chemical Company. (See Mietzsch, F., and Klarer, assignors.)
Witmer, Harold G., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway track circuit apparatus. 2,280,464; Apr. 21.
Wittman, Richard C., Emporium, Pa. Electric light cord extension. 2,280,680; Apr. 21.
Wood, Frank E. (See Cartter, W. G., and Wood.)
Wood, Morris B., Newbury, assignor to The Chase-Shawmut Company, Newburyport, Mass. Cartridge fuse. 2,280,565; Apr. 21.
Workman, Earl, assignor of one-half to H. M. Stephens, Montgomery, W. Va. Portable mine junction box. 2,280,334; Apr. 21.
Wright Aeronautical Corporation. (See Chilton, Roland, assignor.)
Wright, Carl E. (See Grant, F. R., and Wright.)
Wright, David M., Agricola, Fla., assignor to Industrial Patents Corporation, Chicago, Ill. Classifying rake. 2,280,209; Apr. 21.
Wright's Automatic Tobacco Packing Machine Company. (See Talbot, Richard C., assignor.)
Yanes, Francisco G., assignor of thirty per cent to T. Pacanins, New York, N. Y., and fifteen per cent to F. Gomez, Trujillo City, Dominican Republic. Polychromatic pad for use in color photography. 2,280,112; Apr. 21.
York Oil Burner Co. (See Ruff, Alonzo W., assignor.)
Young, Frank C., Cranford, N. J. Vehicle signal device. 2,280,275; Apr. 21.
Young, Walter H., deceased, by J. Van Fleet, Detroit, Mich., administrator, assignor, by mesne assignments, to G. E. Rogers, Cincinnati, Ohio. Vibratory electrical tool. 2,280,610; Apr. 21.
Zaiger, Max, Swampscott, Mass. Windshield wiper clip. 2,280,566; Apr. 21.
Zellhoefer, Glenn F., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Generator. 2,280,210; Apr. 21.
Zerweck, Werner, and K. Schütz, Frankfort-on-the-Main-Fechenheim, Germany, assignors to General Aniline & Film Corporation. Producing compounds of the diaryl series. 2,280,504; Apr. 21.
Zimniak, Edmund, Dresden, Germany, assignor, by mesne assignments, to J. C. Muller N. V., Rotterdam, Holland. Cigarette box packing device. 2,280,335; Apr. 21.
Zippert, Morris, et al. (See Whisk, Samuel, assignor.)
Zupan, Leo, assignor to Sheldon Machine Company, Inc., Chicago, Ill. Variable speed drive. 2,280,182; Apr. 21.
Zwickel, Elmer L., as executor. (See Brennan, Daniel A.)

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 21ST DAY OF APRIL, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Bushing. L. J. Stevens. Re. 22,079; Apr. 21.
Cleaner, Suction. W. H. Kitto. Re. 22,077; Apr. 21.
Electric current converting system. D. I. Bohn. Re. 22,075; Apr. 21.
Reflection of light from surfaces and articles so produced. C. H. Cartwright. Re. 22,076; Apr. 21.
Silver formation. R. C. Newman and J. W. Romig. Re. 22,078; Apr. 21.

LIST OF DESIGN INVENTIONS

Airplane. D. R. Davis. 132,146; Apr. 21.
Badge or similar article. A. N. D. Attayer. 132,141; Apr. 21.
Badge or the like. G. C. Potts. 132,134; Apr. 21.
Bottle. W. J. Lundy. 132,128; Apr. 21.
Box and dispenser, Playing card. D. M. Holstein. 132,138; Apr. 21.
Box or similar article, Cigarette. L. Guild. 132,126; Apr. 21.
Brooch. H. C. Maloney. 132,129; Apr. 21.
Broom. L. F. Clements. 132,113; Apr. 21.
Cabinet, Ironing machine. J. Barofsky. 132,143; Apr. 21.
Calendar. F. Steuwer. 132,117; Apr. 21.
Card or similar article, Greeting. E. D. Chase. 132,112; Apr. 21.
Casket, Burial. W. Zaiser. 132,107–11; Apr. 21.
Christmas tree, Artificial miniature. C. S. Price. 132,145; Apr. 21.
Coat. O. Hauptman. 132,152; Apr. 21.
Coat. R. Trofkin. 132,156; Apr. 21.
Container, Cigarette. A. J. Ackerman. 132,120; Apr. 21.
Cradle, Doll. R. L. Morton. 132,104; Apr. 21.
Dart, Suction cup. A. B. Mull. 132,131; Apr. 21.
Display device, Seed packet. P. E. Winslow. 132,106; Apr. 21.
Dress. M. Pennypacker. 132,153; Apr. 21.
Dress ensemble. I. Doctor. 132,147–8; Apr. 21.
Dress, Uniform. L. Mead. 132,150; Apr. 21.
Extractor, Fruit juice. W. P. Koch. 132,149; Apr. 21.
Fixture for passenger vehicle, Fluorescent lighting. E. B. Hallman. 132,144; Apr. 21.
Frame, Picture. W. J. Rothstein. 132,139; Apr. 21.
Game board. G. C. Dunlap. 132,124; Apr. 21.
Game board. A. M. Melton and C. D. Little. 132,130; Apr. 21.
Hair winding key and smoothing pin, Combined. H. C. Schlicker. 132,140; Apr. 21.
Handle for electric irons and the like. W. J. Russell. 132,154; Apr. 21.
Hanger, Soap. C. B. Anderson. 132,122–3; Apr. 21.
Holder and dispenser, Playing card. D. M. Holstein. 132,137; Apr. 21.
Key ring. I. Steinhardt. 132,116; Apr. 21.
Kite, Airplane. C. J. McCoy. 132,103; Apr. 21.
Knife, Surgical. E. A. Balla. 132,142; Apr. 21.
Lighter, Cigarette. A. J. Ackerman. 132,121; Apr. 21.
Muff. M. Baer. 132,161–4; Apr. 21.
Necklace or the like, Identification. G. L. Bumiller. 132,136; Apr. 21.
Numerals, Set of. L. O. Thompson. 132,118; Apr. 21.
Plaque or similar article. W. Olsen. 132,132; Apr. 21.
Plaque or similar article. W. Olsen and H. W. Russell. 132,133; Apr. 21.
Plaque, Service. R. P. Jones. 132,127; Apr. 21.
Plate and saucer, Combined. H. N. Ipsen. 132,100; Apr. 21.
Plate or similar article. J. W. Mackey. 132,101–2; Apr. 21.
Rack, oil saver, and waste can receptacle, Combined display. H. J. Smith. 132,151; Apr. 21.
Spectacles, Pair of. W. W. King. 132,114; Apr. 21.
Stand, Smoking. M. J. Fletcher. 132,125; Apr. 21.
Stand, Utility. I. W. Cady. 132,096; Apr. 21.
Stocking or similar article. J. L. Welch. 132,119; Apr. 21.
Stool or similar article, Counter. I. Peterson. 132,105; Apr. 21.
Suit. A. Gruber. 132,157–8; Apr. 21.
Suit. M. Linden. 132,159; Apr. 21.
Suit. A. Shotland. 132,160; Apr. 21.
Suit, Slack. H. Silverstein. 132,155; Apr. 21.
Table, Knockdown doll's. J. F. de Hymel. 132,099; Apr. 21.
Table, Utility. J. R. Corbett. 132,098; Apr. 21.
Textile fabric. F. Lind and F. A. Brooks. 132,115; Apr. 21.
Textile fabric. W. H. Rigney. 132,135; Apr. 21.
Whistle, Plural-note. I. E. Cohn. 132,097; Apr. 21.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 21ST DAY OF APRIL, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Addition agent and its use in the treatment of iron and steel. J. H. Critchett and W. Crafts. 2,280,286; Apr. 21.
Adhesive coating to newly formed mineral wool fibers, Applying. D. C. Drill. 2,280,388; Apr. 21.
Adhesiveness of asphalts. C. Mack. 2,280,653; Apr. 21.
Adjustable guide for refrigerator shelves. L. Bishop. 2,280,371; Apr. 21.
Adjustable screw propellers, Control of. O. Mader. 2,280,654; Apr. 21.
Adjuster for friction elements. E. F. Loweke. 2,280,154; Apr. 21.
Adjusting mechanism. C. W. Mott and H. P. Smith. 2,280,342; Apr. 21.
Aeronautical wheel. R. J. McLaughlin. 2,280,715; Apr. 21.
Air circulating system for driers. A. O. Hurxthal. 2,280,704; Apr. 21.
Air cleaner. G. E. Lundberg and A. R. Crawford. 2,280,417; Apr. 21.
Air conditioning. R. B. P. Crawford. 2,280,633; Apr. 21.
Air conditioning and lighting system for vehicles. M. P. Winther. 2,280,736; Apr. 21.
Air conditioning apparatus. C. M. Sanders, Jr. 2,280,425; Apr. 21.
Aircraft cockpit enclosure. D. E. Holloway and J. S. Smithson. 2,280,583; Apr. 21.
Aircraft, Method of and apparatus for guiding. I. R. Metcalf. 2,280,126; Apr. 21.
Airplane stall indicator. L. R. Kinsey and O. Bowman. 2,280,494; Apr. 21.
Alcohol resin, maleic anhydride-ethylene glycol-methallyl. E. L. Kropa and T. F. Bradley. 2,280,242; Apr. 21.
Alcohol resin, Polymerization of maleic acid-linseed oil fatty acids-ethylene glycol-allyl. D. G. Patterson. 2,280,256; Apr. 21.
Aldehydes, Stabilization of. R. O. Roblin, Jr. 2,280,311; Apr. 21.
Alloy: *See*—
Aluminum alloy.
Alloy. J. Trantin, Jr. 2,280,179; Apr. 21.
ααβ-trihalogen substituted butyraldehydes, Preparing. L. B. High. 2,280,290; Apr. 21.
Altimeter, Beat frequency. A. A. Varela. 2,280,109; Apr. 21.
Altimeter, Self-balancing capacity. F. H. Shepard, Jr. 2,280,725; Apr. 21.
Aluminum alloy. P. T. Stroup. 2,280,169–78; Apr. 21.
Amides of aliphatic polycarbothionic acids and their preparation. W. E. Hanford and P. L. Salzberg. 2,280,578; Apr. 21.
Amplifier, Wide band. D. E. Norgaard. 2,280,532; Apr. 21.
Amusement apparatus. J. F. Courtney. 2,280,643; Apr. 21.
Anchor, Pipe. G. E. Mullinix. 2,280,076; Apr. 21.
Antenna. W. Ilberg. 2,280,235; Apr. 21.
Antifriction bearing. M. A. Muller. 2,280,659; Apr. 21.
Apparatus and making a knitted fabric. D. P. Moore. 2,280,535; Apr. 21.
Apparatus employed in the hardening and tempering of armour-piercing projectiles and the like. W. Bridges and A. J. Chambers. 2,280,471; Apr. 21.
Apparatus for and method of frequency modulating. R. D. Kell. 2,280,707; Apr. 21.
Apparatus for and method of modulating waves. J. Evans. 2,280,693; Apr. 21.
Apparatus for applying extended surface elements to the tubes of heat exchange devices. M. Frisch. 2,280,068; Apr. 21.
Apparatus for decorating fabric. W. L. Webster and E. J. Rann. 2,280,136; Apr. 21.
Apparatus for detecting and/or preventing information. M. Green. 2,280,400; Apr. 21.
Apparatus for feeding cylindrical metal shells. C. E. Hahn. 2,280,522; Apr. 21.
Apparatus for finishing tubular article. G. W. Binns and F. J. Theler. 2,280,620; Apr. 21.
Apparatus for making hollow glass articles. H. R. Schutz. 2,280,268; Apr. 21.
Apparatus for making headers. W. M. Parker and R. A. and J. E. Gray. 2,280,255; Apr. 21.
Apparatus for propelling bowling balls. O. F. Whittle. 2,280,331; Apr. 21.
Apparatus for testing transmission systems. R. L. Kenngott. 2,280,492; Apr. 21.
Apparatus for the coating of wires, cables, textile threads, and strips. W. O. Larmuth. 2,280,415; Apr. 21.
Apparatus for the measurement of electrical reactance. H. Waymouth. 2,280,678; Apr. 21.
Apparatus for use in insulating structures. P. A. Voigt and J. E. Johansen. 2,280,460; Apr. 21.
Applicator, Wax. C. D. Stromgren. 2,280,556; Apr. 21.
Arc welding apparatus. V. J. Chapman. 2,280,628–9; Apr. 21.
Arc welding apparatus, Automatic. V. J. Chapman. 2,280,627; Apr. 21.
Articles, Manufacture of hollow. T. M. Halsall. 2,280,074; Apr. 21.
Articles with viscous coating, Production of. R. W. Polley. 2,280,259; Apr. 21.
Assembling machine, Tube and bulb. B. A. Schmitter. 2,280,665; Apr. 21.
Attachment for rolling colters. W. Stute. 2,280,107; Apr. 21.
Attachment for safe knobs. H. W. Srygley. 2,280,553; Apr. 21.
Automatic clutch. A. V. Bedford. 2,280,683; Apr. 21.
Automatic wear take-up for friction clutches. C. B. Spase and R. S. Root. 2,280,355; Apr. 21.
Auxiliary product of rectification, Method and apparatus for extracting an. W. L. De Baufre. 2,280,383; Apr. 21.
Axle. R. H. Bolster and G. C. Vanderberg. 2,280,741; Apr. 21.
Axle mounting. M. Olley and G. F. Gibson. 2,280,347; Apr. 21.
Back rest, Portable. C. C. Gulley. 2,280,231; Apr. 21.
Backlash eliminator for machine tools. M. E. Martelotti. 2,280,760; Apr. 21.
Backup valve. W. A. Baldwin. 2,280,615; Apr. 21.
Bag: *See*—
Nursing bag.
Balancing wheels. H. T. Kraft. 2,280,637; Apr. 21.
Ball, Making inflatable. M. Scudder. 2,280,314; Apr. 21.
Battery retaining and tensioning means for hand lanterns. W. M. Morley. 2,280,343; Apr. 21.
Battle light. W. F. Sheffield. 2,280,548; Apr. 21.
Beacon, Single line guiding. A. G. Kandolan. 2,280,514; Apr. 21.
Bearing: *See*—
Antifriction bearing.
Bearing. J. Dickson. 2,280,385; Apr. 21.
Beverages, Bottling. W. E. Baier. 2,280,365; Apr. 21.
Binoculars. L. H. Rezos. 2,280,354; Apr. 21.
Bit. P. Manteros. 2,280,295; Apr. 21.
Blade, Making hollow metal aircraft propeller. J. H. McKee. 2,280,337; Apr. 21.
Blade, Protected. J. Muros. 2,280,442; Apr. 21.
Blowing machine, Lap forming. L. P. Miller. 2,280,250; Apr. 21.
Bootjack device, Combination. M. S. Mirski. 2,280,251; Apr. 21.
Bottle stamper. R. C. Talbot. 2,280,730; Apr. 21.
Box: *See*—
Portable mine junction box.
Box and package, Tobacco. C. E. Sacre. 2,280,164; Apr. 21.
Box structure, Chick. N. F. Schaefer. 2,280,544; Apr. 21.
Brake: *See*—
Vehicle brake.
Brake. A. O. McCollum. 2,280,196; Apr. 21.
Brake arrangement. N. Flesch. 2,280,754; Apr. 21.
Bread slicing machine. M. Brustowsky. 2,280,059; Apr. 21.
Broiler. C. Rossini and T. D. Pieragostini. 2,280,131; Apr. 21.
Buck pressing machine, Multiple. H. D. Forse. 2,280,288; Apr. 21.
Bucket, Drag scraper. W. G. Davenport. 2,280,520; Apr. 21.
Bucket, Dredge. C. B. Andrews and G. R. Hanks. 2,280,141; Apr. 21.
Buffing wheel. R. A. Garling. 2,280,399; Apr. 21.
Building frame structure. F. L. Lang. 2,280,591; Apr. 21.
Bumper and license plate holder. A. S. Thompson. 2,280,558; Apr. 21.
Burner: *See*—
Wick type oil burner.
Burner apparatus. A. W. Ruff. 2,280,638; Apr. 21.

Cabinet: *See*—
Ironer cabinet. Refrigerator cabinet.
Cabinet. R. W. Rosendale. 2,280,542; Apr. 21.
Cable tension controller. J. Sturgess. 2,280,106; Apr. 21.
Calculating device. A. T. Harris. 2,280,485; Apr. 21.
Calendar holder, Plastic trim. M. E. Trollen. 2,280,676; Apr. 21.
Camera attachment for surgical instruments. F. C. Wappler. 2,280,561; Apr. 21.
Camera, Multiple lensed motion picture. E. L. Tornquist. 2,280,608; Apr. 21.
Can or container and the making of it, Sanitary preserving. H. Karl. 2,280,239; Apr. 21.
Canopy and cockpit cover, Movable. O. P. Sutton. 2,280,729; Apr. 21.
Cap: *See*—
Massage cap.
Car: *See*—
Railroad car.
Car construction. O. C. Duryea. 2,280,146; Apr. 21.
Carbon deleaving machine. J. E. Euth. 2,280,224; Apr. 21.
Carbon, Producing activated. R. Adler. 2,280,611; Apr. 21.
Carrier-signal receiver. N. P. Case. 2,280,187; Apr. 21.
Carrier-signal receiver. H. A. Wheeler and R. L. Freeman. 2,280,139; Apr. 21.
Carton structure. W. F. Luce. 2,280,155; Apr. 21.
Casing cutter. J. S. Page. 2,280,769; Apr. 21.
Catalyst, Cake-inhibiting. R. E. Burk and E. C. Hughes. 2,280,060; Apr. 21.
Catalysts, Manufacture of. E. R. Kanhofer. 2,280,649; Apr. 21.
Catalysts, Manufacture of. L. S. Kassel. 2,280,650; Apr. 21.
Catalytic converter. T. B. Prickett and E. S. Utterback. 2,280,081; Apr. 21.
Catalytic converter and heat exchange unit therefor. E. J. Houdry. 2,280,089; Apr. 21.
Catalytic cracking. C. L. Thomas. 2,280,673; Apr. 21.
Cathode-ray signal-reproducing unit. R. C. Hergenrother. 2,280,191; Apr. 21.
Ceiling structure, Light reflecting and distributing. E. Shockey. 2,280,640; Apr. 21.
Chain: *See*—
Cutter chain.
Chair: *See*—
Convertible rocking chair.
Chuck, Expansible. F. P. Bennett. 2,280,370; Apr. 21.
Chuck. R. F. Onsrud. 2,280,299; Apr. 21.
Cigarette box packing device. E. Zimniak. 2,280,335; Apr. 21.
Circuit: *See*—
Electronic circuit. Tube circuit.
Filter circuit.
Circuit apparatus, Railway track. H. G. Witmer. 2,280,464; Apr. 21.
Circuit, Automatic selectivity control. J. Weinberger. 2,280,563; Apr. 21.
Circuit breaker. H. H. Clayton. 2,280,281; Apr. 21.
Circuit breaker, Gas blast. H. Thommen. 2,280,321; Apr. 21.
Circuit controlling device. E. C. Matthews. 2,280,438; Apr. 21.
Circuit for carrier frequency communication system, Trunk position. H. Nits. 2,280,538; Apr. 21.
Circuits, Electrical coupling. C. D. Colchester and A. T. Starr. 2,280,282; Apr. 21.
Circuits, Electronic reactance. W. van B. Roberts. 2,280,606; Apr. 21.
Circuits, Tunable nondirective loop. R. A. Weagant. 2,280,562; Apr. 21.
Clamp. G. H. Ackerman. 2,280,361; Apr. 21.
Clamp. D. H. Fiskle. 2,280,403; Apr. 21.
Clamp for tubing flaring devices. J. M. Pettey. 2,280,078; Apr. 21.
Clamping device for machine tools, Work. O. F. Mastriforte. 2,280,156; Apr. 21.
Cleaner: *See*—
Air cleaner. Suction cleaner.
Motor cleaner.
Cleat, Adjustable fish pole. E. H. Kruse. 2,280,759; Apr. 21.
Clip: *See*—
Windshield wiper clip.
Clip structure. W. E. Schauer. 2,280,304; Apr. 21.
Clipper, Hair. J. Oster. 2,280,348; Apr. 21.
Closure and container. J. E. Sharp. 2,280,724; Apr. 21.
Clothesline holder. C. H. Johnson. 2,280,526; Apr. 21.
Clutch: *See*—
Automatic clutch. Heavy-duty clutch.
Friction clutch.
Coat. W. Graber. 2,280,120; Apr. 21.
Coating and manufacturing the same, Light sensitive photographic. R. S. Potter and R. S. Hagaman. 2,280,300; Apr. 21.
Coating sheet material. E. C. Homan. 2,280,433; Apr. 21.
Coatings and the like, Method and apparatus for electrically testing protective. L. J. Gorman and R. L. Morris. 2,280,119; Apr. 21.
Cockpit enclosure, Aircraft. F. P. Bassett. 2,280,368; Apr. 21.
Coin controlled mechanism for dispensing machines. W. A. Harris. 2,280,580; Apr. 21.
Column ejector, Four. G. E. Cook. 2,280,218; Apr. 21.
Combination tool. E. D. Williamson. 2,280,463; Apr. 21.
Communication system. R. H. Campbell. 2,280,280; Apr. 21.
Compass, Magnetic. E. A. Sperry, Jr. 2,280,726; Apr. 21.
Complex compounds of quinates and diuretics. R. S. Shelton. 2,280,639; Apr. 21.
Composite article, Making. F. S. Denneen and W. C. Dunn. 2,280,689; Apr. 21.
Compounds of the cyclopentanopoly-hydrophenanthrene series and producing the same. H. H. Inhoffen, W. Logemann, and H. Dannebaum. 2,280,236; Apr. 21.
Compounds of the diaryl series, Process of producing. W. Zerweck and K. Schütz. 2,280,504; Apr. 21.
Concrete insert. N. A. Predan. 2,280,080; Apr. 21.
Conducting and dispensing system for beer. H. J. Sandell. 2,280,266; Apr. 21.
Conductive coating for glass and method of application. T. W. H. Ward. 2,280,135; Apr. 21.
Conduit, Wood stave. C. L. Meyers. 2,280,339; Apr. 21.
Conduits, Producing reenforced. E. Muehleck. 2,280,252; Apr. 21.
Consistency regulator. H. G. Cram. 2,280,632; Apr. 21.
Container: *See*—
Pouring spout container.
Container. J. R. Otter. 2,280,601; Apr. 21.
Container and closure therefor. G. Glocker. 2,280,070; Apr. 21.
Container and holder for air guns. N. Beck and N. Goodman. 2,280,519; Apr. 21.
Container cleaning machine. A. I. Risser. 2,280,424; Apr. 21.
Container closure and dispenser for semi-liquid products. G. D. Rechten. 2,280,263; Apr. 21.
Container for fluids under pressure. A. Stephenson. 2,280,501; Apr. 21.
Container or capsule for highly compressed fluid media. J. A. Honegger. 2,280,088; Apr. 21.
Control device. H. E. Malone. 2,280,595; Apr. 21.
Control system. J. Bronaugh. 2,280,766; Apr. 21.
Conversion of single-phase alternating electric currents to polyphase currents. S. A. Stevens and A. H. B. Walker. 2,280,456; Apr. 21.
Convertible rocking chair. M. Thum. 2,280,732; Apr. 21.
Conveying apparatus. A. D. Sinden. 2,280,166; Apr. 21.
Copper alloy article, Rolled. C. E. Swartz and D. L. V. Schwartz. 2,280,103; Apr. 21.
Coupler or separable fastener. A. A. Rue. 2,280,162; Apr. 21.
Cover: *See*—
Canopy and cockpit cover.
Curb or wall, Structural. H. B. Hawes. 2,280,647; Apr. 21.
Curtain, Shower. N. Gaines. 2,280,697; Apr. 21.
Cutter: *See*—
Casing cutter.
Cutter. E. C. Neal. 2,280,159; Apr. 21.
Cutter chain. E. P. Stenger. 2,280,502; Apr. 21.
Cyanoethylation of carbocyclic compound. H. A. Bruson. 2,280,058; Apr. 21.
Cycle hitch. H. B. Tyler. 2,280,734; Apr. 21.
Cyclic sulphonic acid amide compound. F. Mietzsch and J. Klarer. 2,280,497; Apr. 21.
Cylinder, Reinforced. P. P. Newcomb. 2,280,660; Apr. 21.
Dart. A. B. Mull. 2,280,441; Apr. 21.
Deflecting circuits. W. A. Tolson. 2,280,733; Apr. 21.
Dental operating lamp. E. H. Greppin. 2,280,402; Apr. 21.
Detector, Diode phase. R. E. Schock. 2,280,545; Apr. 21.
Developing apparatus. L. D. Andrews. 2,280,113; Apr. 21.
Device for raising sunken vessels. W. W. Scofield. 2,280,547; Apr. 21.
Device for truing up shafts. H. Goestrom. 2,280,646; Apr. 21.
Direction signal switch. P. Weien. 2,280,110; Apr. 21.
Directional antenna. C. N. Bace. 2,280,738; Apr. 21.
Disconnecting and reverse mechanism. J. A. Clarke, Jr. 2,280,377; Apr. 21.
Dispensing device. J. F. Murray and U. S. Fisher. 2,280,443; Apr. 21.
Dissolving apparatus. A. F. Black. 2,280,466; Apr. 21.
Distillation method and apparatus. R. V. Kleinschmidt. 2,280,093; Apr. 21.
Doll eye. S. Marcus. 2,280,244; Apr. 21.
Doll eye assembly, Manufacture of. S. Marcus. 2,280,245; Apr. 21.
Door: *See*—
Refrigerator car door. Vehicle operated door.
Door clamping device. C. L. Hardwick. 2,280,122; Apr. 21.
Door control for electric pull socket. A. S. Kinney. 2,280,493; Apr. 21.
Door operator. R. M. Dilworth. 2,280,387; Apr. 21.
Doorstop. N. P. Madsen. 2,280,655; Apr. 21.
Door structure for mixers. G. Jaeger and C. I. Bohmer. 2,280,513; Apr. 21.
Doughnut machine. S. A. Gardner. 2,280,148; Apr. 21.
Draft gear. R. B. Cottrell. 2,280,428; Apr. 21.

Draghead for dredging apparatus. J. A. Dorst. 2,280,066; Apr. 21.
Drift correction modulated beam. C. J. Crane and R. K. Stout. 2,280,117; Apr. 21.
Drilling machine. C. E. Broders and V. Gauvreau. 2,280,115; Apr. 21.
Dyestuffs of the methine series. W. Muller and C. Berres. 2,280,253; Apr. 21.
Dyestuffs, Phthalocyanine. B. Bienert and S. Gassner. 2,280,507; Apr. 21.
Earth moving vehicle. L. D. McLean. 2,280,439; Apr. 21.
Egg products, Preparation of. N. C. Fischer. 2,280,147; Apr. 21.
Electric circuit breaker. R. J. Baskerville. 2,280,616; Apr. 21.
Electric discharge vessels. R. Scharfnagel. 2,280,454; Apr. 21.
Electric heater. W. W. Barton. 2,280,367; Apr. 21.
Electric light cord extension. R. C. Wittman. 2,280,680; Apr. 21.
Electric switch. A. D. Cammisano. 2,280,215; Apr. 21.
Electric valve converting system. D. B. Clark. 2,280,749; Apr. 21.
Electrical conductor, Telescoping high frequency. A. Streib. 2,280,728; Apr. 21.
Electrical wave analysis. S. Hansen. 2,280,524; Apr. 21.
Electro-optical transmission system and apparatus. A. G. Cooley and G. V. V. Dillenback, Jr. 2,280,688; Apr. 21.
Electrode and welding rod, Coated. R. Dümpelmann and P. Ehlers. 2,280,223; Apr. 21.
Electron beam discharge device. A. M. Glover. 2,280,228; Apr. 21.
Electron multiplier. H. Pietzsch. 2,280,449; Apr. 21.
Electron multiplier system. F. W. Reynolds. 2,280,303; Apr. 21.
Electronic circuit. H. G. Cisin. 2,280,630; Apr. 21.
Electronic repeater. L. W. Franklin. 2,280,308; Apr. 21.
Electronic switching apparatus. A. P. King. 2,280,528; Apr. 21.
Elevating device for cots and the like. H. W. Neunherz. 2,280,444; Apr. 21.
Engine: *See*—
Gas turbine thermic engine. Internal combustion engine.
Engine. I. Sklenár. 2,280,669; Apr. 21.
Engine balancing. J. Dickson. 2,280,384; Apr. 21.
Engine cylinder valve and fuel injector, Combined. J. Dickson. 2,280,386; Apr. 21.
Excavator. F. L. White. 2,280,329; Apr. 21.
Extension lamp, Portable. J. W. Hauff. 2,280,523; Apr. 21.
Extractor: *See*—
Juice extractor.
Eyes, Testing. J. F. Neumueller and J. Y. Taylor. 2,280,297; Apr. 21.
Fabric: *See*—
Knitted fabric.
Face, Changing the expression of. I. Gluck. 2,280,576; Apr. 21.
Facing sheet for sound absorbing material. C. L. Coffey. 2,280,631; Apr. 21.
Fan. M. W. Humphreys. 2,280,090; Apr. 21.
Fastener: *See*—
Coupler separable fastener.
Fastener. D. A. Brennan. 2,280,184; Apr. 21.
Feeding device. V. E. McCoy. 2,280,656; Apr. 21.
Fertilizer and process for making the same. G. H. Riddle. 2,280,451; Apr. 21.
Fertilizer, Process for manufacturing. H. C. Reinders-Folmer. 2,280,129–30; Apr. 21.
Fiber string material, Drying. P. D. Plambeck. 2,280,602; Apr. 21.
Filament transporting method and apparatus. J. Flaws, Jr. 2,280,573; Apr. 21.
Film and reproducing apparatus for its use, Endless bands of. J. Eggert and H. F. Nissen. 2,280,067; Apr. 21.
Filler neck for locomotive lubrication systems. E. B. Norman, G. A. Pettit, and L. F. Serrick. 2,280,533; Apr. 21.
Filling machine. H. D. Ayars. 2,280,614; Apr. 21.
Film live-filling system. M. L. Emerson. 2,280,750; Apr. 21.
Filter: *See*—
Oil filter.
Filter circuit, Piezoelectrical crystal. W. van B. Roberts. 2,280,605; Apr. 21.
Filtering circuits. J. T. O'Leary. 2,280,661; Apr. 21.
Fishing bob, Illuminated. H. M. Sutcliffe. 2,280,457; Apr. 21.
Fish lure. R. H. Ounsworth. 2,280,197; Apr. 21.
Fishing tool. A. Harcos. 2,280,422; Apr. 21.
Flame machining. H. G. Hughey and W. G. Sylvester. 2,280,151; Apr. 21.
Flash lamp. G. H. Meridith. 2,280,598; Apr. 21.
Flash, Method and means for removing. P. C. Tracy. 2,280,204; Apr. 21.
Flaw detecting device and measuring instrument. F. A. Firestone. 2,280,226; Apr. 21.
Flooring, Laminated. G. C. Hamilton. 2,280,071; Apr. 21.
Flow and pressure measuring device. O. B. Vetter. 2,280,325; Apr. 21.
Flow control valve. N. C. Price. 2,280,128; Apr. 21.
Flow meter, Power set. T. R. Harrison. 2,280,233; Apr. 21.
Fluid expansible device. C. W. Mott. 2,280,341; Apr. 21.
Fluid motor. F. W. Knott and B. Garlius. 2,280,588; Apr. 21.
Fluid pressure apparatus. F. D. Singleton. 2,280,100; Apr. 21.
Fluid pressure producing device. E. F. Loweke. 2,280,153; Apr. 21.
Fluid pump. A. P. Sullivan. 2,280,271–2; Apr. 21.
Fly protector. M. L. Sherlock. 2,280,668; Apr. 21.
Foldable leg table. W. B. Kiell. 2,280,586; Apr. 21.
Folding table. E. F. Knowles. 2,280,412; Apr. 21.
Forced feed cutter and spreader for combines. O. P. and O. E. Wagner. 2,280,677; Apr. 21.
Frame for spectacles. W. B. Schofield. 2,280,666; Apr. 21.
Frequency modulation receiver. M. G. Crosby. 2,280,569; Apr. 21.
Frequency modulation receiver tuning indicator. W. van B. Roberts. 2,280,607; Apr. 21.
Friction clutch. C. B. Spase and R. S. Root. 2,280,356; Apr. 21.
Frosted lamp. F. Kallus. 2,280,489; Apr. 21.
Fuel control mechanical breaker system and indicator. N. M. McCullough. 2,280,246; Apr. 21.
Fuel distributing, speed governing and starting device for Diesel engines, Combination. P. Das. 2,280,222; Apr. 21.
Fuel for internal combustion engines. H. C. Paulsen and J. O. Collins. 2,280,716; Apr. 21.
Fuel storing and feeding apparatus, Pulverized. A. J. Grindle. 2,280,394; Apr. 21.
Fuel, Super-Diesel. G. H. Cloud. 2,280,217; Apr. 21.
Fuel supply mechanism. C. F. Stehle and H. Glodde. 2,280,317; Apr. 21.
Fuel supply means for power plants. J. H. Wilson. 2,280,140; Apr. 21.
Furnace. J. Dionisotti. 2,280,571; Apr. 21.
Furnace and melting method, Electric. G. Slayter, F. W. Atkinson, E. Fletcher, and H. V. Smith. 2,280,101; Apr. 21.
Fuse, Cartridge. M. B. Wood. 2,280,565; Apr. 21.
Gain control, Automatic. T. B. D. Terroni. 2,280,672; Apr. 21.
Game or toy of skin. F. Broomfield. 2,280,623; Apr. 21.
Garment. A. Cohen. 2,280,479; Apr. 21.
Garment. F. Z. Walsh. 2,280,360; Apr. 21.
Garment hanger. C. P. Knudson. 2,280,435; Apr. 21.
Garments, Method of ironing. H. M. Rumbaugh. 2,280,720; Apr. 21.
Gas burner and control unit therefor. J. W. Ball. 2,280,739; Apr. 21.
Gas detection. J. T. Hayward. 2,280,086; Apr. 21.
Gas in drilling fluids, Detection of. J. T. Hayward. 2,280,075; Apr. 21.
Gas turbine thermic engine. R. Anxionnaz and R. Imbert. 2,280,765; Apr. 21.
Gaseous discharge device, Electric. R. Besson. 2,280,618; Apr. 21.
Gate: *See*—
Mold gate.
Gear: *See*—
Draft gear.
Generating electric drive and control system. S. H. Cowin. 2,280,378; Apr. 21.
Generator. G. F. Zellhoefer. 2,280,210; Apr. 21.
Glass working apparatus and method. L. D. Soubier. 2,280,167; Apr. 21.
Glazing construction. A. J. Daniels. 2,280,142; Apr. 21.
Glove. M. Blanc. 2,280,467; Apr. 21.
Governor, Cable tension. J. Sturgess. 2,280,105; Apr. 21.
Grinder, Cinder. L. Lafreniere. 2,280,423; Apr. 21.
Grounding device for vehicles. D. C. Ware. 2,280,327; Apr. 21.
Gyroscopes, Automatic means for caging. B. G. Carlson. 2,280,116; Apr. 21.
Handle: *See*—
Racket handle. Reversible handle.
Hanger: *See*—
Garment hanger. Tobacco leaf hanger.
Harmonic slide rule. D. A. Maffei. 2,280,593; Apr. 21.
Harvester. R. W. and C. R. Rucker. 2,280,453; Apr. 21.
Head for use on preformed strand and wire rope machines. F. B. Downing, Sr. 2,280,188; Apr. 21.
Heater: *See*—
Electric heater.
Heater control. J. B. Harder and F. I. Steele. 2,280,407; Apr. 21.
Heating device for tobacco curing barns. J. A. Tharrington. 2,280,458; Apr. 21.
Heat treatment. H. E. Somes. 2,280,102; Apr. 21.
Heating apparatus, Inductive. F. S. Denneen and W. C. Dunn. 2,280,064; Apr. 21.
Heavy-duty clutch. C. B. Spase. 2,280,357; Apr. 21.
High tension apparatus. R. R. Machlett and J. W. Skehan. 2,280,711; Apr. 21.
Hinge, Seat. H. P. Nordmark. 2,280,298; Apr. 21.
Hogshead. R. S. McConnell. 2,280,761; Apr. 21.
Hoist, Human. C. R. Gentry. 2,280,396; Apr. 21.

Holder: *See*—
Bumper and license plate holder. Clothesline holder.
Calendar holder. Toothbrush holder.
Holder and extinguisher, Cigarette. J. T. Saunders. 2,280,543; Apr. 21.
Holder and tension device, Brush. H. Weissinger. 2,280,735; Apr. 21.
Holder for rubbing tools, Universal grip. D. Ferragano. 2,280,767; Apr. 21.
Hollow valve structure. C. Voorhies. 2,280,758; Apr. 21.
Honing machine and method. R. H. Cramer. 2,280,379; Apr. 21.
Housing and support for engine camshafts. M. Essl. 2,280,753; Apr. 21.
House, Portable. J. A. Connelly. 2,280,687; Apr. 21.
Humidity measuring apparatus. E. A. Keeler. 2,280,241; Apr. 21.
Hydrocarbons, Manufacture of liquid. M. Pier. 2,280,258; Apr. 21.
Ice cream freezer. M. W. Huber. 2,280,434; Apr. 21.
Ice machine. W. H. Taylor. 2,280,310; Apr. 21.
Ignition system. L. H. Scott. 2,280,426; Apr. 21.
Implement, Agricultural. E. Carlson. 2,280,372; Apr. 21.
Implement, Universal die. J. A. and J. F. Hagerstrom. 2,280,701; Apr. 21.
Imprinting apparatus. A. W. Metzner. 2,280,095; Apr. 21.
Indicator: *See*—
Airplane stall indicator. Pressure indicator.
Frequency modulation receiver tuning indicator.
Internal combustion engine. R. V. Ferguson. 2,280,645; Apr. 21.
Internal combustion engine. M. C. Pletcher and M. A. Hochstetler. 2,280,079; Apr. 21.
Internal combustion engine. M. Mallory. 2,280,712; Apr. 21.
Internal combustion engine, Compound expansion. C. W. P. Heylandt. 2,280,487; Apr. 21.
Internal combustion engine, Rotary. O. O. Bowers. 2,280,742; Apr. 21.
Instrument, Food service. N. Andros. 2,280,612; Apr. 21.
Instruments, Measuring. R. Ullman. 2,280,459; Apr. 21.
Intermittent switch. E. E. Osswald. 2,280,539; Apr. 21.
Iron and steel, Method and agent for treating. J. H. Critchett and W. Crafts. 2,280,063; Apr. 21.
Iron and steel, Method and agent for treating. J. H. Critchett and W. Crafts. 2,280,284; Apr. 21.
Iron and steel, Method and agent for treating moltan. J. H. Critchett and W. Crafts. 2,280,285; Apr. 21.
Ironer cabinet. H. M. Rumbaugh. 2,280,718; Apr. 21.
Ironer. H. M. Rumbaugh. 2,280,719; Apr. 21.
Isomerization of normal paraffins. V. B. Calhoun. 2,280,748; Apr. 21.
Isomerization process. C. S. Lynch. 2,280,710; Apr. 21.
Jet compressor for power plants. G. W. Pearce, Jr. 2,280,447; Apr. 21.
Joint: *See*—
Road joint. Structural joint.
Joint construction. W. A. Flumerfelt. 2,280,634; Apr. 21.
Joint for nonmetallic pipe and gaskets therefor. C. E. Bennett. 2,280,183; Apr. 21.
Juice extractor. E. Buerk. 2,280,214; Apr. 21.
Knitted fabric. D. P. Moore. 2,280,536; Apr. 21.
Knitting machine, Circular. L. A. Goyette. 2,280,698; Apr. 21.
Knitting machines, Fabric drawing-off mechanism. T. C. Bromley and A. Shortland. 2,280,472; Apr. 21.
Laminating and adhesive. F. R. Grant and C. E. Wright. 2,280,699; Apr. 21.
Laminated product. Forming. P. E. Meyer. 2,280,249; Apr. 21.
Lamp: *See*—
Dental operating lamp. Flash lamp.
Extension lamp. Frosted lamp.
Lasting machine. J. C. Jorgensen. 2,280,152; Apr. 21.
Lasting machine, Heel-end. E. Quinn and E. G. Hathaway. 2,280,199; Apr. 21.
Latch. E. N. Jacobi. 2,280,648; Apr. 21.
Latch. S. Segal. 2,280,084; Apr. 21.
Latch needle for circular knitting machines. B. M. Nebel. 2,280,344; Apr. 21.
Lathe, Crankshaft broaching. W. L. Groene. 2,280,230; Apr. 21.
Lathe, Multiple spindle broaching. W. F. Groene and H. J. Siekmann. 2,280,229; Apr. 21.
Latex rubber casting. H. T. Kraft. 2,280,636; Apr. 21.
Laxative. A. Regensburger. 2,280,265; Apr. 21.
Leather, Treatment of. R. M. Koppenhoefer and T. G. Roehner. 2,280,310; Apr. 21.
Lens, Ophthalmic. E. D. Tillyer. 2,280,322; Apr. 21.
Lever, Emergency foot brake. D. B. Dickerson. 2,280,644; Apr. 21.
Light: *See*—
Battle light.
Light effects, Producing. C. Bronner, Sr. 2,280,684; Apr. 21.
Lighting fixture. M. B. Beck. 2,280,505; Apr. 21.
Lighting fixture. C. T. Masterson and W. M. Potter. 2,280,534; Apr. 21.
Line maintenance tool. D. C. Hubbard. 2,280,192; Apr. 21.
Light projector. F. H. Gazin. 2,280,406; Apr. 21.
Light-screening devices for lamps. V. Hartley. 2,280,581; Apr. 21.
Liner for well casings, Adjustable. J. S. Beck. 2,280,054; Apr. 21.
Link for antiskid chains, Reinforced. J. R. Reyburn. 2,280,717; Apr. 21.
Liquid dispensing apparatus. W. H. De Lancey. 2,280,287; Apr. 21.
Loader for power bowling machines, Automatic. O. F. Whittle. 2,280,332; Apr. 21.
Lock: *See*—
Nut lock.
Locking device for brake bleed valve. J. E. Bryant. 2,280,752; Apr. 21.
Locking device for throttle valves. R. H. Smickle. 2,280,549; Apr. 21.
Loom with stationary weft supplies. C. Clutson. 2,280,478; Apr. 21.
Lower margin indicator for typewriters. F. F. Drabick. 2,280,145; Apr. 21.
Lubricant. R. Reuter. 2,280,450; Apr. 21.
Lubricating oil, Modified. D. R. Merrill. 2,280,338; Apr. 21.
Lubricating system. A. C. Peterson. 2,280,198; Apr. 21.
Lubricating system for compressors or the like. B. W. Mantle. 2,280,296; Apr. 21.
Luminiare. T. W. Rolph and K. Franck. 2,280,160; Apr. 21.
Machine for applying folded strip. A. J. and A. J. Germain. 2,280,069; Apr. 21.
Machine for binding carpets, Blind stitch sewing. L. G. Bowman. 2,280,468; Apr. 21.
Machine for chopping nut meats. R. Bernhardt. 2,280,211; Apr. 21.
Machine for cleaning and treating floors. I. J. Owen. 2,280,077; Apr. 21.
Machine for and method of forming folded toilet seat covers. C. E. Kirch, C. G. MacLelland, and F. M. Becker. 2,280,092; Apr. 21.
Machine for cutting soap. J. D. Chaney. 2,280,373; Apr. 21.
Machine for playing tennis and the like. L. F. Clark. 2,280,375; Apr. 21.
Machine for turning and binding the edges of leather. L. J. Neecker. 2,280,346; Apr. 21.
Machine tool. G. K. McKee. 2,280,596; Apr. 21.
Magnesia and electrical insulating material derived therefrom, Treating. R. R. Ridgway and A. H. Ballard. 2,280,516; Apr. 21.
Magnesia and making the same, Electrical insulation of modified. R. R. Ridgway and A. H. Ballard. 2,280,517; Apr. 21.
Magnet holding device, Releasable permanent. G. N. Levesque. 2,280,437; Apr. 21.
Manifold assembly. J. R. Keeley. 2,280,409; Apr. 21.
Mantle, Radiant. W. G. Cartter and F. E. Wood. 2,280,061; Apr. 21.
Marble cementitious floors, Production of. A. L. Williams. 2,280,333; Apr. 21.
Marker for football, Down. R. C. Baker. 2,280,682; Apr. 21.
Mass capable of swelling and thickening agents. R. Muller and H. Lee. 2,280,600; Apr. 21.
Massage cap. R. F. Buckley. 2,280,624; Apr. 21.
Material and producing the same, Electrical insulating. R. R. Ridway and A. H. Ballard. 2,280,515; Apr. 21.
Material, Method and apparatus for impinging powdered. B. C. Kathe. 2,280,240; Apr. 21.
Materials, Impregnating fibrous. W. B. Campbell, O. and E. E. Maass. 2,280,216; Apr. 21.
Meat cutting machine. V. G. Biro. 2,280,621; Apr. 21.
Mechanism, Driving. B. Stechbart. 2,280,727; Apr. 21.
Metals, Granulating. R. Hart. 2,280,703; Apr. 21.
Metals, Heating of. F. C. Hasse and A. A. Bernard. 2,280,150; Apr. 21.
Metals, Purifying. T. R. Jones. 2,280,706; Apr. 21.
Metals, Treatment of. W. Bridges. 2,280,470; Apr. 21.
Meter: *See*—
Flow meter.
Method and apparatus for dehydrating liquid products. J. M. Hall. 2,280,073; Apr. 21.
Method and apparatus for effecting particle size reduction. C. E. Berry. 2,280,619; Apr. 21.
Mill and separator, Combined. S. B. Kanowitz. 2,280,238; Apr. 21.
Milling machine. F. Koch. 2,280,436; Apr. 21.
Mixing device. R. W. Scott and A. O. McCollum. 2,280,667; Apr. 21.
Modeling instrument. A. E. Hendy. 2,280,486; Apr. 21.
Moisture determining apparatus. R. T. Bell. 2,280,617; Apr. 21.
Mold for producing concrete blocks. W. T. Ishman. 2,280,635; Apr. 21.
Mold gate. H. E. McWane. 2,280,597; Apr. 21.
Motion checking or snubbing device. L. C. Frey. 2,280,404; Apr. 21.

Motion picture camera, Reversible. J. R. Alburger. 2,280,737; Apr. 21.
Motor: *See*—
Fluid motor.
Motor cleaner. G. Esko. 2,280,510; Apr. 21.
Motorized mechanism. R. S. Craig. 2,280,062; Apr. 21.
Mounting: *See*—
Axle mounting.
Mower. R. S. Kinkead. 2,280,124; Apr. 21.
Multicircuit switch. C. W. Dann. 2,280,143; Apr. 21.
Noise maker, Manufacturing a. V. T. Hoeflich. 2,280,582; Apr. 21.
Nursing bag. H. R. Keltner. 2,280,410; Apr. 21.
Nut lock. A. M. Stoner. 2,280,270; Apr. 21.
Oil, Compounded. C. E. Wilson. 2,280,419; Apr. 21.
Oil cup. R. H. Whiteley. 2,280,462; Apr. 21.
Oil filter. H. H. Cox. 2,280,480; Apr. 21.
Oil filter. J. F. Guggolz. 2,280,577; Apr. 21.
Oil, Lubricating. G. D. Byrkit, W. L. Steiner, and B. H. Lincoln. 2,280,474–5; Apr. 21.
Oils, Manufacture of drying. R. Priester. 2,280,082; Apr. 21.
Oils, Treating hydrocarbon. A. R. Nevitt. 2,280,445; Apr. 21.
Olefines, Hydrohalogenation of. H. I. Waterman and J. J. Leendertse. 2,280,207; Apr. 21.
Orchards for frost and plant pests, Method and apparatus for treating. L. G. Schultz. 2,280,267; Apr. 21.
Organic arsenic compound and obtaining the same. A. B. Scott and J. A. Sultzaberger. 2,280,132; Apr. 21.
Ornamenting machine and method, Surface. N. G. Koppinger. 2,280,414; Apr. 21.
Ornamenting machine, Surface. N. G. Koppinger. 2,280,413; Apr. 21.
Oscillograph apparatus. D. E. Norgaard. 2,280,531; Apr. 21.
Oscillator drift compensation devices. C. N. Kimball. 2,280,527; Apr. 21.
Oxide, Preparing cuprous. W. B. Stoddard, Jr. 2,280,168; Apr. 21.
Package. J. H. Vineberg. 2,280,138; Apr. 21.
Package, Merchandise. D. Traum. 2,280,503; Apr. 21.
Paper, Manufacturing. R. A. Diehm. 2,280,307; Apr. 21.
Pattern reproducing machine. G. F. Ryan. 2,280,163; Apr. 21.
Petroleum distillates, Refining of. B. G. Gillespie. 2,280,227; Apr. 21.
Phonograph. B. R. Carson. 2,280,685; Apr. 21.
Phonograph. G. H. Fritzinger. 2,280,575; Apr. 21.
Phonographic apparatus. H. J. Hasbrouck, Jr. 2,280,763; Apr. 21.
Photographic pictures, Developing. A. Schilling, W. Schneider, and G. Wilmanns. 2,280,721; Apr. 21.
Photography, Color. W. Schneider and A. Frölich. 2,280,722; Apr. 21.
Phototypographic type body. G. L. Morrison. 2,280,096; Apr. 21.
Phosphatidic composition. B. H. Thurman. 2,280,427; Apr. 21.
Phthalocyanines, Substituted. N. H. Haddock. 2,280,072; Apr. 21.
Pie making machine. O. H. Tracy. 2,280,324; Apr. 21.
Pinion assembly for hand brakes. E. E. Van Cleave. 2,280,180; Apr. 21.
Pipes, Manufacture of meerschaum. E. Lichtblau. 2,280,709; Apr. 21.
Pipe support. D. C. Palm. 2,280,349; Apr. 21.
Piston mechanism. R. Chilton. 2,280,375; Apr. 21.
Piston ring compressor. C. D. Stromgren. 2,280,557; Apr. 21.
Piston ring device. T. A. Bowers. 2,280,743; Apr. 21.
Piston rings, Method and apparatus for manufacturing. H. E. Somes. 2,280,552; Apr. 21.
Piston ring, Slotted. T. A. Bowers. 2,280,745; Apr. 21.
Plastic materials, Transparent. B. Andersen. 2,280,055; Apr. 21.
Plow. R. J. Altgelt. 2,280,681; Apr. 21.
Pneumatic control. S. W. Nickells. 2,280,345; Apr. 21.
Pneumatic pump. G. S. Knox. 2,280,589; Apr. 21.
Pointer for dials. N. C. Hall. 2,280,700; Apr. 21.
Polishing and finishing tool. J. B. Phipps. 2,280,762; Apr. 21.
Polychromatic pad for use in color photography. F. G. Yanes. 2,280,112; Apr. 21.
Portable mine junction box. E. Workman. 2,280,334; Apr. 21.
Post for cycles and the like, Steering. E. F. Pawsat. 2,280,662; Apr. 21.
Potato chips or the like, Mechanism for cutting. D. A. Barnes. 2,280,053; Apr. 21.
Power circuit for electrical precipitators. H. J. White. 2,280,330; Apr. 21.
Power operated hand tool. J. J. Gerst. 2,280,149; Apr. 21.
Power transmission. K. R. Herman and F. T. Harrington. 2,280,392; Apr. 21.
Power transmitting mechanism for rail cars, motor vehicles, and the like. W. D. Morton and W. E. Haupt. 2,280,127; Apr. 21.
Power transmitting system. L. F. Jaseph. 2,280,291; Apr. 21.
Poultry roost. H. Forsyth. 2,280,511; Apr. 21.
Pouring spout container. A. G. Hopkins. 2,280,123; Apr. 21.
Preheating chamber for decorating lehrs. H. R. Black. 2,280,306; Apr. 21.
Press. W. Klocke. 2,280,587; Apr. 21.
Press bed drive. S. A. Huffman. 2,280,091; Apr. 21.
Press roll. R. J. Wilkie. 2,280,208; Apr. 21.
Pressure device, Hydraulic oil fuel. R. C. Ainsworth and M. B. Schultz. 2,280,362; Apr. 21.
Pressure foot, Quick action. H. J. Le Vesconte. 2,280,193; Apr. 21.
Pressure indicator. W. J. Kiene. 2,280,411; Apr. 21.
Pressure regulator. P. W. Ensign. 2,280,390; Apr. 21.
Pressure switch. H. Purat. 2,280,262; Apr. 21.
Prime movers, Mechanism for synchronizing multiple. H. A. Tonimin, Jr. 2,280,203; Apr. 21.
Printing device. T. C. Weltmer and C. J. Regan. 2,280,328; Apr. 21.
Production of titanium solutions, Process for the. I. J. Krchma. 2,280,590; Apr. 21.
Propeller control, Feathering. E. Martin. 2,280,714; Apr. 21.
Propeller, Controllable pitch. R. Chilton. 2,280,374; Apr. 21.
Propeller, Feathering. E. Martin, J. E. Anderson, and M. C. Beebe. 2,280,713; Apr. 21.
Protector: *See*—
Fly protector.
Protector for beer can openers. H. J. Maihack. 2,280,336; Apr. 21.
Protein solution, paint, and method. E. B. Schuler. 2,280,546; Apr. 21.
Preparation of ferro-chromium in blast furnaces. P. H. Royster. 2,280,452; Apr. 21.
Pressure pumping system, High-low. F. A. Carpenter. 2,280,626; Apr. 21.
Pressure regulator for injection pumps, Liquid. S. Meiswinkel. 2,280,496; Apr. 21.
Pressure-release mechanism. T. I. Stephenson, Jr. 2,280,764; Apr. 21.
Pump: *See*—
Fluid pump. Urine pump.
Pneumatic pump. Well pump.
Regulating pump.
Pump. V. G. Klein and J. Kludt. 2,280,708; Apr. 21.
Pumping apparatus. A. Hollander and V. A. Hoover. 2,280,087; Apr. 21.
Puzzle and puzzle game. M. I. Williamson. 2,280,609; Apr. 21.
Rack: *See*—
Shoe rack. Tie rack.
Racket handle. T. A. Davis. 2,280,382; Apr. 21.
Radiator and radiator shutter assembly. W. C. Agerell and A. C. Mueller. 2,280,642; Apr. 21.
Radio receiver. D. J. Barrett, Jr., and L. G. Pacent. 2,280,465; Apr. 21.
Radio receiver. D. E. Foster. 2,280,521; Apr. 21.
Radio disturbances, Elimination of atmospheric. S. Whisk. 2,280,461; Apr. 21.
Railroad car. G. A. Steuber. 2,280,318; Apr. 21.
Railway signaling, Absolute permissive block system of. K. R. Kemmerer. 2,280,491; Apr. 21.
Rake, Classifying. D. M. Wright. 2,280,209; Apr. 21.
Reaction control, Chemical. C. L. Thomas. 2,280,674; Apr. 21.
Reciprocal motion device. V. O. Pounds. 2,280,261; Apr. 21.
Recorder. R. G. Arey. 2,280,613; Apr. 21.
Recorder, Drying time. P. N. Gardner. 2,280,483; Apr. 21.
Refining process. M. C. K. Jones. 2,280,237; Apr. 21.
Refrigerating apparatus. R. E. Tobey. 2,280,202; Apr. 21.
Refrigeration. S. W. E. Anderson. 2,280,051; Apr. 21.
Refrigeration. R. S. Taylor. 2,280,273; Apr. 21.
Refrigeration apparatus. H. Hemming and C. W. Peterson. 2,280,512; Apr. 21.
Refrigeration apparatus. C. Sundbach. 2,280,133; Apr. 21.
Refrigerator. A. E. Nave. 2,280,254; Apr. 21.
Refrigerator cabinet. C. Steenstrup. 2,280,554; Apr. 21.
Refrigerator car door. S. B. Haseltine. 2,280,232; Apr. 21.
Register reset. G. W. Rosenberger. 2,280,161; Apr. 21.
Regulating pump. S. Meiswinkel. 2,280,248; Apr. 21.
Regulating the growth of plants. A. J. Saukaitis. 2,280,756; Apr. 21.
Regulator: *See*—
Consistency regulator. Size regulator.
Pressure regulator.
Repeater control. J. G. Kreer, Jr. 2,280,293; Apr. 21.
Resistor device and making the same. G. L. Pearson. 2,280,257; Apr. 21.
Resuscitator. F. A. D. Alexander and C. E. Martin. 2,280,050; Apr. 21.
Retractable undercarriage for aircraft and locking means therefor. D. G. Bridges. 2,280,185; Apr. 21.
Reversible explosive. J. Barab. 2,280,366; Apr. 21.
Reversible handle. C. Sebastian. 2,280,165; Apr. 21.
Ring: *See*—
Piston ring. Scavenger piston ring.
Road joint. H. P. Seuberling. 2,280,455; Apr. 21.
Road scraper. H. C. French. 2,280,696; Apr. 21.

Rod hanger and rotator, Polish. R. C. Johnston. 2,280,408; Apr. 21.
Roller, Inking. T. J. Kauffeld. 2,280,125; Apr. 21.
Roof, Breather. B. B. McCandliss. 2,280,657; Apr. 21.
Roof, Breather. L. A. Wilkin and H. Smith. 2,280,679; Apr. 21.
Roofing surface. J. H. Hardy. 2,280,579; Apr. 21.
Roofs, Balancing weight for expansion. P. S. Graver. 2,280,768; Apr. 21.
Rotary conveying mechanism for conveying the products of printing machines. C. G. Quick and W. A. Whitehead. 2,280,663; Apr. 21.
Rotproofing of textiles, paper, and other fibrous materials. W. J. Carter. 2,280,477; Apr. 21.
Routing machine. A. L. Cushman. 2,280,481; Apr. 21.
Rubber, Reclaiming of. W. Gumlich. 2,280,484; Apr. 21.
Safety mechanism for nailing machines. J. A. Duran. 2,280,189; Apr. 21.
Sanding and polishing machine, Vibrator. A. Nyman. 2,280,446; Apr. 21.
Sanding machine. F. H. Morris. 2,280,498; Apr. 21.
Sanding relay. H. N. Sudduth. 2,280,319; Apr. 21.
Scanning means and method. P. T. Farnsworth. 2,280,572; Apr. 21.
Scavenger piston ring. T. A. Bowers. 2,280,744; Apr. 21.
Screen. E. S. Persson. 2,280,541; Apr. 21.
Serving apparatus. E. W. Dambach, Jr. 2,280,221; Apr. 21.
Servomotor, Self-centering. W. Ernst. 2,280,190; Apr. 21.
Sewing machine. J. G. Gerber. 2,280,289; Apr. 21.
Shade, Lamp. E. Brown. 2,280,213; Apr. 21.
Shade or the like. Window. C. Tietig. 2,280,358; Apr. 21.
Shaft, Making temperature stabilized. H. J. Stein. 2,280,671; Apr. 21.
Sharpener, Razor blade. E. H. Schipper. 2,280,312; Apr. 21.
Shaving machine. G. F. Bahr. 2,280,052; Apr. 21.
Shearing and shaving head for hair clippers. M. Andis. 2,280,363; Apr. 21.
Sheet feeding and transferring means. R. C. Talbot. 2,280,731; Apr. 21.
Sheet metal forming apparatus. C. P. Trudell. 2,280,359; Apr. 21.
Shoe. F. Brewin. 2,280,622; Apr. 21.
Shoe heel and making the same. H. A. Sheesley. 2,280,099; Apr. 21.
Shoe rack. H. G. Davis. 2,280,381; Apr. 21.
Shoe repairing machine. H. R. Myers. 2,280,418; Apr. 21.
Shoe shank. F. A. Melchionna. 2,280,440; Apr. 21.
Shoe, Skid. H. A. Sterner and E. H. Tschudy. 2,280,555; Apr. 21.
Signal. S. H. Caldwell. 2,280,186; Apr. 21.
Signal device, Vehicle. F. C. Young. 2,280,275; Apr. 21.
Signal for vehicles, Direction. De W. G. Vaughn. 2,280,559; Apr. 21.
Signaling system. W. A. Derr. 2,280,144; Apr. 21.
Size regulator. R. S. Elberty, Jr. 2,280,692; Apr. 21.
Skid chain applying tool. A. Speck. 2,280,316; Apr. 21.
Slicing machine. W. A. Van Berkel. 2,280,205; Apr. 21.
Slide fasteners, Applying reinforcing strip to. F. C. Rutherford. 2,280,664; Apr. 21.
Snubber. E. G. Glick. 2,280,429; Apr. 21.
Socket. G. H. Burt. 2,280,747; Apr. 21.
Soda straws, Packaging. G. O. Frostad. 2,280,405; Apr. 21.
Soil testing device. F. LeMieux, Jr. 2,280,592; Apr. 21.
Sole and making. E. D. Van Tassel, Jr. 2,280,108; Apr. 21.
Solvent dewaxing process. O. S. Pokorny. 2,280,260; Apr. 21.
Solvent treating process. E. D. Reeves. 2,280,264; Apr. 21.
Sound recording apparatus. H. Belar. 2,280,740; Apr. 21.
Speed drive, Variable. L. Zupan. 2,280,182; Apr. 21.
Spindle feed. R. S. Brescka. 2,280,469; Apr. 21.
Spreader. C. M. Harvey. 2,280,234; Apr. 21.
Spring liner. T. H. Thompson. 2,280,201; Apr. 21.
Stage effect and display device. M. K. Shipman. 2,280,315; Apr. 21.
Stand drive vehicle. L. D. Mead. 2,280,157; Apr. 21.
Staple fiber with high stretching capacity, Method for manufacturing. O. von Kohorn zu Kornegg. 2,280,326; Apr. 21.
Starches, Purification of. T. J. Schoch. 2,280,723; Apr. 21.
Starter mechanism. V. C. Hodges. 2,280,432; Apr. 21.
Steels, Deep hardening boron. W. Crafts. 2,280,283; Apr. 21.
Stepladder. L. Edelmann. 2,280,691; Apr. 21.
Stereoscope, Folding pocket. D. M. Reeves. 2,280,083; Apr. 21.
Stonelike units, Method and apparatus for making. E. M. Jenkins. 2,280,438; Apr. 21.
Structural joint. N. P. Green. 2,280,121; Apr. 21.
Suction cleaner. L. W. Pardee. 2,280,350; Apr. 21.
Suction cleaner. C. H. Sparklin. 2,280,269; Apr. 21.
Suction cleaner air flow construction. E. F. Martinet. 2,280,495; Apr. 21.
Sugar from sorghum juices. E. K. Ventre and H. S. Paine. 2,280,085; Apr. 21.
Sulphonation, Process of. B. A. Dombrow. 2,280,118; Apr. 21.
Sulphur composition. P. A. Ray. 2,280,301; Apr. 21.
Sulphuric acid, Manufacture of. L'R. G. Bousquet and M. J. Brooks. 2,280,508; Apr. 21.
Support: *See*—
Pipe support.
Support for building structures, Adjustable. H. T. Crosby. 2,280,220; Apr. 21.
Support for rural mail boxes, road markers, and the like. H. N. Calvert. 2,280,476; Apr. 21.
Support for surveying instrument telescopes. A. N. Brunson. 2,280,057; Apr. 21.
Surgical dressing. R. T. Betts. 2,280,506; Apr. 21.
Suture materials, Preparing. P. D. Plambeck. 2,280,603; Apr. 21.
Swab. L. A. Harvey. 2,280,398; Apr. 21.
Swaging. C. S. Penfold, E. E. Johnson, and G. H. Brailsford. 2,280,352; Apr. 21.
Swaging apparatus. C. S. Penfold, E. E. Johnson, and G. H. Brailsford. 2,280,351; Apr. 21.
Switch: *See*—
Direction signal switch. Multicircuit switch.
Electric switch. Pressure switch.
Intermittent switch. Thermal switch.
Switch. H. M. Lang. 2,280,243; Apr. 21.
Switch for well pumping units, Safety. C. R. Athy. 2,280,113; Apr. 21.
Synchronising-signal separating apparatus. J. C. Wilson. 2,280,181; Apr. 21.
Synthetic material. W. H. Moss. 2,280,098; Apr. 21.
Table: *See*—
Foldable leg table. Foldable table.
Table top construction. S. Madsen. 2,280,094; Apr. 21.
Tabulating machine, Attachment for a. A. B. Cooke. 2,280,219; Apr. 21.
Telephone system, Radio. V. C. Chappell. 2,280,420–21; Apr. 21.
Telephone system, Radio. V. C. Chappell and O. H. Dicke. 2,280,421; Apr. 21.
Teletypewriter switching system. F. S. Kinkead and J. A. Krecek. 2,280,292; Apr. 21.
Television circuits. D. E. Foster. 2,280,695; Apr. 21.
Temperature control system. W. A. Ray. 2,280,353; Apr. 21.
Tensioning apparatus, Wire or strip. D. E. and E. F. Lewellen. 2,280,194; Apr. 21.
Terrace building apparatus. A. W. Brown. 2,280,473; Apr. 21.
Theatre, Motion picture. F. Waller and R. Walker. 2,280,206; Apr. 21.
Thermal switch. W. C. Smitley. 2,280,550; Apr. 21.
Thermic telltale. H. L. Hexamer. 2,280,755; Apr. 21.
Thermo electric element, Fabricating a. M. W. Wiegand. 2,280,137; Apr. 21.
Thermometer, Oven. G. E. Ford. 2,280,393; Apr. 21.
Thermostat. C. G. Kronmiller. 2,280,651; Apr. 21.
Tie rack. L. A. Leonard. 2,280,294; Apr. 21.
Tire from a mold, Removing a. E. A. Glynn. 2,280,430; Apr. 21.
Tire recapping machine. C. W. Fryckstrom and V. A. Nelson. 2,280,401; Apr. 21.
Tire removing tool. F. E. Davenport. 2,280,380; Apr. 21.
Tobacco leaf hanger. J. Hays. 2,280,391; Apr. 21.
Tobacco casing machine. A. O. Hurxthal. 2,280,705; Apr. 21.
Tool: *See*—
Combination tool. Power operated hand tool.
Fishing tool. Skid-chain applying tool.
Line maintenance tool. Tire removing tool.
Machine tool. Vibratory electrical tool.
Polishing and finishing tool.
Toothbrush holder. F. E. Hart. 2,280,431; Apr. 21.
Transformer. G. Camilli. 2,280,625; Apr. 21.
Transmission line, Concentric conductor. P. H. Smith. 2,280,200; Apr. 21.
Transmission shifting mechanism. H. C. Snow. 2,280,641; Apr. 21.
Transmitter, Telephone call. C. D. Richard. 2,280,604; Apr. 21.
Transmission system, Two-way signal. D. Mitchell. 2,280,158; Apr. 21.
Transparent closure and the like. H. Dreyfus. 2,280,482; Apr. 21.
Treating and testing apparatus. J. G. Pfeiffer. 2,280,448; Apr. 21.
Treatment for wood, Protective. H. M. A. Vautherin. 2,280,560; Apr. 21.
Trimmer, Brick machine mold. F. M. Antibus, Jr., and H. D. Caylor. 2,280,276; Apr. 21.
Troughs, Metal feed. E. Murphy. 2,280,537; Apr. 21.
Truck, Lift. W. Stuebing, Jr. 2,280,104; Apr. 21.
Tufting attachment. T. J. Amos. 2,280,277; Apr. 21.
Tufting machine. T. J. Amos. 2,280,278; Apr. 21.
Tufting machine. J. H. Boyles. 2,280,212; Apr. 21.
Truss. J. E. Hansen. 2,280,395; Apr. 21.
Tube circuit, Cathode ray. S. C. Spielman. 2,280,670; Apr. 21.

Tubular elements, Assembling. R. N. Cheron. 2,280,509; Apr. 21.
Turbine for low temperature plants, Expansion. P. Kapitza. 2,280,585; Apr. 21.
Typewriting machine. G. F. Handley. 2,280,702; Apr. 21.
Utensil, Kitchen. J. C. Finely. 2,280,225; Apr. 21.
Uncoiling device. T. Wilson. 2,280,564; Apr. 21.
Urine pump. H. R. Liebetrau. 2,280,416; Apr. 21.
Vacuum cleaner nozzle. H. L. Davis. 2,280,751; Apr. 21.
Vacuum pickup. E. R. Miller. 2,280,658; Apr. 21.
Valve: *See*—
Back-up valve. Flow control valve.
Engine valve.
Valve. H. W. Perkins. 2,280,499; Apr. 21.
Valve. W. V. Smith. 2,280,757; Apr. 21.
Valve device. F. O. Graham. 2,280,309; Apr. 21.
Valve, Making engine poppet. A. T. Colwell. 2,280,686; Apr. 21.
Vat. T., J. J., and O. W. Mojonnier. 2,280,529; Apr. 21.
Vehicle: *See*—
Earth moving vehicle. Stand drive vehicle.
Vehicle. T. de Roode. 2,280,005; Apr. 21.
Vehicle brake. J. M. Milan. 2,280,599; Apr. 21.
Vehicle brake. G. J. Thomas. 2,280,134; Apr. 21.
Vehicle-operated door. D. D. Timmermann. 2,280,675; Apr. 21.
Vehicle passenger safety device. V. W. and L. F. Embree. 2,280,694; Apr. 21.
Vehicle storage device. E. W. Austin. 2,280,567; Apr. 21.
Vehicle undercarriage. F. M. Reid. 2,280,302; Apr. 21.
Vending machine. F. F. Tone. 2,280,323; Apr. 21.
Vent fitting, Guarded. H. Long. 2,280,195; Apr. 21.
Vermicidal composition. L. H. Miller and T. O. Booth. 2,280,340; Apr. 21.
Vertebrae manipulating and massaging device. H. E. Wildermuth. 2,280,274; Apr. 21.
Vibrating unit. F. E. Hutchison. 2,280,397; Apr. 21.
Vibration dampening device. E. Atteslander. 2,280,364; Apr. 21.
Vibrator mechanism for tobacco feeds and the like. W. C. Broekhuysen. 2,280,056; Apr. 21.
Vibratory electrical tool. W. H. Young. 2,280,610; Apr. 21.
Volume control for hearing aids. W. E. Schauer. 2,280,305; Apr. 21.
Water supply system, Boiler feed. H. D. Forsek. 2,280,574; Apr. 21.
Water supply system for concrete mixers. C. F. Ball. 2,280,518; Apr. 21.
Wave detector, Frequency modulated. S. Hunt. 2,280,525; Apr. 21.
Wave detector, Frequency modulated. G. Mountjoy. 2,280,530; Apr. 21.
Wax like product and making the same from tall oil or rosin and fatty acids. R. H. McKee and H. L. Blengsli. 2,280,247; Apr. 21.
Welding apparatus. G. G. Somerville. 2,280,551; Apr. 21.
Welding, Electric. M. E. Widell. 2,280,111; Apr. 21.
Welding machine, Automatic arc. J. E. Anderson. 2,280,770; Apr. 21.
Welding machine, Resistance. J. W. Bayles. 2,280,369; Apr. 21.
Well pump. W. Brauer. 2,280,279; Apr. 21.
Wheel: *See*—
Aeronautical wheel. Buffing wheel.
Wheel. R. W. Brown. 2,280,568; Apr. 21.
Wheel. F. W. Burger. 2,280,746; Apr. 21.
Wheels, Locking ring for. H. J. Horn. 2,280,584; Apr. 21.
Wick type oil burner. P. L. Dulaney. 2,280,690; Apr. 21.
Width receiver, Variable band. M. G. Crosby. 2,280,570; Apr. 21.
Winch. R. C. Lamond. 2,280,652; Apr. 21.
Window. E. S. Persson. 2,280,540; Apr. 21.
Window and the like. W. H. Moss. 2,280,097; Apr. 21.
Window construction. H. Edwards. 2,280,389; Apr. 21.
Windshield wiper clip. M. Zaiger. 2,280,566; Apr. 21.
Wire rope, Method and apparatus for treating. J. R. Reyburn. 2,280,500; Apr. 21.
Wrench for nuts, Adjustable. F. Malagrino. 2,280,594; Apr. 21.
Wringer. S. E. Schroeder. 2,280,313; Apr. 21.
Wrist strap. R. J. Keltie. 2,280,490; Apr. 21.

CLASSIFICATION OF PATENTS

ISSUED APRIL 21, 1942

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

1— 32: 2,280,189
2— 4: 2,280,668
14: 2,280,055
2,280,097
2,280,098
2,280,482
74: 2,280,479
92: 2,280,360
98: 2,280,120
162: 2,280,467
5— 11: 2,280,444
7— 14.1: 2,280,463
8— 128: 2,280,603
9— 1: 2,280,729
10— 136: 2,280,596
12— 4: 2,280,152
14: 2,280,199
17: 2,280,069
33: 2,280,418
55: 2,280,346
13— 6: 2,280,101
15— 16: Re.22,077
2,280,269
20: 2,280,424
41: 2,280,077
98: 2,280,610
101.01: 2,280,510
123: 2,280,398
158: 2,280,751
245: 2,280,225
250: 2,280,506
250.3: 2,280,400
16— 191: 2,280,655
18— 2: 2,280,430
5: 2,280,488
6: 2,280,136
18: 2,280,401
45: 2,280,074
54: 2,280,320
2,280,902
55: 2,280,709
58: 2,280,636
19— 155: 2,280,250
20— 2: 2,280,591
8: 2,280,071
23: 2,280,232
35: 2,280,254
50.5: 2,280,540
92: 2,280,121
22— 155: 2,280,597
23— 1: 2,280,674
117: 2,280,590
147: 2,280,168
172: 2,280,508
272: 2,280,466
288: 2,280,081
2,280,089
24— 3: 2,280,304
115: 2,280,694
211: 2,280,162
25— 104: 2,280,276
106: 2,280,373
121: 2,280,635
29— 84: 2,280,068
2,280,665
86.4: 2,280,557
148.2: 2,280,245
155.55: 2,280,352
156.7: 2,280,686
30— 16: 2,280,336
43: 2,280,052
2,280,363
116: 2,280,486
132: 2,280,348
150: 2,280,612
231: 2,280,159
33— 1: 2,280,485
23: 2,280,163
33— 46: 2,280,057
46.5: 2,280,126
223: 2,280,726
34— 212: 2,280,704
36— 34: 2,280,099
51: 2,280,622
76: 2,280,440
37— 58: 2,280,066
110: 2,280,473
124: 2,280,439
126: 2,280,696
147: 2,280,520
191: 2,280,141
38— 22: 2,280,288
25: 2,280,404
60: 2,280,719
144: 2,280,720
40— 102: 2,280,682
130: 2,280,558
41— 17: 2,280,112
43— 17: 2,280,457
20: 2,280,759
42: 2,280,197
124: 2,280,495
44— 9: 2,280,217
2,280,716
46— 169: 2,280,244
47— 2: 2,280,267
48— 176: 2,280,657
2,280,679
2,280,768
49— 5: 2,280,167
2,280,268
47: 2,280,306
51— 58: 2,280,379
72: 2,280,498
165: 2,280,692
170: 2,280,446
2,280,762
184.1: 2,280,769
187: 2,280,767
193: 2,280,399
197: 2,280,149
212: 2,280,312
262: 2,280,620
52— 14: 2,280,366
53— 5: 2,280,131
7: 2,280,148
55— 3: 2,280,372
56— 23: 2,280,453
26.5: 2,280,124
57— 5: Re.22,078
9: 2,280,188
34: 2,280,500
60— 15: 2,280,487
41: 2,280,765
54.5: 2,280,153
97: 2,280,203
62— 4: 2,280,202
6: 2,280,425
2,280,736
80: 2,280,554
107: 2,280,320
114: 2,280,434
122: 2,280,383
123: 2,280,585
125: 2,280,273
126: 2,280,133
140: 2,280,512
141: 2,280,266
66— 14: 2,280,698
80: 2,280,535
121: 2,280,344
153: 2,280,472
191: 2,280,536
67— 31: 2,280,508
68— 263: 2,280,313
70— 71: 2,280,648
71— 2: 2,280,451
71— 2: 2,280,756
18: 2,280,129
2,280,130
72— 18: 2,280,631
77: 2,280,220
105: 2,280,080
73— 31: 2,280,325
2,280,411
51: 2,280,075
2,280,483
2,280,617
337: 2,280,241
367: 2,280,393
74— 1: 2,280,450
9: 2,280,432
38: 2,280,587
57: 2,280,261
217: 2,280,182
251: 2,280,502
469: 2,280,246
477: 2,280,641
501: 2,280,105
2,280,106
540: 2,280,644
574: 2,280,364
604: 2,280,384
75— 58: 2,280,063
2,280,284
2,280,285
2,280,286
85: 2,280,706
123: 2,280,283
125: 2,280,179
127: 2,280,452
138: 2,280,169
141: 2,280,170
142: 2,280,171
2,280,173
2,280,175
143: 2,280,174
147: 2,280,172
2,280,176
2,280,177
148: 2,280,178
77— 32: 2,280,469
33: 2,280,115
63: 2,280,156
80— 57: 2,280,764
81— 15.8: 2,280,316
143: 2,280,594
82— 4: 2,280,646
83— 11: 2,280,619
14: 2,280,423
45: 2,280,238
91: 2,280,703
84— 480: 2,280,593
85— 5: 2,280,403
88— 1: Re.22,076
14: 2,280,492
16: 2,280,608
16.2: 2,280,206
18.4: 2,280,737
18.7: 2,280,067
20: 2,280,297
24: 2,280,750
29: 2,280,083
41: 2,280,354
52: 2,280,666
54: 2,280,322
90— 13.9: 2,280,436
22: 2,280,760
26: 2,280,481
33: 2,280,229
2,280,230
91— 32: 2,280,433
33: 2,280,415
39: 2,280,556
67.8: 2,280,125
92— 49: 2,280,208
93— 1: 2,280,092
3: 2,280,405
93: 2,280,663
94— 18: 2,280,455
22: 2,280,333
95— 6: 2,280,722
7: 2,280,300
11: 2,280,561
85: 2,280,096
88: 2,280,721
90.5: 2,280,113
97— 50: 2,280,342
113: 2,280,681
209: 2,280,107
99— 28: 2,280,365
123: 2,280,427
210: 2,280,147
101— 35: 2,280,328
36: 2,280,413
134.5: 2,280,095
175: 2,280,414
282: 2,280,091
103— 5: 2,280,087
2,280,287
7: 2,280,271
2,280,272
10: 2,280,626
11: 2,280,392
38: 2,280,190
42: 2,280,291
155: 2,280,279
219: 2,280,076
232: 2,280,589
105— 230: 2,280,146
409: 2,280,318
106— 16: 2,280,477
70: 2,280,301
143: 2,280,546
235: 2,280,653
250: 2,280,082
107— 1: 2,280,324
108— 1: 2,280,647
6: 2,280,579
109— 34: 2,280,553
112— 79: 2,280,212
2,280,277
2,280,278
158: 2,280,289
178: 2,280,468
235: 2,280,193
113— 44: 2,280,359
112: 2,280,150
2,280,337
114— 52: 2,280,547
116— 106: 2,280,755
124.4: 2,280,700
117— 4: 2,280,259
16: 2,280,240
60: 2,280,216
108: 2,280,560
119— 25: 2,280,511
61: 2,280,537
71: 2,280,410
121— 38: 2,280,341
41: 2,280,345
159: 2,280,588
122— 456: 2,280,574
123— 14: 2,280,742
33: 2,280,317
43: 2,280,645
44: 2,280,669
51: 2,280,079
53: 2,280,712
130: 2,280,386
140: 2,280,248
2,280,496
148: 2,280,426
171: 2,280,660
177: 2,280,758
123— 195: 2,280,753
127— 71: 2,280,723
128— 29: 2,280,050
67: 2,280,624
69: 2,280,274
76: 2,280,576
100: 2,280,395
156: 2,280,506
129— 25: 2,280,184
131— 138: 2,280,705
235: 2,280,543
136— 5: 2,280,137
137— 78: 2,280,632
153: 2,280,390
165: 2,280,656
138— 37: 2,280,195
79: 2,280,339
139— 124: 2,280,478
140— 113: 2,280,351
144— 233: 2,280,295
146— 88: 2,280,621
102: 2,280,205
111: 2,280,677
123: 2,280,211
125: 2,280,053
158: 2,280,059
148— 9: 2,280,151
10: 2,280,552
12: 2,280,671
21: 2,280,470
32: 2,280,103
149— 5: 2,280,108
6: 2,280,310
151— 21: 2,280,270
152— 228: 2,280,555
243: 2,280,717
153— 2: 2,280,255
81: 2,280,078
154— 1: 2,280,664
2: 2,280,249
2,280,252
2,280,582
16: 2,280,314
40: 2,280,699
155— 73: 2,280,732
86: 2,280,298
133: 2,280,231
156— 10: 2,280,358
2,280,697
14: 2,280,541
157— 6: 2,280,380
158— 42.1: 2,280,140
77: 2,280,638
94: 2,280,690
113: 2,280,061
159— 4: 2,280,073
164— 61: 2,280,224
94: 2,280,701
95: 2,280,204
166— 8: 2,280,054
167— 53: 2,280,340
56: 2,280,265
170— 135: 2,280,715
163: 2,280,374
2,280,713
2,280,714
173: 2,280,090
171— 34: 2,280,161
95: 2,280,524
2,280,531
119: 2,280,766
324: 2,280,735
172— 239: 2,280,062
2,280,652
246: 2,280,456
281: 2,280,749
282: 2,280,117
173— 324: 2,280,728
328: 2,280,747
174— 28: 2,280,200
52: 2,280,711
167: Re.22,079
175— 183: 2,280,066
2,280,119
2,280,678
264: 2,280,327
358: 2,280,625
363: Re.22,075
367: 2,280,437
375: 2,280,377
176— 4: 2,280,573
16: 2,280,489
125: 2,280,613
177— 324: 2,280,186
329: 2,280,275
2,280,559
352: 2,280,725
353: 2,280,144
178— 2: 2,280,292
7.5: 2,280,181
2,280,191
7.7: 2,280,572
44: 2,280,158
2,280,282
2,280,293
2,280,661
2,280,672
69.5: 2,280,688
71: 2,280,308
179— 40: 2,290,280
51: 2,280,538
90: 2,280,604
100.3: 2,280,740
100.41: 2,280,763
171: 2,280,532
2,280,605
171.5: 2,280,693
2,280,707
180— 22: 2,280,741
77: 2,280,157
183— 7: 2,280,330
8: 2,280,417
120: 2,280,633
184— 6: 2,280,198
2,280,296
65: 2,280,462
105: 2,280,533
186— 1: 2,280,221
188— 56: 2,280,754
72: 2,280,599
78: 2,280,134
79.5: 2,280,154
2,280,196
189— 2: 2,280,542
36: 2,280,361
62: 2,280,642
64: 2,280,142
75: 2,280,389
192— 16: 2,280,180
20: 2,280,222
54: 2,280,693
68: 2,280,356
69: 2,280,357
105: 2,280,127
111: 2,280,355
194— 48: 2,280,580
195— 8: 2,280,307
11: 2,280,085
196— 13: 2,280,264
18: 2,280,260
35: 2,280,227
44: 2,280,237
52: 2,280,673
53: 2,280,258
54: 2,280,445
197— 133: 2,280,219
153: 2,280,702
189: 2,280,145

198— 29:	2,280,522	211— 13:	2,280,471	234— 68:	2,280,613	250— 20:	2,280,461	259— 163:	2,280,518	274— 17:	2,280,575
220:	2,280,056	35:	2,280,381	236— 1:	2,280,739		2,280,521	176:	2,280,513	275— 2:	2,280,234
200— 1:	2,280,438	106:	2,280,294	9:	2,280,353		2,280,562	260— 22:	2,280,256	277— 42:	2,280,309
11:	2,280,143	119. 16:	2,280,526	80:	2,280,951		2,280,563	77:	2,280,242	279— 103:	2,280,299
50:	2,280,334	184:	2,280,371		2,280,128		2,280,569	97. 5:	2,280,247	280— 124:	2,280,302
52:	2,280,114	213— 32:	2,280,428	240— 10. 1:	2,280,684		2,280,570	124:	2,280,600	292:	2,280,734
53:	2,280,407	214— 16. 1:	2,280,557	10. 63:	2,280,343	27:	2,280,303	240:	2,280,253	282— 23:	2,280,409
54:	2,280,493	135:	2,280,329	11. 2:	2,280,548		2,280,448	253:	2,280,639	285— 6. 5:	2,280,350
59:	2,280,110	215— 40:	2,280,070	41. 15:	2,280,402		2,280,465	314:	2,280,072	163:	2,280,183
81:	2,280,494	42:	2,280,724	48. 4:	2,280,581		2,280,525		2,280,507	287— 54:	2,280,500
82:	2,280,262	216— 26:	2,280,480	54:	2,280,522		2,280,526	315:	2,280,504	54. 1:	2,280,662
84:	2,280,362	55:	2,280,730	78:	2,280,595		2,280,530	397. 4:	2,280,236	90:	2,280,634
88:	2,280,281	217— 44:	2,280,761		2,280,534		2,280,545	397. 7:	2,280,497	290— 17:	2,280,378
113:	2,280,539	219— 4:	2,280,399	103:	2,280,640		2,280,630	400:	2,280,118	291— 3:	2,280,319
131:	2,280,565	6:	2,280,111	106:	2,280,160		2,280,670	440:	2,280,132	292— 152:	2,280,064
138:	2,280,667	8:	2,280,223	108:	2,280,213		2,280,695	465:	2,280,058	288:	2,280,122
139:	2,280,695		2,280,581	242— 45:	2,280,194		2,280,723	551:	2,280,578	294— 5. 5:	2,280,391
	2,280,651		2,280,626	55:	2,280,727	27. 5:	2,280,228	599:	2,280,311	64:	2,280,658
146:	2,280,616		2,280,770	72:	2,280,370		2,280,449	601:	2,280,200	116:	2,280,422
148:	2,280,321	10:	2,280,699	78:	2,280,564		2,280,454	663:	2,280,207	299— 140:	2,280,388
152:	2,280,243	13:	2,280,064	244— 79:	2,280,116	33:	2,280,235	676:	2,280,739	301— 5:	2,280,637
153:	2,280,215		2,280,102	83:	2,280,654	36:	2,280,527		2,280,743	9:	2,280,864
	2,280,680	17:	2,280,627	102:	2,280,185	40:	2,280,606	720:	2,280,484	13:	2,280,746
201— 62:	2,280,305	220— 3:	2,280,088	118:	2,280,065		2,280,607	263— 19:	2,280,458	63:	2,280,568
64:	2,280,257		2,280,501	121:	2,280,308	113:	2,280,550	29:	2,280,571	302— 11:	2,280,394
	2,280,515	221— 11:	2,280,123		2,280,582	141:	2,280,135	265— 14:	2,280,502	303— 51:	2,280,615
	2,280,516	47. 1:	2,280,708	246— 33:	2,280,491	251— 21:	2,280,499	267— 34:	2,280,429	80:	2,280,752
	2,280,517	67:	2,280,519	34:	2,280,464	123:	2,280,757	47:	2,280,201	304— 16:	2,280,396
66:	2,280,367	130:	2,280,166	348— 35:	2,280,676	164:	2,280,549	52:	2,280,347	306— 6:	2,280,165
202— 75:	2,280,093	147:	2,280,263	54:	2,280,349	252— 33:	2,280,419	268— 35:	2,280,675	308— 6:	2,280,375
200:	2,280,210	223— 91:	2,280,435	145:	2,280,476	35:	2,280,474	74:	2,280,357	121:	2,280,385
206— 7:	2,280,138	115:	2,280,251	181:	2,280,406	36:	2,280,338	271— 12:	2,280,731	187:	2,280,659
15. 1:	2,280,431	224— 4:	2,280,490	229:	2,280,416		2,280,475	272— 13:	2,280,315	309— 44:	2,280,745
41. 1:	2,280,164	226— 5:	2,280,335	349— 18:	2,280,614	53:	2,280,450	51:	2,280,643	45:	2,280,743
42:	2,280,443	228— 37:	2,280,691	250— 1:	2,280,109	252:	2,280,060	273— 1:	2,280,623		2,280,744
46:	2,280,442	229— 3. 5:	2,280,229		2,280,226	351:	2,280,649	29:	2,280,376	311— 4:	2,280,094
78:	2,280,503	6:	2,280,544	6:	2,280,420	354:	2,280,650	37:	2,280,332	82:	2,280,412
209— 462:	2,280,209	14:	2,280,155		2,280,421	398:	2,280,611	75:	2,280,382		2,280,566
210— 74:	2,280,214	56:	2,280,691	11:	2,280,514	254— 10:	2,280,104	106. 5:	2,280,441	312— 22:	2,280,718
122. 5:	2,280,577	230— 79:	2,280,100		2,280,738	77:	2,280,192	129:	2,280,331	36:	2,280,823
131:	2,280,480	102:	2,280,447	20:	2,280,139	255— 14:	2,280,408	157:	2,280,609	67:	2,280,218
152:	2,280,397	234— 2:	2,280,233		2,280,187	280— 108:	2,280,529	274— 10:	2,280,685	314— 19:	2,280,629

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,280,082	106—250	2,280,204	164— 95	2,280,299	279—103	2,280,400	15—250. 3	2,280,546	106—143	2,280,653	106—235
2,280,085	195— 11	2,280,214	210— 74	2,280,309	250— 27	2,280,444	5— 11	2,280,550	250—113	2,280,694	24—115
2,280,112	41— 17	2,280,215	200—153	2,280,309	277— 42	2,280,449	250—27. 5	2,280,560	117—108	2,280,711	174— 52
2,280,126	33—46. 5	2,280,216	117— 60	2,280,348	30—132	2,280,463	7—14. 1	2,280,582	154— 2	2,280,715	170—135
2,280,171	75—142	2,280,240	117— 16	2,280,349	248— 54	2,280,475	252— 39	2,280,589	103—232	2,280,724	215— 42
2,280,174	75—143	2,280,244	46—169	2,280,350	285— 6. 5	2,280,488	18— 5	2,280,611	252—208	2,280,759	43— 20
2,280,179	75—125	2,280,259	117— 4	2,280,371	211—184	2,280,519	221— 67	2,280,629	314— 19		
2,280,195	138— 37	2,280,298	155— 86	2,280,396	304— 16	2,280,526	214—119. 16	2,280,632	137— 78		

U. S. GOVERNMENT PRINTING OFFICE: 1942

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Aeronautical Radio, Inc., Washington, D. C. Radio transmitters, radio receivers, and parts and accessories thereto. Serial No. 447,784; Apr. 28. Class 21.

Allum, Ralph D., New York, N. Y. Natural citrus fruit concentrate and for citrus fruit concentrate fortified with ascorbic acid, for use in vitamin C deficiencies. Serial No. 451,157; Apr. 28. Class 6.

American Maize-Products Company, New York, N. Y. Starch. Serial No. 451,064; Apr. 28. Class 6.

Anré. (See Koenig, Harry D.)

Arden, Elizabeth, Inc., New York, N. Y. Compacts. Serial No. 449,974; Apr. 28. Class 2.

Ariens Company, Brillion, Wis. Machine for preparing, applying, and leveling the surface of roads. Serial No. 448,488; Apr. 28. Class 23.

Armour and Company of Delaware, Chicago, Ill. Soaps. Serial No. 450,776; Apr. 28. Class 4.

Basic Refractories, Inc., Cleveland, Ohio. Refractory preparations suitable for furnace lining and repairing. Serial No. 450,613; Apr. 28. Class 12.

Better Monkey Grip Co., Arlington, Tex. Vulcanizing patches. Serial No. 445,254; Apr. 28. Class 35.

Blair, Edwin P., Philadelphia, Pa. Income tax calculating devices. Serial No. 449,117; Apr. 28. Class 26.

Botany Worsted Mills, Passaic, N. J. Neckties. Serial No. 451,286; Apr. 28. Class 39.

Braun, Geo. P., Company, Chicago, Ill. Vitamin fortifier. Serial No. 451,708; Apr. 28. Class 6.

Brown Company, Portland, Maine, and Berlin, N. H. Cellulose pulps. Serial No. 442,187; Apr. 28. Class 1.

Burden-Bryant Company, The, Springfield, Mass. Stoves and ranges. Serial No. 450,999; Apr. 28. Class 34.

Camillus Cutlery Co., New York, N. Y. Knives and scissors. Serial No. 451,258; Apr. 28. Class 23.

Champion Brake Corporation, Chicago, Ill. Railway car hand brakes. Serial No. 442,305; Apr. 28. Class 19.

Chicago Mail Order Company, Chicago, Ill. Men's and boys' work clothing. Serial No. 450,955; Apr. 28. Class 39.

Christy Cosmetics, Inc., New York, N. Y. Lipsticks. Serial No. 451,295; Apr. 28. Class 6.

Ciba Pharmaceutical Products, Inc., Summit, N. J. Water soluble ovarian extract. Serial No. 451,668; Apr. 28. Class 6.

Ciba Pharmaceutical Products, Inc., Summit, N. J. Liposoluble ovarian extract. Serial No. 451,669; Apr. 28. Class 6.

Ciba Pharmaceutical Products, Inc., Summit, N. J. Antispasmodic. Serial No. 451,670; Apr. 28. Class 6.

Cleveland Graphite Bronze Company, The, Cleveland, Ohio. Bearings. Serial No. 450,956; Apr. 28. Class 23.

Coast Fishing Company, Wilmington, Calif. Canned fish. Serial No. 451,461; Apr. 28. Class 46.

Collins, D. R., Ltd., London, England. Perfumes, face powder, and essences for toilet purposes. Serial No. 449,765; Apr. 28. Class 6.

Consolidated Royal Chemical Corporation, Chicago, Ill. White shoe cleaning fluid. Serial No. 440,645; Apr. 28. Class 4.

Cooper, Dan, New York, N. Y. Tables. Serial No. 450,330; Apr. 28. Class 32.

Cosmetic Company, Boston, Mass. Pharmaceutical preparation. Serial No. 450,847; Apr. 28. Class 6.

Courtaulds, Limited, London, England. Piece goods made of cellulose yarns. Serial No. 450,711; Apr. 28. Class 42.

Courtaulds, Limited, London, England. Artificial silk piece goods. Serial No. 450,717; Apr. 28. Class 42.

Courtaulds, Limited, London, England. Piece goods made of cellulose yarns. Serial No. 450,719; Apr. 28. Class 42.

Courtaulds, Limited, London, England. Piece goods made of cellulose yarns. Serial No. 450,721; Apr. 28. Class 42.

Courtaulds, Limited, London, England. Piece goods made of cellulose yarns. Serial No. 450,723; Apr. 28. Class 42.

Courtaulds, Limited, London, England. Piece goods made of cellulose yarns. Serial No. 450,725; Apr. 28. Class 42.

D'Ciny. (See Sinykin, J. L.)

Diamalloy Co., The. (See Smith, Harry A.)

Duplan Corporation, The, New York, N. Y. Yarns made of silk, rayon, etc. Serial No. 450,624; Apr. 28. Class 43.

Dutchess Underwear Corporation, New York, N. Y. Ladies' underwear, pajamas, and nightgowns. Serial Nos. 445,980–2; Apr. 28. Class 39.

Dutchess Underwear Corporation, New York, N. Y. Ladies' underwear, pajamas, nightgowns, and street dresses. Serial Nos. 447,325–7; Apr. 28. Class 39.

E. A. Laboratories, Inc., Brooklyn, N. Y. Electric horns and lamps for use on vehicles, bicycles, automobiles and trucks. Serial No. 446,622; Apr. 28. Class 21.

Edghills Laboratories. (See Schwalb, William A.)

F-P-V Equipment Corporation, Richmond, Va., and Washington, D. C. Thermal containers made of paper derivatives. Serial No. 441,429; Apr. 28. Class 2.

Fairmont Creamery Company, The, Omaha, Nebr. Dressed poultry. Serial No. 450,307; Apr. 28. Class 46.

Farrell, Edward G., Prairie du Chien, Wis. Treatment of coughs and preparation for external application. Serial No. 451,051; Apr. 28. Class 6.

Friedman-Lobel, Inc., New York, N. Y. Plastic head mesh handbags. Serial No. 451,032; Apr. 28. Class 3.

Geerlings, Petrus J., doing business as Geerlings Feed Mills, Marshalltown, Iowa. Livestock and poultry feed. Serial No. 447,940; Apr. 28. Class 46.

General Farming Company, Guadalupe, Calif. Fresh vegetables. Serial No. 450,678; Apr. 28. Class 46.

General Mills, Inc., Minneapolis, Minn. Food for carnivorous animals. Serial No. 445,847; Apr. 28. Class 46.

Gillette Safety Razor Company, Boston, Mass. Safety razors. Serial No. 451,173; Apr. 28. Class 23.

Gimbel Brothers, Inc., New York, N. Y. Soap. Serial No. 451,080; Apr. 28. Class 4.

Guild, L. W., Company, Inc., Boston, Mass. Cotton fabrics. Serial No. 450,798; Apr. 28. Class 42.

Guild, L. W., Company, Inc., Boston Mass. Cotton textile fabrics. Serial No. 450,799; Apr. 28. Class 42.

Hitt, Daniel W., doing business as The Lobrin Company, Dallas, Tex. Acetanilide compound tablet. Serial No. 440,652; Apr. 28. Class 6.

Hobart Manufacturing Company, The, Troy, Ohio. Machines for grinding, chopping, mixing, etc. Serial No. 451,599; Apr. 28. Class 23.

Holmberg, Rudolph, doing business as Neptune Health Products, New York, N. Y. Preparation which aids in temporarily relieving occasional constipation. Serial No. 451,218; Apr. 28. Class 6.

How, T. F., & Son Limited, Leicester, England. Men's and children's underclothing, and women's underwear. Serial No. 438,767; Apr. 28. Class 39.

Huard, Hector, Jr., doing business as The Huard Laboratories, Norwich, Conn. Dog vermifuge. Serial No. 451,716; Apr. 28. Class 6.

Ideal Novelty & Toy Co., Long Island City, N. Y. Toy animals. Serial No. 451,383; Apr. 28. Class 22.

Interstate Publishing Co., Boston, Mass. Newspaper. Serial No. 450,397; Apr. 28. Class 38.

Iroquois Oil Corp., Buffalo, N. Y. Fuel and motor oil, and gasoline. Serial No. 450,854; Apr. 28. Class 15.

Jack & Heintz, Inc., Bedford, Ohio. Internal combustion engine starters and motors therefor. Serial Nos. 459,936–8; Apr. 28. Class 21.

James, Robert E., Garden City, Long Island, N. Y. Miniature figures, statuettes, or figurines. Serial No. 448,432; Apr. 28. Class 50.

Julian & Kokenge Co., The, Columbus, Ohio. Shoes. 450,900; Apr. 28. Class 39.

Kehm Corporation, The, Chicago, Ill. Circulating heaters, floor furnaces, unit heaters, etc. 447,522; Apr. 28. Class 34.

King's Old Country, Limited, Winnipeg, Manitoba, Canada. Ginger beer, root beer, ginger ale, etc. Serial Nos. 440,513–14; Apr. 28. Class 45.

Koenig, Harry D., doing business as Anré, New York, N. Y. Face powders, face rouge, face creams, etc. Serial No. 449,691; Apr. 28. Class 6.

Kono, Alexander, doing business as The Kono Manufacturing Company, Woodside, Long Island, N. Y. Eyeglass and spectacle frames and parts therefor. Serial No. 451,307; Apr. 28. Class 26.

Korrect Coat Company, Cleveland, Ohio. Woolen piece goods. Serial No. 450,649; Apr. 28. Class 42.

Latham Watch Co., Inc., New York, N. Y. Watches and watch movements. Serial No. 450,835; Apr. 28. Class 27.

Laundry Sales and Advertising of the U. S. A. (See O'Laverty, H. G.)

Lear Avia, Inc., Piqua, Ohio. Mechanical driving systems. Serial No. 450,802; Apr. 28. Class 23.

Lefcort Hosiery Company, Inc., New York, N. Y. Ladies' and misses' hosiery of synthetic or cotton yarns and mixtures thereof. Serial No. 451,012. Apr. 28. Class 39.

Lehn & Fink Products Corporation, Bloomfield, N. J. Lipsticks, compact rouge, cream rouge and nail polish. Serial No. 451,385; Apr. 28. Class 6.

Lichtenberg, Sam, Inc., New York, N. Y. Curtains. Serial No. 450,650; Apr. 28. Class 42.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. Serial No. 433,443; Apr. 28. Class 6.

Lincoln Engineering Company, St. Louis, Mo. Pumps for lubricants and putty like materials. Serial No. 451,723; Apr. 28. Class 23.
Lobrin Company, The. (See Hitt, Daniel W.)
Lucas, John, and Company, Incorporated, Philadelphia, Pa. Insecticides and fungicides. Serial Nos. 450,233–4; Apr. 28. Class 6.
Mann, F. J., Inc., Long Island City, N. Y. Pharmaceutical preparation to be used as a heart stimulant. Serial No. 451,471; Apr. 28. Class 6.
Michigan Artcraft Company, Sparta, Mich. Drop leaf tables. Serial No. 450,655; Apr. 28. Class 32.
Mol-La Laboratories, New York, N. Y. Medicinal confection. Serial No. 431,267; Apr. 28. Class 6.
Mono-Script Co. Inc., The, New York, N. Y. Markers for marking or writing with upon paper, cardboard, cloth, etc. Serial No. 450,372; Apr. 28. Class 37.
Monsanto Chemical Company, St. Louis, Mo. Solid waxy materials for use in the industrial arts. Serial No. 449,463; Apr. 28. Class 1.
N & W Tailors, Inc., Cincinnati, Ohio. Men's coats, vests, pants, etc. Serial No. 450,599; Apr. 28. Class 39.
Nathanson, Eve, East Greenwich, R. I. Ornamental jewelry. Serial No. 450,569; Apr. 28. Class 28.
National Biscuit Company, New York, N. Y. Bakery products. Serial No. 439,120; Apr. 28. Class 46.
National Nugrape Company, Atlanta, Ga. Beverages and extracts and syrups for making same. Serial No. 446,084; Apr. 28. Class 45.
Neptune Health Products. (See Holmberg, Rudolph.)
New York Bag Co. Inc., New York, N. Y. Ladies' handbags and purses. Serial No. 451,364; Apr. 28. Class 3.
O'Laverty, H. G., doing business as Laundry Sales and Advertising of the U. S. A., Battle Creek, Mich. Labels with printing thereon. Serial No 450,659; Apr. 28. Class 37.
Pacific Food Products Co. Inc., San Francisco, Calif. Sea food. Serial No. 422,860; Apr. 28. Class 46.
Pentuff, Odoredo, Tampa, Fla. Roach powder (non-poisonous). Serial No. 450,975; Apr. 28. Class 6.
Phillips Petroleum Company, Bartlesville, Okla. Storage batteries. Serial No. 440,754; Apr. 28. Class 21.
Plunkett, W. H., doing business as Plunkett Chemical Company, Chicago, Ill. Cleaning compound, cleanser, and soap. Serial No. 450,688; Apr. 28. Class 4.
Plunkett, W. H., doing business as Plunkett Chemical Company, Chicago, Ill. Floor finish, commonly known as floor wax. Serial No. 450,691; Apr. 28. Class 16.
Plunkett, W. H., doing business as Plunkett Chemical Company, Chicago, Ill. Cleaning compound. Serial No. 450,693; Apr. 28. Class 4.
Premo Pharmaceutical Laboratories, Inc., New York, N. Y. Vitamin concentrate in capsule, tablet and liquid form. Serial No. 451,419; Apr. 28. Class 6.
Premo Pharmaceutical Laboratories, Inc., New York, N. Y. Laxative preparation. Serial No. 451,777; Apr. 28. Class 6.
Pullman Company, The, Chicago, Ill. Railroad passenger cars. Serial No. 437,286; Apr. 28. Class 19.
Quaker Oats Company, The, Chicago, Ill. Stock and poultry feeds. Serial No. 449,805; Apr. 28. Class 46.
Quikaps Products Co., Amityville, N. Y. Preparation used for the relief of simple headaches, neuralgia, etc. Serial No. 451,273; Apr. 28. Class 6.
Raffetto, G. B., Inc., New York, N. Y. Chutney condiment. Serial No. 450,863; Apr. 28. Class 46.
Riverbank Canning Company. (See Zerillo, Lorenzo.)
Rubinstein, Helena, Inc., New York, N. Y. Perfumes and colognes. Serial No. 451,213; Apr. 28. Class 6.
Schwalb, William A., doing business as Edghills Laboratories, New York, N. Y. Hair preparations. Serial No. 451,729; Apr. 28. Class 6.
Sheffield Steel Corporation, Kansas City, Mo. Steel alloy grinding balls. Serial No. 449,397; Apr. 28. Class 23.
Shellmar Products Company, Mount Vernon, Ohio. Paper bags. Serial No. 447,313; Apr. 28. Class 2.
Sinykin, J. L., doing business as D'Ciny, St. Paul, Minn. Eau de cologne and perfume. Serial No. 449,729; Apr. 28. Class 6.
Smith, Harry A., doing business as The Diamalloy Co., Gowanda, N. Y. Metallic welding rods. Serial No. 450,945; Apr. 28. Class 14.
Smith, Landon P., Inc., Irvington, N. J. Steps for attaching to the rungs of ladders. Serial No. 449,846; Apr. 28. Class 50.
Sondra Undergarments, Inc., New York, N. Y. Ladies' underwear, nightgowns, and pajamas. Serial No. 440,887; Apr. 28. Class 39.
Souther, E. E., Iron Company, St. Louis, Mo. Air conditioning units. Serial No. 443,138; Apr. 28. Class 34.
Spalding Sales Corporation, Chicopee, Mass. Tennis rackets. Serial No. 450,060; Apr. 28. Class 22.
Split Second Gas Company, The, Denver, Colo. Gasoline. Serial No. 450,816; Apr. 28. Class 15.
Squibb, E. R., & Sons, New York, N. Y. Oral preparations. Serial No. 428,208; Apr. 28. Class 6.
Squibb, E. R., & Sons, New York, N. Y. Anticoccidiotic preparations. Serial No. 451,694; Apr. 28. Class 6.
Staley, A. E., Manufacturing Company, Decatur, Ill. Plant growth promoting substances. Serial No. 450,910; Apr. 28. Class 6.
Sterling Tool Products Company, Chicago, Ill. Sanding or polishing machines. Serial No. 448,684; Apr. 28. Class 23.
Strunk, J. Horace, Bangor, Pa. Magazine. Serial No. 451,370; Apr. 28. Class 38.
Stuart Place Citrus Assn., Harlingen, Tex. Fresh citrus fruit. Serial No. 450,869; Apr. 28. Class 46.
Terminal Grain Company, Fort Worth, Tex. Seed grains and field seeds. Serial No. 418,658; Apr. 28. Class 1.
Teubert, Nellie, Edgerton, Wis. Batter for fried chicken. Serial No. 449,304; Apr. 28. Class 46.
Toledo Steel Products Company, The, Toledo, Ohio. Tie rod ends for vehicles, vehicle shackles, vehicle spring bushings, etc. Serial No. 449,305; Apr. 28. Class 19.
Transcontinental & Western Air, Inc., North Kansas City, Mo. Airplanes. Serial Nos. 451,023–4; Apr. 28. Class 19.
Union Oil Company of California, Los Angeles, Calif. Mineral oils for use in the manufacture of paints, floor oils, etc. Serial No. 432,417; Apr. 28. Class 16.
Van Dell Company, The, Providence, R. I. Jewelry ornaments, men's and ladies' jewelry. Serial No. 450,499; Apr. 28. Class 28.
Wee-Folks Diaper Service, Chicago, Ill. Sterilized diapers. Serial No. 438,858; Apr. 28. Class 39.
Wells Lamont Smith Corporation, Chicago, Ill. Work gloves. Serial No. 450,912; Apr. 28. Class 39.
Willard Storage Battery Company, Cleveland, Ohio. Storage battery chargers. Serial No. 444,624; Apr. 28. Class 21.
Wilson & Co., Inc., Chicago, Ill. Vegetable shortening. Serial No. 447,086; Apr. 28. Class 46.
Yourself Publication, Inc., New York, N. Y. Magazine. Serial No. 451,331; Apr. 28. Class 38.
Zerillo, Lorenzo, doing business as Riverbank Canning Company, Riverbank, Calif. Canned fruits, vegetables, fish, etc. Serial No. 448,665; Apr. 28. Class 46.

LIST OF REGISTRANTS OF TRADE-MARKS

Abraham & Straus, Inc., Brooklyn, N. Y. Decorative window curtains. 394,750; Apr. 28; Serial No. 446,851; published Jan. 27, 1942. Class 42.
Adams, Franklin P., New York, N. Y., to Franklin P. Adams, Westport, Conn. Newspaper column. 157,632; renewed Aug. 15, 1942.
Ajax Fire Engine Works. (See Goldstein, Bernard J.)
Aktiebolaget Addo, Malmo, Sweden. Calculating machines and bookkeeping machines. 394,834; Apr. 28; Serial No. 449,364; published Feb. 17, 1942. Class 26.
Albany Packing Company, Inc., Colonie, N. Y. Meats and meat products—viz., cooked canned beans. 394,776; Apr. 28; Serial No. 448,353; published Feb. 17, 1942. Class 46.
Aldan Rubber Company, Philadelphia, Pa. Rubberized fabrics and other moisture proofed and water-repellent fabrics. 394,830; Apr. 28; Serial No. 449,309; published Feb. 17, 1942. Class 50.
American Air Filter Company, Inc. (See Midwest Steel & Supply Company, Inc., assignor.)
American Beauty Mattress Company, Incorporated. (See National Mattress Co. Inc.)
American Bitumuls Company, Wilmington, Del. Asphalt, asphalt emulsions, asphalt compositions. 394,720; Apr. 28; Serial No. 438,188; published Jan. 27, 1942. Class 12.
American Bitumuls Company, Wilmington, Del., and San Francisco, Calif. Waterproofing, protective, and camouflage paint. 394,823; Apr. 28; Serial No. 449,246; published Feb. 17, 1942. Class 16.
American Hominy Company, Indianapolis, Ind., and Decatur, to Decatur Milling Company, Inc., Decatur, Ill., successor. Wheat flour. 152,340; renewed Feb. 28, 1942.
American Tissue Mills, Holyoke, Mass. Paper and "Cellophane" bags. 394,859; Apr. 28. Class 2.
American Tobacco Company, The, New York, N. Y. Tobacco and cigarettes. 154,866; renewed May 16, 1942.
Ames Safety Envelope Company, The. (See Fitzgerald, John W.)
Arden, Elizabeth, Sales Corporation, New York, N. Y. Traveling bags. 394,838; Apr. 28; Serial No. 449,405; published Feb. 17, 1942. Class 3.
Aronoff, Richling & Fein, New York, N. Y. Ladies' and children's dresses. 394,820; Apr. 28; Serial No. 449,199; published Feb. 3, 1942. Class 39.
Atlantic Refining Company, The, Philadelphia, Pa. Lubricating oils. 394,802; Apr. 28; Serial No. 448,889; published Feb. 17, 1942. Class 15.
Atlantic Refining Company, The, Philadelphia, Pa. Lubricating oils and greases. 394,803; Apr. 28; Serial No. 448,891; published Feb. 17, 1942. Class 15.

Atlantic Refining Company, The, Philadelphia, Pa. Lubricating oils. 394,804–5; Apr. 28; Serial Nos. 448,892–3; published Feb. 17, 1942. Class 15.
Atlantic Refining Company, The, Philadelphia, Pa. Lubricating oils. 394,806; Apr. 28; Serial No. 448,895; published Feb. 17, 1942. Class 15.
Atlantic Refining Company, The, Philadelphia, Pa. Gasoline. 394,807; Apr. 28; Serial No. 448,897; published Feb. 17, 1942. Class 15.
Atlantic Stamping Company, Rochester, N. Y. Metal (galvanized iron or tin) pails, coal hods, dinner pails, etc. 158,886; renewed Sept. 19, 1942.
Azusa Citrus Association, Azusa, Calif. Fresh citrus fruits. 394,844–5; Apr. 28; Serial Nos. 449,711–12; published Feb. 17, 1942. Class 46.
Baker Paint & Varnish Co., Jersey City, N. J. Putty. 158,603; renewed Sept. 12, 1942.
Barber-Colman Company, Rockford, Ill. Air flow control louver units for air conditioning systems. 394,739; Apr. 28; Serial No. 445,314; published Feb. 17, 1942. Class 34.
Barker Chemical Company. (See Lester, Ralph B.)
Barnstead Still and Sterilizer Co., Boston, Mass. Apparatus for sterilizing surgical and dental instruments. 158,604; renewed Sept. 12, 1942.
Barron-Gray Packing Company, San Jose, Calif. Canned pineapple and pear juice. 394,717; Apr. 28; Serial No. 436,917; published Feb. 17, 1942. Class 46.
Basic Vegetable Products Co., Vacaville, Calif. Onion powder. 394,858; Apr. 28. Class 46.
Batlin, L., & Son, Inc., New York, N. Y. Glassware. 394,799; Apr. 28; Serial No. 448,847; published Feb. 17, 1942. Class 33.
Bausch & Lomb Optical Company, Rochester, N. Y. Apparatus for testing, exercising, and training the eyes. 394,841; Apr. 28; Serial No. 449,539; published Feb. 17, 1942. Class 26.
Bellefont Associates. (See Weisberg, Mark.)
Bennett, Fred S., Inc., New York, N. Y. Bleached ducks, twills, drills, etc. 394,866; Apr. 28. Class 42.
Bentkamp, August, New York, N. Y. Ear muffs. 394,771; Apr. 28; Serial No. 448,181; published Feb. 17, 1942. Class 39.
Bohne, Alvin W., doing business as Tapecoat Company, Evanston, Ill. Cotton fabric tape. 394,861; Apr. 28. Class 12.
Boott Mills, Lowell, Mass. Piece goods. 394,856; Apr. 28. Class 42.
Borden Company, The, assignor, by mesne assignments to The Borden Company, New York, N. Y. Evaporated milk. 158,901; renewed Sept. 19, 1942.
Bowser, S. F., & Company, Incorporated, Fort Wayne, Ind. Liquid meters. 394,743; Apr. 28; Serial No. 446,041; published Feb. 17, 1942. Class 26.
Bradley, Milton, Company, Springfield, Mass. Liquid paste, mucilage, rubber cement, etc. 394,849; Apr. 28; Serial No. 449,886; published Feb. 17, 1942. Class 5.
Bradley & Vrooman Company, Chicago, Ill. Ready-mixed paints, varnishes, stains, etc. 158,620; renewed Sept. 12, 1942.
Brewster Sons Company, assignor, by mesne assignments, to Brewster Ideal Chocolate Co., Newark, N. J. Chocolate, cocoa, and candies. 158,905; renewed Sept. 19, 1942.
Bromley, George W., doing business as Bromley Siding Company, Columbus, Ohio. Insulating brick, asbestos siding, and insulating board of wood, paper, or cane material. 394,748; Apr. 28; Serial No. 446,612; published Jan. 20, 1942. Class 12.
Brown, Joseph H., New York, N. Y. Two-pronged hat pin. 394,726; Apr. 28; Serial No. 444,926; published Feb. 17, 1942. Class 40.
Brown, M. Stanley, New York, N. Y. Cotton textile prints in the piece. 394,814; Apr. 28; Serial No. 449,035; published Feb. 3, 1942. Class 42.
Burton-Dixie Corporation. (See Union Bed and Spring Company, assignor.)
Burton-Dixie Corporation, assignor to Burton-Dixie Corporation, Chicago, Ill. Mattresses, cushions, pads, etc. 158,908; renewed Sept. 19, 1942.
Butler & Cosgrave, to Kate Cosgrave and Margaret Duncan Filleman, San Angelo, Tex., successor. Aspirin tablets. 151,440; renewed Feb. 7, 1942.
Byer-Rolnick Co., Garland, Tex. Men's hats. 394,759; Apr. 28; Serial No. 447,781; published Feb. 17, 1942. Class 39.
California Piece Dye Works, Los Angeles, Calif. Table cloths, napkins, towels, etc. 394,762; Apr. 28; Serial No. 447,972; published Jan. 27, 1942. Class 42.
Campe Corporation, The, New York, N. Y. Men's union suits, pants, athletic shirts, women's union suits, vests, panties, etc. 394,749; Apr. 28; Serial No. 446,731; published Feb. 3, 1942. Class 39.
Cantor-Greenspan Co., Inc., New York, N. Y. Spun rayon piece goods. 394,758; Apr. 28; Serial No. 447,555; published Jan. 27, 1942. Class 42.
Cardinal Corporation, The, Evansville, Ind. Castings of transparent plastic material. 394,711; Apr. 28; Serial No. 429,431; published Feb. 17, 1942. Class 50.
Carlough, Louis E. (See Goldstein, Bernard J., assignor.)
Carpenter Steel Company, The, Reading, Pa. Tool steel. 394,831; Apr. 28; Serial No. 449,315; published Feb. 17, 1942. Class 14.
Carter Dry Goods Co., Louisville, Ky. Sheeting, sheets, and pillow cases. 158,915; renewed Sept. 19, 1942.
Carter, Ralph B., Company, New York, N. Y. Diaphragm pumps. 158,199; renewed Aug. 29, 1942.
Casco Products Corporation, Bridgeport, Conn. Abrasive wheels. 394,730; Apr. 28; Serial No. 443,972; published Feb. 17, 1942. Class 4.
Casco Products Corporation, Bridgeport, Conn. Electric heating pads. 394,764; Apr. 28; Serial No. 448,034; published Feb. 17, 1942. Class 44.
Caswell, Geo. W., Co., San Francisco, Calif. Coffee. 394,745; Apr. 28; Serial No. 446,125; published Feb. 17, 1942. Class 46.
Cerophyl Laboratories, Inc., Kansas City, Mo. Vitamin and mineral supplement to human and animal food. 394,731; Apr. 28; Serial No. 444,326; published Feb. 17, 1942. Class 46.
Charlotte Chemical Laboratories, Inc., Charlotte, N. C. Refractory material and for chemical putty. 394,792; Apr. 28; Serial No. 448,671; published Jan. 27, 1942. Class 12.
Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Smoking stands, ash receivers, smoker's sets, etc. 394,727; Apr. 28; Serial No. 443,112; published Feb. 17, 1942. Class 8.
Cheney Brothers, Manchester, Conn., and New York, N. Y. Piece goods to be used in cravats, dresses, shirts, etc. 394,756; Apr. 28; Serial No. 447,226; published Jan. 27, 1942. Class 42.
Chittum, E. Carroll, doing business as E. C. Chittum Co., Baltimore, Md. Game. 394,853; Apr. 28; Serial No. 450,009; published Feb. 17, 1942. Class 22.
City Fuel Company. (See Staples Coal Company.)
Cohn-Hall-Marx Co., New York, N. Y. Cotton piece goods. 157,656; renewed Aug. 15, 1942.
Cohn-Hall-Marx Co., New York, N. Y. Cotton, rayon, acetate, and/or silk piece goods, and combinations thereof. 394,815; Apr. 28; Serial No. 449,038; published Jan. 27, 1942. Class 42.
Cohn-Hall-Marx Co., New York, N. Y. Cotton, rayon, acetate, and/or silk piece goods, and combinations thereof. 394,816; Apr. 28; Serial No. 449,039; published Feb. 3, 1942. Class 42.
Colotyle Corporation, Seattle, Wash. Presdwood board. 394,863; Apr. 28. Class 12.
Comfy Manufacturing Company, The, Baltimore, Md. Furniture slip covers. 394,732–3; Apr. 28; Serial Nos. 444,634–5; published Feb. 17, 1942. Class 32.
Compania Licorera Matanzas S. A., San Cristobal y San Andres, Matanzas, Cuba. Brandies, rums, alcohol, and denaturized alcohol for motors. 394,854; Apr. 28; Serial No. 1,328 (Inter-Am. Series); published Apr. 28, 1942. Class 49.
Consolidated Red Cedar Shingle Association of British Columbia, Vancouver, British Columbia, Canada. Red cedar shingles. 394,744; Apr. 28; Serial No. 446,099; published Jan. 27, 1942. Class 12.
Constructions et Applications Radio-Electrolytiques, Paris, France. Apparatus for electrolytically preparing an antiseptic solution. 394,710; Apr. 28; Serial No. 428,278; published Feb. 17, 1942. Class 44.
Cooper's, Incorporated, Kenosha, Wis. Men's and boys' underwear. 394,741; Apr. 28; Serial No. 445,840; published Feb. 3, 1942. Class 39.
Cosgrave, Kate, et al. (See Butler & Cosgrave.)
Covina Orange Growers Association, assignor to Covina Orange Growers Association, Covina, Calif. Oranges. 155,657; renewed June 6, 1942.
Craddock Terry Company, assignor to Craddock-Terry Shoe Corp., Lynchburg, Va. Women's leather shoes. 158,924; renewed Sept. 19, 1942.
Creed & Stewart, Ltd., Aurora, Ill. Packages containing cut-out and prepared materials for making lounging slippers, etc. 394,782; Apr. 28; Serial No. 448,469; published Feb. 17, 1942. Class 40.
Crown Weaving Mills, Inc., Los Angeles, Calif. Woven piece goods. 394,777; Apr. 28; Serial No. 448,360; published Jan. 27, 1942. Class 42.
Decatur Milling Company, Inc. (See American Hominy Company.)
Dewey Brothers Company, The, Blanchester, Ohio. Corn distillers dried solubles, for poultry and livestock feed. 394,835; Apr. 28; Serial No. 449,367; published Feb. 17, 1942. Class 46.
Dick, A. B., Company, assignor to A. B. Dick Company, Chicago, Ill. Ink, particularly ink adapted for use on stencil duplicators. 155,220; renewed May 23, 1942.
Dombrowsky, Max, New York, N. Y. Neckties, cravats, and handkerchiefs. 394,781; Apr. 28; Serial No. 448,449; published Feb. 17, 1942. Class 39.
Doughten Seed Company, The, Jersey City, N. J. Grass and field seeds. 155,671–2; renewed June 6, 1942.
Eagle Paint & Varnish Co., Pittsburgh, Pa. Varnishes. 153,709; renewed Mar. 28, 1942.
Ederer, Charles, New York, N. Y. Preparation for cleaning the type of typewriters and office machines. 394,783; Apr. 28; Serial No. 448,471; published Feb. 17, 1942. Class 4.
Falls Company, The, Norwich, Conn. Cotton awning fabrics and cloths. 394,737; Apr. 28; Serial No. 445,046; published Jan. 27, 1942. Class 42.

Filleman, Margaret Duncan, et al. (See Butler & Cosgrave.)
Fisher Governor Company, Marshalltown, Iowa. Spring controlled valves. 394,809; Apr. 28; Serial No. 448,938; published Feb. 17, 1942. Class 13.
Fitzgerald, John W., doing business as The Ames Safety Envelope Company, Boston, to Ames Safety Envelope Company, Somerville, Mass., successor. Envelopes, file folders, and file pockets. 158,217; renewed Aug. 29, 1942.
Freydberg Bros., Inc., Stamford, Conn., and New York, N. Y. Wire for tying packages, etc. 394,778; Apr. 28; Serial No. 448,381; published Feb. 17, 1942. Class 7.
Fromm Bros., Inc., Hamburg, Wis. Garments made of fur—namely, coats, jackets, capes, etc. 394,735; Apr. 28; Serial No. 444,867; published Feb. 17, 1942. Class 39.
Galena-Signal Oil Co., Franklin, Pa., assignor to Valvoline Oil Company, Cincinnati, Ohio, and New York, N. Y. Illuminating and lubricating oils and greases. 158,679; renewed Sept. 12, 1942.
Garden City Plating & Mfg. Co., Inc., Chicago, Ill. Lighting reflectors for fluorescent lamps. 394,728; Apr. 28; Serial No. 443,228; published Feb. 17, 1942. Class 34.
Gary, J. H., doing business as J. H. Gary & Co., San Francisco, Calif. Prepared foods. 394,871; Apr. 28. Class 46.
General Abrasive Company, Inc., Niagara Falls, N. Y. Corundum, emery, and silicon carbide. 157,673; renewed Aug. 15, 1942.
Gerson, Sam, Philadelphia, Pa. Men's suits, vests, pants, etc. 394,862; Apr. 28. Class 39.
Gesteira, Dr. Jeronymo, Para, Brazil, assignor to Dr. J. Gesteira, Inc., Detroit, Mich. Tonic. 156,261; renewed June 20, 1942.
Giant Grip Mfg. Co., Oshkosh, Wis. Horseshoes. 158,963; renewed Sept. 19, 1942.
Gilbert, William L., Clock Corporation, Winsted, Conn. Clocks. 394,821; Apr. 28; Serial No. 449,230; published Feb. 17, 1942. Class 27.
Globe Refining Company, The, Cleveland, Ohio. Lubricating oil and grease. 158,684; renewed Sept. 12, 1942.
Goldstein, Bernard J., doing business under the name of Ajax Fire Engine Works, Brooklyn, assignor to Louis E. Carlough, doing business as The Safety Fire Extinguisher Co., New York, N. Y. Fire extinguishers and chemical fire engines. 156,871; renewed July 18, 1942.
Goodrich, B. F., Company, The, New York, N. Y. Belts for driving automobile fans and other machinery. 154,036; renewed Apr. 4, 1942.
Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Fluid conducting hose composed of fabric and rubber. 394,824; Apr. 28; Serial No. 449,263; published Feb. 17, 1942. Class 35.
Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Heels, soles, and half soles of rubber. 394,833; Apr. 28; Serial No. 449,343; published Feb. 17, 1942. Class 39.
Gotham Sales Company, Inc., New York, N. Y. Prophylactic rubber articles. 394,772; Apr. 28; Serial No. 448,192; published Feb. 17, 1942. Class 44.
Grant, W. T., Company, to W. T. Grant Company, New York, N. Y. Infants' hosiery. 158,968; renewed Sept. 19, 1942.
Guarantee Specialty Manufacturing Co., Cleveland, Ohio. Venetian blind assemblies and slats, head rails, bottom rails, and tilt rails therefor. 394,851; Apr. 28; Serial No. 449,901; published Feb. 17, 1942. Class 32.
Guarantee Specialty Manufacturing Co., The, Cleveland, Ohio. Venetian blind cords. 394,852; Apr. 28; Serial No. 449,902; published Feb. 17, 1942. Class 7.
Gutlin, H. A., & Co., New York, N. Y. Fabrics in the piece of cotton, rayon and combinations thereof. 394,867; Apr. 28. Class 42.
Hamwi, Ernest A., doing business as Western Cone Company, St. Louis, Mo. Ice cream cones. 394,825; Apr. 28; Serial No. 449,265; published Feb. 17, 1942. Class 46.
Harris, A., & Co., Dallas, Tex. Hats. 394,810; Apr. 28; Serial No. 448,941; published Feb. 17, 1942. Class 39.
Heberlein & Co. A. G., Wattwil, Switzerland. Threads and yarns. 154,044; renewed Apr. 4, 1942.
Heberlein & Co. A. G., Wattwil, Switzerland. Piece goods. 157,517; renewed Aug. 8, 1942.
Heberlein & Co. A. G., Wattwil and Rietwies, to Heberlein & Co. A. G., Wattwil, Switzerland. Cotton fabrics in pieces. 158,699; renewed Sept. 12, 1942.
Herman, John C., & Co., New Cumberland, Pa. Chewing and smoking tobacco. 394,826–8; Apr. 28; Serial Nos. 449,275–7; published Feb. 17, 1942. Class 17.
Hess Warming & Ventilating Company, Chicago, Ill. Medicine cabinets. 157,682; renewed Aug. 15, 1942.
Hollins, William, & Company, Limited, London and Mansfield, to William Hollins & Company, Limited, Nottingham, England. Clothing. 155,717; renewed June 6, 1942.
Horton Manufacturing Company, The, Bristol, Conn. Steels shafts for golf clubs. 157,980; renewed Aug. 22, 1942.
Hudor Co., The. (See Rogers, Samuel C., and James S. Pearson.)
Hudor Co., The, Buffalo, N. Y. Ginger ale, root beer, sarsaparilla, etc. 157,981; renewed Aug. 22, 1942.
Inertol Company, Inc., Newark, N. J. Non-drying paint. 394,796; Apr. 28; Serial No. 448,731; published Feb. 17, 1942. Class 16.
International Latex Corporation, New York, N. Y. Grouping of empty receptacles. 394,765; Apr. 28; Serial No. 448,081; published Feb. 17, 1942. Class 2.
Jackson-Wheeler Metals Service, Inc., Brooklyn, N. Y. Bearing metal alloys, babbitt metals, and white metal alloys. 394,839; Apr. 28; Serial No. 449,418; published Feb. 17, 1942. Class 14.
Jarvinen, Vilho O., New York, N. Y. Cheese. 394,714; Apr. 28; Serial No. 434,330; published Aug. 19, 1941. Class 46.
Jensen, Georg, Inc., New York, N. Y. Flatware and hollowware. 394,832; Apr. 28; Serial No. 449,323; published Feb. 17, 1942. Class 28.
Jolles, Ida, doing business as J. Jolles Studios, New York, N. Y. Ground fabric in the piece. 394,870; Apr. 28. Class 42.
Justi, H. D., & Son, Inc., Philadelphia, Pa. Materials and kits of materials for forming intra oral dental impressions. 394,842; Apr. 28; Serial No. 449,613; published Feb. 17, 1942. Class 44.
Kearney & Trecker Corporation, West Allis, Wis. Milling machines. 394,788; Apr. 28; Serial No. 448,563; published Apr. 28, 1942. Class 23.
Kearney & Trecker Corporation, West Allis, Wis. Milling machines. 394,864–6; Apr. 28. Class 23.
Kee Lox Manufacturing Company, Rochester, N. Y. Carbon paper and typewriter ribbons. 158,718; renewed Sept. 12, 1942.
Kessler, Schwarts & Co., Inc., New York, N. Y. Women's and misses' coats, suits, and equestrian clothes. 394,806; Apr. 28; Serial No. 448,866; published Feb. 17, 1942. Class 39.
Kofka, Albert M., New York, N. Y. Festoons and valances used with draperies. 394,773; Apr. 28; Serial No. 448,194; published Jan. 27, 1942. Class 42.
Kops Bros., assignor to Kops Brothers, Inc., New York, N. Y. Corsets, brassières, corset covers, etc. 154,601; renewed Apr. 18, 1942.
Kroger Grocery & Baking Company, The, Cincinnati, Ohio. Clothes line. 394,847; Apr. 28; Serial No. 449,861; published Feb. 17, 1942. Class 7.
Kroger Grocery & Baking Company, The, Cincinnati, Ohio. Jar rings. 394,848; Apr. 28; Serial No. 449,863; published Feb. 17, 1942. Class 35.
Laboratory Equipment Corporation, Benton Harbor, Mich. Scientific laboratory combustion furnaces, cabinets, various glass and pyrex parts, etc. 394,757; Apr. 28; Serial No. 447,463; published Feb. 17, 1942. Class 26.
La Brea Securities Co., doing business as Rosemary Packing Company, Los Angeles and Santa Maria, Calif. Fresh vegetables—namely, broccoli, cauliflower, chicory, carrots, anise, etc. 394,793; Apr. 28; Serial No. 448,698; published Feb. 17, 1942. Class 46.
Lambert Pharmacal Company, Wilmington, Del. Saponaceous paste known as shaving cream. 394,811; Apr. 28; Serial No. 448,975; published Feb. 17, 1942. Class 4.
Lawson Coffee Co., Inc., Sumter, S. C. Coffee. 394,721; Apr. 28; Serial No. 438,951; published Feb. 17, 1942. Class 46.
Lawson, F. H., Company, The, Cincinnati, Ohio. Tinware, galvanized ware, and sheetmetal products. 153,481; renewed Mar. 21, 1942.
Lester, Ralph B., doing business as Barker Chemical Company, New York, N. Y. Cleaning material for polishing marble, etc. 394,760; Apr. 28; Serial No. 447,883; published Feb. 17, 1942. Class 4.
Lincoln and Ulmer, to Lincoln & Ulmer, Inc., New York, N. Y., successor. Cigars, cigarettes, smoking tobaccos, etc. 154,083; renewed Apr. 4, 1942.
Lincoln Leather Goods Co. Inc., New York, N. Y. Handbags. 394,836; Apr. 28; Serial No. 449,380; published Feb. 17, 1942. Class 3.
Linen Thread Co., Inc., The, New York, N. Y. Nets used in the games of tennis, badminton, water polo, etc. 394,740; Apr. 28; Serial No. 445,660; published Feb. 17, 1942. Class 22.
Linton & Scott, New York, assignor to Stevens & Thompson Paper Company, Greenwich, N. Y. Toilet paper. 156,748; renewed July 11, 1942.
Little Falls Felt Shoe Company, Little Falls, N. Y. Felt shoes and slippers. 156,001; renewed June 13, 1942.
Lockport Cotton Batting Co., Lockport, N. Y. Wool batting or wool batts. 394,767; Apr. 28; Serial No. 448,152; published Feb. 17, 1942. Class 1.
Lockport Cotton Batting Co., Lockport, N. Y. Wool batting or wool batts. 394,768; Apr. 28; Serial No. 448,153; published Feb. 17, 1942. Class 1.
Lowenfels, Frederick F., & Son, New York, N. Y. Butter. 394,726; Apr. 28; Serial No. 442,045; published Feb. 17, 1942. Class 46.
Mallinckrodt Chemical Works, St. Louis, Mo. Developer for photographic purposes. 158,010; renewed Aug. 22, 1942.
Manhattan Terrazzo Brass Strip Co., Inc., New York, N. Y. Dividing strips or other formed pieces used in or on terrazzo, etc., floors, or walls. 394,808; Apr. 28; Serial No. 448,915; published Feb. 3, 1942. Class 12.

Marine Products Company, San Diego, Calif. Fresh frozen shrimp. 394,818, Apr. 28; Serial No. 449,079; published Feb. 17, 1942. Class 46.
Marlboro Shirt Co., Inc., Baltimore, Md. Dress and sport shirts, jackets, and coats for men and boys. 394,829; Apr. 28; Serial No. 449,286; published Feb. 3, 1942. Class 39.
Marshall Field & Company, Chicago, Ill. Pastry canvas. 394,789; Apr. 28; Serial No. 448,609; published Jan. 27, 1942. Class 42.
Matouk, John Inc., New York, N. Y. Textile fabrics, bed sheets, pillow cases, etc. 394,868; Apr. 28. Class 42.
Mazo, I. Joseph, doing business as Mazo Brothers Company, Washington, D. C. Canned fruits and vegetables, canned soups, glassed vinegar, canned fish, etc. 394,722; Apr. 28. Serial No. 439,253; published Feb. 17, 1942. Class 46.
McDougall-Butler Co., Inc., Buffalo, N. Y. Paints, colors, varnishes, etc. 159,028; renewed Sept. 19, 1942.
Midwest-Radiant Corporation, St. Louis, Mo. Processed coal fuel. 394,797; Apr. 28; Serial No. 448,765; published Feb. 17, 1942. Class 1.
Midwest Steel & Supply Company, Inc., New York, N. Y., assignor to American Air Filter Company, Inc., Louisville, Ky. Viscose. 155,487; renewed May 30, 1942.
Modern Specialties, Inc., Atlanta, Ga. Receptacles. 394,747; Apr. 28; Serial No. 446,368; published Feb. 17, 1942. Class 2.
Moore, Benjamin, & Co., Jersey City, N. J., and Brooklyn, N. Y., to Benjamin Moore & Co., Jersey City, N. J., and New York, N. Y. Paints, stains, paint enamels, etc. 159,041; renewed Sept. 19, 1942.
Morse, Frank O., Englewood, Colo. Dry dog food. 394,869; Apr. 28. Class 46.
National Mattress Co. Inc., Lynchburg, Va., by change of name to American Beauty Mattress Company, Incorporated. Beds, bed springs, cots, etc. 159,046; renewed Sept. 19, 1942.
National Tinsel Manufacturing Company, Manitowoc, Wis. Flat ribbon-like textile tape used as cordage. 394,787; Apr. 28; Serial No. 448,516; published Feb. 17, 1942. Class 7.
Nevins Fruit Co., Inc., New York, N. Y. Fresh citrus fruits—namely, oranges, grapefruit, and tangerines. 394,751; Apr. 28; Serial No. 446,887; published Feb. 17, 1942. Class 46.
Newman, Rosser J., doing business as The Del-Mar Company, Dallas, Tex. Condiment sauce preparation for flavoring roasts, chops, fish, etc. 394,729; Apr. 28; Serial No. 443,852; published Feb. 17, 1942. Class 46.
Nichols & Stone Company, Gardner, Mass. Chairs. 159,051; renewed Sept. 19, 1942.
Norvic Shoe Company, Limited, Norwich, England. Boots and shoes. 394,746; Apr. 28; Serial No. 446,277; published Feb. 17, 1942. Class 39.
Old Colony Paint & Chemical Co., Los Angeles, Calif. Quick drying enamel. 394,775; Apr. 28; Serial No. 448,299; published Feb. 17, 1942. Class 16.
Old Mission Portland Cement Company, San Francisco and San Juan Bautista, assignor to Pacific Portland Cement Company, San Francisco, Calif. Portland cement. 156,032; renewed June 13, 1942.
Ondolea Company, The. (See Stein, Hermann.)
O'Rourke Eubanks Hat Co., Inc., San Francisco, Calif. Men's hats. 158,047; renewed Aug. 22, 1942.
Owl Drug Company, The, assignor to The Owl Drug Co., San Francisco, Calif. Medicinal and pharmaceutical preparations. 156,380; renewed June 20, 1942.
Pacific Portland Cement Company. (See Old Mission Portland Cement Company, assignor.)
Parfums Schiaparelli, Inc., New York, N. Y. Soaps. 394,817; Apr. 28; Serial No. 449,059; published Feb. 17, 1942. Class 4.
Parsons Paper Company, Holyoke, Mass. Ledger and index papers. 394,769; Apr. 28; Serial No. 448,166; published Feb. 17, 1942. Class 37.
Peacock Corporation, The, Kenosha, Wis. Onion sets, garden seeds, bulbs, etc. 394,718–19; Apr. 28; Serial Nos. 437,966–7; published Feb. 17, 1942. Class 1.
Peacock Laboratories, Inc., Philadelphia, Pa. Mirrors. 394,837; Apr. 28; Serial No. 449,394; published Feb. 17, 1942. Class 32.
Pearson, James S. (See Rogers, Samuel C., and James S. Pearson.)
Philco Corporation, Philadelphia, Pa. Automobile radio locks, cabinet locks, and window locks. 394,819; Apr. 28; Serial No. 449,153; published Feb. 17, 1942. Class 25.
Pittsburgh Plate Glass Company, Pittsburgh, Pa. Store front constructions. 394,734; Apr. 28; Serial No. 444,657; published Jan. 27, 1942. Class 12.
Plastergon Wall Board Company, Buffalo, N. Y. Mineral wool composition. 394,774; Apr. 28; Serial No. 448,229; published Jan. 27, 1942. Class 12.
Potthast, Frank J., Baltimore, Md. Dining room, living room, and bed room furniture. 394,738; Apr. 28; Serial No. 445,102; published Feb. 17, 1942. Class 32.
Quaker Rubber Corporation, Philadelphia, Pa. Belting for power transmission, elevating, and conveying purposes, air brake hose, etc. 394,790–1; Apr. 28; Serial Nos. 448,651–2; published Feb. 17, 1942. Class 35.
Quaker Stretcher Company, Kenosha, Wis. Curtain stretchers. 394,770; Apr. 28; Serial No. 448,170; published Feb. 17, 1942. Class 50.
Revere Copper and Brass Incorporated, New York, N. Y. Roofing copper and copper in sheet form. 394,724; Apr. 28; Serial No. 439,417; published Feb. 17, 1942. Class 14.
Rhode Island Laboratories, Incorporated, West Warwick, R. I. Luminescent paints and varnishes. 394,843; Apr. 28; Serial No. 449,629; published Feb. 17, 1942. Class 16.
Rinshed-Mason Company, Detroit, Mich. Pyroxylin glazing putty. 394,794; Apr. 28; Serial No. 448,707; published Feb. 17, 1942. Class 16.
Roethlisberger & Co., Inc., New York, N. Y. Cheese. 394,798; Apr. 28; Serial No. 448,803; published Feb. 17, 1942. Class 46.
Rogers, Samuel C., and James S. Pearson, assignors to The Hudor Co., Buffalo, N. Y. Mineral waters and other non-alcoholic drinks. 21,213; re-renewed June 21, 1942.
Rosemary Packing Company. (See La Brea Securities Co.)
Rutland Fire Clay Co., Rutland, Vt. Stove polish, metal polish, enamel cleaner, etc. 157,758; renewed Aug. 15, 1942.
Sacks, Joseph A. (See Whitehead, Daisy, Knitting Co.)
Safety Fire Extinguisher Co. (See Goldstein, Bernard J.)
St. Louis Brass Mfg Co., St. Louis, Mo. Electric-lighting fixtures. 158,548; renewed Sept. 5, 1942.
Sanford, David E., doing business as Disposalator Mfg. Co., Los Angeles, Calif. Receptacles. 394,755; Apr. 28; Serial No. 447,193; published Feb. 17, 1942. Class 2.
Sayco Doll Corporation, New York, N. Y. Doll. 394,840; Apr. 28; Serial No. 449,436; published Feb. 17, 1942. Class 22.
Schluderberg, Wm. T. J. Kurdle Co., The, Baltimore, Md. Butter, lard, hams, etc. 154,687; renewed Apr. 18, 1942.
Scribner's, Charles, Sons, New York, N. Y. Monthly publications. 159,093; renewed Sept. 19, 1942.
Select Sportswear, Inc., New York, N. Y. Ladies' and misses' knitted sport sweaters and two piece knitted dresses. 394,812; Apr. 28; Serial No. 448,988; published Feb. 3, 1942. Class 39.
Seneca Knitting Company. (See Smith, Caleb.)
Silson, Inc., New York, N. Y. Necklaces and bracelets, finger rings, earrings, jewelry clips, etc. 394,713; Apr. 28; Serial No. 433,634; published Feb. 17, 1942. Class 28.
Sinclair Manufacturing Company, The, Toledo, Ohio. Chemical cleaner for ceramic materials. 157,388; renewed Aug. 1, 1942.
Skinner, William, & Sons, Holyoke, Mass., and New York, N. Y. Silk, rayon, and cotton piece goods and combinations thereof. 394,813; Apr. 28; Serial No. 449,023; published Feb. 3, 1942. Class 42.
Smith, Caleb, doing business as Seneca Knitting Company, assignor to Seneca Knitting Mills, Inc., Seneca Falls, N. Y. Hosiery. 159,104; renewed Sept. 19, 1942.
Socony-Vacuum Oil Company, Incorporated, New York, N. L. Lubricating greases. 394,784; Apr. 28; Serial No. 448,479; published Jan. 27, 1942. Class 15.
Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Insulating oil for electric cables. 394,785; Apr. 28; Serial No. 448,481; published Jan. 27, 1942. Class 15.
Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Lubricating greases. 394,786; Apr. 28; Serial No. 448,482; published Jan. 27, 1942. Class 15.
Spartan Sporting Goods Company, Chicago, Ill. Sporting goods—namely, footballs, basketballs, volley balls, baseball gloves, etc. 394,761; Apr. 28; Serial No. 447,960; published Feb. 17, 1942. Class 22.
Spokesman Publishing Company, The, Cincinnati, Ohio. Journal. 159,107; renewed Sept. 19, 1942.
Standard Brands Incorporated, New York, N. Y. Yeast. 934,857; Apr. 28. Class 46.
Staples Coal Company, doing business as City Fuel Company, Boston, Mass. Coal. 394,822; Apr. 28; Serial No. 449,242; published Feb. 17, 1942. Class 1.
Stein, A., & Company, Chicago, Ill. Garters, suspenders, and belts. 394,801; Apr. 28; Serial No. 448,880; published Feb. 17, 1942. Class 39.
Stein, Hermann, doing business as The Ondolea Company, New York, N. Y. Hair dressing (permanent wave) kits. 394,795; Apr. 28; Serial No. 448,711; published Feb. 17, 1942. Class 44.
Stevens & Thompson Paper Company. (See Linton & Scott, assignor.)
Strong & Fisher Limited, Rushden, England. Leather. 394,780; Apr. 28; Serial No. 448,442; published Feb. 17, 1942. Class 1.
Tapecoat Company. (See Bohne, Alvin W.)
Templeton's Limited, Toronto, Ontario, Canada. Medicine for asthma. 156,067; renewed June 13, 1942.
Tharand, Justin, Inc., New York, N. Y. Ceramic table ware. 394,742; Apr. 28; Serial No. 446,007; published Feb. 17, 1942. Class 30.
Thompson Company, Thompson, Ga. Rayon fabric in the piece. 394,753; Apr. 28; Serial No. 447,007; published Nov. 4, 1941. Class 42.

Tolerton & Warfield Company, Sioux City, Iowa. Peanut butter, cane and maple syrup, honey, breakfast cereals, etc. 394,716; Apr. 28; Serial No. 436,745; published Feb. 17, 1942. Class 46.

Turner & Walls, assignor, by mesne assignments, to Albert H. Vandam Co., Inc., New York, N. Y. Wool and artificial-silk piece goods. 158,837; renewed Sept. 12, 1942.

Union Bed and Spring Company, assignor, by mesne assignments, to Burton-Dixie Corporation, Chicago, Ill. Bed springs. 159,134; renewed Sept. 19, 1942.

United Metals Refining Company, Detroit, Mich. Nonferrous metals and metal alloys. 394,712; Apr. 28; Serial No. 432,054; published Feb. 17, 1942. Class 14.

United Paper Company, Atlanta, Ga., assignor to United Paper Company, Tampa, Fla. Fruit and vegetable wrappers. 155,106; renewed Feb. 16, 1942.

Valvoline Oil Company. (See Galena-Signal Oil Co., assignor.)

Vandam, Albert H., Co., Inc. (See Turner & Walls, assignor.)

Vandegrift, William B., Seattle, Wash. Wind propelled ornaments used on automobiles, trucks, etc. 394,754; Apr. 28; Serial No. 447,036; published Feb. 17, 1942. Class 19.

Viviano, V., & Bros. Macaroni Manufacturing Co. Inc., St. Louis, Mo. Alimentary pastes. 394,855; Apr. 28. Class 46.

Walker, James, & Co., Limited, Woking, England. Cotton, hemp, asbestos flax or metallic foil machinery packing. 394,763; Apr. 28; Serial No. 448,022; published Feb. 17, 1942. Class 35.

Waronock and Ansen, New York, N. Y. Cameras and binoculars, goggles, sun glasses, field glasses, etc. 394,715; Apr. 28; Serial No. 435,332; published Feb. 17, 1942. Class 26.

Weisberg, Mark, doing business as Bellefont Associates, Cranston, R. I. Liquid coffee and coffee syrup. 394,860; Apr. 28. Class 46.

Welch, C. S., Company, The, New York, N. Y. Detergent liquid. 394,766; Apr. 28; Serial No. 448,121; published Feb. 17, 1942. Class 4.

Wells-Lamont-Smith Corporation, Chicago, Ill. Work gloves. 394,723; Apr. 28; Serial No. 439,377; published Feb. 17, 1942. Class 39.

Wertz, Louis S., Mfg. Co., Cleveland, Ohio. Finely divided material for incorporation in hydraulic cement mixes to improve the properties thereof. 394,752; Apr. 28; Serial No. 446,934; published Jan. 27, 1942. Class 12.

Western Cone Company. (See Hamwi, Ernest A.)

Western Grocer Company, Marshalltown, Iowa. Foods. 154,734; renewed Apr. 18, 1942.

Whitehead, Daisy, Knitting Co., to Joseph A. Sacks, doing business as Daisy Whitehead Knitting Co., New York, N. Y., successor. Hosiery. 158,928; renewed Sept. 19, 1942.

Wool Novelty Co. Inc., New York, N. L. Knitting bags. 394,846; Apr. 28; Serial No. 449,817; published Feb. 17, 1942. Class 3.

Yohanan, Daniel I., Denair, Calif. Canned soup and a preparation of milk and vegetable juices. 394,779; Apr. 28; Serial No. 448,403; published Feb. 17, 1942. Class 46.

Zenith Powder Company, Oregon City, Oreg. High explosives. 394,725; Apr. 28; Serial No. 441,498; published Feb. 17, 1942. Class 9.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Staples Coal Company. 394,822; Apr. 28; Serial No. 449,242; published Feb. 17, 1942.

Coal fuel, Processed. Midwest-Radiant Corporation. 394,797; Apr. 28; Serial No. 448,765; published Feb. 17, 1942.

Leather. Strong & Fisher Limited. 394,780; Apr. 28; Serial No. 448,442; published Feb. 17, 1942.

Onion sets, garden seeds, bulbs, etc. Peacock Corporation. 394,718–19; Apr. 28; Serial Nos. 437,960–7; published Feb. 17, 1942.

Seeds, Grass and field. Doughten Seed Company. 155,671–2; renewed June 6, 1942.

Wool batting or wool batts. Lockport Cotton Batting Co. 394,767; Apr. 28; Serial No. 448,152; published Feb. 17, 1942.

Wool batting or wool batts. Lockport Cotton Batting Co. 394,768; Apr. 28; Serial No. 448,155; published Feb. 17, 1942.

CLASS 2

Bags, paper and "Cellophane." American Tissue Mills. 394,859; Apr. 28.

Pails, coal hods, dinner pails, etc., Metal (galvanized iron or tin). Atlantic Stamping Company. 158,886; renewed Sept. 19, 1942.

Receptacles. Modern Specialties, Inc. 394,747; Apr. 28; Serial No. 446,368; published Feb. 17, 1942.

Recpetacles. D. E. Sanford. 394,755; Apr. 28; Serial No. 447,193; published Feb. 17, 1942.

Receptacles, Grouping of empty. International Latex Corporation. 394,765; Apr. 28; Serial No. 448,081; published Feb. 17, 1942.

Tinware, galvanized ware, and sheet metal products. F. H. Lawson Company. 153,481; renewed Mar. 21, 1942.

CLASS 3

Bags, Knitting. Wool Novelty Co. Inc. 394,846; Apr. 28; Serial No. 449,817; published Feb. 17, 1942.

Bags, Traveling. Elizabeth Arden Sales Corporation. 394,838; Apr. 28; Serial No. 449,405; published Feb. 17, 1942.

Handbags. Lincoln Leather Goods Co. Inc. 394,836; Apr. 28; Serial No. 449,380; published Feb. 17, 1942.

Horseshoes. Giant Grip Mfg. Co. 158,963; renewed Sept. 19, 1942.

CLASS 4

Abrasive wheels. Casco Products Corporation. 394,730; Apr. 28; Serial No. 443,972; published Feb. 17, 1942.

Cleaning material for polishing marble, etc. R. B. Lester. 394,760; Apr. 28; Serial No. 447,883; published Feb. 17, 1942.

Corundum, emery, and silicon carbide. General Abrasive Company. 157,673; renewed Aug. 15, 1942.

Detergent liquid. C. S. Welch Company. 394,766; Apr. 28; Serial No. 448,121; published Feb. 17, 1942.

Polish, metal polish, enamel cleaner, etc., Stove. Rutland Fire Clay Co. 157,758; renewed Aug. 15, 1942.

Preparation for cleaning the type of typewriters, and office machines. C. Ederer. 394,783; Apr. 28; Serial No. 448,471; published Feb. 17, 1942.

Saponaceous paste known as shaving cream. Lambert Pharmacal Company. 394,811; Apr. 28; Serial No. 448,975; published Feb. 17, 1942.

Soaps. Parfums Schiaparelli, Inc. 394,817; Apr. 28; Serial No. 449,059; published Feb. 17, 1942.

CLASS 5

Paste, mucilage, rubber cement, etc., Liquid. Milton Bradley Company. 394,849; Apr. 28; Serial No. 449,886; published Feb. 17, 1942.

CLASS 6

Aspirin tablets. Butler & Cosgrave. 151,440; renewed Feb. 7, 1942.

Chemical cleaner for ceramic materials. Sinclair Manufacturing Company. 157,388; renewed Aug. 1, 1942.

Developer for photographic purposes. Mallinckrodt Chemical Works. 158,010; renewed Aug. 22, 1942.

Medicinal and pharmaceutical preparations. Owl Drug Company. 156,380; renewed June 20, 1942.

Medicine for asthma. Templeton's Limited. 156,067; renewed June 13, 1942.

Tonic. Dr. Jeronymo Gesteira. 156,261; renewed June 20, 1942.

Viscose. Midwest Steel & Supply Company. 155,487; renewed May 30, 1942.

CLASS 7

Cords, Venetian blind. Guarantee Specialty Manufacturing Co. 394,852; Apr. 28; Serial No. 449,902; published Feb. 17, 1942.

Line, Clothes. Kroger Grocery & Baking Company. 394,847; Apr. 28; Serial No. 449,861; published Feb. 17, 1942.

Tape used as cordage, Flat textile. National Tinsel Manufacturing Company. 394,787; Apr. 28; Serial No. 448,516; published Feb. 17, 1942.

Wire for tying packages, etc. Freydberg Bros., Inc. 394,778; Apr. 28; Serial No. 448,381; published Feb. 17, 1942.

CLASS 8

Smoking stands, ash receivers, smoker's sets, etc. Chase Brass & Copper Co. Incorporated. 394,727; Apr. 28; Serial No. 443,112; published Feb. 17, 1942.

CLASS 9

Explosives, High. Zenith Powder Company. 394,725; Apr. 28; Serial No. 441,498; published Feb. 17, 1942.

CLASS 11

Carbon paper and typewriter ribbons. Kee Lox Manufacturing Company. 158,718; renewed Sept. 12, 1942.

Ink, particularly ink adapted for use on stencil duplicators. A. B. Dick Company. 155,220; renewed May 23, 1942.

CLASS 12

Asphalt, asphalt emulsions, asphalt compositions. American Bitumuls Company. 394,720; Apr. 28; Serial No. 438,188; published Jan. 27, 1942.

Board, Presdwood. Colotyle Corporation. 394,863; Apr 28.

Brick, asbestos siding, and insulating board of wood, paper, or cane material, Insulating. G. W. Bromely. 394,748; Apr. 28; Serial No. 446,612; published Jan. 20, 1942.

Cement, Portland. Old Mission Portland Cement Company. 156,032; renewed June 13, 1942.

Material for incorporation in hydraulic cement mixes to improve the properties thereof, Finely divided. Louis S. Wertz Mfg. Co. 394,752; Apr. 28; Serial No. 446,934; published Jan. 27, 1942.

Mineral wool composition. Plastergon Wall Board Company. 394,774; Apr. 28; Serial No. 448,229; published Jan. 27, 1942.

Refractory material and for chemical putty. Charlotte Chemical Laboratories, Inc. 394,792; Apr. 28; Serial No. 448,671; published Jan. 27, 1942.

Shingles, Red cedar. Consolidated Red Cedar Shingle Association of British Columbia. 394,744; Apr. 28; Serial No. 446,099; published Jan. 27, 1942.

Store front constructions. Pittsburgh Plate Glass Company. 394,734; Apr. 28; Serial No. 444,657; published Jan. 27, 1942.

Strips or other formed pieces used in or on terrazzo, etc., floors, or walls, Dividing. Manhattan Terrazzo Brass Strip Co. 394,808; Apr. 28; Serial No. 448,915; published Feb. 3, 1942.

Tape, Cotton fabric. A. W. Bohne. 394,861; Apr. 28.

CLASS 13

Valves, Spring controlled. Fisher Governor Company. 394,809; Apr. 28; Serial No. 448,938; published Feb. 17, 1942.

CLASS 14

Bearing metal alloys, Babbitt metals, and white metal alloys. Jackson-Wheeler Metals Service, Inc. 394,839; Apr. 28; Serial No. 449,418; published Feb. 17, 1942.

Metals and metal alloys, Non-ferrous. United Metals Refining Company. 394,712; Apr. 28; Serial No. 432,054; published Feb. 17, 1942.

Roofing copper and copper in sheet form. Revere Copper and Brass Incorporated. 394,724; Apr. 28; Serial No. 439,417; published Feb. 17, 1942.

Steel, Tool. Carpenter Steel Company. 394,831; Apr. 28; Serial No. 449,315; published Feb. 17, 1942.

CLASS 15

Gasoline. Atlantic Refining Company. 394,807; Apr. 28; Serial No. 448,897; published Feb. 17, 1942.

Greases, Lubricating. Socony-Vacuum Oil Company. 394,784; Apr. 28; Serial No. 448,479; published Jan. 27, 1942.

Greases, Lubricating. Socony-Vacuum Oil Company. 394,786; Apr. 28; Serial No. 448,482; published Jan. 27, 1942.

Oil and grease, Lubricating. Globe Refining Company. 158,684; renewed Sept. 12, 1942.

Oil for electric cables, Insulating. Socony-Vacuum Oil Company. 394,785; Apr. 28; Serial No. 448,481; published Jan. 27, 1942.

Oils and greases, Illuminating and lubricating. Galena-Signal Oil Co. 158,679; renewed Sept. 12, 1942.

Oils and greases, Lubricating. Atlantic Refining Company. 394,803; Apr. 28; Serial No. 448,891; published Feb. 17, 1942.

Oils, Lubricating. Atlantic Refining Company. 394,802; Apr. 28; Serial No. 448,889; published Feb. 17, 1942.

Oils, Lubricating. Atlantic Refining Company. 394,804–5; Apr. 28; Serial Nos. 448,892–3; published Feb. 17, 1942.

Oils, Lubricating. Atlantic Refining Company. 394,806; Apr. 28; Serial No. 448,895; published Feb. 17, 1942.

CLASS 16

Enamel, Quick drying. Old Colony Paint & Chemical Co. 394,775; Apr. 28; Serial No. 448,299; published Feb. 17, 1942.

Paint, Non-drying. Inertol Company. 394,796; Apr. 28; Serial No. 448,731; published Feb. 17, 1942.

Paint, Waterproofing, protective, and camouflage. American Bitumuls Company. 394,823; Apr. 28; Serial No. 449,246; published Feb. 17, 1942.

Paints and varnishes, Luminescent. Rhode Island Laboratories, Incorporated. 394,843; Apr. 28; Serial No. 449,629; published Feb. 17, 1942.

Paints, colors, varnishes, etc. McDougall-Butler Co. 159,028; renewed Sept. 19, 1942.

Paints, stains, paint enamels, etc. Benjamin Moore & Co. 159,041; renewed Sept. 19, 1942.

Paints, varnishes, stains, etc., Ready-mixed. Bradley & Vrooman Company. 158,620; renewed Sept. 12, 1942.

Putty. Baker Paint & Varnish Co. 158,603; renewed Sept. 12, 1942.

Putty, Pyroxylin glazing. Rinshed-Mason Company. 394,794; Apr. 28; Serial No. 448,707; published Feb. 17, 1942.

Varnishes. Eagle Paint & Varnish Co. 153,709; renewed Mar. 28, 1942.

CLASS 17

Cigars, cigarettes, smoking tobaccos, etc. Lincoln and Ulmer. 154,083; renewed Apr. 4, 1942.

Tobacco and cigarettes. American Tobacco Company. 154,866; renewed May 16, 1942.

Tobacco, Chewing and smoking. John C. Herman & Co. 394,826–8; Apr. 28; Serial Nos. 449,275–7; published Feb. 17, 1942.

CLASS 19

Wind propelled ornaments used on automobiles, trucks, etc. W. B. Vandegrift. 394,754; Apr. 28; Serial No. 447,036; published Feb. 17, 1942.

CLASS 21

Fixtures, Electric-lighting. St. Louis Brass Mfg. Co. 158,548; renewed Sept. 5, 1942.

CLASS 22

Banks, Coin. Durable Toy & Novelty Corp. 394,850; Apr. 28; Serial No. 449,898; published Feb. 17, 1942.

Dolls. Sayco Doll Corporation. 394,840; Apr. 28; Serial No. 449,436; published Feb. 17, 1942.

Durable Toy & Novelty Corp., New York, N. Y. Coin banks. 394,850; Apr. 28; Serial No. 449,898; published Feb. 17, 1942.

Game. E. C. Chittum. 394,853; Apr. 28; Serial No. 450,009; published Feb. 17, 1942.

Nets used in the games of tennis, badminton, water polo, etc. Linen Thread Co. 394,740; Apr. 28; Serial No. 445,660; published Feb. 17, 1942.

Shafts for golf clubs, Steel. Horton Manufacturing Company, The. 157,980; renewed Aug. 22, 1942.

Sporting goods—namely, footballs, basketballs, volley balls, etc. Spartan Sporting Goods Company. 394,761; Apr. 28; Serial No. 447,960; published Feb. 17, 1942.

CLASS 23

Extinguishers and chemical fire engines, Fire. B. J. Goldstein. 156,871; renewed July 18, 1942.

Milling machines. Kearney & Trecker Corporation. 394,788; Apr. 28; Serial No. 448,563; published Apr. 28, 1942.

Milling machines. Kearney & Trecker Corporation. 394,864–5; Apr. 28.

Pumps, Diaphragm. Ralph B. Carter Company. 158,199; renewed Aug. 29, 1942.

CLASS 25

Locks, cabinet locks, and window locks, Automobile radio. Philco Corporation. 394,819; Apr. 28; Serial No. 449,153; published Feb. 17, 1942.

CLASS 26

Apparatus for testing, exercising, and training the eyes. Bausch & Lomb Optical Company. 394,841; Apr. 28; Serial No. 449,539; published Feb. 17, 1942.

Calculating machines and bookkeeping machines. Aktiebolaget Addo. 394,834; Apr. 28; Serial No. 449,364; published Feb. 17, 1942.

Cameras and binoculars, goggles, sun glasses, etc. Waronock and Ansen. 394,715; Apr. 28; Serial No. 435,332; published Feb. 17, 1942.

Meters, Liquid. S. F. Bowser & Company. 394,743; Apr. 28; Serial No. 446,041; published Feb. 17, 1942.

Scientific laboratory combustion furnaces, cabinets, various glass and Pyrex parts, etc. Laboratory Equipment Corporation. 394,757; Apr. 28; Serial No. 447,463; published Feb. 17, 1942.

CLASS 27

Clocks. William L. Gilbert Clock Corporation. 394,821; Apr. 28; Serial No. 449,230; published Feb. 17, 1942.

CLASS 28

Flatware and hollowware. Georg Jensen, Inc. 394,832; Apr. 28; Serial No. 449,323; published Feb. 17, 1942.

Necklaces and bracelets, finger rings, earrings, etc. Silson, Inc. 394,713; Apr. 28; Serial No. 433,634; published Feb. 17, 1942.

CLASS 30

Table ware, Ceramic. Justin Tharaud, Inc. 394,742; Apr. 28; Serial No. 446,007; published Feb. 17, 1942.

CLASS 32

Bed springs. Union Bed and Spring Company. 159,134; renewed Sept. 19, 1942.

Beds, bed springs, cots, etc. National Mattress Co. Inc. 159,046; renewed Sept. 19, 1942.

Cabinets, Medicine. Hess Warming & Ventilating Company. 157,682; renewed Aug. 15, 1942.

Chairs. Nichols & Stone Company. 159,051; renewed Sept. 19, 1942.

Furniture, Dining, living and bed room. F. J. Potthast. 394,738; Apr. 28; Serial No. 445,102; published Feb. 17, 1942.

Furniture slip covers. Comfy Manufacturing Company. 394,732–3; Apr. 28; Serial Nos. 444,634–5; published Feb. 17, 1942.

Mattresses, cushions, pads, etc. Burton-Dixie Corporation. 158,908; renewed Sept. 19, 1942.

Mirrors. Peacock Laboratories, Inc. 394,837; Apr. 28; Serial No. 449,394; published Feb. 17, 1942.

Venetian blind assemblies and slats, head rails, bottom rails, and tilt rails therefor. Guarantee Specialty Manufacturing Co. 394,851; Apr. 28; Serial No. 449,901; published Feb. 17, 1942.

CLASS 33

Glassware. L. Batlin & Son, Inc. 394,799; Apr. 28; Serial No. 448,847; published Feb. 17, 1942.

CLASS 34

Air flow control louver units for air conditioning systems. Barber-Colman Company. 394,739; Apr. 28; Serial No. 445,314; published Feb. 17, 1942.
Lighting reflectors for fluorescent lamps. Garden City Plating & Mfg. Co. 394,728; Apr. 28; Serial No. 443,228; published Feb. 17, 1942.

CLASS 35

Belting for power transmission, elevating, and conveying purposes, air brake hose, etc. Quaker Rubber Corporation. 394,790–1; Apr. 28; Serial Nos. 448,651–2; published Feb. 17, 1942.
Belts for driving automobile fans and other machinery. B. F. Goodrich Company. 154,036; renewed Apr. 4, 1942.
Hose composed of rubber and fabric, Fluid conducting. B. F. Goodrich Company. 394,824; Apr. 28; Serial No. 449,263; published Feb. 17, 1942.
Machinery packing, Cotton hemp, asbestos flax or metallic foil. James Walker & Co. 394,763; Apr. 28; Serial No. 448,022; published Feb. 17, 1942.
Rings, Jar. Kroger Grocery & Baking Company. 394,848; Apr. 28; Serial No. 449,863; published Feb. 17, 1942.

CLASS 37

Envelopes, file folders, and file pockets. J. W. Fitzgerald. 158,217; renewed Aug. 29, 1942.
Paper, Toilet. Linton & Scott. 156,748; renewed July 11, 1942.
Papers, Ledger and index. Parsons Paper Company. 394,760; Apr. 28; Serial No. 448,166; published Feb. 17, 1942.
Wrappers, Fruit and vegetable. United Paper Company. 155,106; renewed May 16, 1942.

CLASS 38

Column, Newspaper. F. P. Adams. 157,632; renewed Aug. 15, 1942.
Journal. Spokesman Publishing Company. 159,107; renewed Sept. 19, 1942.
Publications, Monthly. Charles Scribner's Sons. 159,093; renewed Sept. 19, 1942.

CLASS 39

Boots and shoes. Norvic Shoe Company. 394,746; Apr. 28; Serial No. 446,277; published Feb. 17, 1942.
Clothing. William Hollins & Company, Limited. 155,717; renewed June 6, 1942.
Coats, suits, and equestrian clothes. Kessler, Schwartz & Co. 394,800; Apr. 28; Serial No. 448,866; published Feb. 17, 1942.
Corsets, brassières, corset covers, etc. Kops Bros. 154,601; renewed Apr. 18, 1942.
Dresses. Aronoff, Richling & Fein. 394,820; Apr. 28; Serial No. 449,199; published Feb. 3, 1942.
Garments made of fur. Fromm Bros., Inc. 394,735; Apr. 28; Serial No. 444,867; published Feb. 17, 1942.
Garters, suspenders, and belts. A. Stein & Company. 394,801; Apr. 28; Serial No. 448,880; published Feb. 17, 1942.
Gloves, Work. Wells-Lamont-Smith Corporation. 394,723; Apr. 28; Serial No. 439,377; published Feb. 17, 1942.
Hats. A. Harris & Co. 394,810; Apr. 28; Serial No. 448,941; published Feb. 17, 1942.
Hats, Men's. Byer-Rolnick Co. 394,759; Apr. 28; Serial No. 447,781; published Feb. 17, 1942.
Hats, Men's. O'Rourke, Eubanks Hat Co. 158,047; renewed Aug. 22, 1942.
Heels, soles, and half soles of rubber. B. F. Goodrich Company. 394,833; Apr. 28; Serial No. 449,343; published Feb. 17, 1942.
Hosiery. C. Smith. 159,104; renewed Sept. 19, 1942.
Hosiery. Daisy Whitehead Knitting Co. 158,928; renewed Sept. 19, 1942.
Hosiery, Infants'. W. T. Grant Company. 158,968; renewed Sept. 19, 1942.
Muffs, Ear. A. Bentkamp. 394,771; Apr. 28; Serial No. 448,181; published Feb. 17, 1942.
Neckties, cravats, and handkerchiefs. M. Dombrowsky. 394,781; Apr. 28; Serial No. 448,449; published Feb. 17, 1942.
Shirts, jackets, and coats for men and boys, Dress and sport. Marlboro Shirt Co. 394,829; Apr. 28; Serial No. 449,286; published Feb. 3, 1942.
Shoes and slippers, Felt. Little Falls Felt Shoe Company. 156,001; renewed June 13, 1942.
Shoes, Women's leather. Craddock Terry Company. 158,924; renewed Sept. 19, 1942.
Suits, vests, pants, etc., Men's. S. Gerson. 394,862; Apr. 28.
Sweaters and two piece knitted dresses, Ladies' and misses' knitted sport. Select Sportswear, Inc. 394,812; Apr. 28; Serial No. 448,988; published Feb. 3, 1942.
Underwear, Men's and boys'. Cooper's Incorporated. 394,741; Apr. 28; Serial No. 445,840; published Feb. 3, 1942.
Union suits, pants, vests, etc., Men's and women's. Campe Corporation. 394,749; Apr. 28; Serial No. 446,731; published Feb. 3, 1942.

CLASS 40

Packages containing cut-out and prepared materials for making lounging slippers, etc. Creed & Stewart, Ltd. 394,782; Apr. 28; Serial No. 448,469; published Feb. 17, 1942.
Pin, Two-pronged hat. J. H. Brown. 394,726; Apr. 28; Serial No. 444,926; published Feb. 17, 1942.

CLASS 42

Canvas, Pastry. Marshall Field & Company. 394,789; Apr. 28; Serial No. 448,609; published Jan. 27, 1942.
Cotton fabrics in pieces. Heberlein & Co. A. G. 158,699; renewed Sept. 12, 1942.
Cotton piece goods. Cohn-Hall-Marx Co. 157,656; renewed Aug. 15, 1942.
Curtains, Decorative window. Abraham & Straus, Inc. 394,750; Apr. 28; Serial No. 446,851; published Jan. 27, 1942.
Ducks, twills, drills, etc., bleached. Fred S. Bennett, Inc. 394,866; Apr. 28.
Fabric in the piece, Ground. I. Jolles. 394,870; Apr. 28.
Fabric in the piece, Rayon. Thompson Company. 394,753; Apr. 28; Serial No. 447,007; published Nov. 4, 1941.
Fabrics and cloths, Cotton awning. Falls Company. 394,737; Apr. 28; Serial No. 445,046; published Jan. 27, 1942.
Fabrics in the piece of cotton rayon and combinations thereof. H. A. Gitlin & Co. 394,867; Apr. 28.
Festoons and valances used with draperies. A. M. Kofka. 394,773; Apr. 28; Serial No. 448,194; published Jan. 27, 1942.
Piece goods. Boott Mills. 394,856; Apr. 28.
Piece goods. Cheney Brothers. 394,756; Apr. 28; Serial No. 447,226; published Jan. 27, 1942.
Piece goods. Heberlein & Co. A. G. 157,517; renewed Aug. 8, 1942.
Piece goods. William Skinner & Sons. 394,813; Apr. 28; Serial No. 449,023; published Feb. 3, 1942.
Piece goods, and combinations thereof, Cotton, rayon, acetate, and/or silk. Cohn-Hall-Marx Co. 394,815; Apr. 28; Serial No. 449,038; published Jan. 27, 1942.
Piece goods, Cotton, rayon, acetate, and/or silk. Cohn-Hall-Marx Co. 394,816; Apr. 28; Serial No. 449,039; published Feb. 3, 1942.
Piece goods, Spun rayon. Cantor-Greenspan Co. 394,758; Apr. 28; Serial No. 447,555; published Jan. 27, 1942.
Piece goods, Woven. Crown Weaving Mills, Inc. 394,777; Apr. 28; Serial No. 448,360; published Jan. 27, 1942.
Sheeting, sheets, and pillow cases. Carter Dry Goods Co. 158,915; renewed Sept. 19, 1942.
Table cloths, napkins, towels, etc. California Piece Dye Works. 394,762; Apr. 28; Serial No. 447,972; published Jan. 27, 1942.
Textile fabrics, bed sheets, pillow cases, etc. John Matouk, Inc. 394,868; Apr. 28.
Textile prints in the piece, Cotton. M. S. Brown. 394,814; Apr. 28; Serial No. 449,035; published Feb. 3, 1942.
Wool and artificial-silk piece goods. Turner & Walls. 158,837; renewed Sept. 12, 1942.

CLASS 43

Threads and yarns. Heberlein & Co. A. G. 154,044; renewed Apr. 4, 1942.

CLASS 44

Apparatus for electrolytically preparing an antiseptic solution. Constructions et Applications Radio-Electrolytiques. 394,710; Apr. 28; Serial No. 428,278; published Feb. 17, 1942.
Apparatus for sterilizing surgical and dental instruments. Barnstead Still and Sterilizer Co. 158,604; renewed Sept. 12, 1942.
Hair dressing (permanent wave) kits. H. Stein. 394,795; Apr. 28; Serial No. 448,711; published Feb. 17, 1942.
Materials and kits of materials for forming intra oral dental impressions. H. D. Justi & Son, Inc. 394,842; Apr. 28; Serial No. 449,613; published Feb. 17, 1942.
Pads, Electric heating. Casco Products Corporation. 394,764; Apr. 28; Serial No. 448,034; published Feb. 17, 1942.
Prophylactic rubber articles. Gotham Sales Company. 394,772; Apr. 28; Serial No. 448,192; published Feb. 17, 1942.

CLASS 45

Ginger ale, root beer, sarsaparilla, etc. Hudor Co. 157,981; renewed Aug. 22, 1942.
Mineral waters and other non-alcoholic drinks. Samuel C. Rogers and James S. Pearson. 21,213; re-renewed June 21, 1942.

CLASS 46

Butter. Frederick F. Lowenfels & Son. 394,726; Apr. 28; Serial No. 442,045; published Feb. 17, 1942.
Butter, lard, hams, etc. Wm. Schluderberg-T. J. Kurdle Co. 154,687; renewed Apr. 18, 1942.
Canned fruits and vegetables, canned soups, glassed vinegar, etc. I. J. Mazo. 394,722; Apr. 28; Serial No. 439,253; published Feb. 17, 1942.
Canned pineapple and pear juice. Barron-Gray Packing Company. 394,717; Apr. 28; Serial No. 436,917; published Feb. 17, 1942.
Canned soup and a preparation of milk and vegetable juices. D. I. Yohanan. 394,779; Apr. 28; Serial No. 448,403; published Feb. 17, 1942.
Cheese. V. O. Jarvinen. 394,714; Apr. 28; Serial No. 434,330; published Aug. 19, 1941.
Cheese. Roethlisberger & Co. 394,798; Apr. 28; Serial No. 448,803; published Feb. 17, 1942.
Chocolate, cocoa, and candies. Brewster Sons Company. 158,905; renewed Sept. 19, 1942.
Coffee. Geo. W. Caswell Co. 394,745; Apr. 28; Serial No. 446,125; published Feb. 17, 1942.
Coffee. Lawson Coffee Co. 394,721; Apr. 28; Serial No. 438,951; published Feb. 17, 1942.
Coffee and coffee syrup, Liquid. M. Weisberg. 394,860; Apr. 28.
Corn distillers dried solubles, for poultry and livestock feed. Dewey Brothers Company. 394,835; Apr. 28; Serial No. 449,367; published Feb. 17, 1942.
Dog food, Dry. F. O. Morse. 394,869; Apr. 28.
Flour, Wheat. American Hominy Company. 152,340; renewed Feb. 28, 1942.
Foods. Western Grocer Company. 154,734; renewed Apr. 18, 1942.
Foods, Prepared. J. H. Gary. 394,871; Apr. 28.
Fruits, Fresh citrus. Azusa Citrus Association. 394,844–5; Apr. 28; Serial Nos. 449,711–12; published Feb. 17, 1942.
Fruits, Fresh citrus. Nevins Fruit Co. 394,751; Apr. 28; Serial No. 446,887; published Feb. 17, 1942.
Ice cream cones. E. A. Hamwi. 394,825; Apr. 28; Serial No. 449,265; published Feb. 17, 1942.
Meats and meat products. Albany Packing Company. 394,776; Apr. 28; Serial No. 448,353; published Feb. 17, 1942.
Milk, Evaporated. Borden Company. 158,901; renewed Sept. 19, 1942.
Onion powder. Basic Vegetable Products Co. 394,858; Apr. 28.
Oranges. Covina Orange Growers Association. 155,657; renewed June 6, 1942.
Pastes, Alimentary. V. Viviano & Bros. Macaroni Manufacturing Co. Inc. 394,855; Apr. 28.
Peanut butter, cane and maple syrup, honey, etc. Tolerton & Warfield Company. 394,716; Apr. 28; Serial No. 436,745; published Feb. 17, 1942.
Sauce preparation for flavoring roasts, chops, fish, etc., Condiment. R. J. Newman. 394,729; Apr. 28; Serial No. 443,852; published Feb. 17, 1942.
Shrimp, Fresh frozen. Marine Products Company. 394,818; Apr. 28; Serial No. 449,079; published Feb. 17, 1942.
Vegetables, Fresh. La Brea Securities Co. 394,793; Apr. 28; Serial No. 448,698; published Feb. 17, 1942.
Vitamin and mineral supplement to human and animal food. Cerophyl Laboratories, Inc. 394,731; Apr. 28; Serial No. 444,326; published Feb. 17, 1942.
Yeast. Standard Brands Incorporated. 394,857; Apr. 28.

CLASS 49

Brandies, rums, alcohol, and denaturized alcohol for motors. Compania Licorera Matanzas, S. A. 394,854; Apr. 28; Serial No. 1,328 (Inter-Am. Series); published Apr. 28, 1942.

CLASS 50

Castings of transparent plastic material. Cardinal Corporation. 394,711; Apr. 28; Serial No. 429,431; published Feb. 17, 1942.
Curtain stretchers. Quaker Stretcher Company. 394,770; Apr. 28; Serial No. 448,170; published Feb. 17, 1942.
Rubberized fabrics and other moisture proofed and water-repellent fabrics. Aldan Rubber Company. 394,830; Apr. 28; Serial No. 449,309; published Feb. 17, 1942.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 28TH DAY OF APRIL, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Bowers, Archibald C., Akron, Ohio, assignor to Pennsylvania Rubber Company. Tire manufacture. Re. 22,080; Apr. 28.

Campbell, John G., Houston, assignor to R. H. Fash, Trustee, Fort Worth, Tex. Determining the petroleum oil content of earth samples. Re. 22,081; Apr. 28.

Duncan, Ed. W., Blue Diamond, Ky. Drop bottom car. Re. 22,082; Apr. 28.

Fash, Ralph H., Trustee. (See Campbell, John G., assignor.)

General Electric Company. (See Inman, George E., assignor.)

General Electric Company. (See Treanor, Edward D., assignor.)

Inman, George E., East Cleveland, Ohio., assignor to General Electric Company. Gaseous and vapor electric discharge device. Re. 22,083; Apr. 28.

Lookabaugh, Edwin M., Stillwater, Okla. Football shoulder pad. Re. 22,084; Apr. 28.

Pennsylvania Rubber Company. (See Bowers, Archibald C., assignor.)

Reeves, Paul B., assignor to Reeves Pulley Company, Columbus, Ind. Multiple-belt variable speed unit. Re. 22,085; Apr. 28.

Reeves Pulley Company. (See Reeves, Paul B., assignor.)

Treanor, Edward D., Pittsfield, Mass., assignor to General Electric Company. Bushing. Re. 22,086; Apr. 28.

LIST OF PLANT PATENTEES

Drain, Brooks D., assignor to The University of Tennessee Research Corporation, Knoxville, Tenn. Red raspberry. 512; Apr. 28.

Harris, Robert Alsey, Riverside, assignor to Lawrence Sherwood, Fullerton, Calif. Pecan tree. 510; Apr. 28.

McClung, Henary L., Tyler, Tex. Rose. 511; Apr. 28.

Sherwood, Lawrence. (See Harris, Robert A., assignor.)

University of Tennessee Research Corporation, The. (See Drain, Brooks D., assignor.)

LIST OF DESIGN PATENTEES

Alvino, Gabriel P., Newark, N. J. Plaque. 132,170; Apr. 28.

American Sundries Company. (See Duberstein, Samuel, assignor.)

Armstrong Cork Company. (See Ireys, Meredith S., assignor.)

Bay State Optical Company. (See Nerney, George E., assignor.)

Bersin, Albert, Brooklyn, N. Y. Bowling alley score table. 132,171; Apr. 28.

Boothby, Walter M., and W. R. Lovelace, II, Rochester, Minn. Aviator's oxygen mask or similar article. 132,172; Apr. 28.

Boothby, Walter M., and W. R. Lovelace, II, Rochester, Minn. Oronasal mask. 132,173; Apr. 28.

Boynton and Company. (See Jiranek, Leo, assignor.)

Brunswick-Balke-Collender Company, The. (See Cloutier, Ellery J., assignor.)

Brunswick-Balke-Collender Company, The. (See Kennedy, Robert E., assignor.)

Buchholz, Israel, New York, N. Y. Coat. 132,208; Apr. 28.

Burke, William A., assignor to Oriental Wrought Iron Works, Inc., South Bend, Ind. Chair. 132,165; Apr. 28.

Burke, William A., assignor to Oriental Wrought Iron Works, Inc., South Bend, Ind. Chair. 132,174; Apr. 28.

Carl-Art, Inc. (See Valcourt, Laurence, assignor.)

Cashin, Bonnie, New York, N. Y. Dress. 132,215; Apr. 28.

Cashin, Bonnie, New York, N. Y. Dress. 132,216; Apr. 28.

Cashin, Bonnie, New York, N. Y. Dress. 132,217; Apr. 28.

Cashin, Bonnie, New York, N. Y. Dress. 132,218; Apr. 28.

Cashin, Bonnie, New York, N. Y. Dress. 132,219; Apr. 28.

Cashin, Bonnie, New York, N. Y. Dress. 132,220; Apr. 28.

Cashin, Bonnie, New York, N. Y. Dress ensemble. 132,221; Apr. 28.

Cashin, Bonnie, New York, N. Y. Dress. 132,222; Apr. 28.

Cashin, Bonnie, New York, N. Y. Dress ensemble. 132,223; Apr. 28.

Christensen, John A., Arlington, Mass. Milk bottle crate. 132,209; Apr. 28.

Cloutier, Ellery J., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Score table or the like. 132,166; Apr. 28.

Cloutier, Ellery J., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Combined score table and score projector or similar article. 132,240; Apr. 28.

Coe, Robert H., Worcester, Mass. Textile fabric. 132,241; Apr. 28.

Coe, Robert H., Worcester, Mass. Textile fabric. 132,242; Apr. 28.

Cutler, Elizabeth, New York, N. Y. Dress. 132,224; Apr. 28.

Dalton, Alfred J., assignor to Industrial Sheet Metal Works, Inc., Detroit, Mich. Air washer casing or similar article. 132,175; Apr. 28.

Daniels, Claude H., Greenwich, Conn. Shoe. 132,196; Apr. 28.

Daniels, Claude H., Greenwich, Conn. Shoe. 132,197; Apr. 28.

Dover, Samuel M., Chicago, Ill. Vehicle lamp or similar article. 132,167; Apr. 28.

Dreyfuss, Henry, New York, N. Y., assignor to The S. S. White Dental Manufacturing Company. Adjustable chair casing. 132,210; Apr. 28.

Duberstein, Samuel, Brooklyn, N. Y., assignor to American Sundries Company, Inc. Electrically heated water bath. 132,176; Apr. 28.

Ducket, Abraham, New York, N. Y. Suit. 132,225; Apr. 28.

Elmo, Sadie, New York, N. Y. Dress. 132,226; Apr. 28.

Elmo, Sadie, New York, N. Y. Dress. 132,227; Apr. 28.

Elmo, Sadie, New York, N. Y. Dress. 132,228; Apr. 28.

Eizenberg, Harry, Brooklyn, N. Y. Display plate for automobiles. 132,203; Apr. 28.

Elkin, Newton, Philadelphia, Pa. Shoe or similar article. 132,198; Apr. 28.

Freydberg, G., H. & E., Inc. (See Widrow, David, assignor.)

Graham, George M., Detroit, Mich., assignor to Hinckley-Myers Company, Jackson, Mich. Merchandising display cabinet or similar article. 132,168; Apr. 28.

Gross, Alexander S., New York, N. Y. Dress. 132,229; Apr. 28.

Gross, Alexander S., New York, N. Y. Dress. 132,230; Apr. 28.

Gross, Alexander S., New York, N. Y. Dress. 132,231; Apr. 28.

Gross, Alexander S., New York, N. Y. Dress. 132,232; Apr. 28.

Hansell, Standish F., Eddington, Pa. Building. 132,177; Apr. 28.

Hinckley-Myers Company. (See Graham, George M., assignor.)

Holslag, Russell C., Brooklyn, N. Y. Refuse receptacle or similar article. 132,178; Apr. 28.

Hordes, Irving, Yonkers, N. Y. Pennant or similar article. 132,179; Apr. 28.

Industrial Sheet Metal Works, Inc. (See Dalton, Alfred J., assignor.)

Ireys, Meredith S., assignor to Armstrong Cork Company, Lancaster, Pa. Bottle or similar article. 132,180; Apr. 28.

Jiranek, Leo, New York, N. Y., assignor to Boynton and Company, Chicago, Ill. Statuette. 132,181; Apr. 28.

Jones, Frederick M., Minneapolis, Minn., assignor to U S Thermo Control Company. Air conditioning unit. 132,182; Apr. 28.
Jubilee Manufacturing Company. (See Nielsen, Peter, assignor.)
Kennedy, Robert E., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Bowling ball rack or the like. 132,212; Apr. 28.
Lawrence, Philip L., New York, N. Y. Woven textile fabric. 132,189; Apr. 28.
Lentheric Incorporated. (See McIntosh, Frank, assignor.)
Le Tourneau, R. G., Inc. (See Peterson, Oscar Raymond, assignor.)
Lewis, John O., New York, N. Y. Spray nozzle. 132,183; Apr. 28.
Lovelace, William R., II. (See Boothby, Walter M., and Lovelace.)
Lyon, Harold J., Los Angeles, Calif. Headgear chin strap. 132,184; Apr. 28.
Maisch, Jacques E., New York, N. Y. Textile fabric. 132,190; Apr. 28.
Maisch, Jacques E., New York, N. Y. Textile fabric. 132,191; Apr. 28.
Maisch, Jacques E., New York, N. Y. Textile fabric. 132,192; Apr. 28.
McIntosh, Frank, assignor to Lentheric, Incorporated, New York, N. Y. Powder dispenser or similar article. 132,185; Apr. 28.
Mellen, James W., Los Angeles, Calif. Service flag. 132,204; Apr. 28.
Miller, Earl F., Creve Coeur, Ill. Fluorescent lamp. 132,213; Apr. 28.
Mohr, Dora, Boston, Mass. Doll group. 132,206; Apr. 28.
Murphy, Lawrence J., Brooklyn, N. Y. Altar. 132,193; Apr. 28.
Nerney, George E., assignor to Bay State Optical Company, Attleboro, Mass. Pair of spectacles. 132,199; Apr. 28.
Nerney, George E., assignor to Bay State Optical Company, Attleboro, Mass. Pair of spectacles. 132,200; Apr. 28.
Nielsen, Peter, assignor to Jubilee Manufacturing Company, Omaha, Nebr. Automobile horn keyboard switch or the like. 132,194; Apr. 28.
Oriental Wrought Iron Works, Inc. (See Burke, William A., assignor.)
Palmer, Philip D., Toronto, Ontario, Canada. Telephone index. 132,207; Apr. 28.
Peck, William F., Snyder, assignor to Spencer Lens Company, Buffalo, N. Y. Illuminating projector. 132,169; Apr. 28.
Petersen, Oscar Raymond, Tournapull, Ga., assignor to R. G. Le Tourneau, Inc. Utility truck. 132,211; Apr. 28.
Pressman, Jacob, New York, N. Y. Toy dressing table or the like. 132,243; Apr. 28.
Rosenberg, Enid, New York, N. Y. Dress. 132,233; Apr. 28.
Rosenberg, Enid, New York, N. Y. Dress. 132,234; Apr. 28.
Rosenberg, Enid, New York, N. Y. Dress. 132,235. Apr. 28.
Rosenberg, Enid, New York, N. Y. Dress. 132,236; Apr. 28.
Rosenberg, Enid, New York, N. Y. Dress ensemble. 132,237; Apr. 28.
Shedlo, Morris, New York, N. Y. Umbrella ferrule. 132,195; Apr. 28.
Slough, Frank D., Mentor, Ohio. Phonograph record rack. 132,204; Apr. 28.
Spencer Lens Company. (See Peck, William F., assignor.)
Standard Register Company, The. (See Sundberg, Carl W., assignor.)
Stark, Irwin A., Brooklyn, N. Y. Badge or similar article. 132,186; Apr. 28.
Sundberg, Carl W., Birmingham, Mich., assignor to The Standard Register Company, Dayton, Ohio. Autographic register. 132,238; Apr. 28.
Swanson, Carl E., Chicago, Ill. Fluorescent table lamp. 132,214; Apr. 28.
Tobler, Hans, Teaneck, N. J. Lace trimming or similar article. 132,202; Apr. 28.
U S Thermo Control Company. (See Jones, Frederick M., assignor.)
Valcourt, Laurence, Pawtucket, assignor to Carl-Art, Inc., Providence, R. I. Jewelry finding. 132,187; Apr. 28.
Vendig, Malcolm A., Sandspoint, Long Island, N. Y. Budget bank. 132,205; Apr. 28.
White, S. S., Dental Manufacturing Company, The. (See Dreyfuss, Henry.)
Widrow, David, assignor to G., H. & E. Freydberg, Inc., New York, N. Y. Child's combination garment. 132,188; Apr. 28.
Zahn, Philip, New York, N. Y. Dress ensemble. 132,239; Apr. 28.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 28TH DAY OF APRIL, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abercrombie, Tyler D., Ashburn, Ga. Mold for concrete blocks. 2,281,133; Apr. 28.
Abington Textile Machinery Works. (See Clark, Ernest, assignor.)
Abington Textile Machinery Works. (See White, Charles E., assignor.)
Abrams, Victor R. (See Moskovics, F. E., and Abrams.)
Acme Steel Company. (See Heslet, C. G., and Layman, assignors.)
Adams, Rex, Galatia, assignor of one-quarter to M. Shannon, Johnston City, Ill. Automatic dump bucket elevator. 2,280,941; Apr. 28.
Ahlberg, Jacob E. (See Benedict, W. L., and Ahlberg.)
Aid Manufacturing Company. (See Christ, Philipp, assignor.)
Air Reduction Company. (See Anderson, James L., assignor.)
Alexander Wacker, Dr., Ges. für elektrochemische Industrie m. b. H. (See Edhofer, G., and Wolff, assignors.)
Allen, Earl M., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway track circuit apparatus. 2,280,878; Apr. 28.
Allen, Philip H., Oakland, assignor to Richmond-Chase Co., San Jose, Calif. Filling machine and method. 2,280,776; Apr. 28.
Allied Chemical & Dye Corporation. (See Fellows, Albert T., assignor.)
Almquist, Herman J., El Cerrito, and A. A. Klose, Berkeley, Calif., assignors to Merck & Co., Inc., Rahway, N. J. Synthetic naphthoquinone derivatives. 2,280,777; Apr. 28.
Aluminum Company of America. (See Brown, Ralph W., assignor.)
American Bosch Corporation. (See Baierlein, George W., assignor.)
American Can Company. (See Hansen, John, assignor.)
American Can Company. (See Hothersall, John M., assignor.)
American Can Company. (See Rooney, Walter E., assignor.)
American Cyanamid Company. (See Barnes, Robert B., assignor.)
American Cyanamid Company. (See Booth, Robert B., assignor.)
American Cyanamid Company. (See Winnek, Philip S., assignor.)
American Laundry Machinery Company, The. (See Johnson, Oscar W., assignor.)
American Laundry Machinery Company, The. (See Kahn, Leo M., assignor.)
American Paper Tube Co. (See Raymond, Horace H., assignor.)
American Steel Foundries. (See Baselt, Walter H., assignor.)
American Steel Foundries. (Baselt, W. H., and Helsten, assignors.)
American Steel Foundries. (See Cottrell, Robert B., assignor.)
American Steel Foundries. (See Spieth, W. S. and Tack, C. E., assignors.)
American Steel Foundries. (See Tack, Carl E., assignor.)
American Steel and Wire Company, The. (See Anderson, Robert, assignor.)
American Voith Contact Co. Inc. (See Lang, Richard T., assignor.)
American Voith Contact Company. (See Van Erp, Karl J., assignor.)
Amery, George, Oldbury, England. Fuel and like pump. 2,281,302; Apr. 28.
Ampro Corporation. (See Shapiro, Abraham, assignor.)
Andersen, John C., Crockett, Calif. Garden tool. 2,280,778; Apr. 28.
Anderson, James L., Closter, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Wire feed for hand torches. 2,280,879; Apr. 28.
Anderson, Ralph L., and A. W. Oehler, assignors to Deere & Company, Moline, Ill. Windrow harvester. 2,281,059; Apr. 28.
Anderson, Raymond T., Berea, assignor to The V. D. Anderson Company, Cleveland, Ohio. Variable choke mechanism for expeller presses. 2,280,880; Apr. 28.
Anderson, Robert, Waukegan, Ill., assignor to The American Steel and Wire Company of New Jersey. Gate construction. 2,281,220; Apr. 28.
Anderson, V. D., Company, The. (See Anderson, Raymond T., assignor.)
Anderson, William C., Bromley, Ky., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Bus bar duct connector. 2,281,221; Apr. 28.
Andrews, Eleanor U. (See Moskovics, F. E., and Abrams, assignors.)
Andrews, Paul B., and D. L. Mills, assignors to Revere Copper and Brass Incorporated, Rome, N. Y. Coping cap. 2,281,092; Apr. 28.
Anthony, Alfred W., Jr., Waltham, assignor to Pease, Anthony Equipment Company, Cambridge, Mass. Apparatus for washing impurities from gas. 2,281,254; Apr. 28.
Arenberg, Albert L., Highland Park, assignor to Patent License Corporation, Chicago, Ill. Lighting fixture. 2,280,881; Apr. 28.
Arkema, Harold P. (See Blount, Harry and Arkema, H. P.)
Armour and Company. (See Ralston, A. W., and Barrett, assignors.)
Armstrong Cork Company. (See Faber, Elwood C., assignor.)
Armstrong Cork Company. (See Jaynes, Harry R., assignor.)
Armstrong Manufacturing Co. (See Waldo, John E., assignor.)
Armstrong Tool Manufacturing Company. (See Windsor, Otis A., assignor.)
Arness, William B., assignor to Rustless Iron and Steel Corporation, Baltimore, Md. Production of rustless iron. 2,281,179; Apr. 28.
Aronson, Louis V., Newark, N. J., assignor to Art Metal Works, Inc. Device for dispensing and lighting cigarettes or the like. 2,281,060; Apr. 28.
Art Metal Works, Inc. (See Aronson, Louis A., assignor.)
Art Steel Company, Inc. (See Bergman, Ed., assignor.)
Arye, Jacob G., assignor to S. Gorad, New York, N. Y. Shaving device. 2,281,434; Apr. 28.
Associated Electric Laboratories, Inc. (See Cox, Irvin W., assignor.)
Associated Electric Laboratories, Inc. (See Sengebusch, Hans, assignor.)
Atlas Powder Company. (See Brown, Kenneth R., assignor.)
Atlas Powder Company. (See Power, James T., assignor.)
Atkinson, Haserick & Co. (See Homans, William P., assignor.)
Augustadt, Herbert W., Valley Stream, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone control circuits. 2,281,255; Apr. 28.
Austin, Dwight E., assignor to Yellow Truck & Coach Manufacturing Company, Pontiac, Mich. Adjustable seat. 2,280,882; Apr. 28.
Auto Research Corporation. (See Kocher, Edward H., assignor.)
Autogiro Company of America. (See Pitcairn, Harold F., assignor.)
Automotive Products Company Limited. (See Thornhill, P. W., and Simpson, assignors.)
Bach, John, Budapest, Hungary. Production of rubber threads. 2,280,883; Apr. 28.
Baierlein, George W., assignor to American Bosch Corporation, Springfield, Mass. Speed regulator for internal-combustion engines. 2,281,222; Apr. 28.
Bakelite Corporation. (See Seebach, Fritz, assignor.)
Baker, Benjamin P. (See MacNeill, J. B., Baker, and Bakken.)
Baker, James A., et al. (See Felsing, Howard, assignor.)
Bakken, Andrew H. (See MacNeill, J. B., Baker, and Bakken.)
Balachowsky, Georges. (See Saint-German, J. M., and Balachowsky.)
Balton, James, assignor to Maryland Baking Company, Inc., Baltimore, Md. Ice cream cone dispenser. 2,281,134; Apr. 28.
Banca, Attilio. (See Smith, A., and Banca.)
Bankers Box Company. (See Fellowes, Harry L., assignor.)
Bargfeldt, Howard G., Gary, Ind., W. M. Quigley, West View, and E. S. Taylerson, Pittsburgh, Pa., assignors to Carnegie-Illinois Steel Corporation. Unitary brush assembly. 2,281,256; Apr. 28.
Barnes, Robert B., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Turbidimeter. 2,280,993; Apr. 28.
Barney, Merritt D., Billings, Mont. Hip boot drying hanger. 2,281,016; Apr. 28.
Barnhardt, Jacob C., assignor to Barnhardt Manufacturing Company, Charlotte, N. C. Making filter pads and the like. 2,281,017; Apr. 28.
Barnhardt Manufacturing Company. (See Barnhardt, Jacob C., assignor.)

Bransteiner, Alfons, and E. H. Lockwood, Mansfield, Ohio, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Hinge mechanism. 2,281,018; Apr. 28.

Barragy, John L., Rockwell, Iowa. Pig brooder. 2,280,779; Apr. 28.

Barrett, John P. (See Ralston, A. W., and Barrett.)

Barrish, George. (See Barrish, Robert L. and G.)

Barrish, Robert L. and G., Pittsburgh, Pa. Method and apparatus for transmission of signals. 2,281,405; Apr. 28.

Barron, Blum G., C. M. Taylor and F. D. Barron, Houston, Tex. Strop protector. 2,281,223; Apr. 28.

Barron, Florian D. (See Barron, Blum G., Taylor and Barron (F. D.).)

Barrow, George M., Nutley, and B. E. Lenehan, Bloomfield, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Differential relay. 2,280,884; Apr. 28.

Bart, Thomas E., R. C. Gowdy and F. Zugelter, assignors to The Murdock Manufacturing and Supply Company, Cincinnati, Ohio. Antifreeze antipollution drinking fountain. 2,280,780; Apr. 28.

Bart, Thomas E. (See Murdock, R. J., Bart, Zugelter, and Kinney, Jr.)

Baselt, Walter H., assignor to American Steel Foundries, Chicago, Ill. Railway brake. 2,280,781; Apr. 28.

Baselt, Walter H., and W. A. Helsten, assignors to American Steel Foundries, Chicago, Ill. Railway brake. 2,280,782; Apr. 28.

Baselt, Walter H., assignor to American Steel Foundries, Chicago, Ill. Brake arrangement. 2,281,536; Apr. 28.

Bassist, Ellis. (See Toland, W. C., and Bassist.)

Batten, Percy H., et al. (See Lysholm, Alf., assignor.)

Bauer, Hugo. (See Rosenthal, S. M., and Bauer.)

Bauer, Ray W. (See Wright, Parvin, assignor.)

Baum, Fred J., Glendale, and E. M. Wilson, Hermosa Beach, assignors to Northrop Aircraft, Inc., Hawthorne, Calif. Loading raft. 2,281,471; Apr. 28.

Baumgartner, Daniel F., Bucyrus, Ohio. Grader. 2,281,224; Apr. 28.

Becker, John D., Chowchilla, Calif. Dispenser cap. 2,281,135; Apr. 28.

Bell, Davitt S., Pittsburgh, and B. W. Dunham, Oakmont, assignors to Edgewater Steel Corporation, Oakmont, Pa. Rolling internally flanged annuli. 2,280,783; Apr. 28.

Bell, Joseph D., San Francisco, Calif. Chair bed. 2,281,083; Apr. 28.

Bell Telephone Laboratories, Incorporated. (See Augustadt, Herbert W., assignor.)

Bell Telephone Laboratories, Incorporated. (See Brubaker, James W., assignor.)

Bell Telephone Laboratories, Incorporated. (See Calbick, C. J., and Johnson, assignors.)

Bell Telephone Laboratories, Incorporated. (See Green, Estill I., assignor.)

Bell Telephone Laboratories, Incorporated. (See Greenwood, Quentin E., assignor.)

Bell Telephone Laboratories, Incorporated. (See Hall, Nathan I., assignor.)

Bell Telephone Laboratories, Incorporated. (See Horton, A. W., Jr., and Mohr, assignors.)

Bell Telephone Laboratories, Incorporated. (See Kalb, Robert M., assignor.)

Bell Telephone Laboratories, Incorporated. (See Krist, Henry K., assignor.)

Bell Telephone Laboratories, Incorporated. (See Lundstrom, Alexis A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Samuel, Arthur L., assignor.)

Bell Telephone Laboratories, Incorporated. (See Schuh, Arthur E., assignor.)

Bell Telephone Laboratories, Incorporated. (See Smith, Kenneth D., assignor.)

Bell Telephone Laboratories, Incorporated. (See Stover, Herbert F., assignor.)

Bell Telephone Laboratories, Incorporated. (See Tuthill, Walter W., assignor.)

Bell Telephone Laboratories, Incorporated. (See Vibbard, Edward L., assignor.)

Bell Telephone Laboratories, Incorporated. (See Weinhart, Howard W., assignor.)

Bemis Bro. Bag Co. (See Geimer, William J., assignor.)

Bendix Aviation Corporation. (See Goepfrich, Rudolph A., assignor.)

Bendix Aviation Corporation. (See Kliesrath, V. W., and Breese, assignors.)

Bendix Aviation Corporation. (See Kurzina, Stanley B., Jr., assignor.)

Bendix Aviation Corporation. (See Martin, Thomas B., assignor.)

Bendix Aviation Corporation. (See Page, Robert H., assignor.)

Bendix Aviation Corporation. (See Smith, Stuyvesant C., assignor.)

Bendix Aviation Corporation. (See Westcott, Brayton W., assignor.)

Bendix Aviation Corporation. (See Willits, Samuel R., assignor.)

Benedict, Wayne L., and J. E. Ahlberg, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of cracking stocks. 2,281,257; Apr. 28.

Benedict, Wayne L. (See Johnstone, W. W., and Benedict.)

Benton, Harold Z., Glencoe, and L. P. Morris, assignors to Crowe Name Plate & Manufacturing Co., Chicago, Ill. Radio tuning apparatus. 2,281,093; Apr. 28.

Benton, Wade H., Fort Worth, Tex. Food grinder plate. 2,281,258; Apr. 28.

Berger, Herbert R., Brooklyn, assignor to J. F. Jelenko & Co. Inc., New York, N. Y. Heating and melting precious metals and flux composition therefor. 2,281,528; Apr. 28.

Bergman, Ed., assignor to Art Steel Company, Inc., New York, N. Y. File follower plate. 2,281,067; Apr. 28.

Bergmann, Richard F., Lakewood, assignor to Industrial Rayon Corporation, Cleveland, Ohio. Apparatus for treating thread or the like. 2,281,406; Apr. 28.

Berno, Edward H., Plymouth, Mich. Brake. 2,280,784; Apr. 28.

Bertalan, Edward, Glen Arm, and L. J. Moeller, Towson, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Method and apparatus for assembling articles. 2,281,190; Apr. 28.

Betulander, Gotthilf A., Stockholm, Sweden. Switch for automatic telephone plants. 2,281,472; Apr. 28.

Beverlin, Clifton, Sedro Wooley, Wash. Ice cream cone holder. 2,281,136; Apr. 28.

Biller, David J., assignor to Day-Brite Lighting, Inc., St. Louis, Mo. Fluorescent lighting fixture. 2,281,346; Apr. 28.

Bird, Kenric H. (See Henson, W. H., and Bird.)

Bittner, John W., Bellerose, assignor to Intertype Corporation, Brooklyn, N. Y. Typographical machine. 2,281,259; Apr. 28.

Bjorksten, Johan, Chicago, and W. J. Champion, Berwyn, assignors to Ditto, Incorporated, Chicago, Ill. Preparing master copy sheets. 2,281,260; Apr. 28.

Bjorksten, Johan, Chicago, and W. J. Champion, Riverside, assignors to Ditto, Incorporated, Chicago, Ill. Hectograph composition and blanket and preparing same. 2,281,261; Apr. 28.

Blair, Charles M., Jr., Webster Groves, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Sweetening hydrocarbon oils. 2,281,347; Apr. 28.

Blankenhorn, Alfons, Zurich, Switzerland. Trousers. 2,281,086; Apr. 28.

Bleakley Corporation, The. (See Bleakley, Purling A., assignor.)

Bleakley, Purling A., assignor to The Bleakley Corporation, Toledo, Ohio. Producing molds. 2,281,225; Apr. 28.

Blount, Harry, and H. P. Arkema, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for making metallic ribbon. 2,281,230; Apr. 28.

Blu, Marshall A. (See Dempsey, L. E., and Blu.)

Board of Trustees of the Leland Stanford Junior University. (See Hansen, W. W., and Varian, assignors.)

Boeye, Paul F., assignor to Waldorf Paper Products Company, St. Paul, Minn. Box. 2,281,061; Apr. 28.

Bohn Aluminum & Brass Corporation. (See Peters, W. J., and Pattison, assignors.)

Bohn Aluminum & Brass Corporation. (See Schoen, Paul F., assignor.)

Bohnsack, John A., Youngstown, assignor, by mesne assignments, to Porcelain Steels, Inc., Cleveland, Ohio. Making enameled containers. 2,281,407; Apr. 28.

Boles, Younse, Pinedale, Wyo. Apparatus and system for measuring torque. 2,281,226; Apr. 28.

Booth, Robert B., Springdale, Conn., assignor to American Cyanamid Company, New York, N. Y. Mud dispersion. 2,280,994; Apr. 28.

Booth, Robert B., Springdale, Conn., assignor to American Cyanamid Company, New York, N. Y. Mud dispersion. 2,280,995; Apr. 28.

Booth, Robert B., Springdale, Conn., assignor to American Cyanamid Company, New York, N. Y. Treatment of salt- and lime-cut mud. 2,280,996; Apr. 28.

Booth, Robert B., Springdale, Conn., assignor to American Cyanamid Company, New York, N. Y. Treatment of salt-cut and lime-cut mud. 2,280,997; Apr. 28.

Borden Company, The. (See Erekson, Arthur B., assignor.)

Borel, Edouard V., Romont, Switzerland, assignor to Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Method and apparatus for manufacture and treatment of glass and analogous substances. 2,281,408; Apr. 28.

Borevitz, Victor, San Diego, Calif. Broadloom exhibitor. 2,281,137; Apr. 28.

Borg-Warner Corporation. (See Smirl, Richard L., assignor.)

Borland, James E. (See Wickerham, W. R., and Borland.)

Boston Wire Stitcher Company. (See Cavanagh, John F., assignor.)

Boston Wire Stitcher Company. (See Maynard, Arthur H., assignor.)

Bostwick, Myron A., Budd Lake, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Network distribution system. 2,280,885; Apr. 28.

Boynton, Alexander, San Antonio, Tex. Well testing tool. 2,280,785; Apr. 28.

Boynton, Alexander, San Antonio, Tex. Threadless drill pipe. 2,280,786; Apr. 28.

Boynton, Alexander, San Antonio, Tex. Differential stage lift flow device. 2,280,787; Apr. 28.

Boynton, Alexander, San Antonio, Tex. Flow device for oil wells. 2,280,788; Apr. 28.

Brace, Porter H., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh Pa. Bearing lubricant for vacuum service. 2,280,886; Apr. 28.

Brady, Alexander, Newton, Mass. Making face casts. 2,281,227; Apr. 28.

Brake Equipment & Supply Company. (See Pratt, B., and Smith, assignors.)

Brass Goods Manufacturing Co. (See Muloney, Frank H., assignor.)

Brauer, Walter, Oklahoma City, Okla. Swivel connection. 2,281,019; Apr. 28.

Breese, Robert P. (See Kliesrath, V. W., and Breese.)

Breitenstein, Charles T., assignor to R. T. Moloney, Chicago, Ill. Step-up mechanism. 2,281,262; Apr. 28.

Brennan, Joseph B., Euclid, Ohio. Electrolytic device. 2,280,789; Apr. 28.

Bresiny, Jack, New Haven, Conn. Grapple. 2,281,348; Apr. 28.

Brewer, John H., assignor to Hynson, Westcott & Dunning, Incorporated, Baltimore, Md. Sterile surgical package. 2,281,473; Apr. 28.

Brewin, Ledyard V., Paulsboro, N. J. Connecting rod. 2,281,349; Apr. 28.

Briggs & Stratton Corporation. (See Fitz Gerald, John W., assignor.)

Briggs Manufacturing Company. (See Pattison, Herbert J., assignor.)

Briggs Manufacturing Company. (See Platz, Henry T., assignor.)

Bronander, Wilhelm B., Montclair, N. J. Drive transmitting mechanism. 2,281,263; Apr. 28.

Brondum, Herman A. (See Knapp, I. E., Price, and Brondum.)

Brooks, Thomas E., Marshall, Mich. Truss. 2,281,409; Apr. 28.

Brown, Hugo D. (See Nicodemus, W. C., and Brown.)

Brown, Kenneth R., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Electrolytic reduction. 2,280,887; Apr. 28.

Brown, Ralph W., East St. Louis, Ill., assignor to Aluminum Company of America, Pittsburgh, Pa. Alumina recovery process. 2,280,998; Apr. 28.

Brown, Ralph L., Bala-Cynwyd, Pa., assignor to The Solvay Process Company, New York, N. Y. Synthesizing methanol. 2,281,228; Apr. 28.

Brubaker, James W., Freeport, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,281,062; Apr. 28.

Brück, Lothar, Berlin, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie, Berlin, Zehlendorf, Germany. Modulation. 2,281,020; Apr. 28.

Bruno, Joseph C., Binghamton, N. Y. Grating rotor. 2,281,264; Apr. 28.

Bruson, Herman A., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. Unsaturated ether nitriles. 2,280,790; Apr. 28.

Bruson, Herman A., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. Cyanoalkyl ethers of monohydric alicyclic alcohols. 2,280,791; Apr. 28.

Bruson, Herman A., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. Cyanoalkyl ethers of ether alcohols. 2,280,792; Apr. 28.

Bryce, James W., Glen Ridge, N. J., assignor to International Business Machines Corporation, New York, N. Y. Number displaying device. 2,281,350; Apr. 28.

Buchanan, Hugh. (See Jandus, H. S., and Buchanan.)

Buchanan, Lloyd W., Covington, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric motor control. 2,280,888; Apr. 28.

Buchanan, Vita, New York, N. Y. Corset. 2,281,533; Apr. 28.

Buckley Music System, Inc. (See Henry, Earle G., assignor.)

Budd Induction Heating, Inc. (See Somes, Howard E., assignor.)

Budd Wheel Company. (See Farr, Warren H., assignor.)

Buffalo Electro-Chemical Company. (See Salleras, Modesto, assignor.)

Bullock, Giles E., Rochester, N. Y. Nozzle construction. 2,281,229; Apr. 28.

Burka, Samuel M. (See Crane, C. J., and Burka.)

Burke, William J., and F. Traviss Peters, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Rubber hydrohalides stabilized with aminomethyl ureas. 2,281,410; Apr. 28.

Butler, Ralph F., and O. D. Westerberg, Chicago, Ill. Quick action thermostat. 2,281,021; Apr. 28.

Buxton, Incorporated. (See Buxton, Warner R., assignor.)

Buxton, Mabel A., as executrix. (See Buxton, Warner R.)

Buxton, Warner R., deceased, by Mabel Allen Buxton, executrix, Longmeadow, Mass., assignor to Buxton, Incorporated. Portfolio. 2,280,889; Apr. 28.

Caille, Georges L., Vaujours, France, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa. Route control system. 2,280,891; Apr. 28.

Calbick, Chester J., Summit, and J. B. Johnson, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Luminescent screen. 2,280,890; Apr. 28.

Callite Tungsten Corporation. (See Laise, Clemens A., assignor.)

Campana, Frank R., and W. Goetz, San Francisco, Calif. Retaining clip for wedding and engagement rings. 2,281,231; Apr. 28.

Campbell, Harris S., Bryn Athyn, Pa. Toilet seat mechanism. 2,281,265; Apr. 28.

Campbell, John F., Dayton, Ohio, assignor to G. M. Holley and E. Holley. Fuel control apparatus for internal combustion engines. 2,281,411; Apr. 28.

Carborundum Company, The. (See Robie, Norman P., assignor.)

Carlile, Alfred E., Meadville, Pa., assignor to Talon, Inc. Detachable pull tab for slide fastener sliders. 2,280,999; Apr. 28.

Carlile, Alfred E., Meadville, Pa., assignor to Talon, Inc. Locking bridge top stop. 2,281,000; Apr. 28.

Carlisle, George L., and F. L. Kradel, assignors to Railway and Industrial Engineering Company, Greensburg, Pa. Circuit interrupter. 2,281,266; Apr. 28.

Carnegie-Illinois Steel Corporation. (See Bargfeldt, H. G., Quigley, and Taylerson, assignors.)

Carruth, Herman A., Northford, assignor to National Folding Box Company, New Haven, Conn. Collapsible box. 2,280,793; Apr. 28.

Cartwright, Charles H., San Gabriel, Calif., and A. F. Turner, Newton, Mass., assignors to Research Corporation, New York, N. Y. Treating surfaces of light-transmitting articles, and the treated products. 2,281,474; Apr. 28.

Cartwright, Charles H., San Gabriel, Calif., and A. F. Turner, Newton, Mass., assignors to Research Corporation, New York, N. Y. Reducing reflection of light from surfaces, and articles so produced. 2,281,475; Apr. 28.

Carus, Alwin C. (See Schumacher, J. C., and Carus.)

Carus Chemical Company. (See Schumacher, J. C., and Carus, assignors.)

Casey, Thurman G., Oakland, Calif. Tire compressor. 2,281,476; Apr. 28.

Casner, Thaddeus S., Plainfield, N. J. Rotary shaving machine. 2,281,531; Apr. 28.

Cass, Oliver W., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Purification of tetrachlorethylene. 2,280,794; Apr. 28.

Cavanagh, John F., Providence, assignor to Boston Wire Stitcher Company, Warwick, R. I. Fastener-applying implement. 2,281,232; Apr. 28.

Cavanaugh, Thomas J., Detroit, Mich. Shade construction. 2,281,022; Apr. 28.

Cave, Henry, and A. L. Le Febvre, assignor to The Fuller Brush Company, Hartford, Conn. Brush. 2,281,412; Apr. 28.

Celanese Corporation of America. (See Dreyfus, Henry, assignor.)

Celanese Corporation of America. (See Schneider, George, assignor.)

Chaffee, Court B., and S. R. Melton, Memphis, Tenn. Motor vehicle jack. 2,281,413; Apr. 28.

Challeen, Albert J. (See Hearn, W. R., Snook, and Challeen.)

Chambers, Carl C., Lansdowne, assignor to E. Stern & Company, Incorporated, Philadelphia, Pa. Agitating device for photographic developing baths. 2,281,094; Apr. 28.

Champion, William J. (See Bjorksten, J., and Champion.)

Chapman, Elton M., Atlanta, Ga. Eating utensil. 2,281,267; Apr. 28.

Chase Brass & Copper Co. (See Garry, J. W., and Pope, assignors.)

Chesny, Heinz H., Worksop, Nottinghamshire, England. Magnesia refractory. 2,281,477; Apr. 28.

Chicago Spring Hinge Company. (See Keene, William J., assignor.)

Chipchase, Robert S., South Shields, England. Marine life saving equipment. 2,281,233; Apr. 28.

Chirelstein, Nathan, Chicago, Ill. Assembling machine. 2,281,478; Apr. 28.

Chirelstein, Nathan, Chicago, Ill. Attachment plug assembling machine. 2,281,479; Apr. 28.

Chopin, Marcel, Paris, France. Process and apparatus for controlling moisture in granular and pulverulent substances. 2,281,182; Apr. 28.

Christ, Philipp, assignor to Aid Manufacturing Company, East Orange, N. J. Needle threader. 2,281,180; Apr. 28.

Christensen, Niels A., South Euclid, Ohio. High pressure regulating control valve. 2,281,138; Apr. 28.

Chromogen, Incorporated. (See Gaspar, Bela, assignor.)

Cinecolor, Incorporated. (See McCormick, A. L., Smith, and Crespinel, assignors.)

Clark, Charles C., assignor of forty per cent to G. Kleinsteiber, Jr., Marshall, Wis. Artificial bait. 2,281,480; Apr. 28.
Clark, Elvin C. and H. J., Montour, Iowa. Rear view mirror. 2,281,234; Apr. 28.
Clark, Ernest, Brockton, assignor to Abington Textile Machinery Works, Boston, Mass. Carding machine. 2,281,268; Apr. 28.
Clark, Frederick G. (See Clark, Frederick J. and F. G.)
Clark, Frederick J. and F. G., assignors to Eastman Machine Company, Buffalo, N. Y. Knife sharpening mechanism for cutting machines. 2,281,023; Apr. 28.
Clark, Harold J. (See Clark, E. C., and H. J.)
Clark, James M., Basile, La., assignor to Continental Oil Company, Ponca City, Okla. Combined bridge plug and drillable whipstock. 2,281,414; Apr. 28.
Clark, Leroy A., Miami, Fla. Traffic signal. 2,281,139; Apr. 28.
Clarke, Clement S., Shreveport, La. Respiratory mask. 2,281,181; Apr. 28.
Clausen, Sigurd, Brooklyn, N. Y., assignor to International Cigar Machinery Company. Needle construction for cigar wrapping mechanisms. 2,281,095; Apr. 28.
Clewell, Dayton H., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Gravity meter. 2,281,001; Apr. 28.
Clickner, Earle D., assignor to Shakespeare Company, Kalamazoo, Mich. Fishing reel. 2,281,481; Apr. 28.
Climax Machinery Company. (See Hennessy, Richard T., assignor.)
Coffman, Donald D., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polycster amides. 2,281,415; Apr. 28.
Cole, Sandford S., and W. K. Nelson, Metuchen, N. J., assignors to National Lead Company, New York, N. Y. Preparation of pigments comprising rutile titanium dioxide. 2,280,795; Apr. 28.
Colgate-Palmolive-Peet Company. (See Davey, W., and Ittner, assignors.)
Columbus Auto Parts Company, The. (See Flumerfelt, William A., assignor.)
Commercial Solvents Corporation. (See Lansing, Arthur C., assignor.)
Commercial Solvents Corporation. (See Vanderbilt, Byron M., assignor.)
Comstock, George F., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Phosphorus titanium steel. 2,280,796; Apr. 28.
Connor, James R., New York, N. Y. Exhibition device. 2,281,024; Apr. 28.
Consolidated Edison Company of New York, Inc. (See Metcalf, Charles N., assignor.)
Consolidated Water Power and Paper Company. (See Thiele, W. F., and Richmond, assignors.)
Continental Motors Corporation. (See Engstrom, William, assignor.)
Continental Oil Company. (See Clark, James M., assignor.)
Cook, Willard G., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Control system. 2,281,063; Apr. 28.
Cooper, Hugh S., New York, N. Y., assignor to Cooper-Wilford Beryllium, Ltd., Philadelphia, Pa. Fusing beryllium chloride. 2,281,235; Apr. 28.
Cooper-Wilford Beryllium, Ltd. (See Cooper, Hugh S., assignor.)
Cornwell, Ralph T. K. (See Reichel, F. H., and Cornwell.)
Costello, Timothy J., St. Paul, Minn. Corn drier. 2,281,269; Apr. 28.
Cote, George H., Bridgeport, Conn. Tool holder. 2,281,416; Apr. 28.
Cottrell, Robert B., assignor to American Steel Foundries, Chicago, Ill. Draft gear. 2,281,270; Apr. 28.
Cottrell, Roy H., and V. Jensen, Ogden, Utah. Recovery of sugar from molasses. 2,281,025; Apr. 28.
Courthope, Thomas F., Geneseo, S. Martin, Retsof, and R. G. Sickly, Geneseo, assignors to International Salt Company, Retsof, N. Y. Apparatus for dissolving rock salt. 2,281,140; Apr. 28.
Cowles, Irving, Detroit, Mich., assignor to said Cowles and R. W. Lotz, Chicago, Ill., as successor co-trustees of Vitality Patents Trust. Detachable hose coupling. 2,280,892; Apr. 28.
Cox, Irvin W., Milwaukee, Wis., assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Electromagnetic switch. 2,280,893; Apr. 28.
Crane, Carl J., Montgomery, Ala. Aerial flight instrument. 2,280,797; Apr. 28.
Crane, Carl J., and S. M. Burka, Dayton, Ohio. Panoramic sextant. 2,280,798; Apr. 28.
Crane Co. (See Ziegler, N. A., and Northrup, assignors.)
Crayton, Foster M., Philadelphia, Pa. Coupling. 2,281,482; Apr. 28.
Crespinel, William T. (See McCormick, A. L., Smith, and Crespinel.)
Crosby Naval Stores, Incorporated. (See Knapp, I. E., Price, and Brondum, assignors.)
Crosby Naval Stores, Incorporated. (See Price, R. E., and Knapp, assignors.)
Crowe Name Plate & Manufacturing Co. (See Benton, H. Z., and Morris, assignors.)
Crowley, John A., Jr. (See Simpson, T. P., Payne, and Crowley.)
Crucible Steel Company of America. (See Ferm, John F., assignor.)
Cullin, Jasper F., Detroit, Mich., assignor of two-thirds to L. Mervis, Lock Haven, Pa. Clutch mechanism. 2,281,141; Apr. 28.
Cullomer, Frank J., assignor of one-third to E. O. Steudel, Chicago, Ill. Toaster. 2,281,271; Apr. 28.
Cushman, Lee H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Steam generator. 2,280,894; Apr. 28.
Daimler-Benz Aktiengesellschaft. (See Nallinger, Fritz, assignor.)
Dallenbach, Walter, Berlin-Charlottenburg, E. Wilckens, Berlin-Sudende, and W. Pupp, Berlin-Kopenick, Germany. Ultra short wave radiator. 2,281,274; Apr. 28.
Darby, David A., assignor of one-half to G. F. Smith, Wichita Falls, Tex. Safety valve. 2,281,417; Apr. 28.
Darco Corporation. (See Pie, Paul F., Jr., assignor.)
Datin, Richard C., Petersburg, Va., assignor to The Solvay Process Company, New York, N. Y. Apparatus and method for dispersing liquids. 2,280,805; Apr. 28.
Davey, Warren, Montclair, and M. H. Ittner, assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J. Method and apparatus for hydrolyzing fats and oils. 2,281,534; Apr. 28.
Davidson, William W., Evanston, Ill. Printing press. 2,280,799; Apr. 28.
Davis, David R., Los Angeles, Calif. Fluid foil. 2,281,272; Apr. 28.
Davis, Ernest W., Oak Park, assignor to Stewart-Warner Corporation, Chicago, Ill. Portable pumping apparatus. 2,281,142; Apr. 28.
Dawson, John W., Auburndale, assignor to Raytheon Manufacturing Company, Newton, Mass. Arc welding device. 2,280,800; Apr. 28.
Day-Brite Lighting, Inc. (See Biller, David J., assignor.)
Dayton Rubber Mfg. Company, The. (See Freedlander, Abraham L., assignor.)
Dean, Dion K., Rahway, N. J., assignor to Foster Wheeler Corporation, New York, N. Y. Deodorization of animal and vegetable oils. 2,280,896; Apr. 28.
Deaton, William M., and E. M. Frost, Jr., Amarillo, Tex. Apparatus for determining the dew point of gases under pressure. 2,281,418; Apr. 28.
Deere & Company. (See Anderson, R. L., and Oehler, assignors.)
De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Composition of matter and a process for preventing water-in-oil type emulsions resulting from acidization of calcareous oil-bearing strata. 2,281,419; Apr. 28.
Dempsey, Lawrence E., Oak Park, and M. A. Blu, Bellwood, assignors to Sears, Roebuck and Co., Chicago, Ill. Bicycle construction. 2,280,801; Apr. 28.
Dempster, George R., Knoxville, Tenn. Transporting and dumping device. 2,281,183; Apr. 28.
Denman, George E., Oakland, Calif. Fluid controlled brake. 2,280,897; Apr. 28.
Dennison, Brook J., Aspinwall, assignor to Pittsburg Plate Glass Company, Allegheny County, Pa. Manufacturing laminated articles. 2,281,027; Apr. 28.
Depew, Harlan A., Gloucester City, N. J. Modifying organic chemical materials. 2,280,802; Apr. 28.
Desetti, Glid E., Woodbury, N. J., W. A. Dew and B. H. Mackey, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Solvent recovery from smokeless powder. 2,280,803; Apr. 28.
De Seversky, Alexander P., Asharoken Beach, Northport, N. Y., assignor to Republic Aviation Corporation. Ordnance mount. 2,280,804; Apr. 28.
Detroit Lubricator Company. (See Welby, Henry R., assignor.)
Dew, Walter A. (See Desetti, G. E., Dew, and Mackey.)
Dewey and Almy Chemical Company. (See Hoveman, John C., assignor.)
Diamond Match Company, The. (See Nicodemus, W. C., and Brown, assignors.)
Diamond Match Company, The. (See Nicodemus, Wilmer C., assignor.)
Diamond Match Company, The. (See Roberts, William, assignor.)
Dickerson, Dorman B., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Jointed hand brake lever. 2,281,143; Apr. 28.
Dickson, Robert B., assignor to Dickson Weatherproof Nail Company, Evanston, Ill. Making weatherproof nails. 2,281,028; Apr. 28.
Dickson Weatherproof Nail Company. (See Dickson, Robert B., assignor.)
Dilion, Ernest E., Indianapolis, Ind. Electric vacuum flue cleaner. 2,281,144; Apr. 28.
Disney, Walt, Productions. (See Garity, William E., assignor.)
Disney, Walt, Productions. (See Welser, Mary L., assignor.)
Ditto, Incorporated. (See Bjorksten, J., and Champion, assignors.)

Dodd, John W., Watertown, assignor to George T. McLauthlin Company, Boston, Mass. Lock mechanisms for elevator landing doors. 2,280,805; Apr. 28.
Dodds, Nugent, assignor to A. M. Houghton, Washington, D. C. Copyholder. 2,280,772; Apr. 28.
Dominion Engineering Works Limited. (See Malkin, Bernard A., assignor.)
Dow Chemical Company, The. (See Kauppi, Toivo A., assignor.)
Dow Chemical Company. (See Roehm, Luther S., assignor.)
Dow Chemical Company, The. (See Smith, Frank B., and Moll, assignors.)
Dowd, Bernard J., and H. J. Hart, West Hartford, Conn., assignors to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 2,280,806; Apr. 28.
Dowd, Bernard J., and H. J. Hart, West Hartford, Conn., assignors to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 2,280,807; Apr. 28.
Dowd, Bernard J., and H. J. Hart, West Hartford, Conn., assignors to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 2,280,808; Apr. 28.
Dowty, George H., Cheltenham, England. Aircraft landing gear. 2,281,351; Apr. 28.
Drader, Joseph C., Detroit, Mich., assignor to Michigan Tool Company. Built-up abrasive. 2,281,420; Apr. 28.
Drews, William C., Maywood, Ill. Pivotal means and assembly. 2,281,535; Apr. 28.
Dreyfus, Henry, London, England, assignor to Celanese Corporation of America. Production and treatment of packages of yarns and similar textile materials. 2,280,900; Apr. 28.
Duey, Harold S., Los Angeles, Calif. Pipe plug. 2,281,145; Apr. 28.
Dufour, René, Paris, and H. A. Leduc, Asnieres, France. Baking or vulcanizing india-rubber or similar materials. 2,280,771; Apr. 28.
Duncan, Hartvig A., Garden City, N. Y. Sheet metal clamp. 2,281,421; Apr. 28.
Dunham, Byron W. (See Bell, D. S., and Dunham.)
Du Pont, E. I., de Nemours & Company. (See Burke, W. J., and Peters, assignors.)
Du Pont, E. I. de Nemours & Company. (See Cass, Oliver W., assignor.)
Du Pont, E. I., de Nemours & Company. (See Coffman, Donald D., assignor.)
Du Pont, E. I., de Nemours & Company. (See Desetti, G. E., Dew, and Mackey, assignors.)
Du Pont, E. I., de Nemours & Company. (See Edgar, Donald E., assignor.)
Du Pont, E. I., de Nemours & Company. (See Ellis Earl T., assignor.)
Du Pont, E. I., de Nemours & Company. (See Hershberger, Albert, assignor.)
Du Pont, E. I., de Nemours & Company. (See Jebens, Walter J., assignor.)
Du Pont, E. I., de Nemours & Company. (See Lanning, Daniel D., assignor.)
Du Pont, E. I., de Nemours & Company. (See Sorenson, Ben E., assignor.)
DuVal, Ronald W., Petersburg, Va. Cutting machine. 2,281,422; Apr. 28.
Dyer, Lloyd W. (See Gamel, G. D., and Dyer.)
Dyer, Lloyd W., Wilkinsburg, and G. D. Gamel, Verona, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh Pa. Capacitor tripping-device for circuit breakers. 2,280,898; Apr. 28.
Dyer, Lloyd W., Wilkinsburg, and G. D. Gamel, Verona, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Undervoltage mechanism for circuit breakers. 2,280,899; Apr. 28.
Dykstra, Laurence J., and E. M. Meyer, Rochester, assignors to Victor Insulators, Inc., Victor, N. Y. Apparatus for partially drying moist clay bodies. 2,281,184; Apr. 28.
Eagle Lock Company. (See Nelson, Robert C., assignor.)
Earle, Ralph H., Wauwatosa, assignor to Line Material Company, Milwaukee, Wis. Fuse link. 2,281,029; Apr. 28.
Eastman Machine Company. (See Clark, Frederick J. and F. G., assignors.)
Eck, John R., Solana Beach, Calif., assignor of one-fourth to O. Nelson and one-fourth to M. M. Myers. Air conditioning device. 2,281,002; Apr. 28.
Eckman, Pauline S., San Francisco, Calif. Strip holder. 2,281,236; Apr. 28.
Eckman, Pauline S., San Francisco, Calif. Packaging polishing disks, and holder therefor. 2,281,237; Apr. 28.
Eddy, Allan F. (See Eddy, R. F., Moeller, Wilcox, and Eddy.)
Eddy, Robert F., E. W. Moeller, R. R. Wilcox and A. F. Eddy, South Pasadena, Calif. Vending machine. 2,280,810; Apr. 28.
Eddy, Robert F., E. W. Moeller, R. R. Wilcox, and A. F. Eddy, South Pasadena, Calif. Vending machine. 2,281,191; Apr. 28.
Eddy, William C., Port Washington, N. Y., assignor to Radio Corporation of America. Illumination device. 2,280,901; Apr. 28.
Edgar, Donald E., Philadelphia, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing laminated material. 2,281,483; Apr. 28.
Edgewater Steel Corporation. (See Bell, D. S., and Dunham, assignors.)
Edhofer, Georg, and G. Wolff, assignors to Dr. Alexander Wacker Ges. für elektrochemische Industrie m. b. H., Munich, Germany. Treating articles with volatile solvents. 2,280,811; Apr. 28.
Egge, Klaus, Mount Lehanon, Pa. Apparatus for handling coils. 2,281,423; Apr. 28.
Eggert, John, Leipzig-Gohlis, and W. Schultze, Dessau, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Photographic subtractive multi-color picture. 2,281,273; Apr. 28.
Elberty, Robert S., Jr., assignor to Landis Tool Company, Waynesboro, Pa. Adjustable speed drive. 2,281,518; Apr. 28.
Electric & Musical Industries Limited. (See Lubszynski, Hans G., assignor.)
Electric & Musical Industries Limited. (See White, Eric L. C., assignor.)
Electrolux Corporation. (See Stevens, Clarence E., assignor.)
Electro Metallurigical Company. (See Kinzel, Augustus B., assignor.)
Ellinger, Flora H., Chicago, Ill. Dishwashing spray head. 2,281,484; Apr. 28.
Ellis, Earl T., Petersburg, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Purification. 2,280,812; Apr. 28.
Ellison, Wilfred J., Norden, Rochdale, assignor to Turner and Newall Limited, Spotland, Rochdale, England. Opening and cleansing of asbestos fibrous material. 2,280,902; Apr. 28.
Ellison, Wilfred J., Norden, Rochdale, assignor to Turner and Newall Limited, Spotland, Rochdale, England. Separation and recovery of short fibrous asbestos from granular asbestos-bearing rock. 2,280,903; Apr. 28.
Endowment Foundation. (See Farnham, Richard B., assignor.)
Englehart, Oscar D., Brackenridge, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Multiple glazed unit. 2,281,064; Apr. 28.
Englert, Walter J., assignor to Flower City Specialty Company, Rochester, N. Y. Coin box. 2,281,424; Apr. 28.
Engs, William, Piedmont, Calif., H. P. A. Groll, Hamburg-Wellingsbuttel, Germany, and A. W. Fairbairn, Oakland, assignors to Shell Development Company, San Francisco, Calif. Production of unsaturated halogen-containing compounds. 2,281,096; Apr. 28.
Engstrom, William, Muskegon, assignor to Continental Motors Corporation, Detroit, Mich. Engine. 2,280,942; Apr. 28.
Enos, John P., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Hemmer attachment for sewing machines. 2,281,275; Apr. 28.
Erekson, Arthur B., Plymouth, Wis., assignor to The Borden Company, New York, N. Y. Packaging. 2,280,904; Apr. 28.
Erickson, C. E., Company. (See Erickson, Ernest R., assignor.)
Erickson, Ernest R., assignor to C. E. Erickson Company, Incorporated, Des Moines, Iowa. Display rack. 2,281,192; Apr. 28.
Ernst, Walter, Mount Gilead, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del. Electrical control system for presses. 2,281,276; Apr. 28.
Esecson, Simon, Malden, Mass. Skirt marker. 2,281,425; Apr. 28.
Eustis, Irving N., assignor to Fairmont Railway Motors, Inc., Fairmont, Minn. Set-off skids for railway vehicles. 2,281,066; Apr. 28.
Evans, George D., Upper Darby, Pa. Wing locking pin warning device. 2,280,809; Apr. 28.
Evershed & Vignoles Limited. (See Wright, Ralph T., assignor.)
Ewald, Raymond L., and H. A. Skog, Olympia, Wash., assignors to Special Equipment Company, Portland, Oreg. Fruit treating apparatus. 2,280,813; Apr. 28.
Faber, Elwood C., Manheim Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Wallboard fastener. 2,281,519; Apr. 28.
Fafnir Bearing Company, The. (See Reynolds, H. R., and Hilles, assignors.)
Fahrenwald, Arthur W., Moscow, Idaho, assignor to Northwest Magnesite Company, Chewelah, Wash. Flotation of magnesite and the like magnesium ores. 2,280,905; Apr. 28.
Fair, Ina P., Detroit, Mich. Ironing board. 2,281,030; Apr. 28.
Fairbairn, Alasdair W. (See Engs, W., Groll, and Fairbairn.)
Fairmont Railway Motors, Inc. (See Eustis, Irving N., assignor.)

Farnham, Richard B., Cranbury, assignor to Endowment Foundation, New Brunswick, N. J. Plant growing and feeding pot. 2,281,068; Apr. 28.
Farr, Warren H., Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Piston ring and making same. 2,281,426; Apr. 28.
Farrel-Birmingham Company. (See Kuhns, A., and Gasser, assignors.)
Fayman, Hubert M., Kansas City, Mo. Liquid lifting device. 2,281,146; Apr. 28.
Fellowes, Harry L., assignor to Bankers Box Company, Chicago, Ill. File box closure fastening. 2,281,486; Apr. 28.
Fellows, Albert T., Irvington, N. J., assignor by mesne assignments to Allied Chemical & Dye Corporation. Separation of sodium phenolate from sodium sulphite. 2,281,485; Apr. 28.
Felsing, Howard, Wheeling, W. Va., assignor to William H. Warren, Steubenville, Ohio, and James A. Baker, Pittsburgh, Pa. Stool for ingot molds. 2,280,906; Apr. 28.
Ferguson, J. L., Company. (See Ferguson, John Lee, assignor.)
Ferguson, John L., assignor to J. L. Ferguson Company, Joliet, Ill. Carton opening, folding, and positioning machine. 2,280,773; Apr. 28.
Ferm, John F., Midland, Pa., assignor to Crucible Steel Company of America of America, New York, N. Y. Apparatus for handling metal strip. 2,280,943; Apr. 28.
Fernholz, Erhard, Princeton, assignor to Merck & Co., Inc., Rahway, N. J. Ethers of durohydroquinone and preparing same. 2,280,814; Apr. 28.
Fernholz, Erhard, Princeton, assignor to E. R. Squibb & Sons, New York, N. Y. Obtaining sterols. 2,280,815; Apr. 28.
Fidelity Union Trust Company, executor. (See Laise, Clemens A.)
Fink, Morris, New York, N. Y. Display assemblage. 2,280,907; Apr. 28.
Finkel, Maurice, Philadelphia, and William P. Schmid, Yeadon, Pa. Phonograph delivery mechanism. 2,281,487; Apr. 28.
Finnell System, Inc. (See Finnell, Walter S., assignor.)
Finnell, Walter S., Elkhart, Ind., assignor to Finnell System, Inc. Scarificator. 2,281,278; Apr. 28.
Fitz Gerald, John W., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Drive transmission. 2,281,277; Apr. 28.
Flower City Specialty Company. (See Englert, Walter J., assignor.)
Flumerfelt, William A., assignor to The Columbus Auto Parts Company, Columbus, Ohio. Joint construction. 2,281,097; Apr. 28.
Folkers, Karl, Plainfield, and F. Koniuszy, assignors to Merck & Co., Inc., Rahway, N. J. Alkaloids of species of erythrina and processes for their production. 2,280,816; Apr. 28.
Folkers, Karl. (See Major, R. T., and Folkers.)
Foresman, Robert A., Prospect Park, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Material-handling apparatus. 2,280,944; Apr. 28.
Förster, Friedrich, Berlin, Germany. Building element. 2,281,185; Apr. 28.
Foster Wheeler Corporation. (See Dean, Dion K., assignor.)
Fox, David A., Milwaukee, Wis. Candle construction. 2,281,279; Apr. 28.
Fox, Wilfred R., Flint, Mich. Container. 2,281,303; Apr. 28.
Francey, William J., Syracuse, assignor to United States Hoffman Machine Corporation, New York, N. Y. Drain platform for washing machines. 2,281,031; Apr. 28.
Franklin, Ralph E., and E. D. Thorne, Patchogue, N. Y., assignors to Radio Corporation of America. Variable condenser. 2,281,147; Apr. 28.
Fray, Russel R. (See Hubbard, Kuteman D., assignor.)
Freedlander, Abraham L., assignor to The Dayton Rubber Mfg. Company, Dayton, Ohio. Wrapped belt. 2,281,148; Apr. 28.
Freeland, Ernest C., Abington Township, Montgomery County, assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Radio receiver. 2,281,488; Apr. 28.
Freeman, Arthur C., assignor of one-half to Joseph L. Young, Norfolk, Va. Illuminated flag. 2,280,817; Apr. 28.
Freer, Walter J. Philadelphia, Pa. Thread tensioner. 2,281,427; Apr. 28.
Frey, Frederick E., R. D. Snow and W. A. Schulze, assignors to Phillips Petroleum Company, Bartlesville, Okla. Catalytic production of olefin-sulphur dioxide compounds of high molecular weight. 2,280,818; Apr. 28.
Fritz, Edward M., assignor to Grand Rapids Cabinet Company, Grand Rapids, Mich. Storage cabinet. 2,281,489; Apr. 28.
Frost, Ellis M., Jr. (See Deaton, W. M., and Frost, Jr.)
Fuller Brush Company, The. (See Cave, H., and Le Febvre, assignors.)
Fuller, Everett W., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Stabilized mineral oil composition. 2,281,520; Apr. 28.
Fuller, Everett W., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Stabilized lubricating oil. 2,281,521; April 28.
Fulton Company, The. (See Thorp, Joel R., assignor.)
Funkhauser Company, The. (See Nichols, Ernest H., assignor.)
Gabor, Dennis, Rugby, England, assignor to General Electric Company. Light relay. 2,281,280; Apr. 28.
Galena, William, Fergus Falls, Minn. Holder for toilet paper. 2,281,032; Apr. 28.
Gamel, Gayne D. (See Dyer, L. W., and Gamel.)
Gamel, Gayne D., Verona, and L. W. Dyer, Wilkinsburg, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Capacitor tripping device for circuit breakers. 2,280,945; Apr. 28.
Garey, George E., Downs, Kans. Tractor wheel rim. 2,280,908; Apr. 28.
Garity, William E., assignor to Walt Disney Productions, Los Angeles, Calif. Producing animated photoplays. 2,281,033; Apr. 28.
Gaspar, Bela, Brussels-Forest, Belgium, assignor to Chromogen, Incorporated. Color photographic multilayer material. 2,281,149; Apr. 28.
Gaspar, Bela, Hollywood, Calif., assignor to Chromogen, Incorporated. Producing color photographs. 2,281,281; Apr. 28.
Gasser, Emil R. (See Kuhns, A., and Gasser.)
Geimer, William J., assignor to Bemis Bro. Bag Co., Minneapolis, Minn. Multiply paper bag. 2,280,819; Apr. 28.
Geiselman, Ralph A., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Regulating system. 2,281,034; Apr. 28.
General Aniline & Film Corporation. (See Eggert, J., and Schultze, assignors.)
General Electric Company. (See Gabor, Dennis, assignor.)
General Electric Company. (See Neufeld, Jakob, assignor.)
General Electric Company. (See Newell, Heber L., assignor.)
General Electric Company. (See Nowak, Paul, assignor.)
General Electric Company. (See Ramo, Simon, assignor.)
General Electric Company. (See Saint-Germain, J. M., and Balachowsky, assignors.)
General Electric Company. (See Steenstrup, Christian, assignor.)
General Electric Company. (See Stegelitz, H., and Schreiner, assignors.)
General Fireproofing Company. (See Straubel, Clarence W., assignor.)
General Motors Corporation. (See McDougal, Taine G., assignor.)
Gerhold, Clarence G., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,281,282; Apr. 28.
Germond, John W. (See Wilson, F. V., Jr., and Germond.)
Gillette Safety Razor Company. (See Muros, Joseph, assignor.)
Gillespie, John E., assignor of one-half to Sherman C. Shelton, Washington, D. C. Razor strop container and supporting device. 2,281,428; Apr. 28.
Gillian, Joseph L., assignor to Hummel & Downing Company, Milwaukee, Wis. Packing and shipping carton. 2,281,304; Apr. 28.
Glenn, Marlow. (See Hewitt, Walter, assignor.)
Glover, Thomas S., Airdrie, Scotland. Shackle. 2,280,909; Apr. 28.
Goddard, De Witt R., Riverhead, N. Y., assignor to Radio Corporation of America. Antenna. 2,281,429; Apr. 28.
Goepfrich, Rudolph A., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake. 2,281,150; Apr. 28.
Goetz, William. (See Campana, F. R., and Goetz.)
Goldsmith, Alfred N., New York, N. Y. Thermal optical image reproducing system. 2,280,946; Apr. 28.
Gollub, Heinz. (See Willwacher, E., and Gollub.)
Goodman Manufacturing Company. (See Pray, Thomas E., assignor.)
Goodrich, B. F. Company, The. (See Kenner, Cecil E., assignor.)
Goodrich, B. F., Company, The. (See Olson, F. F., and L'Hollier, assignors.)
Gorad, Samuel. (See Arye, Jacob G., assignor.)
Gowdy, Robert C. (See Bart, T. E., Gowdy, and Zugelter.)
Gowdy, Robert C., assignor to The Murdock Manufacturing and Supply Company, Cincinnati, Ohio. Antifreeze, antipollution fresh water connection. 2,280,820; Apr. 28.
Government of the United States of America, represented by the Secretary of the Treasury. (See Rosenthal, S. M., and Bauer, assignors.)
Granberg, Albert J., and T. A. McCoy, Oakland, assignors to Granberg Equipment Inc., Emeryville, Calif. Fluid meter. 2,281,490; Apr. 28.
Granberg Equipment Inc. (See Granberg, A. J., and McCoy, assignors.)
Grand Rapids Cabinet Company. (See Fritz, Edward M., assignor.)

Granger, Earl C., Alameda, Calif. Combined hook and clasp fastener. 2,281,151; Apr. 28.
Grant, David M., St. Louis, Mo. Refrigerator. 2,281,430; Apr. 28.
Gray, Orrin D., Chicago, Ill. Nut. 2,280,821; Apr. 28.
Green, Estill I., Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Repeatered transmission system. 2,281,035; Apr. 28.
Greenwood, Quentin E., Flushing, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Feedback amplifier. 2,281,238; Apr. 28.
Groenema, Jan J., The Hague, and Hermannus van Tongeren, Heemstede, Netherlands. Boiler. 2,281,431; Apr. 28.
Grohn, Fred W., et al. (See Grohn, Henry P., assignor.)
Grohn, Henry P., assignor of fifty per cent to J. J. Pubins, seventeen and one-half per cent to F. Kunza, seven and one-half per cent to F. W. Grohn, and five per cent to G. Skly, Chicago, Ill. Automatic mechanical power cutout. 2,281,432; Apr. 28.
Groll, Herbert P. A. (See Enge, W., Groll, and Fairbairn.)
Grover, Lyndon V., assignor to Grover Products Company, Los Angeles, Calif. Horn. 2,281,539; Apr. 28.
Grover Products Company. (See Grover, Lyndon V., assignor.)
Guerin, Paul R. (See Lehmann, M., and Guerin.)
Gulf Oil Corporation. (See MacDonald, Gordon C., assignor.)
Gulliksen, Finn H., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Consistency regulator. 2,280,947; Apr. 28.
Gulliksen, Finn H., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Inspection scheme. 2,280,948; Apr. 28.
Gunn, Douglas W., Toronto, Ontario, Canada. Jar closure. 2,281,433; Apr. 28.
Haast, William E., Miami, Fla. Vapor separator. 2,281,283; Apr. 28.
Hadley, Oscar V. (See Rah, J. C., and Hadley.)
Haist, Wade E., Aurora, Ill., and P. F. Thomas, La Crosse, Wis. Railroad ballast dresser. 2,281,491; Apr. 28.
Haist, Wade E., Aurora, Ill., and P. F. Thomas, La Crosse, Wis. Railroad ballast dresser. 2,281,492; Apr. 28.
Hale, George E. (See Ruskin, Henry, assignor.)
Hall, Nathan I., Long Island City, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric signaling. 2,280,949; Apr. 28.
Hamilton, W. C., & Sons. (See Hanson, Hugo H., assignor.)
Hammond Company, The. (See Hammond, Grant, assignor.)
Hammond, Grant, West Haven, assignor to The Hammond Company, New Haven, Conn. Carburetor. 2,281,285; Apr. 28.
Hammond Instrument Company. (See Hammond, Laurens, assignor.)
Hammond, Laurens, Chicago, Ill. Altitude determining means and method. 2,281,284; Apr. 28.
Hammond, Laurens, Evanston, assignor to Hammond Instrument Company, Chicago, Ill. Electric clock. 2,281,493; Apr. 28.
Hanimond, Laurens, Evanston, assignor to Hammond Instrument Company, Chicago, Ill. Clock. 2,281,494; Apr. 28.
Hammond, Laurens, Chicago, Ill. Frequency generator. 2,281,495; Apr. 28.
Hannaford, Cleon M., Toledo, Ohio, deceased, by M. L. Hannaford, as executrix. Combined journal box seal and cover retainer. 2,281,352; Apr. 28.
Hannaford, Marie L., as executrix. (See Hannaford, Cleon M., assignor.)
Hannon, Albert H., Springfield, Ohio. Conveyer drive for processing machines. 2,281,305; Apr. 28.
Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Frequency modulated radio relaying system. 2,280,822; Apr. 28.
Hansen, John, Seattle, Wash., assignor to American Can Company, New York, N. Y. Feeding device. 2,280,823; Apr. 28.
Hansen, William W., and R. H. Varian, assignors to Board of Trustees of the Leland Stanford, Junior, University, Stanford University, Calif. Radio transmission and reception. 2,280,824; Apr. 28.
Hanson, Edna. (See Nelson, Clarence D., assignor.)
Hanson, Hugo H., Philadelphia, assignor to W. C. Hamilton & Sons, Miquon, Pa. Air drier for paper. 2,281,496; Apr. 28.
Harder, Edwin L., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Pilot wire system with means for neutralizing induced voltages. 2,280,950; Apr. 28.
Harding, William G., Whitton, and R. H. Nisbet, Osterley, England, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Correction device for gyroscopic compasses and the like. 2,281,286; Apr. 28.
Harischfeger Corporation. (See Hettelsater, Henry C., assignor.)
Harrison, Harold C. (See Nadal, A., and Harrison.)
Hart, Henry J. (See Dowd, B. J., and Hart.)
Hass, Henry B., West Lafayette, assignor to Purdue Research Foundation, Lafayette, Ind. Pesticidal composition. 2,281,239; Apr. 28.
Hazard, William H., assignor to A. Y. McDonald Mfg. Co., Dubuque, Iowa. Lubricating means. 2,280,910; Apr. 28.
Hearn, Walter R., G. J. Snook and A. J. Challeen, Los Angeles, Calif., assignors of forty-two and one-half per cent to said Hearn, forty-two and one-half per cent to said Snook, and fifteen per cent to said Challeen. Manifold vent control. 2,281,287; Apr. 28.
Heftler, Paul, Chicago, Ill. Die set for making metal-edge filters. 2,281,439; Apr. 28.
Helsten, Wesley A. (See Baselt, W. H., and Helsten.)
Henex, S. A. (See Smead, E. L., and Sadtler, assignors.)
Hennessy, Richard T., assignor to Climax Machinery Company, Indianapolis, Ind. Connector. 2,281,098; Apr. 28.
Henry, Earle G., Chicago, Ill., assignor to Buckley Music System, Inc. Control system for automatic phonographs. 2,281,435; Apr. 28.
Henson, William H., and K. H. Bird, assignors to Norton Company, Worcester, Mass. Refractory brick. 2,281,003; Apr. 28.
Hercules Powder Company. (See Stern, Raphael L., assignor.)
Hershberger, Albert, Buffalo, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Stable rubber hydrochloride composition. 2,281,436; Apr. 28.
Hershberger, Albert, Buffalo, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Age resistant rubber hydrochloride. 2,281,437; Apr. 28.
Hershman, Okla H., Indianapolis, Ind. Highway signal. 2,280,951; Apr. 28.
Herzbrun, Isadore, and C. F. Schultis, Cleveland, Ohio. Shower bath spray head. 2,281,499; Apr. 28.
Heslet, Charles G., and E. C. Layman, assignors to Acme Steel Company, Chicago, Ill. Strap stretching device. 2,281,438; Apr. 28.
Hettelsater, Henry C., assignor to Harnischfeger Corporation, Milwaukee, Wis. Braking system. 2,281,288; Apr. 28.
Hetzel, John A., Jersey City, N. J., assignor to Whitlock Cordage Company, New York, N. Y. Rope structure. 2,281,036; Apr. 28.
Hewitt, Walter, Longmire, Wash., assignor of one-half to Marlow Glenn, Washington, D. C. Snowplow. 2,281,289; Apr. 28.
Higgins, Frank W., Cranston, R. I. Knotter. 2,281,290; Apr. 28.
Hilderbrandt, Friedrich. (See Schoeller, W., Hilderbrandt, and Schwenk.)
Hilles, Ladonace A. (See Reynolds, H. R., and Hilles.)
Hi-Way Service Corporation. (See Kerber, Joseph H., assignor.)
Hodsdon, Sumner M., and A. A. Tidd, Wilton, Maine. Card breast waste saving apparatus for carding machines. 2,280,911; Apr. 28.
Hofer, Rudolf, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Modulation system. 2,281,069; Apr. 28.
Hoffer, Max, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Derivatives of α-cyano-γ-acetyl-glutaric acid and process for the manufacture thereof. 2,280,774; Apr. 28.
Hoffmann- La Roche Inc. (See Hoffer, Max, assignor.)
Hoffmann, Victor A., Harvey, Ill. Pipe fitting. 2,280,952; Apr. 28.
Holden, Crofton C., assignor to Tilton & Cook Co., Leominster, Mass. Hair curler. 2,281,291; Apr. 28.
Holdsworth, Willie, Seekonk, Mass. Gill drawing frame. 2,281,240; Apr. 28.
Holley, Earl, et al. (See Campbell, John F., assignor.)
Holley, George M., et al. (See Campbell, John F., assignor.)
Hollingsworth, Campbell, New York, N. Y. Burglar alarm. 2,281,193; Apr. 28.
Hollingsworth, Thomas P., Lincoln, Kans. Protective device. 2,281,152; Apr. 28.
Holman, Arthur J., East Orange, N. J. Combined fire shutter automatic control and film movement stabilizing device. 2,280,825; Apr. 28.
Holmes, Eric L., L. E. Holmes and W. G. Prescott, London, England, assignors, by mesne assignments, to The Permutit Company, New York, N. Y. Water treatment process and material. 2,281,194; Apr. 28.
Holmes, Lucie E. (See Holmes, E L., L. E., and Prescott.)
Homans, William P., Canton, assignor to Atkinson, Haserick & Co., Boston, Mass. Bobbin receiving and holding receptacle. 2,281,440; Apr. 28.
Homasote Company, Incorporated. (See Wilson, F. V., Jr., and Germond, assignors.)
Hoover, Arthur L., Avery, Milan Township, Erie County, Ohio. Coupling means. 2,281,292; Apr. 28.
Hopkins, Henry, Grosse Pointe, assignor to No-Sag Spring Company, Detroit, Mich. Spring structure. 2,280,912; Apr. 28.
Horn, Harry J., assignor to Motor Wheel Corporation, Lansing, Mich. Vehicle wheel. 2,281,153; Apr. 28.
Horton, Arthur W., Jr., South Orange, N. J., and M. E. Mohr, Jamaica, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric signaling. 2,281,441; Apr. 28.

Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Filling machine. 2,280,826; Apr. 28.
Houdaille-Hershey Corporation. (See Dickerson, Dorman B., assignor.)
Houdaille-Hershey Corporation. (See Jandus, H. S., and Buchanan, assignors.)
Houghton, Alfred M. (See Dodds, Nugent, assignor.)
Hoveman, John C., Paris, France, assignor to Dewey and Almy Chemical Company, Cambridge, Mass. Freezing and preserving foodstuffs. 2,280,827; Apr. 28.
Hromadko, Joseph, Hamden, Conn. Radiator. 2,281,154; Apr. 28.
Hubbard, Kuteman D., Los Angeles, assignor to R. R. Fray, Beverly Hills, Calif. Full universal all-speed milling attachment. 2,281,353; Apr. 28.
Hudson, Dwight C., deceased, late of Chicago, Ill., by E. C. Hudson, administratrix, Chicago, Ill. Hair drier. 2,281,354; Apr. 28.
Hudson, Eleanor C., as administratrix. (See Hudson, Dwight C., deceased.)
Hugh, Percy G. (See North, O. D., and Hugh.)
Hummel & Downing Company. (See Gillian, Joseph L., assignor.)
Hummel, Stuart K., Joliet, and P. W. Swern, Chicago, Ill. Bassinet unit. 2,280,913; Apr. 28.
Humphreys & Glasgow Limited. (See Smith, Joseph H., assignor.)
Huntoon, Russell C., assignor to Solar Aircraft Company, San Diego, Calif. Exhaust structure. 2,280,953; Apr. 28.
Hydraulic Development Corp. Inc., The. (See Ernst, Walter, assignor.)
Hydraulic Development Corp. Inc. (See Muller, Johan A., assignor.)
Hydraulic Development Corp. Inc. (See Pocock, Paul C., assignor.)
Hynson, Westcott & Dunning, Incorporated. (See Brewer, John H., assignor.)
Hyson, John A., Merwood Park, and J. H. Kerrick, assignors to The Philadelphia and Reading Coal and Iron Company, Philadelphia, Pa. Mixing fuels. 2,281,497; Apr. 28.
Hyson, John A., Merwood Park, and J. H. Kerrick, assignors to The Philadelphia and Reading Coal and Iron Company, Philadelphia, Pa. Fuel loading and intermixing method. 2,281,498; Apr. 28.
Industrial Patents Corporation. (See McKee, Harry H., assignor.)
Industrial Rayon Corporation. (See Bergmann, Richard F., assignor.)
Inhoffen, Hans H., Berlin-Wilmersdorf, Germany, assignor to Schering Corporation, Bloomfield, N. J. Manufacture of compounds of the cyclopentano-polyhydrophenanthrene series. 2,280,828; Apr. 28.
International Business Machines Corporation. (See Bryce, James W., assignor.)
International Cigar Machinery Company. (See Clausen, Sigurd, assignor.)
International Salt Company. (See Courthope, T. F., Martin, and Sickly, assignors.)
International Standard Electric Corporation. (See Labin, Emile, assignor.)
Intertype Corporation. (See Bittner, John W., assignor.)
Irving, Henry F., and F. E. Williams, assignors to Marbon Corporation, Gary, Ind. Producing rubber hydrochloride and like products. 2,281,355; Apr. 28.
Ittner, Martin H. (See Davey, W., and Ittner.)
Jackson, Leslie K. (See Lithgow, J., and Jackson.)
Jacob, Fred. (See Jacob, Louis, assignor.)
Jacob, Louis, New York, assignor to Fred Jacob, Bronx, N. Y. Sinew extracting device. 2,281,442; Apr. 28.
Jacobs, Frank C., New Kensington, Pa. Packing. 2,281,195; Apr. 28.
Jaeger, Charles F., Ferndale, Mich. Building. 2,281,500; Apr. 28.
Jandus, Herbert S., and H. Buchanan, assignors to Houdaille-Hershey Corporation, Detroit, Mich. Nondrag brake lever. 2,281,155; Apr. 28.
Jeffers, Charles M., St. Joseph, Mo. Weight attachment for platform beam scales. 2,281,306; Apr. 28.
Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)
Jaynes, Harry R., Manheim Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Clamp for gripping the adjacent edges of sheet material. 2,281,522; Apr. 28.
Jebens, Walter J., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coated cellulosic film. 2,280,829; Apr. 28.
Jeffrey Manufacturing Company, The. (See Strawn, Orval R., assignor.)
Jelenko, J. F., & Co. Inc. (See Berger, Herbert R., assignor.)
Jenkins, Tazewell H., Chicago, Ill. Holder for ears of corn. 2,281,501; Apr. 28.
Jennings, Charles H., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Welding. 2,281,070; Apr. 28.
Jensen, Vernal. (See Cottrell, R. H., and Jensen.)
Jewell, Arthur G., et al. (See Wurster, Lewis, assignor.)
Jewell, Elwood A., et al. (See Wurster, Lewis, assignor.)
Johns, Francis J., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Temperature protection for industrial motors. 2,280,914; Apr. 28.
Johnson, Emil, Salt Lake City, Utah. Drive for shallow water boats. 2,281,156; Apr. 28.
Johnson, Ernest L., Ferguson, Mo. Tool. 2,281,307; Apr. 28.
Johnson, James R., New London, Conn. Mechanism for the manufacture of comfortables, quilts, and the like. 2,281,308; Apr. 28.
Johnson, John B. (See Calbick, C. J., and Johnson.)
Johnson, John H., Toronto, Ontario, Canada. Device for irrigating and treating wounds. 2,280,915; Apr. 28.
Johnson, Joseph W., Middleton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Colloidal dispersion. 2,280,830; Apr. 28.
Johnson, Oscar W., Rochester, N. Y., assignor to The American Laundry Machinery Company, Norwood, Ohio. Centrifugal apparatus. 2,280,916; Apr. 28.
Johnson, Victor R., Chicago, Ill. Ear muff. 2,281,357; Apr. 28.
Johnstone, Warren W., and W. L. Benedict, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,281,356; Apr. 28.
Jolley, David A., and J. P. Scarborough, Kannapolis, N. C. Coating apparatus for yarn holders. 2,281,358; Apr. 28.
Jones, Arthur E., assignor to Posture Research Corporation, Elkhart, Ind. Chair. 2,281,037; Apr. 28.
Jones, Arthur E., assignor to Posture Research Corporation, Elkhart, Ind. Chair. 2,281,038; Apr. 28.
Jones, Charles L., Dormont, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Mounting for protective discharge devices. 2,280,917; Apr. 28.
Jones, Elmer L., Indio, Calif. Scaffold jack. 2,281,039; Apr. 28.
Jones, Walter I., Belmont, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Rotary operated fastener installation with rotary operated fastener. 2,281,443; Apr. 28.
Julin, Victor T., Djursholm-Danderyd, Sweden. Flow regulator. 2,281,444; Apr. 28.
Kahn, Leo M., New York, N. Y., assignor to The American Laundry Machinery Company, Norwood, Ohio. Folding machine. 2,280,954; Apr. 28.
Kahn, Leo M., New York, N. Y., assignor to The American Laundry Machinery Company, Norwood, Ohio. Folding machine. 2,280,955; Apr. 28.
Kahn, Leo M., New York, N. Y., assignor to The American Laundry Machinery Company, Norwood, Ohio. Folding machine timing mechanism. 2,280,956; Apr. 28.
Kahn, Leo M., New York, N. Y., assignor to The American Laundry Machinery Company, Norwood, Ohio. Folding machine. 2,280,957; Apr. 28.
Kaiser, Robert A., Glendale, N. Y., assignor to Republic Aviation Corporation. Ordnance. 2,281,502; Apr. 28.
Kalb, Robert M., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Thermionic relay circuit. 2,281,040; Apr. 28.
Kamlet, Jonas, Brooklyn, N. Y., assignor to Miles Laboratories, Inc., Elkhart, Ind. Preparation of orthohydroxy-cinnamic acid. 2,280,918; Apr. 28.
Kantor, James, assignor to The Liquid Carbonic Corporation, Chicago, Ill. Beverage mixing machine. 2,281,540; Apr. 28.
Kanuch, John, and E. F. Wichorek, assignors to Pump Engineering Service Corporation, Cleveland, Ohio. Oil pump seal assembly. 2,281,157; Apr. 28.
Kauppi, Toivo A., assignor to The Dow Chemical Company, Midland, Mich. Solvent-resistant ethyl cellulose film. 2,281,445; Apr. 28.
Keene, Alvin D., and T. S. Krebs, assignors to Samson-United Corporation, Rochester, N. Y. Electric toaster operating mechanism. 2,281,241; Apr. 28.
Keene, William J., assignor to Chicago Spring Hinge Company, Chicago, Ill. Hinge. 2,281,158; Apr. 28.
Keiser, Bernhard. (See De Groote, M., and Keiser.)
Kelly, James W., assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 2,280,958; Apr. 28.
Kelsey-Hayes Wheel Company. (See Sinclair, Charles W., assignor.)
Kennedy, Dewey M., Rochester, N. Y. Infant's bathing device. 2,281,309; Apr. 28.
Kennedy, Truman H., McKeesport, Pa., assignor to National Tube Company. Tuyère shield. 2,281,310; Apr. 28.
Kenner, Cecil E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Plow tail wheel. 2,281,359; Apr. 28.
Kerber, Joseph H., assignor to Hi-Way Service Corporation, Milwaukee, Wis. Road shoulder maintainer. 2,281,360; Apr. 28.
Keresztesy, John C., Rahway, and J. R. Stevens, Plainfield, assignors to Merck & Co., Inc., Rahway, N. J. Lower alkyl ethers of vitamin B_6 and preparing the same. 2,280,831; Apr. 28.
Kerr, Walter T., St. Margarets-on-Thames, assignor to Sisal Pulp Syndicate Limited, London, England. Extraction of cellulose fibers from lignified fibrous material. 2,281,504; Apr. 28.

Kerrick, Joseph N. (See Hyson, J. A., and Kerrick.)
Ketcham, Alvin C., Chevy Chase, Md. Building. 2,280,832; Apr. 28.
Kilmer, Guy T., Middle Grove, N. Y. Churn attachment. 2,281,242; Apr. 28.
Kinney, John W., Jr. (See Murdock, R. J., Bart, Zugelter, and Kinney.)
Kinzel, Augustus B., Douglaston, Long Island, N. Y., assignor to Electro Metallurgical Company. Treatment of cast metals. 2,280,833; Apr. 28.
Kirkland, William L., Waban, Mass. Paving composition and preparation of same. 2,281,505; Apr. 28.
Kjellberg, Carl F. G., Stockholm, Sweden. Internal combustion engine. 2,281,506; Apr. 28.
Kleinsteiber, George, Jr. (See Clark, Charles C., assignor.)
Kliesrath, Victor W., and R. P. Breese, New York, N. Y., assignors to Bendix Aviation Corporation, South Bend, Ind. Transmission operating mechanism. 2,281,150; Apr. 28.
Klose, Alvin A. (See Almquist, H. J., and Klose.)
Knapp, Ismond E. (See Price, R. E., and Knapp.)
Knapp, Ismond E., R. E. Price, and H. A. Brondum, assignors to Crosby Naval Stores, Incorporated, Pieayune, Miss. Recovering alcohol from alcoholic mixtures. 2,281,311; Apr. 28.
Knudsen, Percy E., Pittsburgh, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Window construction. 2,281,071; Apr. 28.
Knudsen, Percy E., Pittsburgh, assignor to Pittsburgh Corning Corporation, Allegheny County, Pa. Building wall. 2,281,072; Apr. 28.
Kocher, Edward H., Boonton, N. J., assignor to Auto Research Corporation. Dough divider mechanism. 2,280,834; Apr. 28.
Konluszy, Frank. (See Folkers, K., and Konluszy.)
Kradel, Fred L. (See Carlisle, G. L., and Kradel.)
Krebs, Theodore S. (See Keene, A. D., and Krebs.)
Krist, Henry K., Mountain Lakes, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave translation. 2,281,312; Apr. 28.
Kronmiller, Carl G., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Differential adjustment. 2,280,959; Apr. 28.
Kuehl, Walter A., Chicago, Ill. Soldering iron cleaning and supporting stand. 2,281,162; Apr. 28.
Kuerschner, Otto B., Wilmington, Del. Foot cover. 2,281,160; Apr. 28.
Kuhns, Austin, and E. R. Gasser, assignors to Farrel-Birmingham Company, Incorporated, Buffalo, N. Y. Hydraulic clutch thrust bearing lubrication and drainage. 2,281,161; Apr. 28.
Kumnick, Frank A., Bridgeport, Conn. Dust collecting device. 2,281,313; Apr. 28.
Kunza, Frank, et al. (See Grohn, Henry P., assignor.)
Kurilla, John, Berwick, Pa. Switch. 2,281,314; Apr. 28.
Kurzina, Stanley B., Jr., Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Backpedaling brake for velocipedes. 2,281,099; Apr. 28.
Kutz, Walter M., Pittsburgh, Pa., assignor to The Raolin Corporation, New York, N. Y. Rubber cement. 2,281,087; Apr. 28.
Labin, Emile, assignor to International Standard Electric Corporation, New York, N. Y. High frequency electron discharge tube. 2,281,041; Apr. 28.
Laise, Clemens A., Tenafly, N. J., deceased, Fidelity Union Trust Company, executor, assignor to Callite Tungsten Corporation, Union City, N. J. Electrical contact. 2,281,446; Apr. 28.
Land, Edwin H., Boston, Mass., assignor to Polaroid Corporation, Dover, Del. Manufacturing light polarizers. 2,281,100; Apr. 28.
Land, Edwin H., Boston, Mass., assignor to Polaroid Corporation, Dover, Del. Dichroic stereoscopic print with reflecting backing. 2,281,101; Apr. 28.
Landis Tool Company. (See Elberty, Robert S., Jr., assignor.)
Landsiedel, Walter W., Elmira, assignor to Remington Rand Inc., Buffalo, N. Y. Computing and listing machine. 2,280,919; Apr. 28.
Landsiedel, Walter W., Elmira, assignor to Remington Rand Inc., Buffalo, N. Y. Computing machine. 2,280,920; Apr. 28.
Lane, Edward K., Houston, Tex. Apparatus for determining the degree of fatigue in drill pipe and the like. 2,281,163; Apr. 28.
Lang, Richard T., Heidenheim on the Brenz, Germany, assignor to American Volth Contact Co. Inc., New York, N. Y. Apparatus for delivering paper stock to paper making machines. 2,281,293; Apr. 28.
Lanning, Daniel D., Williamsville, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Film. 2,281,523; Apr. 28.
Lansing, Arthur C., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Separating mixtures of formaldehyde and volatile organic compounds. 2,281,243; Apr. 28.
Latina, Harry B., East St. Louis, Ill., assignor to Rawlings Manufacturing Company, St. Louis, Mo. Baseball mitt. 2,281,315; Apr. 28.
La Vigne, Jerome R., assignor to The Waterbury Buckle Company, Waterbury, Conn. Slide buckle. 2,280,921; Apr. 28.
Layman, Edwin C. (See Heslet, C. G., and Layman.)
Leduc, Henri A. (See Dufour, R., and Leduc.)
Lee, Paul R., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Current limiting relay. 2,280,960; Apr. 28.
Le Febvre, Alfred L. (See Cave, H., and Le Febvre.)
Leffer, Friedrich W., Kenton-Harrow, England, assignor to Universal Oil Products Company, Chicago, Ill. Treatment of motor fuel. 2,281,361; Apr. 28.
Leffer, Friedrich W., Kenton-Harrow, England, assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbon oils. 2,281,362; Apr. 28.
Lehmann, Max, Cleveland, and P. R. Guerin, East Cleveland, assignors to Towmotor Co., Cleveland, Ohio. Industrial truck. 2,281,004; Apr. 28.
Leichsenring, Max, Jr., Chicago, Ill. Adjusting pressure fluid brake systems. 2,281,538; Apr. 28.
Lenehan, Bernard E. (See Barrow, G. M., and Lenehan.)
Leonard, Merrill G., Sharon, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Protective device for electrical apparatus. 2,281,073; Apr. 28.
Leonard, Merrill G., Sharon, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Protective device for electrical apparatus. 2,281,074; Apr. 28.
Le Tourneau, R. G., Inc. (See Le Tourneau, Robert G., assignor.)
Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc. Load carrying and erecting implement. 2,281,507; Apr. 28.
Lewis, Philip, and N. Sherhofer, New York, N. Y. Shoe polish container and enclosed brush. 2,281,532; Apr. 28.
Levin, Nils D., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Apparatus for mining coal. 2,281,503; Apr. 28.
L'Hollier, Leslie H. (See Olson, F. F., and L'Hollier.)
Lily-Tulip Cup Corporation. (See Terry, Clifford B., assignor.)
Lincoln, John C. (See Neely, William H., assignor.)
Lindenblad, Nils E., Port Jefferson, N. Y., assignor to Radio Corporation of America. Radio relay repeater. 2,281,196; Apr. 28.
Line Material Company. (See Earle, Ralph H., assignor.)
Line Material Company. (See Ruggieri, Michael, assignor.)
Lionel Corporation, The. (See Smith, Richard G., assignor.)
Liquid Carbonic Corporation, The. (See Kantor, James, assignor.)
Lithgow, John, and L. K. Jackson, Cleveland, Ohio, assignors to Sears, Roebuck and Co., Chicago, Ill. Control mechanism for absorption refrigerators. 2,280,961; Apr. 28.
Lockwood, Edwin H. (See Barnsteiner, A., and Lockwood.)
Lombard, Robert H. (See Milligan, L. H., and Lombard.)
Lopez, Juan M. (See Nava, Robert De Silva, assignor.)
Lorentzen Hardware Mf'g. Corp. (See Nelson, Harry H., assignor.)
Lotz, Rudolph W. (See Cowles, Irving, assignor.)
Loumiet et Lavigne, Jean, Playa de la Teja, Itabo, Cuba. Fluid separation. 2,281,065; Apr. 28.
Lowman, Willis L., Newcastle, Ind. Rear vision device for vehicles. 2,281,102; Apr. 28.
Lown, Lester E. (See Sutherland, E. E., and Lown.)
Lubszynski, Hans G., Hillingdon, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England. Electron discharge device. 2,280,922; Apr. 28.
Lundstrom, Alexis A., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,281,508; Apr. 28.
Lyford, Emmita, Cincinnati, Ohio. Garment strap reinforcement. 2,281,363; Apr. 28.
Lyon, George A., Allenhurst, N. J. Ornamental trim ring. 2,281,529; Apr. 28.
Lysholm, Alf, Stockholm, Sweden, assignor, by mesne assignments, to J. C. Marble, L. M. Merrill, and P. H. Batten, trustees. Aircraft. 2,280,835; Apr. 28.
Mace, Everitt W., Tulsa, Okla., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Composition of matter and producing the same. 2,281,316; Apr. 28.
MacDonald, Albert F., Leetsdale, Pa. Moment distributing bearing. 2,281,364; Apr. 28.
MacDonald, Gordon C., Tulsa, Okla., assignor to Gulf Oil Corporation, Pittsburgh, Pa. Apparatus for placing explosives. 2,281,103; Apr. 28.
Mackey, Bill H. (See Desetti, G. E., Dew, and Mackey.)
MacNeill, John B., Wilkinsburg, B. P. Baker, Turtle Creek, and A. H. Bakken, Edgewood, Pittsburgh, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit interrupter. 2,281,042; Apr. 28.
Major, Randolph T., and K. Folkers, Plainfield, assignors to Merck & Co., Inc., Rahway, N. J. Erythrina alkaloid and its production. 2,280,837; Apr. 28.
Maling, Howard S., Seattle, Wash. Device for removing broken studs. 2,281,164; Apr. 28.
Malkin, Bernard A., assignor to Dominion Engineering Works Limited, Lachine, Quebec, Canada. Press for paper making machines. 2,281,294; Apr. 28.

Mallory, Marion, Detroit, Mich. Charge control system for internal combustion engines. 2,281,509; Apr. 28.
Mallory, P. R., & Co. (See Rah, J. C., and Hadley, assignors.)
Maloney, Frank H., Elmhurst, Long Island, assignor to Brass Goods Manufacturing Co., Brooklyn, N. Y. Sprayer. 2,281,447; Apr. 28.
Marble, Jarvis C., et al. (See Lysholm, Alf, assignor.)
Marbon Corporation. (See Irving, H. F., and Williams, assignors.)
Markel Electric Products, Inc. (See Ohm, Albert J. D., assignor.)
Marlow, Alfred S. (See Stratton, Albert C., assignor.)
Marquardt Company, The. (See Marquardt, Reinhold W., assignor.)
Marquardt, Reinhold W., assignor to The Marquardt Company, Milwaukee, Wis. Mattress and the like and producing it. 2,281,104; Apr. 28.
Marti, Joaquin M., and A. F. Piñol, Buenos Aires, Argentina. Absorbent sealing cap. 2,281,105; Apr. 28.
Martin, Sidney W., Chicago, Ill. Running gear checking apparatus. 2,281,197; Apr. 28.
Martin, Stanley. (See Courthope, T. F., Martin, and Sickly.)
Martin, Thomas B., Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starter gearing. 2,281,365; Apr. 28.
Maryland Baking Company. (See Balton, James, assignor.)
Mathey, Alcide E., Boston, assignor to Scully Signal Co., East Cambridge, Mass. Device for partially obstructing pipes. 2,281,448; Apr. 28.
Mathieson Alkali Works, Inc., The. (See Vincent, George P., assignor.)
Maynard Arthur H., assignor to Boston Wire Stitcher Company, Warwick, R. I. Fastener-applying implement. 2,281,198; Apr. 28.
McCollum, Henry J. De N., Evanston, Ill. Room heater. 2,281,106; Apr. 28.
McCollum, Henry J. De N., Chicago, Ill. Heating system. 2,281,107; Apr. 28.
McCormick, Allen L., C. C. Smith and W. T. Crespinal, assignors to Cinecolor, Incorporated, Los Angeles, Calif. Color photography. 2,281,073; Apr. 28.
McCoy, Thomas A. (See Granberg, A. J., and McCoy.)
McDonald, A. Y., Mfg. Co. (See Hazard, William H., assignor.)
McDonnell, Joseph M., Ozone Park, assignor to Remington Rand Inc., Buffalo, N. Y. Statistical machine. 2,280,923; Apr. 28.
McDonnell, Joseph M., Ozone Park, assignor to Remington Rand Inc., Buffalo, N. Y. Statistical machine. 2,280,924; Apr. 28.
McDougal, Taine G., Flint, assignor to General Motors Corporation, Detroit, Mich. Spark plug. 2,280,962; Apr. 28.
McFarlane, Robert B., Toronto, Ontario, Canada. Lock. 2,281,317; Apr. 28.
McGarry, James W., Waterbury, and E. A. Pope, Middlebury, assignors to Chase Brass & Copper Co., Incorporated, Waterbury, Conn. Combination plumbing fixture. 2,281,199; Apr. 28.
McKee, Harry H., assignor to Industrial Patents Corporation, Chicago, Ill. Ham butchering. 2,281,449; Apr. 28.
McLain, William R., Chicago, Ill. Refractory brickwork. 2,281,200; Apr. 28.
McLauthlin, George T., Company. (See Dodd, John W., assignor.)
Meehanite Metal Corporation. (See Smalley, Oliver, assignor.)
Melton, Scott R. (See Chaffee, C. B., and Melton.)
Merck & Co., Inc. (See Almquist, H. J., and Klose, assignors.)
Merck & Co. (See Fernholz, Erhard, assignor.)
Merck & Co. (See Folkers, K., and Koniuszy, assignors.)
Merck & Co. (See Keresztesy, J. C., and Stevens, assignors.)
Merck & Co. (See Major, R. T., and Folkers, assignors.)
Merco Nordstrom Valve Company. (See Nordstrom, Sven J., assignor.)
Merrill, Leslie M., et al. (See Lysholm, Alf., assignor.)
Mervis, Lou. (See Cullin, Jasper F., assignor.)
Metals & Controls Corporation. (See Saul, Waldo A., assignor.)
Metcalf, Charles N., Port Chester, assignor to Consolidated Edison Company of New York, Inc., New York, N. Y. Cable spear. 2,281,366; Apr. 28.
Meyer, Edwin M. (See Dykstra, L. J., and Meyer.)
Meyers Company, The. (See Meyers, George T., assignor.)
Meyers, Joe W. (See Weddle, J. P., and Meyers.)
Meyers, George T., Parkersburg, assignor to The Meyers Company, Parkersburg, W. Va. Glass building block. 2,281,524; Apr. 28.
Michigan Tool Company. (See Drader, Joseph C., assignor.)
Milar, John P., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Air conditioning system. 2,281,244; Apr. 28.
Miles Laboratories, Inc. (See Kamlet, Jonas, assignor.)
Miller, William W., Middletown, Conn. Carton. 2,281,165; Apr. 28.
Milligan, Lowell H., and R. H. Lombard, assignors to Norton Company, Worcester, Mass. Grinding wheel. 2,281,525; Apr. 28.
Milligan, Lowell H., and R. H. Lombard, assignors to Norton Company, Worcester, Mass. Grinding wheel. 2,281,526; Apr. 28.
Mills, Doremus L. (See Andrews, P. B., and Mills.)
Minneapolis-Honeywell Regulator Company. (See Kronmiller, Carl G., assignor.)
Minneapolis-Honeywell Regulator Company. (See Wattles, Joseph W., 3rd, assignor.)
Mirk, Earl C., Milwaukee, Wis. Meter reading device. 2,280,775; Apr. 28.
Michell, Norman D., Park Ridge, Ill. Gathering machine. 2,280,963; Apr. 28.
Mixer, Harold P., Rockville Centre, assignor to Remington Rand Inc., Buffalo, N. Y. Paper feed mechanism. 2,280,964; Apr. 28.
Moeller, Emil W. (See Eddy, R. F., Moeller, Wilcox, and Eddy.)
Moeller, Lowell J. (See Bertalan, E., and Moeller.)
Mohr, Milton E. (See Horton, A. W., Jr., and Mohr.)
Moll, Harold W. (See Smith, Frank B., and Moll.)
Moll, Norman J., Washington, D. C. Applicator. 2,281,367; Apr. 28.
Moloney, Raymond T. (See Breitenstein, Charles T., assignor.)
Montmartin, Guy H., New York, N. Y. Fastener and ornamentation device. 2,281,108; Apr. 28.
Moohl, Johan G. (See Motch, E. R., Jr., and Moohl.)
Mooney, James D., Oyster Bay, N. Y. Apparatus for illustrating economic laws. 2,281,368; Apr. 28.
Moore, Ralph W. E. (See Robinson, W. C., and Moore.)
Moore, Robert E. (See Morrison, W. L., and Moore.)
Morrell, Jacque C., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of gasolines. 2,281,369; Apr. 28.
Morris, Lloyd P. (See Benton, H. Z., and Morris.)
Morrison, Willard L., Lake Forest, and R. E. Moore, Park Ridge, Ill. Combination washroom fixture. 2,281,370; Apr. 28.
Moskovics, Frederick E., Greenwich, Conn., and V. R. Abrams, Maplewood, N. J., assignors to E. U. Andrews, Greenwich, Conn. Blade support for shaving devices. 2,280,836; Apr. 28.
Motch, Edwin R., Jr., Cleveland, and J. G. Moohl, Cleveland Heights, assignors to The Motch & Merryweather Machinery Co., Cleveland, Ohio. Rotary tool machine. 2,281,450; Apr. 28.
Motch & Merryweather Machinery Co., The. (See Motch, E. R., Jr., and Moohl, assignors.)
Motor Wheel Corporation. (See Horn, Harry J., assignor.)
Mueller, Erich O., Irwin, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Lubrication and cooling of antifriction bearings. 2,280,965; Apr. 28.
Mugler, Herman A., Lynbrook, N. Y. Metallic building structure. 2,281,371; Apr. 28.
Muller, Johan A., Mount Gilead, Ohio, assignor to The Hydraulic Development Corp., Inc., Wilmington, Del. Hydraulic motor. 2,281,372; Apr. 28.
Murdock Manufacturing and Supply Company, The. (See Bart, T. E., Gowdy, and Zugelter, assignors.)
Murdock Manufacturing and Supply Company, The. (See Gowdy, Robert C., assignor.)
Murdock Manufacturing & Supply Company, The. (See Murdock, R. J., Bart, Zugelter and Kinney, Jr., assignors.)
Murdock Manufacturing and Supply Company. (See Zugelter, Frank, assignor.)
Murdock, Robert J., T. E. Bart, F. Zugelter and J. W. Kinney, Jr., assignors to The Murdock Manufacturing & Supply Company, Cincinnati, Ohio. Antifreeze drinking fountain. 2,280,838; Apr. 28.
Muros, Joseph, Cambridge, assignor to Gillette Safety Razor Company, Boston, Mass. Magazine safety razor. 2,281,201; Apr. 28.
Myers, Maurice M., et al. (See Eck, John R., assignor.)
Nadai, Arpad, and H. C. Harrison, Wilkinsburg, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Compression tester for plastic materials. 2,280,966; Apr. 28.
Naes, Joseph P., St. Louis, Mo. Detecting device. 2,281,373; Apr. 28.
Nallinger, Fritz, Stuttgart, assignor to Daimler-Benz Aktiengesellschaft, Unterturkheim-Stuttgart, Germany. Internal combustion engine. 2,280,839; Apr. 28.
Nash, Arthur D., Sewickley, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Making reflecting glass. 2,281,076; Apr. 28.
Nash-Kelvinator Corporation. (See Sladky, Joseph F., assignor.)
National Cash Register Company. (See Kelly, James W., assignor.)
National Electric Products Corporation. (See Robinson, W. C., and Moore, assignors.)
National Folding Box Company. (See Carruth, Herman A., assignor.)
National Lead Company. (See Cole, S. S., and Nelson, assignors.)
National Tube Company. (See Kennedy, Truman H., assignor.)

National Tube Company. (See Nesbitt, A. B., and Webb, assignors.)
Nava, Robert De S., assignor to J. M. Lopez, San Luis Potosi, Mexico. Safety razor and blade. 2,281,166; Apr. 28.
Neely, William H., Cleveland, Ohio, assignor to John C. Lincoln, Scottsdale, Ariz. Wire spring for cushioned seats of upholstered furniture. 2,280,840; Apr. 28.
Nelson, Clarence D., Mullan, assignor of one-half to E. Hanson, Wallace, Idaho. Ventilating apparatus. 2,281,202; Apr. 28.
Nelson, Harry G., Lompoc, Calif. Rotary engine. 2,280,967; Apr. 28.
Nelson, Harry H., assignor, by mesne assignments, to Lorentzen Hardware Mf'g Corp., New York, N. Y. Venetian blind bracket. 2,281,043; Apr. 28.
Nelson, Omer, et al. (See Eck, John R., assignor.)
Nelson, Robert C., Berlin, assignor to Eagle Lock Company, Terryville, Conn. Rap-proof padlock. 2,281,088; Apr. 28.
Nelson, Walter K. (See Cole, S. S., and Nelson.)
Nesbitt, Andrew B., and S. Webb, Pittsburgh, Pa., assignors to National Tube Company. Threading machine. 2,281,374; Apr. 28.
Neufeld, Jakob, Berlin-Spandau, Germany, assignor to General Electric Company. Bladed structure. 2,281,318; Apr. 28.
Newell, Heber L., Bridgeport, Conn., assignor to General Electric Company. Control device. 2,281,319; Apr. 28.
Newhall, Arthur B., Meadville, Pa., assignor to Talon, Inc. Automatic lock slider for slide fasteners. 2,280,968; Apr. 28.
New Jersey Machine Corporation. (See von Hofe, George W., assignor.)
Newport Industries, Inc. (See Oliver, A. F., and Palmer, assignors.)
Neumark, Leo W., Shaker Heights, Ohio, assignor to The Printz-Biederman Company. Combination coat and jacket. 2,281,510; Apr. 28.
Nicodemus, Wilmer C., Barberton, Ohio, assignor to The Diamond Match Company, New York, N. Y. Grouping and arranging mechanism for packet assembling machines. 2,281,006. Apr. 28.
Nicodemus, Wilmer C., and H. D. Brown, Barberton, Ohio, assignors to The Diamond Match Company, New York, N. Y. Mechanism for forming covers on the trays of telescopic boxes. 2,281,005; Apr. 28.
Nicodemus, Wilmer C., and H. D. Brown, Barberton, Ohio, assignors to The Diamond Match Company, New York, N. Y. Blank feeding mechanism. 2,281,295; Apr. 28.
Nichols, Ernest H., assignor to The Funkhouser Company, Hagerstown, Md. Granular material. 2,281,167; Apr. 28.
Nisbet, Robert H. (See Harding, W. G., and Nisbet.)
Nordstrom, Sven J., Lafayette, Calif., assignor to Merco Nordstrom Valve Company, Pittsburgh, Pa. High temperature valve. 2,280,925; Apr. 28.
North, Oliver D., Hunton Bridge, and P. G. Hugh, assignors to Scammell Lorries Limited Watford West, Hertfordshire, England. Driving gear for steering road wheels of motor vehicles. 2,281,451; Apr. 28.
Northrop Aircraft, Inc. (See Baum, Fred J., and Wilson, assignors.)
Northrup, Homer W. (See Ziegler, N. A., and Northrup.)
Northwest Magnesite Company. (See Fahrenwald, Arthur W., assignor.)
Norton Company. (See Henson, W. H., and Bird, assignors.)
Norton Company. (See Milligan, L. H., and Lombard, assignors.)
No-Sag Spring Company. (See Hopkes, Henry, assignor.)
Novick, Abraham, Flushing, assignor to F. L. Smithe Machine Co., Inc., New York, N. Y. Envelope machine. 2,281,089; Apr. 28.
Nowak, Paul, Berlin-Charlottenburg, Germany, assignor to General Electric Company. Electrical insulation. 2,281,375; Apr. 28.
Odell, John R., Jr., Grosse Pointe Farms, Mich. Roasting green coffee. 2,281,320; Apr. 28.
Oehler, Alvin W. (See Anderson, R. L., and Oehler.)
Ogden, Hubert S., Los Angeles, assignor to Robert M. Vaillancourt, Pasadena, Calif. Apparatus for the sterilization of liquids without the use of heat or chemicals. 2,280,841; Apr. 28.
Ohm, Albert J. D., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Electric lighting fixture. 2,281,376; Apr. 28.
Ohm, Albert J. D., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Electric lighting fixture. 2,281,377; Apr. 28.
Ohm, Albert J. D., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Electric lighting fixture. 2,281,378; Apr. 28.
Ohm, Albert J. D., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Electric lighting fixture. 2,281,379; Apr. 28.
Oliver, Anthony F., and R. C. Palmer, assignors to Newport Industries, Inc., Pensacola, Fla. Isolating fatty acids from tall oil. 2,280,842; Apr. 28.
Oliver, Anthony F., and R. C. Palmer, assignors to Newport Industries, Inc., Pensacola, Fla. Concentrating the sterol content of tall oil. 2,280,843; Apr. 28.
Olsen, Anders C., Gwynedd, Pa. Building construction. 2,281,109; Apr. 28.
Olsen, Marvin R., Glen Ellyn, assignor to Sears, Roebuck and Co., Chicago, Ill. Furnace grate mechanism. 2,280,926; Apr. 28.
Olson, Frederick F., Belmont, and L. H. L'Hollier, Waltham, Mass., assignors to The B. F. Goodrich Company, New York, N. Y. Overshoe. 2,281,321; Apr. 28.
Olson, Harry O., Chicago, Ill. Bicycle and the like vehicle. 2,281,110; Apr. 28.
O'Malley, Joseph, New Bedford, Mass. Shade-pull attachment. 2,280,969; Apr. 28.
O'Neil, John G., Faribault, and L. G. Zesbaugh, Minneapolis, Minn., said Zesbaugh assignor to said O'Neil. Contracting mandrel. 2,280,970; Apr. 28.
Oplinger, Kirk A., Verona, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical switching apparatus. 2,281,044; Apr. 28.
Otis Elevator Company. (See Sanford, Selden B., assignor.)
Ottinger, Nathan, New York, N. Y. Closure for flexible receptacles. 2,281,452; Apr. 28.
Outin, Jean, Paris, assignor to Société la Precision Mecanique, Paris, (Seine), France. Pump. 2,281,045; Apr. 28.
Pacific Enterprise Products, Inc. (See Wallace, John H., assignor.)
Packer, Lewis C., Longmeadow, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Low-starting-current motor. 2,280,971; Apr. 28.
Page, Bruno, assignor to Schering & Glatz, Inc., New York, N. Y. Scoring and grooving file. 2,281,007; Apr. 28.
Page, Robert H., Montreal, Quebec, Canada, assignor to Bendix Aviation Corporation, Bendix, N. J. Marking device for navigating instruments. 2,280,844; Apr. 28.
Paget, Win W., Long Beach, Michigan City, Ind., assignor to Sullivan Machinery Company. Gaseous fluid treating apparatus. 2,281,168; Apr. 28.
Palmer, Robert C. (See Oliver, A. F., and Palmer.)
Pankonin, William G., Chicago, Ill. Stapling machine anvil. 2,281,322; Apr. 28.
Parke, Peter, and N. A. Thunstrom, assignors to The Pullman Company, Chicago, Ill. Railway car. 2,281,245; Apr. 28.
Parker, Humphrey F., Detroit, Mich. Air compressor system. 2,280,845; Apr. 28.
Parkin, George, Philadelphia, Pa. Spark plug. 2,281,511; Apr. 28.
Parrill, Easton E., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,281,046; Apr. 28.
Patent License Corporation. (See Arenberg, Albert L., assignor.)
Pattison, Herbert J., assignor to Briggs Manufacturing Company, Detroit, Mich. Automatic spraying machine. 2,281,169; Apr. 28.
Pattison, Wayne. (See Peters, W. J., and Pattison.)
Paulson, George M., New York, N. Y. Spark-plug construction. 2,280,972; Apr. 28.
Payne, Clarence Q., New York, N. Y. Method of and apparatus for melting metals by electromagnetic induction. 2,281,170; Apr. 28.
Payne, John W. (See Simpson, T. P., Payne and Crowley.)
Pease, Anthony Equipment Company. (See Anthony, Alfred W., Jr., assignor.)
Peerless Traveling Goods Co., The. (See Schwab, Hugo R., assignor.)
Pennow, Willis A., Cleveland, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Control mechanism for searchlight. 2,281,047; Apr. 28.
Perfect Circle Company, The. (See Teetor, Macy O., assignor.)
Permutit Company, The. (See Holmes, Eric L., L. E., and Prescott, assignors.)
Peters, Franklin T. (See Burke, W. J., and Peters.)
Peters, William J., and W. Pattison, assignors to Bohn Aluminum & Brass Corporation, Detroit, Mich. Making bearings. 2,281,246; Apr. 28.
Petersen, Louis, Detroit, Mich. Electromagnetic movement repeating system. 2,281,453; Apr. 28.
Peterson, Axel H., Kewanee, Ill. Dispensing device for containers. 2,281,380; Apr. 28.
Peterson, Harold O., Riverhead, N. Y., assignor to Radio Corporation of America. Ultra short wave resonant circuit. 2,281,247; Apr. 28.
Petrolite Corporation, Ltd. (See Blair, Charles M., Jr., assignor.)
Petrolite Corporation, Ltd. (See De Groote, M., and Keiser, assignors.)
Petrolite Corporation, Ltd. (See Mace, Everitt W., assignor.)
Philadelphia and Reading Coal and Iron Company, The. (See Hyson, J. A., and Kerrick, assignors.)
Philco Radio and Television Corporation. (See Freeland, Ernest C., assignor.)

Philco Radio and Television Corporation. (See Travis, Charles, assignor.)
Philippi, Hermann, Berlin-Spandau, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Winding machine. 2,280,973; Apr. 28.
Phillips, David W., Chicago, Ill. Means and apparatus for preparing inlay cavities. 2,280,927; Apr. 28.
Phillips Petroleum Company. (See Frey, F. E., Snow and Schulze, assignors.)
Pie, Paul F., Jr., Newark, assignor to Darco Corporation, Wilmington, Del. Chlorination of methane. 2,280,928; Apr. 28.
Pinol, Augustin Fito. (See Martí, J. M., and Pinol.)
Pitcairn, Harold F., Bryn Athyn, assignor to Autogiro Company of America, Willow Grove, Pa. Driving mechanism for air rotors especially aircraft sustaining rotors. 2,281,203; Apr. 28.
Pitcher, Miles H., Portland, Oreg. Rotary plow. 2,28$,846; Apr. 28.
Pitcher, Miles H., Portland, Oreg. Apparatus for forming helical plow screws. 2,280,847; Apr. 28.
Pittsburgh Plate Glass Company. (See Dennison, Brook J., assignor.)
Pittsburgh Plate Glass Company. (See Engelhart, Oscar D., assignor.)
Pittsburgh Plate Glass Company. (See Knudsen, Percy E., assignor.)
Pittsburgh Plate Glass Company. (See Nash, Arthur D., assignor.)
Pittsburgh Plate Glass Company. (See Redshaw, Joseph H., assignor.)
Platz, Henry T., assignor to Briggs Manufacturing Company, Detroit, Mich. Welding equipment. 2,281,323; Apr. 28.
Pocock, Paul C., Marion, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del. Press with ejector ram operated without auxiliary pressure source. 2,280,849; Apr. 28.
Polaroid Corporation. (See Land, Edwin H., assignor.)
Polaroid Corporation. (See Ryan, William H., assignor.)
Polaroid Corporation. (See Wolff, Otto E., assignor.)
Pole, Gordon R., near Sheffield, Ala. Making alkali metal phosphates. 2,280,848; Apr. 28.
Polivka, George J., La Grange, Ill. Multiple cold milk filter. 2,281,454; Apr. 28.
Pollard, Ernest I., Irwin, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Damper winding. 2,280,974; Apr. 28.
Pollard, Willard L., Evanston, Ill. Variable speed transmission. 2,281,077; Apr. 28.
Pool, Simeon L., Ocheyedan, Iowa. Suction cleaner. 2,281,048; Apr. 28.
Pope, Elton A. (See McGarry, J. W., and Pope.)
Porcelain Steels, Inc. (See Bohnsack, John A., assignor.)
Posture Research Corporation. (See Jones, Arthur E., assignor.)
Poux, Noel J., Meadville, Pa., assignor to Talon, Inc. Machine for making separable fasteners. 2,281,008; Apr. 28.
Poux, Noel J., Meadville, Pa., assignor to Talon, Inc. Lock slider for slider fasteners. 2,281,009; Apr. 28.
Powell, Lawrence F., Denton, Tex. Luminous indicia display device. 2,281,049; Apr. 28.
Powell, Leonard A., Hyde Park, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Rotary operative fastener. 2,281,455; Apr. 28.
Power, James T., assignor to Atlas Powder Company, Wilmington, Del. Hydrogenation of invertible saccharides. 2,280,975; Apr. 28.
Pratt, Best, and C. J. Smith, assignors to Brake Equipment & Supply Company, Chicago, Ill. Ringed shaft-mounted piston. 2,281,381; Apr. 28.
Pray, Thomas E., assignor to Goodman Manufacturing Company, Chicago, Ill. Kerf-cutting mining machine. 2,281,382; Apr. 28.
Prescott, William G. (See Holmes, Eric L., and L. E., and Prescott.)
Preston, Frank W., Butler, Pa. Apparatus for testing by impact. 2,281,324; Apr. 28.
Price, Robert E., and I. E. Knapp, assignors to Crosby Naval Stores, Incorporated, Picayune, Miss. Pale rosin and producing the same. 2,281,078; Apr. 28.
Price, Robert E. (See Knapp, I. E., Price, and Brondum.)
Printz-Biederman Company, The. (See Neumark, Leo W., assignor.)
Pubins, John J., et al. (See Grohn, Henry P., assignor.)
Pullman Company, The. (See Parke, P., and Thunstrom, assignors.)
Pullman-Standard Car Manufacturing Company. (See Milar, John P., assignor.)
Pump Engineering Service Corporation. (See Kanuch, J., and Wichorek, assignors.)
Pupp, Wolfgang. (See Dallenbach, W., Wilckens, and Pupp.)
Purdue Research Foundation. (See Hass, Henry B., assignor.)
Purdue Research Foundation. (See Susie, Alfred G., assignor.)
Putney, David H., assignor to Stratford Development Corporation, Kansas City, Mo. Alkylating hydrocarbons. 2,281,248; Apr. 28.
Quigley, Winfred M. (See Bargfeldt, H. G., Quigley, and Taylerson.)
Radio Corporation of America. (See Eddy, William C., assignor.)
Radio Corporation of America. (See Franklin, R. E., and Thorne, assignors.)
Radio Corporation of America. (See Goddard, DeWitt R., assignor.)
Radio Corporation of America. (See Hansell, Clarence W., assignor.)
Radio Corporation of America. (See Lindenblad, Nils E., assignor.)
Radio Corporation of America. (See Petersen, Harold O., assignor.)
Radio Corporation of America. (See Roberts, Walter van B., assignor.)
Radio Corporation of America. (See Schock, Robert E., assignor.)
Radio Inventions, Inc. (See Talmey, Paul, assignor.)
Radio Corporation of America. (See van Lammeren, Johannes A., assignor.)
Rah, Joseph C., Indianapolis, and O. V. Hadley, Plainfield, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Electric control shaft. 2,280,929; Apr. 28.
Railway and Industrial Engineering Company. (See Carlisle, G. L., and Kradel, assignors.)
Ralston, Anderson W., and J. P. Barrett, assignors to Armour and Company, Chicago, Ill. Insect repellent containing nitriles. 2,280,850; Apr. 28.
Ramo, Simon, Schenectady, N. Y., assignor to General Electric Company. Electron microscope. 2,281,325; Apr. 28.
Ranney, Leo, McConnelsville, Ohio. Method of well drilling. 2,280,851; Apr. 28.
Raolin Corporation, The. (See Kutz, Walter M., assignor.)
Raphaël, Robert, Colombes, France. Vehicle window regulator mechanism. 2,281,383; Apr. 28.
Rawlings Manufacturing Company. (See Latina, Harry B., assignor.)
Raymond, Horace H., Berlin, Conn., assignor to American Paper Tube Co., Woonsocket, R. I. Magnetic tension device. 2,281,204; Apr. 28.
Raytheon Manufacturing Company. (See Dawson, John W., assignor.)
Read, Ernest K., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Switch. 2,280,976; Apr. 28.
Records, Chester E., Columbus, Ohio. Well screen. 2,281,326; Apr. 28.
Redler Conveyor Company. (See Sinden, Alfred De L., assignor.)
Redshaw, Joseph H., Homestead, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Batch feeding apparatus. 2,281,050; Apr. 28.
Reed, Harlow A., Oakdale, Calif. Flow meter. 2,281,512; Apr. 28.
Reeves, William H., St. Louis, Mo. Pumping equipment. 2,280,930; Apr. 28.
Reichel, Frank H., and R. T. K. Cornwell, assignors to Sylvania Industrial Corporation, Fredericksburg, Va. Preserved product. 2,281,513; Apr. 28.
Reichmann, Reinhold, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. High temperature heating unit and making same. 2,280,977; Apr. 28.
Remington Rand Inc. (See Landsiedel, Walter W., assignor.)
Remington Rand Inc. (See McDonnell, Joseph M., assignor.)
Remington Rand Inc. (See Mixer, Harold P., assignor.)
Republic Aviation Corporation. (See de Seversky, Alexander P., assignor.)
Republic Aviation Corporation. (See Kaiser, Robert A., assignor.)
Research Corporation. (See Cartwright, C. H., and Turner, assignors.)
Resinous Products & Chemical Company, The. (See Bruson, Herman A., assignor.)
Revere Copper and Brass Incorporated. (See Andrews, P. B., and Mills, assignors.)
Reynolds, Harry R., and L. A. Hilles, assignors to The Fafnir Bearing Company, New Britain, Conn. Bearing seal. 2,281,010; Apr. 28.
Rhode, Marcus H., assignor to M. H. Rhodes, Inc., Hartford, Conn. Timing device. 2,281,514; Apr. 28.
Rhodes, M. H., Inc. (See Rhodes, Marcus H., assignor.)
Rice, Adelbert F., Cleveland, Ohio. Venetian blind. 2,280,931. Apr. 28.
Rice Barton Corporation. (See Stafford, Stephen B., assignor.)
Richmond-Chase Co. (See Allen, Philip H., assignor.)
Richmond, Howard B. (See Thiele, W. F., and Richmond.)
Ringwald, Clarence, Springfield, Ohio. Signal for motor vehicles. 2,281,171; Apr. 28.
Roberts, Walter van B., Princeton, N. J., assignor to Radio Corporation of America. Negative transconductance device. 2,280,978; Apr. 28.
Roberts, William, Oswego, assignor to The Diamond Match Company, New York, N. Y. Machine for combining dissimilar articles. 2,281,011; Apr. 28.
Robie, Norman P., assignor to The Carborundum Company, Niagara Falls, N. Y. Coated abrasive article. 2,280,852; Apr. 28.

Robinson, William C., Sewickley, Pa., and R. W. E. Moore, Riverdale, N. Y., assignors to National Electric Products Corporation. Nonmetallic sheath cable. 2,281,111; Apr. 28.
Roby, Horace H., Wichita, Kans., assignor to Roby, Inc. Variable pitch propeller. 2,281,456; Apr. 28.
Roby, Inc. (See Roby, Horace H., assignor.)
Rocke, William, South Bend, Ind. Hydrotherapy circulator. 2,280,979; Apr. 28.
Rodgers, Lawrence J., Vernon, Tex. Tapping tool. 2,281,172; Apr. 28.
Rodiger, Werner, Berlin, Germany. Envelope. 2,281,296; Apr. 28.
Rody, Adolph E., Elmwood, Ontario, Canada. Bridle bit. 2,280,853; Apr. 28.
Roehm, Luther S., assignor to The Dow Chemical Company, Midland, Mich. Germicidal concentrates. 2,281,249; Apr. 28.
Roger, Albert J., Oakland, Calif. Drop meter and dispenser. 2,281,051; Apr. 28.
Rollins, James R., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigerating apparatus. 2,281,079; Apr. 28.
Rooney, Walter E., Bellingham, Wash., assignor to American Can Company, New York, N. Y. Tray loading machine. 2,280,854; Apr. 28.
Rose, John J., Dayton, Ohio. Shielded spark plug cable terminal. 2,280,855; Apr. 28.
Rosenqvist, Sven O., Rotebro, assignor to Svenska Jästfabriks Aktiebolaget, Stockholm, Sweden. Aeration of fermenting wort in the manufacture of yeast. 2,281,457; Apr. 28.
Rosenthal, Sanford M., and H. Bauer, Washington, D. C., assignors to Government of the United States of America, represented by the Secretary of the Treasury. Benzene sulphonamidyl compounds of sulphanilamide, salts and derivatives thereof, and production. 2,280,856; Apr. 28.
Ross, Edward T., Newark, N. J. Variable speed driving means. 2,281,384; Apr. 28.
Royal, Thomas M., Philadelphia, Pa. Container handling apparatus. 2,281,516; Apr. 28.
Royal Typewriter Company. (See Dowd, B. J., and Hart, assignors.)
Ruggieri, Michael, Stroudsberg, Pa., assignor to Line Material Company, South Milwaukee, Wis. Secondary service box. 2,281,515; Apr. 28.
Ruskin, Henry assignor of one-half to G. E. Hale, Chicago, Ill. Making spiral cutters. 2,281,250; Apr. 28.
Rustless Iron and Steel Corporation. (See Arness, William B., assignor.)
Ryan, William H., Cambridge, Mass., assignor to Polaroid Corporation, Dover, Del. Variable density window. 2,281,112; Apr. 28.
Sadtler, Samuel S. (See Smead, E. L., and Sadtler.)
Saffold, James W., Cleveland, Ohio. Oil seal. 2,280,857; Apr. 28.
Saint-Germain, Jacques M., and G. Balachowsky, Paris, France, assignors to General Electric Company. Electric circuit breaker. 2,281,385; Apr. 28.
Saler, Jules N., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Liquid congealing apparatus. 2,281,080; Apr. 28.
Salleras, Modesto, Paris, France, assignor to Buffalo Electro-Chemical Company, Inc. Electrolytic manufacture of potassium persulphate. 2,281,090; Apr. 28.
Samson-United Corporation. (See Keene, A. D., and Krebs, assignors.)
Samuel, Arthur L., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,280,980; Apr. 28.
Samzelius, John W., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Safety switch. 2,281,052; Apr. 28.
Sanford, Selden B., Yonkers, assignor to Otis Elevator Company, New York, N. Y. Tubular lamp retaining device. 2,281,113; Apr. 28.
Santomieri, Sebastian L., Columbus, Ohio, assignor to Victor Insulators, Inc., Victor, N. Y. Insulator and producing conducting coating thereon. 2,281,173; Apr. 28.
Saul, Waldo A., Lexington, assignor to Metals & Controls Corporation, Attleboro, Mass. Thermostat. 2,281,517; Apr. 28.
Scammell Lorries Limited. (See North, O. D., and Pugh, assignors.)
Scarborough, Joseph P. (See Jolley, D. A., and Scarborough.)
Schadegg, Theophilus, Minneapolis, Minn. Meat and vegetable cooling device. 2,281,458; Apr. 28.
Schaeffer, George L. (See Smith, Michael F., assignor.)
Schaelchlin, Walter, Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Automatic mooring winch. 2,280,932; Apr. 28.
Schering Corporation. (See Inhoffen, Hans H., assignors.)
Schering Corporation. (See Schoeller, W., Hilderbrandt and Schwenk, assignors.)
Schering & Glatz, Inc. (See Page, Bruno, assignor.)
Schmid, William P. (See Finkel, M., and Schmid.)
Schneider, George, Montclair, N. J., assignor to Celanese Corporation of America. Textile product. 2,280,933; Apr. 28.
Schock, Robert E., Riverhead, N. Y., assignor to Radio Corporation of America. Voltage variation compensator. 2,281,205; Apr. 28.
Schoeller, Walter, Berlin-Westend, and F. Hildebrandt, H. Neuendorf, near Berlin, Germany, and E. Schwenk, Montclair, assignors to Schering Corporation, Bloomfield, N. J. Acyl derivatives of germinal gland hormone preparations of high activity, and a method of producing the same. 2,280,858; Apr. 28.
Schoen, Paul F., Dearborn, assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Heat exchange device. 2,281,206; Apr. 28.
Schoen, Paul F., Dearborn, assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Method of manufacturing heat exchange devices. 2,281,207; Apr. 28.
Schreiner, Wilhelm. (See Stegelitz, H., and Schreiner.)
Schuh, Arthur E., Riverton, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Fabrication of laminated metal objects. 2,280,981; Apr. 28.
Schultis, Charles F. (See Herzbrun, I., and Schultis.)
Schultze, Werner. (See Eggert, J., and Schultze.)
Schulze, Carl, Santa Barbara, Calif. Repeat action for grand pianos. 2,280,982; Apr. 28.
Schulze, Walter A. (See Frey, F. E., Snow and Schulze.)
Schumacher, Joseph C., and A. C. Carus, La Salle, Ill., assignors to Carus Chemical Company, Inc. Extraction of benzo-quinone. 2,281,327; Apr. 28.
Schwab, Hugo R., assignor to The Peerless Traveling Goods Co., Mayville, Wis. Luggage case. 2,281,114; Apr. 28.
Schwartz, Morris A., Los Angeles, Calif. Thermostatic control. 2,281,386; Apr. 28.
Schwarzkopf, Robert, New Rochelle, N. Y. Thumb tack dispensing device. 2,281,208; Apr. 28.
Schwenk, Erwin. (See Schoeller, W., Hilderbrandt and Schwenk.)
Scott-Paine, Hubert, Southampton, England. Water scoop for boats. 2,281,459; Apr. 28.
Scully Signal Co. (See Mathey, Alcide E., assignor.)
Sears, Lester M., Shaker Heights, assignor to Towmotor Co., Cleveland, Ohio. Industrial truck. 2,281,012; Apr. 28.
Sears, Richard E., assignor to Willard Storage Battery Company, Cleveland, Ohio. Tap switch mechanism. 2,281,387; Apr. 28.
Sears, Roebuck and Co. (See Dempsey, L. E., and Blu, assignors.)
Sears, Roebuck and Co. (See Lithgow, J., and Jackson, assignors.)
Sears, Roebuck and Co. (See Olsen, Marvin R., assignor.)
Seebach, Fritz, Erkner, near Berlin, Germany, assignor, by mesne assignments, to Bakelite Corporation. Preparing synthetic resin molding materials containing fillers. 2,280,934; Apr. 28.
Seguy, Jean D., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbon oils. 2,281,388; Apr. 28.
Semonsen, Otto C., Bellerose, N. Y. Electric circuits for producing sparks. 2,281,115; Apr. 28.
Seney, Harvey W. (See Seney, John S., and H. W.)
Seney, John S., and H. N. Seney, Chesterfield County, Va. Automatic intake and outlet valve. 2,281,053; Apr 28.
Sengebusch, Hans, Villa Park, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Impulse transmitting device. 2,281,116; Apr. 28.
Shaffer, Donald U., assignor to Shaffer Tool Works, Brea, Calif. Rotary releasing fishing tool. 2,281,389; Apr. 28.
Shaffer Tool Works. (See Shaffer, Donald U., assignor.)
Shakespeare Company. (See Clickner, Earle D., assignor.)
Shannon, Michael. (See Adams, Rex., assignor.)
Shapiro, Abraham, assignor to Ampro Corporation, Chicago, Ill. Motion picture projector. 2,281,328; Apr. 28.
Sheldon, Garnett G., Ferrysburg, Mich. Electromagnet motor. 2,281,081; Apr. 28.
Shell Development Company. (See Engs, W., Groll, and Fairbairn, assignors.)
Shelton, Sherman C. (See Gillespie, John E., assignor.)
Sherhofer, Nicholas. (See Lewis, P., and Sherhofer.)
Sickly, Robert G. (See Courthope, T. F., Martin, and Sickly.)
Siesennop, John L., Milwaukee, Wis. Accelerator and brake control. 2,280,859; Apr. 28.
Simmons, Albert E., assignor of one-third to E. S. Mitchell, Eureka, Calif. Container. 2,281,251; Apr. 28.
Simon, Cy I., Chicago, Ill., now by judicial change of name to Cyrus Swift. Composition shoe heel. 2,281,390; Apr. 28.
Simpson, Bruce L., assignor to H. S. Simpson, Chicago, Ill. Muller and motor driven agitator. 2,281,329; Apr. 28.
Simpson, Herbert. (See Simpson, Bruce L., assignor.)
Simpson, John K. (See Thornhill, P. W., and Simpson.)
Simpson, Thomas P., J. W. Payne, and J. A. Crowley, Jr., Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Conducting catalytic conversion operations. 2,281,527; Apr. 28.
Sinclair, Charles W., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Master cylinders. 2,281,330; Apr. 28.
Sinden, Alfred De L., Aurora, Ill., assignor to Redler Conveyor Company, Quincy, Mass. Conveyer. 2,281,026; Apr. 28.

Singer Manufacturing Company, The. (See Enos, John P., assignor.)
Sisal Pulp Syndicate Limited. (See Kerr, Walter T., assignor.)
Skly, Gus, et al. (See Grohn, Henry P., assignor.)
Skog, Henry A. (See Ewald, R. L., and Skog.)
Sladky, Joseph F., Racine, assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Accelerator pedal. 2,281,117; Apr. 28.
Smalley, Oliver, assignor to Meehanite Metal Corporation, Pittsburgh, Pa. Manufacturing chilled cast iron and product thereof. 2,281,460; Apr. 28.
Smead, Edward L., Mexico City, Mexico, and S. S. Sadtler, Springfield Township, Montgomery County, Pa., assignors to Henex, S. A., Mexico City, Mexico. Boiler compound. 2,281,392; Apr. 28.
Smirl, Richard L., Bellwood, assignor to Borg-Warner Corporation, Chicago, Ill. Rotor brake. 2,281,118; Apr. 28.
Smith, André, and Attilio Banca, Maitland, Fla. Picture holder. 2,281,054; Apr. 28.
Smith, Chalmers C. (See McCormick, A. L., Smith, and Crespinel.)
Smith, Clarence J. (See Pratt, B., and Smith.)
Smith, Frank B., and H. W. Moll, assignor to The Dow Chemical Company, Midland, Mich. Condensation products of styrene and aryl ethers. 2,281,252; Apr. 28.
Smith, George F. (See Darby, David A., assignor.)
Smith, Glenn R., assignor of one-half to N. R. Smith, Santa Barbara, Calif. Foot and leg rest. 2,281,119; Apr. 28.
Smith, Joseph H., Elstree, Herts, assignor to Humphries & Glasgow Limited, London, England. Manufacture of water gas and apparatus therefor. 2,281,210; Apr. 28.
Smith, Kenneth D., White Plains, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Temperature compensating means. 2,281,461; Apr. 28.
Smith, Michael F., assignor of one-tenth to G. L. Schaeffer, Los Angeles, Calif. Nail file. 2,281,462; Apr. 28.
Smith, Nellie R. (See Smith, Glenn R., assignor.)
Smith, Orville D., Grinnell, Iowa. Combination bed and carriage. 2,281,209; Apr. 28.
Smith, Richard G., Amsterdam, assignor to The Lionel Corporation, New York, N. Y. Self-unloading toy vehicle. 2,281,393; Apr. 28.
Smith, Stuyvesant C., assignor to Bendix Aviation Corporation, South Bend, Ind. Carburetor. 2,281,176; Apr. 28.
Smith, William V., Greenville, Ill. Mower sharpener. 2,281,055; Apr. 28.
Smithe, F. L., Machine Co. (See Novick, Abraham, assignor.)
Smyers, William H., Westfield, N. J., assignor to Standard Oil Development Company. Coating composition and making same. 2,280,860; Apr. 28.
Snook, George J. (See Hearn, W. R., Snook, and Challeen.)
Snow, Robert Dewey. (See Frey, F. E., Snow and Schulz.)
Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain. (See Borel, Edouard V., assignor.)
Société La Precision Mecanique. (See Outin, Jean, assignor.)
Socony-Vacuum Oil Company, Incorporated. (See Clewell, Dayton H., assignor.)
Socony-Vacuum Oil Company. (See Fuller, Everett W., assignor.)
Socony-Vacuum Oil Company, Incorporated. (See Simpson, T. P., Payne and Crowley, Jr., assignors.)
Solar Aircraft Company. (See Huntoon, Russell C., assignor.)
Solvay Process Company, The. (See Datin, Richard C., assignor.)
Somes, Howard E., Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Transformer distributing system. 2,280,861; Apr. 28.
Somes, Howard E., Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Induction heat treating apparatus. 2,281,297; Apr. 28.
Somes, Howard E., Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Induction heat treating apparatus. 2,281,298; Apr. 28.
Somes, Howard E., Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Induction heat treating apparatus. 2,281,331; Apr. 28.
Somes, Howard E., Grosse Pointe Park, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Varying dimension. 2,281,332; Apr. 28.
Somes, Howard E., Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Progressive heat treating apparatus. 2,281,333; Apr. 28.
Somes, Howard E., Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Heat treatment. 2,281,334; Apr. 28.
Somes, Howard E., Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Induction heating. 2,281,335; Apr. 28.
Sorenson, Ben E., Upper Darby, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating composition and preparation. 2,280,862; Apr. 28.
Sorenson, Ben E., Upper Darby, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Oxyesters of alpha-beta acids and unsaturated alcohols. 2,281,304; Apr. 28.
Special Equipment Company. (See Ewald, R. L., and Skog, assignors.)
Sperry Gyroscope Company. (See Harding, W. G., and Nisbet, assignors.)
Spieth, William S., and C. E. Tack, assignor to American Steel Foundries, Chicago, Ill. Brake. 2,281,537; Apr. 28.
Squibb, E. R., & Sons. (See Fernholz, Erhard, assignor.)
Stacom, Matthew J., Flushing, assignor to Stacom Process Corporation, Long Island City, N. Y. Recovery of rubber. 2,281,336; Apr. 28.
Stacom Process Corporation. (See Stacom, Matthew J., assignor.)
Stafford, Stephen B., Oxford, Mass., assignor to Rice Barton Corporation. Textile printing apparatus. 2,281,211; Apr. 28.
Standard Oil Development Company. (See Smyers, William H., assignor.)
Standard Stoker, Incorporated, The. (See Surdy, Charles J., assignor.)
Stargardt, Helen, Detroit, Mich. Floor conveyer for trucks. 2,281,120; Apr. 28.
Steele, Oliver W., St. Louis, Mo. Material sizing mechanism. 2,281,174; Apr. 28.
Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Method of making heat exchangers. 2,281,299; Apr. 28.
Stegeitz, Hans, Berlin-Johannisthal, and W. Schreiner, Berlin-Niederschonhousen, Germany, assignors to General Electric Company. Circuit breaker fluid pressure operated system. 2,281,337; Apr. 28.
Stern, Edward, & Company. (See Chambers, Carl C., assignor.)
Stern, Raphael L., South River, N. J., assignor to Hercules Powder Company, Wilmington, Del. Cellulose acetate molding composition. 2,280,863; Apr. 28.
Steudel, Erich O. (See Cullomer, Frank J., assignor.)
Stevens, Clarence E., Greenwich, Conn., assignor to Electrolux Corporation, Dover, Del. Swivel connection. 2,281,082; Apr. 28.
Stevens, Joseph R. (See Keresztesy, J. C., and Stevens.)
Stevens, Roderick G., Jr., Chicago, Ill. Package and display carton. 2,280,935; Apr. 28.
Stewart-Warner Corporation. (See Davis, Ernest W., assignor.)
Stoltz, Glenn E., Edgewood, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Control system for rolling mills. 2,281,083; Apr. 28.
Stoltzfus, Christian U., Joanna, Pa. Material spreader. 2,281,212; Apr. 28.
Stössel, Max, assignor to Otto Stössel, Chicago, Ill. Mold. 2,280,864; Apr. 28.
Stössel, Max, New York, N. Y., assignor to O. Stossel, Chicago, Ill. Production of spray metal negatives of models. 2,280,865; Apr. 28.
Stössel, Max, New York, N. Y., assignor to Otto Stossel, Chicago, Ill. Production of spray metal negatives of models. 2,280,866; Apr. 28.
Stossel, Otto. (See Stössel, Max, assignor.)
Stover, Herbert F., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wire supporting clip. 2,280,983; Apr. 28.
Straight, Merton T., Des Moines, Iowa. Load bearing acoustic building block. 2,281,121; Apr. 28.
Straka, Frank G., assignor to Universal Oil Products Company, Chicago, Ill. Hydrocarbon conversion. 2,281,338; Apr. 28.
Stratford Development Corporation. (See Putney, David H., assignor.)
Stratton, Albert C., assignor to A. C. Marlow, Ridgewood, N. J. Priming means for self-priming pumps. 2,281,175; Apr. 28.
Stratton, Norman V., St. Johns, Newfoundland. Thimble thread cutter. 2,281,391; Apr. 28.
Straubel, Clarence W., assignor to The General Fireproofing Company, Youngstown, Ohio. Divider for filing drawers. 2,281,463; Apr. 28.
Straubel, Clarence W., assignor to The General Fireproofinf Company, Youngstown, Ohio. Drawer follower. 2,281,464; Apr. 28.
Straubel, Clarence W., assignor to The General Fireproofing Company, Youngstown, Ohio. Extensible filing drawer. 2,281,465; Apr. 28.
Strawn, Orval R., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Jig. 2,281,530; Apr. 28.
Sullivan Machinery Company. (See Paget, Win W., assignor.)
Surdy, Charles J., Erie, Pa., assignor to The Standard Stoker, Incorporated. Locomotive stoker. 2,281,122; Apr. 28.
Susie, Alfred G., Boston, Mass., assignor to Purdue Research Foundation, Lafayette, Ind. Nitro alcohol. 2,281,253; Apr. 28.

Sutherland, Ernest E., and L. E. Lown, Mansfield, Ohio, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Range assembly. 2,281,084; Apr. 28.
Svenska Jästfabriks Aktiebolaget. (See Rosenqvist, Sven O., assignor.)
Swan, Harold A., Coronado, Calif. Abrading and blackboard cleaning machine. 2,280,867; Apr. 28.
Swanson, David A., Chicago, Ill. Convertible tandem bicycle. 2,280,936; Apr. 28.
Swern, Perry W. (See Hummel, S. K., and Swern.)
Swift, Cyrus. (See Simon, Cy I.)
Sylvania Industrial Corporation. (See Reichel, F. H., and Cornwell, assignors.)
Tack, Carl E. (See Spieth, W. S., and Tack.)
Tack, Carl E., assignor to American Steel Foundries, Chicago, Ill. Brake arrangement. 2,280,868; Apr. 28.
Taggart, Joseph I., Cleveland, Ohio. Incubator. 2,281,339; Apr. 28.
Talmey, Paul, assignor to Radio Inventions, Inc., New York, N. Y. Electrolytic recording paper. 2,281,013; Apr. 28.
Talon, Inc. (See Carlile, Alfred E., assignor.)
Talon, Inc. (See Newhall, Arthur B., assignor.)
Talon, Inc. (See Poux, Noel J., assignor.)
Taylerson, Ewart S. (See Bargfeldt, H. G., Quibley and Taylerson.)
Taylor, Charles M. (Cee Barron, Blum G., Taylor and Barron (F. D.)
Teetor, Macy O., Newcastle, assignor to The Perfect Circle Company, Hagerstown, Ind. Piston ring. 2,281,123; Apr. 28.
Telefunken Gesellschaft für Drahtlose Telegraphie. (See Brück, Lothar, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Hofer, Rudolf, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Zehlendorf. (See Willwacher, E., and Gollub, assignors.)
Terry, Clifford B., Flushing, assignor to Lily-Tulip Cup Corporation, New York, N. Y. Multiunit cup dispenser. 2,281,466; Apr. 28.
Terzian, Harutyun G., Philadelphia, Pa., assignor to United Engineers & Constructors Inc. Making carburetted water gas. 2,280,869; Apr. 28.
Thaden, Herbert V., Mount Lebanon, Pa. Bomb and making same. 2,281,213; Apr. 28.
Thelander, W. Vincent, Rockford, Ill. Friction clutch. 2,280,870; Apr. 28.
Thiele, William F., and H. B. Richmond, assignors to Consolidated Water Power and Paper Company, Wisconsin Rapids, Wis. Paper coating device. 2,281,340; Apr. 28.
Thomas, Pernal F. (See Haist, W. E., and Thomas.)
Thorne, Earle D. (See Franklin, R. E., and Thorne.)
Thornhill, Peter W., and J. K. Simpson, Leamington Spa, assignors to Automotive Products Company Limited, Leamington Spa, Warwickshire, England. Pressure regulating device for fluid supply systems. 2,280,937; Apr. 28.
Thorp, Joel R., assignor to The Fulton Company, West Allis, Wis. Brake lever. 2,281,467; Apr. 28.
Thunstrom, Nils A. (See Parke, P., and Thunstrom.)
Thurnau, Carl G., Utica, N. Y. Portable booth. 2,280,984; Apr. 28.
Tidd, Arthur A. (See Hodson, S. M., and Tidd.)
Tilton & Cook Co. (See Holden, Crofton C., assignor.)
Tinnerman, George A., assignor, by mesne assignments, to Tinnerman Products, Inc., Cleveland, Ohio. Fastening device. 2,281,056; Apr. 28.
Tinnerman Products, Inc. (See Tinnerman, George A., assignor.)
Titanium Alloy Manufacturing Company, The. (See Comstock, George F., assignor.)
Toland, William C., and E. Bassist, assignors to William Craig Toland, Brookline, Mass., trustee. Printing plate support. 2,280,985; Apr. 28.
Toland, William C. (See Toland, W. C., and Bassist, assignors.)
Toland, William C., and E. Bassist, Brookline, Mass., assignors to William Craig Toland, trustee. Coating materials. 2,280,986; Apr. 28.
Towmotor Co. (See Lehmann, M., and Guerin, assignors.)
Towmotor Co. (See Sears, Lester M., assignor.)
Trassl, Hans, Berlin-Siemensstadt, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Method and connection for starting alternating current motors. 2,280,987; Apr. 28.
Travis, Charles, Wyndmoor, assignor, by mesne assignments, to Philco Radio and Television Corporation, Philadelphia, Pa. Noise limiting circuits. 2,281,395; Apr. 28.
Trumbull Electric Manufacturing Company, The. (See Anderson, William C., assignor.)
Turnbull, Werd W., Chattanooga, Tenn. Reinforced cone. 2,281,217; Apr. 28.
Turner, Arthur F. (See Cartwright, C. H., and Turner.)
Turner and Newall Limited. (See Ellison, Wilfred J., assignor.)
Turner, John, Contoocook, N. H. Chair or seat. 2,281,341; Apr. 28.

Tuthill, Walter W., Jackson Heights, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Control system. 2,280,871; Apr. 28.
Udy, Marvin J., Niagara Falls, N. Y. Altering the composition of molten metal. 2,280,872; Apr. 28.
Udy, Marvin J., Niagara Falls, N. Y. Production of chromium-bearing alloys. 2,280,873; Apr. 28.
Udy, Marvin J., Niagara Falls, N. Y. Metallurgy. 2,281,216; Apr. 28.
Union Switch & Signal Company, The. (See Allen, Earl M., assignor.)
Union Switch & Signal Company, The. (See Caille, Georges L., assignor.)
Union Switch & Signal Company. (See Parrill, Easton E., assignor.)
United-Carr Fastener Corporation. (See Jones, Walter I., assignor.)
United-Carr Fastener Corporation. (See Powell, Leonard A., assignor.)
United Engineers & Constructors, Inc. (See Terzian, Harutyun G., assignor.)
United Shoe Machinery Corporation. (See Cushman, Lee H., assignor.)
United Shoe Machinery Corporation. (See Johnson, Joseph W., assignor.)
United States Hoffman Machinery Corporation. (See Francey, William J., assignor.)
Universal Oil Products Company. (See Benedict, W. L., and Ahlberg, assignors.)
Universal Oil Products Company. (See Gerhold, Clarence G., assignor.)
Universal Oil Products Company. (See Johnstone, W. W., and Benedict, assignors.)
Universal Oil Products Company. (See Leffer, Friedrich W., assignor.)
Universal Oil Products Company. (See Morrell, Jacque C., assignor.)
Universal Oil Products Company. (See Seguy, Jean D., assignor.)
Universal Oil Products Company. (See Straka, Frank G., assignor.)
Utility Patents Trust. (See Cowles, Irving, assignor.)
Vaillancourt, Robert M. (See Ogden, Hubert S., assignor.)
Van Auken, Charles M., Higland Park, Mich. Grille guard. 2,281,215; Apr. 28.
Vanderbilt, Byron M., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Fatty acid salts of amino alcohols. 2,281,177; Apr. 28.
Van Erp, Karl J., Staten Island, assignor to American Voith Contact Company, Incorporated, New York, N. Y. Turbo machine. 2,281,214; Apr. 28.
Van Lammeren, Johannes A., Eindhoven, Netherlands, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Wireless receiver. 2,281,468; Apr. 28.
Van Tongeren, Hermannus. (See Groenema, J. J., and van Tongeren.)
Varian, Russell H. (See Hansen, W. W., and Varian.)
Vibbard, Edward L., St. Albans, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Relay selecting circuit. 2,281,396; Apr. 28.
Victor Insulators, Inc. (See Dykstra, L. J., and Meyer, assignors.)
Victor Insulators, Inc. (See Santomieri, Sebastian L., assignor.)
Vincent, George P., Poughkeepsie, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Preparation of chlorine dioxide, ClO_2. 2,280,938; Apr. 28.
Visconti, Daniel, and E. R. Visconti, South Weymouth, Mass. Garment supporter. 2,281,342; Apr. 28.
Visconti, Esther R. (See Visconti, Daniel, and E. R.)
Von Hofe, George W., Bound Brook, assignor to New Jersey Machine Corporation, Hoboken, N. J. Labeling apparatus. 2,281,397; Apr. 28.
Von Phul, William, Jr., New York, N. Y. Liquid storage and distribution system. 2,281,057; Apr. 28.
Voorhies, Carl. (See Wright, R. M., and Voorhies.)
Wade, Charles E., Sturgis, Mich. Circuit continuing device. 2,281,186; Apr. 28.
Wahlmark, Gunnar A., Rockford, Ill. Fluid pressure generating or actuated means. 2,280,875; Apr. 28.
Waldo, John E., assignor to Armstrong Manufacturing Co., Bridgeport, Conn. Tool drive. 2,281,300; Apr. 28.
Waldorf Paper Products Company. (See Boeye, Paul F., assignor.)
Walker, Cranford P., San Marino, Calif. Determining the location of obstructions in wells. 2,281,301; Apr. 28.
Walker, David V., Wichita, Kans. Advertising signboard construction. 2,281,343; Apr. 28.
Wallace, John H., Alhambra, assignor to Pacific Enterprise Products, Inc., Los Angeles, Calif. Method and means of vapor phase cooling of fluid jacketed cylinders. 2,281,091; Apr. 28.
Walley, Percy E., Corwith, Iowa. Refrigeration unit. 2,281,398; Apr. 28.
Warren, William H., et al. (See Felsing, Howard, assignor.)
Waterbury Buckle Company, The. (See La Vigne, Jerome R., assignor.)
Waters, Harry F., New York, N. Y. Machine and method for packing commodities. 2,281,187; Apr. 28.

Wattles, Joseph W., 3rd, Canton, Mass., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Heat control. 2,281,399; Apr. 28.
Webb, Samuel. (See Nesbitt, A. B., and Webb.)
Weddle, John P., and J. W. Meyers, Weleetka, Okla., said Weddle assignor of ten percent to said Meyers. Dado, gain and miter saw. 2,281,469; Apr. 28.
Weinhart, Howard W., Elizabeth, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Luminescent screen. 2,280,939; Apr. 28.
Weise, Albert F., West View, Pa. Pan lifter. 2,281,015; Apr. 28.
Weiser, Mary L., assignor to Walt Disney Productions, Los Angeles, Calif. Pencil composition. 2,280,988; Apr. 28.
Welby, Henry R., assignor to Detroit Lubricator Company, Detroit, Mich. Lubricating device. 2,281,400; Apr. 28.
Westcott, Brayton W., Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Internal combustion engine. 2,281,124; Apr. 28.
Welch, Earl M., Floral Park, N. Y. Photographic camera and projector. 2,280,989; Apr. 28.
Westerberg, Oliver D. (See Butler, R. F., and Westerberg.)
Western Electric Company, Incorporated. (See Bertalan, E., and Moeller, assignors.)
Western Electric Company, Incorporated. (See Blount, H., and Arkema, assignors.)
Westinghouse Electric & Manufacturing Company. (See Barnsteiner, A., and Lockwood, assignors.)
Westinghouse Electric & Manufacturing Company. (See Barrow, G. M., and Lenehan, assignors.)
Westinghouse Electric & Manufacturing Company. (See Bostwick, Myron A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Brace, Porter H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Buchanan, Lloyd W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Cook, Willard G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Dyer, L. W., and Gamel, assignors.)
Westinghouse Electric & Manufacturing Company. (See Foresman, Robert A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Gamel, G. D., and Dyer, assignors.)
Westinghouse Electric & Manufacturing Company. (See Geiselman, Ralph A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Gulliksen, Finn H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Harder, Edwin L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jennings, Charles H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Johns, Francis J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jones, Charles L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lee, Paul R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Leonard, Merrill G., assignor.)
Westinghouse Electric & Manufacturing Company. (See MacNeil, J. B., Baker, and Bakken, assignors.)
Westinghouse Electric & Manufacturing Company. (See Mueller, Erich O., assignor.)
Westinghouse Electric & Manufacturing Company. (See Nadal, A., and Harrison, assignors.)
Westinghouse Electric & Manufacturing Company. (See Oplinger, Kirk A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Packer, Lewis C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Pennow, Willis A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Philippi, Hermann, assignor.)
Westinghouse Electric & Manufacturing Company. (See Pollard, Ernest I., assignor.)
Westinghouse Electric & Manufacturing Company. (See Read, Ernest K., assignor.)
Westinghouse Electric & Manufacturing Company. (See Reichmann, Reinhold, assignor.)
Westinghouse Electric & Manufacturing Company. (See Rollins, James R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Saler, Jules N., assignor.)
Westinghouse Electric & Manufacturing Company. (See Samselius, John W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Schaelchlin, Walter, assignor.)
Westinghouse Electric & Manufacturing Company. (See Stoltz, Glenn E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Sutherland, E. E., and Lown, assignors.)
Westinghouse Electric & Manufacturing Company. (See Trassl, Hans, assignor.)
Westinghouse Electric & Manufacturing Company. (See Wickerham, W. R., and Borland, assignors.)
Westinghouse Electric & Manufacturing Company. (See Zworykin, Vladimir K., assignor.)
White, Carl B., Brookline, Mass. Stop motion. 2,281,188; Apr. 28.
White, Charles E., Abington, assignor to Abington Textile Machinery Works, Boston, Mass. Carding machine. 2,281,344; Apr. 28.
White, Eric L. C., Hillingdon, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England. Thermionic valve circuits for the generation of saw tooth currents. 2,280,990; Apr. 28.
Whitlock Cordage Company. (See Hetzel, John A., assignor.)
Wichorek, Edmund F. (See Kanuch, J., and Wichorek.)
Wickerham, William R., Swissvale, and J. E. Borland, Wilkinsburg, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Motor control system. 2,280,991; Apr. 28.
Wiemer, Gustav, Los Angeles, Calif. Leak indicator. 2,281,125; Apr. 28.
Wightman, Lillian G., Chicago, Ill. Bottle holder. 2,280,940; Apr. 28.
Wilckens, Ernst. (See Dallenbach, W., Wilckens, and Pupp.)
Wilcox, Ralph R. (See Eddy, R. F., Moeller, Wilcox, and Eddy.)
Wilkinson, Farley J., Homewood, Ill. Pipe fitting. 2,281,178; Apr. 28.
Willard Storage Battery Company. (See Sears, Richard E., assignor.)
Williams, Floyd E. (See Irving, H. F., and Williams.)
Williams, Jacob O., San Bernardino, Calif. Float operated switch. 2,281,127; Apr. 28.
Willits, Samuel R., assignor to Bendix Aviation Corporation, South Bend, Ind. Float valve for carburetors. 2,281,126; Apr. 28.
Willwacher, Erwin, and H. Gollub, assignors to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Zehlendorf, Osteweg, Berlin, Germany. Neutralized short wave amplifier circuit. 2,281,345; Apr. 28.
Wilson, Chester E., San Pedro, Calif. Lubricating oil composition. 2,281,401; Apr. 28.
Wilson, Eldon M. (See Baum, Fred J., and Wilson.)
Wilson, Francis V., Jr., Morrisville, Pa., and J. W. Germond, Trenton, assignors to Homasote Company, Incorporated, Fernwood, Ewing Township, N. J. Framing construction. 2,281,402; Apr. 28.
Wilson, William W., Huntington Park, Calif. Elevator. 2,281,128; Apr. 28.
Windsor, Otis A., Santa Monica, assignor, by mesne assignments, to Armstrong Tool Manufacturing Company, Los Angeles, Calif. Electric drill. 2,281,218; Apr. 28.
Wingquist, Sven G., Remningstorp, Sweden. Universal joint. 2,281,403; Apr. 28.
Winnek, Philip S., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Aminoarylsulphonamido-pyrazolones. 2,281,014; Apr. 28.
Winterbourne, Clarence A., Seymour, Conn. Cigarette package wrapper. 2,281,058; Apr. 28.
Wolff, Georg. (See Edhofer, G., and Wolff.)
Wolff, Otto E., Arlington, Mass., assignor to Polaroid Corporation, Dover, Del. Ophthalmic mounting. 2,281,129; Apr. 28.
Woodruff Company, The. (See Woodruff, Edward M., assignor.)
Woodruff, Edward M., assignor to The Woodruff Company, Auburn, N. Y. Making brooches and the like. 2,281,130; Apr. 28.
Wright, Alfred M., Oakland, Calif. Catcher attachment for power hedge-trimmers. 2,281,189; Apr. 28.
Wright, Parvin, assignor of fifty-one per cent to R. W. Bauer, Seattle, Wash. Cleaning apparatus. 2,281,131; Apr. 28.
Wright, Ralph T., assignor to Eversbed & Vignoles Limited, Cheswick, London, England. Electrical measuring instrument. 2,281,470; Apr. 28.
Wright, Russell M., and C. Voorhies, Detroit, Mich. Apparatus for treating nasal organs. 2,280,992; Apr. 28.
Wurster, Lewis, Gashland, Mo., assignor of twenty-five per cent to E. A. Jewell, and twenty-five per cent to A. G. Jewell, Kansas City, Kans. Portable electric refrigerator. 2,281,404; Apr. 28.
Yellow Truck & Coach Manufacturing Company. (See Austin, Dwight E., assignor.)
Yonaka, Howard H., Algonac, Mich. Indexed book or the like. 2,280,874; Apr. 28.
Young, Joseph L. (See Freeman, Arthur C., assignor.)
Young, Leonard A., Detroit, Mich. Wire drawing. 2,281,132; Apr. 28.
Zesbaugh, Lawrence G. (See O'Neil, J. G., and Zesbaugh.)
Ziegler, Nicholas A., and H. W. Northrup, assignors to Crane Co., Chicago, Ill. Alloy steel. 2,281,219; Apr. 28.
Zugelter, Frank. (See Bart, T. E., Gowdy, and Zugelter.)
Zugelter, Frank. (See Murdock, R. J., Bart, Zugelter, and Kinney.)
Zugelter, Frank, assignor to The Murdock Manufacturing and Supply Company, Cincinnati, Ohio. Antipolution drinking fountain. 2,280,876; Apr. 28.
Zworykin, Vladimir K., Forest Hills, N. Y., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Television system. 2,280,877; Apr. 28.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 28TH DAY OF APRIL, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Bushing. E. D. Treanor. Re. 22,086; Apr. 28.
Car, Drop bottom. E. W. Duncan. Re. 22,082; Apr. 28.
Gaseous and vapor electric discharge device. G. E. Inman. Re. 22,083; Apr. 28.
Pad, Football shoulder. E. M. Lookabaugh. Re. 22,084; Apr. 28.
Petroleum oil content of earth samples, Determining the. J. G. Campbell. Re. 22,081; Apr. 28.
Speed unit, Multiple-belt variable. P. B. Reeves. Re. 22,085; Apr. 28.
Tire manufacture. A. C. Bowers. Re. 22,080; Apr. 28.

LIST OF PLANT INVENTIONS

Raspberry, Red. B. D. Drain. 512; Apr. 28.
Rose. H. L. McClung. 511; Apr. 28.
Tree, Pecan. R. A. Harris. 510; Apr. 28.

LIST OF DESIGN INVENTIONS

Air conditioning unit. F. M. Jones. 132,182; Apr. 28.
Altar. L. J. Murphy. 132,193; Apr. 28.
Badge or similar article. I. A. Stark. 132,186; Apr. 28.
Bank, Budget. M. A. Vendig. 132,205; Apr. 28.
Bath, Electrically heated water. S. Duberstein. 132,176; Apr. 28.
Bottle or similar article. M. S. Ireys. 132,180; Apr. 28.
Building. S. F. Hansell. 132,177; Apr. 28.
Cabinet or similar article, Merchandise display. G. M. Graham. 132,168; Apr. 28.
Casing, Adjustable chair. H. Dreyfuss. 132,210; Apr. 28.
Casing or similar article, Air washer. A. J. Dalton. 132,175; Apr. 28.
Chair. W. A. Burke. 132,165; Apr. 28.
Chair. W. A. Burke. 132,174; Apr. 28.
Coat. I. Buchholz. 132,208; Apr. 28.
Crate, Milk bottle. J. A. Christensen. 132,209; Apr. 28.
Dispenser or similar article, Powder. F. McIntosh. 132,185; Apr. 28.
Display plate for automobiles. H. Eizenberg. 132,203; Apr. 28.
Doll group. D. Mohr. 132,206; Apr. 28.
Dress. B. Cashin. 132,215–20; Apr. 28.
Dress. B. Cashin. 132,222; Apr. 28.
Dress. E. Cutler. 132,224; Apr. 28.
Dress. S. Elmo. 132,226–8; Apr. 28.
Dress. A. S. Gross. 132,229–32; Apr. 28.
Dress. E. Rosenberg. 132,233–6; Apr. 28.
Dress ensemble. B. Cashin. 132,221; Apr. 28.
Dress ensemble. B. Cashin. 132,223; Apr. 28.
Dress ensemble. E. Rosenberg. 132,237; Apr. 28.
Dress ensemble. P. Zahn. 132,239; Apr. 28.
Flag, Service. J. W. Mellen. 132,204; Apr. 28.
Garment, Child's combination. D. Widrow. 132,188; Apr. 28.
Index, Telephone. P. D. Palmer. 132,207; Apr. 28.
Jewelry finding. L. Valcourt. 132,187; Apr. 28.
Lamp, Fluorescent. E. F. Miller. 132,213; Apr. 28.
Lamp, Fluorescent table. C. E. Swanson. 132,214; Apr. 28.
Lamp or similar article, Vehicle. S. M. Dover. 132,167; Apr. 28.
Mask or similar article, Aviator's oxygen. W. M. Boothby and W. R. Lovelace, II. 132,172; Apr. 28.
Mask, Oronasal. W. M. Boothby and W. R. Lovelace, II. 132,173; Apr. 28.
Nozzle, Spray. J. O. Lewis. 132,183; Apr. 28.
Pennant or similar article. I. Hordes. 132,179; Apr. 28.
Plaque. G. P. Alvino. 132,170; Apr. 28.
Projector, Illuminating. W. F. Peck. 132,169; Apr. 28.
Rack or the like, Bowling ball. R. E. Kennedy. 132,212; Apr. 28.
Rack, Phonograph record. F. D. Slough. 132,201; Apr. 28.
Receptacle or similar article, Refuse. R. C. Holslag. 132,178; Apr. 28.
Register, Automatic. C. W. Sundberg. 132,238; Apr. 28.
Shoe. C. H. Daniels. 132,196–7; Apr. 28.
Shoe or similar article. N. Elkin. 132,198; Apr. 28.
Spectacles, Pair of. G. E. Newney. 132,199–200; Apr. 28.
Statuette. L. Jiranek. 132,181; Apr. 28.
Strap, Headgear chin. H. J. Lyon. 132,184; Apr. 28.
Suit. A. Ducket. 132,225; Apr. 28.
Switch or the like, Automobile horn keyboard. P. Nielsen. 132,194; Apr. 28.
Table and score projector or similar article, Combined score. E. J. Cloutier. 132,240; Apr. 28.
Table, Bowling alley score. A. Bersin. 132,171; Apr. 28.
Table or the like, Score. E. J. Cloutier. 132,166; Apr. 28.
Table or the like, Toy dressing. J. Pressman. 132,243; Apr. 28.
Textile fabric. R. H. Coe. 132,241–2; Apr. 28.
Textile fabric. J. E. Maisch. 132,190–2; Apr. 28.
Textile fabric, Woven. P. L. Lawrence. 132,189; Apr. 28.
Trimming or similar article, Lace. H. Tobler. 132,202; Apr. 28.
Truck, Utility. O. R. Peterson. 132,211; Apr. 28.
Umbrella ferrule. M. Shedlo. 132,195; Apr. 28.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 28TH DAY OF APRIL, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrading and blackboard cleaning machine. H. A. Swan. 2,280,867; Apr. 28.
Abrasive article, Coated. N. P. Robie. 2,280,852; Apr. 28.
Abrasive, Built-up. J. C. Drader. 2,281,420; Apr. 28.
Absorbent sealing cap. J. M. Marti and A. F. Pinol. 2,281,105; Apr. 28.
Accelerator and brake control. J. L. Siesennop. 2,280,859; Apr. 28.
Acid and process for the manufacture thereof, Derivatives of α-cyano-γ-acetylglutaric. M. Hoffer. 2,280,774; Apr. 28.
Acid, Preparation of ortho-hydroxy-cinnamic. J. Kamlet. 2,280,918; Apr. 28.
Acid salts of amino alcohols, Fatty. B. M. Vanderbilt. 2,281,177; Apr. 28.
Acids from tall oil, Isolating fatty. A. F. Oliver and R. C. Palmer. 2,280,842; Apr. 28.
Acyl derivatives of germinal gland hormone preparations of high activity, and producing the same. W. Schoeller, F. Hilderbrandt, and E. Schwenk. 2,280,858; Apr. 28.
Adjustable seat. D. E. Austin. 2,280,882; Apr. 28.
Aeration of fermenting wort in the manufacture of yeast. S. O. Rosenqvist. 2,281,457; Apr. 28.
Aerial flight instrument. C. J. Crane. 2,280,797; Apr. 28.
Agitating means for photographic developing baths. C. C. Chambers. 2,281,094; Apr. 28.
Agitator, Muller and motor driven. B. L. Simpson. 2,281,329; Apr. 28.
Air compressor system. H. F. Parker. 2,280,845; Apr. 28.
Air conditioning device. J. R. Eck. 2,281,002; Apr. 28.
Air conditioning system. J. P. Milar. 2,281,244; Apr. 28.
Aircraft. A. Lysholm. 2,280,835; Apr. 28.
Aircraft landing gear. G. H. Dowty. 2,281,351; Apr. 28.
Air drier for paper. H. H. Hanson. 2,281,496; Apr. 28.
Alcohol from alcoholic mixtures, Recovering. I. E. Knapp, R. E. Price, and H. A. Brondum. 2,281,311; Apr. 28.
Alkaloid and its production, Erythrina. R. T. Major and K. Folkers. 2,280,837; Apr. 28.
Alkaloids of species of erythrina and processes for their production. K. Folkers and F. Koniuszy. 2,280,816; Apr. 28.
Alloy steel. N. A. Ziegler and H. W. Northrup. 2,281,219; Apr. 28.
Alloys, Production of chromium-bearing. M. J. Udy. 2,280,873; Apr. 28.
Altitude determining means and method. L. Hammond. 2,281,284; Apr. 28.
Alumina recovery process. R. W. Brown. 2,280,998; Apr. 28.
Amides, Polyester. D. D. Coffman. 2,281,415; Apr. 28.
Aminoarylsulphonamido-pyrazolones. P. S. Winnek. 2,281,014; Apr. 28.
Amplifier, Feedback. Q. E. Greenwood. 2,281,238; Apr. 28.
Annuli, Rolling internally flanged. D. S. Bell and B. W. Dunham. 2,280,783; Apr. 28.
Antenna. D. W. R. Goddard. 2,281,429; Apr. 28.
Antifreeze, antipollution fresh water connection. R. C. Gowdy. 2,280,820; Apr. 28.
Apparatus and method for dispersing liquids. R. C. Datin. 2,280,895; Apr. 28.
Apparatus and system for measuring torque. Y. Boles. 2,281,226; Apr. 28.
Apparatus for delivering paper stock to paper making machines. R. T. Lang. 2,281,293; Apr. 28.
Apparatus for determining the degree of fatigue in drill pipe and the like. E. K. Lane. 2,281,163; Apr. 28.
Apparatus for determining the dew point of gases under pressure. W. M. Deaton and E. M. Frost, Jr. 2,281,418; Apr. 28.
Apparatus for dissolving rock salt. T. F. Courthope, S. Martin, and R. G. Sickly. 2,281,140; Apr. 28.
Apparatus for forming helical plow screws. M. H. Pitcher. 2,280,847; Apr. 28.
Apparatus for handling coils. K. Egge. 2,281,423; Apr. 28.
Apparatus for handling metal strip. J. F. Ferm. 2,280,943; Apr. 28.
Apparatus for illustrating economic laws. J. D. Mooney. 2,281,368; Apr. 28.

Apparatus for making metallic ribbon. H. Blount and E. P. Arkema. 2,281,230; Apr. 28.
Apparatus for melting metals by electromagnetic induction. C. Q. Payne. 2,281,170; Apr. 28.
Apparatus for mining coal. N. D. Levin. 2,281,503; Apr. 28.
Apparatus for partially drying moist clay bodies. L. J. Dykstra and E. M. Meyer. 2,281,184; Apr. 28.
Apparatus for placing explosives. G. C. MacDonald. 2,281,103; Apr. 28.
Apparatus for testing by impact. F. W. Preston. 2,281,324; Apr. 28.
Apparatus for treating nasal organs. R. M. Wright and C. Voorhies. 2,280,992; Apr. 28.
Apparatus for treating thread or the like. R. F. Bergmann. 2,281,406; Apr. 28.
Apparatus for washing impurities from gas. A. W. Anthony, Jr. 2,281,254; Apr. 28.
Applicator. N. J. Moll. 2,281,367; Apr. 28.
Articles with volatile solvents, Treating. G. Edhofer and G. Wolff. 2,280,811; Apr. 28.
Asbestos fibrous material, Opening and cleansing of. W. J. Ellison. 2,280,902; Apr. 28.
Asbestos from granular asbestos-bearing rock, Separation and recovery of short fibrous. W. J. Ellison. 2,280,903; Apr. 28.
Assembling articles, Method and apparatus for. E. Bertalan and L. J. Moeller. 2,281,190; Apr. 28.
Assembling machine. N. Chirelstein. 2,281,478; Apr. 28.
Assembling machines, Grouping and arranging mechanism for packet. W. C. Nicodemus. 2,281,006; Apr. 28.
Automatic intake and outlet valve. J. S. Seney and H. N. Seney. 2,281,053; Apr. 28.
Bag: *See*—
Paper bag.
Bait, Artificial. C. C. Clark. 2,281,480; Apr. 28.
Baseball mitt. H. B. Latina. 2,281,315; Apr. 28.
Bassinet unit. S. K. Hummel and P. W. Swerm. 2,280,913; Apr. 28.
Batch feeding apparatus. J. H. Redshaw. 2,281,050; Apr. 28.
Bathing device, Infant's. D. M. Kennedy. 2,281,309; Apr. 28.
Bearing: *See*—
Moment distributing bearing.
Bearing lubrication and drainage, Hydraulic clutch thrust. A. Kuhns and E. R. Gasser. 2,281,161; Apr. 28.
Bearings, Making. W. J. Peters and W. Pattison. 2,281,246; Apr. 28.
Bed and carriage, Combination. O. D. Smith. 2,281,209; Apr. 28.
Belt, Wrapped. A. L. Freedlander. 2,281,148; Apr. 28.
Benzene sulphonamidyl compounds of sulphanilamide, salts and derivatives thereof, and methods of production. S. M. Rosenthal and H. Bauer. 2,280,856; Apr. 28.
Benzo-quinone, Extraction of. J. C. Schumacher and A. C. Carus. 2,281,327; Apr. 28.
Beverage mixing machine. J. Kantor. 2,281,540; Apr. 28.
Bicycle and the like vehicle. H. O. Olson. 2,281,110; Apr. 28.
Bicycle construction. L. E. Dempsey and M. A. Blu. 2,280,801; Apr. 28.
Bicycle, Convertible tandem. D. A. Swanson. 2,280,936; Apr. 28.
Bit: *See*—
Bridle bit.
Blade support for shaving devices. F. E. Moskovics and V. R. Abrams. 2,280,836; Apr. 28.
Bladed structure. J. Neufeld. 2,281,318; Apr. 28.
Blank feeding mechanism. W. C. Nicodemus and H. D. Brown. 2,281,295; Apr. 28.
Blind, Venetian. A. F. Rice. 2,280,931; Apr. 28.
Block: *See*—
Building block.
Board: *See*—
Ironing board.
Bobbin receiving and holding receptacles. W. P. Homans. 2,281,440; Apr. 28.
Boiler. J. J. Groenema and H. Van Tongeren. 2,281,431; Apr. 28.
Boiler compound. E. L. Smead and S. S. Sadtler. 2,281,392; Apr. 28.
Bomb and making same. H. V. Thaden. 2,281,213; Apr. 28.

Book or the like, Indexed. H. H. Yonaka. 2,280,874; Apr. 28.
Booth, Portable. C. G. Thurnau. 2,280,984; Apr. 28.
Bottle holder. L. G. Wightman. 2,280,940; Apr. 28.
Box: *See*—
Coin box. Secondary service box.
Collapsible box.
Box. F. F. Boeye. 2,281,061; Apr. 28.
Bracket: *See*—
Venetian blind bracket.
Brake: *See*—
Fluid controlled brake. Rotor brake.
Railway brake.
Brake. E. H. Berno. 2,280,784; Apr. 28.
Brake. R. A. Goepfrich. 2,281,150; Apr. 28.
Brake. W. S. Spieth and C. E. Tack. 2,281,537; Apr. 28.
Brake arrangement. W. H. Baselt. 2,281,536; Apr. 28.
Brake arrangement. C. E. Tack. 2,280,868; Apr. 28.
Brake for velocipedes, Backpedaling. S. B. Kurinza, Jr. 2,281,099; Apr. 28.
Brake lever. J. R. Thorp. 2,281,467; Apr. 28.
Brake systems, Adjusting pressure fluid. M. Leichsenring, Jr. 2,281,538; Apr. 28.
Braking system. H. C. Hettelsater. 2,281,288; Apr. 28.
Brick, Refractory. W. H. Henson and K. H. Bird. 2,281,003; Apr. 28.
Brickwork, Refractory. W. R. McLain. 2,281,200; Apr. 28.
Bridge top stop, Locking. A. E. Carlile. 2,281,000; Apr. 28.
Bridle bit. A. E. Rody. 2,280,853; Apr. 28.
Brooches and the like, Making. E. M. Woodruff. 2,281,130; Apr. 28.
Brooder, Pig. J. L. Barragy. 2,280,779; Apr. 28.
Brush. H. Cave and A. L. Le Febvre. 2,281,412; Apr 28.
Brush assembly, Unitary. H. G. Bargfeldt, W. M. Quigley, and E. S. Taylerson. 2,281,256; Apr. 28.
Buckle, Slide. J. R. La Vigne. 2,280,921; Apr. 28.
Building. C. F. Jaeger. 2,281,500; Apr. 28.
Building. A. C. Ketcham. 2,280,832; Apr. 28.
Building block, Glass. G. T. Meyers. 2,281,524; Apr. 28.
Building block, Load bearing acoustic. M. T. Straight. 2,281,121; Apr. 28.
Building construction. A. C. Olsen. 2,281,109; Apr. 28.
Building element. F. Forster. 2,281,185; Apr. 28.
Building structure, Metallic. H. A. Mugler. 2,281,371; Apr. 28.
Building wall. P. E. Knudsen. 2,281,072; Apr. 28.
Burglar alarm. C. Hollingsworth. 2,281,193; Apr. 28.
Bus bar duct conductor. W. C. Anderson. 2,281,221; Apr. 28.
Butchering, Ham. H. H. McKee. 2,281,449; Apr. 28.
Cabinet: *See*—
Storage cabinet.
Cable: *See*—
Nonmetallic sheath cable.
Cable spear. C. N. Metcalf. 2,281,366; Apr. 28.
Cable terminal, Shielded spark plug. J. J. Rose. 2,280,855; Apr. 28.
Camera and projector, Photographic. E. M. Welch. 2,280,989; Apr. 28.
Candle construction. D. A. Fox. 2,281,279; Apr. 28.
Cap: *See*—
Absorbent sealing cap. Dispenser cap.
Coping cap.
Capacitor-tripping device for circuit breakers. L. W. Dyer and G. D. Gamel. 2,280,898; Apr. 28.
Car: *See*—
Railway car.
Carburetor. G. Hammond. 2,281,285; Apr. 28.
Carburetor. S. C. Smith. 2,281,176; Apr. 28.
Card breast waste saving apparatus for carding machines. S. M. Hodsdon and A. A. Tidd. 2,280,911; Apr. 28.
Carding machine. E. Clark. 2,281,268; Apr. 28.
Carding machine. C. E. White. 2,281,344; Apr. 28.
Carton. W. W. Miller. 2,281,165; Apr. 28.
Carton opening, folding, and positioning machine. J. L. Ferguson. 2,280,773; Apr. 28.
Carton, Package and display. R. G. Stevens, Jr. 2,280,935; Apr. 28.
Carton, Packing and shipping. J. L. Gillian. 2,281,304; Apr. 28.
Case: *See*—
Luggage case.
Cash register. J. W. Kelly. 2,280,958; Apr. 28.
Casts, Making face. A. Brady. 2,281,227; Apr. 28.
Catalytic conversion operations, Conducting. T. P. Simpson, J. W. Payne, and J. A. Crowley, Jr. 2,281,527; Apr. 28.
Catalytic production of olefin-sulphur dioxide compounds of high molecular weight. F. E. Frey, R. D. Snow, and W. A. Schulze. 2,280,818; Apr. 28.
Catcher attachment for power hedge-trimmers. A. M. Wright. 2,281,189; Apr. 28.
Cavities, Means and apparatus for preparing inlay. D. W. Phillips. 2,280,927; Apr. 28.
Cellulose acetate molding composition. R. L. Stern. 2,280,863; Apr. 28.
Cellulose fibres from lignified fibrous material, Extraction of. W. T. Kerr. 2,281,504; Apr. 28.
Cement, Rubber. W. M. Kutz. 2,281,087; Apr. 28.
Centrifugal apparatus. O. W. Johnson. 2,280,916; Apr. 28.
Chair. A. E. Jones. 2,281,037–8; Apr. 28.
Chair bed. J. D. Bell. 2,281,085; Apr. 28.
Chair or seat. J. Turner. 2,281,341; Apr. 28.
Charge control system for an internal combustion engine. M. Mallory. 2,281,509; Apr. 28.
Chemical materials, Modifying organic. H. A. Depew. 2,280,802; Apr. 28.
Chloride, Fusing of beryllium. H. S. Cooper. 2,281,235; Apr. 28.
Chlorine dioxide, ClO_2, Preparation of. G. P. Vincent. 2,280,938; Apr. 28.
Choke mechanism for expeller presses, Variable. R. T. Anderson. 2,280,880; Apr. 28.
Churn attachment. G. T. Kilmer. 2,281,242; Apr. 28.
Cigar wrapping mechanism, Needle construction for. S. Clausen. 2,281,095; Apr. 28.
Cigarette package wrapper. C. A. Winterbourne. 2,281,058; Apr. 28.
Circuit: *See*—
Relay selecting circuit. Thermionic relay circuit.
Short wave amplifier circuit. Ultra short wave resonant circuit.
Circuit breaker fluid pressure operated system. H. Stegelitz and W. Schreiner. 2,281,337; Apr. 28.
Circuit breakers, Capacitor tripping device for. G. D. Gamel and L. W. Dyer. 2,280,945; Apr. 28.
Circuit continuing device. C. E. Wade. 2,281,186; Apr. 28.
Circuit interrupter. G. L. Carlisle and F. L. Kradel. 2,281,266; Apr. 28.
Circuit interrupter. J. B. MacNeill, B. P. Baker, and A. H. Bakken. 2,281,042; Apr. 28.
Clamp: *See*—
Sheet metal clamp.
Clamp for gripping the adjacent edges of sheet material. H. R. Jaynes. 2,281,522; Apr. 28.
Cleaner: *See*—
Electric vacuum cleaner. Suction cleaner.
flue cleaner.
Cleaning apparatus. P. Wright. 2,281,131; Apr. 28.
Clip: *See*—
Wire supporting clip.
Clip for wedding and engagement rings, Retaining. F. R. Campana and W. Goetz. 2,281,231; Apr. 28.
Clock. L. Hammond. 2,281,494; Apr. 28.
Clock, Electric. L. Hammond. 2,281,493; Apr. 28.
Closure fastening, File box. H. L. Fellowes. 2,281,486; Apr. 28.
Closure for flexible receptacles. N. Ottinger. 2,281,452; Apr. 28.
Clutch: *See*—
Friction clutch.
Clutch mechanism. J. F. Cullin. 2,281,141; Apr. 28.
Coat and jacket, Combination. L. W. Neumark. 2,281,510; Apr. 28.
Coating apparatus for yarn holders. D. A. Jolley and J. P. Searborough. 2,281,358; Apr. 28.
Coating composition and making same. W. H. Smyers. 2,280,860; Apr. 28.
Coating composition and method of preparation. B. E. Sorenson. 2,280,862; Apr. 28.
Coffee, Roasting green. J. R. Odell, Jr. 2,281,320; Apr. 28.
Coin box. W. J. Englert. 2,281,424; Apr. 28.
Collapsible box. H. A. Carruth. 2,280,793; Apr. 28.
Colloidal dispersion. J. W. Johnson. 2,280,830; Apr. 28.
Color photographic multilayer material. B. Gaspar. 2,281,149; Apr. 28.
Composition of matter and producing the same. E. W. Mace. 2,281,316; Apr. 28.
Compounds of the pentano-polyhydrophenanthrene series, Manufacture of. H. H. Inhoffen. 2,280,828; Apr. 28.
Compression tester for plastic materials. A. Nadai and H. C. Harrison. 2,280,966; Apr. 28.
Computing and listing machine. W. W. Landsiedel. 2,280,919; Apr. 28.
Computing machine. W. W. Landsiedel. 2,280,920; Apr. 28.
Concentrates, Germicidal. L. S. Roehm. 2,281,249; Apr. 28.
Condensation products of styrene and aryl ethers. F. B. Smith and H. W. Moll. 2,281,252; Apr. 28.
Condenser: *See*—
Variable condenser.
Cone, Reinforced. W. W. Turnbull. 2,281,217; Apr. 28.
Connecting rod. L. V. Brewin. 2,281,349; Apr. 28.
Connector: *See*—
Bus bar duct connector.
Connector. R. T. Hennessy. 2,281,098; Apr. 28.
Consistency regulator. F. H. Gulliksen. 2,280,947; Apr. 28.
Container. W. R. Fox. 2,281,303; Apr. 28.
Container. A. E. Simmons. 2,281,251; Apr. 28.
Container and enclosed brush, Shoe polish. P. Lewis and N. Sherhofer. 2,281,532; Apr. 28.
Container and supporting device, Razor strop. J. E. Gillespie. 2,281,428; Apr. 28.
Container handling apparatus. T. M. Royal. 2,281,516; Apr. 28.
Containers, Making enameled. J. A. Bohnsack. 2,281,407; Apr. 28.
Control device. H. L. Newell. 2,281,319; Apr. 28.

Control mechanism for absorption refrigerators. J. Lithgow and L. K. Jackson. 2,280,961; Apr. 28.
Control mechanism for searchlight. W. A. Pennow. 2,281,047; Apr. 28.
Control system. W. G. Cook. 2,281,063; Apr. 28.
Control system. W. W. Tuthill. 2,280,871; Apr. 28.
Control system for automatic phonographs. E. G. Henry. 2,281,435; Apr. 28.
Conveyer. A. D. Sinden. 2,281,026; Apr. 28.
Conveyer drive for processing machine. A. H. Hannon. 2,281,305; Apr. 28.
Coping cap. P. B. Andrews and D. L. Mills. 2,281,092; Apr. 28.
Copyholder. N. Dodds. 2,280,772; Apr. 28.
Copy sheets, Preparing master. J. Bjorksten and W. J. Champion. 2,281,260; Apr. 28.
Corn drier. T. J. Cosfello. 2,281,269; Apr. 28.
Correction device for gyroscopic compasses and the like. W. G. Harding and R. H. Nisbet. 2,281,286; Apr. 28.
Corset. V. Buchanan. 2,281,533; Apr. 28.
Coupling: *See*—
Hose coupling.
Coupling. F. M. Crayton. 2,281,482; Apr. 28.
Coupling means. A. L. Hoover. 2,281,292; Apr. 28.
Cover: *See*—
Foot cover.
Cracking stocks, Treatment of. W. L. Benedict and J. E. Ahlberg. 2,281,257; Apr. 28.
Cup dispenser, Multiunit. C. B. Terry. 2,281,466; Apr. 28.
Current limiting relay. P. R. Lee. 2,280,960; Apr. 28.
Cutter: *See*—
Thimble thread cutter.
Cutters, Making spiral. H. Ruskin. 2,281,250; Apr. 28.
Cutting machine. R. W. DuVal. 2,281,422; Apr. 28.
Cylinder, Master. C. W. Sinclair. 2,281,330; Apr. 28.
Damper winding. E. I. Pollard. 2,280,974; Apr. 28.
Deodorization of animal and vegetable oils. D. K. Dean. 2,280,896; Apr. 28.
Detecting device. J. P. Naes. 2,281,373; Apr. 28.
Device for dispensing and lighting cigarettes or the like. L. V. Aronson. 2,281,060; Apr. 28.
Device for irrigating and treating wounds. J. H. Johnson. 2,280,915; Apr. 28.
Device for partially obstructing a pipe. A. E. Mathey. 2,281,448; Apr. 28.
Device for removing broken studs. H. S. Maling. 2,281,164; Apr. 28.
Die set for making metal-edge filters. P. Heftler. 2,281,439; Apr. 28.
Differential adjustment. C. G. Kronmiller. 2,280,959; Apr. 28.
Differential relay. G. M. Barrow and B. E. Lenehan. 2,280,884; Apr. 28.
Differential stage lift flow device. A. Boynton. 2,280,787; Apr. 28.
Dimensions, Varying. H. E. Somes. 2,281,332; Apr. 28.
Disks and holder therefor, Packaging polishing. P. S. Eckman. 2,281,237; Apr. 28.
Dispenser: *See*—
Cup dispenser. Ice cream cone dispenser.
Drop meter and dispenser.
Dispenser cap. J. D. Becker. 2,281,135; Apr. 28.
Dispensing device for containers. A. H. Peterson. 2,281,380; Apr. 28.
Display assemblage. M. Fink. 2,280,907; Apr. 28.
Display device, Luminous indicia. L. F. Powell. 2,281,049; Apr. 28.
Display rack. E. R. Erickson. 2,281,192; Apr. 28.
Divider for filing drawers. C. W. Straubel. 2,281,463; Apr. 28.
Dough divider mechanism. E. H. Kocher. 2,280,834; Apr. 28.
Draft gear. R. B. Cottrell. 2,281,270; Apr. 28.
Drain platform for washing machines. W. J. Francey. 2,281,031; Apr. 28.
Drawer, Extensible filing. C. W. Straubel. 2,281,465; Apr. 28.
Drawer follower. C. W. Straubel. 2,281,464; Apr. 28.
Drier: *See*—
Corn drier. Hair drier.
Drill: *See*—
Electric drill.
Drive for shallow water boats. E. Johnson. 2,281,156; Apr. 28.
Drive transmission. J. W. Fitz Gerald. 2,281,277; Apr. 28.
Drive transmitting mechanism. W. B. Bronander. 2,281,263; Apr. 28.
Driving mechanism for air rotors especially aircraft sustaining rotors. H. F. Pitcairn. 2,281,203; Apr. 28.
Drop meter and dispenser. A. J. Roger. 2,281,051; Apr. 28.
Drying hanger, Hip boot. M. D. Barney. 2,281,016; Apr. 28.
Dust collecting device. F. A. Kummick. 2,281,313; Apr. 28.
Electric circuit breaker. J. M. Saint-Germain and G. Balachowsky. 2,281,385; Apr. 28.
Electric circuits for producing sparks. O. C. Semonsen. 2,281,115; Apr. 28.
Electric control shaft. J. C. Rah and O. V. Hadley. 2,280,929; Apr. 28.
Electric drill. O. A. Windsor. 2,281,218; Apr. 28.
Electric lighting fixture. A. J. D. Ohm. 2,281,376–9; Apr. 28.
Electric signaling. A. W. Horton, Jr., and M. E. Mohr. 2,281,441; Apr. 28.
Electric vacuum flue cleaner. E. E. Dillion. 2,281,144; Apr. 28.
Electrical contact. C. A. Laise. 2,281,446; Apr. 28.
Electrical control system for presses. W. Ernst. 2,281,276; Apr. 28.
Electrical insulation. P. Nowak. 2,281,375; Apr. 28.
Electrolytic device. J. B. Brennan. 2,280,789; Apr. 28.
Electrolytic manufacture of potassium persulphate. M. Salleras. 2,281,090; Apr. 28.
Electrolytic reduction. K. R. Brown. 2,280,887; Apr. 28.
Electromagnet motor. G. G. Sheldon. 2,281,081; Apr. 28.
Electromagnetic movement repeating system. L. Petersen. 2,281,453; Apr. 28.
Electromagnetic switch. I. W. Cox. 2,280,893; Apr. 28.
Electron discharge device. H. G. Lubszynski. 2,280,922; Apr. 28.
Electron discharge device. A. L. Samuel. 2,280,980; Apr. 28.
Electron discharge tube, High frequency. E. Labin. 2,281,041; Apr. 28.
Elevator. W. W. Wilson. 2,281,128; Apr. 28.
Elevator, Automatic dump bucket. R. Adams. 2,280,941; Apr. 28.
Emulsions resulting from acidization of calcareous oil-bearing strata, Composition of matter and a process for preventing water-in-oil type. M. De Groote and B. Keiser. 2,281,419; Apr. 28.
Engine: *See*—
Internal combustion engine. Rotary engine.
Engine. W. Engstrom. 2,280,942; Apr. 28.
Engine starter gearing. T. B. Martin. 2,281,365; Apr. 28.
Envelope. W. Rodiger. 2,281,296; Apr. 28.
Envelope machine. A. Novick. 2,281,089; Apr. 28.
Ether nitriles, Unsaturated. H. A. Bruson. 2,280,790; Apr. 28.
Ethers of durohydroquinone and preparing same. E. Fernholz. 2,280,814; Apr. 28.
Ethers of ether alcohols, Cyanoalkyl. H. A. Bruson. 2,280,792; Apr. 28.
Ethers of monohydric alicyclic alcohols, Cyanoalkyl. H. A. Bruson. 2,280,791; Apr. 28.
Ethers of vitamin B_6 and preparing the same, Lower alkyl. J. C. Keresztesy and J. R. Stevens. 2,280,831; Apr. 28.
Exhaust structure. R. C. Huntoon. 2,280,953; Apr. 28.
Exhibition device. J. R. Connor. 2,281,024; Apr. 28.
Exhibitor, Broadloom. V. Borevitz. 2,281,137; Apr. 28.
Fastener: *See*—
Hook and clasp fastener. Wall board fastener.
Rotary operative fastener.
Fastener and ornamentation device. G. H. Montmartin. 2,281,108; Apr. 28.
Fastener-applying implement. J. F. Cavanagh. 2,281,232; Apr. 28.
Fastener-applying implement. A. H. Maynard. 2,281,198; Apr. 28.
Fastener installation with rotary operated fastener, Rotary operated. W. I. Jones. 2,281,443; Apr. 28.
Fastening device. G. A. Tinnerman. 2,281,056; Apr. 28.
Fats and oils, Method and apparatus for hydrolyzing. W. Davey and M. H. Ittner. 2,281,534; Apr. 28.
Feeding device. J. Hansen. 2,280,823; Apr. 28.
File follower plate. E. Bergman. 2,281,067; Apr. 28.
File, Scoring and grooving. B. Page. 2,281,007; Apr. 28.
Filling machine. J. M. Hothersall. 2,280,826; Apr. 28.
Filling machine and method. P. H. Allen. 2,280,776; Apr. 28.
Film. D. D. Lanning. 2,281,523; Apr. 28.
Film, Coated cellulosic. W. J. Jebens. 2,280,829; Apr. 28.
Filter: *See*—
Multiple cold milk filter.
Filter pads and the like, Making. J. C. Barnhardt. 2,281,017; Apr. 28.
Fishing reel. E. D. Clickner. 2,281,481; Apr. 28.
Fire shutter automatic control and film movement stabilizing device, Combined. A. J. Holman. 2,280,825; Apr. 28.
Flag, Illuminated. A. C. Freeman. 2,280,817; Apr. 28.
Float operated switch. J. O. Williams. 2,281,127; Apr. 28.
Floor conveyer for trucks. H. Stargardt. 2,281,120; Apr. 28.
Flow device for oil wells. A. Boynton. 2,280,788; Apr. 28.
Flow meter. H. A. Reed. 2,281,512; Apr. 28.
Flow regulator. V. T. Julin. 2,281,444; Apr. 28.
Fluid controlled brake. G. E. Denman. 2,280,897; Apr. 28.
Fluid foil. D. R. Davis. 2,281,272; Apr. 28.

Fluid meter. A. J. Granberg and T. A. McCoy. 2,281,490; Apr. 28.
Fluid pressure generating or actuated means. G. A. Wahlmark. 2,280,875; Apr. 28.
Fluid separation. J. Loumiet et Lavigne. 2,281,065; Apr. 28.
Folding machine. L. M. Kahn. 2,280,954–5; Apr. 28.
Folding machine. L. M. Kahn. 2,280,957; Apr. 28.
Folding machine timing mechanism. L. M. Kahn. 2,280,956; Apr. 28.
Foodstuffs, Freezing and preserving. J. C. Hovema. 2,280,827; Apr. 28.
Foot cover. O. B. Kuerschner. 2,281,160; Apr. 28.
Formaldehyde and volatile organic compounds, Separating mixtures of. A. C. Lansing. 2,281,243; Apr. 28.
Fountain, Antifreeze antipollution drinking. T. E. Bart, R. C. Gowdy and F. Zugelter. 2,280,780; Apr. 28.
Fountain, Antifreeze drinking. R. J. Murdock, T. E. Bart, F. Zugelter and J. W. Kinney, Jr. 2,280,838; Apr. 28.
Fountain, Antipollution drinking. F. Zugelter. 2,280,876; Apr. 28.
Frame: *See*—
Gill drawing frame.
Framing construction. F. V. Wilson, Jr., and J. W. Germond. 2,281,402; Apr. 28.
Frequency generator. L. Hammond. 2,281,495; Apr. 28.
Friction clutch. W. V. Thelander. 2,280,870; Apr. 28.
Fruit treating apparatus. R. L. Ewald and H. A. Skog. 2,280,813; Apr. 28.
Fuel control apparatus for internal combustion engines. J. F. Campbell. 2,281,411; Apr. 28.
Fuel loading and intermixing method. J. A. Hyson and J. H. Kerrick. 2,281,498; Apr. 28.
Fuel, Treatment of motor. F. W. Leffer. 2,281,361; Apr. 28.
Fuels, Mixing. J. A. Hyson and J. H. Kerrick. 2,281,497; Apr. 28.
Furnace grate mechanism. M. R. Olsen. 2,280,926; Apr. 28.
Fuse link. R. H. Earle. 2,281,029; Apr. 28.
Garden tool. J. C. Andersen. 2,280,778; Apr. 28.
Garment strap reinforcement. E. Lyford. 2,281,363; Apr. 28.
Gas and apparatus therefor, Manufacture of water. J. H. Smith. 2,281,210; Apr. 28.
Gas, Making carburetted water. H. G. Terzian. 2,280,869; Apr. 28.
Gaseous fluid treating apparatus. W. W. Paget. 2,281,168; Apr. 28.
Gasolines, Treatment of. J. C. Morrell. 2,281,369; Apr. 28.
Gate construction. R. Anderson. 2,281,220; Apr. 28.
Gathering machine. N. D. Mitchell. 2,280,963; Apr. 28.
Gear: *See*—
Aircraft landing gear. Draft gear.
Gear checking apparatus, Running. S. W. Martin. 2,281,197; Apr. 28.
Gear for steering road wheels of motor vehicles, Driving. O. D. North and P. G. Hugh. 2,281,451; Apr. 28.
Generator: *See*—
Frequency generator. Steam generator.
Gill drawing frame. W. Holdsworth. 2,281,240; Apr. 28.
Glass and analogous substances, Method and apparatus for manufacture and treatment of. E. V. Borel. 2,281,408; Apr. 28.
Glass, Making reflecting. A. D. Nash. 2,281,076; Apr. 28.
Grader. D. F. Baumgartner. 2,281,224; Apr. 28.
Granular material. E. H. Nichols. 2,281,167; Apr. 28.
Grapple. J. Breslav. 2,281,348; Apr. 28.
Gravity meter. D. H. Clewell. 2,281,001; Apr. 28.
Grinder plate, Food. W. H. Benton. 2,281,258; Apr. 28.
Grinding wheel. L. H. Milligan and R. H. Lombard. 2,281,526–6; Apr. 28.
Guard, Grille. C. M. Van Auken. 2,281,215; Apr. 28.
Hair curler. C. C. Holden. 2,281,291; Apr. 28.
Hair drier. D. C. Hudson. 2,281,354; Apr. 28.
Halogen-containing compounds, Production of unsaturated. W. Engs, H. P. A. Groll and A. W. Fairbairn. 2,281,096; Apr. 28.
Hanger: *See*—
Drying hanger.
Heat control. J. W. Wattles, 3rd. 2,281,399; Apr. 28.
Heat exchange device. P. F. Schoen. 2,281,206; Apr. 28.
Heat exchange device, Manufacturing. P. F. Schoen. 2,281,207; Apr. 28.
Heat exchangers, Making. C. Steenstrup. 2,281,299; Apr. 28.
Heat treating apparatus, Induction. H. E. Somes. 2,281,297–8; Apr. 28.
Heat treating apparatus, Induction. H. E. Somes. 2,281,331; Apr. 28.
Heat treating apparatus, Progressive. H. E. Somes. 2,281,333; Apr. 28.
Heat treatment. H. E. Somes. 2,281,334; Apr. 28.
Heater: *See*—
Room heater.
Heating, Induction. H. E. Somes. 2,281,335; Apr. 28.
Heating system. H. J. De N. McCollum. 2,281,107; Apr. 28.
Heating unit and making same, High temperature. R. Reichmann. 2,280,977; Apr. 28.
Hectograph composition and blanket and preparing same. J. Bjorksten and W. J. Champion. 2,281,261; Apr. 28.
Heel, Composition shoe. C. I. Simon. 2,281,390; Apr. 28.
Hemmer attachment for sewing machine. J. P. Enos. 2,281,275; Apr. 28.
High pressure regulating control valve. N. A. Christensen. 2,281,138; Apr. 28.
High temperature valve. S. J. Nordstrom. 2,280,925; Apr. 28.
Highway signal. O. H. Hershman. 2,280,951; Apr. 28.
Hinge. W. J. Keene. 2,281,158; Apr. 28.
Hinge mechanism. A. Barnsteiner and E. H. Lockwood. 2,281,018; Apr. 28.
Holder: *See*—
Bottle holder. Strip holder.
Ice cream cone holder. Tool holder.
Picture holder.
Holder for ears of corn. T. H. Jenkins. 2,281,501; Apr. 28.
Holder for toilet paper. W. Galena. 2,281,032; Apr. 28.
Hook and clasp fastener, Combined. E. C. Granger. 2,281,151; Apr. 28.
Horn. L. V. Grover. 2,281,539; Apr. 28.
Hose coupling, Detachable. I. Cowles. 2,280,892; Apr. 28.
Hydraulic motor. J. A. Muller. 2,281,372; Apr. 28.
Hydrocarbon conversion. F. G. Straka. 2,281,338; Apr. 28.
Hydrocarbons, Alkylating. D. H. Putney. 2,281,248; Apr. 28.
Hydrocarbons, Treatment of. C. G. Gerhold. 2,281,282; Apr. 28.
Hydrocarbons, Treatment of. W. W. Johnstone and W. L. Benedict. 2,281,356; Apr. 28.
Hydrochloride, Age resistant rubber. A. Hershberger. 2,281,437; Apr. 28.
Hydrochloride composition, Staple rubber. A. Hershberger. 2,281,436; Apr. 28.
Hydrogenation of invertible saccharides. J. T. Power. 2,280,975; Apr. 28.
Hydrohalides stabilized with aminomethyl ureas, Rubber. W. J. Burke and F. T. Peters. 2,281,410; Apr. 28.
Hydrotherapy circulator. W. Rocke. 2,280,979; Apr. 28.
Ice cream cone dispenser. J. Balton. 2,281,134; Apr. 28.
Ice cream cone holder. C. Beverlin. 2,281,136; Apr. 28.
Illumination device. W. C. Eddy. 2,280,901; Apr. 28.
Impulse transmitting device. H. Sengebusch. 2,281,116; Apr. 28.
Incubator. J. I. Taggart. 2,281,339; Apr. 28.
Indicator: *See*—
Leak indicator.
Inspection scheme. F. H. Gulliksen. 2,280,948; Apr. 28.
Insulator and producing conducting coating thereon. S. L. Santomieri. 2,281,173; Apr. 28.
Internal combustion engine. C. F. G. Kjellberg. 2,281,506; Apr. 28.
Internal combustion engine. F. Nallinger. 2,280,839; Apr. 28.
Internal combustion engine. B. W. Westcott. 2,281,124; Apr. 28.
Iron and product thereof, Manufacturing chilled cast. O. Smalley. 2,281,460; Apr. 28.
Iron, Production of rustless. W. B. Arness. 2,281,179; Apr. 28.
Ironing board. I. P. Fair. 2,281,030; Apr. 28.
Jack: *See*—
Motor vehicle jack. Scaffold jack.
Jar closure. D. W. Gunn. 2,281,433; Apr. 28.
Jig. O. R. Strawn. 2,281,530; Apr. 28.
Joint: *See*—
Universal joint.
Joint construction. W. A. Flumerfelt. 2,281,097; Apr. 28.
Kerf-cutting mining machine. T. E. Pray. 2,281,382; Apr. 28.
Knife sharpening mechanism for cutting machines. F. J. and F. G. Clark. 2,281,023; Apr. 28.
Knotter. F. W. Higgins. 2,281,290; Apr. 28.
Labeling apparatus. G. W. von Hofe. 2,281,397; Apr. 28.
Laminated articles, Manufacturing. B. J. Dennison. 2,281,027; Apr. 28.
Laminated material, Preparing. D. E. Edgar. 2,281,483; Apr. 28.
Lamp retaining device, Tubular. S. B. Sanford. 2,281,113; Apr. 28.
Leak indicator. G. Wiemer. 2,281,125; Apr. 28.
Lever, Jointed hand brake. D. B. Dickerson. 2,281,143; Apr. 28.
Lever, Nondrag brake. H. S. Jandus and H. Buchanan. 2,281,155; Apr. 28.
Lifter: *See*—
Pan lifter.
Lighting fixture. A. L. Arenberg. 2,280,881; Apr. 28.
Lighting fixture, Fluorescent. D. J. Biller. 2,281,346; Apr. 28.

Liquid-congealing apparatus. J. N. Saler. 2,281,080; Apr. 28.
Liquid lifting device. H. M. Fayman. 2,281,146; Apr. 28.
Liquids without the use of heat or chemicals, Sterilization of. H. S. Ogden. 2,280,841; Apr. 28.
Load carrying and erecting implement. R. G. Le Tourneau. 2,281,507; Apr. 28.
Lock. R. B. McFarlane. 2,281,317; Apr. 28.
Lock mechanism for elevator landing doors. J. W. Dodd. 2,280,805; Apr. 28.
Locking pin warning device, Wing. G. D. Evans. 2,280,809; Apr. 28.
Low-starting-current motor. L. C. Packer. 2,280,971; Apr. 28.
Lubricant for vacuum service, Bearing. P. H. Brace. 2,280,886; Apr. 28.
Lubricating device. H. R. Welby. 2,281,400; Apr. 28.
Lubricating means. W. H. Hazard. 2,280,910; Apr. 28.
Lubrication and cooling of antifriction bearings. E. O. Mueller. 2,280,965; Apr. 28.
Luggage case. H. R. Schwab. 2,281,114; Apr. 28.
Luminescent screen. C. J. Calbick and J. B. Johnson. 2,280,890; Apr. 28.
Luminescent screen. H. W. Weinhart. 2,280,939; Apr. 28.
Machine for combining dissimilar articles. W. Roberts. 2,281,011; Apr. 28.
Machine and method for packing commodities. H. F. Waters. 2,281,187; Apr. 28.
Machine for making separable fasteners. N. J. Poux. 2,281,008; Apr. 28.
Magnesia, refractory. H. H. Chesny. 2,281,477; Apr. 28.
Magnesite and the like magnesium ores, Flotation of. A. W. Fahrenwald. 2,280,905; Apr. 28.
Magnetic tension device. H. H. Raymond. 2,281,204; Apr. 28.
Mandrel, Contracting. J. G. O'Neil and L. G. Zesbaugh. 2,280,970; Apr. 28.
Manifold vent control. W. R. Hearn, G. J. Snook, and A. J. Challeen. 2,281,287; Apr. 28.
Marine life saving equipment. R. S. Chipchase. 2,281,233; Apr. 28.
Marker, Skirt. S. Esecson. 2,281,425; Apr. 28.
Marking device for navigating instruments. R. H. Page. 2,280,844; Apr. 28.
Mask, Respiratory. C. S. Clarke. 2,281,181; Apr. 28.
Material-handling apparatus. R. A. Foresman. 2,280,944; Apr. 28.
Material sizing mechanism. O. W. Steele. 2,281,174; Apr. 28.
Materials, Coating. W. C. Toland and E. Bassist. 2,280,986; Apr. 28.
Mattress and the like and producing the same. R. W. Marquardt. 2,281,104; Apr. 28.
Measuring instrument, Electrical. R. T. Wright. 2,281,470; Apr. 28.
Meat and vegetable cooling device. T. Schadegg. 2,281,458; Apr. 28.
Mechanism for forming covers on the trays of telescopic boxes. W. C. Nicodemus and H. D. Brown. 2,281,005; Apr. 28.
Mechanism for the manufacture of comfortables, quilts, and the like. J. R. Johnson. 2,281,308; Apr. 28.
Metal, Altering the composition of molten. M. J. Udy. 2,280,872; Apr. 28.
Metal negatives of models, Production of spray. M. Stössel. 2,280,865; Apr. 28.
Metal objects, Fabrication of laminated. A. E. Schuh. 2,280,981; Apr. 28.
Metallurgy. M. J. Udy. 2,281,216; Apr. 28.
Metals and flux composition therefor, Heating and melting precious. H. R. Berger. 2,281,528; Apr. 28.
Metals, Treatment of cast. A. B. Kinzel. 2,280,833; Apr. 28.
Meter: *See*—
Flow meter. Gravity meter.
Fluid meter.
Meter reading device. E. C. Mirk. 2,280,775; Apr. 28.
Methane, Chlorination of. P. F. Pie, Jr. 2,280,928; Apr. 28.
Methanol, Process for synthesizing. R. L. Brown. 2,281,228; Apr. 28.
Microscope, Electron. S. Ramol. 2,281,325; Apr. 28.
Milling attachment, Full universal all-speed. K. D. Hubbard. 2,281,353; Apr. 28.
Mills, Control system for rolling. G. E. Stoltz. 2,281,083; Apr. 28.
Mineral oil composition, Stabilized. E. W. Fuller. 2,281,520; Apr. 28.
Mirror, Rear view. E. C. and H. J. Clark. 2,281,234; Apr. 28.
Modulation. L. Brück. 2,281,020; Apr. 28.
Modulation system. R. Hofer. 2,281,069; Apr. 28.
Moisture in granular and pulverulent substances, Process and apparatus for controlling. M. Chopin. 2,281,182; Apr. 28.
Mold. M. Stössel. 2,280,864; Apr. 28.
Mold for concrete blocks. T. D. Abercrombie. 2,281,133; Apr. 28.
Molds, Producing. P. A. Bleakley. 2,281,225; Apr. 28.
Moment distributing bearing. A. F. MacDonald. 2,281,364; Apr. 28.
Motor: *See*—
Electromagnetic motor. Low-starting-current motor.
Hydraulic motor.
Motor control, Electric. L. W. Buchanan. 2,280,888; Apr. 28.
Motor control system. W. R. Wickerham and J. E. Borland. 2,280,991; Apr. 28.
Motor vehicle jack. C. B. Chaffee and S. R. Melton. 2,281,413; Apr. 28.
Motors, Method and connection for starting alternating current motors. H. Trassl. 2,280,987; Apr. 28.
Mounting: *See*—
Ophthalmic mounting.
Mounting for protective discharge devices. C. L. Jones. 2,280,917; Apr. 28.
Mud dispersion. R. B. Booth. 2,280,994–5; Apr. 28.
Muff, Ear. V. R. Johnson. 2,281,357; Apr. 28.
Multiple cold milk filter. G. J. Polivka. 2,281,454; Apr. 28.
Nail file. M. F. Smith. 2,281,462; Apr. 28.
Nails, Making weatherproof. R. B. Dickson. 2,281,028; Apr. 28.
Naphthequinone derivatives, Synthetic. H. J. Almquist and A. A. Klose. 2,280,777; Apr. 28.
Needle threader. P. Christ. 2,281,180; Apr. 28.
Negative transconductance device. W. van B. Roberts. 2,280,978; Apr. 28.
Network distribution system. M. A. Bostwick. 2,280,885; Apr. 28.
Nitro alcohol. A. G. Susie. 2,281,253; Apr. 28.
Noise limiting circuits. C. Travis. 2,281,395; Apr. 28.
Nonmetallic sheath cable. W. C. Robinson and R. W. E. Moore. 2,281,111; Apr. 28.
Nozzle construction. G. E. Bullock. 2,281,229; Apr. 28.
Number displaying device. J. W. Bryce. 2,281,350; Apr. 28.
Nut. O. D. Gray. 2,280,821; Apr. 28.
Obstructions in wells, Determining the location of. C. P. Walker. 2,281,301; Apr. 28.
Oil composition, Lubricating. C. E. Wilson. 2,281,401; Apr. 28.
Oil, Stabilized lubricating. E. W. Fuller. 2,281,521; Apr. 28.
Oils, Conversion of hydrocarbon. F. W. Leffer. 2,281,362; Apr. 28.
Oils, Sweetening hydrocarbon. C. M. Blair, Jr. 2,281,347; Apr. 28.
Oils, Treatment of hydrocarbon. J. D. Seguy. 2,281,388; Apr. 28.
Ophthalmic mounting. O. E. Wolff. 2,281,129; Apr. 28.
Optical image reproducing system, Thermal. A. N. Goldsmith. 2,280,946; Apr. 28.
Ordnance. R. A. Kaiser. 2,281,502; Apr. 28.
Ordnance mount. A. P. de Seversky. 2,280,804; Apr. 28.
Ornamental trim ring. G. A. Lyon. 2,281,529; Apr. 28.
Overshoe. F. F. Olson and L. H. L'Hollier. 2,281,321; Apr. 28.
Oxy-esters of alpha-beta acids and unsaturated alcohols. B. E. Sorenson. 2,281,394; Apr. 28.
Packages of yarns and similar textile materials, Production and treatment of. H. Dreyfus. 2,280,900; Apr. 28.
Packaging. A. B. Erekson. 2,280,904; Apr. 28.
Packing. F. C. Jacobs. 2,281,195; Apr. 28.
Padlock, Rap-proof. R. C. Nelson. 2,281,088; Apr. 28.
Pan lifter. A. F. Weise. 2,281,015; Apr. 28.
Paper bag, Multi-ply. W. J. Gelmer. 2,280,819; Apr. 28.
Paper coating device. W. F. Thiele and H. B. Richmond. 2,281,340; Apr. 28.
Paper, Electrolytic recording. P. Talmey. 2,281,013; Apr. 28.
Paper feed mechanism. H. P. Mixer. 2,280,964; Apr. 28.
Paving composition and preparation of same. W. L. Kirkland. 2,281,505; Apr. 28.
Pedal, Accelerator. J. F. Sladky. 2,281,117; Apr. 28.
Pencil composition. M. L. Weiser. 2,280,988; Apr. 28.
Pesticidal composition. H. B. Hass. 2,281,239; Apr. 28.
Phonograph delivery mechanism. M. Finkel and W. P. Schmid. 2,281,487; Apr. 28.
Phosphates, Making alkali metal. G. R. Pole. 2,280,848; Apr. 28.
Photographs, Producing color. B. Gaspar. 2,281,281; Apr. 28.
Photography, Color. A. L. McCormick, C. C. Smith and W. T. Crespinal. 2,281,075; Apr. 28.
Photoplays, Producing animated. W. E. Garity. 2,281,033; Apr. 28.
Pianos, Repeat action for grand. C. Schulze. 2,280,982; Apr. 28.
Picture holder. A. Smith and A. Banca. 2,281,054; Apr. 28.
Picture, Photographic subtractive multicolor. J. Eggert and W. Schultze. 2,281,273; Apr. 28.
Picture projector, Motion. A. Shapiro. 2,281,328; Apr. 28.
Pigments comprising rutile titanium dioxide, Preparation of. S. S. Cole and W. K. Nelson. 2,280,795; Apr. 28.

Pilot wire system with means for neutralizing induced voltages. E. L. Harder. 2,280,950; Apr. 28.
Pipe: *See*—
Threadless drill pipe.
Pipe fitting. V. A. Hoffmann. 2,280,952; Apr. 28.
Pipe fitting. F. J. Wilkinson. 2,281,178; Apr. 28.
Pipe plug. H. S. Duey. 2,281,145; Apr. 28.
Piston ring. M. O. Teetor. 2,281,123; Apr. 28.
Piston ring and making same. W. H. Farr. 2,281,426; Apr. 28.
Piston, Ringed shaft-mounted. B. Pratt and C. J. Smith. 2,281,381; Apr. 28.
Pitch propeller, Variable. H. H. Roby. 2,281,456; Apr. 28.
Pivotal means and method of assembly. W. C. Drews. 2,281,535; Apr. 28.
Plant growing and feeding pot. R. B. Farnham. 2,281,068; Apr. 28.
Plow, Rotary. M. H. Pitcher. 2,280,846; Apr. 28.
Plow tail wheel. C. E. Kenner. 2,281,359; Apr. 28.
Plug: *See*—
Pipe plug. Spark plug.
Plug and drillable whipstock, Combined bridge. J. M. Clarke. 2,281,414; Apr. 28.
Plug assembling machine, Attachment. N. Chirelstein. 2,281,479; Apr. 28.
Plumbing fixture, Combination. J. W. McGarry and E. A. Pope. 2,281,199; Apr. 28.
Polarizers, Manufacturing light. E. H. Land. 2,281,100; Apr. 28.
Portfolio. W. R. Buxton. 2,280,889; Apr. 28.
Power cut out, Automatic mechanical. H. P. Grohn. 2,281,432; Apr. 28.
Preserved product. F. H. Reichel and R. T. K. Cornwell. 2,281,513; Apr. 28.
Press: *See*—
Printing press.
Press with ejector ram operated without auxiliary pressure source. P. C. Pocock. 2,280,849; Apr. 28.
Presses for paper making machines. B. A. Malkin. 2,281,294; Apr. 28.
Priming means for self-priming pumps. A. C. Stratton. 2,281,175; Apr. 28.
Printing plate support. W. C. Toland and E. Bassist. 2,280,985; Apr. 28.
Printing press. W. W. Davidson. 2,280,799; Apr. 28.
Protective device. T. P. Hollingsworth. 2,281,152; Apr. 28.
Protective device for electrical apparatus. M. G. Leonard. 2,281,073–4; Apr. 28.
Protector: *See*—
Strop protector.
Pump. J. Outin. 2,281,045; Apr. 28.
Pumping apparatus, Portable. E. W. Davis. 2,281,142; Apr. 28.
Pumping equipment. W. H. Reeves. 2,280,930; Apr. 28.
Pumps, Fuel and like. G. Amery. 2,281,302; Apr. 28.
Purification. E. T. Ellis. 2,280,812; Apr. 28.
Rack: *See*—
Display rack.
Radiator. J. Hromadko. 2,281,154; Apr. 28.
Radiator, Ultra short wave. W. Dellenbach, E. Wilckens, and W. Pupp. 2,281,274; Apr. 28.
Radio receiver. E. C. Freeland. 2,281,488; Apr. 28.
Radio relay repeater. N. E. Lindenblad. 2,281,196; Apr. 28.
Radio relaying system, Frequency modulated. C. W. Hansell. 2,280,822; Apr. 28.
Radio transmission and reception. W. W. Hansen and R. H. Varian. 2,280,824; Apr. 28.
Radio tuning apparatus. H. Z. Benton and L. P. Morris. 2,281,093; Apr. 28.
Raft, Loading. F. J. Baum and E. M. Wilson. 2,281,471; Apr. 28.
Railroad ballast dresser. W. E. Haist and P. F. Thomas. 2,281,491–2. Apr. 28.
Railway brake. W. H. Baselt. 2,280,781; Apr. 28.
Railway brake. W. H. Baselt and W. A. Helsten. 2,280,782; Apr. 28.
Railway car. P. Parke and N. A. Thunstrom. 2,281,245; Apr. 28.
Range assembly. E. E. Sutherland and L. E. Lown. 2,281,084; Apr. 28.
Razor and blade, Safety. R. De S. Nava 2,281,166; Apr. 28.
Razor, Magazine safety. J. Muros. 2,281,201; Apr. 28.
Reel: *See*—
Fishing reel.
Reflection of light from surfaces, and articles so produced, Reducing. C. H. Cartwright and A. F. Turner. 2,281,475; Apr. 28.
Refrigerating apparatus. J. R. Rollins. 2,281,079; Apr. 28.
Refrigeration unit. P. E. Walley. 2,281,398; Apr. 28.
Refrigerator. D. M. Grant. 2,281,430; Apr. 28.
Refrigerator, Portable electric. L. Wurster. 2,281,404; Apr. 28.
Regulator: *See*—
Consistency regulator. Flow regulator.
Regulating device for fluid supply systems, Pressure. P. W. Thornhill and J. K. Simpson. 2,280,937; Apr. 28.
Regulating system. R. A. Geiselman. 2,281,034; Apr. 28.
Relay, Light. D. Gabor. 2,281,280; Apr. 28.
Relay selecting circuit. E. L. Vibbard. 2,281,396; Apr. 28.
Repellent containing nitrils, Insect. A. W. Ralston and J. P. Barrett. 2,280,850; Apr. 28.
Resin molding materials containing fillers, Preparing synthetic. F. Seebach. 2,280,934; Apr. 28.
Rest, Foot and leg. G. R. Smith. 2,281,119; Apr. 28.
Ring: *See*—
Ornamental trim ring. Piston ring.
Road shoulder maintainer. J. H. Kerber. 2,281,360; Apr. 28.
Rod: *See*—
Connecting rod.
Room heater. H. J. De N. McCollum. 2,281,106; Apr. 28.
Rope structure. J. A. Hetzel. 2,281,036; Apr. 28.
Rosin and producing the same, Pale. R. E. Price and I. E. Knapp. 2,281,078; Apr. 28.
Rotary engine. H. G. Nelson. 2,280,967; Apr. 28.
Rotary operative fastener. L. A. Powell. 2,281,455; Apr. 28.
Rotary releasing fishing tool. D. U. Shaffer. 2,281,389; Apr. 28.
Rotor brake. R. L. Smirl. 2,281,118; Apr. 28.
Rotor, Grating. J. C. Bruno. 2,281,264; Apr. 28.
Route control system. G. L. Caffle. 2,280,891; Apr. 28.
Rubber hydrochloride and like products, Producing. H. F. Irving and F. E. Williams. 2,281,355; Apr. 28.
Rubber or similar materials, Baking or vulcanizing India. R. Dufour and H. A. Leduc. 2,280,771; Apr. 28.
Rubber, Recovery of. M. J. Stacom. 2,281,336; Apr. 28.
Safety switch. J. W. Samzelius. 2,281,052; Apr. 28.
Safety valve. D. A. Darby. 2,281,417; Apr. 28.
Salt- and lime-cut mud, Treatment of. R. B. Booth. 2,280,996–7; Apr. 28.
Saw, Dado, gain and miter. J. P. Weddle and J. W. Meyers. 2,281,469; Apr. 28.
Scaffold jack. E. L. Jones. 2,281,039; Apr. 28.
Scarificator. W. S. Finnell. 2,281,278; Apr. 28.
Scoop for boats, Water. H. Scott-Paine. 2,281,459; Apr. 28.
Screen: *See*—
Luminescent screen. Well screen.
Seal and cover retainer, Combined journal box. C. M. Hannaford. 2,281,352; Apr. 28.
Seal assembly, Oil pump. J. Kanuch and E. F. Wichorek. 2,281,157; Apr. 28.
Seal, Bearing. H. R. Reynolds and L. A. Hilles. 2,281,010; Apr. 28.
Seal, Oil. J. W. Saffold. 2,280,857; Apr. 28.
Seat: *See*—
Adjustable seat.
Secondary service box. M. Ruggieri. 2,281,515; Apr. 28.
Self-unloading toy vehicle. R. G. Smith. 2,281,393; Apr. 28.
Separator: *See*—
Vapor separator.
Sextant, Panoramic. C. J. Crane and S. M. Burka. 2,280,798; Apr. 28.
Shackle. T. S. Glover. 2,280,909; Apr. 28.
Shade construction. T. J. Cavanaugh. 2,281,022; Apr. 28.
Shade-pull attachment. J. O'Malley. 2,280,969; Apr. 28.
Sharpener, Mower. W. V. Smith. 2,281,055; Apr. 28.
Shaving device. J. G. Arye. 2,281,434; Apr. 28.
Shaving machine, Rotary. T. S. Casner. 2,281,531; Apr. 28.
Sheet metal clamp. H. A. Duncan. 2,281,421. Apr. 28.
Shield, Tuyère, T. H. Kennedy. 2,281,310; Apr. 28.
Short wave amplifier circuit, Neutralized. E. Willwacher and H. Gollub. 2,281,345; Apr. 28.
Signal: *See*—
Highway signal. Traffic signal.
Signal for motor vehicles. C. Ringwald. 2,281,171; Apr. 28.
Signaling, Electric. N. I. Hall. 2,280,949; Apr. 28.
Signals, Method and apparatus for transmission of. R. L. Barrish and G. Barrish. 2,281,405; Apr. 28.
Signboard construction, Advertising. D. V. Walker. 2,281,343; Apr. 28.
Sinew extracting device. L. Jacob. 2,281,442; Apr. 28.
Skids for railway vehicles, Set-off. I. N. Eustis. 2,281,066; Apr. 28.
Slider for slide fasteners, Automatic lock. A. B. Newhall. 2,280,968; Apr. 28.
Slider for slide fasteners, Lock. N. J. Poux. 2,281,009; Apr. 28.
Snowplow. W. Hewitt. 2,281,289; Apr. 28.
Sodium phenolate from sodium sulphite, Separation of. A. T. Fellows. 2,281,485; Apr. 28.
Soldering iron cleaning and supporting stand. W. A. Kuehl. 2,281,162; Apr. 28.
Solvent recovery from smokeless powder. G. E. Desetti, W. A. Dew, and B. H. Mackey. 2,280,803; Apr. 28.
Solvent-resistant ethyl cellulose film. T. A. Kauppi. 2,281,445; Apr. 28.
Spark plug. T. G. McDougal. 2,280,962; Apr. 28.
Spark plug. G. Parkin. 2,281,511; Apr. 28.
Spark-plug construction. G. M. Paulson. 2,280,972; Apr. 28.
Speed drive, Adjustable. R. S. Elberty, Jr. 2,281,518; Apr. 28.
Speed driving means, Variable. E. T. Ross. 2,281,384; Apr. 28.

Speed regulator for internal-combustion engines. G. W. Baierlein. 2,281,222; Apr. 28.
Speed transmission, Variable. W. L. Pollard. 2,281,077; Apr. 28.
Spray head, Dishwashing. F. H. Ellinger. 2,281,484; Apr. 28.
Spray head, Shower bath. I. Herzbrun and C. F. Schultis. 2,281,499; Apr. 28.
Sprayer. F. H. Maloney. 2,281,447; Apr. 28.
Spraying machine, Automatic. H. J. Pattison. 2,281,169; Apr. 28
Spreader, Material. C. U. Stoltzfus. 2,281,212; Apr. 28.
Spring for cushioned seats of upholstered furniture, Wire. W. H. Neely. 2,280,840; Apr. 28.
Spring structure. H. Hopkes. 2,280,912; Apr. 28.
Stand: *See*—
Soldering iron cleaning and supporting stand.
Stapling machine anvil. W. G. Pankonin. 2,281,322; Apr. 28.
Statistical machine. J. M. McDonnell. 2,280,923–4; Apr. 28.
Steam generator. L. H. Cushman. 2,280,894; Apr. 28.
Steel, Phosphorus titanium. G. F. Comstock. 2,280,796; Apr. 28.
Step-up mechanism. C. T. Breitenstein. 2,281,262; Apr. 28.
Stereoscopic print with reflecting backing, Dichroic. E. H. Land. 2,281,101; Apr. 28.
Sterol content of tall oil, Concentrating the. A. F. Oliver and R. C. Palmer. 2,280,843; Apr. 28.
Sterols, Obtaining. E. Fernholz. 2,280,815; Apr. 28.
Stoker, Locomotive. C. J. Surdy. 2,281,122; Apr. 28.
Stool for ingot molds. H. Felsing. 2,280,906; Apr. 28.
Stop motion. C. B. White. 2,281,188; Apr. 28.
Storage and distribution system, Liquid. W. von Puhl, Jr. 2,281,057; Apr. 28.
Storage cabinet. E. M. Fritz. 2,281,489; Apr. 28.
Strap stretching device. C. G. Heslet and E. C. Layman. 2,281,438; Apr. 28.
Strip holder. P. S. Eckman. 2,281,236; Apr. 28.
Strop protector. B. G. and F. D. Barron. 2,281,223; Apr. 28.
Suction cleaner. S. L. Pool. 2,281,048; Apr. 28.
Sugar from molasses, Recovery of. R. H. Cottrell and V. Jensen. 2,281,025; Apr. 28.
Support: *See*—
Printing plate support.
Supporter, Garment. D. and E. R. Visconti. 2,281,342; Apr. 28.
Surfaces of light-transmitting articles, and the treated products, Treating. C. H. Cartwright and A. F. Turner. 2,281,474; Apr. 28.
Surgical package, Sterile. J. H. Brewer. 2,281,473; Apr. 28.
Switch: *See*—
Electromagnetic switch. Safety switch.
Float operated switch.
Switch. J. Kurilla. 2,281,314; Apr. 28.
Switch. E. K. Read. 2,280,976; Apr. 28.
Switch for automatic telephone plants. G. A. Betulander. 2,281,472; Apr. 28.
Switching apparatus, Electrical. K. A. Oplinger. 2,281,044; Apr. 28.
Swivel connection. W. Brauer. 2,281,019; Apr. 28.
Swivel connection. C. E. Stevens. 2,281,082; Apr. 28.
Tab for slide fastener sliders, Detachable pull. A. E. Carlile. 2,280,999; Apr. 28.
Tack dispensing device, Thumb. R. Schwarzkopf. 2,281,208; Apr. 28.
Tap and switch mechanism. R. E. Sears. 2,281,387; Apr. 28.
Tapping tool. L. J. Rodgers. 2,281,172; Apr. 28.
Telephone econtrol circuits. H. W. Augustadt. 2,281,255; Apr. 28.
Telephone system. J. W. Brubaker. 2,281,062; Apr. 28.
Telephone system. A. A. Lundstrom. 2,281,508; Apr. 28.
Television system. V. K. Zworykin. 2,280,877; Apr. 28.
Temperature compensating means. K. D. Smith. 2,281,461; Apr. 28.
Temperature protection for industrial motors. F. J. Johns. 2,280,914; Apr. 28.
Tensioner, Thread. W. J. Freer. 2,281,427; Apr. 28.
Tetrachlorethylene, Purification of. O. W. Cass. 2,280,794; Apr. 28.
Textile printing apparatus. S. B. Stafford. 2,281,211; Apr. 28.
Textile product. G. Schneider. 2,280,933; Apr. 28.
Thermionic relay circuit. R. M. Kalb. 2,281,040; Apr. 28.
Thermostat. W. A. Saul. 2,281,517; Apr. 28.
Thermostat, Quick action. R. F. Butler and O. D. Westerberg. 2,281,021; Apr. 28.
Thermostatic control. M. A. Schwartz. 2,281,386; Apr. 28.
Thimble thread cutter. N. V. Stratton. 2,281,391; Apr. 28.
Threading machine. A. B. Nesbitt and S. Webb. 2,281,374; Apr. 28.
Threadless drill pipe. A. Boynton. 2,280,786; Apr. 28.
Threads, Production of rubber. J. Bach. 2,280,883; Apr. 28.
Timing device. M. H. Rhodes. 2,281,514; Apr. 28.
Tire compressor. T. G. Casey. 2,281,476; Apr. 28.
Toaster. F. J. Cullomer. 2,281,271; Apr. 28.
Toaster operating mechanism, Electric. A. D. Keene and T. S. Krebs. 2,281,241; Apr. 28.
Toilet seal mechanism. H. S. Campbell. 2,281,265; Apr. 28.
Tool: *See*—
Garden tool. Tapping tool.
Rotary releasing fishing tool. Well testing tool.
Tool. E. L. Johnson. 2,281,307; Apr. 28.
Tool drive. J. E. Waldo. 2,281,300; Apr. 28.
Tool holder. G. H. Cote. 2,281,416; Apr. 28.
Tool machine, Rotary. E. R. Motch, Jr., and J. G. Moohl. 2,281,450; Apr. 28.
Track circuit apparatus, Railway. E. M. Allen. 2,280,878; Apr. 28.
Traffic controlling apparatus, Railway. E. E. Parrill. 2,281,046; Apr. 28.
Traffic signal. L. A. Clark. 2,281,139; Apr. 28.
Transformer distributing system. H. E. Somes. 2,280,861; Apr. 28.
Transmission operating mechanism. V. W. Kliesrath and R. P. Breese. 2,281,159; Apr. 28.
Transmission system, Repeatered. E. I. Green. 2,281,035; Apr. 28.
Transporting and dumping device. G. R. Dempster. 2,281,183; Apr. 28.
Tray loading machine. W. E. Rooney. 2,280,854; Apr. 28.
Trousers. A. Blankenhorn. 2,281,086; Apr. 28.
Truck, Industrial. M. Lehmann and P. R. Guerin. 2,281,004; Apr. 28.
Truck, Industrial. L. M. Sears. 2,281,012; Apr. 28.
Truss. T. E. Brooks. 2,281,409; Apr. 28.
Tube: *See*—
Electron discharge tube.
Turbidimeter. R. B. Barnes. 2,280,993; Apr. 28.
Turbo machine. K. J. Van Erp. 2,281,214; Apr. 28.
Typographical machine. J. W. Bittner. 2,281,259; Apr. 28.
Typewriting machine. B. J. Dowd and H. J. Hart. 2,280,806–8; Apr. 28.
Ultra short wave resonant circuit. H. O. Peterson. 2,281,247; Apr. 28.
Undervoltage mechanism for circuit breakers. L. W. Dyer and G. D. Gamel. 2,280,899; Apr. 28.
Unit, Multiple glazed. O. D. Englehart. 2,281,064; Apr. 28.
Universal joint. S. G. Wingquist. 2,281,403; Apr. 28.
Utensil, Eating. E. M. Chapman. 2,281,267; Apr. 28.
Valve: *See*—
Automatic intake and outlet valve. High temperature valve.
High pressure regulating control valve. Safety valve.
Valve circuits for the generation of saw tooth currents, Thermionic. E. L. C. White. 2,280,990; Apr. 28.
Valve for carburetors, Float. S. R. Willits. 2,281,126; Apr. 28.
Vapor separator. W. E. Haast. 2,281,283; Apr. 28.
Variable condenser. R. E. Franklin and E. D. Thorne. 2,281,147; Apr. 28.
Vapor phase cooling of fluid jacketed cylinders. J. H. Wallace. 2,281,091; Apr. 28.
Vehicle: *See*—
Self-unloading toy vehicle.
Vehicle wheel. H. J. Horn. 2,281,153; Apr. 28.
Vending machine. R. F. Eddy, E. W. Moeller, R. R. Wilcox, and A. F. Eddy. 2,280,810; Apr. 28.
Vending machine. R. F. Eddy, E. W. Moeller, R. R. Wilcox, and A. F. Eddy. 2,281,191; Apr. 28.
Venetian blind bracket. H. H. Nelson. 2,281,043; Apr. 28.
Ventilating apparatus. C. D. Nelson. 2,281,202; Apr. 28.
Vision device for vehicles, Rear. W. L. Lowman. 2,281,102; Apr. 28.
Voltage variation compensator. R. E. Schock. 2,281,205; Apr. 28.
Wall board fastener. E. C. Faber. 2,281,519; Apr. 28.
Washroom fixture, Combination. W. L. Morrison and R. E. Moore. 2,281,370; Apr. 28.
Water treatment process and material. E. L. Holmes, L. E. Holmes, and W. G. Prescott. 2,281,194; Apr. 28.
Wave translation. H. K. Krist. 2,281,312; Apr. 28.
Weight attachment for platform beam scales. C. M. Jeffers. 2,281,306; Apr. 28.
Welding. C. H. Jennings. 2,281,070; Apr. 28
Welding device, Arc. J. W. Dawson. 2,280,800; Apr. 28.
Welding equipment. H. T. Platz. 2,281,323; Apr. 28.
Well drilling. L. Ranney. 2,280,851; Apr. 28.
Well screen. C. E. Records. 2,281,326; Apr. 28.
Well testing tool. A. Boynton. 2,280,785; Apr. 28.
Wheel: *See*—
Grinding wheel. Vehicle wheel.
Plow tail-wheel.
Winch, Automatic mooring. W. Schaelchlin. 2,280,932; Apr. 28.

Winding machine. H. Philippi. 2,280,973; Apr. 28.
Window construction. P. E. Knudsen. 2,281,071; Apr. 28.
Window regulator mechanism, Vehicle. R. Raphaël. 2,281,383; Apr. 28.
Window, Variable density. W. H. Ryan. 2,281,112; Apr. 28.
Windrow harvester. R. L. Anderson and A. W. Oehler. 2,281,059; Apr. 28.
Wire drawing. L. A. Young. 2,281,132; Apr. 28.
Wire supporting clip. H. F. Stover. 2,280,983; Apr. 28.
Wireless receiver. J. A. van Lammeren. 2,281,468; Apr. 28.

CLASSIFICATION OF PATENTS

ISSUED APRIL 28, 1942

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

1— 49: 2,281,232
2,281,322
2— 2: Re. 22,084
9: 2,281,152
13: 2,281,129
19: 2,281,315
27: 2,281,533
97: 2,281,510
209: 2,281,357
237: 2,281,086
323: 2,281,363
4— 148: 2,281,199
180: 2,280,979
233: 2,281,265
252: 2,280,952
5— 2: 2,280,913
47: 2,281,085
66: 2,281,209
266: 2,280,912
356: 2,281,104
7— 14.5: 2,281,391
8— 155: 2,280,900
9— 22: 2,281,233
10— 86: 2,280,821
89: 2,281,374
2,281,416
155: 2,281,190
160: 2,281,028
13— 6: 2,281,408
26: 2,281,170
14— 16: 2,281,364
15— 36: 2,281,131
77: 2,281,256
93: 2,281,278
133: 2,281,367
134: 2,281,105
182: 2,281,412
258: 2,281,532
16— 179: 2,281,158
17— 11.3: 2,281,442
45: 2,281,449
18— 1: 2,281,008
53: 2,280,771
55: 2,281,227
19— 107: 2,280,911
109: 2,281,268
2,281,344
129: 2,281,240
20— 4: 2,281,402
5: 2,281,500
56.5: 2,281,064
2,281,071
91: 2,281,185
22— 139: 2,280,906
190: 2,280,864
2,280,865
2,280,866
213: 2,281,460
216: 2,280,833
23— 106: 2,280,848
143: 2,280,998
201: 2,281,477
272.6: 2,281,140
24— 73: 2,281,108
81: 2,281,522
84: 2,281,151
197: 2,280,921
205: 2,281,000
205.5: 2,280,968
2,280,999
2,281,009
221: 2,281,443
2,281,455
243: 2,281,342
25— 45: 2,281,133
28— 1: 2,280,933
29— 1.21: 2,281,213
70: 2,281,450
84: 2,281,478
29— 84: 2,281,479
148.2: 2,281,407
149.5: 2,281,246
2,281,332
156.6: 2,281,426
157.3: 2,281,207
189: 2,280,981
30— 40: 2,281,201
43: 2,280,836
2,281,434
2,281,531
66: 2,281,166
132: 2,281,189
32— 48: 2,280,927
33— 9: 2,281,425
203: 2,281,197
204: 2,280,797
226: 2,281,286
34— 21: 2,281,016
25: 2,280,803
19: 2,281,182
87: 2,281,370
100: 2,281,354
105: 2,281,079
153: 2,281,406
156: 2,281,496
191: 2,281,269
233: 2,281,184
35— 7: 2,281,024
24: 2,281,368
36— 7.3: 2,281,321
10: 2,281,160
34: 2,281,390
37— 43: 2,281,289
105: 2,281,491
2,281,492
155: 2,281,360
156: 2,281,224
38— 120: 2,281,030
40— 130: 2,280,817
2,280,951
2,281,343
134: 2,281,049
155: 2,280,907
156: 2,281,054
41— 10: 2,281,529
31.6: 2,281,261
41.5: 2,280,986
2,281,260
43— 39: 2,281,480
46— 214: 2,281,393
47— 1.2: 2,281,068
61: Pl.Pt.511
62: Pl.Pt.510
Pl.Pt.512
48— 82: 2,281,210
205: 2,280,869
49— 52: 2,281,007
54: 2,281,050
79: 2,281,076
51— 48: 2,281,055
170: 2,280,867
201: 2,281,428
204: 2,281,420
246: 2,281,023
268: 2,281,223
273: 2,281,313
303: 2,280,852
308: 2,281,525
2,281,526
53— 5: 2,281,271
54— 7: 2,280,853
56— 23: 2,281,059
57— 81: 2,281,188
144: 2,281,036
58— 26: 2,281,493
2,281,494
59— 86: 2,280,909
60— 35.6: 2,280,835
60— 52: 2,281,276
2,281,372
54: 2,281,161
54.6: 2,281,330
62— 4: 2,281,244
5: 2,280,961
37: 2,281,458
89: 2,281,398
2,281,430
108.5: 2,281,080
116: 2,281,404
175.5: 2,281,065
63— 15: 2,281,231
20: 2,281,130
64— 17: 2,281,403
65— 31: 2,281,380
66— 146: 2,281,427
67— 23: 2,281,279
68— 210: 2,281,031
70— 38: 2,281,088
72— 1: 2,280,832
16: 2,281,371
38: 2,281,200
40: 2,281,072
41: 2,281,121
42: 2,281,524
86: 2,281,092
101: 2,281,003
118: 2,281,519
73— 51: 2,281,163
2,281,324
2,281,418
215: 2,281,512
253: 2,281,490
74— 7: 2,281,365
10: 2,281,093
142: 2,281,262
189.5: 2,281,077
214: 2,281,277
230.17: Re.22,085
233: 2,281,148
293: 2,281,384
386: 2,281,451
411: 2,281,263
472: 2,281,285
513: 2,281,117
524: 2,281,143
531: 2,281,467
537: 2,281,155
568: 2,281,468
579: 2,281,098
2,281,349
75— 27: 2,280,872
2,280,873
2,281,216
65: 2,281,528
125: 2,280,796
127: 2,281,179
76— 104: 2,281,250
77— 6: 2,281,218
80— 31.1: 2,280,847
32: 2,281,063
2,281,083
60: 2,280,783
81— 53: 2,281,164
82— 4: 2,281,307
83— 6: 2,281,264
45: 2,281,329
91: 2,280,895
84— 239: 2,280,982
85— 5: 2,281,421
88— 1: 2,280,989
2,281,474
2,281,475
2.2: 2,280,798
14: 2,280,993
16: 2,281,033
16.2: 2,281,075
88— 17: 2,280,825
18.7: 2,281,328
29: 2,281,101
65: 2,281,112
70: 2,281,102
93: 2,281,234
89— 37.5: 2,280,804
2,281,502
90— 17: 2,281,353
59: 2,281,482
91— 39: 2,281,358
45: 2,281,169
55: 2,281,340
92— 14: 2,281,504
44: 2,281,293
49: 2,281,294
93— 3: 2,280,904
2,281,005
53: 2,280,773
62: 2,281,089
93: 2,281,011
95— 2: 2,281,149
2,281,273
2,281,281
89: 2,281,094
97— 41: 2,280,846
98— 33: 2,281,002
99— 68: 2,281,320
89: 2,281,217
138: 2,281,267
171: 2,281,513
192: 2,280,827
100— 48: 2,280,880
71: 2,280,849
101— 178: 2,281,211
217: 2,280,799
102— 4: 2,281,103
103— 113: 2,281,175
173: 2,280,875
220: 2,281,302
233: 2,280,788
236: 2,281,146
105— 162: 2,281,066
286: Re. 22,082
414: 2,281,245
106— 19: 2,280,988
171: 2,281,523
177: 2,280,863
281: 2,281,505
292: 2,280,795
107— 15: 2,280,834
110—105.5: 2,281,122
171: 2,280,944
112— 117: 2,281,308
141: 2,281,275
113— 109: 2,280,879
111: 2,281,162
118: 2,281,299
114— 185: 2,281,459
115— 34: 2,281,156
116— 52: 2,281,171
114: 2,281,125
124: 2,280,809
142: 2,281,539
117— 16: 2,281,100
18: 2,280,890
73: 2,280,829
100: 2,281,167
103: 2,281,173
119— 33: 2,280,779
37: 2,281,339
120— 29: 2,280,772
122— 187: 2,281,431
123— 11: 2,280,967
32: 2,280,839
70: 2,281,506
119: 2,281,124
2,281,509
123— 122: 2,280,942
124: 2,281,287
139: 2,281,045
148: 2,281,115
169: 2,280,855
2,280,962
2,280,972
2,281,511
174: 2,281,091
126— 110: 2,281,106
169: 2,280,926
194: 2,281,018
2,281,084
127— 47: 2,281,025
128— 102: 2,281,409
146: 2,281,181
297: 2,280,992
350: 2,280,915
129— 16: 2,281,463
26: 2,281,465
28: 2,281,464
29: 2,281,067
130— 6: 2,281,048
131— 36: 2,281,095
132— 41: 2,281,291
76.4: 2,281,462
137— 68: 2,281,444
69: 2,281,283
78: 2,280,820
2,280,876
2,281,057
104: 2,281,126
111: 2,280,787
153: 2,280,937
2,281,417
138— 37: 2,281,178
139— 212: 2,281,204
143— 87: 2,281,469
146— 33: 2,280,813
189: 2,281,258
148— 3: 2,281,225
12: 2,281,132
31: 2,281,219
150— 39: 2,280,889
151— 30: 2,281,056
152— 352: 2,281,359
154— 1: 2,281,017
2: 2,281,027
2,281,483
9: Re.22,080
46.5: 2,280,985
155— 14: 2,280,882
119: 2,281,341
158: 2,281,038
161: 2,281,037
169: 2,281,119
179: 2,280,840
156— 10: 2,281,022
17: 2,280,931
2,281,043
40: 2,280,969
157— 6: 2,281,476
158— 36.3: 2,281,053
164— 21: 2,281,439
38: 2,280,883
45: 2,281,422
71: 2,281,172
166— 5: 2,281,326
11: 2,280,785
167— 22: 2,280,850
2,281,239
27: 2,281,249
170— 163: 2,281,456
171— 95: 2,281,470
97: 2,280,950
119: 2,280,861
2,281,034
252: 2,280,965
314: 2,281,387
172— 36: 2,281,081
120: 2,280,974
179: 2,280,991
239: 2,280,914
2,281,518
279: 2,280,888
2,280,971
289: 2,280,987
173— 328: 2,281,113
2,281,186
174— 5: 2,281,366
59: 2,281,515
116: 2,281,111
125: 2,281,375
152: Re.22,086
175— 30: 2,280,917
41.5: 2,281,147
294: 2,280,884
2,280,885
2,280,898
2,280,899
2,280,945
315: 2,280,789
320: 2,281,040
363: 2,281,495
176— 122: Re.22,083
177— 311: 2,281,373
337: 2,281,350
351: 2,280,775
2,281,453
353: 2,281,396
380: 2,281,116
178— 7.2: 2,280,877
2,280,922
44: 2,281,035
2,281,247
2,281,312
179— 1.5: 2,281,405
4: 2,280,871
6.3: 2,281,062
8.5: 2,281,508
27.5: 2,281,472
170: 2,281,255
171: 2,280,822
2,281,238
2,281,345
171.5: 2,181,020
2,281,069
180— 9.2: 2,281,288
181— 0.5: 2,281,301
40: 2,280,953
184— 3: 2,281,400
11: 2,280,910
187— 31: 2,280,805
188— 78: 2,280,784
79.5: 2,281,150
90: 2,280,897
152: 2,281,538
153: 2,280,781
2,280,782
2,280,868
2,281,536
2,281,537
230: 2,281,535
189— 85: 2,281,109
190— 41: 2,281,114
192— .01: 2,281,159
3: 2,280,859
6: 2,281,099
12: 2,281,118
43.1: 2,281,300
61: 2,281,292
63: 2,281,141
68: 2,280,870
150: 2,281,432
194— 15: 2,281,435
72: 2,281,514
195— 142: 2,281,457

196— 8: 2,281,282
10: 2,281,248
13: 2,281,257
30: 2,281,347
2,281,356
48: 2,281,362
50: 2,281,361
2,281,369
2,281,388
52: 2,281,338
2,281,527
197— 186: 2,280,806
2,280,807
2,280,808
198— 33: 2,281,006
145: 2,280,941
168: 2,281,026
199— 33: 2,281,259
200— 8: 2,290,976
11: 2,290,956
2,290,957
32: 2,281,139
50: 2,281,052
51: 2,281,221
52: 2,281,314
54: 2,281,193
82: 2,281,337
83: 2,280,959
84: 2,281,127
98: 2,280,893
113: 2,280,960
120: 2,281,073
2,281,074
135: 2,281,029
2,281,266
138: 2,281,386
2,281,517
139: 2,281,021
146: 2,281,385
148: 2,281,042
152: 2,281,044
166: 2,281,446
201— 67: 2,280,977
202— 57: 2,280,794
60: 2,281,311
67: 2,281,243
170: 2,280,811
204— 2: 2,281,013
77: 2,280,887
82: 2,281,090
205— 26: 2,281,230
206— 41.3: 2,281,060
206— 44: 2,280,935
2,281,165
48: 2,281,058
56: 2,281,251
63.2: 2,281,473
72: 2,281,236
2,281,237
209— 2: 2,280,902
2,280,903
112: 2,281,174
167: 2,280,905
455: 2,281,530
210— 24: 2,281,194
73: 2,280,916
168: 2,290,930
188: 2,281,454
203: 2,280,812
211— 81: 2,281,192
212— 8: 2,281,507
213— 32: 2,281,270
214— 13: 2,281,471
17: 2,281,305
66: 2,281,012
77: 2,281,183
93: 2,281,120
113: 2,281,004
152: 2,281,498
215— 91: 2,281,433
219— 4: 2,281,323
6: 2,280,900
10: 2,281,070
13: 2,281,298
2,281,334
2,281,335
19: 2,281,241
20: 2,281,319
38: 2,280,894
220— 55: 2,281,145
86: 2,281,448
221— 13: 2,281,135
148: 2,281,051
223— 99: 2,281,180
226— 14: 2,280,854
47: 2,281,516
51: 2,281,187
96: 2,280,826
100: 2,280,776
229— 8.5: 2,281,424
16: 2,280,793
37: 2,281,304
44: 2,281,061
46: 2,281,486
229— 51: 2,281,303
55: 2,280,819
77: 2,281,296
84: 2,281,452
230— 116: 2,281,202
117: 2,281,144
208: 2,280,845
232— 1: 2,281,440
234— 1: 2,280,844
235— 27: 2,280,958
60: 2,280,919
2,280,920
61.7: 2,280,923
2,280,924
236— 68: 2,281,309
237— 2: 2,281,107
240— 1.3: 2,280,901
7.35: 2,280,881
61.1: 2,281,047
78: 2,281,346
2,281,376
2,281,377
2,381,379
106: 2,281,378
242— 55.2: 2,281,032
55.3: 2,281,137
72: 2,280,970
75: 2,280,973
79: 2,281,423
84.4: 2,281,481
244— 17: 2,281,203
35: 2,281,272
100: 2,281,351
246— 39: 2,281,046
130: 2,280,878
134: 2,280,891
248— 71: 2,280,983
107: 2,280,940
346: 2,281,198
362: 2,281,136
250— 1: 2,281,284
6: 2,280,824
11: 2,281,274
15: 2,281,196
20: 2,281,395
27: 2,280,949
2,280,990
2,281,441
2,281,488
27.5: 2,280,939
2,280,980
2,281,041
250— 33: 2,281,429
36: 2,281,205
2,281,461
41.5: 2,280,948
2,280,978
49: 2,280,841
49.5: 2,281,325
71: Re.22,081
148: 2,280,886
164: 2,280,946
2,281,280
112: 2,280,925
251— 252— 8.5: 2,280,994
2,280,995
2,280,996
2,280,997
8.55: 2,281,419
39: 2,281,401
47: 2,281,521
51: 2,281,520
180: 2,281,392
187: 2,280,938
309: 2,280,830
253— 77: 2,281,318
254— 66: 2,281,438
86: 2,281,413
172: 2,280,932
255— 1.6: 2,280,851
2,281,414
25: 2,281,019
257— 9: 2,281,168
148: 2,281,206
241: 2,281,154
259— 1: 2,281,242
2,281,497
54: 2,281,540
260— 9: 2,280,934
15: 2,281,445
75: 2,281,415
94: 2,280,818
97.5: 2,280,842
2,280,843
108: 2,281,078
236: 2,280,816
2,280,837
297: 2,280,831
310: 2,281,014
396: 2,280,777
2,281,327
397.2: 2,280,815
2,280,828
397.5: 2,280,858
260—397.7: 2,280,856
404: 2,281,177
405: 2,280,862
406: 2,280,802
2,281,316
415: 2,281,534
428: 2,280,896
449: 2,281,228
464: 2,280,774
2,280,790
2,280,791
2,280,792
484: 2,281,394
521: 2,280,918
612: 2,281,252
613: 2,280,814
617: 2,281,253
628: 2,281,485
635: 2,280,975
655: 2,281,096
662: 2,280,928
757: 2,280,860
760: 2,281,087
771: 2,281,355
2,281,410
2,281,436
2,281,437
816: 2,281,336
261— 39: 2,281,176
2,281,411
79: 2,281,254
262— 28: 2,281,503
30: 2,281,382
263— 52: 2,281,235
264— 3: 2,281,222
265— 1.4: 2,281,001
1.6: 2,281,226
11: 2,280,947
12: 2,280,966
58: 2,281,306
266— 4: 2,281,297
2,281,331
2,281,333
41: 2,281,310
268— 126: 2,281,383
270— 58: 2,280,963
61: 2,280,955
81: 2,280,954
271— 2.2: 2,280,943
14: 2,281,295
23: 2,280,964
30: 2,281,397
271— 55: 2,280,823
275— 8: 2,281,212
280— 284: 2,280,801
285: 2,281,110
283— 38: 2,280,874
285— 86: 2,280,892
96.8: 2,281,082
163: 2,280,786
286— 5: 2,280,857
2,281,010
7: 2,281,157
287— 54: 2,281,220
90: 2,281,097
104: 2,280,929
288— 15: 2,281,195
289— 5: 2,281,290
290— 52: 2,281,214
292— 164: 2,281,317
293— 55: 2,281,215
294— 5: 2,281,501
33: 2,281,015
67: 2,281,348
91: 2,281,128
102: 2,281,389
299— 13: 2,280,780
2,280,838
84: 2,281,484
97: 2,281,142
141: 2,281,499
301— 2.5: 2,280,936
37: 2,281,153
41: 2,280,908
303— 54: 2,281,138
304— 5: 2,281,039
9: 2,280,984
306— 25: 2,280,778
308— 45: 2,281,352
309— 1: 2,281,381
45: 2,281,123
311— 78: 2,281,309
312— 36: 2,280,810
2,281,191
42: 2,281,208
44: 2,281,134
2,281,466
52: 2,281,487
150: 2,281,489

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,280,786: 285— 163
2,280,800: 219— 6
2,280,803: 34— 25
2,280,829: 117— 73
2,280,830: 252— 309
2,280,851: 255— 1.6
2,280,863: 106— 177
2,280,875: 103— 173
2,280,883: 164— 38
2,280,890: 117— 18
2,280,900: 8— 155
2,280,930: 210— 168
2,280,934: 260— 9
2,280,938: 252— 187
2,280,939: 250— 27.5
2,280,956: 200— 11
2,280,957: 200— 11
2,280,968: 24—205.5
2,281,028: 10— 160
2,281,053: 158— 36.3
2,281,078: 260— 108
2,281,082: 285— 96.8
2,281,100: 117— 16
2,281,105: 15— 134
2,281,123: 309— 45
2,281,140: 23—272.6
2,281,167: 117— 100
2,281,173: 117— 103
2,281,192: 211— 81
2,281,199: 4— 148
2,281,200: 72— 38
2,281,208: 312— 42
2,281,226: 265— 1.6
2,281,243: 202— 67
2,281,249: 167— 27
2,281,256: 15— 77
2,281,265: 4— 233
2,281,267: 99— 138
2,281,269: 34— 191
2,281,286: 33— 226
2,281,309: 311— 78
2,281,319: 219— 20
2,281,354: 34— 100
2,281,370: 34— 87
2,281,397: 271— 30
2,281,401: 252— 39
2,281,410: 260— 771
2,281,436: 260— 771
2,281,437: 260— 771
2,281,438: 254— 66
2,281,481: 242— 84.4
2,281,487: 312— 52
2,281,490: 73— 253
2,281,496: 34— 156
2,281,504: 92— 14
2,281,506: 123— 70
2,281,525: 51— 308

W. S. GOVERNMENT PRINTING OFFICE: 1942

196—	8: 2,281,282	206—	44: 2,280,935	229—	51: 2,281,303	250—	33: 2,281,429	260—397.7:	2,280,856	271—	55: 2,280,823
	10: 2,281,248		2,281,165		55: 2,280,819		36: 2,281,205	404:	2,281,177	275—	8: 2,281,212
	13: 2,281,257		48: 2,281,058		77: 2,281,296		2,281,461	405:	2,280,862	280—	284: 2,280,801
	30: 2,281,347		56: 2,281,251		84: 2,281,452		41.5: 2,280,948	406:	2,280,802		285: 2,281,110
	2,281,356		63.2: 2,281,473	230—	116: 2,281,202		2,280,978		2,281,316	283—	38: 2,280,874
	48: 2,281,362		72: 2,281,236		117: 2,281,144		49: 2,280,841	415:	2,281,534	285—	86: 2,280,892
	50: 2,281,361		2,281,237		208: 2,280,845		49.5: 2,281,325	428:	2,280,896		96.8: 2,281,082
	2,281,369	209—	2: 2,280,902	232—	1: 2,281,440		71: Re.22,081	449:	2,281,228		163: 2,280,786
	2,281,388		2,280,903	234—	1: 2,280,844		148: 2,280,886	464:	2,280,774	286—	5: 2,280,857
	52: 2,281,338		112: 2,281,174	235—	27: 2,280,958		164: 2,280,946		2,280,790		2,281,010
	2,281,527		167: 2,280,905		60: 2,280,919		2,281,280		2,280,791		7: 2,281,157
197—	186: 2,280,806		455: 2,281,530		2,280,920	251—	112: 2,280,925		2,280,792	287—	54: 2,281,220
	2,280,807	210—	24: 2,281,194		61.7: 2,280,923	252—	8.5: 2,280,994	484:	2,281,394		90: 2,281,097
	2,280,808		73: 2,280,916		2,280,924		2,280,995	521:	2,280,918		104: 2,280,929
198—	33: 2,281,006		168: 2,280,930	236—	68: 2,281,309		2,280,996	612:	2,281,252	288—	15: 2,281,195
	145: 2,280,941		188: 2,281,454	237—	2: 2,281,107		2,280,997	613:	2,280,814	289—	5: 2,281,290
	168: 2,281,026		203: 2,280,812	240—	1.3: 2,280,901		8.55: 2,281,419	617:	2,281,253	290—	52: 2,281,214
199—	33: 2,281,259	211—	81: 2,281,192		7.35: 2,280,881		39: 2,281,401	628:	2,281,485	292—	164: 2,281,317
200—	8: 2,280,976	212—	8: 2,281,507		61.1: 2,281,047		47: 2,281,521	635:	2,280,975	293—	55: 2,281,215
	11: 2,280,956	213—	32: 2,281,270		78: 2,281,346		51: 2,281,520	655:	2,281,096	294—	5: 2,281,501
	2,280,957	214—	13: 2,281,471		2,281,376		180: 2,281,392	662:	2,280,928		33: 2,281,015
	32: 2,281,139		17: 2,281,305		2,281,377		187: 2,280,938	757:	2,280,860		67: 2,281,348
	50: 2,281,052		66: 2,281,012		2,281,379		309: 2,280,830	760:	2,281,087		91: 2,281,128
	51: 2,281,221		77: 2,281,183		106: 2,281,378	253—	77: 2,281,318	771:	2,281,355		102: 2,281,389
	52: 2,281,314		83: 2,281,120	242—	55.2: 2,281,032	254—	66: 2,281,438		2,281,410	299—	13: 2,280,780
	54: 2,281,193		113: 2,281,004		55.3: 2,281,137		86: 2,281,413		2,281,436		2,280,838
	82: 2,281,337		152: 2,281,498		72: 2,280,970		172: 2,280,932		2,281,437		84: 2,281,484
	83: 2,280,959	215—	91: 2,281,433		75: 2,280,973	255—	1.6: 2,280,851	816:	2,281,336		97: 2,281,142
	84: 2,281,127	219—	4: 2,281,323		79: 2,281,423		2,281,414	261—	39: 2,281,176		2,281,447
	98: 2,280,893		6: 2,280,800		84.4: 2,281,481		25: 2,281,019		2,281,411		139: 2,281,229
	113: 2,280,960		10: 2,281,070	244—	17: 2,281,203	257—	9: 2,281,168		79: 2,281,254		141: 2,281,499
	120: 2,281,073		13: 2,281,298		35: 2,281,272		148: 2,281,206	262—	28: 2,281,503	301—	2.5: 2,280,936
	2,281,074		2,281,334		100: 2,281,351		241: 2,281,154		30: 2,281,382		37: 2,281,153
	135: 2,281,029		2,281,335	246—	39: 2,281,046	259—	1: 2,281,242	263—	52: 2,281,235		41: 2,280,908
	2,281,266		19: 2,281,241		130: 2,280,878		2,281,497	264—	3: 2,281,222	303—	54: 2,281,138
	138: 2,281,386		20: 2,281,319		134: 2,280,891		54: 2,281,540	265—	1.4: 2,281,001	304—	5: 2,281,039
	2,281,517		38: 2,280,894	248—	71: 2,280,983	260—	9: 2,280,934		1.6: 2,281,226		9: 2,280,984
	139: 2,281,021	220—	55: 2,281,145		107: 2,280,940		15: 2,281,445		11: 2,280,947	306—	25: 2,280,778
	146: 2,281,385		86: 2,281,448		346: 2,281,198		75: 2,281,415		12: 2,280,966	308—	45: 2,281,352
	148: 2,281,042	221—	13: 2,281,135		362: 2,281,136		94: 2,280,818		58: 2,281,306	309—	1: 2,281,381
	152: 2,281,044		148: 2,281,051	250—	1: 2,281,284		97.5: 2,280,842	266—	4: 2,281,297		45: 2,281,123
	166: 2,281,446	223—	99: 2,281,180		6: 2,280,824		2,280,843		2,281,331	311—	78: 2,281,309
201—	67: 2,280,977	226—	14: 2,280,854		11: 2,281,274		108: 2,281,078		2,281,333	312—	36: 2,280,810
202—	57: 2,280,794		47: 2,281,516		15: 2,281,196		236: 2,280,816		41: 2,281,310		2,281,191
	60: 2,281,311		51: 2,281,187		20: 2,281,395		2,280,837	268—	126: 2,281,383		42: 2,281,208
	62: 2,281,243		96: 2,280,826		27: 2,280,949		297: 2,280,831	270—	58: 2,280,963		44: 2,281,134
	170: 2,280,811		100: 2,280,776		2,280,990		310: 2,281,014		61: 2,280,955		2,281,466
204—	2: 2,281,013	229—	8.5: 2,281,424		2,281,441		396: 2,280,777		81: 2,280,954		52: 2,281,487
	77: 2,280,887		16: 2,280,793		2,281,488		2,281,327	271—	2.2: 2,280,943		150: 2,281,489
	82: 2,281,090		37: 2,281,304		27.5: 2,280,939		397.2: 2,280,815		14: 2,281,295		
205—	26: 2,281,230		44: 2,281,061		2,280,980		2,280,828		23: 2,280,964		
206—	41.3: 2,281,060		46: 2,281,486		2,281,041		397.5: 2,280,858		30: 2,281,397		

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,280,786:	285— 163	2,280,900:	8— 155	2,281,078:	260— 108	2,281,200:	72— 38	2,281,309:	311— 78	2,281,481:	242— 84.4
2,280,800:	219— 6	2,280,930:	210— 168	2,281,082:	285— 96.8	2,281,208:	312— 42	2,281,319:	219— 20	2,281,487:	312— 52
2,280,803:	34— 25	2,280,934:	260— 9	2,281,100:	117— 16	2,281,226:	265— 1.6	2,281,354:	34— 100	2,281,490:	73— 253
2,280,829:	117— 73	2,280,938:	252— 187	2,281,105:	15— 134	2,281,243:	202— 67	2,281,370:	34— 87	2,281,496:	34— 156
2,280,830:	252— 309	2,280,939:	250— 27.5	2,281,123:	309— 45	2,281,249:	167— 27	2,281,397:	271— 30	2,281,504:	92— 14
2,280,851:	255— 1.6	2,280,956:	200— 11	2,281,140:	23—272.6	2,281,256:	15— 77	2,281,401:	252— 39	2,281,506:	123— 70
2,280,863:	106— 177	2,280,957:	200— 11	2,281,167:	117— 100	2,281,265:	4— 233	2,281,410:	260— 771	2,281,525:	51— 308
2,280,875:	103— 173	2,280,968:	24—205.5	2,281,173:	117— 103	2,281,267:	99— 138	2,281,436:	260— 771		
2,280,883:	164— 38	2,281,028:	10— 160	2,281,192:	211— 81	2,281,289:	34— 191	2,281,437:	260— 771		
2,280,890:	117— 18	2,281,053:	158— 36.3	2,281,199:	4— 148	2,281,286:	33— 226	2,281,438:	254— 66		

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THE

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CONTENTS

	Page
Issue of April 7, 1942	1
Disclaimers	1
Applications Under Examination	2
Decisions of the U. S. Courts—	
Langendorf United Bakeries, Inc. v. General Foods Corporation	3
Wincharger Corporation v. Winchester Repeating Arms Company (Western Cartridge Company, Assignee Substituted)	5
Adjudicated Patents	6
Notice of Cancellation	6
Trade-Marks Published (132 Applications)	7
Trade-Mark Registrations Granted	23
Trade-Mark Registrations Renewed	29
Reissues	33
Patents Granted	36
Designs	243

April 7, 1942

Trade-marks	101	No. 394,426 to No. 394,526, inclusive.
T. M. Renewals	61	
Reissues	9	No. 22,057 to No. 22,065, inclusive.
Patents	884	No. 2,278,407 to No. 2,279,290, inclusive.
Designs	110	No. 131,898 to No. 132,007, inclusive.
Total	1,165	

Disclaimers

Re. 21,713.—*Robert G. Le Tourneau*, Peoria, Ill. Removable Neck for Power Control Unit. Patent dated February 11, 1941. Disclaimer filed March 9, 1942, by the inventor and the assignee, *R. G. Le Tourneau, Inc.*

Hereby enter this disclaimer to claims 1, 2, and 3 of the specification.

1,610,192.—*Cesare Barbieri*, New York, N. Y. Conical Paper Cup and Process for Making the Same. Patent dated December 7, 1926. Disclaimer filed March 6, 1942, by the inventor; the assignee, *Dixie-Vortex Company*, approving and confirming.

Hereby enters this disclaimer to claim 1 in said Letters Patent.

1,846,863.—*Harold F. Hagen*, Dedham, Mass. Fan and Method of Operating the Same. Patent dated February 23, 1932. Disclaimer filed March 6, 1942, by the assignee, *B. F. Sturtevant Company*.

Hereby enters this disclaimer to claim 1 of said patent.

1,895,568.—*Leo P. Curtin*, Cranbury, N. J., and *Bernard L. Kline*, Brooklyn, N. Y. Rust Proofing Iron and Steel Articles. Patent dated January 31, 1933. Disclaimer filed March 11, 1942, by the assignee, *The Western Union Telegraph Company*.

Hereby enters this disclaimer to claim 8 of the patent.

1,895,569.—*Leo P. Curtin*, Cranbury, N. J., and *Bernard L. Kline*, Brooklyn, N. Y. Production of Protective Coatings on Iron and Steel Articles. Patent dated January 31, 1933. Disclaimer filed March 11, 1942, by the assignee, *The Western Union Telegraph Company*.

Hereby enters this disclaimer to claims 1, 2, 3, and 4 of the patent.

1,912,645.—*Robert G. Le Tourneau*, Stockton, Calif. Power Control Unit. Patent dated June 6, 1933. Disclaimer filed March 9, 1942, by the inventor and the assignee, *R. G. Le Tourneau, Inc.*

Hereby enter this disclaimer to claims 6 and 7 of the specification of said patent.

2,155,178.—*James C. Brown*, Mount Vernon, N. Y. Treatment of Hair. Patent dated April 18, 1939. Disclaimer filed March 6, 1942, by the assignee, *E. Frederics, Inc.*

Hereby enters this disclaimer to claims 1, 2, 3, 4, 5, 6, and 9 of said Letters Patent.

2,238,242.—*Walter J. Balon*, Carneys Point, and *John M. Tinker*, Penns Grove, N. J. Aromatic Fluorine Compounds. Patent dated April 15, 1941. Disclaimer filed February 25, 1942, by the inventors and the assignee, *E. I. du Pont de Nemours & Company, Inc.*

Hereby enter this disclaimer to claim 8 in said patent.

2,255,917.—*Harold B. Donley* and *Samuel Johnson*, Columbus, Ohio. Automatic Air Shutter for Oil Burners. Patent dated September 16, 1941. Disclaimer filed March 12, 1942, by the inventors; the assignee, *Columbus Metal Products, Inc.*, consenting.

Hereby enter this disclaimer to claims 5 and 6 of said Letters Patent.

Condition of Applications Under Examination at Close of Business March 21, 1942

(Total number of applications awaiting action, exeluding Trade-Mark Division, 46,923; Trade-Mark Division, 1,116. Oldest new case, May 26, 1941; oldest amended, April 28, 1941.)
(The dates given are 1941 except where † indicates 1942)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	July 22	July 11	737
6708	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Oct. 8	Sept. 8	701
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Dec. 2	Dec. 2	588
7063	4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating, Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	Oct. 9	Oct. 13	540
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	Aug. 28	Oct. 1	440
4808 C	6. LEWERS, A. M., Carbon Chemistry (part)	Aug. 25	Sept. 4	1,090
5725	7. JARBOE, C. G., Optics; Photography	Aug. 29	Aug. 29	1,008
3885	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	July 28	Sept. 9	779
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Oct. 7	Oct. 2	601
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	July 14	July 18	933
5087 B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Nov. 18	Nov. 27	400
7701	12. SPINTMAN, SAMUEL (Act.), Machine Elements; Mechanical Starters; Stop Mechanisms	Oct. 10	Sept. 10	571
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Aug. 1	July 10	631
5097	14. FREEHOF, H. B. (Act.), Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	Nov. 18	Nov. 15	594
4807	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Aug. 23	Aug. 26	1,162
5716	16. SPENCER, C. J., Telegraphy; Telephony	Sept. 20	Oct. 8	508
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	July 21	July 15	971
4612	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Sept. 30	Sept. 30	590
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	July 26	Aug. 13	678
6805	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	Sept. 29	Sept. 29	384
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Nov. 17	Oct. 24	397
5600	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	May 26	May 26	1,779
7624	23. BUTTNER, W. J., Registers (part)	July 8	May 20	244
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Sept. 24	Sept. 29	872
5709	25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Oct. 10	Oct. 16	534
5893	26. YOUNG, R. R., Electricity, Generation; Motive Power	Oct. 29	Oct. 13	440
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	Oct. 3	July 31	592
4628	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Elements; Cylinders and Pistons	Sept. 20	Aug. 8	373
5082	29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	Aug. 16	Aug. 9	698
4083	30. McCANN, L. P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Nov. 29	Dec. 1	411
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	Sept. 27	Sept. 25	1,519
4086	32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Sept. 1	Sept. 1	930
6096	33. KAUFFMAN, H. E. (Act.), Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads.	June 26	July 14	888
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Surface Track; Track Sanders; Draft Appliances; Signals and Indicators.	Aug. 1	Oct. 16	417
3876	35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Portable Receptacles	July 15	July 21	993
7902	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Sept. 29	Sept. 24	639
5886 B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Nov. 21	Nov. 10	600
3084	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stoneworking; Wells; Plastic Compositions.	Aug. 26	Aug. 14	687
4878	39. WHITNEY, F. L., Fluid Pressure Regulators; Multiple Valves; Valves; Water Distribution	Nov. 6	Nov. 1	534
7880	40. DRUMMOND, E. J., Metallic, Wood, Paper, and Special Receptacles	Aug. 15	Aug. 15	1,562
7612	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	Sept. 27	Sept. 26	568
5882	42. CUTTING, H. O., Electric Signaling	Oct. 27	Oct. 10	426
4886 B	43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Sept. 10	Sept. 3	786
4087 B	44. HARVEY, L. P., Refrigeration	Sept. 19	Sept. 17	359
7093	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	†Jan. 9	†Jan. 5	370
4612	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Aug. 30	Aug. 30	780
6082	47. KANOF, W. J., Clutches; Brakes	Nov. 5	Oct. 18	384
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Aug. 19	Aug. 19	787
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Sept. 8	Sept. 10	670
4701	50. LEVIN, S., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	Aug. 26	Aug. 26	1,514
5628	51. BACKUS, C. D., Radiant Energy (part)	Dec. 10	Dec. 10	361
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	Nov. 17	Oct. 25	425
6807	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	July 16	Apr. 28	534
5883	54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	Nov. 13	Nov. 12	421
6083	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	Nov. 1	Nov. 3	309
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	July 29	July 29	1,373
6613	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	Oct. 24	Nov. 21	298
5605	58. DOWELL, E. F., Abrading; Bottles and Jars	Oct. 25	Nov. 8	426
4709	59. SHEPPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	July 7	July 24	1,239
5896	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Oct. 4	Oct. 4	337
6734	61. YUNOKWAI, B., Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	Sept. 18	Sept. 7	720
5621	62. PUGH, E. C., Games; Geometrical Instruments	Sept. 17	Aug. 25	718
4888	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	July 16	July 4	1,405
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats and Glue; Liquid Coating Compositions; Fuel.	Sept. 8	Sept. 8	1,630
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	Oct. 31	Nov. 24	366
2099 B	Trade-Marks: F. A. RICHMOND	†Jan. 30	†Jan. 22	1,116
2605	Designs: H. H. KALUPY	Feb. 2	Feb. 12	702

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

LANGENDORF UNITED BAKERIES, INC.

v.

GENERAL FOODS CORPORATION

No. 4,567. Decided February 2, 1942

[125 F.(2d) 159]

1. TRADE-MARKS—OPPOSITION—PRACTICE.
Where the applicant cited a number of trade-mark registrations in its answer, but introduced none in evidence *Held* that the Examiner of Trade-Mark Interferences properly declined to consider them.

2. SAME—DOMINANT PORTION.
The term "Wheato" in applicant's mark, "Wheato-Nuts", *Held* descriptive, and the word "Nuts" in said mark *Held* to be the dominant portion thereof.

3. SAME—CONFUSING SIMILARITY.
Applicant's mark, "Wheato-Nuts", applied to a breakfast cereal food *Held* confusingly similar to the opposer's registered mark, "Grape-Nuts", applied to breakfast foods prepared from cereals.

4. SAME—APPROPRIATION OF PART OF MARK.
Where the applicant introduced no testimony and there was no explanation why it chose the word "Nuts" as a part of its mark, "Wheato-Nuts", *Held* that it must be assumed that applicant deliberately appropriated a part of opposer's well-known mark, "Grape-Nuts", with the expectation of profiting by the confusion that would result therefrom.

APPEAL from Patent Office. Affirmed.

BLAND, *J.*, concurring in the conclusion.

Mr. A. W. Boyken and *Mr. W. Bruce Beckley* (*Messrs. Boyken, Mohler & Gordon* of counsel) for Langendorf United Bakeries, Inc.

Mr. Mansfield C. Fuldner for General Foods Corporation.

LENROOT, *J.*:

This is a trade-mark opposition proceeding wherein the Commissioner of Patents of the United States Patent Office affirmed a decision of the Examiner of Interferences sustaining the notice of opposition of appellee to the registration by appellant of the mark applied for by it, and adjudging that appellant is not entitled to the registration for which it has made application. From such decision of the Commissioner appellant has appealed to this court.

On February 17, 1939, appellant filed an application under the Trade-Mark Act of February 20, 1905, for the registration of the mark "Wheato-Nuts" applied to a breakfast cereal food. A specimen of the trade-mark as actually used by appellant was filed with its application. Such specimen contains in addition to the mark certain printed matter, including the statement that "This delicious nut brown cereal is made chiefly of wheat products * * *."

Appellee filed its notice of opposition, alleging confusing similarity with its trade-mark "Grape-Nuts" applied to breakfast foods prepared from cereals; said notice also alleged prior use and registration of its mark.

Appellant in its answer denied that the marks were confusingly similar, and alleged that appellee has no exclusive right to the use of the word "nuts" as applied to grain products; the answer set forth a large number of alleged registrations of marks in the Patent Office in which the words "nut" and "nuts" were used as a part of the marks so registered. None of such alleged registrations, however, were introduced in evidence.

Appellant took no testimony. Appellee took testimony from which it appears that it and its predecessors have used the trade-mark "Grape-Nuts" applied to a breakfast cereal for many years prior to the adoption and use by appellant of its mark, and four Patent Office registrations of appellee's mark were introduced in evidence. It further appears from said testimony that appellee's goods upon which its mark is used are made principally of wheat; that from January 1, 1934, to December 31, 1938, appellee's sales of such goods bearing its mark amounted to about $16,000,000; that during the same period appellee expended for advertising its goods bearing the mark the sum of $3,754,566.00; and that since 1897 more than a billion packages of such goods bearing said mark have been sold by appellee and its predecessors. A package of appellee's goods was introduced in evidence; the carton contains the statement "Made of Wheat, Malted Barley, Salt and Yeast."

The Examiner of Interferences cited the case of *Postum Cereal Co., Inc.*, v. *Farmers' Mill & Elevator Ass'n.*, 58 App. D. C. 73, which involved the registration of the notation "Wheat-Nut" for a cereal breakfast food over the opposition of appellee's predecessor, Postum Cereal Co., alleging as here the prior use and registration of the mark "Grape-Nuts" upon a cereal breakfast food. The Examiner quoted certain statements from the opinion in said case which, he stated, he deemed pertinent in this proceeding. The statements so quoted are as follows:

> In considering the matter of confusing similarity, we think it important to examine into the character of the goods on which the marks are used. The goods are both largely wheat products. The users of Grape-Nuts are familiar with the fact that the cereal sold under that name is chiefly produced from wheat; hence the adoption of the word "wheat" as part of the appellee's mark is merely the name of the product on which the marks are used. This we deem important, in determining whether or not the marks are so similar as to lead to confusion. The purchasing public, seeking a wheat cereal, might easily be misled by the similarity of the marks, applied to the same product.
>
> * * * * * * *
>
> We think that the present case is in line with the decision of the Commissioner of Patents in *Postum Cereal Co.* v. *Hillis*, opposition No. 2098, where the question involved was the similarity of the marks "Grape-Nuts" and "Bran-Nuts." There, as here, the marks were applied to goods composed largely of a wheat product, and the user of one might readily be confused by the other.

The Examiner of Interferences declined to consider the registrations set up in appellant's answer because they had not been duly produced as a part of the record.

The Commissioner, in affirming the decision of the Examiner of Interferences, stated that he was constrained to follow the reasoning of the court in the case of *Postum Cereal Co., Inc.*, v. *Farmers' Mill & Elevator Ass'n.*, supra. He also stated that the opposer does not have the exclusive use of the word "nuts" as a trade-mark and that the words "Grape" and "Wheato" are distinctly different.

[1] With respect to the refusal of the Examiner of Interferences to consider the registrations set forth in appellant's answer, because not produced in the record, which refusal was presumably affirmed by the Commissioner, we would first observe that we find no reason of appeal assigning such refusal as error, and second, the Examiner of Interferences was right in so declining to consider such alleged registrations. *Cross* v. *Williams Oil-O-Matic Heating Corporation*, 18 C. C. P. A. (Patents) 1192, 48 F.(2d) 659, 410 O. G. 540.

[2] It will be observed from the quotation hereinbefore made from the case of *Postum Cereal Co., Inc.*, v. *Farmers' Mill & Elevator Ass'n.*, supra, that the court in that case held that the adoption of the word "wheat" in the mark "Wheat-Nut" was merely the adoption of the name of the product on which the marks were used. This we construe as a holding by that court that the word "wheat" in the mark "Wheat-Nut" was descriptive, and as the Examiner held that he considered the language there used as being pertinent here, we are of the opinion that the Examiner of Interferences in the case at bar held in effect that the term "Wheato" in appellant's mark was descriptive. This too, is our opinion, for we do not regard the addition of the letter "o" to the word "wheat" as being significant. It appears from appellant's specimen filed with its application for the registration of its mark that the public is expressly told in the printing upon the specimen that the goods to which the mark is applied are made chiefly from wheat products. This being true, we do not think that the notation "Wheato" would indicate to purchasers to any degree the origin of the goods, but only that the goods were made in part of wheat. Therefore the dominant part of appellant's mark, so far as indicating origin is concerned, is the word "nuts" which, in view of the wide use of appellee's product, "Grape-Nuts," we must presume that appellant has appropriated from appellee's mark.

In the case of *In re Coca Cola Bottling Co. of Los Angeles*, 18 C. C. P. A. (Patents) 1384, 49 F.(2d) 838, 412 O. G. 559, the registration of the mark "Lemon Frost" was refused in view of the mark "Jack Frost," each of said marks being used upon soft drinks. We held that the use of the word "lemon" in the mark "Lemon Frost" was for the purpose of indicating the flavor of the drink contained in the bottle to which the mark "Lemon Frost" was applied. We therefore held that, inasmuch as the word "lemon" in the mark "Lemon Frost" was used to indicate the flavor of the goods, it could not be relied upon to indicate origin of the goods, and that the marks "Jack Frost" and "Lemon Frost" were confusingly similar. There the first words of the respective marks were very dissimilar, and the same is true of the first words of the marks here involved.

In the case of *Frankfort Distilleries, Inc.*, v. *Kasko Distillers Products Corporation*, 27 C. C. P. A. (Patents) 1189, 111 F.(2d) 481, 520 O. G. 535, we said:

> If the purchaser of trade-marked goods would be more likely to remember one part of a mark than another part as indicating origin of the goods, such word is the dominant part of the mark under the decisions above cited.

[3] For the reasons stated, we must hold that the dominant portion of appellant's mark is the word "nuts," and that, considered in its entirety, appellant's mark is confusingly similar to appellee's mark "Grape-Nuts."

It is not claimed by appellant that the word "nuts" is descriptive of cereal breakfast foods, but only that appellee is not entitled to the exclusive use of this word in a trade-mark. For the purposes of this case, this may be conceded; but to avoid conflict with appellee's mark the word "nuts" must be used in such association as will clearly avoid confusion in the mind of the purchasing public as to the origin of the goods. Appellant's mark, in our opinion, does not accomplish this.

[4] Finally we would observe that appellant introduced no testimony, and there is no explanation in the record of why appellant chose the word "nuts" as a part of its mark. Under these circumstances we must assume that appellant deliberately appropriated a part of appellee's well-known mark with the expectation that it would profit by the confusion that would result therefrom. That this is a matter proper for consideration in cases of this character is well established. *Lever Brothers Co.* v. *Riodela Chemical Co.*, 17 C. C. P. A. (Patents) 1272, 41 F.(2d) 408, 398 O. G. 356; *The Procter & Gamble Co.* v. *J. L. Prescott Co.*, 18 C. C. P. A. (Patents) 1433, 49 F.(2d) 959, 413 O. G. 1105.

In our opinion in the case of *Steinreich* v. *The Coca Cola Co.*, 21 C. C. P. A. (Patents) 722, 67 F.(2d) 498, 438 O. G. 529, we said:

> Had appellant wished clearly to indicate the origin of his goods, there were many thousands of words which he might have selected as a trade-mark for his product, or he could have coined a word or words, none of which could be open to the claim of similarity to appellee's mark. * * *

A like observation is applicable here.

Each of the parties in its brief has cited a large number of cases in support of its respective contention. Many of such decisions are of very little value because they depend upon the facts of the particular cases.

One of the cases cited by the Commissioner and by appellant is that of *Yeasties Products, Inc.*, v. *General Mills, Inc.*, 22 C. C. P. A. (Patents) 1215, 77 F.(2d) 523, 460 O. G. 499, involving the trade-marks "Yeasties" and "Wheaties," which we held were not confusingly similar as applied to a cereal breakfast food. We would observe that in that case no question of descriptiveness of any part of the marks was involved, and we merely held that because each of the words "yeast" and "wheat" had the same suffix—"ies"—they did not thereby become confusingly similar.

For the reasons herein stated the decision of the Commissioner of Patents is affirmed.

Affirmed.

BLAND, *J.*, concurs in the conclusion.

U. S. Court of Customs and Patent Appeals

WINCHARGER CORPORATION

v.

WINCHESTER REPEATING ARMS COMPANY (WESTERN CARTRIDGE COMPANY, ASSIGNEE, SUBSTITUTED)

No. 4,527. Decided December 29, 1941

[124 F.(2d) 191]

1. TRADE-MARKS—GOODS OF THE SAME DESCRIPTIVE PROPERTIES.
   Dry cell batteries *Held* to be in the same general class as storage batteries.
2. SAME—OPPOSITION—VALIDITY OF REGISTERED MARK.
   Where the application of Wincharger Corp. for registration of the notation "Wincharger" as a trade-mark for storage batteries was opposed by the Winchester Repeating Arms Co. upon the basis of various registrations of the word "Winchester" and principally upon the registration of that word for flash lights and electric batteries *Held* that the fact that "Winchester" may be opposer's surname and also a geographical name is of no consequence.
3. SAME—CONFUSING SIMILARITY.
   In regard to the question of confusing similarity between the notation "Wincharger" and the word "Winchester" *Held* that "even if it be conceded that the notation 'Wincharger' is an 'arbitrary and coined mark' which * * * is 'displayed in a unique and fanciful manner,' that has little, if any, bearing upon the question of likelihood of confusion," and *Held* that as respectively applied to storage batteries and dry cell batteries said marks are confusingly similar.

APPEAL from Patent Office. Affirmed.

Mr. Irving Herriott and *Mr. Charles M. Thomas* for Wincharger Corporation.

Messrs. Hervey, Barber & McKee (*Mr. Morrison T. Hankens* and *Mr. Charles R. Allen* of counsel) for Winchester Repeating Arms Company (Western Cartridge Company, Assignee, Substituted).

GARRETT, *P. J.*:

This is an appeal from the decision of the Commissioner of Patents sustaining the opposition of appellee to appellant's application for registration of the notation "Wincharger" for use as a trade-mark for electrical storage batteries, the application being filed August 30, 1937. In so deciding, the Commissioner reversed the decision of the Examiner of Interferences.

In its notice of opposition appellee listed various registrations by it of the word "Winchester" for use as a mark on a wide variety of articles, including one of February 7, 1922, for "flash lights and electric batteries," this being the registration upon which it principally relies.

The forms of the respective marks may be seen from the following facsimiles:

Opposer's

WINCHESTER

and

Applicant's

WINCHARGER

It may be said that the zigzag lines of appellants mark are stated to be arranged for the simulation of lightning flashes.

Both parties took testimony and a somewhat elaborate record was presented, due in part to the fact that there was another controversy between the same parties involving a cancellation proceeding, and the testimony was taken concurrently in both cases. Our decision in the cancellation proceeding, which also reached us by appeal, is rendered concurrently herewith. *Winchester Repeating Arms Company (Western Cartridge Company, Assignee, Substituted)*, v. *Wincharger Corporation* (appeal No. 4,528), 29 C. C. P. A. (Patents) —, 124 F.(2d) 189.

While the difference in the issues involved in the respective cases require separate decisions, it may be said that there is no serious dispute as to facts in either case, and we deem it unnecessary here to enter upon any recital of the history of the businesses of the parties additional to what is stated in our decision in the companion case.

In describing the goods involved in the instant (opposition) proceeding, the Examiner of Interferences said:

> The opposer sells a wide variety of goods, of which it seems to here rely primarily upon electric batteries. These are all of the dry cell type and, as shown by the catalogue, opposer's Exhibit 1, include heavy duty radio A, B and C batteries and smaller batteries used for flash lights, ignition, etc.
>
> Storage batteries, unlike dry cell batteries, are capable of being recharged and may be designed to accommodate heavy electric charges, so that they are suitable for many uses, such as house lighting, machinery operation and others for which dry batteries are impracticable. Although the two types of batteries doubtless pertain to the same classification of goods they are quite different in structure, appearance and ordinarily in price, and for practical reasons are not as a rule competitive articles.

Following this, the Examiner of Interferences drew attention to the difference in the appearance, etc., of the marks and, citing different authorities deemed by him to be applicable, said:

> The differences in the specific characteristics of the goods and in their trade appeal and the differences in the marks here involved seem to the Examiner to be cumulative in nature. The latter is persuaded that the cumulative effect thereof is sufficient to obviate any reasonable likelihood of confusion as a result of concurrent use of these marks in trade. In this connection the record seems to show that the applicant has used the mark it seeks to register in good faith, and it must be here presumed that it will continue to do so.
>
> *Ward Baking Co.* v. *New Standard Baking Co.*, 448 O. G. 764; 71 F.(2d) 186; 21 C. C. P. A. 1173.

The decision of the Commissioner was less elaborate than that of the Examiner of Interferences. After stating the issue, the Commissioner said:

> That electric batteries and electric storage batteries are merchandise of the same descriptive properties seems self-evident. It appears, however, that the batteries in

which opposer actually deals are all of the dry cell type; and it was the Examiner's opinion that the specific differences between storage batteries and dry cell batteries, considered in connection with the differences between the marks of the parties, are "sufficient to obviate any reasonable likelihood of confusion as a result of concurrent use of these marks in trade."

I am unable to agree with the Examiner's conclusion. The two words "Winchester" and "Wincharger" contain the same number of letters, the first five and the last two being identical; they are both three-syllable words, with the accent normally on the first syllable; they do not differ greatly in sound; and, as displayed in the registration and the application, they are quite similar in appearance. I think their use on goods so nearly related as dry cell batteries and storage batteries may readily lead to confusion.

Comprehensive briefs embracing much argument and citing many authorities have been filed before us and these have been carefully considered along with the oral arguments presented at the hearing.

We are unable to discern anything of an extraordinary character in the issue here presented, which, to our minds, is quite a simple one involving nothing other than the likelihood of confusion, and we deem it unnecessary unduly to lengthen this opinion by reciting and commenting upon the arguments of either party in detail. The first two paragraphs of appellant's brief read as follows:

Western Cartridge Company, assignee, substituted for Winchester Repeating Arms Company, seeks to inhibit registration of appellant's *fancifully displayed, arbitrary and coined mark* "Wincharger" as applied to *electric storage batteries*. The opposition is based solely on the prior registration and use by appellee of the notorious *surname and geographical word* "Winchester", applied exclusively to *dry cell batteries and flashlights*.

The sole issue is whether appellant's concededly arbitrary, catchy, suggestive mark "Wincharger", displayed in a unique and fanciful manner, when applied solely to electric storage batteries, is to be denied registration under section 5 of the Trade-Mark Act of 1905, because it so nearly approaches appellee's *surname and geographical* mark "Winchester", used in connection with dry cell batteries and flashlights, as to be likely to cause confusion in trade. [Italics quoted.]

Substantially all that follows in the brief is in elaboration of the foregoing.

[1] [2] [3] With respect to it, we may say, in the first place, that appellant concedes that storage batteries and dry cell batteries are in the same general class as was specifically held, we think correctly, by both tribunals below. Such being the case, it is obviously essential that the contesting marks be carefully scrutinized in considering the question of likelihood of confusion. In the second place, the fact that "Winchester" may be the surname of appellee and also a geographical term is not regarded by us as being of consequence in this proceeding. The validity of appellee's mark is not under attack here. In the third place, even if it be conceded that the notation "Wincharger" is an "arbitrary and coined mark" which, as arranged by appellant, is "displayed in a unique and fanciful manner," that has little, if any, bearing upon the question of likelihood of confusion. A "coined" word may be as confusing as a well known word which has found its way into the dictionaries.

Upon full consideration, we are of opinion that the Commissioner reached the correct conclusion, and his decision is affirmed.

Affirmed.

Adjudicated Patents

(C. C. A. Tex.) Carter patent, No. 1,426,955, for oil, gas and water separator, claims 1, 10, and 11 *Held* invalid, claims 2–4 and 7–9 *Held* not infringed. *Dee Co.* v. *Sun Oil Co.*, 125 F.(2d) 63.

(C. C. A. Md.) Driggs, Jr., and Faber patent, No. 1,712,382, for firearm, claims 1 and 2 *Held* invalid. *Triumph Explosives* v. *Kilgore Mfg. Co.*, 125 F.(2d) 151.

(C. C. A. Md.) Driggs, Jr., and Faber patent, No. 1,712,383, for fixed ammunition for firearms, claims 2 and 7 *Held* valid and infringed. *Id.*

(C. C. A. Ohio.) Suppiger patent, No. 1,887,073, for method of flavoring in canning, preserving and bottling operations, *Held* invalid. *Scientific Tablet Co.* v. *Ossege*, 125 F.(2d) 151.

(C. C. A. Md.) Driggs, Jr., and Faber patent, No. 1,947,834, for flare signal, *Held* not infringed. *Triumph Explosives* v. *Kilgore Mfg. Co.*, 125 F.(2d) 151.

(C. C. A. Ill.) Lanser reissue patent, No. 20,369, for liquid measuring apparatus, claims 3, 5, 7, 10, 11, and 12 *Held* invalid. *S. F. Bowser & Co.* v. *Gilbert & Barker Mfg.*, 125 F.(2d) 145.

(C. C. A. Ill.) Griffith reissue patent, No. 21,186, for air release mechanism for dispensing apparatus, claims 6, 17, 18, 19, and 20 *Held* invalid. *Id.*

Notice of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., March 18, 1942.*

Itala Imported Food Products Co., Inc., its assigns or legal representatives, take notice:

A cancellation proceeding has been instituted by this Office upon the application of Uddo Taormina Corp., 107 Humbolt St., Brooklyn, N. Y., to effect the cancellation of trade-mark registration of Cafiero & Mencacci, No. 193,009, dated December 16, 1924. The assignment records of this Office show a transfer of title to this registration to Itala Imported Food Products Co., Inc., Brooklyn, N. Y., who has been substituted for said Cafiero & Mencacci to defend the registration concerned. The notice of such proceeding sent by registered mail to Itala Imported Food Products Co., Inc., at the said address, having been returned by the post office as undeliverable, notice is hereby given that unless Itala Imported Food Products Co., Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

HENRY VAN ARSDALE,
Assistant Commissioner.

U. S. GOVERNMENT PRINTING OFFICE: 1942

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 7, 1942

[VOL. 537. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 446,261. CATALIN CORPORATION, New York, N. Y. Filed Aug. 15, 1941.

Loalin

FOR RESINOUS MATERIAL FOR USE AS A MOLDING POWDER AND THE LIKE.
Claims use since Aug. 1, 1941.

Ser. No. 447,632. RONALD A. FORTH, INC., Boston, Mass. Filed Oct. 9, 1941.



No claim is made to the name "Ronald A. Forth Inc." or to the words "Boston, Mass. U. S. A.", "Hides and Leather," and "Leathers," or to the representation of the goods apart from the mark.
FOR SKINS, HIDES, AND LEATHERS.
Claims use since Oct. 3, 1941.

Ser. No. 448,175. ALFRED VAMOS, New York, N. Y., assignor to Clarence E. Nelson, New York, N. Y. Filed Oct. 27, 1941.

Lasti-KID

The word "Kid" is disclaimed apart from the mark.
FOR REAL LEATHER.
Claims use since Oct. 24, 1941.

Ser. No. 448,176. ALFRED VAMOS, New York, N. Y., assignor to Clarence E. Nelson, New York, N. Y. Filed Oct. 27, 1941.



The word "Kid" is disclaimed apart from the mark.
FOR REAL LEATHER.
Claims use since Oct. 24, 1941.

Ser. No. 449,792. BRANDT LEATHER CORPORATION, Boston, Mass. Filed Dec. 27, 1941.

Dapper Goat

The word "Goat" is disclaimed apart from the mark.
FOR LEATHER MADE FROM GOAT, KID AND OTHER SKINS.
Claims use since September, 1937.

Ser. No. 450,368. LONE STAR PEAT MOSS COMPANY, Dallas, Tex. Filed Jan. 21, 1942.

BLACK MAGIC

FOR PEAT MOSS.
Claims use since Dec. 15, 1939.

Ser. No. 450,443. THE CELOTEX CORPORATION, Chicago, Ill. Filed Jan. 24, 1942.

CELOTEX

FOR ASPHALTS COMPRISING OXIDIZED MID-CONTINENT ASPHALTS AND/OR OXIDIZED MEXICAN BLENDED ASPHALTS—NAMELY, ASPHALTS, REGULAR FLAT, REGULAR STEEP, BONDED FLAT, AND BONDED STEEP; FOR PITCHES COMPRISING OXIDIZED PITCHES—NAMELY, PITCHES, STEEP ROOF, AND FLAT ROOF, FOR REFINED TAR COMPRISING DEHYDRATED STRAIGHT COKE OVEN TAR; AND FOR GYPSUM PRODUCTS COMPRISING UNCALCINED GYPSUM—NAMELY, AGRICULTURAL GYPSUM AND LANDPLASTERS—NAMELY, FINE LANDPLASTER COMPRISING DUST FROM GYPSUM ROCK DRIER USED FOR DUSTING GYPSUM, DILUTENT IN MANUFACTURE OF INSECTICIDES

AND BASE OF STUCCO USED IN PLASTER AND BOARD MANUFACTURE, REGULAR LANDPLASTER COMPRISING PULVERIZED DRIED GYPSUM ROCK USED FOR DUSTING GYPSUM AND BASE OF STUCCOS, AND PICKED ROCK LANDPLASTER COMPRISING PULVERIZED DRIED GYPSUM ROCK USED FOR DUSTING GYPSUM AND BASE OF GAUGING PLASTERS.

Claims use on asphalts since Jan. 16, 1939; and on asphalts—namely, regulat flat, since Jan. 16, 1939; on regular steep, since Feb. 28, 1939; on bonded flat, since May 16, 1939; and on bonded steep since Feb. 6, 1939; on pitches, since Feb. 6, 1939; and on pitches—namely, steep roof, since Feb. 7, 1939; and on flat roof, since Feb. 6, 1939; on refined tar, since Jan. 10, 1940; and on gypsum products, since Jan. 9, 1940; and on gypsum products—namely, agricultural gypsum, since Jan. 9, 1940; and on landplaster, since Jan. 13, 1940.

Ser. No. 450,444. CENTRAL FUEL CORPORATION, Chicago, Ill. Filed Jan. 24, 1942.

DAISY MAY

FOR COAL.
Claims use since Sept. 16, 1940.

Ser. No. 450,615. CENTRAL FUEL CORPORATION, Chicago, Ill. Filed Jan. 31, 1942.

STAR HILL

FOR COAL.
Claims use since Nov. 1, 1935.

CLASS 2

RECEPTACLES

Ser. No. 438,747. WOLF BROTHERS, Philadelphia, Pa. Filed Dec. 11, 1940.

DOUBLE-U-LOCK

The word "Lock" is disclaimed apart from the mark.
FOR MERCHANDISE BAGS AND MERCHANDISE ENVELOPES MADE OF PAPER.
Claims use since Dec. 3, 1940.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 449,254. EL TORO ELASTICS, INC., New York, N. Y. Filed Dec. 8, 1941.

EL TORO BRAND

The word "Brand" is disclaimed apart from the mark.
FOR ELASTIC GIRTHS AND BELLY BANDS FOR ANIMALS.
Claims use since Oct. 23, 1941.

Ser. No. 451,158. AMITY LEATHER PRODUCTS CO., West Bend, Wis. Filed Feb. 23, 1942.

The Westerner

FOR BILLFOLDS.
Claims use since Jan. 16, 1942.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 449,500. K. J. QUINN & CO., INC., Boston, Mass. Filed Dec. 15, 1941.

Q

FOR SHOE AND LEATHER FINISHES—NAMELY, POLISH, DRESSING, LACQUERS, WASH, SHANK INK, AND COLOR REPAIRER.
Claims use since January, 1909.

Ser. No. 450,228. HUNTINGTON LABORATORIES, INC., Huntington, Ind. Filed Jan. 15, 1942.

FLOOR-SAN

The word "Floor" is disclaimed apart from the mark.
FOR LIQUID SOAP FOR CLEANSING WOOD, LINOLEUM, TERRAZZO, MARBLE, TILE, AND SIMILAR SURFACES.
Claims use since June, 1925.

Ser. No. 450,543. H. KOHNSTAMM & CO., INC., New York, N. Y. Filed Jan. 28, 1942.

NO-CLOR

FOR WASHING COMPOUND FOR LAUNDRY PURPOSES.
Claims use since Jan. 2, 1942.

CLASS 5

ADHESIVES

Ser. No. 448,824. JACOB FUCHS, Brooklyn, N. Y. Filed Nov. 22, 1941.

TRADE MARK "LACTON"

Applicant disclaims the word "Trade Mark" apart from the mark.
FOR CASEIN GLUE IN THE FORM OF A DRY POWDER.
Claims use since Jan. 1, 1925.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 433,117. HAZEL ADAMS, Coffeyville, Kans. Filed June 18, 1940.

FLIGO

FOR FLY SPRAY.
Claims use since Apr. 12, 1936.

Ser. No. 436,401. BETTY PLOUGH, doing business as The Seville Company, St. Cloud, Minn. Filed Sept. 26, 1940.

FATHER'S OINTMENT

The word "Ointment" is disclaimed apart from the mark.
FOR OINTMENT FOR THE TREATMENT OF RHEUMATIC AND MUSCULAR TROUBLES AND SKIN AILMENTS.
Claims use since Mar. 2, 1939.

Ser. No. 440,781. HARBOURTS DRUG COMPANY, Trenton, N. J. Filed Feb. 19, 1941.

TUskaps

FOR MEDICINAL PREPARATION FOR COLDS AND ALSO THE FEVERISH CONDITIONS AND HEADACHES ASSOCIATED WITH THEM.
Claims use since May 20, 1933.

Ser. No. 443,959. STA-RITE GINNIE-LOU, INC., Shelbyville, Ill. Filed May 26, 1941.

Last-Wax

The word "Wax" is disclaimed apart from the mark.
FOR FINGERNAIL WAX.
Claims use since May 15, 1941.

Ser. No. 446,891. RADIATOR SPECIALTY COMPANY, Charlotte, N. C., Los Angeles, Calif., and Toronto, Ontario, Canada. Filed Sept. 8, 1941.

Liquid WRENCH

The word "Liquid" is disclaimed apart from the mark.

FOR CHEMICAL PREPARATION IN LIQUID FORM FOR REMOVING ALUMINUM CYLINDER HEADS, LOOSENING STUCK VALVE GUIDES, FROZEN KING PINS, LOOSENING NUTS AND BOLTS OR OTHER PARTS HELD FAST BY RUST OR CARBON.
Claims use since Aug. 18, 1941.

Ser. No. 449,540. JOHN H. BRECK, INC., Springfield, Mass. Filed Dec. 17, 1941.

RINCENE

FOR LIQUID MATERIAL FOR CLEANING THE HAIR AFTER SHAMPOOING.
Claims use since Nov. 1, 1941.

Ser. No. 450,405. ROHM & HAAS COMPANY, Philadelphia, Pa. Filed Jan. 22, 1942.

ACRYLOID

FOR CHEMICALS USED IN THE MANUFACTURE OF LUBRICANTS AND HYDRAULIC FLUIDS.
Claims use since Sept. 16, 1940.

Ser. No. 450,445. CHARM-KURL COMPANY, St. Paul, Minn. Filed Jan. 24, 1942.

Charm-Kurl

Applicant disclaims the word "Kurl" apart from the mark.
FOR PERMANENT WAVE PREPARATION IN POWDER FORM.
Claims use since Mar. 27, 1941.

Ser. No. 450,447. COTY, INC., New York, N. Y. Filed Jan. 24, 1942.

Muguet des Bois

The word "Muguet" is disclaimed apart from the mark.
FOR FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS. LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES.
Claims use since Jan. 16, 1942.

Ser. No. 450,461. SCHERING CORPORATION, Bloomfield, N. J. Filed Jan. 24, 1942.

PROMOTRON

FOR MEDICINAL PREPARATION RECOMMENDED FOR THE TREATMENT OF DISORDERS OF THE MALE SEX GLANDS.
Claims use since Jan. 16, 1942.

Ser. No. 450,515. NEAR'S FOOD CO., INC., Binghamton, N. Y. Filed Jan. 27, 1942.

DIJEX-TONE

FOR DIGESTIVE TONICS AND MINERAL SUPPLEMENTS FOR ANIMAL AND POULTRY.
Claims use since Oct. 1, 1941.

Ser. No. 450,657. NATIONAL ALUMINATE CORPORATION, Chicago, Ill. Filed Feb. 2, 1942.

Isogel

FOR CHEMICAL COMPOSITIONS USED IN THE SIZING AND IMPROVEMENT OF CELLULOSIC PRODUCTS.
Claims use since Jan. 15, 1942.

Ser. No. 450,658. NATIONAL ALUMINATE CORPORATION, Chicago, Ill. Filed Feb. 2, 1942.

SIZOGEL

FOR CHEMICAL COMPOSITIONS USED IN THE SIZING AND IMPROVEMENT OF CELLULOSIC PRODUCTS.
Claims use since Jan. 15, 1942.

Ser. No. 450,683. W. H. PLUNKETT, doing business as Plunkett Chemical Company, Chicago, Ill. Filed Feb. 3, 1942.

BUG-NO

No claim is made to the term "Bug" apart from the mark.
FOR INSECTICIDE.
Claims use since June 1, 1920.

Ser. No. 450,692. W. H. PLUNKETT, doing business as Plunkett Chemical Company, Chicago, Ill. Filed Feb. 3, 1942.

RAT-NO

No claim is made to the term "Rat" apart from the mark.
FOR RODENTICIDE.
Claims use since June 1, 1920.

Ser. No. 450,842. FRANK WENZ, doing business as Frank Wenz Company, Chicago, Ill. Filed Feb. 7, 1942.



FOR MINERAL SALTLICK STONE FOR LIVESTOCK CONTAINING SULPHATE OF FERRO OXIDE, SULPHUR, PHOSPHATES OF SODIUM, MAGNESIUM, AND POTASSIUM, CARBONATE OF LIME, IODINE, AND CALCIUM CHLORIDE.
Claims use since Aug. 6, 1939.

Ser. No. 450,921. HELENA RUBINSTEIN, INC., New York, N. Y. Filed Feb. 12, 1942.

COCHIN-ELLE

FOR LIPSTICKS.
Claims use since Jan. 27, 1942.

Ser. No. 451,036. THE GREAT ATLANTIC & PACIFIC TEA COMPANY, New York, N. Y. Filed Feb. 17, 1942.

WHITE SAIL

FOR LAUNDRY STARCH.
Claims use since Jan. 28, 1941.

Ser. No. 451,041. SUCRO-BLANC, INC., New York, N. Y. Filed Feb. 17, 1942.

SUCROCEL

FOR THERMALLY ACTIVATED BAUXITE FOR ADSORPTIVE DECOLORIZATION.
Claims use since October, 1940.

Ser. No. 451,061. SUZANNE TARDY, doing business as French Art Silk Creations Co., New York, N. Y. Filed Feb. 18, 1942.

d'Orsac

FOR PERFUMES.
Claims use since Dec. 5, 1941.

Ser. No. 451,079. GILDA AUDREY PRODUCTS, INC., New York, N. Y. Filed Feb. 19, 1942.

PROSHEEN

FOR HAIR CREAMS—NAMELY, RECONDITIONING CREAM FOR HAIR.
Claims use since Feb. 3, 1941.

Ser. No. 451,104. JOHN T. ENSMINGER, doing business as The Scintillation Co., Chicago, Ill. Filed Feb. 20, 1942.

SCINTILLATION

FOR EYE LOTION.
Claims use since Apr. 26, 1941.

Ser. No. 451,113. NADIN, INC., Los Angeles, Calif. Filed Feb. 20, 1942.

TAY



FOR ASTRINGENT HYGIENIC POWDER USED FOR DOUCHE SOLUTION.
Claims use since Jan. 15, 1942.

Ser. No. 451,165. DUGAS ENGINEERING CORPORATION, Marinette, Wis. Filed Feb. 23, 1942.

duMag

FOR DRY EXTINGUISHING COMPOUND FOR MAGNESIUM, POTASSIUM, SODIUM, ALUMINUM, ZINC, IRON, AND OTHER METAL FIRES, INCENDIARIES, AND BURNING INFLAMMABLE MATERIALS.
Claims use since Feb. 16, 1942.

Ser. No. 451,191. HILMA O. SAUER, Parma, Ohio. Filed Feb. 24, 1942.

B's

FOR PILE POMADE.
Claims use since Feb. 2, 1925.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 449,989. THE GENERAL MATCH COMPANY, Reading, Ohio. Filed Jan. 5, 1942.

REAL-LITE

No claim is made to the term "Lite" except as shown.
FOR MATCHES.
Claims use since 1934.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 449,984. JOHN J. WIDMAYER, doing business as Widmayer Steel Company, Washington, D. C. Filed Jan. 3, 1942.

FIBERCRETE

FOR BUILDING BLOCK FOR PLASTIC FLOORS OR ROOFS.
Claims use since Aug. 27, 1941.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 450,826. CHEMEX CORPORATION, New York, N. Y. Filed Feb. 7, 1942.

CHEMEX

FOR COFFEE MAKERS.
Claims use since Jan. 12, 1941.

Ser. No. 450,849. FLEETWINGS, INCORPORATED, Bristol, Pa. Filed Feb. 9, 1942.

FLEETWINGS

FOR HYDRAULIC VALVES.
Claims use since September, 1939.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 450,739. KLOSTER STEEL CORPORATION, Chicago, Ill. Filed Feb. 4, 1942.

V-76

FOR DIE AND TOOL STEEL.
Claims use since August, 1936.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 445,331. PLASKON COMPANY, INCORPORATED, Toledo, Ohio. Filed July 14, 1941.

PLASKON

FOR LACQUERS, LACQUER RESINS, PAINT ENAMELS, BAKING ENAMELS, AND PAINTS IN DRY FORM AND IN PASTE FORM.
Claims use since May 4, 1938.

Ser. No. 448,023. THE WILBUR & WILLIAMS COMPANY, Boston, Mass. Filed Oct. 22, 1941.

CHECKMATE

FOR PAINT SOLD IN DRY, PASTE, OR READY MIXED FORM.
Claims use since Jan. 1, 1940.

Ser. No. 449,020. RED SPOT PAINT & VARNISH CO., INC., Evansville, Ind. Filed Nov. 28, 1941.

AQUOTE

FOR PROTECTIVE COATING IN THE NATURE OF A PAINT USED AS A WATER REPELLENT AND NON-CORROSIVE COATING FOR STRUCTURAL STEEL BRIDGES, AND STEEL WATER TANKS, HAVING INCIDENTAL PROPERTIES AS A WATER-PROOFING AND DAMPPROOFING COATING FOR CONCRETE, PLASTER, AND MASONRY WALLS, AS A PLASTER BONDING COAT, AND FOR MASONRY PAINT.
Claims use since June, 1939.

Ser. No. 449,302. ALEXANDER STROBL, doing business as Stroblite Company, New York, N. Y. Filed Dec. 8, 1941.

STROBLITE

FOR PHOSPHORESCENT AND FLUORESCENT LACQUERS, PAINTS, AND PAINT PIGMENTS.
Claims use since Jan. 1, 1926.

Ser. No. 449,303. ALEXANDER STROBL, doing business as WTP, New York, N. Y. Filed Dec. 8, 1941.

W. T. P.

FOR PHOSPHORESCENT AND FLUORESCENT LACQUERS, PAINTS, AND PAINT PIGMENTS.
Claims use since Nov. 9, 1941.

Ser. No. 449,468. TECHNICAL COLOR & CHEMICAL WORKS, INC., Brooklyn, N. Y. Filed Dec. 13, 1941.

RED-DEVIL

FOR PAINTS AND ENAMELS—NAMELY, FLOOR, DECK, FLAT, GLOSS, INTERIOR, EXTERIOR, ASPHALTUM, STIPPLE, QUICK DRYING AND ALUMINUM PAINTS AND ENAMELS; EXTERIOR AND INTERIOR VARNISHES; PAINT AND VARNISH REMOVER; OIL STAINS, VARNISH STAINS AND PENETRATING STAINS; PAINT PIGMENTS AND PAINT OILS; LACQUERS; PREPARED, FINISHED SHELLACS AND SHELLAC VARNISHES, AND POLISHES — NAMELY, PREPARED FURNITURE PASTE, NO RUBBING FLOOR AND FURNITURE, PASTE WAX-WOOD, WAX, AND AUTO POLISHES.
Claims use since May, 1917.

Ser. No. 449,469. TECHNICAL COLOR & CHEMICAL WORKS, INC., Brooklyn, N. Y. Filed Dec. 13, 1941.



RED-DEVIL

FOR PAINTS AND ENAMELS—NAMELY, FLOOR, DECK, FLAT, GLOSS, INTERIOR, EXTERIOR, ASPHALTUM, STIPPLE, QUICK DRYING AND ALUMINUM PAINTS AND ENAMELS; EXTERIOR AND INTERIOR VARNISHES; PAINT AND VARNISH REMOVER; OIL STAINS, VARNISH STAINS AND PENETRATING STAINS; PAINT PIGMENTS AND PAINT OILS; LACQUERS; PREPARED, FINISHED SHELLACS AND SHELLAC VARNISHES, AND POLISHES — NAMELY, PREPARED FURNITURE PASTE, NO RUBBING FLOOR AND FURNITURE, PASTE WAX-WOOD, WAX, AND AUTO POLISHES.
Claims use since Jan. 1, 1934.

Ser. No. 450,925. GEORGE G. WALTERS, doing business as The Harrison Paint & Varnish Company, Canton, Ohio. Filed Feb. 12, 1942.

Artisan

FOR READY MIXED OIL PAINTS, PAINT ENAMELS, AND VARNISH.
Claims use since Jan. 28, 1942.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 439,353. MICRO SWITCH CORPORATION, Freeport, Ill. Filed Jan. 2, 1941.

MS

FOR ELECTRIC SWITCHES, ACTUATOR MECHANISMS FOR ELECTRIC SWITCHES, HOUSINGS FOR ELECTRIC SWITCHES, OVERLOAD AND OVERHEAT PROTECTORS FOR ELECTRIC MOTORS, AND CIRCUIT CONTROLLING PROTECTORS FOR ELECTRIC APPARATUS, APPLIANCES, AND POWER TRANSLATING DEVICES.
Claims use on electric switches and housings for electric switches since Dec. 1, 1937; on overload and overheat protectors for electric motors, and circuit controlling protectors for electric apparatus, appliances, and power translating devices since May 28, 1939; and on actuator mechanisms for electric switches since Dec. 27, 1939.

Ser. No. 439,355. MICRO SWITCH CORPORATION, Freeport, Ill. Filed Jan. 2, 1941.

KALPER

FOR ELECTRIC SWITCHES.
Claims use since July 25, 1938.

Ser. No. 444,760. THE A. C. GILBERT COMPANY, New Haven, Conn. Filed June 23, 1941.

"CHOO-CHOO"

FOR ELECTRICALLY OPERATED OR ELECTRICALLY CONTROLLED APPARATUS AND PARTS THEREOF FOR INSTALLATION AS A UNIT IN HOLLOW TOY ARTICLES ADAPTED TO PRODUCE THEREIN ANIMATING ILLUSIONS OF SIGHT AND/OR SOUND.
Claims use since May 22, 1941.

Ser. No. 445,714. CALLITE TUNGSTEN CORPORATION, Union City, N. J. Filed July 29, 1941.

CALLITE TUNGSTEN CORPORATION CTC

The words "Tungsten Corporation" are disclaimed apart from the mark.
FOR ELECTRIC CONTACTS, ELECTRIC TUBE AND LAMP WELDS, FLUORESCENT POWDERS AND SOLUTIONS FOR TREATMENT OF INTERNAL SURFACES OF ELECTRIC DISCHARGE TUBES AND LAMPS, LEAD WIRES, ELECTRODES AND TUBING FOR ELECTRIC DISCHARGE LAMPS AND TUBES; ELECTRIC SPOT WELDERS AND WELDING TIMERS.
Claims use since Sept. 15, 1940.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 445,490. DELAWARE MACHINERY CORPORATION, New York, N. Y. Filed July 19, 1941.

DELMACO

FOR METAL WORKING MACHINERY—NAMELY, LATHES, SHAPERS, MILLING MACHINES, AND ESPECIALLY THREAD MILLING MACHINES, ADAPTED FOR HANDLING POROUS AND NON-POROUS METALS, PLASTICS AND OTHER MATERIALS.
Claims use since June 15, 1941.

Ser. No. 448,017. THE TOLEDO STEEL PRODUCTS COMPANY, Toledo, Ohio. Filed Oct. 22, 1941.



FOR INTERNAL COMBUSTION ENGINE PISTONS, INTERNAL COMBUSTION ENGINE PISTON PINS, INTERNAL COMBUSTION ENGINE BEARINGS, VEHICLE WHEEL ALIGNERS, AND INTERNAL COMBUSTION ENGINE CONNECTING RODS.

Claims use on internal combustion engine pistons since May, 1936; on internal combustion engine piston pins since May, 1936; on internal combustion engine bearings since April, 1939; on internal combustion engine connecting rods since January, 1941; and on wheel aligners since January, 1941.

Ser. No. 450,581. ALLIS-CHALMERS MANUFACTURING COMPANY, Milwaukee, Wis. Filed Jan. 30, 1942.

TEXVERSE

FOR POWER TRANSMISSION MACHINERY COMPRISING ROTARY SHEAVES.

Claims use since Apr. 29, 1941.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 449,789. TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y. Filed Dec. 26, 1941.

ALTIGUIDE

FOR ALTIMETERS.

Claims use since Sept. 18, 1941.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 449,136. IDE JEWELRY CO., INC., New York, N. Y. Filed Dec. 3, 1941.



FOR WATCH CASES MADE OF PRECIOUS METAL.

Claims use since Oct. 18, 1941.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 448,699. STANLEY MALANOWSKI, Tampa, Fla. Filed Nov. 17, 1941.

STANLEY SYSTEM Refinol TAMPA, FLA.

The words "Stanley," "System" and "Tampa, Fla." are disclaimed apart from the mark.

FOR OIL FILTERS.

Claims use since Feb. 1, 1938.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 450,794. DANIEL FORBES EBBERT, Wheeling, W. Va. Filed Feb. 6, 1942.

"PRIORITY"

FOR CHAIRS AND FOLDING BEDS.

Claims use since Dec. 26, 1941.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

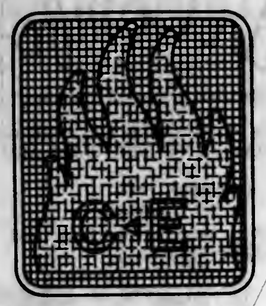
Ser. No. 443,402. COMBUSTION ENGINEERING COMPANY, INC., Wilmington, Del., and New York, N. Y. Filed May 9, 1941.

C-E

FOR STEAM GENERATING BOILERS, BOILER FURNACE WATER WALLS UTILIZING PLAIN TUBES, BOILER FURNACE WATER WALLS UTILIZING FIN TUBES, FUEL STOKERS, AIR PREHEATERS, ECONOMIZERS (FEED WATER HEATERS), MATERIAL DRYING UNITS, CHEMICAL RECOVERY UNITS WHEREIN THE CHEMICAL IS RECOVERED IN A HEARTH OR FURNACE, AND PARTS THEREOF.

Claims use on steam generating boilers since July, 1935; on boiler furnace water walls utilizing plain tubes since July, 1931; on boiler furnace water walls utilizing fin tubes since July, 1928; on fuel stokers since July, 1929; on air preheaters since July, 1928; on economizers since July, 1928; on material drying units since December, 1935; and on chemical recovery units since March, 1935.

Ser. No. 443,403. COMBUSTION ENGINEERING COMPANY, INC., New York, N. Y. Filed May 9, 1941.



FOR STEAM GENERATING BOILERS, WATER COOLED FURNACE WALLS, PULVERIZED FUEL BURNERS, AND FUEL STOKERS, AND PARTS THEREOF.

Claims use on steam generating boilers, water cooled furnace walls, pulverized fuel burners since December, 1937; and in connection with fuel stokers since June, 1938.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 447,288. THE B. F. GOODRICH COMPANY, New York, N. Y., and Akron, Ohio. Filed Sept. 24, 1941.

BFG 1870

FOR FAN BELTS, TRANSMISSION BELTS, CONVEYOR BELTS, RADIATOR HOSE, CAR WASHING HOSE, GARDEN HOSE, AIR AND STEAM HOSE, MOLDED PACKING WASHERS FORMED OF HEAT PLASTICS, SUCH AS RUBBER AND/OR SYNTHETIC RUBBER-LIKE MATERIALS AND/OR FIBROUS REINFORCING MATERIALS, ASBESTOS SHEET PACKING, PNEUMATIC TIRE CASINGS OF RUBBER AND FABRIC FOR AUTOMOBILES AND BICYCLES, INNER TUBES THEREFOR, CORD AIR PRESSURE BAGS FOR REPAIRING PNEUMATIC TIRE CASINGS, RUBBER VALVES, TIRE FLAPS, TUBE REPAIR OUTFITS, TUBE VULCANIZING KITS, NAIL HOLE PATCHES, VALVE PATCHES, VALVE PADS, REPAIR UNITS OR TIRE BLOW-OUT PATCHES OF FABRIC AND RUBBER, TIRE REPAIR FABRIC AND REPAIR GUMS.

Claims use since Mar. 1, 1941.

Ser. No. 450,967. THE KELLY-SPRINGFIELD TIRE COMPANY, Cumberland, Md. Filed Feb. 14, 1942.

RPH

FOR TIRES COMPOSED WHOLLY OR PRINCIPALLY OF RUBBER.

Claims use since Jan. 30, 1942.

CLASS 37

PAPER AND STATIONERY

Ser. No. 450,076. PAPER MANUFACTURERS CO., Philadelphia, Pa. Filed Jan. 8, 1942.

PAMACO

FOR TELEGRAPH PAPER TAPE.

Claims use since Feb. 1, 1941.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 449,248. THE BAERS, Chicago, Ill. Filed Dec. 8, 1941.

THE TOODLE FAMILY

FOR COMIC STRIP.

Claims use since Dec. 4, 1941.

Ser. No. 449,512. THE BAERS, Chicago, Ill. Filed Dec. 16, 1941.

The Toodles

FOR COMIC STRIP.

Claims use since Dec. 14, 1941.

Ser. No. 450,983. BUFORD ALEXANDER LYNCH, Washington, D. C. Filed Feb. 14, 1942.

SALUTE TO VALOR

FOR NEWSPAPER COLUMN.

Claims use since Feb. 12, 1942.

Ser. No. 451,015. NORCROSS, New York, N. Y. Filed Feb. 16, 1942.

LANKY LIL

FOR GREETING CARDS.

Claims use since Feb. 3, 1942.

CLASS 39

CLOTHING

Ser. No. 426,714. SPORTOWNE COAT CO. INC., New York, N. Y. Filed Dec. 18, 1939.

Sparkelite TWEED

The word "Tweed" is disclaimed apart from the mark.
FOR LADIES' AND MISSES' COATS AND SUITS.
Claims use since Nov. 1, 1939.

Ser. No. 439,757. LOEWENSTEIN BROS. INC., New York, N. Y. Filed Jan. 17, 1941.

Ellbi

FOR WOMEN'S NECKWEAR, WOMEN'S COLLARS AND CUFFS AND COLLARS AND RUFFS OR NECK RUFFLES AND SLEEVE OR CUFF RUFFLES MADE OUT OF RUFFLINGS FOR WOMEN'S WAISTS AND BLOUSES.
Claims use since Jan. 13, 1941.

Ser. No. 439,879. CHESTER H. ROTH CO., INC., New York, N. Y. Filed Jan. 22, 1941.

KEMILON

FOR HOSIERY.
Claims use since Dec. 20, 1940.

Ser. No. 440,051. LEIGHTON HATS, INC., New York, N. Y. Filed Jan. 28, 1941.

The Champagne of Felt

No claim is made to the word "Felt" except in connection with the complete mark.
FOR LADIES' HATS.
Claims use since Nov. 15, 1940.

Ser. No. 440,130. NATIONAL SHIRT SHOPS OF DELAWARE, INC., New York, N. Y. Filed Jan. 30, 1941.

VIKING

COAST TO COAST

FOR HABERDASHERY — NAMELY, NEGLIGEE SHIRTS.
Claims use since 1930.

Ser. No. 443,984. MEYER MARGOLIN, doing business as Resilient Insole Co., Elgin, Ill. Filed May 27, 1941.

Air Comfort

Applicant disclaims the word "Comfort" apart from the mark.
FOR SHOES COMPRISING LEATHER OR FABRIC, OR COMBINATIONS OF THE SAME AND INSOLES FOR SHOES.
Claims use since April, 1941.

Ser. No. 445,301. SELECT SPORTSWEAR, INC., New York, N. Y. Filed July 12, 1941.

Campus Trotter

FOR LADIES' AND MISSES' KNITTED SPORT SWEATERS AND TWO PIECE KNITTED DRESSES.
Claims use since June 2, 1941.

Ser. No. 445,845. WILLIAM F. FRETZ & SON, Doylestown, Pa. Filed Aug. 1, 1941.

Corteeka

FOR TROUSERS.
Claims use since Jan. 17, 1941.

Ser. No. 450,040. XANA INC., New York, N. Y. Filed Jan. 6, 1942.

Xana

FOR BRASSIERES, CORSETS, AND LADIES' NIGHTGOWNS.
Claims use since Dec. 1, 1940.

Ser. No. 450,452. H. LISSNER COMPANY, INC., Wilmington, Del., and New York, N. Y. Filed Jan. 24, 1942.

CORDALETA

FOR TROUSERS FOR MEN AND BOYS.
Claims use since Nov. 12, 1941.

Ser. No. 450,453. H. LISSNER COMPANY, INC., Wilmington, Del., and New York, N. Y. Filed Jan. 24, 1942.

Palameta

FOR TROUSERS FOR MEN AND BOYS.
Claims use since Nov. 12, 1941.

Ser. No. 450,538. ENDICOTT JOHNSON CORPORATION, Endicott, N. Y. Filed Jan. 28, 1942.

BAR OF QUALITY

The word "Quality" is claimed only in the association shown.
FOR LEATHER BOOTS AND SHOES FOR MEN, WOMEN, YOUTHS, BOYS, AND CHILDREN.
Claims use since May 1, 1905.

Ser. No. 450,698. JACOB SIEGEL COMPANY, Philadelphia, Pa. Filed Feb. 3, 1942.

Regis Rex

FOR MEN'S TOPCOATS AND OVERCOATS.
Claims use since Jan. 2, 1934.

Ser. No. 450,804. LORTOGS, INC., New York, N. Y. Filed Feb. 6, 1942.

SLAK-HAPPY

The word "Slak" is disclaimed apart from the mark.
FOR WOMEN'S, LADIES', MISSES', AND GIRLS' SLACKS.
Claims use since Jan. 2, 1942.

Ser. No. 450,862. H. T. POINDEXTER AND SONS MERCHANDISE COMPANY, Kansas City, Mo. Filed Feb. 9, 1942.

Poincrest

FOR HOSIERY.
Claims use since July 27, 1940.

Ser. No. 450,871. S. WEITZ & CO., INC., Cleveland, Ohio. Filed Feb. 9, 1942.

Palatone

FOR MEN'S TOPCOATS, OVERCOATS, AND SUITS.
Claims use since August, 1940.

Ser. No. 450,953. CHENEY BROTHERS, Manchester, Conn., and New York, N. Y. Filed Feb. 14, 1942.

MACCLETWIST

FOR NECKTIES.
Claims use since Nov. 13, 1941.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 447,585. METALTEX INC., New York, N. Y. Filed Oct. 6, 1941.

CLEARTEX

FOR TOILET SETS AND DRESSER SETS COMPRISING COMBS, BRUSHES, MIRRORS, MANICURE TOOLS, CIGARETTE CASES, SHOE HORNS, PICTURE FRAMES, POWDER CONTAINERS, JEWELRY BOXES, COSMETIC CONTAINERS, CLOCKS, TRAYS, DRESSER LAMPS, TISSUE PAPER CONTAINERS, ALL TRIMMED OR BACKED WITH THERMOPLASTIC MATERIAL.
Claims use since May 27, 1941.

Ser. No. 449,751. HAMILTON C. BATES, doing business as C. J. Bates & Son, Chester, Conn. Filed Dec. 26, 1941.



Trade-mark consists in a blue colored cap on the free end of the handle of the crochet hook. Applicant disclaims the picture of the goods per se.
FOR CROCHET HOOKS FOR HAND USE.
Claims use since Aug. 15, 1938.

Ser. No. 449,752. HAMILTON C. BATES, doing business as C. J. Bates & Son, Chester, Conn. Filed Dec. 26, 1941.



Trade-mark consists in a red colored cap on the free end of the handle of the crochet hook. Applicant disclaims the picture of the goods per se.

FOR CROCHET HOOKS FOR HAND USE.

Claims use since Aug. 15, 1938.

Ser. No. 449,753. HAMILTON C. BATES, doing business as C. J. Bates & Son, Chester, Conn. Filed Dec. 26, 1941.



Trade-mark consists in a green colored cap on the free end of the handle of the crochet hook. Applicant disclaims the picture of the goods per se.

FOR CROCHET HOOKS FOR HAND USE.

Claims use since Aug. 15, 1938.

Ser. No. 449,754. HAMILTON C. BATES, doing business as C. J. Bates & Son, Chester, Conn. Filed Dec. 26, 1941.



Trade-mark consists in a yellow colored cap on the free end of the handle of the crochet hook. Applicant disclaims the picture of the goods per se.

FOR CROCHET HOOKS FOR HAND USE.

Claims use since Aug. 15, 1938.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 449,934. I. ZENDMAN, INC., New York, N. Y. Filed Dec. 31, 1941.

Lady Carol Lace

The word "Lace" is disclaimed apart from the mark.

FOR LACES IN THE PIECE.

Claims use since Feb. 1, 1941.

CLASS 43

THREAD AND YARN

Ser. No. 450,916. AMERICAN VISCOSE CORPORATION, Wilmington, Del. Filed Feb. 12, 1942.

SERANET

FOR YARNS, THREADS AND YARN AND THREAD FILAMENTS.

Claims use since Jan. 27, 1942.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 450,364. HENRY LERER, doing business as Medical Aid Supply Company, New York, N. Y. Filed Jan. 21, 1942.

RVL

The mark consists of the letters RVL.

FOR FIRST AID KITS AND BANDAGES CONTAINED AND SOLD IN DISPENSERS.

Claims use since Dec. 12, 1940.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 448,613. HOMIX PRODUCTS, INC., New York, N. Y. Filed Nov. 13, 1941.

'TIS

FOR NON-ALCOHOLIC BEVERAGES SOLD AS SOFT DRINKS, FRUIT JUICE, SIRUP AND EXTRACTS FOR MAKING THE SAME.

Claims use since Oct. 25, 1940.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 438,509. A. KRASNE, INC., New York, N. Y., now by change of name Krasdale Foods, Inc. Filed Dec. 4, 1940.



No claim is made to any wording except "Krasdale" or to the representation of a label per se. The drawing is lined for gold.

FOR CANNED FRUITS, CANNED FRUIT JUICES, CANNED VEGETABLES, CANNED VEGETABLE JUICES, CANNED FISH, CANNED SHELLFISH, CANNED POULTRY, CANNED SPAGHETTI, CANNED SOUPS; OLIVES, WHEAT FLOUR, AND APPLE SAUCE.

Claims use since May, 1940.

Ser. No. 443,305. SOUTHERN FROSTED FOODS, INC., Birmingham, Ala., assignor to Birmingham Ice & Cold Storage Company. Filed May 6, 1941.

Vita Froze

Applicant disclaims the term "Froze" apart from the mark.

FOR FROZEN FRUITS.

Claims use since April, 1939.

Ser. No. 443,306. SPENCER KELLOGG AND SONS, INC., Buffalo, N. Y. Filed May 6, 1941.

SOYEX

FOR FLOUR—NAMELY, SOYA BEAN FLOUR.

Claims use since Feb. 1, 1941.

Ser. No. 444,272. NATIONAL BISCUIT COMPANY, New York, N. Y. Filed June 6, 1941.

4-PLUS

FOR PASTRY CUPS FOR SERVING ICE CREAM, CUSTARDS, AND OTHER FOODS.

Claims use since Mar. 6, 1941.

Ser. No. 447,402. ORCHARD PRODUCTS CO., Chicago, Ill. Filed Sept. 29, 1941.

ORCHARD MAID

B-MINE

Applicant disclaims the letter "B" apart from the mark.

FOR NUTRITIOUS FOOD IN BAR FORM CONTAINING DEXTROSE, RASPBERRIES, SUGAR, COCOA, YEAST, AND FLAVORING.

Claims use since Sept. 12, 1941.

Ser. No. 447,956. SAN FERNANDO CITRUS ASSOCIATION, San Fernando, Calif. Filed Oct. 20, 1941.

POW-WOW

FOR FRESH CITRUS FRUIT.

Claims use since Dec. 31, 1915.

Ser. No. 448,309. TEXAS CONSUMERS CO., INC., Galveston, Tex. Filed Oct. 31, 1941.

AUNT SUSAN'S

FOR TEA, COFFEE, HOT CATSUP, CHILI MIX POWDER, COCKTAIL SAUCE, OLIVE OIL, WORCESTERSHIRE SAUCE, CHOW CHOW, SOUR ONIONS, BOTTLED PEPPERS, SPANISH OLIVES, PEANUT BUTTER, RELISH SPREAD, HOT RELISH, CELERY SALAD, MAYONNAISE, SALAD DRESSING, MUSTARD, CATSUP, BARBECUE SAUCE, CHILI SAUCE, HOT SAUCE, SALAD OIL, AND VANILLA EXTRACT, FOR FOOD PURPOSES, APPLE CIDER VINEGAR, PICKLED ONIONS, KOSHER STYLE PICKLES, CROSSCUT SWEET PICKLES, SWEET RELISH, AND PEANUT KRUMBLE SANDWICH SPREAD.

Claims use since 1900.

Ser. No. 449,488. KELLOGG COMPANY, Battle Creek, Mich. Filed Dec. 15, 1941.

KEL-CENTRATE

FOR FEED INGREDIENT OR SUPPLEMENT TO BE ADDED TO ANIMAL FEEDS TO AUGMENT THE VITAMIN AND MINERAL CONTENT THEREOF.

Claims use since June, 1941.

Ser. No. 449,640. COOPERATIVA NACIONAL DE PRODUCTORES DE LECHE, Montevideo, Uruguay. Filed Dec. 20, 1941.

Conaprole

No claim is made to the representation of the container apart from the mark.

FOR DAIRY PRODUCTS—NAMELY, CHEESES, BUTTER, FRESH CREAM, RAW MILK, PASTEURIZED MILK, CONDENSED MILK, EVAPORATED MILK,

MALTED MILK (IN LIQUID OR POWDERED FORM), POWDERED MILK, MILK CHOCOLATE, BUTTERMILK, ICE-CREAM, MATERNIZED MILK, MARGARINE, CHEESE SPREADS, MILK COCOA, CHOCOLATE FLAVORED MILK, CHOCOLATE MALTED MILK, CULTURED MILK, DRY SKIMMED MILK, IRRADIATED MILK, ICE CREAM MIX IN POWDERED FORM, FROZEN CONFECTIONS AND SYRUPS OR CONCENTRATES FOR MAKING THE SAME.
Claims use since Jan. 1, 1936.

Ser. No. 450,019. MIRAMAR TRADING CORPORATION, Brooklyn, N. Y. Filed Jan. 6, 1942.

Mirco

FOR WINE VINEGAR, SPICES, OLIVES, AND CANNED TOMATOES AND TOMATO PASTE.
Claims use since Dec. 9, 1941.

Ser. No. 450,038. WASHINGTON CO-OPERATIVE EGG AND POULTRY ASSOCIATION, Seattle, Wash. Filed Jan. 6, 1942.



The drawing is lined for red, blue, and yellow.
FOR DOG AND CAT FOOD.
Claims use since Oct. 27, 1941.

Ser. No. 450,039. WASHINGTON CO-OPERATIVE EGG AND POULTRY ASSOCIATION, Seattle, Wash. Filed Jan. 6, 1942.

BLUE EMBLEM

FOR DOG AND CAT FOOD.
Claims use since Oct. 27, 1941.

Ser. No. 450,257. D'ARRIGO BROTHERS COMPANY, San Jose, Calif. Filed Jan. 16, 1942.



The representation of the boy is fanciful.
FOR FRESH VEGETABLES—NAMELY, CELERY.
Claims use since November, 1941.

Ser. No. 450,262. MAURICE H. KUHN, Los Angeles, Calif. Filed Jan. 16, 1942.



The drawing is lined for yellow and red. No claim is made to the notation P'Nut But'r or to the representation of a label apart from the mark.
FOR CHOCOLATE FLAVORED PEANUT BUTTER SPREAD.
Claims use since Jan. 9, 1942.

Ser. No. 450,291. STANFORD FRUIT GROWERS, INC., Lake Alfred, Fla. Filed Jan. 17, 1942.



FOR FRESH CITRUS FRUITS.
Claims use since Sept. 1, 1939.

Ser. No. 450,508. TETSUO F. IWASAKI, doing business as Rancho Brokerage Co., Brawley, Calif. Filed Jan. 27, 1942.

SALAD ZEST

No claim is made to the word "Salad" apart from the mark.
FOR FRESH VEGETABLES.
Claims use since Jan. 16, 1942.

Ser. No. 450,878. GROCERY PRODUCTS MANUFACTURING CORPORATION, Union City, N. J., and West Chester, Pa. Filed Feb. 10, 1942.

B in B

FOR CANNED MUSHROOMS.
Claims use since Sept. 25, 1941.

Ser. No. 450,942. FRED W. RUSH, doing business as Fred W. Rush Co., Los Angeles, Calif. Filed Feb. 13, 1942.



The portrait is that of Robert Rush, minor son of the applicant.
FOR FRESH VEGETABLES.
Claims use since Jan. 4, 1941.

Ser. No. 450,943. FRED W. RUSH, doing business as Fred W. Rush Co., Los Angeles, Calif. Filed Feb. 13, 1942.



The picture is fanciful.
FOR FRESH VEGETABLES.
Claims use since Sept. 5, 1940.

Ser. No. 451,005. CRAFTON MUTUAL ORCHARDS, Mentone, Calif. Filed Feb. 16, 1942.

HOPE CHEST

FOR FRESH CITRUS FRUIT.
Claims use since Jan. 28, 1942.

Ser. No. 451,063. ALTON CANNING CO., Alton, N. Y. Filed Feb. 19, 1942.

ALTMORE

FOR CANNED FRUITS AND CANNED VEGETABLES.
Claims use since Jan. 2, 1942.

CLASS 47

WINES

Ser. No. 448,815. L. BAMBERGER & CO., Newark, N. J. Filed Nov. 22, 1941.

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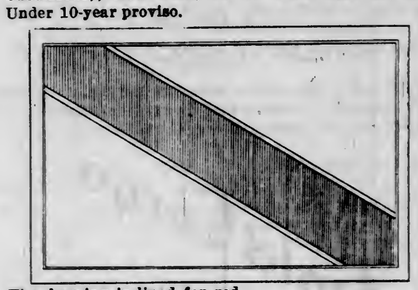
FOR WINES.
Claims use since Nov. 12, 1941.

Ser. No. 450,097. GEETING & FROMM, INC., Chicago, Ill. Filed Jan. 9, 1942.

DUC d'ORLEANS

The word "Orleans" is disclaimed apart from the mark.
FOR STILL AND SPARKLING WINES.
Claims use since Dec. 11, 1941.

Ser. No. 450,511. G. H. MUMM CHAMPAGNE AND ASSOCIATES INCORPORATED (Société Vinicole de Champagne, Successeur), New York, N. Y. Filed Jan. 27, 1942. Under 10-year proviso.



The drawing is lined for red.
FOR WINE.
Claims use since March, 1883.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 448,780. THE CARLING BREWERIES, LIMITED, Waterloo, Ontario, Canada. Filed Nov. 21, 1941.



The words "Double Hopped" are disclaimed apart from the mark.
FOR ALES, BEERS, LAGERS, PORTERS, AND STOUTS.
Claims use since Dec. 20, 1940.

Ser. No. 450,366. LIEBERT AND OBERT, Philadelphia, Pa. Filed Jan. 21, 1942.

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FOR BEER.
Claims use since Sept. 7, 1940.

Ser. No. 450,367. LIEBERT AND OBERT, Philadelphia, Pa. Filed Jan. 21, 1942.

namar

FOR ALE.
Claims use since Sept. 7, 1940.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 451,112. JOHN MCCLURE ESTATE, INC., doing business as The Burbank Winery, Los Angeles, Calif. Filed Feb. 20, 1942.

Gold Cargo

FOR BRANDY.
Claims use since Nov. 2, 1936.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 440,035. ANGIOLO TREVES, DARIO TREVES, AND VITTORIO OVAZZA, Turin, Italy. Filed Jan. 28, 1941.

BETROFLEX

FOR RUBBER SUBSTITUTES AND RUBBER COMPOSITION MATERIAL IN SHEET OR BLOCK FORM MADE UP OF A MIXTURE OF RUBBER AND OTHER INGREDIENTS.
Claims use since Apr. 24, 1940.

Ser. No. 448,005. META-FOLD AWNING COMPANY, Bluffton, Ohio. Filed Oct. 22, 1941.

Meta-Fold

No claim is made to the word "Fold" apart from the mark.
FOR METAL AWNINGS.
Claims use since July, 1940.

Ser. No. 450,411. THE ALL-STYLES HANGER CO. INC., New York, N. Y. Filed Jan. 23, 1942.

DURAFORM

FOR GARMENT HANGERS.
Claims use since Dec. 22, 1941.

Ser. No. 450,562. THE A. S. BOYLE COMPANY, Jersey City, N. J. Filed Jan. 29, 1942.

Plasteele

FOR PLASTIC COMPOUND USED PRIMARILY FOR FILLING CAVITIES IN METAL BODIES.
Claims use since Oct. 2, 1941.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

APRIL 7, 1942

394,426. GLOVES MADE OF LEATHER. DENT, ALLCROFT & CO. LIMITED, London, England.
Filed October 22, 1938. Under 10-year proviso. Serial No. 411,947. PUBLISHED JANUARY 20, 1942. Class 39.

394,427. THERMOSTATIC ELECTRIC HEATING SYSTEM CONTROL UNITS, APPARATUS AND EQUIPMENT FOR INSPECTING CONTENTS OF BOTTLES BY MEANS OF PHOTOELECTRIC DEVICES, ELECTRON MICROSCOPES, LENS FOR ELECTRON MICROSCOPES, FILM MAKING KITS, AND PARTS THEREOF. RCA MANUFACTURING COMPANY, INC., Camden, N. J.
Filed June 27, 1940. Serial No. 433,447. PUBLISHED JANUARY 27, 1942. Class 26.

394,428. BELTS FOR OUTER WEAR, SUSPENDERS, AND GARTERS. M. SLIFKA & SONS, New York, N. Y.
Filed October 29, 1940. Serial No. 437,392. PUBLISHED JANUARY 20, 1942. Class 39.

394,429. NECKTIES. FRANK & MEYER NECKWEAR COMPANY, St. Louis, Mo.
Filed November 12, 1940. Serial No. 437,764. PUBLISHED JANUARY 14, 1941. Class 39.

394,430. ELECTRICAL CONTACTS. THE H. A. WILSON COMPANY, Newark, N. J.
Filed November 25, 1940. Serial No. 438,228. PUBLISHED JANUARY 27, 1942. Class 21.

394,431. HATS AND CAPS FOR MEN AND BOYS. BOWMAN HAT COMPANY, Knoxville, Tenn.
Filed December 21, 1940. Serial No. 439,069. PUBLISHED FEBRUARY 25, 1941. Class 39.

394,432. LADIES' UNDERWEAR, SLIPS, AND NIGHTGOWNS. JULIUS KAYSER & CO., New York, N. Y.
Filed January 31, 1941. Serial No. 440,166. PUBLISHED JULY 1, 1941. Class 39.

394,433. SHOES MADE OF LEATHER AND FABRIC AND COMBINATION THEREOF. LOUIS E. MASSEY, Washington, D. C.
Filed February 27, 1941. Serial No. 441,056. PUBLISHED JANUARY 20, 1942. Class 39.

394,434. MEN'S TOPCOATS, OVERCOATS, RAINCOATS, DRESS SUITS, TUXEDOS, SUITS, HATS, NECKTIES, SWEATERS, ETC. WOLF & DESSAUER COMPANY, Fort Wayne, Ind.
Filed April 4, 1941. Serial No. 442,295. PUBLISHED JANUARY 20, 1942. Class 39.

394,435. DEVICES FOR CRUSHING, SCREENING, AND LOADING AND HANDLING ROCK AND SIMILAR MATERIALS, PLANTS COMPRISING ASSEMBLIES OF SUCH DEVICES AND PARTS THEREOF. UNIVERSAL CRUSHER COMPANY, Cedar Rapids, Iowa.
Filed May 9, 1941. Serial No. 443,440. PUBLISHED JANUARY 27, 1942. Class 23.

394,436. DEVICES FOR CRUSHING, SCREENING, AND LOADING ROCK AND SIMILAR MATERIALS, PLANTS COMPRISING ASSEMBLIES OF SUCH DEVICES, AND PARTS THEREOF. UNIVERSAL CRUSHER COMPANY, Cedar Rapids, Iowa.
Filed May 9, 1941. Serial No. 443,441. PUBLISHED JANUARY 27, 1942. Class 23.

394,437. PIPE FITTINGS. THE WESTINGHOUSE AIR BRAKE COMPANY, Wilmerding, Pa.
Filed May 29, 1941. Serial No. 444,060. PUBLISHED JANUARY 27, 1942. Class 13.

394,438. FLUID PRESSURE ACTUATED BRAKE CYLINDERS, FLUID COMPRESSORS, LUBRICATOR UNITS, OIL CUPS, PUMPS, ETC. THE WESTINGHOUSE AIR BRAKE COMPANY, Wilmerding, Pa.
Filed May 31, 1941. Serial No. 444,112. PUBLISHED JANUARY 27, 1942. Class 23.

394,439. MACHINERY SHAFT COUPLINGS AND PARTS THEREOF. ROBERT A. SMITH, doing business as Smith & Serrell, Newark, N. J.
Filed June 30, 1941. Serial No. 444,982. PUBLISHED JANUARY 27, 1942. Class 23.

394,440. NATURAL MINERAL WATERS, NON-ALCOHOLIC MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND SYRUPS AND EXTRACTS FOR MAKING SOFT DRINKS. COMPANHIA ANTARCTICA PAULISTA, Sao Paulo, Brazil.
Filed July 7, 1941. Serial No. 445,133. PUBLISHED JANUARY 13, 1942. Class 45.

394,441. BEERS, PORTERS, AND ALES. COMPANHIA ANTARCTICA PAULISTA, Sao Paulo, Brazil.
Filed July 7, 1941. Serial No. 445,135. PUBLISHED JANUARY 13, 1942. Class 48.

394,442. ANTISEPTIC MOUTH WASH, COMPRISING MINERAL OIL, AGAR AND PHENATHALIN EMULSION, ETC. DRUG GUILD, INC., New York, N. Y.
Filed August 5, 1941. Serial No. 445,979. PUBLISHED JANUARY 13, 1942. Class 6.

394,443. SOCKETS FOR GAS FILLED ELECTRICALLY ENERGIZED LAMPS AND STARTERS FOR SUCH LAMPS. THE LLOYD PRODUCTS COMPANY, Providence, R. I.
Filed August 5, 1941. Serial No. 445,994. PUBLISHED JANUARY 27, 1942. Class 21.

394,444. BURNT CLAY USED IN THE CONSTRUCTION OF TENNIS COURTS. THE EN-TOUT-CAS COMPANY LIMITED, Leicester, England.
Filed August 6, 1941. Serial No. 446,022. PUBLISHED JANUARY 20, 1942. Class 12.

394,445. FISH MEAL USED AS AN INGREDIENT IN FEED FOR POULTRY AND OTHER DOMESTIC ANIMALS. J. HOWARD SMITH, New York, N. Y.
Filed August 8, 1941. Serial No. 446,090. PUBLISHED JANUARY 27, 1942. Class 46.

394,446. MEN'S SUITS, TOP COATS, OVERCOATS, HATS, SHIRTS, CRAVATS, LOUNGING ROBES, AND UNDERWEAR. TABIN-PEARLMAN CLOTHES, INC., New York, N. Y.
Filed August 26, 1941. Serial No. 446,556. PUBLISHED JANUARY 27, 1942. Class 39.

394,447. RADIO RECEIVING SETS AND PARTS THEREOF. D. RODITI & SONS, INC., New York, N. Y.
Filed August 28, 1941. Serial No. 446,634. PUBLISHED JANUARY 27, 1942. Class 21.

394,448. METAL SPRAY GUNS AND COMPONENT PARTS THEREOF. METALLIZING COMPANY OF AMERICA, INC., Chicago, Ill.
Filed September 8, 1941. Serial No. 446,886. PUBLISHED JANUARY 27, 1942. Class 23.

394,449. LADIES' HATS. NORTHERN STRAW WORKS, INC., Philadelphia, Pa.
Filed September 11, 1941. Serial No. 446,976. PUBLISHED JANUARY 20, 1942. Class 39.

394,450. LUBRICATING OIL. CONSUMERS OIL & BELTING COMPANY, INC., New York, N. Y.
Filed September 18, 1941. Serial No. 447,119. PUBLISHED JANUARY 20, 1942. Class 15.

394,451. SHIRT AND TROUSER ENSEMBLES, OVERALLS, COVERALLS, DUNGAREES, PANTS, COATS, JUMPERS, APRONS, CAPS, JACKETS, PLAY SUITS, SMOCKS, AND WASH SUITS FOR MEN, WOMEN, AND CHILDREN. COWDEN MANUFACTURING COMPANY, Kansas City, Mo.
Filed September 22, 1941. Serial No. 447,227. PUBLISHED JANUARY 20, 1942. Class 39.

394,452. ROPE COMPOSED OF MANILA AND OTHER FIBERS AND BINDER TWINE. THE HOOVEN & ALLISON COMPANY, Xenia, Ohio.
Filed September 26, 1941. Serial No. 447,333. PUBLISHED JANUARY 27, 1942. Class 7.

394,453. PHOTOGRAPHIC, MOVING PICTURE FILM, HAVING A SOUND TRACK, SOLD AS SUCH, AND BEING AN ELEMENT IN A GAME OF SKILL. GORDON HINES, Kansas City, Mo.
Filed September 29, 1941. Serial No. 447,393. PUBLISHED JANUARY 27, 1942. Class 26.

394,454. MEN'S HATS. ADAM HAT STORES, INC., New York, N. Y.
Filed September 30, 1941. Serial No. 447,414. PUBLISHED JANUARY 20, 1942. Class 39.

394,455. CRUSHED AND WHOLE FRUITS; FRUIT, NUT, MARSHMALLOW, FUDGE, BUTTERSCOTCH AND CARAMEL TOPPINGS USED FOR MAKING SUNDAES AND FOOD PRODUCTS, ETC. RICHARDSON CORPORATION, Rochester, N. Y.
Filed October 2, 1941. Serial No. 447,490. PUBLISHED JANUARY 27, 1942. Class 46.

394,456. ELECTRIC LIGHTING FIXTURES, PARTICULARLY FLUORESCENT INDUSTRIAL FIXTURES. DAY-BRITE LIGHTING, INC., St. Louis, Mo.
Filed October 6, 1941. Serial No. 447,557. PUBLISHED JANUARY 27, 1942. Class 21.

394,457. HAIR NETS. CONBRO PRODUCTS CO., New York, N. Y.
Filed October 9, 1941. Serial No. 447,630. PUBLISHED JANUARY 20, 1942. Class 39.

394,458. GOVERNORS OF THE VACUUM AND/OR VELOCITY OPERABLE TYPE AND SPARK CONTROLS OF DIFFERENTIAL PRESSURE OPERABLE TYPE FOR INTERNAL COMBUSTION ENGINES. PIERCE GOVERNOR COMPANY, Anderson, Ind.
Filed October 13, 1941. Serial No. 447,763. PUBLISHED JANUARY 27, 1942. Class 23.

394,459. ELECTRIC TYPEWRITER CARRIAGE SHIFT. WILLIAM T. ANDREWS, doing business as Andrews Industries, Stamford, Conn.
Filed October 15, 1941. Serial No. 447,786. PUBLISHED JANUARY 27, 1942. Class 23.

394,460. ZIRCONS AND ARTICLES OF JEWELRY SET OR MOUNTED WITH ZIRCONS, NOT INCLUDING WATCHES. KIMBERLY GEM CO., INC., New York, N. Y.
Filed October 17, 1941. Serial No. 447,880. PUBLISHED JANUARY 27, 1942. Class 28.

394,461. MEN'S AND BOYS' COATS, TOP COATS, SUITS, SLACKS, TROUSERS, AND SPORT JACKETS, BEING MADE EITHER WHOLLY OF WOOL OR COMBINATION OF COTTON, WOOL OR WORSTEDS. ALBERT TURNER, INC., New York, N. Y.
Filed October 17, 1941. Serial No. 447,898. PUBLISHED JANUARY 27, 1942. Class 39.

394,462. WHEAT FLOUR. ARKADELPHIA MILLING COMPANY, INCORPORATED, Arkadelphia, Ark.
Filed October 20, 1941. Serial No. 447,927. PUBLISHED JANUARY 27, 1942. Class 46.

394,463. DRILLS, BITS, AND REAMERS APPLICABLE TO MACHINE SHOP EQUIPMENT. JOHN E. SHAW, doing business as Shaw & Co., Los Angeles, Calif.
Filed October 20, 1941. Serial No. 447,958. PUBLISHED JANUARY 27, 1942. Class 23.

394,464. WOMEN'S, MISSES', AND CHILDREN'S SHOES MADE OF LEATHER, RUBBER, OR FABRIC AND/OR COMBINATIONS OF THESE MATERIALS, AND HOSIERY. SHOECRAFT, INC., New York, N. Y.
Filed October 23, 1941. Serial No. 448,064. PUBLISHED JANUARY 20, 1942. Class 39.

394,465. GIRLS' AND CHILDREN'S DRESSES, HATS, OUTERSKIRTS, LEATHER SHOES, PLAYSUITS, COATS, GLOVES OF LEATHER, FABRIC, AND COMBINATIONS THEREOF, AND SWEATERS. A. DE PINNA CO., INC., New York, N. Y.
Filed October 25, 1941. Serial No. 448,095. PUBLISHED JANUARY 20, 1942. Class 39.

394,466. ELECTRIC TOASTERS. PROCTOR & SCHWARTZ, INCORPORATED, Philadelphia, Pa.
Filed October 25, 1941. Serial No. 448,116. PUBLISHED JANUARY 27, 1942. Class 21.

394,467. CHILDREN'S, MISSES', AND GIRLS' SHOES OF LEATHER AND/OR CLOTH. THE CHESAPEAKE SHOE MFG. CO., Baltimore, Md.
Filed October 28, 1941. Serial No. 448,183. PUBLISHED JANUARY 20, 1942. Class 39.

394,468. COTTON AND RAYON PIECE GOODS. AMERICAN BLEACHED GOODS COMPANY, INC., New York, N. Y.
Filed October 29, 1941. Serial No. 448,215. PUBLISHED JANUARY 20, 1942. Class 42.

394,469. COTTON, RAYON, ACETATE, SPUN RAYON AND/OR SILK PIECE GOODS AND COMBINATION THEREOF. NATIONAL FABRICS CORPORATION, New York, N. Y.
Filed October 29, 1941. Serial No. 448,226. PUBLISHED JANUARY 20, 1942. Class 42.

394,470. THERMOSTATIC VALVES FOR HOT WATER HEATERS AND THE LIKE. THE TITAN VALVE AND MANUFACTURING COMPANY, Cleveland, Ohio.
Filed October 29, 1941. Serial No. 448,233. PUBLISHED JANUARY 27, 1942. Class 26.

394,471. INTERNAL COMBUSTION ENGINES AND FIRE-FIGHTING APPLIANCES—NAMELY, FIRE ENGINES AND TRAILER PUMPS. COVENTRY CLIMAX ENGINES LIMITED, Coventry, England.
Filed October 30, 1941. Serial No. 448,244. PUBLISHED JANUARY 27, 1942. Class 23.

394,472. CARVING SETS OF BASE METAL AND CUTLERY — NAMELY, KNIVES, FORKS, AND SPOONS OF BASE METAL. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed October 30, 1941. Serial No. 448,263. PUBLISHED JANUARY 27, 1942. Class 23.

394,473. COMBINED COMB AND PIN FOR SECURING HATS, BOWS, RIBBONS, FLOWERS, AND OTHER HAIR ORNAMENTS. DIADEM, INC., Leominster, Mass.
Filed October 31, 1941. Serial No. 448,287. PUBLISHED JANUARY 20, 1942. Class 40.

394,474. WOMEN'S, LADIES', AND MISSES' COATS, SUITS, AND JACKETS. A. DAVIS & SONS, INC., New York, N. Y.
Filed November 4, 1941. Serial No. 448,379. PUBLISHED JANUARY 27, 1942. Class 39.

394,475. VENETIAN BLIND METAL AND WOOD TASSELS, METAL HEADS AND BOXINGS, BRACKETS, PULLEYS, METAL WORM GEAR AND FRICTION TILT DEVICES, CORD LOCKS, PIN END CLIPS, GUDGEON PINS, GUIDE CHANNELS, AND HEAD CHAINS. THE GUARANTEE SPECIALTY MANUFACTURING CO., Cleveland, Ohio.
Filed November 7, 1941. Serial No. 448,453. PUBLISHED JANUARY 27, 1942. Class 13.

394,476. CIGARETTES AND SMOKING TOBACCO. THE AXTON-FISHER TOBACCO COMPANY, Louisville, Ky.
Filed November 8, 1941. Serial No. 448,466. PUBLISHED JANUARY 27, 1942. Class 17.

394,477. MITTS FOR MECHANICAL WORKERS. SOCONY-VACUUM OIL COMPANY, INCORPORATED, New York, N. Y.
Filed November 8, 1941. Serial No. 448,480. PUBLISHED JANUARY 20, 1942. Class 39.

394,478. BOTTOM HOLE PUMPS AND BOTTOM HOLE PLUNGERS FOR USE IN PUMPING FLUIDS FROM WELLS. OIL LIFT SUPPLY COMPANY, Greggton, Tex.
Filed November 10, 1941. Serial No. 448,517. PUBLISHED JANUARY 27, 1942. Class 23.

394,479. COMBINATION OF CORN OIL AND PEANUT OIL BLENDED WITH OLIVE OIL FOR USE IN SALAD DRESSINGS OR FOR OTHER FOOD PURPOSES. ROGOL DISTRIBUTORS, INC., Brooklyn, N. Y.
Filed November 10, 1941. Serial No. 448,525. PUBLISHED JANUARY 20, 1942. Class 46.

394,480. LADIES' AND MISSES' DRESSES, AND DRESS ENSEMBLES CONSISTING OF A DRESS AND JACKET BLOUSES. DARYL DRESS CO., St. Louis, Mo.
Filed November 13, 1941. Serial No. 448,603. PUBLISHED JANUARY 27, 1942. Class 39.

394,481. SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS THEREOF. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed November 14, 1941. Serial No. 448,656. PUBLISHED JANUARY 27, 1942. Class 39.

394,482. SHOES MADE OF LEATHER, FABRIC AND COMBINATIONS THEREOF. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed November 14, 1941. Serial No. 448,657. PUBLISHED JANUARY 27, 1942. Class 39.

394,483. BRASSIÈRES. HEDWIG, INC., New York, N. Y.
Filed November 18, 1941. Serial No. 448,730. PUBLISHED JANUARY 27, 1942. Class 39.

394,484. NECKTIES. STERN. MERRITT CO. INC., New York, N. Y.
Filed November 19, 1941. Serial No. 448,772. PUBLISHED JANUARY 27, 1942. Class 39.

394,485. FURNACE BOILERS. ABRAHAM KAMENETZKY, Brooklyn, N. Y.
Filed November 24, 1941. Serial No. 448,865. PUBLISHED JANUARY 27, 1942. Class 34.

394,486. WEARING APPAREL FOR MEN, WOMEN, AND CHILDREN—NAMELY, RAINCOATS, RAINCAPES, TOPCOATS, SPORTCOATS. MILTON H. SIEGEL, Baltimore, Md.
Filed November 24, 1941. Serial No. 448,877. PUBLISHED JANUARY 27, 1942. Class 39.

394,487. GASOLINE. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa.
Filed November 25, 1941. Serial No. 448,888. PUBLISHED JANUARY 20, 1942. Class 15.

394,488. REFRIGERATOR BAGS. HODGMAN RUBBER COMPANY, Framingham, Mass.
Filed November 25, 1941. Serial No. 448,907. PUBLISHED JANUARY 27, 1942. Class 2.

394,489. ELECTRICAL APPARATUS OF THE TELEGRAPHONE TYPE FOR RECORDING SPEECH AND OTHER SOUNDS ON A TAPE OF MAGNETIC MATERIAL AND FOR REPRODUCING THE SOUNDS SO RECORDED. WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y.
Filed November 25, 1941. Serial No. 448,928. PUBLISHED JANUARY 27, 1942. Class 21.

394,490. LEATHER TEXTILE APRONS. HENRY K. BARNES COMPANY, Salem, Mass.
Filed November 26, 1941. Serial No. 448,933. PUBLISHED JANUARY 27, 1942. Class 23.

394,491. CANNED FISH. SARDAMACK FISHERIES, INC., Wilmington, Calif.
Filed November 26, 1941. Serial No. 448,956. PUBLISHED JANUARY 20, 1942. Class 46.

394,492. TRAYS MADE OF BASE METAL AND PLASTIC MATERIAL FOR HOLDING HAIRPINS AND BOBBY PINS. ANABEL LARSON, Hoquiam, Wash.
Filed November 28, 1941. Serial No. 449,010. PUBLISHED JANUARY 27, 1942. Class 2.

394,493. RAZOR BLADES. WESTERN AUTO SUPPLY COMPANY, Los Angeles, Calif.
Filed November 28, 1941. Serial No. 449,030. PUBLISHED JANUARY 27, 1942. Class 23.

394,494. SLEEPING APPAREL FOR MEN, WOMEN, AND CHILDREN—NAMELY, PAJAMAS, AND GOWNS. RAYLASS CHAIN STORES, INC., New York, N. Y.
Filed November 29, 1941. Serial No. 449,068. PUBLISHED JANUARY 27, 1942. Class 39.

394,495. NON-FERROUS METAL AND ALLOY REMELTERS. UNITED AMERICAN METALS CORPORATION, Brooklyn, N. Y.
Filed November 29, 1941. Serial No. 449,070. PUBLISHED JANUARY 27, 1942. Class 34.

394,496. NON-FERROUS METAL AND ALLOY REMELTERS. UNITED AMERICAN METALS CORPORATION, Brooklyn, N. Y.
Filed November 29, 1941. Serial No. 449,071. PUBLISHED JANUARY 27, 1942. Class 34.

394,497. WOODEN BEDROOM FURNITURE. CAMDEN FURNITURE COMPANY, Camden, Ark.
Filed December 12, 1941. Serial No. 449,407. PUBLISHED JANUARY 27, 1942. Class 32.

394,498. MATERIAL FOR MAKING DENTURES, JACKETS, INLAYS, BRIDGES, VENEERS, AND TEETH. FRICKE & GETZ DENTAL MFG. CO., Chicago, Ill.
Filed December 15, 1941. Serial No. 449,485. PUBLISHED JANUARY 27, 1942. Class 44.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

394,499. (CLASS 37. PAPER AND STATIONERY.) PLASTIC BINDING CORPORATION, Chicago, Ill. Filed May 6, 1939. Serial No. 419,155.

PLASTIC

BINDER FOR BOOKS, BOOKLETS, PAMPHLETS, BROCHURES, MANUALS AND OTHER ASSEMBLIES OF MULTIPLE PAGES.
Claims use since January, 1937.

394,500. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CLARK EQUIPMENT COMPANY, Buchanan, Mich. Filed July 26, 1940. Serial No. 434,357.

CLARK

AUTOMATIC BOOSTER UNIT

FOR AUTOMATIC AUXILIARY EMERGENCY POWER INTERNAL COMBUSTION ENGINE UNITS FOR TRUCKS.
Claims use since May 29, 1940.

394,501. (CLASS 13. HARDWARE AND PLUMBING, AND STEAM-FITTING SUPPLIES.) THE FLETCHER ENAMEL COMPANY, Dunbar, W. Va. Filed Sept. 10, 1940. Serial No. 435,841.

ROASTWELL

FOR BASE METAL ROASTERS.
Claims use since July 15, 1940.

394,502. (CLASS 39. CLOTHING.) MILADY BRASSIÈRE & CORSET CO., INC., New York, N. Y. Filed Oct. 1, 1940. Serial No. 436,545.

"Ladyform"

FOR GIRDLES, CORSETS, FOUNDATION GARMENTS, BRASSIÈRES, AND BANDEAUS.
Claims use since Aug. 15, 1940.

394,503. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) A. C. MIRENTA, Tacoma, Wash. Filed Nov. 12, 1940. Serial No. 437,798.

RE-LEEF

FOR FOOT EXERCISES, NON-MEDICATED CORN PADS, AND TOE SEPARATORS.
Claims use since Jan. 15, 1935.

394,504. (CLASS 37. PAPER AND STATIONERY.) L. HYMAN & SONS, New York, N. Y. Filed Dec. 14, 1940. Serial No. 438,840.

HYGRADE

FOR PAPER PRODUCTS—NAMELY, PAPER TOWELS, BLOTTING PAPER, AND KRAFT PAPER.
Claims use since 1931.

394,505. (CLASS 39. CLOTHING.) VARDAMAN SHOE COMPANY, St. Louis, Mo. Filed Dec. 23, 1940. Serial No. 439,132.

Geo. Ineichen

FOR MEN'S, WOMEN'S, CHILDREN'S, AND INFANTS' SHOES OF LEATHER, FABRIC, RUBBER, AND COMBINATIONS THEREOF, LEATHER BELTS IN THE NATURE OF GARMENT ACCESSORIES, CUT-OUT PARTS OF SHOES OF LEATHER OR FABRIC, SHOE SOLES, AND SHOE HEELS.
Claims use since Dec. 1, 1940.

394,506. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FINGER LAKES HONEY PRODUCERS CO-OPERATIVE, INCORPORATED, Groton, N. Y. Filed Jan. 23, 1941. Serial No. 439,892.

BLOSSOMSWEET

FOR HONEY.
Claims use since Dec. 20, 1940.

394,507. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ACME PATENT DEVELOPMENT CORPORATION, Long Beach, Calif. Filed Jan. 27, 1941. Serial No. 439,981.

COOPER DIE-FORMED BASKET

FOR OIL WELL FISHING TOOL.
Claims use since Apr. 15, 1940.

394,508. (CLASS 39. CLOTHING.) E. R. MOORE COMPANY, Chicago, Ill. Filed Feb. 14, 1941. Serial No. 440,659.

TRU-SHRUNK

FOR GYMNASIUM SUITS, PLAY SUITS, CHOIR GOWNS, ACADEMIC GRADUATION CAPS AND GOWNS, MINISTERS' AND JUDGES' GOWNS.
Claims use since Jan. 25, 1941.

394,509. (CLASS 28. JEWELRY AND PRECIOUS METAL WARE.) HICKOK MANUFACTURING COMPANY, INC., Rochester, N. Y. Filed Feb. 21, 1941. Serial No. 440,861.

KRISTOL

FOR INITIALS OF PLASTIC MATERIAL SOLD AS SUCH FOR USE ON BUCKLES OF PRECIOUS METAL, NECKTIE CLIPS, KEY CHAINS, AND CUFF LINKS, SOLD AS SUCH FOR PERSONAL WEAR.
Claims use since Nov. 18, 1940.

394,510. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed Feb. 27, 1941. Serial No. 441,069.

FOR A MIXING SEALER TO BE USED IN CONNECTION WITH PAINTS AND ENAMELS.
Claims use since Jan. 20, 1941.

SPARTITE

394,511. (CLASS 37. PAPER AND STATIONERY.) VALLEY PAPER COMPANY, Holyoke, Mass. Filed Mar. 1, 1941. Serial No. 441,147.

STABILIZED PAPERS

FOR WRITING AND PRINTING PAPERS.
Claims use since Jan. 29, 1941.

394,512. (CLASS 39. CLOTHING.) TOPKEN GLOVE MANUFACTURING CORPORATION, New York, N. Y. Filed Mar. 19, 1941. Serial No. 441,715.

TOP-FIT

FOR LADIES' GLOVES MADE OF LEATHER, FABRIC, OR COMBINATIONS THEREOF.
Claims use since Dec. 12, 1940.

394,513. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GREAT LAKES VARNISH WORKS, INC., Chicago, Ill. Filed Mar. 20, 1941. Serial No. 441,731.

BI-KOTE

PRIMELESS SHEEN COATER

FOR READY MIXED PAINT.
Claims use since Dec. 19, 1940.

394,514. (CLASS 39. CLOTHING.) CHENEY BROTHERS, Manchester, Conn., and New York, N. Y. Filed Aug. 23, 1941. Serial No. 446,486.

AMERICAN GAME BIRDS

FOR NECKTIES.
Claims use since February, 1932.

394,515. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GIMBEL BROTHERS, INC., New York, N. Y. Filed Sept. 3, 1941. Serial No. 446,755.

Bramwell

FOR MUSLIN SHEETS AND PILLOW CASES, COTTON TERRY TOWELS, AND WASH CLOTHS; COTTON, WOOL, AND PART WOOL BLANKETS; AUTO ROBES MADE OF TEXTILE FABRICS, ALL TYPES OF COMFORTERS, COVERLETS, MATTRESS COVERS, BLANKET COVERS MADE OF TEXTILE FABRICS, MATTRESS PROTECTORS MADE OF TEXTILE FABRICS, DISH TOWELS, VELVET, COTTON, SILK, AND RAYON PIECE GOODS.
Claims use since Feb. 15, 1941.

394,516. (CLASS 39. CLOTHING.) ENDICOTT JOHNSON CORPORATION, Endicott, N. Y. Filed Oct. 17, 1941. Serial No. 447,875.

CAMPUS TRAMPERS

FOR SHOES OF LEATHER AND FABRIC AND COMBINATIONS OF BOTH.
Claims use since Feb. 5, 1941.

394,517. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE HECHT CO., also doing business as Hecht Bros., and as The Hub, Washington, D. C., Baltimore, Md., and New York, N. Y. Filed Nov. 17, 1941. Serial No. 448,695.

BROAD TEX

FOR RUGS.
Claims use since Jan. 27, 1941.

394,518. (CLASS 39. CLOTHING.) CAVENDISH TRADING CORP., New York, N. Y. Filed Dec. 12, 1941. Serial No. 449,408.

Kay Lynn

FOR WOMEN'S AND MISSES' COATS, SUITS, DRESSES, BLOUSES, OUTER SKIRTS, SWEATERS, SLIPS, GLOVES OF LEATHER AND FABRIC, SHOES OF LEATHER, FABRIC AND COMBINATIONS THEREOF, HATS, DRESSING ROBES, HOUSECOATS, BATHROBES, NEGLIGEES, PANTIES, GIRDLES, SHORTS FOR OUTERWEAR, BATHING SUITS, SLACKS, SWEAT SHIRTS, BEACHCOATS, HOSIERY, BELTS FOR OUTERWEAR, CULOTTES AND TENNIS SUITS, AND MEN'S AND BOYS' COATS, SUITS, TROUSERS, LUMBER JACKETS, OVERALLS, DRESS AND SPORT SHIRTS, SLACKS, SLACK ENSEMBLES, VESTS, HOSIERY, SHOES OF LEATHER, FABRIC, AND COMBINATIONS THEREOF, UNDERSHORTS, AND UNDERSHIRTS.

Claims use since June 5, 1940.

394,519. (CLASS 39. CLOTHING.) THE SUPERB GLOVE CO., Johnstown and New York, N. Y. Filed Dec. 12, 1941. Serial No. 449,440.



FOR MEN'S, WOMEN'S, AND CHILDREN'S GLOVES, OF LEATHER, FABRIC, AND COMBINATIONS THEREOF.

Claims use since Aug. 1, 1940.

394,520. (CLASS 39. CLOTHING.) THE MABLEY AND CAREW COMPANY, Cincinnati, Ohio. Filed Dec. 16, 1941. Serial No. 449,526.

Wexford

FOR MEN'S SUITS, OVERCOATS, AND HATS.

Claims use since October, 1939.

394,521. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ROYAL BEAD NOVELTY CO., INC., New York, N. Y. Filed Dec. 27, 1941. Serial No. 449,808.

MISS CAROL GAY



FOR NECKLACES, BRACELETS, AND BROOCH PINS.

Claims use since Sept. 9, 1940.

394,522. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SHIRLEY SILK CO., INC., New York, N. Y. Filed Dec. 27, 1941. Serial No. 449,812.

TAMPICO

FOR TEXTILE FABRICS IN THE PIECE, OF SILK, COTTON, RAYON, AND COMBINATIONS THEREOF.

Claims use since Dec. 2, 1940.

394,523. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) M. J. WHITTALL ASSOCIATES, INC., Worcester, Mass. Filed Dec. 27, 1941. Serial No. 449,816.

WHITTALL

BAS RELIEF

FOR CARPETS AND RUGS.

Claims use since June 19, 1939.

394,524. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THOMAS G. FORD, doing business as Van Buren Chemical Company, Chicago, Ill. Filed July 30, 1941. Serial No. 445,774.



FOR DETERGENTS USED IN CLEANING GLASS, PORCELAIN, ENAMEL, WOOD, STONE, AND PAINTED SURFACES AND THE LIKE, AND USED AS A LAUNDRY DETERGENT FOR FABRICS AND THE LIKE.

Claims use since Jan. 15, 1941.

394,525. (CLASS 19. VEHICLES NOT INCLUDING ENGINES.) LEE B. TORRENCE, doing business as Jobber's Distributing Company, St. Louis, Mo. Filed Jan. 13, 1942. Serial No. 450,188.

LEE-TEX

FOR AUTOMOBILE SEAT COVERS.

Claims use since Jan. 1, 1936.

394,526. (CLASS 39. CLOTHING.) LAROS TEXTILES COMPANY, Bethlehem, Pa. Filed Jan. 14, 1942. Serial No. 450,207.

NO-RIDE

FOR LADIES' SLIPS.

Claims use since Sept. 30, 1940.

TRADE-MARK REGISTRATIONS RENEWED

150,300. **RU-CO.** TONIC FOR RHEUMATISM. Registered January 3, 1922. THE CLYDE COLLINS COMPANY, INC. Renewed January 3, 1942, to Clyde Collins, Inc., Memphis, Tenn., a corporation of Tennessee, successor.

151,772. **GEM.** CRIBS, CRADLES, AND CERTAIN NAMED NURSERY FURNITURE. Registered February 14, 1922. GEM CRIB AND CRADLE COMPANY, Gardner, Mass., a corporation of Massachusetts. Renewed February 14, 1942.

152,401. **EUREKA.** TACKLE BLOCKS. Registered February 28, 1922. JOHN H. FLYNN, JR., Cincinnati, Ohio. Renewed February 28, 1942.

152,409. **GOODRICH.** MATS MADE WHOLLY OR PARTLY OF RUBBER OR HAVING RUBBER INCORPORATED THEREIN. Registered February 28, 1922. THE B. F. GOODRICH COMPANY, New York, N. Y., a corporation of New York. Renewed February 28, 1942.

152,735. **TOOT-SWEET.** A PREPARATION FOR USE IN CLEANING THE HANDS. Registered March 7, 1922. SIDNEY J. DANJEAN, SR., Franklin, La. Renewed March 7, 1942.

152,825. **DUTCH TWINS.** BAKERY PRODUCTS—NAMELY, WAFERS. Registered March 7, 1922. HOLLAND AMERICAN WAFER CO., Grand Rapids, Mich., a corporation of Michigan. Renewed March 7, 1942.

152,864. **REPRESENTATION OF A KING.** WASHING-MACHINE SOAP. Registered March 7, 1922. LOS ANGELES SOAP COMPANY, Los Angeles, Calif., a corporation of California. Renewed March 7, 1942.

152,886. **FOX HEAD.** GINGER ALE, ROOT BEER, MINERAL WATER, AND SODA WATER. Registered March 7, 1922. MILWAUKEE-WAUKESHA BREWING COMPANY. Renewed March 7, 1942, to Fox Head Waukesha Corporation, Waukesha, Wis., a corporation of Wisconsin, by change of name.

152,965. **REMAR.** CAKES, CANDIES, AND FRUIT PRESERVES. Registered March 7, 1922. THE REMAR COMPANY, Oakland, Calif. Renewed March 7, 1942, to The Remar Company, San Francisco, Calif., a corporation of California.

153,064. **MARBLE.** CANDLES. Registered March 7, 1922. WILL & BAUMER CANDLE CO., INC., Syracuse, N. Y., a corporation of New York. Renewed March 7, 1942.

153,065. **STAR.** CANDLES. Registered March 7, 1922. WILL & BAUMER CANDLE CO., INC., Syracuse, N. Y., a corporation of New York. Renewed March 7, 1942.

153,066. **EXCELO.** CANDLES. Registered March 7, 1922. WILL & BAUMER CANDLE CO., INC., Syracuse, N. Y., a corporation of New York. Renewed March 7, 1942.

153,067. **ARGAND.** CANDLES. Registered March 7, 1922. WILL & BAUMER CANDLE CO., INC., Syracuse, N. Y., a corporation of New York. Renewed March 7, 1942.

153,068. **STARLIGHT.** CANDLES. Registered March 7, 1922. WILL & BAUMER CANDLE CO., INC., Syracuse, N. Y., a corporation of New York. Renewed March 7, 1942.

153,069. **BANNER.** CANDLES. Registered March 7, 1922. WILL & BAUMER CANDLE CO., INC., Syracuse, N. Y., a corporation of New York. Renewed March 7, 1942.

153,283. **MISSION OLIVE.** TOILET SOAP. Registered March 14, 1922. LOS ANGELES SOAP COMPANY, Los Angeles, Calif., a corporation of California. Renewed March 14, 1942.

153,290. **RAYCO.** BRAKE LINING. Registered March 14, 1922. THE RAYBESTOS COMPANY, Bridgeport, Conn. Renewed March 14, 1942, to Raybestos-Manhattan, Inc., Passaic, N. J., a corporation of New Jersey, assignee.

153,490. **DOVE DOWN.** SILK PIECE GOODS. Registered March 21, 1922. H. R. MALLINSON & CO. INC. Renewed March 21, 1942, to Mallinson Fabrics Corporation, New York, N. Y., a corporation of New York, assignee.

153,491. **EPONETTE.** SILK PIECE GOODS. Registered March 21, 1922. H. R. MALLINSON & CO. INC. Renewed March 21, 1942, to Mallinson Fabrics Corporation, New York, N. Y., a corporation of New York, assignee.

154,482. **DELICIA.** CERTAIN NAMED FOODS. Registered April 18, 1922. BAKER FOOD PRODUCTS COMPANY, Chicago, Ill., a corporation of Delaware. Renewed April 18, 1942.

154,483. **DELICIA.** CERTAIN NAMED FOODS. Registered April 18, 1922. BAKER FOOD PRODUCTS COMPANY, Chicago, Ill., a corporation of Delaware. Renewed April 18, 1942.

154,484. **DELICIA.** CERTAIN NAMED FOODS. Registered April 18, 1922. BAKER FOOD PRODUCTS COMPANY, Chicago, Ill., a corporation of Delaware. Renewed April 18, 1942.

154,723. **SPRINGTEX.** KNIT UNDERWEAR FOR MEN, WOMEN, AND CHILDREN. Registered April 18, 1922. UTICA KNITTING CO., Utica, N. Y., a corporation of New York. Renewed April 18, 1942.

154,741. **AUTOGRAPH.** GARTERS. Registered April 18, 1922. WILSON BROTHERS, Chicago, Ill., a corporation of Illinois. Renewed April 18, 1942.

154,907. **CLETRAC.** CULTIVATORS, PLOWS, HARROWS, MOWERS, REAPERS, BINDERS, AND HITCHES FOR CONNECTING SUCH IMPLEMENTS AND OTHER VEHICLES WITH TRACTORS. Registered May 16, 1922. THE CLEVELAND TRACTOR COMPANY, Euclid, Ohio. Renewed May 16, 1942, to The Cleveland Tractor Company, Cleveland, Ohio, a corporation of Ohio.

154,979. **HOT-FLOW.** WATER-PURIFICATION APPARATUS COMPRISING SYSTEMS OF SETTLING TANKS, CHEMICAL TANKS, FILTERS, AND HEATERS. Registered May 16, 1922. INTERNATIONAL FILTER CO. Renewed May 16, 1942, to Infilco Incorporated, Chicago, Ill., a corporation of Delaware, assignee by mesne assignments.

154,992. **LAUTER-HUMANA.** PIANOS AND PLAYER PIANOS. Registered May 16, 1922. LAUTER HUMANA CO., Newark, N. J., a corporation of New Jersey. Renewed May 16, 1942.

155,384. **LES TOILES DE TOURNON.** PIECE GOODS OF SILK, WOOL, LINEN, COTTON, AND CHINA GRASS. Registered May 30, 1922. BIANCHINI, FÉRIER, Lyons, France. Renewed May 30, 1942, to Bianchini Ferier, Inc., New York, N. Y., a corporation of New York, assignee.

155,490. **AUTO-WET.** ABRASIVE PAPER. Registered May 30, 1922. MINNESOTA MINING & M'FG. Co. Renewed May 30, 1942, to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware, assignee.

155,566. **W.** CERTAIN NAMED ARTICLES OF JEWELRY. Registered May 30, 1922. J. R. WOOD & SONS. Renewed May 30, 1942, to J. R. Wood & Sons, Incorporated, New York, N. Y., a corporation of New York, successor.

155,959. **HERBERT TAREYTON.** CIGARS, CIGARETTES, SMOKING AND CHEWING TOBACCO. Registered June 13, 1922. FALK TOBACCO COMPANY, INCORPORATED. Renewed June 13, 1942, to The American Tobacco Company, New York, N. Y., a corporation of New Jersey, successor.

155,995. **EZEON.** PAPER CLIPS. Registered June 13, 1922. FRED J. KLINE. Renewed June 13, 1942, to Acco Products, Inc., Long Island City, N. Y., a corporation of New York, assignee.

155,996. **ACCO.** PAPER FASTENERS, COVERS AND FOLDERS FOR BINDING AND HOLDING PAPERS TOGETHER, DESK FILES, CLIP FILES, AND STENOGRAPHIC-BOOK HOLDERS. Registered June 13, 1922. FRED J. KLINE. Renewed June 13, 1942, to Acco Products, Inc., Long Island City, N. Y., a corporation of New York, assignee.

155,997. **ACCO.** PAPER FASTENERS, PAPER CLIPS, FOLDERS FOR BINDING AND HOLDING PAPERS TOGETHER, DESK FILES, CLIP FILES, COVERS, AND STENOGRAPHIC-BOOK HOLDERS. Registered June 13, 1922. FRED J. KLINE. Renewed June 13, 1942, to Acco Products, Inc., Long Island City, N. Y., a corporation of New York, assignee.

156,158. **PRIDE OF THE WEST.** COTTON GOODS IN THE PIECE. Registered June 20, 1922. AMERICAN BLEACHED GOODS COMPANY, New York, N. Y., Chicago, Ill., and St. Louis, Mo. Renewed June 20, 1942, to American Bleached Goods Company, Inc., New York, N. Y., a corporation of Delaware, assignee.

156,161. **PEREDIXO.** TOOTH PASTE, MASSAGE CREAM, TOOTH POWDER, FOOT POWDER, AND TALCUM POWDER. Registered June 20, 1922. AMERICAN DRUGGISTS SYNDICATE. Renewed June 20, 1942, to Vadsco Sales Corporation, Long Island City, N. Y., a corporation of Delaware, assignee by mesne assignments.

156,211. **COHALL.** COTTON PIECE GOODS. Registered June 20, 1922. COHN-HALL-MARX CO., New York, N. Y., a corporation of New York. Renewed June 20, 1942.

156,449. **EXCELWEAR.** SHIRTINGS IN THE PIECE WOVEN FROM SILK OR COTTON FIBER OR MIXTURES OF THE SAME. Registered June 20, 1922. TURNER & WALLS. Renewed June 20, 1942, to Albert H. Vandam Co., Inc., New York, N. Y., a corporation of New York, successor.

156,571. **HASSLINGER'S BLUE RIBBON.** FRESH AND COOKED CRABS AND SHRIMP, FRESH CLAMS AND OYSTERS. Registered June 27, 1922. WALTER HASSLINGER. Renewed June 27, 1942, to Edna P. Sterling and George R. Nelson, doing business as Hasslinger's Restaurant, Baltimore, Md., a firm, assignee.

156,864. **SEASON.** FOOD PRODUCTS—VIZ, SMOKED SARDINES. Registered July 18, 1922. ISAAC EPSTEIN. Renewed July 18, 1942, to I. Epstein & Sons, Inc., Newark, N. J., a corporation of New Jersey, assignee by mesne assignments.

157,460. **CORONET.** CAMBRICS IN THE PIECE. Registered August 8, 1922. BERKELEY COMPANY. Renewed August 8, 1942, to Lonsdale Company, Providence, R. I., a corporation of Rhode Island, assignee by mesne assignments.

157,489. **DETROIT.** REAMERS AND MILLING CUTTERS. Registered August 8, 1922. DETROIT TWIST DRILL CO., Detroit, Mich., a corporation of Michigan. Renewed August 8, 1942.

157,642. **OPENKOTE.** ABRASIVE PAPERS AND CLOTHS. Registered August 15, 1922. HERMAN BEHR & COMPANY, INCORPORATED, Brooklyn, N. Y. Renewed August 15, 1942, to Behr-Manning Corporation, Troy, N. Y., a corporation of Massachusetts, assignee.

157,686. **MIRACLE.** CANNED FISH, CANNED SALMON; CANNED FRUITS — NAMELY, CANNED PEACHES; AND CANNED VEGETABLES—NAMELY, CANNED TOMATOES. Registered August 15, 1922. G. W. HUME COMPANY, San Francisco, Calif., a corporation of California. Renewed August 15, 1942.

157,708. **KING CROP.** CANNED TOMATOES. Registered August 15, 1922. LAWNDALE WHOLESALE GROCERY COMPANY, Chicago, Ill., a corporation of Illinois. Renewed August 15, 1942.

157,752. **IRESTU.** MATTRESSES, PILLOWS, BOLSTERS, AND CUSHIONS WHICH ARE FILLED WITH A SOFT FILLING MATERIAL. Registered August 15, 1922. THE ROBINSON-RODERS CO., INC., Newark, N. J. Renewed August 15, 1942, to Burton-Dixie Corporation, Chicago, Ill., a corporation of Delaware, assignee by mesne assignments.

157,789. **DECOR.** SNAP FASTENERS. Registered August 15, 1922. WALDES & CO., INC. Renewed August 15, 1942, to Waldes Koh-I-Noor, Inc., Long Island City, N. Y., a corporation of New York, assignee.

157,844. **THE ARISTOCRAT.** HANDKERCHIEFS. Registered August 22, 1922. THE ACHESON-HARDEN CO., New York, N. Y., a corporation of New Jersey. Renewed August 22, 1942.

157,866. **STA-SHAPE.** MEN'S FELT HATS. Registered August 22, 1922. F. BERG & CO., Orange, N. J. Renewed August 22, 1942, to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware, assignee by mesne assignments.

157,902. **ROSELYN.** HAIR NETS. Registered August 22, 1922. N. B. COHEN. Renewed August 22, 1942, to N. B. Cohen Company, Scranton, Pa., a firm, assignee.

157,919. **UNDERKNITS.** CERTAIN ARTICLES OF CLOTHING. Registered August 22, 1922. THE THOMAS DALBY COMPANY. Renewed August 22, 1942, to Thomas Dalby, Inc., Watertown, Mass., a corporation of Massachusetts, assignee.

157,923. **"AVVENIRE".** CIGARS. Registered August 22, 1922. DE NOBILI CIGAR CO., INC., Long Island City and New York, N. Y. Renewed August 22, 1942, to De Nobili Cigar Company, Inc., Long Island City, N. Y., a corporation of New York.

157,992. **JONES.** GUMMED PAPER—THAT IS, PAPER COATED ON ONE SIDE WITH MUCILAGE OR GUM AND USED FOR LABELS. Registered August 22, 1922. SAMUEL JONES & COMPANY, Newark, N. J. Renewed August 22, 1942, to McLaurin-Jones Co., Brookfield, Mass., a corporation of Massachusetts, assignee.

158,032. **MOJUD.** HOSIERY. Registered August 22, 1922. MOCK & JUDSON, New York, N. Y. Renewed August 22, 1942, to Mock, Judson, Voehringer Company of New York, Inc., Long Island City, N. Y., a corporation of New York, assignee by mesne assignments.

158,052. **MON BOUDOIR.** PERFUMES, TOILET WATERS, SACHETS, AND SACHET POWDERS. Registered August 22, 1922. PARFUMERIE HOUBIGANT, Paris, France, assignor to Houbigant, Inc. Renewed August 22, 1942, to Houbigant, Inc., New York, N. Y., a corporation of New York, assignee.

158,053. **"ABSORBO".** SALVE FOR USE IN TREATMENT OF COLDS, COUGHS, INFLUENZA, AND SIMILAR AILMENTS, BURNS, INSECT BITES, AND BOILS. Registered August 22, 1922. PARK LABORATORY COMPANY. Renewed August 22, 1942, to Park Laboratory Company, Inc., San Antonio, Tex., a corporation of Texas, assignee.

158,095. **LA FOUNTAINE.** HAIR NETS. Registered August 22, 1922. SITROUX IMPORTING COMPANY, INC. Renewed August 22, 1942, to The Sitroux Company, Inc., New York, N. Y., a corporation of New York, by change of name.

158,121. **INDSJI.** SMOKING AND CHEWING TOBACCO, CIGARS, CIGARETTES, AND SNUFF. Registered August 22, 1922. "TURMAC" TURKISH-MACEDONIAN TOBACCO Co., Arnhem, Netherlands. Renewed August 22, 1942, to "Turmac" Turkish-Macedonian Tobacco Company N. V., Amsterdam, Netherlands, a Dutch company.

158,198. **E. MARTIN.** CERTAIN NAMED STRINGED MUSICAL INSTRUMENTS AND PARTS THEREOF. Registered August 29, 1922. C. BRUNO & SON, INC., New York, N. Y., a corporation of New York. Renewed August 29, 1942.

158,299. **BEL-CAPS.** MEDICINAL PREPARATIONS FOR THE TREATMENT OF COLDS, INFLUENZA, AND LA GRIPPE. Registered August 29, 1922. W. E. SHUIT, INCORPORATED, Passaic, N. J. Renewed August 29, 1942, to W. E. Shuit, Incorporated, Clifton, N. J., a corporation of New Jersey.

158,421. **D. D. WILLIAMS.** OINTMENT FOR THE TREATMENT OF RHEUMATISM AND NEURALGIC PAIN. Registered September 5, 1922. WM. D. DAVIS, doing business as Standard Medical Company. Renewed September 5, 1942, to Standard Medical Company, Inc., Lansford, Pa., a corporation of Delaware, assignee.

22,057

METHOD FOR THE SEPARATION OF CHEMICALLY MODIFIED ROSINS AND THEIR ESTERS INTO COMPONENTS

Joseph N. Borglin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Original No. 2,191,309, dated February 20, 1940, Serial No. 265,549, April 1, 1939. Application for reissue January 25, 1941, Serial No. 375,982

14 Claims. (Cl. 260—107)

1. The method of separating polymerized rosin into its components, which comprises dissolving polymerized rosin in a solvent therefor, contacting the solution so formed with a selective rosin color-body solvent immiscible with the said solution, separating the selective solvent therefrom and recovering a component of the polymerized rosin from each of the resulting solutions.

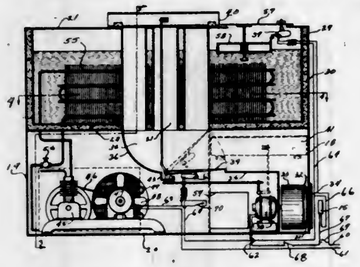
22,058

AIR CONDITIONING UNIT

Kemper Penn Brace, South Bend, Ind., assignor, by mesne assignments, to Allin B. Crouch, Schenectady, N. Y., as trustee

Original No. 2,058,405, dated October 27, 1936, Serial No. 639,186, October 24, 1932. Application for reissue October 26, 1938, Serial No. 237,087

11 Claims. (Cl. 62—140)



10. A self-contained unit for conditioning air in a room, said unit comprising a casing, an evaporator in the casing, means for circulating air from the room in heat transfer relation to the evaporator and for discharging the same into the room, a compressor and a condenser in said casing arranged in refrigerant-flow relation to said evaporator, said unit having a passage discharging to the outside of said room, means for admitting air from the room to said passage and from the outside of the room to said passage, damper means for controlling the flow of air to said passage so that in one position of the damper means the air admitted to said passage is primarily air from the outside of the room and so that in a second position the air admitted to said passage is substantially entirely air from said room, and air translating means for effecting flow of air through said passage, the air from outside the room flowing in heat-transfer relation to said condenser.

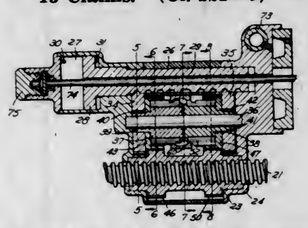
22,059

FEEDING MECHANISM FOR ROCK DRILLS

Albert Feucht, Garfield Heights, Ohio, assignor to The Cleveland Rock Drill Company, Cleveland, Ohio, a corporation of Ohio

Original No. 2,207,792, dated July 16, 1940, Serial No. 169,221, October 15, 1937. Application for reissue November 24, 1941, Serial No. 420,276

13 Claims. (Cl. 121—9)



10. In a drilling apparatus, the combination with a support, of a drilling motor slidable on the support, of a feeding mechanism for said motor including a duality of operatively associated elements one capable of rotation relative to the other for effecting feeding motion of the motor, a duality of power actuated members alternatively rotated in one and the same direction, and means for transmitting the rotation of said members in said one and the same direction to the rotatable element.

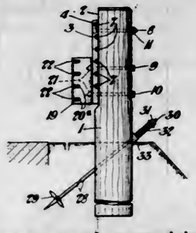
22,060

TWO-PURPOSE HIGHWAY GUARDRAIL

Albert P. Hayden and George A. Gleason, Worcester, Mass., assignors to The American Steel and Wire Company of New Jersey, a corporation of New Jersey

Original No. 2,201,313, dated May 21, 1940, Serial No. 115,228, December 10, 1936. Application for reissue October 17, 1940, Serial No. 361,644

6 Claims. (Cl. 256—13.1)



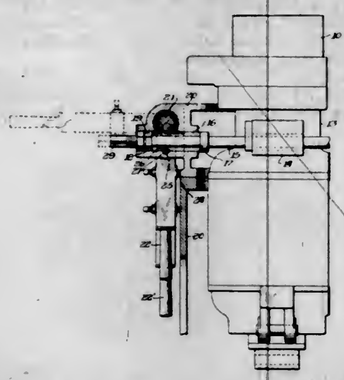
6. A highway guard comprising a plurality of spaced posts, means for receiving and securing a heavy duty secondary barrier to one side of each of said posts, a resilient spring bracket secured to each of said posts on the same side as said secondary barrier, said brackets projecting an appreciable distance from the side face of each of said posts, and a primary barrier of less strength than said secondary barrier carried by and secured to said brackets, said primary barrier being coextensive with a substantial portion of and disposed in spaced parallel relation with said secondary barrier.

22,061
CUTTER-HEAD QUICK RELEASE

Wallace D. Johnson, Beloit, Wis., assignor to Yates-American Machine Company, Beloit, Wis., a corporation of Delaware

Original No. 1,763,928, dated June 17, 1930, Serial No. 177,026, March 21, 1927. Application for reissue July 12, 1939, Serial No. 284,050

9 Claims. (Cl. 144—130)



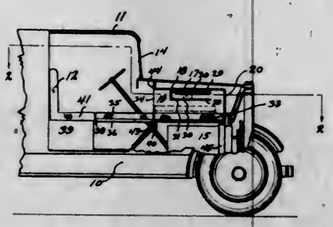
1. In a wood-working machine, the combination with a cutter head unit movable relative to the machine, of a screw-threaded connection for adjusting the working position of the unit, a pinion and rack connection for releasing the unit quickly from any adjusted working position and returning it accurately to the same, and a hand lever for operating the pinion and rack connection, said pinion and rack connection transmitting the movement of the hand lever directly to the unit, and said hand lever when moved in one direction rapidly retracting the unit from its adjusted working position and when moved the same distance in the opposite direction rapidly returning the unit to its previously adjusted working position.

22,062
TRUCK SLEEPER

Earl A. Kounkel, Seattle, Wash., assignor of one-half to Raymond Stabe, Hinton, Iowa

Original No. 2,174,499, dated September 26, 1939, Serial No. 157,571, August 5, 1937. Application for reissue September 23, 1941, Serial No. 412,051

9 Claims. (Cl. 296—63)



1. In combination with a truck hood and forward cab seat, a hollow compartment positioned beneath said hood and adjacent the truck engine, means bridging the space between the compartment and the seat to form a complete full length sleeper, and means including a normally vertically positioned member disposed adjacent to said compartment and forming a portion of the cab wall adapted to be moved downwardly to such a position as to allow access to said compartment to utilize the same as a portion of the sleeper.

22,063
BLAST FURNACE TREATMENT OF LOW GRADE MANGANESE-IRON ORE

Percy H. Royster, Montclair, N. J.

No Drawing. Original No. 2,265,863, dated December 9, 1941, Serial No. 234,847, October 13, 1938. Application for reissue January 3, 1942, Serial No. 425,579

7 Claims. (Cl. 75—31)

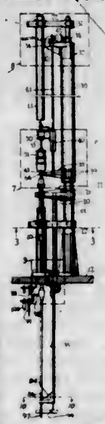
1. Process which comprises charging oxidic manganese-iron ore and solid fuel into a blast furnace; blasting the charge with preheated air; maintaining the upper surface of the resulting slag bath at a level within the zone of direct influence of the oxidizing constituents of the blast, whereby the normal reduction intensity of the furnace hearth is lessened and a molten slag containing some FeO and at least 70% of the total manganese content of the ore in non-metallized form and a molten pig iron product are produced; and tapping off the slag and the molten pig iron product.

22,064
APPARATUS FOR HEAT-TREATING GUN BORES

Howard E. Somes, Grosse Pointe Park, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan

Original No. 2,208,607, dated July 23, 1940, Serial No. 121,598, January 21, 1937. Renewed April 7, 1939. Application for reissue July 22, 1941, Serial No. 403,590

23 Claims. (Cl. 266—4)



1. An apparatus of the type described comprising means for holding an object having a cylindrical bore, an induction heating element arranged to be moved into and out of the bore of the object held by said holding means, a quenching nozzle arranged to follow said heating element into the bore near the trailing end of the heating element, and means for maintaining an inert gas in the bore on the side of the heating element remote from the quenching nozzle and in the clearance between the heating element and the bore.

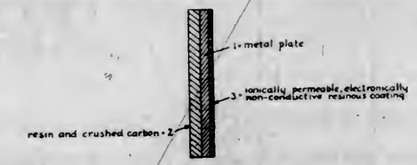
22,065
ANODE

George H. Young, Pittsburgh, Pa., assignor to Stoner-Mudge, Inc., a corporation of Pennsylvania

Original No. 2,229,431, dated January 21, 1941, Serial No. 136,175, April 10, 1937. Application for reissue September 13, 1941, Serial No. 410,796

11 Claims. (Cl. 136—111)

1. An electrode for a dry cell consisting of a zinc plate bearing on one side a resinous coating with particles of carbon embedded in the coating, and on the opposite side of a porous ionically



permeable and electronically non-conductive coating of resinous material.

PATENTS

GRANTED APRIL 7, 1942

2,278,407

THERMAL TREATMENT OF CARBONACEOUS MATERIALS

Eugen Anthes, Wilhelm v. Fuener and Walter Simon, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application March 22, 1941, Serial No. 384,742. In Germany April 5, 1940

9 Claims. (Cl. 196—52)

1. A process for the production of hydrocarbons from a carbonaceous material by thermal treatment at temperatures of between 300° and 600° C., in the presence of a catalyst, which comprises using as catalyst a mixture of metal sulphides, which has been obtained by mixing in a dry state an ammonium thio-salt of a metal of the 6th group of the periodic system with a finely divided metal of the iron group obtained from the corresponding carbonyl compound, and heating the mixture at temperatures above 300° C.

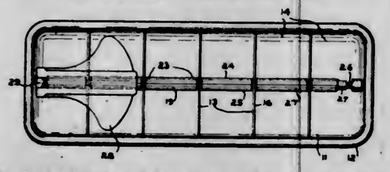
2,278,408

LIQUID CONGEALING APPARATUS

John H. Ashbaugh, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application May 25, 1937, Serial No. 144,599

12 Claims. (Cl. 62—108.5)



12. A grid assembly comprising a longitudinal grid member and lateral grid members suitably secured together and means for decreasing the effective distance between the longitudinal grid member and the outer ends of the lateral grid members progressively along the length of the longitudinal grid member.

2,278,409

GRAPH PRINTING TABULATOR

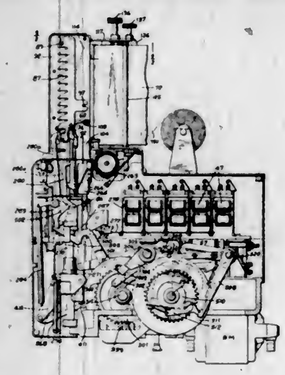
John William Armbruster, East Rockaway, N. Y., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application August 30, 1932, Serial No. 631,038

9 Claims. (Cl. 235—61.9)

1. In a device for printing graphical records, a plurality of differentially adjusted print controlling elements, a coordinate mark printing member mounted on one of said elements, a cam for adjusting the position of said member on said element to put it in one of several printing positions according to the differential adjustment of the other of said elements, and means for moving said cam under control of the other of said elements.

4. In a machine of the class described, devices for entering three parts of related data, a movable bar, means under control of one of said entering devices for adjusting said bar, a mark printing member loosely mounted on said bar, a second means under control of another of said entering device for adjusting said member on said bar, a third means under control of the third of said entering devices for adjusting part



of said second adjusting means to give said member a further adjustment, and means for impressing said member against a record sheet to print a mark which is representative of all of said data by virtue of its position on said sheet.

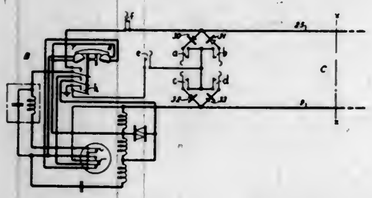
2,278,410

TELEPHONE SYSTEM

Henry M. Bascom, Brooklyn, and Langford J. Bowne, Howard Beach, N. Y., and Neil Y. Priessman, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application October 8, 1940, Serial No. 360,218

14 Claims. (Cl. 179—42)



1. The combination in a telephone impulse transmitting system, of a transmitting station, a receiving point, a source of positive and negative current impulses, a line interconnecting said transmitting station and said receiving point, means for selectively applying the positive and negative impulses of said source to said line singly and in combinations, and a receiving circuit for said impulses comprising a pair of unidirectional current conducting branches interposed between said source and said means, each branch including two similarly poled rectifiers and the winding of a relay and a rectifier of each branch shunting the relay winding and one of the rectifiers of the other branch.

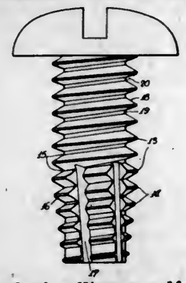
2,278,411

SCREW

Felix W. Braendel, Union City, N. J., assignor to Groov-Pin Corporation, Union City, N. J., a corporation of New York

Application June 26, 1939, Serial No. 281,167

6 Claims. (Cl. 80—61)



1. The method of rolling a self-cutting screw from a blank having a cylindrical shank, which consists in rolling a thread about the entire length thereof with substantially uniform thickness of apex and simultaneously rolling longitudinal grooves along the lower part of the length of said blank to form a cutting section and displacing metal from the shank beyond said cutting section to enlarge the thread diameter thereat, thereby to compensate for the enlargement of cutting section diameter due to the impression of the longitudinal grooves therein.

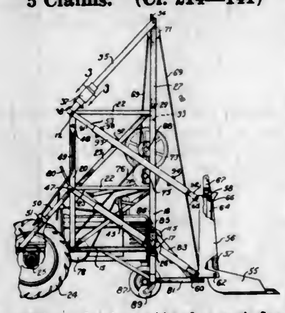
2,278,412

LIFTING ATTACHMENT FOR TRACTORS

Bernard Calvert, near Worthington, Ind.

Application November 9, 1940, Serial No. 365,028

5 Claims. (Cl. 214—141)



1. In a lifting device attachment for a tractor having a power pulley, a tower, a generally U-shaped frame supporting the tower formed to have a leg on each side of the tractor for rear axle support and to have a front member for front tractor end engagement; a pair of lower elevating arms each pivotally carried by the tower by their rear ends at a common elevation; one on each side of the tower to extend forwardly thereof; a pair of upper elevating arms, means rockably carried by the tower and pivotally carrying said upper arms by their rear ends at a common elevation spaced above that of the pivots of said lower arms and extending forwardly of the tower; a tool carrier pivotally engaged at upper and lower elevations by the forward ends of both of said pairs of arms; a cable winding drum carried by said tower; a cable engaging the drum and extending upwardly therefrom; a pulley in the upper part of said tower over which the cable passes to drop downwardly therefrom to engage said tool carrier; driving means between said tractor pulley and said cable drum; and means for shifting the pivot points of the rear ends of said upper arms in a principally fore and aft direction; and lost motion means in said upper arms limiting the length of the arms consisting of telescoping arm portions interconnected by a bolt in one portion passing through a longitudinal slot in the other portion and permitting the retraction thereof within a predetermined limit.

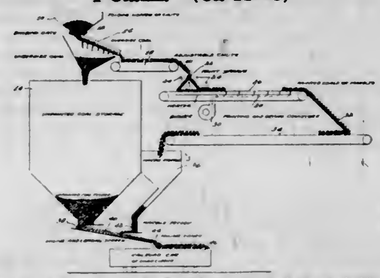
2,278,413

COAL COLORING METHOD

George F. Campbell, Chicago, Ill., assignor to Old Ben Coal Corporation, Chicago, Ill., a corporation of Delaware

Application March 13, 1940, Serial No. 323,817

1 Claim. (Cl. 44—6)



The method of identifying coal consisting of screening a fraction of over-sized lumps from the bulk, uniformly coloring said lumps by spraying color material thereon, drying the color material on the lumps by heating and blowing, and redistributing the lumps with the bulk in controlled proportion as required at the point of distribution to identify the coal.

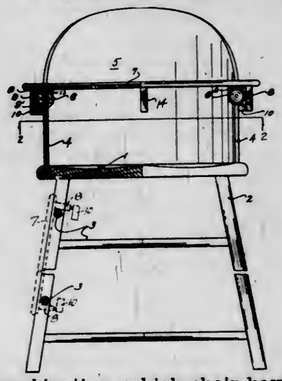
2,278,414

INFANT FURNITURE

Clarence G. Carlson, Oakland, Calif.

Application November 20, 1939, Serial No. 305,321

3 Claims. (Cl. 155—127)



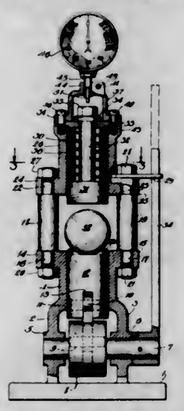
3. In combination, a high chair having a seat, a back, and arm rests, means resiliently supporting said arm rests for deflection upon exertion of a force on the opposed supports, a tray, means comprising a pair of posts projecting downwardly from said tray beside the arm rests, a pair of rotatable members, and means associated with said members forming latches, said ro-

tatable members being rotatable on said posts and adapted to engage and deflect said supporting means, and to latch said tray to said arm rests.

2,278,415
INTERPOLYMERS OF UNSYMMETRICAL DICHLOROETHYLENE
Harold W. Arnold, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 19, 1938, Serial No. 220,010
7 Claims. (Cl. 260—84)

1. An interpolymer obtained by polymerizing a mixture of 10–90% of asymmetrical dichloroethylene, 5–50% of a polymerizable component from the group consisting of methyl, ethyl, phenyl, cyclohexyl, and p-cyclohexyl phenyl methacrylates, styrene, acrylonitrile, methacrylonitrile, methacrylic acid, methacrylic amide, methacrylic anilide, and phenyl vinyl ketone, and 5–30% of a polymerizable component from the group consisting of the vinyl esters of lower aliphatic acids, the esters of acrylic acid, the higher open-chain aliphatic monohydric alcohol esters of methacrylic acid, and methyl vinyl ketone, the proportions being selected to total 100%.

2,278,416
GOLF BALL TESTING MACHINE
Raphael Atti, Cliffside Park, N. J.
Application June 11, 1940, Serial No. 339,839
3 Claims. (Cl. 265—19)



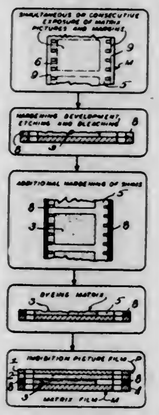
1. The combination of a base having an upwardly extending bracket portion, a bracket, means for connecting said bracket portion and bracket to one another but spaced from one another a distance exceeding the diameter of the type of golf ball to be tested, said means connecting diametrically opposite upper ends of said bracket portion to diametrically opposite lower ends of said bracket, said bracket portion and bracket having elongated alined cylindrical openings, an elongated cylindrical plunger conforming to the cylindrical opening in said bracket portion, to be guided by, and movably mounted in, the cylindrical opening of said bracket portion and provided with an upper golf ball receiving face, a shaft extending through said bracket portion below its cylindrical opening, an eccentric on said shaft, a link connecting said eccentric to the central lower portion of said plunger, a lever fixed to said shaft, a cylindrical head conforming to the cylindrical opening in said bracket to be guided by, and movably mounted in, the cylindrical opening in said bracket, an abutment at the upper end of said bracket, a guide rod slidably mounted in said abutment and extending down and connected to said head, a stop at the upper end of said guide rod slidably to anchor said head and guide rod in said bracket, a spring interposed between said abutment and said head, and a hardness registering indicator mounted at the upper end of said bracket and having a hardness sensing stem in the path of movement of said stop to cooperate with said spring in turn to indicate the hardness of the golf ball to be tested.

2,278,417
TREATMENT OF CELLULOSIC MATERIAL
Alfred William Baldwin, John Gwynant Evans, and Charles Edward Salkeld, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application December 1, 1936, Serial No. 113,702. In Great Britain June 8, 1936
14 Claims. (Cl. 8—116)

1. The process of treating cellulosic material whereby to impart thereto water-repellent properties which comprises heating the same at a temperature between 70 and 200° C., in the absence of moisture, but in intimate contact with a quaternary organic nitrogen compound formed by the interaction between a tertiary organic nitrogenous base and a higher aliphatic amide of the general formula

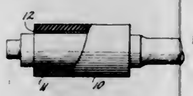
$$R{-}CO{-}N{-}CH_2{-}X$$
$$\quad\quad\quad

margin, and then hardening said marginal layer to reduce its dye absorptivity and to increase its



resistance to wear without correspondingly hardening the picture area.

2,278,424
COVER FOR TEXTILE ROLLS AND METHOD OF MAKING THE SAME
Charles H. Campbell, Hartsville, S. C., assignor to Sonoco Products Company, Hartsville, S. C., a corporation of South Carolina
Application July 22, 1937, Serial No. 155,138
2 Claims. (Cl. 19—143)



1. A hollow cylindrical textile roll cover adapted to be forced onto a cylindrical core by an axially applied force, said cover comprising a tubular outer member of resilient synthetic rubber-like material having an outer truly cylindrical fiber-working surface and a tubular inner member of fabric the inner surface of which is adapted to be coated with an adhesive by means of which the cover may be secured to a supporting core, the outer and inner tubular members being firmly connected together due to the intimate bonding with the fabric of that portion of the synthetic rubber-like material of the outer member which lies nearest its inner surface, which portion has been rendered plastic by the local application of heat thereto after said members have been brought into coaxial relationship and thereafter allowed to solidify.

2,278,425
DRYING OIL AND PROCESS
Ivor M. Colbeth, East Orange, N. J., assignor to The Baker Castor Oil Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application December 27, 1939, Serial No. 311,121
14 Claims. (Cl. 260—398)

1. A destructive distillation residual product of a boron derivative of a hydroxy aliphatic compound, said product being unsaturated and having drying properties.

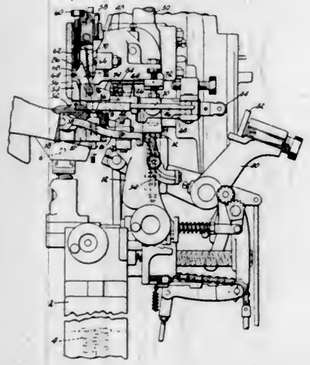
2,278,426
DRYING OIL AND PROCESS
Ivor M. Colbeth, Maplewood, N. J., assignor to The Baker Castor Oil Company, New York, N. Y., a corporation of New Jersey
No Drawing. Original application December 27, 1939, Serial No. 311,121. Divided and this application February 4, 1941, Serial No. 377,399
6 Claims. (Cl. 260—406)

1. A destructive distillation residual product of a boron derivative of an oxidized aliphatic compound, said product being unsaturated.

2,278,427
DRYING OIL AND PROCESS
Ivor M. Colbeth, Maplewood, N. J., assignor to The Baker Castor Oil Company, New York, N. Y., a corporation of New Jersey
No Drawing. Original application December 27, 1939, Serial No. 311,121. Divided and this application February 4, 1941. Serial No. 377,400
8 Claims. (Cl. 260—407)

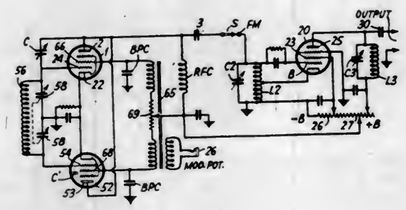
1. A destructive distillation residual product of a boron derivative of a polymerized hydroxy aliphatic compound, said product being unsaturated.

2,278,428
LASTING MACHINE
Theodore P. Courchene, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 12, 1941, Serial No. 382,969
8 Claims. (Cl. 12—12)



1. In a lasting machine, the combination with a support for a last having an upper and an insole thereon, of wipers movable to wipe the margin of the upper inwardly over the insole around an end of the last and mounted also for movements heightwise of the last, and a wiper-positioning device supported independently of the wipers and arranged to engage the corresponding end portion of the insole to determine the position of the device relatively to the last heightwise of the last, said device being provided with spring means arranged to position the wipers heightwise of the last as determined by such engagement of the device with the insole prior to the wiping operation and yieldable to permit movement of the wipers heightwise of the last in response to pressure of the margin of the upper thereon as the upper is wiped inwardly over the insole.

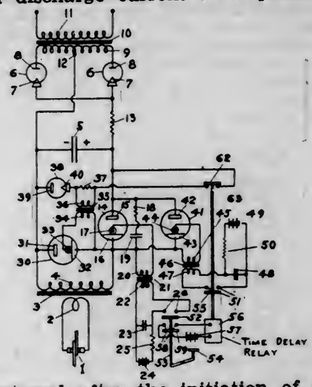
2,278,429
REACTANCE TUBE MODULATION
Murray G. Crosby, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application December 27, 1939, Serial No. 311,074
14 Claims. (Cl. 179—171.5)



1. In a wave generating system an electron discharge tube having a plurality of electrodes connected in oscillation generating circuits including a reactance, a source of direct-current potentials for energizing said electrodes by direct-current potentials whereby oscillations are generated in said circuits, and means for maintaining the frequency of operation of said oscillation generator substantially constant irrespective of variations in tube electrode energization voltages comprising, a pair of electron discharge devices each having an electron receiving electrode, a cathode and a grid electrode, means connecting corresponding electrodes of said devices to said source of direct-current potential, means coupling the impedance between a pair of electrodes in each of said devices in shunt to reactance of said oscillation generating circuits, and means for impressing phase displaced oscillations from said oscillation generating circuits on two electrodes in each of said devices to produce in said devices opposed reactive effects which vary in phase with variations in the direct current potential of said source and are added to the reactance in said generating circuits said last named means comprising a connector connecting the electron receiving electrodes of said devices together and to a point on said generator circuits, a plurality of reactances in a series connection between the electron receiving electrode of one of said devices and the grid of the other of said devices and a connection between said series connection and the grid of said one of said devices.

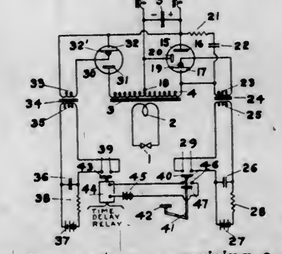
2,278,430
RAPID CONDENSER WELDING SYSTEM
John W. Dawson, Auburndale, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application February 5, 1940, Serial No. 317,354
21 Claims. (Cl. 219—4)

4. A welding system comprising electrical energy storage means, means for storing energy in said storage means, a welding load, means for discharging the energy from said storage means to said load, and means for cutting off the flow of said discharge current at a predetermined



time interval after the initiation of said discharging means.

2,278,431
CONDENSER WELDING SYSTEM
Hans Klemperer, Belmont, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application February 5, 1940, Serial No. 317,360
18 Claims. (Cl. 219—4)

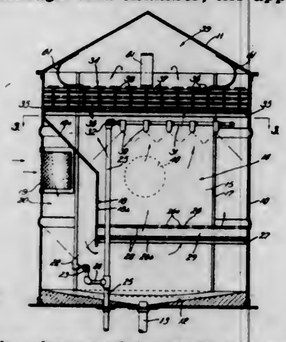


1. A welding system comprising a condenser, means for charging said condenser with a predetermined polarity, a welding load circuit, means for discharging said condenser into said load circuit with a substantially unidirectional pulse of current, and means for feeding energy stored in said load circuit into said condenser when said pulse of current has fallen to a relatively low value, whereby the decrease of said current pulse is accelerated, said last-named means being connected to feed said energy into said condenser with the same polarity as said charging means.

2,278,432
AIR WASHER
William E. Dunn, Kansas City, Mo., assignor to The Fluor Corporation, Ltd., Los Angeles, Calif., a corporation of California
Application June 15, 1940, Serial No. 340,724
5 Claims. (Cl. 183—21)

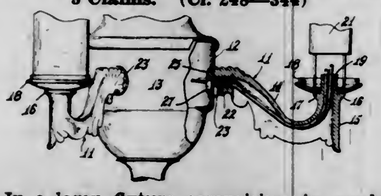
1. An air washer of the character described comprising a vertically extending circular cross-

section shell, spaced vertically extending walls interconnected by a transverse wall, all within and spaced from said shell to form a washing chamber, an inlet in the side of the shell from which air flows downwardly within a space at the outside of said transverse wall and then passes upwardly through said chamber, the upper portion



of said chamber overlying said space, means for washing the air in said chamber, separating means above said chamber for removing liquid entrainment from the air, and air outlets in the sides of said shell to which the washed air flows downwardly from said separating means within spaces at the outside of said spaced vertically extending walls.

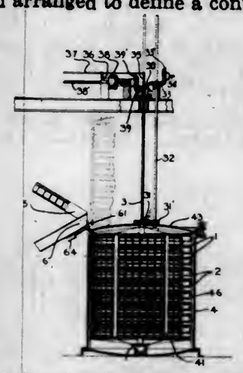
2,278,433
LAMP FIXTURE
August O. Elting, Chicago, Ill.
Application October 2, 1940, Serial No. 359,300
3 Claims. (Cl. 248—344)



1. In a lamp fixture comprising, in combination, a fixture body and radial fixture arms, said arms each including a body portion providing an inverted wire receiving channel, a nipple integral with one arm end in communication with the channel, an external shoulder inwardly of the free end of the nipple, at least one lug projecting from and having its side walls disposed substantially at right angles to the face of the shoulder, the fixture body wall being provided with arm receiving openings each having a lug receiving recess, the nipples each extending through an opening with the lug fitting in a recess for keying the arm against turning, and the nipple being expanded at its free end to hold the shoulder against the outside face of the fixture body wall and prevent withdrawal of the nipple and lug from the opening.

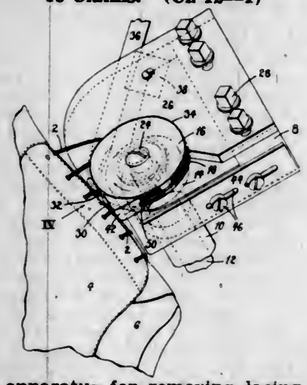
2,278,434
CAN HANDLING MECHANISM
Francis A. Fahey, Seattle, Wash.
Application September 25, 1939, Serial No. 296,441
25 Claims. (Cl. 198—209)

1. Can handling mechanism including a rotative disc, can feeding and can receiving means spaced angularly adjacent the disc's periphery, means disposed adjacent the disc, and supported for angular shifting about the disc's axis, independently of rotation of the disc, to register selectively with the can feeding means or with the can receiving means, said shiftable means being formed and arranged to define a continuous can-



guiding path terminating at one end at the disc's periphery and at its other end inwardly thereof, and means to effect relative rotation between the disc and the guiding means, selective as to sense of rotation, whereby to feed cans into or to discharge them from such path.

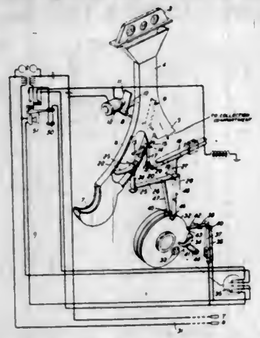
2,278,435
APPARATUS FOR REMOVING LACING THREADS FROM SHOE UPPERS
Joseph Fossa, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application December 9, 1940, Serial No. 369,243
13 Claims. (Cl. 12—1)



1. An apparatus for removing lacing threads from shoe uppers, having means for guiding a shoe upper and for engaging the lacing threads in said upper, means for severing the threads, and means cooperating with the guiding means for presenting the threads to the severing means and for removing the severed threads from the shoe upper.

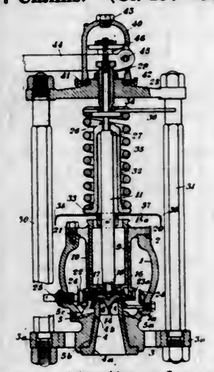
2,278,436
TELEPHONE COIN COLLECTOR
Otto A. Friend, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 2, 1940, Serial No. 359,316
9 Claims. (Cl. 179—6.5)

1. In a telephone coin collector, a coin chute, a coin trap in said chute, a calling dial adjacent said chute for operation by the subscriber, and



means actuated by the movement of said dial for operating said trap.

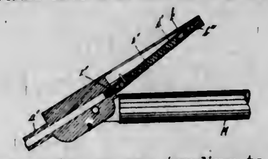
2,278,437
SAFETY VALVE CONSTRUCTION
Perry H. Gentzel, State College, Pa.
Application July 31, 1939, Serial No. 287,608
17 Claims. (Cl. 137—53)



13. As a subcombination of a safety valve, a cylindrical guide, said guide being provided on its inner periphery near one end with an annular recess forming an exhaust chamber, said guide being provided on its outer periphery with one or more apertures in constant communication with said annular recess, adjustable means for controlling said apertures, a cylindrical piston mounted within said cylindrical guide, the outer periphery of said piston normally covering said annular recess, and said piston being adapted to be moved to uncover said annular recess, and a valve disk carried by said piston.

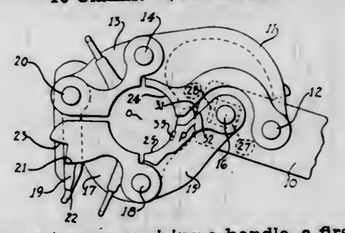
2,278,438
WEAPON HAVING MULTIPLE LOAD MAGAZINE
Albin Gerstenberger, Zella-Mehlis, Thuringia, Germany
Application April 17, 1939, Serial No. 268,319
In Germany April 22, 1938
2 Claims. (Cl. 124—15)

1. A weapon comprising a barrel and a movable part, means pivoting said barrel and part together, the said part covering the bore of said barrel in one relative position of said barrel and part, and said part uncovering the said bore in another relative position of said barrel and part, a magazine having an ammunition space and constituting the entire ammunition storage container outside the barrel, of the weapon, the entire ammunition space in said magazine being an elongated continuous chamber affording a continuous passage for ammunition from one of its ends to the other at all times, means movably securing said magazine to said barrel, said magazine having its longitudinal axis movable with relation to the barrel bore axis and said magazine being movable into and out of registry with the



barrel bore, spring means tending to move said magazine into registry with the barrel bore, said part lying in the path of movement of said magazine as said barrel and part are relatively moved about said pivoting means, said part abutting against said magazine to hold said magazine out of registry with the barrel bore when said bore is covered by said part, said magazine moving under the influence of said spring means into registry with said barrel bore when said part is moved to uncover said bore.

2,278,439
PIPE TONG
Herbert E. Grau and Chester A. Lundeen, Vernon, Calif., assignors to Byron Jackson Co., Huntington Park, Calif., a corporation of Delaware
Application May 16, 1939, Serial No. 273,909
10 Claims. (Cl. 81—66)

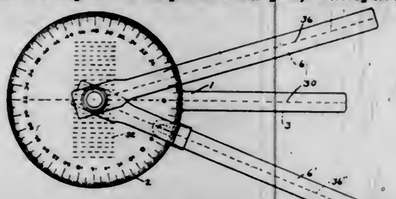


1. A pipe tong comprising a handle, a first jaw pivotally connected to the handle, a second jaw connected to the handle for pivotal movement and movement longitudinally of the handle, other jaw means pivotally interconnecting said jaws and defining therewith a pipe opening, said handle having an arcuate surface thereon concentric with the axis of pivotal connection of said first jaw with the handle and said second jaw having a cooperating arcuate surface thereon substantially concentric with said pipe opening, said surfaces normally coacting to maintain the pipe bore of said second jaw at a substantially constant distance radially inwardly of said first jaw pivot, in all positions of said handle.

2,278,440
MEASURING INSTRUMENT
John L. Graves, Pacific Grove, Calif.
Application August 30, 1940, Serial No. 354,864
1 Claim. (Cl. 33—75)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

A measuring device consisting of a transparent base composed of a dial member formed integral with a projecting arm, a cylindrical pivot mem-

ber provided with external and internal threads attached centrally to said dial, a plunger comprising a piston and pin member slidably fitted within said pivot member, a centrally drilled plug threadably engaged within said pivot member and adapted to retain said plunger therein, a spring for retaining said pin in a raised position, a cap threadably engaging said pivot member and adapted to depress said pin, transparent



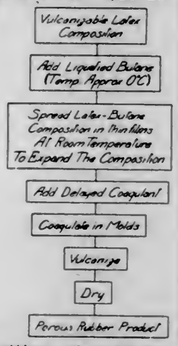
measuring arms rotatably mounted on said pivot member, a friction collar slidably mounted on said pivot member, an adjusting nut threadably engaging said pivot member, and a coil spring interposed between said collar and said adjusting nut adapted to effect restraint of rotational movement of said arms by the adjustment of said nut, and means for clamping one of said arms to said dial member.

2,278,441

METHOD OF MAKING POROUS RUBBER AND COMPOSITIONS EMPLOYED THEREIN

Marion M. Harrison and Louis P. Gould, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application July 29, 1938, Serial No. 222,034
13 Claims. (Cl. 18—53)



1. A composition of matter comprising liquid rubber latex and butane.

5. The method of making a porous rubber product which comprises adding butane to latex in the bulk, spreading the latex-butane mixture in a thin film to permit expansion of the latex by the butane to produce an expanded, porous latex structure, and setting the expanded latex in permanently porous form.

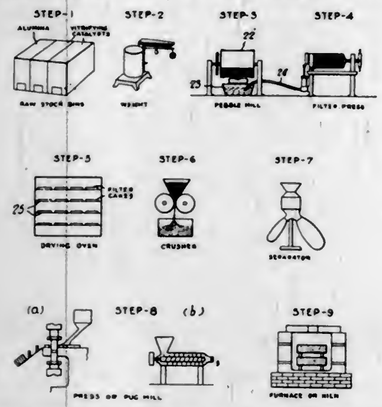
2,278,442

PROCESS OF MAKING CERAMICS, ABRASIVES, AND THE LIKE FROM ALUMINA, AND PRODUCTS THEREOF

John Allen Heany, New Haven, Conn., assignor to Heany Industrial Ceramic Corporation, Rochester, N. Y.

Application April 7, 1937, Serial No. 135,369
11 Claims. (Cl. 106—65)

1. An amorphous, hard, dense, non-porous, non-fused, non-crystalline and fired alumina ceramic possessing a conchoidal fracture and no cleavage planes, having a hardness of 71C on



the Rockwell scale, a density of 3.68 and a power factor of .14, formed of conglomerated coherent alumina particles having a fineness of between 5 to 20 microns.

2,278,443

AUXIN COMPOSITION

Sheldon B. Heath, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application May 3, 1940, Serial No. 333,111
20 Claims. (Cl. 71—2)

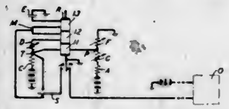
1. A roughly-comminuted composition of matter comprising as major constituents a solid auxin material and a hydrophilic colloid, the latter being in solid suspension in said auxin, which composition is capable of disintegrating on contact with water to form a suspension comprising the solid auxin compound in finely-divided form.

2,278,444

VIBRATING POLAR RELAY SYSTEM

Andrew L. Hopper, River Edge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application March 5, 1941, Serial No. 381,813
14 Claims. (Cl. 178—69)



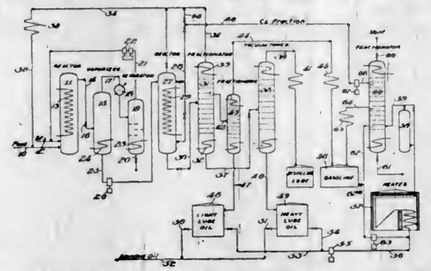
1. A vibrating polar relay having a plurality of windings and alternately opened and closed contacts and a timing condenser, a first of said windings being permanently connected to bias said relay for closing of said contacts when open, a second of said windings being connected by said closed contacts for opening of said contacts, and a third of said windings being serially connected with said second winding when said contacts are open for charging said condenser to delay the closing of said contacts by said first winding and being alternately connected over said closed contacts for discharging said condenser to delay the opening of said contacts by said second winding.

2,278,445

PRODUCING POLYMERIZED OILS

Carl Max Hull, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application October 8, 1938, Serial No. 233,971
12 Claims. (Cl. 196—10)



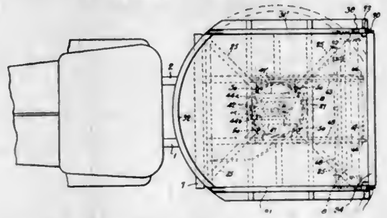
1. The process of producing lubricating oils by polymerizing olefin hydrocarbons contained in a hydrocarbon gas mixture comprising subjecting said hydrocarbon gas mixture in liquid phase in a first polymerization stage to the action of an excess amount of boron fluoride catalyst capable of forming a complex compound with olefin hydrocarbons whereby the major portion of said olefin hydrocarbons is polymerized and a substantial portion of said excess catalyst forms a complex compound with said hydrocarbons, removing unreacted hydrocarbon gases from said complex compound and polymerization products, treating in a second stage said complex compound with additional olefin gases in excess whereby substantially all of said catalyst complex is decomposed and additional polymerization products are produced, introducing said excess gases into said first polymerization stage and distilling said polymerization products to separate therefrom the desired lubricating oil fraction.

2,278,446

DUMP TRUCK

Archie D. L. Hutchinson, Seattle, Wash.

Application June 15, 1940, Serial No. 340,733
9 Claims. (Cl. 298—9)



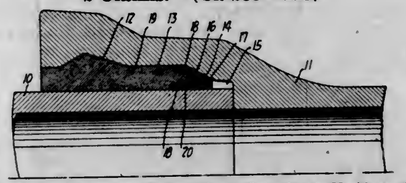
1. In a dump vehicle of the character described, a base frame structure fixed to the vehicle, and having a centrally located annular bearing collar, a turntable frame mounted upon the base frame and having a central annular bearing member rotatably fitted in said collar and adapted for vertical slippage; said turntable frame being adapted normally to rest flatly upon the base frame, a dump body mounted on the turn table frame, a plurality of vertical guides fixed in the base frame about the axis of rotation of the turn table, posts vertically movable in said guideways, anti-friction means at the upper ends of said posts, manually operable means in the base structure for simultaneously lifting all posts to have said anti-friction means at their upper ends to engage and lift the turn table frame clear of the base frame for turning movement.

2,278,447

WATER PIPE JOINT

Ralph H. Hyde, Campbell, Calif.

Application June 3, 1940, Serial No. 338,452
2 Claims. (Cl. 285—115)



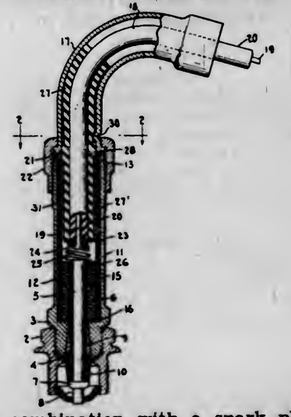
1. A rubber sealing ring for installation between the bell and spigot ends of adjacent water pipe sections, said ring having a wedge-shaped cross-section and having annular skirts continuing the wedge-shape and providing an annular recess therebetween, said ring being so dimensioned with reference to the annular space between said bell and spigot ends that the annular skirts converge at their opposed edges when installed and said skirts having opposed beads formed therearound to provide a restriction at the entrant portion of said recess.

2,278,448

RADIO SHIELDING CONDUIT CONNECTION

David Ingalls, Westfield, N. J., assignor to Titeflex Metal Hose Co., a corporation of New Jersey

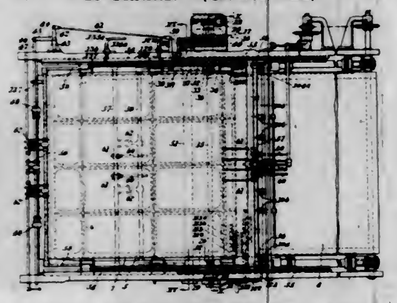
Application August 3, 1940, Serial No. 350,176
15 Claims. (Cl. 123—169)



1. The combination with a spark plug, of a radio shielding casing therefor, a metal radio shielding conduit for a conductor cable to said spark plug, a conductor cable extending through said conduit and into said casing, an integral, tubular, resilient, flexible, fluid-impervious, insulating bushing through which said cable passes, said bushing having an outwardly extending enlargement intermediate its ends and cylindrical portions of less diameter on each side of said enlargement, said enlargement resiliently pressing against said casing and said conduit, one of said cylindrical portions of the said bushing extending into said conduit upon one side of said enlargement and the other of said cylindrical bushing portions extending into said casing upon the other side of said enlargement, means for se-

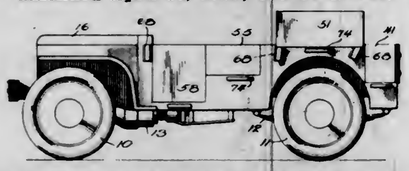
curing said conduit and casing together with said bushing enlargement resiliently bearing upon said conduit and casing and means at the end of said cable for connecting it with an electrode of the spark plug.

2,278,449
ARTICLE HANDLING
Arthur J. Jenner, Chicago, Ill., assignor to Miller Printing Machinery Co., Pittsburgh, Pa., a corporation of Pennsylvania
Application February 20, 1940, Serial No. 319,862
46 Claims. (Cl. 271—14)



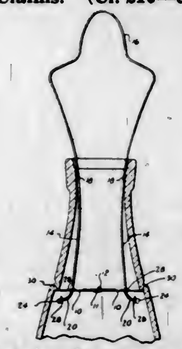
1. Article handling mechanism comprising a first suction carrier movable to a transfer point, a second suction carrier movable from said transfer point and means controlling the suction to said carriers so that suction is supplied to the first carrier in its movement to the transfer point and to the second carrier in its movement from the transfer point, the carriers being so related as to transfer an article carried by the first to the second at the transfer point.

2,278,450
MILITARY VEHICLE BODY
Byron Q. Jones, United States Army
Application October 8, 1941, Serial No. 414,123
10 Claims. (Cl. 296—24)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a motor vehicle body, a forward floor portion extending transversely of the vehicle, a pair of shiftable extension panels at each end of said forward transverse floor portion, each of said extension slides being adapted to be extended in a lateral direction from said floor; a transverse seat portion immediately behind the aforementioned floor, said seat portion including a pair of extension panels adapted to be extended longitudinally of said transverse seat; a pair of wheel wells behind the aforementioned seat portion, each of said wheel wells including a top surface, an extension panel associated with each of said wheel wells and adapted to be extended transversely of the vehicle; a rear floor portion, and a pair of extension panels associated with said rear floor portion and arranged to be extended transversely with respect to the vehicle body.

2,278,451
SEPARATOR FOR BOTTLED MILK AND CREAM
Everett E. Kent, Newton, Mass., assignor of thirty-seven and one-half per cent to Frederick H. McAdams, Revere, and twenty-nine and one-sixth per cent to John B. Neal, Allston, Mass.
Application January 25, 1941, Serial No. 375,877
6 Claims. (Cl. 210—51.5)

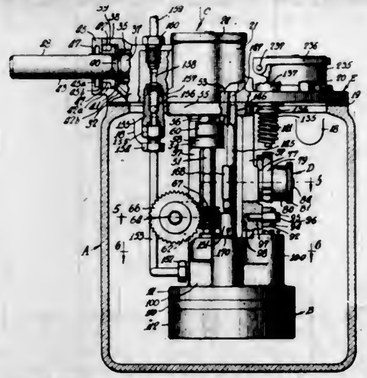


1. In a separator for cream from milk in a bottle, wherein a collapsible partition plate, for fitting the interior cross-section of a milk bottle at the region of the cream line of its contents, is combined with means for passing the collapsed plate through the bottle neck, and for bringing the plate to flatness, that improvement wherein the plate is in two sections hinged together, and said means comprises a pair of plate-holding arms which are movable resiliently toward each other; are connected to the plate sections on opposite sides of the hinge line of the plate, each having an outward curving prong which extends loosely through a hole in its plate section, and has terminal means holding the plate section on the prong; the relation of said hole and prong being one of looseness wherein the hole is large enough for its plate section to slip along the prong when the plate departs from flatness by movement of the sections about the axis of the hinge; said arms having mid-regions of mutual taper toward the plate from beyond a place where the arms engage within the bottle mouth, the outer ends of said arms being connected together and there being resilience continually urging apart the said bottle-mouth-engaging regions; and the angle of said taper of arms being sufficient for the said resilience to overcome friction between arms and mouth and so to slide them outward on the bottle lip, simultaneously with their spreading of the plate to flatness.

2,278,452
LUBRICATION
Edward H. Kocher, Boonton, N. J., assignor to Auto Research Corporation, a corporation of Delaware
Application February 26, 1937, Serial No. 127,857
11 Claims. (Cl. 184—7)

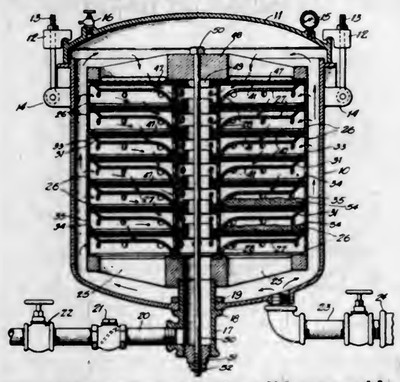
1. In a centralized lubricating installation of the type having a central source of lubricant supply and pressure, a branched distributing tubing system leading to a plurality of bearings to be lubricated at desirable intervals, said system being provided with means to meter the flow of lubricant through the system to the bearings to be lubricated; a connection between said source and said system provided with a return passage to the source, which return passage when open

will receive all the discharge from said source and return it thereto, periodic cut-off valve means to periodically cut off said connection and adjustable means to regulate operation of said valve means, said adjustable means including two disks



with recesses in the peripheries thereof at different spacings and of different sizes, a shaft carrying said disks, means to drive said shaft, means to press said disks closely together and means actuated by the cooperating recesses of said disks to actuate said periodic cut-off means.

2,278,453
PLATE FILTER
Aloysius C. Kracklauer, Chicago, Ill., assignor to Sparkler Manufacturing Company, Mundelein, Ill., a copartnership composed of William J. Kracklauer, Violet Kracklauer and Aloysius C. Kracklauer
Application June 5, 1939, Serial No. 277,403
10 Claims. (Cl. 210—178)



1. In a plate filter, a tank, a lid removably secured thereon, a series of horizontal filter frames, each comprising an imperforate plate having a peripheral apron extending beyond the plane of the plate on both sides thereof and having a series of holes therein for passage of a liquid to be filtered, each plate having a central opening and a flat annular ring surrounding the central opening to provide a bearing, and annular bearing surfaces formed at the upper and lower ends of the apron, a central perforate tubular hub bearing upon the annular ring, a perforate plate supported on the imperforate plate and on the central tubular hub the latter being extended above the perforated plate and operating to hold the same against horizontal movement, and a filter sheet supported on the perforate plate, the next filter frame having a liquid-tight bearing upon the filter sheet at its center and at its periphery.

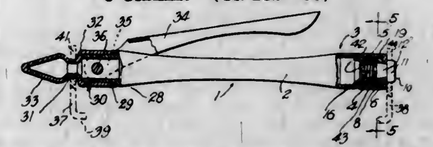
2,278,454
MANUFACTURE OF BASIC REFRACTORIES
Harley C. Lee, Columbus, Ohio, assignor, by mesne assignments, to Basic Refractories, Incorporated, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application July 15, 1936, Serial No. 90,732
21 Claims. (Cl. 106—58)

1. A process of making refractories, which comprises heating materials containing magnesia and lime and silica to silicate formation including calcium orthosilicate and merwinite providing a hydraulic low-temperature bond and a crystalline high-temperature bond with periclase.

2,278,455
FIRE RESISTANT COMPOSITION
Harry K. Linzell, Ingleside, and Joseph W. Gill, Elmhurst, Ill., assignors to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application November 18, 1938, Serial No. 241,229
8 Claims. (Cl. 106—63)

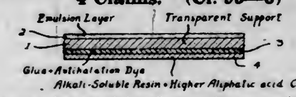
1. A fired ceramic product comprising particles of calcined gypsum bonded by a glass-like binder.

2,278,456
HAIR CURLER ROD
Andrew Madaras, Chicago, Ill.
Application June 10, 1941, Serial No. 397,365
5 Claims. (Cl. 132—33)



1. A curler rod comprising a tubular body, a reduced annular extension formed on one end of said body, a slotted bushing mounted in said extension, a clutch mounted in said bushing, the tongues projecting from said extension into the slot in said bushing whereby to lock said bushing against movement relative to said body.

2,278,457
NONHALATION PHOTOGRAPHIC ELEMENT
Martin Marasco, New Brunswick, N. J., assignor to Du Pont Film Manufacturing Corporation, New York, N. Y., a corporation of Delaware
Application July 13, 1939, Serial No. 284,341
4 Claims. (Cl. 95—8)



1. A photographic element comprising a transparent support, an emulsion of sensitized material upon one side thereof, an anti-halation layer upon the other side thereof composed of animal glue and a material absorptive of the rays to which the photographic coating is sensitized and a protective coating superimposed upon said layer composed of an alkali soluble resin containing at least about an equal proportion of a material

taken from the class consisting of higher aliphatic mono-carboxylic acids and their water-soluble salts.

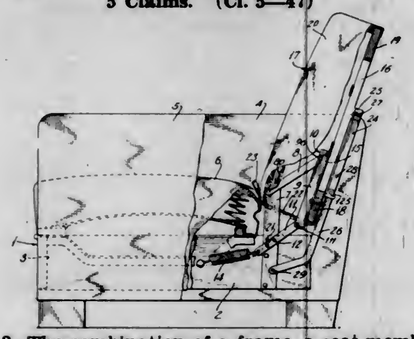
2. A non-halation photographic element comprising a light-transmitting supporting layer, a photographically sensitive layer on one face thereof, an anti-halation layer composed of a water-soluble glue and an anti-halation dye upon the other face and a protective layer superimposed upon said anti-halation layer composed of an alkali soluble resin containing about an equal amount of a surface active substance taken from the class consisting of higher aliphatic mono-carboxylic acids and their water soluble salts.

2,278,458

COMBINATION SEAT AND INTERCHANGEABLE BACK

Joseph Martin, Laurelton, N. Y., assignor to United States Cabinet Bed Co., Brooklyn, N. Y., a corporation of New York

Application June 10, 1940, Serial No. 339,617
5 Claims. (Cl. 5—47)



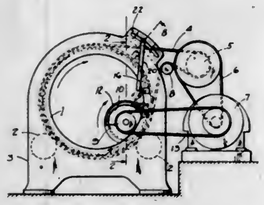
2. The combination of a frame, a seat member secured to said frame, a back member having side bars, and means for connecting said side bars to said frame, each connecting means including a bracket secured to said frame extending upwardly adjacent the rear end of said seat member, a stop pin on each bracket, a lever for each bracket, each lever fulcrumed to one of said brackets with the end of one arm pivotally connected to one side bar and an edge of said lever below its fulcrum point engaging said stop pin in erect position of said back member and such edge of said lever above its fulcrum point engaging said stop pin in horizontal position of said back member, each side bar and associated lever forming a toggle positioned to one side of its dead center in erect position of said back member and to the other side of its dead center in horizontal position, a link for each side bar, each link pivotally connected at one end to said side bar and at its other end to its bracket, the portion of each lever above its fulcrum point extending rearward in back forming position of said back member and extending forward in bed forming position of said back member, and each link extending rearward in both back forming and bed forming positions of said back member, legs, each leg pivotally connected to one of said side bars, and connecting links, each connecting link pivotally connected at one end to one of said legs and at the other end to one of said brackets, the distance from the pivot point of a leg with its side bar to the pivot point of a connecting link with a bracket being greater than the distance from the pivot point of the side bar and one of said first named links to the pivot point of the lever and a bracket.

2,278,459

METHOD OF CUTTING MATERIALS

James F. McCashen, Cleveland Heights, Ohio, assignor to Rotary Cutters, Inc., Cincinnati, Ohio, a corporation of Ohio

Application December 23, 1938, Serial No. 247,385
3 Claims. (Cl. 83—6)



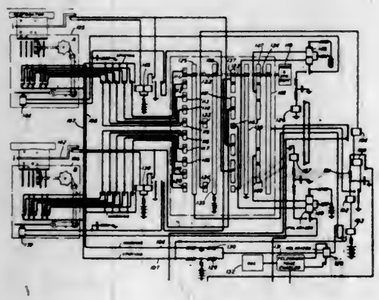
1. The method of cutting materials which comprises the steps of supporting and moving such material on a smooth cylindrical surface under centrifugal force in a circular vertical path surrounding planar cutting means having thin peripheral cutting edges and rotating in the same direction as, and at right angles to, said material, deflecting such material downwardly and inwardly from said supporting surface and cutting the deflected unsupported material by intercepting it with the thin peripheral cutting edges of said means.

2,278,460

CONTROL SYSTEM

Alfred E. Melhose, Westfield, N. J., and Walter W. Tuthill, Jackson Heights, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 29, 1940, Serial No. 354,650
6 Claims. (Cl. 179—4)



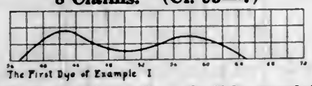
1. In a communication system, a transmission channel, means for normally connecting a means for transmitting a first type of signals over said channel, means for alternatively connecting a means for transmitting a second type of signals over said channel, means responsive to said second type of signals, a chain of switching relays responsive to said last means for controlling said first and said second connecting means, said relays being arranged to respond rapidly and certain of said relays being arranged to release slowly, and an accelerating circuit for said relays, comprising an independent energizing circuit rendered effective only during the forward movement of the armatures of said relays.

2,278,461

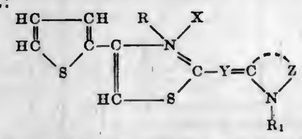
PHOTOGRAPHIC SENSITIZING DYES AND COMPOSITIONS CONTAINING THE SAME

Edmund B. Middleton, Metuchen, N. J., assignor to Du Pont Film Manufacturing Corporation, New York, N. Y., a corporation of Delaware

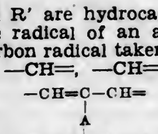
Application January 11, 1939, Serial No. 250,453
8 Claims. (Cl. 95—7)



1. A photographic silver halide emulsion containing a dye having a radical of the general formula:



wherein R and R' are hydrocarbon radicals, X is the negative radical of an acid, Y is a trivalent hydrocarbon radical taken from the group consisting of —CH=, —CH=CH—CH=, and



wherein A is a member of the group consisting of hydrogen and hydrocarbon radicals and Z constitutes the atoms necessary to complete a heterocyclic nitrogen nucleus of the type used in the production of cyanine dyes.

2,278,462

CLOSURE

Joseph M. Montellone, Brooklyn, N. Y., assignor, by mesne assignments, to National Seal Corporation, Brooklyn, N. Y., a corporation of New York

Application October 12, 1934, Serial No. 748,030
2 Claims. (Cl. 215—44)



1. A single shell cap closure for a container comprising a flat crown, a cylindrical skirt depending therefrom having its lower edge rolled inwardly to form a uniformly rounded bead extending around the entire circumference of said skirt in substantial parallelism with said crown, and inwardly projecting locking lugs formed integrally on said bead at spaced-apart points and having flat top surfaces, but otherwise cross-sectionally rounded, the outer raw-edge margins of said lugs being bent downwardly toward said bead to bear with a surface-to-surface contact against the side walls of the skirt to act as abutments for said lugs, said top surfaces engaging the under sides of spaced-apart threads on the container.

2,278,463

EXPANDED FOOD PRODUCT AND METHOD OF PRODUCING THE SAME

Albert Musher, New York, N. Y., assignor, by mesne assignments, to Food Manufacturing Corporation, Chicago, Ill., a corporation of New York

No Drawing. Application September 13, 1938, Serial No. 229,711
17 Claims. (Cl. 99—204)

2. The method of disrupting and expanding the structure of low starch, naturally high water food pieces so as to make them readily water permeable and more quickly cookable, by first drying them to a moisture content substantially lower than their original water content, said moisture content to range between 2% and 35%, and then disrupting their structure without destroying substantially their unity by subjecting them in the presence of heat to an elevated pressure and then instantaneously releasing them to a substantially lower pressure.

2,278,464

MEDICINAL PREPARATION

Albert Musher, New York, N. Y., assignor, by mesne assignments, to Food Manufacturing Corporation, Chicago, Ill., a corporation of New York

No Drawing. Application September 20, 1938, Serial No. 230,843
4 Claims. (Cl. 167—56)

1. An expanded, structure disrupted, medicinal, low starch bulk producing and mucilaginous exuding seed, the interior of which has been expanded to a greater volume than in its original condition, and which interior has been rendered relatively porous and relatively more water absorbent, said expanded seed retaining substantially its unity.

2,278,465

METHOD FOR PRODUCING PREPARED CEREALS, GRAINS, AND SIMILAR PRODUCTS

Albert Musher, New York, N. Y., assignor to Musher Corporation, New York, N. Y., a corporation of New Jersey

No Drawing. Application September 26, 1938, Serial No. 231,640
6 Claims. (Cl. 99—83)

1. The process of preparing an improved high starch food piece, said process comprising boiling the high starch food piece in a concentrated sugar solution, subsequently removing the excess sugar solution therefrom, and then allowing the surface sugar to dry thereon.

2,278,466

QUICKLY DISINTEGRATABLE BONDED FOOD UNIT AND METHOD OF MAKING IT

Albert Musher, New York, N. Y., assignor to Musher Corporation, New York, N. Y., a corporation of New Jersey

Application April 28, 1939, Serial No. 270,516
11 Claims. (Cl. 99—1)

1. A bonded food unit comprising food pieces bound together by sugar, substantially each of the food pieces being coated with a water-repellent substance, said food unit being relatively quickly disintegratable in hot water, said water-repellent substance being relatively hard at room temperature.

2,278,467

NUT

Albert Musher, New York, N. Y., assignor, by mesne assignments, to Food Manufacturing Corporation, Chicago, Ill., a corporation of New York

No Drawing. Application July 7, 1939, Serial No. 283,192
7 Claims. (Cl. 99—128)

1. A steam exploded, structure disrupted nut kernel, said nut kernel retaining substantially its original unity.

5. The method of disrupting the structure of a

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nut, said method comprising subjecting the nut to steam at an increased temperature and pressure and then suddenly releasing it to a lower temperature and pressure.

2,278,468
LEGUME
Albert Musher, New York, N. Y., assignor, by mesne assignments, to Food Manufacturing Corporation, Chicago, Ill., a corporation of New York
No Drawing. Application July 7, 1939, Serial No. 283,193
5 Claims. (Cl. 99—98)

1. The process of preparing a relatively quickly cookable dry legume, said process comprising treating the legume by an aqueous solvent to reduce the starch therein, drying the legume, and then subjecting the legume to steam at an elevated temperature and pressure, and thereafter suddenly releasing to a lower temperature and pressure.

2,278,469
FRUITS AND VEGETABLES
Albert Musher, New York, N. Y., assignor, by mesne assignments, to Food Manufacturing Corporation, Chicago, Ill., a corporation of New York
No Drawing. Application July 8, 1939, Serial No. 283,457
10 Claims. (Cl. 99—104)

1. Structure disrupted, steam exploded, expanded, dehydrated, relatively low starch, relatively high sugar food products selected from the group consisting of fruits and vegetables, said food products retaining substantially their unity, said sugar being in a relatively uncaramelized condition.

4. The method of producing relatively low starch food products selected from the group consisting of fruits and vegetables having relatively quicker cookable quality, said method comprising dehydrating the food products so as to provide a firmer structure, and then subjecting them to steam at an elevated pressure and temperature, and then suddenly releasing them to a substantially lower temperature and pressure, said food products having a moisture content in excess of 2%, and said food products retaining substantially their unity, said food products being dehydrated prior to the steam treatment to a moisture content between 2% and 35%.

2,278,470
STARCHY FOOD MATERIALS
Albert Musher, New York, N. Y., assignor, by mesne assignments, to Food Manufacturing Corporation, Chicago, Ill., a corporation of New York
No Drawing. Application July 18, 1939, Serial No. 285,083
6 Claims. (Cl. 99—104)

1. The process of producing a quickly cookable food piece from a starch-containing food material, said process comprising reducing the starch content of the food material by solvent extraction, then drying it, and then disrupting its structure by subjecting it to steam at an elevated temperature and pressure and thereafter instantaneously releasing to a lower temperature and pressure.

2,278,471
COCOA NIB
Albert Musher, New York, N. Y., assignor, by mesne assignments, to Food Manufacturing Corporation, Chicago, Ill., a corporation of New York
No Drawing. Application July 21, 1939, Serial No. 285,665
4 Claims. (Cl. 99—23)

1. The method of producing an enhanced cocoa nib, said method comprising subjecting the cocoa nib to an elevated temperature and an elevated gas pressure and thereafter suddenly releasing the nib to a lower temperature and pressure, and then roasting the nib.

2,278,472
DEHYDRATED PREFROZEN FOOD PRODUCT
Albert Musher, New York, N. Y., assignor to Musher Corporation, New York, N. Y., a corporation of New Jersey
No Drawing. Application June 27, 1940, Serial No. 342,661
3 Claims. (Cl. 99—199)

1. The process of producing a relatively unexpanded, structure disrupted, substantially dry, quickly water permeable food piece, said process comprising slowly freezing the food piece so as to develop large ice crystals therein and then dehydrating the food piece so as to produce a relatively dry and dehydrated food piece therefrom.

3. The method of producing an exploded, expanded, structure disrupted, water permeable, substantially dry food piece, said method comprising slowly freezing the food piece so as to develop large ice crystals therein, then dehydrating the food piece, and then subjecting the food piece to an elevated pressure and subsequently instantly releasing said pressure to a lower pressure.

2,278,473
COFFEE
Albert Musher, New York, N. Y., assignor to Musher Corporation, New York, N. Y., a corporation of New Jersey
No Drawing. Application March 20, 1941, Serial No. 384,263
9 Claims. (Cl. 99—65)

3. A ground, steam exploded, expanded, structure disrupted coffee bean particle.

4. The method of producing an enhanced coffee bean, said method comprising subjecting the coffee bean to steam at an elevated temperature and pressure and thereafter suddenly releasing the coffee bean to a lower temperature and pressure.

2,278,474
TEA LEAF
Albert Musher, New York, N. Y., assignor, by mesne assignments, to Food Manufacturing Corporation, Chicago, Ill., a corporation of New York
No Drawing. Application May 7, 1941, Serial No. 392,342
5 Claims. (Cl. 99—76)

1. An expanded, steam exploded, dry, unrolled tea leaf, said tea leaf resembling its original leafy condition.

3. The method of producing an expanded unrolled dry tea leaf, said method comprising subjecting the tea leaf to steam at an elevated temperature and pressure, and then suddenly releasing said temperature and pressure to a lower temperature and pressure.

2,278,475
BAKED BEANS AND SIMILAR BAKED PRODUCTS
Albert Musher, New York, N. Y., assignor, by mesne assignments, to Food Manufacturing Corporation, Chicago, Ill., a corporation of New York
No Drawing. Application May 7, 1941, Serial No. 392,344
4 Claims. (Cl. 99—186)

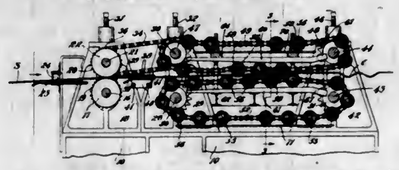
1. A method of producing beans having a baked flavor, said method comprising disrupting the structure of beans by subjecting them to steam at an elevated temperature and pressure followed by instantaneously reducing said temperature and pressure to a lower temperature and pressure, blanching the beans, and thereafter canning the beans.

2,278,476
ANIMAL PROTEIN MATERIAL
Albert Musher, New York, N. Y., assignor, by mesne assignments, to Food Manufacturing Corporation, Chicago, Ill., a corporation of New York
No Drawing. Application September 13, 1941, Serial No. 410,737
5 Claims. (Cl. 99—107)

1. A structure disrupted, steam exploded, dehydrated muscle flesh, animal protein piece.

5. The method of treating animal protein muscle flesh, said method comprising drying the flesh, then subjecting it to steam at an elevated temperature and pressure and then instantaneously releasing the temperature and pressure to a lower temperature and pressure.

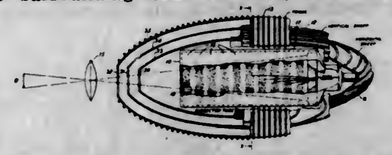
2,278,477
CORRUGATING APPARATUS
Stone Nyberg, Dover, Ohio, assignor to Agnes J. Reeves Greer, Morgantown, W. Va.
Application September 28, 1940, Serial No. 358,862
3 Claims. (Cl. 153—68)



1. Corrugating apparatus comprising two cooperating pairs of endless chains, shafts connecting each pair of chains at irregularly spaced points, rolls journaled upon the shafts and cooperating with each other, rollers journalled upon each shaft independently of the rolls, tracks upon which the rollers ride, said tracks converging toward the discharge end of the apparatus, means for adjusting the tracks relative to each other, and means for driving the chains in unison to convey a sheet of metal between the chains and simultaneously corrugate the sheet by contact with the rolls.

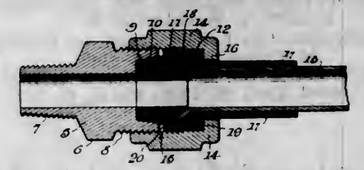
2,278,478
MAGNETIC COIL AND ARRANGEMENT UTILIZING THE SAME
Bernard M. Oliver, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 10, 1941, Serial No. 373,984
3 Claims. (Cl. 178—7.2)

1. Cathode ray directing and deflecting means for the type of cathode ray tube in which a relatively large bundle of cathode rays emitted by the cathode is subjected to a magnetic field produced by a surrounding coil structure to cause said rays to travel in generally parallel paths and said bundle is magnetically deflected as a whole in a direction substantially transverse to said paths by means of a second magnetic surrounding coil structure, said means



comprising a coil structure of general ellipsoidal shape the windings of which lie substantially in planes perpendicular to the direction of the emission of the rays from the cathode and a second substantially ellipsoidal coil structure concentric with said first coil structure the windings of which second coil structure lie substantially in parallel planes transverse to said first coil structure.

2,278,479
TUBE COUPLING
Arthur L. Parker, Cleveland, Ohio
Application December 9, 1939, Serial No. 308,467
1 Claim. (Cl. 285—16)

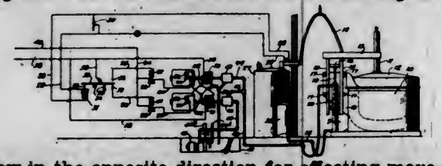


In a coupling for tubes having the ends thereof flared, metallic coupling members having threaded engagement with each other, one of said coupling members having a coniform male seat associated therewith formed of a hard electricity non-conducting material and adapted to engage the inner face of the flared end of a tube, the other of said coupling members having a clamping shoulder, a sleeve formed of a hard electricity non-conducting material surrounding said tube within and extending endwise beyond the clamping shoulder provided coupling member and having a solid head provided with a shoulder against which said clamping shoulder engages and a coniform flare adapted to engage the outer face of the flared end of said tube and a cylindriform skirt surrounding and extending beyond the flared end of said tube, whereby when the coupling members are threaded together with the tube and sleeve between them the tube will be firmly and rigidly clamped and insulated from electricity conducting contact relation with any metallic part of the coupling and said skirt will prevent spreading of the flared tube end into contact with any metallic part of the coupling.

2,278,480
MEANS FOR AUTOMATICALLY CONTROLLING THE ELECTRODES OF ARC FURNACES
William Harvey Payne, La Grange, Ill.
Application December 27, 1940, Serial No. 371,940
12 Claims. (Cl. 13—13)

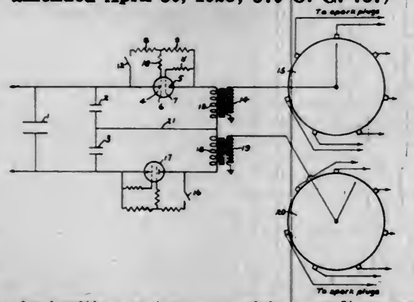
12. In an electric arc melting furnace, an arc-

ing electrode and a movable arm carrying the electrode and the heating current connection to the electrode, and means for guiding the arm for vertical movement, liquid - pressure - actuated means engaging the arm, arc-variation-actuated means for controlling the flow of liquid pressure to said liquid-pressure-actuated means, said flow in one direction acting to effect a movement of the arm and electrode in a corresponding direction and like means for controlling the



flow in the opposite direction for effecting movement of the arm and electrode in the correspondingly opposite direction, said means in the two cases including non-concurrently operable sequentially operated valve members adapted each to give instant valve port overlap travel followed by retarded progressive valve opening and thereafter by instantaneous snap closure of the valves as soon as the electrode movement has restored the desired arcing conditions.

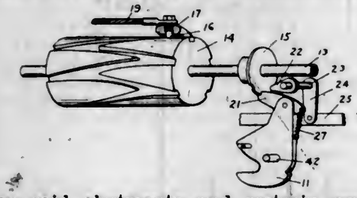
2,278,481
CONDENSER DISCHARGE IGNITION SYSTEM
Melville F. Peters, Beltsville, Md., and George F. Blackburn, Washington, D. C.
Application July 3, 1940, Serial No. 343,734
15 Claims. (Cl. 123—148)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. An ignition system comprising a voltage supply, an induction coil, means normally blocking the flow of current from said supply to said coil, a condenser so arranged in circuit with said supply, said coil, and said blocking means that it will be charged while said blocking means is in operation and will discharge through the primary of said coil when the circuit across said blocking means is completed, means periodically operating to close said circuit across said blocking means, and means delaying the passage of electrical energy through said circuit until the operation of said circuit closing means is complete.

2,278,482
AIRCRAFT ARMAMENT
Alexander M. Pishvanov, Hempstead, N. Y., assignor to Republic Aviation Corporation, a corporation of Delaware
Application May 28, 1938, Serial No. 210,628
4 Claims. (Cl. 89—1.5)

1. In a bomb-rack of the type comprising a frame and a plurality of hooks pivotally mounted upon the frame, each adapted to suspend a bomb and adapted to be swung by the weight of the bomb to release said bomb therefrom, release-control means comprising a rotatably supported shaft, abutments fixed upon the shaft arranged in angularly-offset relation, pivoted fingers mounted upon the hooks and adapted to normally



engage said abutments and restrain swinging movement of the hooks, means for rotating the shaft to successively move the abutments out of restraining position with respect to said fingers, and means operable independently of the shaft-rotating means for simultaneously moving the fingers out of engagement with said abutments to allow the hooks to swing to bomb-release position.

2,278,483
METHOD OF TREATING CACAO BEANS
William J. Plews, Chicago, Ill., assignor to Food Manufacturing Corporation, a corporation of New York
No Drawing. Application February 20, 1939, Serial No. 257,465. In Canada May 23, 1938
9 Claims. (Cl. 99—23)

1. The method of treating cacao beans of commerce which comprises subjecting said beans directly to the action of superheated steam at superatmospheric pressures for a time at least sufficient to loosen the shells, and thereafter suddenly reducing the pressure.

9. Cocoa powder obtained by crushing cacao beans of commerce which have been subjected directly, for a period of approximately five seconds to approximately fifty seconds, to gas pressure substantially in excess of 50 pounds per square inch, by means of steam superheated from approximately 100° F. to approximately 200° F., and then suddenly released from such pressure.

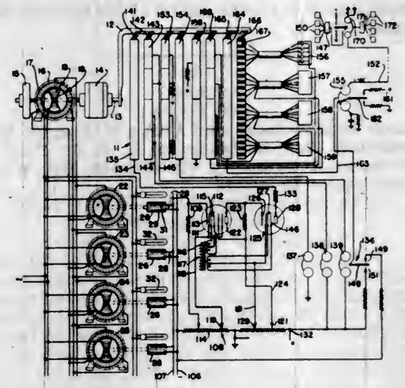
2,278,484
GREEN AND YELLOW PEA
William J. Plews, Chicago, Ill., assignor to Food Manufacturing Corporation, a corporation of New York
No Drawing. Application April 10, 1941, Serial No. 387,870
8 Claims. (Cl. 99—98)

1. A steam exploded, expanded pea, said pea being selected from the group consisting of green and yellow peas and said pea exhibiting the quality of forming an instantly water absorbent and water wettable pea powder when said pea is powdered, the cell structure of the pea being sufficiently disrupted to produce the enhanced water absorptive property.

2,278,485
PHOTOELECTRIC TRANSMITTER
Louis M. Potts, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application December 22, 1938, Serial No. 247,181
32 Claims. (Cl. 178—50)

1. In a multiplex signaling system, a plurality

of photoelectric transmitters, each transmitter comprising a cylindrical scanning device having a helically arranged series of slots, one correspond-

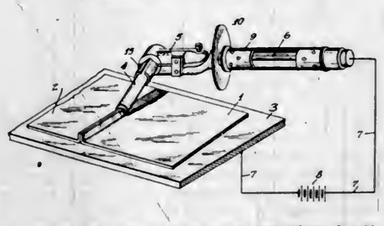


ing to each element of a code, and means whereby each scanning device acts in succession as a transmitting distributor for the signals controlled by the transmitter of which it forms a part.

2,278,486
CELLULAR REFRACTORY
Wirt S. Quigley and Jay Gould Coutant, New York, N. Y., assignors to Quigley Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application September 26, 1936, Serial No. 102,816
2 Claims. (Cl. 106—64)

1. A stable and high-insulating and refractory block, layer or other product, composed of an expanded and set mixture containing a fine aggregate of the order of 150-mesh of indurated fireclay particles and a hydraulic mement, and free of any coarse aggregate; said product having a structure containing relatively large gas-filled globular cells of visible size separated by relatively thin refractory walls, and said thin separating walls being composed of said fireclay particles and cement and being highly porous by reason of said indurated fireclay particles containing minute voids of microscopic character; whereby to constitute an insulating product of very light weight adapted to withstand continued exposure to furnace temperatures.

2,278,487
ELECTRICAL WELDING
Alexander Rákos, Vienna, Austria
Application April 17, 1937, Serial No. 137,392
In Austria July 13, 1936
3 Claims. (Cl. 219—10)



1. A method of electrically welding bodies of metal material melting considerably below 2000° C. and covered by an oxide layer, along a desired seam, comprising the steps of inserting the bodies to be welded and a heater body melting considerably above 2500° C., in a low voltage circuit so that the current can pass said bodies in parallel and in series therewith said heater body, closing said circuit by contacting said bodies with said heater body at a place to be welded, adjusting said circuit so as to heat said heater body to temperatures within and above the temperature range of about 2000° to 2500° C., thereby instantly melting and over-heating locally metal and oxide close to and in considerable amount ahead of said contacted place by the heat evolved by said heater body, and moving said heater body with an inclination considerably greater than 90° towards its direction of movement along the seam and in contact with the overheated melt thus formed, thereby causing successive portions of metal and oxide ahead and in contact with said heater body to be melted in contact with said overheated melt and by heat evolved by said heater body and protecting the portion of the seam welded just behind said heater body against access of air.

2,278,488
WATER TREATING APPARATUS
Glenn S. Ralston, Rockford, Ill., assignor to Servisoft, Inc., Rockford, Ill., a corporation of Illinois
Application July 29, 1937, Serial No. 156,276
4 Claims. (Cl. 210—24)



1. A water treating apparatus comprising, in combination, an elongated upright tank adapted to be connected in a water supply line for the flow of water therethrough from end to end and having an opening at its upper end for exposing the tank substantially to its full internal cross-section at the upper end thereof, said tank having a smooth interior wall defining an elongated chamber tapering outwardly toward said opening, a removable cover for closing said opening, and a removable cartridge in said tank chamber comprising a sack containing granular water treating mineral and composed of flexible material with water pervious ends and an effective cross-sectional area greater than the internal cross-section of said tank so as to expand automatically under the weight of said mineral into liquid sealing engagement with the internal walls, said mineral partially filling said sack whereby to permit of reduction in the cross-section of the cartridge for insertion and removal thereof

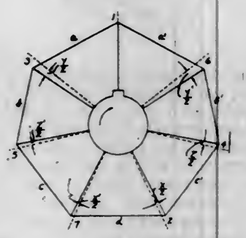
in said tank, said tapered shape of said tank permitting ready removal of said sack upon applying a lifting force thereto.

2,278,489
MAGNETO-ELECTRIC MACHINE
George William Rawlings, Kenilworth, England
Application May 10, 1937, Serial No. 141,669
In Great Britain May 12, 1936
2 Claims. (Cl. 171—209)



1. A dynamo which comprises a continuous ring permanent magnet having at least four magnetic poles of alternate polarity, an armature having the same number of poles as the ring magnet, the inner contour of the ring magnet comprising alternate polar projections and arched interpolar spaces, the interpolar contour of each interpolar space being substantially along an arched line connecting the inner extremities of the polar projections, the formation of the magnet between the polar projections conforming to the natural path of the armature reaction flux in air, so that the reaction flux effectively restricts the flux of the permanent magnet, the dynamo having the characteristics of load voltage/speed regulation combined with high specific output.

2,278,490
IGNITION SYSTEM
John J. Rose, Dayton, Ohio
Application May 26, 1938, Serial No. 210,250
7 Claims. (Cl. 123—55)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



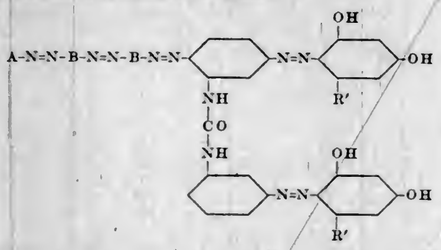
7. An ignition system for internal combustion engines of the radial cylinder type provided with a master connecting rod and secondary connecting rods pivoted thereto, and having non-symmetrical firing intervals due to the irregularities of said connecting rods, including a source of ignition current, means for periodically interrupting the flow of said ignition current and means for distributing said ignition current to the various cylinders in firing sequence, one of said means being adapted to perform its function in said non-symmetrical firing intervals to thereby initiate combustion at the same period of the cycle in each cylinder.

2,278,491
AZO DYES
Swanie S. Rossander and Chiles E. Sparks, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 13, 1940, Serial No. 345,304
5 Claims. (Cl. 260—173)

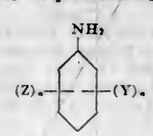
1. The compounds represented by the formula: A—N=N—B—N=N—B—N=N-urea-meta-phenylene-diamine in which A is the radical of a compound from the group consisting of the benzene and naphthalene series; and each B is the radical of a compound from the group consisting of the benzene and naphthalene series and the benzamido and naphthamido derivatives thereof the compounds having 2 to 4 sulfonic acid groups to insure satisfactory solubility characteristics.

2,278,492
PENTAKISAZO DYE
Swanie S. Rossander and Chiles E. Sparks, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 15, 1940, Serial No. 361,267
16 Claims. (Cl. 260—144)

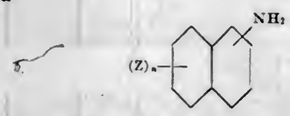
1. A compound which in the form of its acid is represented by the formula



wherein A is the radical of a diazotizable arylamine of a group consisting of the amino benzenes and amino naphthalenes represented by the formulae

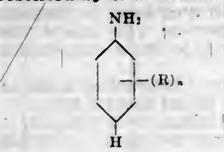


and

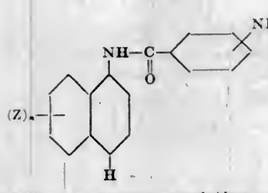


in which Y is from a group consisting of hydrogen, alkyl having 1 to 6 carbons, the corresponding alkoxy groups, halogen and nitro, n is 1 to 2 and Z is from a group consisting of hydrogen and sulfonic acid; each B is a residue after

coupling and diazotization of an arylamine of a group represented by the formulae

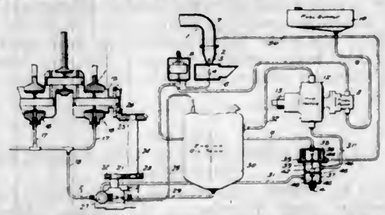


and



wherein R is from a group consisting of hydrogen, alkyl having 1 to 6 carbons and the corresponding alkoxy groups, —H represents the coupling position and n is 1 to 2; and R′ is one of a group consisting of hydrogen, alkyl having 1 to 6 carbons, the corresponding alkoxy groups, hydroxy, amino, halogen, cyano, carboxy and sulfonic acid; said compound containing at least one sulfonic acid group.

2,278,493
HYDRAULIC DRIVE FUEL SYSTEM
David Samiran and Roy B. Poole, Dayton, Ohio
Application March 4, 1941, Serial No. 381,690
6 Claims. (Cl. 123—140)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A fuel system for an internal combustion engine having a relief valve controlled pressure oiling system comprising, a source of fuel supply, a constant displacement fuel pump connected to said supply, a fuel conduit connnected to the output side of said pump for conducting fuel under pressure to the engine for consumption thereby, a hydraulic motor for driving said pump, a fluid circuit connecting said engine oiling system and said motor including an oil pressure conduit and an oil return conduit, a throttle valve in said pressure conduit for controlling the admission of motive fluid to said motor, and pressure responsive means responsive to variation in fuel pressure in said fuel conduit from a predetermined value for controlling said valve means to thereby control the speed of said hydraulic motor and said fuel pump to maintain the fuel pressure in said fuel conduit substantially constant.

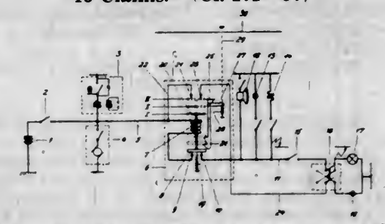
2,278,494
METHOD OF WORKING STEEL, AND PRODUCTS THEREOF
Henry S. Schaufus, Baltimore, Md., assignor to Rustless Iron and Steel Corporation, a corporation of Delaware
No Drawing. Application October 31, 1938, Serial No. 238,082
1 Claim. (Cl. 148—12)

In manufactures of the class described, ferritic and martensitic stainless iron and steel bars, rods and wire of enlarged grain size and good cold-heading and cold-upsetting properties, said steel bars, rods and wire comprising 10% to 35% chromium and subjected to a cold-drawn reduction of 3 per cent to 15 per cent and a subsequent annealing treatment at a temperature of 1400° F. to 1800° F.

2,278,495
METHOD OF WORKING STEEL, AND PRODUCTS THEREOF
Henry S. Schaufus, Baltimore, Md., assignor to Rustless Iron and Steel Corporation, Baltimore, Md., a corporation of Delaware
No Drawing. Original application October 31, 1938, Serial No. 238,082. Divided and this application February 23, 1940, Serial No. 320,512
1 Claim. (Cl. 148—12)

In manufactures of the class described, austenitic stainless iron and steel bars, rods and wire, of enlarged grain size and good cold-heading and cold-upsetting properties, comprising 10 per cent to 35 per cent chromium, 6 per cent to 35 per cent nickel and the balance substantially iron, subjected to a cold-drawing reduction of 3 per cent to 12 per cent and a subsequent annealing treatment at a temperature of 1800° F. to 2200° F.

2,278,496
ELECTRICAL DISTRIBUTION SYSTEM
Karl Schmitt, Stuttgart-Degerloch, Germany, assignor to Dr. ing. h. c. F. Porsche K.-G., Stuttgart-Zuffenhausen, Germany, a company of Germany
Application June 22, 1939, Serial No. 280,529
In Germany June 30, 1938
15 Claims. (Cl. 171—97)



14. In an electrical distribution system for vehicles, a source of power, one or more main loads, one of which is a first headlight source, a second headlight source, switching means normally connecting said source of power with said main

load and responsive to a flow of current above a predetermined maximum for disconnecting said main load and substantially simultaneoulsy connecting said second headlight source to said source of power, means for automatically holding said switching means to maintain the connection to said second headlight source after the current flow drops below said predetermined maximum, and hand-operated means for releasing said automatic means to permit the return of said switching means to its normal connecting position after the current flow drops below said predetermined maximum.

2,278,497
HYDROMETER
John Leonard Schwartz, Philadelphia, Pa., assignor to Philadelphia Thermometer Company, Philadelphia, Pa., a partnership
Application August 22, 1936, Serial No. 97,321
8 Claims. (Cl. 265—45)



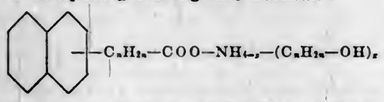
1. In hydrometers, a body portion, a funnel fused thereto transversely thereof, a portion of the body portion beyond the funnel fused into a round end spaced from the funnel to form a mercury compartment, mercury in the compartment, the end of the funnel spaced from the surrounding walls by a clearance such as to keep the tip of the funnel out of immersed relation to the mercury in all stationary adjusted positions of the body.

2,278,498
REMOVAL OF SULPHUR FROM ORGANIC SUBSTANCES
Bernard H. Shoemaker, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application February 16, 1939, Serial No. 256,722
12 Claims. (Cl. 196—30)

1. The method of removing sulphur from a material containing the same, comprising treating said material with an ammonium sulphur compound in which at least one of the hydrogen atoms has been substituted by a hydrocarbon radical, said ammonium sulphur compound being capable of forming a hydrocarbon substituted ammonium thiosulphate when reacted with said sulphur, and subsequently separating and removing the hydrocarbon substituted ammonium thiosulphate so formed.

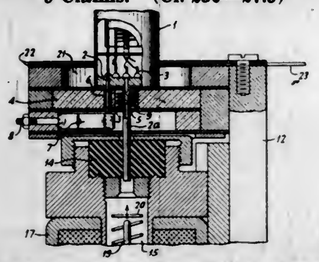
2,278,499
AMINE SALTS
Frank B. Smith and John N. Hansen, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application June 15, 1940, Serial No. 340,846
11 Claims. (Cl. 260—501)

1. A compound having the formula:



wherein n is an integer, and x is an integer not greater than 3.

2,278,500
VACUUM TUBE SEAL-OFF
Newell R. Smith, Bloomfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 31, 1941, Serial No. 376,811
9 Claims. (Cl. 250—27.5)

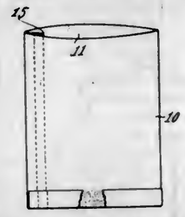


1. A machine for exhausting and sealing an envelope having an exhaust tube and a lead-in conductor extending side-by-side from the envelope, comprising a supporting plate of insulating material of a less thickness than the external length of said conductor, said plate having a hole for said conductor and a port for said exhaust tube, a contactor on the under-side of said plate in alignment with said hole for electrically connecting to said conductor, an electrical heating element within said plate and disposed immediately around without obstructing said port, a cooling chamber on the upper side of said plate, an exhaust bushing with a central opening coaxial with said port for making a hermetic connection with the end of said exhaust tube, a reciprocatable push-rod in alignment with the bushing opening, said plate, contactor and cooling chamber being assembled as a unit and movable with respect to said bushing along a line through said port and bushing opening.

2,278,501
GLASS COMPOSITION AND PRODUCT THEREOF
Edgar D. Tillyer and Harold R. Moulton, Southbridge, and Townsend M. Gunn, Attleboro, Mass., assignors to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
No Drawing. Application May 12, 1939, Serial No. 273,362
16 Claims. (Cl. 106—52)

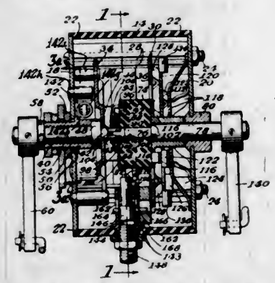
1. A substantially colorless light transmitting medium having the property of selectively absorbing extra visual radiations, said medium being commercially free from compounds of boron and having the contents of silicon compounds less than 1% and comprising, as a major constituent, an oxide of phosphorus to the extent of at least 50%, with minor quantities of ingredients selected from alkali and alkaline earth groups and stabilized against chemical attack by means of a stabilizer having the stabilizing characteristics of and comprising an aluminum compound and beryllium compound and containing compounds for absorbing extra visual radiations.

2,278,502
CONTAINER AND PACKAGE
Harry F. Waters, New York, N. Y.
Application July 18, 1936, Serial No. 91,363
6 Claims. (Cl. 229—3.5)



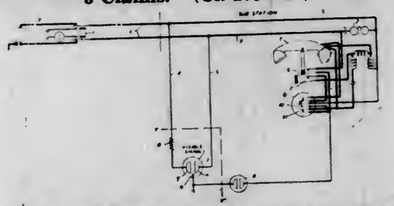
1. A plural ply open-mouthed bag comprising an inner ply of heat-fusible material and an outer ply of other flexible material, said inner ply having an interior of integral nature with two of its seams formed by fusion, at least one of said fused seams being transverse the bag and being faced on both sides by the outer ply secured thereto.

2,278,503
SIGNAL SWITCH
Paul Weien, Marietta, Pa., assignor of one-half to Henry S. Rich, Jr., Marietta, Pa.
Application January 3, 1941, Serial No. 372,955
13 Claims. (Cl. 200—59)



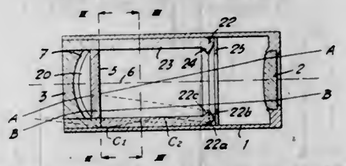
1. In a signal switch, the combination of two movable members; two first contacts carried by one of said members insulated from each other; another contact adapted to be directly connected with a source of current; means establishing electrical connection between said other contact and said first contacts, respectively, on movement of a certain one of said members from a neutral position in opposite directions, respectively, relative to the other member in a neutral position, said means being inoperative on movement of said other member from its neutral position in either direction relative to said certain member in its neutral position; and means causing disengagement of the engaged contacts on relative movement between said members into their neutral relative position.

2,278,504
TELEPHONE SIGNALING SYSTEM
Charles A. Wingardner, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 8, 1941, Serial No. 382,347
3 Claims. (Cl. 179—81)



3. In an automatic telephone system comprising a dial subscriber's station and a line having a glow-discharge tube connected between one side thereof and ground, as a visual ringing signal, and means for preventing false glow discharges in said tube during dialing from the station which comprises a second space discharge tube arranged to be connected in shunt with the first tube, responsive to connection of the subscriber's dial on the line.

2,278,505
VIEW FINDER FOR PHOTOGRAPHIC APPARATUS
Walter Zapp, Riga, Latvia, assignor to Valsts Elektrotechniska Fabrika, Riga, Latvia, a state company of Latvia
Application January 9, 1939, Serial No. 250,048
In Sweden January 10, 1938
7 Claims. (Cl. 88—1.5)

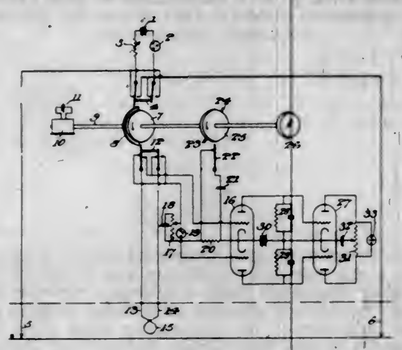


1. In a view-finder for photographic apparatus, in combination, an opaque tubular casing, a negative objective at one end of said casing, a positive ocular at the other end of said casing, a transparent mirror located in said casing near the objective substantially at right angles to the axis of the view-finder, a frame-shaped reflecting member located in said casing near the ocular having totally reflecting surfaces which direct light to the margin of the mirror from a tubular light-conducting element arranged longitudinally in said casing and extending from the objective to the frame-shaped reflecting member, which tubular light-conducting element comprises parallel surfaces reflecting against each other.

2,278,506
APPARATUS FOR GEOPHYSICAL PROSPECTING
Theodor Zuschlag, West Englewood, N. J., assignor, by mesne assignments, to Lundberg Exploration S. A., Panama City, Panama, a corporation of Panama
Application October 4, 1939, Serial No. 297,828
9 Claims. (Cl. 175—182)

1. Apparatus for detailed analysis of electrical ground transients comprising, a source of direct electric current flow, means for intermittently

reversing said flow, pickup means, means for reversing the output of the pickup means, an indicating device which is normally non-conductive, periodically operating timing means for rendering said device conductive for short and preselected time periods during the current flow, means to balance said indicating device, and means for reading the time and amplitude constants of the measured ground transients.

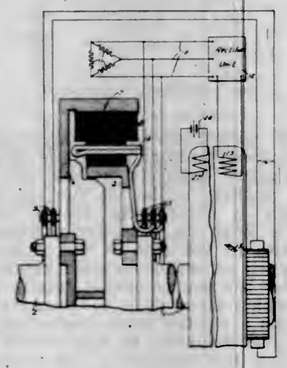


2,278,507

ELECTROMAGNETIC COUPLING

René A. Baudry, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application December 21, 1939, Serial No. 310,474
5 Claims. (Cl. 172—284)



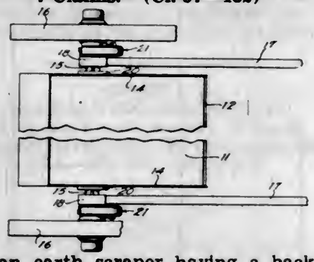
1. An electromagnetic coupling comprising, in combination, a driving member, a driven member, one of said members having magnetic poles, a source of direct current for energizing said poles the other member having a wound rotor winding into which is induced alternating current by the field of said poles as the result of and in proportion to the slip between the driving and driven members, slip rings acting as terminals for said wound rotor winding and means external of said slip rings for rectifying said alternating current and means for using the rectified current to control the direct current source for said direct current energized magnetic poles thereby producing direct current excitation which is proportional to slip.

2,278,508

BACK DUMP MECHANISM

Leo Berner, Huntington Park, and Claude B. Ogle, Los Angeles, Calif., assignors to Atlas Scraper and Engineering Co., Bell, Calif., a corporation of California

Application September 5, 1939, Serial No. 293,416
7 Claims. (Cl. 37—132)



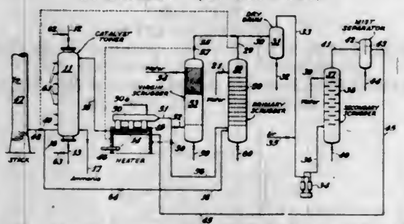
6. In an earth scraper having a back dump means, the combination of: a bowl; axles extending outward from said bowl; a draft frame connected to said axles; wheels rotatable on said axles; and latch means positioned between said bowl and one of said wheels for locking said last named wheel from rearward rotation relative to the axle on which it is mounted when said last named wheel is rotated in a rearward direction.

2,278,509

CATALYST REGENERATION

Will K. Brown, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application June 30, 1938, Serial No. 216,700
12 Claims. (Cl. 252—242)



1. In the process of revivifying a solid catalyst-mass which becomes impaired by contact with excessive amounts of steam at high temperatures and upon which is deposited a coke-like material, the steps comprising passing therethrough a hot flue gas containing controlled amounts of oxygen to burn off the coke-like material and revivify the catalyst, scrubbing the used flue gas with a cool scrubbing medium to remove excessive amounts of water vapor therefrom, compressing the scrubbed flue gas, heating the compressed flue gas and returning it with controlled amounts of oxygen to the revivification step.

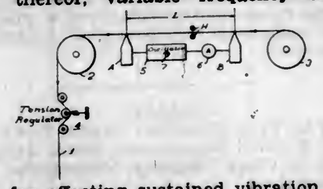
2,278,510

SENSITIVE DEVICE FOR MEASURING LINEAR DENSITY OF WIRE

Edward U. Condon, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 26, 1939, Serial No. 286,629
5 Claims. (Cl. 73—51)

1. Apparatus for measuring the mass per unit length of a continuously moving wire while it is in motion which comprises means for maintaining said wire under substantially constant known tension, a pair of spaced supporting members for said wire in continuous sliding contact therewith and so spaced as to select a particular known length thereof, variable frequency electrical means for effecting sustained vibration of said wire and which is adjustable to a frequency which corresponds to the natural resonance frequency of said length of wire whereby the mass per unit length of said wire may be calculated from the characteristics present under the aforesaid resonance condition.

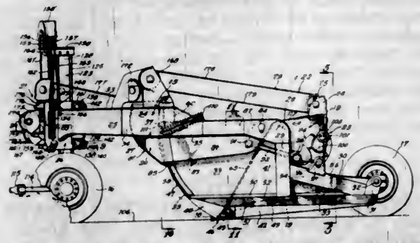


2,278,511

SCRAPER

John M. Corbett, Huntington Park, and Robert Bruce Magee, Los Angeles, Calif., assignors, by mesne assignments, to The Buckeye Traction Ditcher Company, Findlay, Ohio

Application July 18, 1938, Serial No. 219,806
7 Claims. (Cl. 37—126)



1. In an earth working device of the character described, the combination of: a frame member; a bowl member mounted on said frame so as to be moved between working position and carrying and dumping positions; means for so moving said bowl member; an auxiliary load carrying member mounted so as to have movement between operative and inoperative positions relative to said bowl member; and means disposed so as to be out of operative engagement with said bowl when the same is in said dumping and working positions and so as to receive movement from said bowl member as the same is moved between said working position and said carrying position and to transmit said movement to said auxiliary member to accomplish movement thereof between said inoperative and operative positions.

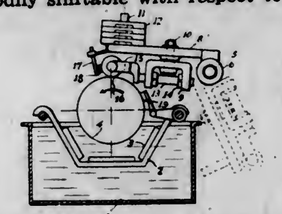
2,278,512

APPARATUS FOR OBTAINING ETCHABLE DEPOSITS ON PRINTING CYLINDERS

Arnold August Egli, Zurich, Switzerland, and Carl Bökenkamp, Hamburg, Germany, assignors to Langbein - Pfanhauser - Werke Aktiengesellschaft, Leipzig, Germany

Application February 21, 1938, Serial No. 191,760
In Switzerland February 22, 1937
11 Claims. (Cl. 204—217)

1. An apparatus for electroplating etchable deposits upon a rotating cylindrical base, comprising a slide and mechanism to reciprocate said slide uniformly to and fro in a direction parallel to the axis of said base, an idle roller journalled in said slide about an axis substantially parallel to the axis of and above said base so as to roll uniformly over the deposit on said base, means attaching said roller to said slide so as to be freely bodily shiftable with respect to said slide during reciprocation thereof about an axis perpendicular to the common tangential plane of the base and roller and spaced from the point of tangency, whereby said roller can freely roll over said base in reversed helical paths without sliding as the result of the rotation of said base and the reciprocation of said slide.

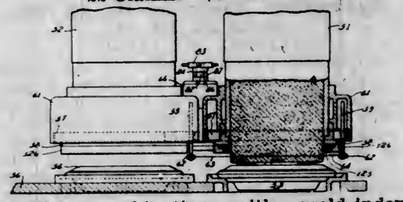


2,278,513

CUTOFF APPARATUS FOR PLASTIC MATERIAL

Walter H. Emerson, East Liverpool, Ohio, assignor to The Homer Laughlin China Company, Newell, W. Va., a corporation of Delaware

Application December 30, 1939, Serial No. 311,719
22 Claims. (Cl. 25—11)



21. The combination with mold-indexing means provided with a plurality of stations, of a pair of tubes disposed with their lower ends above a pair of adjacent stations of said means, a pair of plungers for extruding a pug of plastic material from the lower end of first one tube and then the other, fluid pressure operated means for moving the plungers forward alternately independently of each other, a substantially horizontal cut-off wire, means for carrying the wire beneath first one tube and then the other to sever a blank from the pug from one tube in synchronism with said indexing means, means for momentarily changing the speed of travel of said wire-carrying means to synchronize the cutting of blanks from a pug from the other tube with said indexing means, a tripping member for actuating said rate-changing means, a piston for actuating said member, a fluid pressure cylinder housing the piston, and means connecting said cylinder with said fluid pressure.

2,278,514

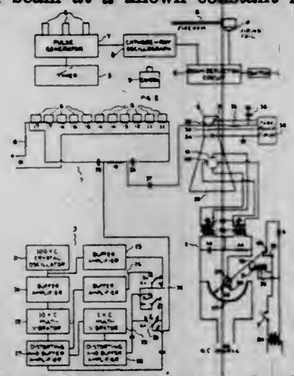
CHRONOGRAPHIC METHOD AND APPARATUS

Edwin F. Florman, Godfrey Township, Madison County, Ill., assignor to Western Cartridge Company, East Alton, Ill., a corporation of Delaware

Application November 22, 1939, Serial No. 305,629
9 Claims. (Cl. 234—36.5)

8. Chronographic apparatus comprising the

combination of means for generating a beam of cathode rays, means for varying the intensity of the said beam at a known constant frequency,



means for deflecting the beam to describe a single-scan compact trace thereof, and means for interrupting the said beam at the beginning and the end of a time interval under measurement.

2,278,515

LAMINATED FILM PROTECTED SURFACE

Donald L. Gibb and Albert B. Savage, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application May 10, 1939, Serial No. 272,794
3 Claims. (Cl. 154—2)

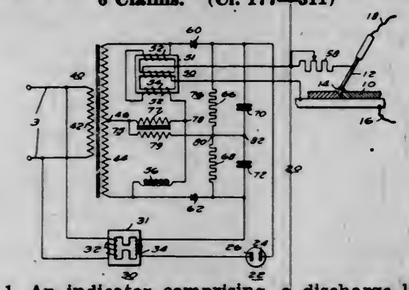
1. A composite article consisting of a supporting surface coated with a protective two-layer film, the exposed surface of the film consisting of ethyl cellulose having a viscosity greater than 30 centipoises and an ethoxy value of from 43 to 46 per cent united to the supporting surface by a co-extensive layer of a heat and pressure sensitive composition of a low viscosity type of ethyl cellulose of ethoxy value from 46.5 to 49.5 per cent plasticized with from 20 to 50 per cent of a softening plasticizer sufficient to make the composition flowable under a pressure of from 1 to 80 pounds per square inch at temperatures between 75° and 150° C., but insufficient to make the composition tacky at room temperature.

2,278,516

VOLTAGE INDICATOR

Finn H. Gulliksen, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application September 7, 1939, Serial No. 293,729
6 Claims. (Cl. 177—311)



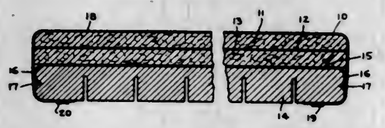
1. An indicator comprising, a discharge lamp having a pair of electrodes, circuit means for applying an alternating current voltage to the electrodes of a value insufficient to produce a glow discharge at either of the electrodes, and means connected to the circuit means for superimposing on the alternating current voltage a reversible direct control voltage of a value sufficient to selectively produce glow discharges at the electrodes.

2,278,517

PAD FOR IRONING TABLE TOPS

Edward T. John, Minneapolis, Minn., assignor to The J. R. Clark Company, Minneapolis, Minn., a corporation

Application January 13, 1940, Serial No. 313,653
1 Claim. (Cl. 38—140)



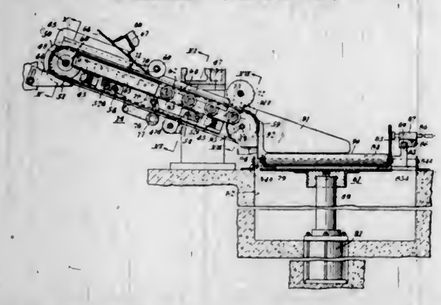
In association with an ironing table top including a wood base member and an overlying sheet metal cover secured thereto, a pad for said table top embodying two layers of fibrous heat-insulating material each layer of substantial thickness, a layer of metal foil between them which is impervious to the passage of water or steam and which is protected in use by the said fibrous layers, a fabric cover adapted to overlie and hold the pad in position on the table top, the said fibrous layers being adapted to directly contact the surface of the sheet metal cover with one side and to be contacted by the fabric cover at its other side.

2,278,518

APPARATUS FOR CLASSIFYING SHEETS

John S. Kenney, Rayland, Ohio, and Alonzo L. Milton, Wheeling, W. Va., assignors to Wheeling Steel Corporation, Wheeling, W. Va., a corporation of Delaware

Application August 18, 1939, Serial No. 290,802
5 Claims. (Cl. 271—64)



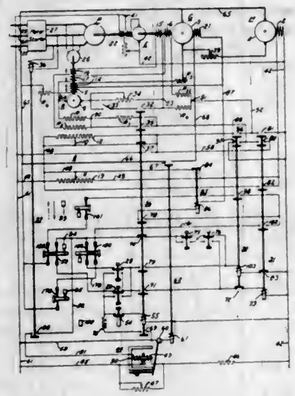
1. Sheet-classifying apparatus comprising spaced bearings, a roll journaled therein, spaced housings journaled on the necks of said roll, a second roll journaled in said housings and cooperating with said first-mentioned roll, means for driving said rolls, conveyors extending in different directions from points adjacent the discharge side of said rolls, and means for tilting said housings to cause sheets discharged by said rolls to be delivered to said conveyors selectively.

2,278,519

VARIABLE VOLTAGE CONTROL SYSTEM

George E. King, Wilkinsburg, William R. Harding, Pittsburgh, and William F. Eames, Edgewood, Pa., assignors to Westinghouse Electric & Manufacting Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 30, 1938, Serial No. 198,884
7 Claims. (Cl. 172—239)



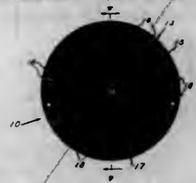
1. In a variable voltage control system, in combination, a motor, a generator electrically connected to the motor, a pair of main field windings for said generator, a pair of resistors one in series circuit respectively with each main field winding to thus make the circuit of each main field winding of relatively high resistance value, a controller for connecting the main field windings and the resistors in series therewith to a control source of energy in a plurality of different steps to effect changes in the speed of the motor, and a regulator-generator connected to vary the flow of current through the main field windings and the resistors in series therewith, independently of the current flow therethrough from said control source of energy, to maintain the speed of said motor at a predetermined or selected different speeds, each speed corresponding to the step selected by said controller, said regulator-generator having an armature winding, a series field winding, a shunt field winding a pair of differential field windings, said series and shunt field windings being disposed to be differentially related to each other and respectively responsive to the current and voltage supplied to said motor from said generator, said armature winding of said regulator-generator, including in its armature circuit a resistor adapted to be connected in series circuit with said armature winding, means for shunting said resistor, and means for also adjusting the resistance value of said resistor, being connected across one pair of opposite terminals of a normally balanced Wheatstone bridge circuit, the remaining pair of terminals of said bridge circuit being connected through said controller to said control source of energy, one of the arms of said bridge circuit including one of the pair of resistors and one of the pair of said main field windings and, in series circuit therewith, one of the said pair of differential field windings of said regulator-generator and the diametrically opposite arm of said bridge circuit including the other one of said pair of resistors and the other one of the said pair of main field windings and, in series circuit therewith, the other of said pair of differential field windings of said regulator-generator.

2,278,520

ILLUMINABLE PANEL, DIAL, AND POINTER STRUCTURE

Maximilian Klein, Sellersville, and William E. Pfeffer, South Perkasie, Pa., assignors to United States Gauge Company, Sellersville, Pa., a corporation of Pennsylvania

Application November 29, 1938, Serial No. 243,044
5 Claims. (Cl. 116—129)



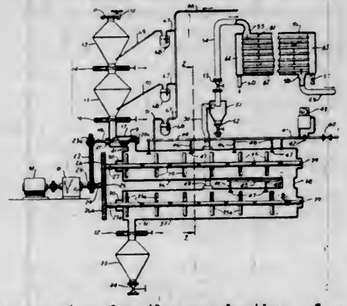
1. A non-glaring, edge illuminable indicia-bearing element, comprising a body of translucent material, a light transmitting coating applied over one side of said body and an opaque coating applied over said first-named coating except at portions thereof, the interruptions of said opaque coating providing indicia, and means to minimize glare at the interruptions adjacent the source of edge illumination, comprising means to reflect and disperse light into the more remote interruptions.

2,278,521

APPARATUS FOR PRODUCING ACETYLENE AND LIME HYDRATE

Hugo V. Kojola, Kenmore, N. Y., and Maurice O'Brian, Indianapolis, Ind., assignors to The Prest-O-Lite Company, Inc., a corporation of New York

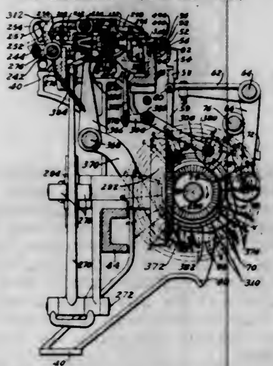
Original application March 27, 1936, Serial No. 71,210. Divided and this application November 18, 1939, Serial No. 305,080
10 Claims. (Cl. 48—4)



1. Apparatus for the production of a gas by the exothermic reaction of a solid and a liquid, which comprises a hopper adapted for storing such solid, a horizontal reaction chamber, means for feeding such solid from said hopper into said reaction chamber, means for conveying and agitating such solid along a predetermined path in said reaction chamber, means for contacting such solid with such liquid at a plurality of successive points along said path, means for regulating such liquid in total amount so that such solid is contacted with an amount of such liquid only slightly in excess of that theoretically required to react such solid completely and so that substantially dry gaseous and solid reaction products are produced, means for withdrawing the generated gas from said reaction chamber at a plurality of points along said path so as to minimize the period of contact of said gas with the

heated reactants, and means for discharging the final solid products of reaction from said reaction chamber.

2,278,522
KNITTING MACHINE
Max C. Miller, Cumberland, R. I.
Application June 9, 1938, Serial No. 212,703
78 Claims. (Cl. 66—82)



1. In a knitting machine having knitting instrumentalities including needles, implements cooperating therewith to form knitted loops, and means for feeding yarn to said instrumentalities, the combination of fluid pressure actuated means for serially actuating certain of said instrumentalities to kink the feeding yarn, and means for controlling the rate of serial actuation and the rate of movement of each individually actuated instrumentality to produce a knitting wave of predetermined form.

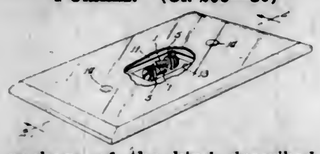
33. In a flat knitting machine having knitting devices including a series of needles movable as a unit, a series of yarn measuring sinkers cooperating therewith, the combination of a verge plate, means for advancing the sinkers serially against the verge plate to kink yarn against the needle shanks, means for adjusting loop length which comprises a support on which the verge plate is adjustable lengthwise of the sinker series, cam and follower surfaces rendered operative by said lengthwise adjustment to adjust the position of the verge plate forwardly or back in the direction of sinker movement, and means for adjusting the position of the verge plate lengthwise of the sinker series.

2,278,523
PIN STEM FINDING
Eugene Morehouse, Providence, R. I., assignor to B. A. Ballou & Co., Inc., a corporation of Rhode Island
Application May 13, 1940, Serial No. 334,683
3 Claims. (Cl. 24—157)



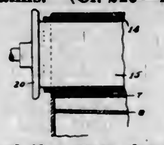
1. In a pin stem finding of a single sheet of material substantially of uniform thickness comprising an upstanding blade having at least one extension at the lower edge on one side and having an outwardly extending bulge on the other side of said blade beyond the normal plane of the opposite surfaces of said blade to provide a supporting area.

2,278,524
MEANS FOR AND METHOD OF PACKING ARTICLES
Thomas L. Parker, Chicago, Ill., assignor to The Standard Electric Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application July 15, 1939, Serial No. 284,603
4 Claims. (Cl. 206—80)



1. A package of the kind described and in combination consisting of a plate provided with an opening and having a flanged edge on one face, a sheet of cardboard or the like disposed on said edge, said sheet having a severed portion providing a tab in registry with and extending towards said opening, a screw extending through the tab, the latter and said screw being positioned entirely between the opposite or outside faces of the plate and sheet, and a wrapper enclosing the plate, the sheet and the screw for maintaining them in a unitary package.

2,278,525
CONVEYER AND COUCHER BELT PROCESS AND MACHINE FOR THICKENING PULP
John P. Rich and Elmer R. Burling, Nashua, N. H., assignors to Improved Paper Machinery Corporation, Nashua, N. H., a corporation of Maine
Application April 17, 1939, Serial No. 268,354
8 Claims. (Cl. 210—199)

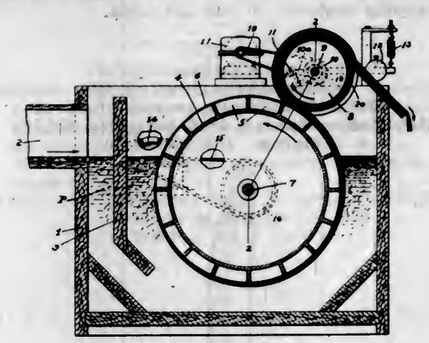


1. Apparatus of the class described, comprising a container for a mixture of solids and liquids, a filter drum therein adapted to collect a layer or mat of semi-solid material on its surface, a roll mounted above said vat, a second roll mounted somewhat below the level of mixture in the vat, and adjacent the drum surface in the zone in which the drum emerges from the mixture, and having its surface spaced further from the drum surface than that of the first mentioned roll, and an impervious belt stretched between said rolls and adapted to contact the semi-solid material on the surface of the filter drum with increasing pressure as the material moves from the zone adjacent to the second roll to the zone adjacent to the first roll.

2,278,526
METHOD OF AND APPARATUS FOR COUCHING
John P. Rich, Nashua, N. H., assignor to Improved Paper Machinery Corporation, Nashua, N. H., a corporation of Maine
Application April 17, 1939, Serial No. 268,355
4 Claims. (Cl. 210—199)

1. An apparatus of the class described com-

prising a filter drum on which a mat of semi-solid material may be deposited, a couch roll adapted to compress this mat of semi-solid material, a driving motor of substantially fixed speed



for all load conditions, for driving the filter drum, and a motor having a substantially constant torque and a variable speed range, for driving the couch roll with a substantially uniform driving torque over a definite speed variation range.

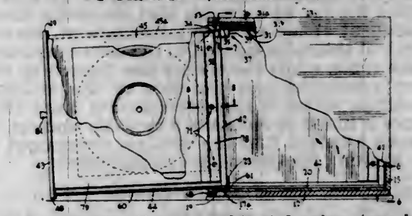
2,278,527
HALO-SUBSTITUTION OF UNSATURATED ORGANIC COMPOUNDS
Frederick F. Rust and William E. Vaughan, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application September 5, 1939, Serial No. 293,486
14 Claims. (Cl. 260—654)

12. The process of predominantly halogenating, via substitution, an unsaturated organic compound of the class consisting of unsaturated hydrocarbons and halo-substituted unsaturated hydrocarbons having an olefinic linkage between two non-tertiary carbon atoms, which comprises subjecting said unsaturated compound to the action of a halogen selected from the group consisting of chlorine and bromine, and effecting said reaction in the presence of oxygen in a quantity of up to about 5% by volume of the reactants and at a temperature in excess of 250° C., but below that at which substantial halo-substitution is effected during a thermal, non-catalytic halogenation reaction whereby material halo-substitution is effected as compared to the halo-substitution obtainable at such temperature by a thermal, non-catalytic halogenation.

2,278,528
COPOLYMERIZED SUBSTANCE COMPRISING A FORMYL GROUP
Carl E. Barnes, Worcester, Mass., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 13, 1939, Serial No. 267,605
3 Claims. (Cl. 260—84)

1. An optical body formed of a polymerized base substance comprising methyl methacrylate copolymerized with approximately 15% of a substance selected from the group consisting of vinyl formate and isopropenyl formate and which has accurately shaped optical surfaces.

2,278,529
CABINET FOR PHONOGRAPH RECORDS
Samuel Beder, New York, N. Y.
Application February 27, 1940, Serial No. 320,991
3 Claims. (Cl. 312—12)

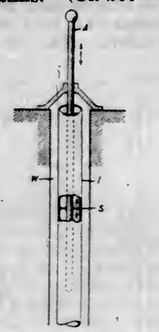


1. In combination, a cabinet having top, bottom, side and rear walls, and being open at the front, a member attached to the upper surface of the bottom wall and being formed with a longitudinal groove and extending from front to rear, a member attached to the undersurface of the top wall and extending from front to rear and being formed with a longitudinal groove, a book of phonograph record envelopes slidably mounted in said cabinet between said top and bottom members, said book having means at its upper end to slidably engage within the groove in the top member, means at its lower end to engage within the groove in said bottom member, means on the cabinet to engage the rear end of the book upon slidably moving the book forwardly through the open end of the cabinet to stop the book from coming out of the cabinet entirely, said book having a bottom wall, a front wall, and a central partition attached to the mid-portions of said front and bottom walls of said book, and a plurality of envelopes hinged at their rear ends to opposite sides of said partition.

2,278,530
AMMUNITION
Willi Brun, Bridgeport, Conn., assignor to Remington Arms Company, Inc., a corporation of Delaware
No Drawing. Application July 5, 1940, Serial No. 344,114
3 Claims. (Cl. 52—2)

1. A priming mixture including a zoisitic aplite rock.

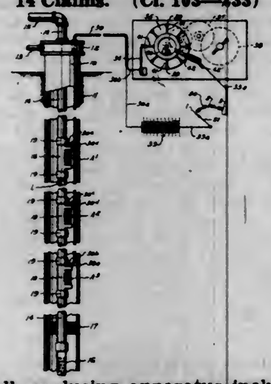
2,278,531
ANTENNA COUPLING WITH A COAXIAL LINE
Werner Buschbeck, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application March 28, 1941, Serial No. 385,584
In Germany September 19, 1939
4 Claims. (Cl. 250—33)



1. Arrangement for coupling an antenna with

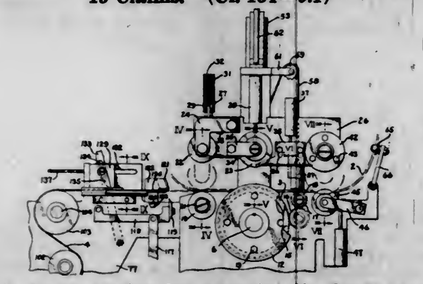
a coaxial cable having an inner conductor and an outer shell, characterized by the fact that the antenna is formed by a conductor immersed in a tubular end portion of said inner conductor of said cable and which protrudes to such an extent beyond the end of the cable that the ohmic series component of the antenna impedance at the entrance of the cable is equal to the wave resistance of the cable, while the energy line formed by the inner conductor and the part of the antenna conductor which is immersed in said inner conductor is tuned by means of a movable connection to such a length that the wattless component of the antenna impedance is compensated.

2,278,532
WELL FLOWING APPARATUS
Charles S. Crickmer, Dallas, Tex., assignor to Merla Tool Company of Dallas, Tex., a firm
Application January 7, 1939, Serial No. 249,671
14 Claims. (Cl. 103—233)



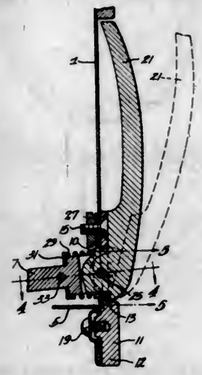
1. A well producing apparatus including, well tubing in a well, a plurality of electrically operated valves at different elevations in the well, each valve controlling flow of fluid between the interior and the exterior of the well tubing, an electrical circuit for the valves, means in said circuit at the surface of the well for controlling flow of electrical current in said circuit, said valves being adapted for operation by different amperage of said electrical current, and means for varying said amperage.

2,278,533
APPARATUS FOR WRAPPING BEAD WIRES
Charles H. Desautels, Springfield, Mass., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application February 12, 1941, Serial No. 378,595
15 Claims. (Cl. 154—9.1)



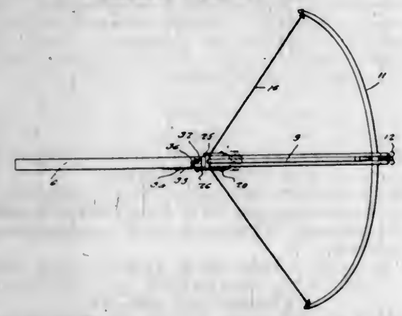
1. An apparatus for wrapping tire beads comprising means for supporting a tire bead, means for driving the bead circumferentially, means for advancing a free end of a strip of wrapping material into engagement with the bead, and means for supplying a measured length of the wrapping material to the tire bead.

2,278,534
DOOR LATCH OPERATOR
John W. Dickason, Detroit, Mich.
Application March 5, 1940, Serial No. 322,371
7 Claims. (Cl. 292—347)



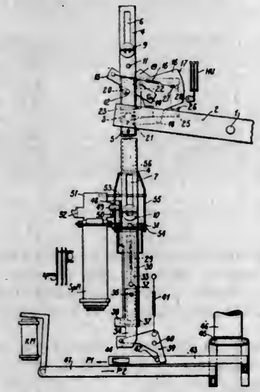
1. A door operator comprising a latch operating shaft adapted to be slidably and rotatively journalled in a door panel and extending to the inside thereof, an elongated handle hinged upon the outer end of the shaft and having one end adapted to act as a fulcrum against a portion of said panel, means for holding the handle sufficiently spaced from the door panel when in normal position to assure convenient manipulation thereof, a spring for continuously biasing the shaft to slide inwardly, and a projection on the inner side of said handle adapted to fit into a depression in said door panel when the handle is in normal position.

2,278,535
CROSSBOW
Henry Dobson, New Orleans, La.
Application November 28, 1940, Serial No. 367,642
2 Claims. (Cl. 124—25)



1. A crossbow comprising an arrow guide having a groove in its upper surface adapted to receive an arrow, a shoulder at the rear end of the groove, a bow secured at the front end of the arrow guide, said bow including a bow-string adapted for engaging the shoulder when the bow-string is drawn, a safety hook engageable with the bow-string for releasably securing the latter from accidental releasing movement and a trigger adapted for releasing the bow-string.

2,278,536
TELEPHONE PAY STATION
Hinrich Döhle, Berlin-Altglienicke, Heinrich Langner, Berlin-Steglitz, and Wilhelm Schramm, Berlin, Germany, assignors to Telephon-Apparat-Fabrik E. Zwietusch & Co., G. m. b. H., Berlin-Charlottenburg, Germany, a company of Germany
Application September 16, 1939, Serial No. 295,200
In Germany September 23, 1938
7 Claims. (Cl. 179—6.3)

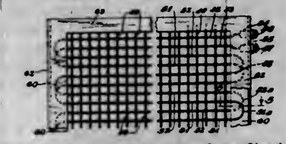


1. In a paystation telephone set, a switch hook, a reciprocatory member adapted to be moved between two extreme positions under control of said switch hook, contacts for controlling the circuit of said telephone set, said contacts at normal when said member is in one of said positions, means controlled by said member whenever moved from said one position to the other of said positions for operating said contacts responsive to said member reaching said other position and controlled by said member whenever moved from said other position to said one position for restoring said contacts to normal responsive to said member reaching said one position, and means controlled by said member for locking said member in said one position for an interval of time after it has been moved to said one position from said other position.

2,278,537
MANUFACTURE OF ALIPHATIC COMPOUNDS
Henry Dreyfus, London, and Leonard Fallows, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application October 6, 1938, Serial No. 233,584. In Great Britain October 19, 1937
15 Claims. (Cl. 260—547)

1. Process for the manufacture of chemical dehydration products of lower aliphatic acids, which comprises passing the vapor of the acid through a heated reaction zone and dispersing in the reaction zone in the gaseous phase phosphoric acid and a volatile basic carbonyl group-containing derivative of an amino-carboxylic acid.

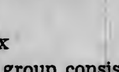
2,278,538
INSECT SCREEN
William Dubilier, New York, N. Y.
Application March 16, 1940, Serial No. 324,416
3 Claims. (Cl. 156—14)



1. A screen having warp and weft strands, one set of strands comprising single filament crimped resilient strands of an electrically insulating synthetic thermally workable material, said strands having a series of permanently set obtuse angled crimps, the other set of strands comprising electrically conductive wires; said wires being spaced from each other and positively positioned in predetermined spaced insulating relation by the crimps in the insulating strands.

2,278,539
TREATMENT OF RUBBER
Paul M. Elliott, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application July 15, 1939, Serial No. 284,712
4 Claims. (Cl. 260—780)

1. A process which comprises incorporating in a vulcanizable rubber stock, an ultra accelerator of vulcanization and in addition a chemical having the general formula



where R is a member of the group consisting of aryl and heterocyclic radicals, and X is chlorine.

2,278,540
PRODUCTION OR TREATMENT OF PIGMENTS AND TEXTILE AND OTHER MATERIALS CONTAINING THEM
George Holland Ellis and Edmund Stanley, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application July 23, 1938, Serial No. 221,010. In Great Britain September 1, 1937
10 Claims. (Cl. 8—61)

7. Process for the production of a textile or other material delustered with a titanium dioxide delustering agent and having improved properties as regards its tendency to lose tenacity and, if dyed, to fade on exposure to light, which comprises treating a textile or other material containing titanium dioxide as a delustering agent with an aqueous medium containing a vanadium compound at a temperature not exceeding the boiling point of the aqueous medium at atmospheric pressure.

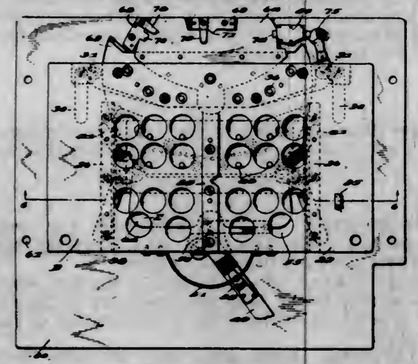
2,278,541
HAIR CURLING DEVICE AND METHOD OF CURLING HAIR
Samuel Freeman, New York, N. Y.
Application September 16, 1936, Serial No. 101,023
6 Claims. (Cl. 132—33)

6. A hair curling device comprising a first member and a second member which are turnable relative to each other, said second member hav-

ing a sleeve-like shape, said first member and said second member being adapted to receive and to hold the ends of the shanks of a hair pin, said sleeve-like second member having a channel extension at the rear end thereof, a clamping member turnably connected to said sleeve-like member by a pivot pin which is located in said channel extension, said clamping member having a first portion which extends over said sleeve-like member and having a second portion which is located in said channel member and below the top edges of said channel member, and a spring located in said channel member and operative to urge said clamping member to its clamping position, said sleeve-like member and said channel member respectively having a depression and a cooperating rib which operate as stop means for limiting the turning movement of the clamping member towards its operative position.



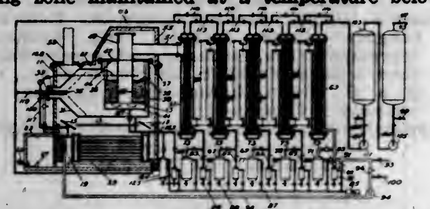
2,278,542
DIE
Louis G. Freeman, Jr., Cincinnati, Ohio, assignor to The Louis G. Freeman Company, Cincinnati, Ohio, a corporation of Ohio
Application October 18, 1938, Serial No. 235,672
20 Claims. (Cl. 101—30)



11. A die unit for use in an ornamenting machine, comprising a base, a plurality of die sections carried by said base, one of said sections being rigidly secured to the base, and another of said sections being mounted on said base for movement relative thereto and to said rigidly secured section, whereby said die unit may be adjusted to accommodate a variety of work, at least one of said sections being detachable as a complete section from said base, and quickly releasable means to detachably secure said section to the base.

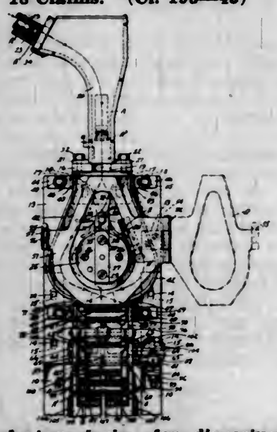
2,278,543
DISTILLATION PROCESS
Edward H. French, Columbus, Ohio
Application August 5, 1937, Serial No. 157,561
17 Claims. (Cl. 202—43)

1. Process for distilling a high-boiling, heat-sensitive organic liquid, which comprises atomizing in a distillation zone a flowing stream of such liquid preheated to a temperature below its decomposition point but sufficiently high to convert said liquid to a vapor when atomized within said distillation zone, while applying indirect heat to the resultant stream of vapors to maintain the same in vapor form at a temperature below that at which substantial decomposition of said vapors occurs; thereafter quickly withdrawing the resultant stream of vapors from said distillation zone; and, prior to said withdrawal, mechanically coalescing and stripping therefrom non-vaporous components in a hot stripping zone maintained at a temperature below



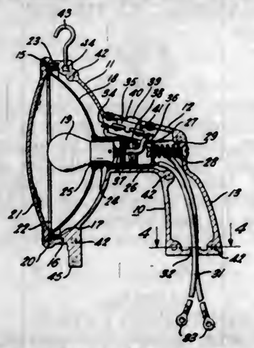
that at which substantial decomposition of the vapors occurs but at which substantial condensation of said vapors is prevented; quickly withdrawing the stripped vapors from said stripping zone, and preventing countercurrent contact of the stream of stripped vapors with the said non-vaporous components during said stripping and withdrawal steps; and condensing the stripped vapors.

2,278,544
AMMUNITION FEEDING DEVICE
Clarence E. Gaskill, Mason, and Harvey J. Hackman, Kings Mills, Ohio, assignors to Remington Arms Company, Inc., a corporation of Delaware
Application June 29, 1940, Serial No. 343,142
18 Claims. (Cl. 193—43)



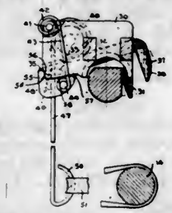
1. An indexing device for disposing articles such as shot shells in side-by-side heads-tails sequence, comprising a feeding hopper having a delivery end to feed said articles singly in end-to-end arrangement, an index chamber having side walls and an entrance end arranged to receive said articles from said hopper and an exit end adapted to deliver said articles, said chamber having left and right passages diverging outwardly from said entrance end and converging inwardly toward said exit end to arrange the articles in side-by-side heads-tails sequence, positive automatic index means in said chamber for alternately diverting said articles into said left and right passages, and guide means arranged to receive said articles from said chamber in said side-by-side heads-tails sequence.

2,278,545
PORTABLE SPOT LAMP
George E. Gravenstine, Dayton, Ohio, assignor to The S. H. Thomson Manufacturing Company, Dayton, Ohio, a corporation of Ohio
Application September 11, 1940, Serial No. 356,370
2 Claims. (Cl. 240—8.18)



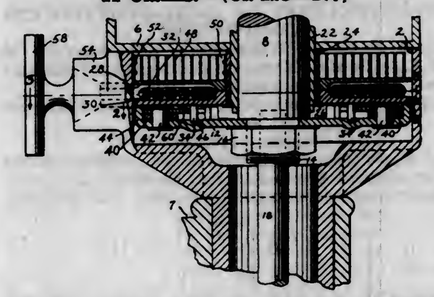
1. A portable searchlight comprising a molded composition body shell providing a bowl-shaped holder for a reflector, a mid portion comparatively small compared to the outer diameter of the holder and extending substantially axially from the holder, and a hand grip extending substantially transversely from the outer end of the mid portion, said holder, mid portion and hand grip being integral with one another, a reflector in the holder, a glass lens having screw threads on the rim thereof, internal threads on the rim of the holder receiving the threads on the lens, an electric lamp bulb located at the reflector axis back of the lens, a connection lead extending from the end of the hand grip, and switch means carried by the mid portion for controlling the energization of the lamp bulb.

2,278,546
THREAD CUTTER FOR AUTOMATIC LOOMS
Ernest P. Guerin, Lawrence, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application April 21, 1941, Serial No. 389,576
7 Claims. (Cl. 139—303)



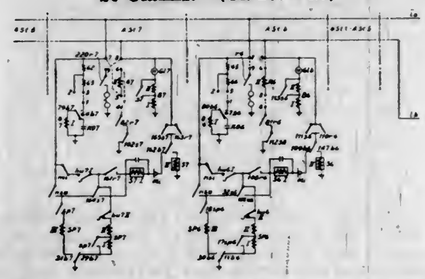
1. In a thread cutter for a loom having a lay reciprocating between front and back center positions and provided with a thread extending from a thread clamp to the adjacent selvage, a normally stationary support mounted in front of the lay having cutter means mounted thereon, a cutter mounted for backward and forward motion on the support, two opposed springs one of which is stronger than the other and tends normally to hold the cutter in forward closed position relatively to the cutter means and the other of which tends to move the cutter to rearward open position relatively to the cutter means, a stop to limit rearward motion of the cutter, and connections between the stronger spring and the lay to overpower the stronger spring during backward motion of the lay, whereupon the weaker spring moves the cutter to rearward open position when the lay is in rearward position and behind said thread, said stronger spring thereafter operative during forward motion of the lay to overpower the weaker spring and move the cutter to forward closed position relatively to the cutter means to cut the thread.

2,278,547
STARTING DEVICE
Ralph J. Herrington, Minneapolis, Minn.
Application January 11, 1941, Serial No. 374,108
11 Claims. (Cl. 123—179)



10. In combination with a marine outboard motor, a starting device, an attachment for securing the motor and starting device to a boat, said attachment permitting the motor and starting device to be rocked toward the boat, said starting device comprising a driven member connected to the lower end of the crank shaft of the motor, a driving member below the crank case of the motor and including a pulley and a pull rope permanently attached thereto, means for establishing a driving connection between the driving member and the driven member upon rotation of the driving member in a first direction, means for disconnecting the driving member from the driven member upon independent rotation of the latter and means for rotating the driving member in a second direction.

2,278,548
TELEPHONE SYSTEM
Benedikt Kudrna, Vienna, and Roman Schwartz, Berlin-Wilmersdorf, Germany, assignors to Fides Gesellschaft für die Verwaltung und Verwertung von gewerblichen Schutzrechten mit beschränkter Haftung, Berlin, Germany, a corporation of Germany
Application March 30, 1939, Serial No. 264,902
In Germany April 1, 1938
20 Claims. (Cl. 179—17)



1. In a telephone or like system, an exchange,

a party line terminating at the exchange, a plurality of stations on said line each having a device normally disconnected from the line, means at each of said stations for transmitting digits over the line to the exchange, means at the exchange controlled by a plurality of successive digits received over the line from one of said stations for at times transmitting over said line a station selecting impulse depending in duration upon said digits, and means at each station for connecting the device at that station to the line responsive only to the receipt of a selecting impulse of a particular duration.

2,278,549

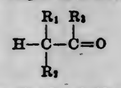
HYDROGENATION OF ACYL-SUBSTITUTED COMPOUNDS

Donald J. Loder, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 24, 1939, Serial No. 258,178

17 Claims. (Cl. 260—484)

1. A process which comprises hydrogenating to an alcohol group the $R_3C{:}O$ group of a substituted organic compound having the formula:



wherein R_1 is a radical of the group consisting of hydrogen, hydroxy, alkyl, alkoxy, aryl, and aryloxy groups; R_2 is a carboalkoxy group; and R_3 is a radical of the group consisting of hydrogen, alkyl and aryl groups, in the presence of a hydrogenation catalyst.

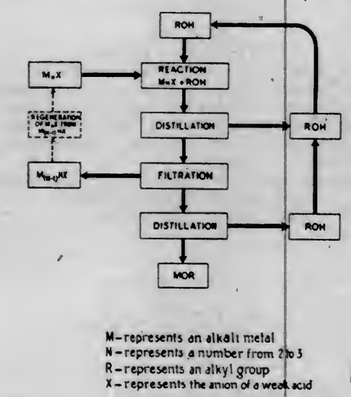
2,278,550

PREPARATION OF ALKALI METAL ALKOXIDES

Donald J. Loder and Donald D. Lee, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application June 21, 1939, Serial No. 280,308

16 Claims. (Cl. 260—632)



4. A process of preparing an alkali metal alkoxide which comprises reacting an alkali metal salt of a weak acid with an alcohol in which the salt is soluble and recovering the alkali metal alkoxide from the reaction products.

2,278,551

METHOD OF MAKING BALL CENTERS AND ARTICLE

Frank S. Martin, Providence, R. I., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application February 6, 1941, Serial No. 377,648

7 Claims. (Cl. 154—18)



1. The method of making a ball center which comprises forming a hollow sphere of elastic material with an inwardly tapering opening of less diameter at its inner end than the sphere interior cavity, inserting through said opening a fluid filled flexible container to fill the cavity, and inserting in said opening a plug of elastic material and uniting the same with the body of the sphere.
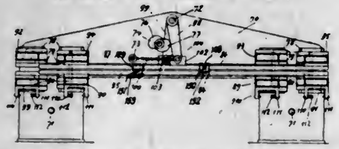
2,278,552

CONVEYING DEVICE

Gottfried Maurer, Zurich, Switzerland, assignor to the firm A. Müller & Cie. Maschinenfabrik und Eisengiesserei Aktiengesellschaft, Brugg, Switzerland, a joint-stock company of Switzerland

Original application December 13, 1939, Serial No. 309,099. Divided and this application September 9, 1940, Serial No. 356,090. In Switzerland November 3, 1939

10 Claims. (Cl. 198—219)



1. In a conveying device comprising opposed groups of bars, suitable supporting means for said groups, adapted to move toward and away from one another, suitable operating means for said groups whereby two opposed groups are caused to move forward and backward, and right and left hand threaded spindles connecting the supporting means of two opposed groups, said spindles being adapted to be controlled by the forward and backward motion of said two opposed groups and to move said two opposed groups toward and away from each other.

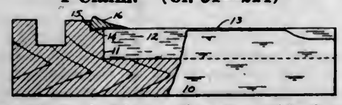
2,278,553

RAZOR HONE AND HOLDER

Sat K. Morrow, Bent County, Colo.

Application October 24, 1940, Serial No. 362,488

1 Claim. (Cl. 51—214)



A razor hone holder and razor guide for use in reconditioning ordinary razor blades, comprising a block of material having its upper surface provided with a recess for the reception of a razor hone, the recess extending inwardly from one end of the block and terminating a short distance from the other end thereof, the walls forming the sides of the recess being lower than the upper surface of the end of the block, the upper surface of the end wall of the recess having a guide notch whose bottom surface intersects the end wall surface and the upper surfaces of the side walls, the bottom of the guide notch being positioned wholly below the upper surface of the end wall of the holder, and below the tops of the side walls of the recess, the bottom surface of the guide notch terminating in an upwardly ranging wall that in turn intersects the upper surface of the end wall of the block, the guide notch serving to receive the lower corner of the back of a razor blade to position and guide it relative to the upper surface of a hone positioned in the recess.

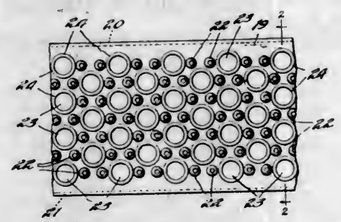
2,278,554

TREAD PLATE

Charles D. Morton, Chicago, Ill., assignor to Morton Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application July 14, 1939, Serial No. 284,398

1 Claim. (Cl. 94—11)



A metal tread comprising a plate having rows of dome-shaped bosses struck up above the surface of the plate, the said bosses being centrally perforated whereby gripping edges are formed at the intersections of the upper surfaces and the perforations on the said bosses, the plate having spaced rows of circular openings therethrough, the rows extending both longitudinally and transversely of the plate, the openings in each row in each direction being in staggered relation with respect to the openings in adjacent rows in each direction, the openings having flanges thereon projecting upward from the tread side of the plate of substantially the same height as the bosses.

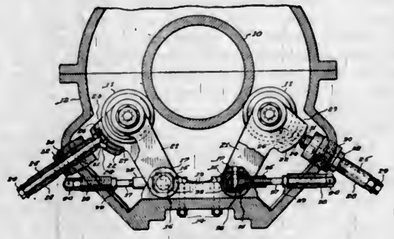
2,278,555

CENTRIFUGAL CASTING APPARATUS

Walter S. Myers, North Merchantville, N. J., assignor to United States Pipe and Foundry Company, a corporation of New Jersey

Application July 26, 1941, Serial No. 404,171

10 Claims. (Cl. 22—65)



1. In apparatus for supporting a centrifugal pipe mold and comprising a roller frame having a pivotal mounting at one end and having its other end adjustable to move a mold-supporting roller thereon about the axis of the pivot of the pivotal mounting, the improvement which comprises adjustable bearings for the opposite ends of said pivotal mounting, and means for adjusting said bearings to vary the alignment of said roller with respect to said mold.

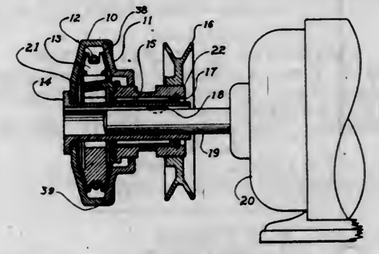
2,278,556

FRICTION CLUTCH

William C. Osterholm, Oak Park, Ill.

Application June 28, 1938, Serial No. 216,267

6 Claims. (Cl. 192—76)



2. In a clutch mechanism, the combination of a housing, an expansible clutch mechanism disposed within and adapted to cooperate with said housing, driving and driven means, said clutch mechanism being of multi-part construction including radially movable clutch elements, said clutch elements having inclined grooves disposed in their marginal radially disposed edges, connecting means between one of said first-named means and said housing, and connecting means between the other of said first-named means and said clutch comprising an axially movable clutch operating member provided with inclined clutch fingers each in cooperative relation with opposed grooves of adjacent clutch elements for operating said clutch mechanism.

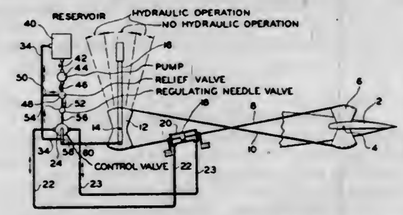
2,278,557

AIRCRAFT CONSTRUCTION

John W. Overbeke, Annealie, Md., assignor to The Glenn L. Martin Company, Baltimore, Md.

Application July 15, 1939, Serial No. 284,675

10 Claims. (Cl. 244—85)



1. In a control mechanism for the surfaces of aircraft, a movable surface, a manual control member, means connecting said member to said surface without lost motion whereby movement of either said member or said surface in either direction causes corresponding movement of the other, said manual control member being movable from a normal position throughout a predetermined range of a substantial amount and means controlled by movement of said manual control member during at least a part of said range outside of said normal position only to exert a supplementary force on said surface tending to move the same away from the normal position and to maintain such force as long as said manual means is within such part of said range.

2,278,558
TREATMENT OF RUBBER
Philip T. Paul, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application March 16, 1939, Serial No. 262,168
8 Claims. (Cl. 260—808)

3. A method of preserving rubber which comprises incorporating therein a methallyloxy diarylamine.

2,278,559
ALKENYLOXY DIARYLAMINES
Philip T. Paul, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application March 16, 1939, Serial No. 262,180
2 Claims. (Cl. 260—571)

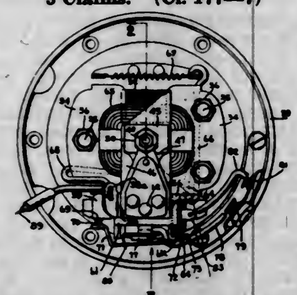
1. A 4-methallyloxy diarylamine.

2,278,560
ANTENNA
Wilhelm Peters, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application September 30, 1939, Serial No. 297,296
In Germany July 21, 1938
9 Claims. (Cl. 250—33)



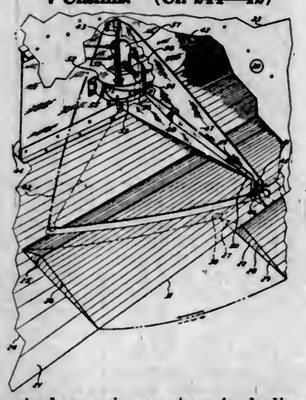
1. An antenna comprising a plurality of conductors arranged with their length parallel to the generatrix of the surface of a conic solid of revolution, means for so energizing said conductors at their most closely adjacent ends and means for so terminating said conductors at their other ends that a traveling wave is set up along said conductors, said conductors being so energized from said means that the instantaneous phase relationship of energy in said conductors progressively advances around said surface whereby a rotating field of radiation is established.

2,278,561
HORN MOTOR AND RELAY UNIT
William J. Rady, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 11, 1940, Serial No. 323,245
5 Claims. (Cl. 177—7)



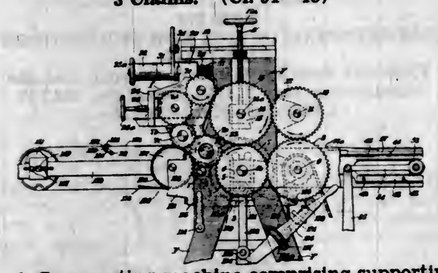
1. A horn structure including a base, a diaphragm supported on the base, an armature for operating the diaphragm, and an electromagnet for the armature mounted on the base, an U-shaped support having the open end directed toward the base, the support and the base including means for supporting the former on the latter, a stack including interrupter means operated by the armature and a stationary contact for a relay, the closed end of the U and the stack including means for supporting the latter on the former, a relay including a core, coil, frame, and moving member bearing a contact, said movable member cooperating with the stationary contact, the core and coil being contained within the U, and the horn structure including means for supporting the relay on the base.

2,278,562
AIRPLANE
Arthur E. Raymond, West Los Angeles, Calif., assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif.
Application August 3, 1938, Serial No. 222,875
7 Claims. (Cl. 244—42)



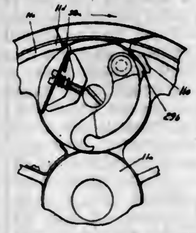
1. An airplane wing system including: a main wing having a forward portion and a rear portion, the rear portion being pivotally mounted and retractably connected to the forward portion; and means operative for positioning the said rear portion relative to the said forward portion throughout a reversible cycle in which the locus of the trailing edge of the rear portion is substantially triangular and three major positions comprise the trailing attitude, nesting with the bottom surface of the forward portion, and an angularly subtending attitude, each of which positions corresponds with one of the vertices of the triangular locus; the said means comprising primary means controllable by the pilot for retracting and for extending the rear portion, and secondary means responsive to operation of the primary means for pivoting the rear portion; the said primary means including a member pivotally connecting the said rear portion to the said forward portion and movable in a generally fore and aft direction to retract and to extend the rear portion; and the said secondary means comprising, in operative relation, a reentrant-groove cam affixed to the structure of the forward portion, a plurality of pilot operable switches determining the directional continuity of the reentrant portions of the groove, and a lever pivotally mounted for vertical oscillation upon the said connecting member, the lever engaging the groove and operatively connected for pivoting the rear portion in response to being oscillated by the cam.

2,278,563
COATING MACHINE FOR COATING SHEETS OF MATERIAL
William Recht, Woodmere, N. Y., assignor to General Printing Ink Corporation, New York, N. Y., a corporation of Delaware
Application June 30, 1937, Serial No. 151,090
3 Claims. (Cl. 91—48)



1. In a coating machine comprising supporting and composition rollers between which plane sheets of material pass along a path defined by a horizontal plane extending substantially tangentially with respect to said rollers in the coating zone thereof, means for moving the plane sheets of material toward and between said rollers, means at the discharge end of said coating machine for successively drawing the plane sheets of material between and from said rollers in the same general direction defined by said horizontal plane, said last named means comprising a plurality of endless members extending in the direction of sheet movement, transversely aligned gripper units carried by the respective endless members, means for actuating said gripper units to grip a sheet delivered thereto from said rollers, and means for actuating said gripper units to release said sheet after it has been moved beyond said rollers.

2,278,564
SANDING MACHINE
Raymond A. Reid, Cedar Rapids, Iowa
Application May 6, 1940, Serial No. 333,499
4 Claims. (Cl. 51—194)



1. In a device of the character described including a drum and a sanding strip, spring means for tightening the sanding strip on the drum, a latch means for holding the tightening means in stressed condition while the sanding strip is applied, and weighted means operable by centrifugal force to release the latch means as soon as the drum is rotated at a speed approaching normal operating speed.

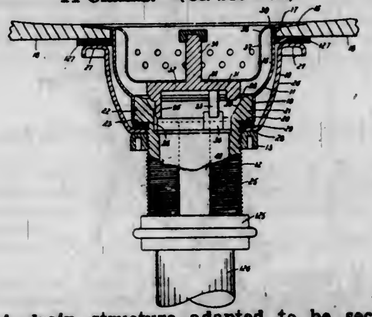
2,278,565
LOOSE-LEAF BINDER
John Schade, Holyoke, Mass., assignor to National Blank Book Company, Holyoke, Mass., a corporation of Massachusetts
Application March 24, 1941, Serial No. 384,857
10 Claims. (Cl. 129—1)

1. A loose leaf book comprising a pair of covers connected by a flexible back strip, a perforated flipper plate hinged to the inner edge of each cover adapted to turn under but not above the



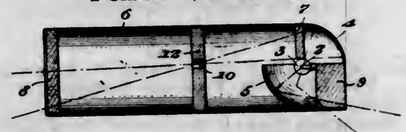
plane of the cover, and a loose leaf structure for holding sheets loosely suspended in the perforations in said flipper plates.

2,278,566
DRAIN FITTING
Michael F. Schaible, Cincinnati, Ohio
Application February 23, 1940, Serial No. 320,264
11 Claims. (Cl. 285—37)



1. A drain structure adapted to be secured within a drain aperture, and comprising in combination an inner shell, an outer shell and a pipe coupler, said inner shell being fabricated from a sheet of metal too thin to carry threads and characterized by its high tensile strength and by its erosion and corrosion resistant properties, said pipe coupler being connected to and carried by said inner shell and having threads thereon, said outer shell carried by said pipe coupler, and means engaging said threads to shift said outer shell relative to the inner shell for securing the drain structure within said drain aperture.

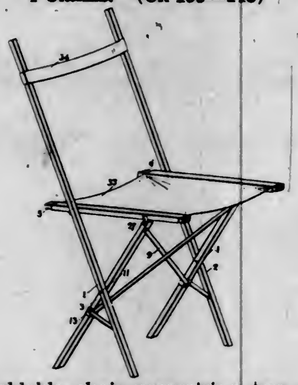
2,278,567
DEVICE FOR IDENTIFICATION OF VEHICLES
Maurice Schuermans and Albert Baret, Brussels, Belgium
Application February 23, 1940, Serial No. 320,518
In Belgium March 16, 1939
1 Claim. (Cl. 240—7.1)



An illumination device for motor vehicles comprising an elongated casing extending longitudinally of the vehicle at each side thereof within the hood, a lens covering the front of each casing, a source of light at the rear of each casing, a reflector positioned rearwardly and above the light source for projecting a beam of light forwardly and downwardly through the lens in the front of the casing, said casing having an opening in the side adjacent the rear thereof, a reflector positioned forwardly and beneath the light source for projecting a beam of light rear-

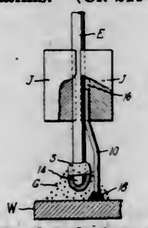
wardly, laterally and downwardly, and a baffle positioned intermediate the ends of the casing at the point of crossing of rays of light projected from the rearmost reflector, said baffle having a small opening therein for the passage of the beam of light.

2,278,568
FOLDABLE FRAME
Massimo Segre, New York, N. Y.
Application December 28, 1939, Serial No. 311,268
4 Claims. (Cl. 155—143)



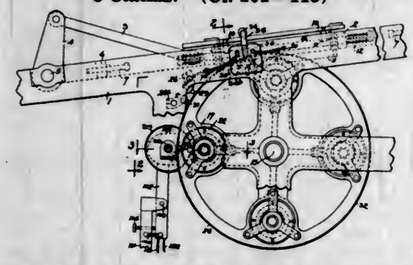
4. A foldable chair comprising two pairs of legs, the legs of each pair being pivotally connected to each other and one leg of each pair being longer than the other; in each pair a slidable member on one leg thereof and a link pivoted to said slidable member and to the other leg of the pair; X-braces connecting one of the legs of a pair to one of the legs of the other pair and having the upper ends thereof pivoted to said legs and the lower ends pivoted to said slidable members; two bars, each bar being pivoted to a member fixed to the upper end of one of the legs of a pair and pivoted to another member slidable with respect to the other leg of the same pair; a strip of flexible material secured to said bars to provide a seat; a second strip of flexible material secured to the upper part of said two longer legs to provide a back, said second strip being used in the folded position of the chair as a sleeve to easily carry the folded chair; and locking means to hold the bars in horizontal position whereby the chair is prevented from accidentally folding when opened.

2,278,569
WELDING
Harry Shrubsall, Niagara Falls, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio
Application May 24, 1940, Serial No. 336,921
13 Claims. (Cl. 219—10)



3. The method of refusing welding material which is a poor conductor when cold and which has been fused and has solidified upon the operative end of a welding electrode which comprises heating said material by an electric current flowing along a highly conductive path in parallel with said electrode.

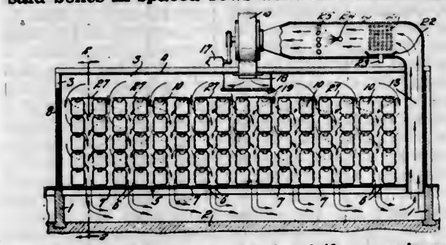
2,278,570
REGISTERING DEVICE FOR MULTICOLOR PRINTING
Frederick Shurley, Windsor, Ontario, Canada
Application July 3, 1939, Serial No. 282,729
3 Claims. (Cl. 101—115)



1. In a registering device for multi-color printing on molded containers having external peripheral mold seams of slight elevation, a chuck for holding said container fixedly thereon, a carrier, pivot mounting means for rotatably mounting said chuck on said carrier, support means for movably supporting said carrier for movement to translate said chuck selectively into an adjusting position or a printing position, said mounting means comprising electromagnetic brake means for locking said chuck in fixed orientation about the pivots on said carrier, a senser, senser mounting means for displaceably mounting said senser for engagement thereof with the periphery of said container as the same is rotated in said chuck about its pivots and for displacement of said senser when the senser engages a said seam on said container, electromagnetic pick-up means comprising circuit connections, said senser being mounted with a portion thereof in the field of said electromagnetic pick-up means for impressing a voltage impulse on the circuit connections of said electromagnetic pick-up means when said senser is displaced in said field, control circuit means comprising amplifying means and liminal discharge control means actuated by the output of said amplifying means, the circuit connections of said electromagnetic pick-up means being connected to input terminals of said control circuit means, the output connections of said liminal discharge means being connected to said electromagnetic brake means for applying a powerful electric braking impulse to said braking means when said liminal discharge means is actuated, whereby rotation of said chucks and said container on said pivot mounting means into register position with a said seam of low elevation engaging said senser causes locking of said braking means and orientation of said container in printing register.

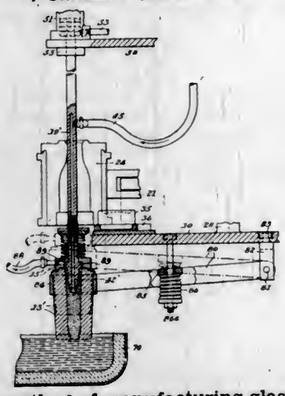
2,278,571
METHOD OF STACKING AND TREATING FRUITS AND VEGETABLES IN COLORING ROOMS
Bronson C. Skinner, Dunedin, Fla.
Application February 21, 1939, Serial No. 257,585
7 Claims. (Cl. 99—148)

1. Method of stacking open boxes of fruits and vegetables in a coloring room having a false floor containing spaced openings for the circulation of gases therethrough, which comprises stacking said boxes in spaced rows with two such rows of



boxes disposed between each of the openings in said floor, whereby gases circulated through said room and floor are directed through each of said boxes to color the contents of each box uniformly.

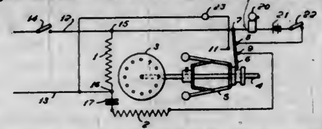
2,278,572
METHOD OF MANUFACTURING GLASS ARTICLES
Edwin E. Slick, Pittsburgh, Pa.
Application September 26, 1936, Serial No. 102,769
7 Claims. (Cl. 49—80)



4. In a method of manufacturing glass articles, the steps of introducing a glass charge into a blank mold, providing a shaper in the blank mold adjacent an end thereof, moving the glass charge about the shaper within the blank mold to form a parison, holding the parison on the shaper by a fluid agency while moving the shaper and parison out of the blank mold into a blow mold, and without removing the shaper introducing fluid pressure therethrough to blow the parison in the blow mold while hydraulically pressing the shaper inwardly with respect to the parison in the blow mold.

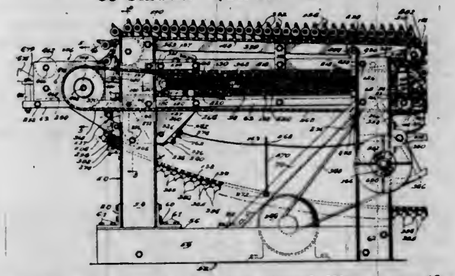
2,278,573
SIGNAL SYSTEM FOR SINGLE-PHASE MOTORS
Wendell C. Spear, Wapakoneta, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 13, 1940, Serial No. 329,450
1 Claim. (Cl. 172—279)

In combination, a self-starting single-phase induction motor having a main winding, an auxiliary winding, a single pair of single-phase supply-line conductors for energizing both of said windings in parallel-circuit relation across said conductors, an alarm-circuit, a signal-lamp circuit, and a centrifugal switch responsive to the motor-speed, said centrifugal switch having a single movable contact-arm, two back-contacts engaged by said contact-arm at low motor-speeds, a front-contact engaged by said contact-



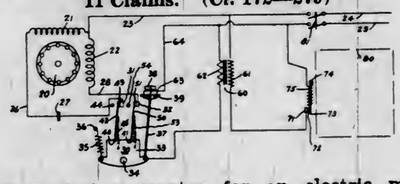
arm at higher motor-speeds, said contact-arm being connected to one of said supply-line conductors, said front-contact being connected to one terminal of the signal-lamp circuit, one of said back-contacts being connected to one terminal of the circuit containing said auxiliary winding, and the other back-contact being connected to one terminal of the alarm-circuit.

2,278,574
CONFECTION MAKING METHOD AND APPARATUS
Carl W. Spohr, Chicago, and Robert F. Bracke, Arlington Heights, Ill., assignors to Saf-T-Pop Corporation, Dubuque, Iowa, a corporation of Delaware
Application December 23, 1940, Serial No. 371,336
35 Claims. (Cl. 107—8)



1. In a machine for forming lollipops or the like, means to feed flexible handle forming material from a source of supply, an endless chain of molds, means to move said chain of molds, means to form the handle material into a sinuous configuration, means to cut alternate bights formed in the handle material to form individual handle portions, and means to urge the free ends of each handle portion into contiguous relationship and insert these ends into said molds.

2,278,575
CONTROL FOR ELECTRIC MOTORS
Calvin J. Werner and William E. Menzies, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 13, 1939, Serial No. 299,254
11 Claims. (Cl. 172—279)



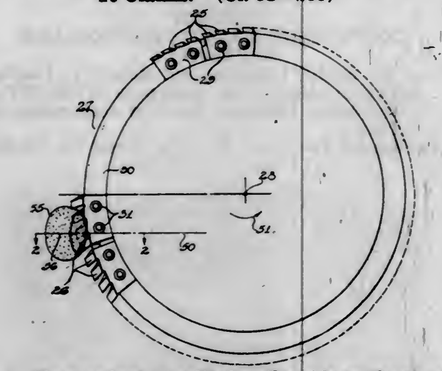
7. Control apparatus for an electric motor having starting and running windings; a switch

having a thermal element in circuit with both windings of the motor and adapted in response to predetermined current flows therethrough to actuate the switch to control the starting circuit and to provide overload for protection to the motor; and a separate circuit independent of the motor circuits for affecting said thermal element, said circuit including an electric regulator remote from the motor and comprising a thermal member and a heater coil, adapted to control said thermal element to actuate the switch in response to variations in temperature ambient thereto, the effect of said heater coil being a function of the difference between the reference temperature of said thermal member and the temperature ambient thereto.

2,278,576
METHOD OF RELIEVING GEAR CUTTERS

Ernest Wildhaber, Brighton, N. Y., assignor to Gleason Works, Rochester, N. Y., a corporation of New York

Application August 8, 1938, Serial No. 223,584
16 Claims. (Cl. 51—288)

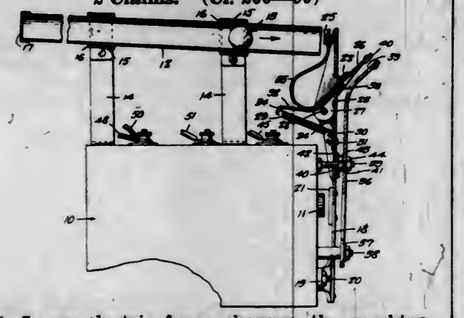


1. The method of relieving the side surfaces of blades of a disc-type gear cutter which comprises engaging a relieving tool, which has an active surface of curved profile, with the cutter and rotating the cutter on its axis while effecting a relative reciprocatory motion between the tool and cutter once for each blade of the cutter to be relieved and displacing the tool relative to the cutter, during rotation of the cutter, in a direction inclined to the plane of rotation of the cutter.

2,278,577
ELECTRIC FENCE CHARGER

Henry R. Wise, Durand, Ill.

Application November 6, 1939, Serial No. 303,149
2 Claims. (Cl. 200—90)

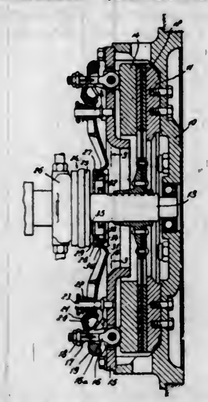


1. In an electric fence charger, the combination with a coil, a tube above the coil inclined downwardly towards one end of the coil, a ball adapted to roll freely up and down the tube, a resilient vibrator operated by the coil, a spring controlled circuit breaker arm pivoted to the vibrator, a stop on the vibrator against which said arm is normally held by its controlling spring, a resilient lever carried by the breaker arm and having its free end disposed between the lower end of the tube and the upper end of the vibrator and adapted to be struck by the ball and engage the vibrating arm to move the same to closing position, a rigid conductor bar supported on the outside of the resilient vibrator, and a contact on the upper face of the free end of the rigid conductor bar for engagement with the contact carried by the spring controlled circuit breaker arm.

2,278,578
THRUST WASHER STRUCTURE

Theodore J. Zeller, Plainfield, and Sigmund F. Lisbon, North Plainfield, N. J., assignors to Mack Manufacturing Corporation, Long Island City, N. Y., a corporation of Delaware

Application August 7, 1940, Serial No. 351,660
2 Claims. (Cl. 192—109)



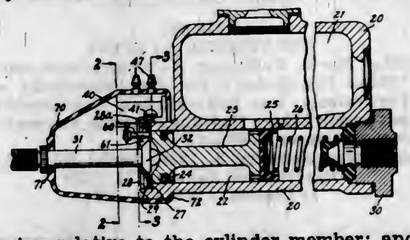
1. In a clutch having cooperating friction elements normally urged into engagement, shafts supporting said friction elements, a plurality of radially extending throwout levers, a throwout bearing mounted about one of said shafts and an annular thrust washer connecting the inner ends of said levers for actuation by said bearing; said thrust washer being characterized in that it is provided with a plurality of recesses into which the inner ends of said levers are pivotally received, said washer being adapted to be engaged on one side thereof by said throwout bearing, and said washer having passageways extending from said one side to said recesses for passage of lubricant from the throwout bearing to the engaging surfaces of the inner ends of said throwout levers.

2,278,579
MASTER BRAKE CYLINDER AND SWITCH UNIT

Arnold A. Bluemle, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application March 8, 1940, Serial No. 322,959
2 Claims. (Cl. 200—52)

1. In a master brake cylinder and stop-light switch unit comprising a plurality of sub-assemblies one of which includes a cylinder member having a notch formed in one end, a piston movable within the cylinder, yieldable means for urging the piston in one direction, and a washer removably secured to the cylinder member for limiting the movement of the piston in one direction, said washer having a through slot formed therein and having a projection for registry with the notch to prevent the washer from

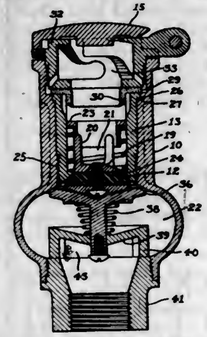


turning relative to the cylinder member; and a switch sub-assembly mounted upon the end portion of the cylinder said switch including an actuator movable longitudinally of the cylinder and projecting through the slot of the washer and extending into the cylinder against the piston whereby as a result of the movement of the piston in one direction away from its normal position the actuator is effected to close the switch.

2,278,580
SPRINKLING APPARATUS

Walter H. Coles and Bert J. Nelson, Troy, Ohio, assignors to The Skinner Irrigation Company, Troy, Ohio, a corporation of Ohio

Application March 20, 1940, Serial No. 325,054
1 Claim. (Cl. 284—19)

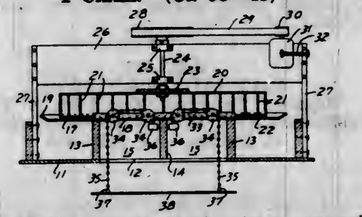


A sprinkling apparatus comprising a body member adapted to be attached to a supply pipe and to be supported underground with its upper end substantially at ground level, a valve seat member housed in and adapted for upward removal from the body member, said seat member providing a valve seat and having a screw thread connection to the body member, a valve, spring means for moving the valve upwardly against the valve seat, said valve being removable through the top of the body member when the valve seat member is removed and adapted to be opened from said valve seat by a water conduit inserted through and turned in the top of the body member, means detachably connected to the body member and having a portion overlying the upper part of the valve seat member and positively holding the valve seat member from unscrewing in the body member, and an automatically operable shut-off valve engageable with the body member to close passage therethrough when the valve seat member is moved upwardly in the body member.

2,278,581
ATTIC VENTILATOR

MacDougald Dexter, Columbus, Ga.

Application February 16, 1940, Serial No. 319,198
1 Claim. (Cl. 98—43)

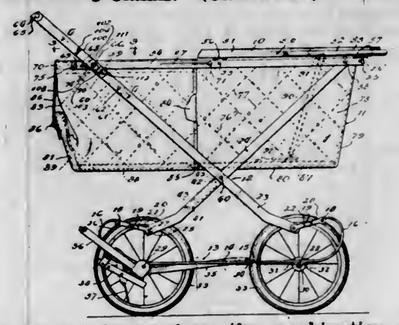


A ventilating system for structures, comprising a room to be ventilated having an apertured ceiling and an overhead attic forming a plenum chamber with vents to the outer atmosphere, and a centrifugal suction fan assembly mounted in the attic over the ceiling aperture and comprising a horizontal stationary bottom plate mounted on the ceiling joists with a center opening registering with said aperture to admit air from the room to the attic and having its outer marginal edge upturned slightly away from the top of the ceiling, and a rotatable impeller suction fan having a motor driven top disc carrying marginal dependent blades disposed to travel close to said plate and inwardly from its marginal upturned edge, whereby a dispersion of the induced room ventilating current throughout the attic is effected to establish therein a turbulent plenum of air with movement over said ceiling to cool its attic side.

2,278,582
BABY CARRIAGE

Abraham G. Feldman, Chicago, Ill., assignor to Storkline Furniture Corporation, Chicago, Ill., a corporation of Illinois

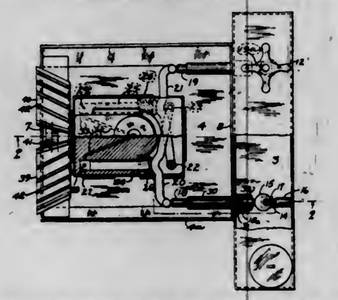
Original application March 27, 1939, Serial No. 264,282. Divided and this application May 4, 1940, Serial No. 333,397
5 Claims. (Cl. 280—41)



1. In a baby carriage, the combination of a chassis with a collapsible framework, a basket-supporting frame carried by said framework and pivotally secured thereto at the upper ends of the framework, the framework including an elongated lever a second lever pivotally secured to said elongated lever and to said frame and extending beyond said frame and secured to a handle, said elongated lever overlapping said second lever, a latching notch carried by the end

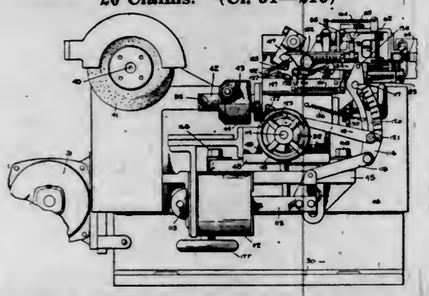
of said overlapping portion of said elongated lever, a slider carried by said second lever and having a transverse shoulder for engaging in said notch, and spring means engaging said second lever and said slider for urging said shoulder into said notch, said slider comprising a pair of plates mounted on the opposite sides of said second lever and joined together with fixed members extending through said second lever, said second lever having slots for said fixed members.

2,278,583
JOURNAL LUBRICATOR
James J. Hennessy, New York, N. Y.
Application April 18, 1940, Serial No. 330,241
12 Claims. (Cl. 308—84)



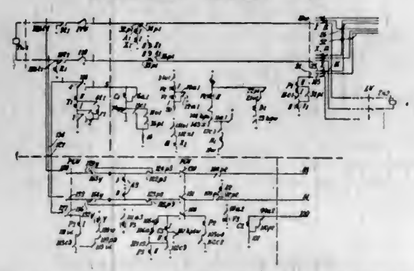
1. In combination with a railway axle journal lubricator having a lubricant cellar and a reservoir adjacent thereto and communicating therewith, a pump including a piston in said cellar, driving mechanism in said reservoir arranged for actuation by relative movement of the journal to which the lubricator is applied, and a pump operating rod between said mechanism and piston, said rod comprising two separate parts, one part being mounted in said cellar and the other part being mounted in said reservoir.

2,278,584
AUTOMATIC FINISHING MACHINE
Eric W. Peterson, Oak Park, Ill., assignor to Remington Arms Company, Inc., a corporation of Delaware
Application April 9, 1940, Serial No. 328,641
20 Claims. (Cl. 51—216)



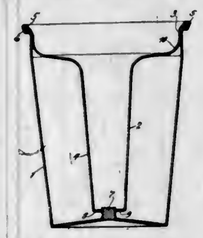
1. In a universal machine for operating upon each of the several surfaces of a multiple surface rotary tool, the combination comprising: an adjustable indexing means to rotate the tool a predetermined amount readily adjustable in accordance with the number of tool surfaces, so that a new surface is in position to be operated upon after the preceding surface has been operated upon; indexing means to move the tool after a complete revolution thereof, so that a further predetermined operation will take place upon each of the several surfaces as the tool is rotated by the first mentioned indexing means; and an adjustable indexing means to stop the machine only after an optionally selectable predetermined number of complete revolutions of the tool.

2,278,585
TELEPHONE SYSTEM
Walter Pinell, Falkensee, Germany, assignor to "Fides Gesellschaft für die Verwaltung und Verwertung von gewerblichen Schutzrechten mit beschränkter Haftung," Berlin, Germany, a corporation of Germany
Application January 8, 1940, Serial No. 312,811
In Germany January 17, 1939
14 Claims. (Cl. 179—27)



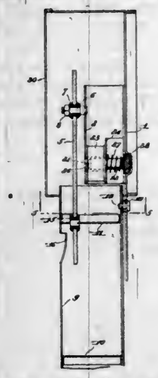
1. In a telephone exchange having trunk lines to another exchange, subscribers' lines, switching apparatus operable on an outgoing call from one of said subscribers' lines to extend a connection from the calling line to one of said trunk lines, and means operated on an incoming call received over one of said trunk lines to select the desired subscriber's line and then to operate said apparatus to extend a connection from the selected subscriber's line to the trunk line over which said incoming call was received.

2,278,586
INFANT'S DRINKING CUP
Charles E. Potter, Richmond Heights, Mo.
Application May 10, 1940, Serial No. 334,324
2 Claims. (Cl. 65—13)



2. An infant's drinking cup including an outer cup container and a measuring shell in the cup having integrally, a bowl portion with a peripheral flange overhanging the rim of the container and a reduced depending tubular portion extending toward the bottom of the container with a port at the bottom thereof, said container and shell being in threaded engagement whereby the flange is brought into sealing engagement with the rim and a vent for the space between the container and the shell.

2,278,587
CHIME SIGNAL
Lloyd Rittenhouse, Honeoye Falls, N. Y., assignor to The A. E. Rittenhouse Co., Inc., Honeoye Falls, a corporation of New York
Application September 18, 1940, Serial No. 357,305
4 Claims. (Cl. 177—7)

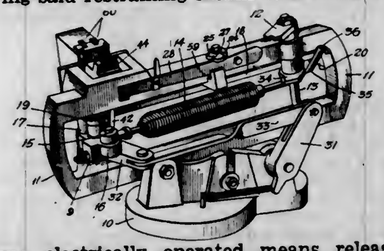


1. In a chime signal, the combination with a supporting panel and a resonance chamber in the form of a hollow body, means for mounting the resonance chamber on the panel, the chamber being parallel to and extending forwardly from the panel, of a transverse closure in the chamber adjacent to the end nearest to the panel, said closure having an opening therein, a vibratory bar in alinement with and extending outwardly from the panel, the inner end of the bar extending through the opening in said closure into the chamber and the outer end of said bar being outside the chamber, the chamber having an opening opposite the inner end of the bar, an electrically operated striker mechanism outside the chamber and including a striker engageable with the bar at a point outside the chamber, and means for mounting the vibratory bar and striker mechanism on the panel.

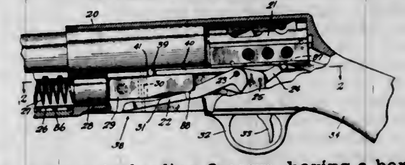
2. In a chime signal, the combination with a supporting panel and a group of resonance chambers, each of the chambers being in the form of an elongated hollow body, means for mounting the chambers on the panel, the chambers being in parallel juxtarelation to each other and parallel to, in alinement with and extending forwardly from the panel, a group of vibratory bars arranged parallel to each other and parallel to, in alinement with and extending outwardly from the panel, each bar corresponding to one of said chambers and being located partially thereabove, a vertical wall on which said vibratory bars are mounted, said vertical wall being located above the resonance chambers and attached to the supporting panel, and a group of electrically operated striker mechanisms located above the resonance chambers and secured between said vertical wall and the supporting panel, each striker mechanism including a striker engageable with one of the vibratory bars at a point outside the resonance chambers.

2,278,588
RELEASE MECHANISM
Everett M. Roeder, Merrick, and William Simonson, Mineola, N. Y., assignors to Remington Arms Company, Inc., a corporation of Delaware
Application May 15, 1940, Serial No. 335,250
5 Claims. (Cl. 124—32)

1. Apparatus for the control of the release of a target trap having a target throwing movement comprising: a latch; a restraining means therefor; means urging said restraining means to effective position; a pivoted lever having a cam for moving said restraining means to ineffective position; electrically operated means releasably holding said restraining means in effective position; means to render said pivoted lever and cam ineffective as an incident to the target throwing movement so that the restraining means may return to effective position.



2,278,589
FIREARM
Peter B. Rutherford, Bridgeport, Conn., assignor to Remington Arms Company, Inc., a corporation of Delaware
Application November 9, 1940, Serial No. 365,004
10 Claims. (Cl. 42—17)



1. In an auto-loading firearm, having a barrel, a receiver and a magazine, said receiver having an aperture giving access to the magazine, a carrier for transferring cartridges from the magazine to the barrel, means for retaining said carrier in a position blocking said aperture, and reciprocating means to automatically release said retaining means so that the magazine may be loaded with one hand.

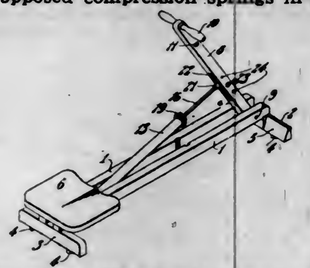
2,278,590
CATALYTIC CRACKING OF HYDROCARBONS
Robert F. Ruthruff, Chicago, Ill.
No Drawing. Application October 20, 1939, Serial No. 300,390
18 Claims. (Cl. 196—52)

7. A method of converting higher boiling hydrocarbons to hydrocarbons of lower boiling point comprising vaporizing the higher boiling hydrocarbons and passing the vapors for a time sufficient to effect the required conversion, in contact at a cracking temperature with a magnesium silicate pseudomorph of calcium silicate.

2,278,591
EXERCISING DEVICE
Anthony F. Sak, Bernardston, Mass.
Application April 2, 1941, Serial No. 386,436
8 Claims. (Cl. 272—72)

1. An exercising device comprising a pair of spaced, parallel frame members, a seat supported on said members at one end thereof, a handle pivotally supported between said frame members adjacent the opposite end thereof, a cylin-

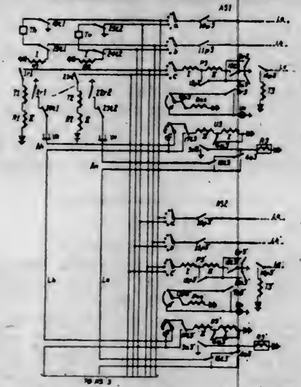
der pivotally supported between said frame members beneath said seat, a piston in said cylinder, opposed compression springs in said cylinder on either side of said piston and acting on said piston, said piston being provided with a connecting rod which is pivotally secured on said handle.



2,278,592
CONTACT ELEMENT
Vernon H. Sanders, Norbert J. Schaberl, and Erle I. Shobert, II, St. Marys, Pa., assignors to Stackpole Carbon Company, St. Marys, Pa., a corporation of Pennsylvania
No Drawing. Application April 23, 1940, Serial No. 331,156
4 Claims. (Cl. 75—22)

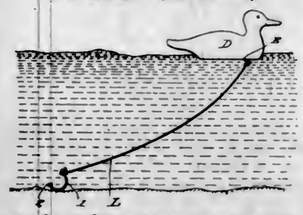
1. The method of making an electrical contact element, comprising cold molding a mixture of alloy-forming metal powders and a deoxidizing agent to the back of a layer of powdered electric contact face material to form a powdered composite body, and then hot molding said body to provide an alloy integrally united to the back of a metallic contact face, said alloy containing sufficient deoxidizing agent to serve as a flux when the contact element is welded or brazed to a metal support.

2,278,593
TELEPHONE SYSTEM
Wilhelm Scheller, Senzig, near Konigswusterhausen, Germany, assignor to "Fides Gesellschaft für die Verwaltung und Verwertung von gewerblichen Schutzrechten mit beschränkter Haftung," Berlin, Germany, a corporation of Germany
Application March 21, 1939, Serial No. 263,277
In Germany March 21, 1938
9 Claims. (Cl. 179—18)



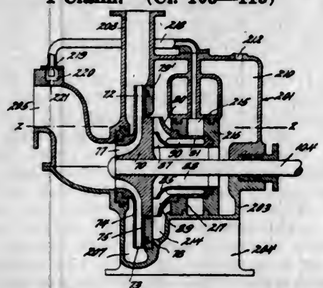
1. In a telephone system, subscribers' lines, finder switches adapted to search for and seize calling ones of said lines, means at times controlled by the initiation of calls from two of said lines in rapid succession for starting a first switch to search for one of the calling lines and starting a second switch to search for the other of the calling lines even before said first switch has found said one line, said means at other times controlled by the initiation of calls from two of said lines in rapid succession for starting a first switch to search for one of the calling lines and then starting a second switch to search for the other of the calling lines only responsive to said first switch finding said one line.

2,278,594
DECOY ANCHOR
Charles O. Smith, Virginia, Minn.
Application November 6, 1940, Serial No. 364,590
7 Claims. (Cl. 43—3)



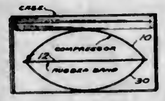
1. An anchor for engagement with the bed of a stream to prevent a decoy from drifting, said anchor including a normally open, one-piece split ring of inert heavy material proportioned to surround a portion of a decoy and abut end to end and finger pieces at the ends of the split ring, there being means on the ring for engagement by a line extending from a decoy.

2,278,595
PUMP
Frank E. Stelzer, Lynbrook, N. Y.
Original application November 5, 1935, Serial No. 48,411. Divided and this application April 24, 1939, Serial No. 269,723
1 Claim. (Cl. 103—113)



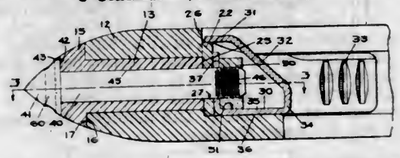
A self-priming centrifugal pump comprising, in combination, a casing and a double integrally formed impeller member disposed therein and provided with a centrifugal liquid transfer impeller section and a double-bucketed aspirating section, an impeller chamber and discharge opening in said casing for said first named impeller section, an inlet conduit for liquid to be transferred by said first named impeller section; an impeller chamber for said aspirating impeller section, an inlet chamber for fluid to be aspirated thereby, an inlet chamber for the aspirating medium, a priming liquid reservoir, connections between said priming liquid reservoir and the discharge side of said impeller chamber of the aspirating section and the inlet chamber for the aspirating medium whereby the priming liquid may be recirculated during operation, a conduit connecting the upper portion of said liquid inlet conduit with the inlet chamber for the aspirated fluid in the suction pump, an enlargement in the inlet end of said conduit providing a valve chamber, a check valve body in said chamber adapted to be moved to close said conduit upon flow of liquid through said valve chamber but not moved to closed position by flow of air, said liquid actuated check valve being the sole means for controlling the flow of fluid through said connecting conduit.

2,278,596
COMPRESSOR FOR PAMPHLETS AND THE LIKE WITHIN CASES
Gustave R. Thompson, New York, N. Y.
Application October 15, 1940, Serial No. 361,251
3 Claims. (Cl. 129—32)



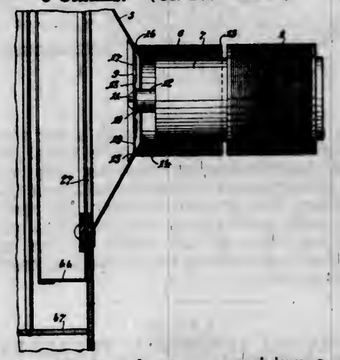
1. A compressor for use in a case, for pressing together pamphlets, periodicals and the like, partially filling the case, so that they will stand upright therein, comprising a pair of unweakened sheets of flexible material attached together at two opposite sides, which are substantially uniformly flexible from side to side, and elastic means attached to said sheets at the two opposite connected sides and extending between the sheets, and tensioned to bow the sheets in opposite directions so as to press on said contents of the case and to automatically expand or contract as the contents of said case are increased or diminished.

2,278,597
SHUTTLE FOR WEFT REPLENISHING LOOMS
Richard G. Turner, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application December 16, 1940, Serial No. 370,335
3 Claims. (Cl. 139—207)



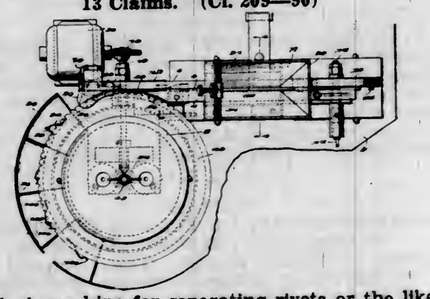
1. In a shuttle having an end projecting beyond a weft compartment therein, a bushing extending through said one end of the shuttle to the weft compartment, bobbin holding jaws located within the weft compartment comprising two arms extending longitudinally of the shuttle connected together by a cross bridge which abuts that end of the bushing nearest the longitudinal center of the shuttle, a bobbin guide having a section inclined downwardly and toward the longitudinal center of the loom and having also a vertical portion extending along the bridge, a conical tip for said end of the shuttle projecting beyond the bushing and having a shank extending through the bushing and also through the bridge and last named vertical portion of said bobbin guide, and a nut threaded on to the end of the shank, the nut and threaded end of the shank holding the tip against one end of the bushing and holding the bridge against the other end of the bushing and serving also to hold said last named vertical portion of the bobbin guide against the bridge.

2,278,598
SOUND REPRODUCER
Eugene T. Turney, Holmes, N. Y., assignor of five per cent to James B. Stuart, Hollywood, Calif.; five per cent to B. C. Fields, nine and three-hundred-seventy-five thousandths per cent to William T. Orr, and twenty-eight and one-hundred-twenty-five thousandths per cent to Gladys Orr Hall, all of Los Angeles, Calif.
Application September 6, 1940, Serial No. 355,583
3 Claims. (Cl. 179—115.5)



1. A sound reproducer, comprising a soundboard having a sound opening therein, a cone secured over said opening, a ring secured to the inner portion of said cone, a field core, a voice coil carried by the cone, in cooperative relation with said field core and a spider having a relatively thick hub portion secured to said field core and curved radiating arms with relatively thick intermediate portions and relatively thin end portions, said relatively thin end portions of said arms being connected respectively with said relatively thick hub portion and with said ring.

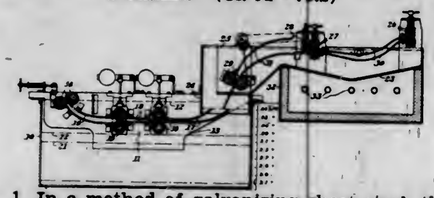
2,278,599
SORTING MACHINE
Herman E. Veit, Parkville, Md., assignor to The Glenn L. Martin Company, Baltimore, Md.
Application May 14, 1940, Serial No. 335,041
13 Claims. (Cl. 209—90)



1. A machine for separating rivets or the like having round and countersunk heads in accordance with their head type and length comprising a disc having means to hold rivets in the periphery thereof, means adjacent the point

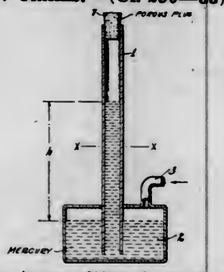
where the rivets are fed to the disc to remove from the disc rivets having one type of head while permitting rivets having the other type of head to pass by such point, and a plurality of means spaced further along the periphery of the disc for successively removing therefrom rivets of progressively varying length.

2,278,600
METHOD FOR COATING SHEET METAL
Raymond J. Wean, Warren, Ohio, assignor to The Wean Engineering Company, Inc., Warren, Ohio, a corporation of Ohio
Application November 30, 1938, Serial No. 243,146
2 Claims. (Cl. 91—70.2)



1. In a method of galvanizing sheet steel, the steps including passing the base metal through a spelter bath including zinc-iron alloy, the iron of said alloy being of the order of 2% of the bath throughout the greater portion of the depth thereof, and maintaining said metal at all times in the top 40% of the depth of the bath in which the iron content of the bath is materially lower than 2%.

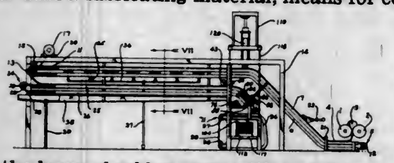
2,278,601
ANTENNA TUNABLE IN ITS LENGTH
Ernst Werndl, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application December 9, 1939, Serial No. 308,348
In Germany November 9, 1938
7 Claims. (Cl. 250—33)



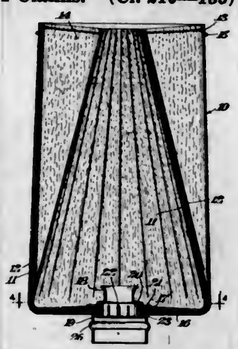
1. A radio transmitter including a variable length radiating member and means for supplying high frequency energy thereto, said member being adapted to control the frequency of said energy in accordance with its length and means for varying said length in accordance with predetermined meteorological conditions.

2,278,602
METHOD AND APPARATUS FOR PREPARING AND HANDLING RUBBER MATERIAL
George F. Wikle, Detroit, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application March 8, 1939, Serial No. 260,520
15 Claims. (Cl. 91—14)

1. An apparatus for manipulating rubber stock comprising, means for supplying a moving layer of relatively hot rubber composition in sheet form, means for coating one side of the moving layer with a lubricating material, means for cooling the layer of rubber composition while so moving, means for cutting the moving layer into slabs, and means for stacking the slabs in superimposed relation.



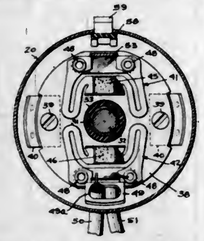
2,278,603
FILTER
Lewis W. Williams, Short Hills, N. J., assignor to Motor Improvements, Inc., Newark N. J., a corporation of Delaware
Application November 13, 1939, Serial No. 303,934
11 Claims. (Cl. 210—185)



1. A filtering element comprising two contacting disk-shaped layers of filtering material joined at their edges, a sheet of drainage material of smaller area than said layers between the said layers and arranged centrally thereof, an opening through the central part of said sheet and said layers, an apertured drainage tube passing through said opening, and means clamping the layers in contact with the drainage tube, the aperture in said tube communicating only with the space between the layers of filtering material in which said drainage sheet is enclosed, the outer edges of the layers of filtering material out of contact with the drainage sheet being folded so that the outer edges of the folds define an overall cylindrical structure perpendicular to the plane of that portion of the element coextensive with the drainage sheet.

2,278,604
BRUSH RIGGING
Joseph Youhouse, Fairfield, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut
Original application July 18, 1940, Serial No. 346,095. Divided and this application May 27, 1941, Serial No. 395,369
13 Claims. (Cl. 171—324)

1. In an electric motor having an armature and a commutator mounted on a rotatable shaft, and a casing enclosing said motor, a brush rigging comprising a fixed support mounted adjacent the commutator; a brush holder comprising a resilient strip of sheet metal; means for securing said strip to said support; and a plurality of tabs bent at right angles to the plane of the strip to form a socket for holding the brush, said resilient strip being adapted to urge

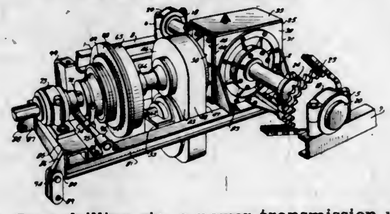


said socket in the direction of the contact surface of the commutator.

2,278,605
METHOD OF MANUFACTURING HYDROGEN PEROXIDE
Gustav Adolph, Solin, Germany, and Max E. Bretschger, Buffalo, N. Y., assignors to Buffalo Electro-Chemical Company, Inc., Buffalo, N. Y.
No Drawing. Application May 14, 1937, Serial No. 142,671
5 Claims. (Cl. 23—207)

1. The method of producing hydrogen peroxide in one stage from acid electrolyte solutions containing the persulfate radical which comprises passing the electrolyte through a heated distilling zone and adding fresh electrolyte to the distilling mixture at a plurality of points along the passage of the distilling liquid through the distilling zone whereby the concentration of acid in the distilling mixture is maintained substantially constant.

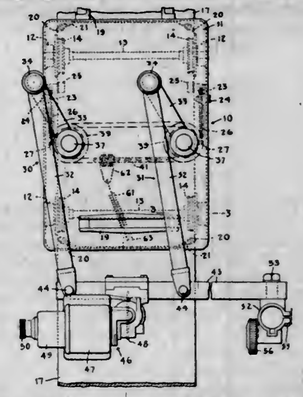
2,278,606
TRANSMISSION MOUNTING FOR DRILLING RIGS
Emmett Lee Alexander and Albert W. Braithwaite, Enid, Okla., assignors to The George E. Failing Supply Company, Enid, Okla., a corporation of Oklahoma
Application February 28, 1941, Serial No. 381,056
12 Claims. (Cl. 74—16)



1. In a drilling rig, a power transmission unit, a main frame, a line shaft supported on the main frame, a supporting frame for the power transmission unit, means pivotally carrying one end of the last named frame on the line shaft, and means floatably supporting the opposite end of the last named frame on the main frame.

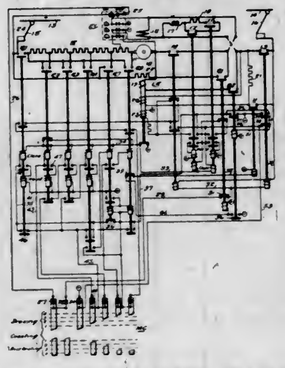
2,278,607
UNIVERSAL TORCH MACHINE
James L. Anderson, Closter, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application May 7, 1940, Serial No. 333,720
9 Claims. (Cl. 266—23)

5. A universal cutting machine including a carriage that is movable along a support to increase the range of operation of the machine, a folding parallelogram linkage connected to the carriage for supporting a torch and tracer for movement with respect to the carriage in any and changing directions in a plane along similar



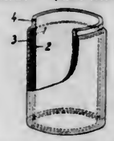
paths, and a spring operatably connected with the carriage and the linkage in position to resist said movement with respect to the carriage of one or more of the links of said linkage so that the force of the tracer urging said movement of the linkage is transmitted to the carriage to move the carriage along its support.

2,278,608
MOTOR CONTROL SYSTEM
Bascum O. Austin, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 26, 1940, Serial No. 347,688
7 Claims. (Cl. 172—179)



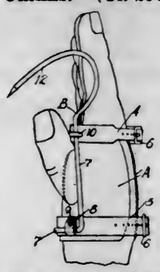
2. In a motor control system, the combination with a motor and a source of power therefor, of switching means for connecting the motor to the power source, additional switching means for establishing dynamic braking connections for the motor, a resistor for controlling the motor current, switches for shunting the resistor during acceleration and dynamic braking of the vehicle, a master controller for controlling the operation of said switching means, and an emergency controller for establishing electric braking connections for the motor independently of the master controller and said switching means.

2,278,609
METHOD OF PRODUCING WATERPROOF FILMS AND HOLLOW BODIES
Kurt Bratring, Dahlem, Berlin, Germany, assignor, by mesne assignments, to Neocell Products Corporation, a corporation of Delaware
Application November 18, 1937, Serial No. 175,347
In Germany November 30, 1936
3 Claims. (Cl. 229—3.5)



1. A moisture-proof container composed of a plurality of layers of a cellulose derivative and a layer of a moisture-proof material positioned between said cellulosic layers and bonded thereto, all of said layers being so shaped as to provide a seamless container having a bottom and upstanding sidewalls, the layers of cellulosic material extending out beyond the moisture-proof layer and being bonded directly to each other to form a substantially homogeneous rim at the open end of said container, said rim being thinner than the remainder of said side walls by the thickness of said layer of moisture-proof material.

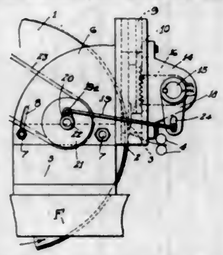
2,278,610
BUNDLE PICKER
Percy Brownson and Herman A. Keely, Hastings, Minn.
Application October 7, 1940, Serial No. 360,112
7 Claims. (Cl. 294—25)



1. A device of the class described comprising a gauntlet adapted to encircle the hand and wrist of the wearer, means for securing said gauntlet on the hand and wrist behind the wearer's fingers consisting of strap means at the wrist end of the gauntlet, a lifting device comprising a cross rod securely connected with said wrist strap, said rod connecting with side rods extending forwardly along the sides of the gauntlet and fork tines projecting outwardly above and adjacent the gauntlet.

2,278,611
COMB FOR CARDING MACHINES
Alexander Cavedon, Woonsocket, R. I.
Application May 20, 1940, Serial No. 336,115
3 Claims. (Cl. 19—166)

1. In a carding machine having a doffer roll, a bracket positioned adjacent each end of the roll, a support adjustably mounted on each bracket, each support having a substantially vertical guide therein, a plunger positioned in each guide, a comb extending between the supports and having upwardly extending projections on opposite ends thereof, means for connecting each of the projections to the adjacent plunger adjacent the top thereof, and means acting directly

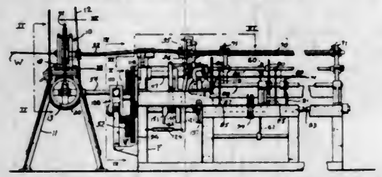


on said plungers for reciprocating them in unison.

2,278,612
METHOD OF MAKING CELLULOSE GLYCOLLIC ACID
William R. Collings, Richard D. Freeman, and Robert C. Anthonisen, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application March 28, 1941, Serial No. 385,698
4 Claims. (Cl. 260—231)

1. The method which comprises first impregnating cellulose with a water solution of from 30 to 80 per cent concentration of a chloroacetic compound selected from the group consisting of chloroacetic acid and the water-soluble salts thereof, and impregnating the so-treated cellulose with an alkali metal hydroxide solution of from 30 to 55 per cent concentration, under conditions such as to provide, in the mass, a composition consisting of from 17 to 33 per cent of cellulose; from 27 to 54 per cent of water, including that which may be formed by reaction between the chloroacetic compound and the alkali metal hydroxide; from 10 to 30 per cent of the alkali metal hydroxide, in excess over that which may react with the chloroacetic compound; and from 6.7 to 25 per cent of the chloroacetic compound, calculated as chloroacetic acid; and allowing the said composition to react at a temperature between about 0° and about 80° C. to produce an alkali metal salt of cellulose glycollic acid which is substantially completely soluble in water at room temperature.

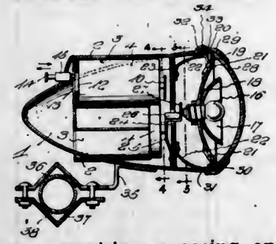
2,278,613
BALE TIE MAKING MACHINE
George K. Gaumer, Sterling, Ill., assignor to Northwestern Steel and Wire Company, Sterling, Ill., a corporation of Illinois
Application September 25, 1940, Serial No. 358,227
20 Claims. (Cl. 140—73)



1. A bale tie machine comprising positively driven pairs of feed rollers gripping a plurality of wires therebetween, a plurality of open bottomed elongated guides receiving the wires from the feed rolls, shiftable closures for said guide bottoms to retain the wires therein, an apertured block between the feed rolls and guides

receiving the wires through the apertures thereof, knife carriages rockable over the face of the block where the wires emerge, knives detachably secured in said carriages, a rock shaft for moving the knives past the apertures to sever the wires and for shifting said guide closures to discharge the severed wires out of the guides, conveyors beneath the guides receiving said wires, a main drive shaft, a pawl and ratchet connection between said main drive shaft and said conveyors for moving the conveyors to advance the wires step by step, peripherally notched work supports receiving the wires from the conveyors, a main cam shaft driven from said main drive shaft, a cam and ratchet connection between said cam shaft and said work supports to rotate the supports for advancing the wires around the top portions thereof, a pusher successively engaging the end of each wire in the work supports to longitudinally shift said wires, a magnet acting on the shifting wires to arrest movement of the wires beyond the stroke of the pusher, a gripper receiving each shifted wire therebetween, a looper for looping the end of the wire, a wire straightener movable against the wire to cooperate with the looper for eliminating bowing of the wire, and cams on said main cam shaft actuating said pusher, gripper, looper and straightener.

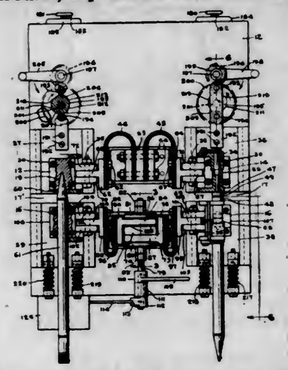
2,278,614
BICYCLE LAMP
Claud J. James, Milwaukee, Wis.
Application July 17, 1940, Serial No. 346,039
3 Claims. (Cl. 240—7.55)



2. A lamp comprising a casing open at its front, and provided with pockets spaced from each other circumferentially of the casing with portions opening into the casing, a battery mounting consisting of holders united in side by side relation to each other as a unit and removably mounted in said casing with portions engaged in the pockets and open ends presented forwardly, insulated batteries in said holders connected in series, a switch carried by said casing for engaging the shell of an end battery of the series when in circuit closing position, a mounting removably inserted in the open front end portion of said casing, and including an insulated contact for engaging the center terminal of the other end battery of the series and a ring of conductive metal for engaging the casing, a metal plate seated against said ring, a reflector carried by said plate, a bulb mounted through said reflector with its center terminal engaging the contact strip, and a lens removably mounted at the front end of the casing.

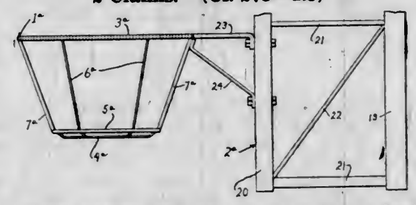
2,278,615
DUAL FLASH WELDING APPARATUS
Albert A. Jens, St. Paul, Minn.
Application November 22, 1940, Serial No. 366,568
3 Claims. (Cl. 219—4)

1. A duel flash-welding apparatus, comprising a source of primary current, a transformer to which said primary current is fed and by which a secondary or welding current is generated, a plurality of independent circuits for said welding current, an independent work-holding vise with means for holding the work to be welded in each of said circuits, separate means for each of said



independent circuits for controlling the volume of primary current going to the transformer, and means for simultaneously breaking one of said circuits and closing the other and for shifting the primary current from passing through one of said volume regulating means and causing it to pass through the other volume regulating means.

2,278,616
BASKETBALL GAME APPARATUS
Willard S. Kettering, Pueblo, Colo.
Application August 29, 1940, Serial No. 354,745
2 Claims. (Cl. 273—1.5)

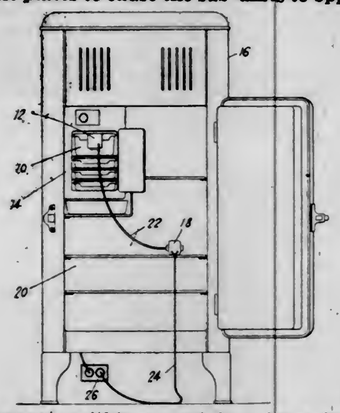


1. In a basket ball game apparatus, a basket comprising upper, intermediate and lower rings of progressively decreasing diameters, and downwardly converging spokes connecting the rings, the spokes being located outside the intermediate ring, whereby the intermediate ring will project into the basket, beyond the spokes, and afford a circumferentially continuous shoulder, retarding the downward movement of a ball long enough to afford a visible signal when the ball moves downwardly anywhere about the circumference of the basket.

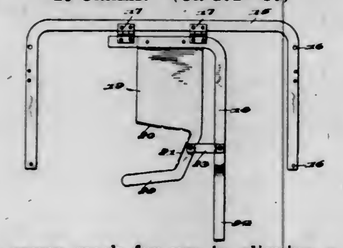
2,278,617
REFRIGERATOR ICE CREAM FREEZER
Leroy H. Knibb, Sabot, Va.
Application July 30, 1940, Serial No. 348,353
4 Claims. (Cl. 62—114)

1. An ice cream freezer agitator unit comprising rigidly connected pairs of rigid plates with the connected plates of the different pairs forming relatively movable sub-units, one plate of each sub-unit being disposed between the plates of another sub-unit, and an operating shaft extending through all of the plates to rigidify the

unit, the shaft also having operative connections with the plates to cause the sub-units to oppositely reciprocate within a container for a freezing mixture.



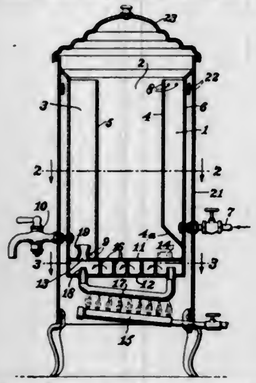
2,278,618
DIE ASSEMBLY
Chesterton S. Knight, Brockton, Mass., assignor to Benjamin W. Freeman, Cincinnati, Ohio
Application May 7, 1940, Serial No. 333,857
19 Claims. (Cl. 101—30)



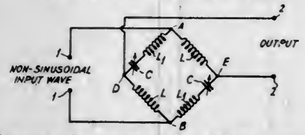
1. A gauge mask for use in aligning a workpiece on a support to a die, comprising a supporting frame, a gauge frame movably attached thereto, and having an operating portion disposed substantially entirely in a single plane, gauging means carried by said movable frame and disposed in the plane thereof, said gauging means presenting an edge conforming to a predetermined characteristic of the workpiece, said mask being shaped, constructed and arranged to provide free clearance for an operator's hand holding the workpiece against said work support, whereby said gauge frame may be freely swung to position past the operator's hand.

2,278,619
LIQUID HEATER
Norton B. Leo, deceased, late of Yonkers, N. Y., by Charlotte E. Leo, administratrix, Tuckahoe, N. Y., assignor to Heat-Pump Corporation, New York, N. Y.
Application June 21, 1940, Serial No. 341,764
19 Claims. (Cl. 126—350)

5. A liquid heater comprising a main compartment and a draw-off compartment having a communication between them to permit equalization of their liquid levels, means forming a passageway between the compartments which may be subjected to high heat, means forming another passageway between the compartments of circuitous formation and which may be subjected to heat, and means for combining the streams from the passageways with an ejector action so that the highly heated stream stimulates circulation through the circuitous passageway to overcome the frictional resistance it offers to the flow of liquid.



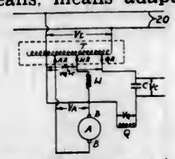
2,278,620
HARMONIC ATTENUATION FILTER
Oliver S. Meixell, Verona, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 29, 1940, Serial No. 337,753
4 Claims. (Cl. 178—44)



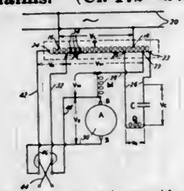
1. A harmonic suppression filter comprising a network having input terminals A and B, and output terminals D and E, series-resonant branches, one connected between input terminal A and output terminal D, the other series-resonant branch connected between input terminal B and output terminal E, an inductive branch connected between terminals A and E, a second inductive branch connected between terminals B and D, said series resonant branches being tuned to a fundamental component of a non-sinusoidal wave to be filtered, and each of said inductive branches having a value equal to substantially three-fourths of the value of the inductive element in each series-resonant branch, whereby a low order harmonic component with respect to said fundamental component is substantially infinitely attenuated.

2,278,621
VOLTAGE REGULATOR
Austin S. Norcross, Waban, Mass.
Original application August 30, 1937, Serial No. 161,614. Divided and this application May 10, 1939, Serial No. 272,779
10 Claims. (Cl. 171—119)

2. A transformer for simultaneously obtaining a plurality of variable output voltages for a plurality of loads from a single A. C. source comprising, a magnetic core, winding turns wound on said core, a plurality of power transmitting means cooperating with said winding turns, control means for simultaneously moving said power transmitting means with respect to said winding turns, said control means moving each power transmitting means over a different number of turns than each other transmitting means on said winding turns, during a given movement of said control means, means adapted to connect each power transmitting means to one side of a separate load respectively, means adapted to connect the other sides of said loads to fixed points on said winding turns, and means adapted to connect fixed points on said winding turns to a source of A. C.



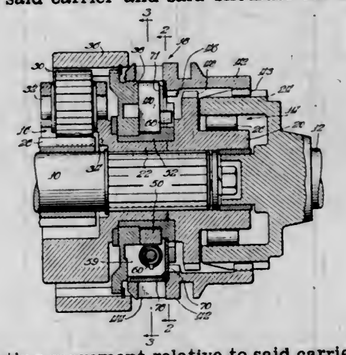
2,278,622
ALTERNATING CURRENT COMMUTATOR MOTOR
Austin S. Norcross, Waban, Mass.
Application February 1, 1941, Serial No. 377,021
6 Claims. (Cl. 172—276)



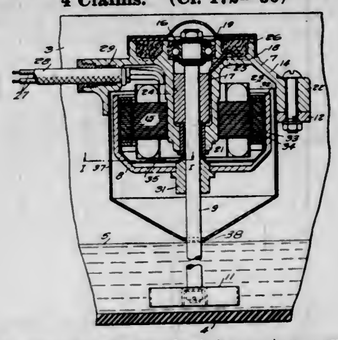
1. In combination, an alternating current motor comprising a main winding, a rotor having a coiled commutator armature winding, brushes placed substantially along the axis of said main winding, a quadrature winding spaced ninety electrical degrees from the main winding and means for depnasing the current in the quadrature winding; magnetic core means, winding means wound around said core means connectable to a main line, a circuit for said quadrature winding and dephasing means connected to two fixed points on said magnetic core winding means, a circuit for said main winding connected to a fixed point on said magnetic core winding means and a circuit for said armature winding connected to a fixed point on said magnetic core winding means, the free ends of said main and armature circuits being selectively connectable through a common power transmitting means to a plurality of points on said core winding means intermediate the fixed points of connection of the other ends thereof to provide inversely variable voltages in said main and armature windings, and means for connecting said main and armature circuits to said magnetic core winding means to provide adjustable armature voltages of reversed phase on such selectively variable connection of said power transmitting means.

2,278,623
CENTRIFUGAL POSITIVE CLUTCH
Palmer Orr, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application April 26, 1939, Serial No. 270,071
16 Claims. (Cl. 192—105)

13. In a centrifugal clutch in combination with a rotatable shell including a peripheral region having a pawl-receiving opening and an inwardly projecting shoulder, a rotatable pawl carrier within the space defined by said peripheral region and said shoulder, a centrifugal force-responsive pawl carried by said carrier and adapted, above a predetermined speed of rotation, to be projected into said opening so as to establish a direct drive coupling between said carrier and shell, a blocking ring mounted between said carrier and said shoulder for limited oscillating movement relative to said carrier, said blocking ring having a portion in frictional engagement with said shell and having a portion adapted as the result of torque received by said ring from the shell through said frictional engagement when said carrier and sleeve are rotating differentially, to be biased to a position of said oscillating movement wherein it obstructs radial advance of said pawl.



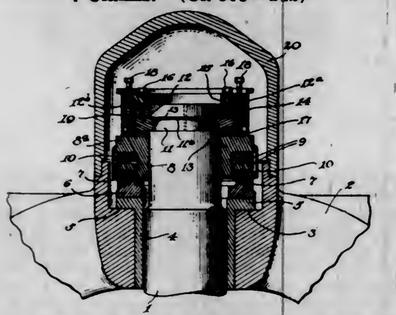
2,278,624
MOTOR-DRIVEN MECHANISM
Lewis C. Packer, Longmeadow, and Elo C. Tanner, Springfield, Mass., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 14, 1941, Serial No. 374,348
4 Claims. (Cl. 172—36)



3. A vertical-shaft electric motor comprising a motor-stator member having a stator-frame, an electrically wound stator-core, a thrust-bearing, a guide-bearing, and a cup-shaped motor-rotor member; said stator-frame having a centrally perforated, horizontally extending upper frame-portion, and a centrally disposed, centrally perforated, downwardly depending frame-portion; the thrust-bearing being secured in the central perforation of the horizontally extending upper frame-portion; a motor-shaft suspended from said thrust-bearing; the guide-bearing being mounted within the central perforation in said centrally disposed depending frame-portion and the shaft being journalled in said guide-

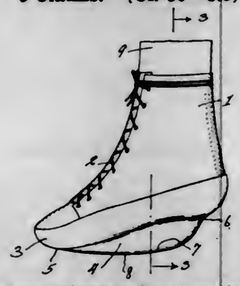
bearing; the electrically wound stator-core being disposed around, and supported by, said centrally disposed depending frame-portion; the cup-shaped motor-rotor member having a lower hub member mounted on the shaft in spaced relation underneath the stator-core, and an upper peripheral member extending up in spaced relation around the stator-core.

2,278,625
SUSPENSION FOR CRUSHER SHAFTS
Samuel W. Traylor and Charles H. Patten, Allentown, Pa., assignors to Traylor Engineering and Manufacturing Company, Allentown, Pa., a corporation of Delaware
Application January 3, 1941, Serial No. 373,044
7 Claims. (Cl. 308—142)



2. A support for a vertical crusher shaft comprising a collar composed of a plurality of independent sections adapted to encircle the shaft, a rib upon the inner circumference of said collar and receivable within a recess extending about the outer circumference of the shaft, the coacting bearing races of the rib and the upper side wall of the recess being inclined outwardly and upwardly, whereby the downward pressure exerted by the shaft tends to force said sections apart to release the shaft, and a removable retainer member encircling the collar for holding the sections in assembly with the shaft.

2,278,626
CAST SUPPORT
John R. Vasko, Great Falls, Mont.
Application March 27, 1941, Serial No. 385,569
6 Claims. (Cl. 36—8.5)



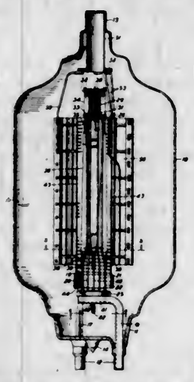
1. A foot supporting and cast protecting means, comprising a bumper body of resilient material designed to be positioned beneath the sole of the foot, the body having a length extending longitudinally of the foot, and means for securing said body to the foot, the body having its major height located beneath the arch of the foot, said body having a ground engaging portion having a longitudinally convex form and transversely convex

2,278,627
MOLDING
James H. Wernig, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 26, 1941, Serial No. 385,330
2 Claims. (Cl. 189—88)



2. In combination, a structural element having its long edges bent back upon themselves to form opposed substantially rectangular channels, an anchoring strip disposed substantially crosswise of said element with its ends in said channels, a flange at each end of said strip to space the strip against one side of the channels, a recess near each end of the strip, and punched-out portions in the channel sides against which the strip is held by its flanged ends, said punched-out portions cooperating with said recesses to hold the strip and element in permanently assembled relation.

2,278,628
ELECTRON DISCHARGE DEVICE
John W. West, Woodside, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 28, 1941, Serial No. 400,221
18 Claims. (Cl. 250—27.5)

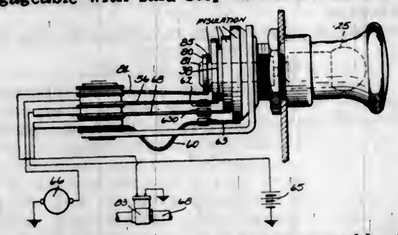


1. An electron discharge device comprising an enclosing vessel, a plurality of electrodes within said vessel including a cathode assembly, a pair of rigid conductors extending into said vessel and mounted in bisecting and insulating relation, and means connecting said cathode assembly directly to said conductors.

2,278,629
THERMOSTATIC SWITCH AND AUTOMOBILE HEATER CONTROL CIRCUITS
Robert K. Winning, Wauwatosa, Wis., assignor to Clum Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application October 24, 1938, Serial No. 236,615
2 Claims. (Cl. 200—138)

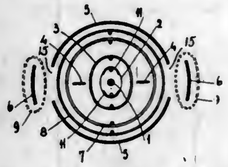
1. In a device of the character described, the

combination with a rotor provided with a cam having a peripheral surface of variable radius and provided adjacent said cam with a dielectric disk constituting a stop projecting beyond said radius, a bracket, a thermostat mounted on said bracket and having a free contact portion engageable with said stop to define an extreme



position, said thermostat being movable from said position upon an increase in temperature, and means for manually rotating the periphery of said cam in a direction to advance the radius of said cam toward said thermostat, and contact means engageable with the thermostat and from which the thermostat is disengageable upon its movement from said stop.

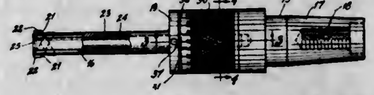
2,278,630
ELECTRON VALVE
Ernö Winter, Budapest, Hungary, assignor to Vereinigte Glühlampen und Elektrizitäts Aktiengesellschaft, Ujpest, Hungary
Application December 2, 1938, Serial No. 243,622
In Germany December 6, 1937
4 Claims. (Cl. 250—27.5)



1. An electronic mixing valve comprising in combination, a cathode, a first control means being a space-charge control and including a grid surrounding said cathode and adapted to receive the signal voltages to be amplified, a second control means comprising a positively charged member arranged in series with said first control means in the electron stream and adapted to receive the local oscillator voltages whereby to deflect the electrons without reversing their direction of flow, an anode comprising an aperture and a baffle arranged opposite said aperture surrounding said second control means but spaced from said positively charged member in radial direction with respect to said cathode, said grid including grid bars adapted to permit the entire electron current to pass said aperture.

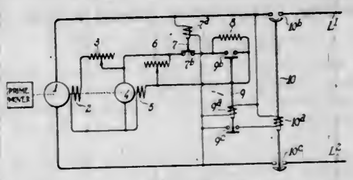
2,278,631
BORING TOOL
William Kyle Young, Detroit, Mich., assignor to Eclipse Counterbore Company, Detroit, Mich., a corporation of Michigan
Application March 22, 1939, Serial No. 263,471
10 Claims. (Cl. 77—58)

1. A boring tool comprising a body portion having an axial bore and transverse openings intercepting said bore at one side of the axis thereof near the inner and outer ends thereof, a cutter directly supported in the opening near the outer end of said bore for sliding movement transversely thereof, a rod axially slidable in said bore and having a portion that overlaps the adjacent face of said cutter and has a direct sliding oblique rib-and-groove connection therewith, a cross bar supported in the opening near the inner end of said bore for sliding movement lon-



gitudinally thereof, said cross bar having threaded end portions and a connection with said rod preventing relative movement therebetween longitudinally of said rod, and a sleeve mounted on said body for rotary but non-axial sliding movement relative thereto and having internal threads in engagement with the threaded ends of said cross bar.

2,278,632
GENERATOR CONTROL SYSTEM
Walter O. Baer, Milwaukee, and Edwin W. Seeger, Wauwatosa, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application December 14, 1939, Serial No. 309,210
7 Claims. (Cl. 171—119)

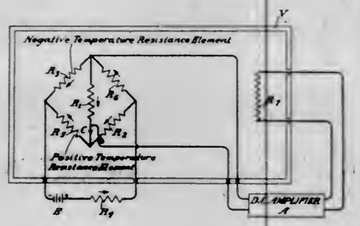


1. In a system for automatically connecting an alternator to a translating circuit, in combination, an alternator having an armature and a field winding, an exciter generator having an armature and a shunt field winding, means to connect said exciter armature in circuit with said alternator field winding, a field rheostat in circuit with said shunt field winding, a voltage regulator responsive to the voltage of said alternator armature and tending to control said rheostat so as to induce normal voltage in said alternator armature, a resistor connectable in parallel with said rheostat by said regulator and electromagnetic means responsive to said armature voltage and adapted to short circuit said resistor and to simultaneously connect said alternator armature to a translating circuit when said armature voltage attains substantially normal value.

2,278,633
TEMPERATURE CONTROL APPARATUS
Vernon Bernard Bagnall, West Orange, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York
Application August 15, 1940, Serial No. 352,724
5 Claims. (Cl. 219—20)

1. Temperature control apparatus for an enclosure comprising the combination of a Wheatstone bridge circuit, a heating element, means responsive to a drop in the temperature within said enclosure below a predetermined value to unbalance the bridge circuit and supply energy to the heating element at a rate proportional to the magnitude of the temperature drop, and means including a rectifier connected to but one diagonal of said bridge circuit to allow current

to flow through said diagonal in but one direction to prevent energy from being supplied to



said heating element to raise the temperature above the predetermined value.

2,278,634

RESINS COMPRISING THE ACRYLIC AND METHACRYLIC ACID ESTERS OF THE HYDROXYBIPHENYLS

Carl E. Barnes, Worcester, Mass., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 1, 1938, Serial No. 222,539

7 Claims. (Cl. 260—83)

5. A resin formed of a polymerized substance including a hydroxybiphenyl ester of an acid from the group consisting of acrylic and methacrylic acids.

2,278,635

RESIN COMPRISING COPOLYMERS OF DIVINYL KETONE AND DI-ISOPROPENYL KETONE

Carl E. Barnes, Worcester, Mass., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 15, 1938, Serial No. 240,530

1 Claim. (Cl. 260—86)

A transparent resin adapted for optical uses and comprising a copolymer of methyl methacrylate and 0.5% to 10.0% of a substance from the group consisting of divinyl ketone and di-isopropenyl ketone.

2,278,636

RESIN OF INTERPOLYMERIZED SUBSTANCES COMPRISING ACRYLIC OR METHACRYLIC ANHYDRIDE

Carl E. Barnes, Worcester, Mass., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 9, 1939, Serial No. 303,707

5 Claims. (Cl. 260—84)

4. A resin formed of copolymerized substances comprising not over 10% by weight of an anhydride of an acid selected from the group consisting of the acrylic and methacrylic acids copolymerized with the ethylidene glycol ester of one of said acids and with a compatible polymerizable unsaturated mono-methylene compound which constitutes the major portion of the mass and forms a homogenous resin.

2,278,637

RESIN OF INTERPOLYMERIZED SUBSTANCES COMPRISING ACRYLIC OR METHACRYLIC ANHYDRIDE

Carl E. Barnes, Worcester, Mass., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 9, 1939, Serial No. 303,708

4 Claims. (Cl. 260—84)

4. A resin formed of copolymerized substances comprising not over 10% by weight of an anhydride of an acid selected from the group consisting of acrylic and methacrylic acids, copolymerized with a substance from the group consisting of the esters of acrylic and methacrylic acids with allyl and methallyl alcohols, and with a compatible polymerizable unsaturated monomethylene compound which constitutes the major portion of the mass and forms a homogeneous resin.

2,278,638

FURYL VINYL KETONE AND HOMOLOGUES

Carl E. Barnes, Worcester, Mass., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Original application December 6, 1938, Serial No. 244,219. Divided and this application December 11, 1939, Serial No. 308,645

10 Claims. (Cl. 260—63)

3. A polymeric substance derived by the polymerization of a material containing a substance selected from the group consisting of furyl vinyl ketone and furyl isopropenyl ketone.

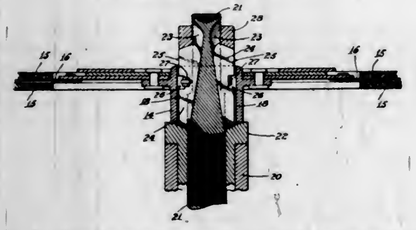
2,278,639

CLUTCH PLATE ADJUSTER

Charles W. Bauberger and Edward T. Liess, Malverne, N. Y.

Application September 22, 1939, Serial No. 296,044

2 Claims. (Cl. 279—2)



1. A device for centering and supporting a clutch disc having a hub portion with a number of grooves extending longitudinally in its bored surface consisting of a supporting socket, a bushing rotatable in said socket and having a laterally projecting flange supported on the socket, a screw threaded arbor adjustable in said bushing and having a number of longitudinally tapered grooves in its periphery gradually increasing in depth upwardly away from said bushing, the upper surface of said bushing being tapered downwardly toward said arbor, relatively thin keys mounted in said grooves having outer edges adapted to engage against the bottoms of the grooves of the clutch disc, elastic means for normally pressing said keys into the grooves of the arbor and a clamping nut adjustable on the upper end of the arbor, the lower surface of said nut having a tapered centering wall for engaging the upper ends of the keys and drawing them inwardly into the grooves in the arbor as the nut is adjusted against the keys, said flange extending outwardly beyond said keys to support the hub of the disc when the hub is mounted on the keys.

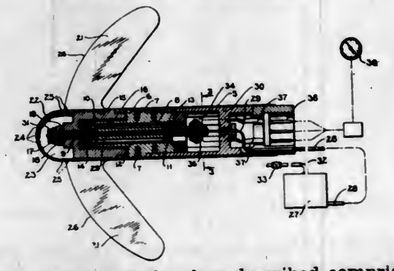
2,278,640

PROPELLER AND DEICING MEANS THEREFOR

Joseph Berge, East Orange, N. J., assignor to Jaeger Watch Company, Inc., New York, N. Y., a corporation of New York

Application April 26, 1940, Serial No. 331,782

6 Claims. (Cl. 244—134)



1. Apparatus of the class described comprising a stationary support, a propeller unit rotatably mounted on said support, said unit comprising a plurality of blades and a centrally disposed hub portion having a hemispherically-shaped nose, the latter being hollow to provide a fluid chamber and said blades being curved rearwardly throughout the entire length thereof, and means for supplying anti-freeze liquid through said hub portion to said chamber under pressure, said blades and nose portion having openings therein communicating with said chamber for emitting said liquid adjacent the forward point of said nose and adjacent the leading edges of said blades near the bases thereof.

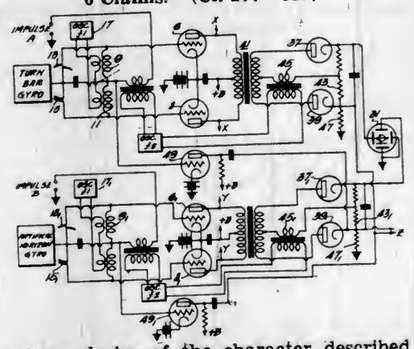
2,278,641

ELECTRONIC COMMUTATOR

Donald S. Bond, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application March 31, 1939, Serial No. 265,281

6 Claims. (Cl. 177—311)



1. In a device of the character described, a plurality of normally inoperative balanced modulators, means for causing said modulators to be made successively operative during discrete periods by a series of successively occurring control impulses, a source of alternating voltage, means for impressing said voltage in phase on the input circuits of each of said balanced modulators, means respectively associated with the input circuits of said modulators for causing degrees of unbalance in said modulators corresponding to changes in conditions to be observed which produce alternating output currents whose amplitudes and phases vary in accordance with said conditions to be indicated, common means for deriving direct voltages from the output currents of said modulators during said successive discrete periods, the amplitudes and polarities of said direct voltages being proportional to said degrees of unbalance, a cathode ray indicator having ray deflecting means, means for applying said direct voltages to said deflecting means, and means for applying different line drawing voltages to other deflecting means to produce successive reference lines during said discrete periods so that each condition is separately and successively indicated on said cathode ray by the position of said reference lines.

2,278,642

LIGHTING EQUIPMENT FOR CIGARETTES AND THE LIKE

Louis E. Boucher, Montpelier, Vt.

Application May 19, 1941, Serial No. 394,212

2 Claims. (Cl. 131—7)



1. Lighting equipment for a cigarette or the like comprising a strip of match striking material having one side face thereof coated with a match striking composition, means at one end of the strip for adhesively attaching the same to a cigarette, and a safety match of the same length as said strip extending along the other side face of the same and having the butt end thereof adhesively attached to the other end of the strip.

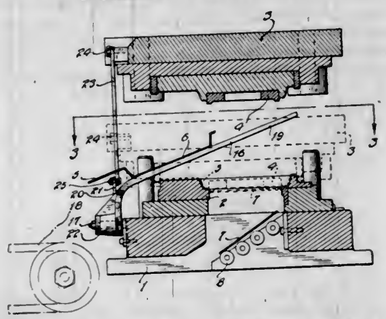
2,278,643

PRESS UNLOADER

Frederick W. Braun, Dearborn, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application January 22, 1940, Serial No. 314,976

5 Claims. (Cl. 113—50)



1. In a press having cooperating dies, a stationary lower die supporting member and a vertically reciprocating upper die supporting member, an unloader for removing the work from the press in the form of a swingable arm pivoted on one of the die supporting members, said arm extending at an acute angle to its axis of rota-

tion whereby as the arm swings from operative position between the dies to inoperative position without the dies the arm describes a portion of the surface of a cone, means carried by the upper die supporting member for lifting the work out of the lower die, elevating the work and then dropping the work on the arm when in operative position whereby the work slides down the arm and out of the press, and driving means for said arm synchronized with the upper die supporting member whereby upon upward movement of the supporting member the arm is swung between the dies and upon downward movement of the member the arm is swung from between the dies.

2,278,644

PROCESS FOR THE REGENERATION OF CATALYSTS CONTAINING THORIUM

Karl Büchner, Duisburg-Hamborn, Germany, assignor, by mesne assignments, to Hydrocarbon Synthesis Corporation, Linden, N. J.

No Drawing. Application June 26, 1939, Serial No. 281,152. In Germany July 1, 1938
6 Claims. (Cl. 23—23)

1. In the process of recovering thorium values of high catalytic activity, practically free from Fe, Ni, Co, Al_2O_3 and SiO_2, from the spent thorium catalysts containing substantial amounts of iron such as used in the production of hydrocarbons from CO and H_2, the steps of treating such catalysts at a moderately elevated temperature with a mineral acid to extract the catalytically active constituents, adding to the acid solution resulting in this treatment a soluble carbonate to produce a precipitate rich in thorium, dissolving said precipitate in sulfuric acid, precipitating the thorium from the sulfuric acid solution under the form of thorium potassium sulfate and converting this double sulfate into insoluble thorium hydrocarbonate.

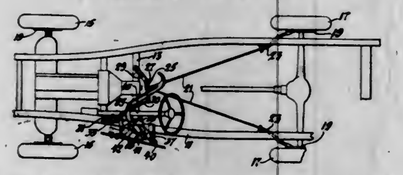
6. The process of claim 1, in which the thorium potassium double salt is treated, for conversion into the insoluble potassium hydrocarbonate, with carbonate in excess of the calculated quantity such that the thorium compound first precipitated is redissolved, whereupon the solution is heated for the precipitation of colloidal iron hydroxide and, after removal of same, an acid is added to precipitate thorium hydrocarbonate.

2,278,645

EMERGENCY BRAKE LEVER

Theron P. Chase, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application January 8, 1940, Serial No. 312,835
2 Claims. (Cl. 74—523)



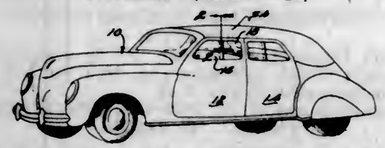
1. In a vehicle having a chassis with a steering column and a superposed body having a panel, a brake lever pivoted to one side of said vehicle and extending horizontally to locate its power end between the sides thereof, said lever being shaped to pass in front of said steering column and terminating in a hand grip rigid with the lever adjacent the vertical plane of the panel.

2,278,646

WEATHER-STRIP AND DRAIN TROUGH FOR CONVERTIBLE BODIES

Noble C. Clark, Ferndale, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware

Application April 22, 1938, Serial No. 203,550
3 Claims. (Cl. 296—44)



2. In an automotive vehicle, a vehicle body structure including an upwardly presenting channel shaped roof rail, a sealing strip extending over the outer flange of said rail across the under face of the web thereof and downwardly therefrom, the portion of the strip on the under face of the web portion being extended outwardly and upwardly forming a trough beyond the portion extending over the outer flange of the rail.

2,278,647

CONTINUOUS SOLVENT EXTRACTION APPARATUS

James F. Cyphers, Maplewood, N. J., and George Scheu and Wallace T. Jones, Brooklyn, N. Y., assignors to Rockwood & Co., Brooklyn, N. Y., a corporation of Delaware

Application March 10, 1938, Serial No. 195,040
1 Claim. (Cl. 260—412.4)

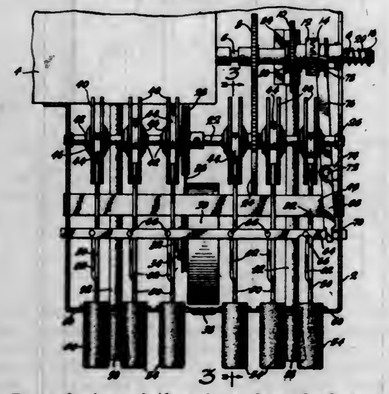
A closed system for extracting fatty material from solids with a volatile solvent and recovering and re-using said solvent comprising means for injecting steam into the system to vaporize solvent to be recovered, means for collecting and condensing the solvent vapors and steam, means for separating the liquids thus condensed, and means for treating the separated water including a container within the system having an inlet for the separated water in a lower portion thereof, means for heating and circulating the water in said container, and means for discharging from the system water overflowing from said container.

2,278,648

MECHANICAL DRIVE

William C. De Roo, Kokomo, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application April 14, 1938, Serial No. 202,027
12 Claims. (Cl. 74—10)



1. In a device of the class described, a shaft,

a plurality of pear-shaped cams frictionally mounted in spaced relation on the shaft, a radially movable lever adjacent each cam and being slotted to provide a complementary groove to the cam outline so that as the lever is moved in, the cam will be turned until it nests within the groove and then always comes to the same position regardless of its initial position to index the angular position of the shaft.

2,278,649

BALL

John B. Dickson, Northampton, and Raphael A. Stafford and Paul E. Blanchfield, Chicopee, Mass., assignors to A. G. Spalding & Bros. Inc., Chicopee, Mass., a corporation of Delaware

Application August 3, 1940, Serial No. 350,378
8 Claims. (Cl. 273—60)



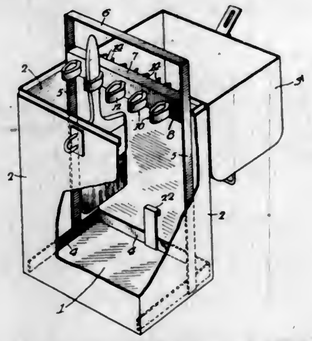
1. In a durable sluggish baseball the combination of a main core, a major portion of the mass of which is made from a mixture comprising at least 10% modifying material chosen from the class consisting of polyisobutylene, polyalkenesulfide, polyxylene, polyvinylchloride and similar synthetic rubber and resinlike materials, said main core being approximately 1½ to 2 inches in diameter, said main core having a rebound of less than 30 inches when dropped 100 inches; an outer cover approximately 9 to 9¼ inches in circumference; and at least one yarn winding between the center and the outer cover.

2,278,650

SUPPORT FOR BRUSHES AND LIKE ARTICLES

Charles M. Drinkwater, Chicago, Ill., assignor to Wabash Screen Door Company, Chicago, Ill., a corporation of Minnesota

Application June 29, 1938, Serial No. 216,615
3 Claims. (Cl. 211—60)



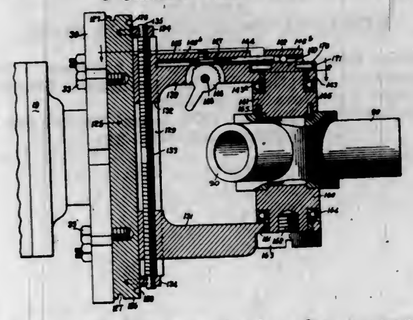
1. A support for brushes or other articles comprising a frame including a horizontal cross bracket structure including vertically disposed parallel front and rear webs formed with aligned front and rear openings, and a set of spring clips seated in said openings, said clips comprising a pair of pivotally-connected spring-tensioned gripping members each formed with opposed jaw portions and intermediate portions providing a pivotal connection and divergent handle portions, said handle portions extending rearwardly of said pivotal connection through said rear opening and said intermediate portions being severally formed with divergent outer faces extending forwardly of said pivotal connection through said front opening, said divergent faces of said intermediate portion tending to cam said clip forwardly when said handle portions are positively squeezed together and the outer faces of said handle portions tending to cam said clip rearwardly by tension of the spring.

2,278,651

PRECISE INDEXING CHUCK

Herman W. Eberhardt, Paterson, N. J.

Application May 29, 1940, Serial No. 337,874
9 Claims. (Cl. 279—5)



1. In a work holding chuck, a frame comprising a base having parallel arms extending therefrom in planar alignment, a work securing means mounted in one of the extending arms for free rotation therein, an indexing plate mounted in the other arm for free rotation therein and providing a work securing means for cooperation with the first mentioned work securing means, said first work securing means and said indexing plate providing a pivotal axis for a work piece positioned therebetween, accurately bored passageways extending radially from the axis of the indexing plate at predetermined angles and in planar arrangement, an accurately bored passageway in the indexing plate mounting arm in planar alignment with said radial passages and in longitudinal alignment therewith when successive radial passages are indexed adjacent thereto, a reciprocable plunger slidably engaging said mounting arm passageway, and means to reciprocate said plunger into engagement with said radial passages when indexed adjacent thereto to accurately position the indexing plate upon its rotational axis.

2,278,652

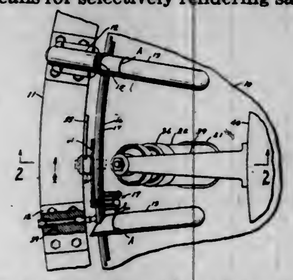
ARTICLE PRINTING DEVICE

John R. Gammeter, Akron, Ohio

Application April 27, 1940, Serial No. 332,007
14 Claims. (Cl. 101—40)

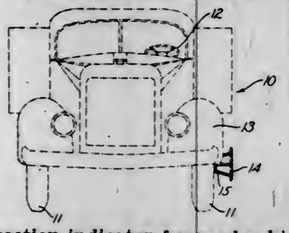
1. Apparatus for branding hollow rubber articles, comprising a stamp, yieldable means for supporting said stamp, a conveyor, a series of forms on said conveyor for containing hollow rubber articles, means for driving said conveyor to carry said forms in succession into yielding engagement with said stamp, means for revolving said forms as they pass over said stamp, means for manifesting forms in predetermined

condition, and means controlled by said manifesting means for selectively rendering said stamp



inoperative as forms in said predetermined condition pass over the same.

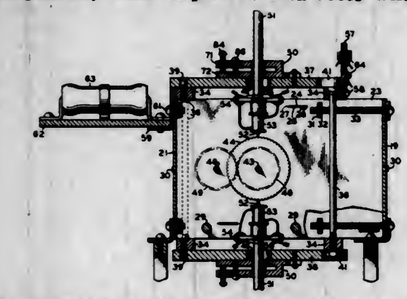
2,278,653
DIRECTION INDICATOR FOR ROAD VEHICLES
Hubert Hollmann, Findlay, Ohio, assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio, a corporation of Ohio
Application July 12, 1939, Serial No. 284,079
3 Claims. (Cl. 116—31)



1. A direction indicator for road vehicles having front wheel fenders, comprising an annular member, mounting means formed for connection to a front wheel of the vehicle so as to rotate therewith, and means connected to the annular member and to the mounting means for supporting the member so as to rotate with the wheel, and for disposing the member at points spaced outwardly of the vehicle fender and the front wheel that is adjacent to the driver's seat, and at such distance from said wheel so as to be visible to the driver, and also in a vertical plane parallel to the plane in which the wheel rotates, said member being of narrow width to present a constant indicating line to the vision of the driver irrespective of the speed of travel of the vehicle, and being disposed so that the line of vision of the operator lies in the vertical plane of the annular member with respect to a predetermined line of travel of the wheel upon which the indicating number is supported.

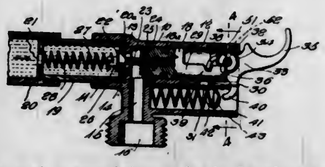
2,278,654
INDUCTOR ALTERNATOR
Edward C. Homer and William D. Buckingham, Southampton, N. Y., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application December 9, 1938, Serial No. 244,744
2 Claims. (Cl. 171—252)

1. In an inductor alternator, a toothed rotor, two pickup coils each having a pole piece associated therewith, means for mounting said coils substantially diametrically with respect to said rotor, means for connecting said coils together to supply a constant potential circuit, and means to adjust one of said pole pieces radially and peripherally with respect to said rotor whereby



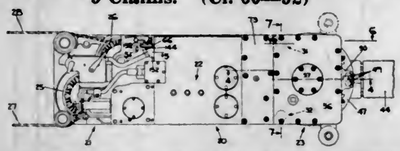
the potentials generated in said coils are of like phase and of complementary magnitudes for all angular positions of said rotor.

2,278,655
AUTOMATIC FAUCET
John W. James, Macon, Ga.
Application May 4, 1940, Serial No. 333,407
8 Claims. (Cl. 249—58)



1. A faucet comprising a body having an inlet passage, a bore in line with said passage, a wall between the passage and bore, said wall having an opening therethrough whereby to afford communication between the passage and bore, a piston reciprocably mounted in the bore, valves disposed at opposite sides of the wall, said valves being connected to the piston and being adapted alternately to close said opening, a depressible supporting member engaging and adapted when depressed to move the piston towards the inlet passage, spring operated means carried by the body for retarding depression of the supporting member at times and for raising it at times, and a discharge passage leading from the bore.

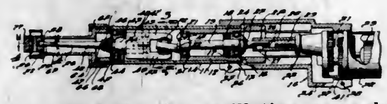
2,278,656
MINING MACHINE
Robert K. Jeffrey, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application June 21, 1938, Serial No. 214,959
5 Claims. (Cl. 60—52)



1. Apparatus of the class described comprising the combination with a pair of fluid-pressure motors for effecting adjustments in the apparatus, of a power-driven pump, controlling means connecting the pump to said motors and comprising a control valve having five positions including a neutral position, a motor actuating position for each motor and a motor discharging

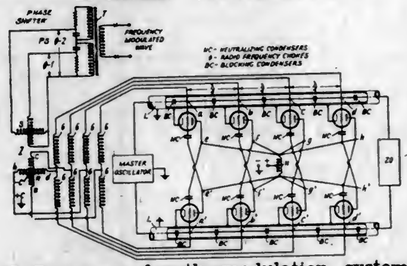
position for each motor, means for actuating said control valve from its neutral position to either of the motor actuating positions before reaching the motor discharge positions, and automatic means operable upon release of said actuating means to effect movement of the valve to neutral position while both motors are locked in adjusted positions and the pump is provided with a no-load by-pass.

2,278,657
TOOL VIBRATING MEANS
John E. Kline, Grosse Pointe Farms, and Douglas T. Peden, Ann Arbor, Mich., assignors to Micromatic Hone Corporation, Detroit, Mich., a corporation of Michigan
Application May 24, 1939, Serial No. 275,519
7 Claims. (Cl. 51—59)



1. A unit device for oscillating a machining element embodying a casing, a shaft rotatably journaled in the casing, an eccentric end on said shaft, a wobble arm in extension of said end oscillated thereby, a slide mounted in said casing for reciprocation by said wobble arm, and means for supporting said machining element on said slide.

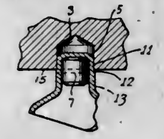
2,278,658
FREQUENCY MODULATION
Fred H. Kroger, Patchogue, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application December 6, 1939, Serial No. 307,726
18 Claims. (Cl. 179—171.5)



15. In a wavelength modulation system in combination, a source of wave energy to be modulated, a source of wave energy modulated in frequency by modulating potentials, an electrical circuit coupled to one of said sources whereby wave energy is fed from said one of said sources to said circuit and wave energy set up therein, a plurality of impedances connected to electrically spaced points on said circuit, and means for varying said impedances in accordances with phase differentiated voltages characteristic of wave energy from the other of said sources.

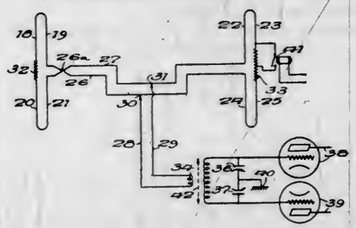
2,278,659
RAIL BOND
Frederick C. Lavarack, Montclair, N. J., and Edward M. Deems, Forest Hills, N. Y., assignors to Railroad Accessories Corporation, New York, N. Y., a corporation of New York
Application November 28, 1939, Serial No. 306,436
5 Claims. (Cl. 287—20.3)

1. A rail bond, having in combination: a rail formed with a predetermined size orifice; a conductor; thimbles, one attached to each end of the conductor, each thimble having a portion of such outside diameter as to enable it to partially enter the orifice formed in a rail, and having a further portion of such outside diameter that further movement into the orifice shears mate-



rial from the outside surface of the thimble whereby a fresh surface is presented for contact with the inside surface of the orifice in a rail and a deformable pellet positioned in the thimble of such dimensions that when driven fully the outer surface is inwardly of the line of juncture of the thimble and edge of the orifice in the rail.

2,278,660
RADIOGONIOMETER
Gerard Lehmann, Paris, France
Application August 28, 1939, Serial No. 292,316
In France September 3, 1938
4 Claims. (Cl. 250—11)

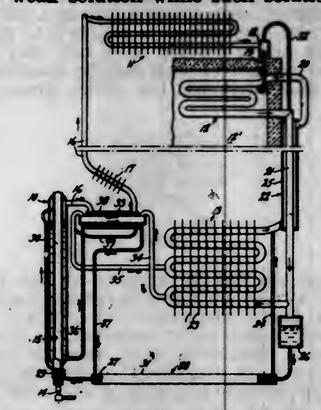


3. A radiogoniometer, comprising; a pair of antenna elements responsive to a wide band of frequencies and each comprising a di-pole and a wire doubled back over a considerable length of said di-pole, said doubled back wire being close to the corresponding di-pole compared to the shortest wavelength employed, connecting wires for connecting the centers of said di-poles in phase opposition to form a bi-directional antenna system, feeder conductors connected substantially to the centers of said connecting wires, a transformer connected to said feeder conductors, impedance means connected into at least one of said wires doubled back over its corresponding di-pole, and means for changing the effective value of said impedance means to change the directional characteristics of said antenna system.

2,278,661
REFRIGERATION
Alvar Lenning and Per Paul Strandberg, Stockholm, Sweden, assignors, by mesne assignments, to Servel, Inc., New York, N. Y., a corporation of Delaware
Application May 11, 1938, Serial No. 207,256
In Germany May 19, 1937
7 Claims. (Cl. 62—119.5)

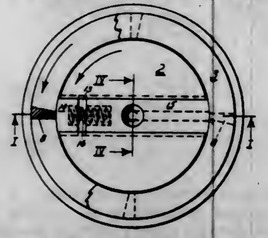
3. In a refrigeration system of an absorption type using inert gas and in which refrigerant fluid is distilled from solution in liquid solvent, means for conducting weak solution in thermal exchange relation with distillation vapors,

and means for circulating inert gas in the presence of weak solution while such solution is in



thermal exchange relation with distillation vapors.

2,278,662
DEVICE FOR CUTTING FILAMENTARY MATERIAL
Alvin Lodge, Meadville, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application August 22, 1941, Serial No. 407,855
9 Claims. (Cl. 164—61)



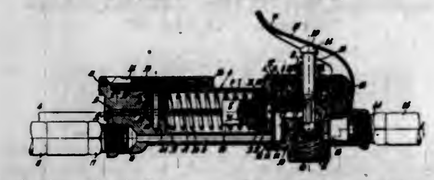
9. An apparatus of the character described comprising cutting means, means for driving said cutting means in an annular path, and centrifugal means for feeding a filamentary bundle outwardly therefrom into the path of said cutting means, said centrifugal means and the cutting means being arranged concentrically.

2,278,663
CLUTCH THROWOUT BEARING
Bruno Loeffler, West New York, and George B. Martin, Plainfield, N. J., assignors to Mack Manufacturing Corporation, Long Island City, N. Y., a corporation of Delaware
Application March 29, 1939, Serial No. 264,702
9 Claims. (Cl. 192—110)



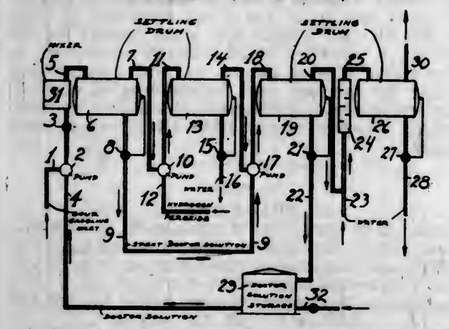
3. Bearing lubricating means comprising a shaft, a slidable throw-out sleeve mounted on the shaft, a bearing carried by the sleeve, means in the sleeve forming a reservoir adjacent the bearing, inlet means to admit lubricant to a lower portion of the reservoir, means in the sleeve for preventing a flow of lubricant from the upper portion of the reservoir to the bearing and shaft, and outlet means adjacent but separated from the inlet means forming a lubricant passageway between the lower portion of the reservoir and the bearing.

2,278,664
AIR INFLATER MECHANISM
Malcolm E. Mitchell, Oakland, Calif., assignor of one-half to Manfred M. Weinberg, Oakland, Calif.
Application March 8, 1939, Serial No. 260,561
4 Claims. (Cl. 137—69.5)



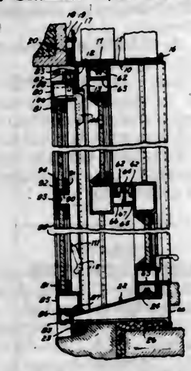
1. An air inflater mechanism comprising, a casing provided with a cylinder therein opening to one end of said casing, pressure responsive means mounted in said cylinder, a gauge member connected to and displaced by said means, a second casing having one end thereof secured to said first casing end, a plate interposed and clamped between said casing ends and provided with an air opening registering with said cylinder, said second casing being provided with inlet and discharge passages connected to a source of air under pressure and to a tire or the like to be inflated and being provided with a passage communicating said discharge passage with said plate opening, valve means normally positioned to close said inlet passage and to communicate said discharge passage with said third named passage communicating said opening and being manually displaceable to establish communication between said inlet and discharge passages, and means connected to said valve means and movable upon displacement of the latter to engage said plate at said plate opening to close said plate opening.

2,278,665
REFINING PETROLEUM OILS
Henry C. Paulsen, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application September 14, 1939, Serial No. 294,800
5 Claims. (Cl. 196—29)



1. Process for converting mercaptan compounds contained in the petroleum oil to disulfide compounds, comprising contacting said petroleum oil in an initial stage with a sodium plumbite solution under conditions to convert the mercaptan compounds to corresponding soluble lead mercaptides, separating the spent sodium plumbite solution from the treated oil containing the soluble lead mercaptides, passing the treated oil fraction into a secondary stage and contacting the same in said secondary stage with hydrogen peroxide under conditions to convert the lead mercaptides to lead oxide and disulfide compounds, whereby a water layer is formed in said secondary stage, separating the water from the treated oil, passing the treated oil containing soluble lead disulfides and the lead oxide to a tertiary stage and contacting the treated oil in said tertiary stage with the spent alkali metal plumbite solution removed from said initial stage whereby the lead oxide is completely removed from said treated oil.

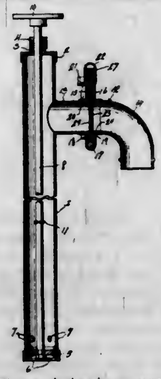
2,278,666
WINDOW CONSTRUCTION
Edmund Peremi, Manhasset, and Louis Toth, Flushing, N. Y.
Application December 5, 1938, Serial No. 243,931
7 Claims. (Cl. 189—64)



1. A storm window comprising top, side and bottom rails of hollow metallic construction, said top rail having on the inner edge of its upper surface a narrow upwardly extending flange, a wide flange near the outer edge thereof, and an intermediate rib, said wide flange ending in an overhanging portion, said wide flange having an intermediate inwardly extending flange, forming with said overhanging portion a recess for packing, said intermediate flange terminating in a slightly downturned lip, an inwardly extending rib between said inwardly extending flange and the upper surface of said rail, and a V-shaped resilient metal weather strip member held on said rail, one leg of the V being held by said intermediate rib and said inwardly extending rib, the vertex of said V engaging beneath said lip, and the other leg of the V being a resilient tongue held against unlimited outward movement by said narrow upwardly extending flange of the upper surface of said rail.

2,278,667
MILK SEDIMENT TESTER
Carl G. Petersen, Bismarck, N. Dak.
Application June 13, 1939, Serial No. 278,980
2 Claims. (Cl. 73—51)

1. The combination with a pump including a cylinder having an inlet adjacent one end and an outlet adjacent its other end, of a nozzle coupled with said outlet and divided transversely into an inner portion and an outer portion, a plate integral with and extending across the adjacent ends of said portions, the plates having apertures alined with the adjacent portions, hinge means coupling two adjacent edges of the plates together whereby the outer portion of the nozzle and the plate attached thereto may be shifted relative to the inner portion of the nozzle and the plate attached thereto to bring the plates into side by side relation and the nozzle portions into alinement, said plates being designed to have a sediment disk disposed therebetween, a clamping ring carried by each plate concentric with the aperture thereof and upon the face opposing the other plate, the sediment disk being secured between said rings, a locking means for securing said plates together in sediment disk clamping relation, one of said plates having angularly turned flanges along each of two opposite edges between which the other plate is received and said clamping means extending over and covering the edges of the plates opposite the pivotally connected edges whereby the pivotal connection between the edges, the flanges and the clamping means function to provide a casing within which the sediment disk is enclosed.

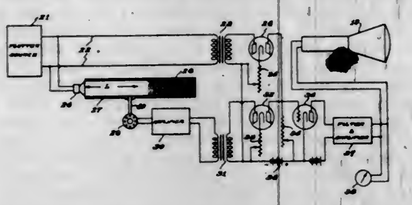


2. A milk sediment tester, compressing a cylinder, a solid plunger slidable in said cylinder, a rod connected with the plunger for effecting its reciprocation in the cylinder, said cylinder having fluid inlets spaced apart longitudinally thereof and adjacent an end thereof between which the plunger is adapted to position, a discharge nozzle adjacent the other end of the cylinder, said nozzle being formed to receive and support a sediment disk transversely thereof, and means carried by the rod for limiting movement of the plunger from between the apertures toward the nozzle to effect the discharge from the nozzle of a prescribed quantity of milk.

2,278,668
DEMODULATION OF FREQUENCY MODULATED OSCILLATIONS
Raymond G. Piety, Bartlesville, Okla., assignor to Radio Corporation of America, a corporation of Delaware
Application January 12, 1939, Serial No. 250,504
3 Claims. (Cl. 172—245)

1. In an apparatus for producing a potential proportional to the frequency of an applied impulse, the combination of an electron discharge device provided with an output circuit and with a negatively biased input circuit including an

impedance device, and impulse detecting means including a pair of rectifier elements each provided with an output circuit including an anode



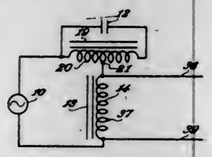
electrode connected in parallel to said impedance and an additional electrode provided with an input circuit and with an impedance device common to its input and output circuits.

2,278,669

FREQUENCY CHANGING DEVICE

George H. Pohm, Olmsted Falls, Ohio, assignor of one-half to E. M. Heavens and one-half to Closman P. Stocker

Application December 11, 1939, Serial No. 308,671
10 Claims. (Cl. 172—281)



6. A frequency changing circuit adapted to operate from an alternating current source utilizing three reactive elements to form two anti-resonant circuits for generating a new frequency and separating the new frequency from the frequency of the alternating current source comprising, in combination, a linear inductance, a non-linear inductance, and a capacitor, said non-linear inductance and capacitor forming a first circuit anti-resonant to the frequency of the alternating current source and generating a new frequency, said linear inductance and capacitor forming a second circuit anti-resonant to the new frequency, said first circuit and the linear inductance being connected in circuit relation with each other and the alternating current source to cause substantially all the voltage of the new frequency to appear across the linear inductance, and output means to supply the new frequency from the linear inductance, said capacitor and one of said inductances being connected in closed circuit with the supply source and the other said inductance being in a closed electrical circuit including the capacitor.

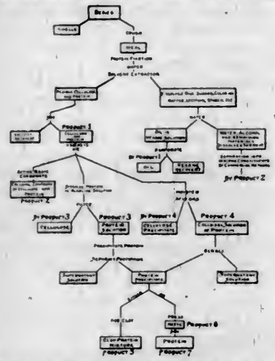
2,278,670

PROCESS OF PREPARING PROTEIN MATERIAL

Philip Rauer, New York, N. Y.

Application April 6, 1937, Serial No. 135,231
3 Claims. (Cl. 260—112)

1. In a process of preparing a protein concentrate from soya beans, the steps which comprise comminuting the soya beans and subsequently subjecting the same to the action of a mixture of a major proportion of hexane and minor proportions of methyl alcohol and water, for extracting the oils, gums and carbohydrates, and other non-protein substances contained therein, and separating the protein-cellulose residue from the extraction liquor.



2,278,671

METHOD OF ASPHALT MANUFACTURE

Joseph C. Roediger, Brooklyn, N. Y., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application October 10, 1939, Serial No. 298,799
7 Claims. (Cl. 106—273)

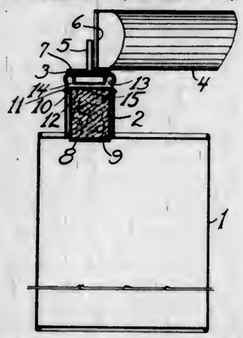
1. A process of producing a bituminous bonding agent which comprises blending a high softening point cracking coil tar with a relatively low viscosity cracking coil tar produced from gas oil and low viscosity tars produced from the cracking of crude petroleum oil.

2,278,672

LIQUID SPRAYER

William H. Rose, Jersey City, N. J., assignor to Stanco Incorporated

Application November 14, 1939, Serial No. 304,297
7 Claims. (Cl. 299—88)



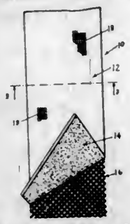
1. In combination with an air spray pump, including a pump barrel having an outlet for pressure air, a container for liquid, a tubular member between said container and the pump barrel, including means for uniting said pump and container through said member, a chamber within said member, in substantially unrestricted communication with the container at one end, and opening outwardly at the other end by way of a restricted passageway including a syphon tube terminating at a point immediately adjacent said pump outlet for pressure air, an absorbent packing disposed in the chamber adjacent the passageway, and normally out of contact with liquid in said container, and means for retaining said packing in the chamber without substantially restricting communication between said chamber and the container.

2,278,673

ADHESIVE COATED SHEET MATERIAL

Martin Savada and William Horowitz, New York, N. Y.

Application March 13, 1940. Serial No. 323,700
1 Claim. (Cl. 154—43)



A length of sheet material comprising a face strip or web of fibrous material having a surface thereof coated with a pressure-sensitive adhesive, and a backing strip or web of woven sheet material removably attached to said face strip on said pressure-sensitive coated surface thereof in direct surface to surface contact therewith, said backing strip strip or web having cut side edges and comprising a layer of bias cut open mesh woven fabric all of the threads of which are arranged obliquely to the longitudinal extent of said strip of face fabric, said backing and face strips being substantially coextensive in length and width.

2,278,674

PROCESSING OF TALL OIL

Ernest Segessemann, Newark, N. J., assignor to National Oil Products Company, Harrison, N. J., a corporation of New Jersey

No Drawing. Application November 9, 1939, Serial No. 303,535
15 Claims. (Cl. 260—97.5)

1. In a process of treating tall oil to separate the fatty acid components from the resinic acid components, the steps which comprise esterifying the fatty and resinic acids with a relatively high boiling alcohol, subsequently trans-esterifying the fatty acid esters only with an alcohol having a lower boiling point than the first alcohol, and distilling off the fatty acid esters thus formed.

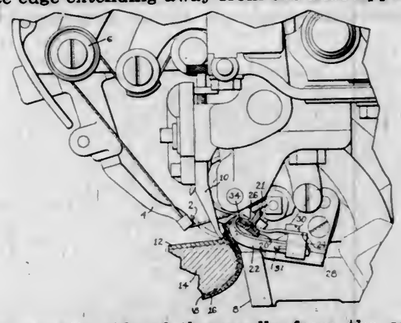
2,278,675

SHOE SEWING MACHINE

Le Forest L. Shaw, North Abington, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey

Application July 20, 1939, Serial No. 285,506
7 Claims. (Cl. 112—52)

1. A shoe inseam sewing machine having, in combination, a work piercing needle arranged to penetrate and emerge from the insole and overlasted marginal portions of a shoe upper, a channel guide and a welt guide arranged to lead one edge of a welt strip against the marginal portion of the upper into line with the inseam, and formed with an opening at the side of the guide away from the upper to direct the free edge of the welt strip in angular relation to another edge which is led against the shoe upper, said free edge extending away from the shoe upper at



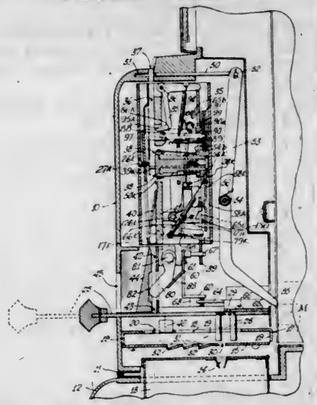
the opposite side of the needle from the overlasted main body portions of the upper.

2,278,676

COIN CONTROL

Joseph W. Srodulski, Chicago, Ill.

Application November 30, 1938, Serial No. 243,236
6 Claims. (Cl. 194—97)



3. In combination, coin testing means of a type including operating means and mechanism actuated thereby to test and release a coin for gravitating movement into a predetermined position, mechanism operatively connected to said operating means and arranged to engage a coin at said position and prevent effective actuation of said operating means whereby to prevent release of additional coins for movement toward said predetermined position until the first-mentioned coin is removed from said position, and coacting movable actuating members arranged to be coupled for joint movement by a coin element received into operative coupling engagement therewith from said particular position, said coacting members being arranged to receive a coupling coin from said position, and one of said coacting members being operatively associated with said mechanism to effect actuation of the said operating means.

2,278,677

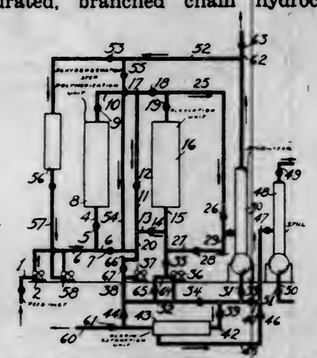
CATALYTIC REACTION OF OLEFINS

Eldon E. Stahly and Erwin M. Hattox, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

Application December 2, 1938. Serial No. 243,519
13 Claims. (Cl. 196—10)

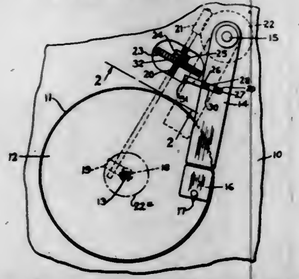
1. A process for the production of normally

liquid acyclic hydrocarbons boiling in the gasoline range and containing substantial amounts of saturated, branched chain hydrocarbons,



which comprises contacting a mixture comprising essentially isoparaffins and mono-olefins with at least one binary compound of uranium under alkylation reaction conditions.

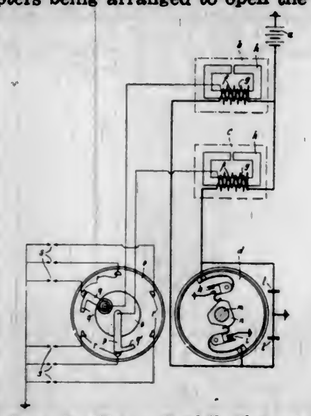
2,278,678
PHONOGRAPHIC WARNING SIGNAL
Robert L. Stone, Hamden, Conn., assignor to The Soundscriber Corporation, New Haven, Conn., a corporation of Connecticut
Application April 10, 1941, Serial No. 387,895
10 Claims. (Cl. 274—9)



1. In a phonograph recorder, a rotating turntable carrying a disc record, means to rotate said turntable, a stylus-carrying arm mounted on a vertical pivot to swing slowly across said record and record sound vibrations thereon, feed means driven by said turntable, rotating means to swing said arm, said feed means including a rotating gear, and a depending resilient leaf spring carried by said arm and movable into contact with said gear as the arm swings inwardly to indicate by a clicking sound when the recording is completed.

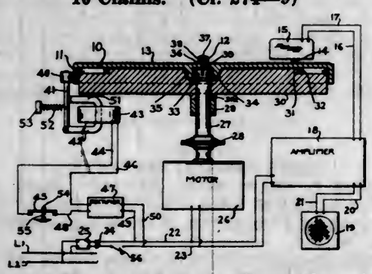
2,278,679
BATTERY IGNITION SYSTEM FOR INTERNAL COMBUSTION ENGINES
Karl Straub, Stuttgart, Germany, assignor to Robert Bosch Gesellschaft mit beschrankter Haftung, Stuttgart, Germany
Application January 18, 1940, Serial No. 314,515
In Germany January 12, 1939
3 Claims. (Cl. 123—148)

1. A battery ignition system for low pressure heavy oil internal combustion engines of the injection type, comprising, in combination, an engine operated cam, at least two interrupters operated alternately by said cam, at least two ignition coils each having a high secondary inductance and having their primary coils connected respectively with said interrupters whereby said coils operate alternately to produce successive ignitions in the engine and each coil producing the spark for only a part of the cylinders of said engine, a distributor having a plurality of segments connected to spark plugs and having a rotor carrying a plurality of electrically insulated distributor fingers connected respectively with the secondary coils of said ignition coils, said cam and interrupters being arranged to open the primary



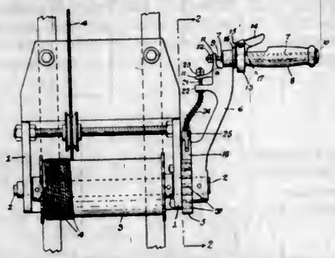
circuit of one ignition coil while the primary circuit of the other coil is maintained closed for a period of time exceeding the interval between two successive ignitions in the engine whereby a spark impulse of considerable extension is produced when said last-mentioned primary circuit is broken and said segments and distributor fingers being so arranged and having cooperating opposed surfaces of substantial extent whereby said distributor fingers operate alternately to distribute said extended sparking impulses.

2,278,680
QUICK START AND STOP DRIVE MECHANISM FOR PHONOGRAPH TURNTABLES
Lincoln Thompson, Cheshire, Conn., assignor to to The Soundscriber Corporation, New Haven, Conn., a corporation of Connecticut
Application April 10, 1941, Serial No. 387,893
10 Claims. (Cl. 274—9)



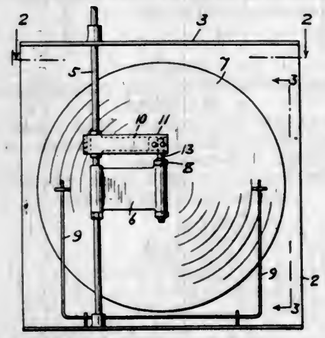
1. In a phonograph, a continuously rotating driving plate of high inertia, a low inertia turntable for supporting a disc record having a short flange covering said plate, a solenoid-operated brake rod carrying a brake shoe positioned adjacent said flange to engage it and stop the rotation of said turntable, a friction ring of relatively large diameter mounted on said plate for engaging the undersurface of said turntable, said ring acting as a slip-friction clutch between said plate and said turntable.

2,278,681
SAFETY WINCH
Frank M. Thul, Davenport, Iowa
Application May 15, 1941, Serial No. 393,500
4 Claims. (Cl. 254—186)



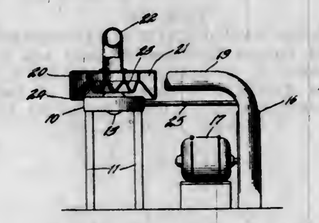
1. A winch including a shaft, a support in which it is rotatably mounted, a ratchet rigidly mounted on the support encircling the shaft, a crank arm rigidly mounted on the shaft, a dog pivoted on the crank arm adapted to engage the ratchet, a bell crank lever on the crank arm, a connection between the bell crank lever and the dog and means associated with the dog for yieldingly thrusting it into engagement with the ratchet, a handle slidably and rotatably mounted on the crank arm, a finger lever mounted on the handle for rotation therewith, a connection between the handle and the free end of the bell crank lever, an abutment on the crank arm, a cam on the finger lever adapted when the lever is rotated toward the handle to engage the abutment to laterally displace the handle to rotate the bell crank and release the dog.

2,278,682
COMPENSATED METER
Walter C. Wagner, Ardmore, Pa.
Application August 22, 1939, Serial No. 291,301
4 Claims. (Cl. 73—268)



1. In a gas meter the combination of bellows which expand and contract as the gas to be measured passes both through and around them, means for guiding the movement of the bellows in a substantially fixed path, rotary registration mechanism constructed and arranged to register the cycles of bellows movement, a flag rod having means adapted to actuate the registration mechanism and provided with a radially disposed arm immovably fixed thereto which when oscillated through a definite angle and in a circular path actuates the registration mechanism, connections interposed between the bellows and the flag rod arm and constructed and arranged to afford the bellows a range of the fixed path travel in excess of that required to turn the arm through the angle of definite value, means in direct contact with the gas being measured and responsive to the physical condition of the gas passing through and around the bellows and operative to limit the excess travel of the bellows and interposed between the bellows and the oscillating arm, and a pin and slot mechanism interposed in said connections and between the bellows and the arm and constructed and arranged to afford freedom of substantial fixed path movement of the bellows and freedom of oscillating movement in a circular path of the arm at all adjustments of the travel of the bellows.

2,278,683
HEATING DEVICE
Thomas C. Zolik, Chicago, Ill.
Application November 27, 1940, Serial No. 367,345
3 Claims. (Cl. 126—110)



1. In combination, a fuel burner, an air heating chamber arranged above said burner, said chamber having an intake and a heated air outlet, means for supplying air to said air intake, a spiral partition arranged in the chamber, a spiral upstanding ridge arranged on the bottom of the chamber, said spiral partition extending from the top of the chamber to the top of the spiral ridge to form a circuitous passage for the air passing through the chamber before the heated air is discharged through the outlet.

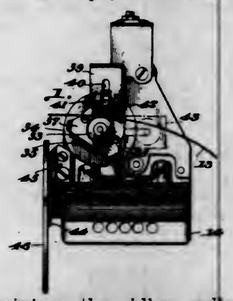
2,278,684
BITUMINOUS EMULSION
Willard C. Asbury and Frederic Horace Garner, London, England, assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application March 29, 1940, Serial No. 326,664
6 Claims. (Cl. 106—277)

1. An aqueous emulsion of bitumen of the oil-in-water type containing an alkali metal salt the anion of which contains a metal selected from the group consisting of aluminium, tin, boron, chromium, molybdenum, vanadium and zinc, in conjunction with aliphatic amines possessing at least one aliphatic substituent of at least 11 carbon atoms.

2,278,685
DRAWING AND OBSERVING DEVICE
Henry H. Barnard, Washington, D. C.
Application November 30, 1940, Serial No. 368,096
17 Claims. (Cl. 271—2.3)

1. A device for drawing and tensioning a tape and the like comprising a drive roller adapted to be rotated at a constant speed, a freely-mounted idler roller cooperating with the drive roller with the tape running therebetween, means for mounting the idler roller so that it may be adjusted circumferentially around the rotary

axis of the drive roller to vary the force of the idler roller on the tape, and means for friction-



ally maintaining the idler roller mounting means in adjusted position.

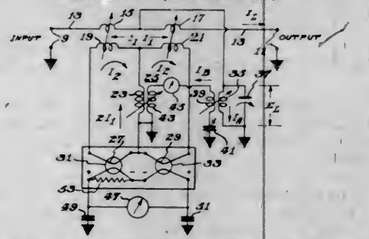
2,278,686

RADIO FREQUENCY WATTMETER

George H. Brown, Haddonfield, and Jess Epstein, Westmont, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application January 2, 1940, Serial No. 312,058

6 Claims. (Cl. 171—95)



1. A radio frequency wattmeter comprising a pair of inductors, means for serially connecting said inductors in a power transmission line, said inductors being the sole impedance inserted in said line, a pair of pickup coils coupled to said inductors, respectively, a pair of current-responsive devices, connections from said devices to said pickup coils, one of said connections being common, coupling means connected in said common connection, a resonant link circuit coupled to said coupling means, and means coupling said link circuit to said transmission line.

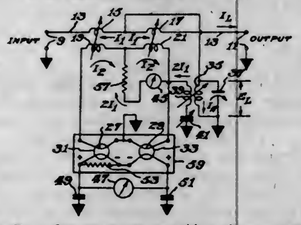
2,278,687

RADIO FREQUENCY WATTMETER

George H. Brown, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application April 2, 1940, Serial No. 327,400

8 Claims. (Cl. 171—95)



1. A radio frequency wattmeter comprising coupling means for connection in series with a power circuit energizing a load, a pair of pick-up coils coupled to said coupling means, a pair of current responsive devices connected in series with said pick-up coils, a tuned circuit connected in parallel with said power circuit, an inductor coupled to said resonant circuit, means effectively connecting said inductor between a point intermediate said pick-up coils and ground, and means for tuning said inductor and said pick-up coils to resonance at the operating frequency.

2,278,688

ACCUMULATOR

Harold Caminez, Hackensack, N. J., assignor to Air Associates Incorporated, Bendix, N. J., a corporation of New York

Application July 9, 1941, Serial No. 401,622

6 Claims. (Cl. 138—30)



1. An accumulator for a hydraulic system comprising a substantially cylindrical container having reduced ends, each with an aperture, a flexible bag of elastic material coaxially arranged within said container and including a neck and a bottom, a tubular perforated spacer within said bag, means to secure one end of said spacer and the neck of said bag to one of the apertured ends of said container, means in communication with the interior of said spacer and accessible from the outside for admitting compressed air, means to secure the bottom of said bag to the other end of said spacer in position near the other container end, and a shield-like member in connection with the last-mentioned means for preventing expansion of the central bottom portion of said bag in axial direction owing to the internal pressure of said bag.

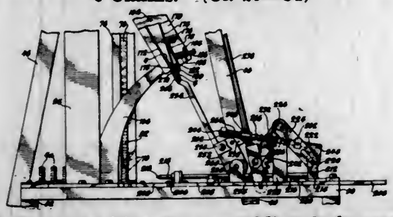
2,278,689

LOCK WASHER TO BOLT ASSEMBLY MACHINE

William D. Chilton, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application May 1, 1939, Serial No. 271,119

6 Claims. (Cl. 29—84)



1. In a machine for assembling lock washers on bolts, a table, a bar reciprocably mounted on the table, a rod slidably mounted on the table and secured to the bar and reciprocable therewith, an arm pivoted to the table adjacent the bar, a connection between the bar and arm to cause the arm to be moved simultaneously with the reciprocation of the bar, said arm having its end shaped to receive and hold a washer, means, at one location of said arm, to feed washers, one at a time, to said end, said arm adapted to swing from said location to a bolt located on said table for depositing the washer on a bolt, means for feeding bolts to said last named location, said rod being movable between the bolts and restraining the bolts from crowding toward the washer receiving location while the arm is depositing a washer on a bolt, said bar being in alignment with an assembled bolt and washer, the connection between said arm and said bar being yieldable to cause a certain amount of lost motion to enable the bar to be further reciprocated after said arm has deposited a washer thereby to push the bolt and its washer away from the washer receiving location to allow the presenting of a new bolt to receive a washer. and means for reciprocating said bar.

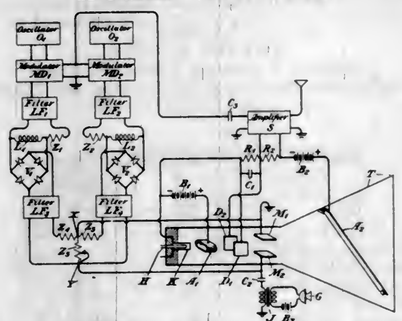
2,278,690

FREQUENCY CONTROL SYSTEM

John L. Clarke, Lachine, Quebec, Canada, assignor to American Telephone and Telegraph Company, a corporation of New York

Application February 21, 1941, Serial No. 379,919

11 Claims. (Cl. 179—171.5)



1. The combination of an electron beam oscillator having a pair of spaced electrodes parallel to each other upon which variable voltages may be impressed to correspondingly change the path of the electron beam and the frequency of oscillations sustained by said oscillator, the planes of said electrodes being substantially parallel to the direction of travel of the electron beam, and means responsive to fluctuations in the mean frequency of said oscillator for producing a biasing voltage for application to said spaced electrodes to maintain the mean frequency of said oscillator substantially constant.

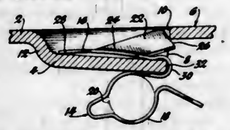
2,278,691

FASTENING DEVICE

Bart Cotter, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application March 15, 1939, Serial No. 261,914

6 Claims. (Cl. 24—73)



1. In combination with the metal floor of an automotive vehicle, a plurality of depressions formed in the floor by pressing the metal away from the floor, the metal at one side of said depression being shorn away from the floor to leave an opening at one side, a fastening device adapted to be secured in the depressed part and projecting away from the floor on the underside thereof, said device having a part entering the opening and being secured in the depression, but lying below the plane of the upper surface of the floor, said part entering the opening being wider than the opening, a finger on said part, said finger being sprung into the depression and past the edge of the opening, the edge of the finger engaging the edge of the opening when the fastening device is in place.

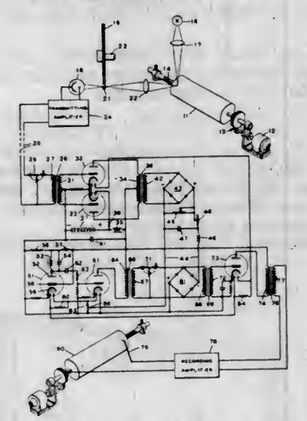
2,278,692

FACSIMILE SIGNAL INVERTER

Keith B. Eller, Metuchen, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York

Application February 16, 1940, Serial No. 319,251

12 Claims. (Cl. 178—6.6)



1. In a facsimile telegraph system employing amplitude modulated carrier current signals, means for demodulating said signals, a source of oscillations, an amplifier, means for impressing said oscillations upon the input circuit of said amplifier, a rectifier having its alternating current terminals connected to said input circuit, means for connecting said demodulated signals to the direct current terminals of said rectifier, and a utilization circuit connected to the output circuit of said amplifier.

2,278,693

HAIR CURLER

William Finkelstein, Bronx, N. Y.

Application January 24, 1941, Serial No. 375,749

5 Claims. (Cl. 132—41)

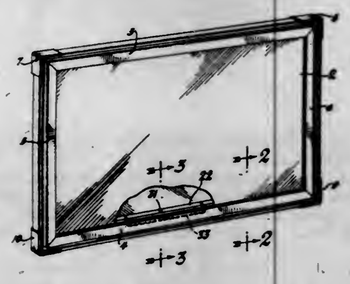
1. A hair curler comprising a body having a rear end-portion, said end-portion being made of resilient material and being provided with resilient walls which have aligned slits whose outer ends are open, each said slit having a pivot enlargement at its inner end, a clamping bar having pivot portions which laterally and outwardly overlie said resilient walls, said pivot portions being provided with aligned holes, said clamping bar being open at its inner face laterally between said holes, a supplemental clamping member having transverse end-portions which project through said holes, said end-portions being turnably located in said pivot enlargements and pivotally connecting the clamping bar to said body and pivotally connecting said supplemental clamping member to said body and to said clamp-

ing bar, the thickness of said transverse end-portions exceeding the normal widths of said slits



when said walls are undistorted, said body and said supplemental clamping member having detachable connecting means.

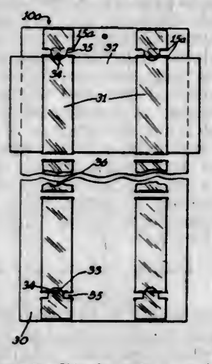
2,278,694
DOUBLE GLASS WINDOWPANE
William B. Firner, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 15, 1940, Serial No. 335,259
1 Claim. (Cl. 20—56.5)



A multiple window pane structure having panes spaced from each other in a frame of strip material for its edges, said strip material being formed with a channel for the panes, said channel having a narrowly waisted section between its base and the part thereof occupied by the panes and clearance space between the panes and the sides of the channel for an adequate amount of sealing compound to bond the panes to the sides of the channel; said waisted section giving the strip material a degree of transverse flexibility to permit differential thermal expansive and contractive movement of the panes in their planes, and an accommodating movement of the sides of the channel to which they are bonded.

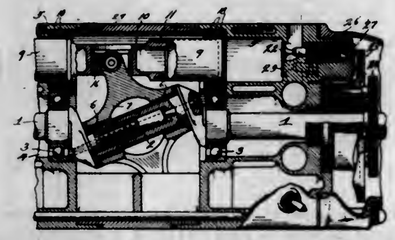
2,278,695
CARD HANGER
Abram Fluss, Jamaica, N. Y.
Application February 17, 1940, Serial No. 319,481
2 Claims. (Cl. 40—124)

1. A sheet having pairs of parallel slits and forming straps between said slits, an elongated transparent strip passing through said slits, behind said straps, and in front of the portions between said straps, and cards inserted between said strips and said sheet, said strip being formed



with a U-shaped slit forming a tab engaging one of said straps.

2,278,696
ROTARY ENGINE
Warren E. George, Tekamah, Nebr.
Application January 8, 1941, Serial No. 373,657
1 Claim. (Cl. 121—119)

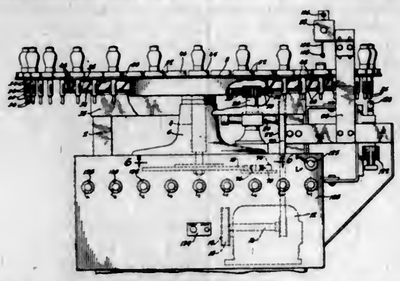


The combination with a wobbler typye engine having a wobbler frame, arms carried by said frame, pairs of pistons disposed in opposed cylinders and adapted to be reciprocated in said cylinders, of floating connections transversely between the cylinders of each pair of cylinders and connecting each pair of cylinders to the wobbler arms, said floating connection comprising a radially movable sleeve between the pistons of each pair of pistons, a transverse sleeve extending through a wabbler arm and having bearings in the first mentioned sleeve on opposite sides of the wabbler arm, expansion springs within the ends of the transverse sleeve, said expansion springs being interposed between a partition within the transverse sleeve and partitions in the bearings of the radially movable sleeve in which the transverse sleeve is rockably mounted.

2,278,697
AUTOMATIC TUBE TESTER
Gray K. Gould, Kokomo, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 3, 1940, Serial No. 350,529
14 Claims. (Cl. 250—27)

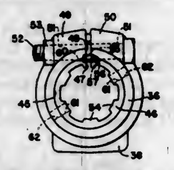
1. In a testing machine for multiple electrode tubes, a plurality of aligned sockets having a plurality of electrode contacts and movable along a predetermined path for supporting tubes to be tested, measuring means, voltage supply means, switching means for connecting the contacts to

both the measuring and the voltage supply means in any combination and variably at different por-



tions of their travel whereby a series of tests may be made at successive points.

2,278,698
POWER TAKE-OFF CONNECTION
Joseph L. Green, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application May 23, 1940, Serial No. 336,805
2 Claims. (Cl. 287—53)



1. A power transmitting connection for connecting the power shaft of an implement with various sizes of splined power take-off shafts on tractors with which said implement may be associated, said connection comprising in combination, a removable adapter bushing having a splined bore for receiving the splined power take-off shaft of one of said tractors, a drive sleeve attached to said implement power shaft and having an internal diameter appreciably greater than the external diameter of the largest power take-off shaft to which said implement shaft is intended to be connected and adapted to embrace the periphery of said bushing, said sleeve and said bushing having aligned radially extending slots and axially extending notches in the opposed inner corners of the slot in the sleeve and in the opposed outer corners of the slot in the bushing, the four notches forming a keyway, a key in said keyway, and means for clamping said sleeve, said bushing and said key rigidly together.

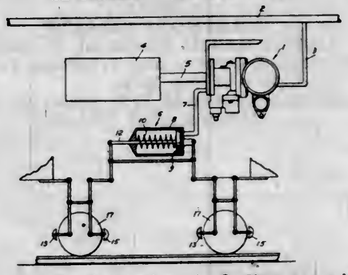
2,278,699
BOILER CONSTRUCTION
Earl W. Jorolemon, Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 21, 1939, Serial No. 295,893
8 Claims. (Cl. 122—225)

4. A sectional boiler having a series of upright hollow sections, said sections being formed at their lower ends to provide a combustion space and at their upper ends to provide a longitudinally extending flue passage, said combustion space and flue passage being vertically spaced and said sections being formed with vertically extending opposed faces between said combustion space and said flue passage and a plurality of heat absorbing fins on said opposed faces of said sections, said fins being transversely tapered and arranged in horizontally inclined transverse rows to deflect combustion gases laterally during



travel from said combustion space to said flue passage.

2,278,700
AIR BRAKE
Dmitri Andreievich Kaloshin, San Francisco, Calif., assignor of one-half to Paul Pimenoff and Pelagea Lubushkin, both of San Francisco, Calif.
Application September 27, 1940, Serial No. 358,625
11 Claims. (Cl. 303—35)

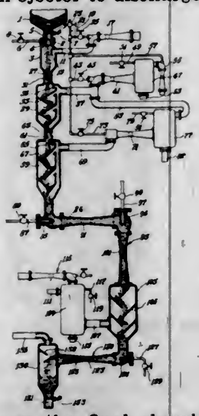


1. An air brake system including a main line normally carrying air at a certain standard pressure; a brake mechanism; a supply tank; and an actuating mechanism connected with the main line, supply tank and brake mechanism, said actuating mechanism comprising means for allowing the compressed air to pass from the supply tank into said brake mechanism when the air pressure in the main line decreases, and for restricting the passage of compressed air from said tank into said brake mechanism when the pressure of air in the main line raises to said standard pressure; a valve adapted to open and to close at certain air pressures; and means for bringing said valve in communication with said main line when the air pressure in the latter decreases to a certain level, so as to discharge said compressed air from the main line into the atmosphere and thereby reduce the pressure thereof to a certain level.

2,278,701
VACUUM MOISTENING APPARATUS
Alfred D. Karr, Newark, N. J., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application October 3, 1940, Serial No. 359,510
8 Claims. (Cl. 83—27)

1. In a grain moistening apparatus, the combination of a plurality of chambers arranged vertically in series for continuously moving the grain

therethrough by gravity, means to evacuate each chamber to progressively lower pressures, means including a steam ejector to discharge and moisten the grain from the final chamber of said series, and fluid pressure operated means to remove the grain from the last means and subject the grain to atmospheric pressure.

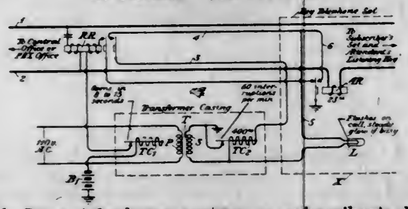


2,278,702

TELEPHONE CIRCUIT

Gale Leonard Knittle, Brookfield, Ill., assignor to American Telephone and Telegraph Company, a corporation of New York

Application October 18, 1940, Serial No. 361,686
12 Claims. (Cl. 179—42)



1. In a telephone system, a subscriber's line arranged for the interception of a call by an attendant, a signal lamp, means responsive to a call on said line to establish a circuit for flashing said lamp, a thermal contact device including a contact in said lamp circuit and a thermal element, and means to supply alternating current over said contact to said thermal element and to said lamp, whereby said thermal element is heated by current passing over said contact to open and close said contact and thereby cause said lamp to flash.

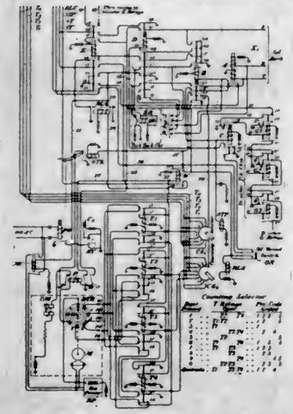
2,278,703

TELETYPEWRITER RECORDING SYSTEM

Gale Leonard Knittle, Brookfield, Ill., assignor to American Telephone and Telegraph Company, a corporation of New York

Application August 7, 1941, Serial No. 405,728
10 Claims. (Cl. 179—4)

1. In a teletypewriter recording system, the combination of means for producing a predetermined number of pulses of current, means for translating said pulses of current into a teletypewriter code signal which corresponds to the number of pulses, clock-controlled means for producing a predetermined number of pulses of current corresponding to the time of day, means for translating said letter pulses of current into a second teletypewriter code signal corresponding to the number of such pulses, and means for recording both of said teletypewriter code signals.

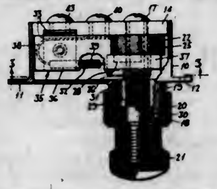


2,278,704

THERMOSTATICALLY CONTROLLED ELECTRICAL SWITCH

Daniel Kumpman, Dover, N. J.

Application July 25, 1940, Serial No. 347,356
8 Claims. (Cl. 200—122)



1. In an electric switch, a manually actuated rotatable shaft, a spring-urged contact arm loosely mounted on said shaft and adapted to normally rotate with said shaft, a bi-metallic contact strip normally disposed circumferentially in the plane of said contact arm adapted to engage said arm and restrain rotation thereof against spring tension, the spring tension increasing upon further rotation of the shaft in the same direction until the arm by increased tension is caused to disengage the strip, said arm and said strip when in engagement being adapted to close a circuit between an electrical source and an electrically operated device, an electrical heating element adjacent said bi-metallic strip, a rotatable contact member fixedly mounted on said shaft, a fixed contact disposed circumferentially in the plane of said rotatable contact and adapted to be engaged thereby while said arm and said strip are in engagement and close an electrical circuit to said heating element whereby heat from said heating element will cause said bi-metallic strip to disengage said spring-urged arm the spring tension causing said arm to move out of contact with said strip.

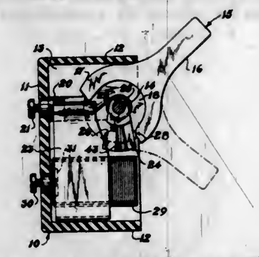
2,278,705

AUTOMATIC CIRCUIT GOVERNING DEVICE

Daniel Kumpman, Dover, N. J.

Application June 20, 1941, Serial No. 398,883
6 Claims. (Cl. 200—116)

1. In an electric switch, a manually operable switch circuit controller movable from an open end position through an intermediate position to a closed end position and vice versa, a circuit governing mechanism, resilient means situated between said circuit controller and said circuit governing mechanism and normally tensioning these parts, said resilient means being further tensioned by a return movement of said switch circuit controller from one of said end positions to tension said circuit governing mechanism for circuit governing movement, a deflectable thermostatic contact arm engaging a portion of said mechanism to restrain said movement when said switch circuit controller is returned to the intermediate position, a heating coil for controlling said thermostatic contact arm, and means connected to said switch circuit controller for establishing a secondary circuit in said heating coil when said switch circuit controller is in said intermediate position, whereby said circuit governing mechanism will be released for circuit governing movement after a predetermined lapse of time.

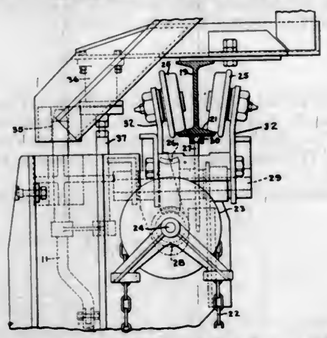


2,278,706

DEVICE TO MOTIVATE ROLLER CARRIAGES ON OVERHEAD TRACKS

William J. Laufersweiler and Royal E. Thompson, Columbus, Ohio, assignors to The Kinnear Manufacturing Company, Columbus, Ohio, a corporation of Ohio

Application August 25, 1939, Serial No. 291,944
2 Claims. (Cl. 189—46)



1. In a door closing mechanism, a track, a trolley thereupon, a member depending therefrom which is to be moved, and means movable with said trolley and movable member for irreversibly propelling the same along said track, said last named means comprising a rotatable wheel, an endless hand chain passing thereabout and adapted to rotate the same, a worm fixedly attached to said rotatable wheel, a worm wheel irreversibly enmeshed with said worm, a toothed wheel fixedly attached to said worm wheel, and means fixedly mounted parallel to said track adapted to be drivingly engaged by said toothed wheel, whereby movement of said hand chain causes propulsion of said trolley and said movable member along said track, but said trolley and said movable member are locked against movement along said track whenever movement of said hand chain is discontinued.

2,278,707

SAFETY PERCUSSION DRILL HOLDER AND ARTICLE

Everett P. Luttgens, Elizabeth, N. J., assignor to Diamond Expansion Bolt Company, Garwood, N. J., a corporation of New Jersey

Application December 11, 1941, Serial No. 422,563
6 Claims. (Cl. 125—40)



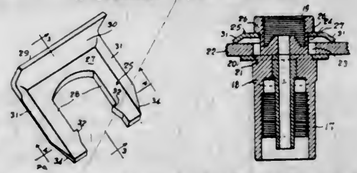
3. The combination in a safety percussion drill holder provided with a means at one end to detachably hold a drill, and near the other end provided with a locking annular groove to detachably hold a resilient guard to protect the hand of an operator from blows of a hammer or other percussion tool, and a resilient guard provided with an aperature of less diameter than the diameter of the groove, to permit the resilient guard to be sprung over the end of the drill holder and snapped into, and be detachably held by its own resiliency in the locking groove in the drill holder.

2,278,708

METHOD OF MAKING FASTENING DEVICES

William H. Miller, Royal Oak, Mich., assignor to The Flex-O-Tube Company, Detroit, Mich., a corporation of Delaware

Original application January 17, 1939, Serial No. 251,383. Divided and this application May 29, 1939, Serial No. 276,323
2 Claims. (Cl. 29—148)



1. An improved method of making a detachable fastening device for securing tubing and the like conduits to a rigid support consisting of the steps of (*a*) cutting out a U-shaped member from a rigid sheet of material, (*b*) forming the leg portions into angle members to provide reinforcement along the longitudinal axis thereof, (*c*) forming a groove adjacent the closed side of said U-shaped fastener to provide an upturned flange across the face thereof, (*d*) diagonally cutting off the outer corners of the leg extremities, and (*e*) beveling the end extremities thereof.

2,278,709

MANUFACTURE OF TITANIUM DIOXIDE PIGMENTS

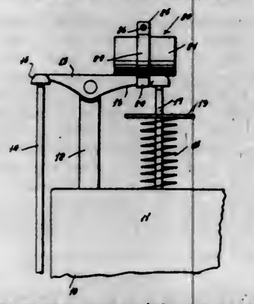
Walter G. Moran, Woodbridge, N. J., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application July 2, 1940, Serial No. 343,533
6 Claims. (Cl. 75—115)

1. Method for solubilizing titaniferous ores

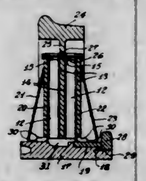
which comprises heating ground titaniferous ore with concentrated sulfuric acid, dissolving the resulting reaction mass in aqueous media, separating undissolved residues from the resultant solution, hydrolyzing the solution, admixing the separated residues with sufficient of the spent acid hydrolysis mother liquor to form a free-flowing slurry and returning said slurry to a subsequent ore-concentrated acid mixture prior to initiating the reaction between the said ore and concentrated acid, the proportions of ore, concentrated acid and slurry being such that a non-fluid reaction mass is obtained.

2,278,710
GAUGE FOR DETERMINING VALVE CLEARANCE
Alfred Richard Orr, Cripple Creek, Colo.
Application December 3, 1940, Serial No. 368,387
5 Claims. (Cl. 33—181)



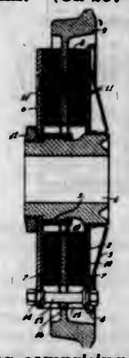
1. A valve gauge comprising a casing adapted to be positioned on the valve gearing of an engine, an offset contact carried by the casing, an oscillatable disk within the casing, operative connections between the disk and offset contact for effecting oscillations of said disk and means rendered visible at the limits of oscillatory movements of the disk for determining the extent of movements of the disk.

2,278,711
ELASTIC SPRING AND RESILIENT WHEEL
Emil H. Piron, New York, N. Y., and Clarence F. Hirshfeld, Detroit, Mich., assignors to The Transit Research Corporation, New York, N. Y., a corporation of New York
Application January 29, 1938, Serial No. 187,650
4 Claims. (Cl. 295—11)



3. A rail wheel comprising a hub having two relatively movable plates radiating therefrom, a third plate between said parallel plates, springing elements separating said third plate from each of said parallel plates, said springing elements each comprising two circular metallic discs surface bonded to a plurality of segments of rubber therebetween, said segments of rubber being spaced apart to provide air chambers, and means drawing said parallel plates toward each other whereby said elements are maintained under substantial compression, each of said circular metallic discs having dowels arising from the exposed surfaces thereof for engagement with openings in said plates whereby said discs and said segments are maintained against sliding with respect to said plates.

2,278,712
SUPERRESILIENT WHEEL
Emil H. Piron, New York, N. Y., assignor to Transit Research Corporation, New York, N. Y., a corporation of New York
Application November 29, 1940, Serial No. 367,826
6 Claims. (Cl. 267—63)

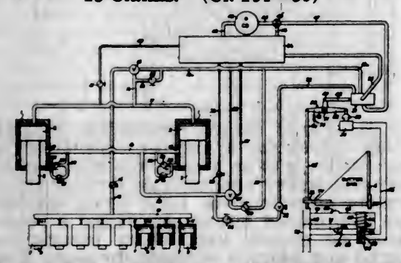


1. A shear spring comprising a disc of elastic plastic material adapted to be compressed when placed in service, said spring having a circumferentially extending groove in its peripheral edge, said groove having a cross sectional contour corresponding to the shape of a parabola when said disc is free from compression, with the contour of the parabola following within approximately 20% plus or minus the equation

$$x^2=ay$$

where x is the abscissae measured from the median axis of the groove, where a equals $0.0852r$ plus 0.588 with r being the radius of the grooved edge at the point where the contour of the groove is being considered, and y serves to determine the depth of the groove for any value of x.

2,278,713
HYDRAULIC CUTTING MACHINE
William J. Riddle, Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware
Application March 28, 1941, Serial No. 385,717
15 Claims. (Cl. 164—56)



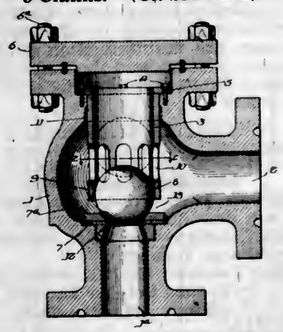
1. In a hydraulically operable cutting machine, a main plunger having associated therewith fluid operable advancing and retracting means for reciprocating said plunger, cutting means operatively connected with said main plunger, a fluid operable auxiliary plunger for holding a work piece to be cut, and valve means controlling the admittance of pressure fluid to said advancing means in response to a predetermined pressure on said auxiliary plunger.

2,278,714
REPAIR CLAMP FOR PIPES
Charles P. Stauffer, Bell, Calif.
Application March 10, 1941, Serial No. 382,473
3 Claims. (Cl. 138—99)



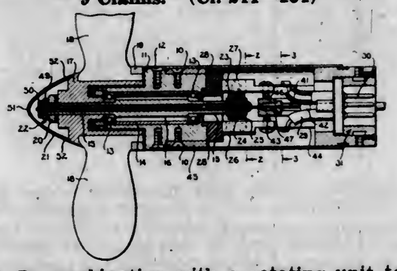
1. A repair clamp for pipes comprising a pair of blocks, each formed in a single piece, means associated with said blocks for drawing the same together, the ends of said blocks being provided with longitudinally disposed slots open at their outer ends so as to provide pairs of spaced lugs, a one-piece band of flexible material adapted to encircle the pipe to which the clamp is applied and the ends of said band being slotted lengthwise to form spaced strips that pass over and beneath the forward lug of each pair, thence upwardly through the slots between said lugs and thence over the rear lug of each pair.

2,278,715
VALVE
Ludwig T. Stoyke, Chicago, and Frederick R. Venton, Clarendon Hills, Ill., assignors to Crane Co., Chicago, Ill., a corporation of Illinois
Application October 10, 1940, Serial No. 360,538
5 Claims. (Cl. 251—121)



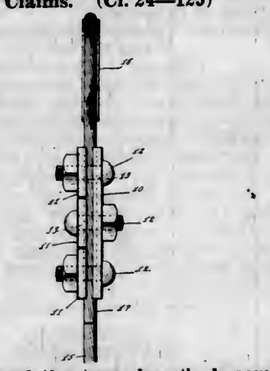
1. A check valve comprising a casing having an inlet and an outlet, a seat within the casing and a ball closure member therefor, annular ball-guiding means, the said annular ball guiding means and the said seat having therebetween a radially extending passageway for fluid having a cross-sectional area less than 87½% of the area of the opening through said seat, said ball-guiding means consisting of a substantially continuous annular member overlapping and substantially surrounding the horizontal centerline of the said ball when seated, the ball and said ball-guiding means having therebetween an area less than one-fifteenth of the area of the opening through said seat.

2,278,716
DEICING APPARATUS
Edgar L. Vail, New York, N. Y., assignor to Jaeger Watch Company, Inc., New York, N. Y., a corporation of New York
Application March 16, 1939, Serial No. 262,132
9 Claims. (Cl. 244—134)



1. In combination with a rotating unit to be deiced, a reservoir carried in front of said unit, a stationary hollow member extending through said unit and communicating with said reservoir, and a source of anti-freeze fluid connected to said member.

2,278,717
SOLID WIRE AND STRAND CLAMP
Richard H. Burns, Muncie, Ind., assignor to Indiana Steel & Wire Company, Muncie, Ind., a corporation of Indiana
Application July 11, 1940, Serial No. 344,936
7 Claims. (Cl. 24—125)

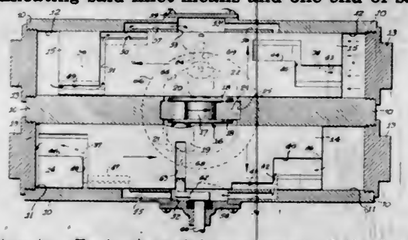


6. A clamp of the type described, comprising an elongated back plate grooved in its front face to support two cable stretches in substantially co-planar relationship and to confine such cable stretches laterally, a plurality of individual front plates in opposed relation to said back plate, and clamping bolts between the two cable stretches for forcing said front plates toward said back plate to clamp the cable, at least one of said front plates having a single clamping bolt passing through it and being angularly movable relative to said back plate about the axis of such single bolt.

2,278,718
WINDSHIELD WIPER MOTOR
Dimitry Cook, Detroit, Mich.
Application August 10, 1940, Serial No. 352,139
9 Claims. (Cl. 121—101)

1. A windshield wiper device comprising, a cas-

ing having a cylinder formed therein, fluid inlet and outlet means formed in said casing in communication with said cylinder, a piston mounted in said cylinder for movement axially and rotatably relatively thereto, means formed in said piston for movement unitarily therewith and operable in one position of said piston for intercommunicating said inlet means and one end of said



piston to effectuate axial movement of the latter in one direction and in another position of said piston for intercommunicating said inlet means and the other end of said piston to effectuate axial movement of the latter in the opposite direction, and means operatively connected to said piston and rotatable about a transverse axis responsive to said axial movements thereof for effectuating piston rotation.

2,278,719

METHOD OF SYNTHESIZING SULPHUR-BEARING, HIGH MOLECULAR WEIGHT HYDROCARBONS

Lloyd L. Davis, Bert H. Lincoln and Gordon D. Byrkit, Ponca City, Okla., assignors to Continental Oil Company, Ponca City, Okla., a corporation of Delaware

No Drawing. Application September 27, 1940, Serial No. 358,698
2 Claims. (Cl. 260—139)

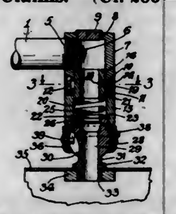
1. A method for the synthesis of sulphur-bearing derivatives of high molecular weight, including the steps of halogenating paraffinic hydrocarbons whose monochloro derivatives melt lower than the hydrocarbons themselves, separating relatively pure halogenated hydrocarbons from the crude halogenated mixture, dehalogenating the said relatively pure halogenated hydrocarbons to form olefins and reacting thereon with a reagent selected from the group consisting of sulphides of phosphorus and halides of sulphur.

2,278,720

FIXTURE JOINT

Vermont Follet, Elmhurst, Ill., assignor to Standard Screw Company, Hartford, Conn., a corporation of New Jersey

Application April 29, 1940, Serial No. 332,324
3 Claims. (Cl. 285—97.3)



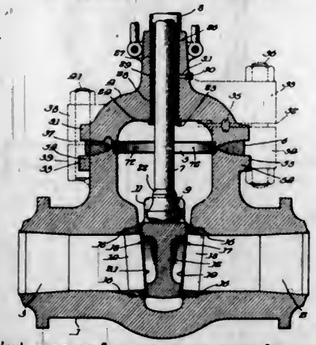
1. In combination in a joint, a pair of hollow joint members secured together and shaped to fit one within the other and to have relative rotation when the joint is finally put together for use and means for holding them against axial separation, means for limiting their relative rotation, a ball and socket joint formed partly within one of said hollow members, there being a retaining member for said ball and socket joint engaging one of said hollow members, and a friction member positioned within said last mentioned hollow member and compression means bearing against said friction member, and means for limiting the movement of said ball and socket joint to a single plane.

2,278,721

FLUID SEAL FOR PRESSURE VESSELS

Robert M. Jones, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois

Application January 16, 1941, Serial No. 374,608
3 Claims. (Cl. 285—129)



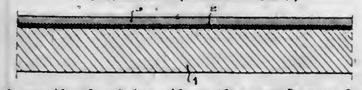
1. Joint means for pressure vessels, comprising an annular pressure-sealing gasket of expandible material positioned within an outwardly tapered circumferential groove common to a pair of abutting sections of said pressure vessel, removable rings having radially extending apertures respectively positioned concentrically within said gasket, said rings adapted to restrain radial deformation of said gasket under the influence of internally applied fluid pressure, the outer of said rings being wedge shaped in cross-section and cooperating in interlocking relation with said joined sections of said pressure vessel whereby said sections are maintained in predetermined spaced-apart relation, and the inner of said rings acts to align the pair of abutting sections of said pressure vessel.

2,278,722

METALLIC COATING

Jean Loiseleur, Paris, France, assignor to Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint Gobain, Chauny & Cirey, Paris, France

Application February 23, 1937, Serial No. 127,285
In France October 21, 1936
2 Claims. (Cl. 91—68.3)



1. A method of treating the surface of materials for forming thereon, through a wet method and in the absence of an external electric source, a highly adhesive deposit of a metal, the electrolytic potential of which is positive with respect to hydrogen in the electromotive series, which method comprises conditioning said surface for rendering it adsorbent to a molecular

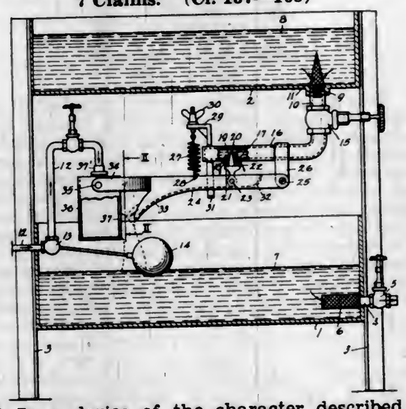
layer of ions, applying said layer through contact with an alkaline solution of a metallic ion having a positive electrolytic potential with respect to hydrogen in the electromotive series, removing any excess of ions by abundantly washing said surface, and immediately metallizing the surface thus prepared by means of a solution containing simultaneously with a ferrous salt and an hydroxy acid the solution of a salt of the metal to be deposited, this last mentioned solution having been brought to the state of minimum oxidation.

2,278,723

LIQUID MIXER

Job F. Malsbary and Walter W. Taylor, Oakland, Calif.

Application September 6, 1939, Serial No. 293,580
7 Claims. (Cl. 137—165)



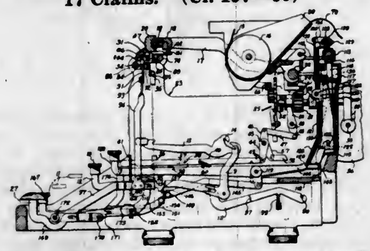
6. In a device of the character described, a lever having a pivotal support and shaped to form a trough, means controlled by the lever for discharging a liquid on the trough, means operative on the lever for moving the same in response to changes in the rate of flow of a second liquid and having a discharge opening for said liquid, the trough being positioned and shaped for guiding the liquid carried thereby toward the discharge opening for immediately mixing the two liquids issuing from the discharge opening and the trough.

2,278,724

TYPEWRITING MACHINE

Miles H. Mann, West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware

Application November 25, 1938. Serial No. 242,337
17 Claims. (Cl. 197—66)



1. In a typing machine having numeral type agents and a carriage for typing a line, including an amount column, on a work sheet form; carriage-return mechanism, a carriage-operable controller therefor normally operative after typing in said amount column for automatically causing said carriage to be returned by said mechanism, a device operable preparatory to extending the typing of the line beyond the amount column, means causing said controller to become conditioned relatively to said carriage in response to operation of said device for preventing automatic return of the carriage from the amount column, a normally ineffective operative connection from certain of said numeral type agents to said device, and means operable by said carriage at said column to render said connection effective whereby said device is operated automatically when an amount is typed in said column by said certain type agents.

2,278,725

MAGNESIUM BASE ALLOY

John C. McDonald, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application October 4, 1940, Serial No. 359,680
4 Claims. (Cl. 75—168)

4. A magnesium base alloy containing from 0.01 to 3 per cent of palladium and characterized by a substantial improvement in at least one of the properties ductility, tensile strength, and yield strength as compared with magnesium without the palladium.

2,278,726

MAGNESIUM BASE ALLOY

John C. McDonald, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application October 4, 1940, Serial No. 359,681
3 Claims. (Cl. 75—168)

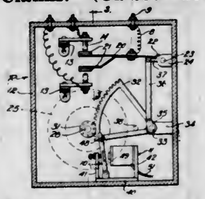
3. A magnesium base alloy containing from 0.1 to 10 per cent of germanium and characterized by substantial improvement in at least one of the properties ductility, tensile strength, and yield strength as compared with magnesium without the germanium.

2,278,727

RELAY SYSTEM

Samuel E. McFarland, Los Angeles, Calif.

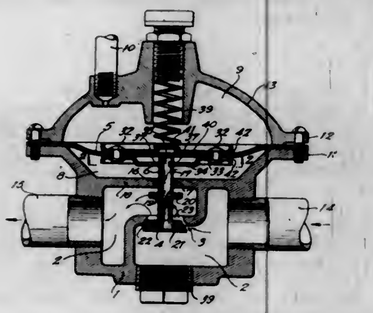
Application June 12, 1939, Serial No. 278,687
3 Claims. (Cl. 200—106)



1. A control for a line relay having spaced sets of contacts, a movable contactor element for engaging said contacts, a motor, and a gear operated by the motor in one direction to engage the contactor with one set of contacts and movable by gravity in the other direction to engage the contactor with the other set of contacts, the control comprising a pin on the gear, a pivoted latch normally held by gravity in a position clear of the arcuate path of the pin, and electromagnetic means operable to move the latch to a position where it is engageable by the pin to

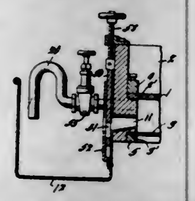
limit falling of the gear when the motor is deenergized to maintain the contacts engaged, the latch having a notch for receiving the pin to limit falling of the element and cooperable with the pin to prevent return of the latch to the normal retracted position prior to reenergization of the motor.

2,278,728
FLUID PRESSURE REGULATOR
Edwin W. McKinley, Los Angeles, Calif.
Application February 9, 1940, Serial No. 318,047
2 Claims. (Cl. 50—23)



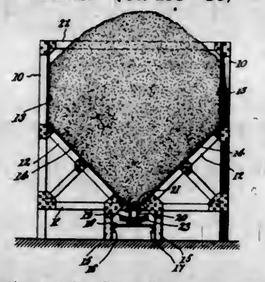
1. In a fluid pressure regulator, the combination of a casing having a fluid passage therethrough for the fluid and having a pressure chamber with a wall separating the same from said passage, a movable member in the pressure chamber, a valve in said passage for controlling the flow through the same, said wall having a valve stem guide-opening therethrough; and a tubular stem passing through said guide-opening connecting said movable member and said valve, communicating at its upper end with the interior of said pressure-chamber, and having a port emerging at the side of the stem toward the delivery end of said fluid passage, said valve-stem having a baffle located adjacent the said guide opening for shielding the inner end of said guide-opening.

2,278,729
APPARATUS FOR SCREENING PULP
Albert D. Merrill, Watertown, N. Y.
Application December 2, 1937, Serial No. 177,795
1 Claim. (Cl. 92—32)



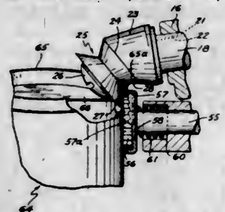
A pulp screening apparatus comprising a container, a screen mounted at the upper part of the container, a resilient diaphragm mounted at the base of the container, positive driving means for the diaphragm; an outlet for the container located closely adjacent the screen, a valve in said outlet, a second outlet from the container located closely adjacent the diaphragm, a control valve in said outlet and means to effect a controlled flow of screened pulp through each of said outlets.

2,278,730
APPARATUS FOR DISCHARGING BINS TO CONVEYERS
Jacob J. Neuman, South Salem, N. Y., assignor to United States Patent Development and Royalty Company, South Salem, N. Y., a company of New York
Application January 18, 1940, Serial No. 314,518
2 Claims. (Cl. 198—56)



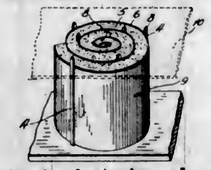
1. In a material feeding device, a material bin having outwardly convergent walls leading to a discharge opening which extends longitudinally throughout the length of the bin, a conveyer below said discharge opening positioned to receive material from said bin, leveling beams extending transversely above said conveyer and through the lower portion of said bin, and lower edges of said beams terminating immediately below said discharge opening, a pair of spaced vertical members secured to the underside of said leveling beams and extending longitudinally along the bottom of said bin on each side of said discharge opening, the lower edges of said members terminating adjacent said conveyer to form a trough extending longitudinally throughout the length of said discharge opening, transverse plates slidably supported on said members for selectively controlling the discharge of material from said bin into said trough and on to said conveyer, and means for selectively driving said conveyer at variable speeds.

2,278,731
CAN OPENER
Leo Olschewski, Rahway, N. J., assignor to The Regina Corporation, Rahway, N. J., a corporation of New Jersey
Application May 11, 1940, Serial No. 334,475
15 Claims. (Cl. 30—9)



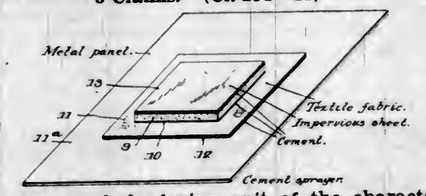
1. In a can opener, a propelling means including a wheel having a toothed periphery, and a cup-like device having a toothed end, means mounting said wheel with its end face opposed to the side wall of the can and with its toothed periphery located to engage an edge of the can flange at the outer side of the can, means mounting said cup-like device with its toothed end disposed to engage the outer side of the can flange, said last means including spring means whereby the cup-like device may be moved toward and from the said side wall of the can for cooperation with flanges of different thicknesses and whereby said device is yieldingly maintained in position with its teeth pressed against the edge of the flange of the can presented to the opener, means for operating said propelling means to revolve the can, and a cutter adapted to lie inside the can flange in position to cut the head of the can adjacent the flange as the can is revolved.

2,278,732
INSULATING BUILDING STRUCTURE
Joseph R. Parsons, Chicago, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application April 22, 1940, Serial No. 330,891
3 Claims. (Cl. 20—4)



1. The method of storing elongated bats of loosely matted mineral wool fiber comprising distributing a plurality of slender semi-rigid bars of slightly greater length than the width of said bats transversely at intervals along the length of each bat, rolling said bat to form a closed coil roll with said bars extending slightly from at least one end, and storing said rolls on end in a plurality of superposed tiers by interposing a tier-supporting panel between adjacent tiers.

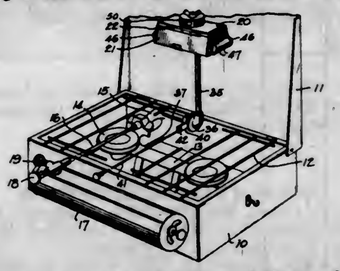
2,278,733
SOUND DEADENER
Paul G. Peik, Detroit, Mich., assignor to Emulsions Process Corporation, New York, N. Y., a corporation of Delaware
Application October 5, 1939, Serial No. 298,159
5 Claims. (Cl. 154—44)



1. A sound deadening unit of the character described, comprising a panel of vulcanized sponge rubber of a type initially very fragile and incapable of being securely bonded to metal by cement, a piece of loosely woven textile fabric secured to one side of the panel, and an impervious reinforcing facing secured to the opposite side of the panel, the facing and piece of textile fabric each being at least as large as the area of the panel.

2,278,734
LAMP
Leslie K. Perry, Palms, Calif.
Application June 22, 1940, Serial No. 341,873
2 Claims. (Cl. 67—50)

1. A lamp of the class described comprising: a housing having air inlets, a top opening and air outlets around said opening; a preheater secured on the housing and having a laterally disposed gas inlet and a depending tubular extension projecting through said opening and constituting an outlet through which to supply gas to a mantle supported on said extension; and an inverted cup having outlet ports therein and enclosing said preheater to provide a heating space therebetween through which residual gas discharging from the housing through its outlets,



can circulate to effect heating of the preheater before the air is discharged from said space through the cup outlets, and a vertical gas supply tube having an upper elbow portion extending through said cup, across said space, and connected to said gas inlet of the preheater to support the lamp in an elevated position.

2,278,735
MASON'S LINE HOLDER
Gilbert Perry, Brewster, N. Y.
Application October 18, 1940, Serial No. 361,778
1 Claim. (Cl. 33—86)

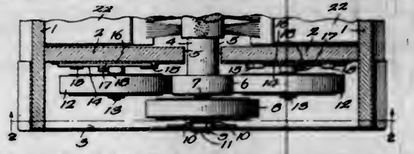


A line holder, comprising two pivoted arms, a single or common pivot for both arms, a contracting coil spring arranged between the arms below said pivot and having its ends passing through openings in the arms, laterally turned portions carried by the lower ends of the arms below the spring and arranged in the same plane, right angle gripping portions carried by the outer ends of the laterally turned portions and having their lower ends turned upwardly against the same and terminating at a point slightly below the lower faces of the laterally turned portions forming spaces for the passage of a line, an arm pivotally connected to the upper face of one of the laterally turned portions and normally parallel therewith and of a length greater than the portion upon which it is pivoted, a right angle gripping portion carried by the last named arm and having its lower end turned upwardly to form a line receiving space, whereby the same may be swung outwardly against the end of a brick to hold a line against the same.

2,278,736
CARPET SWEEPER
Edward B. Poggensee, Chicago, Ill.
Application April 26, 1941, Serial No. 390,466
5 Claims. (Cl. 15—41)

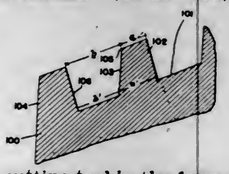
1. A carpet sweeper including a rotatable cylindrical brush having a longitudinal brush shaft, a brush driving wheel on each end of the shaft, two brush control wheels of the same diameter as the cylindrical brush, each control wheel provided with a bearing rotatably mounted in the

end of the brush shaft, means for supporting and allowing vertical travel of the outer end of each



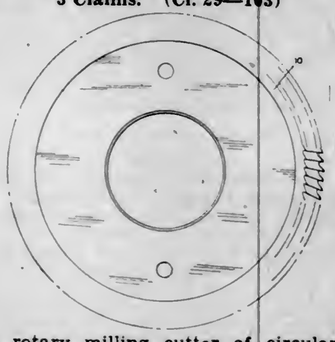
control wheel bearing, and means for imparting rotation to the brush wheel upon movement of the carpet sweeper.

2,278,737
ROTARY FINISHING CUTTER
Walter S. Praeg, Detroit, Mich., assignor to National Broach & Machine Company, Detroit, Mich., a corporation of Michigan
Application August 14, 1939, Serial No. 290,062
12 Claims. (Cl. 29—103)



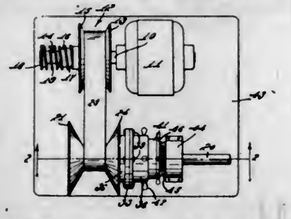
12. A gear cutting tool in the form of a gearlike member having helical teeth conjugate at crossed axes to the teeth of a gear to be cut, the teeth of said tool having grooves extending generally up and down the faces of said teeth, said grooves providing intermediate ribs, said ribs having top land surfaces which are conjugate to the teeth of the gear to be cut and which serve as guiding surfaces, at least the portions of the side walls of said grooves which intersect the faces of the teeth to provide cutting edges being straight in cross section perpendicular to their length, one of the said straight side wall portions being substantially parallel to the side of said tool and forming an obtuse angle cutting edge with the adjacent land surface, the opposite one of said straight side wall portions diverging outwardly of said grooves from the first mentioned side wall portion to provide a cutting edge with the adjacent land surface of reduced acuteness.

2,278,738
CUTTER
Walter S. Praeg, Detroit, Mich., assignor to National Broach & Machine Company, Detroit, Mich., a corporation of Michigan
Application November 13, 1939, Serial No. 304,247
3 Claims. (Cl. 29—103)



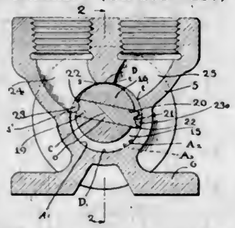
1. A rotary milling cutter of circular cross section having peripheral cutting teeth inclined to the axis of said cutter, each of said cutting teeth having a plurality of notches interrupting the cutting edges of said teeth and extending rearwardly therefrom, each of said notches extending in the plane of rotation of said cutter.

2,278,739
SPEED-VARYING DRIVE
Paul B. Reeves, Columbus, Ind., assignor to Reeves Pulley Company, Columbus, Ind., a corporation of Indiana
Application April 10, 1939, Serial No. 266,978
3 Claims. (Cl. 74—230.17)



1. A speed-varying drive comprising a power input shaft, a power output shaft having an extension, a resiliently expansible V-pulley on said power input shaft, an expansible V-pulley on said power output shaft and comprising a coned disc fixed to said power output shaft and having an elongated hub projecting from its coned face, and a mating coned disc splined on said hub, and having a hub projecting from its outer face, a belt providing a driving connection between said pulleys, a thrust bearing having its inner race fixed to the hub of said last-mentioned disc, a housing for said bearing fixed with respect to the outer race thereof, said housing being formed with an internally threaded sleeve projecting away from said last-mentioned disc, and a stationarily mounted externally threaded thimble encasing at least a portion of the extension of said power output shaft, said sleeve being adjustably threadedly mounted on said thimble.

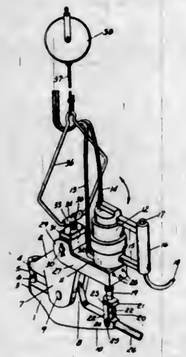
2,278,740
ROTARY PUMP
Amandus C. Roessler, Berea, Ohio, assignor to Bosec Company, Limited, Cuyahoga County, Ohio, a limited partnership
Application May 16, 1939, Serial No. 273,953
2 Claims. (Cl. 103—137)



1. A rotary fluid pressure machine comprising a casing, a chamber positioned within said casing and comprising halves of different form at opposite sides of a chamber diametrical chord, the chamber on one side of the chord being circular and on the opposite side of the chord being enlarged beyond a true circle, a rotor positioned eccentrically within said chamber and in contact therewith at the upper intersection of the chord

with said chamber, a single blade reciprocable diametrically within said rotor and adapted to make sealing contact with said chamber in all blade positions, a suction port in communication with the chamber through the circular half thereof at one side of the point of rotor contact, a discharge port in communication with the chamber through the enlarged half thereof at the other side of the point of rotor contact, and said ports being arranged so that when one end of the rotor blade closes the suction port the blade travels a sufficient distance before the other end of the blade opens the discharge port to restore the volume confined between the ends of the blade to the same value attained when the suction port was closed whereby partial vacuum or compression in the pump space is prevented.

2,278,741
PORTABLE RIVET HEADING TOOL
Andrew E. Rylander, Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio
Application December 1, 1939, Serial No. 307,142
4 Claims. (Cl. 78—19)

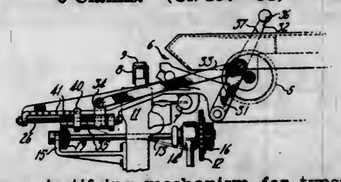


1. A hydraulic rivet heading tool comprising a pair of jaws, a hydraulic ram cylinder securely mounted upon one jaw and having its ram cooperating with the other jaw, a balancing bracket secured to one of said jaws and having a horizontal fulcrum, a member mounted upon said fulcrum, a stud swivelly connected to said member, a sleeve pivotally connected to said stud, and a suspension loop having its ends bent inwardly and rotatably mounted in the ends of said sleeve.

2,278,742
METHOD OF FORMING LUMINESCENT SCREENS
William J. Scott and James T. Anderson, Rugby, England, assignors to General Electric Company, a corporation of New York
No Drawing. Application April 14, 1938, Serial No. 202,012. In Great Britain April 20, 1937
4 Claims. (Cl. 91—70)

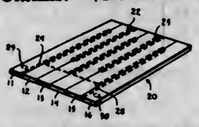
3. The method of forming a luminescent coating for an electric discharge lamp to increase the longevity of the lamp which consists in mixing a luminescent powder with a material consisting of a colloidal suspension of silica in a liquid, driving off the liquid to form a protective ultra violet ray transmitting coating of silica all over each individual particle of said luminescent powder and applying the coated powder to the interior surface of the lamp envelope.

2,278,743
TYPEWRITING MACHINE
Jesse A. B. Smith, Stamford, Conn., and Fred Becker, Queens Village, N. Y., assignors to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application September 22, 1939, Serial No. 296,072
6 Claims. (Cl. 197—84)



1. In a justifying mechanism for typewriters having a rotary-escapement-controlled carriage movable in line typing; a pinion rotatable with the escapement, a rack unit including a plurality of racks of different tooth pitch in co-planar relation, means slidably mounting said rack unit for movement axially of said pinion to selectively mesh any one of said racks with said pinion, and a rockable bail having arms articulated to said rack unit adjacent the ends thereof.

2,278,744
METHOD OF FORMING THERMOCOUPLES
Hubert T. Sparrow and John M. Wilson, Minneapolis, Minn., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application May 13, 1940, Serial No. 334,812
9 Claims. (Cl. 29—188)

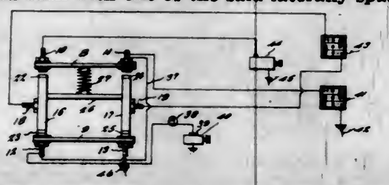


1. The method of forming thermo-electric devices which comprises the steps of assembling a plurality of strip members in side by side relation and in which the strips adjoining any one strip have thermo-electric characteristics dissimilar from the thermo-electric characteristics of said one strip, heating and rolling the said strip members to join them along their longitudinal side edges to the adjacent strip members to form a sheet of material, cutting said sheet transversely to provide a plurality of relatively short sections, separating adjacent strips for the greater portion of the length of each section by removing material from along each joint, the separation of the strips along adjacent joints extending from opposite ends of the section and the resulting structure being a continuous strip in which members having dissimilar thermo-electric characteristics are joined in series with alternate joints at one end of said sheet of material.

2,278,745
AUTOMOBILE STARTING AND ACCESSORY CIRCUIT
Walter Edmond St. George, Rochester, Minn.
Application June 3, 1939, Serial No. 277,303
5 Claims. (Cl. 290—36)

1. A device of the character described comprising a support, a bracket on said support, a pair of switch arms mounted for flexing on the same axis on said bracket and insulated therefrom and from each other, said switch arms being swingable independently of each other, each

switch arm comprising a pair of laterally spaced contacts, a first and a second pair of spaced and insulated contacts carried by said support on opposite sides of said switch arms, flexible means operatively connecting said switch arms, expansion spring means expanding between one side of said flexible means and a part of said support whereby the switch arms are normally positioned each with one of the said laterally spaced



contacts thereof in engagement with the corresponding ones of the contacts on the support, and manual means on said support having parts engageable selectively with one or both of said switch arms for moving the same out of its or their normal position or positions and into a position or positions in which the corresponding one or ones of said laterally spaced contacts engage the corresponding one or ones of the second pair of contacts on said support.

2,278,746

MANUFACTURE OF CATALYSTS

John F. Sturgeon, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application September 8, 1939, Serial No. 293,922

15 Claims. (Cl. 252—254)

1. A process for preparing a catalytic material useful in hydrocarbon conversion reactions which comprises forming a precipitated hydrogel composite, freezing and thawing said hydrogel composite with said freezing carried out at a low enough temperature and for a sufficient time to cause the freezing and thawing to destroy its gelatinous structure and to convert it into a substantially amorphous and non-gelatinous composite powder and an aqueous solution, filtering to separate a major proportion of said aqueous solution from said powder, washing the powder to remove water soluble impurities, forming said powder into particles, drying and calcining said particles.

9. A process for preparing a catalytic material useful in the cracking of hydrocarbon oils containing substantially no gasoline to produce substantial yields of gasoline therefrom which comprises separately precipitating silica hydrogel by acidifying an aqueous solution of an alkali metal silicate, adding to said silica hydrogel minor proportions of alumina and zirconia hydrogels produced by adding an alkaline precipitant to a mixture of aqueous solutions of aluminum and zirconium salts thereby producing a hydrogel composite, freezing and thawing said hydrogel composite with said freezing carried out at a low enough temperature and for a sufficient time to cause the freezing and thawing to destroy its gelatinous structure and to convert it into a substantially amorphous and non-gelatinous composite powder and an aqueous solution, filtering to separate a major proportion of said aqueous solution from said powder, washing the powder to remove water soluble impurities, forming said powder into particles, drying and calcining said particles at a temperature in the approximate range of 1000–1500° F.

2,278,747

CHEMICAL COMPOSITION

Fenton H. Swezey, Morris Earl Bishop, and Robert M. Hoffman, Waynesboro, Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 23, 1940, Serial No. 336,899

1 Claim. (Cl. 252—8.75)

A dressing composition to be applied to filaments, yarns and threads of cellulose acetate which comprises about 100 parts by weight of palm kernel oil, about 7.8 parts of diethylcyclohexylamine "loral" sulfate, about 0.8 part of diethylcyclohexylamine, about 0.17 part of "dilorol" phosphate, about 0.8 parts of Eugenol, about 3.3 parts of lecithin, and about 52 parts or refined mineral oil.

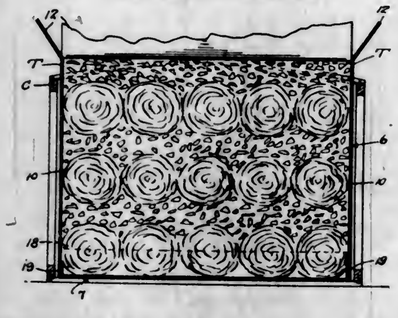
2,278,748

LETTUCE AND CARROT CRATE LINER

Benjamin Ferril Taylor and William Glen Simmons, Salinas, Calif.

Application October 4, 1939, Serial No. 297,930

1 Claim. (Cl. 217—3)



The combination with a skeleton crate having vertically spaced end slats disposed inwardly of the crate and lower side and bottom slats disposed remote from its lower side corners, a tray formed of heavy waxed material having up turned sides of greater height than its up turned ends, the former of which and adjacent portions of the bottom thereof closing the spaces between the lower side and bottom slats of the crate while the latter of which bear against the vertical end slats, a liner formed of heavy waxed material disposed in the crate with its lower edge resting in said tray against the sides and ends thereof with its upper portion extending above the top of the crate and flaps falling on the upper edge of the liner.

2,278,749

CHAIR ARM

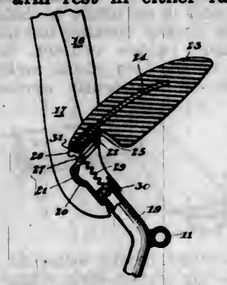
Edwin T. Todd, Grand Rapids, Mich., assignor to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey

Application February 9, 1939, Serial No. 255,486

2 Claims. (Cl. 155—112)

1. A chair frame having dual seats and backs disposed side by side in spaced relation, a tubular support disposed between the dual backs and having an apertured cap provided with spaced semi-circular depressions forming arm rest supporting bearings, a folding arm rest having spaced beads thereon pivotally supported in said bearings, and a coiled contraction spring secured at one of its ends between the beads and extending between the bearings where it is secured

at its other end to the tubular support for maintaining the arm rest in either raised position



between the dual backs or in lowered position above the dual seats.

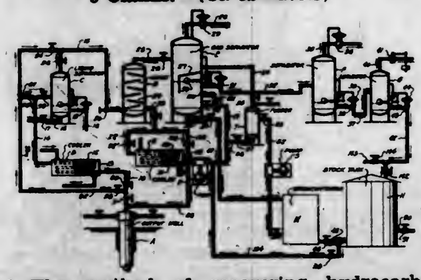
2,278,750

METHOD OF RECOVERING LIQUEFIABLE HYDROCARBONS FROM GASES OR GASEOUS FLUIDS

Jay P. Walker, Tulsa, Okla., assignor to Eureka Process Corporation, Tulsa, Okla., a corporation of Delaware

Application May 3, 1939, Serial No. 271,463

5 Claims. (Cl. 62—175.5)



1. The method of recovering hydrocarbon liquids from high pressure wells at pressures within the retrograde condensation range which includes, flowing a gaseous stream from the well in which stream condensed liquids are entrained, extracting free liquids from said stream, reducing the pressure of the flowing stream to approximately the ultimate pressure at which gas is separated therefrom, admixing a liquid reagent with the residual gaseous stream capable of rendering said stream impotent to the formation of gas hydrates at low temperatures, cooling said stream after reducing the pressure thereof to condense liquefiable hydrocarbons, separating the gas therefrom at high pressures within the range of retrograde condensation, and recycling the admixed liquids with the flowing stream.

2,278,751

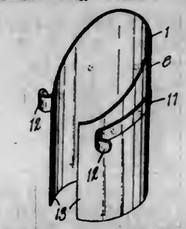
POURING SHEET

George W. Watrous, Battle Creek, Mich., assignor to The Duplex Printing Press Company, Battle Creek, Mich.

Application August 10, 1940, Serial No. 352,141

2 Claims. (Cl. 22—2)

1. A pouring sheet for use with casting boxes for making tubular plates comprising a thin sheet of spring metal formed on a curve slightly larger than the curve of the inside of the box and of a length to extend into the top of the box far enough to cover the upper edge of the matrix and to extend above the top of the box and sufficiently flexible to permit a user to spread it, and a band of metal extending circumferentially of said sheet and fastened to the outer surface thereof to stiffen and reinforce said sheet and



leaving the sheet sufficiently flexible to be spread by the user and substantially surrounding the sheet at the top of the box when the sheet is in place.

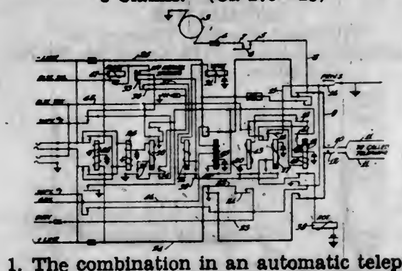
2,278,752

BUSY SIGNAL FOR AUTOMATIC TELEPHONE SYSTEMS

Bronson West and Howard L. Johnson, St. Paul, Minn.; said Johnson assignor of one-half of his entire right to said West

Application September 15, 1939, Serial No. 295,084

3 Claims. (Cl. 179—18)



1. The combination in an automatic telephone system having a line bank wiper and busy relay adapted to be energized only when an attempt is made to establish a connection with a busy line of a circuit connected to said line bank wiper and including spring contacts of the make-before break type under control of said relay and a constantly operating source of appraising tone adapted to be connected in said circuit under control of said contacts.

2,278,753

TREATMENT OF PETROLEUM AND DISTILLATES THEREOF

Charles Wirth, III, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application December 19, 1938, Serial No. 246,670

4 Claims. (Cl. 196—33)

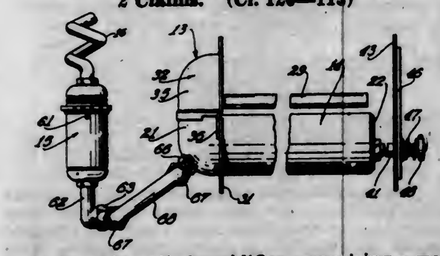
1. In the sweetening of petroleum distillates by treatment with plumbite and elementary sulfur, the method of removing elementary sulfur from the sweetened distillate which comprises treating the distillate with potassium hydroxide dissolved in a substantially water-free mixture of a mono-hydroxy alcohol which is soluble in the distillate and a second solvent which is miscible with the alcohol but insoluble in said distillate, the alcohol constituting a greater proportion of said mixture than the second solvent and said second solvent being selected from the group consisting of glycerine, ethylene glycol and mono methyl ether of diethylene glycol.

2,278,754
COFFEE MAKER
Frank E. Wolcott, West Hartford, Conn., assignor to The Silex Company, a corporation of Connecticut
Application June 17, 1938, Serial No. 214,278
1 Claim. (Cl. 53—3)



For a coffee maker comprising an upper bowl, a handle, a seal, said handle having an annular connecting portion provided with an axial aperture adapted to receive the upper end of a seal on the stem of said bowl, and radially located key receiving portions forming the inner wall of said aperture and disposed around said aperture and adapted to receive the top of said seal, said annular portion, key receiving portion and seal being dished on one face thereof to conform with the bottom of said upper bowl for permitting the said connecting portion to be retained in locked engagement with said seal by contact against the bottom of said upper bowl.

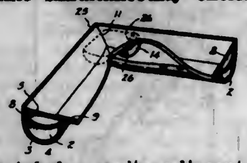
2,278,755
HUMIDIFIER
William J. Woolley, Chicago, Ill.
Application June 23, 1939, Serial No. 280,769
2 Claims. (Cl. 126—113)



1. An automatic humidifier comprising a water evaporation pan having inlet means in the lower portion thereof, a vertically movable supply conduit connected to a source of water supply, and adjustable means for selectively maintaining the level of the water in said pan, comprising a float valve mounted laterally of said pan, said valve having a casing forming a float chamber, an inlet end connected to said conduit and an outlet end, a rigid tube intermediate said valve and said pan, and pivot joint means connecting the ends of said tube with said outlet end of said valve and said inlet means of said pan whereby to allow substantially vertical adjustment of said float chamber relative to said pan for altering the height of the water level in said pan.

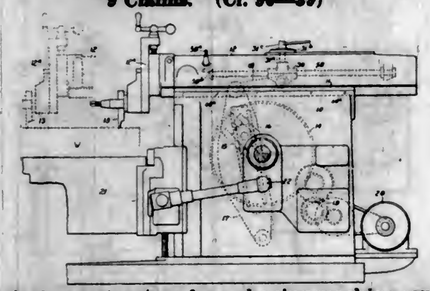
2,278,756
METHOD OF FORMING TUBE OR GASKET ANGLES
William A. Wright, Wabash, Ind., assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application May 27, 1940, Serial No. 337,328
2 Claims. (Cl. 154—42)

1. A method of forming an angle or corner of a resilient tubular cavity gasket for refrigerator doors and the like without appreciably impairing the resiliency of the gasket at the corner, comprising preparing a mitered end of suitable angle on each of two strips of gasket material having a closed longitudinal tubular cavity therein, which cavity has an outer wall and an inner wall, which inner wall is normally invisible from the exterior of the gasket, coating the mitered edges with a suitable rubber cement, bringing the coated edges of the two strips together and in register while simultaneously enclosing a core



within the tubular cavity adjacent said edges, curing the coating on the edges while holding the coated edges in a mold and in register, forming a cut through said inner wall of said cavity adjacent said core and removing said core through said cut without affecting the continuity of the outer wall of said tubular gasket.

2,278,757
SHAPING MACHINE
William F. Zimmermann, Maplewood, N. J., assignor to Gould & Eberhardt, Newark, N. J., a corporation of New Jersey
Application March 28, 1941, Serial No. 385,645
9 Claims. (Cl. 90—39)



1. A ram structure for a shaping machine comprising an elongated inverted U-shaped member having outer side walls and contiguous spaced apart bottom walls forming bearing surfaces for the ram, the spacing between the said bottom walls providing an elongated opening in the ram for receiving the ram reciprocating lever mechanism, a pair of inner walls positioned generally vertically and spaced from said side walls and integrally connecting the inner portions of said spaced bottom walls with the ceiling wall of the ram, means provided by the said inner vertical walls for securing thereto the lever mechanism of the shaping machine, said member also being provided with an elongated opening in its ceiling wall between said vertical walls adapted to receive therethrough portions of the lever securing means, said inner pair of walls together with said outer walls and bottom walls forming a double-walled box-like structure at each side of the ram reciprocating mechanism and its connections with the ram effective to resist deflection forces generated in the ram incident to the operation of the machine.

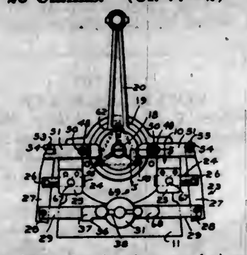
2,278,758
PLASTERBOARD REINFORCEMENT
Beach Frederick Arendt, Park Ridge, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application May 19, 1939, Serial No. 274,558
5 Claims. (Cl. 72—120)

1. In the wallboard art, the combination with a wallboard having a joint reinforcing strip secured adjacent one edge thereof to overlap an adjacent board, of restricted spaced portions of said reinforcement materially weakened trans-



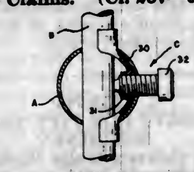
versely of the plane of said board in a manner to retain nearly the maximum strength of said reinforcement transversely of said board and to materially weaken said reinforcement in a plane parallel with the surface of said board.

2,278,759
BORING MACHINE WITH ATTACHMENTS
Ewald A. Arp, Minneapolis, Minn., assignor to Tobin-Arp Manufacturing Company, Minneapolis, Minn., a copartnership consisting of Wilbert J. Tobin, Ewald A. Arp, and Henry S. Kedney, Minneapolis, Minn.
Application August 7, 1941, Serial No. 405,773
28 Claims. (Cl. 77—2)



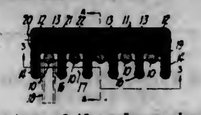
1. In a machine for boring an internal bearing of an article such as a connecting rod, a cutter shaft adapted to be reciprocated and rotated, a cutter carried by said cutter shaft, and means for releasably securing said article in centered position including a backing member adapted to be engaged by a surface of said article, spaced apart levers having clamping surfaces thereof adapted to be releasably engaged against a surface of the article opposite said backing member, and mechanism for simultaneously actuating said levers to cause their clamping surfaces to be pressingly engaged with and released and withdrawn from said article.

2,278,760
SEAT POST MOUNTING
William H. Baumker, Toledo, Ohio, assignor, by mesne assignments, to The Hettrick Manufacturing Company, Toledo, Ohio, a corporation of Ohio
Application October 14, 1940, Serial No. 361,160
6 Claims. (Cl. 287—54)



5. A seat post mounting comprising a tubular backbone having aligned holes in diametrically opposite sides thereof and provided in another side intermediate said aligned holes with a single opening, a seat post extending freely through said aligned holes, and means for holding the seat post in an adjusted position relative to said backbone including a nut within the backbone between the single opening and post and movable back and forth relative thereto, an adjusting element disposed at substantially right angles to and free of the backbone and post, said adjusting element extending freely through the single opening in the backbone, threadedly engaging the nut, and having a portion thereof bearing against the seat post, and means extending through the aligned holes in the backbone and cooperating with said nut to keep it from turning during adjustment of said element.

2,278,761
TRAVELING ELECTRICAL CONTACTOR
Burtis W. Benbow, Benbow, Calif.
Application January 23, 1939, Serial No. 252,260
3 Claims. (Cl. 191—30)



1. In apparatus of the character described, an extended electrical conductor, a sheath of insulating material embracing the conductor, said sheath being formed to provide two longitudinally extending ribs on one side of the same, each rib being secured to an associated section, the inner opposed faces of said ribs being provided with projecting studs whereby the assembly affords spaced openings between the ribs through which a traveling contacting means may make electrical contact with exposed areas of the conductor.

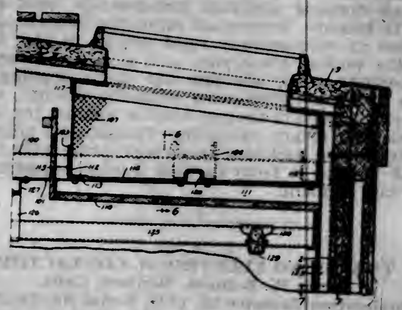
2,278,762
LUBRICANT
Daniel E. Bergen, Phillips, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application January 11, 1941, Serial No. 374,133
5 Claims. (Cl. 252—48)

1. An improved lubricant comprising a mineral lubricating oil having incorporated therein less than 2 per cent of an acylated derivative of an amino heterocyclic sulfur compound containing the sulfur in the ring and the amino group as a side chain having the general formula X—NH—OC—R in which X is a heterocyclic radical containing sulfur in the ring, and R is selected from a group consisting of alkyl, aryl and aryl-alkyl radicals, together with their hydro-, nitro-, halogen and hydroxy derivatives, to improve the properties of the so treated oil.

2,278,763
REFRIGERATOR CAR
Charles D. Bonsall, Pittsburgh, Pa., assignor to Standard Railway Devices Company, a corporation of Delaware
Original application November 16, 1936, Serial No. 111,058. Divided and this application November 2, 1938, Serial No. 238,441
27 Claims. (Cl. 62—17)

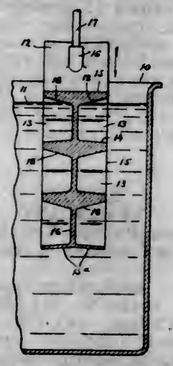
1. In a refrigerator car, a pair of spaced apart rafters extending between the side walls of the car near the roof thereof, a refrigerant container between said rafters, means associated with said rafters to support said container, a partition spaced below said container to provide an air flue therebetween, and a reinforcing member for said container extending transversely to

said rafters and having the lower portion thereof substantially flush with or above the bottom of



said container so as not to reduce the size of said flue.

2,278,764
RUBBER FORMING METHOD AND APPARATUS
Robert S. Boyle, Akron, Ohio
Application August 17, 1939, Serial No. 290,595
2 Claims. (Cl. 18—41)

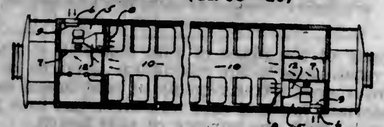


1. The method of dip-forming a multi-pocketed rubber tray which comprises providing a substantially rectangular dipping former having closely-spaced, substantially rectangular individual pockets, plunging said former, cornerwise thereof, in a bath of rubber liquid, with the pocket diagonals substantially vertical, and upper pocket corners slanted upwardly and outwardly to the pocket mouths for air venting, removing, draining and drying the coated former and vulcanizing the coating.

2,278,765
MANIPULATION OF ACETIC ACID
Briant Ferdinand Branting, Petersburg, Va., assignor to The Solvay Process Company, New York, N. Y., a corporation of New York
No Drawing. Application October 21, 1939, Serial No. 300,559
6 Claims. (Cl. 202—39)

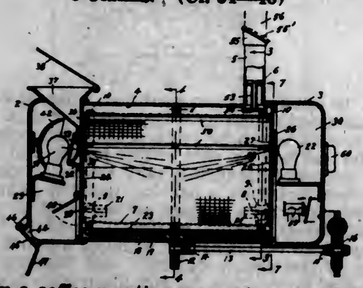
1. In the manipulation of hot concentrated acetic acid, the improvement which comprises effecting such manipulation by apparatus having its surfaces in contact with the hot acetic acid composed of a chromium-nickel-iron alloy containing between 15% and 30% of chromium, between 6% and 14% of nickel, and between 1% and 5% of molybdenum.

2,278,766
AIR CONDITIONING APPARATUS
Robert T. Brimelara, New Dorp, N. Y., assignor to B. F. Sturtevant Company, Boston, Mass.
Original application April 13, 1933, Serial No. 665,260. Divided and this application December 30, 1939, Serial No. 311,800
2 Claims. (Cl. 98—10)



1. A ductless air conditioning system for a passenger vehicle having a central aisle, comprising air conditioning units extending vertically from the floor to above the passage space of and located in opposite diagonal corners of the vehicle on opposite sides of and at the ends of said aisle, said units having diagonally opposite, overhead, bulkhead air discharge outlets in planes extending transverse the vehicle, and having oppositely disposed, recirculated air inlets bordering on and extending in planes parallel to said aisle and perpendicular to said outlets, said inlets being located above said outlets.

2,278,767
COFFEE ROASTER
Walter T. Brophy, Libby, Mont.
Application June 12, 1939, Serial No. 278,698
3 Claims. (Cl. 34—48)

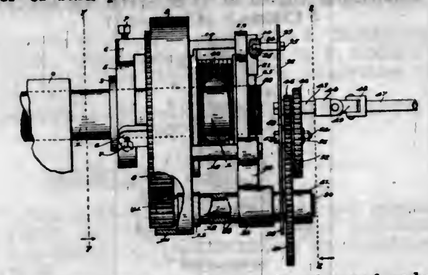


2. In a coffee roasting apparatus, a cylindrical casing, a compartment in each end of the casing, a cylindrical screen rotatably mounted within the casing between the compartments, a power means for rotating the screen, an electric heating element within the casing and positioned below the screen, in combination with a reflector and lamp arranged within one of the end compartments, a photo-electric cell positioned within the other of said end compartments, means for directing light from the lamp downwardly to the coffee, said light being reflected by the coffee to the photo-electric cell and a relay actuated by the photo-electric cell to control the circuit to the electric heating element in accordance with the color of the roasted coffee.

2,278,768
POWER DRIVE FOR PIPE THREADING MACHINES
Percy L. Calvert, Walla Walla, Wash.
Application May 31, 1941, Serial No. 396,120
10 Claims. (Cl. 10—89)

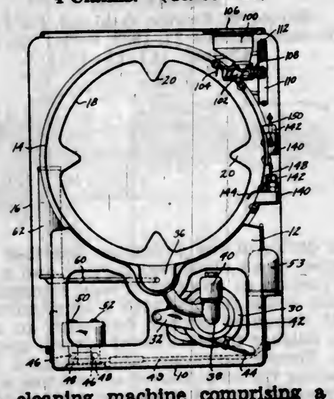
1. In a speed reduction power drive mechanism for a pipe threading machine having a rearwardly disposed stock rotatable about the fixedly held pipe being threaded and provided

with means for holding thread cutting dies and having a plurality of guiding posts for said means, gearing for rotating said stock and having a stock driving shaft extending forwardly and in parallel relation to the axis of rotation of said stock, the combination with a tri-point base plate having one limb mounted on said drive shaft, devices for mounting the remaining two limbs of said plate to a corresponding number of said posts whereby said base plate will



revolve with said stock, a train of speed reduction gears rotatably mounted on and abreast of said plate and one gear terminal of said train being mounted on said stock driving shaft, and a driving pinion mounted on and abreast of said base plate substantially axially of the axis of rotation of said stock and meshing with the remaining gear terminal of said train, and said driving pinion having a flexible shaft adapted for connection with a portable motor to transmit rotary drive to said stock.

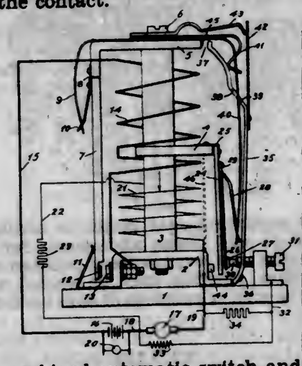
2,278,769
CLEANING MACHINE
Oliver J. Chayle, South Bend, Ind., assignor, by mesne assignments, to American Machine and Metals, Inc., East Moline, Ill., a corporation of Delaware
Application November 30, 1938, Serial No. 243,137
4 Claims. (Cl. 68—17)



1. A cleaning machine comprising a tub, a feeder for introducing a suds producing cleaning agent into said tub, means for initiating the operation of said feeder, and means actuated by pressure from the suds in said tub for rendering said feeder again inoperative.

2,278,770
ELECTRIC REGULATION
John L. Creveling, near Tucson, Ariz.
Application May 6, 1938, Serial No. 206,463
16 Claims. (Cl. 171—314)

1. In a combined automatic switch and regulator of the vibrating contact type, a voltage coil for closing the switch, means operated by said coil for vibrating the regulator contact, a current coil magnetically cooperating with the voltage coil to affect the switch, and movable means whereby the current coil by movement of said movable means mechanically affects the operation of the contact.



2. A combined automatic switch and regulator comprising a magnet core provided with pole pieces at its ends and an intermediate pole piece, a switch operating armature carrying flux between the end pole pieces, a current regulating armature carrying flux between the end pole pieces, and a voltage regulating armature carrying flux between the intermediate pole piece and an end pole piece.

2,278,771
STENCIL FOR AND PROCESS OF PRINTING
Paul Joseph Csaszar, New York, N. Y.
Application November 3, 1938, Serial No. 238,548
1 Claim. (Cl. 101—129)

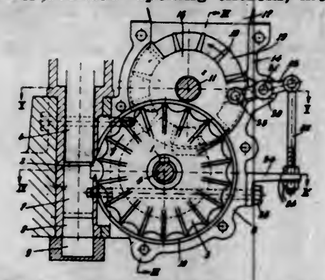


The process of making designs having solid and shaded tones, comprising forming a stencil with cut-out portions encompassing the solid and shaded tones of the color to be reproduced, fixing the stencil to a sheet of fine mesh fabric, fixing to the fabric in the areas corresponding to the shaded tones stencil material having a multiplicity of perforations therein that vary in size in proportion to the density of the tone to be reproduced, and applying color to a sheet through the stencil and fabric to produce said solid and shaded tones.

2,278,772
CENTRIFUGAL FILLING MEANS FOR COMPRESSION MOLDS
Gustav Duden, Dusseldorf, Germany, assignor to Naamlooze Vennootschap: Maatschappij tot Exploitatie van "ten Bosch Octrooien N. V.," Arnhem, Netherlands, a corporation of the Netherlands
Application October 24, 1938, Serial No. 236,775
In the Netherlands October 26, 1937
1 Claim. (Cl. 18—30)

A device for filling a compression mold or like space with a pulverulent material comprising a

casing, a bladed wheel rotatably mounted within said casing, a plate located at each side of said wheel and eccentric thereto, one of said plates having an overflow opening therein, means for



rotatably mounting said plates, a pivoted lever connected to said plates and means for adjustably securing said lever in fixed position whereby said overflow opening may be varied with respect to the axis of rotation of said bladed wheel.

2,278,773
BOUQUET HOLDER
Hugo Erdmann, Johnstown, Pa.
Application March 28, 1940, Serial No. 326,522
1 Claim. (Cl. 47—41)



A bouquet holder comprising a pad adapted to have picks inserted thereinto to which the flowers are to be secured and an elongated handle forming strip of greater length than the pad, said strip being of a width to be grasped by the hand of a user and said strip being of bendable material, said strip having a straight end portion, means for connecting the pad to the front face of said straight end portion, the intermediate portion of the strip extending downwardly and rearwardly from the upper end of the straight end portion, with the other end of the strip bent to form a loop with the lower portion of the intermediate part, said intermediate part forming a hand engaging portion which is located in rear of the pad.

2,278,774
PIE DIVIDER
Herman P. Fest, Los Angeles, Calif.
Application April 24, 1939, Serial No. 269,686
7 Claims. (Cl. 30—114)



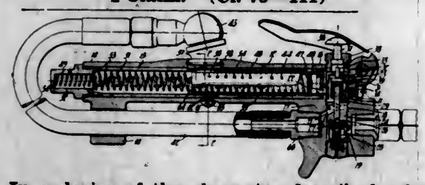
5. In a device of the class described, the combination of a receptacle, a support, means for variously securing the support to the edge portion of the receptacle in such a manner as to allow sliding movement of one relative to the other, and a cutter mounted on the support so as to extend into and to the middle portion of the receptacle.

2,278,775
STRESS TRANSMITTING DEVICE
Aldo Fiorentino, Paris, France, assignor to Willem Lodewijk Cohen, Bloemendaal-Overveen, Netherlands
Application August 31, 1939, Serial No. 292,793
5 Claims. (Cl. 74—57)



1. In a stress transmitting device, a rotatively movable driving member, a driven member consisting of a screw co-axial with said driving member, a ball race arranged in a plane inclined relatively to the axis common to the driving and driven members, a ball abutment also disposed in a plane inclined to said axis and rotatable with said driving member at least one ball in contact with said ball race and ball abutment, and means interposed between said ball race and said driven member for converting the rotations of the driving member into axial translations of the driven member.

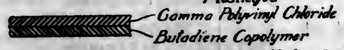
2,278,776
PNEUMATIC GAUGE AND INFLATER MECHANISM
Harold W. Fowler, Oakland, Calif.
Application October 31, 1938, Serial No. 237,814
1 Claim. (Cl. 73—111)



In a device of the character described a body composed of an elongated portion and a lateral offset portion at one end of said elongated portion and being formed with a longitudinal bore in said elongated portion and with an air discharge passage in said lateral portion opening to a side thereof adjacent said elongated portion and having the axis thereof at said side substantially parallel to said elongated portion, an elongated gauge piston reciprocally mounted in said bore, means for preventing relative rotation of said piston in said bore and including a longitudinal slot in said piston and a screw threaded through the wall of said elongated body portion with the head of said screw at the outside of said body and the opposite end of said screw projecting into said bore and engaging in said slot, the axis of said screw being at substantially right angles to and substantially intersecting the axis of said air discharge passage, a conduit connected to said air discharge passage and adapted

for connection to a tire or other object to be inflated, and means attached to the elongated portion of the body supporting said conduit substantially axially of said discharge passage whereby the said conduit is mounted across and covers the head of said screw.

2,278,777
COMPOSITE ARTICLE AND METHOD FOR MAKING SAME
Benjamin S. Garvey and Donald E. Henderson, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application October 7, 1939, Serial No. 298,473
4 Claims. (Cl. 154—2)

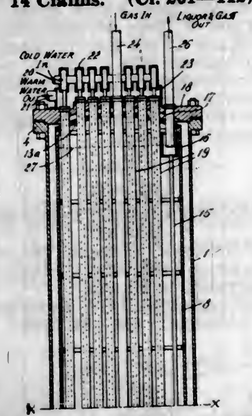


3. The method of adhering plasticized gamma polyvinyl chloride to a copolymer of butadiene and an unsaturated nitrile having the structural formula

$$CH_2{=}C(R){-}CN$$

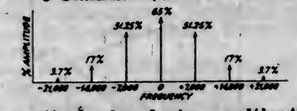
wherein R represents a member of the class consisting of hydrogen and alkyl groups which comprises heating under pressure until vulcanization occurs a vulcanizable copolymer of butadiene and the unsaturated nitrile in contact with the polyvinyl halide surface.

2,278,778
APPARATUS FOR TREATMENT OF GASES WITH SULPHURIC ACID
Samuel W. Grossmann and Donald A. Rogers, Petersburg, Va., assignors to The Solvay Process Company, New York, N. Y., a corporation of New York
Application August 23, 1939, Serial No. 291,510
14 Claims. (Cl. 261—112)



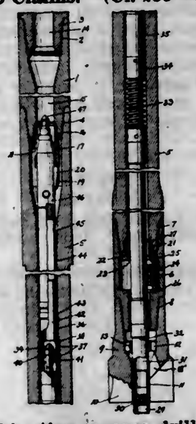
1. Apparatus for reacting a gas with hot concentrated sulphuric acid at high pressure comprising an inner vessel resistant to hot concentrated sulphuric acid, an outer vessel of fluid-tight, pressure-resistant construction which is less resistant to hot concentrated sulphuric acid than said inner vessel and sufficiently larger than the inner vessel to provide a space between adequate for maintaining liquid flow therethrough, means for introducing cold concentrated sulphuric acid into said space, means for causing cold concentrated sulphuric acid to flow in sequence through said space and into the inner vessel, and means for introducing a gas into the inner vessel.

2,278,779
METHOD OF REDUCING MULTIPATH EFFECTS
Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application March 15, 1940, Serial No. 324,052
5 Claims. (Cl. 250—6)



1. The method of reducing multipath distortions which includes continuously modulating the wavelength of a carrier with a single frequency unmodulated current whose frequency is outside the range of signal modulating frequencies, and simultaneously therewith also modulating said carrier with said signal modulating frequencies, transmitting the resultant modulations, receiving the band of transmitted frequencies, heterodyning the received energy to obtain frequency modulated energy of intermediate frequency, demodulating the intermediate frequency energy, and discarding the constant frequency modulation completely for all purposes.

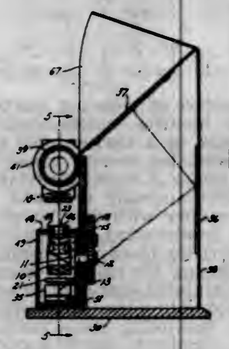
2,278,780
CORE TAKING APPARATUS
George G. Harrington, John C. Stokes, and Bert R. Emrick, Houston, Tex., assignors to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application January 20, 1940, Serial No. 314,756
5 Claims. (Cl. 255—72)



5. In combination, a core drill, a tool adapted to be moved into said core drill from above, and to seat within said core drill, closure means for preventing upward flow through said core drill at all times when said tool is not in place therein thereby to prevent pressure below the core drill from acting upon said tool while it is being inserted into and removed from the well and moved down to and upwardly from the core drill, a sleeve carried by said tool, said sleeve being open at its upper and lower ends, respectively, means for forming a seal about said sleeve when said tool is seated within said core drill, and a check valve

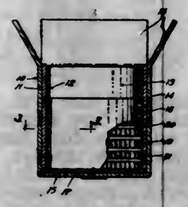
within said sleeve for preventing upward flow therethrough when said tool is in place in said core drill.

2,278,781
OPTICAL SYSTEM FOR CINEMATOGRAPHY
William H. Harrison, Los Angeles, Calif., assignor, by mesne assignments, to Harrison-Craig Company, a partnership composed of T. R. Craig and William H. Harrison
Application February 7, 1939, Serial No. 255,079
4 Claims. (Cl. 88—16.8)



4. A film viewing device which includes: a lens; film guiding means defining an aperture aligned with said lens; a regular polygonal block of a transparent refractive medium rotatably mounted between said lens and said aperture; a film sprocket geared to said block with a one-to-one ratio; a pair of idler rollers cooperating with said sprocket and guide means to lead said film past said aperture in contact with said guide means; a light source; an angularly-positioned mirror; a second angularly-positioned mirror; a single screw mirror adjustment for positioning said angularly-positioned mirrors; a wedge-shaped washer adapted to provide additional adjustment for said second angularly-positioned mirror; a reversing mirror; and a viewing screen.

2,278,782
CONTAINER
Leo M. Harvey, La Canada, and Reuben Hill, Los Angeles, Calif.; said Hill assignor to said Harvey
Application June 23, 1939, Serial No. 280,819
9 Claims. (Cl. 62—91.5)

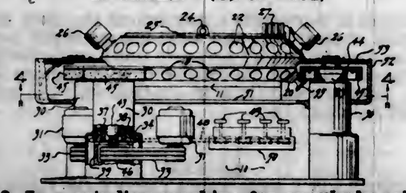


4. A container into which carbon dioxide is to be discharged to solidify, the container comprising a container body, and lining means in the body presenting a multiplicity of frayed fibrous edges for holding the solid carbon dioxide.

2,278,783
PROCESS FOR THE PREPARATION OF POLYVINYL FORMATE
Willy O. Herrmann, Deisenhofen, and Wolfram Haehnel, Munich, Germany, assignors to Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Germany, a corporation of Germany
No Drawing. Application January 17, 1940, Serial No. 314,353. In Germany February 2, 1939
1 Claim. (Cl. 260—87)

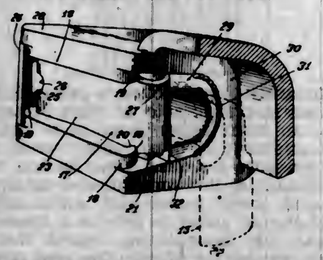
Process which comprises maintaining a reaction mixture consisting of 100 parts by weight of polyvinyl alcohol and 1100 parts by weight of formic acid at 20° C. for several days and isolating a polyvinyl formate having 15% free hydroxyl groups by precipitation with methanol.

2,278,784
GRINDING MACHINE
Joseph H. Hoern, Birmingham, and Edward J. Gabriel, Marshall, Mich., assignors to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application February 13, 1939, Serial No. 256,120
15 Claims. (Cl. 51—134)



8. In a grinding machine for angularly grinding a valve seat, a plurality of grinding means arranged along a circular path of work travel, means for mounting one or more of said grinding means pivotally, a work holder, means for moving said work holder in said path of travel, means for rotating said holder so as to rotate work held therein during said travel, and means for moving one or more of said grinding means in a path normal to the axis of rotation thereof whereby to increase the grinding period for a given time interval, said means comprising a stationary wave-like cam plate and a cam follower pressed thereto attached to said pivotally mounted grinding means.

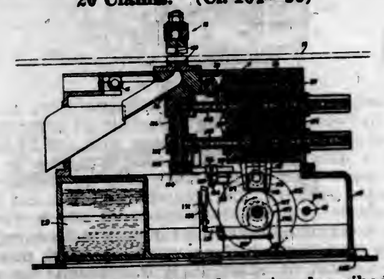
2,278,785
BRAKE HANGER BRACKET AND RETAINER MEANS
Malcolm S. Johnson, Chicago, Ill., assignor to Illinois Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application August 16, 1939, Serial No. 290,511
2 Claims. (Cl. 188—209)



1. A brake hanger bracket and retainer means comprising a bracket provided with vertically

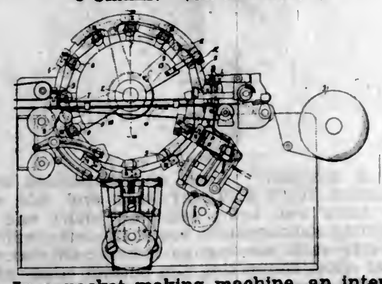
spaced apart jaws; a removable hanger receiving channel member disposed transversely of the bracket at the inner ends of said jaws and adapted to provide shoulders in the bracket forward of the channel, the jaws forward of the shoulders being provided with laterally spaced off-set surfaces; and a U-shaped retainer element adapted to be edgewisely inserted in the bracket between said shoulders and the adjacent off-set surfaces and between the spaced apart off-set surfaces and normally effecting interengaging relation with certain of said off-set surfaces.

2,278,786
FLYING SHEAR
Dwight A. Johnston, Youngstown, Ohio, assignor to McKay Machine Company, Youngstown, Ohio, a corporation of Ohio
Application April 21, 1939, Serial No. 269,269
20 Claims. (Cl. 164—56)



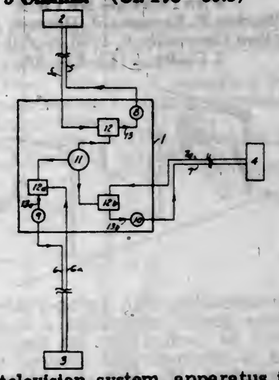
1. In apparatus of the character described, the combination of a base, a carriage mounted for reciprocating movement on said base, a die mounted for reciprocating movement on said carriage, means to impart reciprocating movement to said carriage comprising a positive displacement fluid motor, means to supply a uniform flow of fluid to said motor, means to vary the volume of said uniform flow of fluid, means to impart reciprocating movement to said die comprising a cylinder and piston mounted on said carriage, a cylinder and piston on said base and extendable conduits connecting said cylinders whereby movement of the last mentioned piston results in movement of the first mentioned piston.

2,278,787
PACKET MAKING MACHINE
David Blewes Kidd, Deptford, London, England, assignor to Molins Machine Company Limited, Deptford, London, England
Application March 24, 1941, Serial No. 384,964
In Great Britain May 27, 1940
3 Claims. (Cl. 93—44.1)



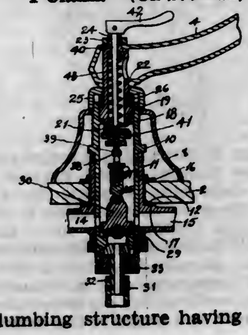
1. In a packet making machine, an intermittently movable conveyor, a supporting member movable with said conveyor and about which packets are formed, a pressing element movable with the supporting member and adapted to engage overlapping portions of wrapping material to retain said portions in the desired overlapping relationship, and a roller adapted to engage said pressing element and to urge it firmly towards the supporting member during a stationary period of the conveyor.

2,278,788
TELEVISION TRANSMISSION SYSTEM
Ulrich Knick, Berlin-Steglitz, Germany, assignor to Fernseh Aktiengesellschaft, Berlin-Zehlendorf, Germany
Application June 14, 1939, Serial No. 279,082
In Germany June 14, 1938
5 Claims. (Cl. 178—69.5)



1. In a television system, apparatus including a source of a master signal, a source of synchronizing signals and a phase comparator, a television scanner remote from said apparatus, means for transmitting said synchronizing signals to said scanner, means for returning said synchronizing signal from said scanner to said apparatus and specifically to said phase comparator, means for applying said master signal to said comparator, means for deriving from said comparator a regulating voltage in accordance with the phase difference between said returning synchronizing signal and said master signal, and means for controlling said source of synchronizing signals with said regulating voltage.

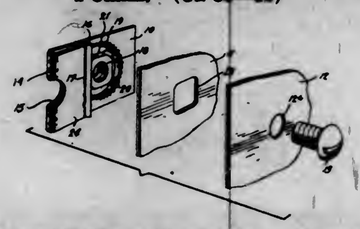
2,278,789
PLUMBING STRUCTURE
Frederick C. Kuhnle, Grand Haven, Mich.
Application November 13, 1939, Serial No. 304,145
1 Claim. (Cl. 277—21)



In a plumbing structure having cold and hot

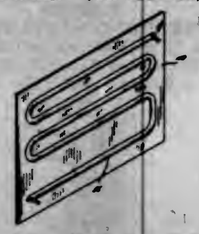
water connections, and a combined cold and hot water discharge spout, a selective cold and hot water control valve structure comprising in combination a housing having therein, a pair of oppositely facing ring like valve seats, a pair of disc like valves for selectively engaging the said seats, each valve having a stem extending toward the other valve and having a ball and socket connection whereby each of said valves are free to assume a tight fluid sealing contact with its respective seat, and one of said valves having a valve stem extending through the top of the water discharge spout and having a camming lever pivotally connected to the last said stem for closing the last named valve substantially as described.

2,278,790
FASTENING DEVICE
Charles T. Langmaid, Detroit, Mich.
Application December 6, 1940, Serial No. 368,762
1 Claim. (Cl. 85—32)



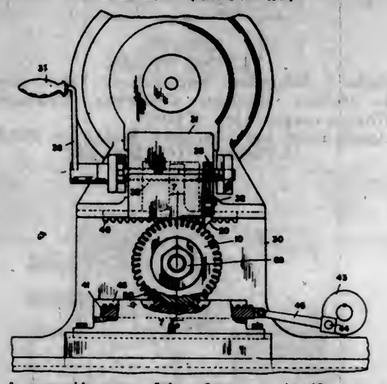
The combination with an apertured panel, of a fastening device comprising a strip of spring metal bent to form a clip, an aperture in said clip, and a clinch-on nut secured in said last named aperture, the said clip being positioned over the edge of the said panel so that the sides of the clinch-on nut engage the sides of the aperture of the panel to effect a locking arrangement, said clip having sufficient spring tension to permit its arms to be spread, so that the assembled clip may be slid over the edge of the panel, and the nut may be snapped into the panel aperture, to effect assembly with the said panel.

2,278,791
METHOD OF FORMING SINUSOIDAL GROOVES
Bennett Lewis, Madison, Ind.
Application April 15, 1940, Serial No. 329,613
3 Claims. (Cl. 153—68)



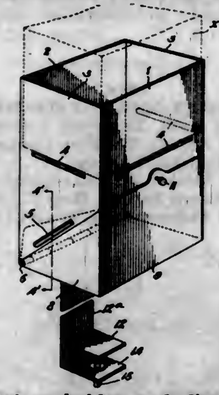
1. A process of forming in a metal sheet a sinusoidal groove having spaced parallel stretches, comprising deforming a plane metal sheet to provide therein grooves extending from one edge of the sheet to the opposite edge, said grooves being spaced at intervals corresponding to the spacing of the parallel stretches of the sinusoidal groove to be produced, and subsequently bringing adjacent material at corresponding ends of the grooves into the plane of the ungrooved portions of the sheet and forming near each said edge of the sheet grooves interconnecting said first named grooves.

2,278,792
GEAR FINISHING MACHINE
Max B. Mentley, Detroit, Mich., assignor to National Broach & Machine Company, Detroit, Mich., a corporation of Michigan
Application March 25, 1940, Serial No. 325,878
4 Claims. (Cl. 90—24)



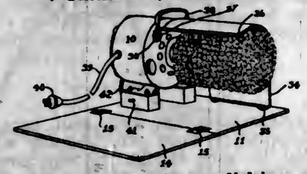
1. A serrating machine for gear teeth comprising a work support for a gear-like work piece, a tool support for a serrating tool, means for providing a relative rolling generating motion between said work support and said tool support, means on said work support for indexing said work gear, and means effective upon indexing of said work gear to move said work gear axially by a predetermined amount.

2,278,793
DISPENSING MECHANISM
John L. Myers, Felicity, Ohio
Application February 7, 1941, Serial No. 377,777
4 Claims. (Cl. 312—43)



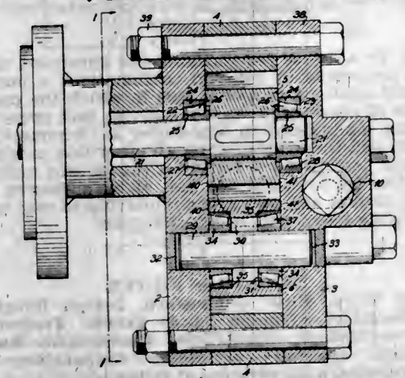
1. A container holder and dispensing device including front and rear walls and side walls, the front wall being relatively short and terminating substantially above the rear wall and the side walls terminating in lower angular marginal edges connecting the bottom edges of the front and rear walls, horizontally arranged internally extending elongated shoulders formed in the front wall and side walls at a point substantially intermediate the length of said walls, elongated projections extending along the lower angular edges of the side walls, and a hinged closure having angular side walls and a relatively long front wall, the angular side walls of said closure being formed with projections adapted to inter-engage the projections at the marginal edges of the side walls, and a support for said device.

2,278,794
POLISHING APPARATUS
Nels H. Nelson, Bellefontaine, Ohio
Application March 18, 1941, Serial No. 383,996
7 Claims. (Cl. 15—36)



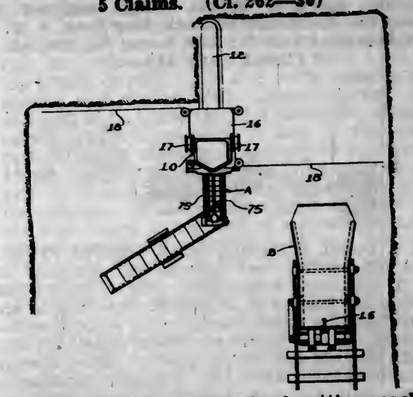
1. A readily portable shoe polishing apparatus adapted to be conveniently carried about by one hand of the user, comprising a thin flat base the top of which is substantially level with a floor on which the base may rest so that a person's foot can rest conveniently partly on the base and partly on the floor adjacent the base, an electric motor mounted upon said base at one side thereof and having a rigid motor shaft projecting horizontally from and supported entirely by the motor housing, said base extending under the projecting end of the shaft and adapted to be stood upon by the user, a polisher detachably connected to the projecting end of the shaft and adapted for instant removal from and attachment to said shaft, the bottom of the polisher and the top of the base having such vertical spacing as to receive the instep portion of a shoe therebetween, and a connection lead extending from the motor.

2,278,795
HYDRAULIC PUMP
James F. Patton, Cleveland, Ohio
Application January 12, 1940, Serial No. 313,636
7 Claims. (Cl. 103—126)



1. In a gear pump, a housing having a pump chamber therein having opposing inner walls, a drive shaft, a drive gear in said chamber driven from said drive shaft, a second gear having recesses with inwardly extending radial flanges at the bottom of said recesses in its opposite sides and mounted in said chamber in intermeshing relationship with said drive gear, the sides of said drive and second gear disposed proximate the inner walls of the pump chamber, a stationary shaft rigidly mounted between said inner walls in said chamber, and means mounting said second gear on said stationary shaft for rotational movement with respect thereto comprising thrust bearing assemblies mounted in the recesses in each side of said second gear to resist axial thrust on said second gear within the pump chamber, each bearing assembly comprising an outer race fixed in one recess of the second gear, an inner race on said stationary shaft and having engagement with the proximate side wall of the pump chamber, and frictionless thrust bearing members mounted between each of the inner and outer races.

2,278,796
SLACK OR CUTTINGS REMOVING ATTACHMENT FOR KERF-CUTTING MACHINES OF THE ROOM AND PILLAR TYPE
Thomas E. Pray, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application October 30, 1940, Serial No. 363,394
5 Claims. (Cl. 262—30)



1. In combination with a kerf-cutting machine including a frame having a cuttings passage therethrough, a motor on said frame having a power coupling member adapted for detachable driving connection with a mining machine truck, and a chain carrying cutter bar in said cuttings passage driven by said motor and adapted to discharge the cuttings at one end of said passage, a cuttings removing device comprising a frame having a conveyer extending therealong, drive means for said conveyer, and means for detachably connecting said conveyer frame to said cutting machine frame so as to be wholly supported by the latter, with one end of said conveyer in cuttings-receiving relation at the discharge end of the cuttings passage of said kerf-cutting machine, said detachable connecting means including a coupling support connectible to said cutting machine frame, said coupling support having a conveyer driving member mounted thereon in position to be engageable with said coupling member, and link means connecting said conveyer frame and said coupling support.

2,278,797
BUILDING CONSTRUCTION
Harold E. Raymond, New Orleans, La.
Application March 6, 1941, Serial No. 382,062
5 Claims. (Cl. 108—1)
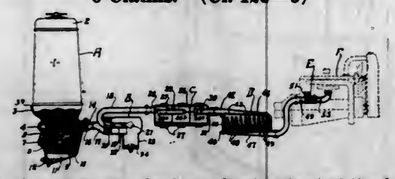
1. An arch roof construction of structural steel

composed of top and bottom members connected by diagonal members, having the central portion of the arch in the form of a parabolic arch with its axis vertical and coincident with the center of the span, and lateral or end portions in the



form of a parabolic curve, the axis of which is horizontal and coincident with the line of springing of the arch, said parabolic curves being so proportioned as to become tangent at their point of intersection.

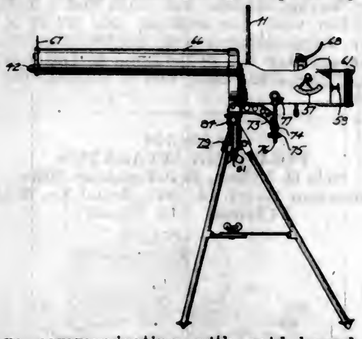
2,278,798
GAS PRODUCER APPARATUS
Aristide Ricardi, Rome, Italy, assignor to Dorothy Mackenzie Seaman, New York, N. Y.
Application July 21, 1938, Serial No. 220,597
3 Claims. (Cl. 123—3)



1. A power producing plant adapted to burn solid combustible fuel therein and designed for use in supplying combustible gas to an internal combustion engine of an automotive vehicle, and comprised of a closed casing made of light metallic plate and having an air intake nozzle for supplying air into the casing, and an outlet opening communicating with the internal combustion engine, said air intake nozzle being provided with an opening therethrough to permit only a predetermined and small volume of air to enter said casing, said outlet opening being controlled by the operation of the internal combustion engine so as to cause the air entering said casing through said nozzle to be drawn through the fuel mass in the casing at a high velocity and in a predetermined direction and to create a restricted diagonal zone of combustion which is exothermic and which is surrounded by combustible forming an endothermic zone, and means to preheat the air before it enters said casing comprising a confined passage through which the air passes which is positioned in close proximity to the exothermic zone of combustion and so as to be heated thereby.

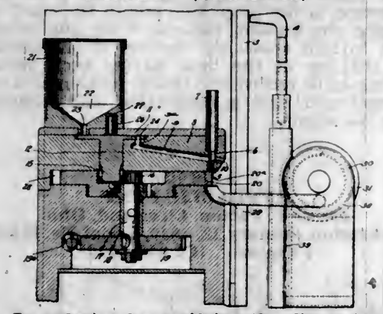
2,278,799
GUN
Aristide Riccardi, Rome, Italy, assignor to Dorothy Mackenzie Seaman, New York, N. Y.
Application October 29, 1938, Serial No. 237,668
3 Claims. (Cl. 124—11)

1. In an air operated gun of the class described, a barrel, an air motor, a source of air under pressure, means connecting said source of air to said motor, means for controlling the flow of air to said motor, means operated by said motor for intermittently supplying air under pressure to said barrel, and means for feeding projectiles to said barrel in position to be expelled therefrom by said air, said feeding means comprising a reciprocable plunger operating in a



passage communicating with said barrel, said plunger serving to close said passage when air is supplied to said barrel thereby preventing escape of air through said feeding means.

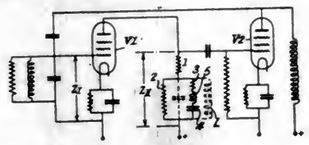
2,278,800
DEVICE FOR VERIFYING THE DIMENSION AND SPHERICITY OF BALLS
Charles Hilaire Henri Rodanet, Neuilly-sur-Seine, France, assignor to Société Anonyme: Etablissements Ed. Jaeger, Levallois-Perret, Seine, France
Application January 18, 1940, Serial No. 314,418
In France February 6, 1939
5 Claims. (Cl. 209—82)



1. In a device for verifying the dimension and the sphericity of balls, in combination: a pneumatic micrometer of the type in which the pressure of air or of a gas is measured, said pressure being maintained in a chamber in communication with the exterior through an orifice, a cylindrical conduit open for constituting said orifice, means for bringing the ball to be measured in said orifice, and means for imparting to said ball a rotary movement in all directions.

2,278,801
BAND PASS FILTER
Noël Meyer Rust, Chelmsford, Joseph Douglas Brailsford, London, and Ernest Frederick Goodenough, Springfield, Chelmsford, England, assignors to Radio Corporation of America, a corporation of Delaware
Application October 1, 1940, Serial No. 359,182
In Great Britain June 8, 1939
13 Claims. (Cl. 179—171)

1. An electric circuit comprising first and second electron discharge tubes, an impedance included in the grid circuit of the first tube, and a second impedance coupling the plate of the first tube to the grid of the second, characterized in that the circuit constants, the impedances and the operating parameters of the tube are so

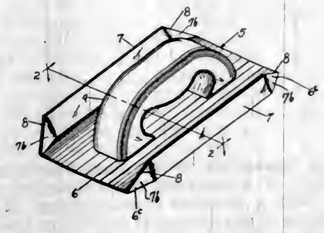


chosen that the coupling impedance between the tubes is reversed and superimposed on and substantially neutralizes the grid circuit impedance of the first tube.

2,278,802
COMPOSITE PRODUCT COMPRISING NATURAL RUBBER AND SYNTHETIC RUBBER AND METHOD FOR MAKING THE PRODUCT
Donald V. Sarbach, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application March 19, 1941, Serial No. 384,142
14 Claims. (Cl. 154—2)

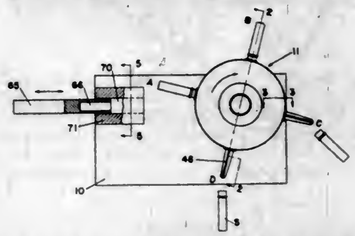
8. The method of making a composite product which comprises securing a natural rubber composition to a rubber-like composition including a copolymer of butadiene and acrylonitrile by interposing between said compositions an intermediate bonding means; said bonding means including a layer, adjacent the natural rubber composition, comprising natural rubber and a copolymer of butadiene and acrylic ester in which the natural rubber constitutes at least 20% by weight of the vulcanizable material, and a layer, adjacent the rubber-like composition, comprising a copolymer of butadiene and acrylonitrile and a lesser amount of natural rubber.

2,278,803
PLASTERER'S FLOAT AND TROWEL
Edward Stabbert, Tacoma, Wash.
Application January 18, 1940, Serial No. 314,397
1 Claim. (Cl. 72—136)



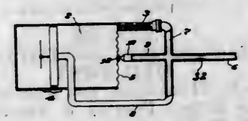
In a trowel, an oblong work blade slightly arched across its working face on its narrow dimension, the extremities of the base being slightly upturned and tapered inwardly at the sides to prevent scuffing the work, and flanges extended angularly upward and outward along the two opposite straight sides of the base, the ends of the flanges being beveled off to facilitate working in corners.

2,278,804
MACHINE FOR TESTING BLASTING CAP SHELLS
Joseph Stuart, II, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application December 22, 1939, Serial No. 310,578
3 Claims. (Cl. 73—51)



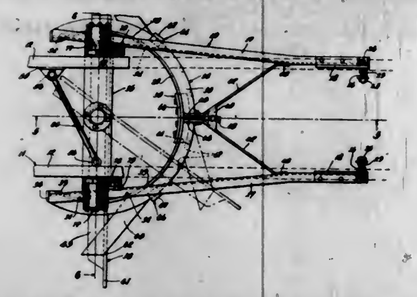
1. In a machine for vacuum inspecting and classifying closed-end tubular shells of relatively greater length than diameter such as blasting caps; the combination of a vertical, cylindrical, rotatable member, mounted upon a horizontal axis, a plurality of elongated fingers each having a bore extending therethrough and extending radially from the periphery of the said member, said fingers being at least longer than half the length of said shells and being capable of receiving and mechanically supporting said shells adapted to be inspected and classified, a feeding means disposed radially of and at the side of said rotatable member, a three-way valve mechanism operatively connected with said member and in successive fluid communication with the bore portion of each elongated finger and valving each finger to a source of vacuum during said finger's periphery rotation from one lateral extremity to the top of the circumferential travel and closing each finger to said source of vacuum during its rotation from the top to the bottom of its travel and venting each finger to a source of air during its rotation from the bottom of its travel to the said lateral extremity, whereby shells are supported by the said fingers during application of vacuum.

2,278,805
RATE OF CLIMB METERS
John F. Taplin, Foxboro, Mass.
Application December 22, 1939, Serial No. 310,497
7 Claims. (Cl. 73—179)



6. An instrument for measuring the rate of change of altitude of an airplane comprising a casing having a chamber therein closed except for a passage through which restricted communication is provided with the outside atmosphere, a device for indicating the instantaneous rates of flow of air through said passage, an artificially created source of air pressure, and means for utilizing said source of air pressure to create a flow of air through said passage into and out of said chamber, as required to maintain a predetermined relationship between the pressure in said chamber and that in the external atmosphere.

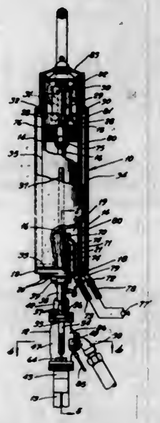
2,278,806
APPARATUS FOR WORKING SURFACES
Clifford W. Tilton, Medina, Ohio
Application August 2, 1940, Serial No. 349,668
6 Claims. (Cl. 37—159)



1. Apparatus for working roads and the like, and for use with an automotive vehicle having a frame, comprising: a supporting frame, adapted to generally underlie the vehicle frame, and supporting road working means, said supporting frame including a pair of spaced-apart elongated rails extending generally in the same direction as the rails of the vehicle frame, each of the set of ends of said supporting frame directed toward the front of the automotive vehicle being apertured; a pair of bracket means, adapted to be rigidly secured to generally transversely aligned portions of the vehicle frame spaced from the front of the vehicle, each of said brackets being adapted to extend downwardly from the vehicle frame and each being apertured adjacent its lower end and this end being positioned adjacent the apertured part of respective supporting frame rails; connecting means, for connecting said supporting frame to said bracket means, comprising pivot means extending through aligned apertures in respective brackets and ends of said supporting frame, each of said pivot means being provided with abutments spaced apart a distance sufficient so that said pivot means can move axially in its apertures, and resilient means constructed and arranged to prevent free axial movement of said pivot means; the other ends of said supporting frame being swingable about the axis of said pivot means toward and away from the road; and each of said pivot means being of such cross-section that it may tilt in the apertures it fits through, so that said supporting frame may be tilted about an axis transverse to the axis about which it is swung.

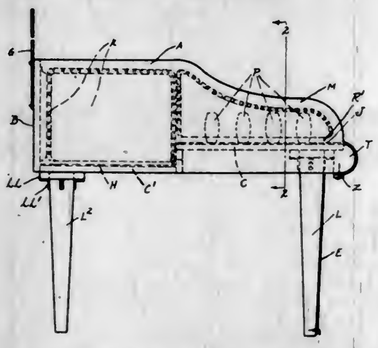
2,278,807
HYDRAULIC SWIVEL HAVING IMPROVED MUD JOINT
Guglielmo R. Tremolada, Los Angeles, Calif., assignor to Emsco Derrick & Equipment Company, Los Angeles, Calif., a corporation of California
Application March 27, 1940, Serial No. 326,259
14 Claims. (Cl. 255—25)

1. In a rotary swivel and mud joint assembly of the character described, the combination of: a swivel body for connection to a suspension means, said body having thrust bearing means therein and a passage for circulation of a cooling medium in heat exchanging relation to said thrust bearing means; a suspension member extending down from said thrust bearing means for connection to the upper end of string of drill pipes; a mud joint connected to the upper portion of said string of drill pipes, said mud joint having a shell with walls forming a passage for circulation of a cooling medium; conduit means connecting said passages of said swivel body and said mud joint, said conduit means being so formed as to permit limited axial movement of said swivel body and said mud joint, and thereby



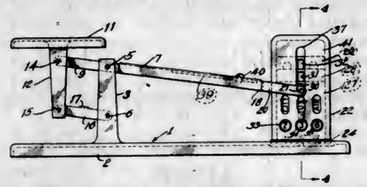
forming a continuous passage including said passage of said swivel body and said passage of said mud joint; and means for circulating a cooling medium through the continuous passage thus formed.

2,278,808
GAME APPARATUS
William H. Tweed, Jr., Peabody, Mass.
Application December 11, 1940, Serial No. 369,611
1 Claim. (Cl. 273—37)



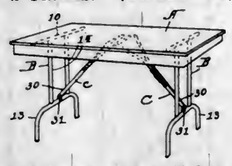
In game apparatus of the class described the combination of a body-section composed of an alley-bed with a rounded front portion, walls at opposite sides of the alley-bed padded in the interior, frames on the side walls to hold the padding, pliable coverings for said padding and frames, spaces between the bases of the frames and the alley-bed, a pliable covering for the alley-bed and the rounded front portion, and means to tighten the same, a pit section comprising a soft covered bottom below the plane of the alley-bed, padded back and sides for the pit section, the sides being extensions of the side walls of the alley-bed, a transverse barrier attached to the front legs.

2,278,809
BALANCE
Carl Cook Veneman, Beverly Hills, Calif., assignor of one-half to Leon M. Glaser, Beverly Hills, Calif.
Application April 6, 1940, Serial No. 328,262
3 Claims. (Cl. 265—48)



1. In a scale, a base, a casing secured to said base, a weight within the casing, the said weight provided with an elongated slot extending in a substantially vertical direction, said casing being provided with a slot in registry with and of greater height than the slot of the weight, a beam pivoted about a horizontal axis and provided with a bifurcated end, a pin carried by the bifurcated end and passed through the slot of the weight and slot of said casing, a platform secured to the opposite end of said beam, and whereby when the platform is moved, the pin is rocked within the said slots to engage and lift the weight upon a given movement of the platform.

2,278,810
FOLDING BRACE
Philip M. Virtue and Julian A. Virtue, Los Angeles, Calif.
Application July 17, 1940, Serial No. 345,920
2 Claims. (Cl. 311—98)



1. A jointed brace for articles of furniture, comprising, sections pivoted together for folding one upon another, the inner end of the first section projecting beyond the pivotal connection with the second section and the first section having bolt receiving openings on either side of said pivotal connection, a spring pressed catch bolt on the second section adapted to engage the body portion of the first section in one of said openings and hold the sections when in fully folded position, and to engage the projecting inner portion of the first section in the other of said openings and hold the sections when in fully extended position, and inclined guides adjacent to said openings in said first section adapted to automatically depress the lock bolt into engagement with said first section in said openings as the two sections approach fully folded or extended positions.

2,278,811
FOUNTAIN COMB
Arthur W. Wallenius, Glendale, Calif.
Application February 8, 1941, Serial No. 377,945
5 Claims. (Cl. 132—13)

5. A fountain comb comprising a main rib provided with a fluid passageway open at one end of said rib and closed at the other end of said rib, solid teeth attached to said main rib as an integral part thereof, a handle connected to said main rib and provided with a hollow to receive a removable flexible fluid reservoir, a removable flexible fluid reservoir within said handle provided with a long flexible spout, extending sub-

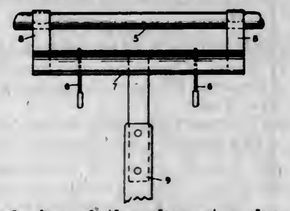


stantially the full length of said fluid passageway, means on said spout to prevent flow of fluid from said fluid passageway to said hollow of the handle, grooves on the opposite faces of the solid teeth in communication with said fluid passageway by means of openings in the main rib.

2,278,812
AMETHYST COLORED GOLD ALLOY
Ludwig Weiss, Frankfort-on-the-Main, and Jakob Spanner, Neu-Isenburg, Germany, assignors to Handy & Harman, Bridgeport, Conn., a corporation
No Drawing. Application July 26, 1940, Serial No. 347,758. In Germany September 28, 1935
7 Claims. (Cl. 148—32)

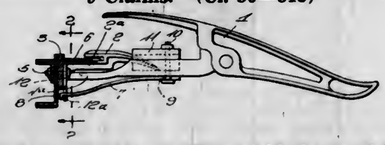
1. A workable amethyst gold alloy capable of being sawed, bored and polished, consisting substantially of 70.6% to 78.1% of gold, 19.4% to 22.4% of aluminum and 0.5% to 10.0% of zinc, the gold and aluminum being present in such alloy in a proportion of substantially 78.5 parts of gold to 21.5 parts of aluminum.

2,278,813
GARMENT HANGER SUPPORT AND TRANSFER DEVICE
Jack L. Wheeler, Brisbane, Calif.
Application May 26, 1941, Serial No. 395,177
2 Claims. (Cl. 294—19)



1. In a device of the character described, a bar having a semi-circular cross section adapted to partially encircle a rod upon which garment hangers are supported, a handle for transporting said bar, and hook members carried by said bar, whereby said bar may be supported in a horizontal position.

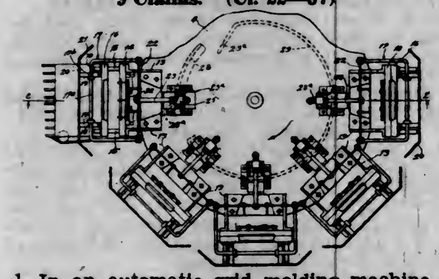
2,278,814
DETACHABLE GRAIN SAVING GUARD
Carl J. Wiersig, Alva, Okla.
Application April 28, 1941, Serial No. 390,792
9 Claims. (Cl. 56—313)



1. In combination with a sickle bar and blade guards projecting forwardly therefrom; grain
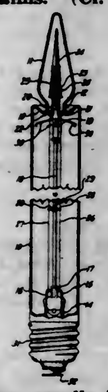
saving guards in advance of the blade guards having shanks extending rearwardly under the blade guards for abutting engagement with the sickle bar, brackets carried by the sickle bar and having U-shaped portions extending downwardly from the sickle bar with their bridges spaced downwardly therefrom and their arms at opposite sides of the shanks, and resilient strips under shanks of the grain saving guards extending longitudinally thereof with their front ends secured to the shanks, said strips extending rearwardly at a downward incline and having hooks at their rear ends engaging over and back of the bridges of said brackets to detachably hold the grain saving guards in place.

2,278,815
CASTING MACHINE
Herbert C. Winkel, Maywood, Ill.
Application August 28, 1940, Serial No. 354,495
9 Claims. (Cl. 22—57)



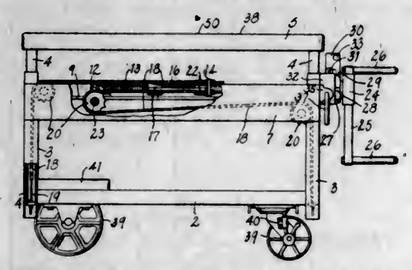
1. In an automatic grid molding machine of the character described, the combination with means for successively ejecting grids from a plurality of molds at a single discharge station, of movable means synchronized with said ejecting means to receive and segregate the grids ejected from each mold from the grids of all the other molds.

2,278,816
INCANDESCENT ELECTRIC LAMP
William P. Zabel, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application February 26, 1941, Serial No. 380,606
14 Claims. (Cl. 176—26)



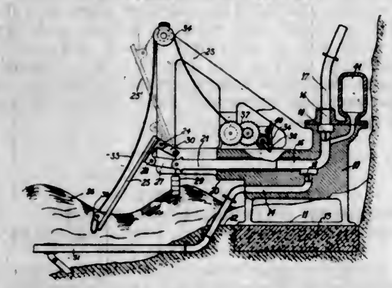
10. An imitation candle lamp comprising an envelope having an elongated body portion and a flame-shaped upper end portion joined together by a short tubular neck portion of constricted diameter, a stem sealed to the lower end of said body portion of the envelope, an elongated support member secured to said stem and extending through said body portion of the envelope, at least the upper end portion of said support member being of glass and terminating substantially within said neck portion of the envelope, support wires sealed to said glass upper end portion of said support member and extending into the upper end portion of said envelope, a filament mounted on said support wires within the said upper end portion of the envelope, and current lead-in conductors sealed through said stem and electrically connected to the ends of said filament.

2,278,817
LIFTING TABLE OR TRUCK
Werner Zeindler, Albion, Mich., assignor to The Service Caster & Truck Company, Albion, Mich., a corporation of Michigan
Application February 24, 1941, Serial No. 380,100
13 Claims. (Cl. 254—4)



8. In a table, bench, or like construction, a frame having uprights, a top adjustable vertically relative to said frame having depending legs of hollow section secured thereto and telescopingly and slidingly engageable with said uprights, a plurality of flexible elevating elements one for each leg, each secured at one end to a leg internally of the leg and extending parallel to the leg and internally of the hollow leg section, and means to simultaneously tension said elements and elevate the top, including a member adjustably shiftable on the frame and connected to said elements and manually actuable rotating means drivingly connected to said last named means to shift the same.

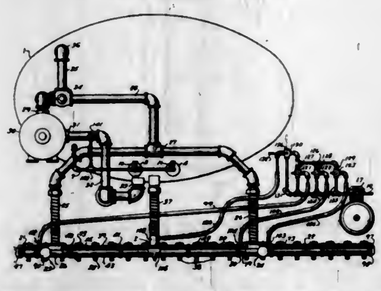
2,278,818
WAVE POWER ACTUATED PUMP
Arthur Edward Zoppa, New York, N. Y.
Application July 1, 1940, Serial No. 343,469
6 Claims. (Cl. 103—66)



1. A device for utilizing wave energy for raising liquid from a lower to a higher level, com-

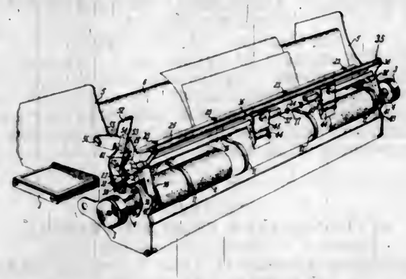
prising a member having a relatively large submerged surface, pivotally suspended at its upper end, a cylinder chamber having a relatively small cross sectional surface, having a suction inlet and a delivery outlet, a piston directly connected to said member movable within said chamber, and means normally maintaining said member in an outwardly inclined position.

2,278,819
SPRAYING APPARATUS FOR DISTRIBUTING MACHINES
Otto N. Gredell, Kansas City, Mo., assignor to Standard Steel Works, Kansas City, Mo., a corporation of Missouri
Application November 20, 1939, Serial No. 305,324
8 Claims. (Cl. 299—34)



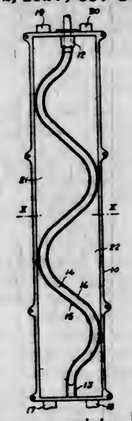
1. In an apparatus of the character described, a spray bar unit including a tubular body having flanged ends, a return tube carried by the flanged ends, and a spray nozzle carried by the tubular body.

2,278,820
PAPER CARRIAGE FOR ACCOUNTING MACHINES
Walter A. Anderson, Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application June 26, 1940, Serial No. 342,547
3 Claims. (Cl. 197—127)



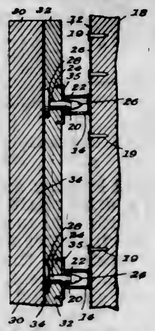
1. In a paper carriage, a platen, a front feed means including a bail movable from a feeding position when engaged with the platen to a paper insertion position spaced from the platen, a rear feed means, bands partially encircling the platen to facilitate introduction of rear fed sheets, means, including a manipulative lever, whereby the bands may be moved toward or away from the platen, means for latching the manipulative lever in one position when the bail is in paper insertion position, and means for releasing the latching means upon movement of the bail to feeding position.

2,278,821
FLUID ENGINE
Carl Wilhelm Henrik Dücker Bennet and Anders Johan Emil Rylander, Stockholm, Sweden, assignors to Louise Gunnila Violet Bennet, Runeborg, Stocksund, Sweden
Application October 14, 1940, Serial No. 361,174
In Sweden October 13, 1939
7 Claims. (Cl. 103—149)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)



1. A fluid engine comprising a casing, a displaceable wall in said casing arranged to perform a uni-directional wave-like movement, and a movable member for cooperation with said displaceable wall, whereby to effect wave-like movement of said wall, said displaceable wall including a series of contiguous elements arranged to reciprocate in said casing and having openings for the reception of said movable member, said movable member being arranged to cooperate with the walls of said opening whereby to impart individual reciprocating movements to said elements, the abutting faces of said elements being bounded by cylindrical surfaces having equal radii of curvature.

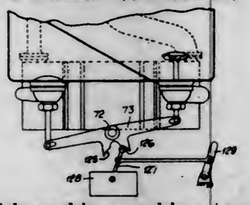
2,278,822
FURRING FOR MOUNTING WALLBOARD
Leonhardt W. Benz, Mobile, Ala.
Application December 18, 1939, Serial No. 309,884
6 Claims. (Cl. 72—118)



1. In a prefabricated furring for mounting architectural panels, a plurality of spacer members adapted to be secured to a wall, ceiling or the like, and a plurality of parallel spaced fastening elements extending transversely of the spacer

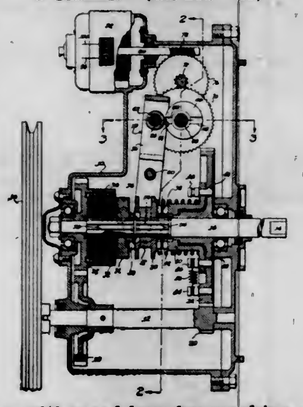
members and secured thereto, said fastening elements being in the form of continuous outwardly facing channel sections having flexible, inturned flanges for receiving a headed fastener.

2,278,823
DISHWASHING MACHINE
Tord Erik Daniel Bilde, Ulvsunda, Sweden, assignor to Bolinder's Fabriks Aktiebolag, Stockholm, Sweden, a corporation of Sweden.
Application February 14, 1940, Serial No. 318,928
In Germany March 2, 1939
6 Claims. (Cl. 103—25)



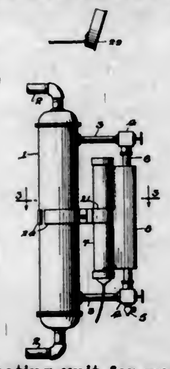
1. In a dish washing machine, two pumps the one for washing liquid and the other for rinsing liquid, a flow control valve for each of said liquids, an electric motor for driving said pumps, a switch for controlling said motor, means for setting said valves so as to open and close them alternatingly, a manually operable control member, and means to connect said control member with the valve setting means and the switch so as to effect actuation of the valve setting means to open one of the valves, only when the switch is set to open the circuit of the motor.

2,278,824
LAUNDRY MACHINE
Hyman D. Brotman, Detroit, Mich.
Application July 19, 1940, Serial No. 346,404
8 Claims. (Cl. 192—40)



1. In a multi-speed laundry machine, an electric motor having a drive shaft driven thereby, a switch in circuit with said motor for controlling the latter, a clutch shifter movable between a pair of extreme positions therefor and normally biased toward one thereof, and means rotatably driven by said shaft and having a pair of cam surfaces one of which is in driving engagement with said shifter for effectuating during a single revolution thereof movement of said shifter from one of said positions into the other of said positions and thence back into said last mentioned one position and the other of which is operatively connected to said switch for opening the latter each time said shifter attains one of said positions.

2,278,825
WATER GAUGE PROTECTION AND ILLUMINATION
Ellington Sumner Brownback, Royersford, Pa.
Application July 5, 1940, Serial No. 344,120
5 Claims. (Cl. 73—293)

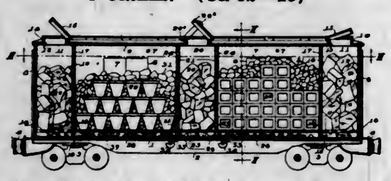


2. An illuminating unit for water gauge tubes, comprising a sheet metal element formed to provide a substantially cylindrical lamp housing provided with a longitudinally extending aperture, the sheet metal upon the opposite sides of said aperture being directed divergently outwardly to provide lateral shields for a water gauge tube between them, a bracket to support said element with respect to a water tube, a lamp positioned in said housing and a transparent cylindrical shield within said housing to protect said lamp.

2,278,826
RECLAIMED RUBBER
Allen D. Castello, Cuyahoga Falls, and Henry L. Dixon, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application September 28, 1939, Serial No. 296,974
18 Claims. (Cl. 260—712)

15. The method of preparing a non-staining reclaimed rubber composition which comprises admixing vulcanized rubber, an adsorbent material, and a water-insoluble soap and thereafter reclaiming the rubber by heating the mixture in the presence of an alkali.

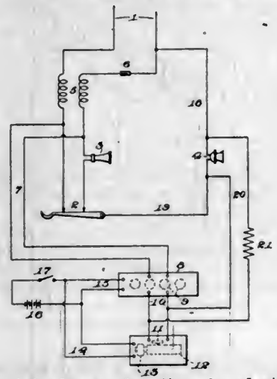
2,278,827
REFRIGERATED FREIGHT VEHICLE
James J. Chiardio, Philadelphia, Pa.
Application January 11, 1940, Serial No. 313,311
5 Claims. (Cl. 62—19)



1. A refrigerator vehicle, comprising end ice bunkers and an intermediate ice bunker separated by independent storage compartments

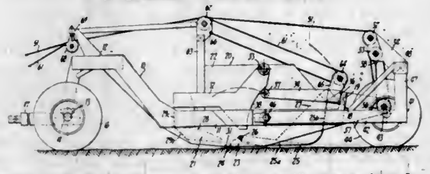
having independent closure-controlled openings providing access thereto, a false apertured flooring in each of said compartments and a false apertured floor in each of said bunkers, the inner walls of said end bunkers and both walls of said intermediate bunker being provided at their upper extremities with inlet apertures, and adjacent to their lower extremities with outlet apertures both above and below said false floorings.

2,278,828
TELEPHONE CONVERSATION RECORDING
James J. Chiardio, Philadelphia, Pa.
Application May 23, 1941, Serial No. 394,775
2 Claims. (Cl. 179—6)



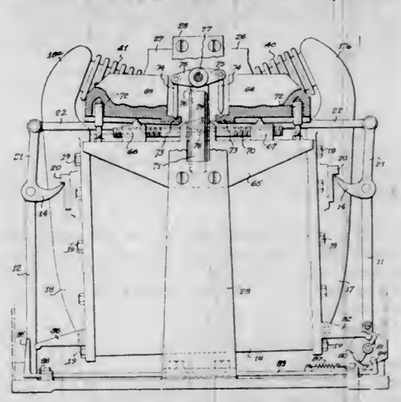
1. In a telephone circuit, a local station comprising the combination of a receiver, with a current-amplifying element in parallel with said receiver and receiving its input current from the line, a transmitter in parallel with said receiver, a sound recording device comprising an electromagneticly actuated element, the output from said amplifying element being connected to said last-named element, a resistance, an auxiliary circuit including said transmitter and said resistance also connected to said electromagneticly actuated element, a source of current, a motor to drive said recording device, and parallel circuits including said current source in common and respectively energizing said amplifying element and said motor.

2,278,829
EARTH MOVING EQUIPMENT
Gerald I. Clark, Sunnyvale, Calif., assignor to Wooldridge Manufacturing Company, Sunnyvale, Calif., a corporation of Nevada
Application July 1, 1940, Serial No. 343,323
1 Claim. (Cl. 37—126)



In an earth mover, a main earth carrying bowl structure having an open front end and a forward cutting blade, said structure including side walls and a hinged bottom movable between loading and discharge positions to effect discharge of material over the cutting blade from the main bowl structure, said hinged bottom including an upwardly extending portion which forms the rear wall of the main bowl structure, wheels serving to support the main bowl structure for traversing movement, a forward apron or auxiliary bowl structure cooperating with the main bowl structure and movable between a position in which it closes the front of the main bowl and elevated positions in which earth may enter or leave the main bowl over the cutting blade, side arms attached to the forward apron and pivotally connected to the side walls of the main bowl structure, said side arms being provided with cam surfaces located outside the main bowl but adjacent the side walls of the bowl, rigid side arms secured to the upper edge of the upwardly extending portion of said hinged bottom, said side arms being located outside the main bowl but adjacent the side walls of the same, said side arms extending in a general horizontal direction for loading position of the hinged bottom, the free forward ends of said last named arms cooperating with said cam surfaces whereby movement of said bottom member from loading to discharge position causes simultaneous movement of the front apron from closed to elevated positions, and means for applying power to said hinged bottom member for movement of the same from loading to discharge positions.

2,278,830
FLUID METER
William S. Clarkson, Ann Arbor, Mich.
Application May 31, 1940, Serial No. 338,014
9 Claims. (Cl. 73—241)

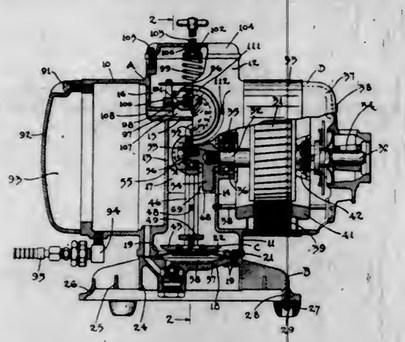


1. In a fluid weight meter, supporting means, an elongated tiltable container, a pair of fulcrum members for and spaced apart longitudinally of said container, a piston in said container providing expansible chambers on opposite sides of said piston, fluid inlet and outlet means for said chambers, valve means operatively connected to and disposed above said container on said supporting means and operable responsive to the tilting of said container to control said inlet and said outlet means of said pair of chambers, said valve means alternately opening one of said chambers to ingress of fluid to move said piston and to open the other of said chambers for egress of fluid therefrom by said piston, said container alternately tilting on said fulcrum members by and in accordance with a differential in fluid weight in said chambers and controlling operation of said valve means, and a pair of weight members operable for opposing the tilting of said container.

2,278,831
PURIFICATION OF ALIPHATIC ACIDS AND ANHYDRIDES
Frank O. Cockerille, Albemarle County, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 21, 1941, Serial No. 384,579
8 Claims. (Cl. 260—541)

1. A process for purifying aliphatic acid anhydrides and aliphatic acids which comprises adding a relatively small amount of yellow phosphorus to a relatively large amount of impure acidic material from the group consisting of aliphatic acid anhydrides and aliphatic acids, contacting the mixture so formed with an oxygen-containing gas, and thereafter rapidly distilling said acidic material from said reaction mixture whereby to obtain the acidic material in substantially pure state.

2,278,832
MOTOR PUMP UNIT
Richard T. Cornelius, Minneapolis, Minn.
Application January 9, 1939, Serial No. 249,851
5 Claims. (Cl. 230—18)

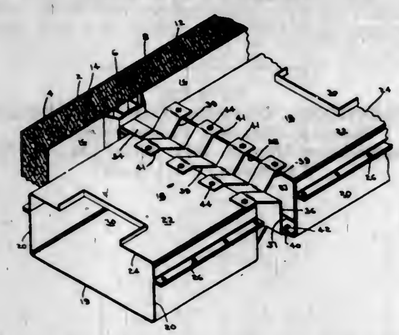


1. In a pump unit, a base, a housing carried by said base and secured thereto, a diaphragm clamped between said base and housing, said housing having a compartment directly over said diaphragm, and a chamber adjacent the same, mechanism within the compartment for operating said diaphragm, an exhaust valve in said base, a pressure regulating valve carried by said housing, a port formed partly in said base and partly in said housing, and extending through said diaphragm, said port connecting said valve with said chamber and a second port in said housing connecting said chamber with said pressure regulating valve.

2,278,833
RUBBERLIKE COMPOSITION CONTAINING NEOPRENE AND POLYVINYL CHLORIDE
Richard A. Crawford, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application September 14, 1938, Serial No. 229,938
5 Claims. (Cl. 260—42)

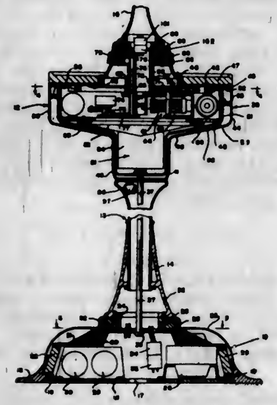
1. A composition comprising the gamma polymer of vinyl chloride, mixed with at least 10% of its weight of a plasticizer therefor, and vulcanized Neoprene homogeneously distributed throughout the composition.

2,278,834
REFRIGERATOR CAR CONSTRUCTION
Charles E. Crede, Chicago, Ill., assignor to Standard Railway Devices Company, a corporation of Delaware
Application January 13, 1940, Serial No. 313,674
7 Claims. (Cl. 108—5.6)



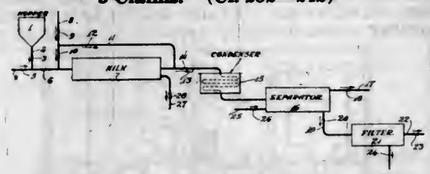
1. Means to support a plurality of refrigerant containers including a carline supported at its opposite ends by spaced apart walls of a refrigerator car and disposed between a pair of said refrigerant containers, said carline having oppositely projecting upper and lower flanges extending outwardly therefrom and secured to said containers.

2,278,835
COMBINED LAMP AND RADIO RECEIVING SET
Daniel J. Crowley, Grosse Pointe, Mich.
Application June 24, 1940, Serial No. 342,167
13 Claims. (Cl. 250—14)



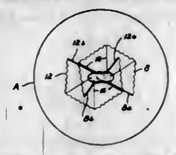
1. In a combined article of furniture and radio receiving set, an article of furniture provided with a top wall having an opening therethrough, a chassis unit for a radio receiving set suspended from the top wall beneath the latter and including an adjustable part, an upright member extending from the chassis unit through the opening in the top wall, a control member rotatably mounted on the upright member at a point above the top wall and connected to the adjustable part for actuating the latter, and a pedestal section having a lamp shade unit at the top thereof and having means at the lower end detachably secured to said upright member.

2,278,836
REACTIVATING CATALYST
Roland B. Day, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application July 31, 1940, Serial No. 348,983
5 Claims. (Cl. 252—242)



1. A process for reactivating carbonized powdered catalyst which comprises dispersing the powdered catalyst in an oxygen-containing gas, subjecting the resultant mixture to combustion in a combustion zone to burn carbonaceous matter from the catalyst, thereby forming a suspension of catalyst powder in gas, removing said suspension from the combustion zone and then cooling the same to below the boiling point of water in admixture with a sufficient quantity of steam to supply, on condensation thereof, an amount of water adequate to separate from said suspension removed from the combustion zone substantially all of the catalyst powder contained in the suspension, separating the water containing the powdered catalyst from the uncondensed gaseous content of said suspension, and finally separating the powdered catalyst from the water.

2,278,837
INCANDESCENT LAMP
Adolphe de Castro, Los Angeles, Calif.
Application October 31, 1940, Serial No. 363,622
2 Claims. (Cl. 176—26)



1. An incandescent lamp including a pair of filaments each having the general configuration of an incomplete circle, the open portions of the two configurations facing in substantially opposite directions with an end portion of one filament within the circle of the other; and a common conductor leading to each of said filaments.

2,278,838
COMPOSITION OF MATTER AND PROCESS FOR PREVENTING WATER-IN-OIL TYPE EMULSIONS RESULTING FROM ACIDIZATION OF CALCAREOUS OIL-BEARING STRATA
Melvin De Groote, University City, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
No Drawing. Application March 11, 1940, Serial No. 323,418
22 Claims. (Cl. 252—8.55)

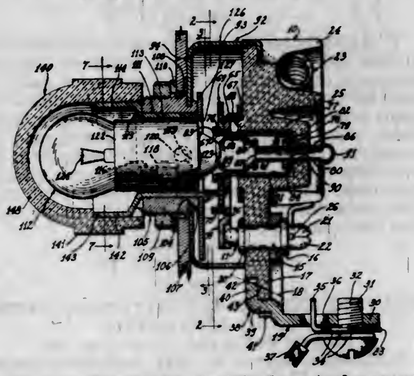
1. A process for preventing water-in-oil type emulsions resulting from acidization of calcareous oil-bearing strata, which consists in introducing into the cognate fluids of a well prior to emergence, a water-soluble, surface-active, alkaline earth-resistant polyglycol ether, which is derived by reacting an alkylene oxide with a member of the class consisting of water-insoluble substituted aromatic and hydroaromatic compounds containing at least one hydroxyl radical attached to a nuclear carbon atom, and at least one nuclear substituent selected from the class consisting of a hydrocarbon radical containing at least four carbon atoms, a ketonyl radical containing at least four carbon atoms; a substituted hydrocarbon radical containing at least four carbon atoms and interrupted at least once by an oxygen atom; an acyl radical containing at least four carbon atoms; and an oxyalkyl radical forming an ether linkage with a nuclear carbon atom, the alkyl part of such oxyalkyl radical containing at least four carbon atoms.

2,278,839
ROTOR FOR VIBRATORS
Forrest G. Douglass, Los Angeles, Calif., assignor to Viber Company, a corporation of California
Application March 29, 1941, Serial No. 385,962
14 Claims. (Cl. 259—1)



1. A rotor for an eccentric weight vibrator comprising a rotatable casing, and a loose weight within said casing adapted to frictionally engage the inside of said casing when held against it by the centrifugal force developed during high speed rotation of said rotor, the center of gravity of said weight when frictionally held to the casing being outside the axis of rotation of said casing.

2,278,840
ELECTRICAL CONTROL APPARATUS
Harry A. Douglas, Bronson, Mich., assignor to Kingston Products Corporation, a corporation of Indiana
Substituted for abandoned application Serial No. 30,277, July 8, 1935. This application November 20, 1939, Serial No. 305,376
3 Claims. (Cl. 177—311)



1. In combination in electrical control apparatus: a switch including a movable switch member and a stationary contact; means providing a socket for an incandescent electric lamp; a carrier; thimble-shaped means carried by said carrier and having an abutment at its open end engaging said movable switch member, and hav-

ing an aperture in its closed end; contact means disposed within said thimble-shaped means, having a shouldered portion, and a portion extending through the aperture in the closed end of the said thimble-shaped means; spring means interposed between said contact shoulder and the closed end of said thimble-shaped means, said spring means being constructed and arranged to bias said movable switch member toward said stationary contact, and said contact means toward the incandescent electric lamp; and means on said contact means acting to hold said thimble means to said carrier.

2,278,841

DRILL MUD TREATING

Thomas H. Dunn, Tulsa, Okla., assignor to Stanolind Oil & Gas Company, Tulsa, Okla., a corporation of Delaware

Application November 22, 1940, Serial No. 366,614
9 Claims. (Cl. 252—8.5)



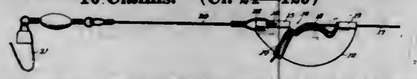
1. A drill mud including an amount of water-soluble hexaphosphate dinitride sufficient to reduce markedly the viscosity of said drill mud.

2,278,842

ATTACHMENT FOR FISHING LINES

Charles Fernstrom, Oak Island, Minn., assignor of one-half to Carl A. Johnson, Louis Aanerud, and George Stokes, all of Chicago, Ill., jointly

Application April 21, 1941, Serial No. 389,517
16 Claims. (Cl. 24—129)



4. A connector for fishing lines and hooks comprising laterally spaced body members connected adjacent their ends by cross members, said cross members being disposed in planes at substantially right angles to the planes of said body members, there being an opening through one of said cross members, and spacing means between said body members intermediate and spaced from said cross members, one end of said body adjacent one of the cross members being reduced to provide a line hitch anchor.

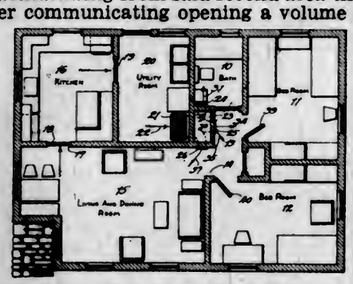
2,278,843

HEATING AND AIR CONDITIONING METHOD AND APPARATUS

Rogers Follansbee, Evanston, Ill.

Application March 31, 1941, Serial No. 386,057
17 Claims. (Cl. 98—33)

1. A method of air conditioning an enclosure which is divided into separate areas by the usual partition structures and which areas communicate with each other through openings in the partition structures, which method comprises discharging a forced stream of conditioned air into a first area of the enclosure to cause the resulting excess air from said first area to spill out of said first area through one of said openings into a communicating second area, simultaneously discharging another forced stream of conditioned air into said second area to entrain and mix with said spilled out air in said second area, withdrawing from said second area through another communicating opening a volume of air



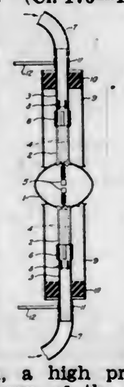
substantially equal to the total volume of conditioned air discharged in said streams, moving said volume of air through another area of said enclosure which communicates with said second area to condition said other area, and conditioning said volume of air after said movement through said other area, said conditioned air thereafter being forcably discharged to produce said forced streams in said first two mentioned areas.

2,278,844

COOLING MEANS FOR DISCHARGE LAMPS

Victor James Francis, North Wembley, and George Hulbert Wilson, Wembley Park, England, assignors to General Electric Company, a corporation of New York

Application September 11, 1940, Serial No. 356,390
In Great Britain September 13, 1939
2 Claims. (Cl. 176—122)



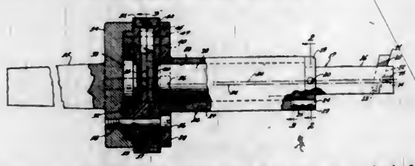
1. In combination, a high pressure gaseous electric discharge lamp of the type requiring forced cooling for proper operation and a cooling system therefor, said lamp having a spherical envelope and elongated exposed stems projecting therefrom, said stems being mounted in opposing positions on said envelope, said cooling system comprising a metal tube removably fastened to one of said stems and another tube supported by said metal tube about said stem and said metal tube and terminating adjacent said envelope, the wall of said metal tube being perforated at the part thereof in said surrounding tube to permit the flow of cooling gas into said surrounding tube and directly over the surface of said stem and said envelope.

2,278,845

RETRACTING BORING DEVICE

James B. Giern and Anders P. Anholtt, Detroit, Mich.

Application January 8, 1940, Serial No. 312,804
7 Claims. (Cl. 77—58)



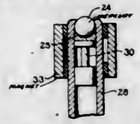
1. In a retracting boring device, a rotatable tool mount having a bore with an axis decentered relatively to the center of the axis of rotation thereof, a tool holder having a portion rotatably engaging said bore, a boring tool secured to said tool holder, expansible means for rotating said tool holder relatively to said bore in a direction to project said boring tool into its boring position, and manually controlled means for rotating said tool holder in another direction to retract said boring tool from its boring position, the axis of rotation of said tool holder in said tool mount having a shorter radius to the cutting portion of said tool than the radius from the axis of rotation of said tool mount to said cutting portion.

2,278,846

ELECTRIC CONTACT APPARATUS

Johannes Goerth, Berlin-Grunewald, Germany, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany, a corporation of Germany

Application November 18, 1939, Serial No. 305,185
In Germany November 30, 1938
6 Claims. (Cl. 200—152)



1. An electrical contact member comprising a hollow cylindrical arm, a globule of mercury mounted within said hollow arm at one end thereof and having a portion thereof projecting from said arm, a retaining lip for holding said globule of mercury to said arm, and a yieldably urged piston within said arm for urging said globule of mercury against said retaining lip.

2,278,847

PROCESS FOR THE SOLIDIFICATION OF A LIQUID FUEL ALLOWING THE TOTAL REGENERATION OF THE SAME FROM THE SOLID COMBUSTIBLE

Lazzaro Alfredo Greguoli, Milan, and Renato Donati, Rome, Italy

No Drawing. Application March 20, 1940, Serial No. 324,972. In Italy April 22, 1939
1 Claim. (Cl. 44—7)

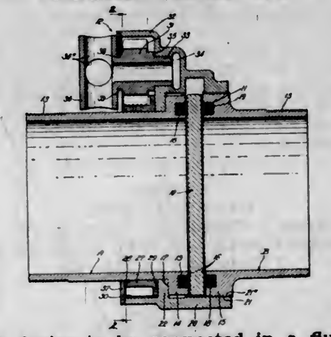
A process for preparing a solid combustible from a liquid fuel in such physical condition that said liquid fuel may be recovered integrally from said solid combustible, which consists in first producing a gelatinizing stage by cold treating the liquid fuel under strong agitation with an insoluble nitrogen containing substance chemically inert with respect to said liquid fuel, comprising gluten, thereafter, in a second stage treating the resulting gelatinous mass formed in the first stage by mixing said mass under agitation, with a metallic salt rich in oxygen, comprising a basic chromium sulphate, and subsequently allowing the finally resulting mass to rest for a predetermined period of time while preventing access of air to said mass during said period of time.

2,278,848

LINE BLIND

Leland S. Hamer, Long Beach, Calif., assignor of one-fourth to Paul A. Dewhirst, Los Angeles, Calif.

Application December 20, 1939, Serial No. 310,184
9 Claims. (Cl. 251—167)



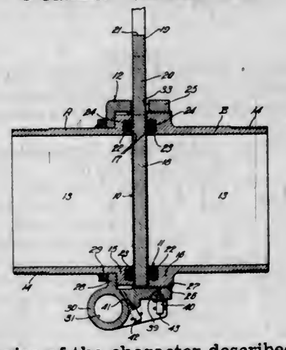
1. A device to be connected in a fluid handling line comprising two tubular sections to be connected in the line in end to end relation, the sections being related for relative longitudinal movement, a plate inserted between said ends of the sections, a rotatable member arranged around the sections, cooperating threads on one section and the member, a ring gear surrounding and secured to the other section, a pinion rotatably supported by the member to mesh with the gear, and means including the gear for holding the member against longitudinal movement relative to said other section whereby rotation of the member by operation of the pinion moves the packing into and out of sealing engagement with the plate.

2,278,849

LINE BLIND

Leland S. Hamer, Long Beach, Calif., assignor of one-fourth to Paul A. Dewhirst, Los Angeles, Calif.

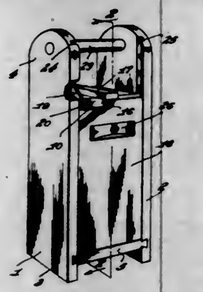
Application December 20, 1939, Serial No. 310,185
5 Claims. (Cl. 251—167)



1. A device of the character described for connection in a pipe line including two tubular sec-

tions arranged in end to end relation to define a fluid passage and related for relative longitudinal movement, means for connecting the sections with spaced members of the pipe line, a plate having an imperforate disc-like portion adapted to be inserted between the opposing ends of the sections to extend across said passage, and means for moving the sections toward and away from one another to clamp the plate between said ends and to free the plate for removal, said means including flanges on said ends of the sections, a rotatable sleeve in surrounding relation to the flanges, the sleeve having a transverse slot in its wall for passing said portion of the plate to and from the position between said ends of the sections, the edge of said plate portion being engageable with the internal surface of the unslotted part of the sleeve to center said plate portion between said ends, an inturned lip on the sleeve having one side bearing against the outer end of the flange of one section, a collar on said section engaging the other side of the lip, and cooperating threads on the sleeve and the flange of the other section.

2,278,850
DYNAMITE BOX
John V. Hammond, Spangler, Pa.
Application February 26, 1940, Serial No. 320,939
2 Claims. (Cl. 224—20)

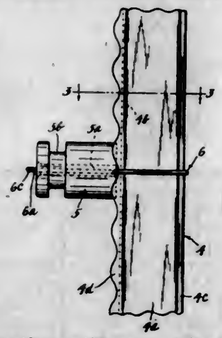


2. A dynamite box having a top wall formed with a slot, a front closure for the box, a latch member having a guide element slidable in the slot, said latch member having a notch and said top wall having spaced slots, and a resilient band extending between the top wall and the latch member and being engaged in the notch and the slots and normally urging the latch member into a position with its forward end portion overhanging the front closure and latching said front closure in place.

2,278,851
LUBRICATING OIL COMPOSITION
Eric S. Hillman, Oakland, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application September 9, 1939, Serial No. 294,207
5 Claims. (Cl. 252—53)

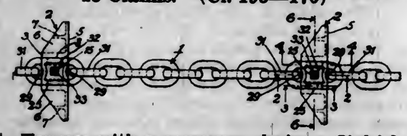
1. An anti-wear lubricant comprising a mineral lubricating oil containing dissolved small amounts of a free aliphatic unsaturated ketone having at least 10 carbon atoms and an anti-wear compound which is substantially non-corrosive under lubricating conditions, and contains as its active ingredient a semi-metallic element capable of forming with bearing metals alloys having melting points substantially lower than said metals.

2,278,852
ELECTRICAL INSULATOR ATTACHMENT DEVICE
Sylvester T. Hoffman, Sleepy Eye, Minn.
Application December 16, 1939, Serial No. 309,593
1 Claim. (Cl. 174—158)



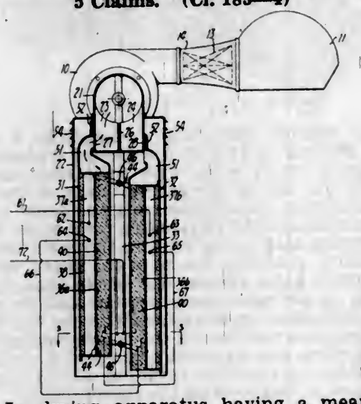
The combination with a post having a series of spaced projecting portions longitudinally thereof, of an electrical insulator having an electrical conduit attaching portion on the exterior thereof and having an aperture therethrough, and an element made of spring metal and having a post encircling portion, said element also having a pair of elongated arms extending from said post encircling portion, the outer ends of said arms being bent outwardly away from each other substantially at right angles to said arms, the outwardly bent end of each arm being of less length than the diameter of the aperture through said insulator, said element being expansible to slip longitudinally along said post and past said spaced projecting portions thereof and also being compressible to bring its arms toward each other to grip said post between spaced projecting portions of the post to prevent longitudinal movement of said element on said post, and said arms further being movable toward each other to permit their insertion through the aperture in said insulator, the inherent expansibility of said element being such as to spread the oppositely bent ends of said arms to prevent said insulator from slipping off of said arms, and the diameter of the aperture through said insulator being such as to maintain said arms in closely spaced relation and to constrict the post encircling portion of said element to prevent said post encircling portion from slipping past the projecting portions of said post.

2,278,853
CONVEYER FLIGHT
Hill Hudson, Tacoma, Wash., assignor of one-half to Moline Malleable Iron Company, St. Charles, Ill., a corporation of Illinois; Nancy Elvira Hudson executrix of said Hill Hudson, deceased
Application June 10, 1940, Serial No. 339,599
15 Claims. (Cl. 198—176)



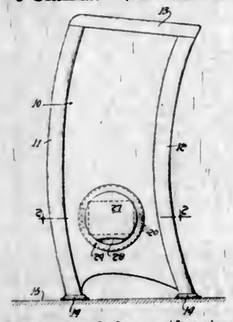
1. For use with a conveyer chain, a flight having laterally extending upstanding portions separated by a cavity, said cavity having at each side thereof, adjacent said upstanding portions, bottom depressions, a link extending through said cavity, said link having downwardly enlarged portions penetrating said bottom depressions, and means for holding said link in position between said upstanding portions, with said link lying in a generally horizontal plane.

2,278,854
DRYING APPARATUS
Clyde L. Hunsicker, San Francisco, Calif.
Application October 30, 1939, Serial No. 301,989
5 Claims. (Cl. 183—4)



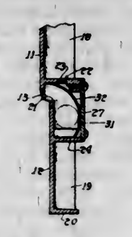
2. In drying apparatus having a means for discharging air for drying purposes, a pair of moisture absorbing units for selective alternate association with said discharging means, each unit comprising a conduit for passage of air and moisture absorbing material within the conduit, means for causing a flow of air through the apparatus to said discharging means, and means mounting said units in counterbalanced relation, whereby the higher of said units is in operative relation with said discharging means and the lower of said units is out of operative relation with said discharge means, the relative positions of said units being controlled by the relative weights of said units, said apparatus also including regenerating means active with respect to each of said units when in its lowered position.

2,278,855
END STANDARD FOR THEATER CHAIRS
Leo Jiranek, New York, N. Y., assignor to Heywood-Wakefield Company, Gardner, Mass., a corporation of Massachusetts
Application July 8, 1940, Serial No. 344,339
6 Claims. (Cl. 240—4)



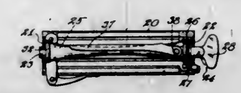
4. An end standard for a theater chair or the like embodying therein an upright body portion having an opening therein, a housing disposed upon one face of said body portion and having an open front communicating with the opening in the body portion, a shade disposed upon the other face of said body portion and covering said opening and having an eccentrically positioned opening therein for the passage of light therethrough, and means for attaching said housing and said shade to said upright body portion, said attaching means being capable of manipulation to permit a turning of the shade about its axis into different angular positions.

2,278,856
END STANDARD FOR THEATER CHAIRS
Leo Jiranek, New York, N. Y., assignor to Heywood-Wakefield Company, Gardner, Mass., a corporation of Massachusetts
Application July 8, 1940, Serial No. 344,340
8 Claims. (Cl. 240—4)



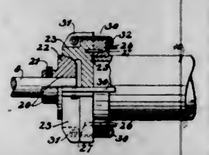
1. An end standard for a theater chair or the like embodying therein an upright body portion including a lower end part and a part above and spaced laterally outward from the outer face of said lower end part, the juncture of said two parts being formed to provide an opening for the passage of light therethrough, means on the inner face of said body portion providing a casing having parts disposed above and below said opening, a source of light in said casing below said opening and a reflector in said casing having a portion above said opening to direct light from said source downwardly and outwardly through said opening.

2,278,857
HAIR WAVING APPLIANCE
Gustav Kepler, Chicago, Ill.
Application June 16, 1941, Serial No. 398,359
10 Claims. (Cl. 132—33)



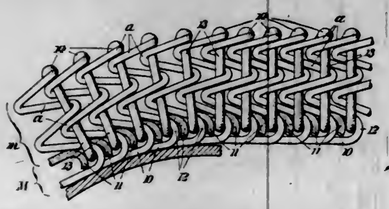
10. The combination with a spool for a hair waving appliance formed with spaced bearing receptacles, the spool carrying a hair retainer formed with opposed ears at one end, the ears overlapping the opposite sides of the spool near one end thereof and being pivotally secured to the spool by rivet means; of a cap fitting over said end of the spool, and opposed stems extending inwardly from the inner edge of the cap in line with said ears and overlapped by the same, said rivet means also securing the stems for the retention of the cap to the spool.

2,278,858
APPARATUS FOR THE PREPARATION OF CAST RESINS
Reuben T. Fields, Arlington, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application September 9, 1939, Serial No. 294,049
11 Claims. (Cl. 18—26)



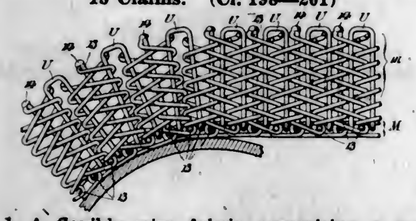
9. In an apparatus for the preparation of tubing of cast synthetic resin and comprising a mold tube and means for supporting said mold tube in horizontal position and rotating same about its axis, the combination of a mold tube, a sealing head, means for positioning and holding said sealing head with one face tight against one end of said mold tube, the opposite face of said sealing head being provided with a tapered bearing surface concentric with respect to the axis of said mold tube when said sealing head is held in position against said end of said mold tube, a horizontally and rotatably mounted shaft, a collar fixed on said shaft and having a tapered bearing surface concentric with respect to the axis of said shaft and engaging said tapered bearing surface of said sealing head, and spring means exerting a thrust axially upon said shaft whereby said bearing surface of said collar and said sealing head are brought into engagement.

2,278,859
FLANGED WIRE FABRIC
Ernest Linwood Blackburn, Audubon, N. J., assignor to Korb-Pettit Wire Fabrics & Iron Works, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application October 29, 1938, Serial No. 237,659
10 Claims. (Cl. 198—201)



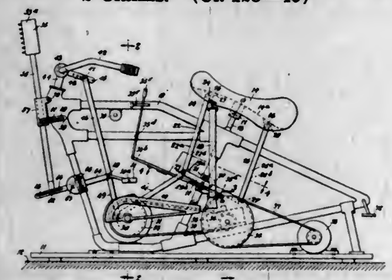
1. A flexible wire fabric comprising a main body portion formed of coiled wires, and pivot wires by which the coiled wires are interconnected in said main body portion against separation lengthwise thereof, whereby lengthwise extension of said main body portion is prevented, while said coiled wires are free to move relative to one another for flexure of the fabric, said fabric also having a marginal flange comprising certain of the main body wires bent and prolonged to one side of said main body portion at an angle relative thereto, and successively interconnected by the pivot wires in said flange with freedom to separate lengthwise of the fabric when the latter flexes away from the flange, whereby lengthwise extension of said flange is permitted.

2,278,860
FLANGED WIRE FABRIC
Ernest Linwood Blackburn, Audubon, N. J., assignor to Korb-Pettit Wire Fabrics & Iron Works, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application October 29, 1938, Serial No. 237,660
13 Claims. (Cl. 198—201)



1. A flexible wire fabric comprising a main body portion formed of a series of transversely extending coiled wires with their end portions bent to one side of the general plane of the fabric to form an outstanding marginal flange therefor; and transversely extending pivot wires interconnecting said coiled wires in the main body of the fabric to permit flexure of the latter, each of said pivot wires having one of its ends terminating in the main body portion and its other end terminating in the flange whereby the laterally bent end portions of the corresponding wire convolutions are accorded a freedom for relative movement that permits variation of said marginal flange in length when the fabric flexes.

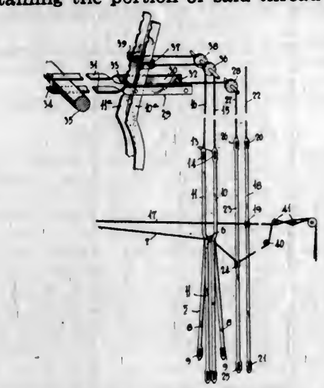
2,278,861
EXERCISING HORSE
Myles John Burke, Jersey City, N. J.
Application June 12, 1940, Serial No. 340,001
2 Claims. (Cl. 128—49)



1. In a device of the class described, a frame, a long bearing pivotally mounted on said frame and adapted to slidably and non-pivotally support a rod of a massaging element, a rod for a massaging element slidably and non-pivotally mounted through said bearing, an oscillating lever having a slot extending in a direction which is approximately at right angles to said rod and radially of its point of oscillation, a pintle mounted on said rod and engaging in said slot by which oscillations of said lever will reciprocate said rod, whereby said bearing may be moved to various pivotally fixed positions to move said pintle along said slot while the direction of sliding of said rod is changed.

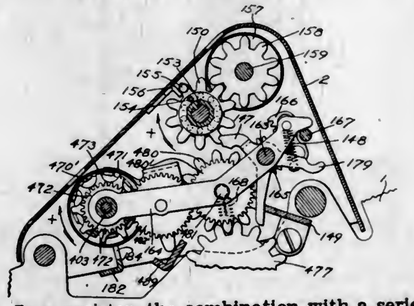
2,278,862
LOOM
Octave P. Caron, Danielson, Conn.
Application June 25, 1941, Serial No. 399,703
8 Claims. (Cl. 139—51)

1. Weaving means comprising a doup heddle having an eye to receive a doup thread, a jumper heddle having an eye to receive a ground thread, a pair of lifting standards associated with the doup heddle, auxiliary means positioned between the jumper heddle and the doup heddle and engageable with the doup thread for constantly maintaining the portion of said thread adjacent



the jumper heddle in positions always lower than the eye of the jumper heddle, and means for alternately raising and lowering said standards and for simultaneously raising or lowering said auxiliary means with either one of said standards.

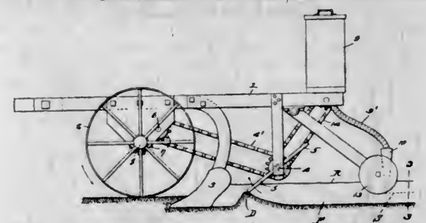
2,278,863
REGISTER
George C. Chase, South Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware
Application March 1, 1940, Serial No. 321,732
10 Claims. (Cl. 235—63)



1. In a register, the combination with a series of wheels adjustable to represent digit values, a series of zero stops adjustable into position to arrest the rotation of said wheels, a forwardly and reversely rotatable drive shaft, a series of value storage gears yieldably connected to said shaft, and a series of zero stops adapted to arrest rotation of said gears of an oscillatory frame, transmission gearing mounted on said frame and adapted in one oscillated position of the frame to connect said storage gears with said digit value wheels for relative directions of movement which upon rotation of the drive shaft in a given direction will bring the storage gears to zero against the second-named stops, and upon rotation of the drive shaft in the opposite direction will bring the wheels to zero against the first-named stops, and a settable device controlling the oscillated position of said frame.

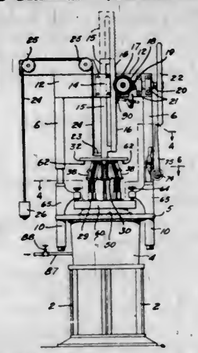
7. In a register having differential actuating means, an accumulator comprising a shaft, numeral wheels mounted thereon, and direct wheel to wheel tens transfer gearing, and clearing devices including yieldably driven gears and zero stops for said numeral wheels; an adjustable frame mounted upon the numeral wheel shaft, transmission gearing mounted on said frame and adapted to connect the accumulator with the actuating means or alternatively with the clearing gears in accordance with the adjusted position of said frame, said transmission gearing including gears individually displaceable to counteract the transfer of partial digit values in said accumulator, and means for aligning said displaceable gears to provide for the transfer of said partial digit values, the parts being so designed that adjustment of the frame will cause pivotal movement of the displaced gears about the numeral wheel shaft in transfer counteracting position.

2,278,864
METHOD OF AND MEANS FOR PLANTING
Herman M. Christensen, Concordia, Kans.
Application December 19, 1940, Serial No. 370,890
5 Claims. (Cl. 111—14)



1. The herein described method of planting which includes the step of opening a furrow, forming transverse dams in the furrow, and thereafter planting a row of seeds in a side of the furrow a substantial distance above the bottom of the furrow and below the top of the furrow ridge.

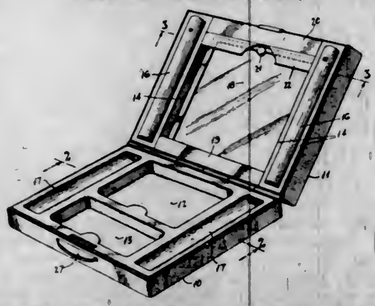
2,278,865
METHOD OF AND APPARATUS FOR FORMING HATS
Gandolfo Cipriano, Dongan Hills, N. Y.
Application March 6, 1940, Serial No. 322,465
5 Claims. (Cl. 223—12)



1. The method of forming a hat which consists in pressing parts of the marginal portion of an appropriate blank into yielding frictional contact with opposed parts of a brim-mold, the parts thus subjected to pressure being distributed throughout a zone extending around the mold but spaced at a material distance inwardly of its

outer margin, then adjusting the positions of portions of the part of the blank intended to serve as the brim of the hat to an extent such as to bring them into a desired brim-forming relationship with respect to the mold by the application of force sufficient to overcome the yielding frictional contact to which such portions are subjected, then pressing and unyieldingly holding against a peripheral brim-forming surface portion of said mold a portion of said blank extending about the zone of application of yielding pressure, and finally forming the crown of the hat by the application of means adapted to forcibly extend the inner unformed portion of the blank into space rendered accessible by an opening bounded by the inner margin of the mold to the extent permitted by the unyieldingly held peripheral portion of the brim and to shape and finish the same.

2,278,866
VANITY CASE
Charles Dell'Elba, New York, N. Y.
Application September 17, 1940, Serial No. 357,088
1 Claim. (Cl. 240—6.45)



A vanity case comprising a cosmetic receptacle and a cover having substantial depth hingedly interconnected along one edge, a mirror in the bottom of said cover, a frame defining the reflecting surface of said mirror, said frame having reflecting surfaces extending perpendicularly from said mirror, an electric light bulb depending from the perpendicular surface of said frame which is opposite said hinged edge, a solid opaque shield for said light bulb extending across said mirror, said shield being of such a depth that no direct light rays will interfere with the user's vision during the normal employment of the vanity case, and a pair of batteries oppositely mounted in said frame.

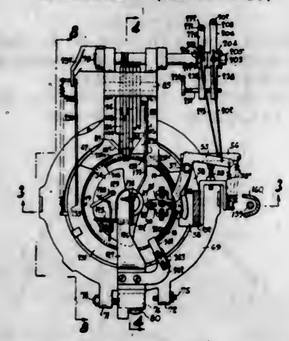
2,278,867
LEAD-FREE GLAZE OF LOW MATURING TEMPERATURE FOR USE IN DECORATING CERAMIC WARE
Alden J. Deyrup, Elizabeth, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 1, 1940, Serial No. 332,732
9 Claims. (Cl. 106—48)

1. A lead-free vitrifiable ceramic glaze composition which comprises silica in amounts ranging from 40–60%, boric oxide present in amounts ranging from 20–40%, aluminum oxide present is amounts ranging from 5–15%, lithium oxide present in amounts ranging from 1–2.5%, and an alkali metal oxide selected from the group which consists of sodium oxide and potassium oxide, said alkali metal oxide being present in amounts ranging from 2–6%, all percentages being by weight based on the total weight of said glaze composition.

2,278,868
GLASS COLORS OF HIGH ALKALI RESISTANCE
Alden J. Deyrup, Elizabeth, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 21, 1940, Serial No. 336,415
17 Claims. (Cl. 106—49)

1. An alkali-resistant, high lead content glaze composition suitable for decorating glassware and maturing below about 1150° F. to a glossy, decorative surface coating, said glaze composition comprising lead oxide, silica, an oxide of an alkali metal having an atomic weight not exceeding 40, boric oxide, and zirconium dioxide; said zirconium dioxide being present in amounts ranging from 1 to 10% by weight, based on the total weight of said composition, and being melted into said composition together with the other ingredients specified.

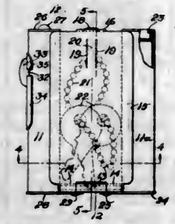
2,278,869
KNITTING MACHINE
Howard Grady Dickens, Thomasville, N. C., assignor, by mesne assignments, to Hemphill Company, a corporation of Massachusetts
Application February 15, 1941, Serial No. 379,053
19 Claims. (Cl. 66—135)



1. A circular independent needle knitting machine having a rotary needle cylinder, means for wrapping strands around a group of selected needles comprising a plurality of wrap strand fingers rotating on a fixed axis in a plane inclined to both vertical and horizontal planes passing through the needle cylinder at a point on said axis which is disposed within the projected needle cylinder.

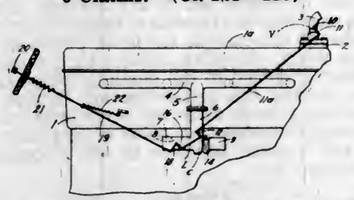
2,278,870
CONTAINER
Wesley W. Flagg, Belmont, Mass., assignor of one-half to Clifton E. Flagg, Reno, Nev.
Application January 31, 1940. Serial No. 316,573
2 Claims. (Cl. 206—38)

1. A container of the class described comprising a body including two relatively parallel spaced apart cylinders connected by an intermediate flat panel constituting the rear wall of a compartment disposed between said cylinders and also including an end wall closing one end of said compartment; an adjustable closure panel whose opposite side marginal portions are seated upon said cylinders, said closure panel constituting the front wall of said compartment and being hingedly connected at its one end with said end wall; means detachably fastening the opposite end of said closure panel to the front end of said intermediate panel, said means including an apertured resilient tang projecting laterally from the front end of said closure panel and constituting an end wall section by which keys are held



within said compartment, and said tang being of less width than the width of said compartment so as to provide a passageway for a flexible key-holding cable; a stud projecting from the front end of said rear wall panel adapted to occupy the aperture of said tang so as to hold said closure panel in its closed position; adjustable closures for the rear ends of said cylinders, and means closing the front ends of said cylinders.

2,278,871
CONTROL MECHANISM FOR INTERNAL COMBUSTION ENGINES
Frederick G. Folberth and William M. Folberth, Cleveland, Ohio
Application July 7, 1933, Serial No. 679,368
6 Claims. (Cl. 123—119)

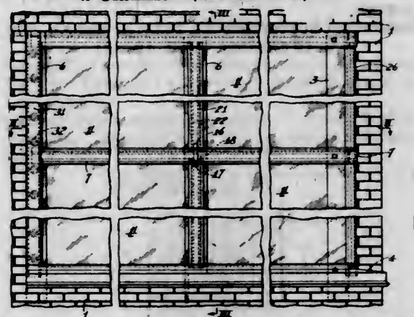


1. In combination with an internal combustion engine, a carburetor having a choke valve and a fuel nozzle, means responsive to the operating temperature of the engine for varying the quantity of fuel supplied to said nozzle and means operated by said temperature responsive means for limiting the movement of said choke valve in closing direction, said movement limiting means comprising a sliding link member having one part connected to be moved by said temperature responsive means, another part adapted to move with said choke valve and means for limiting the relative movement of said parts.

2,278,872
PIGMENT FOR COLORING CERAMIC COMPOSITIONS
Charles G. Geary, Perth Amboy, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 1, 1940, Serial No. 349,246
19 Claims. (Cl. 106—292)

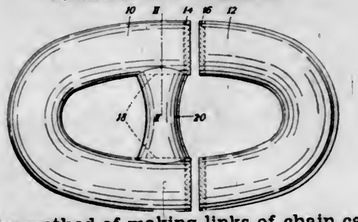
1. A process of preparing a ceramic pigment which comprises calcining a base mixture including compounds of chromium and antimony in the presence of a sulfate.

2,278,873
WINDOW CONSTRUCTION
Emil K. Geyser, Baldwin Township, Allegheny County, Pa.
Application June 4, 1940, Serial No. 338,683
2 Claims. (Cl. 189—78)



1. In a window construction the combination with a plurality of horizontal channel members having upper and lower channels, the upper channel of each member being shallower than the lower channel thereof, and glass panes having their upper and lower edges disposed in adjacent channel members, the panes being narrower than said channels and being of such height that their upper edges can be raised into the lower channel of one of said members until the lower edges of the panes clear the top of the channel member below, of a plurality of facing members overlying only one side of said panes each of said facing members being in the form of a straight vertical strip overlying adjacent vertical edges of a pair of glass panes with its ends disposed in the adjoining channel members, the strip being of substantially the same height as said panes whereby it can be inserted in said channels in the same way, and the back of the strip being provided with a vertical rib projecting between said pair of panes and having a free rear edge so that the rib is insertable between said panes after they have been mounted in position in said channels.

2,278,874
CHAIN CABLE
Samuel Hunter Gordon, Inverness, Scotland
Application June 18, 1941, Serial No. 398,677
In Great Britain July 23, 1940
10 Claims. (Cl. 59—31)



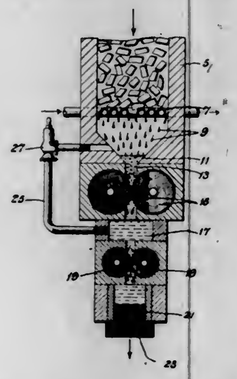
1. The method of making links of chain cables of the kind hereinbefore referred to consisting in forming two part-links abutting along a line displaced from the minor axis of the link by an amount approximately equal to half the width of the stud, shaping the ends of the stud and the parts of the longer part-link against which they fit so that the stud is located and locked in relation thereto at least in one direction, assembling the stud with the said part-link and uniting the two part-links by automatic electric resistance welding.

2,278,875

METHOD AND APPARATUS FOR THE PRODUCTION OF ARTIFICIAL STRUCTURES

George De Witt Graves, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

Application September 29, 1938, Serial No. 232,314
10 Claims. (Cl. 18—8)



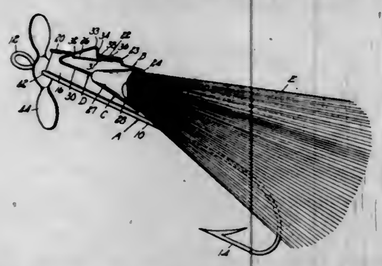
7. In an apparatus for the extrusion of a molten structure-forming composition which is subject to bubble-formation under the conditions prior to and during the extrusion thereof, means for imparting a pressure to said composition whereby to substantially eliminate the bubbles therefrom, an extrusion element containing orifices, metering means for forcing said composition at a substantially uniform rate to said extrusion element while maintaining the same under sufficient pressure to prevent reformation of bubbles in said composition, and filter pack means on the interior of said extrusion element in contact with the interior surface of the extrusion element containing said orifices for the prevention of rapid drop in pressure on said composition.

2,278,876

FISHING FLY

William E. Hart, West Hartford, Conn.

Application November 28, 1939, Serial No. 306,485
9 Claims. (Cl. 43—42)



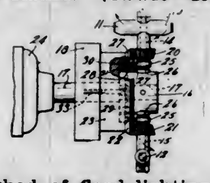
1. A fishing fly comprising a hook having a shank, a sleeve secured to said shank, a streamer carrying cap receivable in said sleeve, and cooperating means on said cap and said sleeve automatically engageable upon inserting the cap in the sleeve for releasably securing said cap within the sleeve.

2,278,877

FLOOD LIGHTING

Alfred L. Hobart, Springfield, Mass.

Application August 28, 1940, Serial No. 354,478
3 Claims. (Cl. 240—49)



1. The method of flood lighting which comprises rotating each of a plurality of beams of light simultaneously about two axes substantially at right angles to each other, including at least two beams following the same path in spaced relation, and at least two other beams following one another in spaced relation along another path, said paths being angularly offset from each other, the speed of rotation of the beams being sufficient to successively position said beams at any given point in their paths of movement within the period of the persistence of vision.

2,278,878

METHOD FOR DELUSTERING AND PIGMENTING

George Preston Hoff, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application September 10, 1940, Serial No. 356,168
3 Claims. (Cl. 260—37)

1. The method of incorporating a finely divided inert material with uniformity throughout a synthetic linear polymer taken from the class capable of being drawn from the polymer in liquid form into filaments which are further capable of being cold drawn at ordinary temperature with simultaneous increase in strength, pliability and elasticity which comprises adding such finely divided inert material to the partially polymerized polymer, during the polymerization thereof, the addition being made after the polymerization reaction has proceeded to a point of ebullition but before any marked increase in the viscosity of the reaction mass.

2,278,879

YARN STRUCTURE AND METHOD AND APPARATUS FOR PRODUCING SAME

Archibald Stuart Hunter, Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application October 12, 1939, Serial No. 299,170
17 Claims. (Cl. 28—1)



1. A process for the production of yarn con-

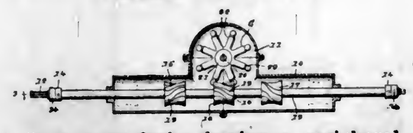
taining filamentous nubs which comprises severing some of the filaments of a continuous filament yarn at intervals along the length thereof, and gathering and entangling the end portions of said severed filaments into spaced compact bunches along the length of other of the filaments of the yarn remaining unsevered at said intervals.

2,278,880

GEARING

Jessie T. Ivy, Seattle, Wash.

Application April 8, 1941, Serial No. 387,499
5 Claims. (Cl. 74—465)



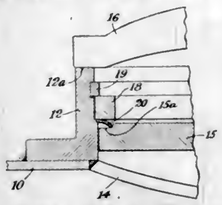
1. In a gear device having a peripheral extension, a depressed web formed in the end of the extension to provide an externally concave ball receiving seat, a retainer member detachably connected with the said extension, and cradle members projecting from the said retainer member shaped to embrace diametrically opposed minor segments of a ball on the seat to rotatably support the ball on the said gear extension.

2,278,881

PRESSURE VESSEL

George T. Jacocks, Larchmont, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware

Application February 17, 1939, Serial No. 256,934
1 Claim. (Cl. 220—46)



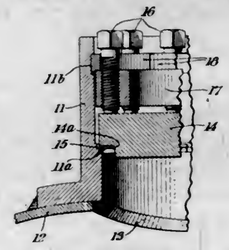
A pressure vessel having an opening in the wall thereof, a nozzle projecting from the vessel wall adjacent said opening, said nozzle having an internal shoulder thereon projecting into the opening, a cover of smaller external diameter than the internal diameter of said nozzle, said cover having a peripheral shoulder adjacent one edge, an annular gasket extending between the shoulder on said nozzle and the shoulder on said cover, said gasket being relatively flat from its outer edge to an intermediate part of its cross section and substantially curved through the remainder of its cross section, the flat edge of said gasket being relatively fixed and the curved edge of said gasket being relatively movable, a backing ring fitting within the wall of the opening and engaging the relatively flat edge of the gasket and anchoring the gasket as a cantilever, a detachable ring in shear relation with the internal wall of the opening to retain said backing ring in position, the free edge of the gasket having a rolling contact on the cover, detachable means engaging said nozzle and an adjustable member carried by said detachable means and reacting through said nozzle and engaging said cover, said adjustable member on adjustment forcing the cover against the gasket, and moving the free curved end thereof into a relatively straight position to establish sealing relation, said cover being freely movable outward whereby a superior internal pressure will tend to assist the straightening force on the gasket.

2,278,882

PRESSURE VESSEL

George T. Jacocks, New Rochelle, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware

Original application February 17, 1939, Serial No. 256,934. Divided and this application December 4, 1941, Serial No. 421,576
2 Claims. (Cl. 220—46)



1. A pressure vessel having an opening in the wall thereof, a nozzle projecting from the vessel wall adjacent said opening, said nozzle having an internal shoulder thereon projecting into the opening, a cover of smaller external diameter than the internal diameter of said nozzle, said cover having a peripheral shoulder adjacent one edge, an annular gasket extending between the shoulder on said nozzle and the shoulder on said cover, said gasket being relatively flat from its inner edge to an intermediate part of its cross section and substantially curved through the remainder of its cross section, the flat edge of said gasket being relatively fixed and the curved edge of said gasket being relatively movable, one face of the peripheral shoulder on the cover engaging the relatively flat edge of the gasket and anchoring the gasket as a cantilever, the free edge of the gasket having a rolling contact on the shoulder on the nozzle wall, the internal wall of said nozzle having a recess and a split ring extending into said recess in shear relation with the internal wall of the opening, and a continuous ring interposed between the split ring and the cover and adapted to engage the split ring, adjustable members carried by said continuous ring and reacting through said nozzle and engaging said cover, said adjustable members on adjustment forcing the cover against the gasket and moving the free curved end thereof into a relatively straight position to establish sealing relation, said cover being freely movable inwardly whereby a superior external pressure will tend to assist the straightening force on the gasket.

2,278,883

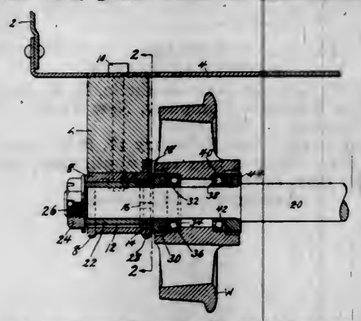
MINE CAR BEARING

Robert C. Kepner, Bloomsburg, Pa., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey

Application April 1, 1940, Serial No. 327,157
5 Claims. (Cl. 308—180)

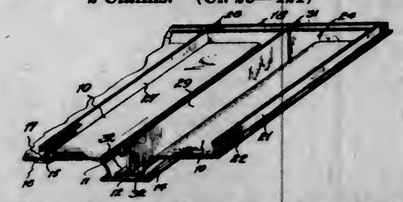
1. In a structure of the character described, the combination with a sill portion of a car body, of a wheel, antifriction bearings in said wheel, an axle supported by said antifriction bearings and extending outwardly beyond said

wheel and beneath said sill portion, a supporting bearing secured to said sill portion, means interposed between said supporting bearing and axle to support the car body on the axle, and an outer dust guard collar for said antifriction



bearings supported on said axle between said means and the antifriction bearings, said collar having a portion thereof in engagement with and slidable axially of the supporting bearing and preventing rotation of the collar.

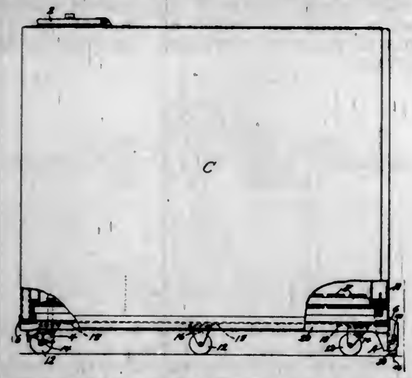
2,278,884
TERRAZZO MOLD
John Korizon, Atlanta, Ga.
Application January 2, 1940, Serial No. 312,115
2 Claims. (Cl. 25—121)



1. In a mold for casting terrazzo base members, a plurality of bottom members having downwardly curved portions and substantially straight portions, said bottom members being arranged with the curved portions adjacent each other and a straight portion of one bottom member arranged adjacent a straight portion of another bottom member, means for securing said adjacent straight portions of the bottom members to each other in a spaced relation to provide a groove between the edges thereof, plates connecting the curved portions of the bottom members, end walls for said bottom members, and a removable partition extending longitudinally of the mold with the lower edge thereof within said groove.

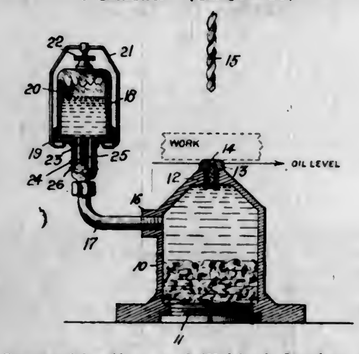
2,278,885
SHIPPING CONTAINER ANCHOR MEANS
Robert J. Kuhl, Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application April 13, 1940, Serial No. 329,468
3 Claims. (Cl. 248—361)

1. Anchor means for freight or other containers comprising a base member secured to the container and having side flanges directed outwardly from the container, a folding extension member having side flanges substantially paralleling the base member flanges, substantially vertically elongated slots in the flanges of said base member and pivot means extending through the slots and through the flanges of the extension member and joining said members together for relative pivotal and sliding movements, said slots being formed in the base member and inclined upwardly and outwardly whereby said extension



member will move laterally away from the base member for rotation of the extension during upward sliding movements and be urged against the base member by sliding vertically downward in the limiting pivotal positions.

2,278,886
AUTOMATIC OILING DEVICE
Charles Langbein and Charles Gordon, Brooklyn, N. Y., assignors to William Langbein and Brothers, Brooklyn, N. Y.
Application July 16, 1941, Serial No. 402,686
7 Claims. (Cl. 77—55)



5. In combination, a drill block having a work supporting top apertured to permit free passage of a drill therethrough, and a lubricant holding chamber in the block beneath and in communication with the top aperture.

2,278,887
WATER CLOSET
Nels Larson, Chicago, Ill., assignor to Duner Co., Chicago, Ill., a corporation of Illinois
Application November 1, 1940, Serial No. 363,904
3 Claims. (Cl. 74—512)

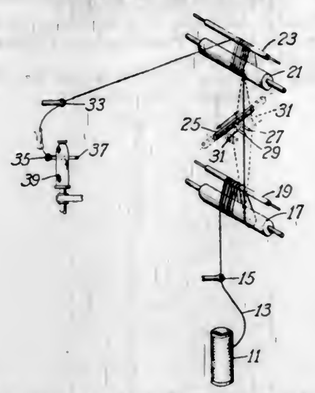
1. In a water closet having dump pan mechanism, operating mechanism therefor, and a foot operated lever; a link pivotally connected at one end to said lever and adapted to be moved longitudinally thereby to compressively transmit movement of said lever to said operating mechanism, a pin mounted for rotation on the other

end of said link in a plane normal to the axis thereof, and a second pin mounted for rotation



on said first pin in a plane parallel with the axis of said link and pivotally connected to said operating mechanism.

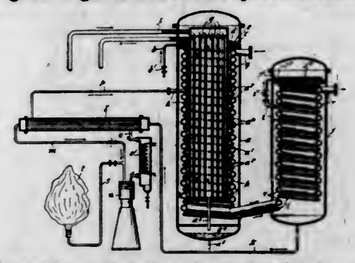
2,278,888
ARTIFICIAL STRUCTURE AND PROCESS FOR PRODUCING SAME
Everett Vernon Lewis, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application November 2, 1938, Serial No. 238,316
15 Claims. (Cl. 18—54)



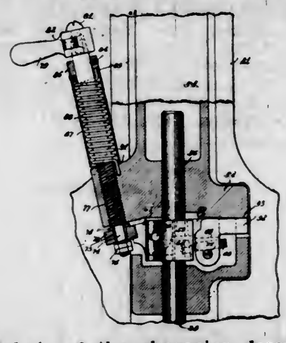
9. The process of producing vari-colored synthetic linear polyamide yarn which comprises spinning said yarn, subjecting said yarn to non-uniform drawing conditions which will impart to the yarn variations in denier, dyeing said yarn and re-drawing the same to substantially eliminate variations in denier of the filaments.

2,278,889
REFRIGERATING MACHINES ARRANGED IN CASCADE RELATIONSHIP
Guido Maiuri, Aldwych, London, England
Application May 15, 1940, Serial No. 335,236
In Great Britain May 3, 1939
2 Claims. (Cl. 62—115)

1. A diffusion absorption refrigerating machine containing an inert gas combined with a compression refrigerating machine and comprising, an evaporator of said diffusion absorption refrigerating machine, a condenser of said compression refrigerating machine extending through said evaporator of said diffusion absorption refrigerating machine along a region of decreasing temperatures, an evaporator of said compression refrigerating machine, and a conduit extending through both said evaporators and conveying fluid in the direction of said decreasing temperatures.



2,278,890
DENTAL CHAIR AND THE LIKE
Adam J. May, Rochester, N. Y., assignor to Ritter Company, Inc., a corporation of Delaware
Application February 10, 1939, Serial No. 255,717
5 Claims. (Cl. 155—156)

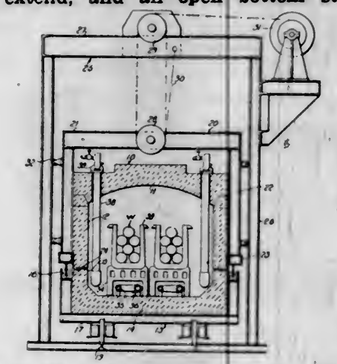


1. A chair of the character described comprising a seat, a back rest connected with said seat and movable to and from an inclined position, an element connecting said seat and back rest and movable relatively to said back rest during said inclining movement thereof, clamping means for engaging said element, a lever pivoted to said clamping means and extending in opposite directions from its pivotal connection therewith, one end of said lever being engaged by said back rest, means on said lever for actuating said clamping means, and positive actuating means on said back rest and engaging the other end of said lever for moving the same to actuate said clamping means to grip said element for securing said back rest in adjusted position.

2,278,891
ANNEALING FURNACE
Theodore W. Munford, Ottawa Hills, Ohio, assignor to General Properties Company, Inc., a corporation of Delaware
Application August 21, 1941, Serial No. 407,785
1 Claim. (Cl. 263—43)

A furnace comprising in combination a relatively long wide work-supporting base, a plurality of combustion tubes extending along the top side of the base, means on the base for supporting the work next above said tubes so that the underside of the work may be heated by radiation from said tubes, said base having a peripheral wall which extends a substantial distance above the top level of said tubes and through which said

tubes extend, and an open bottom structure



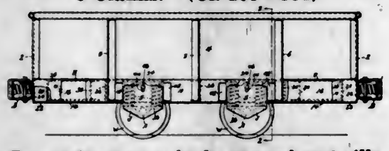
seated on said wall to form a heating chamber for said work.

2,278,892
CATALYTIC APPARATUS
Richard E. Nagle, New York, and Leon P. Gaucher, Mount Vernon, N. Y., assignors, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application June 29, 1940, Serial No. 343,094
2 Claims. (Cl. 23—288)



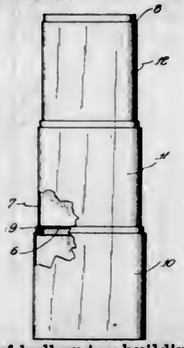
1. Apparatus for effecting chemical transformation of a fluid substance by contact with a solid catalyst in divided form, comprising a vertical vessel, a plurality of beds of catalytic material supported within the vessel and spaced vertically apart, inverted conical diaphragm members between each bed, each member having a port at its vertex, a vertical shaft within the vessel extending through the beds and through the ports of said diaphragm members, said shaft being capable of vertical movement, disk members integral with the shaft adjacent the ports in each diaphragm member and adapted to form a closure for said ports upon raising the shaft, conduits for introducing fluid between the top of each bed and its adjacent diaphragm member, conduits for separately and simultaneously introducing fluid to each catalyst bed and removing it after passage through each bed when the said ports are closed, an inlet conduit for introducing fluid to the top of said vessel, and an outlet conduit for discharging fluid from the bottom of said vessel, said inlet and outlet conduits permitting series flow of fluid through the beds when the port in each diaphragm is open.

2,278,893
SPRING MOUNTED MINE CAR
Herman H. Pancake, Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application April 20, 1940, Serial No. 330,667
9 Claims. (Cl. 105—364)



1. In a mine car, a body, spaced end sills, substantially closed box-section side sills extending from end sill to end sill and supporting the body and being formed in part by the floor of said body, axles extending transversely of the body wholly beneath the horizontal plane through the lowermost portion of said closed box section side sills and being supported on wheels, journal boxes supported on the axles and having parts thereof overlapping the outside side portions of said box-section side sills, and resilient means positioned within said box-section sills and resiliently supporting said body upon said journal boxes.

2,278,894
TOY BUILDING BLOCK
Nils I. Paulson, Chicago, Ill., assignor, by mesne assignments, to Elgo Plastics, Inc., Chicago, Ill., a corporation of Illinois
Application February 20, 1941, Serial No. 379,791
3 Claims. (Cl. 46—25)



1. In a set of hollow toy building members each being of graduated transverse size for nesting one within another and for the building of a column having generally tapered sides, a new article of manufacture comprising a toy building member open at one end and having an end wall and side walls all integrally formed of molded plastic material, said end wall having exterior groove means to receive the ends of the side walls at the open end of a similar member of a transverse size adapted to nest within said first member.

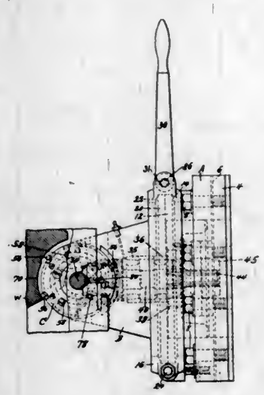
2,278,895
COMPOSITE MATERIAL
Edward W. Rugeley, Theophilus A. Feild, Jr., and John F. Conlon, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application December 6, 1938, Serial No. 244,176
17 Claims. (Cl. 28—1)

1. Composite materials comprising fibers reinforced by a binding agent, said binding agent consisting of at least partially fused fibers of a water-insoluble vinyl resin, said resin having an average macromolecular weight of at least 7500.

2,278,896
COMPOSITE MATERIAL
Edward W. Rugeley, Theophilus A. Feild, Jr., and John F. Conlon, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Original application December 6, 1938, Serial No. 244,176. Divided and this application June 15, 1939, Serial No. 279,262. In France August 24, 1938
18 Claims. (Cl. 28—1)

1. Composite materials comprising staple fibers of a water-insoluble vinyl resin having an average macromolecular weight of at least 7,500, said staple fibers being at least partially heat-fused with staple fibers of at least one other textile material.

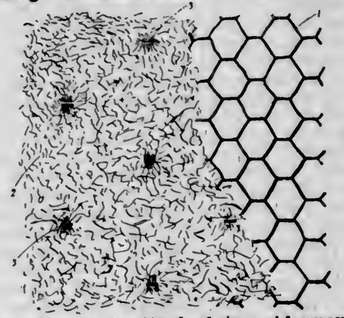
2,278,897
MILLING MACHINE ATTACHMENT
George L. Preston, Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application November 13, 1941, Serial No. 418,955
10 Claims. (Cl. 90—17)



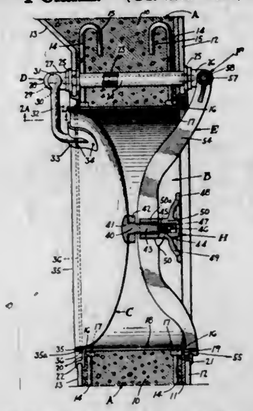
1. In an attachment for milling or like machines having a drive shaft the combination of a base secured to the machine, a head carried by the base, a shaft journaled in the head and adapted to be driven by the drive shaft of the machine, a first gear on said first named shaft, a second gear journaled in said head and meshing with said first gear, a milling cutter secured to said second gear and rotatable therewith, and a bearing located within said second gear and adapted to support the same for rotation about an arbor carried by the work to be milled.

2,278,898
CAMOUFLAGE MATERIAL
Cecil Strathmore Schofield, London, England
Application April 24, 1941, Serial No. 390,209
In Great Britain October 28, 1939
8 Claims. (Cl. 41—10)

1. Camouflage material comprising an open-mesh metal material and metal wool, said metal wool being furnished with an insoluble phosphate coating and attached to said open-mesh material to substantially cover the same.

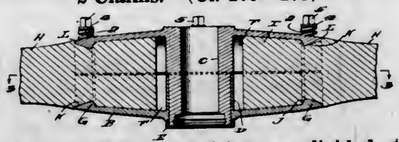


2,278,899
MANHOLE DEVICE
Herman Schorer, Valhalla, N. Y., assignor to Borsari Tank Corporation of America, New York, N. Y., a corporation of Delaware
Application November 25, 1938, Serial No. 242,192
1 Claim. (Cl. 220—25)



In a tank, a manhole construction comprising a circular shell forming the periphery of said hole, a round domed flexible sheet metal door of semi-elliptical cross section at one side of said shell and a clamping device at the other side of said shell connected to the center of said door, and bolts extending outside of and parallelly to said manhole having hinge mounts for said door and clamping device.

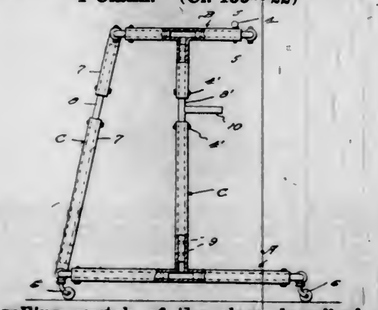
2,278,900
AIRPLANE PROPELLER
Harry M. Sensenich, Lititz, Pa., assignor to Sensenich Brothers, near Lititz, Pa., a copartnership composed of himself and Martin M. Sensenich
Application June 29, 1939, Serial No. 281,959
2 Claims. (Cl. 170—173)



2. A propeller comprising a divided two-member clamp-type hub of which the members are slightly spaced apart throughout their length and are internally conically cavitied to together

provide a plurality of blade root sockets disposed equidistantly about the axis of said hub and extending radially with relation to said axis, and a plurality of propeller blades having conical roots respectively disposed in said sockets, and of material differing from that of said hub and expanding and contracting responsive to changes in the atmosphere out of harmony with the material of said hub, in combination with headed rods passing through the marginal portions of said hub members, laterally projecting members carried by the end portions of said rods respectively, and springs respectively compressed between the opposing faces of said respective members and the adjacent hub member whereby said hub members will respectively be acted upon by the respective heads of said rods and the respective laterally projecting members carried by the respective rods through the intermediary of the respective springs to be automatically adjusted in position to grip and hold between them said blade roots against pitch displacement or substantial endwise movement throughout the operative range of expansion and contraction of said roots, and said hub members and said blades having cooperating axially presented annular faces extending radially inwardly of the respective roots and at an angle to said coned faces of said roots and sockets and cooperating with the coned faces of said sockets and roots respectively to maintain the respective blades in proper position radially of said hub.

2,278,901
ROLLING CRUTCH
Olin C. Smock, Assumption, Ill.
Application May 6, 1941, Serial No. 392,163
1 Claim. (Cl. 155—22)

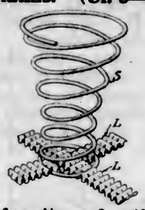


A rolling crutch of the class described comprising upper and lower frames, the upper frame being smaller than the lower frame, means for removing a part of the upper frame to permit a person to enter the frame or leave the frame, caster wheels at the corners of the lower frame and upwardly and inwardly extending bar members connecting the two frames together with the upper frame centrally arranged relative to the lower frame, means for adjusting the sizes of the two frames and means for adjusting the length of each bar member.

2,278,902
YARN SIZING PROCESS
Edgar W. Spanagel, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 13, 1940, Serial No. 369,951
6 Claims. (Cl. 91—68)

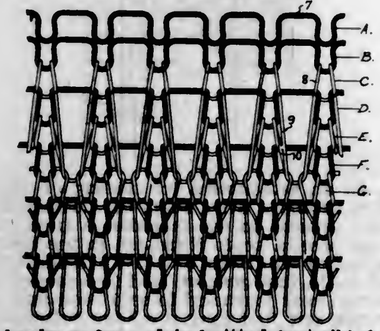
1. The process which comprises sizing, on-the-run, a yarn composed of filaments of a synthetic linear polymer with an aqueous sizing composition, and drying said yarn at a rate sufficiently slow that the sizing composition associated with the yarn one minute after application thereof contains at least 50% water, based on the weight of the solids in the composition.

2,278,903
SPRING MOUNTING
Paul Stadtler, Flushing, N. Y.
Application March 7, 1939, Serial No. 260,299
9 Claims. (Cl. 5—264)



1. For use in furniture for the support of coil springs, a lacing strip having at least one pair of transversely disposed ribs formed therein and defining a hollow between them and means in said hollow adapted to receive a portion of the spring, said means comprising sections of material raised from the walls of said hollow and contoured so as to form a cylindrical passageway having a restricted opening at one side through which a portion of a spring may be inserted when the passageway is enlarged by flexing the strip, but which will not permit the passage of the spring when the strip is normally contoured.

2,278,904
KNITTED FABRIC
Eugene St. Pierre, Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Original application December 19, 1938, Serial No. 246,580. Divided and this application September 6, 1940, Serial No. 355,699
5 Claims. (Cl. 66—172)

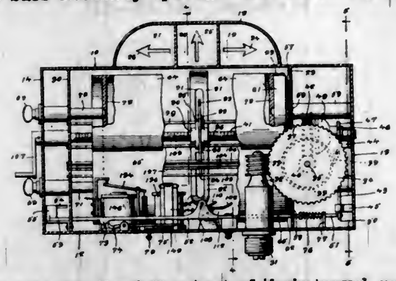


1. A selvage for a plain knitted (not rib) fabric including an edge fast against ravelling, elastic yarn incorporated to be held at alternate wales only and a plain yarn knitted in said alternate wales but tucked at intermediate wales.

2,278,905
ROAD INDICATOR
Enrico Tedeschi, Tuckahoe, N. Y.
Application July 31, 1939, Serial No. 287,657
7 Claims. (Cl. 200—33)

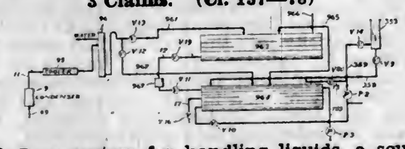
1. In a road indicator for motor vehicles, synchronously rotatable cylinders having a plurality of concavities in their outer surfaces, pivoted

contacts having one end normally held in frictional engagement with the said cylinders, means to simultaneously progressively move the said contacts longitudinally of the said cylinders, bus bars normally engaged by the other ends of the contacts for the full extent of their travel, and bus bars normally spaced from the said pivoted



contacts, for the full extent of their travel, movement of the first-mentioned ends of the contacts into register with the concavities in the cylinder surfaces effecting pivoting of the contacts whereby the said second ends will disengage from the said first bus bars and engage with the said second bus bars.

2,278,906
LIQUID STORAGE AND HANDLING SYSTEM
Henry L. Alexander, Wilmington, and Hubert I. du Pont, Rockland, Del., and Willing B. Foulke, Media, Pa., assignors to Delaware Chemical Engineering and Development Company, Wilmington, Del., a corporation of Delaware
Original application August 31, 1936, Serial No. 98,819, now Patent No. 2,150,899, dated March 21, 1939. Divided and this application March 20, 1939, Serial No. 263,080
3 Claims. (Cl. 137—78)



3. In a system for handling liquids, a source supplying thereto a mixture of liquids one of which liquids is to be recovered from other components of said mixture, a storage vessel for recovered liquid, a storage vessel for fresh liquid, means for separating the liquid to be recovered from said mixture of liquids, means for conducting said liquid so recovered to said storage vessel for recovered liquid, means for transferring fresh liquid from said storage vessel for fresh liquid to said storage vessel for recovered liquid, means for measuring the amount of liquid so transferred, a third vessel for receiving said liquid, said vessel releasing excess liquid when the amount of liquid exceeds the capacity of said third vessel, means for transferring liquid from said storage vessel for recovered liquid to said third vessel, and means for returning liquid released from said third vessel to said storage vessel for recovered liquid.

2,278,907
FOUNTAIN PEN
Martin S. Baker, Janesville, Wis., assignor to The Parker Pen Company, Janesville, Wis., a corporation of Wisconsin
Application July 26, 1940, Serial No. 347,586
9 Claims. (Cl. 120—42)

1. In a fountain pen, a barrel, ink feed mechanism including a pen nib mounted in the forward end of said barrel, an elongated cylindrical cap open at one end and closed at its other end, said cap being adapted to receive said barrel and enclose the forward end thereof, stop means within and carried by said cap and adapted to engage the enclosed barrel portion and thereby limit the



extent that the barrel may be received within said cap, and means between said cap and said barrel and engageable prior to engagement of said stop means for yieldably retaining said cap upon said barrel in its stop-engaged position, and whereby the cap may be applied to or removed from said barrel by a single push or pull movement, respectively.

2,278,908
THERMAL ENERGY RESPONSIVE INDICATING DEVICE
George E. Barnhart, Pasadena, Calif.
Application February 12, 1940, Serial No. 318,455
5 Claims. (Cl. 73—340)

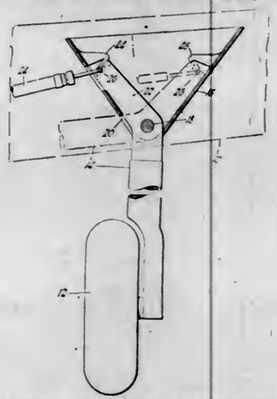


3. In an instrument of the class described, an elongated transparent tube having a bulb communicating with each end thereof, a drop of opaque liquid in said tube, a filling of gas in the tube at each end of the drop and in the bulbs, one end of said tube extending into one of the bulbs, said end having a beveled extremity, a receptacle disposed coaxial with the tube and including a portion slightly spaced from the beveled end of the tube.

2,278,909
METHOD OF REMOVING MUD BARRIERS FROM OIL WELLS
Theodore A. Bertness, Whittier, Norris Johnston, Alhambra, and Daniel O. Newton, La Habra Heights, Calif., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application March 11, 1941, Serial No. 382,759
1 Claim. (Cl. 166—24)

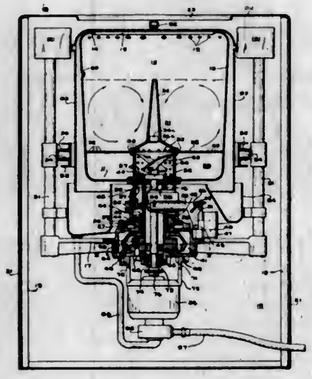
The method of removing mud barriers from oil wells which comprises: removing drilling fluid from said well; filling a desired portion of the bore of said well with tetrachlorethane; allowing the well to stand until said tetrachlorethane has substantially been absorbed by said mud barrier, and cleaning out said well.

2,278,910
AIRPLANE GEAR
Edward M. Bertrán, Flushing, N. Y., assignor to Brewster Aeronautical Corporation, Long Island City, N. Y.
Application October 9, 1940, Serial No. 360,441
8 Claims. (Cl. 244—102)



1. An airplane including a substantially horizontally disposed wing portion, a bracket fixedly mounted entirely within the outer contour of said wing portion, said bracket being of box-like form and V-shaped in vertical section transversely of the longitudinal axis of the airplane and provided with an aperture through the lowermost apex portion and an adjacent side wall portion thereof, and a retractible undercarriage strut extending from below said wing panel and through said aperture into pivotable mounting upon said bracket about an axis disposed substantially longitudinally of the airplane and extending through said bracket whereby said strut is pivotable about said axis between substantially vertical downwardly extended position and a substantially horizontal position of retraction within said wing panel, said strut being being provided with an upright arm portion extending beyond said pivot axis and disposed angularly with respect to the longitudinal axis of said strut so as to be adapted to fit in complementing relation against the opposite inclined side wall portions of said bracket under strut extended and retracted conditions, and motor means disposed within said wing panel outer contour and arranged in operative association with said arm so as to be adapted to actuate said arm so as to pivot said strut between extended and retracted positions.

2,278,911
WASHING APPARATUS
Frank Breckenridge, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 23, 1938, Serial No. 203,805
15 Claims. (Cl. 68—23)

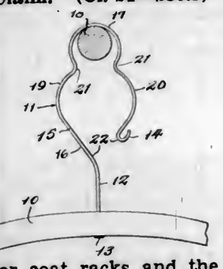


4. In a machine for washing and drying fabrics, the combination of a container rotatable about a substantially vertical axis, said container having an imperforate bottom portion for containing a body of washing fluid and fluid discharge openings in its upper portion above the normal liquid level of the contained body of fluid, a perforate partition below the liquid level in the container for defining a sump in the bottom of the container, a pump confined substantially in said sump for translating fluid from the sump to the body of fluid above said partition, said translated fluid being projected at relatively high velocity into the body of fluid above the partition for agitating the same, means for rotating the container for centrifugally discharging the body of fluid in the container and fluid from the fabrics through said openings, and means for collecting said discharged fluid.

13. In apparatus for washing fabrics and for subsequently extracting water therefrom, the combination of a basket for containing the water and fabrics and disposed for rotation about a substantially vertical axis, an agitator coaxially disposed within the basket, means for continuously rotating the agitator relative the basket in a single direction during both washing and extracting periods, and means for rotating the basket during extracting periods, so that the speed of the agitator relative to the basket is different in the washing and extracting periods.

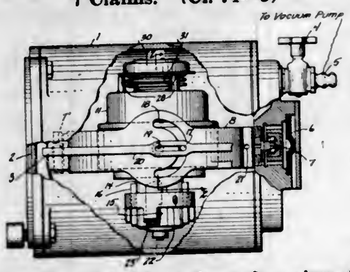
15. The combination of a container for cleaning fluid and the fabrics to be treated and disposed for rotation about a substantially vertical axis, means arranged within the container for agitating the fabrics in the cleaning fluid, driving means for actuating the agitator during washing periods and for rotating the container structure for centrifuging cleaning fluid from the fabrics, said container and driving means being connected and defining a unit structure, and means for flexibly supporting the unit structure and providing for rocking movement of the unit structure in vertical planes and providing for horizontal translations of the unit structure, said flexible supporting means being effective to restrain the unit structure against vertical translations.

2,278,912
GARMENT HANGER
Martha Anna Busse, Syracuse, N. Y.
Application August 13, 1940, Serial No. 352,459
1 Claim. (Cl. 24—230.5)



A hanger for coat racks and the like, comprising a member of resilient wire having a bight portion intermediately of its length, a bill member at each of the extremities of the bight member and in opposed relation to one another, the wire having an outwardly curved converging side portion beyond each bill member, one side portion being constructed for attachment to an article to be suspended, the other side portion being of lesser length and having an offset hook thereon for engagement with the first mentioned side portion below the bill portion, the bight portion and the outwardly converging side portions tending to move the hook so as to separate from the engaged side portion.

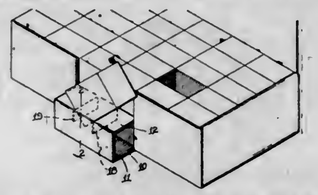
2,278,913
AUTOMATIC BRAKE FOR GYROSCOPIC INSTRUMENTS
Leslie F. Carter, Leonia, N. J., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application December 20, 1939, Serial No. 310,213
7 Claims. (Cl. 74—5)



1. In an artificial horizon for aircraft, the combination with a universally mounted rotor bearing casing, a spinning means and a rotor journaled therein, a spring applied brake biased to engage the rotor and brake the same, and means responsive to the supply of power to said rotor spinning means for releasing the brake.

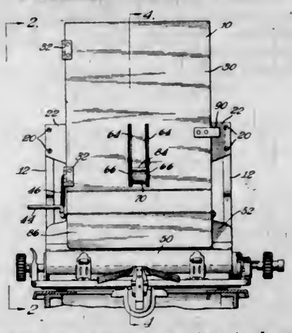
2,278,914
COMBINED SUPPORTING AND DISPLAY DEVICE FOR BOXES
Harold A. Cowles, Rochester, N. Y.
Application February 16, 1939, Serial No. 256,767
6 Claims. (Cl. 206—44)

1. A combined supporting and display device for boxes having a vertical wall member, a tubular member provided on said vertical wall member and scored so as to be divided longitudinally into a plurality of collapsible sides, a bracing member bendable inwardly from one of the sides of said tubular member to provide an opening



therein and have said bracing member extend between two of said collapsible sides to hold said tubular member expanded.

2,278,915
TYPEWRITER FEEDER
Walter O. Critchfield, Shelby, Ohio, assignor to Shelby Salesbook Company, Shelby, Ohio, a corporation of Ohio
Application March 17, 1941, Serial No. 383,866
6 Claims. (Cl. 271—42)

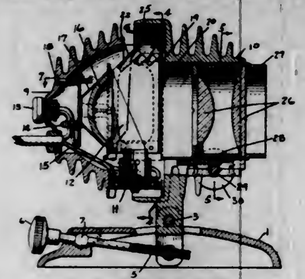


1. A typewriter feeder adapted to be mounted on a typewriter platen carriage comprising a sheet support located above the platen, guide means for directing successive sheets to the introductory side of said platen, a resiliently urged clamp for holding the sheets on said support, a second support, and a sheet feeding device pivotally and slidably mounted on said second support arranged to be manually brought into frictional engagement with the outermost sheet in the supply for pulling that sheet from said clamp and dropping the sheet into said guide means, said first-mentioned support including a substantially vertically positioned tray having its bottom end opening into said guide means, and the sides of the tray restraining the successive sheets from lateral shifting in their movement into said guide means.

2,278,916
ILLUMINATING DEVICE
David I. Critoph and Henry S. Schrader, Buffalo, and Oscar W. Richards, Snyder, N. Y., assignors to Spencer Lens Company, Buffalo, N. Y., a corporation of New York
Application April 13, 1940, Serial No. 329,462
3 Claims. (Cl. 240—47)

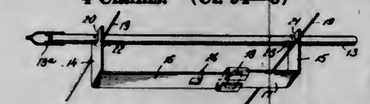
1. In a device of the character described, a rear housing, a lamp in said rear housing, a front housing in alignment with said rear housing, a lens system in said front housing in optical alignment with said lamp, the interior surface of both of said housings having a medium bright metal finish and the exterior of said housings having a plurality of fins, said exterior being

of a dark color, and an overhanging flange adjacent the edge of one of said housings and



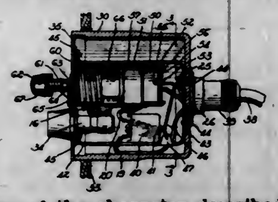
spaced from an overhanging an opening in the other of said housings to allow ventilation of the interior of said housings.

2,278,917
DOWEL BAR SUPPORT
Joe G. Curry, Indianapolis, Ind., assignor, by mesne assignments, to Reconstruction Finance Corporation, Boston, Mass., a corporation of the United States
Application March 14, 1940, Serial No. 323,882
4 Claims. (Cl. 94—3)



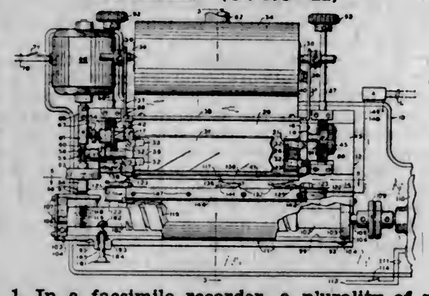
1. A dowel bar support comprising a plurality of L-shaped elements each adapted to be disposed with one portion vertical and the other portion horizontal, the vertical portion of each element being provided with means to receive a dowel bar, and a coupling having two opposed portions spaced apart to receive therebetween the horizontal portions of two of said elements to connect the same for relative movement therebetween, the opposed portions extending lengthwise of the horizontal portions of the L-shaped elements a distance sufficient to prevent the weight of said dowel bar from buckling same.

2,278,918
IMPULSE SWITCH
Chester L. Davidson, Burbank, Calif., assignor to Aviation Patents, Inc., Los Angeles, Calif., a corporation of California
Application May 11, 1939, Serial No. 273,904
In Great Britain May 13, 1938
4 Claims. (Cl. 200—35)



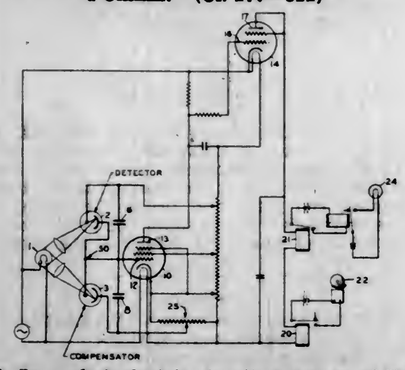
1. Means of the character described for controlling a circuit, said means including: a normally open quick-acting switch in said circuit adapted to snap closed in response to applied pressure and to snap open upon reduction of that pressure; an air chamber normally under atmospheric pressure; means to apply momentary actuating pressure to said switch in response to momentary rarefaction of air in said chamber; pump means adapted for contracting and expanding movement, said pump means being connected with said chamber to rarefy the air therein on its expansion stroke, said pump means being manually contractable; and yielding means operatively connected with said pump means to store energy on the contraction of the pump and to deliver that energy to the pump to cause said expanding movement in a predetermined manner.

2,278,919
FACSIMILE APPARATUS
George L. Erickson, Hasbrouck Heights, and Raleigh J. Wise, Dunellen, N. J., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application March 23, 1939, Serial No. 263,632
16 Claims. (Cl. 178—11)



1. In a facsimile recorder, a plurality of recording styli, a conveyor carrying said styli in spaced relationship, and screw-threaded means positioned to engage each of said styli in turn to move the same at a desired scanning speed.

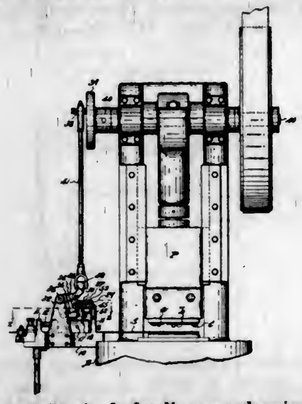
2,278,920
PHOTOELECTRIC SMOKE DETECTION SYSTEM
Francis C. Evans, Dongan Hills, and Khatchik O. Donelian, New York, N. Y., assignors to American District Telegraph Company, Jersey City, N. J., a corporation of New Jersey
Application March 15, 1939, Serial No. 261,878
4 Claims. (Cl. 177—311)



4. In a photoelectric circuit, a source of light, a plurality of photoelectric cells connected in series balanced relation, one of said cells arranged to receive uninterrupted light from said source and act as a compensator cell, the other of said cells arranged to detect variations in light received from said source across a super-

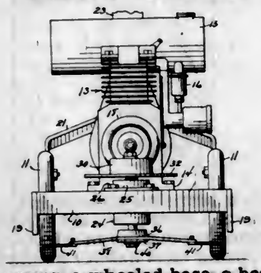
vised area whereby normal fluctuation of the light source has no effect, a source of potential connected to the balanced circuit, high impedance means in parallel with each cell for limiting the impedance increase in said balanced circuit when said light source fails, alarm means responsive to said balanced circuit when light to said detector cell is obstructed and trouble indicating means responsive to voltage changes caused by the limited impedance increase when said source fails.

2,278,921
STRIP STOCK FEED MECHANISM
Charles Fischer, Newark, N. J.
Application April 28, 1941, Serial No. 390,525
5 Claims. (Cl. 271—2.5)



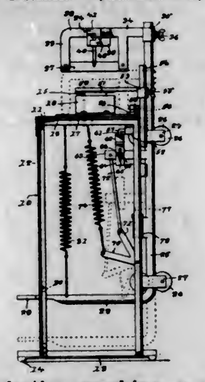
1. In a strip stock feeding mechanism having means to operate the same in synchronized relation to mechanism to which said stock is to be fed thereby, a reciprocating feed means having an oscillator block, a feeding jaw plate carried by said block, release means on said block for moving said jaw plate into and out of service position, means to actuate said release means, and manually controlled means operative to be engaged with said actuating means on an advance movement of said feed means whereby, upon an ensuing retractive movement of the latter, to automatically operate said release means to move said jaw plate from an out of service to an in service position.

2,278,922
ROTARY MOWER
Leonard Goodall, Warrensburg, Mo.
Application April 17, 1941, Serial No. 389,085
2 Claims. (Cl. 56—26)



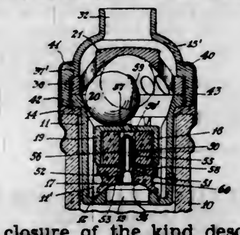
1. In a mower, a wheeled base, a bearing member secured to the base, a vertically extending shaft journaled on the said bearing member, a cap having driving connection with an upwardly projecting end of the shaft, an annular horizontally disposed flange projecting outwardly of the cap, a compression spring yieldingly holding the said cap in elevated position, and a cutter carrying bar detachably secured to the lower end of the shaft and extending transversely thereof.

2,278,923
ICE CREAM BAR MAKING MACHINE
Henry W. Grau, Louisa, Va.
Application September 16, 1940, Serial No. 357,034
6 Claims. (Cl. 107—8)



1. In a confection machine, a cutter, means for intermittently advancing a bar of confection under the cutter, means for reciprocally actuating said cutter to sever a briquette from the end of the bar, and means carried by and coactive with the said cutter for releasably holding a peg laterally of the cutter and for driving the peg into the confection simultaneously with the severance of a briquette therefrom.

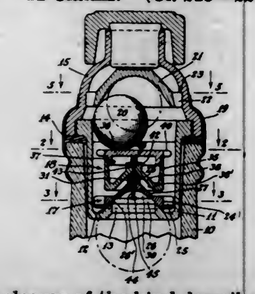
2,278,924
BOTTLE CLOSURE
Edgeworth Greene, Upper Montclair, N. J., and William H. Forrest, Brooklyn, N. Y., assignors to Inter-Seal Corporation, New York, N. Y., a corporation of Delaware
Application October 11, 1939, Serial No. 298,900
6 Claims. (Cl. 215—22)



1. In a closure of the kind described for attachment to a bottle, the sub-combination of a valve compartment with inlet and outlet openings at opposite ends thereof respectively, valve means and movable cooperating weighted means in the compartment, said valve means consisting of a primary element and a secondary element in superimposed relation beneath said weighted means, said primary element being adapted to seal said inlet opening, and having an upstanding projection with an opening therethrough to provide an air vent leading from said compart-

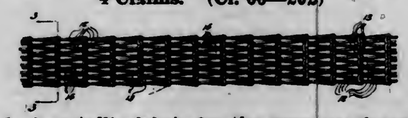
ment into said bottle, and of relatively small area with respect to that of said inlet opening, and said secondary element having a tubular portion extending upwardly from the base thereof, said tubular portion being closed at the top end and the inner surface of which being adapted to seat on the top of said projection and seal said opening therethrough, the contiguous surfaces of the weighted means and the secondary element, and those of the primary and secondary elements being adapted to adhere when wet for the purpose set forth.

2,278,925
BOTTLE CLOSURE
Edgeworth Greene, Upper Montclair, N. J., and William H. Forrest, Brooklyn, N. Y., assignors to Inter-Seal Corporation, New York, N. Y., a corporation of Delaware
Application October 28, 1939, Serial No. 301,748
11 Claims. (Cl. 215—22)



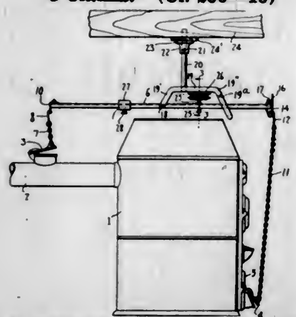
3. In a closure of the kind described for attachment to a bottle, and having a valve casing provided with inlet and outlet openings at the opposite ends thereof, and a valve seat, valve mechanism movable in said casing comprising a primary element and a secondary element loosely connected together, said primary element being adapted to engage said seat and close said inlet opening, and having an air vent therethrough of relatively small area with respect to that of said inlet opening, and said secondary element having a part adapted to close said vent, each of said elements having a plurality of annular lugs projecting radially therefrom at the opposed ends thereof so that the lugs on one element will be remote from those on the other element axially of said closure, and said lugs being adapted to guide and support said elements in cooperation with the adjacent surrounding walls of said casing, the loose connection comprising an enlarged outer end on a part of one of the valve elements of greater diameter than an opening in the other valve element through which it is adapted to extend.

2,278,926
KNITTED METALLIC FABRIC FOR BELTING AND OTHER USES
Ralf L. Hartwell, Orange, N. J., assignor to Metal Textile Corporation, West Orange, N. J., a corporation of Delaware
Application February 15, 1941, Serial No. 379,054
4 Claims. (Cl. 66—202)



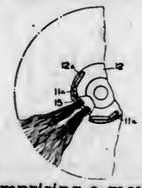
1. A metallic fabric for the purposes described comprising, a body of knitted wire wherein the knitted loops thereof have been stretched lengthwise to their elastic limit to provide the same with straight taut legs disposed in lateral abutment one upon another at points closely adjacent to the interlinked bights of longitudinally connected loops, whereby the loop straddling and loop embraced wire strands are disposed in continuous and laterally aligned abutment throughout the width of the fabric body so as to limit both lateral contraction and longitudinal stretch of the fabric.

2,278,927
THERMOSTATIC CONTROLLING DEVICE FOR FURNACES
James H. Hemry, Springfield, Ohio
Application November 7, 1939, Serial No. 303,268
3 Claims. (Cl. 236—16)



1. In a thermostatic controlling device for a furnace having a draft damper and a check damper, a structure adapted to be assembled as a unit before installation consisting of a single bracket, a bar pivotally connected to said bracket intermediate its ends and of a length sufficient to extend entirely across the top of the furnace to permit the draft damper and check damper of the furnace to be connected therewith by independent connections leading directly from said bar to said dampers, a thermostat responsive to the temperature of the air immediately above the furnace supported by said bracket and operable to tilt said bar, and means for supporting said structure above and independently of the furnace, said structure when assembled being of such dimensions as to permit it to occupy the space above the furnace.

2,278,928
BRUSH
Lawrence C. Herold, Lakewood, Ohio
Application April 17, 1939, Serial No. 268,199
7 Claims. (Cl. 15—198)

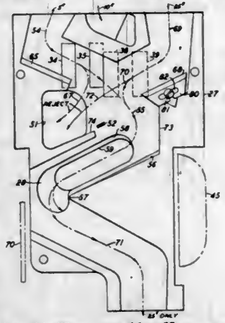


1. A brush comprising a mounting, a plurality of bristle knots secured to said mounting, each knot comprising a plurality of wires, and at least one wire of spring steel quality binding the wires of each knot in a compact bundle throughout the effective working length thereof.

2,278,929
GEOCHEMICAL PROSPECTING
Leo Horvitz, Houston, Tex., assignor to Esme E. Rosaire, Houston, Tex.
Application November 18, 1939, Serial No. 305,063
16 Claims. (Cl. 23—230)

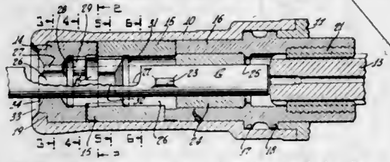
1. A method for locating subterranean carboniferous deposits which comprises systematically collecting samples of soil at spaced intervals in an area to be explored, subjecting each sample to the action of an acid capable of reacting with a free metal to liberate hydrogen, and measuring the hydrogen evolved.

2,278,930
COIN CHUTE
Frederick A. Hoyt, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 26, 1940, Serial No. 367,199
7 Claims. (Cl. 194—101)



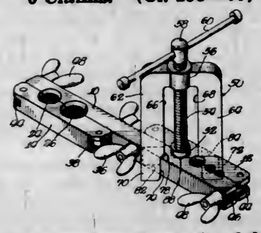
1. A substantially vertically arranged coin chute assembly comprising a chamber having an upper portion and a lower portion, an upwardly extending partition for dividing said lower portion into a first coin passage and a second coin passage, a downwardly inclined coin channel terminating above said first coin passage and at one side of said chamber for laterally projecting a deposited coin of a first denomination into said upper portion, a second downwardly inclined coin channel terminating above said second coin passage and at the opposite side of said chamber for laterally projecting a deposited coin of a second denomination into said upper portion in a direction opposite to that in which a coin of said first denomination is projected and magnetic means associated with each of said coin channels for controlling the projected speed of a deposited coin or slug in accordance with its electrical conductivity.

2,278,931
DOUBLE LOCK CHUCK FOR ROCK DRILLS
August H. Katterjohn, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey
Application October 11, 1940, Serial No. 360,775
6 Claims. (Cl. 279—19.3)



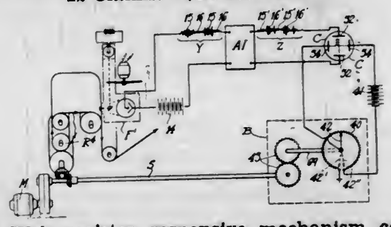
1. A chuck mechanism for lugged tools, comprising a rotatable cylindrical chuck assembly through which the shank of a lugged tool may be passed, front and rear bearings for the tool formed on the inner periphery of said assembly and spaced longitudinally from each other, and separate sets of abutment lugs on the inner periphery of said assembly and cooperable with the lugged portion of a tool to impart rotation to the tool, said separate sets of lugs being formed on opposite sides of said rear bearing and longitudinally offset with respect to each other.

2,278,932
FLARING AND SWEDGING TOOL
Edgar E. Kellems, Pasadena, Calif., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application July 24, 1939, Serial No. 286,234
6 Claims. (Cl. 153—79)



5. A tool for working the ends of ductile tubing comprising a pair of recessed clamping bars for holding the tubing, a yoke operable therewith and a tube-working tool threadably mounted on the yoke adapted to be threaded progressively toward said bars into tube-working position, said yoke having members on opposite sides of the bars wherein opposite faces of said members are spaced apart a distance not less than the combined width of said bars, shoulders on said faces, said yoke having an unclamped position wherein said shoulders engage the top side of the bars, said faces having a length extending to the ends of said members and having recesses in said faces to admit the edges of said bars, said yoke in unclamped position having the faces lying in one angular position relative to the bars and a clamped position wherein the faces lie in another angular position relative to the bars.

2,278,933
CONTROL MECHANISM FOR PRINTING PRESSES
Hermann Kott, East Orange, N. J., assignor, by mesne assignments, to Speedry Gravure Corporation
Application June 2, 1938, Serial No. 211,365
12 Claims. (Cl. 177—311)



7. Web register responsive mechanism comprising a machine having drive means for presenting a web having indexing means thereon to a desired location, photoelectric means for detecting said indexing means, means for producing a

movable instrumentality, means driven in synchronism with the said drive means to move the instrumentality in a normal path and in synchronism with the web drive means, a second means to deflect the movable instrumentality out of the said normal path, and means controlled by the photoelectric means for actuating the said second means.

2,278,934

PROCESS AND CATALYST FOR CONVERSION OF NORMAL PARAFFINS

Milton W. Lee, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

No Drawing. Application September 6, 1938, Serial No. 228,645
5 Claims. (Cl. 260—676)

1. A process for converting normal paraffinic hydrocarbons into branched chain hydrocarbons which comprises dissolving aluminum bromide in said hydrocarbons to be treated and conducting the isomerization reaction in the presence of said aluminum bromide and activated carbon at temperatures in excess of 125° F. but below the temperature at which any substantial cracking takes place.

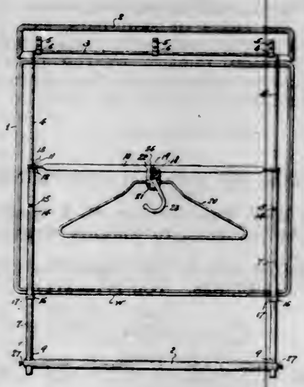
5. A catalyst suitable for the conversion of normal paraffinic hydrocarbons into isoparaffinic hydrocarbons, said catalyst comprising a mixture of aluminum bromide and activated carbon.

2,278,935

GARMENT CARRYING FIXTURE FOR LUGGAGE

Abraham Levine, Elizabeth, N. J., assignor to Presto Lock Corporation, Garfield, N. J., a corporation of New Jersey

Application September 24, 1940, Serial No. 358,048
1 Claim. (Cl. 190—41)



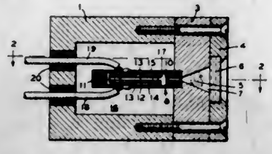
In combination with a luggage case having a body and a cover hinged thereto, an extensible garment supporting frame adapted in contracted condition to swing into said cover and in extended condition to swing downwardly over the open case body, said case cover and frame having means to releasably secure the latter, when contracted, within the former, said frame comprising an inner section formed from a single rod bent into U-shape to provide a transverse base portion and longitudinal freely extending legs terminating at their free ends in stop heads, said inner section being pivotally mounted by its transverse base portion within the case cover adjacent to the hinged end thereof, an outer section having tubular side members telescopically engaged slidably over the legs of said inner section, said side members having internal stop means spaced from their inner ends to cooperate with said stop heads of the inner section legs whereby to limit outward sliding extension of said outer section, said side members being connected at their inner ends by a transverse back bar and at their outer ends by a transverse folder bar, a garment hanger, means to detachably couple said hanger to said outer section back bar, and means carried by the outer section side members engageable with the exterior face of the case body front wall when said outer section is extended thereover, whereby to prevent inwardly shifting displacement of said outer section from such extended position.

2,278,936

RADIANT ENERGY RECEIVING SYSTEM

Maxwell H. A. Lindsay, Summit, N. J., and Howard J. Pearson, New York, N. Y., assignors to American District Telegraph Company, Jersey City, N. J., a corporation of New Jersey

Application April 25, 1939, Serial No. 269,880
15 Claims. (Cl. 250—83.3)



1. A radiant energy receiver comprising a casing having a chamber therein, a cover for said casing including a conical chamber having a gas therein, a window for closing said conical chamber and admitting radiant energy, a gas-adsorbing substance comprising charred pappus of thistle within said conical chamber and responsive to changes in radiant energy for changing the gas pressure therein, a pair of spaced piezoelectric crystals supported from said cover within said chamber, a passage connecting said conical chamber with the space between said crystals whereby changes in gas pressure within said conical chamber change the gas pressure between said crystals and deform them to generate electrical energy.

2,278,937

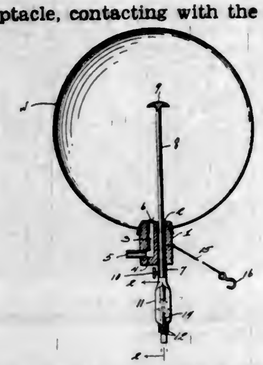
CAMERA ATTACHMENT

Donald Mackintosh, Calgary, Alberta, Canada

Application September 12, 1940, Serial No. 356,542
3 Claims. (Cl. 161—26)

3. A camera attachment of the class described comprising a body, a receptacle having a stretchable wall secured to the body, said body having an inflation port in communication with the receptacle, a non-return valve coacting with such port, said body having an opening therethrough from end to end, a plunger extending within the receptacle through said opening, said plunger being of a diameter less than the diameter of the opening to provide means for the escape of air within the receptacle, the wall of the container upon contraction, occurring upon deflation of

the receptacle, contacting with the inserted end



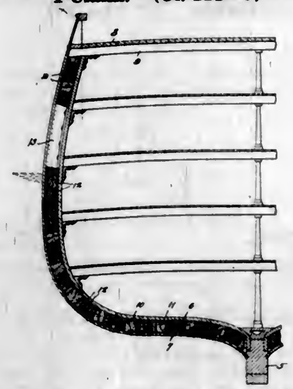
of the plunger and moving the plunger outwardly through the body.

2,278,938

ARMORED SHIP CONSTRUCTION

James Cravens McQuerry, Fort Worth, Tex.

Application April 16, 1940, Serial No. 329,988
1 Claim. (Cl. 114—9)



An armored ship's hull embodying spaced outer and inner shells, bales of fibrous material filling the space between the shells and the side edges and ends of the bales being inclined whereby the contacting surfaces of the adjacent bales overlap, anchoring the bales in position between the shells.

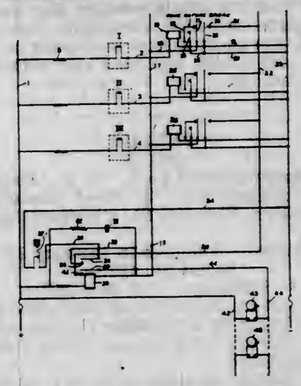
2,278,939

MANUAL FIRE ALARM SYSTEM

Manfred W. Muehter, Nutley, N. J., assignor to American District Telegraph Company, New York, N. Y., a corporation of New Jersey

Application April 2, 1938, Serial No. 199,594
5 Claims. (Cl. 177—311)

1. In combination, a transmitting station, a source of potential, an alarm connected to said source, an annunciator relay comprising a coil connected between said station and said source, a drop actuated by said relay coil, momentarily closed contacts operated by said relay coil and connected to the source, an alarm relay comprising a coil connected to said contacts and said source, a capacity shunt connected to said alarm relay coil for operating it and in series with said contacts, a pair of contacts connected in series with said alarm and operated by said annunciator relay coil for controlling said alarm, another pair of contacts connected in series with said alarm and in said alarm relay and another



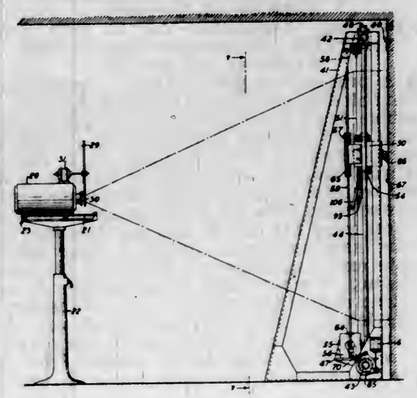
pair of contacts in said alarm relay and connected in series with said alarm relay coil and a switch for deenergizing said alarm relay coil.

2,278,940

PICTURE REPRODUCTION

Paul B. Murphy, South Nyack, N. Y., assignor to Western Electric Company, Incorporated, a corporation of New York

Application January 3, 1938, Serial No. 183,959
8 Claims. (Cl. 178—5.2)



1. Picture producing apparatus comprising an air brush having an electrically operated valve for regulating the flow of marking fluid thereto, and means for impressing upon said valve a periodically varying current modulated with respect to amplitude in accordance with tone values of successive elemental areas of a picture.

2,278,941

ALMONDS, PEANUTS, AND OTHER SIMILAR NUTS

Albert Musher, New York, N. Y., assignor to Musher Corporation, New York, N. Y., a corporation of New Jersey

No Drawing. Application October 25, 1941, Serial No. 416,585
10 Claims. (Cl. 99—126)

1. The process of toasting shelled, originally soft shell nuts, said process comprising subject-

ing the nuts to steam at an elevated temperature and pressure and thereafter suddenly releasing the nuts to a lower temperature and pressure.

5. A steam exploded, structure disrupted soft shell nut, the shell, kernel and germ of said nut being in said steam exploded and structure disrupted condition.

2,278,942

OLIVE

Albert Musher, New York, N. Y., assignor, by mesne assignments, to Food Manufacturing Corporation, Chicago, Ill., a corporation of New York

No Drawing. Application January 20, 1942, Serial No. 427,443
5 Claims. (Cl. 99—103)

1. A structure disrupted, steam exploded olive, said olive being in a moisture reduced condition, many of the oil cells of said olive being in a broken condition.

2. The method of treating an olive said method comprising substantially reducing the moisture of the olive, then subjecting the olive to steam at an elevated temperature and pressure, and then suddenly releasing to a substantially lower temperature and pressure.

2,278,943

PROCESS FOR THE PRODUCTION OF RUBBERLIKE BINDING AGENT FOR FIBER SUBSTANCES

Carl Ernst Willy Oesterreich, Berlin-Wilmersdorf, Germany

No Drawing. Application May 13, 1939, Serial No. 273,422. In Germany May 30, 1938
8 Claims. (Cl. 260—3)

3. A process for precipitating a rubber-containing binding agent upon fiber substances in an insoluble form which includes the rubber component, said process comprising the following steps: adding an alkali solution of a phenol-aldehyde resol to a dispersion of lecithin in hot water to form a hot solution; dissolving a substance selected from the group consisting of wood tar and wood tar oils in said hot solution, and cooling said solution; adding a water-soluble silicate, and a substance selected from the group consisting of mono- and di-saccharides to said solution; mixing the solution thus obtained with rubber latex; mixing the resulting solution with a fiber substance and adding to it a diluted solution of a precipitating agent selected from the group consisting of weak acids and acid-reacting salts.

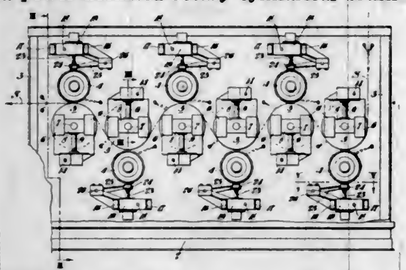
2,278,944

BRUSHING APPARATUS FOR METALLIC STRIP

Winfred M. Quigley and Ewart S. Taylerson, Pittsburgh, Pa., assignors to Carnegie-Illinois Steel Corporation, a corporation of New Jersey

Application April 28, 1939, Serial No. 270,699
1 Claim. (Cl. 15—77)

Apparatus for brushing metallic strip during its longitudinal movement comprising, in combination, a roll adapted to contact the metallic strip and deflect it into an arcuate path, a power actuated rotary cylindrical brush disposed adjacent said roll for contact with the arcuately deflected portion of said metallic strip, the length of said power actuated rotary cylindrical brush being at least as great as the width of the metallic strip, and means continuously in contact with said power actuated rotary cylindrical brush for



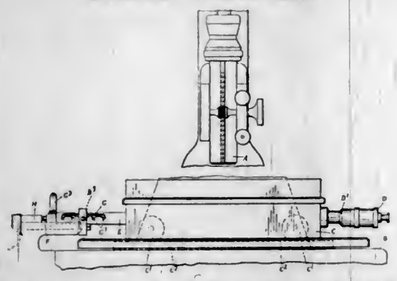
constantly abrading the brush to maintain a cylindrical brushing surface.

2,278,945

MICROMETER ADJUSTMENT DEVICE

Richard Edmund Reason and Thomas William Clifford, Leicester, England, assignors to Kapella Limited, Leicester, England, a company of Great Britain

Application October 5, 1940, Serial No. 359,944
In Great Britain October 12, 1939
9 Claims. (Cl. 33—181)



1. In a micrometer adjustment device, in combination, a base, means for mounting a microscope on the base, a carriage adjustable over said base, a micrometer mounted on said carriage, a fixed abutment on the base, an auxiliary stop member between the carriage and the fixed abutment, and at least one spring acting between the carriage and the base thus urging the carriage towards the fixed abutment, the auxiliary stop member being adjustable relatively to the fixed abutment so that a gauge block can be inserted between the abutment and the stop member and, on removal of the gauge block, the spring load, which would otherwise cause the carriage and micrometer to crash through a distance corresponding to the spacing effected by the gauge block, is taken by the auxiliary stop member.

2,278,946

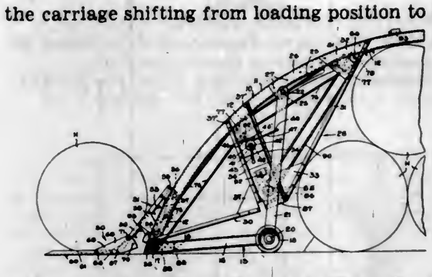
ARTICLE ELEVATING MACHINE

Harry F. A. Richard and Alonzo R. Evett, Norfolk, Va.

Application January 27, 1940, Serial No. 316,044
12 Claims. (Cl. 214—100)

1. An article-elevating machine, including an inclined trackway, the trackway being circularly arcuate throughout its length and extending laterally and upwardly from the ground or floor to a point of predetermined height, a carriage movable along the trackway from loading position at the floor or ground to unloading position at or adjacent the upper terminal of the trackway,

the carriage shifting from loading position to un-



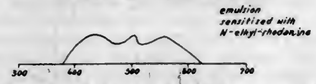
loading position at a uniform rate throughout its upward travel along the arcuate trackway.

2,278,947

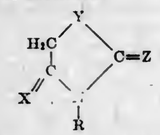
PHOTOGRAPHIC SILVER HALIDE EMULSION

Oskar Riester, Dessau, Germany, assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

Application October 11, 1940, Serial No. 360,771
In Germany November 13, 1939
4 Claims. (Cl. 95—7)



1. A photographic silver halide emulsion containing as a sensitizer a compound having the following general formula:



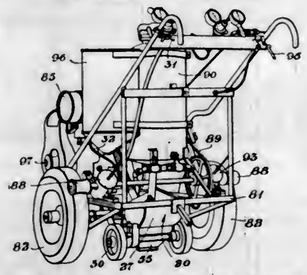
wherein X is a member selected from the class consisting of oxygen, sulfur, and selenium; Y and Z are members selected from the class consisting of sulfur and selenium; R is a member selected from the class consisting of alkyl, alkylene, cyclo-alkyl, aralkyl, aryl, amino-group, and N-alkylene-rhodanine.

2,278,948

SURFACE MARKING APPARATUS

Gilbert Rodli and Rufus W. Wilson, Huntingdon, Pa., assignors, by mesne assignments, to Prismo Holding Corporation, New York, N. Y., a corporation of New York

Application March 22, 1939, Serial No. 263,548
5 Claims. (Cl. 91—12)



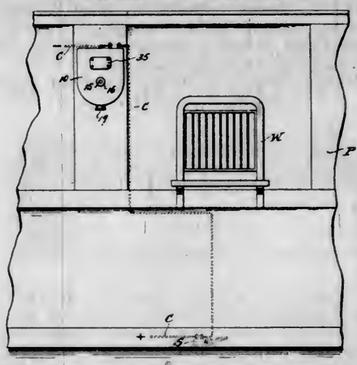
1. In line striping apparatus of the character adapted to fabricate an autocollimating marker on a surface to be marked, the marker comprising a reflecting binder and autocollimating units partially embedded in said binder so that approximately the lower halves thereof are within the reflecting binder and approximately the upper halves thereof are exposed so as to form a light entering surface, said apparatus comprising: a wet binder applicating means for fabricating a reflecting base of predetermined film thickness correlated to the size of said autocollimating units and including outer margin forming means for forming the outer margins of said marker whereby its width will be determined, an autocollimating unit dispenser comprising casing walls and a grooved measuring rotor located therein, said rotor having its axis disposed transversely of the marker to be formed, and a spout in operative association with said rotor and having walls forming a bottom opening facing the surface to be marked, wheeled frame means for supporting said applicating means and said dispenser, said dispenser being arranged to the rear of said applicating means in alignment therewith and within the longitudinal projection of said margin-forming means, the grooves of said rotor each being separated from each other by the walls forming the said grooves, the grooves extending in a direction generally axially of the rotor and the length of the grooved area of the rotor corresponding to the width of the marker loaded with autocollimating units, means for moving said apparatus along said surface to be marked and turning said rotor while correlating the speed of rotation of said rotor to the speed of said apparatus so that the units will be sufficiently spaced along the longitudinal axis of the marker whereby the autocollimating effect of the marker as a whole will be efficient.

2,278,949

IRRITANT GAS BOMB DISCHARGE MEANS

Frederick Sabini, Salem, N. J.

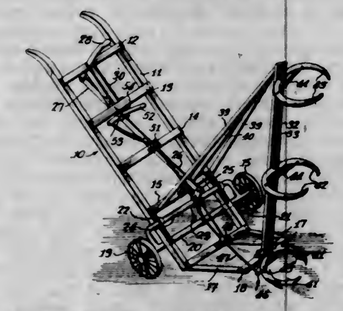
Application October 8, 1940, Serial No. 360,295
5 Claims. (Cl. 109—20)



1. For a hold-up and theft prevention system or the like, a device for storing and discharging a plurality of frangible bombs containing an irritant gas, said device comprising a casing, a rotary drum mounted within said casing, said drum having circumferentially spaced outwardly open radial pockets to carry said bombs, said casing having a wall conforming at least to the underside peripheral portions of the drum and disposed to lie contiguous thereto, said wall having a discharge passage through which the bombs may drop from the drum pockets as the latter move into alignment therewith, and electric motor driven transmission means within said casing for actuating said drum, a normally open elec-

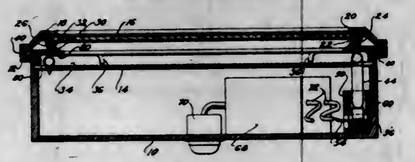
tric control circuit serving said motor including means remote from the casing to close said circuit as occasion may require, and means adjacent to the discharge passage for shattering a bomb about to be released therethrough.

2,278,950
HAMPER BASKET TRUCK
Joy Smart, Thomasville, Ga.
Application May 4, 1940, Serial No. 333,311
4 Claims. (Cl. 214—65.5)



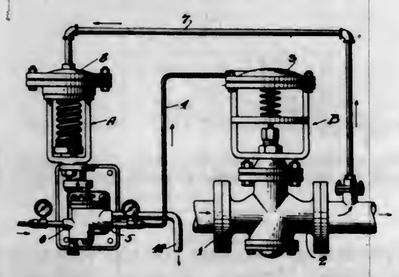
1. A hamper basket truck comprising a hand truck, a plurality of pairs of basket-embracing claw members for individually embracing a plurality of superposed baskets, bearing means in which said claw members are pivoted, brace means mounting said bearing means on said truck, yieldable means connecting said claw members and urging them toward each other to a basket embracing position, and control means withdrawing said claw members from each other to basket releasing position.

2,278,951
ILLUMINATED DIAL INSTRUMENT
Norman J. Smith, Medfield, and Walter L. Thomas, Lynn, Mass., assignors to Crosby Steam Gage & Valve Company, Boston, Mass., a corporation of Massachusetts
Application March 23, 1939, Serial No. 263,710
1 Claim. (Cl. 240—2.1)



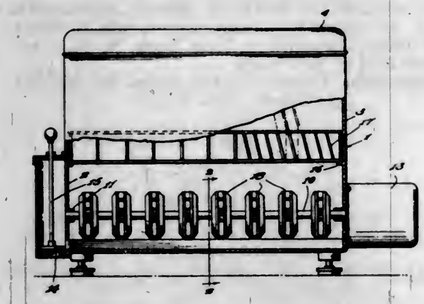
An illuminated dial instrument, comprising a case, a transparent front for the case, an indicating dial, an illuminating tube of generally circumferential form located between the dial and transparent front, a circumferential holder to which the tube is yieldingly clamped, the holder having a face extending inwardly and overlying the tube closely adjacent thereto and shielding it from the direct vision of the observer, the inner face of the holder adjacent the tube having a reflecting surface, means for rigidly securing the holder to the case, terminal legs projecting outwardly from the plane of the tube, means upon the holder for engagement with the terminal legs and accurate positioning of the tube, and terminal contacts located behind the dial within the case and designed to be engaged by the terminal legs of the tube when the holder is connected to the case.

2,278,952
PILOT VALVE
Sten E. B. Soderberg, Passaic, N. J., assignor to Leslie Company, Lyndhurst, N. J.
Application January 13, 1939, Serial No. 250,680
18 Claims. (Cl. 50—10)



1. In a pilot valve, a casing, a diaphragm closing the upper end, a second diaphragm parallel to the first and dividing the interior into two portions, a duct leading from the portion between the diaphragms, an inlet to and a duct from the portion below the second diaphragm, a perforated element extending through and carried by the second diaphragm and establishing communication between the two portions, an adjustable stop limiting the upward movement of the second diaphragm, a valve controlling said inlet and resiliently urged against a fixed seat, means whereby downward movement of said second diaphragm opens said valve, a valve mounted on said first diaphragm and controlling the perforation through said element, the relation of the parts being such that when the upper diaphragm is forced downward the valve mounted on it engages its seat on the perforation, further movement moves the lower diaphragm away from its stop, and through a predetermined distance, whereafter further movement opens the inlet valve.

2,278,953
DISHWASHER AND IMPELLER THEREFOR
Gordon E. Stockham, Piqua, Ohio
Application May 11, 1939, Serial No. 273,101
2 Claims. (Cl. 299—63)

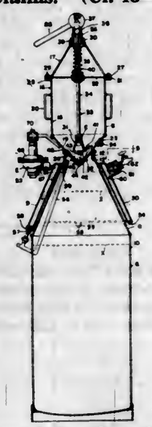


1. In a dish washer, a rotatable impeller including a pair of disks concave in section, a blade, and means connecting the disks to the blade, said blade having a hub and curved blade sections adapted for projecting streams of liquid tangentially with respect to the impeller upon rotation thereof.

2,278,954
COATING AGGREGATE WITH BITUMEN
Robert R. Thurston, Chappaqua, N. Y., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Application October 5, 1940, Serial No. 359,979
8 Claims. (Cl. 106—275)

1. In a method of coating mineral aggregate, the improvement which comprises treating the aggregate with a dilute solution of an alkali metal salt of petroleum hydrocarbon-aromatic sulphonic acids prior to contacting the aggregate with bituminous material.

2,278,955
ACETYLENE GENERATOR
Eber H. Van Valkenburg, Highland Park, Mich., assignor to Century Engineering Company, Center Line, Mich., a corporation of Michigan
Application January 8, 1940, Serial No. 313,009
11 Claims. (Cl. 48—53.3)



1. A generator of the class described having a gas generating chamber provided with a frustoconical dome portion, a substantially frusto-conical water jacket mounted on said dome portion and provided at substantially diametrically opposite points thereof with an inlet and an outlet for gas, and means for conducting gas from the dome portion of said chamber to the inlet of said jacket.

2,278,956
BUILDING CONSTRUCTION
Martin Wagner, Cambridge, Mass.
Application September 18, 1940, Serial No. 357,268
18 Claims. (Cl. 20—2)



1. A substantially hemispherical building structure formed from a plurality of pre-formed panels shaped substantially in the form of a spherical triangle and being secured together along their vertical edges, each panel comprising a frame and a plurality of superimposed wall forming sheets, of substantially the same size as the frame, carried thereby.

2,278,957
WHITE LIGHTWEIGHT AGGREGATE
John Walker and William Ungericider, Easton, Pa.
No Drawing. Application May 17, 1939, Serial No. 274,282
4 Claims. (Cl. 106—71)

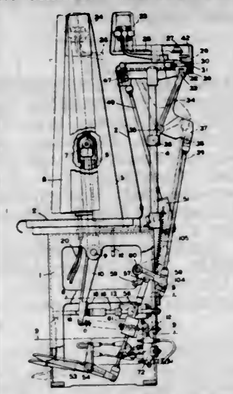
4. An aggregate comprising the product obtained by calcining a mixture of flint kaolin and white burning kaolin, combustible organic material, and at least one substance selected from the group consisting of oxide of calcium, magnesium, sodium, and boron.

2,278,958
PISTON
Percy White, Eric Dennis, and Arthur Villeneuve Nicolle, Twickenham, England, assignors to The Automotive Engineering Company Limited, Twickenham, England
Application March 4, 1941, Serial No. 381,734
In Great Britain July 12, 1940
7 Claims. (Cl. 309—14)



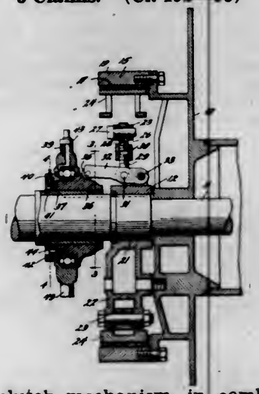
1. A light metal or alloy piston wherein the bearing surface of a piston ring therefor is provided by a plurality of inserts separated circumferentially by the metal of the piston and made up of a material harder than that of the piston body and capable of affording a satisfactory wear resisting surface for the piston ring.

2,278,959
GUSSET IRONING ATTACHMENT
Jewel B. Williams, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a corporation of Ohio
Application May 11, 1939, Serial No. 272,993
17 Claims. (Cl. 223—57)



1. A sleeve ironing machine, comprising an expansible sleeve supporting form, two pressure plates adapted for application to opposite sides of said form, means for expanding the form, and means for operating said plates comprising a movable carrier on which said plates are mounted and adapted by its motion to move them into and out of registering relation with said form, each plate being movably mounted upon its carrier for movement into and out of ironing relation with the form.

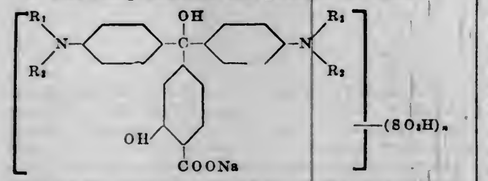
2,278,960
ADJUSTING DEVICE FOR CLUTCH ELEMENTS AND THE LIKE
John Hart Wilson, Wichita Falls, Tex.
Application December 7, 1939, Serial No. 308,085
3 Claims. (Cl. 192—93)



2. In a clutch mechanism, in combination, a driven member having a cylindrical clutch surface, a driving member, a plurality of radially movable elements associated with said driving member and adapted to be thrust outwardly to frictionally engage the clutch surface of the driven member, a cam movable in a path, and rotatable about an axis, perpendicular to the plane in which said elements are radially movable, for actuating the latter, and cam followers associated with said elements and engaging said cam, said cam having a plurality of similar surfaces arranged in a circular series, one for each element, each said cam surface being sloped both axially and circumferentially, and the weight of said cam being substantially evenly distributed about said axis, said cam being rotatable relatively to said elements whereby the points of engagement of said cam and said cam followers may be adjusted radially.

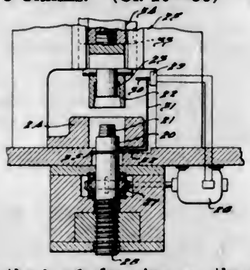
2,278,961
TRIARYLMETHANE DYESTUFFS AND PROCESS OF PREPARING THEM
Paul Herbert Wolff, deceased, late of Frankfort-on-the-Main-Hochst, Germany, by Richard Wenzel, administrator, Frankfort - on - the-Main-Hochst, Germany, and Karl Frank, Frankfort-on-the-Main-Hochst, Germany, assignors to General Aniline & Film Corporation, a corporation of Delaware
No Drawing. Application December 21, 1938, Serial No. 247,051. In Germany April 30, 1938
8 Claims. (Cl. 260—394)

5. The compounds of the general formula:



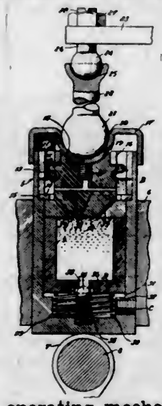
wherein R_1 means a member of the group consisting of hydrogen, alkyl groups and substituted alkyl groups, R_2 means a member of the group consisting of alkyl groups and substituted alkyl groups and n is a number selected from the group consisting of 1 and 2.

2,278,962
NUT AND METHOD OF MANUFACTURING THE SAME
Leonard A. Young, Detroit, Mich.
Application May 3, 1940, Serial No. 333,191
3 Claims. (Cl. 10—86)



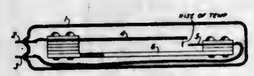
1. The method of forming a threaded nut which comprises forming a flat blank provided with a tongue on one end and a mating groove at the opposite end, bending said blank to form a hollow substantially cylindrical member having the tongue engaged in said groove, placing said blank in an upsetting die having a threaded mandrel therein and upsetting said blank to interlock said tongue and groove and to form from the blank a nut having a predetermined exterior contour and a threaded tapered opening, removing said threaded mandrel from said nut, and thereafter ejecting said nut from the upsetting die.

2,278,963
VALVE OPERATING MECHANISM
Ilmari E. Arola, Worcester, Mass.
Application November 6, 1939, Serial No. 303,138
3 Claims. (Cl. 123—90)



1. A valve operating mechanism of the character described comprising a hollow substantially cylindrical-shaped member closed at its bottom end and adapted to be reciprocated within a casing, a piston slidably held within said member, said piston being formed with a chamber for housing a fluid, the side walls of the said cylindrical member adjacent the bottom end thereof extending inwardly to form a chamber beneath said piston with the inwardly extending walls forming a stop for said piston, the said piston having a passage providing restricted communication between the said chambers, spring means within the chamber beneath the piston adapted to be compressed upon upward movement of said member for urging said piston upwardly, a plunger for the upper end of said piston serving as a closure for the same, closure means mounted slidably over the upper end of the said cylindrical member and in contact with the said plunger and means engaging the said closure means for operating the valve upon movement of the said cylindrical member.

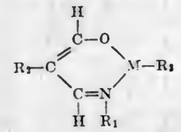
2,278,964
GAS TUBE
Robert H. Badgley, Morris Plains, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 29, 1940, Serial No. 354,682
1 Claim. (Cl. 250—27.5)



An electron circuit closing tube responsive to the temperature of the ambient atmosphere comprising a sealed tubular envelope encasing a pair of electrodes immersed in an inert gas and mounted substantially along the axis of said tubular envelope, a first of said pair of electrodes comprising a bimetallic strip responsive to changes in the temperature of the external ambient atmosphere having one end secured and the other end free to move to approach but not to make contact with the other of said electrodes, and a second of said pair of electrodes comprising a comparatively short and stiff conducting element immovably secured and forming a gap between the free end of said first electrode and said second electrode, said first electrode being secured in a position whereby movement of the free end thereof will change the dimensions of said gap, and electrical conductors connected to said electrodes being sealed through said envelope for external circuit connections.

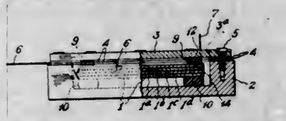
2,278,965
METAL DERIVATIVES OF AMINO METHYLENE ALDEHYDES
Adrianus Johannes van Peski, Nicolas Max and Johannes Andreas van Melsen, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Original application February 11, 1939, Serial No. 255,874. Divided and this application September 5, 1939, Serial No. 293,426. In the Netherlands February 22, 1938
6 Claims. (Cl. 260—429)

1. A metal derivative of an amino methylene aldehyde containing the structure



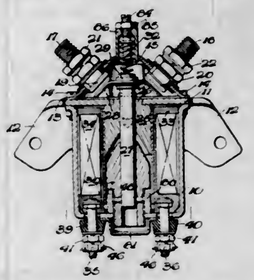
wherein R_1 and R_2 each represent a substituent of the group consisting of the hydrogen atom, the hydrocarbon radicals, and the substituted hydrocarbon radicals wherein the substituent is a member of the group consisting of the chlorine and bromine atoms and the amino, hydroxy, alkoxy and thiol radicals, M represents an atom of a heavy metal and R_3 represents a hydrocarbon radical.

2,278,966
PIEZOELECTRIC APPARATUS
Alfred L. W. Williams, Cleveland Heights, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio
Application November 14, 1938, Serial No. 240,261
8 Claims. (Cl. 171—327)



1. A piezo-electric device comprising a support, a flexing type piezo-electric unit having a pair of substantially parallel faces, anti-friction means disposed between said unit and said support comprising a pair of metal plates disposed substantially in parallelism and spaced apart by a metal ball, the first of said plates engaging a face of said unit and the second of said plates engaging said base, and yielding means disposed adjacent the other face of said unit opposite said first plate and adapted to urge said unit toward said support.

2,278,967
ELECTROMAGNETIC MECHANISM
Joseph W. Allen, East Orange, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application January 22, 1941, Serial No. 375,505
2 Claims. (Cl. 175—341)

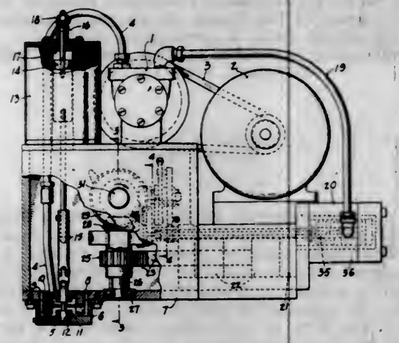


2. In a solenoid, a magnetic shell having a pole-piece fixed thereto, a second pole-piece movable in relation to said shell, a sleeve secured to and surrounding said second pole-piece and fitting closely within said first-named pole-piece so that the latter acts as a guide-bearing for said second pole-piece and its sleeve, and means extending transversely of said second pole-piece for securing said sleeve thereto, said transverse means having end surfaces in direct contact with said first pole-piece, for magnetic continuity therewith.

2,278,968
AUTOMATIC ARC WELDING HEAD
Perry Anderson, Wauwatosa; Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application August 8, 1940, Serial No. 351,870
1 Claim. (Cl. 219—8)

In an automatic feeding device for arc welding electrodes, fluid pressure operated feeding mechanism, a pump for supplying fluid under pressure directly to said mechanism, and a control valve responsive to a characteristic of the arc to regulate the supply of fluid to said pump, said valve being subjected to less than a maximum fluid pressure differential approximating

the difference between the pressure of the fluid



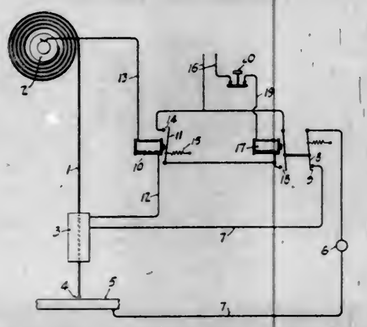
at its source and the pressure at the inlet to said pump.

2,278,969

WELDING HEAD PROTECTIVE DEVICE

Perry Anderson, Wauwatosa, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York

Application January 28, 1941, Serial No. 376,313
7 Claims. (Cl. 219—8)



7. In electric welding apparatus employing a metallic weldrod, a contact for conveying welding current to the metallically conducting part of the weldrod at a point near to the welding operations, means to detect an increase in the potential drop between said contact and weldrod, and means responsive to said first named means for indicating such increase to the operator when said voltage drop exceeds a predetermined amount.

2,278,970

MICA CONTAINING PIGMENT AND METHOD OF MAKING THE SAME

Francis Clarke Atwood, Newton, Mass., assignor to Atlantic Research Associates, Inc., Newtonville, Mass., a corporation of Delaware

No Drawing. Application January 23, 1940, Serial No. 315,275
22 Claims. (Cl. 106—148)

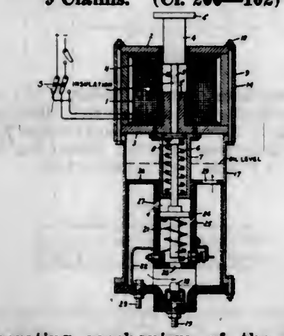
1. A composite pigment for use as an ingredient of a coating composition comprising a pigment and a substantial proportion of mica intimately associated with the pigment, said mica comprising flakes at least 90% of which are not over 2 microns in thickness.

2,278,971

ELECTROMAGNETIC APPARATUS

Eugene W. Boehne, Drexel Hill, Pa., assignor to General Electric Company, a corporation of New York

Application December 31, 1938, Serial No. 248,783
9 Claims. (Cl. 200—102)



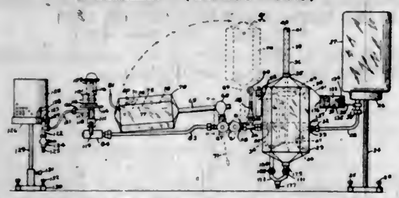
1. Operating mechanism of the high speed magnet release type comprising magnetic structure including a permanent magnet having a large magnetomotive force and a relatively movable armature arranged to complete a magnetic circuit, and spring means for biasing said armature toward an open magnetic circuit position to effect a positive working stroke, said armature having a holding surface disposed substantially normal to the direction of motion thereof for coacting with a similar holding surface on said structure, said coacting holding surfaces being adapted to abut in the holding position thereof, and a surface substantially parallel to said direction of motion, said parallel surface being non-holding and closely spaced with respect to the coacting normal holding surfaces of said magnetic structure and armature so that comparatively slight initial movement of said armature from said closed magnetic circuit position under influence of said spring bias effects transfer of the holding flux to said non-holding parallel surface for facilitating high acceleration of the armature opening movement.

2,278,972

APPARATUS FOR LIQUID FUEL BURNING STOVES

Jerry G. Candido, New Haven, Conn.

Application September 8, 1939, Serial No. 294,024
2 Claims. (Cl. 158—46.5)



1. In a liquid fuel burner apparatus in combination, a burner, a tank comprising a body having one side connected to a key-way valve, the opposite side connected to a conduit, valve stems in said body, each of the valve stems having segmental gears on one end and adapted for rotating the valve stems in a clock- and anti-clockwise direction, one of said valve stems having a plurality of openings, one of said openings being of a reduced diameter, the other of said valve stems having a groove and a channel communicating with said groove, a housing on the opposite end of said valve stem having a channel in communication with the channel in the valve stem, a tube carried by the housing and in communication with the channel in the housing, a valve in one end of the tube and a reserve reservoir on the opposite end, said reserve reservoir having a vent and a float pivotally mounted therein, said float provided with means for engagement with said vent, said float being disengaged from said vent when said reserve reservoir is moved to a vertical position, the valve stems realigning some of the openings in said stems permitting liquid fuel to flow to said burner.

2,278,973

VAT DYE PREPARATIONS

Clifford Edward Carr, Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 10, 1939, Serial No. 278,407
9 Claims. (Cl. 260—316)

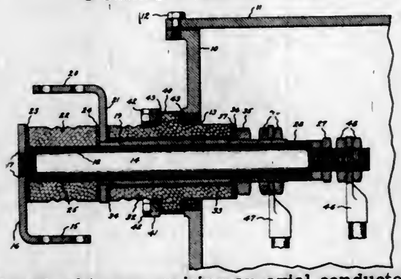
1. In the process for preparing dye pastes and powders of anthraquinone vat dyestuffs of the group consisting of those containing the pyrene, perylene and anthrimide-carbazole nucleus which nucleus is in a condensed ring system containing the quinoid structure, in a uniformly fine, micro-crystalline form the steps which comprise dissolving said dyestuffs in concentrated sulfuric acid, adding a sufficient quantity of a hydrated salt of a metal whose sulfate is water soluble to the acid solution to precipitate substantially all of the dyestuff, and separating out the micro-crystalline dyestuff so precipitated.

2,278,974

BUSHING FOR ENCASED ELECTRICAL APPARATUS

Paul L. Christensen, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application May 2, 1940, Serial No. 332,981
3 Claims. (Cl. 174—167)



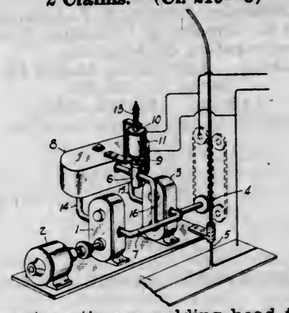
3. A bushing comprising an axial conductor, a tubular conductor concentrically surrounding and spaced from said axial conductor, means including a tubular insulator filling and sealing substantially fluid tight the space between said conductors, conductive means defining annular shoulders around one pair of corresponding ends of said conductors, a solid insulating spacer surrounding said axial conductor between said shoulders, an insulating sleeve around said axial conductor at the end opposite said shoulder, a nut on said axial conductor forcing said sleeve against the adjacent end of said tubular conductor clamping said spacer tightly between said shoulders, a solid insulating member surrounding said tubular conductor in a substantially fluid tight relation therewith, and a nut on said tubular conductor clamping said member tightly against the opposite surface of said shoulder thereon with respect to said spacer.

2,278,975

AUTOMATIC ARC WELDING HEAD

William E. Crawford, Wauwatosa, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York

Application July 22, 1940, Serial No. 346,746
2 Claims. (Cl. 219—8)



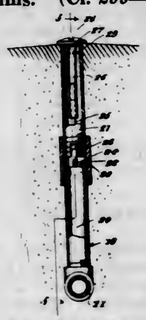
2. An automatic arc welding head for feeding substantially continuous lengths of welding electrode to a welding arc, comprising a reservoir for relatively incompressible power fluid, a positive displacement pump to provide a flow of power fluid, means to supply power fluid to said pump from said reservoir, a closed return circuit for power fluid from said pump to said reservoir, a positive displacement motor disposed in said return circuit to be operated by the power fluid passing therethrough to drive the feeding mechanism for said welding electrode, and a control valve responsive to a characteristic of the welding arc to vary the supply of fluid passing directly to said motor from said pump to regulate the rate of feed of the electrode.

2,278,976

STREET WASHING APPARATUS

John J. Crume, Amarillo, Tex.

Application May 16, 1940, Serial No. 335,618
2 Claims. (Cl. 299—61)



1. A device of the class described comprising a flushing element, the flushing element comprising an upper section having a discharge end and a lower section, a coupling for the sections, a valve carried by the upper section and having a closure valve head overhanging the discharge end of the upper section, guiding means for holding the valve against lateral play within the upper section, the valve having a shank, a stem

threaded in the shank, a ring carried by the stem, slots formed in the lower end of the upper section receiving the ring for adjustably limiting the upward movement of said stem and valve, and the upper end of the lower section arranged in close proximity to the lower end of the upper section and constituting a stop for engaging said ring and preventing said ring from dropping out of said slots.

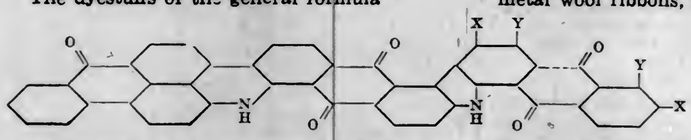
2,278,977

DYESTUFFS OF THE ANTHRAQUINONE SERIES

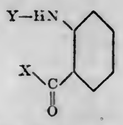
William Dettwyler, Pitman, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 16, 1939, Serial No. 290,383
1 Claim. (Cl. 260—276)

The dyestuffs of the general formula



in which one X and Y represent the benzacridone radical



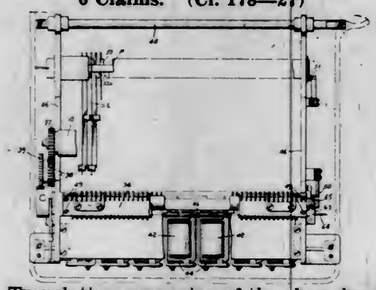
and the remaining X and Y are hydrogen, which dissolves in concentrated sulfuric acid with a green color and dye cotton from an alkaline hydrosulfite vat in gray to olive shades.

2,278,978

TRANSLATING MECHANISM

Charles R. Doty, Yonkers, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application August 25, 1939, Serial No. 291,912
6 Claims. (Cl. 178—27)



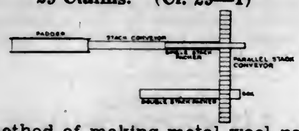
1. Translating apparatus of the class described comprising, in combination, a plurality of control magnets, permutation bars adjacent said magnets and positionable thereby, a plurality of character selection levers, a plurality of seeker arms having pin and slot connections with said character elements and coacting with the permutation bars so as to render one of the seeker levers operative and the remainder inoperative upon positioning of the bars by the magnets, and a cyclically operating stepped cam for engaging the seeker lever in operative position to impart movement thereto in one direction to effect printing and to move said seeker lever in a transverse direction to release it from the cam at a predetermined time in the cycle.

2,278,979

METHOD OF AND APPARATUS FOR MANUFACTURE OF METAL WOOL PADS

Crosby Field, Brooklyn, N. Y., assignor to Brillo Manufacturing Company, Inc., a corporation of New York

Application December 24, 1938, Serial No. 247,727
29 Claims. (Cl. 29—1)



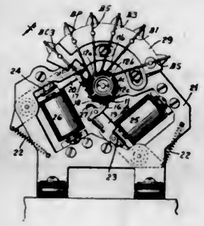
1. A method of making metal wool pads from metal wool ribbons, which method includes successively stretching lengths of ribbon to approximately the same predetermined tension, cutting off successive substantially equal lengths thereof while under such tension, and when released from such tension, loosely winding each length of ribbon, to fluffy, cylindrical form, and highly compressing the fluffy cylinder to flatten the same and form a relatively dense pad of predetermined shape.

2,278,980

IMPULSE DISTRIBUTING MEANS

Clyde J. Fitch, Endwell, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application December 18, 1940, Serial No. 370,676
4 Claims. (Cl. 178—53.1)



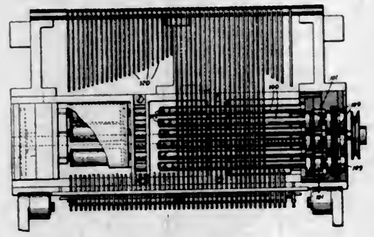
1. An impulse distributing means of the character described comprising, in combination, a plurality of sets of conducting segments, a plurality of sets of stationary brushes arranged in arcuate relationship with the said sets of conducting segments, each set of brushes adapted to engage the segments of the related set in predetermined order, a common shaft including a ratchet wheel for supporting the said sets of conducting segments, a pair of electromagnets, and means controlled by said magnets, upon alternate energization thereof, for cooperating with the ratchet wheel to effect step by step advancement of the conducting segments thereby presenting the latter to said related brushes in a predetermined order.

2,278,981

TELEPRINTER UNIT

Clyde J. Fitch, Endwell, and Kurt R. Schneider, Endicott, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application December 18, 1940, Serial No. 370,677
4 Claims. (Cl. 178—33)



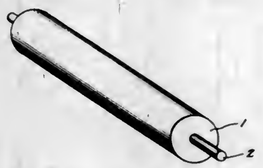
1. A device of the character described controlled by variably timed groups of signals comprising, in combination, a plurality of normally inoperative rotatable permutation members, means capable of rotating the said members upon the release of the latter, a plurality of control members, means to effect selection of certain of the control members during the rotation of the permutation members control magnets, one for each permutation member, means controlled by the magnets for storing the code groups of signals, and means, effective upon receipt of each group of signals, for effecting release of combinations of permutation members, simultaneously, in accordance with the stored signals.

2,278,982

PRINTING ROLL

Per K. Frolich, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application December 30, 1938, Serial No. 248,528
15 Claims. (Cl. 91—67.8)



1. An ink roller comprising a body of sulfurized isobutylene-butadiene polymer material.

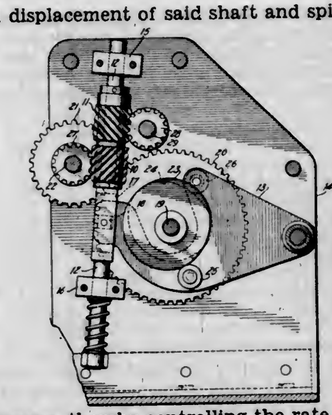
2,278,983

VARIABLE SPEED TRANSMISSION DEVICE

Frederick L. Fuller, West Orange, N. J., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application November 5, 1940, Serial No. 364,386
5 Claims. (Cl. 74—393)

1. A variable speed transmission device comprising a rotatable driving member and a driven member, an axially displaceable shaft, spiral gearing means, rotatably mounted on said shaft, actuated by the driving member, upon rotation thereof, for controlling the operation of said driven member, a cam element actuated by the said driving member, and cam follower means controlled by said cam element for controlling the axial displacement of said shaft and spiral gearing means, thereby controlling the rate of operation of the said driven member.

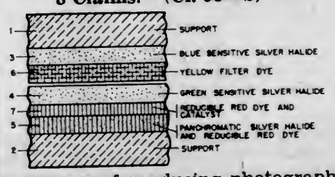


2,278,984

METHOD OF TREATING COLOR PHOTOGRAPHIC MATERIALS

Béla Gáspár, Hollywood, Calif., and Laszlo Schwarc, Brussels, Belgium, assignors, by direct and mesne assignments, to Chromogen, Incorporated, a corporation of Nevada

Application March 27, 1940, Serial No. 326,270
In Great Britain March 29, 1939
8 Claims. (Cl. 95—2)



1. The process of producing photographic dye images from a photographic multilayer film comprising at least two colloid layers on a single support, one of said colloid layers being uniformly dyed with a dye for the production of a dye image within said layer, said dye being destroyable with a reducing agent, another of said colloid layers being uniformly dyed with substantially the same dye, at least the first of said layers comprising a photographic silver image, the multilayer film further comprising a substance which is capable of influencing the bleaching speed of said reducing agent with respect to said dye and selected from the group which consists of speed retarding agents present in the first-named layer and reduction catlysts present in the second-named layer, which comprises treating said two layers with said reducing agent to destroy thereby completely the dye by reduction within said second layer only and thereafter treating said film with the solution of a substance which is capable of destroying the dye by reduction in the presence of metallic silver only to produce thereby a dye image in the first layer with the aid of the silver image and removing the silver image.

2,278,985

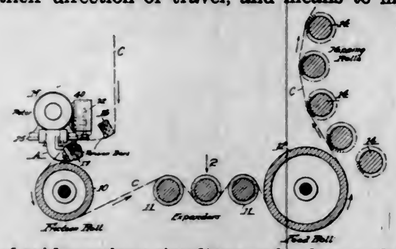
UNCURLING ATTACHMENT FOR NAPPING MACHINES

David Gessner, Worcester, Mass.

Application January 6, 1941, Serial No. 373,331
5 Claims. (Cl. 26—1)

5. An uncurling attachment for a cloth finish-

ing machine comprising a plurality of separate rigid cloth-engaging uncurling members, a flexible suspension device to which all of said uncurling members are attached in spaced relation in their direction of travel, and means to move



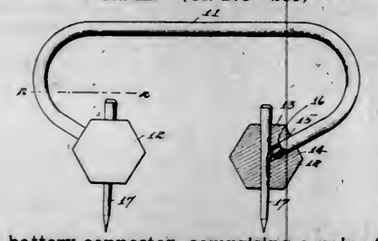
all of said members simultaneously along a closed path and to thereby slide said members successively along the cloth toward a side edge of the cloth as the cloth approaches the cloth finishing mechanism.

2,278,986

BATTERY CONNECTOR

S E Gibbs, Corydon, Iowa

Application December 13, 1939, Serial No. 309,026
1 Claim. (Cl. 173—259)



A battery connector, comprising a pair of terminal heads, each having a tapered opening between two opposite faces and a branch opening connected therewith, an electric conductor, an insulator covering said conductor between said terminal heads, formed of flexible and compressible material contracted longitudinally, with the ends of said insulation yieldably held against the adjoining faces of said terminals, with the ends of said conductor projecting through said branch openings and terminating in said tapered openings, a tapered pin for each of said openings wedging the ends of said conductors therein, the ends of said pins projecting laterally from their respective terminal heads, one end of each pin being pointed.

2,278,987

COMPOUNDS OF THE DIBENZANTHRONE SERIES

Donald P. Graham, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 22, 1940, Serial No. 366,699
3 Claims. (Cl. 260—355)

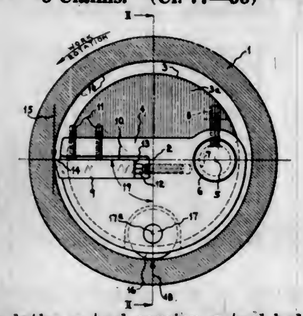
1. The mono-sodium salt of Bz-2:Bz-2'-dihydroxydibenzanthrone which is a highly crystalline product said crystals being in the form of long needles which are brownish-olive in color by transmitted light and which are bright green in color by reflected light, said product being stable against hydrolysis on being washed with cold distilled water until it is substantially alkali free and which is reactive to alkylating agents after being stored for long periods of time.

2,278,988

BORING TOOL HOLDER

Willard L. Groene, Cincinnati, Ohio, assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware

Application July 24, 1940, Serial No. 347,338
8 Claims. (Cl. 77—58)



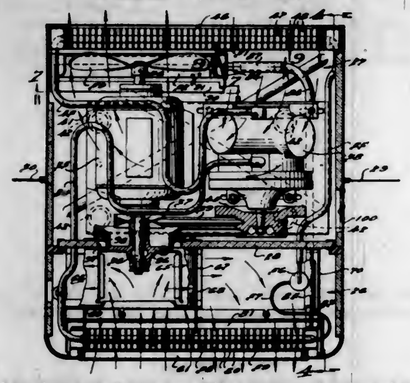
1. In a lathe, a tool carrier, a tool holder pivotally mounted on the said tool carrier, a cutting tool in said tool holder, said axis of pivoting of said tool holder and the cutting edge of said tool lying in a plane passing through the axis of rotation of said lathe, and means on said tool holder for engaging a work piece to be bored by the tool in said tool holder.

2,278,989

MOISTURE DISPOSAL SYSTEM FOR AIR COOLED AIR CONDITIONING UNITS

Jerry M. Gruitch, Dayton, Ohio, assignor to Chrysler Corporation, Detroit, Mich., a corporation of Delaware

Application November 13, 1939, Serial No. 304,018
1 Claim. (Cl. 62—140)



An air cooled air conditioning unit comprising air conditioning surfaces upon which moisture is condensed from the air being conditioned, collecting means in which to collect such condensed moisture, a condenser coil in which refrigerant is condensed by causing a stream of air to traverse the same, a compressor in refrigerant flow relationship with said surfaces and said condenser coil, a motor connected to said compressor, a propeller for producing the condenser-cooling stream of air, said propeller being positioned adjacent a portion of said condenser coil and being so arranged as to blow outward through said portion and to draw air through another portion of said coil to be heated thereby and to be further heated by cooling said motor

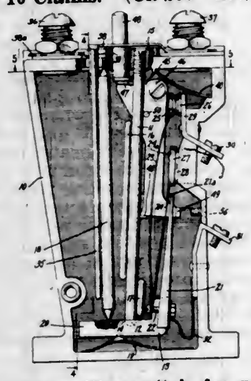
and said compressor, a circular shroud surrounding said propeller, a moisture disposal pan beneath said propeller and in which said circular shroud is mounted with a segment thereof below the edge of the pan, said pan being below said collecting means for the condensed moisture, and a connection between said collecting means and said disposal pan for draining condensed moisture into said pan, whereby condensed moisture is collected on the inner surface of said segment, agitated by said propeller and blown upward along said shroud and away from the forward edge of said shroud in the form of fine droplets, some of which lodge on the surfaces of the condenser coil through which the outwardly directed stream of heated air is passing to be evaporated by the heat thereof, some of which are evaporated in the heated air, and some of which are carried away in the outgoing air stream, and means associated with said shroud for returning to said pan any drops of water forced back toward the interior of said unit off the inlet end of said shroud comprising a plurality of holes in the inlet end of said shroud, spaced above the portion thereof within said pan in the direction of rotation of said propeller whereby any drops of water which might otherwise fall back into the unit are trapped and returned to said pan.

2,278,990

THERMAL SWITCH

Chester I. Hall, Rexford, N. Y., assignor to General Electric Company, a corporation of New York

Application October 21, 1941, Serial No. 415,929
10 Claims. (Cl. 200—122)



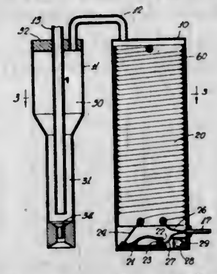
6. A thermosensitive switch for protecting an electric circuit comprising a base of insulating material having a plurality of side walls forming a container, a fixed contact mounted upon one of said walls, a substantially right angular movable switch member having a pair of legs disposed in substantially parallel spaced relation to adjacent walls of said container, a substantially nonexpansible supporting rod adjustably mounted in a wall adjacent said one wall of said base and extending inwardly therefrom, spring means for biasing one of said legs into pivotal engagement with said supporting rod, an expansible rod disposed in substantially parallel spaced relation to said supporting rod and pivotally engaging said base and said one leg, the other leg of said switch member including a pair of flexible portions and a rigid portion connected together at one end and extending in substantially parallel spaced relation, a movable contact mounted upon the outer end of a first of said flexible portions and arranged to engage said fixed contact, a keeper of magnetizable material mounted upon the outer end of the second of said flexible portions, the outer end of said second flexible portion being formed to provide a first projection arranged to engage said first flexible portion adjacent said movable contact, a permanent magnet mounted upon said base and arranged to engage and releasably to retain said keeper thereby to bias said contacts into engagement, a second projection on the outer end of said rigid portion engaging said second flexible portion adjacent its end, and electric heating means responsive to the current in said circuit for heating said expansible rod, whereby said keeper is released from said magnet by pressing engagement of said second projection with said second flexible portion and said second flexible portion is moved with a snap action to strike said first flexible portion and to disengage said contacts.

2,278,991

DEVICE FOR RAISING AND AERATING LIQUIDS

Carl A. Hasslacher, Scarsdale, N. Y., and Henry W. Rimbach, Jersey City, N. J., assignors to Technico, Incorporated, New York, N. Y., a corporation of Delaware

Application July 15, 1939, Serial No. 284,641
2 Claims. (Cl. 103—235)



1. In a device for raising and aerating liquids used in the cultivation of plants, an air chamber, an electric heating element in said chamber, a switch for periodically supplying electric current to said element and cutting it off therefrom, an aperture for permitting the inflow of air to said chamber adapted to substantially prevent the rapid outflow of air therefrom, a liquid chamber, a passageway connecting said chambers, a discharge pipe from said liquid chamber, and an aperture for permitting the inflow of liquid to said liquid chamber adapted to substantially prevent the rapid outflow of liquid therethrough from said chamber.

2,278,992

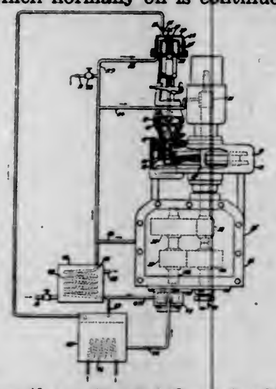
POWER PLANT

John R. Henderson, Swampscott, Mass., assignor to General Electric Company, a corporation of New York

Application September 13, 1939, Serial No. 294,640
2 Claims. (Cl. 253—39)

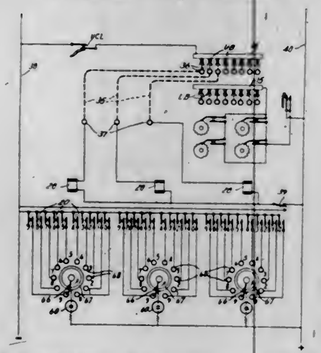
1. Elastic fluid turbine power plant including a turbine, a hydraulic governing mechanism having a bellows type motor for controlling the turben and an oil supply system connected to the motor, and comprising a supply pipe and a drain pipe with a restricted portion for normally continuously circulating oil under pressure through the motor and means effecting substantially complete draining of oil from the system upon shut-

down of the turbine comprising said drain pipe through which normally oil is continuously dis-



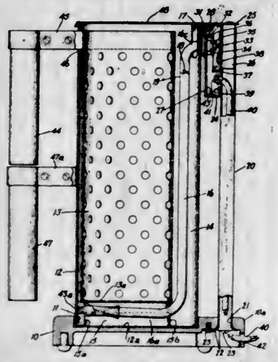
charged from the motor and through which upon shut-down air is admitted to the motor.

2,278,993
RECORD CONTROLLED INDICATING MECHANISM
Reynold B. Johnson, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application January 23, 1940, Serial No. 315,176
2 Claims. (Cl. 177—337)



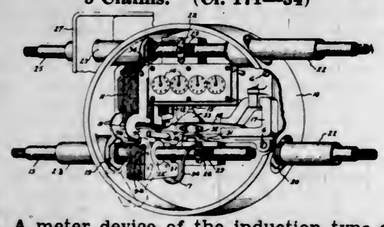
1. An indicating device comprising an opaque cylinder having a plurality of like rings of translucent characters about its periphery, said rings being arranged in parallel with corresponding characters in the several rings lying on a common line parallel to the axis of said cylinder, a stationary shield with a window therein, said window extending across all the rings of characters, a separate flash lamp for each ring, said lamps being located within the cylinder so that each lamp illuminates only its related ring of characters, means for rotating the cylinder at a rate of about sixteen revolutions a second so that in each ring the characters appear at the window in rapid succession, with corresponding characters in all rings appearing concurrently, a plurality of selectively settable devices, one for each ring and each settable in accordance with any character in its related ring, a timing device for each ring coordinated with said moving means and means controlled by said timing devices and said settable devices to cause the repeated flashing of each lamp when the selected characters in the related rings are at the common window whereby the several selected characters appear as a single stationary transilluminated line of characters forming a composite of all the characters.

2,278,994
ELECTRIC HEATER
Leslie A. Kempton, Chicago, Ill., assignor to Edison General Electric Appliance Company, Inc., Chicago, Ill., a corporation of New York
Application April 22, 1941, Serial No. 389,783
9 Claims. (Cl. 219—38)



1. An electric heater comprising a fixed support, a heater relatively movable with reference to said support, a control switch for said heater operable by the relative movement between said heater and support for establishing an energizing circuit for said heater when said members are moved to one relative position and to break said circuit when said members are moved to another relative position, means biasing said members to said other relative position wherein said switch breaks said energizing circuit, and a water heating container in which said heater operates having a normal operative position with reference to said support and an inoperative position removed from said support, said container having a part engaging a part of said heater to hold said heater in said one relative position when said container is in said operative position and releasing said heater to permit said biasing means to move it to said other relative position when said container is moved to said inoperative position so as to cause said switch to break said energizing circuit.

2,278,995
WATTHOUR METER
Isaac F. Kinnard, Lynnfield, Mass., assignor to General Electric Company, a corporation of New York
Application March 3, 1939, Serial No. 259,608
5 Claims. (Cl. 171—34)

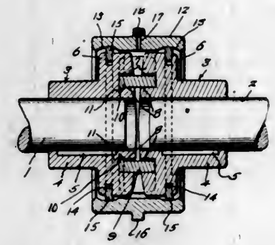


3. A meter device of the induction type comprising a casing, current and voltage electromagnets supported in said casing and having pole pieces spaced apart to provide an armature air gap, a rotary armature of conducting material in said gap, said current electromagnet having a U-shaped core, a service cable passing through said casing and between the legs of said U-shaped current core and constituting a single turn winding for said current electromagnet, said current core having a yoke portion which is hinged and which may be opened for the removal and insertion of said cable through the yoke without disturbing said cable.

2,278,996
2-METHOXY-5-AMINOBENZYL ALCOHOL
David X. Klein, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 24, 1940, Serial No. 362,623
1 Claim. (Cl. 260—575)

2-methoxy-5-aminobenzyl alcohol.

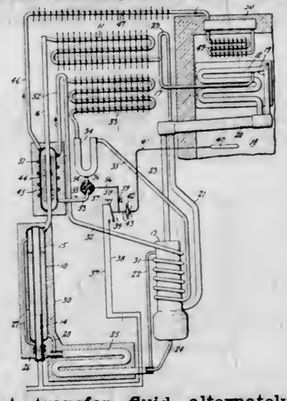
2,278,997
SHAFT COUPLING
Abner F. Knight, Fairfield, Ala.
Application December 23, 1941, Serial No. 424,187
6 Claims. (Cl. 64—6)



1. In a draft coupling for connecting a pair of shafts in end-to-end relation, a pair of coupling heads fast on said ends of the shafts, respectively, and including a pair of concentric disc-like flanges opposed face to face, circumferentially spaced arcuate keyways in the opposed faces of said flanges opening at the ends thereof onto the peripheries of said flanges, the keyways in said flanges being arranged in opposed pairs, and arcuate keys slidably fitted in said pairs of keyways, respectively.

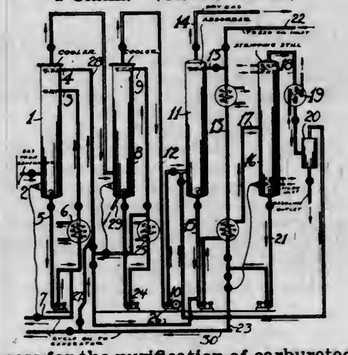
2,278,998
REFRIGERATION
Wilhelm Georg Kögel, Evansville, Ind., assignor, by mesne assignments, to Servel, Inc., New York, N. Y., a corporation of Delaware
Application December 14, 1938, Serial No. 245,579
In Germany January 17, 1938
11 Claims. (Cl. 62—5)

3. The combination with a refrigeration system having at least two parts from which heat is dissipated, of an intermittent refrigeration system operated by heat input from one of said parts from which heat is dissipated, a fluid transfer system in which a heat transfer fluid is adapted to flow and including one portion in heat exchange relation with said intermittent system and another portion in heat exchange relation with another of said parts, and control means to



flow heat transfer fluid alternately in said portions.

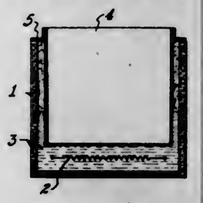
2,278,999
RECOVERY OF HYDROCARBONS FROM FUEL GASES
Paul E. Kuhl, Madison, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application March 17, 1939, Serial No. 262,376
1 Claim. (Cl. 183—114.6)



Process for the purification of carbureted water and producer gas and for the recovery therefrom of hydrocarbon constituents boiling in the gasoline boiling range, comprising passing said carbureted gas through an initial countercurrent direct oil cooler containing two oil sprays, one disposed above the other, under conditions to remove therefrom entrained solid particles and hydrocarbon fractions boiling above the gasoline boiling range, passing the cooled gases through a secondary countercurrent direct oil cooler under conditions to condense a substantial amount of the hydrocarbon fractions boiling in the gasoline boiling range, removing cooled gases from said secondary cooler and subjecting the same in an absorption stage to countercurrent contact with an absorption oil under conditions to produce a gas substantially free of hydrocarbon constituents boiling in the gasoline boiling range, removing said absorption oil and recovering hydrocarbon constituents therefrom in a distillation stage, said lower oil spray of said initial cooler comprising recycle oil withdrawn from the lower portion of said initial cooler and said upper oil spray of said initial cooler comprising clean oil containing gasoline constituents withdrawn from

the bottom portion of said secondary cooler so that cooling of said initial cooler is obtained by evaporation of at least part of the gasoline constituents.

2,279,000
ART OF COOKING
Leon H. Larson, Hamden, Conn.
Application April 7, 1941, Serial No. 387,272
15 Claims. (Cl. 219—44)

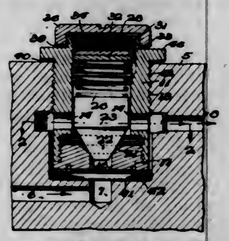


1. In a process of cooking and drying the step which consists in applying heat to the medium to be treated by means of a treating liquid maintained substantially at or lower than its boiling point, but sufficiently high to cause vaporization locally therein, said boiling point being only slightly higher than the temperature desired to be applied to said medium, and said medium being held at a pressure at which said boiling point will develop.

2,279,001
FLUSHING OIL
George L. Matheson, Union, and Raphael Rosen, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application July 20, 1938, Serial No. 220,338
7 Claims. (Cl. 184—1.5)

1. A flushing oil for cleaning internal combustion engine crankcases having a kauri butanol solvent value between about 40 and 200 and to which has been added at least about 10% of at least one normally liquid material selected from the group consisting of aromatic hydrocarbons and halogenated hydrocarbons.

2,279,002
VALVE MECHANISM
Charles I. MacNeil, Glen Ridge, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application January 14, 1941, Serial No. 374,397
1 Claim. (Cl. 251—145)

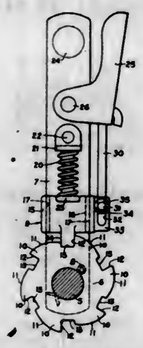


In a valve assembly, the combination, with a valve element, of a spring for applying pressure to said valve element, means for holding said spring in compressed condition, said holding means comprising an internally threaded housing for said spring and valve element, a spring compressing disk having its periphery threaded for engagement with said housing, and a locking disk having a radial extension for engagement with said housing in such manner as to prevent turning of either of said disks without manual intervention, and a means including a second spring for holding said two disks in frictional engagement.

2,279,003
HARD FACING MATERIAL AND METHOD OF MAKING THE SAME
Milan A. Matush, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
No Drawing. Application July 24, 1940, Serial No. 347,145
8 Claims. (Cl. 75—136)

1. A tool surface formed of particles of titanium-cyano-carbide, embedded in a matrix of a chromium iron alloy.

2,279,004
RATCHET LEVER
Marcus E. McClellan, Ottumwa, Iowa, assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa, a corporation of Iowa
Application March 5, 1941, Serial No. 381,798
3 Claims. (Cl. 74—156)

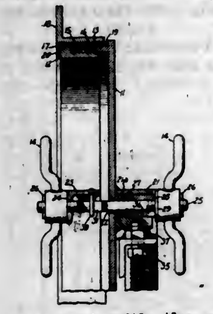


1. In combination, a rotatable shaft, a toothed ratchet wheel fixed thereto, a lever journalled on the shaft, a pawl member carried on said lever and engageable with said wheel, said pawl member being movable in a direction radial to the axis of the shaft between a first position in which it is operative to lock the lever fixedly to the ratchet wheel, and a second position wherein the pawl is adapted to ratchet over the teeth of said ratchet wheel in one direction, and means for moving said pawl from one position to the other.

2,279,005
DOOR CONSTRUCTION
Kenton D. McMahan, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application March 30, 1939, Serial No. 264,990
5 Claims. (Cl. 189—46)

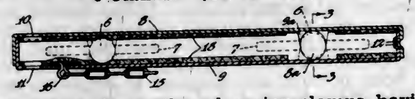
1. A fluid-tight closure construction comprising a wall having an opening therein, a closure frame member about said opening, a closure member for said opening, a resilient strip extending around the periphery of one of said members, said strip having a longitudinally extending groove on the surface presented to said one of said members and means engaging said strip for

causing said strip to buckle at said groove into



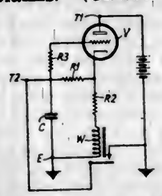
fluid-tight engagement with the other of said members.

2,279,006
OUTBOARD MOTOR LOCK
Andrew McWalters, Minneapolis, Minn.
Application May 10, 1940, Serial No. 334,394
6 Claims. (Cl. 70—232)



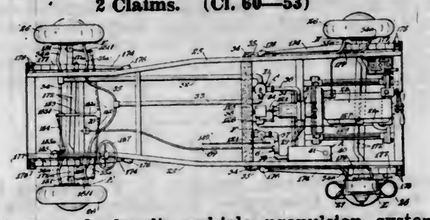
1. A lock for outboard motor clamps having a pair of spaced clamping screws with heads comprising, a pair of trough-shaped elements each having a pair of spaced notches in a side thereof, one of said elements removably nesting in the other with the notches of one element substantially coinciding with those of the other and adapted to receive said motor clamp screws at opposite sides of said screws to encircle the same, and said elements being adapted to receive said heads between them to prevent rotation thereof, and means for releasibly locking said elements together.

2,279,007
TIME DELAY CIRCUIT AND RELAXATION OSCILLATOR
Wilfrid Sinden Mortley, Great Baddow, Chelmsford, England, assignor to Radio Corporation of America, a corporation of Delaware
Application March 1, 1940, Serial No. 321,657
In Great Britain March 25, 1939
5 Claims. (Cl. 250—36)



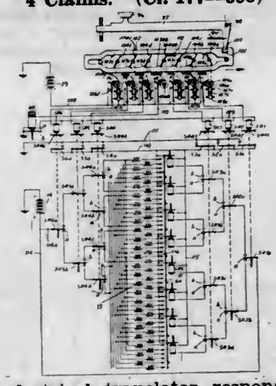
4. A negative feed back time delay circuit comprising a thermionic valve having an anode, a grid and a cathode, means for applying a positive polarizing potential to said anode relative to said cathode, a relay winding in the anode-cathode circuit of said valve, a first resistor having one terminal connected to said cathode and its other terminal connected to ground, a connection including a condenser in series with a second resistor shunting said first resistor, said condenser having one terminal connected to ground, and a third resistor connecting said grid to the junction point of said condenser and said second resistor, the grid-cathode potential of said valve being dependent upon the voltage set up across said condenser.

2,279,008
HYDRAULIC VEHICLE PROPULSION SYSTEM
Herbert J. Nathan, Bismarck, N. Dak.
Application July 28, 1938, Serial No. 221,815
2 Claims. (Cl. 60—53)



1. In a hydraulic vehicle propulsion system including a power driven fluid pump having an outlet conduit running to the inlet of a fluid motor equipped with an outlet conduit in which a braking valve is interposed, a fluid reservoir to which said motor outlet is connected for delivery of fluid thereinto, said reservoir having free communication with the outer atmosphere, a pump bypass conduit running from the lower portion of said reservoir to said pump outlet conduit, a check valve in said bypass conduit for permitting flow of fluid therethrough only toward said pump outlet conduit, and an inlet conduit for said pump connected to said reservoir at a point higher than the point of connection of said bypass conduit, whereby an abnormal drop of the liquid level in said reservoir will expose said pump inlet connection and halt the supply of power to said fluid motor, but said bypass connection will remain covered and permit functioning of said brake valve.

2,279,009
COMMUNICATION SYSTEM
Harry J. Nichols, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application August 17, 1940, Serial No. 353,115
4 Claims. (Cl. 177—353)



3. An electrical translator responsive to received code signal elements comprising a plurality of selector relays, a slow-release relay, means including said slow-release relay and controlled upon operation of certain of said relays, selectively, to maintain the energized relay in energized condition for a chosen time interval, a plu-

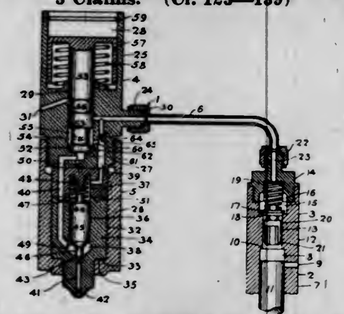
rality of group relays, a first plurality of cascade arranged switches controlled by certain of said first plurality of relays to selectively energize one of said group relays in response to selective energization of certain of said selector relays, respectively, a second plurality of cascade arranged switches controlled by others of said selector relays, a group of operating elements controlled by each of said group of relays, said second plurality of switches closing a circuit through one only of the group of operating elements pertaining to the energized relay, and means including said cascade arranged switches for maintaining said selected group relay energized after selective energization thereof.

2,279,010

FUEL INJECTION APPARATUS

William M. Nichols, Auburn, N. Y., assignor to American Locomotive Company, New York, N. Y., a corporation of New York

Application August 19, 1941, Serial No. 407,449
3 Claims. (Cl. 123—139)



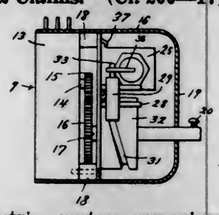
1. A fuel injection apparatus for an internal combustion engine comprising a fuel metering pump having a cylinder; a fuel injector including a fuel injection nozzle and a fuel injection pump having a cylinder; a fuel delivery passage connecting said metering and injection pump cylinders; and a retraction valve disposed in said passage.

2,279,011

SWITCH OPERATING MECHANISM

Joseph Nicholson, Vineland, N. J.

Application July 7, 1938, Serial No. 218,011
2 Claims. (Cl. 200—17)



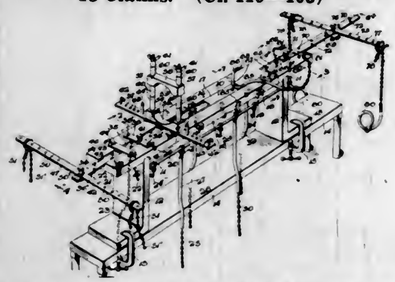
1. An electric motor reversing mechanism comprising a spirally grooved rotor, switch operating means riding the groove of the rotor, said means comprising a slidably mounted block having a pin projecting therefrom and disposed in the groove of the rotor, a switch operating arm formed with a slot and a pin projecting from the block into the slot, a panel on which the rotor is mounted, a switch mounted on the panel and having the switch operator contactor arm associated therewith, and guide means projecting from the panel and having the said block mounted thereon.

2,279,012

SUPPORTING AND HOLDING DEVICE FOR ANIMALS

Ardzroony Packchanian, Washington, D. C.

Application July 22, 1941, Serial No. 403,581
13 Claims. (Cl. 119—103)



1. In apparatus of the character described, a body portion to receive the animal thereon, flexible elements secured to the body portion to extend longitudinally thereof and adapted to be passed over the hips and pelvis of the animal, means for attaching the ends of the flexible elements to the body portion, a yoke for receiving the neck of the animal and mounted upon the body portion, flexible elements connected with the body portion and adapted to extend transversely of the body of the animal, a longitudinal arm mounted upon the body portion and extending beyond the rear end thereof, a transverse arm carried by the longitudinal arm, flexible elements secured to the transverse arm and adapted to be attached to the rear legs of the animal, a second longitudinal arm mounted upon the body portion and extending longitudinally thereof beyond its forward end, a transverse arm carried by the second longitudinal arm, and flexible elements adapted to be secured to the second transverse arm and adapted to be attached to the front legs of the animal.

2,279,013

METHOD OF PRODUCING NICKEL IRON POWDER

Philip Norton Roseby, Woodvale, near Southport, England, assignor to Automatic Telephone & Electric Company Limited, London, England, a British company

No Drawing. Application May 20, 1941, Serial No. 394,391. In Great Britain June 25, 1940
3 Claims. (Cl. 75—0.5)

1. A method of producing nickel-iron powder of predetermined particle size in which nickel powder having particles of approximately the predetermined size is mixed with an appropriate proportion of an iron compound readily capable of reduction which is in the form of particles considerably smaller than the particles of nickel, the mixture being heated in a reducing atmosphere and the sintered mass subsequently crushed to powder.

2,279,014

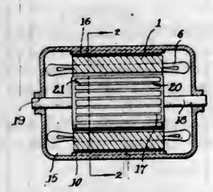
ELECTROMAGNETIC APPARATUS

Marion B. Sawyer, Los Angeles, Calif., assignor to Sawyer Electrical Manufacturing Company, Los Angeles, Calif., a corporation of California

Application September 22, 1938, Serial No. 231,221
13 Claims. (Cl. 171—252)

1. In electro-magnetic apparatus, an inner cylindrical member, an outer member having a cylindrical bore for coaxial reception of the inner cylindrical member, the outer member extending

longitudinally of the inner cylindrical member, one of said members being a stator and the other of said members being a rotor, the outer member having slots separated by teeth at its cylindrical bore and having a continuous annular yoke integral with said teeth outwardly therebeyond radially of the axis of the stator-rotor, the cylindrical member having alternate slots and teeth at its outer periphery, windings in the slots of the stator-rotor, a shell surrounding and extending longitudinally of the outer member, with a space extending around and longitudinally of the outer member between it and the shell, and a magnetically permeable shielding element in said space and extending around and longitudinally of said space, there being a gap of high reluctance in the flux path between the outer member and the shield element, and the shielding element being interrupted in planes transverse to the axis of the stator-rotor.



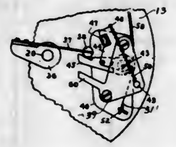
13. In an electro-magnetic apparatus, an alternating current magnet having a flux circuit divided into a work portion and a return portion, the latter portion passing through a laminated magnetic core operating at high flux density under normal working conditions, and a magnetic shield of relatively low reluctance and low flux density disposed on the back of said core to provide a path for stray flux, said shield being disposed relative to said core to provide a high reluctance path for the flux passing therebetween to maintain a high density of flux in said core.

2,279,015

ELECTRIC CLOCK

Max Schlenker, Peru, Ill., assignor to General Time Instruments Corporation, New York, N. Y., a corporation of Delaware

Application July 23, 1938, Serial No. 220,872
2 Claims. (Cl. 200—67)



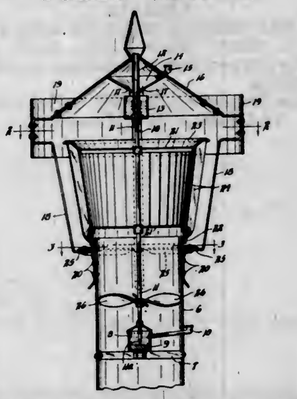
1. Contact mechanism comprising a frame, a pivoted member carrying a first contact and an insulating projection, a second contact mounted for oscillating motion and adapted to engage said insulating projection to rotate said pivoted member in one direction, and adapted to engage said first contact to rotate said pivoted member in the other direction, resilient positioning means mounted between said pivoted member and said frame to snap said pivoted member from an intermediate position to either of two extreme positions, and a projection from said frame against which said second contact is urged by said first contact through influence of said resilient positioning means to define one of said extreme positions.

2,279,016

AIR TURBINE VENTILATOR

Herman Silver, Minneapolis, Minn.

Application April 12, 1939, Serial No. 267,411
2 Claims. (Cl. 98—72)



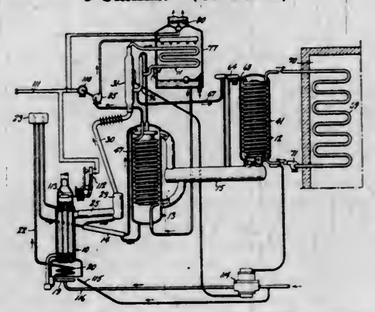
1. In a ventilating device for an opening in an enclosure, a stack communicating with said opening and extending vertically therefrom, a central pivot element positioned axially of said stack and extending upwardly above the top thereof, an open rim supported by said pivot element in a substantially horizontal position, a second open rim of larger diameter than said first mentioned rim and supported by said pivot element in upwardly spaced relation to said first rim, a plurality of spaced vanes extending between said rims and disposed at angles to radii of said rims to provide an open sided turbine cage, an air pumping device adjacent the top of said stack and connected to said pivot element for movement therewith, and a protective cover member disposed upwardly and outwardly from said cage to permit free flow of air axially through said cage and radially outwardly between said vanes.

2,279,017

REFRIGERATION

Hugo M. Ullstrand, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware

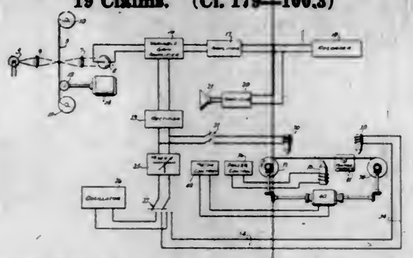
Application April 7, 1938, Serial No. 200,574
5 Claims. (Cl. 62—5)



1. An absorption type refrigeration system including a generator, a heater for said generator, a control for stopping and starting said heater, an absorber, a condenser, a liquid circuit for cooling said absorber and condenser and including an evaporator, a liquid circulator for circulating liquid in said circuit, and a second control

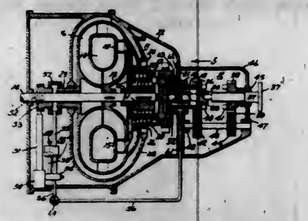
for stopping and starting said liquid circulator responsive to the stopping and starting, respectively, of said heater.

2,279,018
SOUND RECORDING METHOD AND SYSTEM
Wallace V. Wolfe, Beverly Hills, Calif., assignor to Radio Corporation of America, a corporation of Delaware
Application December 29, 1939, Serial No. 311,518
19 Claims. (Cl. 179—100.3)



1. In sound apparatus, the combination of a source of currents corresponding to sound waves, a transmission circuit for said currents, a variable gain amplifier for varying the amplitude of said currents in said circuit, means for generating a secondary current, means for varying the amplitude of said secondary current by impressing the products of rectification of said secondary current on said variable gain amplifier for varying the amplitude of said sound wave currents, independent means for recording only said secondary current, and means for reproducing only said secondary current to control the amplitude of said sound wave currents during a subsequent transmission of said sound wave currents over said transmission circuit.

2,279,019
HYDRAULIC VEHICLE POWER TRANSMISSION
Willy Black, Berlin-Halensee, Germany, assignor to General Electric Company, a corporation of New York
Application November 27, 1939, Serial No. 306,369
In Germany December 8, 1938
5 Claims. (Cl. 192—3.2)

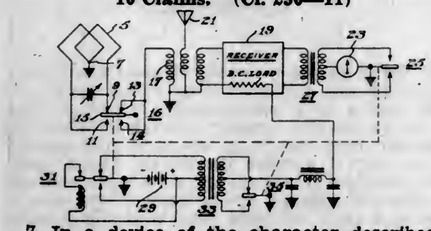


1. In a vehicle transmission, the combination of a hydraulic gear, a mechanical coupling, pressure operated means for operating said coupling, a pump driven from a shaft of said transmission and arranged to generate fluid pressure responsive to the speed of said shaft, conduit means connecting said pump to said hydraulic gear and to said coupling operating means, manual means for controlling the operation of said transmission, through said hydraulic gear and through said mechanical coupling alternately, and means responsive to the fluid pressure generated by said pump for effecting a change-over from mechanical coupling operation to hydraulic gear operation at a predetermined speed of the transmission shaft.

2,279,020
CONDENSATION OF KETONES
Charles A. Cohen, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application November 24, 1939, Serial No. 305,893
10 Claims. (Cl. 260—594)

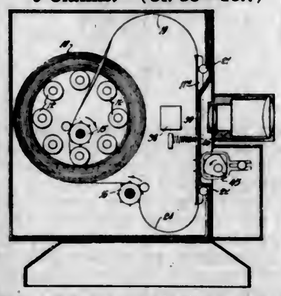
1. The process of producing keto-alcohols which comprises condensing ketones in a medium free of hydroxyl ions and in the presence of an anhydrous metal alcoholate, the metal element of which is selected from the first and second groups of the periodic table.

2,279,021
DIRECTIONAL RECEIVER
Philip G. Cooper, Merchantville, N. J., and Clarence D. Tuska, Philadelphia, Pa., assignors to Radio Corporation of America, a corporation of Delaware
Application November 30, 1939, Serial No. 306,828
10 Claims. (Cl. 250—11)



7. In a device of the character described, a radio device having radio frequency and direct current input circuits, a source of alternating current, a source of radio frequency currents, common means for rectifying said alternating current and for applying said radio frequency currents to said radio frequency input circuit, and means for impressing said rectified current on said direct current input circuit.

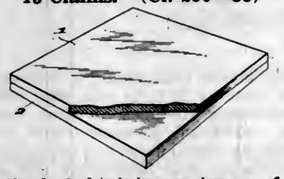
2,279,022
MOTION PICTURE APPARATUS
Alfred Duskes, New York, N. Y.
Application January 8, 1940, Serial No. 312,838
9 Claims. (Cl. 88—18.7)



1. Motion picture projecting apparatus for endless film, comprising a projector having optical projecting means, a film guiding aperture plate associated with said optical means for positioning the film with respect thereto, and also having film feed drive mechanism, and driving

clutch means, and an endless film magazine, means to removably connect said magazine to said projector, said magazine comprising a supporting frame, means for rotatably supporting a roll of endless film on said frame, a feed sprocket mounted on said frame and disposed inside the inner diameter of said film roll, a take-up sprocket outside of said roll and also mounted on said frame, film guide means complementary to said aperture plate, said guide means comprising a pressure member, means for mounting the pressure member on said frame for yieldably pressing the film against said aperture plate, stop means for said pressure member, connected with said frame to provide a path for the film and to provide with said pressure member a film guiding and holding means, said inside sprocket being adapted to feed the film directly to said film guide means, and complementary clutch means to establish driving engagement between said film feed drive clutch means and said sprockets incident to the attachment of the magazine to the projector, said film guide means on the magazine being positioned to enter into cooperative association with the aperture plate to confine the film between them, so as to effect self-threading of the film with respect to the projector incident to such attachment.

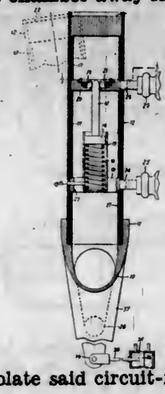
2,279,023
METHOD AND DEVICE FOR DEPICTING OBJECTS
Hartmut Israel Kallmann, formerly known as Hartmut Kallmann, Berlin-Charlottenburg, and Ernst Kuhn, Berlin, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a corporation of Germany
Application October 19, 1939, Serial No. 300,276
In Germany October 19, 1938
15 Claims. (Cl. 250—83)



1. A method of obtaining an image of an object by means of quick neutrons, which comprises directing a beam of quick neutrons upon the object, causing the emergent beam of quick neutrons to impinge upon a layer containing a substance which reacts with quick neutrons to emit radiation of the group consisting of charged particles and gamma radiation, and causing the radiation to impinge upon an adjacent layer of material which is sensitive to said radiation.

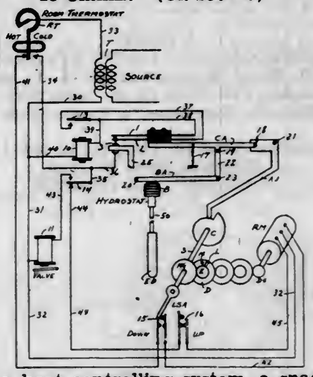
2,279,024
ELECTRIC CIRCUIT INTERRUPTER
Hubert Korndörfer, Berlin, Germany, assignor to General Electric Company, a corporation of New York
Application October 14, 1939, Serial No. 299,515
In Germany January 20, 1939
5 Claims. (Cl. 200—148)

1. An electric circuit interrupter of the gas blast type comprising a gas supply duct mounted for rotation, a blast chamber supported by said duct, a pair of relatively movable circuit-interrupting contacts mounted in said blast chamber, a pair of fixed isolating contacts bridged by said circuit-interrupting contacts in one position of said duct, and means for rotating said supply duct and blast chamber away from said isolating



contacts to isolate said circuit-interrupting contacts.

2,279,025
HEAT CONTROLLING SYSTEM
Martin L. Nelson, Park Ridge, Ill.
Application October 16, 1939, Serial No. 299,660
13 Claims. (Cl. 236—9)

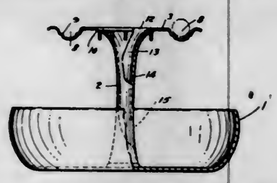


2. In a heat controlling system, a space to be heated, a heating medium for heating said space, a thermostat operable in accordance with the temperature of said space, means associated with said heating medium and operable to variable positions in accordance with the heat at the heating medium, a time element mechanism associated with said last mentioned means and operable to variable positions under control of said thermostat, a relay, a circuit for said relay including contacts on said thermostat and a source of current, contacts controlled in accordance with the variable positions of said time element mechanism and the variable positions of said last mentioned means for intermittently completing said relay circuit to intermittently energize and deenergize said relay, electromagnetic means for operating said heating means to maintain said space at a desired temperature, and contacts operated by said relay for controlling the operation of said electromagnetic means.

2,279,026
ASH TRAY
Guy Tomsic, Rockville, Conn.
Application December 7, 1939, Serial No. 308,041
1 Claim. (Cl. 131—235)

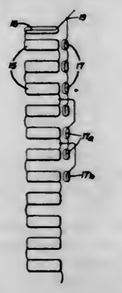
A cigarette holder and ash receiver compris-

ing a bowl, a substantially hollow pedestal positioned in the center of the bowl, and cigarette holding racks at the upper end of the pedestal and mounted thereon; said device being characterized in that the bowl is relatively deep and also relatively large and the pedestal is relatively high and flared outward at the upper end and gradually diminishing toward a throat about



midway of the height thereof, with an outlet opening in one side below the throat, and further characterized by a curved surface forming the lower end of the inside of the pedestal adapted to cause cigarettes in the pedestal to slide outward into the bowl, and the upper end of the pedestal is formed with the racks positioned so that ashes from cigarettes thereon will drop only in the bowl.

2,279,027
ELECTRICAL INDUCTION APPARATUS
James M. Weed, Ballston Lake, N. Y., and Jack R. Meador, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York
Application April 20, 1937, Serial No. 137,918
Renewed June 20, 1940
12 Claims. (Cl. 175—356)



12. In combination with a winding of electrical induction apparatus, means for distributing over said winding a voltage suddenly impressed upon a terminal thereof, said means comprising a plurality of capacitance elements electrostatically coupled in a series relation and associated with a predetermined fractional part of said winding, the first of said elements being connected to said terminal and being closely electrostatically coupled with a portion only of said winding part nearest said terminal, and different successive capacitance elements being closely electrostatically coupled with corresponding different successive portions only of said winding part, each of said capacitance elements except said first being substantially non-inductively connected to a point substantially in the surface and intermediate the ends of the winding portion closely electrostatically coupled with the next adjacent and preceding capacitance element.

2,279,028
ELECTRICAL INDUCTION APPARATUS
James M. Weed, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 11, 1940, Serial No. 344,940
17 Claims. (Cl. 175—356)



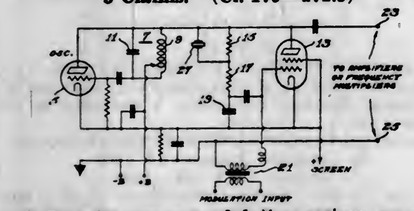
1. In combination with a winding of electrical induction apparatus, means for distributing over said winding a voltage suddenly impressed upon a terminal thereof, said means comprising a network of capacitances associated with a first part of said winding nearest the terminal thereof, said capacitances being so arranged and so proportioned relative to the inherent capacitances between winding turns and ground that said voltage is distributed with a uniform reduced gradient over said first winding part and with progressively decreasing gradient over the remainder of said winding.

2,279,029
HAND SIGNAL
Wiley M. Williams, Spokane, Wash.
Application October 25, 1940, Serial No. 362,711
3 Claims. (Cl. 88—80)



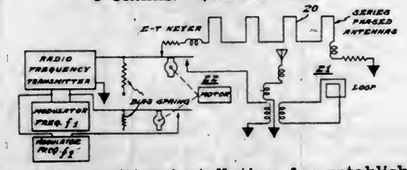
1. A hand signal comprising a flexible elliptical pad and a circular flexible pad, said pads having colored reflecting surfaces on their outer faces, and being connected to each other along their outer edges by elastic straps, the elliptical pad having an elastic loop formed on the under side and near one end of said pad.

2,279,030
FREQUENCY MODULATION
Edmond S. Winlund, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 31, 1940, Serial No. 337,999
5 Claims. (Cl. 179—171.5)



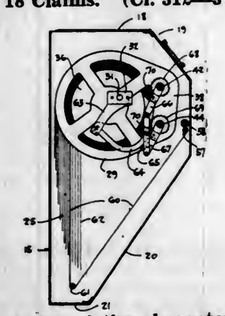
1. In a frequency modulation system, an oscillator, a reactance tube coupled to said oscillator for varying the frequency thereof in accordance with a modulating potential, and a piezo electric element resonant at a frequency near the frequency of said oscillator in circuit with said reactance tube for varying the operating characteristic of said tube as a function of the frequency of said oscillator in a direction which tends to partially overcome the change of frequency produced by said modulating potentials.

2,279,031
RADIO NAVIGATION AID
Christopher Sydney Cockerell, Danbury, and John Glover Robb, Richmond, England, assignors to Radio Corporation of America, a corporation of Delaware
Application October 22, 1938, Serial No. 236,542
In Great Britain October 29, 1937
3 Claims. (Cl. 250—11)



2. A transmitter installation for establishing main and supplementary radiation including apparatus for producing a main, highly directional radiation having marked directivity in a predetermined direction so that the principal characteristic of the polar diagram thereof is an elongated lobe accompanied by undesired subsidiary lobes which have a deleterious effect upon the directional path of the highly directional main lobe, so that the signal transmitted by the highly directed radiation indicates the desired course and the signal transmitted by the supplementary radiation indicates the region including the undesired subsidiary lobes, whereby their deleterious effect may be avoided, apparatus for producing said supplementary radiation which can be represented by a polar diagram of substantially circular form, the radius of the circle being substantially less than the length of the elongated lobe and substantially greater than said subsidiary lobes in their direction, and means for alternately transmitting different signals on the two radiations.

2,279,032
TOWEL DISPENSING CABINET
Donald G. Cowlin, Glendale, Calif.
Application June 25, 1937, Serial No. 150,301
18 Claims. (Cl. 312—37)

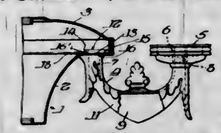


11. In a device of the character described, a cabinet, a towel carrier pivoted in said cabinet, a belt supported on said carrier, a plurality of towels each having one of their ends attached to said belt, drive means to move said belt on said carrier, and means actuated by movement of said carrier relative to said cabinet to actuate said drive means.

2,279,033
METHOD OF PREPARING CHROMITE BRIQUETTES
Clinton E. Dolbear, Alameda, Calif.
No Drawing. Application May 10, 1941, Serial No. 392,939
21 Claims. (Cl. 75—3)

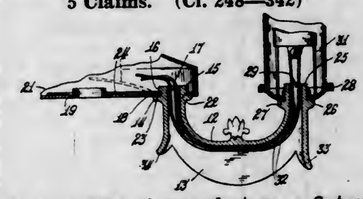
1. A method of briquetting chromite ore, comprising heating a quantity of finely divided chromite ore, mixed with from 1.5 to 3.5%, by weight, of clay.

2,279,034
LAMP ASSEMBLY
August O. Elting, Chicago, Ill.
Application November 17, 1939, Serial No. 304,915
9 Claims. (Cl. 248—344)



1. In a lamp, the combination of a body member having an aperture therein and an arm, one end of which is positioned in said aperture, the latter being of a greater size than the adjacent end of said arm to permit entry of said arm transversely through the aperture, said arm having a recess therein adapted to receive an adjacent edge of said aperture, and means for urging said arm laterally towards said adjacent edge to maintain the latter within said recess.

2,279,035
LAMP FIXTURE
August O. Elting, Chicago, Ill.
Application April 22, 1940, Serial No. 330,856
5 Claims. (Cl. 248—342)

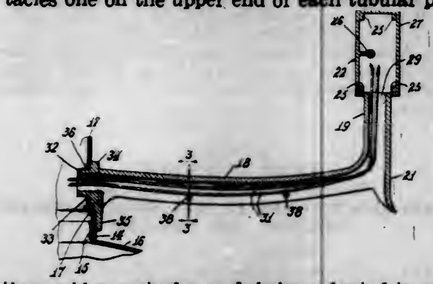


1. As an article of manufacture, a fixture arm including a body portion providing an inverted channel, an integral, externally threaded nipple on one end of the arm in communication with the channel and having an annular external shoulder, the other arm end having a tubular opening also in communication with the channel, and a triangular boss grooved on at least one face integral with said other end of the arm, the triangular boss being adapted to be fitted into a triangular opening in the wall of a fixture body so that when said boss is shifted to engage an edge of said wall opening in said groove to secure the arm to the wall the triangular boss holds the arm against turning relative to the fixture body.

2,279,036
LAMP FIXTURE
August O. Elting, Chicago, Ill.
Application August 7, 1941, Serial No. 405,760
7 Claims. (Cl. 248—344)

1. In a lamp fixture comprising, in combination, a fixture body and diametrically opposed fixture arms, said arms each including a body portion providing a wire-receiving channel, means

for fixedly securing one end of each of said arms to the fixture body, a vertical tubular portion on the free end of each arm in communication with the channel, and substantially rectangular receptacles one on the upper end of each tubular portion, said receptacles each being adapted to contain a pair of lamp sockets arranged with one of each pair in horizontal alignment with one of the other pair so as to receive the respective end mountings of parallel fluorescent tubes disposed one on each side of the fixture body.

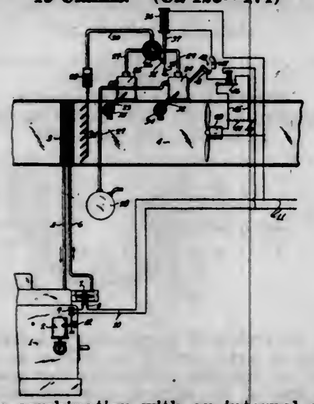


2,279,037

METHOD OF AND MEANS FOR CONTROLLING INTERNAL COMBUSTION ENGINES

Louis E. Endsley, Pittsburgh, Pa., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois

Application November 4, 1939, Serial No. 302,818
15 Claims. (Cl. 123—174)



1. The combination with an internal combustion engine including a liquid cooling system, of control means for regulating time of overload operation, and including thermostatic means responsive to temperature of the liquid cooling medium, engine load regulating means in influenced relation to the thermostatic means, means controlling displacement of air through a radiating element of the engine cooling system, and a second thermostatic means of modulating type, responsive to ambient air temperature, and in controlling relation to said air displacement means, both of said thermostatic means being so regulated and coacting as to effect a protracted but limited time of engine operation under overload conditions.

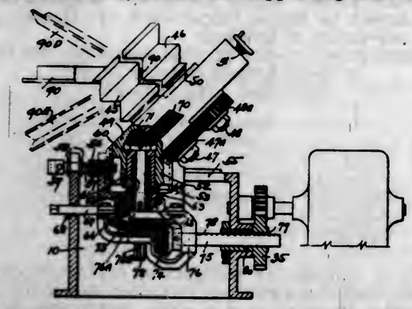
2,279,038

BENDING MACHINE

Robert A. Gifford, Raleigh, Tenn.

Application March 22, 1940, Serial No. 325,275
10 Claims. (Cl. 153—56)

1. In an angle bending machine, two roll sets spaced laterally apart, and a third roll set therebetween, each roll set comprising a pair of complementary rolls, each having frusto-conical surfaces, said rolls being suitably journalled on parallel axes inclined in the plane of said axes at an angle of substantially forty-five degrees, means, each mounting an outer said roll set for turning movement about a substantially vertical axis and for restraining movement of said set along said axis, means for supporting said central roll set with the plane of the roll axes transverse to the plane containing the said vertical axes of the outer roll sets, means for shifting said central roll set horizontally in the plane of its roll axes, means cooperating with said shifting means for turning said outer roll sets concurrently in opposite directions about said vertical axes, means for vertically shifting said center roll set relatively to said outer roll sets, and means for driving all of said rolls.

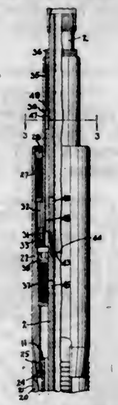


2,279,039

REMOVABLE CEMENT RETAINER

George Green, Houston, Tex.

Application August 14, 1939, Serial No. 289,973
11 Claims. (Cl. 166—12)



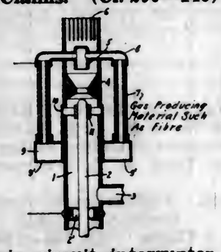
1. A removable cement retainer for wells including an operating string of pipe, a packer sleeve threaded to said pipe at its lower end, a packer on said sleeve, a set of slips on said sleeve above said packer, a hollow mandrel about said pipe to set said slips, a plunger carried by said mandrel and closing a space therein about said pipe, a port in the pipe opening into the closed space, and means in the pipe to restrict the flow of liquid therethru so as to apply pressure in the closed area to move said plunger and mandrel to expand said slips.

2,279,040

ALTERNATING CURRENT CIRCUIT INTERRUPTER

Vitaly Grosse, Berlin-Lichterfelde, Germany, assignor to General Electric Company, a corporation of New York

Application July 24, 1939, Serial No. 286,255
In Germany September 19, 1938
13 Claims. (Cl. 200—146)



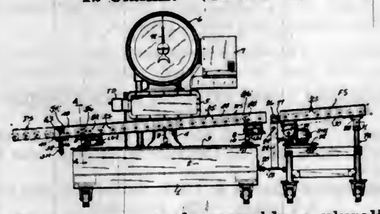
1. An electric circuit interrupter comprising means for defining an interrupting arc gap, means for causing flow of gas through said gap for interrupting the arc therein, and means including an insulating tube for leading heated gas from a point in said gap adjacent said arc so as to be electrically connected across the terminals of said interrupter and electrically to shunt said gap as a damping resistance.

2,279,041

CONVEYER WEIGHING SCALE

Harlan A. Hadley, St. Johnsbury, Vt., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois

Application June 12, 1939, Serial No. 278,606
12 Claims. (Cl. 265—5)



1. In a conveyer scale assembly, a plurality of normally operatively associated roller feed conveyer sections, one thereof constituting a feeder section for another and being displaceable out of feeding association therewith, weighing mechanism operable responsive to loading of the last said section, and means operated by a unit to be weighed during movement thereof onto the weighing section, for causing displacement of said feeder section to effect a physical isolation of said sections, whereby to prevent conveyance of a unit from one to the other thereof.

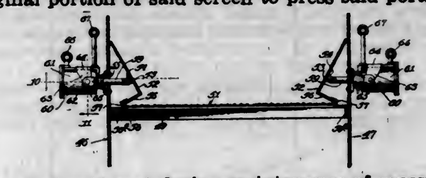
2,279,042

SCREENING APPARATUS

Daniel J. Harrington, Manistique, Mich., assignor to Inland Lime & Stone Company, Manistique, Mich., a corporation of Michigan

Application August 3, 1940, Serial No. 350,757
5 Claims. (Cl. 209—403)

1. In screening apparatus, the combination of a vibratable frame, screen seats carried by the frame, a screen free of connection with said frame, a cylinder carried by said frame, a piston in said cylinder, a conduit for fluid pressure supply to said cylinder and means actuated by said piston to apply a component of force upon a marginal portion of said screen to press said portion against said seat during maintenance of pressure in said cylinder.

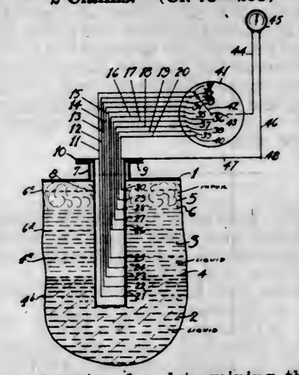


2,279,043

FLUID LEVEL DEVICE

Paul J. Harrington, Fanwood, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application June 30, 1939, Serial No. 282,177
2 Claims. (Cl. 73—295)



2. An apparatus for determining the level of interfacial contact between two heated, stratified fluids in a container therefor, comprising a container having an opening in one wall; a hollow thermoscope metal tube extending through said opening, vertically of the container, and opening outwardly; a plurality of thermo-electric conductor elements extending into said tube and connected thereto, interiorly of the sidewalls, at couple points disposed longitudinally of the tube; said conductor elements being of different metal from said metal tube, a multi-point switch, exteriorly of the container, severally connected to the outer ends of said conductor elements; and a thermo-electric conductor element connected to said tube exteriorly of the outer end, and to said switch, providing for a plurality of individual thermo-electric circuits; and thermo-electric current-indicator means connected in series with the switch by means of the exteriorly disposed conductor element.

2,279,044

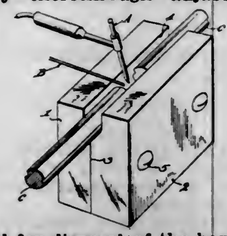
MOLD FOR ELECTRIC WELDING

Solomon C. Heist, Hollsopple, Pa.

Application February 26, 1940, Serial No. 320,904
1 Claim. (Cl. 22—116)

A mold for use in electric arc welding and casting a joint between the ends of trolley, power or like line wires for connecting the ends together while the wires are in service, and said mold comprising a pair of identical elongated substantially rectangular companion sections made from refractory electric current conducting material and having flat confronting faces, said faces being

recessed along the upper inner edges thereof and the recesses cooperating with each other to provide a rounded channel groove arranged along and open throughout the longitudinal center of the upper face of the mold for fittingly receiving the end portions of the wires therein and to render the welding process clearly visible, each section having a pair of parallel bores arranged transversely therethrough adjacent the ends



thereof and for disposal of the bores of one section in registration with those of the other section, bolts extending through the bores, and nuts threaded on the bolts for drawing the sections together to dispose the opposed faces of the groove in clamping engagement with said end portions for holding the latter in spaced alignment with each other to provide a welding material pocket between the same.

2,279,045

METAL BONDED ABRASIVE BODY

Josef Hinnüber and Ernst Ammann, Essen, Germany, assignors to General Electric Company, a corporation of New York

Application June 8, 1940, Serial No. 339,592
In Germany June 15, 1939
4 Claims. (Cl. 51—209)

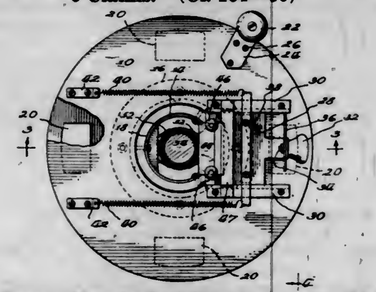
1. A tool consisting of a ring-shaped hard metal alloy, a support therefor and an intermediate layer of solder between said alloy and support, said hard alloy and support having substantially equal coefficients of expansion, said support consisting of an iron-nickel alloy containing about 38 to 45% nickel, and said solder having a melting point below 700° C.

2,279,046

WINDOW SHADE TRIMMER

Edward Kearney, Chicago, Ill.

Application October 14, 1940, Serial No. 361,031
6 Claims. (Cl. 164—60)



1. In a roller shade trimmer, a pair of roller shade gripping members, a cutting head mounted to rotate relative to said members, said gripping members adapted for movement inwardly and outwardly toward and away from the center of rotation of said cutting head, linkage means connected between said gripping members to cause inward or outward movement of one of said gripping members to produce similar movement of the other of said gripping members, said linkage means including a pivoted member, means actuated by inward movement of one of said gripping members for rocking said pivoted member in one direction, and means actuated by the movement of said pivoted member in one direction to produce inward movement of the other of said gripping members, and resilient means to urge said cutting head toward its center of rotation.

2,279,047

RECLAMATION OF RUBBER

Walter G. Kirby and Leo E. Steinle, Naugatuck, Conn., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application November 10, 1938, Serial No. 239,823
1 Claim. (Cl. 260—720)

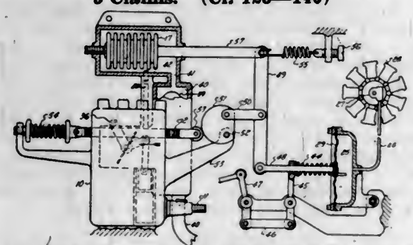
An alkali digestion process of reclaiming fibre-containing vulcanized rubber scrap to produce directly in one operation in shortened time, a softened substantially cellulose-free reclaim which comprises disposing in a jacketed digester a charge of comminuted fibre-containing vulcanized rubber scrap in admixture with alkali, a rubber softening agent, and a substantial volume of water, subjecting the mix to mechanical agitation and to the action of a large volume of air introduced into the digester under a gauge pressure of from 1 to 4 atmospheres, and exteriorly heating the mix at a temperature corresponding to from 150–200 pounds per square inch steam pressure in the jacket of the digester, while continuing the agitation of the mix to expose new surfaces of the scrap to the action of the air, until the rubber is softened by the combined action of air, heat, alkali, and rubber softener and the fibre substantially destroyed.

2,279,048

TORQUE CONTROLLED FUEL SUPPLY SYSTEM

Milton J. Kittler and Stanley M. Udale, Detroit, Mich., assignors to George M. Holley and Earl Holley

Application March 4, 1940, Serial No. 322,104
3 Claims. (Cl. 123—140)



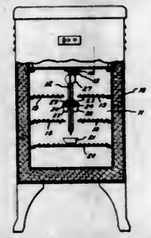
1. A fuel control unit for an internal combustion engine having a fuel injection pump adapted to supply fuel to said engine and an engine torque responsive device adapted to create hydraulic pressure in proportion to the torque of the engine, a moving wall responsive to said hydraulic pressure, a lever operatively connected at one end to said wall, an air supply passage for said engine, throttling means therefor, means responsive to the density of the air entering said engine for regulating the discharge of said fuel pump, said means being connected to the other end of said lever, pump regulating means connected to an intermediate point in said lever, the first mentioned regulating means being operative only after the torque exceeds substantially 60% of the maximum torque development of the engine, the second mentioned regulating means being operative throughout the entire working range of the engine.

2,279,049

FREEZING EVAPORATOR

Walter Kleinow, Hennigsdorf, Kreis Osthavelland, Germany, assignor to General Electric Company, a corporation of New York

Application September 5, 1940, Serial No. 355,539
In Germany October 31, 1939
3 Claims. (Cl. 62—126)



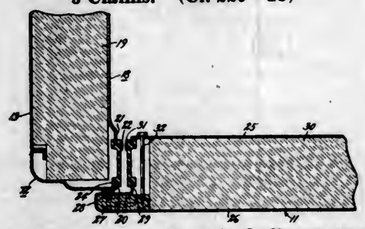
1. An evaporator for a refrigerating machine having a substantially vertical freezing and air cooling surface, a freezing tray having a vertical side wall adapted to engage said freezing surface, and interengaging elements on said tray and on said evaporator adjacent the ends of said tray for detachably securing said tray in good thermal contact with said surface, whereby upon removal of said tray said freezing surface presents a substantially uninterrupted area affording a free circulation of air over said surface.

2,279,050

REFRIGERATOR

Alvar Lenning, Stockholm, Sweden, assignor, by mesne assignments, to Servel, Inc., Dover, Del., a corporation of Delaware

Application April 25, 1935, Serial No. 18,117
In Germany October 25, 1932
3 Claims. (Cl. 220—15)



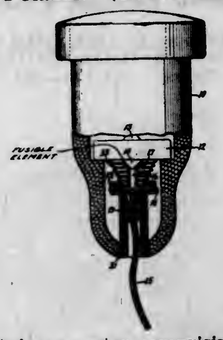
1. A refrigerator cabinet including a door and comprising wall structure of relatively thin flexible sheet metal plates spaced apart in substantially parallel relation and having corresponding opposed edge portions provided with stiffening flanges extending toward each other in substantially a single plane transversely of said plates, a relatively thin breaker strip in the form of a substantially unitary band disposed edgewise and closing the space between said plates, said strip having grooves in its edges in which said stiffening flanges are removably concealed, the construction and arrangement of the joint between the stiffening flange and breaker strip being such that the stiffening flange and breaker strip reenforce each other against flexure, and screws along the marginal edge portion of said plates spaced from the breaker strip clamping said plates to said breaker strip in said spaced relation, said breaker strip being of sufficient rigidity both to maintain the plates in spaced relation and to withstand the application of force by said screws.

2,279,051

PROTECTIVE DEVICE

Gerhard Maerkisch, Leipzig, Germany, assignor to General Electric Company, a corporation of New York

Application August 2, 1940, Serial No. 349,797
In Germany July 28, 1939
4 Claims. (Cl. 200—115)



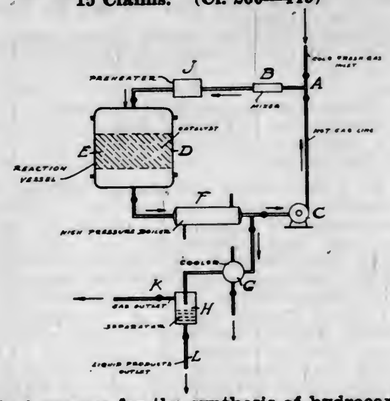
1. A lightning arrester comprising an insulating housing having a shoulder intermediate the ends thereof, an exponential resistor element arranged in said housing and supported upon said shoulder, a current conducting member normally secured to said resistor element by fusible material, indicating means arranged within said housing, and spring means arranged between said element and said indicating means for shifting said current conducting member away from said resistor element upon the melting of said material due to an overheated condition of said element and for simultaneously moving said indicating means to an indicating position.

2,279,052

PRODUCTION OF HYDROCARBONS

Wilhelm Michael and Ernst Plauth, Ludwigshafen-on-the-Rhine, Germany, assignors to Standard Catalytic Company, a corporation of Delaware

Application June 6, 1939, Serial No. 277,630
In Germany June 7, 1938
15 Claims. (Cl. 260—449)



1. A process for the synthesis of hydrocarbons with more than one carbon atom in the molecule

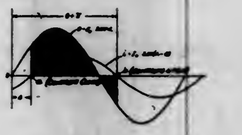
and contingently minor amounts of from liquid to solid oxygen-containing derivatives thereof by conversion of carbon monoxide with hydrogen, which comprises returning to the reaction space gases which have already been subjected to the reaction, the volume of the gases returned per unit of time being at least 20 times that of the fresh gas introduced in said unit of time.

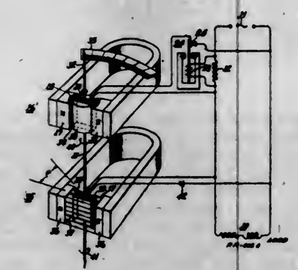
2,279,053

ELECTRIC MEASURING INSTRUMENT

Richard Modlinger, Berlin, Germany, assignor to General Electric Company, a corporation of New York

Application October 21, 1938, Serial No. 236,358
In Germany October 22, 1937
7 Claims. (Cl. 172—245)





1. In a device for measuring and indicating the power-factor of a constant voltage alternating current circuit, a meter, and means including an electroresponsive device operative periodically in synchronism with the current in said circuit for operatively connecting the meter to the voltage of said circuit only during half-cycles of the current which are of one polarity.

2,279,054

CALCULATING MACHINE

Frederick A. Niemann, Chicago, Ill., assignor to Felt & Tarrant Mfg. Co., Chicago, Ill., a corporation of Illinois

Application April 27, 1938, Serial No. 204,707
3 Claims. (Cl. 235—82)



1. In a key driven calculating machine, an accumulator, a segment lever for imparting digital degrees of actuation to said accumulator, a key lock lever, depressable keys for differentially operating said segment lever and said key lock lever, means controlled by said keys for limiting the movement of said segment lever to the selected digital degree of actuation, and means on said key lock lever coacting with said segment lever to prevent the movement of the key lock lever beyond the position to which it is positively moved by depression of a key whereby overthrow and resultant rebound of the key lock lever are prevented.

2,279,055

AUTOMATIC NEEDLE STOP FOR BRISTLING MACHINE

William Penn-Gaskill Hall, Berwyn, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application June 27, 1940, Serial No. 342,767
14 Claims. (Cl. 300—8)



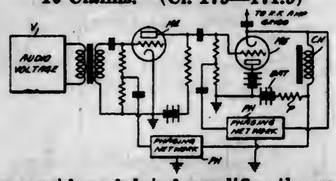
1. In a bristling machine, a support adapted to be reciprocated, a needle rod slidably mounted with relation to said support and mounting a needle at one end and a switch at the other end, means normally retaining said support and said rod in fixed relation, and means on the support effective to operate said switch upon relative movement of said rod and said support.

2,279,056

HIGH EFFICIENCY GRID MODULATOR

Dale Pollack, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application July 25, 1939, Serial No. 286,309
10 Claims. (Cl. 179—171.5)



1. In a grid modulated amplifier the combination which includes a radio frequency amplifier tube having an input electrode, a modulator tube having an output electrode, means coupling said output electrode to said input electrode, said means including a transformer which is so connected that maximum current to said modulator output electrode produces maximum positive potential on said amplifier input electrode, and minimum current to said modulator output electrode produces minimum positive potential on said amplifier input electrode.

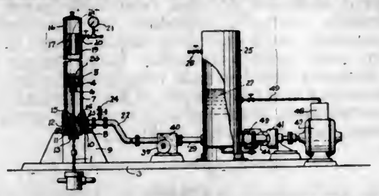
2,279,057

HYDROPNEUMATIC POWER UNIT

Warren B. Reed, New Orleans, La.

Application April 16, 1938, Serial No. 202,440
6 Claims. (Cl. 60—52)

3. In a power unit of the character described for wells, a power reservoir, a recovery reservoir, said reservoirs having gas and liquid under individual pressures therein, a pump to transfer a sufficient amount of liquid from said recovery reservoir to said power reservoir to maintain the desired pressure in said power reservoir, means to operate said pump in response to a fluid pressure in said power reservoir, a pipe connection between said reservoirs and a pump operating device, and means to operate a valve in each of said pipe connections to control the flow of fluid pressure to said device to periodically open and close one valve from said power reservoir to said device and after a determined time interval to open and close the other with a determined time interval thereafter before repeating the cycle.

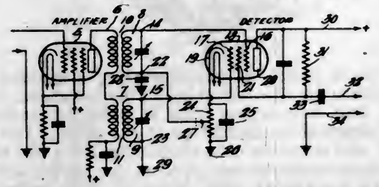


2,279,058

DETECTOR FOR FREQUENCY MODULATION SIGNALS

John D. Reid, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application October 26, 1940, Serial No. 362,911
6 Claims. (Cl. 250—27)



1. A balanced detector for frequency modulated signals comprising in combination a frequency discriminator network having two output terminals, an amplifier tube having two control electrodes connected with said terminals and an output electrode interposed therebetween, said control electrodes having positive and negative mutual conductance characteristics with respect to said output electrode providing opposite and equal slope with predetermined biasing potentials on said control electrodes, an output circuit connected with said output electrode, and means connected with said control electrodes for applying said biasing potentials thereto to effect frequency modulation detection.

2,279,059

REFRIGERATION

Bengt Reistad, Stockholm, Sweden, assignor, by mesne assignments, to Servel, Inc., New York, N. Y., a corporation of Delaware

Application December 19, 1939, Serial No. 309,943
In Germany December 20, 1938
9 Claims. (Cl. 62—126)



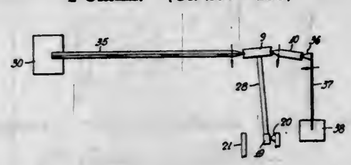
1. In an evaporator, a pair of spaced conduits, and a sheet of metal extending around both of said conduits and maintained under tension in contact therewith by the application of internal fluid pressure to the interior of said conduits.

2,279,060

THERMOSTATIC SWITCH

Henry W. Rimbach, East Orange, N. J., assignor to Technico, Incorporated, New York, N. Y., a corporation of Delaware

Application June 22, 1940, Serial No. 341,881
1 Claim. (Cl. 200—138)



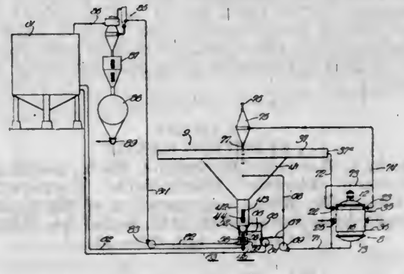
In a thermostatic switch, a substantially straight bimetallic member formed with a pivot point at one end thereof, a spring actuated movable pivot point, a pair of links supported between said pivot points of such size and proportions as to normally cause said movable pivot point to be urged in the direction of the bimetallic pivot point, and a switch arm on one of said links and means for limiting its movement in both directions.

2,279,061

APPARATUS FOR MAKING SALT

Clinton S. Robison, Chicago, Ill.

Application October 23, 1939, Serial No. 300,806
4 Claims. (Cl. 159—45)



2. A grainer of the class described comprising a substantially cylindrical shallow top portion, means for discharging brine into said top portion substantially tangentially thereof, and a downwardly tapering intermediate portion concentric with and depending from said top portion, the upper end of said intermediate portion being of materially less cross sectional extent than said top portion.

2,279,062

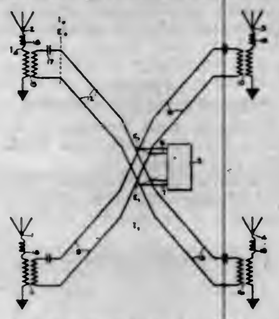
HIGH FREQUENCY SIGNALING SYSTEM

Hans Roder, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application April 29, 1933, Serial No. 668,595
16 Claims. (Cl. 250—11)

15. In combination, an antenna, a transmission line, a coupling between said transmission line and antenna, and means operable through said coupling to control the voltage supplied by

said transmission line to maintain a constant phase relationship between the antenna current



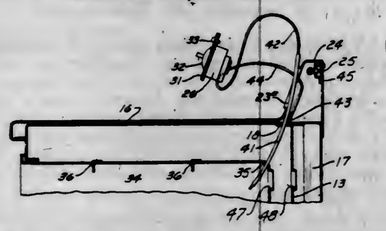
and the voltage supplied by said transmission line.

2,279,063
STOVE CONSTRUCTION
Walter F. Rogers, Oak Park, Ill., assignor to Crown Stove Works, Cicero, Ill., a corporation of Illinois
Application July 14, 1939, Serial No. 284,466
2 Claims. (Cl. 126—39)



1. In a stove structure of the class described, a rectangular horizontal frame member made from a single length of solid angle-iron having portions of its horizontal limb cut away on lines substantially at right angles to its vertical limb and having the portions of its vertical limb opposite said cut away portions bent to form rounded corners coextensive with said cut away portions.

2,279,064
ELECTRIC RANGE
Edwin A. Rutenber, Greenville, Mich., assignor to Gibson Electric Refrigerator Corporation, Greenville, Mich., a corporation of Michigan
Application January 12, 1940, Serial No. 313,493
3 Claims. (Cl. 219—35)



1. In combination: a range having a pair of vertically spaced apart generally horizontal walls and a rear wall extending upwardly from the rear edge of the upper of said horizontal walls, one of said horizontal walls having an opening therein forwardly of said rear wall, said rear wall having an opening therein, said walls and the openings therein being constructed and arranged with respect to each other to provide an unobstructed passageway between said openings below the upper horizontal wall to which free access is afforded from the outside of the range through at least one of said openings; a removable panel for closing the opening in the rear wall; and an electrical heating circuit assembly having one element thereof disposed adjacent the opening in the horizontal wall on the side of that wall remote from the other horizontal wall, a second element mounted on said removable panel, and a flexible connector disposed in the aforesaid passageway and connecting said elements to each other; said flexible connector being longer than the distance between said elements through said passageway whereby either of said elements may be moved away from the adjacent wall while said elements are connected together.

2,279,065
SWITCH CONSTRUCTION
Newton C. Schellenger, El Paso, Tex., assignor to Chicago Telephone Supply Company, Elkhart, Ind., a corporation of Indiana
Original application April 27, 1939, Serial No. 270,280. Divided and this application December 28, 1940, Serial No. 372,085
9 Claims. (Cl. 200—168)



1. In a switch of the character described: an enclosure for the switch including a formed metal side wall having inwardly directed depressions, said depressions extending to one edge of the side wall, and securing ears projecting from the edges of the depressions for securing the switch assembly to a support, said securing ears extending from the inner portions of the depressions so that they lie wholly within the space generally bounded by the side wall and the switch can be mounted on a support no larger in transverse dimensions than the switch enclosure.

2,279,066
CONSTANT FLOW VALVE
Clarence M. Sears, Ayer, Mass.
Application December 5, 1940, Serial No. 368,691
7 Claims. (Cl. 251—86)



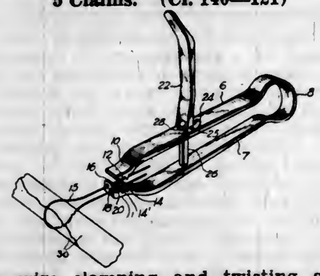
1. In a valve, a housing, a passage in said housing, a rotatable valve stem in said housing, a substantially circular valve plate on said stem, a seat for said plate, said passage terminating in an orifice in said seat, and a slot in said plate, said orifice and slot being located at substantially the same radial distance from the axis of said valve stem, and said slot being open ended and extending inwardly from the periphery of said circular valve plate.

2,279,067
SYNTHETIC PORCELAIN FOR MAKING ARTIFICIAL TEETH AND DENTAL RESTORATIONS
Max S. Shapiro, Brooklyn, N. Y.
Application December 10, 1940, Serial No. 369,446
8 Claims. (Cl. 32—2)



1. A denture comprising a molded base and a molded tooth or molded teeth which are molded integral with said base, the composition of said base and of said tooth or teeth comprising a major portion of a polymerized acrylic ester, and a minor portion of feldspar.

2,279,068
WIRE CRIMPING AND TWISTING TOOL
John R. Siebrandt, Kansas City, Mo.
Application December 11, 1940, Serial No. 369,590
5 Claims. (Cl. 140—121)



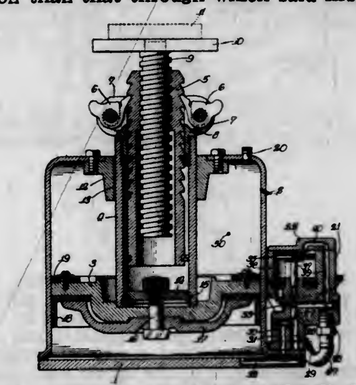
1. A wire clamping and twisting appliance comprising a pair of arms carrying cooperative clamping jaws, one of said jaws having a right angle extension formed with spaced eyelets adapted to guide separate strands of wire in between said jaws and maintain said strands in spaced parallel relation, and means for effecting closing movement of said jaws to clamp the wire therebetween.

2,279,069
MOTOR
Oliver H. Simmons, Chicago, Ill., assignor to Buell Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application April 5, 1940, Serial No. 328,007
13 Claims. (Cl. 121—150)

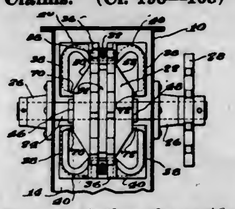
5. In a single acting fluid pressure motor having a lateral cylinder port through which motor exhaust takes place at least in part, a ring of oil-saturated air-permeable material carried on the upper side of the motor piston and which moves across said port, whereby the jet of exhausting fluid can atomize oil from said material and blow it against the piston rod.

6. In a fluid pressure motor, a tubular piston rod and piston secured thereto in the manner described, said rod having an internal annular groove and a locking ring sprung therein and a part retained therein by said ring, and a clamp bolt connecting said part with the piston and thereby clamping the piston rod to the piston.

8. In a single acting fluid pressure motor comprising a cylinder and piston working therein, a valve constantly urged by live fluid pressure to position for admitting motive fluid to the cylinder and reversely operable by opposing pressure to position for exhaust, there being motive fluid inlet and exhaust passages connected in alternation with the cylinder by operation of said valve, said exhaust passage having restricted outlet, a chamber in constant communication with said exhaust passage in which pressure acts on said valve in opposition to said first mentioned pressure and through a larger area of pressure application than that through which said first mentioned pressure acts, and a lateral cylinder port which the motor piston passes in its working stroke and through which when so passed working fluid is temporarily released, said port communicating with said chamber in which upon such release a sudden pressure is created which forces the valve to position for exhaust, said cylinder port affording an additional outlet from said exhaust passage after the motor piston in its return stroke has passed and uncovered said port, the valve being held in exhaust position by the pressure of exhausting fluid so long as the force thereby exerted on the valve exceeds the opposing force thereon.

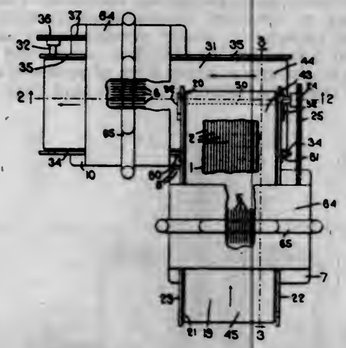


2,279,070
CONVEYER
Alfred Delos Sinden, Aurora, Ill., assignor to Redler Conveyor Company, Quincy, Mass., a corporation of Massachusetts
Application August 12, 1939, Serial No. 289,903
4 Claims. (Cl. 198—168)



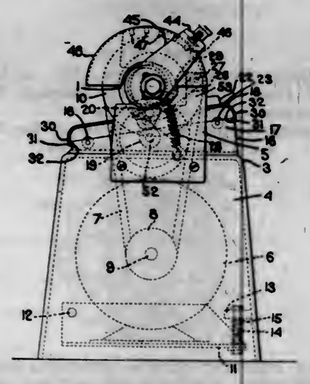
1. In a conveyer of the character described, in combination, a casing, an endless conveying element traversable therethrough comprising a plurality of pivotally connected spaced flights of open construction, and a rotary member having opposed conical surfaces arranged to taper outwardly from the periphery thereof and over which said conveying element passes, said flights being adapted to cooperate with said conical surfaces to be moved into alignment with the side walls of the casing.

2,279,071
MEAT-SLITTING MACHINE
Joseph P. Spang, Quincy, Mass., assignor to Cube Steak Machine Company, Inc., Boston, Mass., a corporation of Massachusetts
Application February 6, 1940, Serial No. 317,479
8 Claims. (Cl. 17—25)



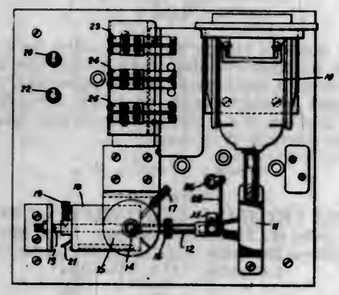
1. A meat-slitting machine comprising two sets of slitting knives, means to feed a slice of meat to said sets of knives successively, the knives of each set being constructed to cut slits in said slices which extend in the direction of the feeding movement of the slices, and means to completely invert the slice during its travel from the first set of knives to the second set of knives, whereby the slits cut by the second set of knives are in the opposite face of the slice from the slits cut by the first set of knives.

2,279,072
MEAT-SLITTING MACHINE
Joseph P. Spang, Quincy, Mass., assignor to Cube Steak Machine Company, Inc., Boston, Mass., a corporation of Massachusetts
Application January 8, 1941, Serial No. 373,533
7 Claims. (Cl. 146—98)



1. A meat-slitting machine comprising a frame, a set of slitting knives rotatably carried thereby, plate-supporting means beneath the knives adapted to support a removable plate carrying the meat to be slit, a grid of resilient sheet metal adapted to be removably carried by the supporting means and having separable interlocking engagement therewith which is maintained by the resiliency of the grid, said grid providing a meat-supporting surface above the lower edges of the knives and having slots in which the knives operate, whereby the knives will cut into strips a slice of meat fed over the grid, and a stripper element to engage the slice while it is being cut and to hold it against the grid.

2,279,073
MARKING DEVICE
Karl R. Stauss, Vestal, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application May 9, 1941, Serial No. 392,758
3 Claims. (Cl. 33—21)

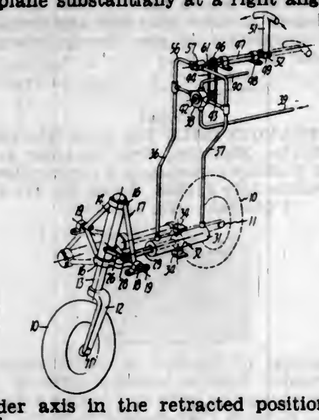


1. A mechanism for preparing a test sheet traced upon by a marking pencil comprising a rotatable drum, a clamp on said drum for holding said sheet wrapped about said drum, a shaft upon which said drum rotates, a pin fixing said drum to said shaft in one of several predetermined positions, a driving motor, reduction gearing connecting said motor to said shaft, a reversing switch, a selecting switch, a connecting link joining the said switches for unitary operation, relays, circuit connections between said selecting switch and said relays for successively operating the latter to stop the said motor within a given time, circuit connections between the said reversing switch and the said motor for reversing the rotation of the latter upon operation of the former, a fin upon the said shaft to engage and operate the said switches after said shaft has rotated less than one complete revolution in either direction, and a weighted receptacle for holding the said marking pencil in contact with the lateral surface of the said drum to mark the said sheet as it is rotated past the said pencil.

2,279,074
AIRPLANE LANDING GEAR
Lloyd C. Stearman, Burlingame, Calif., assignor to Transair Corporation, San Francisco, Calif., a corporation of California
Application June 19, 1939, Serial No. 279,908
5 Claims. (Cl. 244—50)

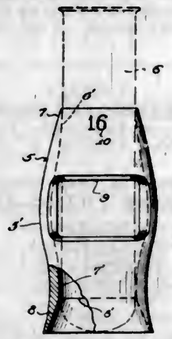
1. In an airplane, airplane structure, strut means pivotally supported on said structure, a wheel, pivotal connecting means between said wheel and said strut means to provide for steering and swivelling movement of said wheel, said connecting means including a shock-absorbing connection, said strut means and said wheel being movable to place said wheel in a retracted position or in a lowered ground-engaging position, a source of fluid pressure, and steering means for said wheel including a pressure cylinder and valve control means between said cylinder and said source of pressure, said cylinder having a pivotal connection with said wheel lying in a plane containing the axis of said cylinder

in the lowered position of said wheel and lying in a plane substantially at a right angle to said



cylinder axis in the retracted position of said wheel.

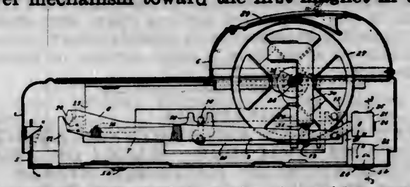
2,279,075
HOLDER FOR TEST TUBES AND THE LIKE
Ralph B. Street and Wendell E. Street, Chattanooga, Tenn.
Application September 26, 1940, Serial No. 358,566
1 Claim. (Cl. 215—12)



A holder for a test tube comprising a rigid tubular member open at each end and adapted to receive the tube, one end of the holder being flared and adapted to form a supporting base to support the holder in an upright position, said holder having an internally restricted upper end and an internal lower ridge therein of substantially the diameter of the test tube for holding the same upright, a central bulge curving away from said tube, and a pair of diametrically opposite sight openings in said bulge extending for a suitable distance around the same to expose the full width of the tube to view therethrough.

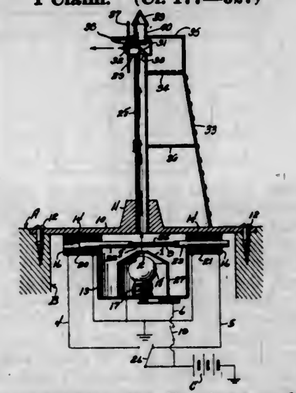
2,279,076
WEIGHING SCALE
John C. Sutton, Rockford, Ill., assignor to The Brearley Company, Rockford, Ill., a corporation of Illinois
Application April 20, 1939, Serial No. 268,959
9 Claims. (Cl. 265—27)

1. In a weighing scale, a base, a platform movably supported thereon on force reducing lever mechanism, and two magnets disposed with the end faces of like poles in closely spaced relation so that their magnetic fields oppose one another, the one magnet being fixed relative to the base and the other magnet being movable with the lever mechanism toward the first magnet in the



loading of said platform, whereby said magnets mutually restrain movement of said lever mechanism by the force of repulsion.

2,279,077
SIGNALING DEVICE
Robert William Sundius, Brooklyn, N. Y.
Application March 18, 1940, Serial No. 324,673
1 Claim. (Cl. 177—327)



In a toy, a tubular signaling tower, a base plate for the tower and having an opening therein, said tower being secured within the opening and rising from the plate, a receptacle, flanges formed on and extending outwardly from opposite walls of the receptacle, said flanges being secured to the under face of the base plate for the latter to provide a lid for the receptacle, ears formed on and depending from the outer ends of the flanges in parallelism with said walls, a lamp bulb mounted in the receptacle for passage of light rays therefrom into the tower, solenoids fitting and fixed between the ears and said walls of the receptacle, pins providing cores for the solenoids and slidably mounted through the ears and said walls, and means including different colored panels secured to and bridging the pins for disposal between the lamp bulb and the lower end of the tower.

2,279,078
TRIMMING DEVICE
Edward V. Swanson, San Francisco, Calif.
Application July 23, 1940, Serial No. 346,941
9 Claims. (Cl. 164—44)



1. In a cutting device, a pair of relatively ad-

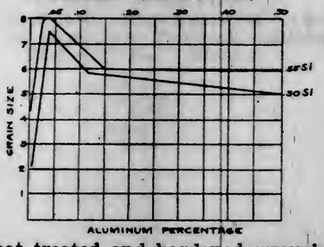
justable superimposed elements, a cutting edge on each of said elements, a cutting element connected to each element in constant operative relation to the respective cutting edge, and means to support said elements in slidable, superimposed relation so as to form a table surface of adjustable width.

2,279,079

HEAT TREATED AND HARDENED ARTICLE OF MANUFACTURE MADE OF FINE GRAINED DEEP HARDENED STEELS

Albert M. Talbot, Fair Haven, and William C. Mearns, Elizabeth, N. J., assignor to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware

Application May 1, 1939, Serial No. 270,992
4 Claims. (Cl. 148—31)



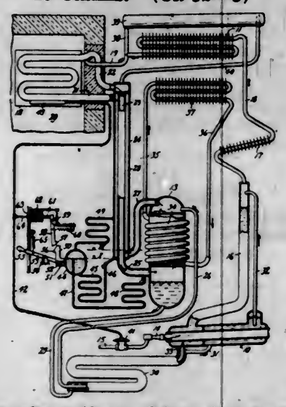
4. A heat treated and hardened wrought article of manufacture made of non-nitrided nickel steel constituted of a deep hardened and fine grained to intermediate grained structure comprising about 0.35% to 1% carbon, 0.4% to 2% manganese, 0.4% to 3.5% nickel, 0.4% to 1.5% chromium, more than 0.05% and up to 0.5% aluminum, more than 0.3% and up to 0.7% silicon, and the balance substantially all iron, said article being characterized by a grain size at least as small as about No. 5 A. S. T. M. and normality under standard test conditions combined with deep hardness and high mechanical properties.

2,279,080

REFRIGERATION

Robert S. Taylor, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware

Application November 22, 1939, Serial No. 305,577
19 Claims. (Cl. 62—5)



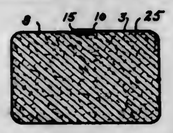
1. In an absorption refrigeration system having a gas circuit including an evaporator and an absorber, an accumulator for collecting liquid in the system, and a flexible conduit connecting said accumulator and a part of said gas circuit to cause liquid to enter into said gas circuit and block off circulation of gas therein when said accumulator is raised.

2,279,081

COMBINATION BALE TIE AND HOLDER

Sam Y. Taylor, Houston, Tex., assignor to H-T Band Socket Corporation, a corporation

Application July 5, 1938, Serial No. 217,457
7 Claims. (Cl. 140—73)



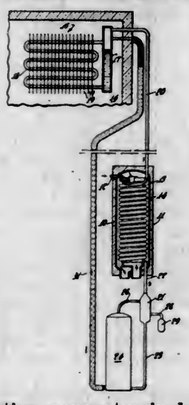
1. A method of forming a combination bale tie and holder from a unitary strip of sheet metal comprising the steps of forming a diagonal fold in the strip so that an end portion thereof extends transversely outwardly from the body of the strip, forming successive reverse bends in the body adjacent the edges of the outwardly extending end, displacing downwardly the overlying metal adjacent the fold so that such metal lies in contiguity with the face of the body portion and wrapping the end portion about the body portion and superposed thicknesses to form an opening adjacent the face of the body portion to engage the other end of the strip when the tie is in use.

2,279,082

REFRIGERATION

Albert R. Thomas, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware

Application June 28, 1940, Serial No. 342,891
6 Claims. (Cl. 62—125)



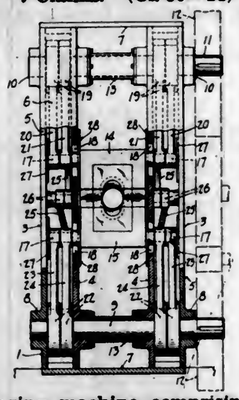
1. Refrigeration apparatus including a cooling element and a circuit for volatile heat transfer fluid having a condenser in heat transfer relation with said cooling element, an evaporator located at a level above said condenser, a chamber in said circuit connected for inflow of liquid condensate from said condenser and outflow thereof to said evaporator, and means operated by subcooling of liquid condensate in said condenser to produce intermittent decrease in pressure of vapor in said chamber to cause said inflow of liquid condensate alternately with said outflow which takes place when the pressure resumes.

2,279,083

SWAGING MACHINE

Julius B. Tiedemann, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York

Application August 8, 1940, Serial No. 351,881
7 Claims. (Cl. 80—14)



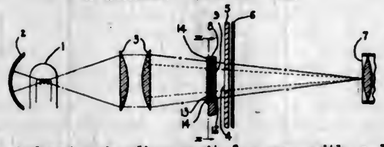
2. A swaging machine comprising a pair of reciprocating swaging dies, a housing disposed on opposite sides of the dies, trunnions on the sides of the dies and extending into the housings through slots in the walls of the housing, a pair of crank shafts extending through each housing and having bearings in the walls of the housing and cranks disposed within the housing, links joining said cranks to the respective die trunnions in the housing for operating the dies from the crank shafts, and means for driving said crank shafts in synchronism.

2,279,084

HEAT SCREEN FOR PROJECTION APPARATUS

Edgar D. Tillyer, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application May 12, 1939, Serial No. 273,363
2 Claims. (Cl. 88—24)



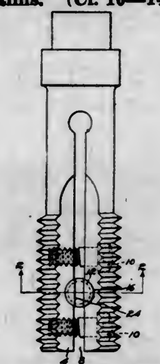
1. A heat retarding unit for use with a light projection system comprising a support having an opening therein through which light may be projected, the portion of the support having the opening therein having substantial thickness producing a wall surrounding said opening, said support having a lip surrounding said opening on one side of the wall thereof, a heat screen of a contour shape to fit within the opening in the support and of a dimension permitting said contour edges thereof to be spaced relative to the wall of the opening throughout said contour edge, heat retarding means between the edge contour of the heat screen and the wall of the opening having a yielding nature for resiliently engaging and supporting the heat screen and means secured on the side opposite the lip having a portion overlying the adjacent side surface of the heat screen adjacent the contour edge thereof for securing said heat screen and holding said heat retarding means in position and allowing the heat screen to expand or contract while held against displacement against said support.

2,279,085

ADJUSTABLE TAP OR THE LIKE

Charles C. Winter, Wrentham, Mass., assignor to Winter Brothers Company, Wrentham, Mass., a corporation of Michigan

Application February 13, 1941, Serial No. 378,763
4 Claims. (Cl. 10—142)



1. A rotary tool of the class described which is kerfed longitudinally to provide relative expansible portions and is provided with a conical opening extending in the plane of the kerf, the wall of which opening is formed with a straight thread, the inner and outer diameters of which respectively lie within and without the surface of the cone at least substantially throughout its length, and an expanding member having a portion with a corresponding straight male thread and an unthreaded portion correspondingly conical.

2,279,086

COMPOUNDED LUBRICATING OIL

Roland F. Bergstrom, Oakland, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application September 23, 1940, Serial No. 358,028
11 Claims. (Cl. 252—33)

1. Lubricating oil suitable for internal combustion engines containing dissolved from .25%–5% of a sulfonate salt and from 1%–10% of a sulfurized ester having at least 10 carbon atoms combining a monohydric alcohol with a monocarboxylic acid, said sulfonate being oil-soluble, free of free acid and combining a hydrocarbon sulfonic acid with a polyvalent metal which forms an oxide that is not readily converted to other oxides under conditions of crank case lubrication.

2,279,087

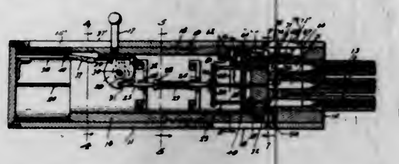
ANTIAIRCRAFT GUN

Patrick J. Bohan, Sailor Springs, Ill., assignor of one-fourth to Glenn R. Easley, Clay City, and one-fourth to R. L. Koyner, Sailor Springs, Ill.

Application October 10, 1939, Serial No. 298,863
4 Claims. (Cl. 89—11)

1. A gun of the class described comprising a housing, a plurality of barrels having their rear ends connected with the front end of the housing and said housing having an opening therein for permitting cartridges to be placed in the

barrels and the empty cartridges extracted therefrom, a cylindrical breech member slidably arranged in the housing, mutilated interlocking threads carried by the housing and the breech member, said housing having an L-shaped slot therein, a handle member connected with the breech member and passing through the slot for moving the breech member in a partial rotary movement and in a longitudinal movement, the partial rotary movement moving the threads of the breech member into and out of engagement with the threads of the housing, a plate, a plurality of firing pins carried by the plate for firing the cartridges, a rod connected with the plate slidably supported in the breech member, a rotary hammer mechanism spring actuated for moving the rod forwardly to cause the pins carried by the plate to fire the cartridges, means



for moving the hammer mechanism into cocking position when the breech member is moved rearwardly, a trigger member for releasing the hammer mechanism, a plate, extractor hooks carried by the plate for engaging rims of the cartridges for ejecting the cartridges after they are fired, said extractor carrying plate being movably arranged on the firing pins, a yoke engaging the ejector plate, a spring plunger for placing the yoke under pressure when the plunger is moved rearwardly, a manually operated member carried by the housing for moving the plunger to apply pressure to the yoke when said member is in one position and said member releasing the pressure when in another position, said member when in pressure applying position engaging the plunger when the breech member has been partly rotated to release its threads from the threads of the housing.

2,279,088

PURIFICATION OF SODIUM MONOXIDE

Harvey N. Gilbert, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 27, 1940, Serial No. 326,268

4 Claims. (Cl. 23—184)

1. The process for removing free sodium from finely divided sodium monoxide containing up to 0.5% by weight of absorbed metallic sodium which comprises heating said monoxide to a temperature not lower than 250° C. in the presence of a gas reactive with sodium, which gas is present in an amount not greater than that which can be confined in the interstices between the monoxide particles in bulk mass and absorbed in said particles.

2,279,089

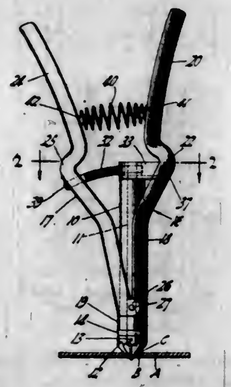
METALWORKER'S TOOL

Marvin C. Herget, Williamsville, N. Y., assignor to Bell Aircraft Corporation, Buffalo, N. Y.

Application April 2, 1941, Serial No. 386,504

3 Claims. (Cl. 77—73.5)

1. In a hand tool for metal workers, a supporting sleeve, a work shaft disposed therein and extending therefrom at opposite ends of said sleeve, a metal cutting bit carried by the extension of said shaft at one end of said sleeve for rotation with said shaft and a pinion secured to the extension of said shaft at the other end of said sleeve, a handle element rigidly associated with said sleeve and extending therefrom at the pinion end of said sleeve, a second handle element pivotally attached to said sleeve at a point spaced axially along said sleeve from said pinion, said



second handle element extending toward and beyond said pinion to present a handle portion opposed to said first handle element, and a rack bar secured at one of its ends to said second handle element and extending therefrom into engagement with said pinion whereby the latter is rotated by pivotal movement of said second handle element to rotate the shaft and the cutting bit carried thereby.

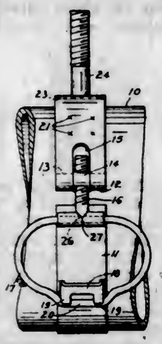
2,279,090

EXHAUST MANIFOLD SUPPORT PIPE CLAMP

Roscoe I. Markey, East Orange, N. J., assignor to Pollak Manufacturing Company, Arlington, N. J., a corporation of New Jersey

Application July 25, 1940, Serial No. 347,375

3 Claims. (Cl. 248—71)



1. An exhaust manifold support pipe clamp having in combination, a split clamping member adapted to surround and snugly engage a member of an exhaust manifold system, means for firmly securing the ends of said split clamping member together, said means providing for diametrical expansion and contraction of said split clamping member, and comprising an eye formed in one end of said split clamping member, said eye be-

ing formed by bending the strip back on itself and securing the bent back portion to the body portion of the strip, a pin mounted in said eye, a hinge piece adjustably mounted in said pin, and a resilient ring-like locking member hinged in said hinge piece, said locking member engaging a locking lug on the other side of the opening in said split clamping member, and a stud, said stud having a flat head secured between the bent back portion of the strip and the body portion thereof.

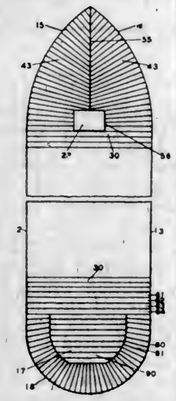
2,279,091

SHIP CONSTRUCTION

John H. Odenbach, Rochester, N. Y., assignor to Odenbach Holding Corporation, Rochester, N. Y., a corporation of New York

Application March 25, 1939, Serial No. 264,090

15 Claims. (Cl. 114—79)



1. A hull, comprising a center section including a series of adjoining transverse encircling channel members; hatches in the top of said hull; a bow section comprising a plurality of contiguous U-shaped channels, each having tapered legs and an intermediate portion, and positioned with sets of the tapered legs in adjoining relation in the top and bottom of said bow section and the intermediate portions in adjoining relation to form the curved sides of said bow section; a stern section including a plurality of shaped channel members, each having a tapered leg, with the tapered legs positioned in adjoining relation in said stern section; a plurality of transverse bulkhead members, of hull cross-section size; one or more longitudinal bulkhead members of hull depth and welded joints between the adjoining members.

2,279,092

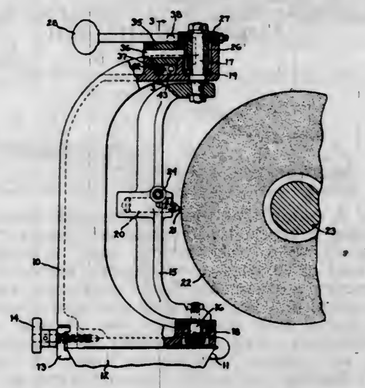
GRINDING WHEEL TRUING APPARATUS

John Olson, Leicester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application February 7, 1941, Serial No. 377,883

4 Claims. (Cl. 125—11)

1. In a truing apparatus for grinding machines having a truing apparatus base, means to clamp said base on a grinding machine, a pivotally mounted frame on said base which is arranged to swing in a circular path, pivotal bearing supports for the ends of said frame to support it on a substantially vertical axis, a truing tool adjustably supported on said frame, a manually operable lever to oscillate said frame and truing tool, a pair of adjustable stop screws on said frame to limit the arcuate movement of said lever in either direction to determine the extreme end positions of said truing tool, a rotatable stop member on said frame having a pair of oppositely extending staggered stop lugs, said



stop lugs being arranged in an intermediate position to facilitate an arcuate movement of the truing tool through 180 degrees, and in its end positions to limit the arcuate movement of the truing tool toward a position with the truing tool axis normal to the axis of the grinding wheel to facilitate truing a quarter-circular face on either corner of the grinding wheel.

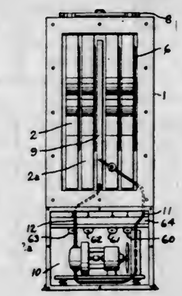
2,279,093

VENDING MACHINE

Louis Peters, Houston, Tex.

Application October 28, 1940, Serial No. 363,106

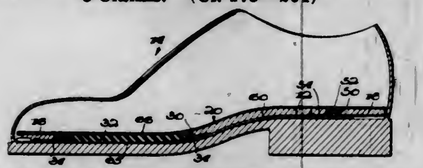
4 Claims. (Cl. 312—48)



1. A vending machine comprising a magazine shaped to contain articles of merchandise to be vended and having a discharge opening toward which the articles are movalbe by gravity, retaining means normally in position to prevent discharge of the articles through the opening and movable to another position to permit the discharge of a single article and to simultaneously prevent discharge of the other articles in the magazine, electro-magnetic means for actuating the retaining means to said other position to permit such discharge and to temporarily delay return of the retaining means to said normal re-

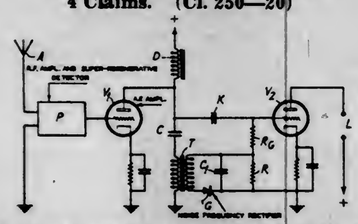
taining position and means effective to cause the return of said retaining means to retaining position.

2,279,094
CONDUCTIVE FOOTWEAR
Anthony Siers, Humboldt, Tenn., assignor to O'Donnell Shoe Company, Humboldt, Tenn., a corporation of Minnesota
Application March 22, 1941, Serial No. 384,743
3 Claims. (Cl. 175—264)



3. A conductive shoe for personal wear, comprising a conductive outsole designed for direct contact with the ground, said outsole being formed of relatively soft flexible material which presents a relatively high resistance to static electrical charges, an inner sole substantially coextensive with the inner face of said outsole, comprising a strip of relatively soft material having an opening therein, an insert of relatively soft flexible conductive material disposed in said opening, said insert also presenting a relatively high resistance to static electrical charges and being conductively connected to said outsole.

2,279,095
SUPERREGENERATIVE RECEIVER
Kurt Sohnemann, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application August 28, 1940, Serial No. 354,469
In Germany January 11, 1938
4 Claims. (Cl. 250—20)

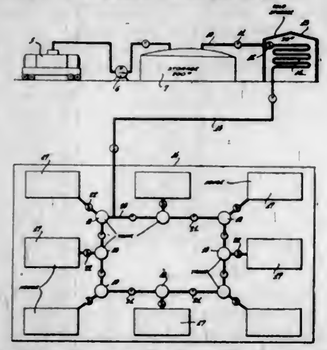


1. In super-regenerative signalling apparatus for modulated wave reception of the type which in the absence of a signal is adversely affected to a considerable degree by noises having a frequency distribution including frequencies which are higher than the modulation frequencies but lower than the quench frequency, means for selecting and rectifying said higher frequencies without affecting said modulation and quench frequencies, and means utilizing the resulting rectified voltage for preventing reproduction of said noises when the amplitude of the resulting rectified voltage is greater than a predetermined amount.

2,279,096
PRODUCTION OF RESIN-LIKE CASEIN GLUE
Trygve Sparre, London, England, assignor to The Borden Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application July 3, 1940, Serial No. 343,768. In Great Britain June 22, 1939
7 Claims. (Cl. 260—6)

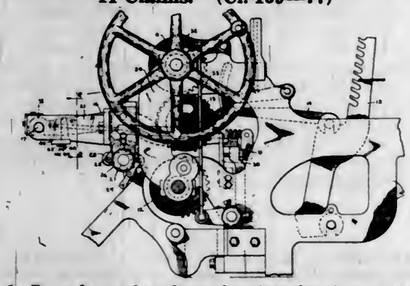
1. A casein glue composition comprising a mixture of undissolved casein and water in amount sufficient to form a spreadable permanent suspension, an amount of urea sufficient to act as a plastifier for the casein but insufficient to put the casein into solution, and an amount of formaldehyde at least sufficient to harden the casein after being rendered thermoplastic.

2,279,097
COMMUNITY REFRIGERATION AND GAS SYSTEM
Virgil Stark, Forest Hills, Long Island, N. Y.
Application August 18, 1941, Serial No. 407,349
7 Claims. (Cl. 62—1)



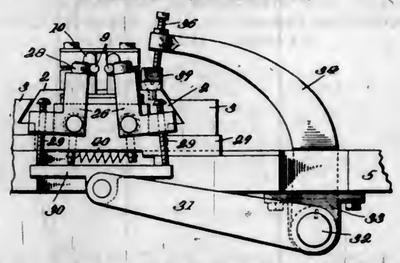
5. The herein described method of refrigeration and gas distribution which consists in the steps of storing liquefied gas under pressure, reducing the pressure on the gas, passing the gas to a plurality of connected individual accumulators adjacent specific points of use, and further reducing the pressure on the gas between any accumulator and its adjacent point of use.

2,279,098
VIBRATOR COMB
William M. Wattie, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application September 29, 1941, Serial No. 412,723
11 Claims. (Cl. 139—77)



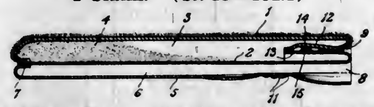
1. In a loom head mechanism having a frame and operating with a plurality of spaced vibrator levers, an elongated comb forming element secured to the frame and having fingers extending between and separating the levers, a second elongated comb forming element separate from the first element and having spaced fingers lying between and separating the levers, and means to hold said elements in any one of a plurality of longitudinally adjusted positions to cause the fingers of one element to be slightly offset with respect to the fingers of the other element in a direction transverse of the comb elements for the purpose of providing guide slots for the levers transverse of the comb elements having a width adjusted to cause proper guidance for the levers.

2,279,099
AUTOMATIC BAG STRINGING NEEDLE
Edward E. West, Richmond, Va.
Application June 4, 1940, Serial No. 338,814
9 Claims. (Cl. 112—173)



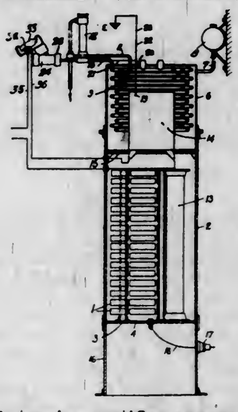
1. In a device of the character described for stringing hemmed bags, a pair of needles for stringing the bag hems, supporting means for said needles and operating means for reciprocating said needles through the bag hems, a pair of members pivotally mounted adjacent the sides of said needles, means on said members adapted to momentarily engage the sides of said needles, and means engageable with said members for actuating said members, and means on said needle supporting means for momentarily moving said means against the sides of said needles for bending the latter in opposed directions for forming openings in the bag hems and entering the needles therethrough.

2,279,100
POWDER-APPLYING MITT OR GLOVE
Henry Worth and Michael D. Goldsmith, New York, N. Y.
Application September 18, 1941, Serial No. 411,324
1 Claim. (Cl. 15—131.1)



A mitt for the application of powder comprising, three mitt-shaped sections of fabric having their edges united for the greater portion of their peripheries, one of said sections being composed of a powder-pervious pile fabric and constituting an applicator face layer for the mitt, the second section being of lighter and thinner material and constituting a back layer for the mitt, said back layer being shirred to contract it around the wrist of the wearer, said shirring being confined to the back section only, whereby the applicator face is free from irregularities and provides a flat, uninterrupted powder-applying surface for its entire length, the third section constituting an intermediate layer and being located between the front and back sections and being powder-impervious, the front section and intermediate section forming a powder-containing pocket between them, said front and intermediate sections being of greater length than the rear section to thereby provide flap portions which are inturned into the powder-containing pocket and located in face-to-face disposition therein to form powder-retaining baffles wholly disposed within the powder-containing pocket and permitting free entry of the hand into and removal from the powder-containing pocket.

2,279,101
HIGH TENSION DRY CONTACT RECTIFIER APPARATUS
Hubert Jean Francois Alriq, Paris, France, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application December 14, 1939, Serial No. 309,274
In France July 27, 1939
4 Claims. (Cl. 175—366)



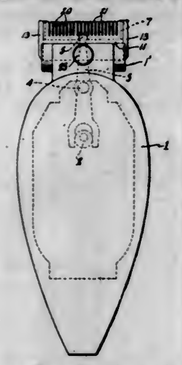
1. In high tension rectifier apparatus in which rectifier elements of the dry contact type are immersed in a bath of highly insulating fluid within a hollow container in such manner that the portions of the individual rectifier elements adjacent to one another are as nearly as possible at the same potential and in which the low potential terminal is insulated from earth, the combination of a cooling device of the circulating liquid type disposed in said bath and having inlet and outlet pipes of insulating material and containing a circulating liquid which is a good insulator, the body of the cooling device being connected to the low potential terminal of the rectifying apparatus and the difference of potential between this terminal and earth being utilized to supply unidirectional current for operating any desired apparatus or device.

4. In high tension rectifier apparatus in which rectifier elements are immersed in a bath of highly insulating material which is kept cool by a cooling device of the circulating liquid type immersed in the bath, the combination of a safety device comprising a magnetizable piston adapted to be displaced by the flow of cooling liquid, a permanent magnet disposed to follow the movement of said piston, and a switch controlling the supply of current to the rectifying apparatus operated by the movement of said permanent magnet.

2,279,102
ELECTRIC RAZOR
James Dobson Altemus, Roslyn, N. Y.
Application October 25, 1939, Serial No. 301,151
3 Claims. (Cl. 30—43)

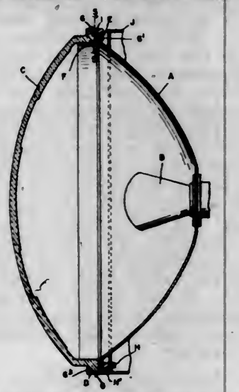
1. In an electrical razor, the combination comprising a shaving head, a longitudinally reciprocatable serrated cutter bar mounted therein, a plurality of co-operating stationary transversely

disposed and longitudinally spaced comb elements carried by said shaving head and having opposed lateral shearing edges which are spaced a relatively great distance from each other, considerably in excess of 10 thousandths of an inch and sufficient to freely admit the entrance of the skin between such shearing edges during a shaving operation thereon if such entrance is otherwise unopposed and longitudinal guard



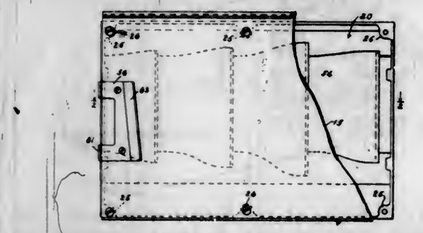
means interconnecting adjacent cutter teeth whose top surface lies flush with the plane which includes the top faces of the cutter bar teeth, said guard means serving to restrict the area of the openings between adjacent shearing edges on the comb elements to prevent the penetration of such skin during a shaving operation thereon below the plane which includes such shearing edges and into the spaces between two successive teeth of such cutter.

2,279,103
LAMP UNIT
Charles W. Anklam, Detroit, Mich., assignor to C. M. Hall Lamp Company, Detroit, Mich., a corporation of Michigan
Application January 30, 1939, Serial No. 253,659
3 Claims. (Cl. 240—41.5)



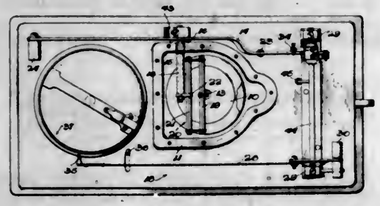
1. A light projecting unit for head lamps comprising a concave reflector, a light bulb nonrotatively secured within and having its filament in focus with said reflector, a patterned lens having a peripheral engagement with said reflector, an annular member having a notched engagement with the peripheries of said reflector and lens to hold all of said parts in predetermined relation to each other, said annular member effecting a sealing engagement between said parts, and locating means on said annular member for positioning said unit in said lamp.

2,279,104
FORM FOR CASTING REFLECTING FACE CURB
Emil Behringer, Richmond Hill, N. Y., and Maurice R. Harrison, Maplewood, N. J., assignors to E. Behringer Sheet Metal Works, Inc., Newark, N. J., a corporation of New Jersey
Application January 17, 1940, Serial No. 314,200
6 Claims. (Cl. 25—118)



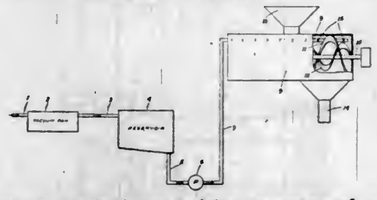
1. A concrete mold including a rigid backing plate, a thin rigid face plate spaced from the backing plate and having end flanges extending toward and engaging with their free edges against the face of the backing plate at the ends thereof, and means for detachably securing the face plate on the backing plate.

2,279,105
TEMPERATURE COMPENSATING MEANS FOR INSTRUMENTS
William G. Boettinger, Baltimore, Md., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application January 4, 1940, Serial No. 312,433
11 Claims. (Cl. 73—4)



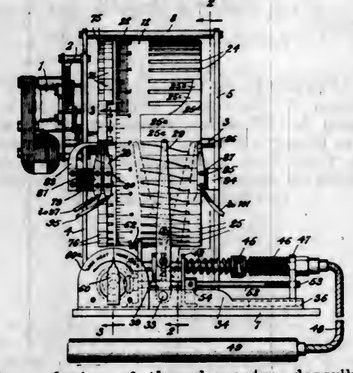
10. In combination, indicating means, pressure responsive means, a motion amplifying linkage connected to said indicating means, a bi-metallic rock-shaft supporting a lever of said linkage, said rock-shaft being adapted to bend in one direction during increased temperatures and in an opposite direction during decreased temperatures, and temperature responsive means comprising a bi-metallic element centrally connected to said rock-shaft and a second bi-metallic element centrally connected with said pressure responsive means, said elements being interconnected at their ends and being normally parallel with and spaced apart from each other whereby upon changes in temperature said elements buckle toward or away from each other, said rock-shaft and said bi-metallic elements defining a variable lever arm for transmitting motion from said pressure responsive means to said indicating means in accordance with changes in temperature.

2,279,106
ANIMAL FEED
Guy I. Brown, Modesto, Calif.
Application September 13, 1939, Serial No. 294,639
1 Claim. (Cl. 99—4)



A food product comprising a mass of edible particles and condensed buttermilk having approximately a 30% solid content with which the particles are coated; the buttermilk being initially in the proportion of not more than 7% by weight of the product.

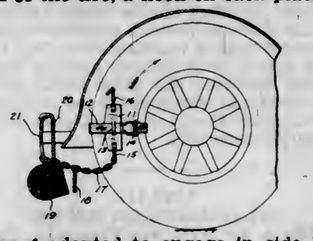
2,279,107
HEAT CONTROLLING AND REGULATING DEVICE
Arthur Cahn, New York, N. Y., assignor to John J. Cahn, New York, N. Y.
Application October 19, 1940, Serial No. 361,985
7 Claims. (Cl. 200—37)



1. In a device of the character described, a rotating drum and means for rotating the same at a predetermined speed, said drum having a circumferential rim, the rim having a plurality of spaced slots extending inwardly from one of its edges, any of said slots being adapted to receive a metal contact member, said contact member having a face portion resting flatwisely against and conforming to the surface curvature of the outer face of the rim, said face portion of each contact member being tapered in width with its widest part situated adjacent to the edge of the drum, said contact member being provided with spaced jaws extending into the slot and resiliently operative against the sides of the slot to retain the contact member in position, a contact finger bearing against the periphery of the drum and riding over the face portions of the contact members disposed thereon.

2,279,108
DEVICE FOR APPLYING CHAINS TO TIRES
Daniel L. Clifford, Bridgeport, Conn.
Application October 31, 1939, Serial No. 302,070
5 Claims. (Cl. 81—15.8)

1. A device for applying chains to tires comprising a pair of plates adapted to be positioned one against each side of a tire, a flexible strap connecting said plates and adapted to pass over the tread of the tire to clamp the plates against the sides of the tire, a hook on each plate at one



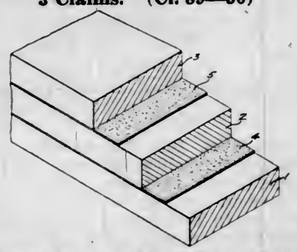
end thereof adapted to engage in side links at one end of a chain to pull it onto the tire on rotation of the wheel, and another hook at the other end of each plate adapted to engage a side link at the opposite end of the chain after the chain has been drawn about the tire.

2,279,109
HEEL FOR BOOTS AND SHOES
Harry Colburn, Kingswood, Bristol, England
Application December 7, 1940, Serial No. 368,987
1 Claim. (Cl. 36—34)



Reinforcement for heels comprising an arcuate member adapted to be attached to the top piece of a heel, the said arcuate member having a vertical portion forming a band round the back of the heel and a horizontal portion being provided with integral teeth adapted to bite into the surface of the top piece for the purpose of securing it thereto, the ends of the horizontal portion being joined by a metal strip the whole reinforcement being formed in one piece.

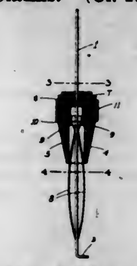
2,279,110
ARMOR PLATE
Allan J. Collins, Stamford, Conn., assignor, by mesne assignments, to Edmund Quincy Moses, Scarboro, N. Y.
Application November 22, 1937, Serial No. 175,840
3 Claims. (Cl. 89—36)



1. Armor plate comprising sheets of steel placed face to face in juxtaposition with each other, and adherent means capable of alone securing and supporting the respective sheets of steel from adjacent sheets without permitting longitudinal or lateral facewise displacement of one sheet relative to the other sheets, comprising sheets of comparatively soft bonding material of consider-

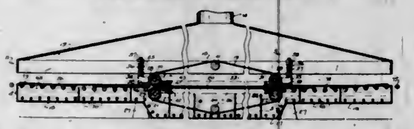
ably less thickness than said steel sheets covering all portions of adjoining faces of the steel sheets and interposed therebetween, said sheets of bonding material constituting the sole securing and supporting means for the steel sheets relative to each other, the steel sheets being arranged one behind the other to present successive independent projectile impact resisting sheet face portions, the steel sheets being spaced only by the sheets of bonding material, the latter being sufficiently thick to prevent transmission of rupturing effects from a forwardly disposed steel sheet to a steel sheet therebehind.

2,279,111
OIL GAUGE ROD WIPER
Myrtle A. De Witt, San Francisco, Calif.
Application July 16, 1940, Serial No. 345,780
4 Claims. (Cl. 15—210)



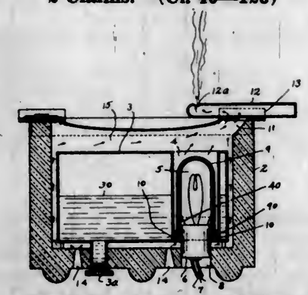
1. An oil gauge rod wiper comprising a sleeve adapted to be slidably mounted on a rod, a pair of opposed outwardly bowed spring fingers to engage with the rod at their ends, the upper portion of said fingers projecting into the bore of said sleeve, the upper portion of said bore in the sleeve being enlarged, a guide bushing for the rod threaded into said enlarged portion of the bore, and extensions on the upper ends of the spring fingers, said extensions projecting in opposite directions laterally and being clamped between the lower end of the guide bushing and the annular face formed by the bottom of said enlarged portion of the bore.

2,279,112
PRESSING APPARATUS
John L. Drake and George B. Watkins, Toledo, Ohio, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application May 28, 1937, Serial No. 145,228
3 Claims. (Cl. 18—17)



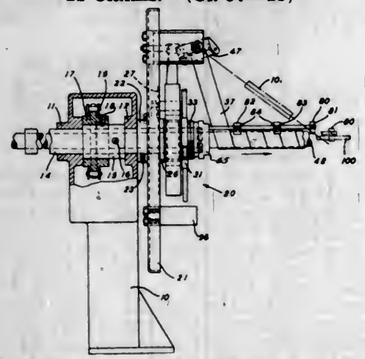
1. In apparatus for compositing laminated safety glass, a plurality of pairs of relatively small pressure rolls arranged relatively close to one another and between which the glass-plastic sandwiches to be pressed are adapted to be passed, cushioning means for receiving the pressure exerted by the pressure rolls and distributing said pressure over the opposite surfaces of said sandwiches, relatively large backing up rolls associated with the small pressure rolls, and intermediate rolls positioned between said backing up rolls and said pressure rolls to permit each backing up roll to back up a plurality of adjacent small pressure rolls.

2,279,113
CIGARETTE ADVERTISING DISPLAY
Augustin L. Dudek, Ashtabula, Ohio
Application April 14, 1941, Serial No. 388,364
2 Claims. (Cl. 40—126)



2. An advertising device consisting of a container simulating an ashtray carrying in effigy upon its rim a partially consumed cigarette, said container including a store of smoke-generating liquid, a well in said container in restricted communication with such store of liquid, a heat source arranged within such well, a wick arranged within the well, said wick being adapted to absorb liquid entering the well and being exposed to the heating influence of said source, said well being ported through the ash-simulating tip of the cigarette effigy to the outer atmosphere.

2,279,114
MATERIAL SERVING APPARATUS
Waldemar C. Ewaldson, Millington, N. J., and Joseph A. O'Handley, Brooklyn, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application August 17, 1940, Serial No. 353,088
11 Claims. (Cl. 57—18)

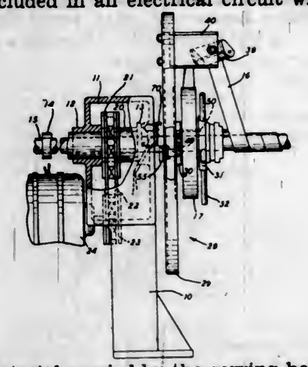


1. A material serving apparatus comprising rotatable means to support a pad of material, means to serve the material singly to advancing cores varying in size, and means variable with the variations in the size of the cables to cause the cables to advance in a definite path.

2,279,115
MATERIAL SERVING APPARATUS
Waldemar C. Ewaldson, Millington, and Randall Gillis, Westfield, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application October 5, 1940, Serial No. 359,876
8 Claims. (Cl. 57—19)

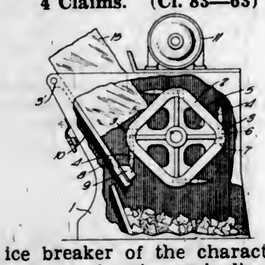
1. A material serving apparatus comprising a

rotatable serving head, an electric motor to cause rotation of the serving head relative to a longitudinally advancing core, an electrical switch included in an electrical circuit with the



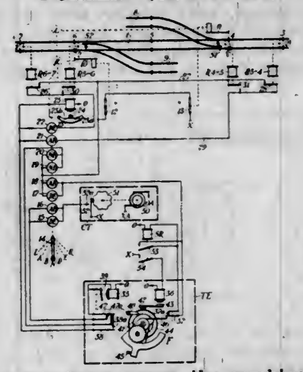
motor, material carried by the serving head and directed to the core, and a control unit held in a position free of the switch by the material and movable to actuate the switch to open the circuit to the motor upon breakage of the material.

2,279,116
ICE BREAKER
Ferdinand Fink, Irvington, N. J., assignor to Gifford-Wood Company, Hudson, N. Y., a corporation of New York
Application May 9, 1940, Serial No. 334,102
4 Claims. (Cl. 83—63)



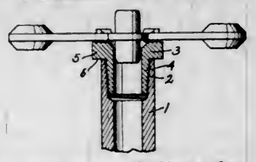
1. An ice breaker of the character described comprising means forming an inclined guide upon which an ice cake may slide under gravity, a drum-like element and means for rotatably mounting said element adjacent said guide means, said element having a plurality of generally axially extending surface zones disposed at a greater radial distance from the axis of said drum-like element than the surface zones intermediate thereof, said intermediate surface zones being substantially free from obstructions throughout the length of said element and so spaced from said axis as to support said ice cake freely to slide in contact with the surface of said element from one zone of greater radius to another as said element is rotated, and a plurality of rows of ice picks having pointed ends respectively secured to said drum-like element substantially in the said zones of greater radius thereof with their pointed ends overlying an adjacent intermediate surface zone, the axis of the pointed ends of said picks forming an acute angle with the said adjacent intermediate surface zone; said element being mounted to rotate in the path of downward movement of said ice cake and to the side thereof opposite to that engaged by said guide means; whereby, when said element is rotated, the pointed ends of said picks will initially engage the side of said cake.

2,279,117
CONTROL APPARATUS
Arthur W. Fisher, Forest Hills, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application January 31, 1940, Serial No. 316,609
4 Claims. (Cl. 246—161)



1. In control apparatus, the combination with a manually operable lever and an electric lock effective when deenergized for restraining movement of said lever; of a time element device including a stepping magnet, a clutch magnet, a first contact which becomes closed only when both said magnets are deenergized, a second contact which becomes closed only after both said magnets have been energized for a predetermined length of time, and a third contact which becomes opened when said second contact becomes closed; means controlled in part by said lever and in part by said first contact for energizing said clutch magnet, means controlled in part by said lever and in part by said third contact for successively energizing said stepping magnet, means controlled by said second contact for energizing said lock to remove the restraint from said lever, and means effective when said clutch magnet becomes energized for maintaining said clutch magnet energized until said lever is subsequently moved away from the position in which said clutch magnet initially became energized.

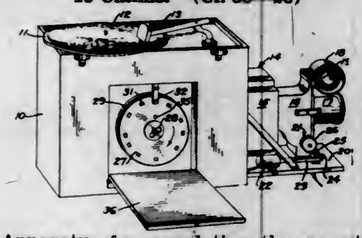
2,279,118
LIFTING PLUG AND WRENCH THEREFOR
James C. Fortune and Robinson W. Brown, Houston, Tex., assignors to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application February 19, 1940, Serial No. 319,576
2 Claims. (Cl. 255—35)



1. In combination, a lifting plug having upstanding projections on its head and an opening through its center between said projections and longitudinally of said plug, and means for turning said plug to attach or remove the same comprising a bar of a size to fit between said projections, and a guide carried by said bar and projecting from the opposite sides thereof at substantially right angles to said bar and adapted to extend into said opening to maintain

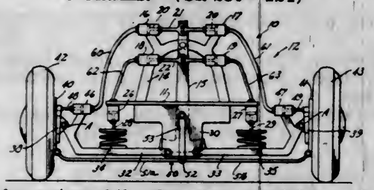
said bar in proper position with respect to said plug, so that said bar may be used either side up on said plug.

2,279,119
COMBINED SOUND AND PICTURE REPRODUCING APPARATUS
Frank Freimann, Fort Wayne, Ind., assignor to The Magnavox Company, Incorporated, Fort Wayne, Ind., a corporation of Indiana
Application June 2, 1939, Serial No. 276,995
13 Claims. (Cl. 88—28)



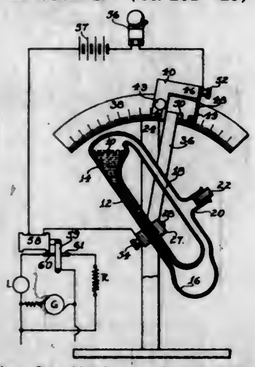
1. Apparatus for correlating the operation of picture projecting means and sound producing means, comprising in combination a sound program reproducing device having a sound record supporting means, means for reproducing sound from the record on said supporting means, means for driving said supporting means, picture projecting means including a film advancing means for advancing a film frame by frame as the sound program progresses, and a picture synchronizing means adapted to be driven by the sound record driving means and in synchronism with the sound record, a rotatable indexing disc, means for rotating said disc in synchronism with the sound record supporting means but at a proportionately slower speed, and a disc-like record on said indexing disc having means for controlling the movement of the picture film to cause the pictures to be projected in synchronism with the subject matter of the sound program.

2,279,120
AUTOMOBILE CHASSIS
Lon G. Hurley, Inglewood, Calif., assignor to James Dobson Altemus, Roslyn, N. Y.
Application June 5, 1939, Serial No. 277,426
6 Claims. (Cl. 280—124)



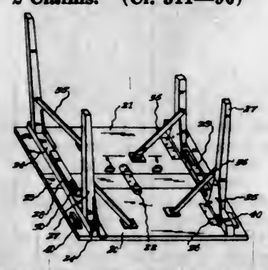
1. An automobile chassis comprising a frame, road-wheels, frame suspension means mounting the frame upon the wheels and means to bank the wheels in a direction opposite the direction of a side thrust comprising wheels spindles pivotally mounted upon the frame suspension means, hydraulic jacks on the said suspension means with control links attached to arms of the spindles at a distance from the pivots and adapted to fix and alter the angle of the spindles, a shiftable weight on the frame actuated by said thrust and returnable to a normal position by gravity, operating connections communicating movement of the weight to actuate the hydraulic jacks and a tie rod between wheels of a pair to insure a uniform banking of the wheels.

2,279,121
DEVICE FOR TIMING CHEMICAL REACTIONS
Samuel S. Kistler, West Boylston, Mass.
Application January 30, 1941, Serial No. 376,672
12 Claims. (Cl. 161—15)



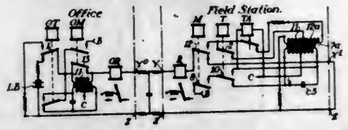
1. A device for timing a temperature dependent chemical reaction comprising walls forming a capillary tube and a reservoir, a viscous fluid in said reservoir having a viscosity-temperature relationship which is substantially the same as the time-temperature relationship of the chemical reaction, means for supporting the tube so that the fluid may be caused to flow therethrough under an impelling force and means for indicating when a predetermined volume of fluid has passed through said tube.

2,279,122
FOLDABLE TABLE
Steve D. Kovalchuk, Detroit, Mich.
Application December 10, 1938, Serial No. 244,905
2 Claims. (Cl. 311—90)



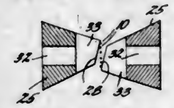
1. A foldable table of the class described, comprising: a top having a stationary central portion; a pair of side leaves swingably connected at one of their edges to the edges of said central portion, said central portion lying between said leaves, and said leaves being swingable into the plane of said central portion and into a position to extend at right angles thereto, forming with said central portion a structure U shaped in cross-section; a transversely extending reinforcement rail fixedly mounted on the under surface of said central portion at each of the ends thereof; a transversely extending reinforcement rail mounted on the under surface of each of said leaves adjacent each end thereof, the rails on said leaves being swingable onto a longitudinal axis into alignment with and clear of the corresponding rail on said central portion and, when swung into alignment therewith, upon the swinging of said leaves to the same plane of said central portion, engaging with said stationary rail at opposed ends for preventing swinging of said leaves relatively to said central portion.

2,279,123
REMOTE CONTROL SYSTEM
Lloyd V. Lewis, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Original application April 17, 1937, Serial No. 137,500. Divided and this application September 21, 1940, Serial No. 357,717
7 Claims. (Cl. 177—353)



1. In a remote control system, two stations connected by a line circuit, a source of unidirectional current, a receiving relay at one of said stations receiving energy from said source over said line circuit, a transformer having its output winding connected to said line circuit at the other station, and transmitting means operable at time spaced intervals corresponding to a code for alternately deenergizing and energizing said receiving relay from said source and for alternately energizing the input winding of said transformer with direct current of one or the other relative polarity to deliver impulses of alternately opposite polarity to said line circuit in step with the operation of said relay, the polarity of said impulses being so chosen with respect to the polarity of unidirectional energization of said relay from said source that the impulse occurring upon deenergization of said relay opposes said unidirectional energization so as to accelerate release of the relay whereas the impulse occurring upon energization of the relay aids said unidirectional energization so as to accelerate pick-up of said relay.

2,279,124
OSCILLOGRAPH
William H. Mayne, San Antonio, Tex., assignor to Olive S. Petty, San Antonio, Tex.
Application June 24, 1941, Serial No. 399,549
6 Claims. (Cl. 171—95)



1. In an oscillograph, the combination with a plurality of parallel oscillograph strings defining a common plane, of means establishing a magnetic field transversely of the strings, said means including opposed pole pieces having parallel faces disposed at an acute angle to the plane of the strings, said pole faces being offset in the direction of a normal to said strings lying in said plane.

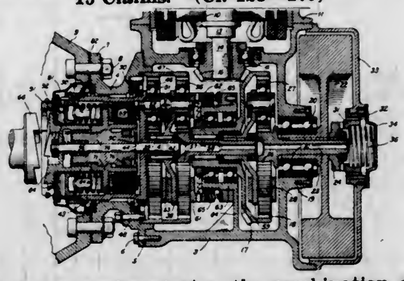
2,279,125
GARMENT
Louis Mintzes, Brooklyn, N. Y.
Application February 20, 1940, Serial No. 319,899
2 Claims. (Cl. 2—79)

2. A garment comprising a bifurcated sport costume and gymnasium suit, said garment comprising front and rear panels extending from the neck to the vicinity of the knees of the wearer, said panels below the crotch having inner extensions connected together forming individual leg enclosing members including a hem, the front and rear panels being folded to provide inverted pleats at the center of the front and back of the garment, said inverted front pleat having releasable closing means, the inverted pleat elements below said crotch at the front and back meeting each other and covering the opening between the said individual bifurcated leg enclosing members,



said individual leg enclosing members terminating in conical leg embracing members, said leg embracing members being secured to said leg enclosing members at the top portion of the said bottom hems, said leg embracing members being of sufficient length to permit movement thereof below the bottom of said leg enclosing members to convert said sport costume into a gymnasium suit, said leg embracing members being adapted to be moved upwardly into a position of concealment under the overlying outer fabric.

2,279,126
ENGINE STARTING MECHANISM
Romeo M. Nardone, East Orange, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application September 26, 1939, Serial No. 296,681
15 Claims. (Cl. 123—179)

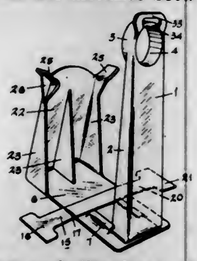


1. In an engine starter, the combination of a rotating inertia member, means for driving the inertia member including a driving gear, a driven gear and an intermediate reactance gear, said reactance gear being rotatably mounted in a rotatable frame, means for connecting said rotatable frame to the engine in a manner to crank the same, means acting upon, and through the agency of, said connecting means for preventing rotation of the frame in one direction, and means acting upon said driving gear for reducing the speed of the driving gear whereby the reaction force on the frame is reversed and the frame is rotated in a direction to crank the engine.

2,279,127
VEHICLE ELEVATING MEANS
Percy F. Parrott, Toledo, Ohio, assignor of one-half to Loretta Parrott and one-half to Marjorie Jeanne Parrott
Application September 20, 1940, Serial No. 357,599
10 Claims. (Cl. 254—94)

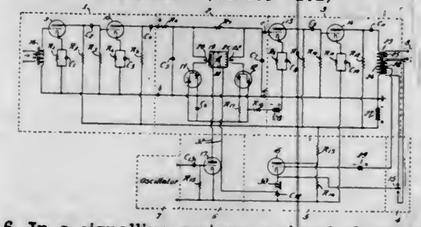
1. A vehicle-elevating device comprising a

movable strut; a base plate; means for removably connecting said strut to said base plate; an upright mounted on said base plate, in spaced relation to said strut connecting means; means mounted on said upright for engaging a vehicle part and spaced a greater distance from said base plate than the vertical distance between the engageable vehicle part and a vehicle-supporting road, when the vehicle is in a normal bearing relation on the road; a member, having a surface for engaging a second vehicle part, mounted on said strut and spaced a greater distance from said base plate than the distance between the second-



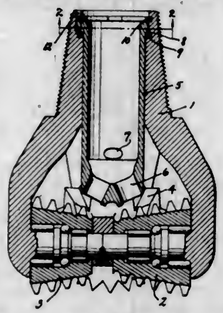
named means and the base plate; the strut adapted to be tilted relative to the road surface to permit engagement of the member surface and second vehicle part and of the base plate with the road and, upon movement of the vehicle over the road, adapted to pivot about the points of engagement of said base plate and road, guiding the vehicle parts through elevating arcs over the road; said member surface having portions, cooperating with the surface of the second vehicle part surface, for directing the first vehicle part downwardly into engagement with the second-hand means, as the member is disengaged from the second vehicle part.

2,279,128
SIGNAL CONTROL
Le Roy C. Paslay, Dallas, Tex., assignor to National Geophysical Company, Dallas, Tex., a corporation of Delaware
Application May 9, 1939, Serial No. 272,563
7 Claims. (Cl. 179—171)



6. In a signalling system, a signal channel, a signal attenuator comprising an attenuating element connected effectively in said channel, said element having the characteristic that the effective attenuation thereby varies with change of current therethrough, a source of control current at a frequency of an order of magnitude greatly higher than that of the signals, a thermionic amplifier the input of which is connected to the source of control current and the output of which is coupled to said attenuating element, a rectifier coupled to said signal channel, the output of said rectifier effectively providing the entire source of direct-current anode potential connected to the anode of said thermionic amplifier, said direct current anode potential being greatly lower than the potential specified for normal operation of said amplifier, and means for varying said anode potential and thus the attenuation of the signals.

2,279,129
DRILL BIT
John V. Pennington, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application January 16, 1940, Serial No. 314,027
1 Claim. (Cl. 255—71)

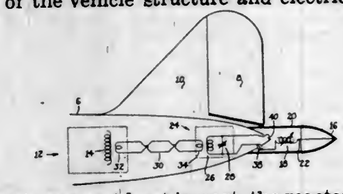


In combination, a drilling bit comprising a head having a relatively large opening longitudinally therethrough for the passage of slush, said opening being counterbored from its upper end for a portion of its length and said counterbore terminating in an annular upwardly facing shoulder, said counterbored portion having a keyway formed therein extending longitudinally of the opening, and having an annular groove therein at a point spaced above said shoulder, a sealing ring seated against said shoulder, and a slush nozzle assembly comprising a hollow tubular member adapted to fit within and cooperating with said opening through the bit head, said member having an external flange adapted to seat removably against said sealing ring to prevent the flow of slush through said head around the outside of said tubular member, said nozzle assembly having a plurality of relatively small openings providing slush nozzles to direct a plurality of streams of slush against the cutting parts of the bit below said opening in the head, said nozzles being close enough together to be within the contour of said opening through the head, whereby the openings forming the nozzles of said slush nozzle assembly may be disposed in a manner to direct the streams of slush therefrom in such ways and directions as may be desired, and whereby said slush nozzle assembly may be replaced with a similar nozzle assembly having its nozzles adapted to direct the streams of slush differently according to the conditions encountered, means on said flange engaging said keyway to prevent relative rotation of said tubular member and said drill bit, and a resilient snap ring adapted to interfit with said annular groove in the counterbored portion of the head and engage the upper surface of said flange to hold said tubular member in place.

2,279,130
RADIO ANTENNA SYSTEM
Malcolm Bruce, Plymouth, Mass.
Application March 21, 1941, Serial No. 384,521
10 Claims. (Cl. 250—33)

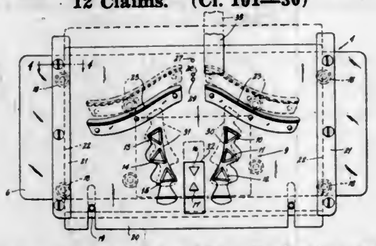
1. In a vehicle having electrically conductive structure and provided with radio equipment, a self-contained resonant antenna system utilizing

a continuous portion of said structure as the antenna for operation at frequencies substantially independent of the equivalent electrical length of the portion of the structure utilized, said system including a reactance mounted adjacent one end of the vehicle structure and electrically ex-



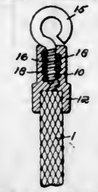
posed to space at least in part, the reactance having a value such that the equivalent electrical length of said system is substantially equal to an even number of quarter-wavelengths of the desired operating frequency, and means for coupling the antenna system to the radio equipment.

2,279,131
DIE
Thaddeus J. Buckey, St. Louis, Mo.
Application April 14, 1941, Serial No. 388,392
12 Claims. (Cl. 101—30)



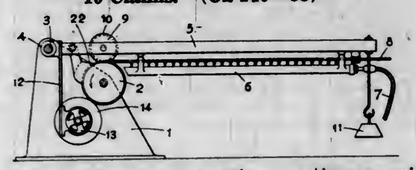
1. A cut out and marking die having a base, cutting elements mounted on the base, a track yieldably mounted on said base and extending in substantially parallel relation thereto, and a marker plate mounted for translation along said track below said cutting elements.

2,279,132
DOBBY CORD TERMINAL
Breckinridge T. Clark, Danielson, Conn., assignor to E. H. Jacobs Mfg. Co., Inc., Danielson, Conn., a corporation of Connecticut
Original application June 22, 1939, Serial No. 280,509, now Patent No. 2,240,982, dated May 6, 1941. Divided and this application March 6, 1941, Serial No. 382,092
1 Claim. (Cl. 24—123)



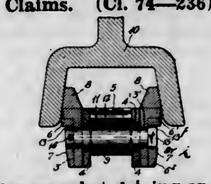
A reinforced dobby cord of the kind described, comprising a braided textile sheath and a wire core, a metallic fastening member having an eyelet, hook, or the like, and a shank formed with a plurality of grooves, the reinforcing wire projecting from the end of the sheath and interlocking with the said shank by engaging the grooves of the shank of the metallic fastener, and molten metal covering, protecting, and bonding the interlocked portion of the shank and wire, and forming a ferrule on the end portion of the sheath.

2,279,133
MANUFACTURE OF PISTON AND OTHER RINGS FROM WIRE
Roland Claude Cross, Bath, England
Application August 8, 1941, Serial No. 406,038
In Great Britain March 18, 1940
10 Claims. (Cl. 140—88)



1. A machine for preparing continuous wire stock for the manufacture of piston or other rings, comprising means for heating the wire, a driven cool mandrel on which the wire is wound while hot, means for guiding the wire to cause same to assume the shape of the mandrel in uniform convolutions, the said heating and guiding means being mounted on a beam pivoted to a shaft parallel to the mandrel, and said beam being adapted to travel on said shaft together with all the heating and guiding and other parts mounted thereon.

2,279,134
CHAIN
Ferdinand H. Dalrymple, Bedford, Ohio
Application April 20, 1940, Serial No. 330,743
4 Claims. (Cl. 74—236)

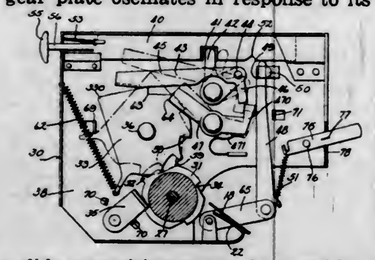


4. A chain for sprocket driving or friction driving or, in part, sprocket driving and, in part, friction driving, comprising longitudinally spaced unitary V-chain elements, and other elements consisting of opposed side bars interspersed with the V-chain elements, and pins articulately connecting adjacent elements, the opposed side bars of said other elements being of sufficient length to permit sprocket driving therebetween, each of said V-chain elements having opposed side bars, each of said last-mentioned side bars having at each end spaced inclined friction surfaces, and bridge members disposed centrally of and connecting the last-mentioned opposed side bars, the connecting pins associated with the respective V-chain elements being seated at their ends in the spaces between adjacent friction surfaces.

2,279,135
PAPER DISPENSING CABINET
John B. Engel, Green Bay, Wis., assignor to Bay West Paper Company, Green Bay, Wis., a corporation of Wisconsin
Application November 27, 1941, Serial No. 420,640
9 Claims. (Cl. 164—84.5)

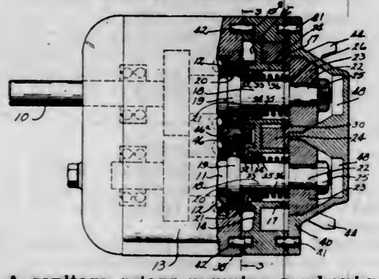
8. A web dispensing device comprising the combination with a feed roller and a tear-off knife having at least a portion yieldably mount-

ed, of a pinion connected with said feed roller to receive motion therefrom, a mounting plate adjacent said pinion, a gear plate rotatably mounted on the mounting plate and provided with teeth in a limited number with which said pinion coacts, said gear plate also being provided with ratchet teeth and with a cam surface, means on the mounting plate providing a stop, a spring biasing said gear plate toward said stop, a pawl pivoted to the mounting plate and provided with means biasing it for engagement with the ratchet teeth of the gear plate, said pawl having an operating extension, a bell crank pivoted to the mounting plate, a lever pivoted to one arm of the bell crank and provided with a portion releasably engageable with said pawl extension, said lever having another portion operable by said cam to release said pawl extension when said gear plate oscillates in response to its bias,



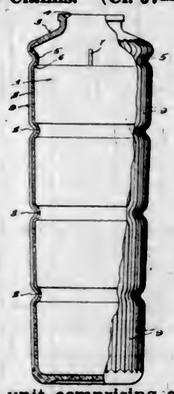
and a slide comprising manually operable means for the oscillation of said bell crank, together with means biasing said slide toward a retracted position of movement, a detent co-operable with the slide to hold the slide in an advanced position of its movement against said bias, and means operatively connecting said detent with a yieldable portion of said cut-off knife for release of said slide in response to web tension across the yieldable cut-off knife portion, whereby the yielding of the cut-off knife is a prerequisite to the return of said slide in response to its bias, and the movement of said slide in opposition to its bias is a prerequisite to the release of said gear plate from said pawl, the release of the gear plate automatically restoring the gear plate to its retracted position to permit a renewed operation of said feed roll and automatically disengaging said lever from said pawl.

2,279,136
ROTARY PUMP
Gilbert R. Funk, Waukesha, Wis., assignor to Waukesha Foundry Company, Waukesha, Wis., a corporation of Wisconsin
Application June 18, 1941, Serial No. 398,550
15 Claims. (Cl. 103—126)



1. A sanitary rotary pumping mechanism for milk and other material containing fat globules or cellular constituents, comprising the combination of a gear casing provided with shaft supporting bearings, a pair of parallel shafts wholly supported by said bearings and having piston carrying working portions projecting through one wall of the casing, connecting bolts permanently mounted in the gear case and projecting therefrom parallel to the working portions of the shafts, a pump chamber body, apertured to receive said connecting bolts and projecting shaft portions, said body having housing sleeves axially enclosing the working portions of the shafts and annularly spaced therefrom, piston hubs detachably connected with the shaft ends in closing relation to the front ends of the sleeves and each provided with a pair of balanced pistons revoluble about the respective sleeves, sealing rings interposed between the sleeves and shafts, and a detachable front wall for the pump chamber body free from bearing contact with the shafts, hubs and pistons, said shafts being free from bearing contact with any portion of the pump chamber.

2,279,137
CANDLE UNIT
Oscar D. Guilfoil, Jr., Syracuse, N. Y., assignor to Muench-Kreuzer Candle Co., Inc., Syracuse, N. Y., a corporation of New York
Application April 12, 1941, Serial No. 388,199
4 Claims. (Cl. 67—21)



1. A candle unit comprising a solid fuel body and an outer, one-piece container of transparent or translucent material having an upward converging contracted top formed with a central opening, the container being formed with an internal annular rib beneath the contracted top, the solid fuel body in the container shouldering at its upper end against the rib, whereby the top of the fuel body initially spaced from the contracted top and so located relatively to the central opening that the wick of the body is located below and out of the opening, said rib serving as a heat conductor for facilitating the forming of a pool of melted wax.

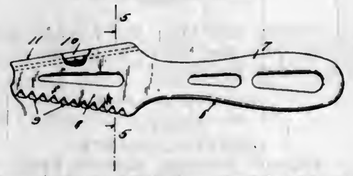
2,279,138
PROCESS OF MAKING ALKYL AMINO FATTY ACID
Clyde Overbeck Henke, Wilmington, Del., and Frank McGrew Schofield, Woodstown, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 8, 1941, Serial No. 382,446
5 Claims. (Cl. 260—404)

1. A process of making an alpha dialkylamino fatty acid which comprises reacting an alpha halogeno aliphatic monocarboxylic acid which contains at least 8 carbon atoms with a water-soluble aliphatic amine having the general formula

$$R-\overset{H}{N}-R'$$

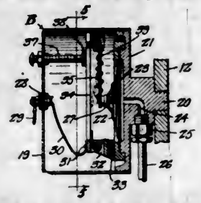
in which R represents an alkyl group containing not more than 4 carbon atoms and R′ represents an alkyl group containing not more than 4 carbon atoms, said reaction being carried out in an aqueous solution which contains at least 2 moles of a strongly basic alkali metal compound for each mole of alpha halogeno aliphatic monocarboxylic acid present in the reaction mixture.

2,279,139
FISH SCALER AND SCRAPER
Edward Johnson, Preston, Minn.
Application August 1, 1940, Serial No. 349,154
1 Claim. (Cl. 17—7)
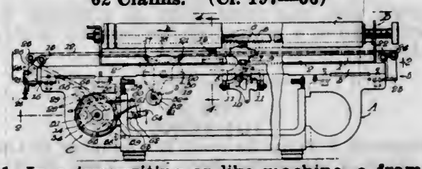


A device of the kind described having a wide body that is relatively thin and having at one end a handle, the longitudinal outer edges of the body being in outwardly converging relation, one of said longitudinal edges having therein a plurality of transversely oblique teeth, the edges of the teeth being relatively sharp and the gullets therebetween being V-shape in cross-section, the other of said longitudinal edges having therein a groove that extends lengthwise thereof and that is V-shape in cross-section, the edges of the body at the sides of said groove being relatively sharp and extending substantially the full length of the body.

2,279,140
ELECTRICAL TIRE PRESSURE GAUGE AND INDICATOR
Leo J. Kellen, Ashton, Iowa
Application July 11, 1940, Serial No. 344,980
2 Claims. (Cl. 177—351)



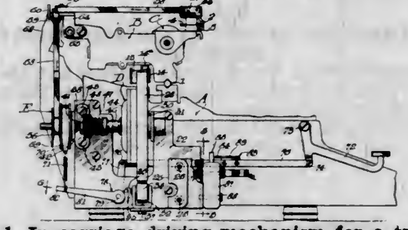
1. In a pressure controlled transmitter, a mounting, a diaphragm carried by said mounting and responsive to a variable pressure source, a contact of an electric circuit secured to and movable with said diaphragm, a spring influenced member movably secured to and insulated from said mounting and opposing the diaphragm, means for electrically connecting said member in the electric circuit, a bi-metal contact carried by said member and coactive with the first named contact for controlling said circuit, an electric heating means for said bi-metal contact and electrically connected to said member, and an adjusting means for the member to vary the position of the bi-metal contact with respect to the first named contact.

2,279,141
TYPEWRITING MACHINE
John Joseph Kittel, St. Albans, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a corporation of New York
Application April 3, 1940, Serial No. 327,707
62 Claims. (Cl. 197—66)



1. In a typewriting or like machine, a frame; a carriage mounted thereon for letter-spacing and return travel; a motor; a fluid coupling including an impeller connected to the motor and a runner fluid-driven by the impeller; a carriage driving element; driving connections interposed between the driving element and both the motor and the runner and including planetary gearing interposed between the driving element and the motor; and means for controlling the connections including the gearing to transmit drive to said driving element selectively from said runner, or from said motor independently of said runner.

2,279,142
TYPEWRITING MACHINE
John Joseph Kittel, St. Albans, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a corporation of New York
Application December 21, 1940. Serial No. 371,196
31 Claims. (Cl. 197—66)



1. In carriage driving mechanism for a typewriting or the like machine including a frame and a carriage mounted thereon for letter-spacing and return travel, a motive element; a carriage-return driving member; means providing driving connection between said member and said carriage; means including an impositive drive transmitting kinetic type fluid coupling interposed between said motive element and said driving member and being constantly conditioned to transmit drive from said motive element to said driving member; and means for starting and stopping said motive element.

2,279,143
TOY PIANO
Raymond J. Lohr, Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York
Application August 15, 1939, Serial No. 290,208
13 Claims. (Cl. 84—404)

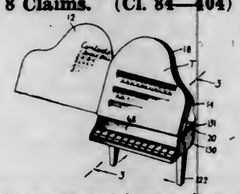
1. A toy piano comprising a row of simulated

piano keys, a metallophone extending across said piano, a slender spring wire secured directly to each key, a hammer head at the end of each



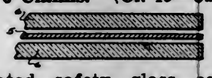
spring wire, the parts being so arranged that depression of a key causes the hammer to strike a corresponding metallophone plate.

2,279,144
TOY PIANO
Raymond J. Lohr, Rantoul, Ill., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York
Original application August 15, 1939, Serial No. 290,208. Divided and this application June 19, 1941, Serial No. 398,766
8 Claims. (Cl. 84—404)



1. A toy piano comprising a piano case, a book mounted on and forming one of the exposed walls of said case, said book comprising front and back covers with a plurality of pages of music bound therebetween, the back cover of said book being pivotally secured on said piano case.

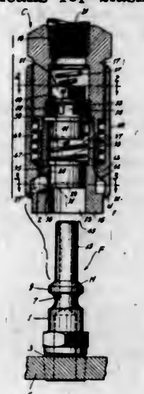
2,279,145
LAMINATED SAFETY GLASS AND PLASTIC THEREFOR
Joseph D. Ryan, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application April 28, 1937, Serial No. 139,516
6 Claims. (Cl. 49—81.5)



1. Laminated safety glass comprising two sheets of glass and an interposed adherent layer of transparent synthetic resin plastic composed of the resinous product formed by the reaction of an aldehyde on partially or wholly hydrolyzed polymerized vinyl ester plasticized with an aliphatic organic acid ester of an ether of diethylene glycol having a single esterifiable hydroxyl group.

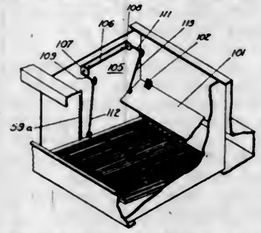
2,279,146
COUPLER
Rudy F. Schneller, St. Louis, Mo., assignor to Lincoln Engineering Company, St. Louis, Mo., a corporation of Missouri
Application April 12, 1941, Serial No. 388,296
3 Claims. (Cl. 285—169)

1. A coupler comprising means for receiving the end of a fitting and having radial openings, radially movable locking members in said openings, an independent sliding sleeve inside the openings and capable of locking said members out, an independent sliding sleeve exterior to the openings and capable of locking said members in, independent means for biasing said sleeves



toward locking positions, the locking members permitting only one sleeve at a time to be located in locking position.

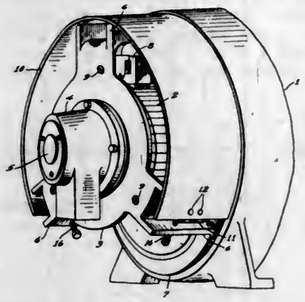
2,279,147
NESTING DEVICE
Edgar E. Stimson, Malcom, Iowa
Application January 27, 1939, Serial No. 253,049
4 Claims. (Cl. 119—48)



1. In a poultry nesting device, a nesting compartment including end walls and a rear wall having an opening in the lower part thereof, a door for substantially closing the opening, an imperforate floor member pivotally mounted near the lower rear corner of the compartment, ears extending inwardly from an end wall and having openings therethrough, a shaft received for free rotation in the openings, lever arms extending inwardly from the shaft, a link pivotally connected to the floor and to one lever arm, a second link pivotally connected to the door and to the other lever arm, and spring means for normally holding the floor member in inclined position.

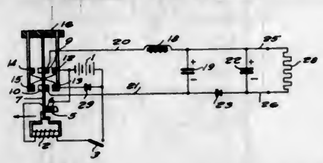
2,279,148
COMMUTATOR COVER FOR DYNAMO-ELECTRIC MACHINES
Carl H. Sutherland, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 15, 1941, Serial No. 374,500
5 Claims. (Cl. 171—252)

5. In a dynamo-electric machine having a current-collecting device at one end thereof, an end bracket at said end of the machine having a plurality of arms extending axially over the current-collecting device, and a cover member supported on said arms, said cover member comprising a sheet metal member of width approximately equal to the length of said arms fitting closely over the arms and having lugs at each end thereof for attachment of the cover to the machine, the lowermost arm at each side of the



end bracket having a hole therethrough, a bolt extending through said hole, a nut on said bolt in position to engage one of said lugs on the cover member, and a compression spring between the nut and the arm to releasably hold the bolt and nut in engagement with said lug.

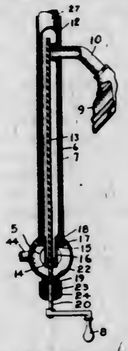
2,279,149
CONVERSION SYSTEM
Gerald L. Tawney, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 28, 1940, Serial No. 367,624
9 Claims. (Cl. 171—97)



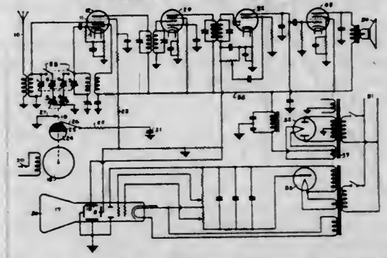
8. In a conversion system for raising the potential of a direct current source, a closed oscillatory circuit including as elements an inductance and a capacity effectively in series with said source, switching means for periodically reversing the polarity of said source in said circuit, actuating means for maintaining said periodic reversals at uniform intervals at each half-cycle of current flow at the instant when current in said oscillatory circuit is substantially zero, whereby the potential gradient of said capacity is periodically increased, circuit means for transferring a portion of the potential charge of said capacity comprising a second oscillatory circuit including an inductance and a capacity adapted to be serially connected between terminals of said first capacity, said first mentioned switching means being operable for establishing said connection only at periodic reversals effecting like polarity charges of said first capacity, and a utilization circuit connected between terminals of said second capacity.

2,279,150
SHOWER
John Thom, New York, N. Y.
Application May 8, 1939, Serial No. 272,369
10 Claims. (Cl. 4—148)

1. In a shower fixture, a spray tube, and a tube into which said spray tube is longitudinally movable, a nut in said spray tube and a screw engaging said nut for adjusting the position of said spray tube in said tube.



2,279,151
PANORAMIC RADIO RECEIVING SYSTEM
Marcel Wallace, New York, N. Y., assignor, by direct and mesne assignments, to Panoramic Radio Corporation, a corporation of New York
Application March 17, 1938, Serial No. 196,520
In France February 21, 1938
36 Claims. (Cl. 250—11)

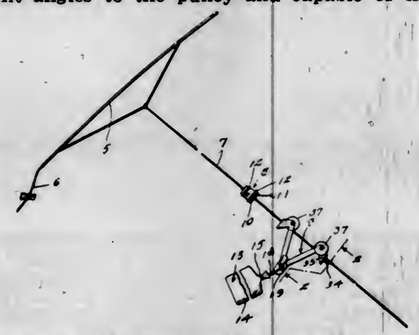


8. In a signal receiving system, a signal receiving circuit, means for periodically tuning said signal receiving circuit over a predetermined band of frequencies, a cathode ray oscillograph, sets of deflecting elements associated with said cathode ray oscillograph, a source of deflecting voltage operative in synchronism with the first said means and connected with one set of said deflecting elements, connections between said signal receiving circuit and another set of said deflecting elements, and means for synchronously operating said tuning means and reversing the said connections of the last mentioned set of said deflecting elements with respect to said signal receiving circuit.

2,279,152
OBJECT CONVEYING AND DISCHARGE DEVICE
George W. Whitehurst, Portsmouth, Va.
Application June 13, 1940, Serial No. 340,406
3 Claims. (Cl. 244—155)

1. A normally extended actuable reversible combined carrier and trolley element for releasably suspending a wind driven object and adapted for travelling upwardly on an inclined track to impact an abutment disposed in the path of travel of and to actuate the element to release the object, said element comprising a pair of oppositely extended selectably shiftable

sections pivotally connected together at a point between their horizontal medians and lower ends, each of said sections having an upper terminal portion offset with respect to its lower terminal portion, said upper terminal portion being provided at its upper end with a revolubly suspended trolley for travelling on the track, an outwardly directed downwardly inclined support on the side edge of said upper terminal portion and an upstanding retainer integral with and disposed at right angles to the outer end of the support for the passage of the track, said retainer being spaced from and disposed at right angles to the pulley and capable of im-



pacting the abutment on the upward travel of said element, each of said sections having its lower terminal portion in the form of an adjustable jaw, a controlling spring common to and connected to said sections for normally maintaining said pulleys in projected relation with respect to each other, said jaws coacting for releasably suspending the wind driven object from said element to cause said object to propel said element upwardly on the track to thereby provide for a retainer to impact the abutment to actuate one of the sections of said elements towards the other to release said object, and said retainers correlating with said pulleys for maintaining the latter on the track.

2,279,153

PROCESS OF OBTAINING METHANOL

William D. Wilcox, Kansas City, Mo.; Mary Palmer Wilcox, executrix of said William D. Wilcox, deceased, assignor to Le Roy J. Snyder, Kansas City, Mo., James V. Richards, Pekin, Ill., and Henry Mills Wilcox, Santa Monica, Calif., as trustees

Application May 19, 1938, Serial No. 208,840

11 Claims. (Cl. 260—449)

1. In the process of obtaining methanol by the synthesis of oxides of carbon and hydrogen effected by their passage under a high pressure in contact with suitable catalysts, the improvement which consists in first passing these gases at temperatures within the range 200° C . to 325° C. through a layer of catalysts which is predominantly of finely divided metallic copper and then at a temperature within the range 300° C. to 450° C. through a layer of catalysts which is predominantly composed of zinc oxide.

2,279,154

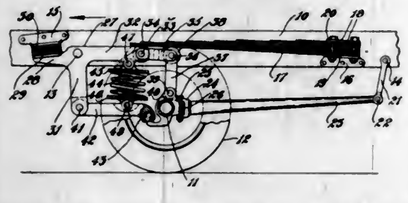
SPRING SUSPENSION

Walter W. Wood, Canton, Ohio

Application December 23, 1940, Serial No. 371,270

10 Claims. (Cl. 267—16)

1. In combination with a vehicle frame, an axle, a wheel carried by the axle, a spring suspension including a T-shape lever pivoted upon the frame at a point spaced from the axle and having one substantially horizontal arm directed toward the axle, a spring cup carried by said last named arm of the T-shape lever, a second spring cup, means connecting the second spring cup to the axle, a coil spring interposed between said spring cups, a roller journaled upon one substantially horizontal arm of the T-shape lever, a lam-



inated spring fixed at one end to the frame and having its free end contacting said roller, a yoke pivotally connected to the said last named arm of the T-shape lever, a second roller upon the yoke, means controlled by the movement of the axle relative to the frame for holding said second roller in contact with the laminated spring, a depending arm upon the T-shape lever, and a lever pivotally connected at one point to said depending arm and flexibly connected at one end to the axle.

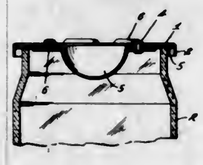
2,279,155

RECEPTACLE CLOSURE AND SEAL

Edwin R. Wright, Airdrie, Alberta, Canada

Application October 24, 1940, Serial No. 362,680

3 Claims. (Cl. 215—38)



3. A seal forming cover for a receptacle comprising an upper plate, a lower plate, both plates having centrally arranged openings therein and a disk of rubber or the like held between the two plates with the lower plate of less diameter than the disk to permit the disk to rest on the upper end of the receptacle, the disk passing across the opening and adapted to have its central portion pushed downwardly to form a seal between the disk and the mouth of the receptacle, and groove forming ribs on the two plates interengaging each other with the ribs of the lower plate pressing portions of the rubber disk into the grooves of the upper plate.

2,279,156

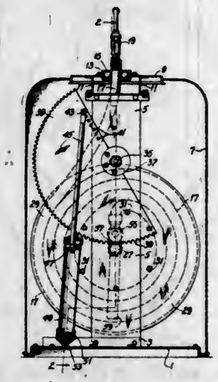
REEL

Frank S. Barks, St. Louis, Lutwin C. Rotter, Maplewood, and Victor G. Klein, St. Louis, Mo., assignors to Lincoln Engineering Company, St. Louis, Mo., a corporation of Missouri

Application May 10, 1940, Serial No. 334,422

10 Claims. (Cl. 242—86)

1. Reeling apparatus comprising a reel for reeling a line, a frame supporting the reel, an operating power cylinder, an operating linkage between the cylinder and reel for delivering power from the cylinder to the reel, said linkage



having a decreasing mechanical advantage between the cylinder and the reel as reeling occurs.

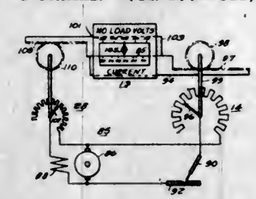
2,279,157

INDICATIVE DEVICE

John H. Blankenbuehler, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application February 16, 1940, Serial No. 319,276

4 Claims. (Cl. 177—311)



1. In a welding circuit, in combination with a generator having no load voltage adjusting means and adjustable current limiting means, indicia means mechanically connected to the current limiting means for indicating the value of the welding current for a given adjustment of the said means, indicia means for indicating the voltage of the generator, and an index mechanically actuable by the field rheostat cooperative with both of said indicia means to predetermine the current and voltage of the welding circuit for given adjustments of the voltage adjusting means and current limiting means.

2,279,158

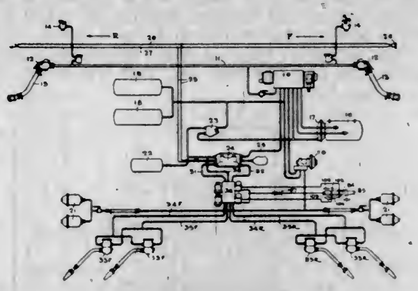
REVERSING SANDER

Charles A. Campbell, deceased, late of Watertown, N. Y., by Carrie E. Campbell, administratrix, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey

Application November 25, 1940, Serial No. 367,142

8 Claims. (Cl. 291—5)

1. In a track sanding system for railway cars adapted to run in opposite directions, the combination of two pneumatically operated sanding units, one for one and the other for the opposite direction of running; a sanding relay for controlling the supply of operating air to such sanding units; a selector valve mechanism having two alternative settings in which respectively it connects said sanding relay selectively in controlling relation with one or the other sanding unit; and means responsive to motion of the vehicle above



a certain speed in relatively opposite directions and arranged to cause shifting of said selector valve mechanism between said alternative settings according to the direction of running.

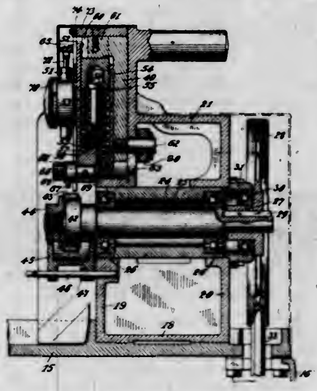
2,279,159

OIL TESTING DEVICE

Thomas L. Camp, Los Angeles, Calif., assignor to Permatex Company, Inc., Brooklyn, N. Y., a corporation of New York

Application June 13, 1940, Serial No. 340,304

7 Claims. (Cl. 265—10)



1. Apparatus for testing the boundary lubrication characteristics of oils, comprising a rotatable member, means for applying a film of the oil to be tested thereto, a second member formed of an alloy capable of retaining its hardness up to around 300° C., means for releasably holding the second member in fixed position, and means for pressing the second member against the rotatable member with progressively increasing force.

2,279,160

HYDRAULIC MOTION CONTROLLING GOVERNOR OR CHECK

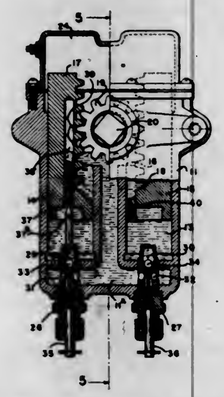
Ernest Davis, Syracuse, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York

Original application March 24, 1939, Serial No. 263,961. Divided and this application June 4, 1940, Serial No. 338,785

7 Claims. (Cl. 188—94)

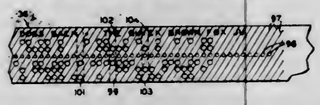
1. A hydraulic governor comprising a reservoir

for hydraulic fluid provided with a pair of upright chambers, plungers working in the chambers, the upper portions of the opposing sides of the chambers above the level of the pressure faces of the plungers when the latter are at the limit of their "up" strokes opening into the reservoir, the plungers being formed with racks on their opposing sides, a shaft extending transversely into the reservoir between the racks and



having means for connection to a rocking actuator, a pinion mounted on the shaft within the reservoir and meshing on opposite sides of its axis with the racks, and passages for the hydraulic fluid communicating with the lower portions of the chambers respectively, one of the plungers being formed with an internal lengthwise passage opening through the pressure face thereof, and a lateral passage opening through the side thereof on which the rack is provided.

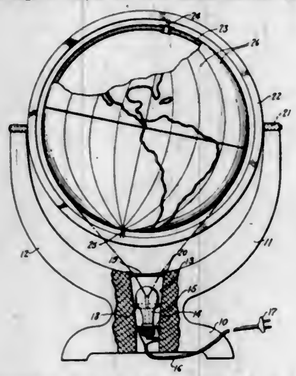
2,279,161
PRINTING TELEGRAPH RECORD FORM
Fernand E. d'Humy, Scarsdale, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application November 16, 1940, Serial No. 365,851
4 Claims. (Cl. 178—112)



1. The method of preparing a record strip for a telegraph system which comprises marking said record strip with lines each linking two different transverse sections of said strip, recording each character in one form in one of said two different transverse sections, and recording each character in another form in the other of said two different transverse sections.

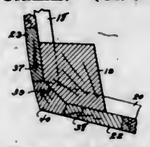
2,279,162
ILLUMINATED GLOBE
Raymond R. Dupler, Toledo, Ohio
Application February 24, 1940, Serial No. 320,559
1 Claim. (Cl. 240—2)

The combination of an indicia-carrying globe of translucent material, a support for pivotally mounting said globe in spaced relation thereto, said globe support formed with a recess, a light source mounted in such recess to be shielded thereby from an observer, and a lens mounted in the open end of such recess for confining the directed light rays to the maximum area of the



globe surface which is presented to said light source.

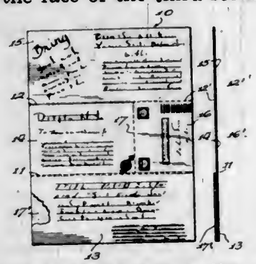
2,279,163
V-BOAT
Anton Gasparich, Oakland, Calif.
Application July 29, 1940, Serial No. 348,192
3 Claims. (Cl. 9—6)



1. In boat hull construction, a longitudinally extending keel member, a plurality of bottom ribs extending transversely of the keel member, a chine section extending longitudinally at each side of the hull and connected to the said ribs, the said chine section having a groove in its outer portion providing an upwardly extending exterior face and an outwardly directed face, the grooved portion of the chine section being shaped to provide a plurality of longitudinally spaced recesses along the upstanding face and set inwardly therefrom, a plurality of upstanding side ribs having their lower end portions fitted in the said recesses with their outer faces flush with the said upstanding face of each groove, and side planks fastened against the outer faces of the side ribs and the groove with the lowermost edge thereof resting on the outwardly projecting face of the groove.

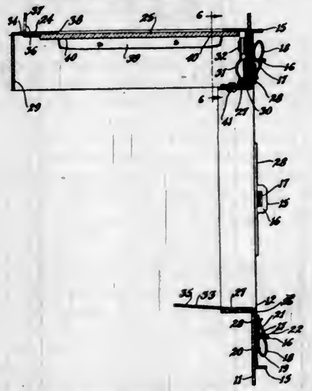
2,279,164
ADVERTISING FOLDER
Samuel R. Gettleman, Chicago, Ill.
Application December 30, 1940, Serial No. 372,229
1 Claim. (Cl. 283—56)

In an advertising folder of the character described, a single integral sized sheet member formed of three rectangular sections joined along their long sides, a weakened line between one end section and the remainder of the sheet member, said end section having an unsized member affixed to one face thereof whereby same comprises a blotter removable from the remainder of the sheet member for retention by the recipient of the advertising folder, said blotter having advertising indicia upon the sized face thereof, the second section of said sized sheet having a transverse weakened line spaced from one edge thereof and a weakened line extending from said transverse line to said edge disposed between said second section and the third section, said last mentioned line and said transverse line cooperating with a portion of the weakened line between the first and second sections to define a removable rectangular member in said second section, indicia upon both sides of said rectangular member constituting same a return card, advertising indicia upon the face of the remainder of said second section common to the sized face of said first section cooperating with the indicia on said first section and further indicia on the face of the third section common



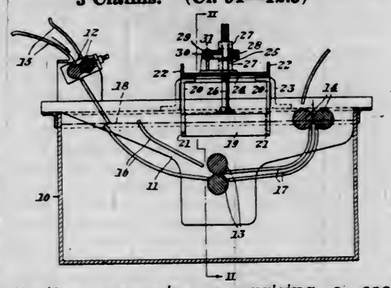
to the sized face of the first section cooperating with indicia on the remainder of said sheet member, the sheet member being foldable along lines between sections to form a package substantially the size of said sections whereby same may be sealed and sent through the mail without the use of additional enclosure, the first section being completely enclosed within said package upon said folding, the third section having mailing indicia upon its face common to the unsized face of the first section, said mailing indicia adapted to be exposed upon the folding and sealing of said package.

2,279,165
COVER FOR METER ENCLOSURES
Richard W. Grace, Canton, Ohio, assignor to The Superior Switchboard & Devices Company, Canton, Ohio, a corporation of Ohio
Application May 31, 1938, Serial No. 210,929
1 Claim. (Cl. 220—82)



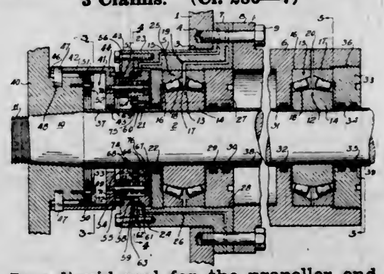
A meter enclosure having a front wall provided with an opening, a closure member for the opening having a portion extending beyond the opening and fitting against the inner side of the front wall, an angular flange upon said closure member extending through said opening, a cover having an angular flange around its edges fitting over the angular flange of the closure member, one edge portion of the cover flange being hingedly connected to the flange of the closure member, perforate ears mounted upon the inner side of said front wall surrounding said opening, spring clips located through said perforate ears and engaging over said closure member, each spring clip being of U-shape with a short leg adapted to substantially contact the side of said perforated ear opposite said opening, and a long leg extending through said perforated ear and in clamping engagement with said closure member and having a transverse corrugation intermediate its ends anchoring said clip in said ear.

2,279,166
COATING APPARATUS
Ralph W. Hodil and John C. Redmond, Youngstown, Ohio
Application May 8, 1940, Serial No. 333,982
3 Claims. (Cl. 91—12.5)



1. Coating apparatus comprising a coating bath, a displacing member adapted to be submerged in the bath, means for varying the submergence of said member, and means actuated in accordance with changes in the level of the bath for controlling said last-mentioned means to raise or lower said displacing member.

2,279,167
ROTARY SEAL
Arthur M. Jackson, Los Angeles, Calif.
Application September 30, 1940, Serial No. 359,046
3 Claims. (Cl. 286—7)



1. In a liquid seal for the propeller end of a shaft, a shaft, a fixed main housing enveloping a portion of the shaft, an annular flange depending from the housing toward the shaft and having opposite facing sides, an annular groove in each of said sides, a stationary sealing ring in each of the grooves having faces protruding in opposite directions from the flange, a connecting cup having a perforated base receiving the shaft and having its open portion facing the near end of the shaft, a plurality of connecting studs along the rim of the cup extending toward the shaft and adapted to engage a portion of a propeller, a disc spaced from the base of the cup and having

a perforation receiving the shaft, resilient means connecting the disc with the cup and which urges the disc toward the cup, an annular groove in said disc and said cup base, a rotary sealing ring in each groove, all of the said sealing rings having equal radii with respect to the shaft so that the faces of the rotary rings slide along the faces of the stationary rings.

2,279,168

PROCESS FOR KOVAR-GLASS SEALS

Philip R. Kalischer and Herman H. Schmitt, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application February 29, 1940, Serial No. 321,456
4 Claims. (Cl. 49—81)



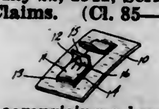
1. The method of forming a seal between a cobalt-nickel-iron alloy and glass, which comprises the steps of first heating the alloy for a period of three minutes at 850 degrees C. in an atmosphere of air, permitting it to cool to substantially room temperature, placing the alloy in contact with glass in an enclosure having an atmosphere of substantially pure non-oxidizing and non-reducing gas, heating it to a temperature sufficient to thoroughly fuse said glass, and allowing the seal to cool slowly to room temperature.

2,279,169

SHEET METAL FASTENER

Harold W. Kost, Birmingham, Mich., assignor to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan

Application May 22, 1941, Serial No. 394,648
3 Claims. (Cl. 85—36)



1. A fastener comprising a longitudinally cambered spring metal body, a pair of cooperating tongues struck from the body with the free end portions adjacent each other, upturned end portions on said tongues providing a stud-receiving opening therebetween of a diameter less than the diameter of the stud for which the fastener is intended, said upturned end portions being shaped snugly to embrace the stud for which the fastener is intended and of such dimension as to engage same over a substantial area thereof, each tongue adjacent the body inclining abruptly away from the body and then merging into an elongate portion disposed substantially parallel to said body and terminating in said upturned end portion whereby the tongues are urged in an arcuate path toward the stud and inwardly toward said body.

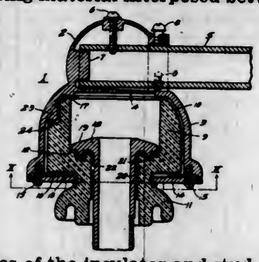
2,279,170

INSULATED SUPPORT FOR LIGHTING UNITS

Samuel B. Kraut, Cleveland Heights, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application September 14, 1938, Serial No. 229,853
4 Claims. (Cl. 174—138)

1. An insulated support for a lighting unit comprising, an inverted cup-shaped metal housing member provided with means for attachment to a support, a substantially tubular insulator disposed within the housing and having an enlarged head portion, an external shoulder and an internal shoulder provided with a recessed portion, a mounting stud having an enlarged head portion carried by said internal shoulder of the insulator and provided with a depending boss member to engage said recessed portion of the internal shoulder, cementing material interposed between adja-



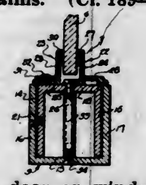
cent surfaces of the insulator and stud, means for preventing relative rotational movement between said insulator and said housing comprising a boss projecting inwardly of said housing adapted to engage a corresponding recess in the head portion of said insulator, a split plate member adapted to engage said external shoulder to support the head portion of said insulator within said housing, and means for detachably securing said plate to said housing.

2,279,171

DOOR OR WINDOW FRAME CONSTRUCTION

Clyde D. Lowry, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

Application December 30, 1939, Serial No. 311,898
5 Claims. (Cl. 189—76)



1. In a metal door or window frame of the character described, sections formed of inner and outer complemental metal channel members interfitting one another to provide a tubular formation, means for securing the inner channel members together, while the outer channel members are independent of one another, and means for securing the outer channel members to the respective inner channel members.

2,279,172

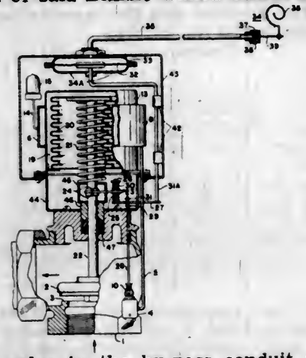
CONTROL MECHANISM

Stanley Mayner, Cleveland Heights, Ohio

Application March 16, 1939, Serial No. 262,193
4 Claims. (Cl. 236—68)

1. Temperature control mechanism of the character described comprising in combination, an expansible fluid operated regulating and controlling valve of a heating fluid supply, a heating chamber for the expansible fluid, a by-pass conduit for by-passing a portion of the heating fluid to said heating chamber, a by-pass valve in said by-pass conduit and adapted to be actuated by said regulating and controlling valve, a thermostatic controlling means sensitive to variations in temperature and including a conduit

system having a flexible walled chamber at one end and a two-way control valve at the other open to atmosphere, means connecting the flexible wall of said flexible walled chamber to the



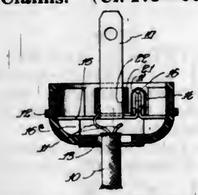
by-pass valve in the by-pass conduit whereby said flexible wall is actuated when said by-pass valve is moved, and said thermostatic controlling means adapted to control the position of said flexible wall and said by-pass valve.

2,279,173

ELECTRIC PLUG

Raymond McCutcheon, Chicago, Ill.

Application July 16, 1940, Serial No. 345,820
3 Claims. (Cl. 173—361)



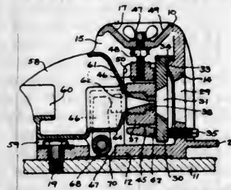
1. In an electric plug having a body of insulating material provided with a circuit wire passage, a terminal comprising a base flange secured in the plug body, a contact prong extending therefrom, said flange having a portion doubled upon itself at a point spaced from the prong and apertured to receive a circuit wire therethrough, and a metal cap detachably engageable over said doubled portion to confine therebeneath a wire when trained through and over said doubled portion.

2,279,174

WIRE DRAWING APPARATUS

Weld Morgan, Worcester, and John N. Whalen, Boylston, Mass., assignors to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts

Application February 17, 1940, Serial No. 319,388
14 Claims. (Cl. 205—25)



1. Wire drawing apparatus comprising a die box, a member mounted therein, a die block mounted behind said member, spring means yieldably urging the die block forwardly into engagement with said member, and means to adjust the angular position of the member relative to the die box and thereby vary the cast of the wire.

2,279,175

MULTIWICK FLOATING CANDLE

Thomas J. Muench, Syracuse, N. Y., assignor to Muench-Kreuzer Candle Co., Inc., Syracuse, N. Y., a corporation of New York

Application July 21, 1941, Serial No. 403,330
3 Claims. (Cl. 67—22.5)



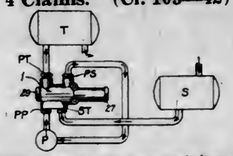
2. A multi-wick floating candle including a candle body composed entirely of consumable material having a horizontal dimension sufficiently greater than its vertical dimension to enable the candle body to float unsupported in a stable, upright position at the surface of an open body of water, the body being symmetrical relative to the center of gravity of the body, and a plurality of wicks embedded in the body and arranged with their outer exposed ends spaced apart from each other and located in different radial directions relatively to the center of gravity of the body, the wicks converging toward the center of gravity of the body whereby the combined action of the wicks, when the candle is burning, causes the candle body to hollow out substantially uniformly from the rim of the body to the center thereof providing a hollow shell protecting the flames from the water and causing the body to remain in upright stable position without a separate float or extraneous container for the candle.

2,279,176

HYDRAULIC CONTROL

Harvey S. Pardee, Ravinia, Ill.

Application July 31, 1940, Serial No. 348,643
4 Claims. (Cl. 103—42)



1. A hydraulic system comprising in combination a liquid storage sump, an accumulator for storing liquid under pressure, a pressure-developing pump having an inlet connection normally in communication with the sump and a discharge connection normally in communication with the accumulator, a check valve arranged to prevent reflux from the accumulator to said discharge connection, and a combined unloader and relief valve mechanism comprising a movable abutment subject to the pressure in the discharge connection between the pump and the check valve, yielding means reacting upon said abutment in opposition to discharge pressure, and a valve mechanism arranged to be actuated by said abutment and controlling communication between the sump and the pump inlet connection and between the pump discharge connection and the sump, said valve mechanism assuming a normal position unless the pump discharge pressure exceeds a chosen value and in which the sump is

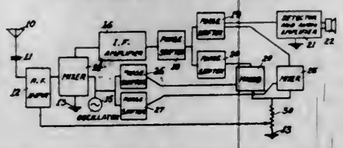
connected with the pump inlet and isolated from the pump discharge, and assuming an unloading position when said pressure moderately exceeds said chosen value and in which said sump is disconnected from pump inlet and discharge, and which assumes a relief position when said pressure substantially exceeds said chosen value and in which the sump is disconnected from the pump inlet and connected with the pump discharge.

2,279,177

SUPERHETERODYNE RECEIVING SYSTEM

Jozef Plebanski, Warsaw, Poland

Application June 26, 1940, Serial No. 342,508
In Germany December 4, 1939
12 Claims. (Cl. 250—20)



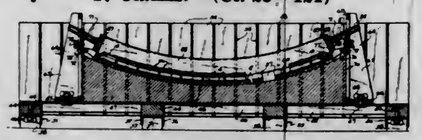
1. In a superheterodyne receiver subject to image frequency interference, an input circuit for receiving radio frequency signals, a local oscillator, first frequency changing means energized from said input circuit and said local oscillator for producing intermediate frequency signals, means to produce a pair of fractional intermediate frequency signal energies having a quadrature phase relation with respect to each other, further means to produce a pair of fractional local oscillating energies having also a quadrature phase relation with respect to each other, additional frequency changing means for combining each of said fractional intermediate frequency energies with either of the fractional oscillating energies to produce resultant energies at signal and image frequency, and means for combining and feeding back said resultant energies upon said input circuit.

2,279,178

MOLD FOR MAKING CURVED COMPOSITE BUILDING BLOCKS

Erle T. Putnam, Detroit, Mich., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

Application June 5, 1941, Serial No. 396,744
17 Claims. (Cl. 25—121)



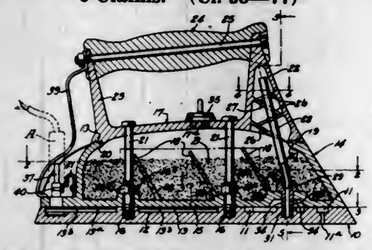
1. In apparatus for use in the manufacture of curved composite building blocks of the type including a molded body portion, a curved ornamental face plate covering the front surface of said body portion and metal holders arranged at the edges of the face plate and engaging the body portion for securing said face plate to said body portion; comprising a supporting bed having a curved upper surface for supporting the curved ornamental face plate horizontally thereon, clamping means for securing the face plate in fixed position upon said supporting bed and for also clamping the metal holders in proper association therewith, and a mold arranged above the face plate in surrounding relation thereto for receiving the material forming the body portion.

2,279,179

ELECTRIC IRON AND DAMPENER

Edward P. Schreyer, Milwaukee, Wis.

Original application October 3, 1938, Serial No. 232,931. Divided and this application August 30, 1939, Serial No. 292,544
6 Claims. (Cl. 38—77)



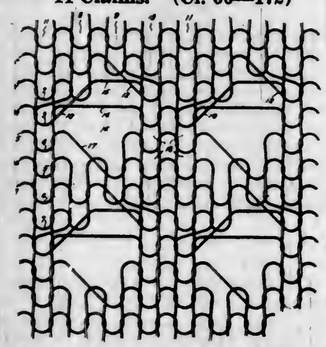
3. An iron comprising a shoe formed with steam perforations, a container forming a reservoir for water above the shoe having a top opening, a cover for said opening, means for heating water in said container to produce steam, a pipe for conducting steam from the upper portion of said water container to the steam perforations in the shoe, a baffling member carried by the lower side of the cover and of less width than the water container and depending into said container, and transversely alined spaced apart baffling members supported within the container between which the cover baffling member fits when the cover is in place.

2,279,180

TWO-WAY STRETCH STRAIN ABSORBING BAND WITH ALIGNED RELAXED MESHES

Howard B. Snader, Temple, Pa., assignor to Vanity Fair Silk Mills, Reading, Pa., a corporation of Pennsylvania

Application July 25, 1939, Serial No. 286,471
11 Claims. (Cl. 66—172)



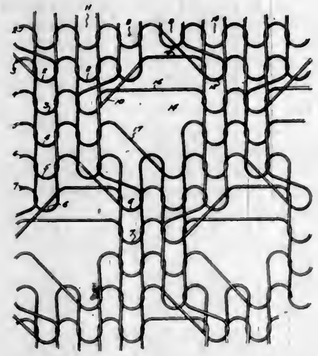
1. In a knit stocking of the strain absorber type, a strain absorbing band integrally knit in the stocking above the knee, the fabric of said band including alternate groups of courses consisting respectively of a plurality of courses of fine gauge covered rubber yarn and a plurality of courses of fine gauge inelastic yarn, said fabric being formed with circumferential series of meshes, the meshes of successive courses being aligned in walewise rows with continuous wales between said rows, each mesh being formed by drop stitches in the courses of elastic yarn locked by loops in the wales of said drop stitches, in courses of the precedingly knit inelastic yarn, transferred to loops of inelastic yarn in said continuous wales, the inelastic loops of the continuous wales being strengthened by their doubling with the transferred loops from the meshes, and the elastic loops of said continuous wales having fullness derived from the coursewise adjacent drop stitches, said elastic loops constituting nuclei of elasticity, breaking the stiffness of the strengthened continuous wales.

2,279,181

STOCKING WITH ELASTIC STRAIN ABSORBING BAND INCORPORATING RELAXED MESHES

Howard B. Snader, Temple, Pa., assignor to Vanity Fair Silk Mills, Reading, Pa., a corporation of Pennsylvania

Application July 25, 1939, Serial No. 286,472
12 Claims. (Cl. 66—172)



1. In a knit stocking of the strain absorber type, a strain absorbing band integrally knit in the stocking above the knee, the fabric of said band including alternate groups of courses consisting respectively of a plurality of courses of fine gauge covered rubber yarn, and a plurality of courses of fine gauge inelastic yarn, said fabric being formed with circumferential series of meshes, each mesh being formed by runs in adjacent wales emanating from staggered dropped stitches starting respectively in the last and next to last knit courses in a group of elastic courses, said runs being locked by staggered stitches oppositely transferred from said adjacent wales respectively in the last and next to last inelastic courses in the precedingly knit inelastic group, whereby said mesh is bounded at one end by inherently relaxed transferred loops tied by a full bar of inelastic yarn bridged across one wale, closed at the opposite end by a full bar of elastic yarn bridging the other wale, and having an intermediate bar of elastic yarn of double fullness acquired from both wales bridging its sides.

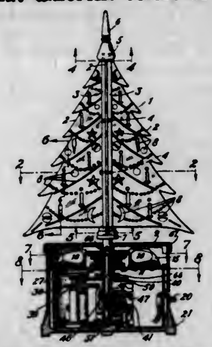
2,279,182

ORNAMENTAL TREE

Eugene L. Snyder, Canton, Ohio

Application February 26, 1940, Serial No. 320,860
2 Claims. (Cl. 240—10.1)

1. An ornamental tree including a base, a tree mounted upon the base and formed of a plurality of flat vanes of transparent material capable of transmitting light and having recessed ornamental faces in opposite surfaces thereof capable of reflecting said transmitted light, a multi-colored light source mounted upon the base projecting light to said vanes, and means in the base for producing relative rotation between the tree and the multi-colored light source so that different colors of light are successively transmitted through the vanes, and reflected outwardly by said ornamental faces.
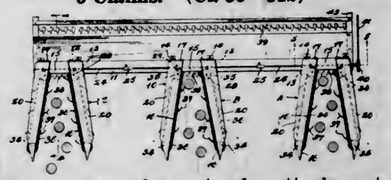


2,279,183

THREE ROW HARVESTING MACHINE

John B. Stimatze, Syracuse, Kans.

Application March 20, 1941, Serial No. 384,377
5 Claims. (Cl. 56—312)



2. In a row crop harvester for attachment to a combine in advance of the forward travel thereof comprising a mounting plate, a plurality of harvesting units on the plate spaced longitudinally thereof, said units comprising rearwardly diverging side plates, stalk-engaging means carried by the diverging plates, said stalk-engaging means comprising chain members movable in a rearward direction and having lateral extended fingers for engaging a stalk to be cut, means for moving the chain, and a cutter bar fixed to the mounting plate between the diverging plates mounted at a level lower than the cutter bar of the combine.

2,279,184

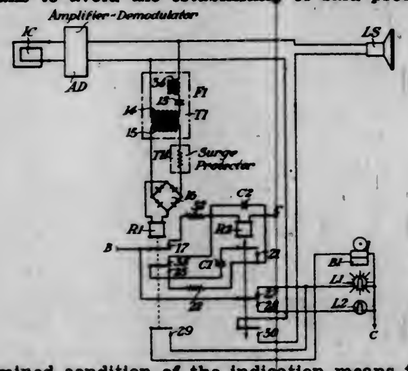
RECEIVING APPARATUS FOR COMMUNICATION SYSTEMS

Andrew J. Sorensen, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application June 21, 1941, Serial No. 399,136
9 Claims. (Cl. 179—82)

1. In receiving apparatus for a communication system using a carrier telephone current and a signaling current equivalent to the carrier modulated by a preselected voice frequency, the combination comprising, a demodulator arranged to receive such currents and operative to cause current of the voice frequencies to appear at its output terminals when the telephone current is received and to cause a current of said preselected frequency to appear at its output terminals when the signaling current is received, a direct current relay, circuit means including a filter tuned to pass only current of said preselected frequency and a rectifier to connect said relay to the demodulator output terminals for energization of the relay when said signaling current

is received, indication means controlled by said relay and operable to a predetermined condition when the relay is energized, delay means including a condenser associated with said indication means to avoid the establishing of said predetermined condition of the indication means for a given delay period when current is passed by said filter, and means including a contact of said relay to discharge said condenser to assure said given delay period when current is repeatedly passed by said filter.

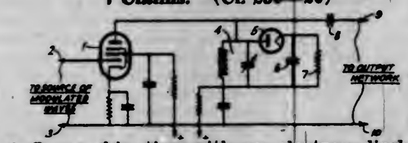


2,279,185

RECEIVER CIRCUITS

Bernardus D. H. Tellegen, Eindhoven, Netherlands, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware

Application September 27, 1939, Serial No. 296,717
In the Netherlands October 15, 1938
7 Claims. (Cl. 250—20)



4. In combination with an electron discharge tube having input and output electrodes, said input electrodes being adapted to have signal-modulated carrier voltage applied thereto, a signal-modulated carrier voltage output network coupled to the output electrodes, a second network connected between the output electrodes for controlling the effective percentage modulation of the applied modulated carrier voltage comprising a peak detection rectifier and a resonant circuit, said resonant circuit being tuned to the carrier frequency, and said output network utilizing the controlled modulated carrier voltage developed across said resonant circuit, said rectifier including in circuit therewith a load resistor, and the impedance of said load for alternating currents of modulation component frequencies being different than the ohmic resistance thereof.

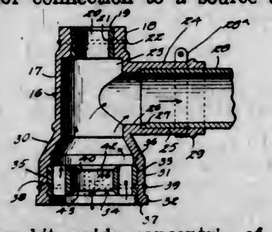
2,279,186

COMBINED DUST COLLECTOR AND DRILL HOLE CLEANER

Warren Franklin Terry, West Somerville, Mass., and Russell Edward Goodenough, Northfield, Vt.

Continuation of application Serial No. 338,436, June 1, 1940. This application January 10, 1941, Serial No. 374,014
8 Claims. (Cl. 255—50)

1. As a new article of manufacture a combined dust collecting and agitating hood for drills comprising a yieldable hood member having an open side engageable with the work and a drill bit receiving opening coaxial with said side, a laterally projecting suction nipple carried by said member for connection to a source of suction, an annular bit guide concentric of said hood member and disposed in the inner portion of the latter, said guide having a downwardly and inwardly directed fluid passage, and means extending from said guide and through said member for connecting said passage to a source of fluid pressure.



2,279,187

ALTERNATING ELECTRIC CURRENT RECTIFIER OF THE SELENIUM TYPE

Leslie Ernest Thompson and Alexander Jenkins, London, England, assignors, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

No Drawing. Application December 13, 1939, Serial No. 309,040. In Great Britain January 11, 1939
7 Claims. (Cl. 175—366)

3. A process for the manufacture of alternating electric current rectifiers of the selenium type in which, after the selenium coating or layer has been subjected to a heat treatment and a counter-electrode applied thereto, a reverse current of approximately 200 m. a. per sq. cm. is caused to flow through the rectifier for a period of time sufficient to heat the rectifier to a temperature of over 100° C., the rectifier is allowed to cool, and a reverse current of approximately 200 m. a. per sq. cm. is again caused to flow through the rectifier for a period of time sufficient to heat the rectifier to a temperature of over 100° C.

2,279,188

SHIRT

Frank M. Titelman, Altoona, Pa.

Application February 17, 1940, Serial No. 319,543
2 Claims. (Cl. 2—115)



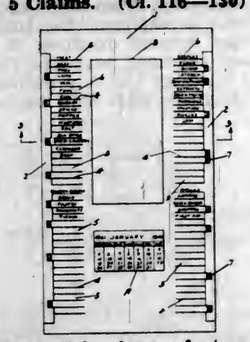
1. In a shirt a front panel having a lower edge and outer side edges formed with upwardly and inwardly inclined upper portions, a back panel having lateral upper extensions forming complete integral sleeve members, said extensions folded on themselves and secured together along the lower portion of the sleeve formed thereby, said back panel having a central upper neck edge, and integral spaced apart upper front forming portions, said front forming portions being folded with the sleeve, and over the shoulder, and each having its upper edge secured to one of the inclined portions of the side edges of the front panel of the shirt.

2,279,189

REMINDER APPLIANCE

Charles H. Uhlir, Cleveland, Ohio

Application August 11, 1941, Serial No. 406,358
5 Claims. (Cl. 116—130)



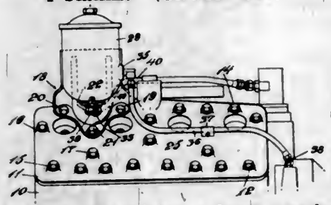
5. As a new article of manufacture, a reminder appliance comprising a single sheet of material provided at an edge thereof with a series of slits forming the slitted portion of said sheet into a series of contiguous tabs, reminder indicia carried by said tabs, corresponding ends of the tabs being integral with the sheet and the opposite ends being freely movable so that each tab may be moved to an adjusted reminder position independently of the other tab, the sheet being formed adjacent the edge portion thereof provided with said slits, and tabs, with an extension that is folded over onto the top of the sheet and adapted to overlie the free or movable ends of the tabs, said extension having adhesive material applied thereto at its opposite ends so as to adhesively connect it to the body of the sheet at points beyond the area of the sheet at which the slitted tabs are formed.

2,279,190

OIL FILTER BRACKET

James W. Wilkinson, Providence, R. I., assignor to Fram Corporation, a corporation of Rhode Island

Application May 20, 1940, Serial No. 336,165
4 Claims. (Cl. 248—300)



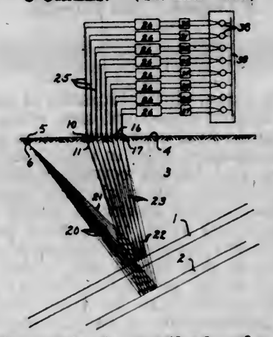
1. A bracket comprising a base member having three portions disposed in triangular relation and in substantially a single plane, each of said portions being provided with a hole to receive one of the threaded studs normally used for holding the removable head of an engine on the engine block so as to secure said base to the engine head, a second member integral with and angularly related to said base to provide an arm which extends upwardly therefrom to occupy a substantially vertical position when said base is secured to an engine head, said arm being provided with a concave upper portion of considerable length arranged to receive and be affixed to the outer cylindrical surface of a filter casing for supporting it in an upright position, and a bulging portion formed in the angle between said base member and said second member and extending between said members toward the concave portion of said arm.

2,279,191

METHOD AND APPARATUS FOR SEISMIC SURVEYING

Joseph L. Adler, Houston, Tex., assignor to Fabian M. Kannenstine, Houston, Tex.

Application August 13, 1940, Serial No. 352,419
3 Claims. (Cl. 181—0.5)



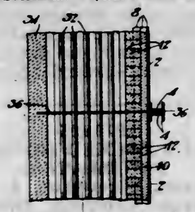
1. In the seismic method of geophysical prospecting wherein a plurality of spaced detectors convert arriving seismic impulses into pulsations of electrical energy to obtain frequency analyzed seismic records, the steps of transmitting the pulsations from each point of detection to an amplifier, coordinating a series of band pass filters, conducting the amplified impulses through such series of band pass filters, the band of frequencies passed by each individual filter being different from that passed by each of the other filters so that the series of filters when coordinated together pass the spectrum of frequencies present in the arriving seismic impulses, and recording in separate traces the impulses passed by the respective filters.

2,279,192

PIPE STILL FURNACE STRUCTURE

David G. Brandt, Westfield, N. J., assignor to Cities Service Oil Company, New York, N. Y., a corporation of Pennsylvania

Application December 14, 1938, Serial No. 245,567
2 Claims. (Cl. 122—510)



1. In a pipe still furnace for heating fluids, an improved side-wall structure comprising a plurality of vertically extending side-wall panels each comprising a sheet metal backing attached to rigid outside vertical supporting members, adjacent panels being joined together by attaching a vertical supporting member on the side of one panel to the adjacent vertical supporting member on the side of the adjoining panel, a tube sheet secured between the vertical supporting members of two adjacent panels and extending therefrom into the furnace chamber, the portion

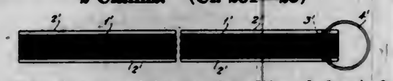
of said tube sheet extending into the furnace chamber being provided with holes for tubes, and tubes for heating fluids mounted in the holes of said tube sheet.

2,279,193

BOOK CONSTRUCTION

William A. De Hart, Teaneck, N. J., assignor to Kamket Corporation, New York, N. Y., a corporation of New York

Application July 15, 1940, Serial No. 345,457
2 Claims. (Cl. 281—25)



1. A book comprising a plurality of sheets having their binding edges and side edges substantially contained in planes vertical to a plane containing the topmost sheet in the closed condition of the book and having correspondingly spaced perforations along their binding edges and a unitary sheet binder having a length substantially equal to the width of the book and having portions thereof extending through successive perforations in said sheets and loosely securing the sheets to enable individual sheets to be shifted as a whole relative to the other sheets in the book, the perforations of each sheet being arranged in a row disposed in substantial parallelism with its binding edge, the rows of perforations in the sheets being variably spaced from the binding edges of the sheets in a graduated manner and the successive perforations in the sheets being variably spaced from a side edge of the book so that a line extending through the centers of a set of successive perforations will be bent from the straight and offset from a vertical plane containing the side edges of the sheet on one side of the book, the portions of said binder intermediate the outermost sheets of the book being bent in a manner substantially similar to said line and offset in substantially the same manner as said line.

2,279,194

AZEOTROPIC DISTILLATION

Edmund Field, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 22, 1940, Serial No. 353,674
5 Claims. (Cl. 202—42)

1. A method for the removal of cyclohexane from admixture with benzene which comprises treating a cyclohexane-benzene-containing mixture with methyl acetate and distilling off the resultant cyclohexane-methyl-acetate-containing azeotrope.

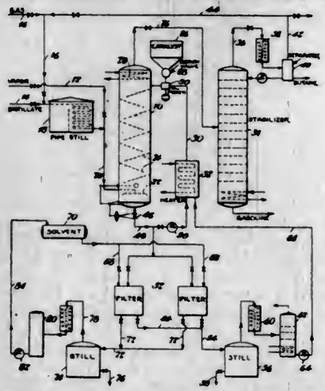
2,279,195

REFINING CRACKED MOTOR FUEL DISTILLATES

Heinz Heinemann, Shreveport, La., assignor to Forward Process Company, Hillside, N. J., a corporation of Delaware

Application October 28, 1939, Serial No. 301,741
4 Claims. (Cl. 196—36)

1. In a process for removing gum-forming constituents from cracked motor fuel distillates, the steps comprising continuously passing such distillates in vapor phase through a baffled contact treating chamber, contacting the distillate vapors in said chamber with a counterflow stream of liquid slurry of finely divided anhydrous phosphorus pentoxide catalyst suspended in an oily polymer product of the catalytic treatment, maintaining the temperature in said chamber in the range 350°–450° F., throughout the period of contact to prevent substantial condensation of distillates under treatment while promoting separation from the vapors of high boiling polymer products of the treatment, removing refined treated distillate in the vapor state from said chamber, removing from another part of said chamber the oily polymer catalyst slurry in admixture with high boiling polymer



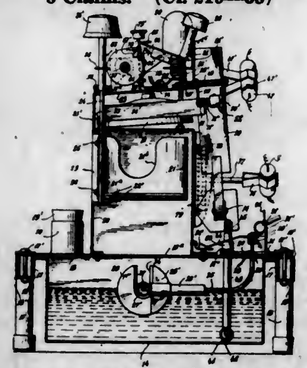
products, recycling part of the polymer-catalyst slurry back to the chamber, separating oily polymer from the other part of the polymer-catalyst slurry by filtration and solvent extraction to revivify the catalyst, distilling the separated oily polymer to obtain a high boiling fraction free of heavy tarry material, utilizing the high boiling fraction and the revivified catalyst to make up finely divided catalyst slurry and mixing the revivified catalyst slurry with the recycled catalyst slurry.

2,279,196

COOKING DEVICE

Henry F. Herman, Rye, N. Y., assignor of one-half to Herbert S. Wetzler, New York, N. Y.

Application October 6, 1939, Serial No. 298,162
8 Claims. (Cl. 219—38)



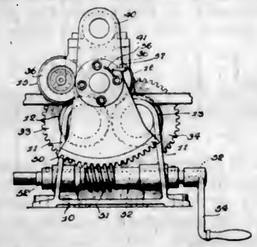
1. In a steam generating device, a container carrying liquid therein, a heating coil of bare electric resistance wire adapted to be connected in circuit with a source of electric energy, and a float supported by the liquid in the container carrying and positioning the heating coil with a peripheral portion of the convolutions thereof quenched by liquid in the container and transforming the quenching liquid into steam.

2,279,197

FORMING MACHINE

George S. Hoell, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa., a corporation of Pennsylvania

Application August 22, 1939, Serial No. 291,297
17 Claims. (Cl. 153—54)



1. In a forming device of the class described the combination of a pair of rollers for engagement with one side of the work, a second pair of rollers adjacent said first pair of rollers for engagement with the other side of the work, a pivotally mounted bracket for supporting one pair of rollers, and means for turning said bracket about its pivot to selectively place one roller of one pair of rollers in cooperating work forming relation with the other pair of rollers.

2,279,198

CATALYTIC CONVERSION OF HYDROCARBONS

Walter F. Huppke, Lomita, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

No Drawing. Application January 18, 1938, Serial No. 185,546
20 Claims. (Cl. 196—50)

7. A process comprising subjecting hydrocarbon gases and vapors to a conversion temperature in the presence of a catalyst produced by precipitating a difficultly reducible metal hydroxide gel and while still wet depositing zinc oxide thereon, and partially dehydrating the gel.

2,279,199

CATALYTIC CONVERSION OF HYDROCARBONS

Walter F. Huppke, Lomita, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

No Drawing. Original application January 8, 1937, Serial No. 119,629. Divided and this application February 21, 1939, Serial No. 257,665
17 Claims. (Cl. 260—683)

1. A method for the dehydrogenation of hydrocarbons which comprises subjecting a hydrocarbon to an elevated temperature in the presence of a catalyst comprising an oxide from the class consisting of uranium and vanadium oxides, such oxide being distributed upon an oxide of the class consisting of aluminum, zirconium and thorium hydrous oxide gels, the catalyst containing a zinc oxide activator.

2,279,200

FERTILIZER MANUFACTURE

Frank G. Keenen, Swarthmore, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 17, 1940, Serial No. 319,464
11 Claims. (Cl. 71—29)

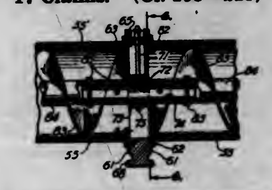
1. A process of ammoniating acidic fertilizer materials which comprises incorporating hexamethylene tetramine with acidic fertilizer materials in the presence of urea.

2,279,201

COMBINATION COUPLER AND HANGER STRUCTURE FOR SCREW CONVEYERS

Joseph L. Kozak, Munster, Ind., and Clarence F. Abraham, Chicago, Ill., assignors to Screw Conveyor Corporation, Hammond, Ind., a corporation of Illinois

Application September 25, 1940, Serial No. 358,228
17 Claims. (Cl. 198—213)



1. Screw conveyer apparatus comprising multiple trough sections, a screw propelling section for each trough section, and separate and independent assembly units providing a coupling structure for adjoining ends of the trough sections and also bearing means for adjoining ends of the screw propelling sections, said units being removable and replaceable by direct transverse movement into and out of the space between adjoining ends of the trough sections and the length of each trough section and coupling structure matching the length of the corresponding screw propelling section and its bearing means.

2,279,202

CHEESE COMPOSITION

Albert Musher, New York, N. Y., assignor to Musher Corporation, New York, N. Y., a corporation of New Jersey

No Drawing. Application November 27, 1939, Serial No. 306,344
8 Claims. (Cl. 99—117)

1. A cheese composition comprising grated cheese and a fat protective, said protective being coated on substantially all of the individual grated cheese particles, and said grated cheese having a moisture content normal to grated cheese of commerce.

2,279,203

ICE CREAM MIXTURE

Albert Musher, New York, N. Y., assignor to Musher Corporation, New York, N. Y., a corporation of New Jersey

No Drawing. Application October 12, 1940, Serial No. 360,916
5 Claims. (Cl. 99—137)

1. An ice cream mixture comprising crisp corn flakes coated with a layer of rigidified hardened butter, said butter coated corn flakes being distributed throughout the mass of the frozen ice cream, and said corn flakes being relatively unattached from each other.

2,279,204

PRINTING CYLINDER

John P. E. Neilson, Quincy, Mass., assignor to Meisel Press Manufacturing Company, Boston, Mass., a corporation of Massachusetts

Application December 13, 1940, Serial No. 369,969
9 Claims. (Cl. 101—415.1)

1. A printing cylinder having a gap into which the ends of a flexible member leading from either side thereof may extend, a reel rod rotatably mounted within the gap, the rod being of generally cylindrical form, the wall of the gap having

a corresponding cylindrical surface opposing the rod, the rod having seats at circumferentially spaced points to receive the ends of such a mem-

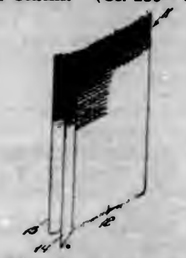


ber and having portions following the seats to provide for pressing the ends against said wall on rotation of the rod.

2,279,205
ICE CREAM
Clinton H. Parsons and Everette C. Scott, Chicago, Ill., assignors to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application March 8, 1940, Serial No. 322,999
16 Claims. (Cl. 99—136)

1. In a method of preparing frozen confections, the steps which comprise coagulating a lacteal fluid, separating the coagulum from the whey, and emulsifying the coagulum in water by the use of a salt composition prepared by fusing a mixture of disodium phosphate, sodium sesquicarbonate and citric acid.

2,279,206
FABRIC FOR GARMENT EDGING
Norman E. Randall, Shannock, R. I., assignor to Columbia Narrow Fabric Company, a voluntary association of Rhode Island
Application March 6, 1941, Serial No. 381,979
1 Claim. (Cl. 139—384)



An elastic edge for a garment comprising a fabric composed of relatively soft and flexible warp rubber and textile yarns and stiffer filling yarns of a synthetic plastic material interlaced to provide a fabric, said filling yarns being parallel and providing a fabric less flexible across the filling so disposed, said warp being freely extendible and flexible across the same about an axis parallel to the filling, and a pair of sewing lips of unstiffened material along one edge of the fabric, and woven integral with the stiffened portion of the fabric.

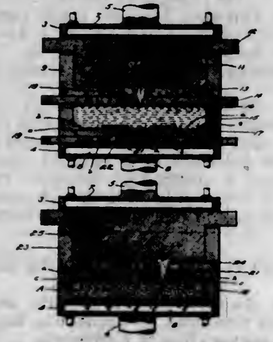
2,279,207
BARREL CONVEYER
Adelbert J. Schenk, Cincinnati, Ohio, assignor to The Alvey-Ferguson Company, Cincinnati, Ohio, a corporation of Ohio
Application April 2, 1940, Serial No. 327,490
3 Claims. (Cl. 198—189)

1. A conveyer chain for conveying barrels and the like, comprising: main links and connecting links pivotally united, a shoe respectively fixed to each main link for the under side of the chain to provide uniformly spaced sliding supports therefor, a crescent shaped flight respectively fixed to each alternate main link for the upper side of the chain, each to provide a pair of spaced points aligned laterally of the chain for partially supporting a barrel, and a second flight respectively



fixed to each alternate main link and intermediate of a pair of crescent shaped flights extending transversely of the chain and having its upper side formed to provide a bearing surface for its full width adapted with an adjacent crescent shaped flight to afford a tri-support for a barrel, the bearing surface of said second flight being slightly concave laterally adapting the barrel to self-centralize itself with the center line of the chain.

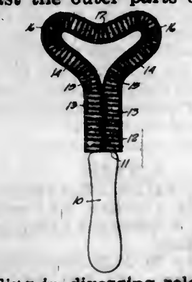
2,279,208
RELIEF MOLDING OF PLASTICS
Frank H. Shaw, South Orange, N. J., assignor to Shaw Insulator Company, Irvington, N. J., a corporation of New Jersey
Application August 10, 1938, Serial No. 224,010
9 Claims. (Cl. 18—30)



2. The method of molding decorated articles from organic plastics which comprises partially molding an article from an organic plastic of selected color by subjecting said plastic to heat and pressure in a die, said die having a design cut therein for molding a design in relief on said article, and molding organic plastic of a different color on said article around said design to form a background for said design, by subjecting said last named plastic to heat and pressure to soften it and to cause it to flow into the die in which said article is confined and flow around said relief design while said article also is subjected to heat and to the pressure applied to said last named plastic and while the area of said design is protected from the last named plastic.

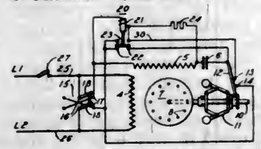
2,279,209
BRUSH
Cloyd L. Snyder, South Bend, Ind.
Application January 31, 1940, Serial No. 316,485
4 Claims. (Cl. 15—160)

1. A brush comprising a handle, an elongated cylindrical brush element having a substantially rigid core whose ends are secured to one end of said handle, said brush element being bent to provide end portions projecting from said handle and a transverse portion between said end portions, at least the outer parts of said end por-



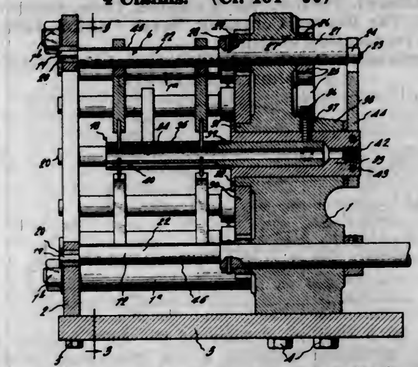
tions extending in diverging relation, said transverse portion being curved inwardly to provide said brush element with a concave outer end merging with said end portions by convex curves.

2,279,210
SELF-STARTING SINGLE-PHASE INDUCTION MOTOR WITH PLUGGING REVERSING CONNECTIONS
Wendell C. Spear, Wapakoneta, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 10, 1940, Serial No. 313,244
8 Claims. (Cl. 172—279)



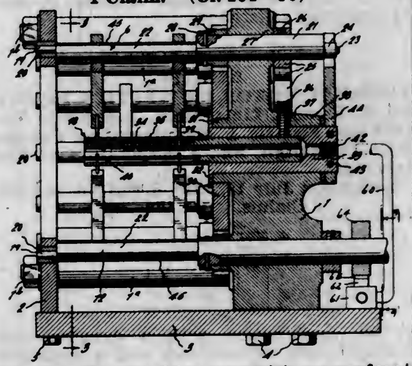
3. In combination, a self-starting single-phase induction-motor having relatively rotating primary and secondary members, the primary member having a main winding-means and a starting winding-means including a motor-winding in substantially quadrature-relation to the main winding-means and a serially connected capacitor for producing a starting-winding current which is always out of phase with the current in the main winding-means, means for establishing starting connections whereby both the main and the starting winding-means are energized from a single single-phase supply-line, start-run switching-means, operable after the motor has started, for changing the connections of the aforesaid starting winding-means from a starting condition to a running condition, and for also changing an auxiliary relaying circuit, reversing-means for reversing the connections of one of said primary-member winding-means relatively to the other primary-member winding-means, a line-voltage-responsive relay operable, whenever it is in its non-actuated position, to substantially establish the starting connections of the aforesaid starting winding-means even when the start-run switching-means is in its running condition, means for initially energizing said relay through said reversing-means and through the auxiliary relaying circuit of said start-run switching-means when the latter is in its starting condition, and separate circuit-means, responsive to the actuated position of said relay, for subsequently maintaining the energization of said relay from the line-voltage as long as at least a predetermined voltage is applied thereto, said relay being operative to return quickly to its non-actuated position when it fails to receive said predetermined voltage, said reversing-means being operative to momentarily cause said relay to fail to receive said predetermined voltage while said reversing-means is being actuated, and said start-run switching-means being operative, in its running condition, to make it impossible for said auxiliary relaying circuit to supply said relay with said predetermined voltage.

2,279,211
PERFORATING MACHINE
Leslie G. Thomas, Tenafly, N. J., assignor to Automatic Winding Company, Inc., East Newark, N. J., a corporation of New Jersey
Application June 14, 1939, Serial No. 278,988
4 Claims. (Cl. 164—90)



1. A machine of the character described, comprising a main driving gear, a plurality of individual gears arranged to be driven by said main gear, a shaft fastened to each of said individual gears, all said shafts being parallel to one another, an eccentric operated by each shaft, a work receiving mandrel shaft centrally disposed with respect to the first-mentioned shafts, and eccentric means linking one of said individual shafts to the mandrel shaft to oscillate the mandrel shaft in synchronism with the oscillation of the first-mentioned eccentrics.

2,279,212
PERFORATING MACHINE
Leslie G. Thomas, Tenafly, N. J., assignor to Automatic Winding Company, Inc., East Newark, N. J., a corporation of New Jersey
Original application June 14, 1939, Serial No. 278,988. Divided and this application November 8, 1940, Serial No. 364,800
1 Claim. (Cl. 164—90)



A perforating machine comprising a perforated

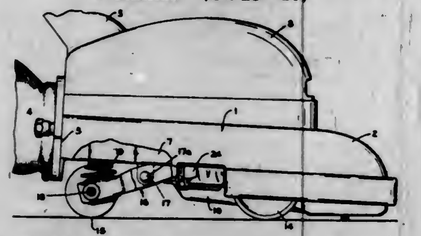
hollow mandrel to receive at its front end an article to be perforated, a punch arranged to be reciprocated substantially radially with respect to said mandrel through said perforations, eccentric means for effecting radial movement of the punch, means to oscillate the mandrel to compensate for the component of the punch movement which is non-radial with respect to the mandrel, and means to connect a source of suction to the rear end of said mandrel to remove accumulated punchings whereby breakage of said punches is avoided.

2,279,213

SUCTION CLEANER

Charles G. Troxler, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application October 19, 1939, Serial No. 300,147
3 Claims. (Cl. 15—16)



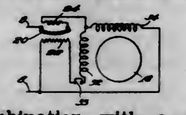
1. In a suction cleaner of the type having a body including a nozzle at its front end, front supporting wheels positioned rearwardly of said nozzle pivotally supporting said body, rear supporting wheels positioned rearwardly of said front wheels and mounted for vertical movement relative to said body, and a handle pivotally connected to said body above said rear wheels; surface-contacting means on said nozzle adapted to contact and slide over a surface covering undergoing cleaning, resilient means to urge said rear wheels downwardly and to tilt said body about the front wheels with a force equal to the normal component of propelling handle force received thereby with said surface-contacting means sliding over a surface covering with a predetermined optimum frictional resistance, whereby upon said frictional resistance being increased above said optimum and the propelling handle force being thereby increased the said spring receives more than said normal component of force and the cleaner body is tilted in opposition thereto about said front wheels to effect a raising of said nozzle in order to reduce said frictional resistance.

2,279,214

THERMAL MOTOR PROTECTIVE DEVICE

Cyril G. Veinott, Lima, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 13, 1939, Serial No. 284,160
6 Claims. (Cl. 172—278)



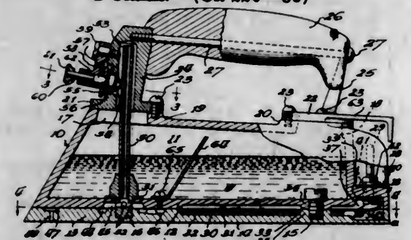
1. The combination with a dynamo-electric machine having an auxiliary and a main winding and thermostatic means thermally associated with and adapted to deenergize the windings under predetermined conditions of the machine, of a non-inductively wound heat storage coil of appreciable heat-retaining capacity energized at the same time as at least one of the windings and thereby adapted to generate and store heat, said coil being positioned in direct thermal communication with the thermostatic means for preventing the reenergization of said windings thereby for a predetermined appreciable period of time after deenergization thereof.

2,279,215

ELECTRIC STEAM IRON

Holger Theilgaard, Chicago, Ill., assignor to La Salle Mortgage & Discount Company, a corporation of Delaware

Application May 29, 1939, Serial No. 276,310
1 Claim. (Cl. 220—86)



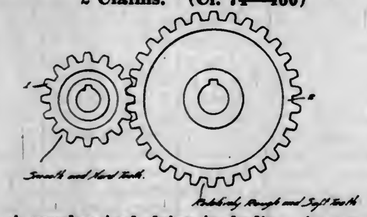
A blow-off mechanism for the steam generating reservoir of a steam sadiron comprising an opening provided in said sadiron and leading to said steam generating reservoir, a plug member seated within said opening and removable to permit the introduction of liquid into said reservoir, a substantially cylindrical housing mounted axially of said opening, a reciprocable member mounted in said housing and having one end thereof engaging said plug member, the other end of said reciprocable member having a grasping portion for the manual manipulation of said reciprocable member, spring means mounted within said housing normally urging said reciprocable member in a direction axially towards said opening to cause said plug member to yieldingly engage against said opening, an arm pivotally mounted on said reservoir and having the housing attached thereto whereby the housing and reciprocable member may be swung to one side of said opening, said plug member being adapted to be moved against the force of said spring means when the pressure within said reservoir reaches a predetermined value.

2,279,216

GEAR AND PINION

Stewart Way, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 4, 1939, Serial No. 302,879
2 Claims. (Cl. 74—460)



1. A mechanical drive including, in combina-

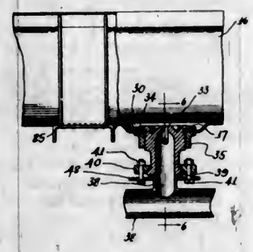
tion, a pinion and a gear arranged in meshing relationship, said pinion having polished teeth which are substantially smoother than those of said gear and having a surface having an average deph which does not exceed 0.00003 inch below a smooth surface tangent to the top peaks of the irregularities, said pinion being also harder than said gear, the difference in hardness being at least 150 Vickers Pyramid Units, thereby effecting burnishing of said gear during normal meshing relationship.

2,279,217

CONTINUOUS STRIP PICKLING AND CLEANING DEVICE

Frank J. Wood, Riverside, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application May 25, 1939, Serial No. 275,705
3 Claims. (Cl. 266—7)



1. In a continuous strip pickling and cleaning device, a pickling trough having a relatively flat bottom surface along which a strip of metal is adapted to pass, said bottom surface having a depressed portion formed therein, and a spraying nozzle mounted in said depressed portion out of the path of travel of the metal through said trough and opening into said pickling trough for spraying the underside of the metal with pickling fluid as it passes therethrough, said nozzle having a depending portion extending through the bottom of said depressed portion, and means engaging said nozzle and the under side of said trough for holding said nozzle in said depressed portion thereof so its top surface is wholly beneath the bottom portion of said trough which defines the upper margin of said depressed portion.

2,279,218

MINERAL OIL COMPOSITION AND IMPROVING AGENT THEREFOR

Darwin E. Badertscher, Robert H. Williams, and Henry G. Berger, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application October 5, 1939, Serial No. 298,052
16 Claims. (Cl. 252—54)

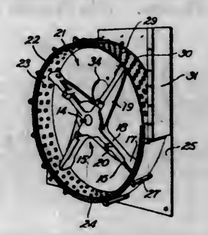
1. An improved mineral oil composition comprising a viscous mineral oil fraction and in admixture therewith a minor proportion of a reaction product obtained by first reacting a phosphorus pentahalide with an aromatic hydroxycarboxylic acid and then reacting the product thus obtained with a compound selected from the group consisting of: ammonia, organic compounds containing replaceable hydrogen and compounds containing reactive metal atoms.

2,279,219

MATERIAL GRINDING MACHINE

Abner D. Baker and Louis R. Baker, Swanton, Ohio

Application July 27, 1939, Serial No. 286,873
1 Claim. (Cl. 83—11)



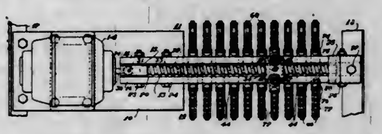
An impact mill comprising means providing a working chamber, said means including an annular imperforate surface having a radial discharge opening, a discharge chute adjacent said discharge opening, a replaceable liner for said surface having a multiplicity of relatively small rectangular holes formed therein, said liner being of arcuate shape and in one piece for end-for-end reversal when worn, a rotor in said chamber having a plurality of rigid spokes radiating from a hub in opposed pairs and having impact surfaces formed in the ends of said spokes, integral lug members formed on said spokes and projecting laterally therefrom, the lugs on each opposed pair of spokes being spaced equidistant from said hub and at a different distance from said hub than those on the adjacent opposed pair of spokes, means to drive said rotor, and means to feed material axially to said working chamber.

2,279,220

FLOOR SELECTOR FOR ELEVATORS

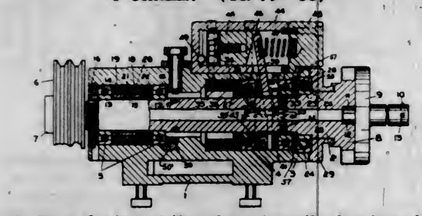
Donald H. Baum, Ridgewood, N. J., assignor to Westinghouse Electric Elevator Company, Jersey City, N. J., a corporation of Illinois

Application January 26, 1939, Serial No. 252,924
3 Claims. (Cl. 200—1)



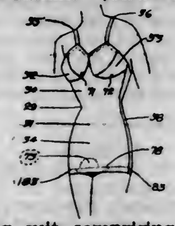
2. An elevator car floor selector comprising a frame, a screw shaft rotatably mounted on the frame, means for rotating the screw shaft, two rows of switch-operating arms mounted on the frame in parallel relation to the shaft, each switch operating arm in each row being independent of the other arms in that row and being disposed opposite to and facing a similar arm in the other row, a switch mounted adjacent to each switch-operating arm in position to be operated by movement of that arm, a plurality of associate switches mounted on each of said first-mentioned switches in position to be operated by operation of that switch, a traveling nut disposed on the shaft, and a cross arm on the nut disposed to extend between and operate simultaneously any two oppositely disposed switch operating arms when rotation of the shaft moves the nut thereto.

2,279,221
OFF-SETTING ARRANGEMENT FOR BORING TOOLS AND THE LIKE
Harold L. Blood, Worcester, Mass., assignor to The Heald Machine Company, Worcester, Mass., a corporation of Massachusetts
Application June 23, 1939, Serial No. 280,760
9 Claims. (Cl. 77—58)



1. In a device of the class described, a housing, a spindle journalled therein, ball bearings for said spindle, each bearing having an inner and an outer race, resilient means for applying a preload to said bearings, means including a lever for removing the preload to free the spindle from the holding action of the bearings, and means for shifting the spindle lateraly within the housing.

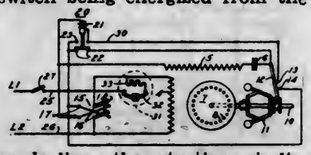
2,279,222
BATHING SUIT
Virginia Bowman, New York, N. Y.
Application January 28, 1939, Serial No. 253,367
2 Claims. (Cl. 2—67)



1. A bathing suit comprising: a rear panel the upper portion of which forms the back of the suit, and the lower portion of which forms the rear part of the crotch of the suit; a front panel the upper portion of which forms the front of the suit and the lower portion of which covers the lower front portion of the human figure when worn; said front panel having an inturned lower edge folded upon itself and secured thereto in an upwardly folded position, the upper portion of said edge terminating in a downwardly extending first convex tab; a front crotch element connected at the lower central portion thereof to the lower central portion of said rear panel, said crotch element having an upper edge including a second convex tab, said first and second tabs being interconnected at the edges thereof forming a pantie gusset positioned rearwardly of the lower portion of the front panel.

2,279,223
PLUG-REVERSING CAPACITOR-START INDUCTION-RUN MOTOR
Lloyd W. Buchanan, Lima, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 5, 1940, Serial No. 312,525
8 Claims. (Cl. 172—279)

3. In combination, a self-starting single-phase induction-motor having relatively rotating primary and secondary members, the primary member having a main-winding and a substantially quadrature-related starting-winding, a capacitor connected in series-circuit relation to the starting-winding for producing current out of phase with the current in the main-winding, means for establishing starting connections whereby both the main-winding and the starting-winding are energized in parallel from a single single-phase supply-line, start-run switching-means, operable after the motor has started, for changing the connections of the starting-winding and for also changing an auxiliary relaying circuit, a three-position reversing-switch having input-terminals, output-terminals and operating means having a first position in which the output-terminals are connected to the input-terminals in a first order of connection, a second position in which the electrical connection between the input and output terminals is broken, and a third position in which the output-terminals are connected to the input-terminals in a reversed order of connection, the input-terminals of the reversing-switch being energized from the single-



phase supply-line, the starting-winding being energized from the output-terminals of the reversing-switch, a line-voltage-responsive relay operable, in its non-actuated position, to substantially establish the starting connections of the starting-winding even when the start-run switching-means is in its running condition, means for initially energizing said relay from the output-terminals of the reversing-switch through the auxiliary relaying circuit of said start-run switching-means when the latter is in its starting condition, separate circuit-means for subsequently maintaining the energization of said relay from the output-terminals of the reversing-switch as long as at least a predetermined voltage is applied thereto, an additional impedance-means, and circuit-means for permanently connecting said relay in series with said impedance-means and across the terminals of one of the two parts of the circuit comprising the starting-winding and the capacitor, said relay returning to its non-actuated position whenever said reversing-switch is actuated from its first position to its third position, or vice versa.

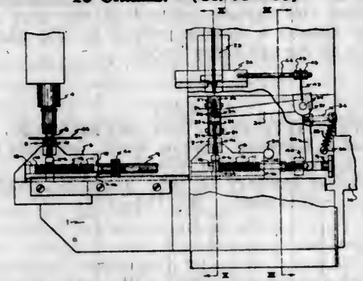
2,279,224
WITHDRAWN

2,279,225
VIBRATORY SCREEN
Alex T. Cecil, Columbus, Ohio, assignor to The Traylor Vibrator Company, a corporation of Colorado
Application December 28, 1938, Serial No. 248,054
7 Claims. (Cl. 209—382)



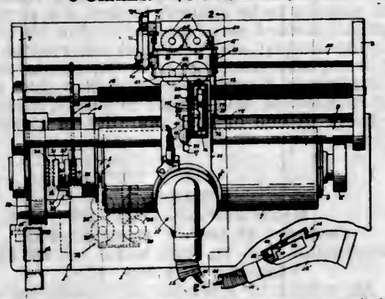
3. In vibratory mechanism, the combination with a frame, of a screen cloth, means for supporting said screen cloth on said frame, motor means connected to said frame to vibrate the same, a rigid member resting on said supporting means with its ends unattached thereto to enable said rigid member from end to end to vibrate freely up and down relatively to said supporting means, and a rubber buffer with its ends free from said supporting means but mounted between said rigid member and said screen cloth.

2,279,226
MECHANICAL LOADER FOR RIVETING MACHINES
Donald C. Draper, Jackson, Mich., assignor to Tomkins-Johnson Company, Jackson, Mich., a corporation of Michigan
Application October 24, 1938, Serial No. 236,657
15 Claims. (Cl. 78—49)



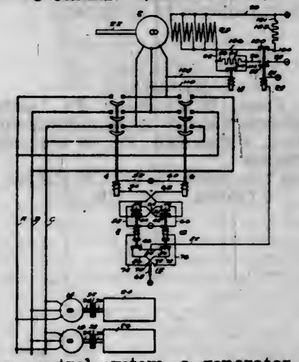
1. A machine of the character described, comprising a set, means to operate said set, a movable anvil, means to move said anvil into and out of cooperating relation with said set, rivet holding jaws spaced to one side of said set, means to feed a rivet into said jaws, and means to transfer a rivet from said jaws to said anvil when said anvil is out of cooperating relation with said set.

2,279,227
PHONOGRAPH
Orville M. Dunning, Glen Ridge, and Louis Z. La Forest, Orange, N. J., assignors to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application September 3, 1938, Serial No. 228,272
6 Claims. (Cl. 274—17)



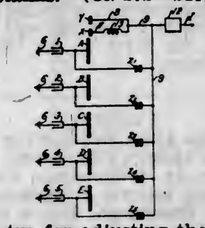
1. In a phonograph having record rotating means: in combination, means for controlling said record-rotating means; a sound translating device adjustable from an inoperative condition into respective operative conditions for recording and reproducing; a manually controllable selector mechanism for said translating device having at least recording and reproducing settings; means, responsive to the means controlling said record-rotating means, for effecting adjustment of said translating device between inoperative condition and the operative condition corresponding to the setting of said selector mechanism; and means for locking said selector mechanism against movement from one setting to another while said record-rotating means is in operation.

2,279,228
CONTROL SYSTEM
Robert D. Evans and Charles F. Wagner, Swissvale, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 5, 1940, Serial No. 312,510
8 Claims. (Cl. 172—237)



1. In a control system, a generator, a motor which is energized by the generator, means for reducing the field energization of the generator, means for thereafter substantially simultaneously reversing the energization of the motor and applying a greater-than-normal energization to the field winding of the generator until the generator output potential reaches a predetermined value, and means responsive to the generator output potential for providing normal energization of the generator field winding.

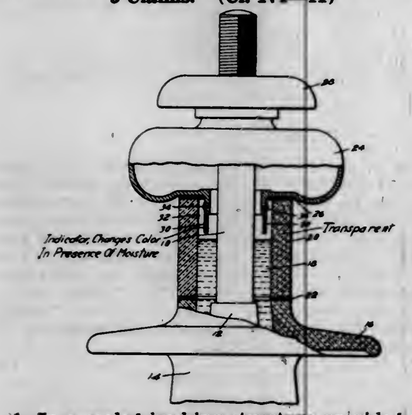
2,279,229
CONTROL APPARATUS
Robert D. Evans, Swissvale, and Jesse E. Hobson, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 14, 1941, Serial No. 393,470
6 Claims. (Cl. 172—246)



1. In apparatus for adjusting the capacitance connected in shunt to an electrical power circuit, in combination, a power circuit conductor, a plurality of capacitor units, switching means for varying the number of said capacitor units connected to said conductor comprising a plurality of stationary switch contact segments mounted in spaced relation and each connected to one of

the capacitor units, a contactor associated with each capacitor unit for effecting communication between the capacitor unit and the power circuit conductor, a pair of spaced movable contact figures cooperating with said contact segments and individually connected to said circuit conductor, a reactor connected between one of said contact fingers and the circuit conductors, and mechanism for controlling the connection of said capacitor units to said circuit conductor operable in three steps in a switching operation for first connecting a capacitor unit to the power circuit conductor through the reactor and its associated contact finger, then through the other of said pair of contact fingers, and then through the contact associated with said capacitor unit, said pair of fingers being operable to repeat this cycle of operation for connecting each of the capacitor units to the conductor in sequence.

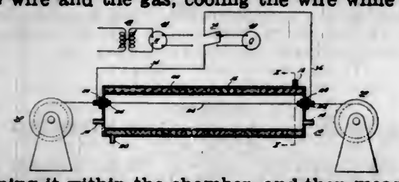
2,279,230
BUSHING
Leslie E. Frost, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 13, 1939, Serial No. 309,003
5 Claims. (Cl. 174—11)



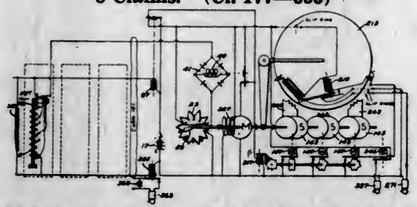
1. In a sealed bushing structure provided with a casing and a liquid dielectric in the casing, the casing being of a character that the level of the liquid dielectric may be observed therethrough, in combination, a carrier disposed in the casing adjacent the level of the dielectric, and a material which is stable in the presence of the liquid dielectric but responsive to moisture conditions for its color carried by the carrier and also normally visible above the level of the liquid dielectric through the casing.

2,279,231
METHOD AND APPARATUS FOR DETERMINING THE CARBON PRESSURE OF GASES
John R. Gier, Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 15, 1939, Serial No. 295,058
5 Claims. (Cl. 23—232)

1. The method of determining the carbon pressure of gases comprising, in combination, the steps of admitting the gas to be tested into a chamber containing a metallic wire having a diameter of about .007 inch, the wire having a predetermined carbon content and electrical resistance, heating the wire to a predetermined temperature while exposed to the gas, maintaining the wire at that temperature while exposed to the gas for a period of time sufficient to establish an equilibrium carbon content between the wire and the gas, cooling the wire while retaining it within the chamber, and then measuring the electrical resistance of the cooled wire while it is retained in the chamber after equilibrium of the carbon content is established to determine the carbon content of the wire and thereby obtain a determination of the carbon pressure of the gas being tested.



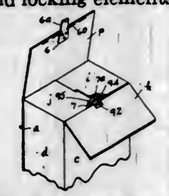
2,279,232
SELECTIVE CONTROL APPARATUS
Harold J. Graham, Boston, Mass., assignor to Louis Letterman, Winthrop, Mass.
Application January 23, 1939, Serial No. 252,262
8 Claims. (Cl. 177—353)



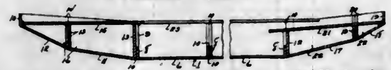
5. In a signaling system, a plurality of potentiometer devices at different stations responsive to conditions thereat to be signaled, a central station, conductors common to all of said plurality of potentiometer devices and the central station, means at each potentiometer device actuated by the condition to be signaled for successively contacting selected points of the potentiometer to a certain one of said conductors, an indicating code signal device at the central station comprising a plurality of rotary members each adapted to be stopped in any of a plurality of predetermined positions for setting up different code indicia; and means at the central station responsive respectively to the points of the potentiometer successively contacted for stopping rotation of said rotary members, each respectively in one of said plurality of predetermined positions.

2,279,233
KNOCKDOWN CARTON
Frederick H. Groves, Dormont, Pa.
Application July 11, 1939, Serial No. 283,802
2 Claims. (Cl. 229—47)

1. An article of manufacture consisting of a flat web of paperboard cut and creased for the erection of a carton and carrying male and female locking elements arranged to admit of the compact stacking of a plurality of webs for shipment or storage, said web including four carton side-wall-forming portions extending side by side in succession and severally provided at opposite ends with flaps which when the web is erected provide the end walls of the carton, the flap at one end of one of said side-wall-forming portions carrying said male locking element, said male locking element being secured upon the surface of the flap that in the erected carton is the inner surface of the flap, said female locking element secured to the side-wall-forming portion which is second (in the succession of such portions) from the side-wall-forming portion whose flap carries said male locking element, said female locking element being secured upon that surface of the particular side-wall-forming portion which in the erected carton is the inner surface, both of said locking elements extending substantially in the plane of said web and arranged on opposite sides of the medial crease-line between said four carton side-wall-forming portions of the web, the male locking element adapted to be readily bent to upstanding position on the surface and within the edge of said flap to which it is secured, with the effect that (when said web is erected into a carton) said male and female elements, severally arranged on the inner surfaces of a flap and a side-wall-forming portion of the erected carton, may enter carton-locking engagement, with both male and female locking elements enclosed within the carton.

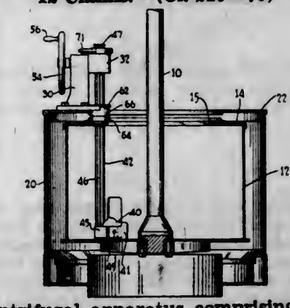


2,279,234
METALLIC BOAT
Edward Heckmann, Columbia, Mo.
Application June 14, 1939, Serial No. 279,212
1 Claim. (Cl. 9—6)



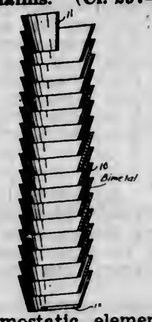
In a metal boat comprising a hull including a plurality of sheet metal elongated rectangular intermediate sections, each provided with a bottom wall and upright end walls, upturned relatively narrow side flanges formed on and extending along the length of the bottom wall, inwardly directed flanges formed on the ends of the upright walls and having their lower ends meeting the ends of the upturned flanges for engagement therewith throughout the width of the flanges, said sections being arranged in side by side engagement with the abutting flanges welded together, sheet metal elongated end sections at both the bow and stern of the boat, each end section provided with a bottom wall and upright side and end walls, the innermost side walls of the innermost end sections abutting and welded to the flanges of the outermost intermediate sections and the intermediate side walls of companion end sections abutting and welded to each other for the end walls of all the sections to provide the sides of the boat and the outermost side walls of the end sections the ends of the boat, the bottom walls of the end sections being disposed at an upward inclination toward their respective ends of the boat, metallic deck plates mounted on and welded to certain walls of the end sections to provide airtight compartments, metallic gunwale strips welded to the sides of the boat and extending inwardly therefrom, and the flanges and walls having beveled edges providing seats for receiving the welding material.

2,279,235
DISCHARGER FOR CENTRIFUGAL MACHINES
Joseph Hertrich, Hamilton, Ohio, assignor to The Western States Machine Company, New York, N. Y., a corporation of Utah
Application November 2, 1938, Serial No. 238,390
12 Claims. (Cl. 210—70)



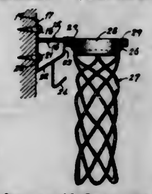
9. Centrifugal apparatus comprising, in combination, a suspended gyratory spindle and basket assembly, a discharger mechanism including a discharger shaft having a discharger shoe thereon, means mounting said shaft for axial and turning movement on a fixed vertical axis whereby to move said shoe into and to discharge the contents of the basket while said assembly is revolved, and a stop member positioned and maintained at a fixed location during a discharging operation whereat said member engages the revolving assembly and opposes the resultant of reactive forces on the assembly that arise from the plowing action of the shoe and so prevents swinging movement of the revolving basket wall against the tip of the shoe in response to such forces, said member engaging said assembly only within a limited angular region disposed angularly away from a diametrical vertical plane passing through said tip and the axis of said spindle.

2,279,236
THERMOSTATIC ELEMENT
Ernest A. Hoopes, Des Moines, Iowa, assignor, by direct and mesne assignments, of three-eighths to Arthur W. Erskine, Cedar Rapids, and one-eighth to Frank D. Clark, Des Moines, Iowa
Original application September 14, 1936, Serial No. 100,667. Divided and this application October 31, 1938, Serial No. 237,959
2 Claims. (Cl. 297—16)



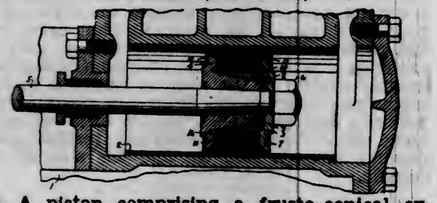
1. In a thermostatic element, a bi-metallic thermal-sensitive ribbon, helically wound in successive spaced apart over-lapping spiral winds, with each spiral wind having substantially the same diameter as the diameters of the other spiral winds.

2,279,237
ARTICLE HOLDER
Vivien Kellems, Westport, Conn., and Joseph Di Palma, Brooklyn, N. Y., assignors to Kellems Products Inc., New York, N. Y., a corporation of New York
Application August 17, 1939, Serial No. 290,542
5 Claims. (Cl. 248—360)



1. A holder for articles comprising an open meshed wire structure composed of a plurality of wire strands interwoven about a common axis and adapted to receive a portion of the article to be held, a base for said wire structure including an annular member disposed within one end of said structure and means encircling said annular member and tightly clamping said end of the structure on said annular member.

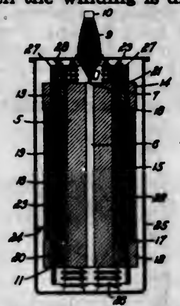
2,279,238
PISTON
Selmer A. Larson, Newgulf, Tex.
Application May 31, 1939, Serial No. 276,686
3 Claims. (Cl. 309—4)



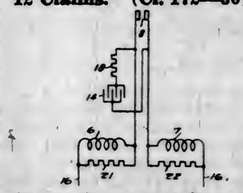
1. A piston comprising a frusto-conical expander forming a piston body, an end plate formed integrally with the large end of the expander, a removable end plate at the other end of the expander, said removable end plate having an inside annular recess, shims in the recess between the removable end plate and the adjacent end of the expander, means for clamping the end plate in assembled relation with the expander, an assembly of wedge shaped slips fitted around the expander between the end plates, a sleeve of resilient material around said assembly between the end plates, the outer margins of the end plates being formed with diverging tapering faces having a greater pitch than the pitch of the external surface of the expander and the ends of the sleeve having portions overlying said faces whose inner sides are shaped to fit closely against said faces.

2,279,239
HIGH TENSION TRANSFORMER
August Meyerhans, Rieden, near Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland, a joint-stock company
Application October 3, 1938, Serial No. 233,114
In Germany October 18, 1937
4 Claims. (Cl. 175—356)

1. In a high potential transformer, an iron core comprising a cylindrical laminated core body, annular iron core sections surrounding said core body adjacent the ends thereof and in radially spaced relation to the walls thereof, a high potential winding on said core body disposed between certain of said core sections and having a high potential terminal and a low potential terminal, electrical connections between said terminals and the respective core sections between which the winding is disposed to establish on each core section a potential differing from that established on other core sections, and a low potential winding surrounding said high potential winding in radially spaced relation thereto and between certain other of said annular core sections, which latter are radially spaced from said core sections connected to said high potential winding.

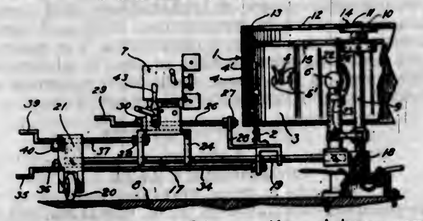


2,279,240
VIBRATING-CONTACT MOTOR
John D. Miner, Jr., Lima, Ohio, and Walter Schaelchlin, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 10, 1940, Serial No. 313,248
12 Claims. (Cl. 172—36)



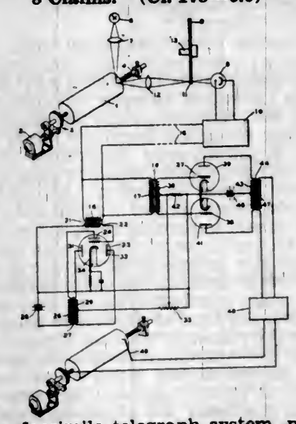
1. An electric motor comprising a field-magnet member and an armature member which are relatively rotatable, one with respect to the other, said field-magnet member comprising a laminated magnetizable core and an electric field-winding circuit for producing poles disposed in operative relation to the armature member, said armature member being of such magnetic characteristics, and so positioned with respect to the field poles, that the torque produced by the action of the field poles on the armature member would be alternately clockwise and counter-clockwise if relative rotation of the armature member were established with respect to the field-magnet member while the electric field-winding circuit was continuously energized, a pair of contacts in the field-winding circuit, means for so opening and closing said contacts, in relation to the relative position of the armature member with respect to the field poles, that the contacts are open at times when the torque would otherwise be negative with respect to a desired direction of rotation, and a contact-shunting circuit connected in shunt to said contacts, said contact-shunting circuit comprising, in effect, a capacitance which is sufficiently large to momentarily transfer the current of the field-winding circuit from the contacts to the shunting circuit when the contacts are opened, and a resistance in series-circuit relation to said capacitance, and included in said contact-shunting circuit, said resistance being sufficiently large to so limit the rate of discharge of the capacitor as to prevent rapid eroding of the contact-points when the contacts are closed.

2,279,241
APPARATUS FOR MAKING ANIMATED MOTION PICTURES
Georges Musaphia, Los Angeles, Calif.
Application September 21, 1938, Serial No. 231,029
8 Claims. (Cl. 88—16)



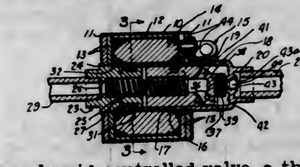
1. Apparatus for making motion pictures comprising a screen, a camera adapted to be focused upon one side of the screen, a figure disposed adjacent the other side of the screen, a source of light arranged to direct rays onto said figure and screen, means for effecting relative movement of the figure and light for creating on the screen an animated image of said figure in focus with said camera, and means of connection between the camera and figure providing for simultaneous movement thereof relative to said screen.

2,279,242
FACSIMILE SIGNAL INVERTER
Frederic L. O'Brien, Rutherford, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application September 2, 1939, Serial No. 293,166
8 Claims. (Cl. 178—6.6)



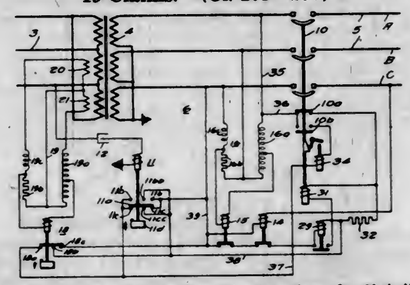
1. In a facsimile telegraph system, means for generating signaling current modulated in amplitude in accordance with the amount of light reflected from elemental areas of the scanned subject matter, a vacuum tube arrangement to amplify a small portion of said signaling current energy without changing the amplitude ratio of components thereof, means for rectifying said amplified current, and a second vacuum tube arrangement for combining in the input circuits thereof said signaling current and said rectified current in opposition to amplify said signaling current with the amplitude ratio of components thereof inverse to the amplitude ratio of components of the generated signaling current.

2,279,243
SOLENOID ACTUATED VALVE
John B. Parsons, Toledo, Ohio
Application July 23, 1940, Serial No. 346,983
3 Claims. (Cl. 137—139)



1. In a solenoid controlled valve, a thin-walled sleeve, a chamfered surface at one end of said sleeve, a plug having a recessed portion in the side thereof, said recessed portion extending circumferentially of said sleeve; a compressed resilient rubber member in said recessed portion engaging the interior wall of said sleeve and adapted to be compressed by said chamfered surface during assembly of the parts, pins projecting through said sleeve and into said plug for preventing relative axial movement between said plug and said sleeve, a shoulder on said sleeve, a shoulder on said plug, an electro-magnet including a coil, metallic washers at opposite ends of said coil, and a metallic ring surrounding said coil, said electro-magnet disposed between said shoulders and surrounding said sleeve, a thin-walled metallic casing surrounding said electro-magnet, and crimped over edges on said casing for holding the parts of said electro-magnet in assembled relation between said shoulders.

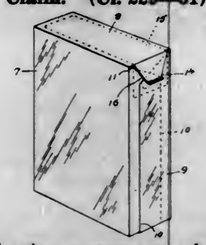
2,279,244
NETWORK SYSTEM OF DISTRIBUTION
John S. Parsons, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 30, 1939, Serial No. 264,932
19 Claims. (Cl. 175—294)



1. In a polyphase electrical network distribution system, a polyphase source of electrical energy, transformer means, a distribution circuit connected for energization from said polyphase source through said transformer means, a circuit interrupter for operatively disconnecting said distribution circuit from said source, a relay responsive to the positive sequence voltage com-

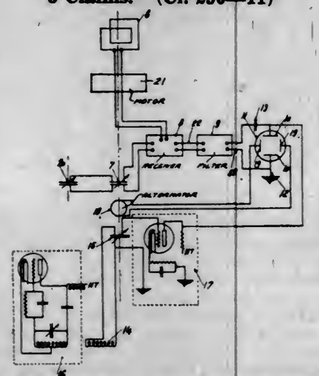
ponent on the source side of said transformer for tripping said circuit interrupter when said component falls below a predetermined value, means for closing said circuit interrupter, and means for rendering said closing means ineffective while said relay is in tripping condition.

2,279,245
PACKAGE
Horace F. Phelps, Montgomery, Ala.
Application March 21, 1939, Serial No. 263,283
1 Claim. (Cl. 229—51)



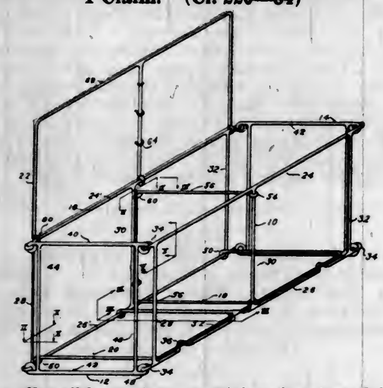
A package having a wrapper which is cut to form an approximately U-shaped tab defining slit, the same wrapper extending continuously about the package by folding the intermediate portion over the top wall and about the front and rear walls and covering the end walls by overlapping end flaps and covering the bottom wall by overlapping folding of the end flaps, the tab defining portion forming an extension of one end of the top wall covering section, the overlapping flaps of the end wall covering sections having folded-in tucks adjacent the ends of the top section, so that the notch from which the tab is struck will be contracted, a severing strip secured to the underside of the top wall wrapper section and the tab to define a severable portion of the said end wall section, and adhesive for detachably connecting the tab portion of the wrapper over the adjacent portion of the end wall covering flaps.

2,279,246
VISUAL DIRECTION-FINDING SYSTEM
Ilia Podliasky, Asnieres, and Alexis Guerbilsky, Paris, France
Application May 31, 1939, Serial No. 276,692
In France June 3, 1938
3 Claims. (Cl. 250—11)



1. An apparatus for guiding a movable body, and especially an airplane or a ship, which comprises, in combination, a plurality of stationary radio transmitters arranged by rows of at least two, said rows being placed one behind another and corresponding each to a different wavelength of transmission, respectively, and a radio receiver carried by said movable body including a directive antenna, means for rotating said antenna about a vertical axis, a screen, means, operative by the means which rotates the antenna and in synchronism with such rotation, for scanning said screen by means of a visible spot moved parallelly to a given direction, in synchronism with the movement of said antenna, means, responsive to radio signals received by said antenna, for marking on the path of said spot the points corresponding to the antenna being directed toward a stationary radio transmitter, means for successively tuning said receiver to the respective rows of transmitters, and means, adapted to work in synchronism with said tuning means, for successively displacing the path of said scanning spot on said screen, in a direction transverse to the above mentioned scanning direction as the tuning varies, respectively.

2,279,247
FOLDABLE CRATE
Claude E. Pope, Oakland, Calif.
Application November 21, 1938, Serial No. 241,558
1 Claim. (Cl. 220—84)

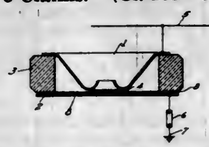


A collapsible crate comprising front and back side frames formed of two uniform section elongated horizontal rods integrated with three vertical rods extending between the ends and midpoints of said elongated rods, the elongated rods having four extension forming eyelets displaced laterally of the plane of the frames and having the axis of the eyelet openings disposed vertically; end frames comprising two short horizontal rods joined by two vertical rods adjacent the ends of said horizontal rods, the vertical rods of said end frames being longer than the vertical rods of the side frames by the double diameter of the rods, extensions on the short horizontal rods forming eyelet members lying in the plane of the end frames, the axes of the eyelets being at right angles to the planes of the end frames; the eyelets of the side and end frames being interlinked; the bottom rod of the front frame being bent rearward to form stops and keepers; a cover pivoted to the upper rod of the rear wall having eyelets secured therearound between the vertical rods and the eyelets of the horizontal rods, said cover being formed of rods in the shape of an M, pivotally connected to the upper horizontal rod of the rear wall, and in closed position, the outer legs of the cover lying in the plane of the upper horizontal rods of the end frame members; a rod formed, U-shaped partition frame pivoted to the intermediate vertical rod of the front side frame; locking hooks mounted on the rear side wall middle vertical rod for receiving the bridge of the partition frame; and an M shaped bottom member pivoted to the horizontal rod of the rear side wall frame.

2,279,248
DETERGENT COMPOSITION
William Beach Pratt, Boston, Mass.; Annette Harris Pratt, administratrix of said William Beach Pratt, deceased
No Drawing. Application July 18, 1938, Serial No. 219,824
9 Claims. (Cl. 252—109)

1. A readily water-soluble dry detergent composition which is stable when dry comprising a water-soluble alkali metal fatty acid soap having occluded therein minute particles of formic acid forming in the aggregate a minor proportion by weight of the composition, such formic acid not substantially exceeding the weight of formic acid resulting from oxidation to acid of a weight of formaldehyde equal to 2% of the weight of the soap and being insufficient in amount to precipitate the soap but sufficient in amount relative to the soap to at least measurably lower the pH value of an aqeous solution of the composition below the pH value of an aqueous solution of such soap alone when both aqueous solutions are of like concentration, said composition being devoid of formaldehyde and of free alkali.

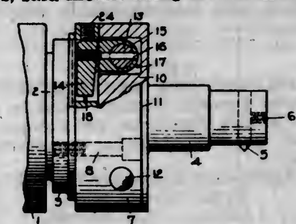
2,279,249
SPARK GAP DEVICE
Walter G. Roman, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 26, 1939, Serial No. 252,928
5 Claims. (Cl. 175—30)



1. A spark gap device comprising spaced electrodes and an insulating spacer member separating the electrodes, one of said electrodes having means thereon for spacing it from the spacer member, said means having a very small area of contact with the spacer member, whereby high voltage gradients occur in the regions adjacent the points of contact.

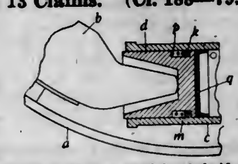
2,279,250
RETRACTING MECHANISM FOR BORING TOOLS
Gherald D. Scott, George A. Whittemore, and Frank A. Glendon, Worcester, Mass., assignors to The Heald Machine Company, Worcester, Mass., a corporation of Massachusetts
Application April 27, 1939, Serial No. 270,386
14 Claims. (Cl. 77—58)

1. In mechanism of the class described, a rotatably mounted spindle member, a tool carrying member carried by said spindle member and mounted for rocking movement relative to said spindle member on an axis substantially at right angles to the axis of the spindle member, and centrifugally actuated means carried by one of said members and connected to the other of said members, said means being moved in response to



rotation of the spindle member for procuring a rocking movement of the carrying member to dispose the tool thereon in boring position.

2,279,251
FRICTION BRAKE
Poul Arne Scott-Iversen, Coventry, England, assignor to The Rover Company, Limited, Coventry, England
Application August 22, 1940, Serial No. 353,743
In Great Britain August 28, 1939
13 Claims. (Cl. 188—79.5)



1. A hydraulically operable friction brake having in combination at least one shoe, a complementary brake member with which the shoe can co-operate, and at least one friction stop which serves to hold the shoe in constant light contact with the complementary brake member when the brake is idle.

2,279,252
TREATING ALUMINUM SURFACES
Charles J. Slunder, Oakmont, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application December 23, 1937, Serial No. 181,311
5 Claims. (Cl. 148—6)

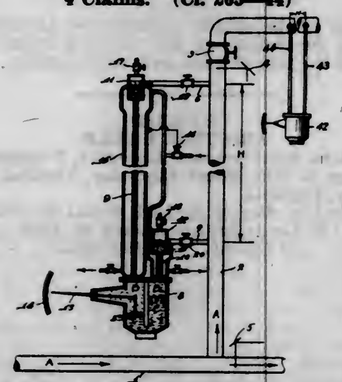
5. A method of treating an aluminum surface comprising forming on said surface an adherent, adsorbent coating consisting substantially of aluminum oxide, and subjecting said oxide-coated surface to the action of a hot aqueous solution of a material selected from the group consisting of the substantially alkali neutralized sulfonated and sulfated fatty alcohols and the substantially organic base neutralized sulfonated and sulfated fatty alcohols.

2,279,253
TREATING ALUMINUM SURFACES
Charles J. Slunder, Oakmont, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application December 23, 1937, Serial No. 181,312
6 Claims. (Cl. 91—68)

3. A method of treating an oxide-coated aluminum surface comprising subjecting said surface to the action of a mixture of an aqueous solution of a material selected from the group consisting of the substantially alkali neutralized

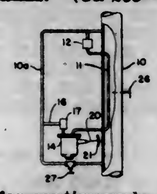
sulfonated and sulfated fatty alcohols and the substantially organic base neutralized sulfonated and sulfated fatty alcohols, and a wax emulsion.

2,279,254
FLUID DENSITY MEASUREMENT
Roy E. Irwin, Toronto, Ontario, Canada, assignor to The British American Oil Company, Ltd., Toronto, Ontario, Canada, a corporation of Canada
Application November 16, 1938, Serial No. 240,599½
4 Claims. (Cl. 265—44)



1. The combination with a vertical conduit for conducting a flowing fluid, the density of which is to be indicated of a U-tube containing a sealing liquid, conduits connecting opposite legs of the U-tube to vertically spaced points in said vertical conduit, a reference fluid in said connecting conduits, indicating means positioned by and with the sealing liquid in one leg of said U-tube, and means for maintaining said reference fluid at a substantially constant temperature.

2,279,255
SPECIFIC GRAVITY MEASURING DEVICE
John F. Luhrs, Cleveland Heights, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Original application November 16, 1938, Serial No. 240,599½. Divided and this application May 6, 1940, Serial No. 333,524
2 Claims. (Cl. 265—44)

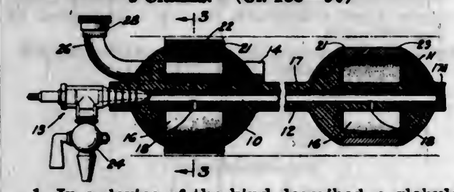


1. Apparatus for continuously determining the specific gravity of a given portion of a vertically flowing liquid stream confined in a conduit comprising means forming a column of reference liquid having the same coefficient of expansion as the liquid stream, means external to the flowing stream adapted to continuously compare the weight per unit area of the portion of the vertical column of the liquid stream with the weight per unit area of an equal length vertical column of the reference liquid having the same coefficient of expansion as the liquid stream, said means including a U-tube, one leg of which is connected to the said liquid stream in said conduit and the other leg thereof is connected to the bottom of the column of reference liquid, and means tending to keep the temperature of the two columns being compared uniform.

2,279,256
ADHESIVE COMPOSITION
Jacob G. Mark, Cambridge, Mass., assignor to Dewey and Almy Chemical Company, North Cambridge, Mass., a corporation of Massachusetts
No Drawing. Application October 27, 1938, Serial No. 237,279
6 Claims. (Cl. 260—744)

1. An adhesive composition sufficiently stable to permit shipment and storage and adapted upon drying to form a water-resistant adhesive film comprising an emulsion the disperse phase of which contains approximately 10 parts of broken-down rubber and 160 parts of a resin selected from the class consisting of rosin, copal, manila and senegal dissolved in a mutual water-immiscible organic solvent for the rubber and resin and the continuous phase of which comprises an alkaline aqueous solution of approximately 6 parts of a second resin of lower acid number than the first mentioned resin and 10 to 30 parts of casein.

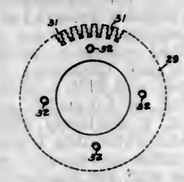
2,279,257
EXPANSIBLE CLOSURE MEANS FOR CONDUITS
Bennett Svirsky, Glendale, Calif., assignor of one-half to Charles W. Sievert
Application February 11, 1941, Serial No. 378,381
6 Claims. (Cl. 138—90)



1. In a device of the kind described, a globular body of elastic material, said body having within it an air chamber encircled by a diaphragm, there being a channel extending around said body, the bottom of said channel being formed by said diaphragm, said body also having a pair of annular shoulders extending around it and facing each other, said shoulders forming the side walls of said channel, means to supply air under pressure to said air chamber to bulge outwardly said diaphragm, and a manually detachable elastic ring occupying said channel and expandible under the urge of pressure from said diaphragm into a fluid tight fit in relation to a conduit having an internal diameter somewhat greater than the normal external diameter of said ring.

2,279,258
TURBINE BLADING
Robert C. Allen, Wauwatosa, and James Wilson, West Allis, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application May 8, 1939, Serial No. 272,414
12 Claims. (Cl. 253—77)

1. The method of assembling turbine blades in a circumferential row of spaced axially extending side entry retaining grooves, the cross-sectional configuration of which conforms with that of the blade roots, with the opposed passage defining surfaces on adjacent blades disposed in nested or in partially nested relationship which comprises fitting the blades to obtain the necessary cooperative relationship between coacting surfaces on adjacent blades, placing the blades to-



gether in their proper cooperative relationship and securing the blades in this position, moving the blades thus secured together into a position such that the root portion of each blade is in substantial axial alinement with a groove in the circumferential groove row, and simultaneously inserting the roots of the individual blades into the axial retaining grooves.

2,279,259
BUTTON
Frederick A. Ballou, Jr., Providence, R. I., assignor to B. A. Ballou & Co., Inc., a corporation of Rhode Island
Application November 13, 1940, Serial No. 365,473
3 Claims. (Cl. 24—105)

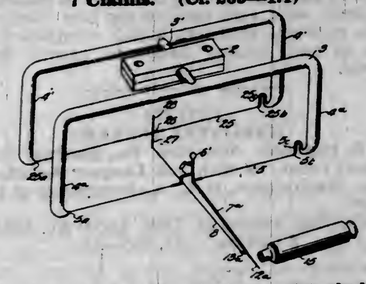


1. In a button, separable units, one unit having a face plate with a threaded post extending rearwardly therefrom, the other unit comprising a pair of relatively rotatable members, one of said members having a fabric-engaging portion to which the button is to be attached, and the other of said members having a threaded socket to engage said threaded post, said members each having friction means at their peripheral margins with the means on one member extending into the path of travel of the means on the other member and engageable with each other to prevent accidental relative rotation between said members.

2,279,260
REFRACTORY AND ABRASIVE MATERIAL AND PROCESS OF MAKING SAME
Raymond C. Benner, Henry N. Baumann, Jr., and George J. Easter, Niagara Falls, N. Y., assignors to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
No Drawing. Application March 21, 1939, Serial No. 263,294
11 Claims. (Cl. 106—58)

1. A cast refractory article consisting principally of trigonal crystals of a solid solution of alumina and chromic oxide, the chromic oxide being at least 8% and the alumina and chromic oxide together being at least 80% of the weight of the article, said article also comprising 2 to 6% FeO, 1 to 6% MgO and 2 to 7% of acid oxides, the acid oxides being present in amount sufficient to materially inhibit the formation of spinel crystals within the article.

2,279,261
TORSION GRAVIMETER
John Marion Crawford and Harold Raymond Prescott, Ponca City, Okla., assignors to Continental Oil Company, Ponca City, Okla., a corporation of Delaware
Application October 25, 1939, Serial No. 301,218
7 Claims. (Cl. 265—1.4)

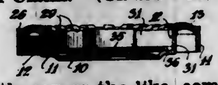


1. A gravity surveying instrument including in combination a supporting means, a first torsion fiber supported by said means, a second torsion fiber supported by said means in spaced relation to said first fiber, a weight arm extending substantially in a horizontal plane fixed to and carried by said first torsion fiber, a labilizer arm extending substantially in a vertical plane fixed to and carried by said second torsion fiber, and a labilizer fiber extending between said labilizer arm and said weight arm.

2,279,262
WEIGHTED CEMENT
Donald B. Edwards, Houston, Tex., assignor to Continental Oil Company, Ponca City, Okla., a corporation of Delaware
No Drawing. Application February 15, 1937, Serial No. 125,812
11 Claims. (Cl. 106—95)

1. A pumpable cement slurry for cementing oil wells having incorporated therein a finely divided, suspended metal.

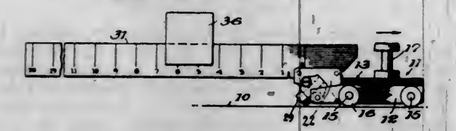
2,279,263
BOTTLE CAP
Carl W. Goodwin, Plainfield, N. J., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del., a corporation of Delaware
Application August 4, 1939, Serial No. 288,383
1 Claim. (Cl. 215—38)



A milk bottle cap or the like, comprising a diaphragm adapted to seat on the inner ledge of the bottle and having a pouring lip housing extending upwardly from the periphery of said diaphragm and adapted to extend over the pouring lip of the bottle, said pouring lip housing having an inner sealing flange having a substantially cylindrical outer surface adapted normally to engage the inner surface of the pouring lip above said ledge around its entire periphery and devoid of grooves which would form a vent without deformation of the flange, alternate spaced peripheral portions of said sealing flange being compacted to provide a hard, dense, hornlike structure highly resistant to flexure, the other alternate peripheral portions of said sealing flange being less highly compacted and being less highly resistant to flexure and suited to deform

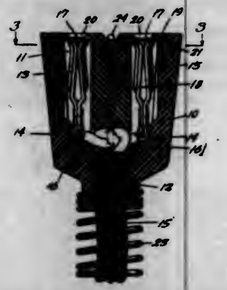
or flex inwardly in response to pressure exerted from within the bottle so as to provide a vent, while said first portions remain in gripping engagement with said pouring lip to hold the cap in place and an inner sealing disc disposed adjacent said diaphragm, said disc having portions engaging said compacted portions of said sealing flange to assist in holding the same in sealing engagement with said pouring lip and having recesses adjacent said less highly compacted portions of said sealing flange to permit flexure thereof.

2,279,264
HARDNESS TESTER
Earl E. Hoffman, Arlington, Va., assignor to National Paint, Varnish and Lacquer Association, Inc., Washington, D. C., a corporation of Delaware
Application August 28, 1940, Serial No. 354,621
8 Claims. (Cl. 265—16)



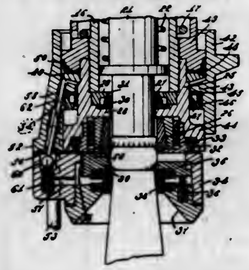
1. A hardness tester for surfaces comprising a carriage provided with at least one axle having wheels fixed thereto to turn together and constructed and arranged to support the carriage upon a surface for movement thereover and to constrain such movement to a fixed path, a scratching member movably mounted on said carriage, a scale beam attached fulcrum-wise to the carriage, extending at right angles to the axle means, and arranged to apply load to the scratching member, and an adjustable rider on the beam.

2,279,265
HEATER PLUG
Carl H. Judisch, New Haven, Conn., assignor to The Whitney Blake Company, New Haven, Conn., a corporation of Connecticut
Application November 2, 1940, Serial No. 363,995
5 Claims. (Cl. 173—332)



5. An electrical appliance plug connector comprising a relatively flat body of insulating material provided with an internal relatively wide recess opening at one end of said body, the medial portion of each of the wider walls of said recess being formed with a raised guide extending longitudinally of said connector from the open end thereof to a point adjacent the inner wall of said recess; a cord-receiving passage extending from the opposite end of said body and communicating with said recess adjacent the inner ends of said guides; a pair of seats formed on said inner wall on opposite sides of the entrance of said passage into said recess; a contact disposed on each seat, said contacts extending to a point adjacent the open end of said body and presenting adjacent said open end a pair of spaced prong-receiving sockets; a twin conductor cord extending into said passage, each conductor thereof being connected to a contact; an insulating member, the opposite edges of said member being slidably received and held by said guides, said member forming a separating wall for holding said contacts against movement transversely of said connector and being provided at its inner end with a cord-engaging face for holding said cord against accidental entry into said recess; a relatively wide plate formed integral with and extending transversely of said member at the outer end thereof, said plate forming a transverse wall for closing the open end of said body; and means for holding said plate against movement relative to said connector, said plate holding said contacts on said seats against movement longitudinally of the connector and having prongpassing openings therein in alignment with said spaced apart prong-receiving sockets.

2,279,266
APPARATUS FOR CROWNING CONTAINERS UNDER VACUUM
James Kantor, Chicago, Ill., assignor to The Liquid Carbonic Corporation, Chicago, Ill., a corporation of Delaware
Application April 3, 1940, Serial No. 327,597
10 Claims. (Cl. 226—82)



1. The combination with a crowning head having a crown throat and crimper means arranged in said throat and a crown support vertically separable relatively to said head to receive a crown, means for sealing the top of said throat, means for sealing a container neck in said support, subatmospheric pressure means for sealingly moving the crown support into engagement with said throat to provide a sealed chamber enclosing the neck of the container, and means for connecting said chamber with a vacuum source, said crimper operating to crimp a crown on the container neck while said chamber is connected with said vacuum source.

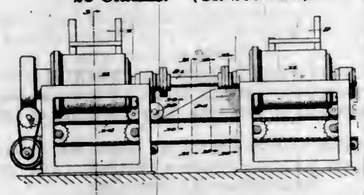
2,279,267
DEENAMELING PROCESS
Harry C. Kremers, Cleveland Heights, Ohio, assignor to The Harshaw Chemical Company, Elyria, Ohio, a corporation of Ohio
No Drawing. Application December 7, 1940, Serial No. 369,137
6 Claims. (Cl. 148—8)

1. A process of removing vitreous enamel from an enameled body comprising contacting such enameled body with gaseous, anhydrous HF.

2,279,268
CALORIZED METAL AND METHOD FOR PRODUCING THE SAME
Lester V. Adams, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application May 16, 1939, Serial No. 273,946
5 Claims. (Cl. 91—70.1)

4. A method for applying a protective coating to ferrous metal which comprises applying to the metal a metallic paint containing granular aluminum, a zinc soap and a solvent for said soap, and heating the coated metal at a temperature sufficiently high to melt the soap and diffuse the coating into the ferrous metal.

2,279,269
ROTARY STUFFING MACHINE
Isidor Tornberg, Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, Plainfield, N. J., a corporation of Virginia
Application February 15, 1940, Serial No. 319,177
23 Claims. (Cl. 270—57)



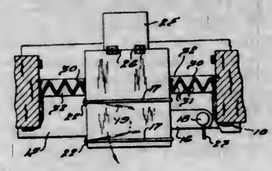
1. In a stuffing machine, provided with a series of hoppers containing stacks of newspapers, a cylinder rotative on its own axis for peeling a section of newspaper from the stack in the first hopper, a rotating cylinder, said rotative cylinder mounted in said rotating cylinder and movable in an arcuate path around the axis of said rotating cylinder, a conveyor, said rotative cylinder retaining and delivering said section to the conveyor, suction means in the path of the conveyor for opening said section as it is carried along by the conveyor to receive an insert of another section of the newspaper, and means for delivering said latter section into the opened section.

2,279,270
NEWSPAPER STUFFING MACHINE
Isidor Tornberg, Plainfield, and Hans C. Jordhoy, North Plainfield, N. J., assignors to Wood Newspaper Machinery Corporation, Plainfield, N. J., a corporation of Virginia
Application April 7, 1941, Serial No. 387,330
16 Claims. (Cl. 270—57)



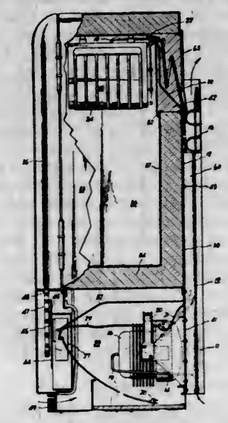
1. Means for handling folded newspaper sections comprising a hopper for holding a stack of sections, means associated with the hopper for positioning the lowermost section, a rotary drum beneath the hopper, a transfer roll carried by said drum, means for giving the roll an orbital movement, means on said roll for peeling the said lowermost section from the stack and coiling it around the roll, means for supporting the remaining sections and means for releasing the section from the roll at a predetermined point in its travel.

2,279,271
WINDOW UNIT SIDE WING CONSTRUCTION
Burdell S. Williams, Dayton, Ohio, assignor to Chrysler Corporation, Detroit, Mich., a corporation of Delaware
Application May 6, 1940, Serial No. 333,516
3 Claims. (Cl. 98—94)



1. The combination with a window ledge air conditioning unit mounted in the position of use on a window ledge beneath the lower sash of a vertically movable window of a side wing blocking the opening at the side of the window between the window ledge and the lower sash of a vertically movable window, said side wing comprising a member having folds therein defining a plurality of vertically extending panel portions, said member being of sufficiently rigid material to resist distortion to an extent sufficient to cause said member to exert pressure against the side of the window opening and the side of the window unit when inserted in the opening at the side of the unit.

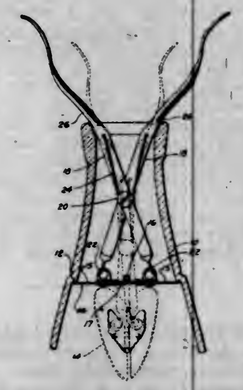
2,279,272
REFRIGERATING APPARATUS
William B. Anderson, West Springfield, and Elliott E. Grover, Springfield, Mass., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 16, 1939, Serial No. 309,554
4 Claims. (Cl. 62—116)



1. In a mechanical refrigerator, the combination of a cabinet comprising an insulated chamber, an evaporator associated therewith for cooling said chamber, a compressor for withdrawing refrigerant vapor from the evaporator and compressing said vapor, and a condenser comprising a sheet of metal and a convoluted metal tube bonded integrally and substantially throughout its length to the surface of said sheet to provide a good metallic heat-conducting path therebetween, said plate being secured to an outer wall

of said cabinet, said compressor discharging the compressed vapor into said tube to liquefy the vapor.

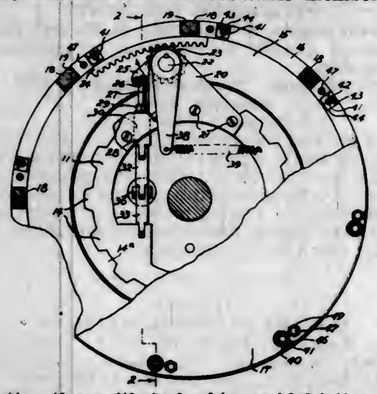
2,279,273
SEPARATOR FOR BOTTLED MILK AND CREAM
Joseph C. Birchall, Reading, Mass., assignor, by direct and mesne assignments, of thirty-seven and one-half per cent to Frederick H. McAdams, Revere; twenty-nine and one-sixth per cent to John B. Neal, Allston; and thirty-three and one-third per cent to Everett E. Kent, Newton, Mass., as trustees
Application April 8, 1939, Serial No. 266,888
2 Claims. (Cl. 210—51.5)



1. A device for separating cream from milk in a bottle having predetermined interior diameters at its mouth and approximately at the plane between the milk and the cream, comprising a flexible disk of the same diameter as that of the interior of the bottle at said plane, two arms above the disk, loosely attached thereto at diametrically opposite points, between the edge of the disk and the center of the disk, and extending upwardly from the disk to a region approximately midway between the two predetermined diameters, then gradually outwardly away from each other to a position on those arms which is external to the bottle when the disk is in separating position, means for connecting said arms and for urging the lower end of one arm away from the lower end of the other arm so that the said outwardly extending portions thereof will bear upon the bottle mouth and hold said disk in separating position, the means for attaching the arms to the disk being so constructed that the disk may turn about an axis through the points of attachment when being inserted into the bottle.

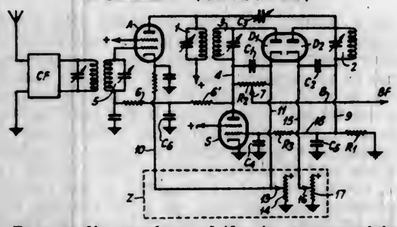
2,279,274
BRAKE
Arvid W. Johnson and Ary A. Benson, Los Angeles, Calif.
Application August 18, 1938, Serial No. 225,624
18 Claims. (Cl. 188—72)

1. A brake comprising a non-rotatable member, a rotatable and axially movable pressure member, a rotary and axially movable friction disk interposed between said members, a rack on said pressure member, a pinion in mesh with said rack, an arm connected to said pinion, and means including a toggle mechanism for actuating said arm and rotating said pressure member to move axially towards the non-rotatable member for



co-action therewith in braking said friction disk against rotation.

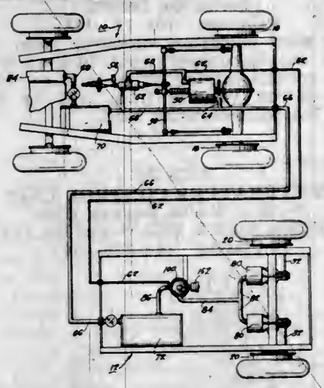
2,279,275
NOISE SUPPRESSION CIRCUIT
Lav Kamenarovic, Milan, Italy, assignor to Radio Corporation of America, a corporation of Delaware
Application October 15, 1938, Serial No. 235,151
In Italy October 29, 1937
3 Claims. (Cl. 250—20)



1. In a radio receiver of the type comprising a signal amplifier followed by a detector having a load impedance across which is developed detected signal voltage, the improvement which comprises a direct current voltage connection from the load impedance to said amplifier for gain control of the latter, an electron discharge device including said load impedance in its space current path and normally developing across the impedance a direct current voltage applied to said detector in detection-suppression sense, a diode rectifier for deriving a direct current voltage from amplified signals, means for applying the derived voltage to said electron discharge device in a sense to prevent development of said suppression voltage, and variable bias means in circuit between the diode anode and cathode for rendering said diode rectifier ineffective in the absence of signals whose amplitude exceed a predetermined magnitude.

2,279,276
POWER BRAKE
Wilbur C. Oliver, II, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application April 15, 1940, Serial No. 329,646
17 Claims. (Cl. 188—3)

1. In a tractor and trailer vehicle combination, brakes for the tractor and trailer, power means for actuating the trailer brakes including an atmosphere suspended power cylinder, power means for actuating the tractor brakes including a vacuum suspended power cylinder, means for

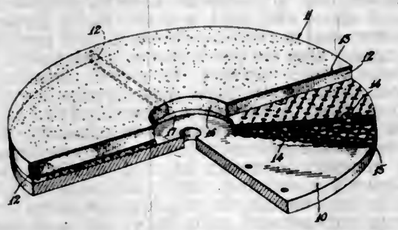


connecting the trailer power means to the tractor power means, a valve interposed in said connecting means, said valve having four separate chambers therein closed off from one another by means of three flexible diaphragms.

2,279,277
REMOVAL OF OXYGEN AND THE LIKE FROM ORGANIC SUBSTANCES
Bernard H. Shoemaker, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Original application February 16, 1939, Serial No. 256,722. Divided and this application June 21, 1941, Serial No. 399,227
14 Claims. (Cl. 196—43)

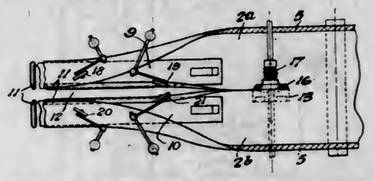
1. The method of removing an oxygen-containing impurity such as oxygen and peroxides from a material containing the same comprising treating said material with an ammonium sulfur compound in which at least one of the hydrogen atoms has been substituted by a hydrocarbon radical, said ammonium sulfur compound being capable of forming an ammonium thiosulfate in which at least one of the hydrogenations has been substituted by a hydrocarbon radical when reacted with said oxygen-containing substance and subsequently separating and removing said ammonium thiosulfate so formed.

2,279,278
GRINDING DISK
Ingle R. Shue, Beloit, Wis., assignor to Gardner Machine Company, South Beloit, Ill., a corporation of Illinois
Application March 17, 1939, Serial No. 262,365
4 Claims. (Cl. 51—209)



1. A grinding disk adapted to be detachably secured to a supporting wheel comprising, in combination, a front layer having a plurality of radially extending slots arranged in two series, one series being in the front part of the front layer and the other series being in the rear part of the front layer with the slots in one series in staggered relation to the slots in the other series, and a rear layer having reenforcing means rigidly supporting the disk as a whole and tying all parts thereof together as a unit.

2,279,279
PLAIN OR SATCHEL BAG-MAKING MACHINE
Gordon William French, Bristol, England, assignor to Beasley, French and Company Limited, Bristol, England
Application August 19, 1939, Serial No. 291,048
In Great Britain September 1, 1938
1 Claim. (Cl. 93—20)



In a machine for making plain, satchel type or block bottom bags, the combination with slitting means adapted to slit the sheet material into longitudinal side by side continuous strips of means to apply to the outer edges of the strips marginal coatings of an adhesive, means to fold relatively narrow inner marignal edges of the strips away from each other, and means to fold relatively wide parts of the strips towards the said relatively narrow marginal folded inner edges so as to obtain separate tube forming seams in close proximity to each other.

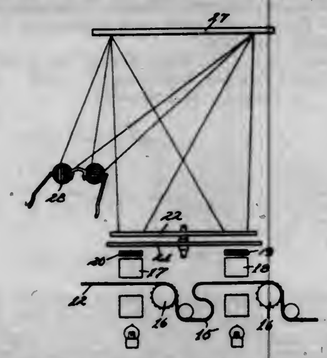
2,279,280
METHOD FOR PREPARING DEHYDRATED PEAS AND BEANS
Albert Musher, New York, N. Y., assignor to Musher Corporation, New York, N. Y., a corporation of New Jersey
No Drawing. Application May 10, 1939, Serial No. 272,758
3 Claims. (Cl. 99—98)

1. The method of preparing a dehydrated food selected from the group consisting of peas and beans, said method comprising cooking the food to soften the cell walls, then drying the food to cause its body structure to become firm, and then disrupting said structure by subjecting the food to steam at an elevated temperature and pressure followed by instantaneously releasing to a lower temperature and pressure.

2,279,281
METHOD OF PHOTOGRAPHING AND PROJECTING STEREOSCOPIC MOTION PICTURES IN NATURAL COLOR WITH THE USE OF COLOR CORRECTED BLACK AND WHITE FILM
Roy E. Schensted, Clarion, Iowa, assignor of one-half to B. J. Palmer, Scott County, Iowa
Application September 25, 1939, Serial No. 296,414
4 Claims. (Cl. 88—16.4)

1. The method of projecting stereoscopic motion pictures to a suitable screen from color corrected black and white film bearing color content stereoscopic images each having only one

color value of a given three primary color combination and in which the right and left stereoscopic images were photographed alternately and the three color values imprinted thereon successively in regular sequence, which consists in providing a suitable projector having a pair of binocular lenses providing a separate light beam for each lens, feeding the right and left images alternately into and out of position in optical alignment with respective lenses in equal time periods of one-half of a frame period at which the projector is operating, simultaneously cutting off the light of both light beams each time an image is advanced, then moving the shutter



to open position during intermittent time periods, wherein two pairs of projections take place during each frame period and wherein one of three adjacent right and left images will be projected twice and one of each of the other two of said three images will be projected once during said frame period, and including in each projected light beam a color filter corresponding to the color content of the image being projected, whereby only two images and their corresponding colors will be projected at any given time to prevent color fringe, and at the same time produce in the eye of the observer the sensation of a complete color image embodying all of said three colors.

2,279,282
ALLOY
Rene Wassermann, Woodmere, N. Y.
No Drawing. Application November 13, 1940, Serial No. 365,483
1 Claim. (Cl. 75—178)

An alloy consisting of the following ingredients in substantially the following proportions: nickel 9% to 16% by weight, copper 42% to 48% by weight, phosphorus .2% to 1% by weight, and zinc forming the balance of the mixture.

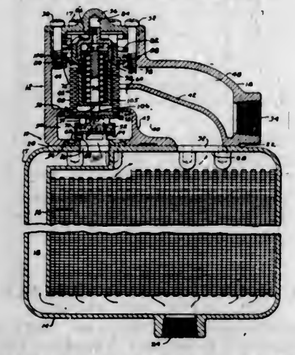
2,279,283
ALLOY
Rene Wassermann, New York, N. Y.
No Drawing. Application March 22, 1941, Serial No. 384,725
1 Cl. (Cl. 75—155)

An alloy consisting of the following ingredients in substantially the following proportions: copper from 15% up to 50% by weight, nickel from at least 10.2% to approximately 18% by weight, silicon in small but effective amounts capable of increasing the hardness of the alloy and ranging from about .1% to 1% by weight, and zinc forming the balance.

2,279,284
SILVER ALLOY
Rene Wassermann, New York, N. Y.
No Drawing. Application March 22, 1941, Serial No. 384,726
3 Claims. (Cl. 75—178)

1. An alloy consisting of silver from .2% to 12% by weight, copper from 10% to 50% by weight, nickel varying from 9% to 12% by weight, silicon varying from .1% to 1% by weight, the balance being zinc.

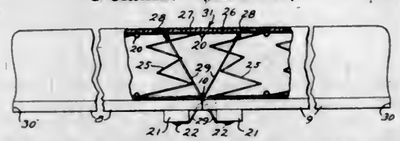
2,279,285
TEMPERATURE CONTROL UNIT
Weldon Worth, Dayton, Ohio
Application April 3, 1939, Serial No. 265,749
12 Claims. (Cl. 236—34)



1. In combination with an oil cooler having a cooling passage and a by-pass passage, and outlets communicating with the respective passages, a valve housing having inlets registering with said outlets and also having a discharge port, a discharge passage within said housing extending from one of said inlets to said discharge port, the other inlet having direct communication with said discharge passage at a point between the first mentioned inlet and said discharge port, a valve operating to vary the restriction of the inlet which communicates with said bypass passage, a thermo-responsive element connected with said valve located adjacent the point of communication between said discharge passage and the first mentioned inlet and having a temperature related expansion stroke to actuate said valve, a stop to positively limit the expansion of said thermo responsive element, and a precompressed spring arranged to yield at a predetermined load and permit said valve to open while said thermo-responsive element is expanded against said stop.

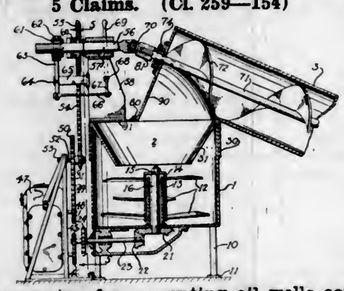
12. In an apparatus for regulating the flow of fluid through a passage in response to variations in the temperature of the fluid, a housing having therein a chamber, an inlet port leading to said chamber and a discharge passage, a seat arranged about said port, a baffle rigidly supported above and in spaced relation to said port and having an edge portion forming a valve seat, an annular valve member arranged about and spaced from said baffle and axially movable with relation thereto, said valve member having axially spaced parts arranged to cooperate with the respective valve seats, and a thermo-responsive element mounted in said chamber and operatively connected with said valve member and having means for moving the latter into closing engagement with either of said valve seats.

2,279,286
DIVAN BED
Joseph D. Bell, San Francisco, Calif.
Application May 31, 1938, Serial No. 210,888
3 Claims. (Cl. 5—47)



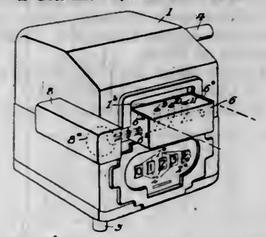
1. A folding mattress of the character described, comprising front and rear frame sections having hinged connection for movement between positions of angularity and of relative alinement, uniform upholstery for the two frame sections extending throughout the lengths thereof and including rows of springs mounted on opposite sides of the hinged connection and an overlying cover secured to the free front and rear edges of the frame sections respectively, spaced reinforcing strips attached to the cover on opposite sides of the vertical plane of the hinged connection and cords connecting the reinforcing strips to the frame sections adjacent the hinged connection and with a pulling effect toward one another for maintaining the cover stretched taut over the two sections during bending operations.

2,279,287
APPARATUS FOR CEMENTING WELLS
John D. Chesnut, San Marino, and Robert M. Cook, Los Angeles, Calif., assignors, by mesne assignments, to International Cementers, Inc., a corporation of Delaware
Application February 4, 1939, Serial No. 254,652
5 Claims. (Cl. 259—154)



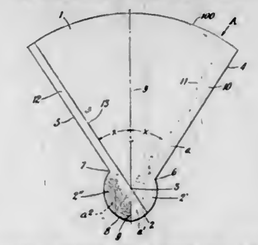
1. Apparatus for cementing oil wells comprising, in combination: a hopper adapted to receive dry cement and an added dry ingredient in predetermined proportions and having a discharge opening in the lower portion thereof; a closed conveyor tube having its inlet end connected to the discharge opening of said hopper, said tube being inclined upwardly and having a discharge opening at its upper end; a spiral conveyor rotatably mounted in said tube in a direction to convey material upwardly therein, the charging end of said conveyor being disposed in the lower portion of said hopper and the conveyor blades having a relatively close clearance with the inner wall of said tube to effect positive displacement of the material therein, and the upward inclination of the tube being so correlated to the pitch of the blades that intimate admixture of the material is effected during its passage through the conveyor tube; a wet mixing chamber having its inlet disposed beneath the discharge opening in said conveyor tube; a mixing element rotatably mounted in said chamber; a conduit for supplying water to said chamber; means interposed in said conduit for controllably varying said water supply; common driving means for said mixing element and said spiral conveyor; a variable speed transmission in the driving connection from said common driving means to said conveyor whereby the delivery capacity of said conveyor can be varied independently of the actuation of said mixing element; and a discharge connection from said mixing chamber to the point of use.

2,279,288
RECORDING APPARATUS
Einar M. Orbeck, West Hartford, Conn., assignor, by mesne assignments, to Veeder-Root Incorporated, Hartford, Conn., a corporation of Connecticut
Application June 12, 1940, Serial No. 340,016
1 Claim. (Cl. 101—407)



In recording apparatus; the combination with printing mechanism; of a platen for supporting a record receiving element; Lucite platen spot indicating means, including a protuberance projecting upwardly from the support, for receiving an opaque record element having preformed openings therethrough adapted to be registered with said spot indicating means; and illuminating means for said Lucite platen spot indicating means; whereby record positioning on said platen may be effected tactually and manually.

2,279,289
CONICAL CONTAINER AND METHOD OF MAKING SAME
John Ernest Page, Sydney, New South Wales, Australia, assignor to Gibson Patent Containers, Ltd., Sydney, New South Wales, Australia, a corporation of New South Wales, Australia
Application February 13, 1939, Serial No. 256,195
In Great Britain February 14, 1938
10 Claims. (Cl. 93—36.1)



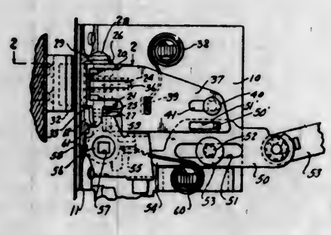
1. A conical container forming blank of sheet material having a body forming portion defined by converging side edges adapted to be arranged in overlapped relationship, and an end portion integral with and wholly unsevered from said body portion, said end portion having parts thereof extending laterally beyond both of the adjacent converging ends of said side edges.

5. The method of forming a conical container

body from a paper or paperboard blank having a body portion defined by converging side edges and an end portion wholly unsevered from said body portion extending laterally beyond both of the adjacent side edges of the body portion, which method includes the steps of applying a strip of adhesive to a side edge of said body portion and a section of said end portion, folding said body portion into generally tubular form, folding said end portion to provide a double-ply skirt section and pressing adhesive applied to a side edge into adhering relationship to the adjacent side edge of the body portion, and thereafter wrapping and adhesively securing said double-ply skirt section around the reduced conical end of said body portion.

2,279,290
AUTOMOBILE DOOR LATCH
Holden W. Rightmyer, Toledo, Ohio, assignor to The American Swiss Company, Toledo, Ohio, a corporation of Ohio
Application September 30, 1939, Serial No. 297,269
7 Claims. (Cl. 292—221)

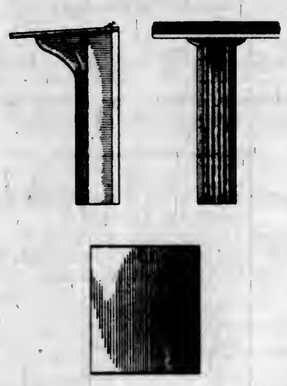
6. In a vehicle door latch, a main plate, a flanged face plate, on said main plate, a spring tensioned bolt nose movable through an aperture in said face plate, ears carried by one of said plates, a pivotal pin for said nose, means to



retain the pin on said ears, and means on one of said plates against which the retaining means of said pin is adapted to impinge to absorb shock imposed upon the pin during slamming of the door.

DESIGNS
APRIL 7, 1942

131,898
DESIGN FOR A SCORE TABLE
Ellery J. Cloutier, Muskegon, Mich., assignor to The Brunswick - Balke - Collender Company, Chicago, Ill., a corporation of Delaware
Application December 20, 1941, Serial No. 104,760
Term of patent 14 years



The ornamental design for a score table, as shown.

131,899
DESIGN FOR A BOWLING ALLEY SERVICE UNIT OR SIMILAR ARTICLE
Ellery J. Cloutier, Muskegon, Mich., assignor to The Brunswick - Balke - Collender Company, Chicago, Ill., a corporation of Delaware
Application December 20, 1941, Serial No. 104,761
Term of patent 14 years



The ornamental design for a bowling alley service unit or similar article, as shown.

131,900
DESIGN FOR AN ALTAR
Lawrence J. Murphy, Brooklyn, N. Y.
Application January 9, 1942, Serial No. 105,083
Term of patent 7 years



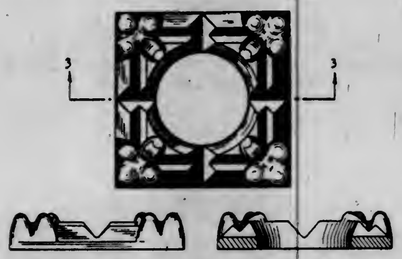
The ornamental design for an altar, as shown.

131,901
DESIGN FOR A TOY SWING
Joseph Howard Phillips, Philadelphia, Pa.
Application November 27, 1941, Serial No. 104,358
Term of patent 14 years



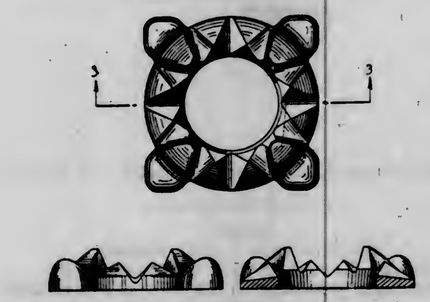
The ornamental design for a toy swing, as shown.

131,902
DESIGN FOR A GEM SETTING OR SIMILAR ARTICLE
Israel Roskin, New York, N. Y.
Application August 14, 1941, Serial No. 102,830
Term of patent 3½ years



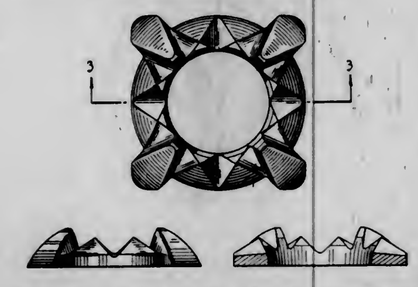
The ornamental design for a gem setting or similar article, substantially as shown.

131,903
DESIGN FOR A GEM SETTING OR SIMILAR ARTICLE
Israel Roskin, New York, N. Y.
Application August 14, 1941, Serial No. 102,831
Term of patent 3½ years



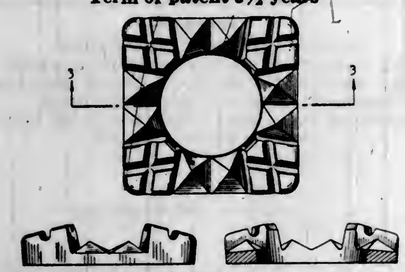
The ornamental design for a gem setting or similar article, substantially as shown.

131,904
DESIGN FOR A GEM SETTING OR SIMILAR ARTICLE
Israel Roskin, New York, N. Y.
Application August 14, 1941, Serial No. 102,832
Term of patent 3½ years



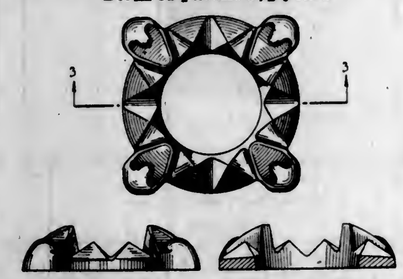
The ornamental design for a gem setting or similar article, substantially as shown.

131,905
DESIGN FOR A GEM SETTING OR SIMILAR ARTICLE
Israel Roskin, New York, N. Y.
Application August 14, 1941, Serial No. 102,833
Term of patent 3½ years



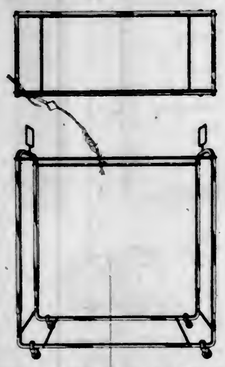
The ornamental design for a gem setting or similar article, substantially as shown.

131,906
DESIGN FOR A GEM SETTING OR SIMILAR ARTICLE
Israel Roskin, New York, N. Y.
Application August 14, 1941, Serial No. 102,834
Term of patent 3½ years



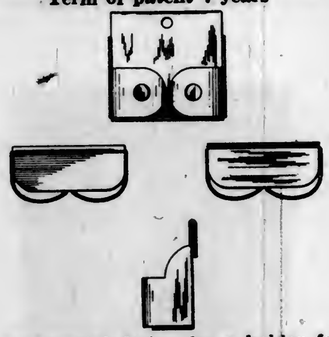
The ornamental design for a gem setting or similar article, substantially as shown.

131,907
DESIGN FOR A DISPLAY RACK
Horace A. Sarvis, Lansing, Mich.
Application September 25, 1940, Serial No. 95,352
Term of patent 14 years



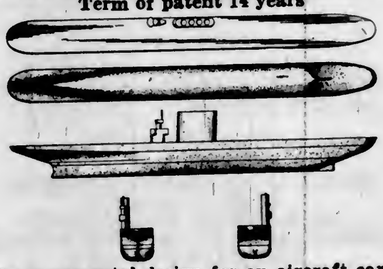
The ornamental design for a display rack, substantially as shown and described.

131,908
DESIGN FOR A HOLDER FOR CONDIMENT SHAKERS OR THE LIKE
D. Bryce Woodruff, Sonora, Calif.
Application December 2, 1941, Serial No. 104,441
Term of patent 7 years



The ornamental design for a holder for condiment shakers or the like, as shown.

131,909
DESIGN FOR AN AIRCRAFT CARRIER
Orlo A. Bartholomew, Northfield, N. J.
Application January 26, 1942, Serial No. 105,446
Term of patent 14 years



The ornamental design for an aircraft carrier, as shown and described.

131,910
DESIGN FOR A LITURGICAL ORPHREY OR SIMILAR ARTICLE
Apollinaris Baumgartner, New York, N. Y.
Application March 12, 1942, Serial No. 106,160
Term of patent 3½ years



The ornamental design for a liturgical orphrey or similar article, as shown.

131,911
DESIGN FOR A LITURGICAL ORPHREY OR SIMILAR ARTICLE
Apollinaris Baumgartner, New York, N. Y.
Application March 12, 1942, Serial No. 106,161
Term of patent 3½ years



The ornamental design for a liturgical orphrey or similar article, as shown.

131,912
DESIGN FOR A LITURGICAL ORPHREY OR SIMILAR ARTICLE
Apollinaris Baumgartner, New York, N. Y.
Application March 12, 1942, Serial No. 106,162
Term of patent 3½ years



The ornamental design for a liturgical orphrey or similar article, as shown.

131,913
DESIGN FOR A LITURGICAL ORPHREY OR SIMILAR ARTICLE
Apollinaris Baumgartner, New York, N. Y.
Application March 12, 1942, Serial No. 106,163
Term of patent 3½ years



The ornamental design for a liturgical orphrey or similar article, as shown.

131,914
DESIGN FOR A TEXTILE FABRIC
Charles Beltramini, New York, N. Y.
Application February 21, 1942, Serial No. 105,930
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown.

131,915
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Milton M. Cann, Brooklyn, N. Y.
Application March 12, 1942, Serial No. 106,164
Term of patent 3½ years



The ornamental design for a textile fabric or similar article, as shown.

131,916
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Milton M. Cann, Brooklyn, N. Y.
Application March 12, 1942, Serial No. 106,165
Term of patent 3½ years



The ornamental design for a textile fabric or similar article, as shown and described.

131,917
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Milton M. Cann, Brooklyn, N. Y.
Application March 12, 1942, Serial No. 106,166
Term of patent 3½ years



The ornamental design for a textile fabric or similar article, as shown and described.

131,918
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Milton M. Cann, Brooklyn, N. Y.
Application March 12, 1942, Serial No. 106,168
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown and described.

131,919
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Milton M. Cann, Brooklyn, N. Y.
Application March 12, 1942, Serial No. 106,169
Term of patent 3½ years



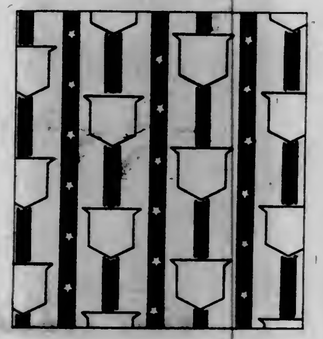
The ornamental design for a textile fabric or similar article as shown and described.

131,920
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Milton M. Cann, Brooklyn, N. Y.
Application March 12, 1942, Serial No. 106,170
Term of patent 3½ years



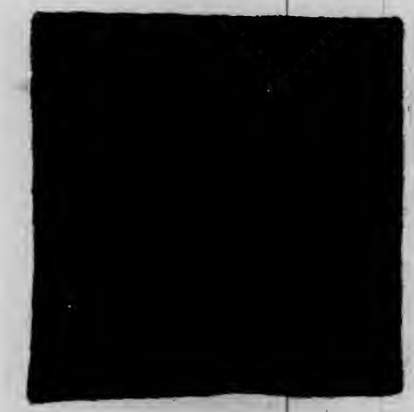
The ornamental design for a textile fabric or similar article as shown and described.

131,921
DESIGN FOR A WRAPPING PAPER OR SIMILAR ARTICLE
Ruth Junge, St. Louis, Mo., assignor to Orchard Paper Company, St. Louis, Mo., a corporation of Missouri
Application February 16, 1942, Serial No. 105,833
Term of patent 7 years



The ornamental design for a wrapping paper or similar article, as shown.

131,922
DESIGN FOR A TABLE SCARF OR SIMILAR ARTICLE
Stanley J. Oppenheim, New York, N. Y.
Application March 6, 1942, Serial No. 106,107
Term of patent 3½ years



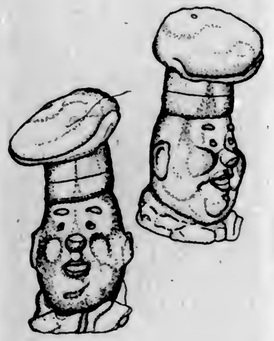
The ornamental design for a table scarf or similar article, substantially as shown.

131,923
DESIGN FOR A TABLE SCARF OR SIMILAR ARTICLE
Stanley J. Oppenheim, New York, N. Y.
Application March 6, 1942, Serial No. 106,108
Term of patent 3½ years



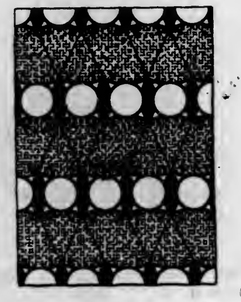
The ornamental design for a table scarf or similar article, substantially as shown.

131,924
DESIGN FOR A CONDIMENT SHAKER OR THE LIKE
Jack G. Williams, Detroit, Mich., assignor to Brooke, Smith, French & Dorrance, Inc., Detroit, Mich., a corporation of Michigan
Application April 14, 1941, Serial No. 100,367
Term of patent 7 years



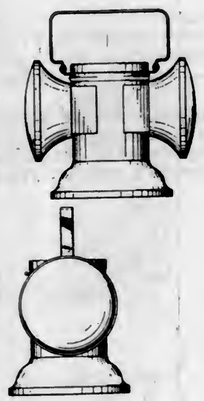
The ornamental design for a condiment shaker or the like, as shown.

131,925
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Evan Thomas Tishock, Cleveland, Ohio
Application January 26, 1942, Serial No. 105,447
Term of patent 7 years



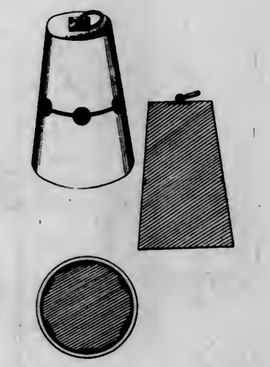
The ornamental design for a textile fabric or similar article, as shown.

131,926
DESIGN FOR A LANTERN
Michael J. Freemark, Breckenridge, Minn.
Application February 9, 1942, Serial No. 105,726
Term of patent 7 years



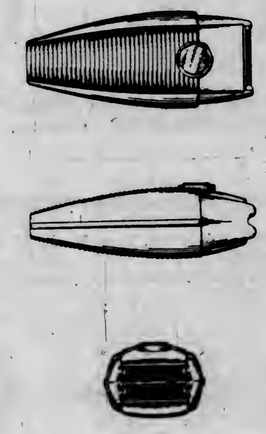
The ornamental design for a lantern, as shown.

131,927
DESIGN FOR A PORTABLE REFLECTOR SIGNAL
Allan C. Hubbell, Long Beach, Calif.
Application January 17, 1942, Serial No. 105,265
Term of patent 7 years



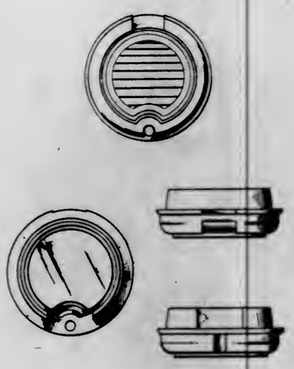
The ornamental design for a portable reflector signal, as shown.

131,928
DESIGN FOR AN ELECTRIC SHAVER
Raymond F. Loewy, New York, N. Y., assignor to Schick Incorporated, Stamford, Conn., a corporation of Delaware
Application January 29, 1942, Serial No. 105,510
Term of patent 14 years



The ornamental design for an electric shaver, as shown.

131,929
DESIGN FOR A BLACKOUT UNIT FOR HEADLIGHT LENSES
Walter C. Thee, United States Army
Application February 2, 1942, Serial No. 105,599
Term of patent 3½ years



The ornamental design for a blackout unit for headlight lenses, as shown.

131,930
DESIGN FOR A BROOCH PIN OR SIMILAR ARTICLE
William W. Hobé, New York, N. Y.
Application February 17, 1942, Serial No. 105,838
Term of patent 3½ years



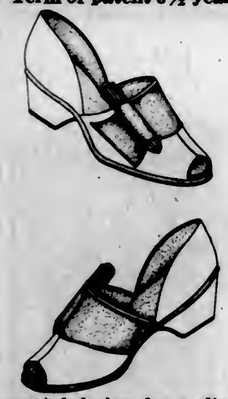
The ornamental design for a brooch pin or similar article, substantially as shown.

131,931
DESIGN FOR A BROOCH PIN OR SIMILAR ARTICLE
William W. Hobé, New York, N. Y.
Application February 17, 1942, Serial No. 105,840
Term of patent 3½ years



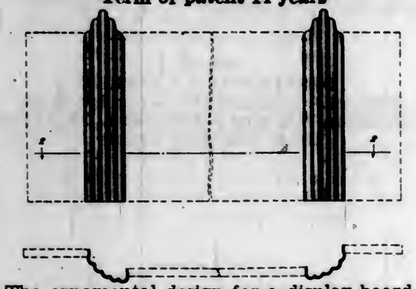
The ornamental design for a brooch pin or similar article, substantially as shown.

131,932
DESIGN FOR A SLIPPER
Thomas R. Atkins, New York, N. Y.
Application February 25, 1942, Serial No. 105,976
Term of patent 3½ years



The ornamental design for a slipper, substantially as shown.

131,933
DESIGN FOR A DISPLAY BOARD OR THE LIKE
John Bascom Dey, Lynchburg, Va.
Application May 22, 1941, Serial No. 101,097
Term of patent 14 years



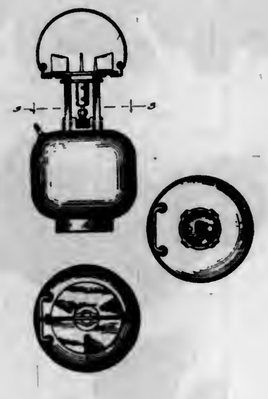
The ornamental design for a display board or the like, substantially as shown and described.

131,934
DESIGN FOR A SHOE
Neal Elmore, New York, N. Y.
Application September 16, 1941, Serial No. 103,378
Term of patent 7 years



The ornamental design for a shoe, as shown.

131,935
DESIGN FOR A PLUMBER'S FURNACE
Joseph S. Fagan, Inglewood, Calif.
Application July 2, 1941, Serial No. 101,853
Term of patent 7 years



The ornamental design for a plumber's furnace, as shown.

131,936
DESIGN FOR A HAIR ORNAMENT OR SIMILAR ARTICLE
Mary Kosikar, Toronto, Ontario, Canada
Application January 16, 1942, Serial No. 105,217
Term of patent 3½ years



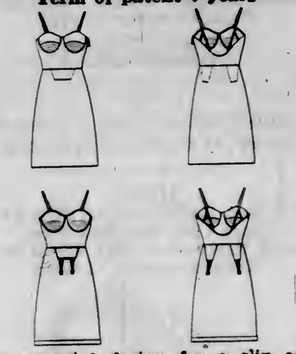
The ornamental design for a hair ornament or similar article, as shown.

131,937
DESIGN FOR AN EMBROIDERED TEXTILE FABRIC
Adolph Lehmann, New York, N. Y.
Application February 28, 1942, Serial No. 106,032
Term of patent 3½ years



The ornamental design for an embroidered textile fabric, substantially as shown and described.

131,938
DESIGN FOR A SLIP OR SIMILAR ARTICLE OF WEARING APPAREL
Amanda Nelson, Kalispell, Mont.
Application January 14, 1942, Serial No. 105,205
Term of patent 7 years



The ornamental design for a slip or similar article of wearing apparel, as shown.

131,939
DESIGN FOR A BARBECUE TABLE
Charles A. Robinson, Los Angeles, Calif.
Application July 26, 1941, Serial No. 102,515
Term of patent 7 years



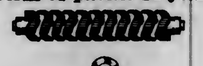
The ornamental design for a barbecue table, substantially as shown.

131,940
DESIGN FOR A HANDLE FOR SAFETY RAZORS
Victor T. Van Slyke, Philadelphia, Pa., assignor to Reciprocating Razors Corporation, Philadelphia, Pa.
Application January 9, 1941, Serial No. 97,897
Term of patent 14 years



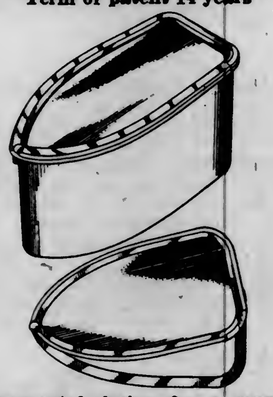
The ornamental design for a handle for a safety razor, as shown and described.

131,941
DESIGN FOR A ROLLER FOR RECIPROCATING RAZORS
Victor T. Van Slyke, Philadelphia, Pa., assignor to Reciprocating Razors Corporation, Philadelphia, Pa.
Application January 9, 1941, Serial No. 97,898
Term of patent 14 years



The ornamental design for a roller for reciprocating razors, as shown and described.

131,942
DESIGN FOR A RECEPTACLE FOR SADIRONS
Oscar Vike, Vernonia, Oreg.
Application February 3, 1941, Serial No. 98,679
Term of patent 14 years



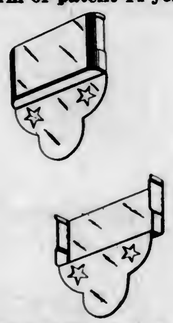
The ornamental design for a receptacle for sadirons, as shown.

131,943
DESIGN FOR A STUFFED DOLL OR SIMILAR ARTICLE
Leo L. Weiss, New York, N. Y.
Application August 22, 1941, Serial No. 102,984
Term of patent 7 years



The ornamental design for a stuffed doll or similar article, substantially as shown and described.

131,944
DESIGN FOR AN END CAP FOR A FLUORESCENT LIGHTING FIXTURE
David J. Biller, St. Louis, Mo., assignor to Day-Brite Lighting, Inc., St. Louis, Mo., a corporation of Missouri
Application December 29, 1941, Serial No. 104,887
Term of patent 14 years



The ornamental design for an end cap for a fluorescent lighting fixture, as shown.

131,945
DESIGN FOR A PIN OR SIMILAR ARTICLE
Vincent Gambardella, West Haven, Conn.
Application January 1, 1942, Serial No. 104,967
Term of patent 3½ years



The ornamental design for a pin or similar article substantially as shown.

131,946
DESIGN FOR A CONFECTION
Eugene H. Hale, Dayton, Ohio
Application September 8, 1941, Serial No. 103,211
Term of patent 7 years



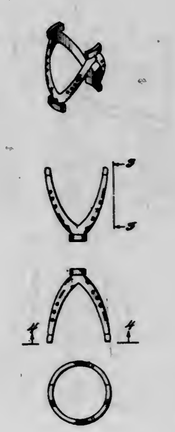
The ornamental design for a confection, substantially as shown.

131,947
DESIGN FOR A BADGE OR SIMILAR ARTICLE
John F. Kennedy, Cleveland, Ohio, assignor of one-half to Joseph H. Comtois, Cleveland, Ohio
Application October 3, 1941, Serial No. 103,628
Term of patent 3½ years



The ornamental design for a badge or similar article, as shown.

131,948
DESIGN FOR A FINGER RING OR SIMILAR ARTICLE
Andrew Schwartz, Providence, R. I.
Application January 17, 1942, Serial No. 105,267
Term of patent 3½ years



The ornamental design for a finger ring or similar article substantially as shown.

131,949
DESIGN FOR A MILK BOTTLE
William C. Teuniss, Grand Rapids, Mich.
Application April 19, 1941, Serial No. 100,526
Term of patent 14 years



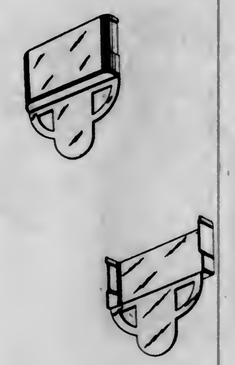
The ornamental design for a milk bottle, as shown.

131,950
DESIGN FOR AN END CAP FOR A FLUORESCENT LIGHTING FIXTURE
David J. Biller, St. Louis, Mo., assignor to Day-Brite Lighting, Inc., St. Louis, Mo., a corporation of Missouri
Application December 29, 1941, Serial No. 104,888
Term of patent 14 years



The ornamental design for an end cap for a fluorescent lighting fixture, as shown.

131,951
DESIGN FOR AN END CAP FOR A FLUORESCENT LIGHTING FIXTURE
David J. Biller, St. Louis, Mo., assignor to Day-Brite Lighting, Inc., St. Louis, Mo., a corporation of Missouri
Application December 29, 1941, Serial No. 104,886
Term of patent 14 years



The ornamental design for an end cap for a fluorescent lighting fixture, as shown.

131,952
DESIGN FOR A TRAILER
Duff Bolenbach, Los Angeles, Calif.
Application November 10, 1941, Serial No. 104,107
Term of patent 14 years



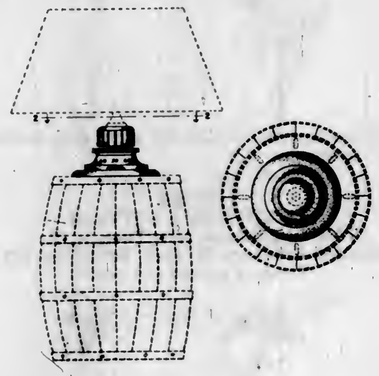
The ornamental design for a trailer, as shown.

131,953
DESIGN FOR A DEVICE FOR PREVENTING SEWAGE BACKFLOW INTO A LIQUID CONTAINER OF A WATER SUPPLY SYSTEM
Edward W. N. Boosey, Detroit, Mich.
Application July 28, 1941, Serial No. 102,522
Term of patent 14 years



The ornamental design for a device for preventing sewage backflow into a liquid container of a water supply system, as shown.

131,954
DESIGN FOR A COMBINED LAMP AND RADIO RECEIVING SET
Daniel J. Crowley, Grosse Pointe, Mich.
Application August 15, 1941, Serial No. 102,850
Term of patent 14 years



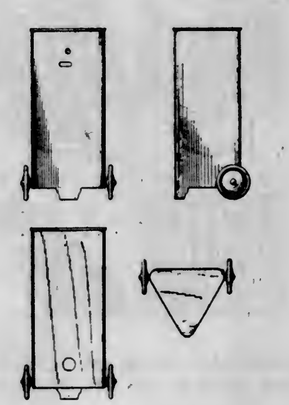
The ornamental design for a combined lamp and radio receiving set, substantially as shown and described.

131,955
DESIGN FOR A WATER HEATER
William H. Stangle, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application February 27, 1942, Serial No. 106,013
Term of patent 14 years



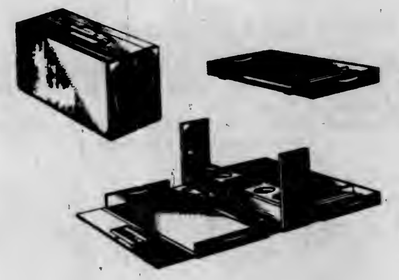
The ornamental design for a water heater, as shown and described.

131,956
DESIGN FOR A CASING FOR FLUSHING APPARATUS
Martin W. Thompson, Hammond, Ind.
Application October 20, 1941, Serial No. 103,824
Term of patent 7 years



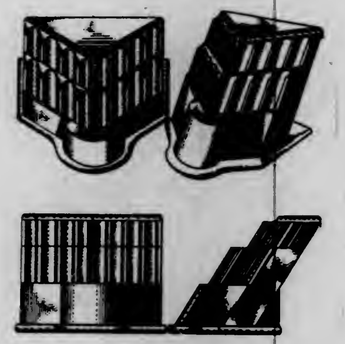
The ornamental design for a casing for flushing apparatus, as shown.

131,957
DESIGN FOR A PORTABLE BAR
Joseph R. Corbett, Sharonville, Ohio, assignor to Nu Tone Chimes, Inc., New York, N. Y., a corporation of New York
Application November 25, 1941, Serial No. 104,330
Term of patent 7 years



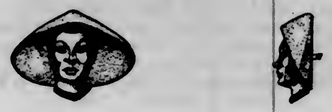
The ornamental design for a portable bar, substantially as shown.

131,958
DESIGN FOR A DISPLAY CABINET FOR CROCHET HOOKS OR THE LIKE
Edward D. Davis, Chicago, Ill., assignor to The Boye Needle Company, Chicago, Ill., a corporation of Illinois
Application March 21, 1941, Serial No. 99,755
Term of patent 14 years



The ornamental design for a display cabinet for crochet hooks or the like, as shown.

131,959
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, New York, N. Y., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application February 14, 1942, Serial No. 105,801
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

131,960
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, New York, N. Y., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application February 14, 1942, Serial No. 105,802
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

131,961
DESIGN FOR A PIN CLIP
Alfred Philippe, New York, N. Y.
Application February 14, 1942, Serial No. 105,797
Term of patent 3½ years



The ornamental design for a pin clip, substantially as shown.

131,962
DESIGN FOR A PIN CLIP
Alfred Philippe, New York, N. Y.
Application February 14, 1942, Serial No. 105,798
Term of patent 3½ years



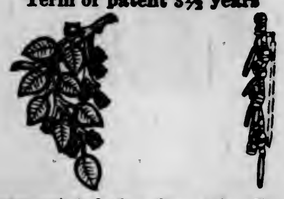
The ornamental design for a pin clip, substantially as shown.

131,963
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, New York, N. Y.
Application February 14, 1942, Serial No. 105,796
Term of patent 3½ years



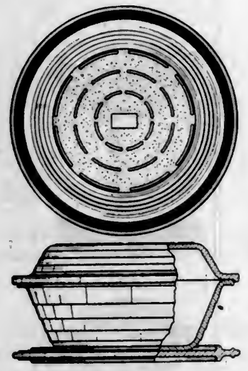
The ornamental design for a brooch or similar article, substantially as shown.

131,964
DESIGN FOR A PIN CLIP
Alfred Philippe, New York, N. Y.
Application February 19, 1942, Serial No. 105,901
Term of patent 3½ years



The ornamental design for a pin clip, substantially as shown.

131,965
DESIGN FOR A COMBINATION GLASS DISH, COVER, AND BASE
Louis Poglein, Jeannette, Pa., assignor to McKee Glass Company, Jeannette, Pa., a corporation of Pennsylvania
Application June 4, 1941, Serial No. 101,286
Term of patent 3½ years



The ornamental design for a combination glass dish, cover, and base, as shown.

131,966
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Spaney, New York, N. Y.
Application February 14, 1942, Serial No. 105,804
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

131,967
DESIGN FOR A BROOCH PIN OR SIMILAR ARTICLE
William W. Hobé, New York, N. Y.
Application February 19, 1942, Serial No. 105,888
Term of patent 3½ years



The ornamental design for a brooch pin or similar article, substantially as shown.

131,968
DESIGN FOR A BROOCH PIN OR SIMILAR ARTICLE
William W. Hobé, New York, N. Y.
Application February 19, 1942, Serial No. 105,889
Term of patent 3½ years



The ornamental design for a brooch pin or similar article, substantially as shown.

131,969
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, New York, N. Y., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application February 19, 1942, Serial No. 105,909
Term of patent 3½ years



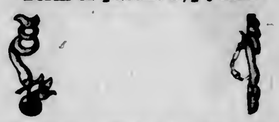
The ornamental design for a brooch or similar article, substantially as shown.

131,970
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, New York, N. Y., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application February 19, 1942, Serial No. 105,910
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

131,971
DESIGN FOR AN EARRING
Adolph Katz, New York, N. Y., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application February 19, 1942, Serial No. 105,911
Term of patent 3½ years



The ornamental design for an earring, substantially as shown.

131,972
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, New York, N. Y., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application February 19, 1942, Serial No. 105,912
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

131,973
DESIGN FOR A PIN CLIP
Alfred Philippe, New York, N. Y.
Application February 14, 1942, Serial No. 105,799
Term of patent 3½ years



The ornamental design for a pin clip, substantially as shown.

131,974
DESIGN FOR AN EARRING
Alfred Philippe, New York, N. Y.
Application February 19, 1942, Serial No. 105,899
Term of patent 3½ years



The ornamental design for an earring, substantially as shown.

131,975
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, New York, N. Y.
Application February 19, 1942, Serial No. 105,900
Term of patent 3½ years



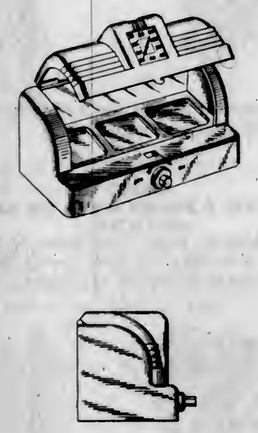
The ornamental design for a brooch or similar article, substantially as shown.

131,976
DESIGN FOR A SEPARABLE BROOCH
Gene Verrecchio, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. V., a corporation of New York
Application February 19, 1942, Serial No. 105,913
Term of patent 3½ years



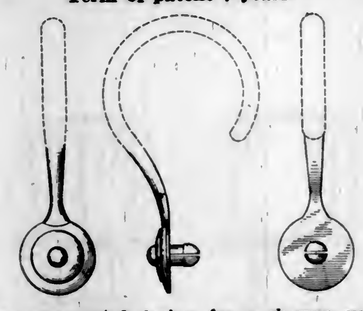
The ornamental design for a separable brooch, as shown and described.

131,977
DESIGN FOR A PERFUME DISPLAY CASE
Joseph Miller, New York, N. Y.
Application July 25, 1941, Serial No. 102,479
Term of patent 3½ years



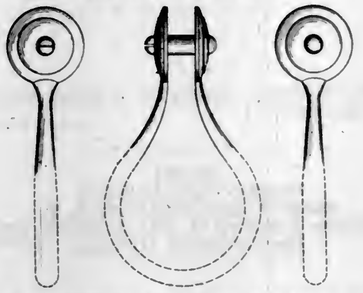
The ornamental design for a perfume display case, substantially as shown and described.

131,978
DESIGN FOR A SHOWER CURTAIN HOOK
Jacob Z. Silverman, Brooklyn, N. Y.
Application January 24, 1942, Serial No. 105,406
Term of patent 7 years



The ornamental design for a shower curtain hook, substantially as shown and described.

131,979
DESIGN FOR A SHOWER CURTAIN HOOK
Jacob Z. Silverman, Brooklyn, N. Y.
Application January 24, 1942, Serial No. 105,407
Term of patent 14 years



The ornamental design for a shower curtain hook, substantially as shown and described.

131,980
DESIGN FOR A UNIFORM
Arthur M. Berger, New York, N. Y.
Application February 18, 1942, Serial No. 105,866
Term of patent 3½ years



The ornamental design for a uniform substantially as shown.

131,981
DESIGN FOR A DRESS
Alexander Caron, New York, N. Y.
Application February 28, 1942, Serial No. 106,028
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

131,982
DESIGN FOR A DRESS
Alexander Caron, New York, N. Y.
Application February 28, 1942, Serial No. 106,029
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

131,983
DESIGN FOR A DRESS
Alexander Caron, New York, N. Y.
Application February 28, 1942, Serial No. 106,030
Term of patent 3½ years



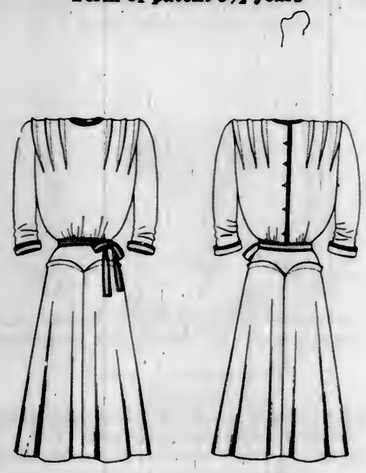
The ornamental design for a dress, substantially as shown.

131,984
DESIGN FOR A DRESS
Alexander Caron, New York, N. Y.
Application February 28, 1942, Serial No. 106,031
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

131,985
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application February 16, 1942, Serial No. 105,823
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

131,986
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application February 16, 1942, Serial No. 105,824
Term of patent 3½ years



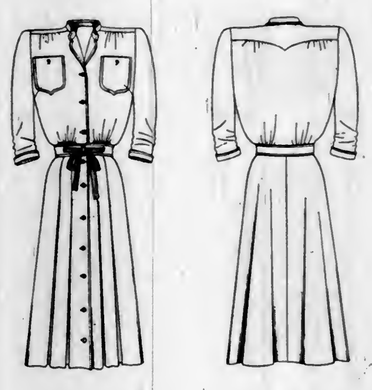
The ornamental design for a dress, substantially as shown.

131,987
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application February 25, 1942, Serial No. 105,969
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

131,988
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application February 25, 1942, Serial No. 105,970
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

131,989
DESIGN FOR A COAT
Bonnie Cashin, New York, N. Y.
Application February 25, 1942, Serial No. 105,971
Term of patent 3½ years



The ornamental design for a coat, substantially as shown.

131,990
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application February 25, 1942, Serial No. 105,972
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

131,991
DESIGN FOR A DRESS
Sadie Elmo, New York, N. Y.
Application February 16, 1942, Serial No. 105,825
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

131,992
DESIGN FOR A DRESS
Minna Fields, New York, N. Y.
Application February 16, 1942, Serial No. 105,821
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

131,993
DESIGN FOR A DRESS
Minna Fields, New York, N. Y.
Application February 16, 1942, Serial No. 105,822
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

131,994
DESIGN FOR A DRESS
Minna Fields, New York, N. Y.
Application February 25, 1942, Serial No. 105,963
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

131,995
DESIGN FOR A DRESS ENSEMBLE
Isadore Hammer, New York, N. Y.
Application February 18, 1942, Serial No. 105,863
Term of patent 3½ years



The ornamental design for a dress ensemble, substantially as shown.

131,996
DESIGN FOR A DRESS ENSEMBLE
Lillian Heims, New York, N. Y.
Application February 16, 1942, Serial No. 105,826
Term of patent 3½ years



The ornamental design for a dress ensemble, substantially as shown.

131,997
DESIGN FOR A DRESS
Betty Kessler, New York, N. Y.
Application February 18, 1942, Serial No. 105,861
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

131,998
DESIGN FOR A DRESS
Betty Kessler, New York, N. Y.
Application February 18, 1942, Serial No. 105,862
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

131,999
DESIGN FOR AN EMBROIDERED LACE TRIMMING OR SIMILAR ARTICLE
Robert Koenig, Hasbrouck Heights, N. J.
Application February 4, 1942, Serial No. 105,628
Term of patent 3½ years



The ornamental design for an embroidered lace trimming or similar article, substantially as shown.

132,000
DESIGN FOR A DRESS
William Maidman, New York, N. Y.
Application February 14, 1942, Serial No. 105,794
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,001
DESIGN FOR A PIN CLIP
Alfred Philippe, New York, N. Y.
Application February 14, 1942, Serial No. 105,800
Term of patent 3½ years



The ornamental design for a pin clip, substantially as shown.

132,002
DESIGN FOR A DRESS ENSEMBLE
Samuel Riesenberg, New York, N. Y.
Application February 25, 1942, Serial No. 105,967
Term of patent 3½ years



132,002—Continued



The ornamental design for a dress ensemble, substantially as shown.

132,003
DESIGN FOR A DRESS
Albert Ruchman, New York, N. Y.
Application February 25, 1942, Serial No. 105,966
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,004
DESIGN FOR A DRESS
Maxwell A. Rudolph, New York, N. Y.
Application February 14, 1942, Serial No. 105,793
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,005
DESIGN FOR A DRESS
Irving Sachs, New York, N. Y.
Application February 25, 1942, Serial No. 105,978
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,006
DESIGN FOR A SUIT
Abraham Shotland, New York, N. Y.
Application February 21, 1942, Serial No. 105,928
Term of patent 3½ years



The ornamental design for a suit, substantially as shown.

132,007
DESIGN FOR A DRESS ENSEMBLE
Jacob Siegel, New York, N. Y.
Application February 16, 1942, Serial No. 105,829
Term of patent 3½ years





The ornamental design for a dress ensemble, substantially as shown.

Patents Nos. 2,279,291 to 2,280,049

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CONTENTS

	Page
Issue of April 14, 1942	267
Adjudicated Patents	267
Trade-Mark Registrations Canceled	267
Notice of Cancellation	267
Applications Under Examination	268
Decisions of the U. S. Courts—	
Wingfoot Corporation v. Coe, Commissioner of Patents	269
Morrison v. Coe, Commissioner of Patents	269
Patent Suits	271
Adverse Decisions in Interference	272
Trade-Marks Published (104 Applications)	273
Trade-Mark Registrations Granted	284
Trade-Mark Registrations Renewed	290
Reissues	293
Plant Patents	295
Patents Granted	296
Designs	471

April 14, 1942

Trade-marks	126	No. 394,527 to No.	394,652, inclusive.
T. M. Renewals	46		
Reissues	9	No. 22,066 to No.	22,074, inclusive.
Plant Patents	2	No. 508 to No.	509, inclusive.
Patents	759	No. 2,279,291 to No.	2,280,049, inclusive.
Designs	88	No. 132,008 to No.	132,095, inclusive.
Total	1,030		

Adjudicated Patents

(D. C. Ill.) Gordon patent, No. 1,745,162, for ironing machine, claim 7 *Held* valid and not infringed. *Gordon* v. *Conlon Corporation*, 42 F. Supp. 962.

(D. C. Ill.) Gordon patent, No. 1,795,023, for ironing machine, claims 7 and 8 *Held* invalid, but, if valid, are infringed, claim 9 *Held* invalid and not infringed. *Id.*

(D. C. Ohio) Reed patent, No. 1,839,590, for friction clutch, *Held* invalid, but, if valid, *Held* infringed. *Borg-Warner Corporation* v. *Accurate Parts Mfg. Co.*, 42 F. Supp. 1018.

(C. C. A. W. Va.) Wiegand and Venuto patent, No. 1,889,429, for carbon black and process of making same, claims 1 and 2 *Held* valid and infringed. *Binney & Smith Co.* v. *United Carbon Co.*, 125 F.(2d) 255.

(D. C. Ohio) Nutt and Reed patent, No. 2,101,410, for clutch plate, *Held* valid. *Borg-Warner Corporation* v. *Accurate Parts Mfg. Co.*, 42 F. Supp. 1018.

(D. C. Ill.) Horsley patent, No. 2,107,997, for roll top box, *Held* not infringed, claims 6 and 7 *Held* invalid. Shanklin Mfg. Co. v. *Goldblatt Bros.*, 42 F. Supp. 1003.

(D. C. Ill.) Christopher patent, No. 2,151,187, for electric photometer, claim 3 *Held* valid and infringed. *Christopher* v. *Hornstein*, 42 F. Supp. 993.

(D. C. Ill.) Bechik patent, No. 2,154,556, for handle for mattresses and the like, claim 2 *Held* not infringed. *Bechik* v. *Handy Button Mach. Co.*, 42 F. Supp. 991.

(D. C. Ill.) Joyce patent, No. 2,170,561, for combined Bourdon tube and trap, claims 4, 6, 8, 11, and 12 *Held* valid and infringed. *James P. Marsh Corporation* v. *U. S. Gauge Co.*, 42 F. Supp. 998.

Trade-Mark Registrations Canceled

180,405. Certain named toilet preparations. Lournay, Inc., Milwaukee, Wis. Registered February 26, 1924. Canceled January 23, 1942.

183,061. Monthly periodical. L. Bamberger & Co. Publishing Co., Newark, N. J. Registered April 22, 1924. Canceled March 11, 1942.

340,130. Bathing suits. Paul Snyder, Baltimore, Md. Registered November 3, 1936. Canceled January 23, 1942.

378,541. Canned apple juice for beverage purposes. United States Warehouse Co., doing business as Fruit Sales Agency, Detroit, Mich. Registered June 11, 1940. Canceled January 23, 1942.

384,766. Antileak fluid for inner tubes of tires. Lock-air Company Inc., Mineola, N. Y. Registered Februry 4, 1941. Canceled March 17, 1942.

389,053. Dress shields. I. B. Kleinert Rubber Company, New York, N. Y. Registered July 22, 1941. Canceled January 23, 1942.

Notice of Cancellation

U. S. Patent Office, *Richmond, Va., March 18, 1942.*

Itala Imported Food Products Co., Inc., its assigns or legal representatives, take notice:

A cancellation proceeding has been instituted by this Office upon the application of Uddo Taormina Corp., 107 Humbolt St., Brooklyn, N. Y., to effect the cancellation of trade-mark registration of Cafiero & Mencacci, No. 193,009, dated December 16, 1924. The assignment records of this Office show a transfer of title to this registration to Itala Imported Food Products Co., Inc., Brooklyn, N. Y., who has been substituted for said Cafiero & Mencacci to defend the registration concerned. The notice of such proceeding sent by registered mail to Itala Imported Food Products Co., Inc., at the said address, having been returned by the post office as undeliverable, notice is hereby given that unless Itala Imported Food Products Co., Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

HENRY VAN ARSDALE,
Assistant Commissioner.

Condition of Applications Under Examination at Close of Business March 28, 1940

(Total number of applications awaiting action, excluding Trade-Mark Division, 46,755; Trade-Mark Division, 1,242. Oldest new case, June 4, 1941; oldest amended, April 28, 1941.)
(The dates given are 1941 except where † indicates 1942)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	July 22	July 17	724
6708	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Oct. 8	Sept. 25	703
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Dec. 3	Dec. 2	587
7063	4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating, Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	Oct. 20	Oct. 28	532
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	Oct. 8	Oct. 1	421
4898 C	6. LEWERS, A. M., Carbon Chemistry (part)	Sept. 5	Sept. 10	1096
5726	7. JARBOE, C. G., Optics; Photography	Sept. 8	Sept. 10	1010
3885	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	Aug. 9	Sept. 22	777
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Oct. 7	Oct. 2	622
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	July 16	July 21	938
5087 B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Dec. 4	Nov. 25	381
7701	12. SPINTMAN, SAMUEL (Act.), Machine Elements; Mechanical Starters; Stop Mechanisms	Oct. 25	Sept. 10	554
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planting; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Aug. 1	July 10	628
5097	14. FREEHOF, H. B. (Act.), Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	Nov. 26	Nov. 21	601
4897	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Sept. 4	Aug. 29	1139
5716	16. SPENCER, C. J., Telegraphy; Telephony	Sept. 20	Oct. 9	506
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	July 21	July 15	999
4612	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Oct. 7	Oct. 8	588
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Aug. 22	Aug. 13	659
6606	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	Sept. 29	Sept. 30	378
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Nov. 18	Oct. 24	392
5600	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	June 4	June 5	1811
7624	23. BUTTNER, W. J., Registers (part)	July 16	June 6	240
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Sept. 29	Sept. 30	855
5709	25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Oct. 16	Oct. 15	526
5893	26. YOUNG, R. R., Electricity, Generation; Motive Power	Oct. 29	Oct. 18	449
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	Oct. 3	July 31	610
4628	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Elements; Cylinders and Pistons	Sept. 20	Aug. 16	376
5082	29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	Aug. 13	Aug. 9	682
4083	30. McCANN, L. P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Dec. 3	Dec. 11	404
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	Oct. 3	Oct. 3	1536
4086	32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Sept. 16	Sept. 15	906
6096	33. KAUFFMAN, H. E. (Act.), Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads.	July 28	July 25	873
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Surface Track; Track Sanders; Draft Appliances; Signals and Indicators.	Aug. 1	Oct. 18	410
3876	35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Portable Receptacles	Aug. 2	July 22	995
7892	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Oct. 2	Oct. 2	640
5699 B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Nov. 21	Nov. 21	606
3084	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stoneworking; Wells; Plastic Compositions.	Aug. 26	Aug. 22	695
4878	39. WHITNEY, F. I., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Nov. 13	Nov. 12	540
7880	40. DRUMMOND, E. J., Metallic, Wood, Paper, and Special Receptacles	Aug. 22	Aug. 22	1553
7612	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	Oct. 6	Oct. 4	568
5882	42. CUTTING, H. O., Electric Signaling	Oct. 28	Oct. 22	433
4886 B	43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Sept. 10	Sept. 4	798
4087 B	44. HARVEY, L. P., Refrigeration	Sept. 24	Sept. 27	350
7098	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Oct. 9	Aug. 21	396
4613	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Sept. 2	Sept. 2	773
6082	47. KANOF, W. J., Clutches; Brakes	Nov. 5	Oct. 24	362
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Aug. 21	Aug. 21	816
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Sept. 8	Sept. 17	678
4701	50. LEVIN, S., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	Aug. 30	Aug. 30	1514
5628	51. BACKUS, C. D., Radiant Energy (part)	Dec. 17	Dec. 17	382
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	Nov. 17	Nov. 5	417
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	July 26	Apr. 28	523
5883	54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	Nov. 8	Nov. 17	432
6883	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	Nov. 21	Nov. 8	293
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Aug. 4	July 30	1373
6613	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	Nov. 1	Nov. 24	280
5605	58. DOWELL, E. F., Abrading; Bottles and Jars	Oct. 18	Nov. 8	422
4709	59. SHEPPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	July 24	July 24	1246
5896	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Oct. 6	Oct. 11	347
6724	61. YOUNGKWAI, B., Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	Sept. 19	Sept. 18	726
5621	62. PUGH, E. C., Games; Geometrical Instruments	Sept. 25	Aug. 25	717
4898	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	July 17	July 14	1402
6708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats and Glue; Liquid Coating Compositions; Fuel.	Sept. 3	Sept. 18	1640
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	Oct. 31	Nov. 29	383
2099 B	Trade Marks: F. A. RICHMOND	†Feb. 9	†Feb. 23	1242
2005	Designs: H. H. KALUPY	†Feb. 15	†Feb. 27	542

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Appeals for the District of Columbia

WINGFOOT CORPORATION *v.* COE, COMMISSIONER OF PATENTS

No. 7,725. Decided December 29, 1941

PATENTABILITY—WATER-PROOFING COMPOSITION.

Claims to a water-proofing composition for coating flexible wrapping materials *Held* properly denied to appellant for lack of invention over the prior art.

APPEAL from the District Court of the United States for the District of Columbia. Affirmed.

Mr. Gordon C. Mack (*Mr. Edmund H. Parry, Jr.* of counsel) for Wingfoot Corporation.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

Before MILLER, VINSON, and EDGERTON, Associate Justices

PER CURIAM:

This is a suit under R. S. § 4915, 35 U. S. C. § 63, to obtain a patent on Sebrell and Thies application No. 722,480, filed April 26, 1934, for a water-proofing composition adapted for coating flexible wrapping materials such as paper and cloth. The composition is made by reacting rubber in solution with chlorostannic acid or a halide of an amphoteric metal. Some of the claims use the name "Pliolite." Some call for heat-sealing. The Patent Office and the district court were of opinion that the appealed claims lack invention, in view of Geer Patent No. 1,744,881, Gentile Patent No. 1,804,556, and an article by Sebrell, one of the applicants, and other authors, in Industrial and Engineering Chemistry, vol. 19, p. 1033. We cannot say that their opinion is clearly wrong. *Abbott* v. *Coe*, 71 App. D. C. 195, 109 F. 2d 449, 512 O. G. 3.

Affirmed.

U. S. Court of Appeals for the District of Columbia

MORRISON *v.* COE, COMMISSIONER OF PATENTS

No. 7,721. Decided February 9, 1942

[— F.(2d) —]

1. PATENTABILITY—INVENTION—WANT OF COMMERCIAL SUCCESS.

"Want of commercial success does not of itself ordinarily show lack of invention, but the causes for it may throw light on that question in particular cases."

2. SAME—ROOM-COOLING SYSTEM.

Claims to a room-cooling system *Held* unpatentable in view of two prior art patents, patentable ingenuity not being required to put the teachings of these patents together to achieve applicant's conception and results.

APPEAL from the District Court of the United States for the District of Columbia. Affirmed.

Mr. Donald M. Carter (*Mr. Spencer B. Michael* of counsel) for Morrison.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

Before GRONER, Chief Justice, and STEPHENS and RUTLEDGE, Associate Justices

RUTLEDGE, *A. J.*:

The appeal challenges a judgment for the Commissioner of Patents in a suit brought under Rev. Stat. § 4915 (1878), 35 U. S. C. § 63 (1934), to authorize and compel him to issue a patent to plaintiff for a room-cooling system. The Patent Office and the trial court held it not inventive.

The system is intended to cool only the lower portion of the room, that is, the part actually occupied by human bodies. As plaintiff regards them, the essential features consist in having this part of the room airtight, with no opening except from above. Windows, doors, and other wall openings are placed in the upper portion. The cooling device is placed immediately below the windows, so that warm air coming through them is cooled and partially dehydrated by contact with it. The cooled air descends by gravity to the lower part of the room and pushes upward the warm, stale air with impurities such as smoke. The warm air then escapes through the open windows. There is no dispute that the application and claims on appeal require the features of a closed or nearly airtight lower part of the room forming in effect a tank, windows and doors in the upper or uncooled part, and cooling means placed below the windows. It is disputed whether the application and the claims require the windows to be open, the cooling means to be immediately below the windows, and the absence of a fan or other artificial means for circulating, as distinguished from cooling, the air. Plaintiff says his system will not work with a fan, does not require it, nor do the application and claims, and that his discarding of the fan or other mechanical means of circulation is one of the evidences of genius in his invention.

The Commissioner says the system as plaintiff conceives it is not inventive, and if it were the application and the claims do not describe it, in the respects noted, but are so broad as to cover practically all aircooling systems, whether or not previously known.

Plaintiff says his system is not merely a departure, but in fact is a reversal of the prior art, and revolutionary. This he claims in two principal respects, namely, the omission of mechanical means of circulation and operation of the system by gravity, apparently both vertically and laterally; second, in substituting open for closed circulation, that is, in having the windows open rather than closed. It is said that control of the volume of air was thought previously to be impossible with open windows or other apertures, and the problem created by them was regarded as being to avoid having to cool all of the out-of-doors. Plaintiff claims he suc-

ceeded in doing this and thus accomplished what was thought to be impossible. He also claims that fans or other mechanical means of circulation were regarded as essential in the prior art, and his system was equally revolutionary in dispensing with them. Thus, plaintiff relies principally for invention upon those features as to which there is dispute whether the application and the claims specify them.

Radical results as well as ideas are claimed. Since only the bottom of the room need be and is cooled, there are in the room two distinct air zones, divided by an invisible ceiling or plane of division located at the level of the window sills and the cooling device. The cool air in the lower part not only expels the warm, stale air upward, but prevents it from coming down, thus creating the invisible ceiling. It also acts as an insulator at the sides of the lower part of the room, dispensing with the need and cost of insulation by construction. This feature of cooling only the bottom is said to make for great economy over all other systems and, in conjunction with the simplicity and adaptability of the system to various sizes of rooms, to make air-cooling possible for poor people.

The use of gravity, rather than fans, for circulation, it is said, keeps entirely separate, or almost so, the fresh, cool air and the impure, stale, warm air. Fans, it is claimed, mix the two, and the slower method of gravity avoids this, thus giving not only cool, but fresh and clean air. Thus, the system improves on the prior art by cooling the body "by radiation in a quiet body of cool air instead of cooling by induction by blowing a current of air over the body." Other claimed advantages need not be mentioned.

The Board of Appeals rejected the alleged invention as being obvious. It said:

> "We believe that any air-conditioning engineer should understand the advantage of locating the cooler at this point [below the window] in order to induce the fresh air to flow down to the occupied portion of the room and displace the air there rather than to allow it to mingle with the warmer air in the upper portion and then escape from the room without benefiting the occupants."

The District Court held that there was no invention over the prior art, and cited Grimm, No. 763,279, as disclosing a basement room having door and window openings in the upper portion, and Kramer, No. 1,706,852, as disclosing a portable room cooling apparatus, which might be placed in any part of the room and has a fan. The court concluded that no invention was required to place the Kramer device in the Grimm room, that the claims in suit are not patentable over the prior art, and dismissed the bill as to all of them.

We cannot say that the Patent Office and the district court were clearly wrong. The judgment therefore must be affirmed. *Abbott* v. *Coe*, 71 App. D. C. 195, 109 F.(2d) 449 (1939), 512 O. G. 3. That would be true if the application and the claims clearly covered the invention in the manner plaintiff says they do. So considered, plaintiff practically seeks to patent the law of gravity and the laws of heat as applied to the movement of air, and does so in a way which, we agree with the Board of Appeals, would be obvious to any air-conditioning engineer, if not perhaps also to any layman. Plaintiff lays great stress upon the fact that the prior art knew only closed systems of circulation and required mechanical means for this. In other words, his invention consisted in opening the windows and dispensing with the fan, as much as in providing the "tank" arrangement of the room. Thus he claims he did not follow or extend the previous art. Rather he went directly contrary to it, and thereby achieved his allegedly startling results.

Assuming all this to be true, it does not follow that the method was not obvious. The fact that cold air descends and warm air rises, so that the one displaces the other when mixed, is a fact of common physical knowledge. So is the fact that warm air will cool when brought into contact with a cooling surface. Likewise, fresh air enters through open windows and stale air escapes through them. That basement rooms are cooler than other portions of the house is common knowledge. That is so not only because cold air sinks, displacing and pushing warm air upward, but also because basements commonly have the "tank" effect, with windows and other openings at the top. But keeping the windows closed creates a stagnant condition of the air. The obvious way to relieve this is by opening them. But to do so lets in warm air when the outside temperature is the higher, or would do so but for the fact, on which plaintiff greatly relies, that cold air descends and because of this property prevents warm air from above mingling with cold air below. But it would seem obvious that if the warm air at the window were brought in contact with a cooling surface there which would reduce its temperature below that of the air beneath the window, it would descend and displace that air, expelling it through the window. Whether obvious or not, we cannot say that so much imagination was required to put these commonly known facts together to make a cooling system that the mental operation was a stroke of genius as a matter of law, if there is any such thing in the world of inventiveness. *Cuno Engineering Corp.* v. *Automatic Devices Corp.*, 10 U. S. L. Week 4005 (U. S. 1941); *Thomson Spot Welder Co.* v. *Ford Motor Co.*, 265 U. S. 445 (1924), 328 O. G. 11; *Stoody Co.* v. *Mills Alloys*, 67 F.(2d) 907 (C. C. A. 9th, 1933), cert. denied, 292 U. S. 637 (1934). Nor is this clearer as a matter of fact.

We agree with the trial court, therefore, that Grimm discloses plaintiff's room arrangement and Kramer teaches, if it does not actually disclose, the location and use of his cooling device. That Kramer's device also used a fan for circulation does not negative this teaching. Whether or not a fan were used would affect only the rate, not the fact or the function, of circulation. We therefore also agree that patentable ingenuity was not required to put Grimm and Kramer together to achieve plaintiff's conception and results. Taken so, they taught the solution as well as the problem.

[1] Plaintiff's ingenuity, if any, appears to be in the structure or arrangement of the buildings. All windows and doors must be in the upper part of the building, six feet at least above the floor, unless it is intended the occupants shall be only partially cooled. The figures show two types of construction. One has the floor level on or above the ground surface. The other has it below the surface, like a basement. If the former is used two sets of stairways, ladders or elevators must be built for entrance, one outside and up to the doorsill, the other inside and down from it. If the second type of construction is used, only the inside stairway is needed. But this advantage is offset by the necessity for excavating all of the room below the level of the doorsill. The quantity of excavation might, however, be reduced by placing the structure on the side of a hill. No doubt these features, the double stairs or other means of elevation and descent in the one case, and the single stairs plus the excavation in the other, account for the failure of architects to adopt the invention and thus for its failure to achieve commercial success, admitted at the argument. These difficulties obviously would be magnified somewhat in the case of a multiple-room structure, especially one having several stories. Want of commercial success does not of itself ordinarily show lack of invention, but the causes for it may throw light on that question in particular cases, as we are inclined to think they do in this one.

In view of our ruling on the question of invention, it is not necessary to discuss whether the application and the claims disclose the claimed invention as plaintiff says it consists. A careful reading of the application shows the Patent Office is correct in the view that it does not require the windows to be opened. It states that "one or more windows may be formed in the side walls." But it also states:

> "It will be understood therefore that the coils cause circulation of the air within the room, *whether the windows are open or not*, and the *recirculation* within the room which the coils cause *goes on whether the windows are open or not* and *whether or not some* air *is coming in* through the windows *and* some air is *spilling out* through the windows." [Italics supplied.]

Though some of the claims specify "an open window . . . system," this language of the application clearly negatives the necessity for this feature.

Nor did the application require the exclusion of fans or other mechanical circulating means, or indicate their undesirability. Some of the claims imply their absence, but others seem expressly to contemplate their presence or are so broadly drawn as to include them. Thus claim 16 specifies "means for inserting and holding cool air in the lower part of said room." This clearly, without more, would not exclude a fan.

It is questioned, too, whether the claims require location of the cooling device immediately below the windows. But in any event it is clear the application does not require the windows to be opened or the exclusion of the fan or other mechanical means for circulation as distinct from cooling. The claims also include one or the other of these features, but insofar as they may include them depart from the application. Without these features there was even more clearly no invention, and the invention plaintiff now says he made is not defined.

[2] The judgment is affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,224,518, 1,275,195, V. G. Apple, Armature construction for dynamo-electric machines; Re. 17,353, same, Method of building armatures; 1,264,749, same, Building armatures; 1,238,959, E. J. Tomlinson, Terminal bending tool for armature; Re. 16,889, V. G. Apple, Machine for bending armature terminals; Re. 16,823, same, Machine for pressing inductors into place on the core of dynamo electric machine elements and bending them simultaneously, D. C., E. D. Mich. (Detroit), Doc. 67, *V. G. Apple Laboratories* v. *Ford Motor Co.* Dismissed as to 1,224,518 and Re. 16,823 Oct. 29, 1941. Judgment for defendant, dimissing complaint with prejudice Jan. 2, 1942.

1,238,959. (See 1,224,518.)

1,264,749. (See 1,224,518.)

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1,564,378, H. Stein et al., Bleached and dyed furs; 1,573,200, same, Process of bleaching and dyeing furs, D. C., S. D. N. Y., Doc. 17/26, *Steinfur Patents Corp.* v. *Harold-Norman Becher, Inc., et al.* Consent judgment (notice Dec. 26, 1941).

1,573,200. (See 1,564,378.)

1,581,188, C. G. Fink, Electrodepositing chromium and of preparing baths therefor; 1,802,463, same, Process of producing chromium-plated articles with mirror-like scratch finish or the like surface, filed Nov. 28, 1941, D. C., N. D. Ill., E. Div., Doc. 3672, *United Chromium, Inc.*, v. *Kohler Co.*

1,582,219, Hopkinson & Dewey, Seal for cans; 1,765,134, Dewey & Crocker, Sealing composition, C. C. A., 2d Cir., Doc. —, *Dewey & Almy Chemical Co. et al.* v. *Mimex Co., Inc.* Judgment affirmed as to Latex Patent and reversed as to Bentonite patent (notice Jan. 6, 1942).

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1,749,656, 2,010,909, D. H. Zell, Vanity case (Declaratory Judgment), Doc. 6/124, *Rex Products Corp. et al.* v. *Zell Products Corp. et al.* Doc. 6/163, *Zell Products Corp. et al.* v. *Rex Products Corp. et al.* Order dismissing cause for lack of prosecution (notice Dec. 23, 1941).

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1,894,532. (See 1,840,766.)

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1,848,822, R. W. Burnett, Hand wheel; 1,911,056, 1,879,974, same, Railway car hand brake; 1,911,057, same, Winding drum for railway car hand brakes; 1,963,115, same, Releasing and holding means for car hand brakes; 2,054,651, same, Hand brake mechanism, D. C., N. D. Ill., E. Div., Doc. 2080, *Ajax Hand Brake Co. et al.* v. *Superior Hand Brake Co.* Dismissed for want of equity Oct. 16, 1941.

1,876,686, R. W. Kaltenbach, Car dumper chute control mechanism; 1,920,402, same, Car dumper, C. C. A., 4th Cir., Doc. 4871, *The C. & O. Rwy. Co.* v. *R. W. Kaltenbach Corp.* Decree modifying and affirming decree of District Court Dec. 26, 1941.

1,879,974. (See 1,848,822.)

1,894,432. (See 1,840,766.)

1,911,056. (See 1,848,822.)

1,911,057. (See 1,848,822.)

1,920,402. (See 1,876,686.)

1,921,274, A. A. Warner, Universal joint; 1,982,445, P. E. Miquelon, Boot; 1,987,678, Goddard & Ketcham, Universal joint and cover, D. C., N. D. Ill., E. Div., Doc. 2007, *Universal Products Co., Inc.*, v. *Precision Parts Mfg. Corp.* By stipulation cause dismissed without prejudice Oct. 17, 1941.

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1,950,588, J. W. Anderson, Windshield wiper, filed Dec. 18, 1941, D. C., E. D. Ill. (Danville), Doc. 237–D, *Productive Inventions, Inc., et al.* v. *Blue Star Auto Stores, Inc.*

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1,964,933. (See Re. 19,951.)

1,982,445. (See 1,921,274.)

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1,987,678. (See 1,921,274.)

1,988,056. (See Re. 19,951.)

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2,054,651. (See 1,848,822.)

2,067,265, W. Ernst, Hydraulic double-acting metal-drawing press; 2,146,535, same, Double-action metal-drawing press; 2,167,941, same, Double-acting press; 2,128,152, H. W. MacMillin, Auxiliary hydraulic device for presses, D. C., N. D. Calif. (San Francisco), Doc. 21,745–L, *The Hydraulic Press Mfg. Co.* v. *The Ralph N. Brodie Co.* Dismissed without prejudice Dec. 30, 1941.

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2,131,429, C. W. Dieckmann, Meat cutter; 2,206,529, 2,186,716, same, Cutter for meat grinders; 2,259,623, same, Rotary cutter; T. M. 336,299, Meat grinder knives, meat grinder plates and sausage linking gauge; T. M. 349,582, same, Meat grinder knives and meat grinder plates; T. M. 376,980, same, Perforated meat grinder end plates; T. M. 376,979, same, Meat grinder knives; 2,250,753, same, Locking means for bearing studs and nuts, suit for Declaratory Judgment filed Dec. 8, 1941, D. C., N. D. Ill., E. Div., Doc. 3695, *Korrect Knitting Mfg. Co., Inc.*, v. *The Specialty Mfg. Co., Inc., et al.*

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2,176,408, E. M. Peterson, Frozen confection and art of making the same; 2,176,409, same, Manufacture of frozen confections, D. C. Utah (Salt Lake City), Doc. 152, *Paramount Ice Cream Co.* v. *Mid-Western Dairy Products Co. et al.* Patents held void Nov. 13, 1941.

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2,186,716. (See 2,131,429.)

2.206.529. (See 2,131,429.)

2,213,492, J. Galter, Turnable means for camera take-up spools; 2,220,599, same, Means for preventing reverse rotation of camera winding knobs, D. C., N. D. Ill., E. Div., Doc. 3009, *J. Galter* v. *Rolls Camera Mfg. Co. et al.* Consent decree holding patents valid and infringed, injunction Oct. 21, 1941.

2,220,599. (See 2,213,492.)

2,240,410. (See Des. 119,867.)

2,250,753. (See 2,131,429.)

2,259,623. (See 2,131,429.)

Re. 16,823. (See 1,224,518.)

Re. 16,889. (See 1,224,518.)

Re. 17,353. (See 1,224,518.)

Re. 19,951 (of 1,964,933), F. W. Storck, Apparatus for duplicating imprinted matter; 1,988,056, same, Method and apparatus for duplicating printed matter, D. C. Mass., Doc. E 4331, *Standard Mailing Machine Co.* v. *Ditto, Inc.* Decree for plaintiff Dec. 30, 1941.

Re. 21,676 (of 2,128,193), C. B. Shane, Overcoat; T. M. 347,649, same, Men's overcoats and top coats, D. C., N. D. Ill., E. Div., Doc. 2501, *C. B. Shane Corp.* v. *M. L. Rothschild, Inc.* Dismissed without prejudice Oct. 29, 1941.

Des. 119,867, J. A. Murdock, Paring and coring tool; 2,240,410, same, Paring knife, D. C., N. D. Ill., E. Div., Doc. 2330, *M. & M. Mfg. Co.* v. *Vaughan Novelty Mfg. Co., Inc., et al.* Dismissed for want of equity, patents held invalid Oct. 23, 1941. Appeal filed Nov. 21, 1941.

Des. 124,042, Des. 124,043, G. Rebechini, Wall bracket, D. C., N. D. Ill., E. Div., Doc. 2872, *Hindu Incense Mfg. Co.* v. *Art-Ton Products Co.* Consent decree holding patents, valid and infringed, injunction Oct. 29, 1941.

Des. 124,043. (See Des. 124,042.)

T. M. 165,616, T. M. 222,928, Deshell Laboratories, Inc., Remedy for constipation; T. M. 277,393, Petrolagar Laboratories, Inc., same, D. C., N. D. Ill., E. Div., Doc. 2739, *Petrolagar Laboratories, Inc.*, v. *North American Pharmacal Co.* By stipulation cause dismissed without prejudice Oct. 28, 1941.

T. M. 222,928. (See T. M. 165,616.)

T. M. 277,393. (See T. M. 165,616.)

T. M. 336,299. (See 2,131,429.)

T. M. 347,649. (See Re. 21,676.)

T. M. 349,482. (See 2,131,429.)

T. M. 376,979. (See 2,131,429.)

T. M. 376,980. (See 2,131,429.)

T. M. 378,403, Dorothy Gray Salons, Perfume; T. M. 389,010, same, Perfume, toilet water, rouge, etc., filed Nov. 6, 1941, D. C., N. D. Ill., E. D., Doc. 3584, *Lehn & Fink Products Corp.* v. *The Zoro Co.*

T. M. 389,010. (See T. M. 378,403.)

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,195,215, S. S. Kistler and C. E. Barnes, Grinding wheel, decided March 16, 1942, claims 1 and 3.

Pat. 2,236,842, W. G. Allyn, Endoscopic instrument, decided March 9, 1942, claim 1.

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 14, 1942

[VOL. 537. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 447,312. THE NON-MERCURIC CARROT COMPANY, Danbury, Conn. Filed Sept. 25, 1941. Under the act of February 20, 1905, as amended June 10, 1938.

FABIAN CARROT

The word "Carrot" is disclaimed apart from the mark.

FOR FUR RESULTING FROM THE CHEMICAL TREATMENT OF FUR SKINS AND THEREAFTER CUT FROM THE SKIN, GENERALLY KNOWN AS "CARROTED" FUR.

Claims use since Mar. 7, 1940.

Ser. No. 449,331. THE TEXTOLITE CORPORATION, Newark, N. J. Filed Dec. 9, 1941.

TEXTOLITE

FOR REAL LEATHER, LEATHER SUEDE, AND RUBBER SHEET MATERIAL.

Claims use since 1935.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 451,054. GOLD SEAL IMPORTERS, INC., New York, N. Y. Filed Feb. 18, 1942.

Cordéra

FOR LADIES' HANDBAGS.

Claims use since Feb. 4, 1942.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

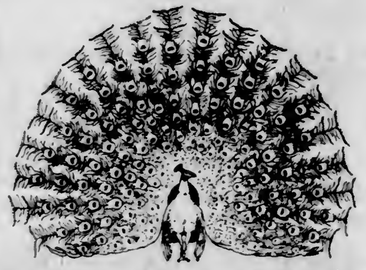
Ser. No. 431,739. OSMIC CHEMICAL COMPANY, Brockton, Mass. Filed May 9, 1940.

SHU-SHINE

FOR LIQUID CLEANER AND SPOT REMOVER FOR FABRICS AND GABARDINE CLEANER.

Claims use since 1938.

Ser. No. 449,388. PEACOCK LABORATORIES, INC., Philadelphia, Pa. Filed Dec. 11, 1941.



FOR LIQUID CLEANER FOR REMOVING STAINS RESULTING FROM THE ACTION OF SILVERING SOLUTIONS FROM THE HANDS, ETC. OF THOSE ENGAGED IN MAKING MIRRORS.

Claims use since Nov. 3, 1941.

Ser. No. 450,743. JAMES H. RHODES & COMPANY, Chicago, Ill. Filed Feb. 4, 1942.

ROTA-PAD

Applicant disclaims the term "Pad" apart from the mark.

FOR STEEL WOOL PADS USED ON FLOOR CLEANING AND POLISHING MACHINES.

Claims use since Dec. 30, 1941.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 434,317. CARSON PIRIE SCOTT & COMPANY, Chicago, Ill. Filed July 25, 1940.

Carson's Petal

Applicant disclaims the surname "Carson's" except as shown.

FOR COSMETICS—NAMELY, NIGHT CREAM, EXTRA RICH NIGHT CREAM, THROAT CREAM, CLEANSING CREAM FOR DRY SKIN, MAKE-UP LOTION, FACIAL PASTE, RICH FACIAL OIL, SKIN FRESHENER, CUCUMBER LOTION, ANTISEPTIC SKIN LOTION AND RICH SKIN CREAM.

Claims use since June 25, 1940.

Ser. No. 439,017. GEMLOID CORPORATION, Elmhurst, Long Island, N. Y. Filed Dec. 19, 1940.

GEM-COTE

Applicant disclaims the word "Cote" apart from the mark.

FOR CHEMICAL PREPARATIONS DESIGNED TO BE APPLIED TO PRINTED MATTER, PICTURES, PAPERS, ETC., FOR RENDERING SAME GREASE, WATER AND VAPOR-PROOF AS WELL AS ALKALI, ACID, AND ALCOHOL RESISTANT.

Claims use since Sept. 1, 1940.

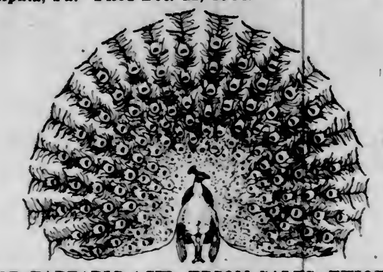
Ser. No. 440,210. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa. Filed Feb. 1, 1941.

SILENE

FOR ALKALINE EARTH METAL SILICATE HAVING PIGMENTARY PROPERTIES FOR GENERAL USE IN THE INDUSTRIAL ARTS.

Claims use since June 12, 1939.

Ser. No. 494,390. PEACOCK LABORATORIES, INC., Philadelphia, Pa. Filed Dec. 11, 1941.



FOR TARTARIC ACID, EPSOM SALTS, THIOUREA, TIN CHLORIDE, ROCHELLE SALT, LEAD NITRATE, SILVER NITRATE, SODIUM HYDROXIDE, AMMONIUM WATER, AND NITRIC ACID.

Claims use since Nov. 3, 1941.

Ser. No. 449,788. WILLIAM J. SOLTER, doing business as Superior Products Company, Golden, Colo. Filed Dec. 26, 1941.



Applicant disclaims the words "Superior Chemicals" apart from the mark.

FOR STOCK TONICS AND CONDITIONERS CONSISTING OF A MIXTURE OF POTASSIUM CARBONATE, POTASSIUM HYDROXIDE, SODIUM BICARBONATE, MANGANESE SULPHATE, CALCIUM CARBONATE, SODIUM SALICYLATE, CALCIUM PHOSPHATE, IRON OXIDE, SULPHUR, CHARCOAL, TURPENTINE, SALT, ZINC SULPHATE, COBALT SULPHATE, POTASSIUM IODIDE, COPPER SULPHATE, MAGNESIUM OXIDE, PHOSPHORIC ACID, SODIUM NITRATE, GLAUBER'S SALT, IRON SULPHATE, IN DRY POWDER FORM.

Claims use since Jan. 1, 1941.

Ser. No. 450,030. STANLEY HOME PRODUCTS, INC., Westfield, Mass. Filed Jan. 6, 1942.

7-70-7

FOR INSECTICIDES.

Claims use since May, 1937.

Ser. No. 450,240. MILLER CHEMICAL & FERTILIZER CORP., Baltimore, Md. Filed Jan. 15, 1942.

ROTEX 75 DUST

FOR INSECTICIDE SPRAY FOR VEGETATION.

Claims use since Dec. 1, 1941.

Ser. No. 450,476. MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Jan. 26, 1942.

Americe

FOR CLEANSING, FOUNDATION AND EMOLLIENT CREAMS FOR THE SKIN, SKIN FRESHENERS, ASTRINGENT AND ANTISEPTIC MOUTH WASHES, MINERAL OIL FOR MEDICINAL USE, MILK OF MAGNESIA AND EXTRACT OF WITCH HAZEL.

Claims use since 1911.

Ser. No. 450,496. SUNWAY VITAMIN CO., Chicago, Ill. Filed Jan. 26, 1942.

SUNWAY

FOR THERAPEUTIC VITAMIN PREPARATION.

Claims use since August, 1941.

Ser. No. 450,669. WARICH DRUG CO., INC., Richmond Hill, Long Island, N. Y. Filed Feb. 2, 1942.

WARICH

FOR HAIR TONIC AND BRILLIANTINE FOR THE HAIR, CREAMS, LOTIONS, GLYCERIN FOR BODY CARE, EAU DE COLOGNE, TOILET WATER, AND RUBBING ALCOHOL FOR THE SKIN, PETROLEUM JELLY, MOUTH WASH, TOOTH PASTE AND HYDROGEN PEROXIDE SOLUTION, SUN-TAN OIL, OIL OF WINTERGREEN; DRYSBORIC ACID, EPSOM SALTS, BICARBONATE OF SODA, MUSTARD POWDER, AND SEIDLITZ POWDER; FOR MEDICINAL PURPOSES—MINERAL OIL, SWEET OIL, SPIRITS OF TURPENTINE, CASTOR OIL, HALIBUT LIVER OIL, COD LIVER OIL, VITAMINS IN TABLET, CAPSULE, AND SOLUTION FORM, OIL OF CLOVES, CAMPHORATED OIL, SPIRIT OF NITROUS ETHER, AROMATIC SPIRITS OF AMMONIA, SPIRIT OF CAMPHOR, SPIRIT OF PEPPERMINT, TINCTURE OF IODINE, MERCUROCHROME, ASPIRIN, AND SACCHARIN, GLYCERIN SUPPOSITORIES, HEMORRHOIDAL SUPPOSITORIES; BATH PREPARATIONS FOR RHEUMATISM, FOR THE HEART, AND AS A SKIN TONIC.

Claims use since Mar. 17, 1940.

Ser. No. 450,670. JAMES L. YOUNGHUSBAND, Chicago, Ill. Filed Feb. 2, 1942.

CHIP CHEK

FOR PREPARATIONS FOR THE HANDS AND FINGER NAILS COMPRISING NAIL POLISH, NAIL LACQUER, NAIL POLISH REMOVER, PADS SATURATED WITH NAIL POLISH REMOVER, NAIL POLISH RENEWER, NAIL LACQUER PROTECTOR, NAIL BALM FOR THE CUTICLE, HAND LOTION AND HAND CREAM.

Claims use since June 13, 1938.

Ser. No. 450,695. PEGGY SAGE, INC., Stamford, Conn. Filed Feb. 3, 1942.

CONFECTION

FOR LIQUID NAIL POLISHES.

Claims use since Jan. 27, 1942.

Ser. No. 450,986. AMERICAN OIL COMPANY, Baltimore, Md. Filed Feb. 16, 1942.

AMOCO

FOR ANTI-FREEZE, BRAKE FLUID, INSECT SPRAY.

Claims use since Oct. 7, 1930.

Ser. No. 450,988. AMERICAN OIL COMPANY, Baltimore, Md. Filed Feb. 16, 1942.

AMOCO

FOR ANTI-FREEZE, BRAKE FLUID, INSECT SPRAY.

Claims use since Oct. 7, 1930.

Ser. No. 451,132. JOHN K. BRATER AND CO. INC., New York, N. Y. Filed Feb. 21, 1942.

Asnarettes

The trade-mark consists of the word "Asnarettes."

FOR MEDICINAL CIGARETTES FOR THE RELIEF OF ASTHMA AND THROAT IRRITATIONS.

Claims use since Jan. 20, 1942.

Ser. No. 451,146. PARFUMS CHARBERT, INC., New York, N. Y. Filed Feb. 21, 1942.

"THEY'RE OFF!"

FOR PERFUMES, TOILET WATERS, SACHETS, EAU DE COLOGNES, TALCUM, FACE AND BATH POWDER, FACE CREAMS AND CLEANSING CREAMS, AFTER SHAVING LOTION, AND HAIR TONIC.

Claims use since Feb. 11, 1942.

Ser. No. 451,294. CHRISTY COSMETICS, INC., New York, N. Y. Filed Feb. 28, 1942.

LIPBOMB

FOR LIPSTICKS.

Claims use since Nov. 20, 1941.

Ser. No. 451,316. NOVOCOL CHEMICAL MFG. CO. INC., Brooklyn, N. Y. Filed Feb. 28, 1942.

OCTACAINE

FOR LOCAL ANESTHETICS IN SOLUTION AND OINTMENT.

Claims use since Dec. 5, 1941.

Ser. No. 451,332. ADDRESSOGRAPH-MULTIGRAPH CORPORATION, Cleveland, Ohio. Filed Mar. 2, 1942.

SEALINX

FOR MATERIALS AND SOLUTIONS FOR TREATING PRINTING PLATES TO PREPARE AND PRESERVE REPRODUCIBLE IMAGES THEREON.

Claims use since Aug. 30, 1934.

Ser. No. 451,333. AMERICAN HOME PRODUCTS CORPORATION, Jersey City, N. J. Filed Mar. 2, 1942.

Davitin

FOR MEDICINAL VITAMIN PREPARATIONS.
Claims use since Jan. 12, 1942.

Ser. No. 451,335. THE BOVININE COMPANY, Jersey City, N. J. Filed Mar. 2, 1942.

VITULES

FOR MEDICINAL VITAMIN PREPARATIONS.
Claims use since Feb. 2, 1942.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 449,510. ANDOVER KENT INC., Middletown, Conn. Filed Dec. 16, 1941.



FOR AMMUNITION—NAMELY, SHOT CARTRIDGES.
Claims use since June 16, 1941.

Ser. No. 451,006. DAISY MANUFACTURING COMPANY, Plymouth, Mich. Filed Feb. 16, 1942.

DEFENDER

FOR AIR RIFLES.
Claims use since Jan. 22, 1942.

CLASS 10

FERTILIZERS

Ser. No. 446,351. BIO-DYNAMIC FARMING AND GARDENING ASSOCIATION, INC., Phoenixville, Pa. Filed Aug. 19, 1941.

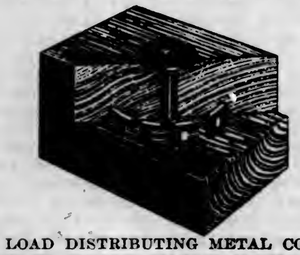


Aplicant disclaims the word "Products" apart from the mark.
FOR MANURE, COMPOST, AND PLANT PREPARATIONS MADE FROM FARM-YARD MANURE QUARTZ, OAK BARKS, CAMOMILE, VALERIANA, YARROW, AND TERAXICUM OFFICINALIS DESIGNED TO INCREASE THE FERTILIZING PROPERTIES OF COMPOST AND MANURE.
Claims use since June 10, 1941.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 448,591. TIMBER ENGINEERING COMPANY, Washington, D. C. Filed Nov. 12, 1941.



FOR LOAD DISTRIBUTING METAL CONNECTORS FOR USE IN JOINING TIMBER MEMBERS IN ALL TYPES OF LIGHT AND HEAVY FRAME TIMBER STRUCTURES.
Claims use since Oct. 20, 1941.

Ser. No. 449,381. D. J. MURRAY MANUFACTURING CO., Wausau, Wis. Filed Dec. 11, 1941.



FOR GREASE TRAPS, CESS POOLS, BASIN TRAPS, AND FLOOR DRAINS.
Claims use since Dec. 17, 1938.

CLASS 20

LINOLEUM AND OILED CLOTH

Ser. No. 450,390. CARTHAGE MILLS INCORPORATED, Cincinnati, Ohio. Filed Jan. 22, 1942.



The woman's head is fanciful. The word "Genuine" is disclaimed except as shown.
FOR PRINTED FELT BASE FLOOR COVERING.
Claims use since Dec. 29, 1941.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 443,621. AMERICAN FLUORESCENT LIGHTING CORPORATION, New York, N. Y. Filed May 16, 1941.

Friolite

FOR FLUORESCENT LAMPS, ELECTRICAL LIGHTING FIXTURES, ELECTRICAL APPLIANCES—NAMELY, BULBS, STARTERS, STARTER SWITCHES, STARTER SOCKETS, LAMPHOLDERS, COMPENSATORS, BALLASTS, TRANSFORMERS, REACTORS, CAPACITORS, CONDENSERS, CHOKE COILS, COILS, RESISTORS, RELAYS, AND AUXILIARIES.
Claims use since May 1, 1941.

Ser. No. 447,042. COOK ELECTRIC COMPANY, Chicago, Ill. Filed Sept. 15, 1941.

UNIFLEX

FOR APPARATUS IN TELEPHONE SYSTEMS—NAMELY, CABLE TERMINAL UNITS, SUB-STATION PROTECTORS, PROTECTED AND UNPROTECTED TERMINALS AND MOUNTINGS THEREFOR.
Claims use since July, 1941.

Ser. No. 448,202. NATIONAL SCREEN SERVICE CORPORATION, New York, N. Y. Filed Oct. 28, 1941.

NEO ART

FOR ELECTRIC SIGNS WITH CHANGEABLE LETTER FEATURE.
Claims use since Sept. 12, 1941.

Ser. No. 449,156. RAFAEL ANGEL RODRIGUEZ, doing business as Electric & Automotive Products Co., New York, N. Y. Filed Dec. 3, 1941.



The representation of the goods is disclaimed.
FOR ELECTRICAL LAMPS.
Claims use since June 1, 1941.

Ser. No. 449,813. TESTED PAPERS OF AMERICA, INC., Chicago, Ill. Filed Dec. 27, 1941.

TEST ★ MARK

FOR INCANDESCENT ELECTRIC LIGHT BULBS.
Claims use since Nov. 6, 1941.

Ser. No. 449,900. ECONOMY AUTO STORES, INC., Atlanta, Ga. Filed Dec. 31, 1941.



The portrait is fanciful.
FOR ELECTRIC GENERATORS, SPARK PLUGS, RADIO RECEIVING SETS, AND WET AND DRY STORAGE BATTERIES.
Claims use since May 15, 1941.

Ser. No. 450,434. VICTORY SWITCH CO., Los Angeles, Calif. Filed Jan. 23, 1942.

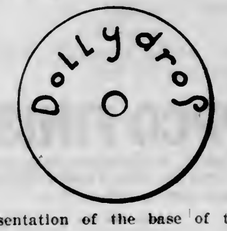
WIZARD

The word "Switch" is disclaimed.
FOR ELECTRIC SWITCHES.
Claims use since Dec. 17, 1940.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 448,595. VIRGINIA WOODIN, Arlington, Va. Filed Nov. 12, 1941.



The representation of the base of the doll is disclaimed per se.
FOR DOLLS.
Claims use since Nov. 10, 1941.

Ser. No. 450,825. GEO. BORGFELDT CORPORATION, New York, N. Y. Filed Feb. 7, 1942.

MY PLAYMATE

FOR DOLLS AND TOY ANIMALS.
Claims use since February, 1907, on dolls; and since Jan. 21, 1942, on toy animals.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 449,204. ELECTROGRAPHIC CORPORATION, New York, N. Y. Filed Dec. 5, 1941.

ORIGITONE

FOR MACHINERY FOR SECURING THIN METALLIC PRINTING PLATES TO RIGID CURVED BACKING MEMBERS.
Claims use since Nov. 19, 1941.

Ser. No. 450,699. SILENT HOIST WINCH & CRANE CO., Brooklyn, N. Y. Filed Feb. 3, 1942.

STEVE-KRANE

The word "Krane" is disclaimed apart from the mark.
FOR PORTABLE HOISTS AND CRANES.
Claims use since Nov. 7, 1939.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 427,217. VEEDER-ROOT INCORPORATED, Hartford, Conn. Filed Jan. 6, 1940.

CUTMETER

The word "Meter" is disclaimed apart from the mark.
FOR REGISTERING OR COUNTING MECHANISMS—NAMELY, COUNTERS FOR MEASURING YARDAGE OF CLOTH PRODUCED ON A LOOM AND AUTOMATICALLY STOPPING THE LOOM WHEN A PREDETERMINED LENGTH OF CLOTH HAS BEEN WOVEN.
Claims use since Oct. 17, 1939.

Ser. No. 444,959. AMERICAN OPTICAL COMPANY, Southbridge, Mass. Filed June 30, 1941.



FOR EYE PROTECTION LENSES AND BLANKS FOR MAKING THE SAME.
Claims use since Oct. 1, 1924.

Ser. No. 450,217. UNITED PRECISION PRODUCTS CO., Chicago, Ill. Filed Jan. 14, 1942.

UPPCO FINISH

The word "Finish" is disclaimed apart from the mark.
FOR PLUG GAUGES AND PARTS THEREFOR.
Claims use since Aug. 1, 1941.

Ser. No. 450,371. MILLS NOVELTY COMPANY, Chicago, Ill. Filed Jan. 21, 1942.

Soundies

FOR MOTION PICTURE PROJECTION APPARATUS.
Claims use since June 12, 1940.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 448,653. MABEL CUMBOW RUSKIN, Abingdon, Va. Filed Nov. 14, 1941.

Louis XV

FOR CERAMIC TABLE AND COOKING WARE, VASES, JARS, JUGS, JARDINIERES, CROCKS, CUSPIDORS, AND FLOWER POTS.
Claims use since January, 1936.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 450,605. SHEBOYGAN CHAIR COMPANY, Sheboygan, Wis. Filed Jan. 30, 1942.



The representation of the high chair is disclaimed apart from the mark.
FOR CHILDREN'S HIGH CHAIRS.
Claims use since Jan. 28, 1942.

CLASS 33

GLASSWARE

Ser. No. 450,361. KIMBLE GLASS COMPANY, Vineland, N. J. Filed Jan. 21, 1942.

NEUTRAGLAS

FOR GLASS RODS, GLASS TUBING, AND GLASS CONTAINERS—NAMELY, JARS, DISHES, AND BOTTLES, INCLUDING AMPOULE, AND OTHER VIALS, AND FLASKS.
Claims use since Dec. 4, 1941.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 449,383. D. J. MURRAY MANUFACTURING CO., Wausau, Wis. Filed Dec. 11, 1941.



FOR UNIT HEATERS, BLAST COILS, HUMIDIFIERS, CONDENSERS, RADIATOR FIN SECTIONS, GRATES, AND FURNACE FITTINGS.
Claims use since Dec. 17, 1938.

Ser. No. 451,278. YORK OIL BURNER CO., INC., York, Pa. Filed Feb. 27, 1942.



Applicant disclaims the word "Aire" apart from the mark.
FOR FUEL BURNING AIR CONDITIONING UNITS.
Claims use since Sept. 8, 1939.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 450,068. THE FRED GRETSCH MANUFACTURING CO., Brooklyn, N. Y. Filed Jan. 8, 1942.

BELVOX

FOR PHONOGRAPHS, PHONOGRAPH RECORDS, PHONOGRAPH RECORD PLAYERS, AND PHONOGRAPH NEEDLES.
Claims use since Dec. 20, 1941.

CLASS 37

PAPER AND STATIONERY

Ser. No. 447,751. METAL SPECIALTIES MANUFACTURING CO., Chicago, Ill. Filed Oct. 13, 1941.

Presto

FOR STAPLES.
Claims use since Mar. 7, 1940.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 439,517. ADDISON LEWIS, doing business as Photonovel Products, Ltd., Minneapolis, Minn. Filed Jan. 9, 1941.

PHOTONOVEL

FOR BOOKS.
Claims use since Dec. 5, 1940.

Ser. No. 449,357. SCHOLASTIC CORPORATION, New York, N. Y., Dayton, Ohio, and Pittsburgh, Pa. Filed Dec. 10, 1941.

JUNIOR SCHOLASTIC

FOR PERIODICAL.
Claims use since September, 1937.

Ser. No. 449,720. CLEONAE W. BROOKS, doing business as American Horseman, Lexington, Ky. Filed Dec. 23, 1941.

Line Up, Please

FOR DEPARTMENT OF A PERIODICAL.
Claims use since July, 1941.

Ser. No. 450,383. UNITED PRESS ASSOCIATIONS, New York, N. Y. Filed Jan. 21, 1942.

U N I P R E S S

FOR PUBLICATION DEVOTED TO NEWS EVENTS AND NEWS REPORTING APPEARING FROM TIME TO TIME.
Claims use since Mar. 10, 1920.

Ser. No. 450,841. SUPERVISION PUBLISHING COMPANY, INC., New York, N. Y. Filed Feb. 7, 1942.

SUPERVISION

FOR PERIODIC PUBLICATION.
Claims use since February, 1939.

Ser. No. 450,973. MEEHANITE RESEARCH INSTITUTE OF AMERICA, INC., Pittsburgh, Pa. Filed Feb. 14, 1942.

MEEHANITE

FOR PERIODICAL PUBLICATION.
Claims use since July 1, 1930.

CLASS 39

CLOTHING

Ser. No. 388,364. OBERMAN & COMPANY, Jefferson City, Mo. Filed Jan. 30, 1937.



FOR OUTER SHIRTS AND JACKETS.
Claims use since December, 1919.

Ser. No. 444,028. WHITEHOUSE MANUFACTURING COMPANY, Chicago, Ill. Filed May 28, 1941.

Whitehouse SERVING FORMALS

The term "Serving Formals" is disclaimed apart from the mark.
FOR MEN'S, WOMEN'S, AND CHILDREN'S WASHABLE COTTON WORK UNIFORMS, APRONS, LINEN AND COTTON JACKETS.
Claims use since Mar. 1, 1941.

Ser. No. 447,695. THOMAS SHERRIFF CUNNINGHAM, Stewarton, Scotland. Filed Oct. 11, 1941.



FOR STOCKINGS AND SOCKS.
Claims use since Sept. 15, 1937.

Ser. No. 448,501. ALFRED DECKER & COHN, INC., Chicago, Ill. Filed Nov. 10, 1941.

MT. AERY

FOR MEN'S CLOTHING—NAMELY, MEN'S SUITS.
Claims use since November, 1940.

Ser. No. 449,703. ROLLINS HOSIERY MILLS, INC., Des Moines, Iowa. Filed Dec. 22, 1941.

Rollins Rollikers

The word "Rollins" is disclaimed except as shown.
FOR LADIES' COTTON UNDERGARMENTS—NAMELY, BRAS, "BRIEFS," TRUNKS, AND TIGHTS.
Claims use since Nov. 14, 1941.

Ser. No. 450,388. ASSOCIATED LERNER SHOPS OF AMERICA, INC., New York, N. Y. Filed Jan. 22, 1942.

Deb-hatter

Applicant disclaims the word "Hatter" except as shown.
FOR LADIES' AND MISSES' HATS.
Claims use since May 10, 1941.

Ser. No. 450,911. STEIN BROS., New York, N. Y. Filed Feb. 11, 1942.



No claim is made to the word "Zipper" apart from the mark.
FOR MEN'S TOPCOATS AND OVERCOATS.
Claims use since Jan. 2, 1941.

Ser. No. 450,960. ARNOLD M. ELBS CO. INC., New York, N. Y. Filed Feb. 14, 1942.

UNDIFORM

FOR LADIES' UNDERWEAR.
Claims use since Jan. 29, 1942.

Ser. No. 451,081. HAT CORPORATION OF AMERICA, Norwalk, Conn. Filed Feb. 19, 1942.

POMPADORA

FOR HATS FOR WOMEN.
Claims use since Feb. 6, 1942.

Ser. No. 451,255. BETMAR HATS INC., New York, N. Y. Filed Feb. 27, 1942.

PANTELLA

FOR LADIES' AND CHILDREN'S HATS.
Claims use since Feb. 13, 1942.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 443,114. CHASE BRASS & COPPER CO. INCORPORATED, Waterbury, Conn. Filed Apr. 30, 1941.

CHASE

FOR COMBS; AND TOILET SETS EACH CONSISTING OF BRUSHES BACKED OR TRIMMED WITH NON-PRECIOUS METAL, COMB, NAIL FILE, AND SCISSORS, ALL IN A TOILET SET CONTAINER.
Claims use since Dec. 21, 1939, on combs; and since Sept. 22, 1939, on toilet sets.

Ser. No. 450,344. RAND RUBBER COMPANY, Brooklyn, N. Y. Filed Jan. 20, 1942.

Duchess

FOR DRESS SHIELDS.
Claims use since Jan. 1, 1921.

CLASS 43

THREAD AND YARN

Ser. No. 450,712. COURTAULDS, LIMITED, London, England. Filed Feb. 4, 1942.

ABERMATT

FOR YARNS OF CELLULOSE.
Claims use since 1930.

Ser. No. 450,716. COURTAULDS, LIMITED, London, England. Filed Feb. 4, 1942.

COURTELLE

FOR RAYON YARNS.
Claims use since 1936.

Ser. No. 450,718. COURTAULDS, LIMITED, London, England. Filed Feb. 4, 1942.

COURTESSA

FOR RAYON YARNS.
Claims use since 1938.

Ser. No. 450,720. COURTAULDS, LIMITED, London, England. Filed Feb. 4, 1942.

DULABER

FOR YARNS OF CELLULOSE.
Claims use since 1929.

Ser. No. 450,722. COURTAULDS, LIMITED, London, England. Filed Feb. 4, 1942.

DULCOURTO

FOR YARNS OF CELLULOSE.
Claims use since 1928.

Ser. No. 450,724. COURTAULDS, LIMITED, London, England. Filed Feb. 4, 1942.

DULVISCA

FOR YARNS OF CELLULOSE.
Claims use since 1931.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 445,035. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y. Filed July 3, 1941.

Arc-Vue

The word "Vue" is disclaimed apart from the mark.
FOR OTOSCOPES.
Claims use since June 6, 1941.

Ser. No. 448,490. HAMILTON C. BATES, doing business as C. J. Bates & Son, Chester, Conn. Filed Nov. 10, 1941.

SILVALUME

FOR MANICURE KITS.
Claims use since Sept. 19, 1941.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 443,902. R. C. WILLIAMS & COMPANY, INC., New York, N. Y. Filed May 24, 1941.



FOR FOUNTAIN SYRUPS FOR FLAVORING NONALCOHOLIC MALTLESS BEVERAGES.
Claims use since April, 1915.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 442,979. BEN A. SARKISIAN, doing business as California Raisin Co., Fresno, Calif. Filed Apr. 25, 1941.



FOR RAISINS.
Claims use since Sept. 15, 1940.

Ser. No. 443,664. MID-CONTINENTAL LABORATORIES, Kansas City, Mo. Filed May 17, 1941.



FOR YEAST CULTURE IN THE NATURE OF A DIGESTIVE ENZYME AND VITAMIN CARRIER THAT IS MIXED WITH LIVE STOCK AND POULTRY FEEDS BEFORE USE.
Claims use since September, 1939.

Ser. No. 445,531. BENNETT RUSSELL, Yakima, Wash. Filed July 21, 1941.

"JUIC-E-IZED"

FOR CANNED FRUITS, DRIED PRUNES, SLICED PINEAPPLE AND CANNED VEGETABLES.
Claims use since Oct. 29, 1940.

Ser. No. 446,344. THE YORBA LINDA CITRUS ASSOCIATION, Yorba Linda, Calif. Filed Aug. 18, 1941.

YORBA

Applicant is owner of T. M. Reg. No. 207,162.
FOR FRESH CITRUS FRUITS.
Claims use since 1913.

Ser. No. 446,345. THE YORBA LINDA CITRUS ASSOCIATION, Yorba Linda, Calif. Filed Aug. 18, 1941.

LINDA

Applicant is owner of T. M. Reg. No. 207,162.
FOR FRESH CITRUS FRUITS.
Claims use since 1913.

Ser. No. 446,862. CENTRAL CHEMICAL CORPORATION OF MARYLAND, Hagerstown, Md. Filed Sept. 8, 1941.

FAMOUS FEED

The word "Feed" is disclaimed apart from the mark.
FOR FEEDS FOR POULTRY, DAIRY, HOGS, STEERS, AND HORSES.
Claims use since Oct. 20, 1937.

Ser. No. 447,175. THE FRITO COMPANY, Dallas, Tex. Filed Sept. 9, 1941.

CHEEZ-SAN

Applicant disclaims the word "Cheez."
FOR CRACKER SANDWICHES WITH CHEESE FILLING.
Claims use since May 23, 1941.

Ser. No. 449,307. VENTURA PACIFIC CO., Montalvo, Calif. Filed Dec. 8, 1941.

By the SEA

FOR FRESH CITRUS FRUIT.
Claims use since Sept. 4, 1941.

Ser. No. 449,431. PACIFIC OLIVE COMPANY, Visalia, Calif. Filed Dec. 12, 1941.

EARLY CALIFORNIA

No claim is made to the name "California" apart from the mark.
FOR PREPARED FOOD PRODUCTS—NAMELY, OLIVE OIL, CANNED RIPE OLIVES AND GREEN OLIVES IN BARRELS AND IN GLASS JARS.
Claims use since Sept. 8, 1941.

Ser. No. 449,631. WEBB PACKING CO., INC., Lindsay and Los Angeles, Calif. Filed Dec. 19, 1941.

Cal-flavor

No claim is made to the word "Flavor" apart from the mark.
FOR FRESH CITRUS FRUIT.
Claims use since Nov. 21, 1941.

Ser. No. 449,726. MOR-PAK PRESERVING CORPORATION, San Francisco and Stockton, Calif. Filed Dec. 23, 1941.

PIE KING

No claim is made to the word "Pie" apart from the mark.
FOR CANNED FRUITS—NAMELY, CANNED PEACHES AND CANNED APRICOTS.
Claims use since July, 1933.

Ser. No. 451,175. HERSHEY CREAMERY COMPANY, Harrisburg, Pa. Filed Feb. 23, 1942.

BANJO

FOR ICE CREAM AND FROZEN CONFECTIONS.
Claims use since May 2, 1932.

Ser. No. 451,192. SNIVELY GROVES, INC., Winter Haven, Fla. Filed Feb. 24, 1942.

FULL SAIL

FOR FRESH CITRUS FRUITS.
Claims use since Oct. 23, 1936.

CLASS 47

WINES

Ser. No. 445,950. WALTER J. MULLIGAN, San Francisco, Calif. Filed Aug. 4, 1941.

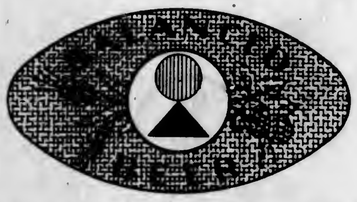
GLOBO

FOR VERMOUTH.
Claims use since Dec. 23, 1940.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 449,466. JACOB SCHMIDT BREWING CO., St Paul, Minn. Filed Dec. 13, 1941.



The word "Beer" is disclaimed apart from the mark.
FOR BEER.
Claims use since Nov. 1, 1941.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 426,167. MERCHANTS DISTILLING CORPORATION, Terre Haute, Ind. Filed Dec. 2, 1939.



FOR WHISKEY.
Claims use since February, 1935.

Ser. No. 449,714. THE BLACK PRINCE COMPANY, INC., Nutley, N. J. Filed Dec. 23, 1941.

Jamaica Shores

The word "Jamaica" is disclaimed apart from the mark.
FOR RUM.
Claims use since Oct. 14, 1939.

Ser. No. 449,715. THE BLACK PRINCE COMPANY, INC., Nutley, N. J. Filed Dec. 23, 1941.

La Zonga

FOR RUM.
Claims use since June 14, 1941.

Ser. No. 450,608. R. C. WILLIAMS & COMPANY, INC., New York, N. Y. Filed Jan. 30, 1942.

R·C·W Creme de Menthe

No claim is made to the words "Creme de Menthe" apart from the mark.
FOR LIQUEUR.
Claims use since Jan. 20, 1942.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 444,325. CATALIN CORPORATION, New York, N. Y. Filed June 9, 1941.

Catalin

FOR HARDENED PLASTIC MATERIAL IN THE FORM OF SHEETS, RODS, AND BLOCKS.
Claims use since May 28, 1941.

Ser. No. 449,345. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis. Filed Dec. 10, 1941.



All words except "Jamesway" are disclaimed apart from the mark.
FOR POULTRY EQUIPMENT—NAMELY, BATTERY BROODERS, LAYING CAGES, LAYING NESTS. AND WATERERS.
Claims use since Nov. 28, 1941.

Ser. No. 449,888. MILTON BRADLEY COMPANY, Springfield, Mass. Filed Dec. 31, 1941. Under section 5b of the act of 1905 as amended in 1920.

Bradley's

FOR LINOLEUM BLOCKS ADAPTED FOR THE APPLICATION OF DESIGNS THERETO, TO BE USED AS PRINTING PLATES.
Claims use since April, 1930.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

APRIL 14, 1942

394,527. FRESH APPLES. WISCONSIN ORCHARDS, INC., Madison and Gays Mills, Wis.
Filed December 19, 1938. Serial No. 414,020. PUBLISHED MARCH 11, 1941. Class 46.

394,528. PRESCRIPTIONS AND PHARMACEUTICALS—NAMELY, GLYCERINE, CASTOR OIL, FLUID EXTRACT OF CASCARA SAGRADA, WITCH HAZEL, ETC. BEAR DRUG COMPANY, Shawnee, Okla.
Filed October 25, 1939. Serial No. 424,862. PUBLISHED FEBRUARY 3, 1942. Class 6.

394,529. CANNED BONED, BARBECUED, AND READY CHOPPED CHICKEN. PATTERSON'S CANNERY, Enloe, Tex.
Filed April 9, 1940. Serial No. 430,559. PUBLISHED JULY 16, 1940. Class 46.

394,530. PISTONS. POWER PACK PISTON COMPANY, Chicago, Ill., assignor to Wilkening Manufacturing Co., Philadelphia, Pa., a corporation of Delaware.
Filed May 27, 1940. Serial No. 432,405. PUBLISHED APRIL 29, 1941. Class 23.

394,531. HYDRAULIC SHOCK ABSORBER COMPOUND. HYGRADE PRODUCTS COMPANY, INC., Long Island City, N. Y.
Filed June 13, 1940. Serial No. 433,043. PUBLISHED FEBRUARY 3, 1942. Class 6.

394,532. MARKSMANSHIP PRACTICE GAME AND THE VARIOUS APPARATUS THEREFOR. ROUTLEDGE MFG. CO., Monroe, Mich.
Filed September 27, 1940. Serial No. 436,444. PUBLISHED DECEMBER 10, 1940. Class 22.

394,533. EMULSION OF VITAMIN CONCENTRATE IN BUTTER FAT AND MILK FOR FOOD PURPOSES. GENERAL BIOCHEMICALS, INC., Chagrin Falls, Ohio.
Filed October 4, 1940. Serial No. 436,644. PUBLISHED DECEMBER 31, 1940. Class 46.

394,534. LADIES' AND MISSES' SHOES MADE OF LEATHER, CANVAS, FABRIC, OR COMPOSITIONS OR COMBINATIONS THEREOF. CARMO SHOE MANUFACTURING COMPANY, Carthage, Mo.
Filed October 19, 1940. Serial No. 437,083. PUBLISHED FEBRUARY 3, 1942. Class 39.

394,535. BATH BALM, LOTIONS, SKIN CREAMS, ASTRINGENTS, LIPSTICK, ROUGE, AND FACE POWDER. FLORENCE L. MARKEN, doing business as The Marken Co., Kansas City, Mo.
Filed November 15, 1940. Serial No. 437,903. PUBLISHED FEBRUARY 18, 1941. Class 6.

394,536. PERFUMES, TOILET WATER, COLOGNE, BRILLIANTINES, HAIR PREPARATIONS, FACE POWDERS, LIPSTICKS, NAIL PREPARATIONS, COSMETICS. SIDNEY HENRY, New York, N. Y.
Filed November 22, 1940. Serial No. 438,132. PUBLISHED JANUARY 27, 1942. Class 6.

394,537. MINERALS USED AS A FEED SUPPLEMENT FOR HOGS. WALNUT GROVE PRODUCTS COMPANY, Atlantic, Iowa.
Filed November 25, 1940. Serial No. 438,227. PUBLISHED FEBRUARY 3, 1942. Class 46.

394,538. NUTS, SPICES, AND CANDY IN PACKETS. GUSTO PRODUCTS, INCORPORATED, New Haven, Conn.
Filed December 11, 1940. Serial No. 438,734. PUBLISHED FEBRUARY 3, 1942. Class 46.

394,539. ELECTRICAL CONNECTORS. BURNDY ENGINEERING COMPANY, INC., New York, N. Y.
Filed December 23, 1940. Serial No. 439,144. PUBLISHED FEBRUARY 3, 1942. Class 21.

394,540. ELECTRICAL CONNECTORS. BURNDY ENGINEERING COMPANY, INC., New York, N. Y.
Filed December 23, 1940. Serial No. 439,145. PUBLISHED FEBRUARY 3, 1942. Class 21.

394,541. CHECK CONTROLLED, FLOW PREDETERMINING STOP MECHANISM FOR FLUID DISPENSING APPARATUS. S. F. BOWSER & COMPANY, INCORPORATED, Fort Wayne, Ind.
Filed January 17, 1941. Serial No. 439,745. PUBLISHED FEBRUARY 3, 1942. Class 26.

394,542. BODY DEODORANT. SELECT COSMETICS CO., Chicago, Ill.
Filed January 25, 1941. Serial No. 439,977. PUBLISHED FEBRUARY 3, 1942. Class 6.

394,543. INSECTICIDAL SPRAY FOR THE KILLING OF INSECTS. UNITED STATES RUBBER COMPANY, New York, N. Y.
Filed April 26, 1941. Serial No. 443,027. PUBLISHED JULY 1, 1941. Class 6.

394,544. JEWELRY AND PEARLS AND PEARL NECKLACES, FOR PERSONAL WEAR OR ADORNMENT. NOT INCLUDING WATCHES. RICHARD E. WEINREICH, doing business as Weinreich Brothers Co., New York, N. Y.
Filed May 24, 1941. Serial No. 443,900. PUBLISHED FEBRUARY 3, 1942. Class 28.

394,545. ANGLE COCKS, CUT-OUT COCKS, CHECK VALVES, DRAIN COCKS, HOSE COUPLINGS, PRESSURE REDUCING VALVES, PIPE FITTINGS, RETAINING VALVES, SAFETY VALVES, STEAM VALVES, STEAM GOVERNOR VALVES, AND TRIP COCKS. THE WESTINGHOUSE AIR BRAKE COMPANY, Wilmerding, Pa.
Filed May 31, 1941. Serial No. 444,110. PUBLISHED FEBRUARY 3, 1942. Class 13.

394,546. NATURAL MINERAL WATERS, NON-ALCOHOLIC MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND SYRUPS AND EXTRACTS FOR MAKING SOFT DRINKS. COMPANHIA ANTARCTICA PAULISTA, Sao Paulo, Brazil.
Filed July 7, 1941. Serial No. 445,124. PUBLISHED JANUARY 13, 1942. Class 45.

394,547. ELECTRICALLY HEATED PADS FOR THERAPEUTIC USE. CASCO PRODUCTS CORPORATION, doing business as Fortune Appliance Company, Bridgeport, Conn.
Filed July 12, 1941. Serial No. 445,284. PUBLISHED FEBRUARY 3, 1942. Class 44.

394,548. BATH SALTS AND BATH PREPARATIONS FOR THERAPEUTIC USES AND/OR FOR USE IN CONNECTION WITH ELECTRO BATHS. TECA CORPORATION, New York, N. Y.
Filed July 12, 1941. Serial No. 445,309. PUBLISHED SEPTEMBER 9, 1941. Class 6.

394,549. THERAPEUTIC ELECTRIC LAMPS. EMERALITE COMPANY, INC., New York, N. Y.
Filed July 18, 1941. Serial No. 445,461. PUBLISHED FEBRUARY 3, 1942. Class 44.

394,550. REMOTE CONTROL COIN BOX FOR ELECTRICALLY ACTUATED PHONOGRAPH. PACKARD MANUFACTURING CORPORATION, Indianapolis, Ind.
Filed July 28, 1941. Serial No. 445,698. PUBLISHED FEBRUARY 3, 1942. Class 21.

394,551. DISPLAY DEVICES FOR DISPLAYING OF INTERIORS AND EXTERIORS OF HOUSES IN MINIATURE FOR THE PURPOSE OF EVALUATING THE RELATIVE MERITS OF DIFFERENT COLOR COMBINATIONS. THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio.
Filed July 30, 1941. Serial No. 445,779. PUBLISHED FEBRUARY 3, 1942. Class 50.

394,552. COMPOUND OR COMPOSITION OF BODIED OITICICA OIL FOR USE IN PAINTS AND VARNISHES. THE SCIENTIFIC OIL COMPOUNDING CO., Chicago, Ill.
Filed July 30, 1941. Serial No. 445,783. PUBLISHED FEBRUARY 3, 1942. Class 16.

394,553. GERMICIDAL, ANALGESIC, HEMOSTATIC AGENT. MIZZY, INC., New York, N. Y.
Filed August 7, 1941. Serial No. 446,060. PUBLISHED NOVEMBER 18, 1941. Class 6.

394,554. PERFUMES, FACE POWDER, DEODORANTS, CREAMS, LOTIONS, MASCARA, LIPSTICKS, ROUGE, AND SHAMPOO. MAISON JEURELLE-SEVENTEEN, INC., New York, N. Y.
Filed August 25, 1941. Serial No. 446,524. PUBLISHED JANUARY 27, 1942. Class 6.

394,555. INTERIOR AND EXTERIOR COMMERCIAL AND INDUSTRIAL ELECTRICAL LIGHTING EQUIPMENT—NAMELY, STREET AND HIGHWAY LIGHTING EQUIPMENT, ETC. PHILADELPHIA ELECTRICAL AND MANUFACTURING COMPANY, Philadelphia, Pa.
Filed August 27, 1941. Serial No. 446,588. PUBLISHED FEBRUARY 3, 1942. Class 21.

394,556. CREAMERY BUTTER. THE TRINIDAD CREAMERY CO., Trinidad, Colo.; Clovis and Albuquerque, N. Mex.; Tucson, Ariz.; El Paso, Tex.; and Los Angeles, Calif.
Filed September 3, 1941. Serial No. 446,764. PUBLISHED FEBRUARY 3, 1942. Class 46.

394,557. HIGH SPEED STEEL. FIRTH-STERLING STEEL COMPANY, McKeesport, Pa.
Filed September 9, 1941. Serial No. 446,912. PUBLISHED FEBRUARY 3, 1942. Class 14.

394,558. GLASS MEASURES. KELLOGG COMPANY, Battle Creek, Mich.
Filed September 11, 1941. Serial No. 447,040. PUBLISHED FEBRUARY 3, 1942. Class 26.

394,559. COATING LACQUERS—NAMELY, LAYOUT DYES AND STOP-OFF LACQUERS, STOP-OFF LACQUER THINNERS. MICHIGAN CHROME & CHEMICAL CO., Detroit, Mich.
Filed September 22, 1941. Serial No. 447,242. PUBLISHED FEBRUARY 3, 1942. Class 16.

394,560. DELICATESSEN PAPER FOR WRAPPING GROUND MEATS, FISH, BUTTER, LARD, FRUITS, CHEESE, AND OTHER MOIST FOODS. HOSKIN PAPER COMPANY, Menominee, Mich.
Filed September 29, 1941. Serial No. 447,395. PUBLISHED FEBRUARY 3, 1942. Class 37.

394,561. PACKS OF CARBON PAPER. STANDARD MANIFOLD COMPANY, Chicago, Ill.
Filed October 1, 1941. Serial No. 447,470. PUBLISHED FEBRUARY 3, 1942. Class 11.

394,562. CLOCKS. THE E. INGRAHAM COMPANY, Bristol, Conn.
Filed October 3, 1941. Under 10-year proviso. Serial No. 447,512. PUBLISHED FEBRUARY 3, 1942. Class 27.

394,563. NATURAL PLUMOSUS. FLORIDA WHOLESALE FLORISTS, INC., Orlando, Fla.
Filed October 4, 1941. Serial No. 447,540. PUBLISHED FEBRUARY 3, 1942. Class 1.

394,564. IRON VITAMIN TONIC. THE CHATTANOOGA MEDICINE COMPANY, Chattanooga, Tenn.
Filed October 6, 1941. Serial No. 447,556. PUBLISHED FEBRUARY 3, 1942. Class 6.

394,565. IMITATION LEATHER. ASHER & BORETZ, INC., New York, N. Y.
Filed October 10, 1941. Serial No. 447,652. PUBLISHED FEBRUARY 3, 1942. Class 50.

394,566. MEN'S AND WOMEN'S HATS AND CAPS. CORNELIUS STACK, New York, N. Y.
Filed October 13, 1941. Serial No. 447,769. PUBLISHED FEBRUARY 3, 1942. Class 39.

394,567. ENERGIZING PREPARATIONS OR CHEMICALS TO BE ADDED TO FUELS. AUTOMOTIVE ECONOMY CORPORATION, Wilmington, Del., and New York, N. Y.
Filed October 17, 1941. Serial No. 447,860. PUBLISHED FEBRUARY 3, 1942. Class 6.

394,568. CIGARS. BAYUK CIGARS INCORPORATED, Philadelphia, Pa.
Filed October 17, 1941. Serial No. 447,861. PUBLISHED FEBRUARY 3, 1942. Class 17.

394,569. MEN'S FELT HATS, SPORTSWEAR—NAMELY, SLACKS, LEATHER JACKETS, CLOTH JACKETS, SPORTS COATS, SPORT SHIRTS, AND SWEATERS, LOUNGING ROBES AND BATH ROBES. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed October 20, 1941. Serial No. 447,938. PUBLISHED FEBRUARY 3, 1942. Class 39.

394,570. LADIES' BRASSIÈRES, CORSETS, NIGHTGOWNS, PAJAMAS, PANTIES, SLIPS, SHIRTWAISTS, AND BLOUSES. XANA INC., New York, N. Y.
Filed October 23, 1941. Serial No. 448,069. PUBLISHED FEBRUARY 3, 1942. Class 39.

394,571. WHEAT FLOUR. THE COLORADO MILLING & ELEVATOR CO., doing business as Springfield Flour Mills, Denver, Colo., and Springfield, Mo.
Filed October 24, 1941. Serial No. 448,074. PUBLISHED FEBRUARY 3, 1942. Class 46.

394,572. RAFFIA. MCHUTCHISON & CO., New York, N. Y.
Filed October 25, 1941. Serial No. 448,109. PUBLISHED FEBRUARY 3, 1942. Class 1.

394,573. RAFFIA. MCHUTCHISON & CO., New York, N. Y.
Filed October 25, 1941. Serial No. 448,110. PUBLISHED FEBRUARY 3, 1942. Class 1.

394,574. LEDGER AND BOND PAPERS. PARSONS PAPER COMPANY, Holyoke, Mass.
Filed October 27, 1941. Serial No. 448,165. PUBLISHED FEBRUARY 3, 1942. Class 37.

394,575. WOMEN'S AND MISSES' APPAREL—NAMELY, BATHING SUITS, SWIMMING SUITS, DRESSES, PLAY-SUITS, SWEATERS, SLACKS, ETC. COLE OF CALIFORNIA, INC., Los Angeles, Calif.
Filed October 28, 1941. Serial No. 448,187. PUBLISHED FEBRUARY 3, 1942. Class 39.

394,576. PLASTIC COMPOSITION IN SHEET FORM. JOSEPH M. GORDON, New York, N. Y., assignor to Eva Gordon, New York, N. Y.
Filed October 30, 1941. Serial No. 448,254. PUBLISHED FEBRUARY 3, 1942. Class 50.

394,577. AUTOMOTIVE PAINT FINISHES. OLD COLONY PAINT & CHEMICAL CO., Los Angeles, Calif.
Filed October 31, 1941. Serial No. 448,300. PUBLISHED FEBRUARY 3, 1942. Class 16.

394,578. LIQUID FLUSHING AND CLEANING COMPOUND FOR FLUSHING AND CLEANING MOTORS, ENGINES, GEARS AND GEARING, GEAR BOXES, AND CRANK CASES. THE WHITE & BAGLEY COMPANY, Worcester, Mass.
Filed October 31, 1941. Serial No. 448,310. PUBLISHED FEBRUARY 3, 1942. Class 6.

394,579. WOMEN'S SHOES MADE OF LEATHER, FABRIC, RUBBER, AND COMBINATIONS THEREOF. LANSBURGH & BRO., Washington, D. C.
Filed November 5, 1941. Serial No. 448,415. PUBLISHED FEBRUARY 3, 1942. Class 39.

394,580. HOSE SUPPORTERS. SARAH FRANCIS MORGAN, Jamaica, N. Y.
Filed November 5, 1941. Serial No. 448,418. PUBLISHED FEBRUARY 3, 1942. Class 39.

394,581. ALL KINDS OF SANDWICHES, SUCH AS MEAT SANDWICHES, EGG SANDWICHES, CHEESE SANDWICHES, AND SANDWICHES MADE FROM MEAT MIXTURES, IN COMBINATION WITH VARIOUS KINDS OF BREAD. JOSEPH LOCKWOOD BROWN, Columbia, S. C.
Filed November 8, 1941. Serial No. 448,468. PUBLISHED FEBRUARY 3, 1942. Class 46.

394,582. REFINED KAOLIN USED AS AN ABSORBENT CARRIER, A CLEANER AND FILTERING MATERIAL FOR CLEANING GARMENTS, ETC. SOUTHEASTERN CLAY COMPANY, Aiken, S. C.
Filed November 8, 1941. Serial No. 448,484. PUBLISHED FEBRUARY 3, 1942. Class 4.

394,583. PERFUME, TOILET WATER, HAIR LOTION, EAU DE COLOGNE, BRILLIANTINE, LAVENDER WATER, HAND LOTION, FACE LOTION, FACE POWDER, TALC POWDER, LIPSTICK, MASCARA, HAND CREAM, LEMON CREAM, CLEANSING CREAM, VANISHING CREAM. WALLY BLAUSTEIN, New York, N. Y.
Filed November 10, 1941. Serial No. 448,491. PUBLISHED FEBRUARY 3, 1942. Class 6.

394,584. ELECTRIC LIGHTING PROJECTORS AND ELECTRIC LIGHTING FIXTURES FOR STAGE, STORE, AND DISPLAY LIGHTING. CENTURY LIGHTING, INC., New York, N. Y.
Filed November 12, 1941. Serial No. 448,551. PUBLISHED FEBRUARY 3, 1942. Class 21.

394,585. PLATED AND UNPLATED TABLEWARE MADE OUT OF BASE METAL OR STAINLESS STEEL—NAMELY, SPOONS, KNIVES, AND FORKS, EXCLUDING, HOWEVER, SPOONS, KNIVES, AND FORKS, PLATED WITH SILVER OR OTHER PRECIOUS METALS. NATIONAL SILVER COMPANY, New York, N. Y.
Filed November 12, 1941. Serial No. 448,574. PUBLISHED FEBRUARY 3, 1942. Class 23.

394,586. PLATED AND UNPLATED TABLEWARE MADE OUT OF BASE METAL OR STAINLESS STEEL—NAMELY, SPOONS, KNIVES, AND FORKS, EXCLUDING, HOWEVER, SPOONS, KNIVES, AND FORKS, PLATED WITH SILVER OR OTHER PRECIOUS METALS. NATIONAL SILVER COMPANY, New York, N. Y.
Filed November 12, 1941. Serial No. 448,575. PUBLISHED FEBRUARY 3, 1942. Class 23.

394,587. CLEANING COMPOUND INTENDED PRIMARILY FOR THE CLEANING OF METAL SURFACES. TURCO PRODUCTS, INC., Los Angeles, Calif.
Filed November 12, 1941. Serial No. 448,593. PUBLISHED FEBRUARY 3, 1942. Class 4.

394,588. PIPE CLEANERS. CHARLES S. LEE, doing business as E. T. Gilbert Mfg. Co., Rochester, N. Y.
Filed November 13, 1941. Serial No. 448,616. PUBLISHED FEBRUARY 3, 1942. Class 8.

394,589. FOOD SUPPLEMENTS CONTAINING VARIOUS VITAMINS AND MINERALS INDICATED IN CASES OF VITAMIN-MINERAL DEFICIENCIES. SCIENTIFIC NUTRITION CORPORATION, Bloomfield, N. J.
Filed November 13, 1941. Serial No. 448,623. PUBLISHED FEBRUARY 3, 1942. Class 6.

394,590. WORK RETAINING CLAMPS, PARTICULARLY C-CLAMPS. GRAND SPECIALTIES COMPANY, Chicago, Ill.
Filed November 14, 1941. Serial No. 448,639. PUBLISHED FEBRUARY 3, 1942. Class 23.

394,591. LOTION, TOOTH POWDER, HAIR DRESS, TALCUM POWDER, AND COLOGNE. VANBERT LTD., Los Angeles, Calif.
Filed November 19, 1941. Serial No. 448,773. PUBLISHED FEBRUARY 3, 1942. Class 6.

394,592. PREPARED BREAKFAST CEREAL. THE QUAKER OATS COMPANY, Chicago, Ill.
Filed November 21, 1941. Serial No. 448,801. PUBLISHED FEBRUARY 3, 1942. Class 46.

394,593. ROLLED OATS. THE QUAKER OATS COMPANY, Chicago, Ill.
Filed November 21, 1941. Serial No. 448,802. PUBLISHED FEBRUARY 3, 1942. Class 46.

394,594. PLASTIC SHEETS SUITABLE FOR TRANSMITTING AND/OR DIFFUSING LIGHT. CELLULOID CORPORATION, Newark, N. J., assignor to Celanese Corporation of America, New York, N. Y., a corporation of Delaware.
Filed November 22, 1941. Serial No. 448,817. PUBLISHED FEBRUARY 3, 1942. Class 50.

394,595. PERFUMES AND TOILET WATER. CHARLES OF THE RITZ, INC., New York, N. Y.
Filed November 22, 1941. Serial No. 448,818. PUBLISHED FEBRUARY 3, 1942. Class 6.

394,596. ACID NEUTRALIZING ASTRINGENT AND HEMATINIC. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio.
Filed November 22, 1941. Serial No. 448,832. PUBLISHED FEBRUARY 3, 1942. Class 6.

394,597. LADIES' SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS OF THESE MATERIALS. I. MILLER & SONS, INC., Long Island City, N. Y.
Filed November 22, 1941. Serial No. 448,833. PUBLISHED FEBRUARY 3, 1942. Class 39.

394,598. FIELD, GARDEN, AND GRASS SEEDS. O. M. SCOTT & SONS COMPANY, Marysville, Ohio.
Filed November 24, 1941. Serial No. 448,875. PUBLISHED FEBRUARY 3, 1942. Class 1.

394,599. LAWN, TURF, AND GARDEN FERTILIZERS, GRASS AND PLANT FOODS AND FERTILIZERS. O. M. SCOTT & SONS COMPANY, Marysville, Ohio.
Filed November 24, 1941. Serial No. 448,876. PUBLISHED FEBRUARY 3, 1942. Class 10.

394,600. EGGS. SOUTHERN STATES MARKETING COOPERATIVE, INCORPORATED, Richmond, Va.
Filed November 24, 1941. Serial No. 448,878. PUBLISHED FEBRUARY 3, 1942. Class 46.

394,601. FINGER PADS, ELASTIC BANDS, ERASERS, FINGER COTS (STATIONERY). KAY RUBBER COMPANY, New York, N. Y.
Filed November 25, 1941. Serial No. 448,909. PUBLISHED FEBRUARY 3, 1942. Class 37.

394,602. PREPARATION FOR THE RELIEF OF OCCASIONAL CONSTIPATION. PARK DRUG CO. INC., New York, N. Y.
Filed November 25, 1941. Serial No. 448,921. PUBLISHED FEBRUARY 3, 1942. Class 6.

394,603. MEN'S, WOMEN'S, AND CHILDREN'S UNDERWEAR, MEN'S, WOMEN'S, AND CHILDREN'S SLEEPING GARMENTS — NAMELY, NIGHT GOWNS, PAJAMAS, BED JACKETS, NIGHT CAPS, AND ROBES, AND HOSIERY. VANITY FAIR SILK MILLS, Reading, Pa.
Filed November 25, 1941. Serial No. 448,927. PUBLISHED FEBRUARY 3, 1942. Class 39.

394,604. LEAD PENCILS. EBERHARD FABER PENCIL COMPANY, Brooklyn, N. Y.
Filed November 26, 1941. Serial No. 448,937. PUBLISHED FEBRUARY 3, 1942. Class 37.

394,605. SYNTHETIC RESIN DENTURE BASE MATERIALS. COSMOS DENTAL PRODUCTS, INC., New York, N. Y.
Filed November 27, 1941. Serial No. 448,964. PUBLISHED FEBRUARY 3, 1942. Class 44.

394,606. VITAMIN PREPARATIONS. MYKRON COMPANY, Chicago, Ill.
Filed November 27, 1941. Serial No. 448,979. PUBLISHED FEBRUARY 3, 1942. Class 6.

394,607. HAIR CONDITIONER. PEACOCK LABORATORIES, San Francisco, Calif.
Filed November 27, 1941. Serial No. 448,984. PUBLISHED FEBRUARY 3, 1942. Class 6.

394,608. COLOGNE, PERFUME, AND FACE, TALCUM, AND DUSTING POWDERS. SALLY VICTOR, INC., New York, N. Y.
Filed November 27, 1941. Serial No. 448,992. PUBLISHED FEBRUARY 3, 1942. Class 6.

394,609. CALCIUM DIPHOSPHATE PREPARATION CONTAINING VITAMINS, INTENDED FOR USE IN NUTRITIONAL DISTURBANCES. WILLIAM R. WARNER & CO., INC., New York, N. Y.
Filed November 27, 1941. Serial No. 448,994. PUBLISHED FEBRUARY 3, 1942. Class 6.

394,610. CALCIUM DIPHOSPHATE PREPARATION CONTAINING VITAMINS, INTENDED FOR USE IN NUTRITIONAL DISTURBANCES. WILLIAM R. WARNER & CO., INC., New York. N. Y.
Filed November 27, 1941. Serial No. 448,995. PUBLISHED FEBRUARY 3, 1942. Class 6.

394,611. JEWELRY CLIPS, EARRINGS, AND JEWELED HAIR ORNAMENTS. BOURJOIS, INC., New York, N. Y.
Filed November 28, 1941. Serial No. 448,998. PUBLISHED FEBRUARY 3, 1942. Class 28.

394,612. HANDKERCHIEFS AND EVENING HEADDRESSES. BOURJOIS, INC., New York, N. Y.
Filed November 28, 1941. Serial No. 448,999. PUBLISHED FEBRUARY 3, 1942. Class 39.

394,613. SOAPS. PARFUMS SCHIAPARELLI, INC., New York, N. Y.
Filed November 29, 1941. Serial No. 449,062. PUBLISHED FEBRUARY 3, 1942. Class 4.

394,614. MOTION PICTURE FILMS. WORLD PARADE, INC., New York, N. Y.
Filed December 1, 1941. Serial No. 449,089. PUBLISHED FEBRUARY 3, 1942. Class 26.

394,615. PERFUME. DAVID CRYSTAL INC., New York, N. Y.
Filed December 2, 1941. Serial No. 449,093. PUBLISHED JANUARY 27, 1942. Class 6.

394,616. REFINED EDIBLE VEGETABLE OILS. CUDAHY BROTHERS CO., Cudahy, Wis.
Filed December 3, 1941. Serial No. 449,130. PUBLISHED FEBRUARY 3, 1942. Class 46.

394,617. ELECTRICAL MACHINES, PARTICULARLY INDUCTION MOTORS. FAIRBANKS, MORSE & CO., Chicago, Ill.
Filed December 6, 1941. Serial No. 449,226. PUBLISHED FEBRUARY 3, 1942. Class 21.

394,618. ASSEMBLED RADIO RECEIVING SETS AND PARTS THEREOF. STROMBERG-CARLSON TELEPHONE MFG. CO., Rochester, N. Y.
Filed December 6, 1941. Serial No. 449,244. PUBLISHED FEBRUARY 3, 1942. Class 21.

394,619. GAME BOARD. JOE A. FREDRIKSSON, San Francisco, Calif.
Filed December 12, 1941. Serial No. 449,415. PUBLISHED FEBRUARY 3, 1942. Class 22.

394,620. COIN-CONTROLLED AMUSEMENT APPARATUS. THE EXHIBIT SUPPLY COMPANY, Chicago, Ill.
Filed December 22, 1941. Serial No. 449,674. PUBLISHED FEBRUARY 3, 1942. Class 22.

394,621. COIN-CONTROLLED AMUSEMENT APPARATUS. THE EXHIBIT SUPPLY COMPANY, Chicago, Ill.
Filed December 22, 1941. Serial No. 449,675. PUBLISHED FEBRUARY 3, 1942. Class 22.

394,622. COIN-CONTROLLED AMUSEMENT APPARATUS. THE EXHIBIT SUPPLY COMPANY, Chicago, Ill.
Filed December 22, 1941. Serial No. 449,677. PUBLISHED FEBRUARY 3, 1942. Class 22.

394,623. COIN-CONTROLLED AMUSEMENT APPARATUS. THE EXHIBIT SUPPLY COMPANY, Chicago, Ill.
Filed December 22, 1941. Serial No. 449,678. PUBLISHED FEBRUARY 3, 1942. Class 22.

394,624. COIN-CONTROLLED AMUSEMENT APPARATUS. THE EXHIBIT SUPPLY COMPANY, Chicago, Ill.
Filed December 22, 1941. Serial No. 449,679. PUBLISHED FEBRUARY 3, 1942. Class 22.

394,625. COIN-CONTROLLED AMUSEMENT APPARATUS. THE EXHIBIT SUPPLY COMPANY, Chicago, Ill.
Filed December 22, 1941. Serial No. 449,680. PUBLISHED FEBRUARY 3, 1942. Class 22.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

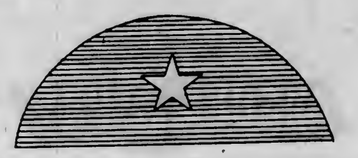
THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

394,626. (CLASS 39. CLOTHING.) THE NEATFORM CO., INC., New York, N. Y. Filed May 14, 1938. Serial No. 406,348.

"Feather-Lite"

FOR BRASSIÈRES, CORSETS, GIRDLES, REDUCING FOUNDATIONS, STEP-IN GIRDLES, AND COMBINATION CORSETS AND BRASSIÈRES.
Claims use since Apr. 15, 1938.

394,627. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Feb. 28, 1940. Serial No. 429,004.



Kleerbrite

FOR LIQUID USED FOR CLEANING GLASS.
Claims use since Aug. 16, 1938.

394,628. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KNOPP FORGE COMPANY, Chicago, Ill. Filed Apr. 29, 1940. Serial No. 431,263.

DIE-KAST

FOR STEEL DIES FOR USE BY MACHINE AND TOOL AND DIE MAKERS FOR VARIOUS AND SUNDRY DIES, ALSO PROCESSORS AND MANUFACTURERS OF THERMOPLASTICS AND SYNTHETIC COMPOSITION RUBBER AND DIE CASTING METAL CASTERS.
Claims use since Dec. 5, 1939.

394,629. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IDAHO FALLS WAREHOUSE COMPANY, doing business as Idaho Falls Bonded Warehouse Co., Idaho Falls, Idaho. Filed Nov. 22, 1940. Serial No. 438,137.

TESTED

FOR POTATOES IN THEIR NATURAL STATE.
Claims use since Dec. 30, 1936.

394,630. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE REYNOLDS PRESERVING COMPANY, Sturgeon Bay, Wis. Filed Dec. 9, 1940. Serial No. 438,666.

APL-FRESH
Pure Natural
APPLE JUICE

FOR PURE NATURAL APPLE JUICE FOR FOOD PURPOSES.
Claims use since Sept. 29, 1940.

394,631. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) AMERICAN SPECTACLE CO., INC., New York, N. Y. Filed Jan. 2, 1941. Serial No. 439,327.

ABSORB-O-RAY

FOR SPECTACLES AND GOGGLES AND LENSES THEREFOR.
Claims use since Nov. 12, 1940.

394,632. (CLASS 39. CLOTHING.) INTERWOVEN STOCKING COMPANY, New Brunswick, N. J. Filed Jan. 7, 1941. Serial No. 439,465.

Hy-Test

FOR HOSIERY.
Claims use since Dec. 30, 1940.

394,633. (CLASS 39. CLOTHING.) J. C. PENNEY COMPANY, New York, N. Y. Filed Jan. 17, 1941. Serial No. 439,762.

SAFE-T-FLAP

FOR OVERALLS, OVERALL JACKETS, WORK SUITS, AND WORK SHIRTS.
Claims use since Jan. 2, 1941.

394,634. (CLASS 39. CLOTHING.) MAY KNITTING CO. INC., New York, N. Y. Filed Jan. 23, 1941. Serial No. 439,903.

Hygienic + *Lisle*

FOR KNITTED UNDERWEAR FOR WOMEN AND GIRLS.
Claims use since July 31, 1939.

394,635. (CLASS 39. CLOTHING.) THE PRINTZ-BIEDERMAN COMPANY, Cleveland, Ohio. Filed Jan. 29, 1941. Serial No. 440,099.

TWEED-E-LUXE

FOR WOMEN'S AND MISSES' COATS AND SUITS.
Claims use since Dec. 10, 1940.

394,636. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. NORWOOD SMITH INC., New York, N. Y. Filed Jan. 30, 1941. Serial No. 440,135.

Shurmix

FOR SHORTENING MADE FROM VEGETABLE OIL AND USED FOR FRYING AND BAKING.
Claims use since Jan. 15, 1941.

394,637. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GENERAL PRINTING INK CORPORATION, New York, N. Y. Filed Feb. 3, 1941. Serial No. 440,243.

EVENSET

FOR DAMPENING ROLLER ASSEMBLY FOR LITHOGRAPHIC PRINTING PRESSES.
Claims use since Sept. 13, 1940.

394,638. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JULIUS D. BORST, doing business as The Kutsit Co., San Francisco, Calif. Filed Mar. 7, 1941. Serial No. 441,305.

KUTSIT

FOR MANUALLY OPERATED CUTTING DEVICE FOR PAPERS, FABRICS, AND LIKE MATERIALS.
Claims use since Dec. 9, 1940.

394,639. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHULTE, BAUJAN & Co., Beardstown, Ill. Filed Mar. 7, 1941. Serial No. 441,330.

MRS. BEARD'S BEST

FOR WHEAT FLOUR.
Claims use since Feb. 11, 1941.

394,640. (CLASS 39. CLOTHING.) GEORGE J. HECHT, doing business as Children's Products Company, New York, N. Y. Filed Mar. 20, 1941. Serial No. 441,734.

HI-SCHOOL BOARD *Fashions*

FOR CHILDREN'S SWEATERS, DRESSES, SUITS, COATS, HOUSECOATS, BLOUSES, PLAY SUITS, SLACKS, AND SKIRTS.
Claims use since Feb. 6, 1941.

394,641. (CLASS 39. CLOTHING.) LITT BROTHERS, New York, N. Y. Filed Mar. 20, 1941. Serial No. 441,736.

ORIGINAL
Kennedy
slenderizer

FOR WOMEN'S AND MISSES' DRESSES.
Claims use since Jan. 10, 1941.

394,642. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA OLIVE PACKERS, INCORPORATED, Corning, Calif. Filed Mar. 22, 1941. Serial No. 441,805.

RITE-GOOD

FOR CANNED OLIVES.
Claims use since Feb. 11, 1941.

394,642. (CLASS 32. FURNITURE AND UPHOLSTERY.) WILLIAM E. DEMME, doing business as Showrite Mfg. Company, Portland, Oreg. Filed Apr. 4, 1941. Serial No. 442,253.



FOR DISPLAY RACKS.
Claims use since June 1, 1937.

394,644. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ASSOCIATED SOY-BEAN CANNERS OF AMERICA, Hortonville, Wis. Filed Apr. 14, 1941. Under the act of March 19, 1920, as amended June 10, 1938. Serial No. 442,543.

SOY GOOD

FOR CANNED SOY BEANS.
Claims use since Oct. 1, 1940.

394,645. (CLASS 39. CLOTHING.) DANIEL KNITTING MILL, New York, N. Y. Filed May 23, 1941. Serial No. 443,837.

Drummond *Sportswear*

FOR MEN'S, WOMEN'S, BOYS', GIRLS', AND INFANTS' SWEATERS, DRESSES, AND JACKETS.
Claims use since Feb. 13, 1941.

394,646. (CLASS 39. CLOTHING.) GUDE'S INC., Los Angeles, Calif. Filed Aug. 29, 1941. Serial No. 446,653.

in the California manner

FOR WOMEN'S WEAR—NAMELY, COATS, SUITS, DRESSES, SLACKS, SLACK SUITS, JACKETS, SWEATERS, OUTER SKIRTS, BLOUSES, OUTER SHIRTS, HATS, SWIM SUITS, HOUSE COATS, HOSTESS GOWNS, AND SHOES MADE OF LEATHER AND FABRIC AND OF LEATHER, FABRIC AND RUBBER.
Claims use since Apr. 1, 1938.

394,647. (CLASS 39. CLOTHING.) ADLER MANUFACTURERS, INC., St. Louis, Mo. Filed Sept. 6, 1941. Serial No. 446,831.

Sue Terry

FOR WEARING APPAREL FOR LADIES, MISSES, AND JUNIORS—NAMELY, JACKETS, COATS, BLOUSES, DRESSES, AND SKIRTS.
Claims use since Feb. 15, 1940.

394,648. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) "DRI-GAS" FIRE EXTINGUISHER CO., Lake City, Fla. Filed Oct. 15, 1941. Serial No. 447,798.

"Dri-Gas"

FOR PORTABLE HAND FIRE EXTINGUISHER.
Claims use since October, 1938.

394,649. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) MABEL CUMBOW RUSKIN, Abingdon, Va. Filed Oct. 22, 1941. Serial No. 448,011.

Abingdon

FOR CERAMIC TABLE AND COOKING WARE, VASES, JARS, JUGS, JARDINIERES, CROCKS, CUSPIDORS, AND FLOWER POTS.
Claims use since January, 1936.

394,650. (CLASS 39. CLOTHING.) ROLLINS HOSIERY MILLS, INC., Des Moines, Iowa. Filed Dec. 15, 1941. Serial No. 449,501.

Rollins

FOR LADIES' HOSIERY, UNDERWEAR, SLIPS, PAJAMAS, AND NIGHTGOWNS.
Claims use since Jan. 2, 1931.

394,651. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) CASTLETON CHINA INCORPORATED, New York, N. Y. Filed Jan. 30, 1942. Serial No. 450,583.

CASTLETON CHINA

FOR CERAMIC TABLE-WARE.
Claims use since Sept. 6, 1940.

394,652. (CLASS 2. RECEPTACLES.) THE CONTAINER COMPANY, Van Wert, Ohio. Filed Feb. 18, 1942. Serial No. 451,047.

THE CONTAINER COMPANY

FOR FIBER SHIPPING DRUMS, FIBER BARRELS, AND FIBER SHIPPING CONTAINERS.
Claims use since April, 1916.

TRADE-MARK REGISTRATIONS RENEWED

20,906. **REPRESENTATION OF A BIRD AND LETTER S.** HOSIERY. Registered March 29, 1892. JOHN SMEDLEY, Lea Mills, near Derby, England. Re-renewed March 29, 1942, to John Smedley, Limited, Lea Mills, Lea Road, Cromford, near Matlock, England, a corporation of the United Kingdom of Great Britain and Northern Ireland, assignee.

21,106. **A.1.** COD LIVER OIL AND PREPARATIONS OF COD LIVER OIL. Registered May 10, 1892. SOUTHALL BROS. & BARCLAY, Birmingham, England. Re-renewed May 10, 1942, to Southall Bros. & Barclay (1935) Limited, West Smethwick, Birmingham, England, a corporation of the United Kingdom of Great Britain and Northern Ireland, successor.

21,676. **NUGGET.** LAUNDRY SOAP. Registered August 23, 1892. BENJAMIN BROOKE & COMPANY, Philadelphia, Pa. Re-renewed August 23, 1942, to Lever Brothers Company, Cambridge, Mass., a corporation of Maine, assignee.

144,356. **REDIPOINT.** MAGAZINE PENCILS. Registered July 5, 1921. BROWN & BIGELOW. Renewed July 5, 1941, to Brown & Bigelow, St. Paul, Minn., a corporation of Minnesota, successor.

148,979. **CALOROIL.** OIL-HEATERS. Registered December 6, 1921. AMERICAN OIL BURNER COMPANY, New York, N. Y. Renewed December 6, 1941, to The Silent Glow Oil Burner Corporation, Hartford, Conn., a corporation of Connecticut, successor.

150,308. **SAVORA.** A PREPARATION OF MUSTARD FORMING A RELISH CONDIMENT OR SAUCE. Registered January 3, 1922. J. & J. COLMAN, LIMITED, Norwich and London, England. Renewed January 3, 1942, to J. & J. Colman, Limited, Norwich, England, an English corporation.

150,309. **SAVORA BULL'S HEAD.** A PREPARATION OF MUSTARD FORMING A RELISH CONDIMENT OR SAUCE. Registered January 3, 1922. J. & J. COLMAN, LIMITED, Norwich and London, England. Renewed January 3, 1942, to J. & J. Colman, Limited, Norwich England, an English corporation.

150,762. **C. C. C.** SHIPPING DRUMS AND CONTAINERS USED FOR FOOD PRODUCTS, CHEMICALS, AND OTHER MATERIALS. Registered January 10, 1922. HERBERT L. CARPENTER, New York, N. Y. Renewed January 10, 1942, to Carpenter Container Corporation, Brooklyn, N. Y., a corporation of Delaware, assignee.

150,802. **EMPIRE.** WEAR PLATES FOR SHOES. Registered January 10, 1922. EMPIRE STAMPING TOOL & MFG. CO., St. Louis, Mo., a corporation of Missouri. Renewed January 10, 1942.

152,274. **ALUDUR.** FLUXES FOR SOLDERING AND WELDING. Registered February 21, 1922. SOCIÉTÉ ANONYME DES USINES GIULINI, Basel, Switzerland. Renewed February 21, 1942, to Aluminium Press- & Walzwerk Münchenstein A. G., Munchenstein, near Basel, Switzerland, a corporation of Switzerland, successor.

152,786. **AMERICAN BEAUTY.** LAUNDRY WASHING MACHINES. Registered March 7, 1922. GETZ POWER WASHER CO., Morton, Ill., a corporation of Illinois. Renewed March 7, 1942.

152,831. **THEDA.** BRACELETS. Registered March 7, 1922. IDEAL JEWELRY MANUFACTURING CO. INC. Renewed March 7, 1942, to Ideal Jewelry Manufacturing Company, Providence, R. I., a corporation of Rhode Island.

152,932. **CASCADE.** HOT WATER BOTTLES. Registered March 7, 1922. RICHARD PALMER. Renewed March 7, 1942, to Tyrrell's Hygienic Institute, Inc., New York, N. Y., a corporation of New York, assignee.

153,015. **EL CONSUELO.** CIGARS. Registered March 7, 1922. JOHN W. SURBRUG, INC., New York, N. Y., a corporation of New York. Renewed March 7, 1942.

153,131. **BUNNY BAG.** CLEANSING COMPOSITION FOR CLEANING SHOES, GLOVES, OR OTHER ARTICLES OF SKIN, LEATHER, OR TEXTILE FABRIC. Registered March 14, 1922. BUNNY PRODUCTS COMPANY. Renewed March 14, 1942, to Bunny Products Company, Incorporated, Port Huron, Mich., a corporation of Michigan, successor.

153,538. **AMERICAN MAID.** FEATHER PILLOWS. Registered March 21, 1922. STAR BEDDING CO. Renewed March 21, 1942, to Star Bedding Company, St. Louis, Mo., a corporation of Missouri, assignee.

153,907. **WILLAMETTE.** LOGGING ENGINES. Registered March 28, 1922. WILLAMETTE IRON AND STEEL WORKS. Renewed March 28, 1942, to Willamette Iron and Steel Corporation, Portland, Oreg., a corporation of Oregon, successor.

154,114 **"THE STEEL HEART OF PLASTER".** EXPANDED METAL LATH. Registered April 4, 1922. NORTHWESTERN EXPANDED METAL COMPANY. Renewed April 4, 1942, to United States Gypsum Company, Chicago, Ill., a corporation of Illinois, assignee.

154,566. **HIGH POINT.** HYDROGENATED VEGETABLE OIL. Registered April 18, 1922. HAUG & CO., INC., New York, N. Y., a corporation of New York. Renewed April 18, 1942.

154,622. **MAGGI'S.** SEASONINGS IN SOLID AND LIQUID FORM FOR IMPROVING SOUPS, SAUCES, GRAVIES, AND OTHER DISHES. Registered April 18, 1922. THE MAGGI CO., Kemptthal, Zurich, Switzerland. Renewed April 18, 1942, to Maggi Co., Inc., New York, N. Y., a corporation of New York, assignee.

154,954. **IDEAL.** SILK FISHING LINES. Registered May 16, 1922. B. F. GLADDING & COMPANY, INC., South Otselic, N. Y., a corporation of New York. Renewed May 16, 1942.

155,463. **KELLY KATS.** RESILIENT VEHICLE TIRES COMPOSED IN WHOLE OR IN PART OF RUBBER. Registered May 30, 1922. KELLY-SPRINGFIELD TIRE COMPANY, New York, N. Y. Renewed May 30, 1942, to The Kelly-Springfield Tire Company, Cumberland, Md., a corporation of Maryland, assignee.

156,016. **MURATTI.** CIGARETTES. Registered June 13, 1922. B. MURATTI SONS AND COMPANY LIMITED, Manchester, England. Renewed June 13, 1942, to The United Kingdom Tobacco Company, Limited, London, England, a corporation of the United Kingdom of Great Britain and Northern Ireland, assignee by mesne assignments.

156,426. **DIOCAIN.** LOCAL ANESTHETIC. Registered June 20, 1922. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland, a limited liability company of Switzerland. Renewed June 20, 1942.

156,427. **TOKOGEN.** OXYTOCIC. Registered June 20, 1922. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland, a limited liability company of Switzerland. Renewed June 20, 1942.

156,702. **BODY GLOVE.** CORSETS AND BRASSIÈRES. Registered July 11, 1922. FLORENCE E. LUND. Renewed July 11, 1942, to Retta S. Rineil, doing business as Retta H. Storrs, Chicago, Ill., assignee.

157,099. **GOODFORM.** TROUSERS, SKIRT, COAT, GOWN, AND SUIT HANGERS, SINGLY AND IN COMBINATION. Registered July 25, 1922. HINCHER MANUFACTURING COMPANY OF INDIANA, Washington, Ind., a corporation of Indiana. Renewed July 25, 1942.

157,107. **KENWOOD.** WOOLEN AND CANVAS CAMPING OR SLEEPING BAGS. Registered July 25, 1922. F. C. HUYCK & SONS, Albany, N. Y. Renewed July 25, 1942, to F. C. Huyck & Sons, Rensselaer and Albany, N. Y., a corporation of New York.

157,108. **KENWOOD.** WOOLEN AND CANVAS CAMPING OR SLEEPING BAGS. Registered July 25, 1922. F. C. HUYCK & SONS, Albany, N. Y. Renewed July 25, 1942, to F. C. Huyck & Sons, Rensselaer and Albany, N. Y., a corporation of New York.

157,144. **MASTER.** RUBBER BELTING AND RUBBER HOSE. Registered July 25, 1922. THE MANHATTAN RUBBER MFG. CO. Renewed July 25, 1942, to Raybestos-Manhattan, Inc., Passaic, N. J., a corporation of New Jersey, assignee.

157,211. **JUDGE.** CULINARY AND KITCHEN UTENSILS MADE OF METAL—NAMELY, PANS, KETTLES, POTS, BOWLS, DISHES, BATHTUBS, BASINS, TRAYS, AND PLATES. Registered July 25, 1922. ERNEST STEVENS LIMITED, Cradley Heath, England, an organized company of Great Britain. Renewed July 25, 1942.

157,568. **RB.** MEN'S CLOTHING FOR OUTER WEAR—NAMELY, MEN'S SUITS, OVERCOATS, RAIN COATS, TROUSERS, COATS, AND VESTS. Registered August 8, 1922. THE R. B. CLOTHING COMPANY, INC. Renewed August 8, 1942, to The Harold Clothing Company, Cincinnati, Ohio, a corporation of Ohio, successor.

157,670. **THE REDBANK.** MEN'S AND BOYS' OUTER WEARING NEGLIGEE AND WORK SHIRTS. Registered August 15, 1922. SIGMUND EISNER CO., Red Bank, N. J., a corporation of New Jersey. Renewed August 15, 1942.

157,699. **ARGYLE VERILITE.** SOAP. Registered August 15, 1922. H. KOHNSTAMM & CO., assignor to H. Kohnstamm & Co., Inc. Renewed August 15, 1942, to H. Kohnstamm & Co., Inc., New York, N. Y., a corporation of New York, assignee.

157,769. **THOMPSON'S SPA.** CANDY CONFECTIONS, PASTRIES, ROLLS, SALADS, TABLE BEVERAGES, CANNED FRUITS, AND OTHER FOODS. Registered August 15, 1922. THOMPSON'S SPA. Renewed August 15, 1942, to Thompson's Spa, Inc., Boston, Mass., a corporation of Massachusetts, assignee.

157,794. **KEY.** BREAD. Registered August 15, 1922. WARD BAKING COMPANY, New York, N. Y., a corporation of New York. Renewed August 15, 1942.

158,039. **SOLIDATED.** MILLING CUTTERS, REAMERS, COUNTERBORES, SPECIAL METAL-WORKING SMALL TOOLS MADE TO ORDER. Registered August 22, 1922. THE NATIONAL TOOL COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed August 22, 1942.

158,142. **REPRESENTATION OF A RED BAND ON A CARTON OF ORANGE COLOR.** LIQUID DISINFECTANTS, ANTISEPTICS, AND PURIFIERS. Registered August 22, 1922. WEST DISINFECTING COMPANY, New York, N. Y. Renewed August 22, 1942, to West Disinfecting Company, Long Island City, N. Y., a corporation of New York.

158,174. **BATES.** NUMBERING MACHINES. Registered August 29, 1922. THE BATES MANUFACTURING COMPANY, Orange, N. J. Renewed August 29, 1942, to The Bates Manufacturing Company, West Orange, N. J., a corporation of New Jersey.

158,245. **ALCO-TONE.** MASSAGE ALCOHOL. Registered August 29, 1922. LANGLEY & MICHAELS CO., San Francisco, Calif. Renewed August 29, 1942, to McKesson & Robbins, Incorporated, New York, N. Y., a corporation of Maryland, assignee by mesne assignments.

158,300. **ESSYEW.** PRINTING INKS. Registered August 29, 1922. SIGMUND ULLMAN CO. Renewed August 29, 1942, to General Printing Ink Corporation, New York, N. Y., a corporation of Delaware, assignee.

158,321. **W C CO INC.** CERTAIN NAMED MEDICINAL PREPARATIONS. Registered August 29, 1922. WINTHROP CHEMICAL COMPANY, INC. Renewed August 29, 1942, to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York, by consolidation.

158,325. **ZINCLOROS.** MOUTH WASH. Registered August 29, 1922. ZINCLOROS CHEMICAL COMPANY, Denver, Colo. Renewed August 29, 1942, to Park Drug Co., Inc., New York, N. Y., a corporation of New York, assignee.

158,456. **ELYSIAN.** READY-MIXED PAINTS, OIL PAINTS, COMBINATION WHITE LEAD, PAINT ENAMELS, ARTISTS' COLORS. Registered September 5, 1922. HOBOKEN WHITE LEAD & COLOR WORKS, INC., Hoboken, N. J., a corporation of New Jersey. Renewed September 5, 1942.

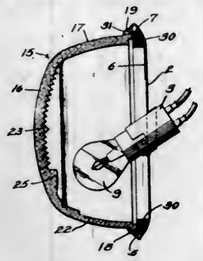
158,477. **EA.** ELECTRICAL WARNING SIGNALS—NAMELY, LAMPS, HORNS, AND STOP SIGNALS FOR MOTOR VEHICLES. Registered September 5, 1922. E. A. LABORATORIES, INC., Brooklyn, N. Y., a corporation of New York. Renewed September 5, 1942.

158,516. **P & H.** CIGARS. Registered September 5, 1922. PATTERSON AND HOFFMAN. Renewed September 5, 1942, to Patterson & Hoffman, Oklahoma City, Okla., a corporation of Oklahoma.

REISSUES

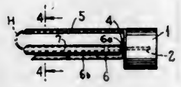
APRIL 14, 1942

22,066
STOP AND TAIL LAMP
Samuel M. Dover, Chicago, Ill.
Original No. 2,113,553, dated April 5, 1938, Serial No. 105,665, October 15, 1936. Application for reissue April 8, 1940, Serial No. 328,556
8 Claims. (Cl. 177—329)



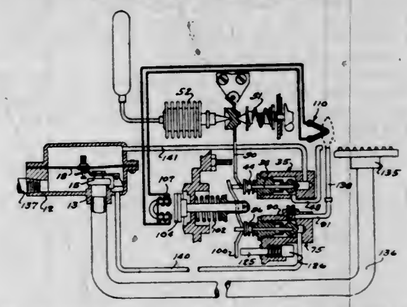
1. An automobile lamp casing comprising a unitary single layer cup shaped glass body having a signal portion at the part of the casing which faces rearwardly of the automobile, said rearwardly facing signal portion being of red glass throughout the entire thickness of the red rearwardly facing signal portion, the side wall of the cup being also of red glass of the same color as that of the signal portion but having a portion of glass substantially clearer than said signal portion, said clearer portion being embraced by the red glass and located substantially entirely outside of the line of direct normal vision to said lamp as viewed by a pedestrian at the rear of the automobile, said red signal portion and said clearer portion being one integral piece of glass, and a light concentrating portion formed in said rearwardly facing signal portion of the glass body.

22,067
HAIR CURLING DEVICE AND METHOD OF CURLING HAIR
Samuel Freeman, New York, N. Y., assignor to William Finkelstein, New York, N. Y.
Original No. 2,039,789, dated May 5, 1936, Serial No. 45,754, October 19, 1935. Application for reissue September 8, 1936, Serial No. 99,884
11 Claims. (Cl. 132—33)



11. A method of curling a lock of hair, which consists in first connecting a hair pin which has a pair of shanks joined to each other at a closed end of said hair pin, detachably to turnable hair-curling means at an end of said hair-curling means so that the closed end of said hair pin extends longitudinally beyond the adjacent end of said hair-curling means and the shanks of the hair pin are spaced from each other, then operating said hair-curling means so as to spirally wind said lock of hair on said hair-curling means to form a curl while said hair pin is held on said hair-curling means in fixed longitudinal relation to said curl of hair and without turning, and then removing said curl and said hair pin from said hair-curling means while clamping said curl of hair between the shanks of said hair pin and inwardly of the free ends of said shanks.

22,068
FUEL BURNER CONTROL SYSTEM
Frederick D. Joesting, Chicago, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Original No. 2,118,886, dated May 31, 1938, Serial No. 87,716, June 27, 1936. Application for reissue May 29, 1940, Serial No. 337,930
27 Claims. (Cl. 236—1)

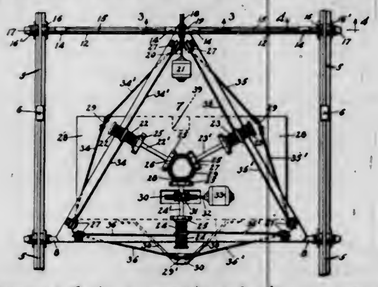


24. In combination, a valve, an electromagnet, an armature movable into and out of engagement with said electromagnet, said electromagnet being capable of holding but incapable of moving said armature into engagement therewith, a single biasing means acting to move said armature away from said electromagnet and said valve to a predetermined position, a reset member operable when moved from a normal position to a reset position to move said armature into engagement with said electromagnet, and means operated by said resetting member for maintaining said valve in said predetermined position while said reset member is in said reset position.

22,069
MEANS FOR SUSPENDING AND MOVING A PLATFORM OR THE LIKE
Arthur L. Medenwald, Los Angeles, Calif., assignor, by mesne assignments, to The Cleveland Crane & Engineering Company, Wickliffe, Ohio, a corporation of Ohio
Original No. 2,164,128, dated June 27, 1939, Serial No. 201,283, April 11, 1938. Application for reissue April 19, 1941, Serial No. 389,480
16 Claims. (Cl. 304—9)

1. In combination with a supporting structure having travel ways, and a movable structure mounted thereon to travel on said ways, a work platform suspended from said movable structure by cables, said cables running from three operating drums triangularly positioned on said structure, with means for simultaneously operating the same to take up and let out said cables, said cables being angularly extended inwardly to three triangularly positioned attaching members on said work platform below, where-

by said cables operate as combination suspension and guy-wire cables to raise and lower said work



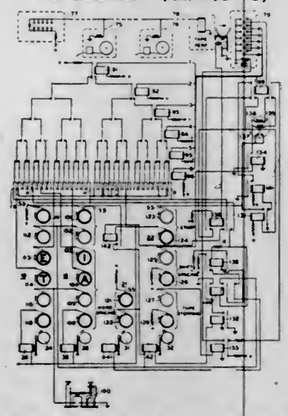
platform and to prevent swinging movement thereof.

22,070
TELEGRAPH SYSTEM AND APPARATUS

Percy L. Myer, Caldwell, and Evan R. Wheeler, Plainfield, N. J., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York

Original No. 2,187,360, dated January 16, 1940, Serial No. 67,548, March 6, 1936. Application for reissue September 27, 1941, Serial No. 412,688

26 Claims. (Cl. 178—3)



1. A telegraph system comprising a transmitting circuit, means for transmitting equal-length permutation character code signals over said circuit, means connected to said circuit for storing said signals, a second transmitting circuit and means including said storing means for repeating the signals in the form of unequal-length code signals over said second circuit with unequal spacing between characters and words.

22,071
PROCESS OF NORMALIZING HOT PRESSED PLYWOOD

James V. Nevin, Aberdeen, Wash.

No Drawing. Original No. 2,150,841, dated March 14, 1939, Serial No. 199,585, April 2, 1938. Application for reissue July 31, 1940, Serial No. 348,921

7 Claims. (Cl. 21—9)

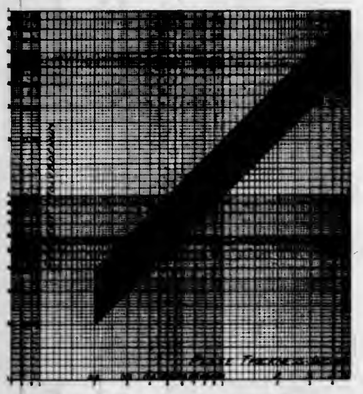
7. The method of normalizing hot pressed plywood panels composed of a plurality of bonded-together wood plies with adjoining plies having the grains thereof running at an angle to each other which comprises surrounding the panels while still in a heated condition from the hot pressing operation with a humid atmosphere, maintaining contact between said panels at an elevated temperature and said humid atmosphere until the panels absorb an appreciable amount of moisture, and cooling said panels before removing the same from said atmosphere.

22,072
ALLOY STEEL

Luciano G. Selmi, Detroit, and Clarence L. Altenburger, Dearborn, Mich., assignors to Great Lakes Steel Corporation, Ecorse, Mich., a corporation of Delaware

Original No. 2,234,130, dated March 4, 1941, Serial No. 345,227, July 12, 1940. Application for reissue February 2, 1942, Serial No. 429,344

3 Claims. (Cl. 75—128)



1. A low alloy, high tensile steel having properties of welding by commercial processes, deep drawing, high fatigue resistance and freedom from strain or quench aging, containing 0.05% to 0.25% carbon, 0.50% to 0.75% manganese, 0.70% to 0.90% silicon, 0.50% to 0.75% chromium, 0.10% to 0.15% zirconium, phosphorus 0.03% maximum, sulphur 0.03% maximum, from a trace of nickel up of 0.25%, 0.02% to 0.50% molybdenum, and all the remainder being iron and incidental impurities.

22,073
HARD METAL TOOL ALLOY

Paul Schwarzkopf, Yonkers, N. Y., assignor to American Cutting Alloys, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Original No. 2,170,432, dated August 22, 1939, Serial No. 155,919, July 27, 1937. Reissue No. 21,730, dated February 25, 1941, Serial No. 351,638, August 6, 1940. This application for reissue August 19, 1941, Serial No. 407,505. In Germany May 16, 1929

11 Claims. (Cl. 75—136)

1. A tough cemented hard metal sintered by heat treatment and consisting substantially of auxiliary metal selected essentially from the iron group in amounts from about 3% to 22% and two carbides of different elements other than carbon selected from the third, fourth, fifth and sixth group of the periodic system, said carbides containing together substantially more than 2.6% carbon and being present in finely divided state, said carbides heat treated to form solid solutions in substantial amount.

22,074
METHOD OF PRODUCING A HARD METAL ALLOY

Paul Schwarzkopf, Yonkers, N. Y., assignor to American Cutting Alloys, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Original No. 2,170,433, dated August 22, 1939, Serial No. 164,166, September 16, 1937. Reissue No. 21,731, dated February 25, 1941, Serial No. 351,639, August 6, 1940. This application for reissue August 19, 1941, Serial No. 407,506. In Germany May 16, 1929

8 Claims. (Cl. 75—137)

1. In a method of producing a hard metal alloy, in particular for tool elements and other working appliances, the steps of comminuting as finely as possible at least two hard carbides of different elements other than carbon selected from the third through sixth group of the periodic system, admixing said comminuted carbide in substantial amounts, including a minimum of 1% of a selected carbide, with auxiliary metal essentially of the iron group in amounts of about 3% to 22%, shaping said mixture and finally alloying it by sintering into a hard and tough body and until solid solutions of said selected carbides are formed therein in substantial amount.

PLANT PATENTS

GRANTED APRIL 14, 1942

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

508
ROSE PLANT

Herbert C. Swim, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif., a corporation of California

Application October 14, 1941, Serial No. 414,959

1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant, characterized as to novelty by its vigorous climbing habit of growth, its increased floriferousness and remontant habit in comparison with its parent, and the large size and increased petalage flowers, substantially as shown and described.

509
GRAPE

Ernest Magnone, Sanger, Calif.

Application July 21, 1941, Serial No. 403,349

1 Claim. (Cl. 47—62)

The new variety of grapes described, having as its main features, a berry of the muscat type of flavor, ripening very early in the season, of good keeping qualities, and prolific in bearing.

PATENTS

GRANTED APRIL 14, 1942

2,279,291
ISOMERIZING HYDROCARBONS
Harry A. Cheney, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application April 22, 1941, Serial No. 389,771
15 Claims. (Cl. 260—676)

10. A process for isomerizing saturated hydrocarbons which comprises contacting an isomerizable saturated hydrocarbon under isomerizing conditions with a fluid melt comprising a molecular excess of an aluminum halide and a halide of an alkali metal promoted by an activating amount of a halide of an element selected from the group consisting of sulfur, selenium and tellurium, whereby isomerization is effected as the primary reaction.

2,279,292
ISOMERIZING HYDROCARBONS
Harry A. Cheney, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application April 28, 1941, Serial No. 390,751
10 Claims. (Cl. 260—676)

8. A process for isomerizing saturated hydrocarbons which comprises contacting an isomerizable saturated hydrocarbon under isomerizing conditions with a fluid melt comprising a molecular excess of an aluminum halide and a halide of an alkali metal promoted by an activating amount of a halide of a metal selected from the metals of the first transition series of the elements included in group VIII of the periodic table, whereby isomerization is effected as the primary reaction.

2,279,293
COPOLYMERS OF BUTADIENES WITH UNSATURATED ALCOHOL ESTERS OF ACRYLIC ACIDS
Albert M. Clifford, Stow, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 31, 1938, Serial No. 199,184
5 Claims. (Cl. 260—84)

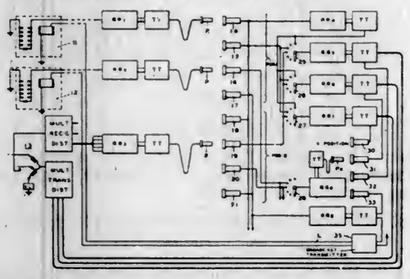
1. Polymerization products substantially identical with those obtained by polymerizing a butadiene with an acrylic acid ester of an unsaturated aliphatic alcohol at a temperature between room temperature and 80° C.

2,279,294
POLYALKYLENE POLYAMINES
Albert F. Hardman, Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 24, 1940, Serial No. 331,383
11 Claims. (Cl. 260—563)

1. A process which comprises reacting o-methylcyclohexylamine, N, N'-di(o-methylcyclohexyl) ethylene diamine and an ethylene dihalide with attendant splitting out of hydrogen halide.

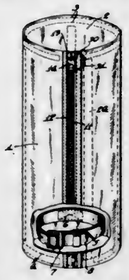
2. A process for preparing polyalkylene polyamines which comprises reacting, with the elimination of hydrogen halide, a primary amine, an alkylene diamine in which the amino groups are secondary amino and an alkylene dihalide.

2,279,295
TELEGRAPH EXCHANGE SYSTEM
William B. Blanton, Merrick, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application October 14, 1939, Serial No. 299,408
25 Claims. (Cl. 178—2)



1. In a telegraph exchange system, incoming and outgoing lines, switching means for enabling transmission from any one of said incoming lines to any selected one of said outgoing lines over alternative routes and means whereby message signals transmitted over one route to an outgoing line invariably take precedence over concurrent message signals transmitted over the alternative route to said outgoing line.

2,279,296
PROTECTIVE SLEEVE FOR CHILDREN
Harry Bresnick and Esther S. Bresnick, New York, N. Y.
Application January 19, 1940, Serial No. 314,728
1 Claim. (Cl. 128—133)



In a device of the class described, a flexible sheet of material provided with separable slide fastener elements upon opposite edges thereof adapted to form a sleeve surrounding the arm of a wearer above and below the elbow, reenforcements extending longitudinally of the sheet above and below the elbow and impeding the bending of the arm at the elbow, an inelastic strap attached on the inside of said flexible sheet and set inwardly of the distal edge of the sleeve;

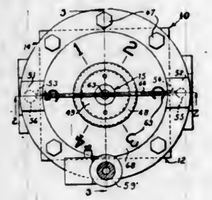
the inside measurement of the sleeve proximate to the hand being less than the inside measurement of the sleeve at the forearm.

2,279,297
KNOP YARN AND METHOD OF MAKING THE SAME
Edwin Bry, Elberon, N. J., assignor to Edwin & Louis Bry, Inc., New York, N. Y., a corporation of New York
Application November 13, 1940, Serial No. 365,400
5 Claims. (Cl. 57—144)



1. A novelty yarn comprising a multiplicity of threads of decorative material twisted about each other, a multiplicity of knops formed from each thread of decorative material, at least two knops formed from the same decorative material being positioned adjacent one another.

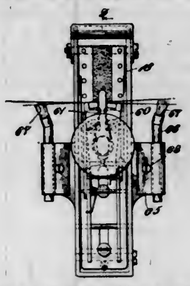
2,279,298
VALVE
Harry J. McCombs Burdick, Anaheim, Calif.
Original application August 6, 1938, Serial No. 223,480, now Patent No. 2,219,761, dated October 29, 1940. Divided and this application September 30, 1940, Serial No. 358,972
3 Claims. (Cl. 137—139)



1. In a fluid control device, a cylinder having a valve member at one end, said valve member being open to said cylinder and including an inlet and an outlet with a valve seat therebetween, a piston in said cylinder and having a valve thereon movable with the piston to engage said seat, a member on said cylinder and having a tapered aperture therein, a plug rotatable in said aperture, said plug having an axial conduit leading from the bottom thereof and terminating short of the top thereof, said plug having a plurality of radial coplanar conduits extending from the outer surface thereof and communicating with said axial conduit, a conduit communicating with the lower end of said cylinder and opening into said tapered aperture adjacent to said radial conuits, said member having a bleed conduit leading from said tapered aperture to the atmosphere, said plug having a radial aperture communicating with the axial aperture in said plug and in alignment with said bleed aperture.

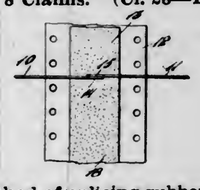
2,279,299
SPLICER FOR RUBBER THREAD
John F. Cavanagh, Providence, R. I.
Application November 5, 1940, Serial No. 364,405
11 Claims. (Cl. 28—1)

1. In a splicer, a carrier for a thin film of material, a film carried thereby, mechanical means for holding a pair of thread end portions in predetermined overlapped relation and moving the same into engagement with said film, said means being mounted for sliding movement to wrap the



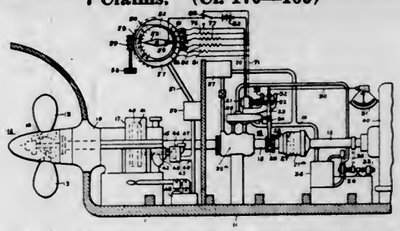
film about the end portions when moved into engagement therewith.

2,279,300
METHOD OF SPLICING RUBBER THREAD
John F. Cavanagh, Providence, R. I.
Application October 16, 1941, Serial No. 415,271
8 Claims. (Cl. 28—1)



2. The method of splicing rubber thread which consists in wrapping a thin film of rubber about the adjacent end portions of the thread, while maintaining the wrapping the same film shape at the end of the wrapping as at the beginning of the wrapping.

2,279,301
VARIABLE PITCH PROPELLER CONTROL
George A. Colley, Newton Centre, and John Hays Hammond, Jr., Gloucester, Mass.; said Colley assignor to said Hammond, Jr.
Application September 28, 1938, Serial No. 232,048
7 Claims. (Cl. 170—163)

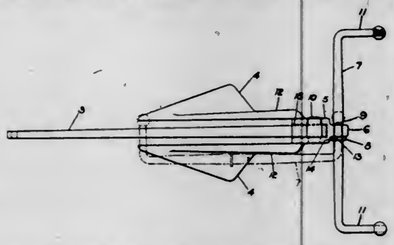


1. In a system for driving a vessel, a propeller having blades, means controlling the pitch of said blades, a thrust bearing for said propeller, means responsive to changes in thrust applied at said bearing, and means actuating said control means in response to changes in said thrust responsive means so as to vary the pitch of said blades in a manner to maintain said thrust constant.

2,279,302
ANCHOR
Edward C. Craig, United States Navy
Application June 17, 1940, Serial No. 340,937
1 Claim. (Cl. 114—208)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

An anchor comprising a shank, a fluke assem-

bly and a stock, said fluke assembly comprising a slotted crown, a pair of arms rigidly secured to said crown and extending substantially parallel to each other, each of said arms terminating in a fluke, means securing one end of said shank for pivotal movement within said slotted crown about an axis normal to the longitudinal axis of said shank, means securing said stock to said crown for sliding movement therethrough along a line parallel to the axis of said pivotal movement of said shank with respect to said crown, said stock being formed with both its



ends bent to lie in the same plane and extend in a direction substantially normal to its length, and means operable at will to hold said stock against sliding movement with its mid-point located within said crown and to hold said stock against rotation with respect to said crown with its bent ends extending in a direction opposite to said arms, said stock when said holding means are rendered inoperative, being slidable through said crown to a folded position in which its central portion lies alongside said shank for purposes of stowage.

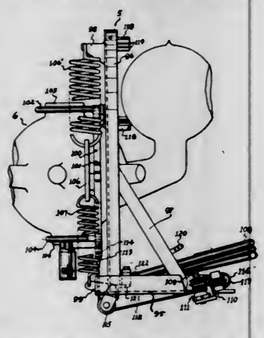
2,279,303

ELECTRICAL APPARATUS

Prescott D. Crout, Belmont, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Original application September 6, 1934, Serial No. 742,913, now Patent No. 2,171,512, dated August 29, 1939. Divided and this application July 19, 1939, Serial No. 285,465

5 Claims. (Cl. 248—358)



1. A support for an electrical space discharge tube comprising a rigid supporting frame, an auxiliary supporting means for supporting said tube, springs interposed between said auxiliary supporting means and said frame for resiliently supporting said auxiliary supporting means, an inertia wheel rotatably mounted with respect to said supporting frame, a pulley fixed to said inertia wheel, a cable attached at one end to said auxiliary supporting means and having at least one complete turn around said pulley, and a tension spring connected to the other end of said cable.

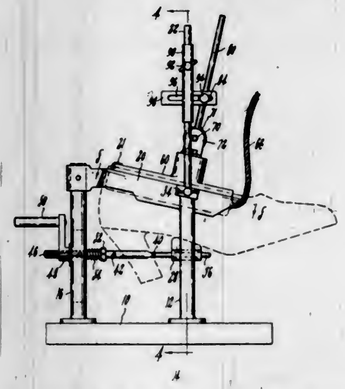
2,279,304

METHOD OF AND APPARATUS FOR RESHAPING SHOES

Frank De Curtis, Queens Village, and Felix De Vito, Brooklyn, N. Y.

Application October 1, 1940, Serial No. 359,206

6 Claims. (Cl. 12—51)



1. A method of shrinking and re-shaping the quarters of a shoe, which comprises gathering and crowding the upper margins of said quarters by inwardly directed pressure against the outer surface thereof while the inner surfaces are unsupported, thereafter applying heat and outward pressure against the inner surface of said upper margins, and rigidly supporting the outer surfaces of said upper margins while said outward pressure is applied.

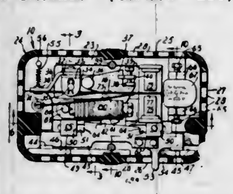
2,279,305

THERMOSTAT

George Forrest Drake, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois

Application January 17, 1938, Serial No. 185,388

9 Claims. (Cl. 200—139)



1. A thermostat adapted to be mounted on the wall of a room and having a horizontally extending contact carrying element movable vertically in response to ambient temperature changes, a contact cooperating with the contact of said element, a housing enclosing said element and apertured for the circulation of air therearound, a closure within said housing around said contacts and one end portion of said element, and means within said housing operable to prevent dust particles settling on said element exteriorly of the housing from creeping along the element and onto the active surfaces of said contacts.

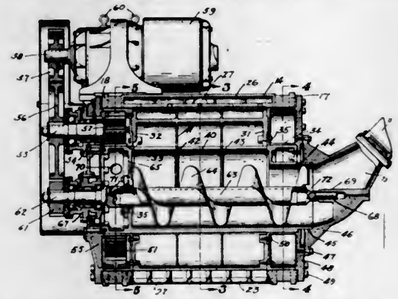
2,279,306

PNEUMATIC CONVEYING MEANS

John Joseph Ferlin, Los Angeles, Calif., assignor, by direct and mesne assignments, to Ed Westberg and Louis L. Swarthe, trustees

Application August 4, 1940, Serial No. 351,318

8 Claims. (Cl. 302—17)



1. A portable pneumatic conveying device comprising an outer housing, which has an opening in its lower side, said housing being adapted to rest upon comminuted material to be conveyed, whereby the material may pass through the opening, a chamber within said housing having an open throat in its upper side, gathering means for gathering the material passing through the opening in the housing and delivering it to said throat whereby it may be discharged into the chamber, a connection to said chamber for delivering air under pressure, and a conduit leading from the chamber and through which the material which has been delivered thereto may be conveyed by the air under pressure.

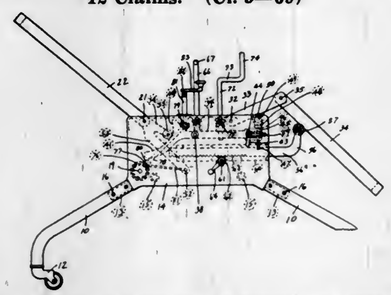
2,279,307

POSTURE BED STRUCTURE

Robert R. Freund, Mount Carmel, Ill.

Application March 29, 1939, Serial No. 264,766

12 Claims. (Cl. 5—69)



1. The combination with a supporting base and an articulated bed structure including at least three tiltable bed forming sections, two of the sections having adjacent end to end pivotal connection, of means for tilting one end section, adjustable means operatively supporting the opposite end section and remote from its pivotal connection to the intermediate movable section, the operative support engagement being such that the said other end section may be coplanar with the first mentioned end section when the latter is not tilted and permitting relative movement between the adjustable means and the second mentioned end section in the tilting movement of the intermediate section, and means operatively connecting the first mentioned end section and the intermediate movable section for movement of the latter simultaneously with the movement of the former.

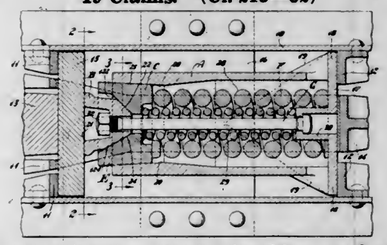
2,279,308

FRICTION SHOCK ABSORBING MECHANISM

Henry Fuchs, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware

Application February 24, 1941, Serial No. 380,386

19 Claims. (Cl. 213—32)



1. In a friction shock absorbing mechanism, the combination with a friction shell; of a pressure transmitting wedge member; a plurality of friction shoes, consisting of more than two, surrounding said wedge member and having frictional sliding engagement with the interior of the shell, said wedge and each of said shoes having a cooperating pair of engaging wedge faces, the cooperating pair of wedge faces of each shoe and the wedge being inclined at an angle to the longitudinal central axis of the mechanism different from the angle of the cooperating faces of the wedge and each of the remaining shoes; and a spring resistance opposing inward movement of the shoes with respect to the shell.

2,279,309

MATERIAL FOR PRODUCING PHOTOGRAPHIC MULTICOLOR IMAGES

Bela Gaspar, Hollywood, Calif., assignor to Chromogen, Incorporated, a corporation of Nevada

No Drawing. Application June 30, 1939, Serial No. 282,324. In Germany July 11, 1938

3 Claims. (Cl. 95—2)

2. A master image for the production of separate prints comprising three differently colored image records in superposition on a single support, one image record being formed of a dye predominantly absorbent for light of a wavelength shorter than 450 $\mu\mu$, another image record being formed of a dye predominantly absorbent for infra-red light but substantially transmittant for visible light, the third image record being formed of a dye which is absorbent for light rays of the visible spectrum chiefly transmitted by both of the first mentioned dyes and which is substantially transmittant for light rays predominantly absorbed by said first mentioned dyes.

2,279,310

QUICK-CHANGE TOOLHOLDER

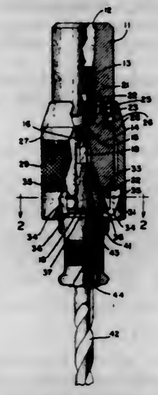
Victor Grey, Chicago, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware

Application May 4, 1939, Serial No. 271,629

6 Claims. (Cl. 279—78)

1. A chuck comprising in combination, a member to be secured to the rotatable spindle of a machining tool, a portion integrally associated with said member providing a conical recess and a polygonal recess coaxially thereof, a tool shank

member integrally associated with a tool comprising a conical portion corresponding in shape to said conical recess and a polygonal portion corresponding in shape to said polygonal recess, retaining elements carried on said first mentioned member having inclined surfaces to co-operate with



corresponding inclined surfaces on said tool shank member, and freely rotatable means associated with said tool shank member for holding said took shank member manually while presenting it into said conical and polygonal recesses of said first mentioned member during the latter's rotation.

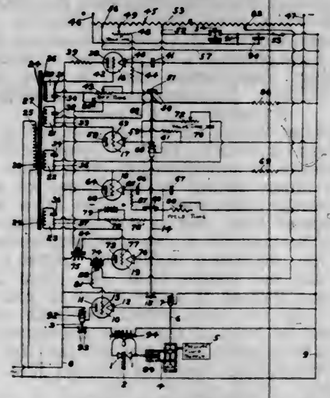
2,279,311

ELECTRON TUBE TIMING DEVICE

Fritz A. Gross, Watertown, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Application December 19, 1939, Serial No. 310,035

17 Claims. (Cl. 250—27)



14. In combination, a series of electrical space discharge devices of the controlled ignition type, means for impressing a voltage on each of said discharge devices, means responsive to the starting of conduction in the first of said discharge devices for creating a chain of impulses for producing successive starting of the rest of said discharge devices, means for stopping conduction in the last of said discharge devices at a predetermined time after the start of conduction therein, and means responsive to the stopping of conduction in said last discharge device for stopping conduction in said first discharge device.

2,279,312

METHOD OF PRODUCING MODIFIED UREA-ALDEHYDE RESINS

Samuel S. Gutkin, Carnegie, Pa., assignor to Falk & Company, a corporation of Pennsylvania

No Drawing. Application February 25, 1938, Serial No. 192,578

5 Claims. (Cl. 260—18)

1. The herein described method of producing a modified urea-aldehyde resin suitable for use in coatings by following the sequential steps of preparing a urea-aldehyde condensate by reacting urea and aldehyde in the approximate proportion of 1 mol. of urea to 2 mols. of aldehyde at low temperature not substantially exceeding 100° F., while the urea-aldehyde condensate is still ungelled and of an alcoholic nature adding a polyhydric alcohol and then after heating to a temperature of about 320° F. adding a polybasic carboxylic acid, the proportioning of the additions to each other and to the urea-aldehyde condensate being such that the polyhydric alcohol is in excess of the polybasic carboxylic acid and such that each of them is in excess of the condensate, and then with further temperature elevation making at least one addition of fatty oil acid.

2,279,313

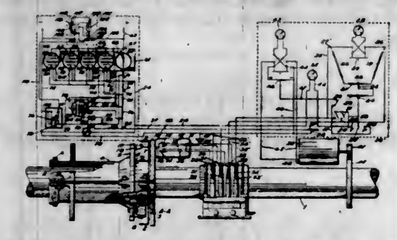
VOLTAGE REGULATOR

Wayne C. Hall, Washington, D. C.

Original application January 26, 1940, Serial No. 315,722. Divided and this application November 29, 1940, Serial No. 367,719

9 Claims. (Cl. 171—229)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a regulatory system, a fluctuating source of direct current electromotive force, a first resistor, a second resistor and a ballast resistor connected in series relation with the aforesaid source of electromotive force, at least one space discharge device including an anode, cathode and grid connected in parallel with said ballast resistor and said first mentioned resistor to thus form two parallel branches in the regulatory system, a second space discharge device for control purposes and including an anode, cathode and grid, the grid of said second mentioned device being electrically connected to a point on the first mentioned resistor and being at all times maintained at a negative potential with respect to its cooperating cathode, a load resistor in circuit with said second mentioned device, the grid of said first mentioned device being connected to the anode of said second mentioned device and being at all times maintained at a negative potential with respect to its cooperating cathode, the two parallel branches being so arranged that any change in current in one branch attending any fluctuation in the electromotive force acts through the voltage drop in the first mentioned resistor, the associated control device and load resistor to cause a substantially equal but opposite change in current through the other parallel branch, whereby the current in the second mentioned resistor is maintained substantially constant.

2,279,314

DETERGENT COMPOSITION

Lloyd F. Henderson and Bernard L. Maxwell, Reading, Mass., assignors to Lever Brothers Company, a corporation of Maine

No Drawing. Application January 26, 1939, Serial No. 253,020

10 Claims. (Cl. 252—138)

2. A non-soap detergent composition of matter comprising a non-soap detergent active ingredient selected from the group consisting of higher fatty sulfonated amides and higher fatty isethionates, tetrasodium pyrophosphate to impart a slippery feel to a solution containing said composition in a concentration ordinarily used in detergent operations, and an acid salt to impart to said solution of the composition a pH value of not over 7.

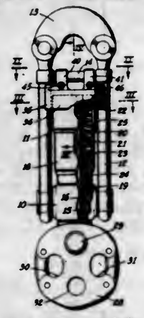
2,279,315

DRILLING HOOK

Richard K. Hertel, Los Angeles, Calif., assignor to Byron Jackson Co., Huntington Park, Calif., a corporation of Delaware

Application June 13, 1941, Serial No. 397,859

7 Claims. (Cl. 294—82)



1. A hook structure comprising a bail adapted to be connected at its upper end to supporting means, a block having trunnions pivotally connected to the lower end of said bail, a stem extending through said block and having an abutment adjacent its upper end and a hook member connected to its lower end, a housing surrounding said stem and having an internal shoulder, bearing means rotatably mounting said housing on said block, spring means in said housing between said stem abutment and said shoulder, and means rigidly secured to said bail and loosely surrounding said housing for restraining said housing against substantial tilting movement relative to said bail about the axis of said trunnions while permitting rotation of said housing relative to said bail and said restraining means.

2,279,316

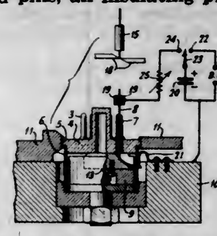
WELDING MACHINE

Carl Herzog, Belleville, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application April 1, 1941, Serial No. 386,280

3 Claims. (Cl. 219—4)

3. A machine for making tube bases having a metal cylinder closed at one end with an insulating disc carrying hollow contact pins parallel to the axis of the cylinder, comprising a metal positioning die for receiving and holding said cylinder, means for feeding a wire lengthwise through one of said pins, an insulating piece on said die,



said piece having a concave curved surface facing the inner end of said pin and the wall of said cylinder, and a source of electric power connected between said cylinder and said wire.

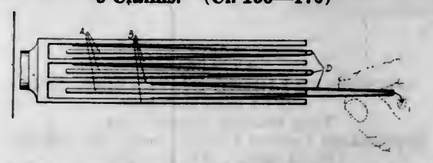
2,279,317

BATTERY MAKING METHOD

John Hilger, Milwaukee, Wis., and James F. Macholl, Los Angeles, Calif., assignors, by mesne assignments, to Owens-Corning Fiberglas Corporation, Toledo, Ohio, a corporation of Delaware

Application October 31, 1940, Serial No. 363,662

5 Claims. (Cl. 136—176)



1. The method of making a battery plate assembly which comprises mounting the positive and negative plates in alternate, spaced relations, inserting pairs of folded fiber-glass mat sheets in the assembly one sheet substantially over both sides of each positive plate with the fold extending about one edge thereof, and then inserting separator plates between the mats and the negative plates in frictional engagement therewith and in a direction tending to urge the folds of the mat sheets against said positive plate edges.

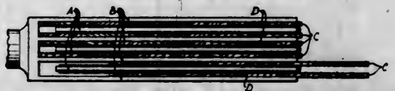
2,279,318

BATTERY

John Hilger, Milwaukee, Wis., and James F. Macholl, Los Angeles, Calif., assignors, by mesne assignments, to Owens-Corning Fiberglas Corporation, Toledo, Ohio, a corporation of Delaware

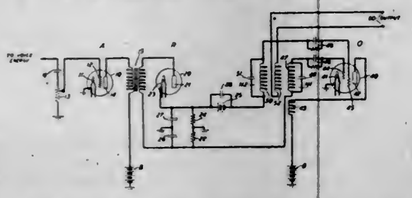
Original application October 31, 1940, Serial No. 363,662. Divided and this application March 20, 1941, Serial No. 384,332

3 Claims. (Cl. 136—146)



1. A mat for one positive plate of a storage battery and for retaining active material in the positive plate of the storage battery comprising a rectangular sheet of porous fiber glass material having an area substantially twice that of the plate and folded in such manner as to cover both faces of the plate, said mat being pre-perforated along the fold line to facilitate accurate folding into double wall formation.

2,279,319
ELECTRIC WAVE CIRCUIT
Richard K. Honaman, Glen Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 28, 1941, Serial No. 395,521
5 Claims. (Cl. 250—36)



1. An electric circuit comprising an electron discharge device having a cathode, an anode and a pair of control electrodes, a feedback connection from said anode to each of said electrodes, an oscillatory circuit connected between each electrode and said cathode, means for biasing said electrodes to potentials disabling one and enabling the other of said oscillatory circuits, and means for simultaneously changing the bias on said electrodes enabling and disabling respectively the formerly disabled and enabled oscillatory circuits.

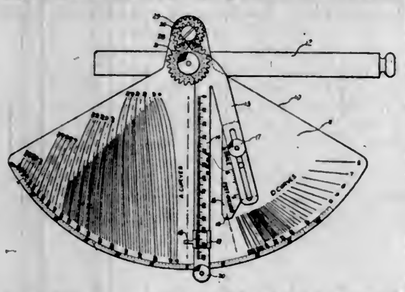
2,279,320
COMBINED LIQUID DISPENSING AND APPLYING DEVICE
Tom Huston, Miami, Fla.
Application August 8, 1939, Serial No. 289,012
12 Claims. (Cl. 15—133)



1. In a liquid dispensing device, a resilient cellulose container having an open end and having fluid pervious walls comprising the walls of the container and of sufficient resiliency to return to their normal position following compression, a resilient dispenser having a normally closed passage therein normally closing that end thereof and adapted to discharge liquid through said passage when said container walls are compressed, and a flexible wax coating on the inner surface of said container for maintaining sufficient resiliency of said cellulose container to maintain said passage normally closed while preventing diffusion of liquid through the outer walls thereof.

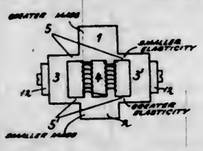
2,279,321
DISTANCE AND HEIGHT METER
Albrecht J. Janssen, Lombard, Ill.
Application November 6, 1940, Serial No. 364,571
5 Claims. (Cl. 33—71)

1. Apparatus of the character described for making lineal measurements, including: a body portion; leveling means whereby said body portion may be brought to a predetermined position relative to the horizontal; sighting means pivotally mounted on said body portion on a normally horizontal axis; scale means on said body portion calibrated in lineal units; indicating means moved by pivotal movement of said sighting means, said indicating means being adjustable toward and away from the point of pivoting of the sighting means in accordance with the height of the apparatus and being adapted to cooperate with said scale means to indicate the distance of the observer from an object; a second scale means on the body portion; and a second indicating means moved by pivotal movement of



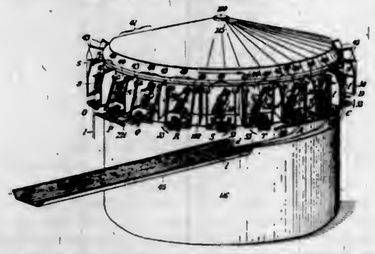
said sighting means, said second indicating means being adjustable toward and away from the point of pivoting of the sighting means in accordance with the distance of the observer from said object and being adapted to cooperate with said second scale means to indicate the height of a definite portion of said object when the upper extremity thereof is observed through said sighting means.

2,279,322
MAGNETO-STRICTIVE OSCILLATOR
Ulrich John, Kiel, Germany, assignor to Electro-acustic Gesellschaft mit beschränkter Haftung, Kiel, Germany, a corporation of Germany
Application March 18, 1939, Serial No. 262,691
In Germany March 28, 1938
7 Claims. (Cl. 177—386)



1. A magneto-strictive oscillator having a sound-translating surface, in particular for submarine signalling, comprising a main oscillatory system having two main masses and magneto-strictive elastic means interconnecting said main masses, only one of said main masses forming part of said sound-translating surface to be effective in the acoustic signalling operation while said other main mass is arranged separate from said surface to form substantially a counterpoise for said first main mass, electric circuit means having a coil magnetically coupled with said main oscillatory system to transmit oscillatory energy between said circuit means and said system, and at least one auxiliary system interconnecting said two main masses separately from said elastic means and arranged separate from said coil so as to be substantially ineffective as regards said energy transmission, said auxiliary system having two elastic members connected with said two main masses respectively and having elasticities inversely proportional to the magnitudes of said two masses, and an auxiliary unelastic mass interconnecting said elastic members and forming a nodal point and supporting element of the oscillator.

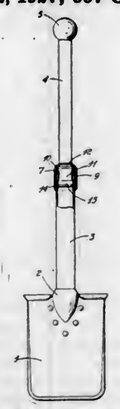
2,279,323
MANUFACTURE AND PACKETING OF DETONATORS
Charles R. Johnson, Glen Mills, Pa., and Edward H. Baughman, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application May 17, 1940, Serial No. 335,740
46 Claims. (Cl. 242—53)



1. Winding mechanism of the character described comprising an oscillatory winding form having spaced winding members extending in the general direction of its axis of oscillation, and also having a detonator holder between said winding members; and a winding guide for the lead-wires of a detonator in said holder movable in the general direction of the said form axis from and toward the form, and including wire-holding jaws with their opening presented outward, away from the form, for sidewise insertion and withdrawal of the wires.

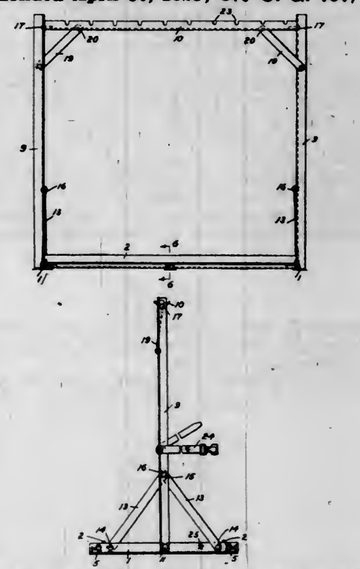
24. In a machine of the character described, the combination of an upright turret structure; winding devices on said turret structure, around its circumference, constructed to wind figure-8 skeins; and means within said turret structure for operating said winding devices.

2,279,324
SPADE OR SHOVEL
Joseph Julien, alias Eugène Pallen, Le Zoute, Belgium
Application May 13, 1940, Serial No. 335,011
In France May 12, 1939
4 Claims. (Cl. 294—57)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)



1. A spade comprising, in combination, an extensible handle comprising a tubular portion and a stem portion adapted to be telescoped into said tubular portion, a blade secured to one end of said tubular portion, the other end of said tubular portion having a screw thread and terminating in a ring of resilient inwardly movable claws, a nut adapted to be screwed on said screw thread, said nut having an inner conical surface for engaging the claws and moving them inwardly against said stem portion, said stem portion having a ferrule at the end within the tubular portion, and said tubular portion having a socket at the base thereof and at the junction of the tube with the blade to receive said ferrule.

2,279,325
GUN RACK
Lewis Kaldizar, United States Army, Aberdeen Proving Ground, Md.
Application April 29, 1941, Serial No. 390,939
7 Claims. (Cl. 211—64)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

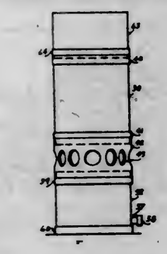


1. In a collapsible gun rack, a pair of spaced horizontal base bars each having a centrally located aperture, vertical uprights having apertures including slot portions near the upper ends of said uprights, headed protuberances at the lower ends of said uprights conditioned to detachably and firmly engage said centrally located apertures, a lug on each of said uprights, brace straps pivoted to each of said base bars adjacent their ends, a hook on the opposite ends of said brace straps to firmly engage the lug on said uprights, a muzzle receiving bar, headed lugs at the ends of said muzzle bar to detachably and firmly engage the slot portions of the apertures in said vertical uprights, lugs spaced from the ends of said bar, brace straps pivoted to the uprights, and hooks on the opposite ends of said brace straps to engage the lugs on said muzzle bar.

2,279,326
APPARATUS FOR DEHYDRATING AIR
Hiram Joseph Kaufman, Detroit, Mich.
Application September 13, 1939, Serial No. 294,584
4 Claims. (Cl. 183—4)

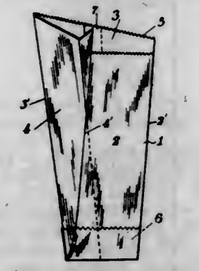
1. A portable sectional cabinet for dehydration of air comprising a plurality of self-contained

changeable operating units superimposed one above the other to collectively define a vertical conduit for the passage of air, said units including a base unit in the form of a receptacle to receive by gravity flow waste hygroscopic solution, a plate unit above said base unit and having an interior structure over which the hygroscopic solution flows, air inlet openings defined in the wall of said plate unit to admit air to flow over said



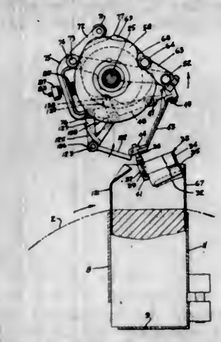
interior structure, a container unit above said plate unit for the solid hygroscopic material, said container unit being opened at the top and bottom and having as its interior structure, a cellular container of openwork side walls defining a plurality of adjacent vertical air passages and storage compartments for said solid material, and an upper unit having means for drawing air upwardly through said cabinet.

2,279,327
CONTAINER
Abraham B. Kehr, Philadelphia, Pa., assignor to Newspaper Service Corporation, Houston, Tex., a corporation of Texas
Application February 21, 1939, Serial No. 257,574
3 Claims. (Cl. 229—53)



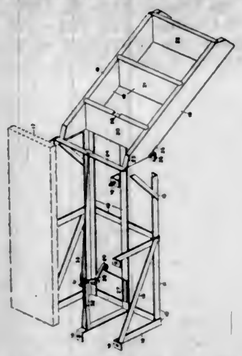
1. A container for articles of manufacture and commerce, said container being formed from a tube of cellulosic material, said tube comprising only two longitudinal similar panels having a longitudinal edge in common and a single expansible longitudinal infolded gusset connecting the other longitudinal edges of said panels, one of the longitudinal panels at one end of the tube being folded over onto the other panel to form a bottom for said container, said bottom constituting a transverse edge common to both panels, the bottom end of said gusset being fixedly secured in said infolded position to the bottom of said container along said transverse edge, the container being adapted to be expanded to receive a bulky article and when in expanded condition having a substantially triangular cross-section, said cross-section tapering near the bottom of the container to the common transverse edge.

2,279,328
BAG CLOSING AND SEALING MACHINE
Harold V. Kindseth, Minneapolis, Minn., assignor to Bemis Bro. Bag Co., Minneapolis, Minn., a corporation of Missouri
Application June 22, 1939, Serial No. 280,541
12 Claims. (Cl. 91—18)



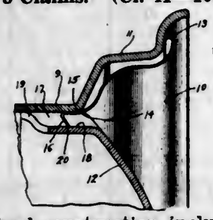
1. In a bag closing and sealing machine, means for supporting a filled bag, a bendable paste applicator, opposed pivoted arms to which the ends of the applicator are connected, a movable support for said arms, and cam means for actuating said arms to insert the paste applicator into an open bag top and expanding it into engagement with inner surfaces of the bag top walls, thereby to apply a coating of paste thereto, said coating of paste being applied in the form of a narrow elongated pattern extending substantially around one-half the circumference of the bag top.

2,279,329
LADDER
Jesse E. King, Laurel, Miss.
Application August 20, 1940, Serial No. 353,359
2 Claims. (Cl. 280—166)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A device of the character described in combination with the floor of a vehicle comprising a ladder, a housing for said ladder attached to the under side of said floor, said housing having a bottom to slidably support the ladder, means for releasably securing the ladder within the housing against the bottom thereof in a horizontal position, means for disposing the ladder in an operative position at one end of the housing, said disposing means including hooks and abutments on said ladder to engage the housing.

2,279,330
ORNAMENTAL TRIM RING FOR WHEELS
George Albert Lyon, Allenhurst, N. J.
Application January 21, 1939, Serial No. 252,095
8 Claims. (Cl. 41—10)



1. In a wheel construction including rim and body members, an ornamental trim ring for one of said members having a marginal portion provided with spring means for retaining said trim ring on the wheel, said spring means bearing against one of said members and having its radially inner extremity pressed into a snap-on engagement with the other of said members, said spring means comprising a plurality of radially inwardly extending resilient ring retaining fingers.

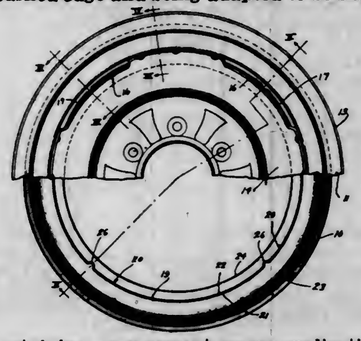
2,279,331
ORNAMENTAL MEMBER FOR WHEELS
George Albert Lyon, Allenhurst, N. J.
Application January 21, 1939, Serial No. 252,096
5 Claims. (Cl. 41—10)



1. In a wheel construction including a wheel having rim and body members, said rim including a plurality of radial flanges and a base flange, and said body member including a plurality of spaced apertures at its junction with the rim member, an ornamental trim ring for the rim member having its inner marginal portion provided with a plurality of spaced resilient fingers extending through said apertures and embracing an inner and concealed edge of one of said members for retaining the ring on the wheel, said fingers being adapted to be snapped into retaining engagement upon application of the ring in an axial direction to the wheel, each of said fingers having an intermediate portion for bearing against the other wheel member whereby said fingers are wedged between the two members.

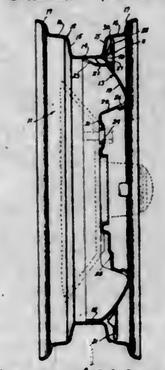
2,279,332
ORNAMENTAL TRIM RING
George Albert Lyon, Allenhurst, N. J.
Application January 21, 1939, Serial No. 252,098
8 Claims. (Cl. 41—10)

1. As an article of manufacture, an ornamental trim ring for a wheel including a rim member having a plurality of radial flanges as well as a base flange and a body member including a plurality of spaced apertures at its junction with the rim member, said trim ring having an inner turned edge provided with a plurality of spaced resilient projections adapted to extend through said apertures and to each embrace an inner and concealed shoulder of one of said members for retaining the ring on the wheel, said projections being separated by cut out sections in said turned edge and being adapted to be snapped



into retaining engagement upon application of the ring in an axial direction to the wheel, said turned edge comprising a collapsed intermediate annular portion of said trim ring.

2,279,333
ORNAMENTAL WHEEL MEMBER AND ASSEMBLY
George Albert Lyon, Allenhurst, N. J.
Application October 6, 1939, Serial No. 298,218
13 Claims. (Cl. 41—10)

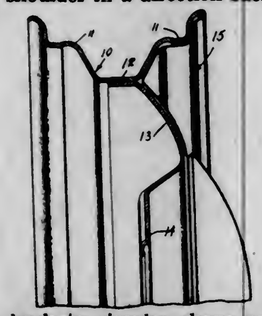


1. A trim ring for vehicle wheels comprising an annular sheet metal member having a plurality of fingers projecting from one edge thereof across the major portion of the rear face of the ring, then projecting axially rearwardly, and terminating in a tip portion bent obliquely axially forwardly at an acute angle to said axially rearwardly projecting portion, said tip portion being arranged to be pressed into retaining engagement with a vehicle wheel.

2,279,334
WHEEL STRUCTURE
George Albert Lyon, Allenhurst, N. J.
Application November 25, 1940, Serial No. 366,971
4 Claims. (Cl. 301—37)

1. In a wheel structure, a wheel including a flanged and shouldered tire rim and a circular covering member formed to be resiliently snapped into retained engagement behind a shoulder of the rim, said member having an outer peripheral edge normally distorted out of a circular shape at a plurality of spaced portions and

said portions being flexible upon engagement with said shoulder in a direction such as to flex



said edge back to circular shape and to place said edge under resilient stress whereby it resiliently grips said rim shoulder.

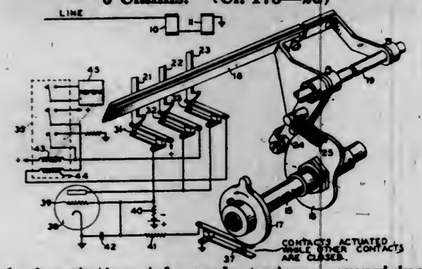
2,279,335

SWITCHING SELECTOR FOR PRINTING TELEGRAPH SYSTEMS

Ronald V. Morgenstern, Irvington, and Henry P. Gilbert, Hackensack, N. J., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York

Application August 3, 1940, Serial No. 350,824

6 Claims. (Cl. 178—23)



1. A printing telegraph system comprising a printer embodying selectively operable elements or bars and means for operating the same in response to line current impulses, contacts actuated by said elements or bars upon the receipt of predetermined code combinations of impulses, a space-discharge device operatively connected to a plurality of said contacts and provided with a control electrode, means for imparting a definite time characteristic to the current flowing in the circuit of the control electrode, switch means and means including said contacts and space-discharge device for operating said switch means in response to predetermined code combinations.

2,279,336

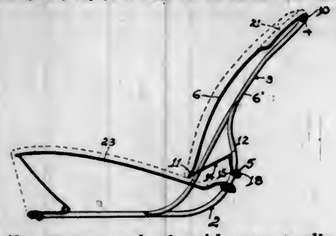
WIRE SPRING FOR CUSHIONED BACKS OF UPHOLSTERED FURNITURE

William H. Neely, Cleveland, Ohio, assignor, by direct and mesne assignments, to John C. Lincoln, Scottsdale, Ariz.

Application February 10, 1939, Serial No. 255,653

7 Claims. (Cl. 155—179)

6. An elongated wire spring for cushioned backs of automobile and furniture seats comprising a substantially straight, sinuously corrugated resting and supporting portion having its upper portion rearwardly offset by rearwardly inclining a single bend of its sinuous corrugations and having its lower portion forwardly extended by forwardly inclining the lower end bend of its sinuous corrugations, and attachment and supporting means at the end of said lower end bend



and at the upper end of said rearwardly offset upper portion.

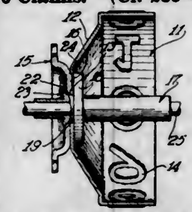
2,279,337

NUMERAL WHEEL

Frederick A. Niemann, Chicago, Ill., assignor to Felt & Tarrant Mfg. Co., Chicago, Ill., a corporation of Illinois

Application July 9, 1938, Serial No. 218,423

6 Claims. (Cl. 235—1)



1. A numeral wheel, comprising a cylindrical member having a flange portion, a plurality of apertures formed in said flange, a gear having a plurality of protuberances on one side wall thereof and disposed in the apertures in said flange, and a hub member rigidly securing said cylindrical member and said gear member together to form a unitary assemblage.

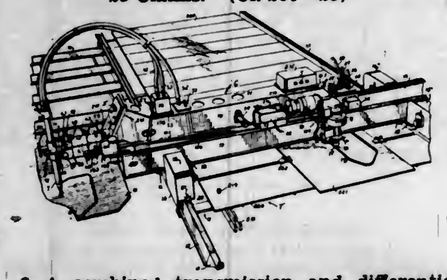
2,279,338

SHAPE-CUTTING MACHINE

Samuel R. Oldham, Elizabeth, N. J., assignor to Oxweld Acetylene Company, a corporation of West Virginia

Application August 26, 1937, Serial No. 161,085

25 Claims. (Cl. 266—23)



6. A combined transmission and differential means for a propelling unit comprising means for driving a power shaft at a plurality of speeds; a pair of mutually telescoping drive shafts adapted to be oppositely rotated simultaneously by said power shaft; a pair of spaced traction elements adapted to engage and travel along a templet; and driving means associated with said elements and engaging said drive shafts and being so positioned with respect to said drive shafts that relative axial movement between said elements and said shafts may be effected while maintaining positive drive connections therebetween.

2,279,339

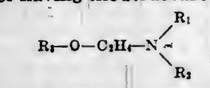
CELLULOSIC STRUCTURE AND METHOD FOR MAKING SAME

Franklin Traviss Peters, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 9, 1939, Serial No. 272,639

14 Claims. (Cl. 91—68)

1. A flexible, durable, water-sensitive, water-insoluble cellulosic structure of the type precipitated from aqueous alkaline cellulosic solutions, said structure containing, as a softener therefor, an amide ester having the structure



in which R_1 designates a member of the group consisting of hydrogen and beta-hydroxyethyl radicals, R_2 designates an acyl group of 1 to 4 carbon atoms, and R_3 designates a member of the group consisting of acyl group of 1 to 4 carbon atoms and carbamyl groups.

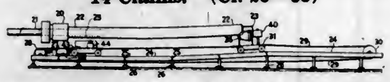
2,279,340

CONVEYER FOR COATED PIPE

William R. Postlewaite, San Francisco, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware

Application December 5, 1938, Serial No. 243,927

14 Claims. (Cl. 25—38)



11. A conveying apparatus for receiving and separating successive abutting lengths of pipe or the like being discharged axially from a continuously operating coating machine, comprising a single track extending axially from said machine, a first car on said track for receiving the leading end of a length of pipe, a second car on said track for receiving the trailing end of said length of pipe, a cable extending throughout said track and secured to said first car, means on said second car for clamping it to said cable to space it from said first car, and reversible drive means for said cable to advance both of said cars at a rate more rapid than the axial advance of said pipe out of said coating machine to separate said length of pipe from a succeeding length and to return both of said cars on said track to a point adjacent to the discharge end of said coating machine.

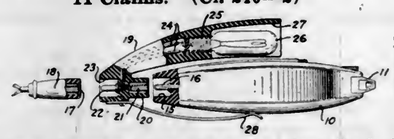
2,279,341

LIGHT FOR ELECTRIC RAZORS

Robert V. Powell, Oakland, Calif.

Application September 17, 1938, Serial No. 230,433

11 Claims. (Cl. 240—2)



1. In a device of the character described, the combination of an electric razor having contacts at its rear end with which corresponding contacts of a detachable connector cooperate, a detachable connector adapted to engage said contacts and be supported thereby at the rear end of said electric razor, said detachable connector having means including a current conducting lead for connection with a service outlet, a lamp supporting means carried by said detachable connector and extending forwardly along one side of the razor, and an electric lamp at the forward end of said lamp supporting means arranged and adapted to illuminate an area adjacent the working end of the electric razor when in use.

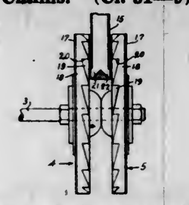
2,279,342

ABRASIVE PROJECTING APPARATUS

Nelson J. Quinn, Toledo, Ohio, assignor to Quinnex Corporation, Toledo, Ohio, a corporation of Delaware

Application May 25, 1935, Serial No. 23,474

11 Claims. (Cl. 51—9)



11. In abrasive projecting apparatus, the combination of two spaced rotatably mounted disks having yieldable coatings on their adjacent surfaces and said coatings being provided with radial recesses and being arranged with such surfaces in at least partly opposed and cooperative relationship, means for feeding abrasive angularly to the recesses in each of said disks, and means for synchronously rotating said disks.

2,279,343

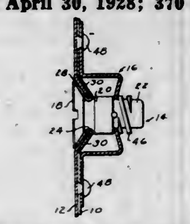
COWLING FASTENER

William O. Reeser, Buffalo, N. Y.

Application November 15, 1940, Serial No. 365,799

12 Claims. (Cl. 24—221)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In combination, a pair of members to be connected, provided with openings to register with one another, one of said members having a yieldable plate element spaced from said member and fixedly secured thereto, said plate element having an opening therein registering with said first-mentioned openings and having a slot extending outwardly from said opening, a screw element rotatably mounted in the opening in the other of said members, said screw element being provided with a helical thread for engagement with said plate element to thereby connect said members, the thread of said screw element merging in a groove intermediate the thread and the head of said screw and lying in a plane substantially normal to the axis of said screw, said

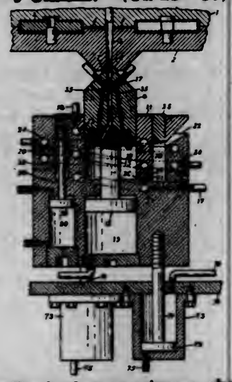
groove being positioned to receive the plate element in tensioned relation when the members are connected together.

2,279,344

INJECTING METHOD AND MEANS FOR MOLDING THERMOPLASTIC MATERIALS

James S. Reid, Shaker Heights, Ohio, assignor, by mesne assignments, to The Standard Products Company, Port Clinton, Ohio, a corporation of Ohio

Application February 19, 1937, Serial No. 126,679
9 Claims. (Cl. 18—30)



1. The method of preparing a charge of thermoplastic material comprising granules of various colors for injection into a mold cavity comprising placing the charge in a loading chamber with granules of the same color grouped together in localized zones, heating the loading chamber to at least partially plasticize the charge, transferring the charge by pressure to an injecting chamber in a direction toward the mold cavity while maintaining portions of the different colors of the material in localized unmixed masses respectively and then injecting the composite charge into the mold cavity from the injection chamber.

6. A device for injecting molten plastic material under pressure into a cavity of a mold, said device comprising a carrying block adapted to be moved toward and away from the mold, walls defining an injection cylinder in said carrying block, an injection piston reciprocable in said injection cylinder, a chamber in the carrying block and coaxial with and closely adjacent to the injecting cylinder and provided with a plurality of ports connecting the chamber with the injection cylinder and opening into the cylinder at a plurality of spaced points, and piston means in the chamber constructed and arranged to be moved in and relative to the chamber independently of the injecting piston in a manner to transfer the plastic material therefrom through the said ports to the injection cylinder, said carrying block being constructed and arranged to be moved relative to the injecting piston in a manner to force the material from the injecting cylinder into the mold cavities.

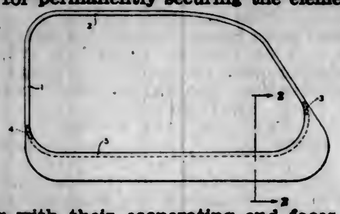
2,279,345

FABRICATED THERMOPLASTIC DECORATIVE TRIM MEMBER

James S. Reid, Shaker Heights, Ohio, assignor, by mesne assignments, to The Standard Products Company, Port Clinton, Ohio, a corporation of Ohio

Application February 17, 1938, Serial No. 191,062
4 Claims. (Cl. 296—44)

1. A fabricated decorative trim member of thermoplastic organic material comprising separate elongated molded elements, each element having a pair of end faces which are complementary to cooperating end faces of the adjacent element, and rigid means associated with said elements and bridging said complementary faces for permanently securing the elements to-



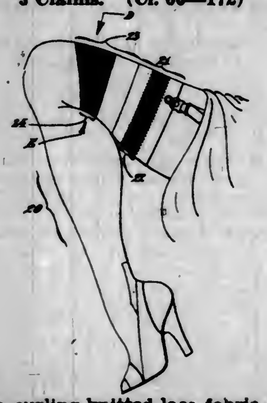
gether with their cooperating end faces in fitting relation and with the normally exposed faces of respective elements flush with each other and providing a unitary continuous fabricated trim member, said means being arranged to prevent separation of joined adjacent elements in a direction normal to the normally exposed faces thereof.

2,279,346

ELASTIC LACE STITCH STRAIN ABSORBING MEANS FOR HOSIERY AND THE LIKE

William E. Sheeler, Spring Township, Berks County, Pa., assignor to Berkshire Knitting Mills, Wyomissing, Pa., a corporation of Pennsylvania

Application July 1, 1939, Serial No. 282,513
3 Claims. (Cl. 66—172)



1. A non-curling knitted lace fabric entirely of elastic yarn having apertures in coursewise rows, apertures in adjacent rows being staggered in the coursewise direction, and each aperture having, along one edge, two stitches transferred in a given direction from a given wale in succeeding courses and, along another edge, another stitch transferred in the opposite direction from a wale next to said given wale and in one of said courses.

2,279,347

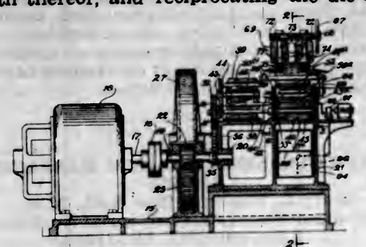
METHOD AND APPARATUS FOR DRAWING METAL

Aaron Simons, Bronx, N. Y.

Application April 22, 1939, Serial No. 269,373
20 Claims. (Cl. 205—1)

1. The method of reducing the thickness of an elongated workpiece, comprising mechanically drawing a workpiece between a pair of relatively adjustable parallel cylindrical and rod-like die

members of the same diameter, supporting the die members throughout substantially the full length thereof, and reciprocating the die mem-



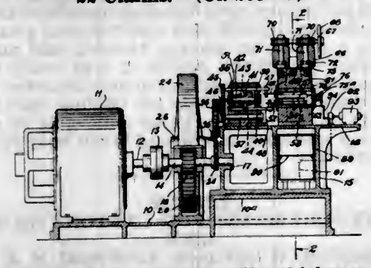
bers at equal speeds in opposite directions to each other transversely of the direction of travel of the workpiece.

2,279,348

METHOD AND APPARATUS FOR DRAWING METAL

Aaron Simons, Bronx, N. Y.

Application April 22, 1939, Serial No. 269,374
22 Claims. (Cl. 205—1)



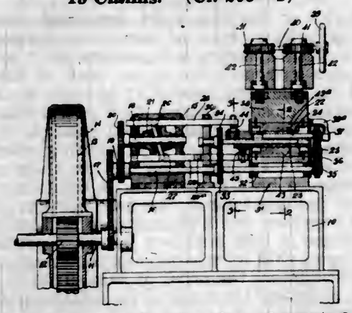
1. The method of reducing the thickness of an elongated sheet or strip workpiece, which consists of mechanically drawing the workpiece between longitudinal surfaces of a pair of elongated rod-like and relatively parallel non-rotatable die elements, while reciprocating said elements at equal speeds in opposite directions to each other longitudinally of their axis and transversely of the direction of travel of the drawn workpiece.

2,279,349

METHOD AND APPARATUS FOR DRAWING METAL

Aaron Simons, Bronx, N. Y.

Application April 26, 1940, Serial No. 331,692
15 Claims. (Cl. 205—1)



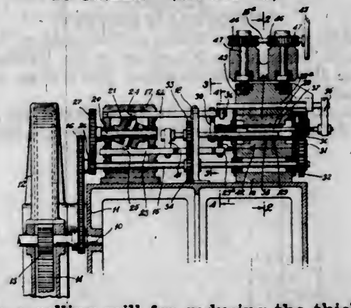
1. An apparatus for drawing elongated workpieces to reduce the thickness thereof, comprising two relatively adjustable die members between which a workpiece is drawn, means independent of the workpiece for rotating said die members while maintaining fixed relationship to each other, a backing for each die member, and means for reciprocating said backings in opposite directions to each other and longitudinally of the die members while said die members are rotated.

2,279,350

METHOD AND APPARATUS FOR DRAWING METAL

Aaron Simons, Bronx, N. Y.

Application April 27, 1940, Serial No. 331,904
18 Claims. (Cl. 205—3)



1. In a rolling mill for reducing the thickness of an elongated workpiece, a pair of working rolls arranged in parallel relation, a pair of backings forming supports for said working rolls and extending substantially the full operative length of said rolls, means for reciprocating the rolls in opposite directions to each other while rotating said rolls, and means for reciprocating said backings in directions opposite to the rolls supported thereby.

2,279,351

PARTIAL DENTURE

Clawson N. Skinner, Whittier, Calif.

Application January 17, 1941, Serial No. 374,848
8 Claims. (Cl. 32—5)



1. In an anchor device for a partial denture, an elongated bar member, having one end adapted to be secured to an anchor, a body mounted on said bar, said bar being of a size to permit the body to move slightly thereon, a denture casting engaging member and means on the body to loosely and pivotally mount the engaging member on the body.

2,279,352

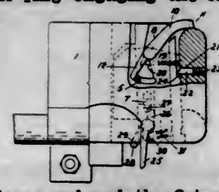
COCKING MECHANISM

William Summerbell, Watervliet, N. Y.

Application May 16, 1941, Serial No. 393,764
3 Claims. (Cl. 89—24)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

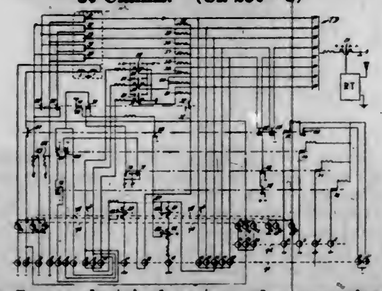
1. In a gun having a breech block enclosing a firing mechanism and a breech ring in which said block is slidably mounted, a cocking mechanism comprising a lever journaled in the breech block, means on said lever engageable with said firing mechanism for cocking thereof, an arm on said lever extending beyond the limits of the breech block engaging the breech ring to swing the lever

as the breech is opened, and camming means in said breech ring engaging the lever to further



swing the lever and cock the firing mechanism as the breech opening movement is concluded.

2,279,353
TELEGRAPH SYSTEM
Hendrik C. A. van Duuren, Wassenaar, Netherlands, assignor to Kingdom of the Netherlands, Post Office Administration, The Hague, Netherlands
Application September 24, 1938, Serial No. 231,479
In the Netherlands September 25, 1937
30 Claims. (Cl. 250—8)



28. In an electrical system of communication, the method of signaling which comprises transmitting code signals each composed of a predetermined number of positive elements and a predetermined number of negative elements, and testing the code signals received at the receiving station including sensing the number of positive elements and sensing the number of negative elements in each signal to distinguish between true code sigals and mutilated signals.

2,279,354
WOVEN WICK
Gustav Walters, Middletown, Conn., assignor to The Russell Manufacturing Company, Middletown, Conn., a corporation of Connecticut
Application August 3, 1940, Serial No. 350,583
13 Claims. (Cl. 67—69)



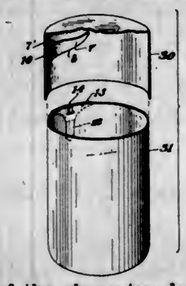
2. A woven wick having longitudinal strands and transverse strands woven together; at least a majority of the longitudinal strands being flame-resistant; and at least some of said longitudinal flame-resistant strands each having a longitudinally-continuous flame-resistant portion, and a longitudinally-continuous flame-destroyable portion superior in oil-feeding capacity to said flame-resistant portion.

2,279,355
TOOTH CLEANING AND GUM MASSAGING BRUSH
Harry L. Wilensky, New York, N. Y.
Application March 28, 1940, Serial No. 326,321
2 Claims. (Cl. 15—110)



1. In a tooth cleansing and gum massaging brush having a hollow rubber brush body with massaging elements projecting upwardly from the upper wall thereof and being open at one end, said upper wall having openings therethrough, a strip within the hollow of said brush body and having teeth cleaning members thereon projecting through said openings, and a handle having a tongue on one end thereof, said tongue extending within the hollow of said brush body and bearing between said strip and the lower wall of said hollow brush body for holding said strip in position, said tongue being removable by sliding from said open end of said brush body to free said strip.

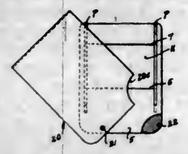
2,279,356
FASTENING MEANS FOR CARTONS OR THE LIKE
Edith R. Witherspoon, Englewood, N. J.
Application November 13, 1936, Serial No. 110,573
1 Claim. (Cl. 206—1.5)



A device of the character described comprising a cylindrical type of can or container element, a closure having a depending skirt to telescope and surround the upper part of the side wall of said element, said skirt and side wall portion being closely spaced and presenting opposed surfaces in the assembled relation of said element and closure, and two fastening members, each of said members being of thin sheet metal and having a base portion and a relatively narrow and flexible tongue, the base portion of one of said members being mounted on and lying flat against one of said surfaces, the base portion of the other of said members being mounted on and lying flat against the other of said surfaces, each of said members throughout its length conforming substantially to the curving contour of the surface on which the member is mounted, the member mounted on said element having the

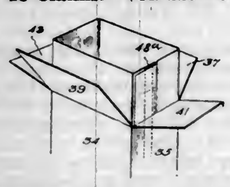
base portion thereof adjacent the upper edge of said element and having the tongue thereof extending downwardly, the member mounted on said closure skirt extending substantially circumferentially thereof, the tip of one of said tongues being slightly spaced from the surface on which the corresponding base portion is mounted, whereby said tongues in the assembled relation of said element and closure are closely confined between said surfaces, have interlocking interengagement and extend substantially at right angles to each other to provide for disengagement and engagement by relative rotation of said element and closure, the tongue mounted on said closure skirt being tapered to its tip end and on its upper edge being concavely shaped and on its lower edge being convexly shaped, whereby the shape of said last named tongue facilitates its engagement and holding action with the other of said tongues.

2,279,357
PIN CASE
Frank C. Wallace, Los Angeles, Calif., assignor to Hollywood Comb Curler Inc., Los Angeles, Calif., a corporation of California
Application June 2, 1939, Serial No. 276,945
1 Claim. (Cl. 206—66)



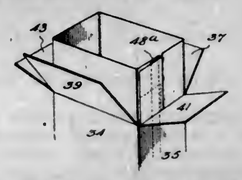
A package of U-shaped bobby pins, comprising a case having front and back cover members, a flexible plate mounted between the cover members, a plurality of U-shaped bobby pins mounted astride said flexible plate in abutting side by side relationship and a pair of spaced, straight, parallel elongated slits in the plate each extending continuously from adjacent one edge to adjacent the opposite edge of the plate, providing between said slits a rectangular flexible plate portion, said last mentioned plate portion being bowed out of the plane of the flexible plate and lying to one side of the bobby pins and bearing against one leg of each pin and thereby, in conjunction with the adjacent plate portions, yieldably holding the pins against escape therefrom.

2,279,358
SKIVED CONTAINER CONSTRUCTION AND METHOD OF MAKING THE SAME
Harry F. Waters, New York, N. Y.
Application July 18, 1940, Serial No. 346,093
13 Claims. (Cl. 229—37)



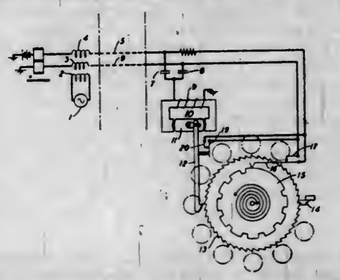
1. A container construction comprising in combination a quadrangular sheet of flexible material, skived incisions in three marginal strips of said sheet separating the same into integrally formed and connected inner and outer layers within the area of such strips while retaining a one-layer structure outside of such area, longitudinal score lines in said sheet defining a plurality of panels, and vertical incisions in said outer layer in the direction of said score lines defining hingedly connected top and bottom closure flaps for said panels, the ends of said inner layer and the flaps formed from said outer layer being adapted to be selectively secured together to form a sealed and closed container structure.

2,279,359
SKIVED CONTAINER CONSTRUCTION AND METHOD OF MAKING THE SAME
Harry F. Waters, New York, N. Y.
Original application July 18, 1940, Serial No. 346,093. Divided and this application July 12, 1941, Serial No. 402,108
9 Claims. (Cl. 93—36.01)



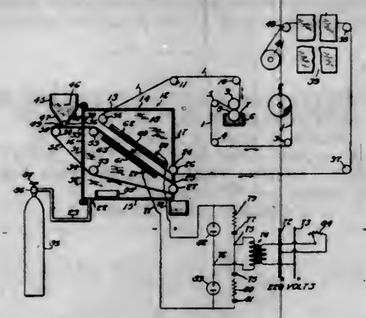
1. The method of making fluid-tight containers which comprises providing a flexible sheet bearing fluid-tight and fusible material at least on one face thereof, skiving said sheet in marginal regions thereof to separate the same into hingedly connected inner and outer layers in such regions, said inner layer bearing said fusible material, bringing together the edges of said inner layer into a face to face position and heat-sealing said edges to form a fluid-tightly confined packaging space, and bringing together the edges of the corresponding portions of said outer layer to provide a reinforcing structure for said packaging space.

2,279,360
IMPULSE TRANSMITTER
Allan Weaver, Port Washington, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 9, 1940, Serial No. 360,414
4 Claims. (Cl. 177—380)



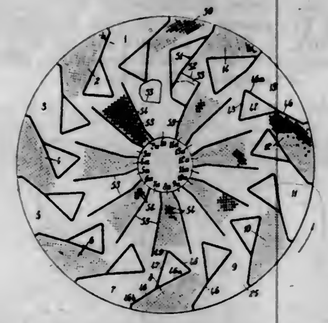
1. In a signaling system, a two-conductor line terminating at one end in a signal receiving device and at the other end in a signal transmitting device, a source of alternating current at the receiving end of said line and a synchronous alternating current motor at the transmitting end of said line, said source of current being connected in a ground return circuit to said motor over the two conductors of said line in parallel, and means for driving said signal transmitting device by said motor.

2,279,361
ELECTROSTATIC COATING PROCESS
John O. Amstutz, Troy, N. Y., assignor to Behr-Manning Corporation, Troy, N. Y., a corporation of Massachusetts
Application February 19, 1938, Serial No. 191,472
5 Claims. (Cl. 91—68)



1. The method of coating with comminuted material such as flock, which comprises providing a gaseous atmosphere which ionizes at a higher electrostatic field intensity than air, creating an electrostatic field in said atmosphere of an intensity which would create a danger of ionizing air but lower than that which ionizes the atmosphere, locating the article to be coated in said field and introducing the comminuted material into the field adjacent the article.

2,279,362
MACHINE FOR ROASTING OR DRYING POWDERED, GRANULAR, OR LIKE MATERIAL
George Ralph Baker, Peterborough, England, assignor to Baker Perkins Limited, Peterborough, England
Application July 11, 1938, Serial No. 218,698
In Great Britain July 14, 1937
10 Claims. (Cl. 34—109)



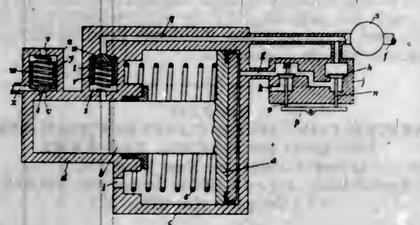
7. A roasting or drying machine comprising a rotatable drum, a series of spaced partitions dividing the drum axially into a plurality of compartments, plates located between the partitions and forming concentric series of inner and outer pockets, the plates forming the inner pockets being radial while the plates forming the outer pockets are inclined forwardly in the direction of rotation, deflector plates of V-shape in cross section located to the rear of and in contact with the outer pocket plates, the apices of said deflector plates being parallel to the axis of the drum and directed toward and projecting into the inner pockets, transfer ports in said partitions located in one of the inner pockets and transfer chutes co-operating with said ports, the arrangement being such that during rotation of the drum said deflecting plates guide the material being treated from the inner to the outer pockets and from the outer to the inner pockets and cause a progressive movement of the material around the drum, and that the material from an outer pocket of one compartment is directed laterally through the transfer opening in a partition and into an inner pocket of the next compartment.

2,279,363
ELECTRIC SHAVER
Hastings W. Baker, Great Neck, N. Y., assignor to General Theatres Equipment Corporation, New York, N. Y., a corporation of Delaware
Application February 26, 1938, Serial No. 192,713
3 Claims. (Cl. 30—43)



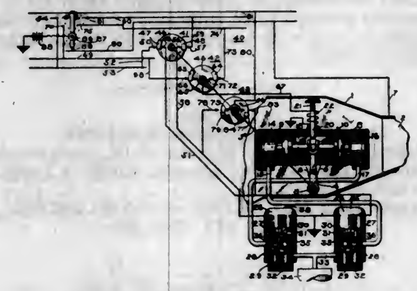
1. A power operated razor comprising a body, a hollow guard member carried thereby and provided with a slot and a rotary cutter having a plurality of blades rotatable within said guard member and adapted to engage the whiskers of the user against said slot to sever the same, end bearings at the outer end of and forming a part of said rotary cutter, said bearings being formed of a plurality of parts, each of which is radially movable by centrifugal action against the inner periphery of said guard member.

2,279,364
COMPRESSED AIR INTENSIFIER
George Norman Cadbury, West Bromwich, England, assignor to E. M. B. Company Limited, West Bromwich, England
Application July 24, 1940, Serial No. 347,328
In Great Britain September 1, 1939
7 Claims. (Cl. 230—52)



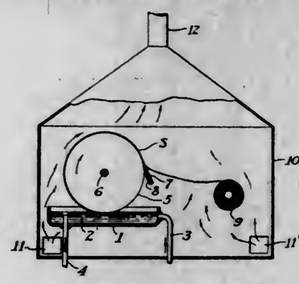
1. A compressed air intensifier comprising the combination of a ram having a pair of parts of different diameters, a cylinder in which the ram is arranged and which is provided with two parts of appropriately different diameters for accommodating the ram parts, the ram and cylinder being capable of relative sliding movement under the action of compressed air in the direction for compressing air in the cylinder part of smaller diameter, the larger part of the cylinder having a single aperture serving as a common inlet and outlet therefor, valve means for controlling the flow of air to and from the larger part of the cylinder through the single aperture including a casing having a main passageway therethrough communicating with the aperture and provided with a branch to atmosphere, and a pair of valves in the casing respectively controlling the main passageway and the branch, a non-return valve past which air can flow to the smaller part of the cylinder, and valve means for controlling communication between the smaller part of the cylinder, the apparatus to be operated, and an outlet therefrom to atmosphere.

2,279,365
CLUTCH MECHANISM
Mortimer B. Cameron, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application July 27, 1940, Serial No. 347,822
10 Claims. (Cl. 192—3.5)



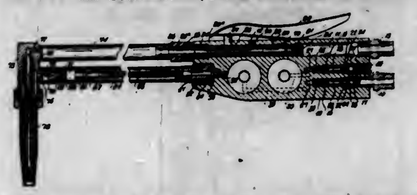
3. A mechanism for controlling a clutch and the conditioning of a power transmission device to provide for different directions of movement of a vehicle, said clutch and device being connected in series between a propulsion motor and wheels of the vehicle, a change in condition of said transmission device being dependent upon a chosen electrical condition of an electric conductor, said mechanism comprising a clutch control member having a neutral, clutch disengaged position and at either side thereof a clutch driving position, fluid pressure power means for positioning said control member and operative by fluid under pressure supplied to one chamber for moving said control member from one of the driving positions to either said neutral position or to the other driving position and operative by fluid under pressure supplied to another chamber for moving said member from said other driving position to either said neutral position or to the first named driving position, electrically controlled means operative upon energization to supply fluid under pressure to one of said chambers and upon deenergization to vent fluid under pressure therefrom, other electrically controlled means operative upon energization to supply fluid under pressure to the other chamber and upon deenergization to vent fluid under pressure therefrom, a manually operative switch device having positions corresponding to the positions of said movable member and being operative only in said neutral position to provide said chosen electrical condition of said conductor, a selector switch movable with said member and cooperative with said manually operative switch device upon movement thereof to a selected position to effect energization of the electrically controlled means for operating said power means to move said member to the corresponding position, said selector switch being operative in said corresponding position to effect deenergization of the last named electrically controlled means.

2,279,366
CELLULOSE DERIVATIVE CREPE SHEETING
Henry R. Childs, Kingsport, Tenn., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application March 17, 1936, Serial No. 69,351
12 Claims. (Cl. 18—57)



1. A creped thermoplastic cellulose compound sheet.

2,279,367
TORCH
John C. Crowley, Cleveland Heights, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application March 3, 1938, Serial No. 193,733
11 Claims. (Cl. 158—27.4)

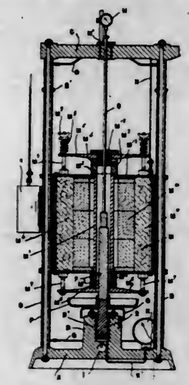


1. In a torch of the character described, a body having passages therethrough for oxygen and an inflammable gas to form a combustible mixture, a nozzle connected with said passages, flexible tubes in said passages and lining the same when normally expanded, said body being provided with openings extending laterally from said passages in the vicinity of said flexible tubes and with arcuate grooves in its outer surface located at the outer ends of said openings, plungers mounted in said openings having one of their ends in contact with said tubes and their other ends extending into said arcuate grooves, and a control member mounted concentrically with said arcuate grooves and provided with camming portions extending into said grooves and contacting with the ends of said plungers whereby rotation of said control member effects an inward movement of said plungers to collapse said tubes against the walls of said passages.

2,279,368
DILATOMETER
Harry W. Dietert, Detroit, Mich.
Application July 5, 1938, Serial No. 217,539
11 Claims. (Cl. 73—51)

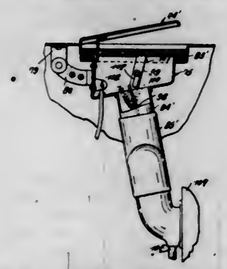
1. In a testing instrument of the character described, having a base, spaced columns, and an upper cross head; vertically spaced, relatively movable abutments between said base and said cross head for receiving therebetween a specimen to be tested, a tubular heater coaxial with said abutments; means on said heater slidably em-

bracing said columns to guide said heater axially of said abutments; and counterweight means sus-



pended from said cross head and operatively connected to said heater.

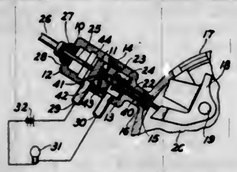
2,279,369
FRESH AIR INTAKE DEVICE
Howard J. Findley, Euclid, Ohio, assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application June 22, 1938, Serial No. 215,201
12 Claims. (Cl. 98—2)



1. In an automobile having a cowl opening and a movable lid therefor mounted on the cowl, a heater, an air intake box normally below the cowl and having an opening adapted to register substantially with the cowl opening and a tubular connection leading to the heater, means beneath the cowl mounting said box for movement to different positions relative to the cowl opening for controlling the delivery of fresh air into the automobile and the delivery of fresh air to the heater through said tubular connection, and means for opening and closing said lid and moving said box to said different positions.

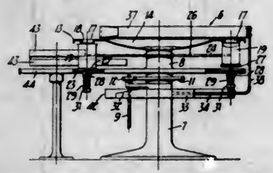
2,279,370
FLASHLIGHT SYNCHRONIZING DEVICE
John Warren Gillon, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application September 28, 1940, Serial No. 358,843
9 Claims. (Cl. 67—29)

1. In a flashlight synchronizing device for photography the combination with a shutter having a release member, of a housing, a plunger slidably mounted to move between an inoperative and an operative position in said housing and adapted to engage and actuate said release member when moved to said operative position, means for moving said plunger to said inoperative position, means for moving said plunger to said operative position, an electric circuit including an illuminant and a source of potential, means for electrically connecting one side of said circuit to said plunger and the other side thereof to said



release member whereby said circuit is adapted to be completed at the instant said plunger engages said release member, and means for preventing movement of said plunger from its inoperative position until sufficient force is applied thereto to insure its being moved to its operative position thereby.

2,279,371
PRODUCE CANNING MACHINE
Melvin Colin Gordon, Lincoln, Calif., assignor to Lincoln Packing Co., Lincoln, Calif., a corporation of California
Application May 10, 1938, Serial No. 207,055
1 Claim. (Cl. 226—96)

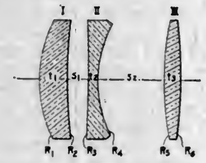


A produce canning machine comprising a circular rotatable table having a depressed basin in the center thereof and a ring of apertures surrounding said basin, means including a conveyor extending to the edge of said table for discharging produce near the edge of said table some to pass through and some to pass over adjacent ones of said apertures and into said basin, and means including a stationary barrier extending from the edge of said table to the margin of said basin for deflecting said produce from others of said apertures into said basin away from said ring of apertures.

2,279,372
PHOTOGRAPHIC OBJECTIVE
Maximilian J. Herzberger, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application October 3, 1940, Serial No. 359,585
2 Claims. (Cl. 88—57)

1. A photographic objective comprising two positive elements air spaced about a negative element, the index of refraction for the D line being greater than 1.6 for each of the elements, R_1 being between +.18F and +.33F, R_2 being between +F and +3F, R_3 being between −.7F and −1.7F, R_4 being between +.15F and +.35F, R_5 being between +.6F and +F, R_6 being between −.5F and −1.5F, S_1 being between .03F and .1F, S_2 being between .07F and .15F, where R_1 to R_6 are respectively the radii of curvature of the refractive surfaces numbered from the front to the rear of the lens, the radius in each case being positive or negative depending on

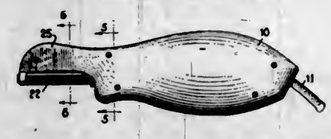
whether it is convex or concave to the incident light, where F is the focal length of the objective



EXAMPLE I			COVERING POWER 21°	
f 4.5		BACK FOCUS 96.9		F = 100 mm
LENS	N_D	ν	RADII	SPACINGS
I	1.6201	60.4	R_1 = +19.46 R_2 = +135.85	t_1 = 4.4 mm S_1 = 3.2 "
II	1.6252	35.6	R_3 = −161.48 R_4 = + 17.99	t_2 = 1.5 " S_2 = 10.2 "
III	1.7443	45.6	R_5 = + 78.10 R_6 = − 107.97	t_3 = 2.4 "

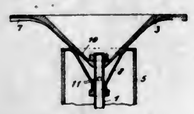
and where S_1 and S_2 are the front and rear axial air spaces between the elements of the objective.

2,279,373
ELECTRIC SHAVER
Earle G. Hines, West Milford, N. J., assignor to General Theatres Equipment Corporation, New York, N. Y., a corporation of Delaware
Application October 16, 1937, Serial No. 169,369
4 Claims. (Cl. 30—43)



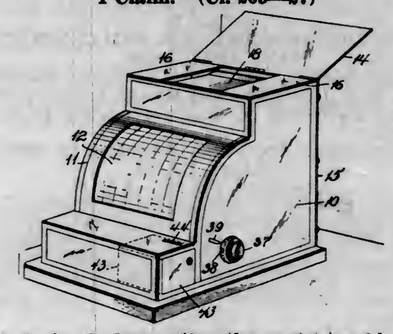
1. In an electric shaver, an elongated housing, a guide member having side faces forming an extension of said housing, said side faces of said member being substantially parallel with the central plane through the width of said housing, a guard having a circular bore and having longitudinally extending slots on opposite sides of said guard, the side of each of said slots forming a cutting edge, said cutting edges being in substantially the same planes as said faces and a rotary cutter in said bore adapted to cut whiskers between said cutter and edges.

2,279,374
WASHING INSTALLATION
Ernst Jung, Berlin-Friedenau, Germany, assignor to Hugo Lublinski, Berlin-Wilmersdorf, Germany
Application February 21, 1938, Serial No. 191,833
In Germany February 24, 1937
8 Claims. (Cl. 299—121)



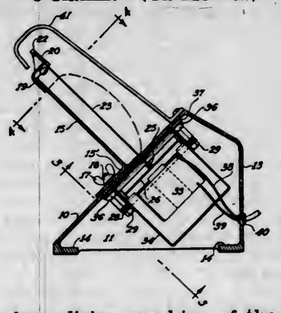
1. Water distributing head for a washing basin, including means for feeding free jets of water and means providing a guiding surface formed with a concavely arched generatrix immediately adjacent the outlets of said feeding means and provided with grooves for guiding the water, said grooves extending over the whole flowing path of the water along said guiding surface.

2,279,375
DEVICE FOR COMPUTING THE CONTENTS OF RECEPTACLES
Richard H. Manning, Newark, N. J.
Application November 16, 1938, Serial No. 240,634
1 Claim. (Cl. 265—27)



A device for computing the contents of bottles comprising a casing having an opening in the front, a spring scale inside the casing and including a platform for receiving a bottle, a pivoted lever connected at one end to the platform and having an indicator at the other end and adapted to pass across the opening, a chart arranged in rear of the opening and in rear of the indicator, a plate on which the chart is supported, a shelf on the plate, an eccentric on which the shelf rests, a shaft on which the eccentric is mounted, said shaft extending to the outside of the casing, a knob on the outside end of the shaft, and indicating means on the knob for showing the position of the chart relative to the indicator.

2,279,376
BUN SLICER
Sherman G. Marriott, Portland, Oreg.
Application September 3, 1940, Serial No. 355,216
8 Claims. (Cl. 146—72)



1. In a bun-slicing machine of the character described, a housing, said housing including a face plate constituting one side of the housing, said face plate inclined at an angle to the plane of the base of said housing, a guide plate mounted on said face plate and forming with said face plate a bun-supporting trough, a vibrating mechanism within said housing, a cutter blade extending through an opening in said face plate, one end of said blade attached to said vibrating mechanism, a spring member supporting the other end of said blade, said blade extending parallel to said guide plate, said blade being located a distance from said guide plate corresponding to the desired thickness of the bottom half of the sliced bun, whereby when the

bun to be sliced is placed in said trough, with its bottom face resting on said guide plate, and pushed against said blade, the bun will be cut into upper and lower half sections by said blade.

2,279,377

YARN TREATING PROCESS AND COMPOSITION THEREFOR

James G. McNally and Joseph B. Dickey, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application November 26, 1937, Serial No. 176,681
3 Claims. (Cl. 252—8.6)

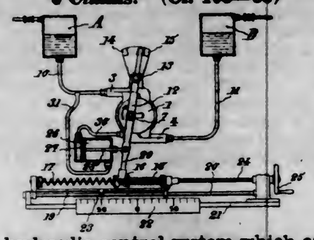
1. The process of conditioning yarn composed of or containing cellulose acetate to render it more amenable to textile operations including knitting, weaving, spinning and the like, which comprises applying thereto a lubricating and softening composition containing butyl oleyl ketone.

2,279,378

HYDRAULIC CONTROL SYSTEM

Maurice Partiot, New York, N. Y.

Application June 11, 1938, Serial No. 213,283
6 Claims. (Cl. 103—38)



1. A hydraulic control system which comprises, in combination, two passages for a liquid, a liquid pumping device including a pump, inserted in series between these two passages, adapted to be driven always in the same direction, and means movable between two extreme positions, capable of reversing the direction of flow of the liquid through said pump, for determining the rate of said flow within two given limits corresponding respectively to these extreme positions and consequently to opposed directions of said flow through the pump, manually adjustable means for yieldingly applying said movable means in at least one of said two extreme positions, and distinct means operative by the difference, either in one direction or the other, between the respective liquid pressures in said passages, for automatically controlling the position of said movable means.

2,279,379

WELL PUMPING APPARATUS

Roland Piotta, Carlyle, Ill.

Application October 9, 1940, Serial No. 360,506
8 Claims. (Cl. 74—593)



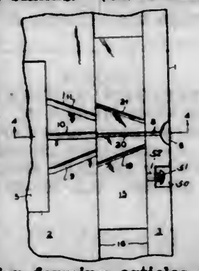
1. In well pumping equipment the combination of a power line, a pull line, a releasable safety connection between the power and pull lines including a hook line pivotally connected with the pull line and a loop pivotally connected with the hook link and adapted to be engaged by the power line for effecting a connection of the pull and power lines, a movable detent for engaging the hook link of said safety connection to hook off the pull line from the power line, and lever means for manually moving the detent into operating connection with said link of the safety connection and for also moving the loop of said safety connection from an inoperative position into connected relation with the power line.

2,279,380

INJECTION MOLD GATING

James S. Reid, Shaker Heights, Ohio, assignor, by mesne assignments, to The Standard Products Company, Port Clinton, Ohio, a corporation of Ohio

Application January 28, 1939, Serial No. 253,362
11 Claims. (Cl. 18—42)



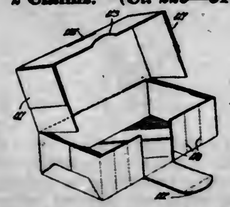
2. A mold for forming articles from organic plastic material by injection molding and comprising separable mold members having mutually cooperating meeting faces at a mold parting plane, said meeting faces being shaped to provide therebetween a mold cavity, one of said members having in its said meeting face a recess and supporting therein an adjustable block, said member also having a plurality of gate passages leading from different portions of said mold cavity to different portions of said recess, and said member having a sprue passage leading from said recess to the exterior surface of said mold member, and passage means in said block adapted to be adjustably registered with said sprue and at least one of said gate passages while out of registry with at least one other gate passage.

2,279,381

PACKAGING

Ralph R. Richardson, Chicago, Ill., assignor, by mesne assignments, to Chicago Carton Company, Chicago, Ill., a corporation of Delaware

Application December 24, 1937, Serial No. 181,572
2 Claims. (Cl. 229—51)



1. A carton comprising a receptacle having a side wall provided with a plurality of spaced scores extending substantially from top to bottom of the wall to facilitate successive separation from the wall and folding to an outwardly extending position substantially co-planar with the bottom of the carton, of strips of said side wall to thereby afford access to the receptacle content, and a cover formed integral with and hingedly connected to said receptacle for repeated opening and closing, said cover having a top wall adapted to overlie the top of the receptacle to close the same and a side wall adapted to overlie the opening formed in the receptacle wall portion for closing said opening, one of the receptacle wall portions intermediate adjacent scores being refoldable in outward overlying relation to the cover and being provided with a foldable lip, said cover being slitted to receive said lip for locking the cover in closed position.

2,279,382

SHINGLE AND METHOD OF MAKING THE SAME

George E. Swenson, Hastings on Hudson, N. Y., assignor to The Celotex Corporation, Chicago, Ill., a corporation of Delaware

Application June 20, 1938, Serial No. 214,817
5 Claims. (Cl. 108—8)



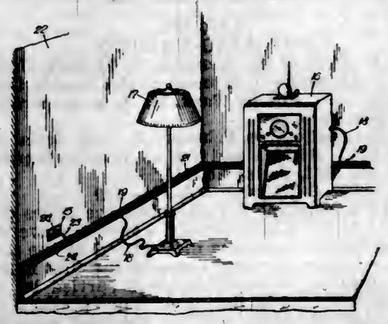
5. The method of treating and reinforcing a fibrous building covering member which comprises the immersion of thinned complementally formed edge portions thereof in an asphalt saturating bath to substantially completely saturate said thinned edge portions and as a step in the method, distinct and separate from the immersion and substantially complete saturation of a thin edge portion thereof the immersion of the entire building covering member in a bath of an asphaltic saturant for a time sufficient to impregnate only the outer surface portions thereof at and adjacent the faces of said member, the said building covering member removed from the bath upon impregnation of the outer surface portions thereof with the saturant whereby the inner core portion of said fibrous building covering member is not saturated.

2,279,383

ELECTRICAL OUTLET

George H. Von Gehr, Chicago, Ill.

Application April 24, 1939, Serial No. 269,553
10 Claims. (Cl. 191—23)



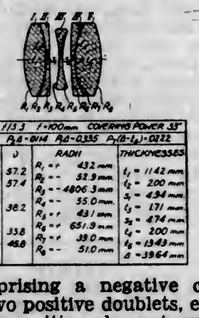
1. A continuous electrical outlet comprising a strip of flexible insulating material having a slot of uniform width throughout extending longitudinally of the strip and adapted to receive at least one outlet plug capable of adjustment substantially throughout the length of said slot, electrical conductors supported by said strip within said slot, said outlet plug having contact members cooperating with said electrical conductors, said outlet plug having means for preventing rotary movement of said plug as it is being adjusted along the length of said slot, resilient means arranged within said strip and operatively associated with said plug for urging said plug in a direction to enhance the electrical contact between said contact members and the electrical conductors.

2,279,384

PHOTOGRAPHIC OBJECTIVE

Fred E. Altman, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application January 9, 1941, Serial No. 373,785
18 Claims. (Cl. 88—57)



EXAMPLE I 1/3.3 f=100mm COVERING POWER 33°
P=.0033 P_2=.0114 P_3=.0335 $P_1=(P-(P_2+P_3))$=.0232

LENS	N_D	ν	RADII	THICKNESSES
I	1.611	57.2	R_1 = + 43.2 mm	t_1 = 11.42 mm
II	1.573	57.4	R_2 = − 52.9 mm	t_2 = 2.00 mm
			R_3 = − 4806.3 mm	s_1 = 4.34 mm
III	1.605	38.2	R_4 = − 35.0 mm	t_3 = 1.71 mm
			R_5 = + 43.1 mm	s_2 = 4.74 mm
IV	1.649	33.8	R_6 = + 65.1.9 mm	t_4 = 2.00 mm
V	1.744	48.8	R_7 = + 39.0 mm	t_5 = 13.43 mm
			R_8 = − 51.0 mm	d = 3.964 mm

1. A lens comprising a negative component spaced between two positive doublets, each of the doublets having a positive element cemented to a negative element, the negative element of each doublet being nearer the negative component, the cemented surface of each doublet being convex to the negative component, the positive element of each doublet having an index of refraction at least .025 greater than that of the negative element cemented thereto and in which

$$\frac{(N_{II}-N_I)\Delta}{N_I N_{II} R_2}$$

is between .006 and .016 where N_I and N_{II} are respectively the indices of refraction of the positive and negative elements of the front doublet, R_2 is the radius of curvature of the cemented surface of this front doublet and is negative, and Δ is the overall axial length of the lens.

2,279,385

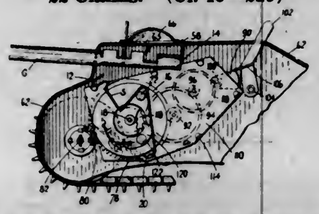
PROCESS FOR PURIFYING PHENYLENEDIAMINE DERIVATIVES

Marshall R. Brimer, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application December 23, 1940, Serial No. 371,397
8 Claims. (Cl. 260—577)

1. A process for removing colored impurities from a N,N'-dialkyl-p-phenylenediamine obtained from a condensation product produced by condensing, with the elimination of water, hydroquinone with a primary amine selected from the group consisting of primary alkyl primary amines and secondary alkyl primary amines containing at least four carbon atoms, comprising treating a salt of the phenylenediamine derivative with an alcohol selected from the group consisting of methyl, ethyl and isopropyl alcohols.

2,279,386
PROJECTILE SHOOTING TOY
Richard Nelson Carver, Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York
Application September 13, 1941, Serial No. 410,694
22 Claims. (Cl. 46—219)

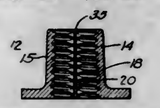


1. A toy comprising a spring motor having a shaft extending thereacross, a gun extending transversely over said shaft, a magazine for supporting a series of projectiles over the breech portion of said gun, an ejector spring having its upper end movable in a slot in the breech portion of the gun and having its lower end fixedly mounted beneath said gun and shaft, and a spring-tensioning wheel mounted on the shaft and arranged to bend the ejector spring rearwardly and to abruptly release the same for forward movement in order to eject the lowermost projectile from the gun, said wheel and ejector spring being so relatively shaped that the shaft of the motor does not interfere with the desired movement of the spring.

2,279,387
RESIN EMULSION WITH CONSTANT VISCOSITY
Harold C. Cheetham, Philadelphia, and Robert J. Myers, Elkins Park, Pa., assignors to The Resinous Products & Chemical Company, Philadelphia, Pa.
No Drawing. Application March 8, 1939, Serial No. 260,524
7 Claims. (Cl. 260—6)

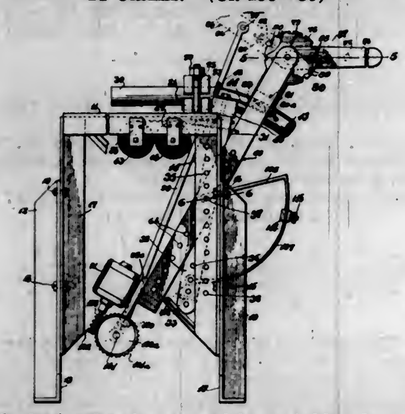
5. A water-base paint comprising pigment dispersed in an emulsion having as the continuous phase an aqueous casein solution whose initial viscosity has been reduced to a substantially constant value, and as the dispersed phase a drying oil-modified alkyd resin, and containing as a thickening agent, a chemically stable organic compound from the group consisting of water-soluble alginates.

2,279,388
LOCK NUT AND METHOD OF MAKING THE SAME
Joseph F. Cox, Arlington, Mass.
Application August 14, 1941, Serial No. 406,790
10 Claims. (Cl. 10—86)



1. The method of making a lock-nut which comprises subjecting a strip of sheet metal to progressive stamping and drawing operations to form a stage product having a barrel portion provided with at least one longitudinally extending expansion rib defining at least one radially expansible segment and a relatively rigid non-yielding base portion, threading the interior of the expansible segment, and subjecting the threaded segment to a closing-in operation to reduce the effective diameter of the upper end portion of the barrel without appreciably changing the radius of curvature of the expansible segment, while leaving the base portion in substantially its original condition.

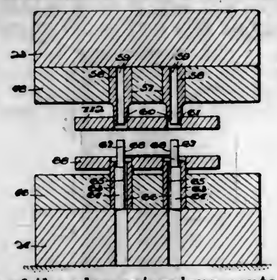
2,279,389
PIPE AND TUBE BENDER
Thomas W. Delaney, St. Paul, Minn.
Application November 19, 1940, Serial No. 366,298
14 Claims. (Cl. 153—39)



1. A pipe bender comprising a table, clamping means on the table for securing one end of a pipe in position, a frame pivoted on the table, a sleeve rotatably mounted at one end of the frame, a pair of lever arms secured to the opposite end of the sleeve, a bending block pivoted at the free ends of the lever arms, an operating lever mounted on the sleeve between the lever arms, means for removably connecting the lever with the lever arms so that when force is applied to the operating lever it will exert a greatly increased pressure on the pipe for the purpose of bending said pipe, a movable forming block adapted to support the pipe inwardly of the bending block when the pipe is being bent, means supporting the forming block and arranged for movement in a path corresponding to the path of the bending block, and means for maintaining the forming block in operative relation with the bending block during bending of the work.

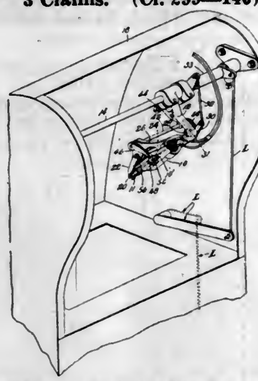
2,279,390
NOTCHING MACHINE
John W. Ekstedt and Kenneth W. Ekstedt, Union, N. J., assignors to General Eyelet Supply Company, Inc., Roselle Park, N. J., a corporation of New Jersey
Original application February 6, 1940, Serial No. 317,604. Divided and this application September 15, 1941, Serial No. 410,960
6 Claims. (Cl. 164—50)

1. In a machine for notching the edges of a strip to be fed longitudinally, a shoe, transversely spaced tubular notching dies carried by the shoe, a second shoe arranged opposite the first named shoe, tubular notching punches carried by the second shoe and having their inner portions cut away for providing cutting surfaces arranged above the free ends of the tubular notching punches, plugs arranged within the tubular dies and having inner flat faces providing passages within the tubular dies for the blanks stamped from the strip, said plugs having reduced upper extensions having inner flat faces in alignment with the first named inner flat faces, the inner



flat faces of the plug extensions contacting with the edges of the strip and serving to guide the strip.

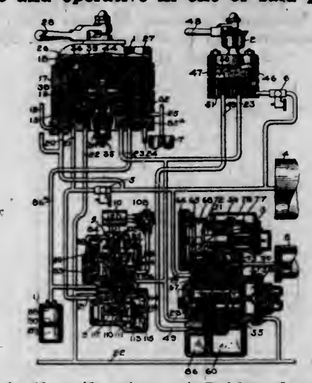
2,279,391
PROTECTIVE CAP FOR SPRAY GUNS
Andrew Eppler, Jr., Lynn, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application January 10, 1940, Serial No. 313,150
3 Claims. (Cl. 299—140)



1. A spray gun having a discharge valve and a nozzle, a cap for covering the nozzle mounted for movement toward and away therefrom, an arm fixed to the cap, a lever having an end adapted to embrace the valve, a pair of parallel spindles, said arm and lever being fixed to the adjacent ends of said spindles, a cam finger and a lever having a cam surface fixed to the opposite ends of said spindles, said cam finger lying in the path of movement of the cam surface, the movement of the lever in one direction operating to turn the spindle to which it is fixed to remove the cap from the nozzle and thereafter to actuate said cam finger to open the discharge valve, and movement of the lever in the opposite direction operating first to release the cam finger to permit the discharge valve to close and thereafter to return the cap to cover the nozzle.

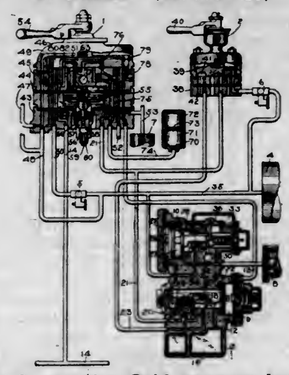
2,279,392
LOCOMOTIVE BRAKE CONTROL SYSTEM
Clyde C. Farmer, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application December 31, 1940, Serial No. 372,438
14 Claims. (Cl. 303—40)

1. In a locomotive fluid pressure brake equipment, in combination, a brake pipe, a communication to which fluid under pressure is adapted to be supplied to effect an application of locomotive brakes to a degree depending upon the pressure of fluid in said communication, valve means operative upon a reduction in brake pipe pressure to supply fluid under pressure to said communication in an amount proportional to the degree of brake pipe reduction, an engineer's brake valve device having two service positions for effecting a service reduction in brake pipe pressure and operative in one of said positions



but not in the other to vent fluid under pressure from said communication, reduction limiting means operative in said one service position to automatically limit the reduction in brake pipe pressure effected by said brake valve device to a chosen degree, and means operative at the termination of said chosen degree of reduction in brake pipe pressure to supply fluid under pressure to said communication in an amount to compensate for the fluid vented therefrom by said brake valve device during said chosen reduction in brake pipe pressure.

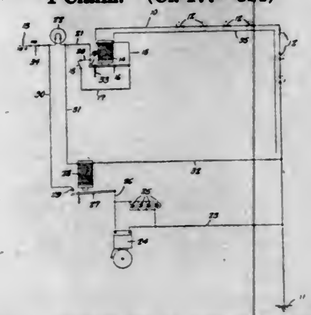
2,279,393
LOCOMOTIVE BRAKE EQUIPMENT
Glenn T. McClure, Wilmerding, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application November 28, 1940, Serial No. 367,502
40 Claims. (Cl. 303—40)



1. In a locomotive fluid pressure brake equipment, in combination, a brake pipe, means operative upon a variation in pressure in a communication for effecting an application of locomotive brakes, an engineer's automatic brake valve de-

vice movable to a first service position for effecting a reduction in brake pipe pressure without disturbing the pressure in said communication and to another position for also effecting a reduction in brake pipe pressure and for at the same time effecting a variation in pressure in said communication, and means operative to limit the reduction in brake pipe pressure in said first service position of said brake valve device.

2,279,394
CLOSED CIRCUIT ALARM
William Fountain, Mason, Mich.
Application May 8, 1941, Serial No. 392,561
1 Claim. (Cl. 177—314)



In alarm apparatus, a normally open alarm circuit, an alarm device in the circuit, a relay having contacts in the alarm circuit and having a coil, a source of electricity grounded on one side and connected to one of said contacts, a normally closed protective circuit grounded at one end and connected to the source of electricity in parallel with said coil of the alarm circuit relay, a circuit breaker in the closed protective circuit, a low wattage device in the closed protective circuit, a normally open protective circuit extending coincident with the closed protective circuit and insulated from the closed protective circuit, a relay having a coil of less resistance than the alarm circuit relay coil connected to and located between said protective circuits and said source of electricity, the second named relay having contacts in the closed protective circuit adapted to be opened by deenergizing of the coil of the second named relay when the closed protective circuit is interrupted at said circuit breaker or when the open protective circuit is surreptitiously cross connected with and grounded by the open protective circuit through the medium of a metal cutting tool, and a normally open manually controlled switch connected to said source of electricity and to the coil of the second named relay in a shunt circuit around the contacts of the second named relay, closing of the manually controlled switch energizing the coil of the second named relay to reestablish the circuit closing position of the contacts of the second named relay and close the closed protective circuit, the arrangement being such that when the closed protective circuit is opened the full voltage from the source of electricity flows through the coil of the first named relay to energized the relay and move the contacts thereof into circuit closing position to energize the alarm circuit.

2,279,395
RELAY
Laurance E. Gardiner, Stratford, N. J.
Application December 24, 1940, Serial No. 371,560
12 Claims. (Cl. 200—104)

1. A relay having a winding, an armature movable with respect to said winding, a contact member mounted beyond one end of said winding, and a movable contact member fixedly supported at one end, said movable contact member having a spring arm portion for engagement by



said armature and a contact supporting arm portion extending angularly from said spring arm portion, said supporting arm portion having a contact portion movable into and out of contact with said first-mentioned contact member.

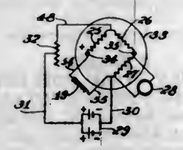
2,279,396
DRINKING TUBE
Christian Hanson, Jr., Rockaway Park, N. Y.
Application May 7, 1941, Serial No. 392,371
1 Claim. (Cl. 299—17)



A drinking tube of the soda-straw type, having a cross-section approximating an ellipse, the tube being bowed in a direction at right angles to the major axis of the ellipse, the tube being formed of material which is stiff enough to hold the bow until the tube is straightened by an operator, the approximately-elliptical cross section of the tube facilitating the bowing of the tube, considering the nature of the material from which it is formed.

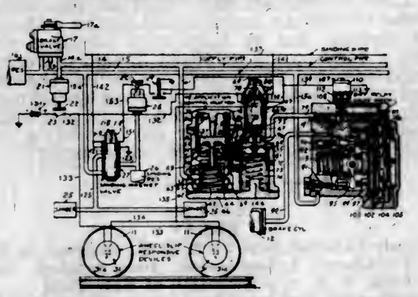
2,279,397
COMBUSTIBLE GAS INDICATOR
Ralph E. Hartline, Swissvale, Pa., assignor to Mine Safety Appliances Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application December 19, 1939, Serial No. 310,050
5 Claims. (Cl. 23—255)

5. Gas testing apparatus comprising a combustion chamber provided with inlet and outlet ports for gas to be tested, means for causing gas to flow through said chamber, a catalytically active testing filament disposed in said chamber for contact with gas passed therethrough, a Wheatstone bridge circuit including said filament in one branch, and in the other branch in parallel with said filament a compensating circuit-stabilizing element comprising a fixed resistance connected to a resistor whose resistance is a function of the



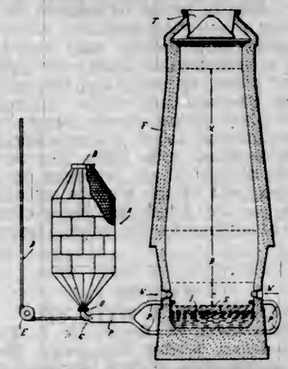
applied voltage, the ratio of the variation of resistance of said filament to that of said compensating element for a given variation of the common potential applied to them approximating, but not equaling, the ratio of the absolute magnitudes of said filament and compensating element resistances, means associated with said circuit for indicating flow of current therein, a rheostat for simultaneously adjusting the circuit balance and the filament voltage, and a source of electric current connected to said bridge.

2,279,398
BRAKE CONTROL APPARATUS
Ellis E. Hewitt, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application October 31, 1940, Serial No. 363,591
9 Claims. (Cl. 303—21)



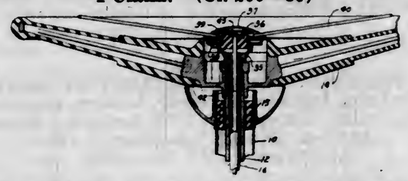
1. Vehicle wheel brake control apparatus of the type in which the brakes associated with the wheels are applied and released under the control of the operator of the vehicle comprising, in combination, means responsive to the rotative deceleration of a wheel of the vehicle at a slipping rate caused by application of the brakes, means controlled by said wheel-slip-responsive means and operative when the said wheel slips for effecting a rapid release of the brakes associated with said wheel so that the wheel ceases to decelerate and accelerates back toward a speed corresponding to vehicle speed without locking and operative thereafter to cause reapplication of the brakes on the said wheel to either of two different degrees, and means for causing the last said means to effect reapplication of the brakes selectively to the one or the other of said two different degrees depending upon whether a certain uniform time has or has not elapsed following the instant the wheel first begins to slip during any one application of the brakes.

2,279,399
BLAST FURNACE PROCESS
Carl G. Hogberg and George E. Steudel, Chicago, Ill.
Application October 4, 1939, Serial No. 297,940
2 Claims. (Cl. 75—41)



1. The method of reducing iron ores in a blast furnace which includes charging into the upper part of the furnace iron ore admixed with carbon, preheating finely divided calcinated limestone, blowing by preheated air the preheated finely divided calcinated limestone into the lower part of the furnace at a point below the normal fusion zone thereof but above the zone of molten material on the furnace hearth, regulating the introduction of the preheated air and the preheated finely divided calcinated limestone to produce stratification of the limestone in a layer immediately adjacent to and overlying the surface of the molten metal bath within the furnace hearth, and continuing the introduction of the preheated air blast and the preheated finely divided calcinated limestone until there has been introduced to the blast furnace a quantity of limestone approximately equivalent to that required by the ash in the carbon burned.

2,279,400
MOTOR VEHICLE TURN INDICATOR
Charles L. Holm, Dearborn, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application January 11, 1940, Serial No. 313,368
1 Claim. (Cl. 200—59)



In a vehicle steering mechanism, in combination, a fixed tubular member and a rotatable tubular member therein, constituting a steering column and steering shaft, respectively, a steering gear housing disposed at the lower end of said column, a steering wheel attached to the upper end and a steering gear attached to the lower end of said shaft, a second tubular member rotatably mounted within said shaft constituting a signal tube, said column, shaft and signal tube being substantially coaxial, a hub secured to the upper end of said signal tube and adapted to rotate therewith, said signal tube extending downwardly through said steering shaft and said steer-

ing gear, a movable switch plate secured to the lower end of said signal tube, a fixed switch plate secured to said gear housing co-operating with said movable switch plate, a resilient detent and recess means operable between said switch plates, whereby said movable switch plate and signal tube are resiliently urged to remain at any one of a plurality of selective positions, a horn spider plate rockably mounted on said hub to rotate therewith, a semicircular spider secured to said horn spider plate, an electrical contact carried by said hub, co-operating contact means on said horn spider plate, spring means normally urging said contact means apart, the rotational movement of said signal tube being independent of the rotation of said shaft, whereby on rotation of said spider said switch may be selectively operated as a part of a turn indicator circuit, and on rocking of said spider the vehicle horn may be energized.

2,279,401

SCREW STICK WITH STOP

Miller R. Hutchison, Jr., Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application June 21, 1941, Serial No. 399,120

5 Claims. (Cl. 85—41)



1. A screw stick for use as a unit in applying an end screw of the screw stick to work by a force applied to another screw of the stick and comprising a plurality of integrally connected coaxially arranged screws of uniform dimensions, each screw including a torsional driving head, a threaded portion, and a relatively narrow neck connecting the threaded portion of one screw to the next adjacent screw head, the relatively narrow neck portion being so proportioned relative to the threaded portion of the screw that the neck portion may be broken by driving torsion when said end screw is properly seated in work, and an unformed end on the screw stick of a length considerably greater than the thickness of a screw head.

2,279,402

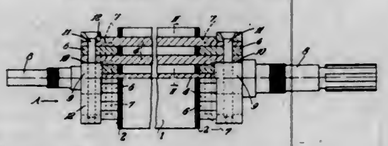
ALTERNATING CURRENT ELECTRIC MOTOR

Nicholas Japolsky, Highgate, London, England

Application November 2, 1939, Serial No. 302,469

In Great Britain November 22, 1938

5 Claims. (Cl. 172—120)



1. For a self-synchronising synchronous motor a two-pole rotor comprising a body portion, a plurality of slots within the peripheral confines of said body portion, said slots extending longitudinally through the body portion, and substantially parallel to a plane passing through the axis of the rotor so as to leave between them in the body portion substantially parallel paths of minimum magnetic reluctance, conductor bars arranged in the said slots, said bars extending beyond the ends of the body portion so as to be exposed at their ends, packing pieces arranged between the exposed ends of the conductor bars so as to short circuit said bars, and a shaft for the body portion, said shaft being in two parts secured respectively to the exposed ends of the conductor bars.

2,279,403

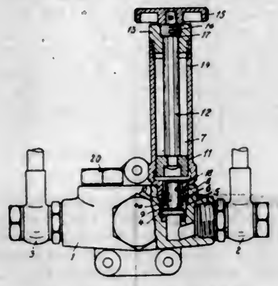
FUEL SUPPLY PUMP FOR INTERNAL COMBUSTION ENGINES

August Kottmann, Stuttgart, Germany, assignor to Robert Bosch Gesellschaft mit beschränkter Haftung, Stuttgart, Germany

Application October 3, 1939, Serial No. 297,758

In Germany October 22, 1938

2 Claims. (Cl. 103—203)



2. In a mechanically operated fuel supply pump including a pump casing having a threaded opening, and an inlet valve having a stem and a valve spring arranged in said opening, a hand-operated pump having a hollow threaded end screwed into said opening whereby said pump opens into the interior of said casing, said hollow end serving as a guide for the inlet valve stem and as a casing for the inlet valve spring.

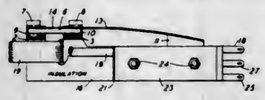
2,279,404

RELAY

Emory Lakatos, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application November 27, 1940, Serial No. 367,340

11 Claims. (Cl. 200—93)



1. In a relay, a first core of magnetic material having a plurality of pole-pieces, a second core of magnetic material insulated therefrom and having its magnetically polarized pole-pieces overlying the pole-pieces of said first core, a spring supported armature normally attracted into conductive engagement with the pole-pieces of said second core, and a coil surrounding corresponding pole-pieces of said cores and energizable to oppositely polarize the pole-pieces of each core to disengage said armature from the pole-pieces of said second core and to conductively engage said armature with the pole-pieces of said first core.

2,279,405

BEDDING FOR POULTRY AND ANIMALS

Carl D. Laughlin, Drexel Hill, Pa., assignor to Attapulgus Clay Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application November 29, 1939, Serial No. 306,771

2 Claims. (Cl. 119—1)

2. A method of bedding poultry and animals which comprises providing a bed of granular fuller's earth which has been sterilized by heating at temperatures between 250° F. and 1200° F., and utilizing such earth bedding for poultry or animals.

2,279,406

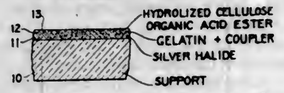
COLOR PROCESS USING CELLULOSE ESTER EMULSIONS

John A. Leermakers and Scheuring S. Fierke, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application December 26, 1940, Serial No. 371,650

In Great Britain December 29, 1939

5 Claims. (Cl. 95—7)



1. The method of producing a color-forming photographic layer, which comprises mixing, in alkaline solution, gelatin with a color-forming compound capable of reacting with a primary aromatic amino developing agent on photographic development, acidifying the solution to form a fine dispersion of the color-forming compound in the gelatin, and dispersing the gelatin and color-forming compound in a water-permeable cellulose ester-silver halide emulsion.

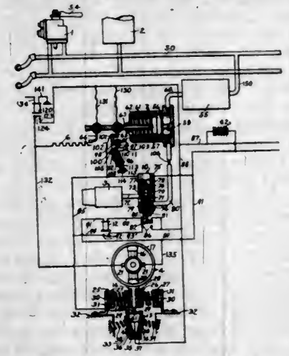
2,279,407

ELECTRIC AND FLUID PRESSURE BRAKE CONTROL

Joseph C. McCune, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application January 30, 1941, Serial No. 376,591

16 Claims. (Cl. 303—3)



1. In a vehicle brake system, in combination, fluid pressure brake means, electric brake means, a communication through which fluid under pressure may be supplied to effect an application of the fluid pressure brake means, means for supplying fluid under pressure to said communication, means responsive to the pressure of fluid supplied to said communication for effecting an application of the electric brake means, and means responsive to the torque of the electric brake means as long as the braking effect of the electric brake means is above a chosen value for maintaining said communication closed to the fluid pressure brake means.

2,279,408

SEPARATION OF CONSTITUENTS OF ANIMAL AND VEGETABLE OILS AND RESIDUE FROM REFINING THEREOF

Dan McDonald, Santa Monica, Calif., assignor to Erwin H. Haas, as trustee

Application June 6, 1939, Serial No. 277,638

18 Claims. (Cl. 260—428)

1. In processing oleaginous material, the steps of: adding aqueous alcohol, counterflowing a chlorinated hydrocarbon relative to the oleaginous material and the aqueous alcohol for solvent-extracting oleaginous constituents, the alcohol being not more than approximately 50% by volume of the total alcohol-water content.

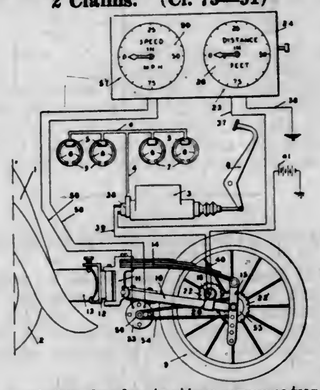
2,279,409

BRAKE TESTING APPARATUS

Arthur N. Milster, Ferguson, and John C. Cox, St. Louis, Mo., assignors to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware

Application February 23, 1939, Serial No. 257,948

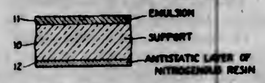
2 Claims. (Cl. 73—51)



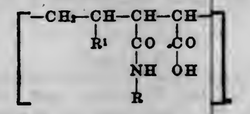
1. A portable brake testing apparatus for association with a vehicle provided with a fluid-actuated brake system to thus permit the obtaining of the linear distance the vehicle travels after the brakes have been applied, said apparatus comprising a road engaging wheel other than a wheel of the vehicle and provided with means for ready attachment to and detachment from the vehicle, a distance indicating instrument including a movable member, a ratchet mechanism for moving said movable member, means including an electrically-operated magnet for operating the ratchet mechanism, an electrical circuit for said magnet, a timer mounted adjacent the road engaging wheel and including a movable contacting element for making and breaking said circuit, means for moving said contacting element by the road engaging wheel so as to intermittently energize said magnet, a switch for said circuit, and means for closing said switch by fluid pressure in the brake system when said fluid pressure is sufficient to apply the brakes, said distance indicating instrument, the ratchet mechanism and the magnet being housed as a unit, and said electrical circuit including electrical conductors of such length as to permit the

housed unit to be moved as desired and positioned at a remote distance from the road engaging wheel.

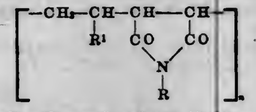
2,279,410
ANTISTATIC LAYERS
Gale F. Nadeau, Norwood L. Simmons and William O. Kenyon, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application February 18, 1941, Serial No. 379,458
11 Claims. (Cl. 95—9)



1. A light sensitive photographic film which comprises a cellulose ester support, an emulsion layer, and a backing layer of a synthetic resin selected from the group of resins having the formula



and



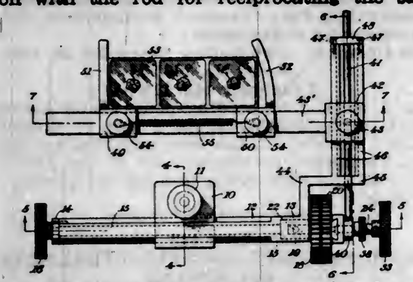
and the salts thereof, where R is a substituent selected from the group consisting of alkyl, aryl, hydrogenated aryl and alkyl-aryl, R^1 is a substituent selected from the group consisting of acyloxyl, alkoxyl, hydroxyl, aromatic, aliphatic, hydroaromatic, carboxyl, carboxylic ester, acid amide, halogen and acyl, and n is a large integer.

2,279,411
COUPLERS COMBINED WITH HARDENING AGENTS
Willard D. Peterson, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application November 26, 1940, Serial No. 367,215. In Great Britain January 18, 1940.
8 Claims. (Cl. 95—6)

1. The method of rendering color couplers non-diffusing in gelatino-silver halide emulsions, which comprises mixing with the emulsion a coupler containing a primary amino group and a group reactive with the development product of a primary amino developing agent, and a gelatin organic hardening agent containing at least two carbonyl groups capable of reacting with the coupler and with gelatin, and producing therein a reaction of the gelatin, coupler and hardening agent.

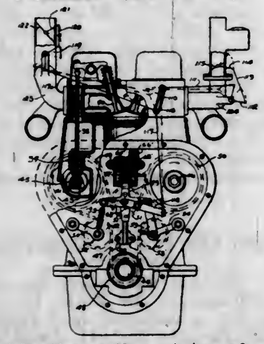
2,279,412
MICROSCOPIC CARRIAGE
Victor M. Posada, San Salvador, El Salvador
Application October 17, 1939, Serial No. 299,886
3 Claims. (Cl. 88—40)

1. In a microscope having a support table, a carriage slidably mounted on the table, a rotary screw shaft carried by the carriage operative to adjust the latter longitudinally of the table, a reciprocating rod mounted on the carriage and extending transversely of the table, specimen holding means attached to the said rod, a drive gear fixed on the screw shaft, a companion gear rotatably supported on the shaft having connection with the rod for reciprocating the same



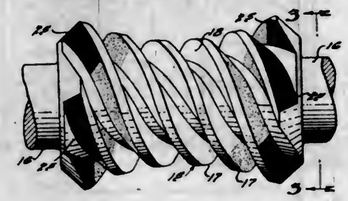
upon rotation of the companion gear, and a pinion selectively engageable with the said gears for independent or simultaneous operation of the screw shaft and reciprocating rod.

2,279,413
INTERNAL COMBUSTION ENGINE
Balfour Read, Detroit, Mich.
Application February 23, 1939, Serial No. 257,779
In Great Britain February 24, 1938
5 Claims. (Cl. 123—75)



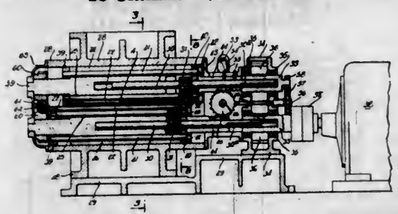
1. In combination with an internal combustion engine having a cylinder provided with two inlet valves and two exhaust valves, a crankshaft, a pair of cam shafts, an operative connection between one of each of said pairs of valves with each of said cam shafts for operating said valves, one of said cam shafts being arranged to open and close the cooperating inlet valve in advance of the opening and closing of the remaining inlet valve by the remaining cam shaft during operation of said engine, means forming a driving connection between said cam shafts and said crankshaft for driving said cam shafts in timed relation with said crankshaft, shiftable elements associated with said driving connection operable to vary said timed relation whereby to enable the overall inlet and exhaust periods of each cycle of operation of said engine to be varied, means for shifting said shiftable elements during operation of said engine in response to variations of speed of said engine, a throttle valve associated with each of said inlet valves for controlling the feed of fluid thereto, means for feeding air only to the first mentioned inlet valves, means for feeding a carburetted mixture to said remaining inlet valve, and means interconnecting said throttle valves so constructed and arranged as to cause said throttle valve controlling the flow of air to one of said inlet valves to close in advance to closing of the throttle valve controlling the flow of carburetted mixture to the other of said inlet valves during closing movements of both of said throttle valves.

2,279,414
WORM FOR USE IN DOUBLE ENVELOPING WORM GEARING
George R. Scott, Detroit, Mich.
Application October 24, 1940, Serial No. 362,492
8 Claims. (Cl. 74—458)



1. A worm for use in a double enveloping system of worm gearing, said worm having a thread with flanks thereon adapted to engage the teeth of a mating worm wheel, said thread flanks being sinuously warped whereby a plane passing through the axis of said worm will form straight line intersections with said thread flanks and said straight line intersections will in extension be tangent to a common base circle, at least a portion of said thread flanks being provided with a gradually increasing relief toward the ends of the bearing portions thereof whereby to obtain maximum bearing under load.

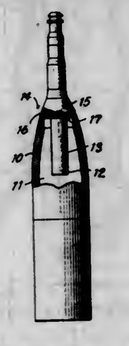
2,279,415
METHOD AND APPARATUS FOR DRAWING STRIP
Aaron Simons, Bronx, N. Y.
Application April 25, 1940, Serial No. 331,508
18 Claims. (Cl. 205—1)



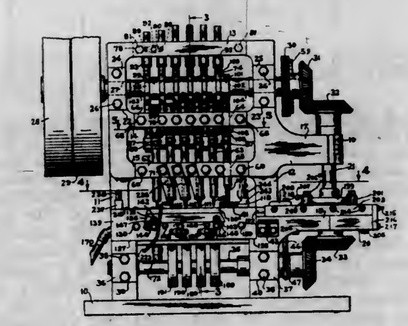
1. An apparatus for drawing elongated workpieces to reduce the thickness thereof, comprising a pair of elongated die members, means for drawing the workpiece between said die members, a pair of friction bearings extending throughout the length of and operatively engaging each die member, means for rotating said bearings to frictionally rotate the die members, and means for reciprocating the die members in opposite directions to each other transversely of the direction of travel of the workpiece and longitudinally of the axes of said die members while said die members are rotated on their axes.

2,279,416
EXUDATE TRAP FOR SHELLS
Walter O. Snelling, Allentown, Pa., assignor to Trojan Powder Company, Allentown, Pa.
Application March 18, 1939, Serial No. 262,731
6 Claims. (Cl. 102—30)

1. A shell comprising a single-walled container for explosive, a solid liquid-exuding explosive charge substantially filling the container, a booster charge casing extending within the container and into the explosive charge at the end thereof that is forward when the shell is fired, and a member located inside the shell, in proximity to the booster casing, and provided with a recess in front of the said forward end of the explosive charge, the recess being left unfilled during filling of the shell with explosive and being open to receive liquid exuded by the explosive during storage of the shell.



2,279,417
MULTIPLE PUNCH PRESS
Carlton R. Stevens, Waterbury, Conn.
Application January 27, 1940, Serial No. 315,978
12 Claims. (Cl. 113—40)

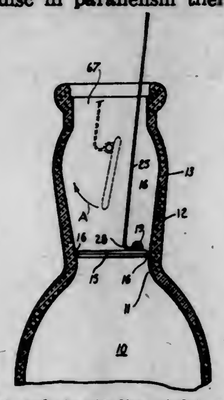


1. In a punch press, a reciprocable punch-holding plunger, a cam-engaging bumper plug in said plunger, means to axially adjust said plug relatively to said plunger including a wedge slidable transversely through said plunger, said plug having a tongue extension at its lower end for engaging between said wedge and the inner surface of said plunger, and a screw threaded into said plunger and adapted to engage said wedge and press it against said tongue to prevent twisting of said bumper plug.

2,279,418
CREAM SEPARATOR
William C. Teuniss, Grand Rapids, Mich.
Application October 21, 1939, Serial No. 300,495
1 Claim. (Cl. 210—51.5)

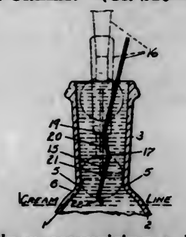
In combination, a disc, a handle pivoted to one face of the disc away from the center of the disc,

the handle extending inwardly towards the center of the disc in parallelism thereto and then



upwardly at substantially right angles to the plane of the disc.

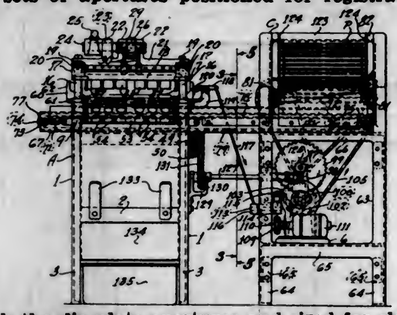
2,279,419
MILK CONTAINER AND INTERNAL CLOSURE OR SEPARATOR
William C. Teunisz, Grand Rapids, Mich.
Application June 13, 1940, Serial No. 340,361
11 Claims. (Cl. 210—51.5)



1. A container comprising a lower milk portion and an upper cream portion, the wall of the cream portion immediately above the milk portion being downwardly tapered, and an internal separator disk having a diameter somewhat greater than the smallest diameter of the tapered wall, the degree of taper of said tapered wall being such that the disk may be wedgingly engaged with the same, the disk having a handle hinged thereto and extending substantially in the plane of the disk, the handle also having a hinge spaced from the edge of the disk a distance less than the radius of the disk so that the portion of the handle between the hinges may be collapsed upon the disk by thrust imparted to the handle to facilitate the wedging of the disk into sealing position.

2,279,420
BISCUIT CUTTING AND PANNING MACHINERY
Walter A. Thum, St. Louis, Mo., assignor to Papendick, Inc., St. Louis, Mo., a corporation of Missouri
Application September 6, 1940, Serial No. 355,628
14 Claims. (Cl. 107—6)

1. A biscuit cutting and panning machine including a die-plate having a plurality of spaced apertures, a reciprocable head-member having a plurality of downwardly presented dough-cutters arranged for co-operable sliding engagement in the die-plate apertures, and a continuous belt movable over the die-plate and having a plurality of sets of apertures positioned for registration

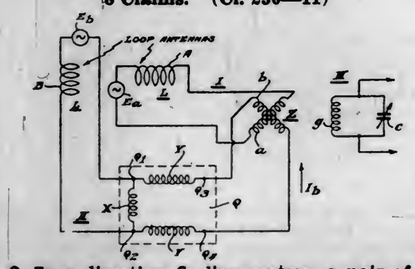


with the die-plate apertures and sized for clearance of the dough-cutters.

2,279,421
COCCIDIOSIS CONTROL
Wendell Holmes Tisdale, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 8, 1939, Serial No. 288,990
11 Claims. (Cl. 167—53.1)

10. A coccidiosis control composition for internal application to prevent development of coccidiosis in animals susceptible to the disease which contains as its essential active ingredient tetraethylthiuram monosulfide.

2,279,422
DIRECTIONAL ANTENNA
Henry Vaudoux, Paris, France, assignor to Compagnie Generale de Telegraphie sans Fil, a corporation of France
Application June 6, 1940, Serial No. 339,163
In France April 6, 1939
8 Claims. (Cl. 250—11)



2. In a direction finding system, a pair of directional antennas, a goniometer having field coils coupled respectively to said antennas, and means comprising an impedance network connected between one of said antennas and its associated field coil for attenuating the amplitude of the current flowing in said field coil while maintaining the phase of said current the same as that of the current which would flow in said field coil in the absence of said network.

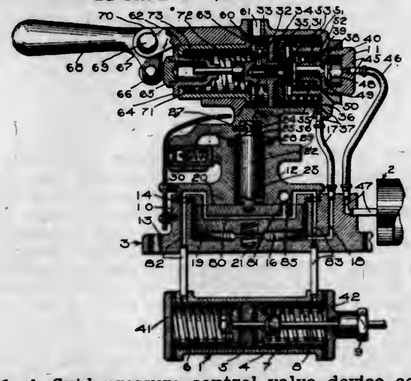
2,279,423
FILTER
Cecil Gordon Vokes, London, England
Application September 11, 1939, Serial No. 294,398
In Great Britain September 23, 1938
5 Claims. (Cl. 210—169)

1. A filter to pass liquid from inside to outside a space wholly within a filtering unit, the filtering unit comprising a filtering screen made up of attached layers of filtering material and resiliently reinforcing material, the filtering screen being bent with the filtering material inside to form a closed figure having pockets projecting



from a center space within the figure, a foraminous enclosure enclosing and compressing the screen, and spacing means at the entry to each pocket from the central space, the said spacing means serving to preserve an opening to permit unfiltered fluid entering the pockets from the central space.

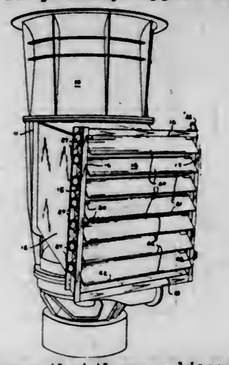
2,279,424
CONTROL VALVE DEVICE
Edward E. Von Behren, St. Louis, Mo., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application May 31, 1940, Serial No. 338,249
14 Claims. (Cl. 303—6)



1. A fluid pressure control valve device comprising in combination, a casing having a rotatable part and a stationary part, a valve movable by said rotatable part to either one or another of a plurality of positions for selectively establishing various communications through which fluid under pressure is adapted to flow, actuating means for said rotatable part movable in one plane to position said valve, said actuating means being also operative independently of the valve positioning movement, and a self-lapping valve mechanism carried by said rotatable part controlled by the independent operation of said actuating means for varying the degree of the pressure of fluid in the communication established by said valve.

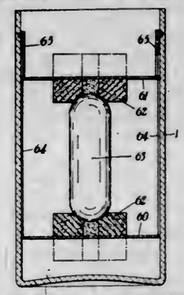
2,279,425
DISCHARGE SHUTTER FOR BLOWERS
Alfred E. Voysey, Prospect Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 16, 1939, Serial No. 304,660
6 Claims. (Cl. 230—114)

1. In a blower having a casing provided with a discharge opening, a group of vanes for opening and closing the discharge opening; said group of vanes, when in closed position, having the leading edge of a first outside vane and the trailing edge of a second outside vane spaced close to opposed sides of the discharge opening and, except for said second outside vane, having their trailing edges overlapping the leading edges of adjacent vanes at the downstream side of the group; means for pivotally supporting the vanes



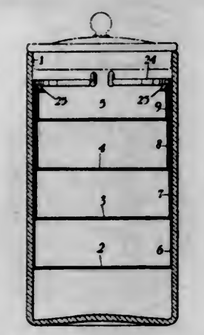
from the casing so that they are biased in a closing direction upon cessation of blower pressure and are opened in response to development of blower pressure; a spring for exerting force on the vanes in opening and closing directions; and means providing for said spring exerting its force on the vanes in a closing direction when the latter are nearly closed and are closed and for exerting its force thereon in an opening direction in all other positions thereof.

2,279,426
INTERNAL FITTING FOR JARS, BOTTLES, CANS, BOXES, SHOWCASES, AND OTHER HOLLOW CONTAINERS
William Walsh, London, England
Application April 11, 1938, Serial No. 201,396
In Great Britain May 7, 1937
5 Claims. (Cl. 220—22)



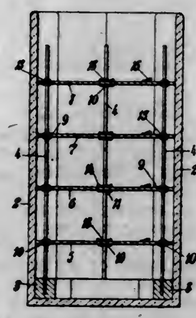
1. An internal fitting for hollow containers, comprising a plurality of spaced superposed shelves, a plurality of supporting arms attached to each shelf and arranged longitudinally of the container and in overlapping relation with the arms on the adjacent shelves, said arms each being provided with a stud near the upper end thereof and being made of springy material, and corresponding indentures provided in the inner wall of the container and in each of the outer arms to receive the studs on the arms of adjacent shelves, whereby the shelves are secured and held in position.

2,279,427
INTERNAL FITTING FOR CONTAINERS
William Walsh, London, England
Original application April 11, 1938, Serial No. 201,396. Divided and this application January 5, 1939, Serial No. 249,500. In Great Britain May 7, 1937
3 Claims. (Cl. 220—22)



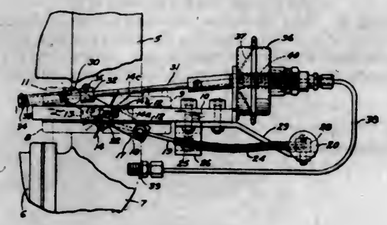
1. An internal fitting for cylindrical containers comprising, a disc arranged transversely of the container, a pair of integral strips extending from diametrically opposite parts of said discs along an inner wall of the cylindrical container, a second disc arranged transversely of the container and spaced from the first disc, said second disc having diametrically arranged apertures therein for receiving said strips, a pair of integral strips extending from said second disc adjacent said apertures along the strips of the first disc and terminating adjacent ends of the first strips, an annular spring gripping the inner wall of the cylindrical container, and angular flanges carried by said annular spring engaging said strips and forcing the strips of the second disc into engagement with the strips of the first disc and the strips of the first disc into engagement with the inner wall of the cylindrical container.

2,279,428
INTERNAL FITTING FOR HOLLOW CONTAINERS
William Walsh, London, England
Application March 7, 1939, Serial No. 260,445
In Great Britain February 15, 1939
4 Claims. (Cl. 220—22)



1. An internal fitting for hollow containers comprising a plurality of shelves arranged transversely of the container, a supporting base member mounted upon the floor of the container, a plurality of screw threaded upright members mounted in said base member and extending in the general direction of length of the container through elongated apertures in said shelves, a plurality of nuts screwed on to said upright members for supporting said shelves in the container in spaced relationship, said nuts being provided with lateral arms for co-operating with the apertures in said shelves, said lateral arms being of such length as to be capable of passing through said apertures when in one position and to be incapable of passing through such apertures when in another position.

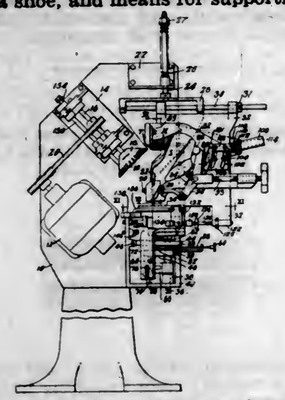
2,279,429
SPEED LIMIT CONTROL
Stewart E. Watterworth and Austin A. Quirk, Bridgeport, Conn.
Application May 21, 1940, Serial No. 336,366
5 Claims. (Cl. 137—153)



1. In a device of the character described, a block adapted to be mounted between the carburetor and the intake manifold of an automobile engine and having a passage therethrough for the gaseous mixture, a valve in said passage, a shaft on which the valve is mounted, a lever on said shaft, a rod having sliding connection with one arm of said lever, a suction operated device connected to said rod, a stop on the rod between the lever and the suction device and adapted to engage said lever to open the valve, a compression spring on the rod at the other side of the lever to permit the lever to move independently of the rod, a spring tending to shift the rod to open the valve, said suction device being responsive to suction to shift the valve toward closed position, a flexible wire having sliding connection with the other arm of the lever, a stop on said wire to limit closing movement of the valve under action of the suction device, and manually operable means adjustable from the driver's position to adjust the position of said stop.

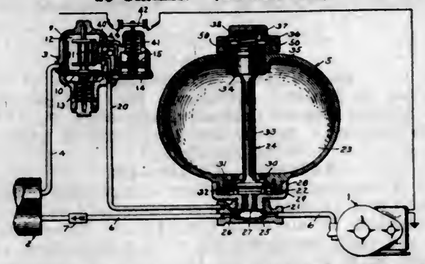
2,279,430
METHOD OF AND MACHINE FOR HEEL BREASTING
Erastus E. Winkley, Lynn, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application January 11, 1940, Serial No. 313,409
36 Claims. (Cl. 12—47.1)

1. A heel-breasting machine comprising, in combination, a breasting tool having a plurality of teeth adapted to cut transversely of an attached heel and constructed and arranged to produce a substantially vertically straight and laterally concave breast from lift surface to breast line without interference with other portions of a shoe, and means for supporting a shoe



for movement of its heel against said tool to breast said heel.

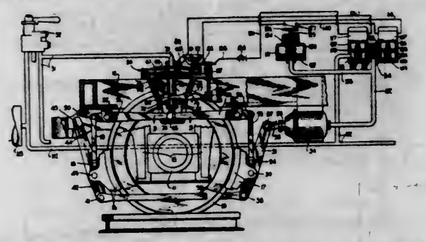
2,279,431
COMPRESSOR CONTROL MEANS
Burton S. Aikman, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application August 31, 1940, Serial No. 354,935
15 Claims. (Cl. 230—24)



1. In a pressure control apparatus, the combination with a compressor and a compressor governor subject to the pressure of fluid discharged by the compressor, of an unloading receptacle into which said compressor compresses fluid, means independent of said governor and subject to the pressure of fluid discharged by said compressor for limiting the pressure of fluid supplied to said receptacle, and other means operated by a moving part of said governor for effecting operation of said means to effect the release of fluid under pressure from said receptacle.

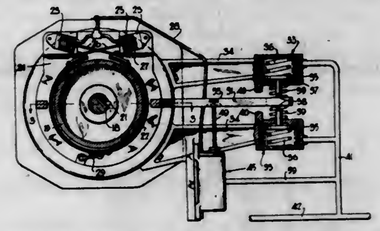
2,279,432
BRAKE CONTROL MEANS
Burton S. Aikman, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application August 31, 1939, Serial No. 292,831
7 Claims. (Cl. 303—21)

1. In a brake mechanism for a railway truck having a wheel, in combination, a brake element operatively mounted for braking engagement with a braking surface rotatable with the wheel, fluid pressure actuating means for operating said brake element, means for supporting said brake element from the truck including a pivotally mounted lever subject to a resultant force due to braking torque produced upon engagement of the brake element with the braking surface, a movable abutment subject to a control fluid pressure variable in accordance with any desired degree of application of the brakes, and means controlling the supply and release of fluid under pressure to and from said fluid pressure actu-



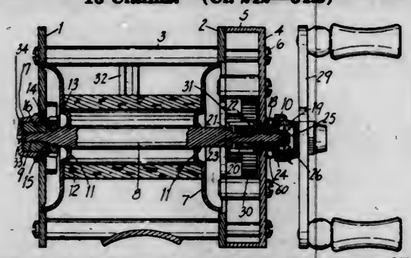
ating means including an element operatively interposed between said movable abutment and said torque responsive lever, said means being constructed and arranged to produce a retarding force which is maintained in proportion to said control fluid pressure.

2,279,433
BRAKE CONTROL DEVICE
John W. Logan, Jr., Forest Hills, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application March 23, 1939, Serial No. 263,591
9 Claims. (Cl. 303—21)



1. Vehicle brake equipment comprising, in combination, fluid pressure operated brake means for exerting a braking force on a vehicle wheel, means movably responsive to the torque exerted on the brake means during an application thereof, a control pipe chargeable with fluid at different pressures corresponding to a selected degree of application of the brake means, a movable abutment subject to the pressure established in said control pipe and arranged in a manner so that the fluid pressure force acting thereon opposes displacement of the said torque responsive means out of a given normal position thereof, and valve means having an operating member connected to said torque responsive means, said valve means being normally conditioned to establish communication through which fluid under pressure is supplied from said control pipe to the fluid pressure operated means and adapted to be operated upon an increasing displacement of the torque responsive means out of its normal position to successively cut off the supply of fluid under pressure to the fluid pressure operated brake means and release fluid under pressure therefrom, whereby to control the operating pressure of the fluid pressure operated brake means so as to cause the brake means to exert a substantially constant braking force corresponding to the degree of pressure established in the said control pipe.

2,279,434
FISHING REEL
William G. Balz, Kalamazoo, Mich., assignor to Shakespeare Company, Kalamazoo, Mich.
Application February 18, 1939, Serial No. 257,146
18 Claims. (Cl. 242—84.5)



13. In a fishing reel, the combination with a frame, a spool provided with a spindle having tail and head bearing members secured thereto adjacent its ends and rotatable therewith, bearings therefor on said frame, said bearing members being of large diameter relative to said spindle ends and acting in conjunction with said bearings to normally constitute substantial frictional drag means for retarding rotation of the spool, and a bearing cap threaded for adjustment on one of said bearings and having thrust relation to one of the said bearing members for providing additional and variable frictional drag action for the spool.

2,279,435
HAIR NET
Elaine Berg, Chicago, Ill.
Application November 4, 1940, Serial No. 364,172
6 Claims. (Cl. 132—49)

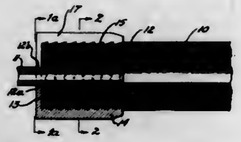


1. In a hair net including a net body and an elastic edge, a visor member adapted to fit substantially across the forehead of the wearer in forwardly and downwardly extending position, the rear edge of the visor member being secured to the elastic edge of the net, and the said net body being secured to the visor member on the upper side thereof forwardly of the rear edge of the member whereby the net will have a tendency to tilt the visor upwardly.

2,279,436
PROCESS FOR POLYMERIZING VINYL COMPOUNDS
Herbert Berg, Burghausen, Germany, assignor to Chemische Forschungsgesellschaft, m. b. H., Bavaria, Germany
No Drawing. Application January 13, 1936, Serial No. 58,873. In Germany January 19, 1935
4 Claims. (Cl. 260—85)

1. A method of polymerizing a compound containing a vinyl group to produce a non-caking, globular product, which comprises dispersing the compound in water, partially polymerizing the compound, adding to the dispersion a partially saponified derivative of a saponifiable polymer of a substance containing the vinyl group in a quantity not exceeding about 0.1% by weight on the said compound, and thereafter continuing the polymerization of said compound.

2,279,437
HOSE CONNECTOR
Samuel B. Beugler, Los Angeles, Calif.
Application June 19, 1940, Serial No. 341,297
2 Claims. (Cl. 285—84)



1. A compression ferrule for a hose connector which has a tubular stem insertible in the hose end, said ferrule consisting exclusively of a hollow cylindric body wall with an inwardly extending stem engaging flange at one end, the wall and flange being slotted through at one side only so as to allow the ferrule wall to be radially compressed by circumferential bending into compressing engagement with the hose and the flange to be compressed into engagement with the stem, the wall and flange being composed of relatively non-elastic, deformable metal and of such thickness as to inherently retain their bent set against the expansive forces of the compressed hose.

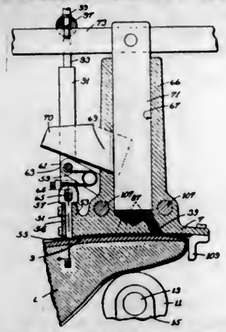
2,279,438
RESINOUS COMPOSITION
Walter D. Bowlby, Allentown, Pa., assignor to Trojan Powder Company, Allentown, Pa.
No Drawing. Application September 27, 1938, Serial No. 231,933
5 Claims. (Cl. 260—16)

1. A composition of matter comprising nitrostarch and an alkyd resin characterized by being hardenable in air at a temperature below 120° C., the resin being present in the proportion of about 50 to 90 parts for 100 parts of combined weight of nitrostarch and resin, the said resin having an iodine number of approximately 65 to 135 and including an ester of a polyhydric alcohol with a polycarboxylic acid and drying oil fatty acid and the drying oil fatty acid represented being in the proportion of about 1 to 7 equivalent proportions for 3 of the polycarboxylic acid.

2,279,439
LACQUER COMPOSITION
Walter D. Bowlby, Allentown, Pa., assignor to Trojan Powder Company, Allentown, Pa.
No Drawing. Application September 30, 1938, Serial No. 232,532
1 Claim. (Cl. 260—9)

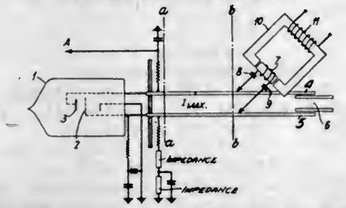
A lacquer comprising nitrostarch, a polyvinyl acetal acetate resin having a low viscosity of 20 to 200 centipoises in a solution containing 20 parts of the resin in 80 parts of toluol, and a volatile solvent medium for the nitrostarch and resin, the composition including the resin of low viscosity giving on spraying and subsequent drying a film that is free from hair-like strands and the proportions of the several materials being about as follows: Nitrostarch 3 to 15 parts; polyvinyl acetal acetate resin 10 to 25 parts; plasticizer in amount not substantially in excess of 5 parts for 100 parts of the lacquer.

2,279,440
SHOE FILLING MACHINE
William Neil Bray and Charles Martin Bagshaw, Leicester, England, assignors to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application August 13, 1940, Serial No. 352,438
In Great Britain August 24, 1939
8 Claims. (Cl. 12—79.6)



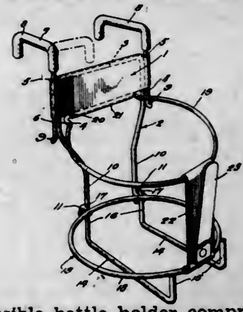
1. A machine for operating upon a welt shoe to fill the cavity in the bottom thereof which is bounded, except at the rear, by the inseam, said machine comprising a stationary plate, a support adapted to engage the toe portion of the shoe, means for causing the support to press the inseam into firm contact with the plate, said plate having passing through it an opening the cross-section of which is small compared to the area of the cavity in the bottom of the shoe, a receptacle for filling material, said receptacle being carried by the plate and communicating at all times with the opening, and means for forcing filling material from the receptacle through the opening and beneath the plate and causing it to flow over the surface of the insole of the shoe and in so flowing to spread to the extent permitted by the inseam.

2,279,441
ULTRA SHORT WAVE GENERATOR
Kurt Buchmann and Harry Zuhrt, Berlin, Germany, assignors to "Fides" Gesellschaft fur die Verwaltung und Verwertung von gewerblichen Schutzrechten, m. b. H., Berlin, Germany, a corporation of Germany
Application May 15, 1940, Serial No. 335,200
In Germany March 31, 1939
8 Claims. (Cl. 250—36)



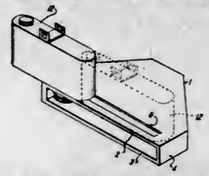
1. Ultra-short wave apparatus comprising an oscillation generator having input and output electrodes, a Lecher wire system one conductor of which is connected to an input electrode and the other conductor of which is connected to an output electrode, means for controlling the frequency of said generator in dependence upon the resonance of said Lecher wire system, said means comprising an induction coil wound on a low-loss core of magnetic material and coupled to points along said Lecher wire system where an optimum mutual reactance exists between the currents of said coil and said Lecher wire system, and means for varying the magnetic flux in said core.

2,279,442
COLLAPSIBLE BOTTLE HOLDER
James B. Burns and Thomas L. Keith, Atlanta, Ga.
Application March 11, 1941, Serial No. 382,800
4 Claims. (Cl. 248—311)



2. Collapsible bottle holder comprising a vertically disposed bracket plate, suspending hooks hinged on vertical axes at opposite sides of said bracket plate to swing into and out of the plane of said plate, suspending legs depending from the bracket plate, and a bottle receiver having upper and lower ring shaped members independently hingedly connected at their rear sides one to said bracket and the other to said suspending legs along spaced parallel axes, and a link interconnecting said members at their front sides, the length of said link being equal to the distance between said axes.

2,279,443
STEREOSCOPIC ATTACHMENT FOR CAMERAS
Adolph Chanosky, Fort Worth, Tex.
Application May 11, 1940, Serial No. 334,488
6 Claims. (Cl. 95—86)

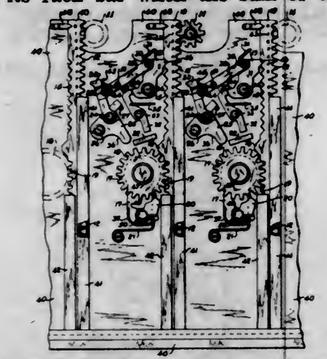


1. In combination with a camera, a stereoscopic attachment comprising a base, the said base forming a substantially triangular housing adapted to be supported by a tripod, means operative in a slot in the said base adjustably supporting the said camera and providing for limited lateral movement thereof and means including a spring for effecting the said movement.

2,279,444
CALCULATING MACHINE
George S. Christie, Paterson, N. J.
Application July 1, 1940, Serial No. 343,324
14 Claims. (Cl. 235—137)

1. A device of the type described comprising, a plurality of rack bars one for each column of digits to be added, means for independently raising the respective rack bars distances equal to

the value of the digits added in the column, detent means for temporarily retaining each rack bar in its raised position representing an accumulation of the distances raised and equal to the value of the sum of the digits added, disengaging means for freeing said detent means from its rack bar when the sum of the digits



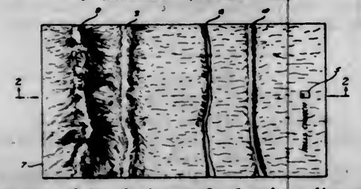
added on that rack bar is equal to or greater than ten, whereby said rack bar may drop free of said detent means, and a transfer mechanism operated by said rack bar for limiting said drop to a distance equal to ten digits and raising the adjacent rack bar of higher order a distance equal to one digit.

2,279,445
RESISTOR
William E. Clancy, St. Marys, Pa., assignor to Stackpole Carbon Company, St. Marys, Pa., a corporation of Pennsylvania
Application March 15, 1941, Serial No. 383,579
3 Claims. (Cl. 201—63)



1. A resistor comprising a molded body of resistance material, and a foraminous piece of metal embedded in each of two opposite surfaces thereof with the outer surfaces of the metal pieces exposed, said metal pieces and body being provided with a common passage therethrough for the reception of a fastening member.

2,279,446
RELIEF MAP
Hereward Lester Cooke, Princeton, N. J., assignor to Aero Survey Corporation, a corporation of Delaware
Original application October 8, 1930, Serial No. 487,175. Divided and this application November 19, 1934, Serial No. 753,597
7 Claims. (Cl. 35—41)



1. An aerial photograph having its picture bearing surface of uneven contour corresponding substantially with the contour of the territory and the objects which are photographically represented and having a vertical scale different from the horizontal scale.

2,279,447
SHOCK ABSORBER STRUT OR OLEO LEG FOR AIRCRAFT
Leonard Eugene Cowey, Kew Gardens, England
Application April 6, 1940, Serial No. 328,230
In Great Britain September 22, 1939
8 Claims. (Cl. 244—104)

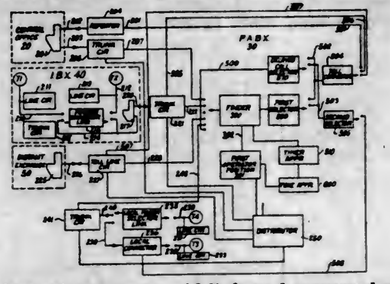


1. A shock absorber strut for aircraft tail wheel or nose wheel landing gear units, comprising a compression cylinder for containing the shock absorbing fluid, a piston slidably mounted therein, a coupling member attached to said piston and adapted for connection with a wheel fork or other wheel carrying member, a piston like member located within said cylinder and serving to divide said cylinder into upper and lower compartments, said piston like member having an oil passage for the transfer of fluid from one compartment to the other, a tubular sleeve surrounding said cylinder in which sleeve said cylinder can rotate about its axis and have a limited endwise sliding movement within said sleeve, a bracket on said cylinder for carrying the wheel fork or other wheel carrying member, and a self centering cam and co-operating rollers carried by said sleeve and said cylinder, said cam and rollers being maintained in operative engagement when the wheel is in contact with the ground by the upward thrust exerted by the wheel under the weight of the aircraft to produce a self centering action but permit of a castoring movement.

2,279,448
TELEPHONE SYSTEM
Thomas F. Crocker, Chicago, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application November 18, 1940, Serial No. 366,127
24 Claims. (Cl. 179—27)

1. In a telephone system, a plurality of lines, an operator position, a link, means selectively controllable from said operator position for connecting said link to and for disconnecting said link from said operator position, means for connecting said link to a calling one of said lines, means for connecting said link to a called one of said lines, means responsive to the connection of said link to a busy called line for impressing a busy signal upon said link, whereby said busy signal impressed upon said link is transmitted to the calling line connected to said link and also to said operator position in the event said

link is connected to said operator position, a signal device associated with said operator position, and means responsive to the presence of



said busy signal upon said link and governed only in the event said link is disconnected from said operator position for controlling said signal device.

2,279,449
KEY CONTAINER
Armin J. Dieckmann, Saginaw, Mich.
Application February 15, 1941, Serial No. 379,138
5 Claims. (Cl. 70—456)



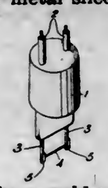
1. A key container comprising a case for partially sheathing at least two keys, means embodied in the case upon which the keys are loosely held for eventual swinging out of the case into operative positions, and means on the case correlated with the keys for compelling a sequential displacement of the keys into said operative positions.

2,279,450
GASKET
Lloyd H. Diehl, Detroit, Mich., assignor to Detroit Gasket & Mfg. Co., Detroit, Mich., a corporation of Michigan
No Drawing. Application January 8, 1941, Serial No. 373,686
2 Claims. (Cl. 288—34)

1. A gasket for use in locations exposed to the action of heat, oil, organic solvents, and caustic washing solutions comprising synthetic rubber, asbestos fibres, and comminuted cork, the said ingredients being in proportions effective to produce a gasket having a Shore durometer hardness of not less than 75 nor more than 100.

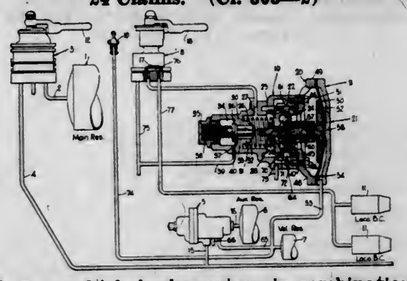
2,279,451
ELECTRIC BLASTING INITIATOR
Myrle Hardt English, Pompton Lakes, N. J., and Roland Roswell Nydegger, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application November 9, 1939, Serial No. 303,570
4 Claims. (Cl. 102—10)

1. In an electric blasting initiator including bridge posts, a bridge wire suspended between said bridge posts, and an explosive charge adjacent to said bridge wire, junctures between the bridge wire and each of the bridge posts, wherein the bridge wire is disposed between the bridge post and a separate and distinct metal unit, comprising a strip of metal sheeting, said junctures



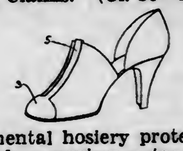
being completed by a weld which holds together the bridge posts, bridge wire, and metal unit.

2,279,452
BRAKE CONTROL MEANS
Clyde C. Farmer, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application May 31, 1940, Serial No. 337,983
24 Claims. (Cl. 303—2)



1. In a vehicle brake system, in combination, a brake pipe normally charged with air under pressure, a brake cylinder, a steam pressure supply source, air pressure responsive means operative to supply steam from said source to the brake cylinder to effect an application of the brakes, and means responsive to a reduction in brake pipe pressure for supplying air under pressure to effect the operation of said air responsive means to its steam supplying position.

2,279,453
HOSIERY PROTECTOR
Lawrence J. Finnan, Jr., New Castle County, Del., assignor of one-half to Ernest M. Symmes, Wilmington, Del.
Application February 14, 1941, Serial No. 378,879
2 Claims. (Cl. 36—1)

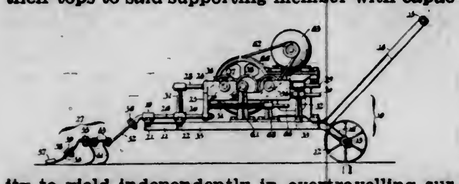


1. An ornamental hosiery protector for open-toe shoes which comprises a toe cap consisting of a transparent cellulose derivative and an upwardly-extending, narrow tongue of the same material extending up to and under the top of the vamp of the shoe.

2,279,454
FLOOR SCRAPER
Herbert Fischer, Plumsteadville, Pa.
Application January 4, 1941, Serial No. 373,079
10 Claims. (Cl. 30—272)

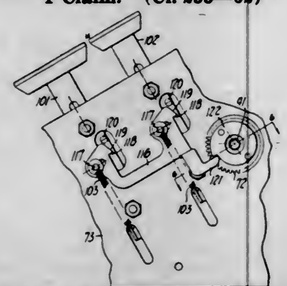
1. A floor scraper comprising a scraping member which includes a supporting element, and a

series of transversely arranged juxtapositioned spring scraping blades individually secured at their tops to said supporting member with capac-



ity to yield independently in overtravelling surface irregularities in the floor while under pressure; and means whereby the scraping member may be propelled over the floor.

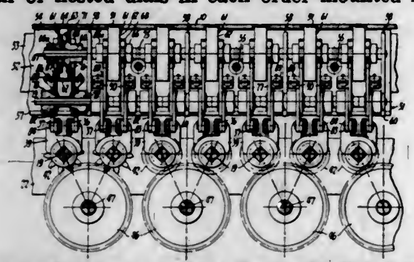
2,279,455
CALCULATING MACHINE
Carl M. F. Friden, Piedmont, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Application June 2, 1937, Serial No. 145,979
1 Claim. (Cl. 235—62)



In a calculating machine having numeral wheels, cyclically operable rotary actuating means therefor of the uni-directional type, settable plus-minus gearing interposed between said numeral wheels and said actuating means, and full cycle mechanism for maintaining the setting of said plus-minus gearing during each cycle of operation of said actuating means; respective plus and minus keys mounted in juxtaposed relation for endwise sliding movement, a plus-minus slide connected to said plus-minus gearing and operable by either of said keys, means controlled by said keys for driving said actuating means through one or more cycles of operation without interruption in response to manual depression of a key and to manual release of the depressed key, a common latch slide for said keys, yieldable means urging said slide to active position, and a cam driven in time with said actuating means for moving said slide to inactive position during each cycle of operation of said actuating means, said latch slide insuring maintenance of said settable gearing in set position at the beginning of a cycle of operation until said full cycle mechanism becomes effective and said cam insuring release of the depressed key to allow stopping of the operation at the end of the selected cycle of operation.

2,279,456
CALCULATING MACHINE
Carl M. Friden, Pleasanton, and John L. Moody, Oakland, Calif., assignors to Friden Calculating Machine Co., Inc., a corporation of California
Application March 8, 1940, Serial No. 322,952
6 Claims. (Cl. 235—1)

1. In a calculating machine having differential selecting mechanism including a pair of settable elements in each order adjustable to represent different value ranges of the same series of values, value displaying means including a pair of nested dials in each order mounted for



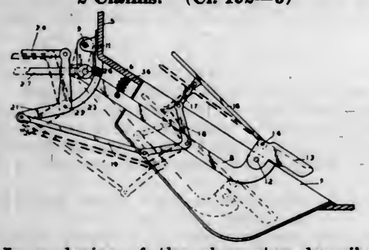
independent movement, each of said dials being connected to one of the associated pair of said elements for adjustment thereby, the outer of said dials being apertured to permit viewing of the inner dial in the home position of said outer dial.

2,279,457
PISTOL CATAPULT
Theodore F. Gensmer, Portland, Oreg.
Application January 31, 1940, Serial No. 316,528
5 Claims. (Cl. 124—21)



5. A pistol catapult comprising a single strip of metal forming a channel shaped member having a pistol grip at one end thereof, a trigger journaled in the side walls of said channel adjacent the upper end of the pistol grip, said channel immediately forward of said trigger having parallel side walls so spaced apart as to frictionally engage an object to be discharged from the catapult and releasably hold it therewithin, said channel forward of said parallel walls being of substantially enlarged cross section and forming a runway.

2,279,458
COMBINED HEEL BRAKE AND ACCELERATOR PEDAL
Jack C. Harkness, Alameda, Calif.
Application August 13, 1941, Serial No. 406,621
2 Claims. (Cl. 192—3)



1. In a device of the character described, a support, a brake lever pivoted thereto, a heel plate pivoted to the free end of said brake lever, an accelerator pedal pivoted to said heel plate, a bracket extending below and to one side of said support and pivoted linkage carried by said bracket and said brake lever, said linkage being connected to said accelerator pedal and to a push rod, the pivotal connections of said bracket and said brake lever being offset with respect to each other, and a brake push rod connected to said lever.

2,279,459
SIGN AND DISPLAY DEVICE
Ellery G. Harris, Cleveland, Ohio, assignor to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application February 27, 1941, Serial No. 380,896
2 Claims. (Cl. 41—22)

1. A reproduction of a pictorial design or the like consisting of a panel which is coated with a suitable background color, a plurality of colors applied through a stencil screen on said background in the form of minute dots capable of maintaining their size and contour to correspond substantially exactly with a design fixed in said screen and which contain color pigments in sufficient quantity to be substantially nonfading when subjected to prolonged exposure to sunlight and which dots are so arranged and distributed as to form the desired design and color effects by association of the different colors in varying quantitative relations, the thickness of said dots being of such order that they are substantially incapable of casting shadows.

2,279,460
CLOTHESPIN
Isaac Harter, Akron, Ohio
Application September 5, 1940, Serial No. 355,419
4 Claims. (Cl. 24—138)

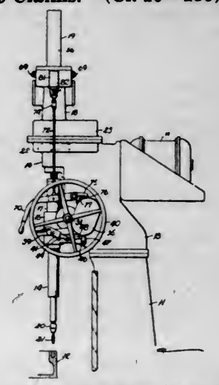


3. A clothespin formed of a piece of wood slotted lengthwise from one end and having a crotch extending diametrically across the piece which is convexly semi-circular in the plane of the slot and concavely semi-circular at right angles to said plane.

2,279,461
TREATMENT OF MINERAL OIL PRODUCTS
Emil Hene, London, England
No Drawing. Application June 17, 1939, Serial No. 279,741. In Great Britain June 18, 1938
2 Claims. (Cl. 196—40)

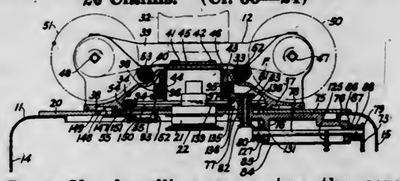
1. The process of treating mineral oil distillates for effecting the separation of sludge and sludge forming impurities which comprises admixing sulphuric acid with the mineral oil distillate in the proportion of between 2 and 3 pounds of the former to one barrel of the latter, allowing the mixture to stand for a period of the order of five minutes, separating the sludge from the distillate, and adding to the distillate a very small proportion of an adsorptive material, to promote the conversion of sludge forming constituents in the oil into sludge, and removing from the distillate the sludge so formed.

2,279,462
COMBINED DRILLING AND TAPPING MACHINE
Chester O. Holland, Roscoe T. Brokaw, and Elmer F. Lundeen, Rockford, Ill., assignors to Barnes Drill Company, Rockford, Ill., a corporation of Illinois
Application April 1, 1940, Serial No. 327,132
19 Claims. (Cl. 10—136)



10. In a combined drilling and tapping machine, in combination, a rotatable and reciprocable tool spindle, tapping feed mechanism for imparting feed movements to the spindle including a lead screw, drilling feed mechanism for imparting feed movements to the spindle including a train of gears, manually operable means for engaging said tapping feed mechanism, other manually operable means for engaging the drilling feed mechanism, and a mechanical interlock associated with said manually operable means for preventing engagement of more than one feed mechanism at a time.

2,279,463
FILM HANDLING APPARATUS
Roy S. Hopkins, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 27, 1939, Serial No. 311,177
20 Claims. (Cl. 88—24)



1. In a film handling apparatus, the combination with a casing including a wall, an objective member having an optical axis and mounted on said wall, a film supporting head provided with an internal annular groove and with an internal cavity for said objective member and carrying a film gate including a stationary gate member and a movable gate member for frictionally engaging and supporting a film strip, a plurality of rollers having peripheries complementary in contour to said groove and supporting said head on said wall for rotation about said optical axis so that a film strip between said gate members is in the focal plane of said objective member, and a winding means including spindles and driven members connected thereto on said head and including a shaft rotatably mounted in said casing and connected to said

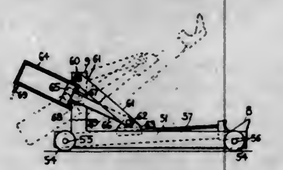
driven members, an endless drive member on said casing for rotating said shaft, and a winding member on said casing for moving said endless drive member, of a gate opening means including a rockable cradle arranged to be rocked upon movement of said endless drive member and operatively connected to open said movable gate member when said cradle is rocked, friction drag means on said head and engaging an element of the winding means on said head for creating resistance to movement of said winding means elements on the head greater than the resistance to movement of the winding elements on said casing or the resistance to rocking of said cradle, and a detent means between said head and said wall and for positioning said head in one of several predetermined positions and for overcoming the tendency of said winding means to rotate said head.

2,279,464
RAMP FOR AUTOMOBILES
Alexis Jackson, Rochester, N. Y., assignor to Vadim S. Makaroff, New York, N. Y.
Application April 15, 1940, Serial No. 329,671
1 Claim. (Cl. 254—88)



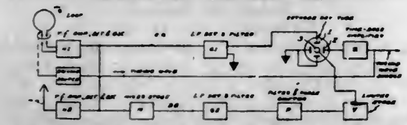
A ramp for an automobile comprising an elongated plate having flanges at the sides, one end of the plate resting on the ground, the other end being raised, the plate extending at a small angle from the grounded to the raised portions, the raised portion having a depression in the middle for a wheel of a vehicle, legs under the raised portion made of U-shaped pieces of sheet metal, the ends of the pieces being fastened to the under side of the plate, the bent portions of the U-pieces resting on the ground, and means at the outer end of the raised portion to stop the wheel from rolling off the outer end of the raised portion.

2,279,465
LIFTING DEVICE
Alexis Jackson, Rochester, N. Y., assignor to Vadim S. Makaroff, New York, N. Y.
Application October 30, 1940, Serial No. 363,399
10 Claims. (Cl. 254—9)



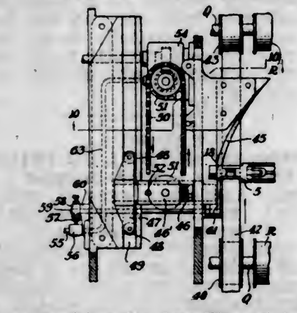
5. A lifting device comprising a frame forming a base having a raised rear portion, a lifting member having its rear end pivotally supported at the rear portion of the frame, the front end of the lifting member being adapted to raise a load, a link member extending between the raised portion of the frame and lifting member, one end of the link member being pivoted to the raised portion of the frame and the other end having a sliding connection with the lifting member, and means on the frame for raising the link member, thereby raising the lifting member.

2,279,466
RADIO DIRECTION FINDER
Fritz Johnske and Johannes Rebmann, Berlin, Germany, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application September 26, 1939, Serial No. 296,652
In Germany September 20, 1938
4 Claims. (Cl. 250—11)



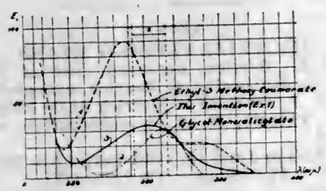
1. A direction finder including a main radio receiving channel including means for obtaining currents corresponding to a figure 8 directive response pattern and means for indicating the minima thereof, an auxiliary radio receiving channel including means for obtaining a substantially unidirective response pattern, means for deriving from said auxiliary channel controlling currents having an amplitude substantially equal to and limited to the maximum amplitude of the currents corresponding to said figure 8 pattern and having a minimum substantially equal in phase and magnitude to the currents corresponding to one of said minima, means for applying said controlling currents to said indicating means so that one of said minima is suppressed, and in which said means for deriving controlling currents from said auxiliary channel includes a current limiter so adjusted that the controlling currents are substantially constant over approximately 180° of the response pattern of said auxiliary channel.

2,279,467
LEADER BAR ALIGNING CONTROL
John G. Jones and Malcolm P. Davis, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application October 28, 1939, Serial No. 301,854
16 Claims. (Cl. 271—2.1)



1. In a machine for handling strip material, the combination with a plurality of sections, of a plurality of rollers in each section over which the strip material is looped, a pair of spaced belts for each section adjacent the path of strip material passing over said rollers, the belts of one section lying adjacent to the belts of another section through a small part of their path constituting a change-over station, a leader bar having double jaws at each end for threading the strip material about said rollers, means for operating the jaws, releasing one belt and grasping the other belt at parallel runs of the belts between sections, a power driven auxiliary conveyor normally at rest and positioned adjacent the path of the leader bar, means for operating the auxiliary power driven conveyor including two control members both lying in the path of the leader bar to be operated thereby, said power driven conveyor being movable only when both ends of the bar are properly positioned to be engaged by the auxiliary conveyor, in which position both control members may be operated by the leader bar for releasing the power drive of the auxiliary conveyor for moving the leader bar between the two adjacent runs of the belts at the change-over station.

2,279,468
PRODUCT OF ANTIERYTHEMIC ACTION
Joseph Edouard Gustave Lahousse and Anne Marguerite Lucienne Casati, Lyon, and Jean Louis Gonnard, Villeur-Banne, France, assignors to Societe des Usines Chimiques Rhone-Poulenc, Paris, France, a corporation of France
Application February 15, 1940, Serial No. 319,052
In France May 20, 1939
7 Claims. (Cl. 167—90)



1. An anti-sunburn preparation comprising a mixture of an alkyl ester of 3-methoxy-coumaric acid and an oil-soluble, liquid ester of salicyclic acid in a common oily excipient, the concentration of the coumaric acid ester in said preparation being greater than would be obtainable by dissolving the same ester in the same excipient in the absence of said liquid ester of salicyclic acid.

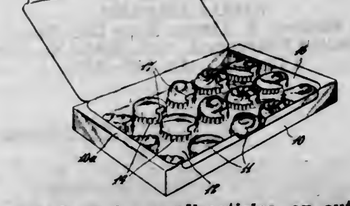
2,279,469
PROCESS OF MAKING OLEFIN OXIDES
George H. Law, South Charleston, and Henry C. Chitwood, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application April 12, 1938, Serial No. 201,514
11 Claims. (Cl. 260—348)

1. Process of making olefin oxides by the direct chemical combination of olefins with molecular oxygen in the presence of active silver surface catalysts at temperatures between about 150° and about 400° C., which comprises supplying olefins and molecular oxygen to said process and repressing the complete oxidation of the olefin by adding to at least one of the reactants controlled and very small amounts of at least one material selected from the group consisting of halogens and compounds containing halogens boiling below about 350° C., compounds containing sulfur boiling below about 350° C., and mixtures of the foregoing with hydrocarbons boiling between about 70° and about 250° C., the amount of total repressant material being less than about 0.1% of the total volume of gases comprising the reactants.

2,279,470
PROCESS OF MAKING OLEFIN OXIDES
George H. Law, South Charleston, and Henry C. Chitwood, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Original application April 12, 1938, Serial No. 201,514. Divided and this application September 25, 1939, Serial No. 296,492
16 Claims. (Cl. 260—348)

1. Process of making olefin oxides by the direct chemical combination of olefins with molecular oxygen in the presence of active silver surface catalysts at temperatures between about 150° and about 400° C., which comprises supplying olefins and molecular oxygen to said process and repressing the complete oxidation of the olefin by adding to at least one of the reactants controlled and very small amounts of at least one material selected from the group consisting of hydrocarbons boiling between about 70° and about 250° C., compounds containing carbon, hydrogen and oxygen boiling between about 35° and about 350° C., and aromatic amines and non-basic compounds containing nitrogen boiling below about 350° C., the amount of the total repressant material being less than about 0.10% of the total volume of gases comprising the reactants.

2,279,471
PACKAGE
Geoffrey Cecil Laycock, Norwich, England
Application October 14, 1939, Serial No. 299,549
In Great Britain October 26, 1938
1 Claim. (Cl. 206—44)

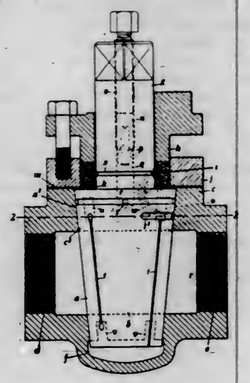


In a package for small articles, an outer box, a tray formed of resilient flexible material and fittable within said box and provided with a plurality of apertures smaller than said articles respectively, the edges of said apertures having short radial slits forming short tongues therebetween, and a relatively long and large combined signal and retaining tab of T-shape projecting radially from the edge of each of said apertures toward the center thereof and having a relatively large head on its free end toward the center of said aperture, which head carries individual identifying indicia displayable across the top of the respective articles when said articles are inserted in said apertures, whereby when said articles are respectively inserted in said apertures said tongues resiliently grip and hold said articles, and said tab further resiliently grips and holds said articles and projects relatively far upwardly on the side of said article and identifies the respective article in each of said apertures.

2,279,472
VALVE
Edward Blackwell Leach, Newport, England
Application February 4, 1941, Serial No. 377,377
In Great Britain February 15, 1940
4 Claims. (Cl. 251—93)

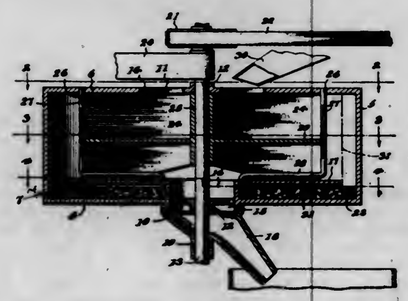
4. A valve comprising in combination a body

and a closure member having contiguous seating surfaces, an operating spindle for actuating the closure member, a fluid-tight seal through which the spindle passes, a source of lubricant supply, means for admitting lubricant from the said source to the said seating surfaces, means con-



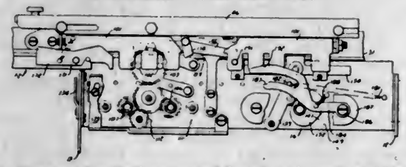
trolled by the closure member for admitting lubricant from the said source to the said seal, and means for interrupting the supply of lubricant to the said seating surfaces when the closure member is in position for enabling lubricant to be supplied to the seal.

2,279,473
AMALGAMATOR
Richard W. Limpp, King City, Mo.
Application February 3, 1941, Serial No. 377,238
4 Claims. (Cl. 209—199)



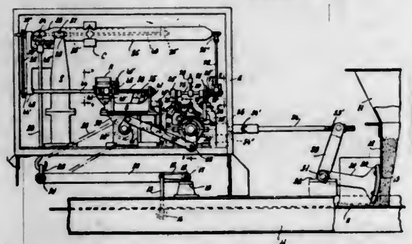
1. In an amalgamator, a rotatable hollow cylindriform body having top, bottom and side walls and with said top and bottom walls provided with inlet and discharge means respectively, said bottom wall provided with a trap surrounding said discharge means and adapted to contain mercury for disposal about said side wall upon rotation of said body, a plurality of radially extending paddles fixed within said body and spaced from said trap and said side wall respectively, baffle means located between upper and lower edges of the paddles and formed on said paddles, vent tubes carried by said paddles and having upper ends terminating through said top wall and lower ends terminating within said trap adjacent said discharge means whereby to vent said trap to permit free return of mercury therein from said side wall.

2,279,474
CALCULATING MACHINE
Anthony B. Machado, Oakland, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Application October 21, 1940, Serial No. 362,021
9 Claims. (Cl. 235—63)



1. In a calculating machine having a shiftable register and return and resetting mechanism therefor, said mechanism being operable to return said register to a predetermined position if displaced therefrom and to effect resetting of said register, drive means, said mechanism including a resetting cam having a drive connection with said drive means, an arm oscillated by said cam, a latch for holding said arm out of cooperation with said cam, a spring urging said latch to active position, and means responsive to said register when it is returned to said predetermined position for disabling said latch.

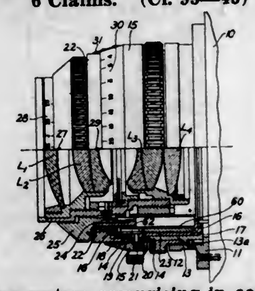
2,279,475
MATERIAL FEEDING MEANS
Herbert L. Merrick, deceased, late of Passaic, N. J., by Katherine S. Merrick, executrix, Passaic, N. J., assignor to Merrick Scale Mfg. Company, Passaic, N. J., a corporation of New Jersey
Application June 13, 1940, Serial No. 340,264
15 Claims. (Cl. 221—118)



4. In material feeding means, a travelling material transporting conveyer, a hopper having an outlet to deliver material onto the conveyer, weighing mechanism arranged to support a portion of the conveyer and counterbalance a load of predetermined weight transported by the conveyer, a register, means operative from the conveyer operatively connected to and actuating the register to record the weight of the material transported by the conveyer, an adjustable gate to control the area of the hopper outlet and delivery of material from the hopper onto the conveyer, means to adjust said gate, means operative to connect and actuate the gate adjusting means from the means operative from the conveyer to actuate the register and normally disconnecting the gate adjusting means therefrom, and means controlled by the movement of the weighing mechanism to underload or overload positions to connect and actuate the gate adjusting means from said means operative from the conveyer to adjust said gate to vary the area of the hopper outlet to increase or decrease the delivery of material from the hopper onto the

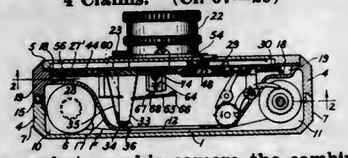
conveyer and maintain the delivery of material by the conveyer at a constant predetermined rate.

2,279,476
LENS MOUNT
Joseph Mihalyi, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 2, 1939, Serial No. 307,305
6 Claims. (Cl. 95—45)



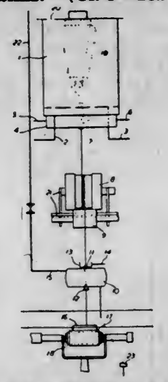
1. A lens system comprising in combination, a lens, a mount for the lens, means engaging the mount for focusing the lens over a range from infinity to a normal near point, separate means engaging the mount and operative for focusing the lens only over a close-up range having said normal near point as its far point and means operatively connected between the two focusing means for preventing the simultaneous operation thereof.

2,279,477
PHOTOFLASH SYNCHRONIZING DEVICE
Joseph Mihalyi, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 5, 1939, Serial No. 307,643
4 Claims. (Cl. 67—29)



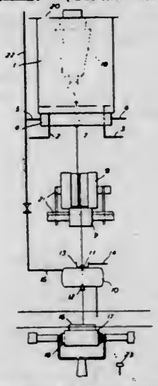
1. In a photographic camera the combination with a shutter assembly of the setting type and including leaves movable in one direction when the shutter is released to make an exposure. and movable in the opposite direction when the shutter is set, of a photo-flash synchronizing arrangement comprising a first contact connected to one of said leaves to move therewith and adapted to be electrically connected to one side of a power circuit including a photo-flash lamp, a second contact adapted to be electrically connected to the other side of said power circuit and located in the path of movement of said first contact whereby it is adapted to be engaged by said first contact during the release movement of said leaves to close the circuit through said lamp, said second contact elongated and located relative to the path movement of said first contact whereby the engagement of the two is adapted to be a wiping action during a substantial part of the movement of said leaves, means for preventing said first contact from electrically contacting said second contact during a setting movement of said leaves, said means including insulating one face of said contact, and mounting said contact relative to the path of movement of said first contact so that the second contact engages said insulated face during the setting movement of the shutter.

2,279,478
PRODUCTION OF ARTIFICIAL YARNS, FOILS, AND SIMILAR MATERIALS
Robert Wighton Moncrieff and Charles William Sammons, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
Application March 8, 1940, Serial No. 322,948
In Great Britain March 9, 1939
5 Claims. (Cl. 8—132)



1. Process for the treatment of artificial filaments, foils and similar materials having a basis of an organic derivative of cellulose, which comprises drawing them from a package positioned in an atmosphere of wet steam and stretching them while they pass through an atmosphere containing dry steam.

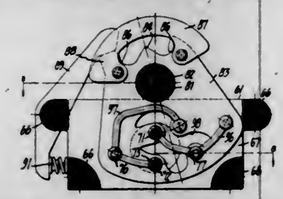
2,279,479
PRODUCTION OF ARTIFICIAL YARNS, FOILS, AND SIMILAR MATERIALS
Robert Wighton Moncrieff and Charles William Sammons, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
Original application March 8, 1940, Serial No. 322,948. Divided and this application July 11, 1941, Serial No. 401,993. In Great Britain March 9, 1939
4 Claims. (Cl. 28—59)



1. Apparatus for stretching artificial filaments,

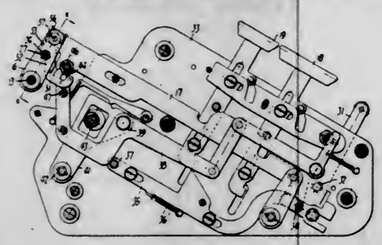
foils and similar materials which comprises a container for a package of the material provided with an inlet for wet steam and an outlet for the material, a substantially closed stretching chamber having an inlet for stretching medium and an inlet and an outlet for the material, a positively driven feed device adapted to draw the material from the package and forward it to the stretching chamber and a positively driven stretching device adapted to draw the material through the chamber at a speed greater than that at which it is forwarded by the feed device.

2,279,480
CALCULATING MACHINE SWITCH
John L. Moody, Oakland, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Application March 4, 1940, Serial No. 322,092
1 Claim. (Cl. 200—11)



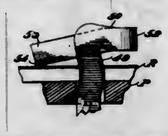
In a polarity reversing switch, a reversing switch member mounted for limited rocking movement about an axis between two end positions, two pairs of terminals operatively related to said member, one terminal of one pair being disposed in an arcuate path about said axis with both terminals of the other pair, and a pair of circuit making leads mounted on said member, each lead having a pair of contact points disposed in said path for connecting said one terminal of said one pair with a terminal of the other pair, and each of said leads having a contact point lying in a second arcuate path including the other terminal of said one pair.

2,279,481
CALCULATING MACHINE
John L. Moody, Oakland, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Application December 16, 1940, Serial No. 370,291
4 Claims. (Cl. 235—75)



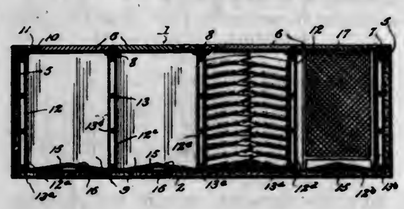
1. In a calculating machine having a register and actuating means therefor, full cycle lock mechanism for insuring complete registration during each cycle on said numeral wheels by said actuating means, said lock mechanism including a notched locking disc driven in time with said actuating means and a spring-urged locking member having a portion disposed in said notch in the full cycle position of said disc, said pin being movable to one side of said disc during registration on said register, a manually operable key, and means settable by said key for withdrawing said pin to render said full cycle lock mechanism ineffective.

2,279,482
SPRING HEAD RAIL SPIKE
George W. Muller, Miami, Fla.
Application July 23, 1940, Serial No. 347,052
22 Claims. (Cl. 238—366)



1. In combination with an apertured tie plate and a rail supported thereon; an integral rail retaining spike comprising a shank extended through said aperture and into a tie, a yieldable arm having a free end portion extending longitudinally of the rail and downwardly into engagement with a flange of said rail, and a connection between said shank and said arm comprising a portion reversely curved in a substantially horizontal plane and providing torsional resistance to the yielding of said arm, said connection overlying the rail flange.

2,279,483
DRY STORAGE BOTTLE COOLER
Clarence F. Munshower, Columbus, Ohio, assignor, by mesne assignments, to Colbar, Inc., Columbus, Ohio, a corporation of Ohio
Application September 13, 1939, Serial No. 294,724
5 Claims. (Cl. 62—141)

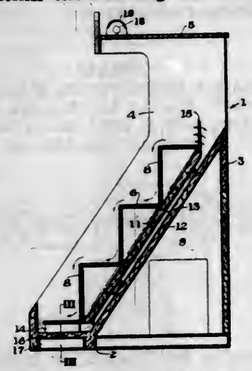


1. A cooler for bottled beverages, comprising a cabinet, a plurality of vertically arranged longitudinally spaced refrigerating panels stationarily mounted in said cabinet, the spacing of said panels producing a plurality of bottle storage compartments, and oppositely inclined supports provided in the bottom of said compartments for the reception of bottles resting on their sides, the inclination of such supports being such as to positively maintain the base end of each bottle in direct contact with at least one of said refrigerating panels.

2,279,484
REFRIGERATED DISPLAY CASE
Clarence F. Munshower, Columbus, Ohio, assignor to Colbar, Inc., Columbus, Ohio, a corporation of Ohio
Application October 17, 1940, Serial No. 361,588
5 Claims. (Cl. 62—89.5)

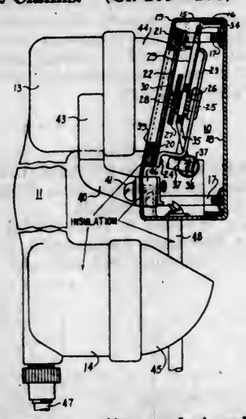
1. A display case comprising a housing, a refrigerated shelf structure of stepped form stationarily mounted within said housing, and

means arranged at the back of said shelf structure and within the housing for circulating air



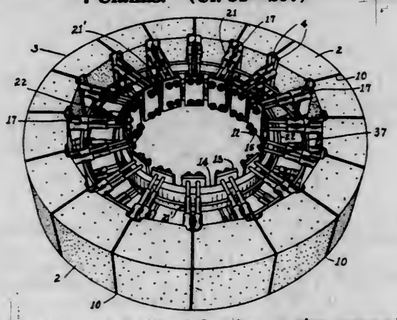
from adjacent the bottom of the shelf structure to the top thereof.

2,279,485
COMBINED MOUNTING AND SIGNAL DEVICE FOR HAND TELEPHONES
Herbert F. Obergfell, River Forest, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application October 5, 1940, Serial No. 359,833
2 Claims. (Cl. 179—100)



1. A combined mounting and signal device for a sound translator of the type including a casing having an opening therein which communicates between a speech diaphragm mounted in the casing and the exterior; said device comprising a housing having a wall provided with an opening therein, a signal diaphragm disposed within said housing and mounted in substantially sealed relationship with respect to the adjacent inner surface of said wall surrounding the opening provided therein, a manually operable member carried by said housing and operative to vibrate said signal diaphragm, a fixture carried by said housing and adapted to receive and support the casing of the sound translator and to position the rim of the opening in the casing of the sound translator in substantially sealed relationship with respect to the adjacent outer surface of said wall surrounding the opening provided therein, whereby the speech diaphragm of the sound translator and said signal diaphragm are coupled by an air column when the casing of the sound translator is supported on said fixture, and an electrical terminal block for the sound translator disposed within said housing.

2,279,486
SEGMENTAL ABRASIVE WHEEL FOR PULP GRINDING
Leon A. Patt, Sanborn, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
Application December 14, 1939, Serial No. 309,217
7 Claims. (Cl. 51—207)



1. A segmental wheel having a rim comprised of a plurality of abrasive segments, a concrete center supporting the segmental rim and having a substantially larger coefficient of thermal expansion than the abrasive segments, a plurality of anchor hooks each having a curved end that is seated in an opening in the side of an abrasive segment and having the opposite end adapted for a coupling connection, a plurality of inwardly extending rods each of which has an outer end that is adapted to be attached to said coupling connection and an inner end partially embedded in the concrete center, the anchor hooks having approximately the same coefficient of thermal expansion as the abrasive segments, and the inwardly extending rods having approximately the same coefficient of thermal expansion as the concrete center.

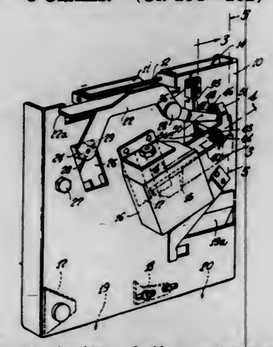
2,279,487
COIN SLIDE
William Patzer and Walter A. Tratsch, Chicago, Ill.
Application July 27, 1939, Serial No. 286,790
2 Claims. (Cl. 194—102)



1. A coin testing device having, in combination, a reciprocable coin transporting slide provided with a coin receiving pocket in which coin elements are received for transport to a certain destination from an initial position, means providing a drop-out opening between said initial position and destination and through which undersized coin elements of less than a certain diameter may pass before reaching said destination, ledge means beneath said slide for supporting a coin in said pocket during transit toward and past said drop-out opening, said pocket being of approximately circular form with opposite arcuate wall portions having different radii of curvature, the center of one radius being offset relative to the center of the other radius laterally of the slide and also in advance of said center toward said drop-out opening, where-

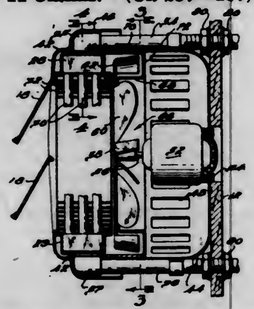
by a trailing side portion of said pocket is offset to cause a coin element in the pocket to shift toward the opposite side of the pocket laterally of the slide as a result of movement of the coin by the slide toward said drop-out opening.

2,279,488
COIN CHUTE
William Patzer and Walter A. Tratsch, Chicago, Ill.
Application August 25, 1939, Serial No. 291,804
8 Claims. (Cl. 194—101)



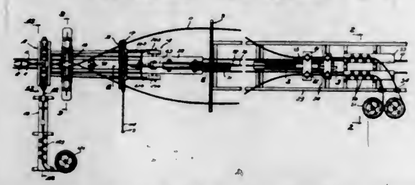
1. In a coin testing device, means providing a coin passage having an entrance and an exit, magnetic means for creating a magnetic field concentrated in a certain region of said passage between said entrance and said exit, and auxiliary magnetic means including a paramagnetic member mounted with relation to said magnetic means so as to be magnetized by the latter, said member having a portion constituting a magnetic pole situated at a distance from the concentrated portion of said field between said magnetic means and said entrance and disposed to provide a localized magnetic field at a different region of said passage.

2,279,489
AUTOMOBILE BODY HEATER
Lambert M. Payne, Detroit, Mich., assignor, by mesne assignments, to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application March 1, 1937, Serial No. 128,405
11 Claims. (Cl. 257—137)



8. In a combined heater and defroster, a heating radiator having air passages, a fan for impelling air through certain of said passages, a blower for impelling air through others of said passages, said blower being of an internal diameter as great as the external diameter of said fan, and a casing within which said blower operates, said casing being located in close proximity to said heating radiator.

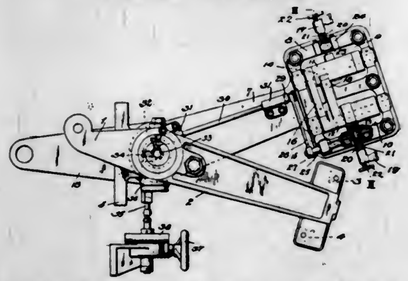
2,279,490
FRAME FABRICATING MACHINE
Frank Y. Pearne, Los Angeles, Calif.
Application April 8, 1940, Serial No. 328,409
17 Claims. (Cl. 153—2)



1. A machine for fabricating building frames comprising a tie forming unit, means for feeding rigid longitudinal frame members to the unit, fluid pressure operated means for operating said means, means for feeding a rigid transverse member to the unit to be tied to the longitudinal members, fluid pressure operated means for operating the last mentioned means, fluid pressure operated means for operating the tie forming unit, and a fluid pressure control for actuating the several fluid pressure operated means in sequence.

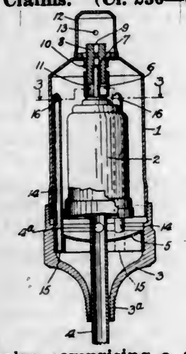
14. In a machine of the character described, means for simultaneously intermittently advancing two spaced members, die means for simultaneously bending the members to form a bend in each and causing the unbent portions of the members to cross, and means for assisting in the crossing of the members.

2,279,491
GOVERNOR FOR POWER ENGINES
Ove Petersen, Gentofte, near Copenhagen, Denmark
Application January 9, 1940, Serial No. 313,112
In Denmark January 30, 1939
1 Claim. (Cl. 264—1)



An engine governor having an oscillating lever, a pendulum body pivotally mounted thereon, a spring housing with a spring acting upon the said pendulum body for keeping the same in one end position against the action of inertia forces below a certain limit of engine speed, a rotatable shaft mounted on said oscillating lever with its axis parallel to the pivot axis of the pendulum body, the said spring housing being pivotally mounted on said shaft with its pivot axis parallel to but not co-inciding with that of the said shaft, and an adjusting shaft mounted co-axially with the pivot of the oscillating lever and operatively connected with the said rotatable shaft.

2,279,492
AIR VALVE
Elmer J. Pratt, Chicago, Ill., assignor to The Dole Valve Company, Chicago, Ill., a corporation of Illinois
Application May 7, 1937, Serial No. 141,314
5 Claims. (Cl. 236—63)



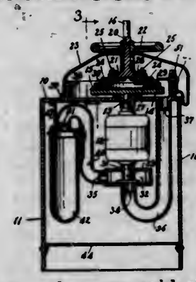
1. An air valve comprising a casing, a receptacle in said casing containing expansible material, a valve member connected with said receptacle, a passageway leading from the casing to the exterior atmosphere controlled by said valve member, a cross member extending across said casing below said receptacle and fixed against movement, and a pipe separate from the casing and cross member, the cross member being provided with an opening into which the pipe is received, the pipe being open at its lower end, said pipe having an opening above the cross member communicating with the space surrounding said receptacle.

2,279,493
PRODUCTION OF THIOUREA-ALDEHYDE TYPE PRODUCTS
Kurt Ripper, Vienna, Austria, assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application July 15, 1937, Serial No. 153,762. In Austria August 5, 1936
1 Claim. (Cl. 260—69)

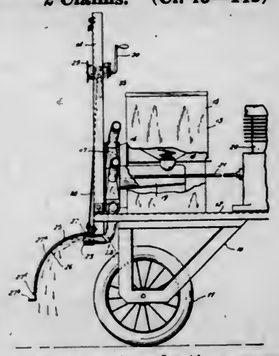
The process which comprises reacting thiourea with formaldehyde at room temperature to produce a condensation product, the reaction being carried out at a greater alkalinity than pH 10 until the reaction products are incipiently hydrophobic and hardening the reaction products under alkaline conditions to produce infusible and insoluble materials, the reaction products being substantially free from urea.

2,279,494
GRINDER
Harris H. Roake, Glendale, Calif.
Application July 22, 1940, Serial No. 346,701
1 Claim. (Cl. 51—124)

In a grinder, a rotatable grinding member adapted to support the work thereon during grinding, and a work holding and adjusting means including an arm mounted to swing back and forth over the grinding member, a rotatable shaft mounted on said arm for swinging movement therewith and work engaging means on said shaft operating to slide the work relative to and on the grinding member upon the swinging of said arm and to rotate the work relative to and on said grinding member, upon the rotation of said shaft, said work engaging means including slotted members, fastenings extending thru slots in said members for adjustably securing them to said shaft, pins depending from said slotted members for engaging the work, and resilient cushion members on said slotted members and adapted to have tensioned engagement with the work.



2,279,495
DUSTING APPARATUS
Ralph R. Root, Lakewood, Ohio, assignor to The Root Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application July 25, 1940, Serial No. 347,452
2 Claims. (Cl. 43—148)



1. In apparatus for dusting ground crops, a traveling carriage, a blower thereon having a plurality of openings and operable to deliver streams of dust-laden air therethrough, a laterally elongated transversely curved substantially rigid deflector mounted on the carriage in spaced relation to the ground and with its concave face directed toward the ground, said deflector comprising an intermediate section and end sections hinged to said intermediate section so as to form lateral extensions thereof and adapted to be swung to an elevated position, flexible conduits extending between said blower openings and said sections and having discharge outlets for directing said streams against the concave face of said deflector, means for swinging said end sections to said elevated position, and means for raising or lowering said intermediate section for adjusting the spacing of the deflector relative to the ground.

2,279,496
STENCIL PASTE
Justus Russell Sackett, Wynnewood, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 22, 1941, Serial No. 384,700
5 Claims. (Cl. 260—40)

1. A coating composition adapted to be used

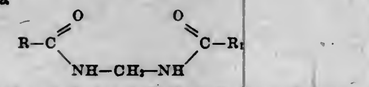
as a silk screen stencil paste comprising a modified alkyd resin, a cadmium red lithopone pigment and diphenyl guanidine.

2,279,497
ASYMMETRICAL CONDENSATION PRODUCTS AND PROCESS OF PREPARING SAME

Richard Sallmann, Bottmingen, and Otto Albrecht, Neue Welt, near Basel, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland

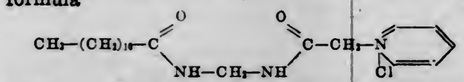
No Drawing. Application August 1, 1939, Serial No. 287,851. In Switzerland August 12, 1938
17 Claims. (Cl. 260—295)

13. The N:N'-diacylated methylenediamines of the formula



wherein R stands for an alkyl radical containing at least 11 carbon atoms, and R_1 stands for a lower alkyl radical containing at least one water-solubilizing group, which products are water-soluble liquid to solid substances which are decomposed by prolonged boiling with hydrochloric acid, water-insoluble compounds being formed.

17. The diacylated methylenediamine of the formula

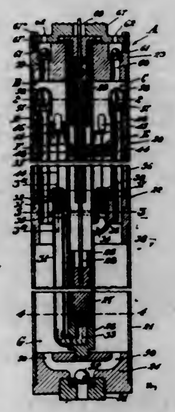


which product is a water-soluble solid substance the aqueous solutions of which have a strong wetting capacity and are decomposed by prolonged boiling with hydrochloric, water-insoluble compounds being formed.

2,279,498
PUMP

Benjamin F. Schmidt, Los Angeles, Calif.

Application October 22, 1937, Serial No. 170,408
9 Claims. (Cl. 103—165)



1. In a submersible pump, a pump housing having a pair of adjacent compartments, a mercury column in each of said compartments, a reciprocal piston in said housing, a passage affording a communication between one of said mercury columns and the lower end of said piston, a passage affording a communication between the other of said mercury columns and the upper end of said piston, means for reciprocating said piston, said housing having a fluid inlet below said mercury columns and a fluid outlet leading from above each of said mercury columns, and means for delivering liquid from the inlet to spaces in said housing above each of said mercury columns, said last named means including tubes leading through said mercury columns, and check valves confining the direction of flow of the liquid through said tubes to an upward direction.

2,279,499
PROCESS OF COMBINING HARDENABLE PHENOL-ALDEHYDE CONDENSATION PRODUCTS WITH AIR-DRYING FATTY OILS

Fritz Seebach, Erkner, near Berlin, Germany, assignor, by mesne assignments, to Bakelite Corporation, a corporation of New Jersey

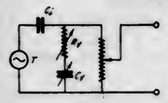
No Drawing. Application February 12, 1930, Serial No. 427,993. In Germany February 25, 1929
6 Claims. (Cl. 260—19)

1. Process of preparing compositions which comprises mixing a hardenable phenol-aldehyde condensation product with an oxidized air-drying fatty oil in a solvent for both components and thereafter removing the solvent.

2,279,500
CIRCUIT ORGANIZATION FOR PIEZO-ELECTRIC PICKUPS

Edwin Severin and Otto Brünnert, Berlin, Germany, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Zehlendorf, Osteweg, Germany, a corporation of Germany

Application March 21, 1940, Serial No. 325,148
In Germany January 18, 1939
2 Claims. (Cl. 179—100.4)



1. A piezoelectric pickup device circuit arrangement including a variable resistance and a variable condenser connected in series with each other and in parallel with said pickup device, a pair of output terminals, a second resistance in parallel with said variable condenser and said first mentioned resistance, a variable connection from said second resistance to one of said output terminals, and a fixed connection from one end of said second resistance to the other output terminal.

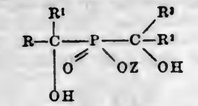
2,279,501
YARN CONDITIONING PROCESS AND COMPOSITIONS THEREFOR

Joseph B. Dickey and James G. McNally, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application October 9, 1940, Serial No. 360,450
18 Claims. (Cl. 252—8.8)

1. The method of eliminating the tendency of yarns, filaments or fibers to accumulate charges of static electricity, which comprises applying thereto a composition containing as its essential

anti-static component a hydroxy alkyl aryl phosphonate having the general formula:



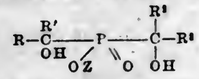
wherein R is an aromatic group; R^1 and R^2 are substituents selected from the group consisting of hydrogen, alkyl, cycloalkyl, aryl and heterocyclic groups, wherein R^3 is a substitute selected from the group consisting of hydrogen, alkyl, cycloalkyl; Z is a substituent selected from the group consisting of hydrogen and salt-forming radicals.

2,279,502
YARN CONDITIONING PROCESS AND COMPOSITION THEREFOR

Joseph B. Dickey and James G. McNally, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application October 9, 1940, Serial No. 360,454
18 Claims. (Cl. 252—8.8)

1. The method of eliminating the tendency of yarns, filaments or fibers to accumulate charges of static electricity, which comprises applying thereto a composition containing as its essential anti-static component a salt of a dialkyl phosphonic acid having the general formula:

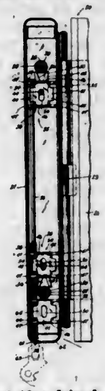


wherein R' and R^2 are substituents selected from the group consisting of hydrogen and alkyl and R and R^3 are substituents selected from the group consisting of alkyl, cycloalkyl, and heterocyclic groups and hydrogen, and Z is a substituent selected from the group consisting of hydrogen and salt-forming radicals.

2,279,503
BINDER LOCKING MECHANISM

Edward A. Koelling, St. Louis, Mo.

Application November 8, 1939, Serial No. 303,347
2 Claims. (Cl. 129—23)

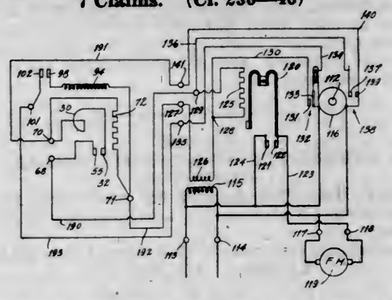


1. In a device of the kind described, a locking mechanism for post binders disposed within a case including a shaft disposed longitudinally within the case, spaced members within the case connected to said shaft, one of said members being threadedly connected to said shaft for movement therealong, the other of said members being connected to said shaft to permit rotative movement of the shaft, each of said members including a carrier and a post-engaging element disposed in fixed relationship to each other when assembled, said post-engaging element being removable from the carrier, said carrier being of a configuration to receive said post-engaging element in positions at 180° to each other, each of said members being adjacent a binder post, and means to rotate said shaft to move said post-engaging elements into and out of engagement with the binder posts.

2,279,504
TIME AND TEMPERATURE CONTROL FOR STOKERS

Lawrence M. Persons, St. Louis, Mo., assignor to Automatic Control Corporation, St. Louis, Mo., a corporation of Delaware

Application May 13, 1937, Serial No. 142,401
7 Claims. (Cl. 236—46)



1. In a mechanism of the kind described, a thermal switch, and mechanism mechanically to shift the switch independently of the temperature, said mechanism including a cam, means to rotate the cam, said means including a ratchet wheel and a ratchet dog to rotate the same, an electromagnet to shift the ratchet dog whereby the wheel may be advanced, a circuit for said electromagnet, a switch in said circuit, and means operated by said ratchet wheel to open the last-named switch at a predetermined time.

6. In combination, an electrically-operated heat change mechanism, a circuit therefor, a main switch in the circuit, a room thermostat switch closable to cause said main switch to close, an anticipating heater in circuit with the room thermostat to be energized upon closing thereof and to produce a biasing heat acting upon said thermostat to produce a tendency in the same toward opening position, clockworks, a circuit controlled by the clockworks to cause the main switch to close at given intervals, said circuit also including said anticipating heater whereby the room thermostat will be retarded from closing during and after operation of the heat change mechanism by the clockworks.

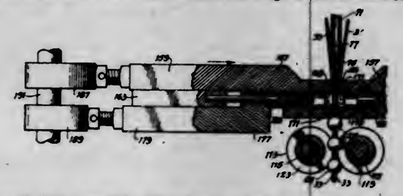
2,279,505
CAPSULE MAKING MACHINE

Edward A. Ravenscroft, Glencoe, Ill., assignor to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois

Application July 10, 1939, Serial No. 283,602
10 Claims. (Cl. 18—21)

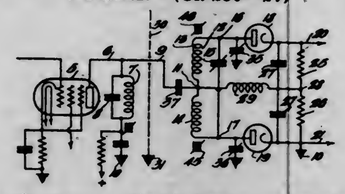
1. In apparatus of the class described, gelatin sheet forming means operable to provide two continuous strips of sheet gelatin, a nozzle mem-

ber, means for moving said strips into flatwise contact with each other adjacent the outlet of said nozzle member, a pair of oppositely arranged sealing members each of which is provided with a centrally located passageway, means for moving said sealing members toward each other with said passageways in substantial alignment so as to hold together a predetermined area of said sheets and thereby form an expansible envelope



about the outlet of said nozzle, means for forcing a quantity of filling material through the outet of said nozzle into said envelope, and tubular cutter members movable through said aligned passageways into engagement with each other, whereby said filled envelope is severed about its entire periphery from said sheets and the edges of said envelope are simultaneously sealed to form a capsule.

2,279,506
FREQUENCY MODULATION SIGNAL DETECTOR
John D. Reid, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application October 26, 1940, Serial No. 362,909
7 Claims. (Cl. 250—27)



1. A frequency discriminator network comprising an input circuit having a tuning inductance in two sections serially connected and capacity means in shunt with said inductance providing resonance at a predetermined mean frequency, an output circuit, means for unbalancing said input circuit to provide resonance therein between opposite terminals thereof and ground above and below a center frequency, and means providing a single signal conveying path for introducing signals into said network.

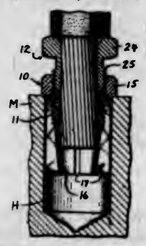
2,279,507
TIE-FORMING TOOL
Porter B. Wallis, Hillsboro, Tex., assignor to Indiana Steel & Wire Company, Muncie, Ind., a corporation of Indiana
Application September 21, 1940, Serial No. 357,691
4 Claims. (Cl. 140—121)

1. In a tool for wrapping a tie wire about a line wire, said tool comprising a seat portion adapted to receive the line wire while the tool is being rotated therearound and including two spaced walls between which the line wire is disposed when seated in said seat portion, said seat portion having an end face engageable with the wrapped portion of the tie wire, one of said walls being provided with a notch opening generally toward the line wire when the latter is seated in said seat, said notch being adapted to receive the unwrapped portion of the tie wire, the base of said notch being so located longitudinally of the seat portion relative to said end face that with the latter engaging the wrapped portion of



the tie wire the unwrapped portion of the tie wire seated in the base of the notch will be disposed at an angle to the line wire such that when wrapped thereabout by rotation of the tool it will form an open-wound helix, and a handle rigid with said seat portion and extending transversely from the line wire seated therein.

2,279,508
WIRE CONNECTOR
Martin D. Bergan, Westfield, N. J., assignor to The Thomas & Betts Co., Elizabeth, N. J., a corporation of New Jersey
Application June 19, 1940, Serial No. 341,278
1 Claim. (Cl. 173—269)



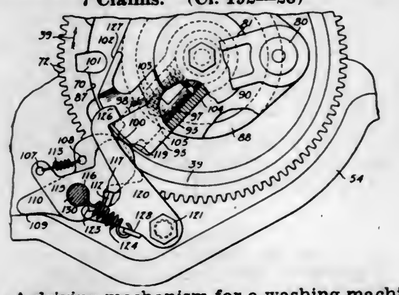
An electrical connector comprising, in combination, a single anchorage sleeve of uniform external diameter and of smooth formation externally throughout its length adapted to be introduced into a smooth-bore hole or socket of an electrical-conducting service member, a tool-receiving head integrally formed on the outer end of the single anchorage sleeve constituting a stop adapted to seat against the service member to insure full entry of the anchorage sleeve thereinto, the anchorage sleeve having a bore of threaded uniform internal diameter formed through the tool-receiving head and extending inwardly, the bore gradually decreasing in diameter and formed smooth from the inner end of the threads and extending through the inner end of the anchorage sleeve constituting an internal tapering bore, the anchorage sleeve being split longitudinally from its inner end and extending toward its outer end thus rendering it expansible and adapted for anchorage within the smooth-bore hole of the service member as aforesaid; a compression sleeve also split from end to end thereof thus also rendering it expansible, and being somewhat shorter in length than the anchorage sleeve and slidably carried therein, the compression sleeve having a bore of uniform diameter from end to end and being of

a size adapting it to receive an electrical conductor with a close sliding fit thereon, the compression sleeve having a two-stage external smooth surface, that is, being uniform in diameter starting at its outer end and extending part way toward its inner end, but gradually decreasing in diameter to said inner end forming an external taper on the same angle as the internal tapering bore of the anchorage sleeve; and a jam nut having a smooth bore also adapted to receive the electrical conductor aforesaid with a close sliding fit thereon, and including an externally threaded cuff screwed into the threaded bore of the anchorage sleeve to force the compression sleeve to slide under pressure within the tapering smooth bore of and toward the inner end of said anchorage sleeve, thereby contracting the compression sleeve for gripping it around the electrical conductor and simultaneously expanding the anchorage sleeve for securing it within the smooth-bore hole of the service member and also establishing a pressure surface-area electrical engagement between said anchorage sleeve and service member throughout their engaging lengths and circumferences of smooth-surface formation.

2,279,509
GLYCEROL DICHLORHYDRIN
Edgar C. Britton and Harold R. Slagh, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application July 20, 1939, Serial No. 285,582
11 Claims. (Cl. 260—633)

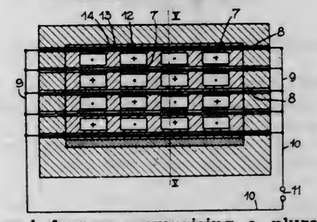
9. In the recovery of glycerol dichlorohydrin from an aqueous solution comprising the same, the steps which consist of extracting said solution with an alkylene chloride selected from the group consisting of ethylene chloride and propylene chloride, and thereafter separating the glycerol dichlorohydrin from such solvent by fractional distillation.

2,279,510
WASHING MACHINE
Walter A. Frantz, Shaker Heights, Ohio, assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application April 2, 1938, Serial No. 199,678
7 Claims. (Cl. 192—28)



1. A driving mechanism for a washing machine comprising a driving gear mounted for rotation upon a vertical axis within a casing, a driven member coaxially arranged with respect to said gear, a peripheral portion of said gear formed to encompass a part of said member, said portion provided with a recess and said part provided with a plunger adapted to enter said recess, means to control the position of said plunger with respect to said recess comprising a cam carried by said casing having a portion movable into the circular path described by said recess whereby to engage said plunger and move the same from the recess, a hook operatively connected with said cam provided with a part adapted to be resiliently urged into engagement with said member to restrain the same against movement subsequent to plunger actuation by the cam.

2,279,511
TUNNEL FURNACE
Rodolphe Gottignies, Rousies, France, and Louis Gottignies, Watermael-Boitsfort, Belgium
Application September 1, 1939, Serial No. 293,116
In Belgium September 3, 1938
2 Claims. (Cl. 13—22)



1. Tunnel furnace comprising a plurality of tunnels, electric heating resistances arranged in rectilinear channels in the walls of said tunnels for heating the latter, and supplementary heating resistances in the exterior walls for generating sufficient heat as to maintain substantially the same temperature in the same transversal plane of all passages despite the thermal losses through said exterior walls, the supplementary resistances being arranged in those of the exterior walls, which are at right angles to the direction of said rectilinear channels.

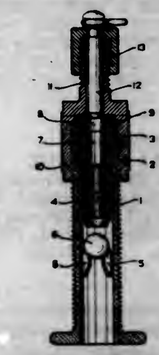
2,279,512
MOLDING COMPOUND
Frank J. Groten and James H. Lower, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 1, 1940, Serial No. 349,300
12 Claims. (Cl. 260—45)

1. A method of preparing a thermosetting resin capable of being cured without further addition of catalyst which comprises condensing with an aldehyde the material obtained upon heating dicyandiamide and a phenol until from 0.07 to 0.18 mole of ammonia per mole of dicyandiamide are evolved while maintaining the pH at a relatively constant value between about 9.1 and 9.5 throughout the aldehyde condensation.

2,279,513
VALVE
David Hage, Hoorn, Netherlands
Application October 24, 1939, Serial No. 301,034
In the Netherlands December 10, 1938
1 Claim. (Cl. 251—121)

A valve device comprising a casing, a check valve structure housed within said casing and comprising a part which partially projects into the casing and is provided with a duct and a shoulder engaging the outer end face of the casing, an elastic tube clamped between said part and the inner wall of the casing for jacketing said part and projecting beyond said part to form a valve seat, a check valve within said casing cooperating with said seat, a seating mem-

ber of relatively hard rubber or like material arranged with its inner end face against the outer end face of said part and provided with a



duct communicating with the duct of said part, and a gland member in threaded engagement with the casing and adapted to press the seating member against the outer end face of said part.

2,279,514

ACETAMIDINE ANTHRANILATE AND ITS PREPARATION

Garnet Philip Ham, Old Greenwich, and Robert Bowling Barnes, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application April 29, 1941, Serial No. 390,924
3 Claims. (Cl. 260—501)

1. Acetamidine anthranilate.

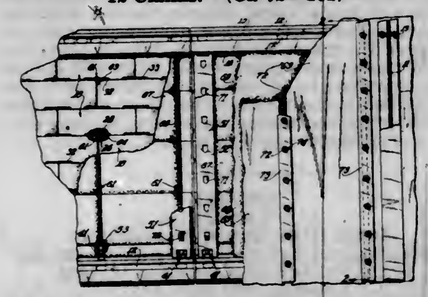
2. A method of preparing acetamidine anthranilate which comprises reacting an acetamidine salt with anthranilic acid in the presence of an alkali.

2,279,515

FURNACE WALL CONSTRUCTION

Louis H. Hosbein, Glencoe, Ill., assignor to M. H. Detrick Company, Chicago, Ill., a corporation of Delaware

Application October 18, 1939, Serial No. 300,020
12 Claims. (Cl. 72—161)



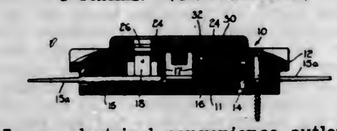
1. A furnace wall, comprising a supporting frame, a plurality of interengaging refractories mounted in staggered relationship relative to each other, hanger means mounted on said frame in spaced relation to said refractories for engaging only a relatively small portion of each of said refractories to support and positively retain the same in proper alinement, and a backing of insulation material for said refractories substantially enclosing said hanger means.

2,279,516

ELECTRICAL CONVENIENCE OUTLET

Joseph F. O'Brien, Jersey City, N. J., assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York

Application April 20, 1940, Serial No. 330,647
5 Claims. (Cl. 173—334.1)



1. In an electrical convenience outlet having a body, contact means disposed within said body and apertures affording access to such contact means, the combination with insulator means of resilient material fixed within a recess formed in an upper surface of the body and having normally closed openings disposed in operative relationship to said access apertures, of cap means removably associated with said body and provided with a raised surface on its under side arranged to bear against said resilient insulator means to compact the same within the recess.

2,279,517

COAT AND SHIRT DISPLAY FORM

Bernard Oestricher, Long Beach, N. Y.

Application July 17, 1940, Serial No. 345,925
6 Claims. (Cl. 223—68)



1. In a coat and shirt display form, a hollow form body simulating the torso and having a front portion with a flat downwardly inclined neck area at the neck portion and a recessed area at the front extending from the neck and shoulders to the waist, means for releasably holding a folded shirt in said recessed front and on said inclined neck area, said front portion having a slot through the material thereof at the bottom of said recessed area for the bottom portion of the folded shirt to pass through, and means for tensioning said bottom portion of said shirt, comprising a rod mounted upon the bottom portion of said folded shirt, and means for holding said rod in various positions to tension said bottom portion of the shirt.

2,279,518

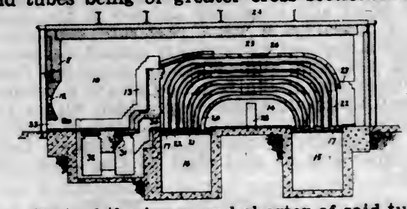
AIR HEATING FURNACE

Arthur A. Olson, Youngstown, Ohio

Application March 26, 1940, Serial No. 326,017
2 Claims. (Cl. 126—109)

1. An air heating furnace comprising in combination a refractory lined casing having a transversely extending wall defining a combustion chamber positioned in the fore part of said casing, a pair of longitudinally spaced air ducts extending transversely below the rear part of said casing, a perforated plate closing off the top of each of said ducts, a plurality of series

of arched air conducting tubes spanning said plates and having their ends communicating with the apertures in said plates, said tubes being positioned in said casing on the opposite side of said wall from said combustion chamber and lying in vertical planes extending longitudinally of said casing, said series of tubes being arranged in vested relation with the outer and longer of said tubes being of greater cross-sectional area



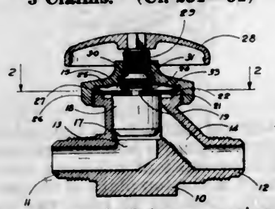
than that of the inner and shorter of said tubes, a refractory baffle wall supported immediately above the outer of said tubes and extending from adjacent the upper end of said first mentioned wall to substantially the rear wall of said casing to define a horizontally extending flue for the products of combustion, and a plurality of exhaust ports for said products of combustion positioned adjacent the forward end of said tubes.

2,279,519

PACKLESS VALVE

Joseph Norman Paquin, Euclid, Ohio, assignor to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio

Application August 8, 1940, Serial No. 351,861
3 Claims. (Cl. 251—31)



1. In a valve embodying a casing having a chamber therein with ports communicating therewith, a bonnet and a resilient diaphragm held at its periphery between said casing and bonnet, the combination of an axially movable plug valve slidable on walls of the chamber and engageable at one end with a seat in said chamber, said plug valve having at the other end a reduced stem with an enlarged head thereon engageable with said diaphragm, a flat, generally rectangular metal spring, comprising a plurality of bifurcated laminations, supported at its ends on said casing and embracing said stem and engaging said head, and means in said bonnet to depress said diaphragm and spring and seat said plug valve.

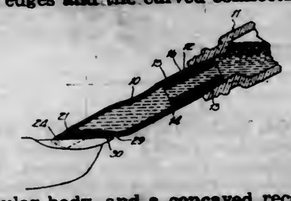
2,279,520

NAIL POLISH APPLICATOR

William R. Perillo, New York, N. Y.

Application April 25, 1940, Serial No. 331,503
6 Claims. (Cl. 15—133)

1. A device of the character described comprising in combination, a tubular body, means for attaching one end of the tubular body to a bottle or similar receptacle, the opposite end of the tubular body terminating in a relatively thin outwardly flared portion having angular side edges connected by an intermediate curved end edge, a relatively narrow discharge opening extending throughout the length of the angular side edges and the curved connecting edge of



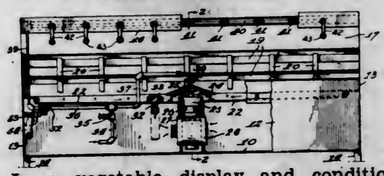
the tubular body, and a concaved recess formed on the under side of the tubular body and extending rearwardly thereof from the curved end edge.

2,279,521

VEGETABLE DISPLAY AND CONDITIONING STAND

Vernon A. Peterson, Palm Springs, Calif.

Application June 17, 1940, Serial No. 340,978
10 Claims. (Cl. 211—127)



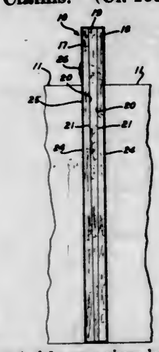
1. In a vegetable display and conditioning stand, the combination with a substantially rectangular housing having a bottom, a front wall, a rear wall and end walls, the rear wall extending above the front and end walls of the housing, of means for supporting trays in the upper portion of said housing, a pan supported within said housing below said trays, said pan being provided with an opening, means for forcing air from the chamber below said pan upwardly through said opening and upwardly through the trays supported in the upper portion of the housing, a hood positioned above the opening in said pan and means for discharging water onto said hood.

2,279,522

PACKAGE OR CONTAINER SPACER BLOCK

Stanley Price, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application March 13, 1941, Serial No. 383,103
6 Claims. (Cl. 105—369)



1. A demountable spacing block for spacing articles or containers in a carrier comprising an

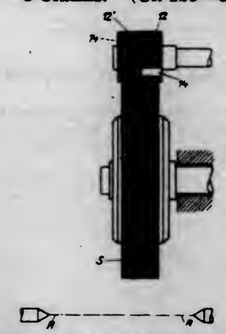
assemblage of tapered members having inclined inner abutting faces and parallel outer faces opposite the inclined faces for engaging opposed sides of the containers, and a retaining band for preventing longitudinal displacement between the members when in use.

2,279,523

MEANS FOR DRESSING GRINDING DISKS

Alfred Rickenmann, Zurich, Switzerland, assignor to Reishauer Tool Works Limited, Zurich, Switzerland, a corporation of Switzerland

Application December 12, 1938, Serial No. 245,262
In Germany August 26, 1938
3 Claims. (Cl. 125—37)



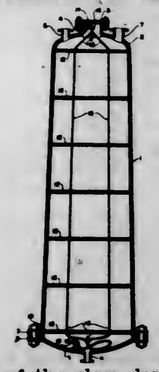
1. A grinding disk rotating on its axis, a rotatable pressure roller having a peripherally grooved cutting surface, means by virtue of which said roller may be brought into operative contact with said grinding disk, and means to keep the said roller and the said grinding disk in operative contact when profiling the grinding disk, the said means consisting of at least two coaxially divided parts, each of said parts provided with a segmental recess, the said recesses being arranged at such an angle to one another that during profiling of the grinding disk always one roller part remains in operative contact with the said grinding disk.

2,279,524

COKING CHAMBER

Leonard W. Robbie, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application August 15, 1940, Serial No. 352,735
3 Claims. (Cl. 202—266)



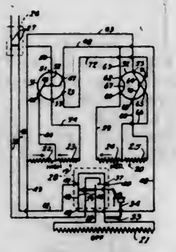
1. A vessel of the class described comprising, in combination, a substantially vertical, substantially cylindrical metal shell normally closed at its upper end and of progressively increasing internal diameter from its upper to its lower end, the interior surface of the sloping walls of the shell being substantially smooth and free of obstructions and said walls terminating at their point of greatest diameter, a metal head spanning the entire diameter of the shell at its lowermost point and releasably secured to the shell, and a plurality of rigid perforate supporting members disposed at vertically spaced elevations within said shell and releasably suspended from the upper end of the vessel by means accessible through an opening therein provided with a removable cover plate, each of said web-like members progressively increasing in diameter from the upper end of said shell to the lower end thereof.

2,279,525

ELECTRIC STOVE

John C. Rogers, Oak Park, Ill., assignor to Crown Stove Works, Cicero, Ill., a corporation of Illinois

Application February 23, 1940, Serial No. 320,259
2 Claims. (Cl. 219—20)



1. In an electric circuit for a stove of the character described, a source of electrical power, two resistance heater units of different wattage capacities located in the top plate of the stove, each of which units includes at least two resistance elements which may be connected to the source of power in series, singly, or in parallel, and control means for said heater units including conductors and a separate, multi-pole, heat control switch having high, medium, and low control positions for each heater unit, said control means serving to connect both of the resistance elements of either heater unit in series with each other and to said source of power when the respective control switch is moved to the low heat position, to connect one only of the resistance elements of either heater unit to said source of power when the respective control switch is moved to the medium heat position, and to connect both of the resistance elements of either heater unit in parallel with each other and to said source of power when the respective control switch is moved to the high heat position, the circuit connection between the source of electrical power and one of the two resistance elements comprising one of said heater units passing through one of the poles of the control switch for the other heater unit and that pole being open when the switch of which it constitutes a part is in the high heat position and being closed at all other times, said control means thereby preventing simultaneous operation of more than one of said heater units at high heat but permitting all other possible operating combinations.

2,279,526

SOLUBLE PHENOLIC RESIN

Israel Rosenblum, New York, N. Y.

No Drawing. Application December 3, 1938, Serial No. 243,881
21 Claims. (Cl. 260—25)

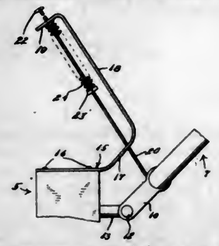
1. The method of producing fusible phenol-formaldehyde condensates soluble in varnish oils which comprises reacting a phenol of the class consisting of phenols having a substituting hydrocarbon group and condensation products of phenols with ketones, formaldehyde, and a terpene material consisting essentially of dipentene with the aid of a quantity of a base sufficient to convert the mixture into a uniform solution, at temperatures of the order of 60° C. and above, acidifying the reaction mixture, washing the condensate layer, mixing the same with a compatible natural resin, and then heating the mixture to dehydrate it and expel uncombined dipentene until a product which is solid at room temperatures is obtained and has the natural resin incorporated therein.

2,279,527

SELF-CLOSING GATE OR THE LIKE

John Rosheim, Scarville, Iowa

Application September 17, 1940, Serial No. 357,174
2 Claims. (Cl. 16—72)



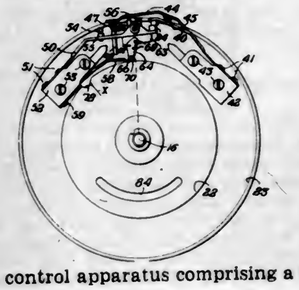
1. A buffer device comprising a relatively stationary support, a yieldable bracket projecting laterally therefrom and having substantially parallel parts, a rod slidably mounted through openings formed in said parts of said bracket, a helical spring circumposed on the rod between said parts of the bracket, and a stop engaging the end of the spring opposite that engaging one of the said parts, said stop being mounted on the rod for adjustment therealong to vary the compression of the spring.

2,279,528

CONTROL APPARATUS

Raymond W. Ross, Philadelphia, Pa., assignor to Leeds & Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania

Application July 3, 1940, Serial No. 343,761
21 Claims. (Cl. 236—70)



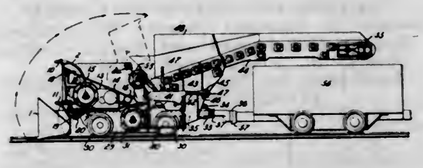
4. In a control apparatus comprising a member movable in response to changes in magnitude of a condition, a switch with respect to which said member is movable comprising contacts held in engagement with each other by said member throughout one portion of its range of movement and held from engagement with each other by said member throughout a contiguous portion of its range of movement, and means controlled by said member upon movement from one to the other of said portions of its range of movement to effect substantial relative movement of said contacts toward or from engagement with each other in dependence upon the direction of movement of said member.

2,279,529

SHOVELING MACHINE

Edwin B. Royle, Salt Lake City, Utah, assignor to The Eimco Corporation, Salt Lake City, Utah, a corporation of Utah

Application August 15, 1940, Serial No. 352,785
8 Claims. (Cl. 214—90)



1. A shoveling and loading machine of the class described, comprising in combination a mobile base, a scoop-supporting and guiding structure pivotally connected to said base to swing in a substantially horizontal plane, a scoop, a scoop-rocking mechanism on said scoop-supporting and guiding structure for rocking said scoop in a curved path from a forward digging position to a backward and elevated dumping position substantially over said pivotal connection, power means for swinging said scoop-supporting and guiding structure horizontally laterally about said pivotal connection, the combination wherein a hopper-ended conveyor system swingably is mounted on said mobile base posteriorly of the scoop-supporting and guiding structure and with the center of its hopper disposed above and substantially over the pivotal axis of the scoop-supporting and guiding structure, and means for adjustably coupling said mobile base to a car to be loaded with material.

2,279,530

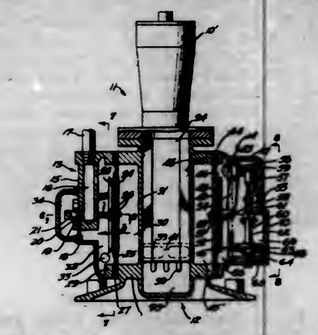
MEANS FOR PREPARING COMBUSTIBLE FUEL

Harold W. Smith, Los Angeles, Calif., assignor, by mesne assignments, to American Liquid Gas Corporation, Los Angeles, Calif., a corporation of California

Application August 13, 1938, Serial No. 224,718
5 Claims. (Cl. 48—180)

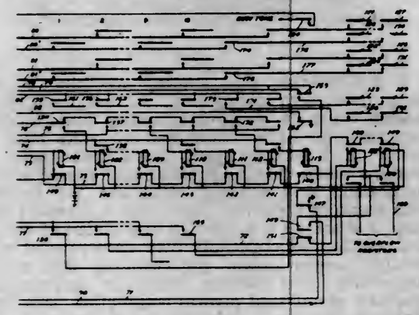
1. In combination with a source of fuel characterized as being a liquid when under compression and a gas when released, a conduit through which the fuel passes from the source to apparatus designed for its use, which conduit includes means for permitting multiple stage expansion of the gas, means associated therewith for admitting air to said gas after passing the last stage of expansion and for conducting said gaseous mixture to the apparatus, and a conduit being provided with passageways whereby the

expanding gas and the gaseous mixture may



flow in heat-exchange relationship to each other.

2,279,531
AUTOMATIC TELEPHONE SYSTEM
Norman H. Saunders, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a corporation of Illinois
Application July 18, 1940, Serial No. 346,069
24 Claims. (Cl. 179—18)



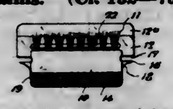
1. In an automatic selector switch, means including a series of counting relays directively controlled in accordance with a digit of a called number for selecting any one of a plurality of groups of trunk lines, and means effective automatically responsive to the completion of the group selection for reoperating said counting relays to search for an idle trunk line in the selected group.

2,279,532
CLEANING COMPOSITION
Harry A. Seran, Cucuta, Colombia
No Drawing. Application May 4, 1940, Serial No. 333,426
4 Claims. (Cl. 252—94)

1. A composition of matter adapted for the cleaning of fabric articles comprising the following ingredients in substantially the proportions:

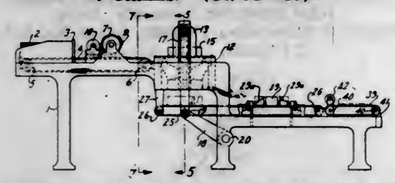
	Parts by weight
Phosphorus sesquisulphide	4½
Potassium chlorate	10
Iron oxide	5
Zinc oxide	3
Glass powder	7½
Glue	10
Water	20
Asbestos	40

2,279,533
MANICURE DEVICE
William E. Shore, West New Brighton, N. Y.
Application October 7, 1940, Serial No. 360,017
11 Claims. (Cl. 132—75.6)



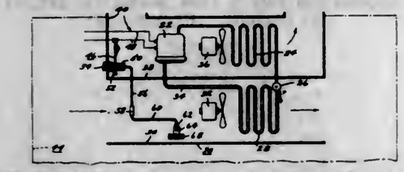
1. A manicure device comprising in combination, a holder, a row of bristles set at a plane angle in the edge of the holder, a plate secured along one side of the bristles, and means on the plate to press the bristles back to cause their ends to stand away from said plate and form a thin edge and to place them under tension.

2,279,534
METHOD AND MACHINE FOR MAKING AND COLLAPSING PAPER BOXES
Melvin H. Sidebotham, West Newton, Mass., and Ross A. Himes, Emeryville, Calif.
Application November 27, 1940, Serial No. 367,442
7 Claims. (Cl. 93—49)



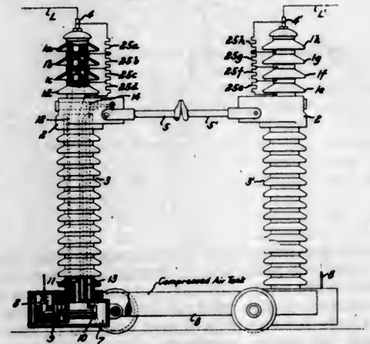
1. The method of making collapsed paper boxes from blanks which are cut and creased to provide a bottom section, side walls having side wall extensions and extension flaps at the ends thereof, and end walls having end wall extensions and end wall extension flaps; said method consisting of applying adhesive to predetermined areas of the blank, folding upwards the side wall extensions and side wall extension flaps, folding the side walls to vertical position, and folding the end walls to vertical position and folding the end wall extensions and end wall extension flaps against corresponding areas of the side walls, and thereafter folding the side walls and end walls inwardly to lie parallel with the bottom section of the box.

2,279,535
REFRIGERATING APPARATUS
Carl A. Stickel, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application February 28, 1939, Serial No. 258,968
10 Claims. (Cl. 236—44)



10. In combination, an air tempering means, a control means for said air tempering means, said control means including a fluid motor operating means and a plurality of thermostat bulbs operably connected to said operating means, one of said thermostat bulbs being responsive to dry bulb temperatures and being charged with absorbent material effective substantially in the proportion that dry bulb temperatures influence the effective temperature in the operating range, another of said thermostat bulbs being responsive to wet bulb temperatures and being charged with absorbent material effective substantially in the proportion that wet bulb temperatures influence the effective temperature in the operating range, said thermostat bulbs being charged with a gas capable of being absorbed by the absorbent material.

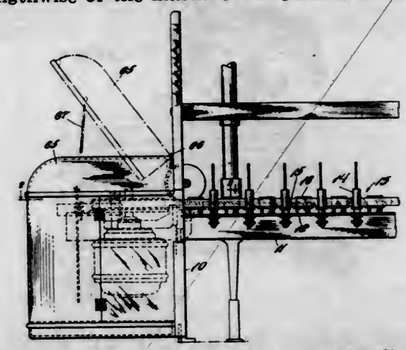
2,279,536
ELECTRIC CIRCUIT BREAKER
Hans Thommen, Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland
Application February 8, 1940, Serial No. 317,948
In Germany May 27, 1938
13 Claims. (Cl. 200—148)



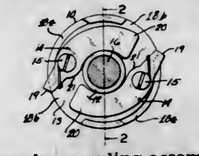
1. In a circuit breaker, a vertical supporting insulator, a plurality of arcing chambers in axial alinement with and superposed upon said insulator, each arcing chamber comprising a hollow insulator forming the circumferential wall of the chamber and metal plates forming the top and bottom walls thereof, inlet passages for admitting pressure gas to each chamber, a pair of arcing contacts within each chamber and electrically connected to the top and bottom walls thereof, pistons slidable in cylinders within the respective chambers and carrying one contact of each pair, spring means urging said pistons towards circuit closing position, an opening in the wall of each cylinder to admit pressure gas from the chamber to actuate the piston to circuit opening position, one of said contacts being of nozzle form, and an outlet passage extending from said nozzle form contact to atmosphere to establish a gas blast for extinguishing the arc drawn by a separation of the contacts.

2,279,537
SPINNING AND TWISTING FRAME
Delbert P. Tillinghast, Stonington, Conn., assignor to Atwood Machine Company, a corporation of Connecticut
Application February 11, 1941, Serial No. 378,403
7 Claims. (Cl. 57—105)

1. In a textile machine, a belt traveling in generally a horizontal path and having a U-shaped bight, a motor having a pulley in said bight for driving said belt, a carriage for the motor, a pair of spaced fixed tracks, wheels on the carriage engaging said track to roll thereon, a fixed anti-friction support and an arm on said carriage engaging said anti-friction support to roll thereon, said wheels and anti-friction support forming an isosceles triangle with said support as the apex and with the apex of the triangle formed positioned to be in a plane extending generally lengthwise of the machine and passing substantially midway between the sides of said belt, and means for spring-loading said carriage positioned intermediate the end extremity of said arm and said pulley.



2,279,538
IMPULSE COUPLING
Edward A. Vogel, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application November 10, 1939, Serial No. 303,928
2 Claims. (Cl. 171—209)



1. In an impulse coupling assembly of the type described, including resiliently coupled driving and driven members, a pawl, a pivot pin secured to one of said members and upon which said pawl is mounted for pivotal movement, said pin being formed to provide a spring-receiving seat and a grooved recess extending transversely through the pin, in the zone of said seat, a coil type spring arranged in said spring seat and having one end thereof received in said grooved recess, the other end of said spring providing a spring arm projecting laterally and substantially tangentially to the spring coil, in a direction to overlie said pawl, the spring arm being spaced from said pawl, said pawl having a recess formed in a portion thereof, the longitudinal axis of said pawl recess being directed substantially tangentially to the surface of said spring-receiving seat, and said projecting spring arm terminating in a reversely bent portion adapted for seating in said pawl recess.

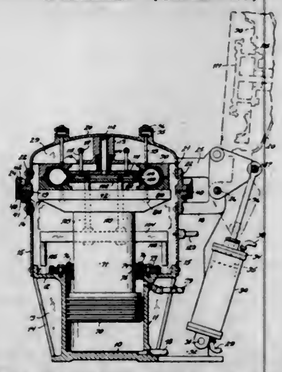
2,279,539
HORSE TRAINING APPARATUS
Clarence W. Vogt, Norwalk, Conn., and Eino E. Lakso, Fitchburg, Mass.; said Lakso assignor to said Vogt
Application December 7, 1939, Serial No. 307,958
13 Claims. (Cl. 119—29)

1. An apparatus for training horses for hurdle jumping comprising a pair of catapult units, each including a spring-pressed propulsion lever, a latch mechanism for cocking said lever against the action of the spring, and means for support-

ing a pole near one end in the propelling path of action of said lever, whereby said pole is supported between the two units, and means for releasing said lever to hurl said pole against the horse as he leaps over the hurdle.

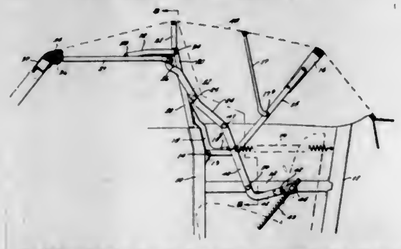


2,279,540
VULCANIZING PRESS
Walter P. Voth and Charles B. Hudson, Akron, Ohio, assignors to Akron Standard Mold Company, Akron, Ohio, a corporation of Ohio
Application February 28, 1939, Serial No. 258,984
2 Claims. (Cl. 18—17)



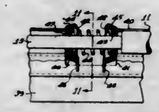
2. In a vulcanizing machine, a casing having a hollow cylindrical upper section and a hollow cylindrical base section of a reduced internal diameter, a piston in the base section, a piston rod carried by the piston in spaced relation to the wall of the base section, and extending upwardly into the upper section, a packing gland secured to the base section and encircling said piston rod between the piston and the upper section and arranged and adapted to protect the upper section from fluid pressure in the base section, said piston being arranged to divide the base section into upper and lower chambers, a hinged cover for the upper section, a mold member carried by said cover, a second mold member in the upper section of said casing and supported on the upper end of said piston rod, two bead rings, one resiliently carried by the cover and associated with the upper mold member and the other associated with the lower mold member and supported outside the piston, the piston being movable independently of such ring, both of said mold members being spaced from the side wall of the casing, the cover and upper section of said casing coacting to form a steam chamber which encloses the mold members when the cover is in a closed position, means to admit steam into the steam chamber and means to admit fluid pressure to the upper chamber of the base section of said casing as desired, whereby said last named mold member may be moved away from the first named mold member, while the steam is being exhausted from the upper section of the casing.

2,279,541
FOLDABLE VEHICLE TOP
Frederick J. Westrope, Pleasant Ridge, Mich., assignor, by mesne assignments, to Reconstruction Finance Corporation, Detroit, Mich., a corporation of the United States
Application April 9, 1940, Serial No. 328,719
2 Claims. (Cl. 296—112)



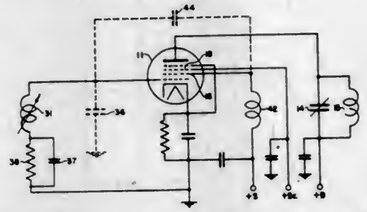
1. In a vehicle body having oppositely disposed intermediate pillars, side frame members pivoted to the body and joined together by a cross bow rearwardly of the pillars, extension members respectively for the pillars and pivoted to the body, a pair of lever members pivoted intermediate their ends and respectively to and intermediate the ends of said extension members, said lever members in the raised position of the top having upper hooked end portions providing downwardly facing socket engaging members, a pair of longitudinally extending frame top members having sockets respectively to receive said lever members, link members pivotally connected respectively to and intermediate the ends of said frame members and to said extension members, and a pair of operating levers pivoted to the body and to the lower ends respectively of said first-named lever members.

2,279,542
VISOR
Frederick J. Westrope, Pleasant Ridge, Mich., assignor, by mesne assignments, to Reconstruction Finance Corporation, Detroit, Mich., a corporation of the United States
Application March 28, 1941, Serial No. 385,734
1 Claim. (Cl. 296—97)



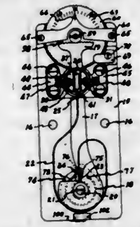
In a visor assembly, a supporting rod having a rotation-preventing portion therealong, a pair of elements non-rotatably but slidably mounted on said rod portion, yielding means for urging said elements in opposite directions, a second pair of elements mating respectively with the first pair, one pair of elements being concave and the other pair being convex, and a visor secured to one pair of said elements.

2,279,543
ULTRA-HIGH-FREQUENCY SIGNAL-TRANSLATING STAGE
Harold A. Wheeler, Great Neck, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware
Original application October 29, 1938, Serial No. 237,665. Divided and this application June 7, 1939, Serial No. 277,862
14 Claims. (Cl. 179—171)



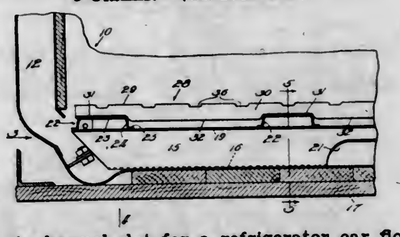
1. An ultra-high-frequency signal-translating stage for operating over a wide band of frequencies comprising, a vacuum tube having a cathode, an anode, and a control electrode, an input circuit coupled to said cathode and said control electrode and tunable over said band of frequencies, an output circuit coupled to said anode and said cathode, said stage having incidental reaction to said input circuit tending to develop substantial positive conductance thereacross under normal operating conditions, an additional electrode in said vacuum tube between said control electrode and said anode, said stage having appreciable capacitance between said control electrode and said additional electrode, means for minimizing the feedback from said output circuit to said input circuit of signal energy of the frequency to which said input circuit is tuned, a circuit coupled to said additional electrode and said cathode including inductance proportioned to render said additional electrode circuit inductively reactive over said range of operating frequencies of said input circuit, and means for applying a unidirectional positive potential to said additional electrode, said inductance being of such value with respect to said capacitance as effectively to neutralize a substantial part of said conductance of said input circuit over said band of operating frequencies.

2,279,544
THERMOSTATIC CONTROL DEVICE
Everett H. White, St. Paul, Minn.
Application February 17, 1940, Serial No. 319,493
28 Claims. (Cl. 200—139)



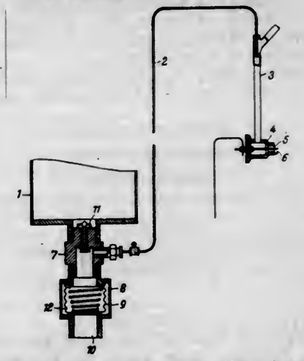
1. In a thermostatic control device, spaced apart magnetic poles, a thermostatically responsive member, and an armature adapted to be adjusted as to width supported by said thermostatically responsive member and disposed between said magnetic poles.

2,279,545
FLOOR RACK
Edward W. Zane, Chicago, Ill., assignor to Union Railway Equipment Co., Chicago, Ill., a corporation of South Dakota
Application April 23, 1941, Serial No. 389,873
9 Claims. (Cl. 105—375)



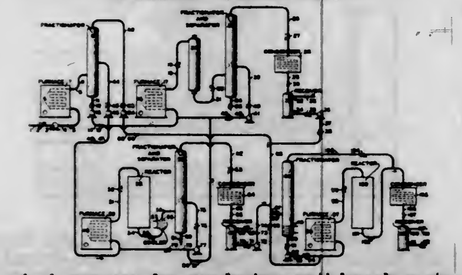
1. A channel slat for a refrigerator car floor rack having a lading supporting web and depending side walls, the web being depressed at spaced intervals along its length to form transverse, open top, air ducts, and including an aperture wholly contained in each depressed web portion.

2,279,546
IGNITING MEANS FOR FUEL-AIR BURNERS
Serge Ziegler, Berlin, Germany
Application April 11, 1939, Serial No. 267,357
In Germany July 14, 1934
4 Claims. (Cl. 158—28)



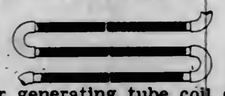
1. In an igniting means of the character described, an ignition device, means for supplying igniting fuel to said device, said means comprising a spring loaded diaphragm pump, a valve housing in communication with and located directly above said pump, an igniting oil pipe from said valve housing below the top thereof to said ignition device and constantly in communication at its entrant end with said valve housing, a non-return valve located in said valve housing above the place where said pipe is connected to the housing, an ignition fuel reservoir located directly above said valve housing and communicating with the same via said non-return valve, means to apply force to said diaphragm pump in opposition to that of its spring to force ignition fluid from said valve chamber into and through said igniting oil pipe, said igniting oil pipe having means to prevent return flow of igniting oil into said valve housing, by virtue of all of which any vapors in the diaphragm pump and in the valve housing will, upon the opening of said valve, pass into said reservoir thereby preventing such vapors being forced into said igniting oil pipe.

2,279,547
HYDROCARBON CONVERSION
Gordon B. Zimmerman, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application June 9, 1939, Serial No. 278,203
6 Claims. (Cl. 196—49)



4. A process for producing anti-knock motor fuel from crude petroleum which comprises topping the crude to separate straight-run gasoline fractions therefrom, cracking portions of the crude heavier than gasoline to produce cracked gasoline, combining the latter with said straight-run gasoline fractions, subjecting the resultant mixture to aromatization in the presence of a dehydrocyclization catalyst, and recovering the aromatized gasoline.

2,279,548
LIQUID VAPORIZING TUBE
Ervin G. Bailey, Easton, Pa., assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application June 11, 1938, Serial No. 213,130
9 Claims. (Cl. 122—235)



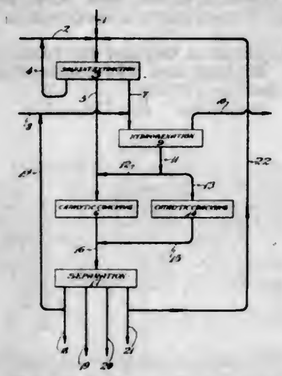
1. A vapor generating tube coil consisting of a series of side-by-side tubes of circular cross-section serially connected at their opposite ends by reverse bends, adjacent tubes having their inner wall surfaces alternately rifled in opposite directions.

2,279,549
PROCESS OF TREATING A FIBROUS WEB
John M. Behnke, New York, N. Y., assignor to Weycraft Paper Corporation, a corporation of Delaware
No Drawing. Application January 17, 1940, Serial No. 314,294
16 Claims. (Cl. 91—68)

5. The method of treating a fibrous web comprising passing it through a dilute solution of glue and water, drying the web and then impregnating it with an aqueous solution of glue, glycerine and a water-insoluble metallic oxide in suspension, said solution having a pH range value of from about 9.2 to about 9.8 and finally treating the coated web with a solution of formaldehyde and water.

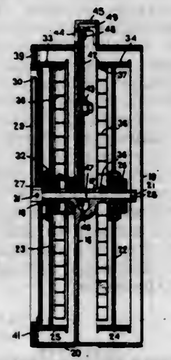
2,279,550
TREATMENT OF CRACKING STOCKS
Wayne L. Benedict and Jacob Elston Ahlberg, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application March 31, 1939, Serial No. 265,216
8 Claims. (Cl. 196—13)

7. In the conversion of hydrocarbons wherein hydrocarbon oil is catalytically cracked and insufficiently converted products separated from gasoline and gas, the method which comprises extracting said products with a selective solvent,



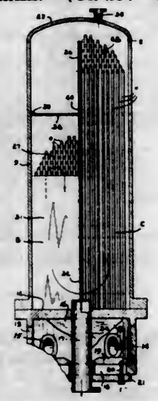
hydrogenating the resultant extract, and returning the hydrogenated extract to the catalytic cracking operation.

2,279,551
INDICATING MECHANISM
Romeo A. Bossi, Newton Center, Mass.
Application July 24, 1940, Serial No. 347,157
6 Claims. (Cl. 116—129)



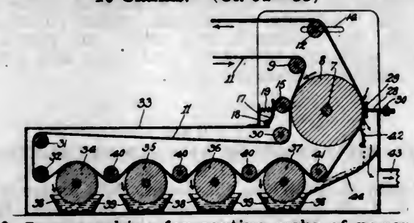
1. Indicating mechanism comprising an indicator, two pulleys, each having a cylindrical flange of the same diameter, a shaft, the said pulleys mounted the first to rotate with the shaft and the second with respect to the shaft, an annulus at one side of the second pulley, a dial mounted to rotate in parallelism with the pulleys and having an annulus on its face a segment of which extends radially beyond the first annulus, a driving connection between the shaft and the dial, the said annuluses calibrated on their faces in linear units corresponding to the units of the circumferential length of the flanges of the pulleys, two cords respectively attached to, and wound around the flange of, said pulleys and acting when pulled to rotate the respective pulleys, take-up means acting to effect reverse rotation of the pulleys whereby when the cords are extended laterally of the indicator and held taut the length of each cord pulled out will be indicated on the associated annulus and a differential of the said lengths wil be indicated by the angular relation of the pointers.

2,279,552
HEAT EXCHANGE APPARATUS
Robert A. Bowman, Folcroft, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 22, 1940, Serial No. 366,584
1 Claim. (Cl. 257—28)



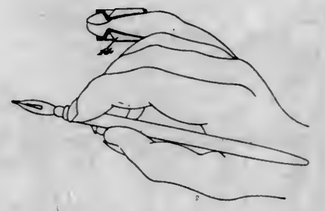
Heat exchange apparatus comprising a vertically-disposed shell, a plurality of inverted U-tubes extending vertically in said shell, water-box structure associated with the terminal portions of said tubes and providing for circulation of water therethrough in a plurality of passes, a first vertical baffle separating a group of the U-tubes from the remainder thereof, a second vertical baffle disposed betwen the legs of the U-tubes of said separated group and dividing the space surrounding the latter within the shell into first and second steam passes, said shell having a steam inlet to the lower end of the first steam pass and a condensate outlet from the lower end of the last steam pass, and the U-tubes of said separated group being shorter than the remaining tubes and of such length that the transition point from desuperheating to condensing occurs in the second steam pass beyond the bend in the tubes considered in the direction of steam flow.

2,279,553
METHOD AND APPARATUS FOR APPLYING COATINGS TO WEBS
Rexford H. Bradt, Appleton, Wis., assignor to Fox River Paper Corporation, Appleton, Wis., a corporation of Wisconsin
Application July 1, 1939, Serial No. 282,329
10 Claims. (Cl. 91—33)



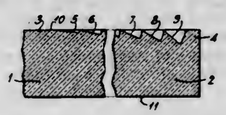
9. In a machine for coating webs of paper or the like, a housing, a horizontally axised roller extending into said housing, means for maintaining a partial vacuum within the space defined by said housing and roller, means for guiding a web for passage about said roller, a liquid transporting means located within said housing and entirely within said vacuum, means for maintaining a body of liquid in said housing out of contact with said roller but in contact with said transporting means, and means for doctoring said coating as the web passes out of the housing.

2,279,554
FINGER HOLDER FOR SHEET MATERIAL
Mervin R. Brubaker, New York, N. Y.
Application July 11, 1940, Serial No. 344,858
4 Claims. (Cl. 120—25)



1. A finger holder device for sheet material, comprising a trough-like body having a substantially flat rectangular base portion, side walls extending from said base portion and substantially at right angles thereto, said base and side walls being shaped to receive the finger of a person and frictionally engage said finger to releasably secure said device in operative position on the finger, the opposed free edges of said side walls being formed to provide an opening of such extent and configuration that when the device is worn on the finger it will not interfere substantially with the adjacent finger of the hand, said device having means for releasably securing on the outer surface of said base portion a piece of sneet material in proper position to be operative by movement of the finger.

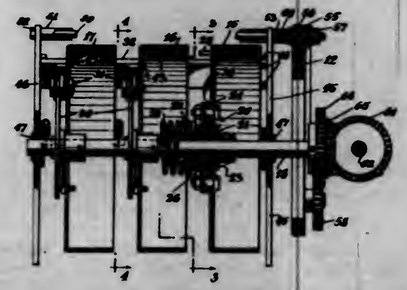
2,279,555
OPTICAL IMAGE PRODUCING AND VIEWING ARRANGEMENT
Cecil Oswald Browne, West Acton, London, and Herbert Edward Holman, Hayes, England, assignors to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain
Application July 30, 1938, Serial No. 222,120
In Great Britain July 31, 1937
3 Claims. (Cl. 88—24)



1. A projection screen for television comprising a planar transparent member having at least two substantially parallel faces, one of said faces having a plurality of concentric recesses therein, each of said recesses having substantially the same width in the plane of said one face and a radial cross-section of substantially sectorial shape with the centers of the sectorial radius of said recesses lying in the said one face, the arc of the sector constituting the outer wall of the recess with respect to the common center of said recesses, and further characterized by the fact that the angle of the radial boundary of said recesses with respect to the plane of the

said one face increases progressively as the radial distance of said recesses from the common center of said recesses.

2,279,556
COUNTING MECHANISM
Kenly C. Bugg, Farmington, Me., assignor to Neptune Meter Company, a corporation of New Jersey
Application August 16, 1939, Serial No. 290,401
9 Claims. (Cl. 235—1)



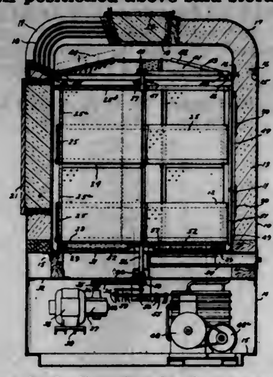
1. In counting mechanism having a supporting frame and driving means including a pair of gears for transmitting counting and resetting movements respectively; the combination of a counter assembly adapted to be removably mounted as a unit upon said frame in coactive relation with said driving means, said counter assembly comprising a plurality of counting elements, a shaft operatively associated with each of said elements, and gear means carried by said shaft for operative association with said pair of gears, and means for removably securing said counter assembly in operative position on said frame, the mounting and removal of the unit being in a direction axially of said shaft.

2,279,557
HOT MELT RUBBER CONDENSATION DERIVATIVE COMPOSITION
William C. Calvert, Gary, Ind., assignor to Marbon Corporation, Gary, Ind., a corporation of Delaware
No Drawing. Application July 25, 1938, Serial No. 221,097
2 Claims. (Cl. 260—734)

1. A method of preparing a composition for use in hot melt coating, which method comprises heating to a molten condition a composition comprising a polyamyl naphthalene and a condensation derivative of rubber obtained by reacting rubber with a phenol and an acid isomerizing agent.

2,279,558
REFRIGERATION DEVICE
Leonard F. Clere, Chicago, Ill.
Application September 20, 1940, Serial No. 357,573
12 Claims. (Cl. 62—89.5)

1. In a refrigeration device, including an outer shell, an inner shell, and coils of a refrigerating machine in contact with said inner shell, the combination of a storage section rotatable in the space defined by said inner shell, the said storage section consisting of two or more shelves secured to one another by means of perforated walls, there being also a display section comprising another shelf positioned above said storage shelves,



and means including tracks for supporting said shelves.

2,279,559
BLACKBOARD ERASER
Earl N. Darling, Rockland, Idaho
Application December 14, 1940, Serial No. 370,207
2 Claims. (Cl. 15—231)



1. In a black-board eraser, a shell having downwardly extended flanges, a pair of spring-pressed arms pivotally mounted on each of the end flanges, said arms having movements in opposite directions under action of spring pressure in the direction of the side flanges, said side flanges having serrations, a pad support having resilient arms constructed for placement within the flanges of the shell and a pad member carried by the support adapted to be engaged between the spring-pressed arms, resilient arms and said side flanges.

2,279,560
VISCOUS HYDROCARBON OIL
Melvin A. Dietrich, Claymont, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 8, 1940, Serial No. 334,066
5 Claims. (Cl. 252—47)

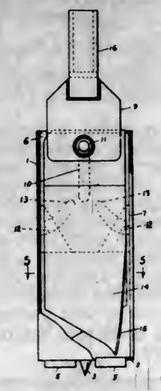
1. A composition comprising a major proportion of a viscous hydrocarbon oil having incorporated therein a small proportion of an organic hydroxamic acid compound selected from the group consisting of organic sulfonhydroxamic acids, the carboxylic acid esters and ethers of said acids and carboxylic acid esters and ethers of organic hydroxamic acids.

2,279,561
STABILIZATION OF VISCOUS PETROLEUM OILS
Melvin A. Dietrich, Claymont, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 15, 1940, Serial No. 335,371
13 Claims. (Cl. 252—50)

1. A viscous petroleum oil normally subject to deterioration in color having incorporated

therein a small proportion of a condensation product of 1 mole of an aliphatic polyamine in which two amino groups are primary amino groups directly attached to different aliphatic carbon atoms with from 3 to 10 moles of an aliphatic aldehyde of at least 3 carbon atoms having at least one hydrogen atom on the carbon adjacent to the —CHO group.

2,279,562
UNDERREAMER
Weyman B. Dunlap, Jr., Houston, Tex.
Application April 19, 1940, Serial No. 330,482
5 Claims. (Cl. 255—74)



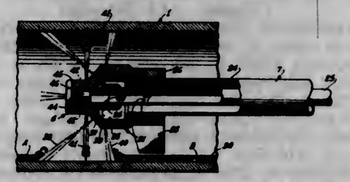
1. An underreamer comprising a cylindrical bucket having side slots, a transverse supporting plate anchored in the top of the bucket and having a vertical slot, plate-like reamers aligned with said side slots and having arcuate grooves, guide studs on the plate in the grooves, the outer margins of the reamers being curved away from the supporting plate, deflectors on the plate arranged to cooperate with the reamers, driving means for rotating the bucket, a bolt working through said vertical slot and forming a pivoted connection between the driving means and reamers whereby downward movement of the reamers relative to the supporting plate will cause co-action between the reamers and deflectors to cause the outward movement of the lower end of the reamers.

2,279,563
WRAP MEASURING APPARATUS
Paul J. Dye, Lyndhurst, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 10, 1941, Serial No. 373,948
13 Claims. (Cl. 73—51)



1. In an apparatus for determining the number of wrappings of a serving on a given length of core which comprises means for supporting an end of a core from which servings have been unwrapped, a counter shaft for supporting the wrapped end of the core, a bodily movable counting mechanism driven by said shaft upon rotation of the core by unwrapping the serving therefrom, means for guiding the counter, and a scale adjacent the guiding means for indicating the amount of movement of the counting mechanism.

2,279,564
APPARATUS FOR FLAME HARDENING TUBULAR STRUCTURES
Frank C. Emery, Los Angeles, and Edwin F. Green, Lynwood, Calif., assignors to Axelson Manufacturing Co., Los Angeles, Calif., a corporation of California
Application October 30, 1939, Serial No. 301,923
8 Claims. (Cl. 266—4)

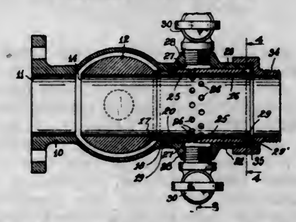


1. In an apparatus for hardening the interior surfaces of bores in machine elements, the combination of: a burner; means for advancing said burner longitudinally through said bore; means on said burner for heating the interior surface of said bore to a temperature in excess of the critical temperature; and means associated with said burner for applying a cooling medium to said element within said bore on opposite sides of said burner to confine the heat to a short cylindrical zone and to quench and to harden the surface immediately after it is heated.

2,279,565
FLUX
James Fletcher, Detroit, Mich., assignor of one-half to Frank Kuhn, as trustee for Airielle C. Kuhn, both of Detroit, Mich.
No Drawing. Application April 21, 1941, Serial No. 389,606
5 Claims. (Cl. 75—65)

1. A flux for use in the melting of non-ferrous metals consisting of a mixture of anhydrous borax and air-slaked lime in the proportions ranging from substantially 1:1 to 1:2 of the two substances respectively.

2,279,566
VALVE
Jordan W. Grant, Portsmouth, Va., and Henry M. Hunt, Wooster, Ohio, assignors to Akron Brass Manufacturing Company, Inc., Wooster, Ohio, a corporation of Ohio
Application April 5, 1941, Serial No. 387,056
7 Claims. (Cl. 277—59)



1. A valve comprising a casing having a bore therethrough, a spherical valve mounted therein, a perforate sleeve in said bore engaging said spherical valve, said casing having a plurality of radial ports therein communicating with said perforate sleeve, a ring interposed between said

sleeve and casing adjacent said ports and means on said sleeve engageable with said ring for sealing said casing with respect to said sleeve.

2,279,567

METHOD OF PRODUCING THIN STRIPS OF MATERIAL ON SUPPORTING SURFACES

Herbert Edward Holman, Hayes, England, assignor to Electric & Musical Industries Limited, Hayes, England, a company of Great Britain

Application October 26, 1938, Serial No. 237,068
In Great Britain November 8, 1937
1 Claim. (Cl. 204—15)

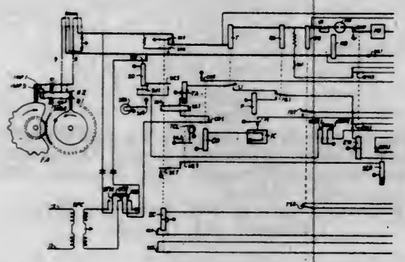
A method of forming a design composed of fine lines of metallic material on a glass surface of a supporting body in accordance with a desired pattern, said method including the steps of coating the surface of the supporting body with a comparatively thin film of cellulose acetate, forming the desired pattern on said film by engraving said film to such a depth as to expose the surface of the supporting body, etching the exposed areas of said body, coating over the engraved layer with the material of which the desired coating is to be formed, immersing the entire supporting body in an acetone bath so as to cause any remaining cellulose acetate to disintegrate thereby breaking the coating of coated material along the edges of the pattern to render thereby the plating outside of the pattern readily removable and to isolate the coated material which is in contact with the supporting body, and removing the plating outside the exposed areas.

2,279,568

ELECTRICAL SIGNALING SYSTEM

Eric Bertram Ireland, Liverpool, and Eric Wyn Jones, Nottingham, England, assignors to Associated Telephone & Telegraph Company, Chicago, Ill., a corporation of Delaware

Application September 16, 1939, Serial No. 295,176
In Great Britain September 17, 1938
11 Claims. (Cl. 177—367)



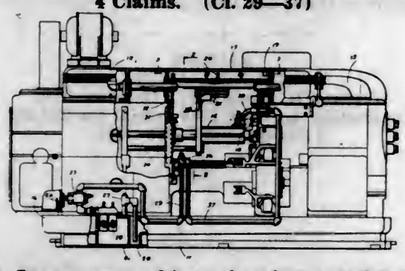
3. In a fire alarm system, a call point and a central station connected together by two conductors, a device at the central station for responding to electrical impulses transmitted from said call point during the sending of an alarm therefrom, said responding device normally connected in a circuit including said two conductors in series and operated responsive to impulses transmitted over said two conductors in series during the sending of an alarm from said call point, and means operated whenever said call point is short-circuited during the sending of an alarm to change the connections of said responding device to said conductors to render it responsive to impulses transmitted over said two conductors in parallel.

2,279,569

HEAT EXCHANGER FOR MACHINE TOOLS

Alfred F. Jelinek and Walter E. Gross, Cleveland, Ohio, assignors to The Cleveland Automatic Machine Company, Cleveland, Ohio, a corporation of Ohio

Application July 20, 1940, Serial No. 346,599
4 Claims. (Cl. 29—37)



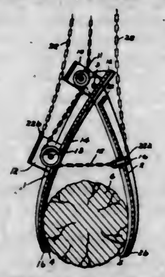
1. In a screw machine, a housing, a work holding spindle therein, a second housing, a tool slide therein disposed in parallel relation with said spindle, a beam uniting said housings and guiding said tool slide, the tool slide housing and beam having passageways therein arranged in fluid communication with each other, a reservoir in the base of said machine, a conduit intermediate said reservoir and the tool slide housing, and a pump connected to said conduit for circulating a fluid through said passageways, whereby the housing and beam are maintained at a uniform temperature.

2,279,570

GRABHOOKS

Jacob Kamppi, Astoria, Oreg.

Application June 6, 1941, Serial No. 396,883
7 Claims. (Cl. 294—112)



1. In load engaging apparatus, a pair of tongs pivotally joined together adjacent one end, the opposed faces of said tong members being slightly curved toward each other and inturned serrated prongs formed at the free extremities of each of said tong members, extending substantially normal to the curved face of each tong member, said prongs being of such length as to be less than the maximum rise of the arc formed by the tong member upon which they are formed.

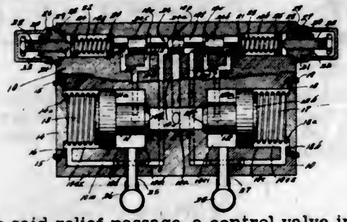
2,279,571

CONTROL DEVICE FOR HYDRAULIC LINES

Garold A. Kane, Minneapolis, Minn., assignor to Northern Pump Company, Minneapolis, Minn., a corporation of Minnesota

Application February 23, 1940, Serial No. 320,392
14 Claims. (Cl. 137—53)

13. A device for controlling the flow of liquid from one line containing liquid under pressure to another line containing liquid under lower pressure comprising a member having a relief passage arranged to be connected with said second mentioned line, a valve closing said relief passage, chambers adjacent said valve adapted to have liquid under pressure therein for closing or opening said valve, a control passage, means for connecting said first mentioned line to both of said chambers including a passage from one of said chambers to said control passage, a passage leading from said control pas-



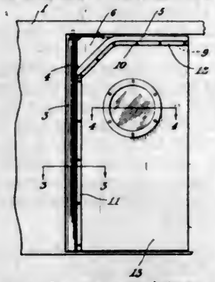
sage to said relief passage, a control valve in said control passage movable upon a predetermined pressure of said liquid for opening said last mentioned passage and closing said second mentioned passage to cause a differential pressure in said chambers for opening said valve, and a third valve closing said relief passage acted on by liquid from said second mentioned line and adapted to be opened when said first mentioned valve is opened.

2,279,572

SWINGING DOOR

Eduard Kann, New York, N. Y.

Application July 9, 1940, Serial No. 344,550
6 Claims. (Cl. 20—16)



1. A swinging door comprising a frame of angular shape and having a side portion and a top portion, and a sheet of flexible material forming the main portion of the door and having an edge secured to each of said frame portions.

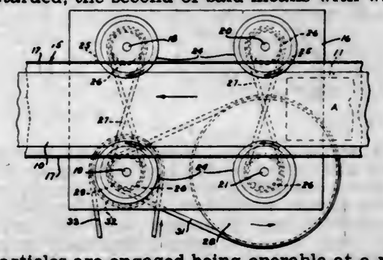
2,279,573

CONVEYER SYSTEM

Edd C. Lang, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application October 10, 1940, Serial No. 360,587
2 Claims. (Cl. 198—34)

1. In a conveyer system, a conveyer moving at a predetermined speed upon which articles placed thereon freely rest during their advance, a plurality of movable means spaced longitudinally along a portion of said conveyer moving in a horizontal plane adapted to operatively engage the articles in their movement therepast, the points of engagement of said movable means with the articles being spaced apart a distance slightly greater than the length of an article, and means for operating said spaced movable means at different speeds, the first of said means with which the articles are engaged being operable at a relatively lower rate of speed than said conveyer so that the movement of the articles is retarded, the second of said means with which



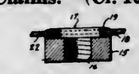
the articles are engaged being operable at a relatively higher rate of speed than said first means and the combined action of said spaced movable means causing a positive separation and a uniform spacing between successive articles initially variously spaced, in end to end contact, or when tending to stick together upon moving past said spaced movable means.

2,279,574

CLINCH NUT AND METHOD OF MAKING

Charles T. Langmaid, Detroit, Mich., assignor to Fabristeel Products, Inc., Detroit, Mich., a corporation of Michigan

Application July 18, 1940, Serial No. 346,221
3 Claims. (Cl. 10—86)



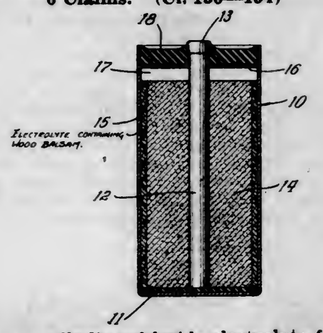
3. The method of forming a clinch-on nut which consists of providing a conventional nut having at least one flat surface, stamping out a comparatively thin piece of metal having an area at least the area of the flat surface of the nut, drawing outwardly the central portion of said thin piece of metal to form a collar having tapered outside walls, and then securing by spot welding the thin piece of metal to the nut surface.

2,279,575

DRY CELL

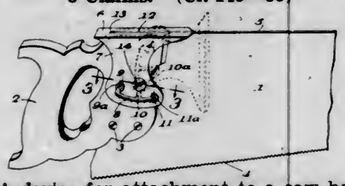
Herbert E. Lawson, Chicago, Ill., assignor to Burgess Battery Company, Chicago, Ill., a corporation of Delaware

Application December 13, 1939, Serial No. 308,923
6 Claims. (Cl. 136—154)



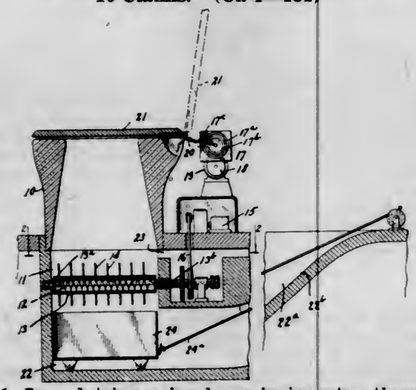
5. A non-alkaline chloride electrolyte for a dry cell containing a wood balsam in suspension therein.

2,279,576
SAW ATTACHMENT
Frank J. Leverone, Malden, Mass.
Application November 4, 1939, Serial No. 302,890
3 Claims. (Cl. 145—35)



1. A device for attachment to a saw having a handle and a blade having a straight upper edge, said device comprising a body and a straight edge member having a transverse bearing portion engageable with said upper edge, said body having a slot, pivot means attaching said body to said saw through said slot so that substantially the entire length of said straight edged member overlies said handle and said slot being shaped to permit said body member to be shifted relative to said pivot means when said portion and said upper edge are in engagement so that said straight edged member is adjustable to a plurality of definite angular positions relative to said blade.

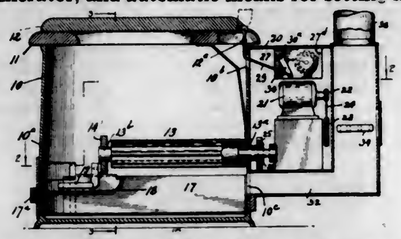
2,279,577
INCINERATOR IN COMBINATION WITH LATRINES OR THE LIKE
Horace G. Martin, Brooklyn, N. Y.
Application May 2, 1941, Serial No. 391,443
10 Claims. (Cl. 4—131)



1. In a latrine a bowl, an incinerator therein including rotary excreta receiving and discharging means comprising a plurality of parallel adjacently disposed members formed with radial ribs, the ribs of each member projecting into the spaces between the ribs of adjacent members to form narrow passages between them and heating means affecting said rotary means so as to cause the burning to ashes of the excreta deposited thereon, means for operating said heating means, means for operating said rotary means and manually actuated means for automatically controlling both said last named means in one operation.

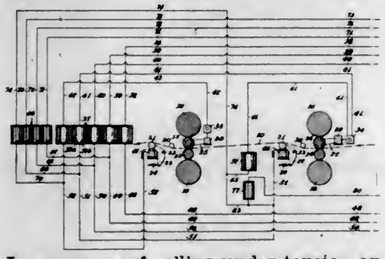
2,279,578
LATRINE
Horace G. Martin, Brooklyn, N. Y.
Application July 10, 1941, Serial No. 401,735
10 Claims. (Cl. 4—131)

1. A portable latrine comprising a receptacle having a toilet seat and lid, an incinerator within said receptacle, a flue leading from said receptacle, a removable ash collector below said incinerator, and automatic means for setting into



operation said incinerator said means being operatively connected to and adapted to be actuated by said lid when the latter is moved into closing position.

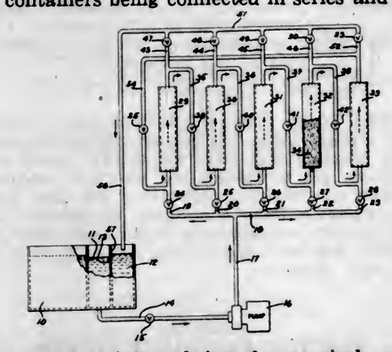
2,279,579
METAL ROLLING
John H. McElhinney, Wheeling, W. Va., assignor to Wheeling Steel Corporation, Wheeling, W. Va., a corporation of Delaware
Application June 5, 1939, Serial No. 277,345
11 Claims. (Cl. 80—60)



1. In a process of rolling under tension an approximately flat strip of a substantially uniform contour from end to end to reduce the thickness thereof, the steps of measuring the relationship of the speed of the strip to the speed of a work roll surface, and controlling the rolling operation in accordance with said measurement to maintain the relationship between said speeds within predetermined limits.

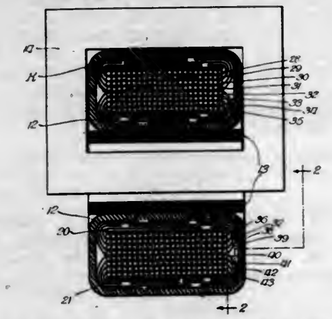
2,279,580
APPARATUS FOR TREATING ARTICLES COATED WITH CONCENTRATED AQUEOUS SOLUTIONS OF GOLD CYANIDE
Robert V. Miner, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 9, 1939, Serial No. 308,398
1 Claim. (Cl. 266—12)

Apparatus for treating articles coated with a concentrated aqueous solution of gold cyanide such as is employed in a gold plating bath to remove said solution from the article surfaces and recover the gold from said solution, an initial wash tank containing a dilute aqueous solution of gold cyanide for receiving the articles coated with the concentrated solution and flushing the concentrated solution from the articles, said dilute solution having a maximum gold content of .013 ounce per gallon, a second wash tank containing final wash water for flushing from the articles the dilute solution withdrawn on the articles from the initial wash tank, said final wash water having a maximum gold content of .003 ounce per gallon, means for withdrawing dilute solution from the initial wash tank at a uniform rate, means for supplying final wash water from the second tank to the initial tank at the same rate at which dilute solution is withdrawn from the initial tank to maintain a constant quantity of solution in the initial tank, a series of containers each having zinc therein, the containers being connected in series and the



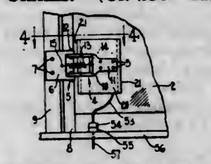
zinc in said containers being of successively graduated age, a system of pipes interconnecting the two wash tanks and the series of containers, and a pump for circulating all of the dilute solution withdrawn from the initial wash tank through the series of containers beginning with any selected container and finally delivering all of the treated solution to the second wash tank to maintain a uniform supply of final wash water in the second tank.

2,279,581
ELECTRIC COIL
Carl Niemann, Erlangen, Germany, assignor to the firm Siemens-Reiniger-Werke Aktiengesellschaft, Berlin, Germany
Application July 1, 1938, Serial No. 216,979
In Germany July 3, 1937
2 Claims. (Cl. 175—362)



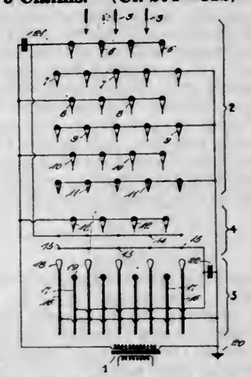
1. In a transformer, a high tension coil winding comprising a plurality of layers, each layer comprising a plurality of turns, sheets of insulating material disposed between said layers and projecting at the ends of the winding, each sheet having a long projecting portion at one end of the winding and a shorter projecting portion at the other end and the sheets being arranged with the long projecting portions of each sheet alternating with the short projecting portions of adjacent sheets at each end of the winding, said projecting portions being divided axially of the winding to form separate wings, the lines of division being angularly displaced in successive sheets, the wings of a plurality of said sheets being folded outwardly around the ends of the winding and back along the outer surface of the outside layer until they substantially meet, the wings of another plurality of said sheets being similarly folded inwardly around the end of the winding and back along the inner surface of the inside layer until they substantially meet, the junctions between the ends of the wings of each sheet as well as the axial divisions between such wings being covered by the wings of an adjacent sheet, and means for securing said wings in folded position.

2,279,582
CONTROL DEVICE
Philip S. Russel, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan
Original application May 14, 1935, Serial No. 21,353. Divided and this application June 8, 1938, Serial No. 212,545
9 Claims. (Cl. 236—44)



1. A control device for arrangement with the inside surface of a window pane or other heat transmitting room wall surface comprising an element responsive to an air condition at said inside surface, and a movably mounted supporting means carrying said element and operable in one position to hold said element in close proximity to said inside surface and operable in another position to hold said element out of such proximity and in spaced relation to said inside surface.

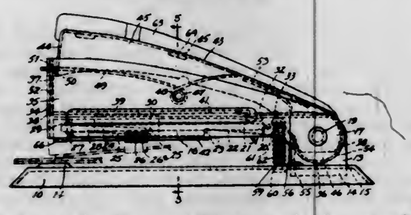
2,279,583
CHEMICAL SYNTHESIS WITH ELECTRIC PRECIPITATION
Games Slayter, Newark, Ohio, assignor to Slayter Electronic Corporation, a corporation of Ohio
Application April 6, 1939, Serial No. 266,436
5 Claims. (Cl. 204—312)



3. An electrical system for chemical synthesis comprising, in combination, a source of alternating current, electric discharge and target electrodes connected to opposite terminals of said source and cooperative to produce a catalytic

electric discharge in an atmosphere of reactant gases; electric discharge and target electrodes constituting a voltage rectifier disposed in said atmosphere of reactant gases and connected with said source of alternating current, static control electrodes in said rectifier, a bias connection to said control electrodes from the first said discharge electrodes at a potential resulting from rectification in the operation of the first said discharge and target electrodes, and a condenser with a difference of potential equal to the bias voltage connected between the alternating current source at the connection to the second said discharge electrodes and said bias connection; electric precipitation electrodes comprising alternately connected sets of plate elements, and means including said source of alternating current and said voltage rectifier for energizing said sets of plate elements in opposite polarities whereby said electric precipitation electrodes are operative to condition the products of reaction of said gases for conversion from a gaseous state.

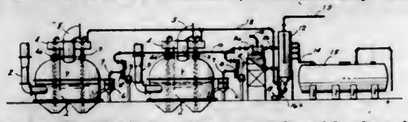
2,279,584
STAPLING MACHINE
Max Vogel, Bridgeport, Conn., assignor to Neva-Clog Products, Inc., Bridgeport, Conn., a corporation of Connecticut
Application October 4, 1938, Serial No. 233,180
15 Claims. (Cl. 1—3)



1. In a stapling machine, a staple carrying rail adapted to have a staple strip of U-shape staples mounted thereon, a housing member movably mounted with respect to said staple rail for movement between closed and open positions including a front wall rigidly fixed to said housing member adapted to laterally enclose the front end of the rail in spaced relation to provide a staple driving passage, said rail being exposed at its front end in the open position of the housing member, a staple strip pusher slidable on said rail, spring means exerting a forward force on said pusher, pusher locking abutment means carried by said rail, locking means carried by said pusher movable into engagement with said locking abutment means for securing said pusher against forward movement in the open position of said housing member, and means on said housing adapted to move said locking means into inoperative position relatively to said locking abutment means in the closed position of said housing.

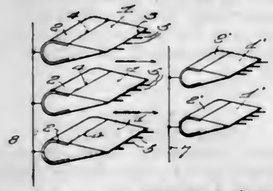
2,279,585
METHOD FOR RECOVERING PYRIDINE
Max D. Wald, University Heights, Ohio, and Frank A. Karnatz, Indianapolis, Ind., assignors, by direct and mesne assignments, to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey
Application November 8, 1939, Serial No. 303,396
3 Claims. (Cl. 260—290)

1. The method of recovering pyridine which includes the steps of continuously passing coke oven gas containing pyridine through a solution of dilute sulfuric acid in a chamber, maintaining the free acid concentration of said liquid substantially constant, maintaining the pyridine concentration of said liquid below about 3%, continuously flowing liquid containing pyridine from a point below the surface of liquid in said chamber upwardly into and below the surface of the liquid in a second chamber, continuously with-



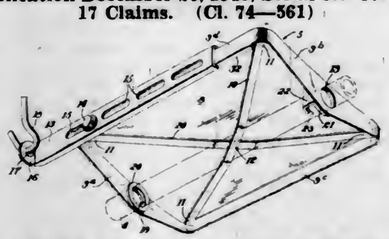
drawing liquid from the second said chamber from a point above the bottom thereof, continuously treating the thus withdrawn liquid with ammonia gas to release the pyridine contained therein, continuously separating the thus liberated pyridine from the liquid by gravity, and continuously returning the liquid from which the pyridine has been so removed to the liquid in the first said chamber.

2,279,586
ELECTRIC DISCHARGE SYSTEM
Willard H. Bennett, Newark, Ohio, assignor to Slayter Electronic Corporation, a corporation of Ohio
Application February 4, 1939, Serial No. 254,724
21 Claims. (Cl. 230—69)



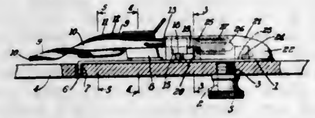
1. In an electric discharge system, a stream-lined electric discharge electrode and a coacting stream-lined target electrode, said discharge electrode comprising a mass of semi-conductive material stream-lined in the direction of said target electrode, a multiplicity of spaced wire like members embedded in said discharge electrode with the outer ends thereof directed toward said target electrode, and a metallic support for said discharge electrode extending throughout the length thereof.

2,279,587
TREADLE
Daniel H. Chason, Elizabeth, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application December 26, 1940, Serial No. 371,706
17 Claims. (Cl. 74—561)



1. A sheet-metal treadle having a substantially flat platform, a downturned marginal flange extending thereabout, and crossed truss-bars extending diagonally across the bottom of said platform and being secured to the under side thereof.

2,279,588
HEMMING ATTACHMENT FOR SEWING MACHINES
John P. Enos, Elizabeth, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application March 6, 1940, Serial No. 322,434
15 Claims. (Cl. 112—141)

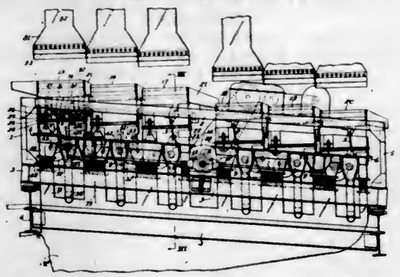


1. A hemming attachment for sewing machines comprising in combination, a base-plate, a longitudinally spiraled primary scroll-section secured to said base-plate, a longitudinally spiraled secondary scroll-section cooperating with said primary scroll-section to define between them a fabric-receiving passageway, a shank to which said secondary scroll-section is fixed, and means for supporting said shank for circular adjustment about the longitudinal axis of said shank.

2,279,589
CHEMICAL HEATING COMPOSITION
Samuel Grant, Chicago, Ill., assignor, by mesne assignments, to Products Development, Inc., Chicago, Ill., a corporation of Illinois
No Drawing. Application January 2, 1941, Serial No. 372,946
8 Claims. (Cl. 44—3)

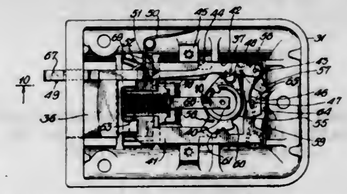
1. An exothermic composition for use in imparting a permanent wave to a preformed tress of hair upon the addition thereto of moisture comprising a stable mixture of a comminuted amphoteric metal, from the group between the alkaline earth metals and hydrogen in the electromotive force series of metals, a nitrate, an alkaline earth metal hydrate, a salt which will produce a basic ion in solution, and a filler material.

2,279,590
APPARATUS FOR SEPARATING PARTICULATE MATERIALS
Mack E. Haworth, Pittsburgh, Pa., assignor to Roberts and Schaefer Company, Chicago, Ill., a corporation of Illinois
Application February 6, 1939, Serial No. 254,750
10 Claims. (Cl. 209—466)



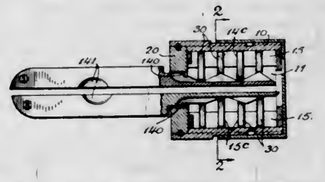
1. Apparatus for cleaning particulate material, comprising a series of longitudinally inclined flat foraminous decks, each provided with a bottom draw adjacent to but spaced from its lower end, the short deck portion between said draw and lower end lying in a plane intersecting the plane of the main portion of the deck at an obtuse angle, means mounted on said short deck portion for retarding movement of the lower bed of particulate matter thereon, a barrier member extending transversely of the delivery end of said short deck portion, a rigidly mounted elevated frame, a rigid frame disposed below said elevated frame and movably suspended therefrom, means on said suspended frame connected with said decks for independently adjusting the pitch of each deck, means for actuating said suspended frame to reciprocate the decks longitudinally, and means for directing fluid under pressure upwardly through the decks and draws.

2,279,591
NIGHT LATCH
Frederic K. Heyer, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application August 10, 1939, Serial No. 289,339
16 Claims. (Cl. 292—335)



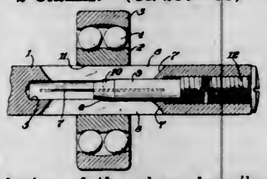
2. A latch for a hinged closure comprising a spring pressed latch bolt, a casing, manually operated means for retracting said latch bolt, a spring pressed lever supported on said latch bolt, means on said casing engaged by said lever in the retracted position of said latch bolt for maintaining said latch bolt retracted, an auxiliary bolt in said casing normally spring projected and adapted to be retracted when contacting a strike, and means whereby said auxiliary bolt when so retracted releases said lever from said casing to release said latch bolt for projection.

2,279,592
LOCK
Harold Machinist, Long Island City, N. Y., assignor to Dudley Lock Corporation, Chicago, Ill., a corporation of Illinois
Application February 2, 1938, Serial No. 188,327
8 Claims. (Cl. 70—394)



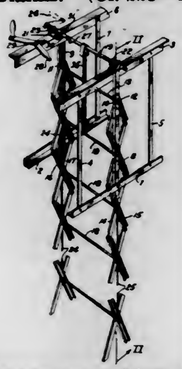
1. As a new article of manufacture, a lock servicing tool including tumbler camming elements having effective tumbler camming influence of a magnitude to make available the camming influence of said elements along intermediate points on said elements formed as a quarter segment of a full key having ward engaging portions and having wiggle clearance when used in a lock with and in respect of the remaining segments.

2,279,593
SECURING MEANS
Walter Myers, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application August 30, 1939, Serial No. 292,562
2 Claims. (Cl. 287—53)



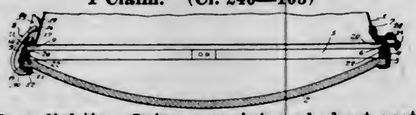
1. In a device of the class described, a shaft having a stepped bore, rigid end sections and a resilient intermediate section, a ball bearing unit including an inner race mounted snugly upon the resilient section of said shaft, and means located in said bore for expanding the resilient intermediate section of said shaft into locking engagement with the inner race of said bearing unit, said means contacting said resilient section at the edge of said step whereby the contact is in the form of a line as distinct from a surface, the said line of contact being in the form of a circle.

2,279,594
FIRE ESCAPE
Harold N. Patterson, San Francisco, Calif.
Application October 2, 1940, Serial No. 359,366
3 Claims. (Cl. 228—19.2)



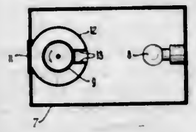
1. A fire escape comprising opposed vertical channel guides; a transverse shaft extending across the top ends of said guides; a collapsible ladder having its top rung extending through said guides and its succeeding rungs slidably guided in the channels of said guides; a hoisting cable attached to the lower portion of said ladder and wound around said shaft.

2,279,595
LIGHTING FIXTURE
Paul D. Phillips, Elmhurst, Ill., assignor to Benjamin Electric Mfg. Company, Des Plaines, Ill., a corporation of Illinois
Application October 4, 1939, Serial No. 297,790
1 Claim. (Cl. 240—103)



In a lighting fixture, an integral sheet metal reflector formed at its rim to provide a horizontal outwardly extending flange of material width, said flange terminating in a depending flange and an upwardly extending flange, said last mentioned flanges being constructed by forming the material downwardly and then upwardly snugly against itself to form a thin-walled cylindrical rim reinforcement, an annular cylindrical bezel telescoping over said depending flange and having an inturned flange at its lower edge, a lens supported on said bezel flange, a resilient ring gasket between said lens and said depending flange, a gasket retaining shoulder in said bezel, a resilient ring telescoped into said gasket and tending to expand said gasket below said shoulder, and a toggle latch hinged on said bezel flange and having an intermediate pivot engaged behind the said upwardly extending rim flange and having a locking arm resting against said reflector when said toggle is latched.

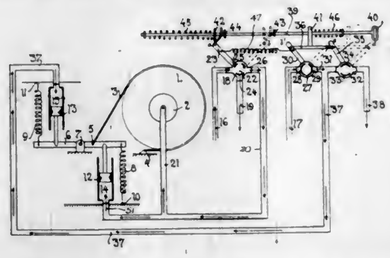
2,279,596
LANTERN
Adriaan J. Schipper, Kapelle, near Goes, Zeeland, Netherlands
Application February 17, 1938, Serial No. 191,004
In the Netherlands December 29, 1937
4 Claims. (Cl. 240—20)



1. A lantern comprising an opaque casing having a light transmitting opening therein, a source of light in said casing, a rotatable cylinder having a throughout uniform luminescent surface continuously activated by said light source, opaque screen members between said cylinder and said light source spaced apart to provide an opening whereby a beam of light from said light source is allowed to pass said last mentioned opening onto equal areas of said movable luminescent cylinder limited by said screen members while preventing the outward passing of direct light from said casing, means to move said cylinder whereby equally luminescent limited areas successively pass said light transmitting opening and create a uniform constant uninterrupted outside illumination of invariable light intensity.

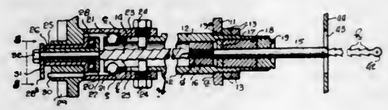
2,279,597
CONTROLLING MEANS FOR HOISTS AND WINCHES
Johan Fredrik Selmer, Oslo, Norway
Application August 8, 1939, Serial No. 289,035
In Norway July 14, 1939
5 Claims. (Cl. 192—12)

1. In a winch having a power driven hoisting drum, a clutch located between said drum and the power means and a fluid clutch actuator, the combination comprising a braking mechanism on said drum, a fluid operated release actuator for said braking mechanism, a spring operated brake applying actuator for said braking mechanism and means controlling said clutch actuator, said release actuator comprising a conduit from a source of operating fluid, a three-way valve connected to said conduit, a second conduit connected to said valve and leading to said clutch actuator and said release actuator, a third conduit connected to said three-way valve so that said clutch actuator and said release actuator may be connected respectively by said three-way valve to either said source of operating fluid or to the atmosphere, a fourth conduit connected to a source of operating fluid, two mechanically interconnecting oppositely acting valves arranged in said conduit, a fifth conduit leading



from said valves to the atmosphere, a sixth conduit connected to said fourth conduit intermediate said two oppositely acting valves leading to said brake release actuator so that said brake release actuator is controlled proportionately to the position of the two valves at any time.

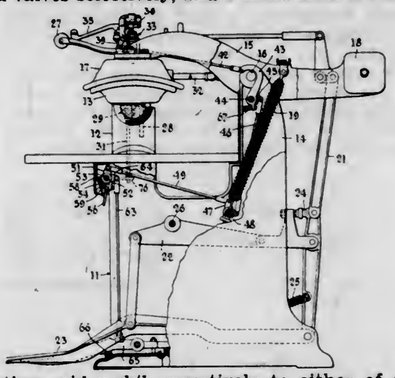
2,279,598
COTTON PICKING MACHINE
William Neal Smith, Dallas, Tex.
Application November 12, 1940, Serial No. 365,289
6 Claims. (Cl. 56—41)



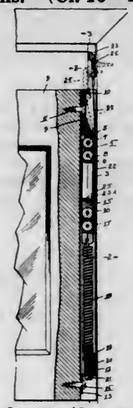
1. In a cotton picking machine of the type having opposed reciprocating banks of picking needles, a needle operating means comprising a helically grooved shank for said needle, a sleeve through which said needle shank reciprocates, a needle actuating arm to which said shank is connected, a collar arranged for limited sliding movement on said sleeve, means to effect movement of said collar, said collar having diametrically opposed ball recesses therein, balls in said recesses adapted upon movement of said collar in one direction to engage the grooves of said shank to rotate said shank and needle and means to effect reverse movement of said collar upon reverse movement of said needle to retract said balls from said grooves whereby they will be ineffectual to rotate said needle.

2,279,599
GARMENT PRESSING MACHINE
William Strobridge, Syracuse, N. Y., assignor to United States Hoffman Machinery Corporation, New York, N. Y., a corporation of Delaware
Application October 16, 1939, Serial No. 299,773
8 Claims. (Cl. 38—15)

1. In a garment press, a pair of relatively movable pressing members; steam spray means connected to both of said members; a spray control valve on each of said members and connected to said spray means; and means comprising a single pedal for causing operation of either of said valves selectively, and a hand lever for connecting said pedal operatively to either of said valves to perform the selection.



2,279,600
SASH BALANCE
Dewitt Tappan, Rochester, N. Y., assignor to The Caldwell Manufacturing Co., Rochester, N. Y., a corporation of New York
Application March 30, 1940, Serial No. 326,983
7 Claims. (Cl. 16—197)

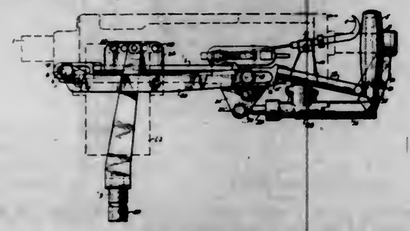


1. In a sash balance the combination of a mounting member, a standing block supported on said mounting member, a pulley carried by said standing block, a running block movable intermediate of said mounting member, a pulley carried by said running block, a strap attached to one end of said running block, a tension spring attached to the other end of said running block, said spring being anchored to said mounting member and said strap passing from said running block over the pulley of each of the blocks in overlapping planes with the pulleys and portions of the strap in frictional contact with each other to frictionally control the movement of said running block during the expansion and contraction of said tension spring by means of said strap.

2,279,601
FRAME FOR MACHINE GUNS
John C. Trotter, Buffalo, N. Y., assignor to Bell Aircraft Corporation, Buffalo, N. Y., a corporation of New York
Application September 30, 1939, Serial No. 297,356
7 Claims. (Cl. 89—37)

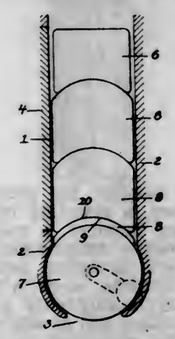
1. In a device for minimizing recoil in a ma-

chine gun for use in aircraft, a cradle, said cradle comprising a pair of longitudinally extending parallel tubes, operating handles for the machine gun integrally formed with the tubes, slide tracks carried by the front and rear ends of the tubes, blocks slidable in the tracks, securing devices for attaching the front and rear sections of the gun to the blocks so that the gun may have a fore and aft movement in the



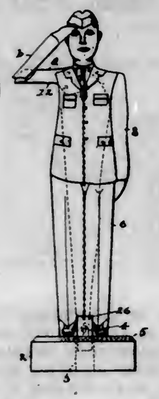
cradle, a depending bracket secured to the rear section of the gun, a hydraulic shock unit positioned intermediate the tubes and located between the bracket and the handles, the piston rod of the unit being connected with the bracket and the cylinder being connected to the operating handles whereby vibration of the gun during firing will be absorbed, and a yoke for supporting the cradle for universal movement.

2,279,602
METHOD OF DISPENSING SOAP
Gordon D. Voorhis, Rhinebeck, N. Y., assignor to Voorhis-Tiebout Company, Inc., Rhinebeck, N. Y., a corporation of New York
Application August 20, 1940, Serial No. 353,369
1 Claim. (Cl. 146—219)



In dispensing soap and other substances, the method of reducing successive blocks of block assemblies of such substances to particles of uniform size, which consists first, in giving the meeting end surfaces of adjoining blocks of an assembly counterpart formations which correspond substantially to concavo-convex surfaces of cylinder segments and conform substantially to the arcuate cut made in the blocks in the reducing operation; second, in superimposing the blocks to form, in effect, a continuous block and moving the assembled blocks towards the reducing means; and third, in effecting a cutting action by the reducing means upon the lowermost block of the assembly along a path that substantially follows the curved meeting surfaces of the blocks.

2,279,603
MANUAL MECHANICAL IMAGE
Enloe P. Wallis, St. Petersburg, Fla.
Application April 30, 1941, Serial No. 391,172
2 Claims. (Cl. 46—119)



1. In a device of the character described, comprising a body member, a movable arm including an upper arm connected to said body for lateral swinging movement thereof, a lower arm pivoted with the upper arm, actuating means therefor embodying a link connection between said body and the upper and lower arm pivoting member, whereby as the upper arm is laterally raised and lowered the lower arm is simultaneously subjected to a twisting action moving same to and from a salute posture as to the image, and operative means connected to said actuating means.

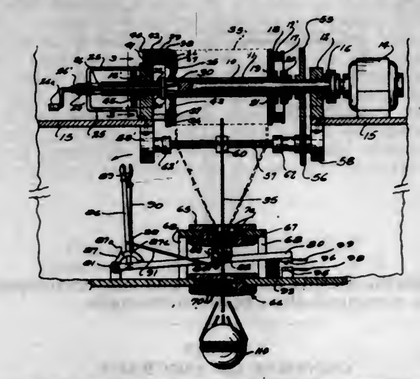
2,279,604
PROCESS FOR PRODUCING COPYING PAPER
Rudolf Wälti, Basel, Switzerland
No Drawing. Application September 7, 1937, Serial No. 162,764. In Germany September 16, 1936
1 Claim. (Cl. 91—68)

A process for producing copying paper comprising coating one side of said paper with an aqueous dispersion of latex and then coating the other side of said paper with an aqueous dispersion of latex and a coloring substance free from a precipitating action upon said latex.

2,279,605
ALTITUDE FEELER FOR AIRCRAFT
Charles H. Welsh, Roseburg, Oreg.
Application November 25, 1938, Serial No. 242,309
3 Claims. (Cl. 200—52)

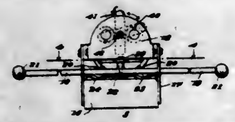
1. In a device of the character described, a circuit closing switch comprising a pivotally mounted lever, a circuit contact member on the lever, a stationary contact member, yieldable means acting against the lever to normally retain the said contacts disengaged from each other, a clutch device on the lever, a suspended cable passing therethrough, means for actuating the clutch for gripping the cable and means on the suspended cable to contact an object for the actuation of the lever through the mediacy of

the cable to effect the engagement of the con-



tacts for closing an electric circuit therethrough.

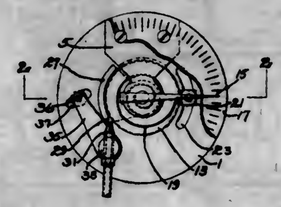
2,279,606
DIRECTION SIGNAL
Byron E. White, Brattleboro, Vt.
Application November 14, 1938, Serial No. 240,405
1 Claim. (Cl. 200—6)



In combination with a switch housing of the character described, a plurality of contacts carried by the housing, a switch arm pivotally carried by the housing and having means for selectively engaging the contacts, said switch arm having a projecting slotted end extending beyond the housing, an insulated bottom plate, side plates suspending the bottom plate from the housing, an operating rod slidably mounted through the side plates and having knobbed ends projecting beyond the side plates, a spring detent plate carried by said insulated bottom plate and having a plurality of depressed sockets arranged in spaced relation throughout the length of the spring detent plate, a plurality of upwardly bent portions formed within the length of said spring detent plate and contacting the under face of said operating rod at spaced intervals within the switch housing for bracing the rod and holding the same against vibration, means for pivotally and slidably connecting said operating rod to the slotted end of said switch arm, and a knob carried by said operating rod and frictionally contacting the spring detent plate and also adapted to fit in the sockets formed in the plate for selectively holding the operating rod in a selected position and consequently holding the switch arm in selective contact with the contacts carried by the housing.

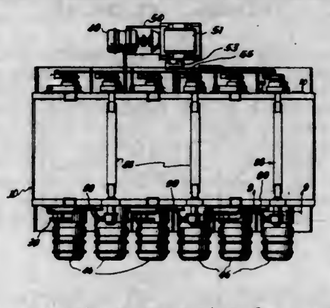
2,279,607
FLUID METER
Morris C. White, San Francisco, Frank C. Sutliffe, Mill Valley, and Roy Ashley, Almonte, Calif.; said Sutliffe and said Ashley assignors to said White
Application October 9, 1939, Serial No. 298,530
5 Claims. (Cl. 73—228)

1. In a fluid gauge of the bridled turbine type, comprising a spring controlled rotor, the combination with said rotor of a jet for connection to the fluid source to be measured, a Venturi throat cooperating with said jet to introduce sec-



ondary fluid into the flow therefrom, and means for directing said flow against said rotor to cause a turning moment thereof.

2,279,608
BRUSHING APPARATUS
Frank J. Wood, Riverside, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application March 31, 1938, Serial No. 199,306
5 Claims. (Cl. 15—77)

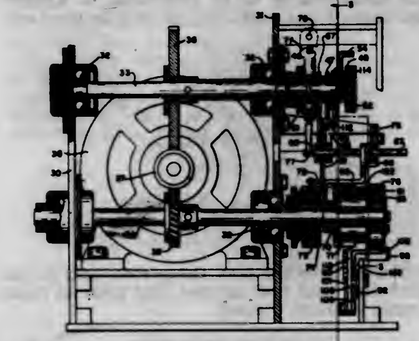


1. In a brushing apparatus for continuous strips of sheet metal, a rotatable wire brush, a frame including a pair of parallel spaced side frame members having aligned openings therein forming a support for said brush and permitting insertion or removal of said brush in an endwise direction, a shaft for said brush, a bearing on said shaft adjacent one end of said brush, another bearing on said shaft adjacent the opposite end of said brush, a pair of spaced apart guide members extending between said side frame members, adjacent said openings and having communication with said openings, said guide members forming a slidable supporting and guiding means for one of said bearing members to support said bearing member and an end of said brush between said side frame members during endwise movement into or out of said frame, to prevent damage to said brush during insertion or removal from said frame.

2,279,609
PRINTING TELEGRAPH APPARATUS
Walter J. Zenner, Des Plaines, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application May 22, 1936, Serial No. 81,166
37 Claims. (Cl. 178—34)

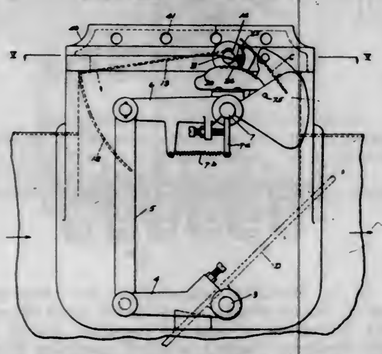
1. In a printing telegraph receiver, a type wheel, means for rotating the type wheel, a ribbed drum for controlling the rotation of the type wheel, a pawl for controlling the drum, sig-

nal controlled means for oscillating the pawl, and



means for shifting the pawl longitudinally of the drum.

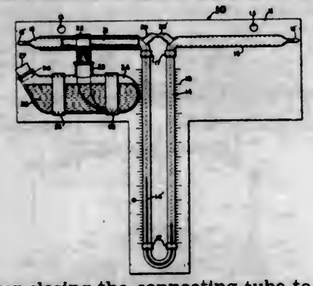
2,279,610
FURNACE DAMPER WITH MINIMUM DRAFT CONTROL
Clayton G. Anderson, Portland, Oreg.
Application July 2, 1940, Serial No. 343,621
6 Claims. (Cl. 236—45)



6. In draft control apparatus, means limiting the action of such apparatus to maintain minimum draft, comprising a movable draft responsive plate sensitive to atmosphere pressure on one side and draft pressure on the other side, a damper, a locking means for said damper, control apparatus and transmissions between said movable member and said locking means effective to operate said locking means when the plate moves in response to draft having reached a predetermined minimum value by reason of partial closure of the damper.

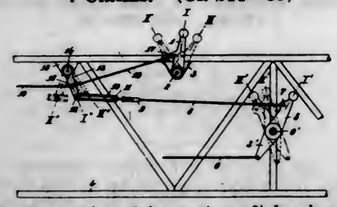
2,279,611
METHOD OF MAKING HYGROMETERS
George E. Barnhart, Pasadena, Calif.
Application October 31, 1939, Serial No. 302,147
2 Claims. (Cl. 73—338)

1. The method of making an instrument of the class described comprising forming a U-tube having opposed aligned bulbs with each bulb communicating with one leg of the U-tube, providing a connecting tube connecting the bulbs, placing an indicating fluid in a portion of the U-tube below the connecting tube, passing gas through the bulbs and connecting tube to produce an aspirator effect on the air in the legs of the U-tube, sealing the ends of the bulbs allowing the liquid columns in the U-tube to balance and



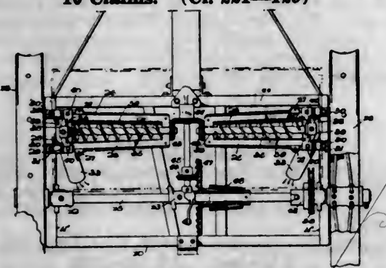
thereafter closing the connecting tube to thereby close communication between the bulbs.

2,279,612
CONTROL OF AIRCRAFT
Josef Blass and Wilhelm Langguth, Brandenburg, Havel, Germany, assignors to Arado Flugzeugwerke Gesellschaft mit beschrankter Haftung, Brandenburg, Havel, Germany
Application November 26, 1938, Serial No. 242,617
In Germany December 7, 1937
7 Claims. (Cl. 244—83)



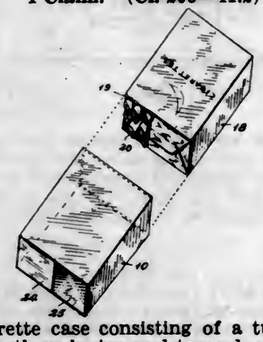
1. In an engine driven aircraft having a movable control surface as an aid in landing, and a throttle lever; a double armed lever, a rod connected to one arm of said double armed lever and leading to said landing control surface to actuate the same, means operatively connecting said levers, said means comprising a rod connected at one end to the other arm of said double armed lever, and a lost motion mechanism connected to said rod, whereby movement of the throttle lever when accelerating after an attempted landing and when accelerating to take off results in retracting said control surface while normal movement of the throttle lever when the control surface is fully retracted is without influence on said control surface.

2,279,613
FERTILIZER DISTRIBUTOR
John Blue, Laurinburg, N. C.
Application November 7, 1939, Serial No. 303,265
10 Claims. (Cl. 221—129)



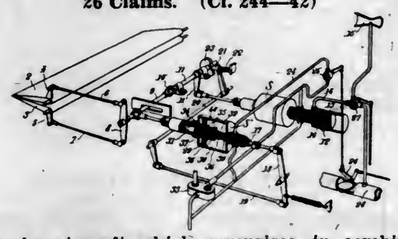
1. In a fertilizer distributor, a frame, a hopper mounted on said frame and extending transversely thereof, said hopper having a central bridge dividing the lower portion of the hopper into a pair of chambers, discharge spouts communicating with said chambers, a pair of identical and interchangeable conveyor elements mounted in said chambers, with the inner end of each element journaled in a wall of said bridge, and transmission means for said conveyor elements positioned beneath said bridge and operatively connecting the inner ends of said elements for rotating said elements in opposite directions.

2,279,614
CIGARETTE PACKAGE CASE
Frederick W. Bryant, Montclair, N. J.
Application October 21, 1938, Serial No. 236,348
1 Claim. (Cl. 206—41.2)



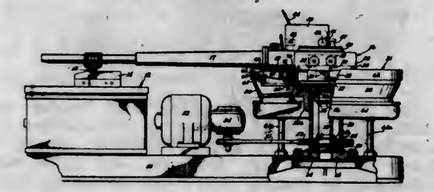
A cigarette case consisting of a tubular body open at both ends, tapered toward one end constructed and adapted to receive freely in its larger end a standard cigarette pack but of materially less transverse dimension in at least one direction than such pack at its smaller end, a stop plate fixed on the case and extending across the smaller end of the case so as to close the space between the front and back walls from one side wall to a distance, stopping short of the opposite side wall a distance to form a finger-receiving opening, whereby the finger of the user may be pushed through the opening against a pack in the case to eject cigarettes from the pack when open at the same side on the distant end, and whereby such pack may be withdrawn, reversed and inserted so that said plate will close the open side of the pack.

2,279,615
AIRCRAFT
Ettore Bugatti, Paris, France
Application May 3, 1939, Serial No. 271,564
In Luxemburg May 6, 1938
26 Claims. (Cl. 244—42)



1. An aircraft which comprises, in combination, at least one wing, at least two flaps both pivoted to said wing in such manner as to vary the lift of said wing when both pivoted together and to vary the drag when pivoted with respect to each other, means operative in accordance with the speed of said aircraft along its path of travel for simultaneously pivoting both of said flaps as a whole with respect to said wing, distinct means for pivoting said flaps with respect to each other, and means for interconnecting said two above mentioned means, the second mentioned means being adapted to act only when said speed exceeds a given upper limit value or is below a given lower limit value.

2,279,616
WORK HOLDER FOR FACING MACHINES
Harry H. Canterbury, Whittier, Calif.
Application December 7, 1938, Serial No. 244,411
8 Claims. (Cl. 90—59)



1. A work holder for holding blanks during movement relative to a cutting tool adapted to cut faces on the blanks, comprising an annular rotary drum having an inner flange and mounted to rotate about a vertical axis; blank mounting means including supporting means adjacent the inner flange for the inner end of a plurality of blanks arranged radially of the drum, and supporting means adjacent the periphery of the drum for the outer ends of all the blanks; and means permitting axial movement of all blank mounting means to position all the blanks axially of the drum relative to the cutting tool.

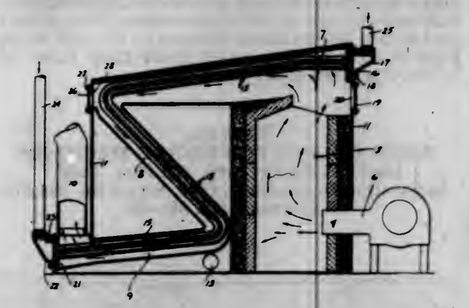
2,279,617
METALLURGICAL FLUX AND METHOD OF USING THE SAME
Lewis Willard Chantler, Charles Town, W. Va., assignor to The Standard Lime and Stone Company, Baltimore, Md., a corporation of Maryland
No Drawing. Application July 10, 1940, Serial No. 344,827
13 Claims. (Cl. 75—55)

13. In the basic process of producing steel, the step consisting of the addition to the supernatant slag on the molten bath in a furnace, of a metallurgical flux in the form of discrete compacted bodies comprising a lime base and a minor portion of an explosive substance which on being subjected to the heat of the furnace reacts with explosive violence to disrupt the body and scatter the lime base in finely divided form over the surface of the slag.

2,279,618
WATER TUBE BOILER
Joseph L. Chedister and Thomas J. Engel, St. Paul, Minn.
Application May 27, 1940, Serial No. 337,388
2 Claims. (Cl. 122—356)

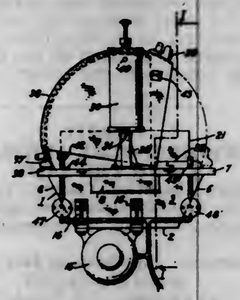
1. In a water tube boiler, a combustion chamber having a flame discharge passage in its upper portion, a tortuous flame duct leading continuously downward from the flame discharge passage of said combustion chamber, said flame duct, at its extreme lower end, having a flue outlet connection for the final discharge of the products of com-

bustion, a water inlet header at the lower end of said flame duct, a water outlet header at the upper end of said flame duct, and tortuous water tubes extended through said flame duct in a direction continuously downward from said water



outlet header to said water inlet header, said flame duct being of decreasing cross-section in a direction from its upper receiving toward its lower flame-delivery end, and said tubes being arranged to closely follow the overlying upper walls of said flame duct.

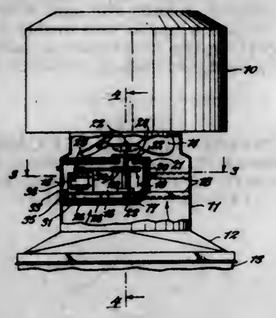
2,279,619
DISH WASHING MACHINE
Herbert H. Fisher, San Francisco, Calif.
Application September 3, 1940, Serial No. 355,117
4 Claims. (Cl. 141—9)



1. A dish washing machine having a tray with water distributing means therein; a motor actuating said distributing means; a pair of telescoping doors pivoted on a common horizontal axis on said tray; and means actuated by said doors for automatically stopping said motor when either of said doors is opened.

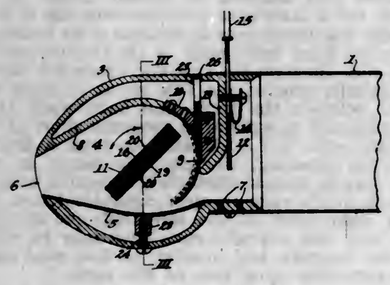
2,279,620
VENTILATOR
William F. Hirschman, Buffalo, N. Y., assignor to W. F. Hirschman Co., Inc., Buffalo, N. Y., a corporation of New York
Application November 2, 1938, Serial No. 238,433
9 Claims. (Cl. 230—117)

1. An air exhausting unit for a ventilator including a housing which is supported horizontally in a vertical flue and which is formed with an air inlet opening in an end wall and an air outlet opening in a top wall, a fan located in said flue above said housing for withdrawing air from the space with which the flue communicates, a supporting frame in said housing, a motor mounted on said frame adjacent said air inlet opening, an entrance to said housing from the exterior of said flue through which access may be had to said motor, a vertical shaft driven by said motor and in turn driving said fan, said shaft being co-axial with said flue and extending



through the air outlet opening and a bearing mounted on said frame below the outlet opening in which the lower end of said shaft is rotatably supported, said fan also inducing a flow of air through the housing to cool said motor.

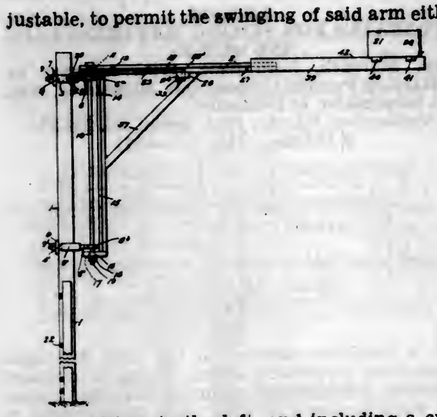
2,279,621
TOOL FOR APPLYING GRANULAR MATERIAL
Herbert W. Hudson, Columbus, Ohio
Application November 25, 1938, Serial No. 242,148
7 Claims. (Cl. 91—44)



1. A device of the character described comprising an elongated magazine for receiving granular material, said magazine serving as a handle for the device, a chamber provided at one end of said magazine, said chamber being provided with an entrance from said magazine and an outlet to the exterior, a motor driven impeller disposed in said chamber between said outlet and said entrance, and a guide wall plate adjustable relatively to the impeller to regulate the size of the space between the impeller and plate through which the granular material is fed, and means for adjusting said plate.

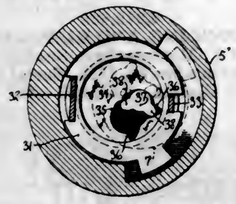
2,279,622
MAILBOX OR OTHER SUPPORT
Frank P. Hurd, Laurel, Md.
Application September 25, 1939, Serial No. 296,513
5 Claims. (Cl. 248—145)

1. In a device of the nature described a telescopic box supporting arm, said arm being pivotally mounted, and means for holding the arm against pivotal movement, said means being adjustable, to permit the swinging of said arm either



to the right or to the left, and including a cross arm on said first arm.

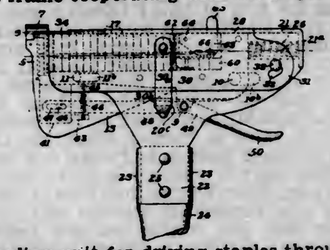
2,279,623
LOCK SWITCH
Edward N. Jacobi, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Original application December 11, 1939, Serial No. 308,664. Divided and this application February 8, 1941, Serial No. 377,985
8 Claims. (Cl. 200—44)



7. In an electric switch: a rotary contactor; a driver for the contactor comprising, an insulated member nonrotatably connected with the contactor to move in unison therewith, and a substantially cup-shaped metal stamping engaging said insulated member and having means thereon to provide a nonrotatable driving connection between the stamping and the insulated member, said cup-shaped stamping having an aperture in its end wall shaped to provide abutments eccentric to the axis of the contactor and adapted to be engaged by a driving member rotatable about an axis parallel to but spaced from that of the contactor.

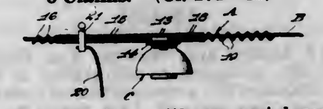
2,279,624
STAPLING HAMMER
Desmond R. La Place, Beaver Falls, Pa., assignor to Bocjl Corporation, Pittsburgh, Pa., a corporation of Delaware
Application March 12, 1940, Serial No. 323,551
25 Claims. (Cl. 1—49)

1. A stapling hammer comprising a handle having a main frame member secured thereto and forming the head of the hammer, a combined staple holding and feeding unit carried by the frame member and rectilinearly slidable therein relatively thereto in a fore and aft direction, one end of said unit normally projecting beyond one end of the frame member to provide the striking surface for the hammer, and a driver on the frame cooperating with the staple holding



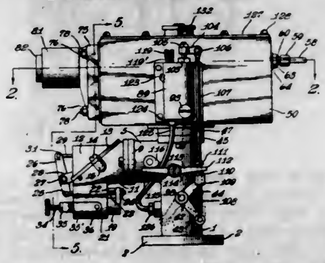
and feeding unit for driving staples through said striking part of the hammer.

2,279,625
VIBRATION DAMPING TIE WIRE
William Lancaster, Alexandria, Va.
Application September 13, 1940, Serial No. 356,688
8 Claims. (Cl. 174—42)



1. The combination with an aerial conductor and a support therefor of a tie wire and vibration dampener comprising a unitary strip of metal embracing a plurality of integrally united ribs extending in helical paths along the length of the strip, said strip being wrapped in closely spaced helical turns about the conductor in juxtaposition to the support therefor.

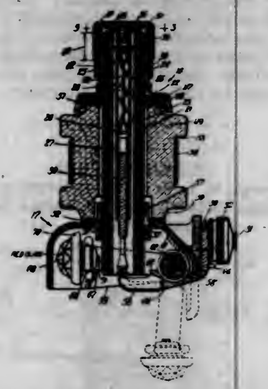
2,279,626
CARBURETOR
George V. Lehew, Belle Vernon, Pa.
Application October 2, 1939, Serial No. 297,615
1 Claim. (Cl. 261—41)



In a carburetor including a suction column carrying a superposed carbureting unit proper and adapted for communicable attachment to the fuel intake of an internal combustion engine or utility requiring a combustible mixture of air and vaporized fuel for its operation and by its operation creating the suction in the suction column, said suction column containing a throttle valve and being provided with a lateral air intake above the throttle valve and controlled by a capacity controlling valve, means for supplying a combustible mixture for operating the engine or utility to which the carburetor is applied at idling speed with the throttle valve closed and for starting purpose with the throttle valve open and the capacity controlling valve closed or nearly closed, said means comprising a unitary assembly including a body block attached to the carbureting unit proper and having a transverse bore communicable with the liquid fuel supply

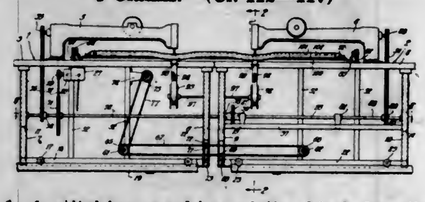
within the carburetor unit proper, means for restricting the flow of liquid through said transverse bore, a longitudinal bore in said block communicable with said transverse bore and provided with a self-closing valve yieldably held in normally closed position, interconnected means between said self-closing valve and the throttle valve and capacity controlling valve whereby said controlling valve is opened when the throttle valve is in closed position and when said capacity controlling valve is in closed or nearly closed position, a companion longitudinal bore in said body block, a pipe connection between said companion bore and the suction column below the throttle valve therein, a lateral passageway in said body block connecting said first-mentioned bore and companion bore therein, an air inlet port in said body block communicable with said companion bore therein, and a selectively adjustable valve element for controlling the supply of air to said companion bore from said inlet port.

2,279,627
FUSE CONSTRUCTION
Sigurd I. Lindell and Anthony Van Ryan, Chicago, Ill., assignors to Schweitzer & Conrad, Inc., Chicago, Ill., a corporation of Delaware
Application December 28, 1939, Serial No. 311,336
20 Claims. (Cl. 200—117)



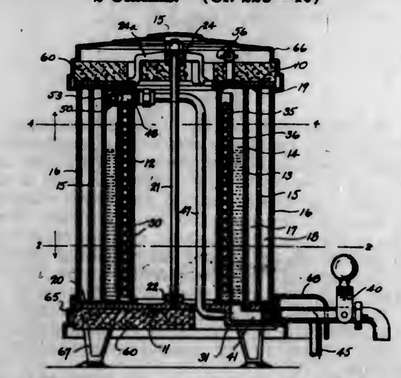
12. In a fuse device, in combination, a line terminal having a tubular exteriorly threaded portion, a fuse tube of insulating material within and projecting at one end a substantial distance beyond said line terminal for receiving through said one end a fuse link having as one terminal a flanged head larger than the bore of said fuse tube and as the other terminal a flexible lead, said flanged head of said fuse link in operative position abutting said one end of said fuse tube and being insulated from said line terminal thereat with said flexible lead extending out of the other end of said fuse tube, a metallic cap having an interiorly threaded portion for engaging said threaded portion of said line terminal for first closing said one end of said fuse tube and subsequently when further screwed onto said line terminal interconnecting the same with said flanged head, a lever pivoted adjacent the other end of said fuse tube and operatively engaging said flexible lead, and spring means biasing said lever for tensioning said fuse link and holding said flanged head in said abutting relation while said metallic cap is being screwed into said connecting position.

2,279,628
APPARATUS FOR SEWING MATTRESS PADS AND QUILTS
Sam Marsack, Milwaukee, Wis., assignor to Marsack Patents Corporation, Milwaukee, Wis., a corporation of Delaware
Application May 21, 1938, Serial No. 209,221
8 Claims. (Cl. 112—117)



1. A stitching machine of the kind described comprising supporting means, a pair of opposed stitching mechanisms mounted thereon, means for simultaneously driving said mechanisms, a pair of spaced rails extending transversely to said mechanisms, each of said rails positioned adjacent a respective mechanism, a carriage providing a receptacle movable on the track formed by said rails, a frame engageable with said carriage and closely fitting in said receptacle, means adjacent the edges of said frame for maintaining the material to be stitched in operative position thereon, said carriage operative to carry said frame with the material to be stitched, during the latter's passage through the stitching mechanism.

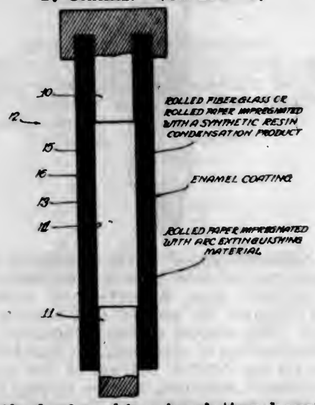
2,279,629
LIQUID COOLING AND DISPLAY DEVICE
Thomas G. McClanahan, Seattle, Wash.
Application October 16, 1939, Serial No. 299,691
2 Claims. (Cl. 225—40)



1. A liquid cooling and dispensing device comprising a central cylindrical housing and a series of spaced, cylindrical glass vessels of different diameters concentrically arranged about the said central housing and forming an annular, cylindrical liquid-tight compartment adjacent the inner housing, and a succession of insulating air compartments surrounding the said liquid compartment, a series of cooling coils for a circulated refrigerant formed about the inner housing for cooling its contents by direct contact, an open supply pipe leading from a source of supply of liquid under pressure into the upper end of the liquid compartment to maintain the vessel substantially full and a dispensing tap connected with the lower end of the liquid compartment; said supply pipe connecting in the compartment

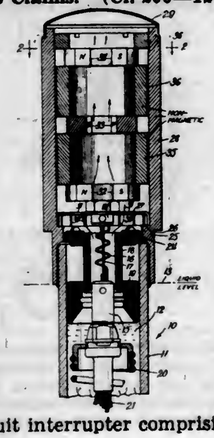
with horizontally disposed delivery tables each equipped with a plurality of downwardly directed jets through which the entering liquid will be discharged into that liquid contained in the vessel incident to any being withdrawn through the tap to form a head thereon.

2,279,630
METHOD OF MAKING INSULATING HOUSINGS
George F. McMahon, Chicago, Ill., assignor to Schweitzer & Conrad, Inc., Chicago, Ill., a corporation of Delaware
Application March 11, 1940, Serial No. 323,490
17 Claims. (Cl. 154—2)



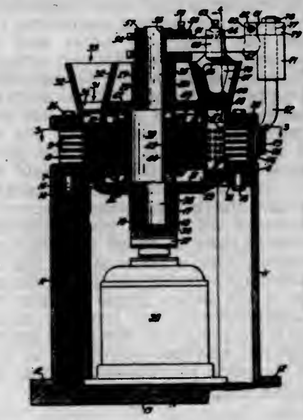
1. Method of making insulating housings for surrounding and confining arcs and extinguishing the same which comprises: superimposing on a liner an outer sleeve previously impregnated with an insulating compound that is cured by heat, and subsequently impregnating the liner with an arc extinguishing material whose arc extinguishing characteristics would be impaired if it were subjected to the heat required to cure the outer sleeve.

2,279,631
CIRCUIT INTERRUPTING APPARATUS
George F. McMahon, Chicago, Ill., assignor to Schweitzer & Conrad, Inc., Chicago, Ill., a corporation of Delaware
Application June 14, 1940, Serial No. 340,423
25 Claims. (Cl. 200—120)



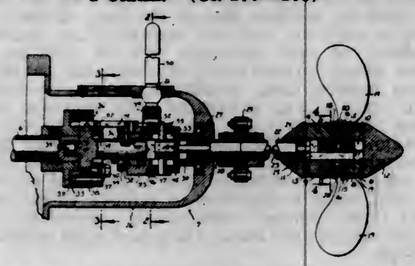
12. A circuit interrupter comprising, in combination, a pair of relatively movable terminals between which an arc is established resulting in the formation of metallic particles possessing magnetic properties at the temperature of the arc and supporting combustion on contact with air thereby forming a conducting flame, arc extinguishing material adapted to evolve an arc extinguishing medium due to the heat of the arc, means directing said arc extinguishing medium endwise of said terminals thereby creating a blast which sweeps away said metallic particles from between said terminals, means confining said blast out of proximity with said arc and from contact with the air, and means providing a magnetic field independent of the current flow through said arc in the space in which said blast is confined for influencing a substantial portion of said metallic particles to remove them from said blast thereby substantially preventing the formation of said flame when said blast contacts the air.

2,279,632
APPARATUS FOR FORMING PELLETS
Edgar T. Meakin, San Francisco, Calif.
Application December 31, 1938, Serial No. 248,715
25 Claims. (Cl. 107—8)



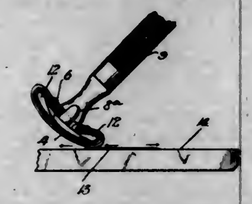
1. A device of the character described comprising an annular, perforated die ring, a pair of plates disposed adjacent opposite sides of said die ring to provide within the ring an enclosed chamber, journals in each of said plates axially concentric with the axis of said die ring, a shaft mounted in said journals and passing through said chamber, said shaft having a portion thereof disposed in said chamber axially offset with respect to the main body of the shaft to provide a crank, a roller journaled on the offset portion of said shaft having a point on its periphery in substantial engagement with the inner periphery of said die ring so as to provide, between the confronting faces of said die ring and roller, a crescent-shaped compartment within said chamber into which moldable material may be introduced, means for introducing said material into said compartment, means for rotating said drive shaft to move said roller orbitally about the axis of said die ring to compress and force said material through the perforations of said die ring, and means for moving said roller radially toward and from the inner periphery of said die ring.

2,279,633
VARIABLE PITCH PROPELLER
Arnold J. Merickle, West Allis, Wis., assignor of one-third to Henning J. Sellberg and one-third to Ralph L. Switzer, Milwaukee, Wis.
Application October 9, 1939, Serial No. 298,597
1 Claim. (Cl. 170—163)



In a variable pitch propeller, the combination of: a hollow drive shaft; a hub fixed to one end of the drive shaft and having a cavity opening to the interior of the drive shaft; blades carried by the hub; mechanism inside the hub for varying the pitch of the blades; a shift rod of less diameter than the inside diameter of the hollow drive shaft, said shift rod being movable endwise inside the hollow drive shaft and connected with the pitch varying mechanism inside the hub; a transmission into which the other end of the hollow drive shaft and the shift rod extend and through which the drive shaft is connectible with a source of power, including manual shift mechanism connected with the shift rod for moving the same back and forth axially of the hollow drive shaft to vary the pitch of the propeller blades, a power shaft coaxial with said hollow drive shaft, and cooperating clutch parts connected with said shafts and rendered operative to drivingly connect the shafts upon actuation of said shift mechanism to move the shift rod in either direction; and a housing for the transmission having its interior communicating with the interior of the hollow drive shaft so that a lubricant contained in the housing may flow through the hollow shaft in the space between it and the shift rod and into the cavity of the hub to lubricate the pitch varying mechanism therein and protect the same against corrosion.

2,279,634
SHARPENER FOR SAFETY RAZOR BLADES
Charles Metzler, Cincinnati, Ohio
Application April 30, 1940, Serial No. 332,568
5 Claims. (Cl. 51—186)



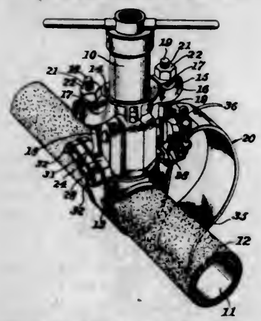
1. A device of the character specified comprising a sharpener element adapted to fit upon the head of a safety razor, said element having flanges arranged to form channels to receive opposite edges of said head, the edges of said flanges being adapted to be engaged by the handle of said razor whereby said element is secured to said head.

2,279,635
LUMINOUS VAPOR LAMP
Joseph Morley, Los Angeles, Calif., assignor of one-eighth to Fred J. McKane, Los Angeles, Calif.
Application January 7, 1941, Serial No. 373,451
1 Claim. (Cl. 176—122)



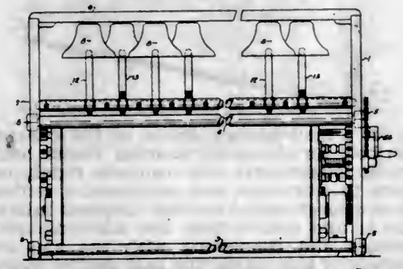
In a luminous vapor lamp, a bulb, a plug on which one end of said bulb is mounted, a metal sheath on said plug, a portion of which plug projects through the end of said sheath, a substantially disc-shaped contact member on the projecting portion of said plug, an insulating disc mounted on the central portion of the outer face of said contact member, a tube having a coiled portion in the chamber within said bulb, the ends of which tube are seated in said plug, electrodes seated in the ends of said tube, said tube being filled with gas that is rendered luminous by the passage of an electrical discharge therethrough, one of which electrodes is electrically connected to the contact on said plug and the other electrode being electrically connected to the sheath of said plug.

2,279,636
CLAMPING BELT FOR CONNECTING TAPPING MACHINES TO MAINS
Frank H. Mueller and Walter J. Bowan, Decatur, Ill., assignors to Mueller Co., Decatur, Ill., a corporation of Illinois
Application September 28, 1939, Serial No. 297,011
7 Claims. (Cl. 77—37)



1. In combination with a tapping machine having a main-engaging base, of means for removably mounting the machine on a coated main, said means including belt-engaging members disposed on opposite sides of the machine, a flexible belt substantially the width of the main-engaging base of the tapping machine, said base having a surface conforming to the surface of the coated main and of an area to engage the coated main without injury thereto, means above said main for connecting the belt to said belt-engaging members, and means for tightening the belt-engaging members, whereby when said members are tightened said tapping machine base and belt are brought into gripping engagement with the main so as to maintain the base of the tapping machine in stable position and prevent damage to the coated main at all points of contact of said tapping machine base and said belt.

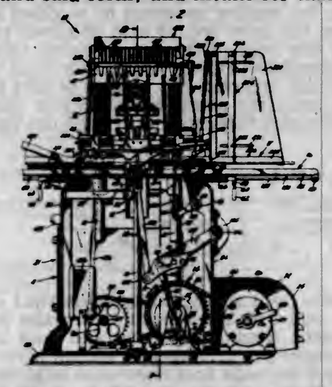
2,279,637
MUSICAL INSTRUMENT
Wladimir J. Owczynikow, Cleveland, Ohio
Refiled for abandoned application Serial No. 254,033, February 1, 1939. This application May 1, 1941, Serial No. 391,393
7 Claims. (Cl. 84—103)



1. In a musical instrument of the class described, in combination, an outer main frame, an inner auxiliary frame supported therein, guide means intermediate the auxiliary frame and the main frame for guiding the movement of the auxiliary frame when shifted within the main frame, sound producing bodies, hammers cooperating with the sound producing bodies, playing means carried by the auxiliary frame and shiftable therewith, said playing means comprising members cooperative with the hammers for actuation thereof, said playing members being arranged in separate series upon the playing means so that playing members of each series may be brought into cooperation with certain hammers according to the adjustment of the auxiliary frame and playing means relatively to the main frame, operating mechanism for the playing means, a locking member carried by the main frame and relative to which the auxiliary frame is movable, and a locking plate mounted upon the auxiliary frame and movable into and out of engagement with the locking member so as to hold the auxiliary frame in different positions maintaining predetermined playing members on the playing means in a path of travel for cooperation with certain hammers.

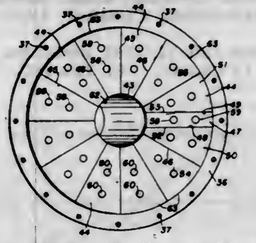
2,279,638
AUTOMATIC NAILING MACHINE
Gerald C. Paxton and Glenn M. Criger, Riverside, Calif., and Walter Hale Paxton, deceased, late of Riverside, Calif., by Geraldine Paxton and H. S. Nicks, executors, Riverside, Calif., assignors to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application November 13, 1939, Serial No. 304,162
59 Claims. (Cl. 1—14)

1. In a box making machine, the combination of: a frame; magazines on said frame containing side, end and bottom shook; a form adapted to receive a set of shook from said magazines in assembled relation to form a box; power means causing relative movement between said magazines and said form; and means for nailing said



shook together while supported in said assembled relation on said form, said nailing means being actuated in response to said relative movement between said magazines and said form.

2,279,639
END LINER FOR GRINDING MILLS
Maxwell L. Rahner, Highland Park, Ill.
Application April 10, 1939, Serial No. 267,112
5 Claims. (Cl. 83—9)

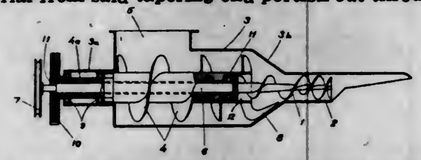


1. In a grinding mill, the combination with a cylindrical housing, of end head members detachably connected to said housing, means projecting from said end head members to rotatively support said housing, non-tiltable complemental edge contacting end liner sectors detachably associated with the interior surface of said end head members to define a continuous liner surface, a tiltable liner insert between two end liner sectors and having parallel edges extending for the entire length thereof, and non-tiltable liner sectors adjacent said tiltable liner insert and non-tiltable end liner sectors, said adjacent non-tiltable liner sectors having edges complemental to the edges of said non-tiltable liner sectors and said tiltable liner insert for facilitating liner removal.

2,279,640
BAG FILLING APPARATUS
Emil Reinhold Ringmarck, Svedala, Sweden
Application May 24, 1940, Serial No. 337,088
In Sweden May 27, 1939
3 Claims. (Cl. 226—48)

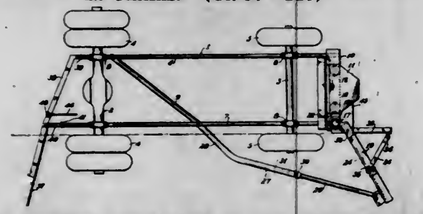
1. A valve bag filling apparatus of the character described, comprising in combination, a casing providing a substantially cylindrical chamber

having an inlet opening in its side adjacent one of its ends, and a tapering end portion at its opposite end, a substantially cylindrical nozzle disposed as a continuation of said tapering end portion of said chamber, a rotatable screw in said chamber for feeding material to be filled into a bag from the inlet end of said chamber to said tapering end portion thereof, a second rotatable screw extending axially from said first screw through said tapering end portion of said chamber and into said nozzle for conveying the material from said tapering end portion out through



said nozzle, said substantially cylindrical chamber and said first screw being materially greater in diameter than said nozzle and said second screw, means for driving said second screw at a high speed and said first screw at a relatively low speed, said first screw comprising a continuously solid cylindrical wall having a helical blade exteriorly thereof, and defining a central bore, a shaft extending from said second screw and passing through said bore, whereby the material fed through the casing is maintained out of contact with said shaft.

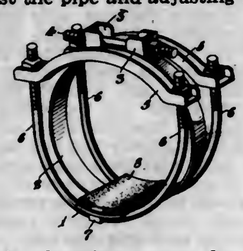
2,279,641
SHOULDER FINISHING APPARATUS
Lester T. Ross, Crestline, Ohio, assignor to The Burch Corporation, Crestline, Ohio, a corporation
Application July 14, 1941, Serial No. 402,378
12 Claims. (Cl. 37—146)



1. Grading apparatus of the character described, comprising, in combination, a truck having wheels supporting the same for movement along the edge of a paved road, a blade mounted on the truck forwardly of one of said wheels for scraping and moving dirt inwardly with respect to the truck and road upon forward movement of the truck, said wheel and blade being arranged with respect to each other in such manner that the dirt moved inwardly by said blade will be compacted by said wheel during forward movement of the truck, and a blade mounted on said truck rearwardly of said wheel for moving outwardly with respect to said truck and road excess quantities of dirt left after a compacting action by said wheel.

2,279,642
CLAMP
William Joseph Schreiner, Cincinnati, Ohio
Application December 5, 1938, Serial No. 243,985
3 Claims. (Cl. 138—99)

1. A pipe repair clamp comprising a covering plate; a flexible adjusting band for holding said plate against the pipe and adjusting its position;



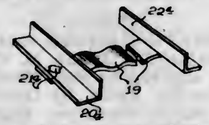
and separate clamping means for conforming and securing said plate to the pipe.

2,279,643
MAIL DISPENSER
Monroe H. Silver, Canton, N. C.
Application October 7, 1940, Serial No. 360,207
2 Claims. (Cl. 211—11)



1. In a mail holding device of the character described, an elongated skeleton frame having parallel longitudinal side members rigidly connected to transverse end members, a centrally disposed longitudinal member disposed intermediate of and spaced from the side longitudinal members and connecting with the end cross members of the frame, the said central member being parallel with and in a common plane with the longitudinal side members, the said side and central longitudinal members including telescopically connected sections for lengthwise adjustment of the frame, an upwardly projecting arm formed on each end cross member of the frame, an elongated cylindrical coil of wire mounted longitudinally on the frame having its ends fastened to the said end arms, the said coil being of an external diameter exceeding the width of the frame and resiliently extensible therewith, the said coil resting on the side longitudinal members of the frame and having the central longitudinal member extended through the lower portion thereof to firmly connect the coil with the frame, the respective convolutions of the coil being disposed to releasably engage mail matter in transverse position therebetween.

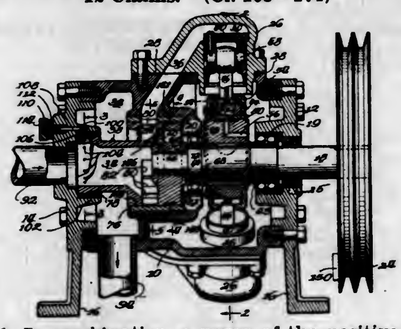
2,279,644
FURNACE WALL TIE
Albert K. Spalding, Dallas, Tex., assignor to Thermo Fire Brick Company, Sulphur Springs, Tex.
Application May 18, 1940, Serial No. 335,887
3 Claims. (Cl. 72—103)



1. As a new article of manufacture, a furnace wall tie comprising a corrugated tail portion and a head secured transversely to said body to form a T, said head comprising a length of angle iron disposed in converse relation to said tail portion and arranged to be engaged within T-slots

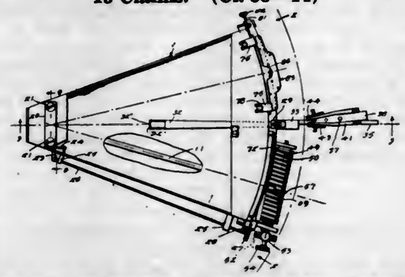
formed in certain fire bricks forming an inner furnace wall whereby one angle thereof will lie flush against the inner surface of a T-slot, said corrugated tail portion being arranged for anchorage between the bricks of the outer furnace wall.

2,279,645
PUMP
Alfred C. Sinclair, Memphis, Tenn.
Application May 12, 1939, Serial No. 273,227
12 Claims. (Cl. 103—174)



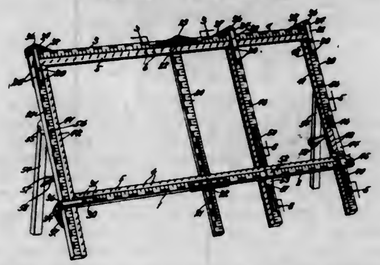
1. In combination, a pump of the positive displacement type having a pulsatory discharge characterized by periodic pressure peaks above a uniform value, a suction passage therefor, a discharge passage therefor, and means connecting the discharge to the suction passage in synchronism with and during the pressure peak periods for effecting flow from the discharge to the suction passage in quantities to effect a substantially uniform discharge.

2,279,646
DEVICE FOR MAKING SPECTRAL ANALYSES
Frank P. Smith, Silver City, N. Mex.
Application January 31, 1939, Serial No. 253,916
15 Claims. (Cl. 88—14)
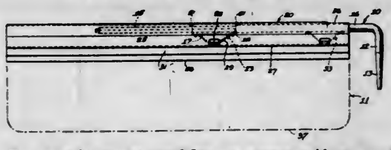


1. An instrument of the character described, including a casing, and means for subjecting to a flame a specimen for analysis, means for receiving a light beam from such flame and conducting the same into the casing, an optical unit disposed in the casing in position to receive such light beam and formed to produce a spectral band therefrom, said casing having an elongated window in a wall thereof arranged at a point remote from the unit to receive reflected light rays from the unit, an eye-piece supported exteriorly of the casing for movement lengthwise of said window along an arcuate path having said unit at its radial center and directed toward the unit whereby said spectral band may be scanned, means for moving said eye-piece lengthwise of said window, a cylinder body rotatably supported adjacent to said eye-piece and having its axis of rotation extending lengthwise of the window, said cylinder body being provided with element identifying symbols arranged helically therearound, an operative coupling between the eye-piece and the cylinder body by which movement of the eye-piece lengthwise of the window and rotation of the cylinder are effected simultaneously, a pointer connected with said coupling and moving on a straight path axially of the cylinder and arranged to indicate element symbols upon the cylinder, a second cylinder supported for coaxial and simultaneous rotation with the first cylinder and having a wave length scale around its periphery, and a fixed pointer for the second cylinder.

2,279,647
CURTAIN STRETCHER
Landon C. Watling, Webster Groves, Mo.
Application August 12, 1939, Serial No. 289,734
3 Claims. (Cl. 45—24)



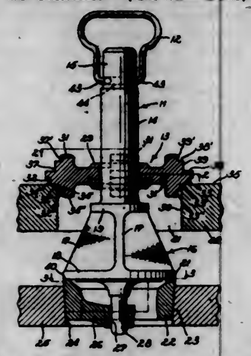
1. In a device of the character described, two frame sections each including a horizontal bottom rail section and a horizontal top rail section, pivotally connected hinge members attached to the adjacent ends of said respective rail sections, parts rigid with said hinge members that overlap when the respective rail sections are in longitudinal alinement, a locking bar extending from one hinge to the other and overlapping said parts, and clamping devices engaging said rail sections and said overlapping parts of said hinges and said locking bar and cooperating with said locking bar to prevent relative movement of said respective rail sections.

2,279,648
VISOR ASSEMBLY
Frederick J. Westrope, Pleasant Ridge, Mich., assignor, by mesne assignments, to Reconstruction Finance Corporation, Detroit, Mich., a corporation of the United States
Application April 26, 1941, Serial No. 390,581
10 Claims. (Cl. 296—97)



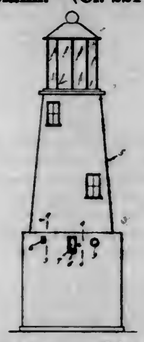
1. In a visor assembly, a supporting rod, a sleeve mounted on said rod for motion longitudinally therealong, a visor support engaging said sleeve, a visor mounted on said visor support, yielding means for urging said visor support into releasable engagement with said sleeve, and additional yielding means for urging said visor support into releasable engagement with said supporting rod.

2,279,649
VALVE SEAT DRIVER
Clarence White, Walnut Park, and Oliver B. Graham, Los Angeles, Calif., assignors to Oil Well Manufacturing Corporation, Los Angeles, Calif., a corporation of California
Application March 24, 1939, Serial No. 264,028
10 Claims. (Cl. 29—33.2)



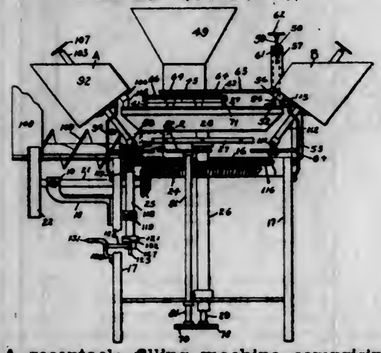
10. In a valve seat driver for installing a valve seat in a valve seat aperture, the valve seat having a guide aperture therein, the combination of: a driving shank; percussion head means on one end of said shank; driving head means on the other end of said shank and adapted to engage the valve seat; a guide member carried on said shank so as to permit axial movement of said shank relative thereto; and a stem on said driving head means adapted to cooperate with the guide aperture of the valve seat for maintaining said driving head means in axial alignment with said valve seat.

2,279,650
COIN CONTROLLED LIQUID DISPENSER
Charles D. Wood, Texas City, Tex.
Application May 10, 1939, Serial No. 272,911
1 Claim. (Cl. 221—101)



A liquid dispensing machine comprising a liquid source, a pump, an electric motor in driving connection with the pump, said liquid source being connected to the pump, and an outlet conduit from the pump, a turbine to which the conduit is connected, a dispensing outlet for the turbine, a shaft driven by the turbine, a current supply, a duration switch on the shaft interposed between the current supply and the motor, and manual means for setting the shaft, said manual means consisting of a ratchet wheel on the shaft, a bracket, a slide member slidably supported by the bracket, a pawl having a shank slidably disposed through the slide member, spring means for normally engaging the pawl with the ratchet wheel, a manually engageable head at the outer end of the slide member and spring means for holding the slide member in an outwardly extended position with respect to the pawl.

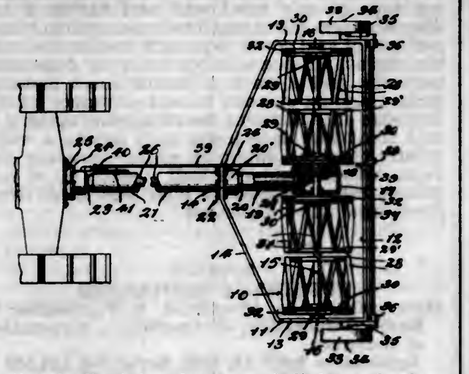
2,279,651
RECEPTACLE FILLING MACHINE
Charles H. Ayars, Salem, N. J., assignor to Ayars Machine Company, Salem, N. J., a corporation of New Jersey
Application August 24, 1939, Serial No. 291,648
4 Claims. (Cl. 226—97)



1. A receptacle filling machine comprising a table, a hollow shaft having a funnel member and a main star wheel mounted thereon, a solid shaft extending through said hollow shaft, a discrete material measuring and dispensing device operated by said solid shaft, a shaft having a star wheel on its upper end and operatively connected with said solid shaft, a stub shaft mounted in said table, a liquid measuring and dispensing device, a shaft for operating said last device and connected to said stub shaft by a universal joint, a star wheel on said stub shaft, receptacle feeding mechanism, and means for driving said hollow shaft and feeding mechanism, said feeding mechanism arranged to feed a receptacle to the star wheel on the stub shaft and to be engaged by the main star wheel to deposit liquid into said receptacle, said main star wheel then advancing said receptacle to engage the star wheel on the shaft connecting the discrete material operating shaft to deposit material into said receptacle.

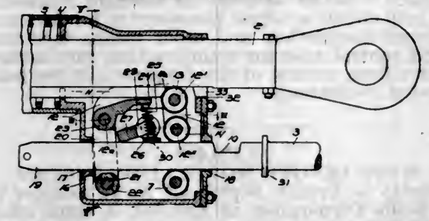
2,279,652
POWER TAKE-OFF FOR GROUND PULVERIZERS
Ava M. Beard, Butler, Mo.
Application November 25, 1940, Serial No. 367,129
1 Claim. (Cl. 97—40)

A ground pulverizing unit comprising a frame having a back wall, parallel end walls and a forwardly diverging front wall having a flat portion medially of the front wall, a shaft revolubly mounted between the end walls, a pair of pulverizing units fixed to the shaft for rotation therewith, a pulverizing unit being mounted upon the sides of the medial portion of the shaft, a housing on the shaft at the medial portion thereof, said housing having a tubular extension and terminating in a universal joint constructed for mounting upon the flat portion of the front wall, a ring gear on the shaft positioned within the housing, a drive shaft extended through the tubular extension and into the housing, a gear on the drive shaft in mesh with the ring gear, said drive shaft having means for connection with the power take-off of a tractor, said frame including a rock shaft on the back wall, link members rigid



on the shaft, stub axles on each link, a wheel on each stub axle and means connected with the rock shaft for raising and lowering said link members and wheels.
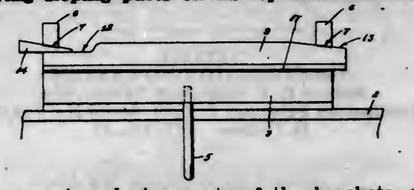
2,279,653
OPERATING MECHANISM FOR DOUBLE-ACTING AUTOMATIC BRAKE SLACK ADJUSTERS
Bert Henry Browall, Malmo, Sweden, assignor to Svenska Aktiebolaget Bromsregulator, Malmo, Sweden, a corporation of Sweden
Application April 19, 1940, Serial No. 330,619
In Germany April 19, 1939
4 Claims. (Cl. 188—198)



1. In an operating mechanism for double-acting automatic brake slack adjusters of the type comprising a brake rod and a member slidable axially in both directions on said brake rod, a member for operating said slidable member by relative movement of said operating member and said brake rod in one direction at application and in the other direction at release of the brake, and a member mounted on said slidable member and movable under the control of the relative movement between said operating member and said brake rod into either of two positions, for locking said slidable member to either said brake rod or said operating member.

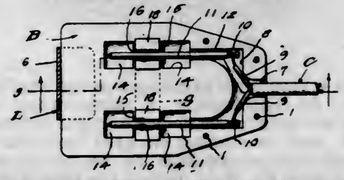
2,279,654
METAL BENDING MACHINE
Ralph Vernon Carter, Half Moon Bay, Calif.
Application January 21, 1941, Serial No. 375,332
4 Claims. (Cl. 153—16)

1. In a metal bending machine, a base, a bending lever having one side edge hinged to the top of the base at the front thereof, a handle on the lever, brackets extending upwardly from the rear of the base and having forwardly extending portions, the under edges of the forwardly extending portions and the front edges of the upper portions of the vertical arms of the brackets having beveled portions and an insert member adapted to be placed between the base and the forwardly extending portions and having sloping parts on its top and rear walls



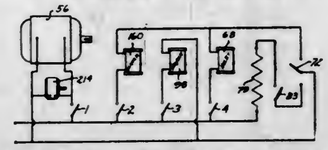
for engaging sloping parts of the brackets, all the beveled or sloping parts sloping in the same direction, longitudinally of the device whereby the insert will automatically adjust itself by longitudinal and rearward movements to the various gauges of metal placed between the insert and the top of the base and bent by upward movement of the lever.

2,279,655
SHORT-CIRCUITING DEVICE
Joseph Catania, Monongah, W. Va.
Application November 23, 1940, Serial No. 366,913
5 Claims. (Cl. 200—51)



1. A short-circuiting device for the prongs of a shooting cable comprising two overlying members of a material non-conductive of electricity, means connecting the rear portions of said members, the forward portions of said members being readily separated, the prongs of the shooting cable being entirely enclosed between the members, and a short-circuiting plate carried by the inner face of one of the members and arranged to engage both prongs when the said forward portions of the members are in unseparated relation.

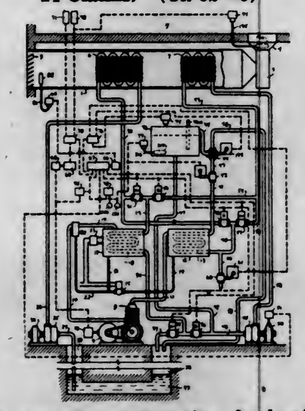
2,279,656
WASHING MACHINE
John W. Chamberlin and Rex Earl Bassett, Jr., South Bend, Ind., assignors to Bendix Home Appliances, Inc., South Bend, Ind., a corporation of Delaware
Application November 21, 1938, Serial No. 241,614
6 Claims. (Cl. 68—16)



4. A washing machine having means for driving selectively at high or low speeds, a control device for said means having a circuit which is open during low speed drive and closed during high speed drive, heating means having a circuit, a float controlled by the liquid level in said machine, and means operated by said float for open-

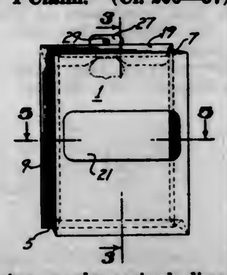
ing the first circuit when the machine contains liquid up to a predetermined level and for opening the heating means circuit when there is no liquid in the machine, so that the machine cannot be driven at high speed when there is liquid in the machine and the heating means cannot be operated unless there is liquid in the machine.

2,279,657
AIR CONDITIONING SYSTEM
Robert B. P. Crawford, Miami, Fla.
Application February 6, 1939, Serial No. 254,839
14 Claims. (Cl. 62—6)



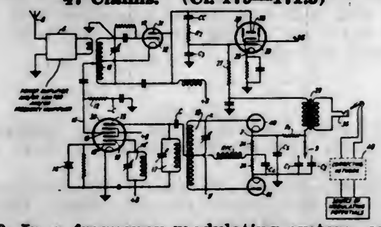
3. In a reversible cycle system for heating and cooling, in combination, a refrigeration system having an evaporator device and a condenser device, a heat exchanger in heat exchange relationship with a medium to be conditioned, a storage tank for fluid, means for selectively connecting said heat exchanger into fluid circulating relationship with either said evaporator device or condenser device while maintaining said storage tank connected for receiving fluid from one of said devices, a flow controller for controlling the flow of fluid through said one device, and means responsive to the temperature of the fluid for controlling said flow controller.

2,279,658
CONTAINER
Earl R. Crebbs, San Francisco, Calif., assignor to Stanley Pedder, Contra Costa County, Calif.
Application September 19, 1939, Serial No. 295,588
1 Claim. (Cl. 206—57)



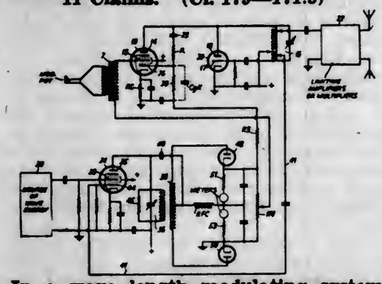
A dispensing package including a container comprising a front and rear wall, gusseted side walls and a gusseted bottom interconnecting said front and rear walls, said front wall having an uncovered opening therein through which to show and dispense the contents of said container, a cover gusseted to provide a complementary fit with said side walls at the open end of said container, all of said gussets being single and extending inwardly, said cover being hinged to the top edge of said front wall and having a tab adapted to extend through said rear wall in closed position of said cover to provide means for loading and suspending said container for dispensing purposes, and a stack of folded sheet material items standing on edge in said container with a free edge of each facing the dispensing opening in said front wall, said items each having a width greater than the minimum empty-container distance between said side wall gussets, all of said gussets being stressed to hold said sheet items firmly against said opening.

2,279,659
FREQUENCY MODULATOR
Murray G. Crosby, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application April 13, 1937, Serial No. 136,578
47 Claims. (Cl. 179—171.5)



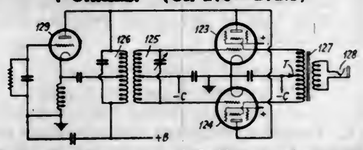
28. In a frequency-modulating system, an oscillation generator having a resonant circuit for determining the frequency, means comprising a control tube for varying the resonant frequency of said circuit at signal frequency to produce frequency-modulation, and other means including said control tube for counteracting slow departures from normal of the frequency of the generated oscillations.

2,279,660
WAVE LENGTH MODULATION SYSTEM
Murray G. Crosby, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application January 5, 1940, Serial No. 312,446
11 Claims. (Cl. 179—171.5)



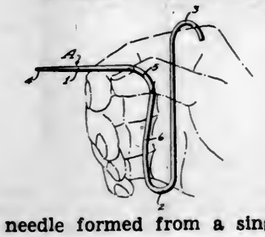
1. In a wave length modulating system, an oscillation generator having a frequency-determining resonant circuit, a tube having a plurality of grids and a pair of electrodes connected with said resonant circuit to vary the effective value of one of the reactive components of said circuit in accordance with signal impulses impressed on one of said grids to produce wave length modulation of the generated oscillations, means for stabilizing the mean wave length of the oscillations including a tuned detector coupled to the resonant circuit and connected to another of said grids to react on the said tube to produce wave length modulation in such a direction as to counteract departures from the mean wave length, and means including said tuned detector for impressing a potential on an electrode of said tube which is a function of the modulation envelope of said modulated wave to improve the linearity of said wave length modulation.

2,279,661
WAVE CONTROL AND CONTROL CIRCUIT
Murray G. Crosby, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Original application May 25, 1938, Serial No. 209,919. Divided and this application March 9, 1940, Serial No. 323,078
7 Claims. (Cl. 179—171.5)



1. In a frequency modulation system an electron discharge tube generator having electrodes coupled by a circuit including parallel inductance and capacity for the production of oscillatory electrical voltages to be modulated in frequency, and means for modulating the frequency of the said produced voltages at signal frequency comprising a pair of electron discharge systems each having an electron emission element, an anode and a control electrode, means coupling said anodes to said circuit to apply voltages of the frequency of operation of said generator to said anodes, a second circuit including parallel inductance and capacity connected to the control electrodes of said discharge systems, said last named inductance being coupled to said first named inductance to apply voltages of the frequency of operation of said generator from said first named inductance to said control electrodes of phases such that a substantially phase quadrature relation between the voltages on the anode and control electrode of each discharge system is established, whereby a reactive effect is produced in said systems and effectively tunes said circuit to thereby determine the frequency of the oscillatory voltages produced, and means for controlling the gain of each of said systems at signal frequency to thereby modulate the frequency of the produced oscillatory voltages at signal frequency.

2,279,662
RUG NEEDLE
Charlotte Denner, Santa Rosa, Calif.
Application April 23, 1940, Serial No. 331,132
5 Claims. (Cl. 223—102)



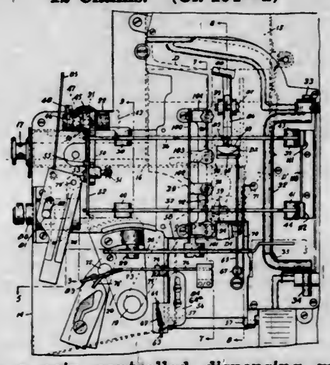
1. A needle formed from a single length of rod or wire and having a hook at one end, a straight portion leading therefrom, an open-ended looped hand-gripping portion integral with the straight portion, and a saddle portion integral with the loop and being disposed at the opposite end of the needle from that of the hook, the saddle being disposed at a higher elevation than said straight portion so that the saddle can rest on the index finger of the operator's hand, while the straight portion rests on the middle finger with the looped portion disposed in the palm of the operator's hand.

2,279,663
CUFF GUARD AND FORM PROTECTOR
Robert A. Dillon, Los Angeles, Calif.
Application November 13, 1940, Serial No. 365,479
5 Claims. (Cl. 2—123)



1. In a device as described, a sheet material reinforcement element for a fabric tubular structure having a series of perforations with adhesive buttons fitted in the perforations, such buttons being adapted to engage the inside of the fabric structure and attach the reinforcement element thereto.

2,279,664
COIN CONTROLLED MECHANISM
Francis C. Du Grenier, Haverhill, Mass., assignor of one-half to Blanche E. Bouchard, Haverhill, Mass.
Application June 9, 1939, Serial No. 278,278
12 Claims. (Cl. 194—1)



1. In a coin controlled dispensing machine having a series of compartments for containing articles to be vended at different price values, a separate ejector for each compartment, each having operating means to move it from and to an initial position to perform a dispensing operation, an intercepting device disposed in the path of movement of each ejector as it moves from initial position to prevent operative movement thereof when no coin has been inserted, mechanism interposed between each operating means and said intercepting device for moving the latter to permit operation of a selected one

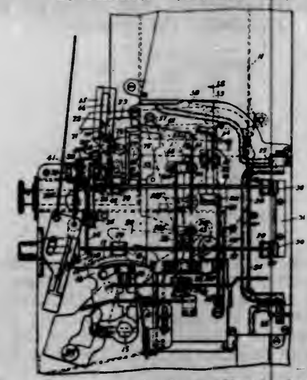
of said ejectors on operative movement of its associated operating means, said mechanism including coin controlled means for varying the extent of motion of said intercepting device according to the value of the inserted coin or coins and permit ejecting action of a selected one of said ejectors for a compartment containing an article of corresponding value.

2,279,665

COIN CONTROLLED MECHANISM

Francis C. Du Grenier, Haverhill, Mass., assignor of one-half to Blanche E. Bouchard, Haverhill, Mass.

Application July 31, 1940, Serial No. 348,855
15 Claims. (Cl. 194—17)



1. In a coin controlled dispensing machine having a series of compartments for containing articles to be vended, an ejector for each compartment movable from and to its normal position to perform an ejecting operation, operating means for each ejector, a locking latch normally disposed to prevent operative movement of all of said ejectors, a controlling device for said latch, connections between each operating means and said controlling device, for moving the latter to control the position of said latch, said connections including coin controlled means for varying the extent of movement of said controlling device according to the value of the inserted coin or coins, whereby the position of said latch will be varied and operative movement of a selected ejector will be permitted or prevented according to the position of said controlling device.

2,279,666

PRESSURE RELEASE CLOSURE DEVICE

Samuel R. Etnyre, Oregon, Ill., assignor to E. D. Etnyre & Company, Oregon, Ill., a corporation of Illinois

Application August 4, 1940, Serial No. 351,420
6 Claims. (Cl. 220—44)



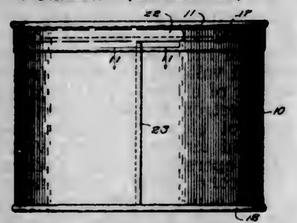
1. A closure device for openings in tanks or the like comprising, in combination, a cover member shaped to fit the opening, a pair of spaced parallel strips secured to the cover member with their ends projecting over the edges of the cover, the projecting ends of said strips being bent to form alined pairs of sockets at opposite sides of the cover member, an elongated bar extending between each pair of sockets, a latch member mounted on one of said bars and cooperating with means on the tank structure to latch the cover member in closed position, a pair of spaced brackets mounted on the tank structure, each bracket having an upwardly opening notch for the reception of the other of said bars, a flat spring operatively secured at an intermediate point to said other bar and having its opposite ends engaged under the respective brackets to releasably hold the bar in said recesses whereby the cover is normally permitted to pivot on the bar and swing between open and closed positions, said spring flexing to slide between the brackets and thus release the cover for pivoting on the first mentioned bar when the pressure on the inner side of the cover reaches a predetermined value.

2,279,667

CAN BODY

Albin L. Forsberg, Chicago, Ill., assignor to The Warfield Company, a corporation of Illinois

Application November 16, 1939, Serial No. 304,823
2 Claims. (Cl. 220—54)



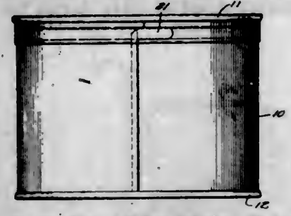
1. A can body of sheet metal having a circumferential band of a plurality of layers near one end, the means joining the edges including a lock seam extending from one end uninterruptedly into and substantially through the band, the seam from the band to the other end of the can being of the simple overlapping type, the locking engagement at the band being only between single layers of the band extending beyond the edges of the other layers, one of the interlocking layers terminating slightly short of the other.

2,279,668

CAN

Albin L. Forsberg, Chicago, Ill., assignor to The Warfield Company, a corporation of Illinois

Application July 29, 1940, Serial No. 348,293
3 Claims. (Cl. 220—54)



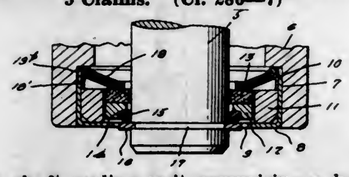
1. A can body formed by joining the edges of a sheet of metal, the sheet being for the major part in a single layer but having a band of a plurality of layers near one end, the outer layer of the band having circumferential parallel lines of weakening therein forming a tear strip lying substantially within the borders of the band, the strip projecting beyond one edge of the sheet to provide a tongue and being notched back at the other edge, the means joining the edges including a lock seam extending from the lower end of the body uninterruptedly through the band, the locking engagement at the band being only between single layers extending beyond the other layers, the edge provided with the tongue being outside the other edge when the body is seamed and the locking portion on this edge being a part of the inner layer at the band and turned inwardly, the depth of the notch where the strip is notched back being double the depth of the locking portion on this same edge, whereby the tail end of the tear strip is not gripped beneath one of the locking portions and readily comes free from the remainder of the can when said strip is torn off.

2,279,669

SHAFT SEALING UNIT

Ray L. Friskney, Aurora, Ill.

Application June 25, 1940, Serial No. 342,383
5 Claims. (Cl. 286—7)



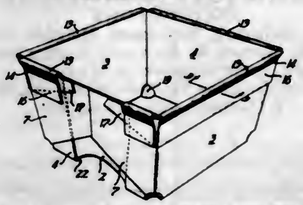
1. A shaft sealing unit comprising a housing for the shaft having a counterbore, a cup-shaped retainer frictionally mounted in the counterbore, an outer sealing washer in the retainer, an inner sealing washer in the retainer positioned axially inwardly on the shaft relative to the outer sealing washer, means carried by the shaft forming an abutment for said washers, a cup-spring in the retainer and including a flange spaced concentrically from the shaft, a plurality of spring fingers on the cup-spring and extending radially inwardly for engaging the inner sealing washer to urge said washers in engagement, and a resilient cover for said fingers.

2,279,670

BOX

George F. Ford, Los Angeles, Boyd R. Lewis, San Marino, and Walter F. Pittman, Huntington Park, Calif., assignors to Fibreboard Products Inc., San Francisco, Calif., a corporation of Delaware

Application April 7, 1939, Serial No. 266,560
2 Claims. (Cl. 229—32)



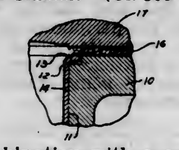
1. A box comprising a bottom, side and end walls folded upwardly from the bottom, a rim flap folded along an upper edge of each of said walls to provide triangularly shaped beads projecting outwardly from the box, each of said beads having a depending skirt portion, and end tabs foldably connected to the side wall beads and underlying the end wall beads.

2,279,671

CYLINDER LINER

Henry Ford, Dearborn, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware

Application March 27, 1939, Serial No. 264,315
4 Claims. (Cl. 309—3)



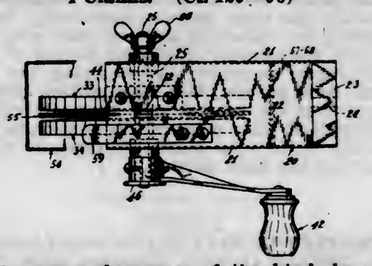
1. The combination with a cylinder of a preformed replaceable one-piece cylindrical liner constructed of low carbon steel and having an extremely thin uninterrupted side wall, said liner being pressed into a bore of said cylinder, the inner surface of said liner being nitrided to produce a wear-resistant surface of great hardness, the major portion of the radial thickness of said liner being left unhardened so that said liner retains such flexibility as to be automatically self-conforming to any slight inequalities existing between the outer periphery of said liner and the bore of said cylinder, and a film of metal forming the exterior surface of said liner, said film being of less hardness than said inner surface and being sufficiently soft to establish an intimate contact for heat transfer from the exterior surface of said liner to the adjacent surface of said bore.

2,279,672

CRAYON SHARPENER

Oscar L. Gerwig, Pittsburgh, Pa.

Application October 25, 1940, Serial No. 362,706
4 Claims. (Cl. 120—96)



1. A crayon sharpener of the kind described comprising a casing provided with a pair of aligned bearing bushings; a pair of circular discs, each provided with a centrally disposed and outwardly extending sleeve adapted to rotate in one of said bearing bushings, said circular discs also provided with a frusto-conical inner face; a tie-rod extending through said sleeves loosely supporting a pair of opposing abrasive discs; means to tighten said tie-rod and means to simultaneously rotate all of said discs.

2,279,673

GRINDING DISK

Alfred H. Graenser, Detroit, Mich., assignor of one-half to Delmar E. Meyer, Detroit, Mich.

Application May 25, 1940, Serial No. 337,141
2 Claims. (Cl. 51—197)

1. A grinding disk assembly comprising a head,

a rubber cushion, secured to a face of said head, a highly flexible thin metal disk overlying said cushion, means for securing the disk to the head with the cushion interposed therebetween, said means comprising a headed stud engaging said head, said disk having a countersunk portion for



the reception of the head on the stud, said disk being normally flat and having a peripheral flange reinforcing the peripheral portion thereof against distortion from its normally flat condition, and abrasive particles secured to said disk by cement capable of being dissolved in water after it has become set.

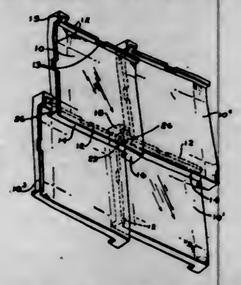
2,279,674

ROOFING UNIT AND ASSEMBLY THEREOF

David E. Gray, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York

Application October 19, 1940, Serial No. 361,969

11 Claims. (Cl. 108—10)



1. As an article of manufacture, a roofing tile in the shape of a parallelogram comprising a generally flat body portion, upstanding flanges bounding two adjacent sides of said body portion and downwardly extending flanges of similar character bounding the remaining two sides of said body portion, said body portion being so warped that the tops of said upwardly extending flanges at their point of intersection lie substantially in the same plane as diagonally located corners of the body portion.

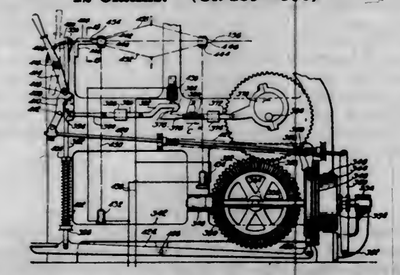
2,279,675

PROTECTOR MECHANISM FOR LOOMS

Alfred S. Gutman, Lawrence, Mass.

Application March 30, 1940, Serial No. 326,893

12 Claims. (Cl. 139—336)



1. In combination with a loom having a shedding motion: a warp and float stop motion: said stop motion comprising photo-electric means for detecting the inside of the open shed; a stopping mechanism associated with said photo-electric means; said photo-electric means comprising electric circuits including a photo-electric element, a source of light arranged to project a beam upon said photo-electric element, and electric means for actuating said stopping mechanism; said source of light and said photo-electric element being arranged in such a way as to direct the path of the beam through the open shed; said photo-electric means becoming effective to render active said stopping mechanism when the beam is interrupted by warp yarn in its path; and timing means acting in timed relation with the changing of the shed to prevent the photo-electric means from becoming effective when the shed is substantially closed.

2,279,676

HYDROSTATICALLY OPERATED SETTING TOOL

Merida L. Hart, Chickasha, Okla., assignor to Lane-Wells Company, Los Angeles, Calif., a corporation of Delaware

Application January 10, 1941, Serial No. 373,902

7 Claims. (Cl. 166—10)



1. A setting tool for well devices, comprising: a cylinder; a piston dividing the cylinder into an atmospheric pressure chamber and a well fluid chamber, said piston and cylinder being operatively connected with a well device; means defining a passage from said well fluid chamber to the exterior of said setting tool; means initially closing said passage; and means for opening said closing means whereby the hydrostatic head of fluid may be exerted against said piston.

2,279,677

CONNECTOR FOR ELECTRICAL CONDUCTORS

Walter A. Heinrich, Richmond Heights, Mo., assignor to James R. Kearney Corporation, St. Louis, Mo., a corporation of Missouri

Application October 11, 1940, Serial No. 360,695

6 Claims. (Cl. 173—324)



4. A connector for electrical conductors comprising a hollow sleeve adapted to receive within its interior an end portion of an electrical conductor and adapted to be compressed by force applied thereto onto said end portion of said electrical conductor so as to be fixedly secured thereto, a unitary member disposed within said sleeve in such manner that the wall of said member is interposed between the wall of said sleeve and the outer surface of an electrical conductor inserted into the hollow sleeve, said member being formed from frangible material so that force applied to said sleeve to compress it onto the end portion of an electrical conductor disposed within the sleeve will break said member into pieces which will serve as keys that aid in securing said sleeve to the end portion of the electrical conductor, and means comprising an element located at an end of said sleeve against which said member abuts so as to prevent outward movement of said member with respect to the sleeve at the end of the sleeve at which said means is located.

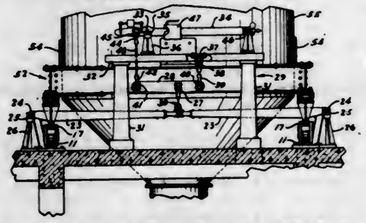
2,279,678

WEIGHING SCALE

Halvor O. Hem, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey

Application September 7, 1939, Serial No. 293,791

9 Claims. (Cl. 265—71)



1. In a device of the class described, in combination, load receiving mechanism, load counterbalancing mechanism operatively connected thereto, said load receiving mechanism comprising load supporting levers, a load receiver, a plurality of means for pivotally supporting said load receiver upon said load supporting levers, one of said supporting means being rigid with said load receiver and the other of said supporting means comprising a member rigid with said load supporting means and having a flat surface and a bracket pivotally mounted upon one of said levers and having a cylindrical surface at its upper end adapted for engagement with said flat surface on said member rigid with said load receiver, means for preventing substantial relative displacement of said brackets, said means comprising a pin studded into said bracket pivotally supported upon said lever and a hole in said member rigid with said receiver for the reception of said pin, the diameter of said hole being slightly larger than the diameter of said pin.

2,279,679

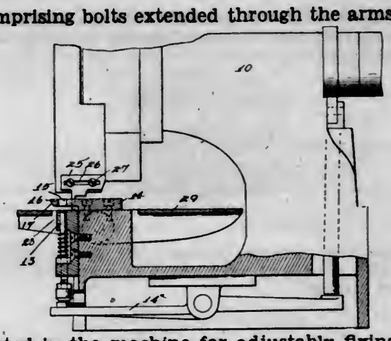
MULTIPLE HEAD STITCHER AND PUNCH

Roy G. Hoffert, Racine, Wis.

Application October 7, 1940, Serial No. 360,105

2 Claims. (Cl. 1—2)

1. The combination with a wire stitching and clinching machine, of a platform to receive and support articles to be stitched, platform supporting arms projected beyond one end of the platform and pivoted to the said machine below the wire clinching device and at the side thereof opposite from the receiving side, said pivotal means comprising bolts extended through the arms and



seated in the machine for adjustably fixing the platform at various angles.

2,279,680

METHOD OF MASKING METAL SHEETS AND THE LIKE

Ferdinand W. Humphner, Oak Park, Ill., assignor to Mid-States Gummed Paper Co., Chicago, Ill., a corporation of Delaware

No Drawing. Application June 23, 1939, Serial No. 280,891

7 Claims. (Cl. 91—68)

5. In a process for removably masking a metal surface and the like, the steps of wetting a tape surfaced with dry animal glue with water containing a tanning agent for said glue, and applying the moistened tape to said surface.

2,279,681

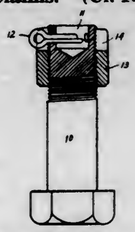
NUT LOCKING DEVICE

Josiah Edward Ilbery, Neutral Bay, New South Wales, Australia

Application November 23, 1940, Serial No. 366,825

In Australia December 8, 1939

2 Claims. (Cl. 151—5)



1. A nut locking device comprising a screw threaded bolt, an axial hole in the screw threaded end thereof, an uneven number of equally spaced unaligned radial holes in the cylindrical wall formed by said axial hole, and a nut having an even number of equally spaced radial slots, the even number of slots being greater than the uneven number of radial holes in the aforesaid cylindrical wall, and a locking pin which passes through a radial slot in the nut aligned with a radial hole in the bolt, said locking pin extending to and terminating in the axial hole in the screw threaded end of the bolt.

2,279,682

SHEARING SHAVER

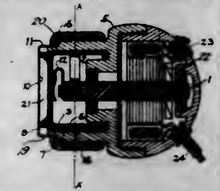
Jesse Atwater Jackson, Hilton Village, Va.

Application March 31, 1938, Serial No. 199,157

23 Claims. (Cl. 30—43)

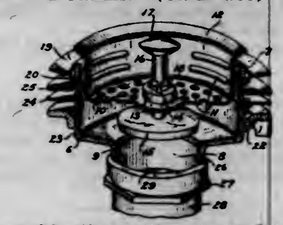
9. In a shearing shaver, two members loosely

nesting and having cooperating cutting edges, motor driven means for producing a rapidly re-



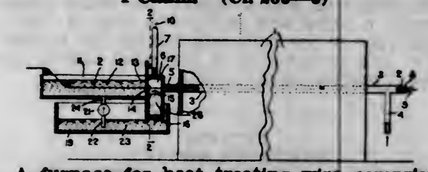
volving line contact between the two members and also relatively slow revolution of the inner nested member.

2,279,683
SINK STRAINER
Julius S. Judell and Jerome P. Goodenough, Shorewood, Wis., assignors to Milwaukee Flush Valve Company, Milwaukee, Wis., a corporation of Wisconsin
Application May 9, 1941, Serial No. 392,644
4 Claims. (Cl. 4—288)



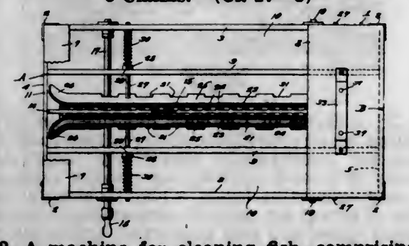
1. In combination with a basin having a bottom provided with an opening and an annular recess disposed between the periphery of said opening and the adjacent upper surface of said bottom, a rigid cup-shaped casing having an integral upper outwardly projecting peripheral rim disposed within said opening beneath said recess, a relatively flexible suspension flange seated within said recess with its top surface approximately flush with said upper basin surface and having an integral inner portion extending downwardly between said opening and the periphery of said casing rim and projecting inwardly beneath the latter, and a clamping ring screw threaded for adjustment along the outer portion of said casing to force said flange within said recess and said casing rim against said inwardly directed lowermost flange portion.

2,279,684
FURNACE FOR HEAT TREATING WIRE
Charles D. Johnson, Worcester, Mass., assignor to Johnson Steel and Wire Company, Inc., Worcester, Mass., a corporation of Massachusetts
Application September 23, 1941, Serial No. 411,979
1 Claim. (Cl. 266—3)



A furnace for heat treating wire comprising a furnace element having a tube extending therethrough through which the wire to be treated is passed, a sealing chamber with which the delivery end of the tube communicates, one side wall of said chamber being made with an upper section and a lower section which are offset with respect to each other, said lower section being situated outside of the upper section and the top edge of the lower section being located below the delivery end of said tube but above the lower edge of the upper section, an oil-containing pan, one end wall of which is formed by the side wall of the chamber opposite to that through which said tube enters, said combined chamber side wall and pan end wall having an aperture in line with said tube and through which the wire passes, means to maintain the oil in the oil pan at a level above said aperture, whereby the oil draining into said chamber through said aperture maintains an oil level in the chamber which is determined by the upper edge of the lower wall section and is above the lower edge of the upper wall section, the lower edge of the upper wall section being submerged in the oil in the chamber, the space between the lower wall section and the upper wall section constituting a spillway for oil accumulating in said chamber, and means to maintain the tube and the portion of the chamber above the oil level therein filled with non-oxidizing gas, said submerged edge of the upper wall section in cooperation with the oil forming a seal for said chamber.

2,279,685
FISH SCRAPER
Nathan Kaplan, Atlanta, Ga.
Application May 6, 1940, Serial No. 333,641
3 Claims. (Cl. 17—3)

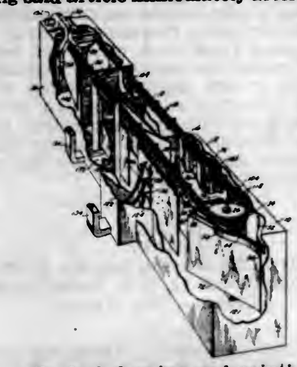


2. A machine for cleaning fish, comprising a support, a fish chute on the support, a slitter carried by the support and projecting into the chute, an eviscerator carried by the support and located behind the slitter and in line therewith, a dorsal fin remover disposed near the top of the chute and near the rear end thereof, and means for mounting the fin remover yieldably on the support, the fin remover being disposed close enough to the eviscerator to hold down a fish whilst the eviscerator is functioning, and means for advancing a fish with respect to the chute, the slitter, the fin remover, and the eviscerator.

2,279,686
METHOD AND APPARATUS FOR CLEANING AND PAINTING
William Lambert Kerlin, Los Angeles, Calif., assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif.
Application June 9, 1941, Serial No. 397,264
25 Claims. (Cl. 91—13)

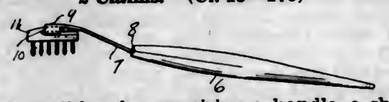
1. In a cleaning and painting apparatus in which an article to be cleaned and painted is carried by a conveyor through a series of successive operations, a plurality of spray means adapted to direct a chemical upon said article for cleaning and etching same, means for wiping

a portion of said chemical from said article, a plurality of spray means adapted to direct a rinsing agent upon said article to completely remove said chemical therefrom, means for wiping said rinsing agent from said article, a plurality of means for painting said article, and means for drying said article immediately after painting.



20. A method of cleaning and painting a piece of material including the steps of pressure spraying a heated chemical upon the material, subjecting the material to a relatively light squeegee action to remove a portion of the chemical therefrom, pressure spraying a heated rinsing agent upon the material to completely remove the chemical therefrom, subjecting the material to a heavier squeegee action to remove the rinsing agent, pressure spraying a paint upon first one side of the material and then another, and subsequently passing the material through an air curtain to dry the paint thereon, all of said operations being performed while the material is moved continuously along as by a conveyor.

2,279,687
TOOTHBRUSH
Charles G. Kerr, San Anselmo, Calif.
Application May 6, 1940, Serial No. 333,582
2 Claims. (Cl. 15—176)

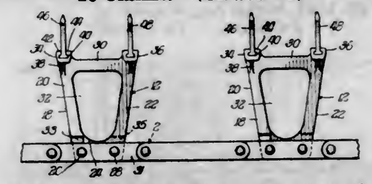


1. A toothbrush comprising a handle, a shank extending from the handle, a holder comprising a transversely extending metal plate provided on said extension and formed at its ends with oppositely disposed inwardly bent hook-like flanges, a brush head adapted to be detachably connected with said holder, said brush head being provided with outwardly extending flanges on its respective sides, said head flanges decreasing in thickness toward one end of the head, whereby said hook-like flanges of the holder are wedgingly engaged thereby.

2,279,688
CORROSION PREVENTIVE
Robert G. Larsen, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application December 24, 1940, Serial No. 371,589
12 Claims. (Cl. 252—34)

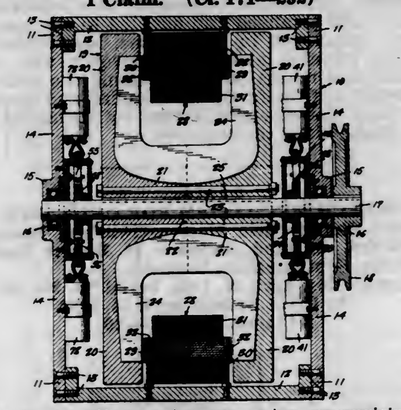
1. A new composition of matter comprising an alkyl maleic acid, the alkyl radicals of which contain at least 12 carbon atoms, and the olefinic double bonds of which are at least partially saturated with an element selected from the group consisting of halogen and sulfur, said acid having a bromine number below 15.

2,279,689
MULTIPART CARRIER BLADE FOR ENDLESS CHAIN CARRIERS AND THE LIKE
Earl A. Lerner, Chicago Heights, Ill., assignor to The American Brake Shoe and Foundry Company, New York, N. Y., a corporation of Delaware
Application October 14, 1940, Serial No. 361,042
16 Claims. (Cl. 263—8)



1. A finger for supporting conveyors of heating furnaces, comprising a carrier blade member, a goods supporting member, one of said members having a groove, and the other of said members having a tongue fitting said groove to interconnect said members.

2,279,690
COMBINATION MOTOR GENERATOR
Z. T. Lindsey, San Saba, Tex.
Application November 7, 1939, Serial No. 303,291
1 Claim. (Cl. 171—252)



A combination motor generator, comprising a stator including spaced parallel frame rings connected at intervals by cross bars, radially disposed spokes connected to the rings, a hub for the spokes of the respective rings, a shaft freely rotatable in the hubs, a rotor including spaced parallel spokes having respective hubs secured together and fixed to the shaft, opposing faces of the rotor spokes being hollowed out, permanent horseshoe magnets receivable in the hollowed out portions of the spokes with their open ends outwardly, and a plurality of combined electromagnets and induction coils mounted on the cross bars, each having a core, the ends of which confront the inner faces of the ends of the legs of the horseshoe magnets as they move in a circular path concentric with said shaft, a primary winding disposed on the core, a secondary winding disposed on the primary winding, means carried

by the ends of the shaft for making and breaking the circuits to the primary winding, and means carried by the shaft for making and breaking the circuits to the secondary winding.

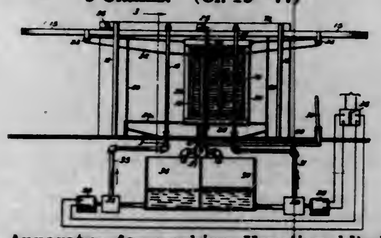
2,279,691

MEANS FOR WASHING VENETIAN BLINDS

Richard G. Long and Walter D. French, Denver, Colo., assignors, by mesne assignments, to The Venetian Blind Laundry Manufacturing and Sales Corporation, Denver, Colo., a corporation of Colorado

Original application October 3, 1938, Serial No. 233,042. Divided and this application November 20, 1939, Serial No. 305,348

5 Claims. (Cl. 15—77)



5. Apparatus for washing Venetian blinds or the like having reversible slats, comprising conveyor means, a hollow frame of an internal size and shape to receive such a blind, on the conveyor for movement thereby, means associated with the conveyor means for forcibly projecting cleansing fluid upon a blind suspended in said frame, a mechanically operated reciprocating scrubber positioned adjacent the conveying means and arranged and adapted to act upon a blind suspended in the frame, slat-reversing means movable along the conveyor with the frame, and means positioned along the path of movement of the frame for engaging and operating said slat-reversing means by movement of the frame along the conveyor.

2,279,692

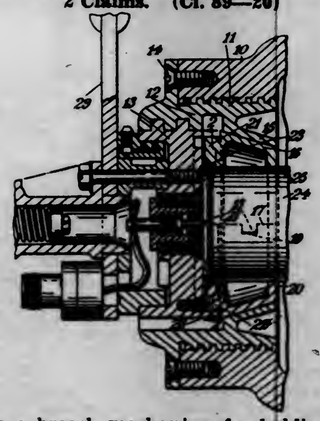
BREECH MECHANISM FOR ORDNANCE

Vivian Charles Eric Marten-Gwilliam, Barton-on-Sea, England, assignor to Hubert Scott-Paine, Southampton, England

Application April 30, 1940, Serial No. 332,548

In Great Britain April 24, 1939

2 Claims. (Cl. 89—20)



1. In a breech mechanism for holding a cartridge in firing position in ordnance of the type including a breech-block adapted to be moved away from firing to loading position, a socket member having a tapered wall serving as a seat, a cartridge holder including a pair of companion segments of arcuate contour forming with each other a ring-like body having a tapered surface conforming to and seating on said tapered wall, each of said segments including a pair of arcuate flanges spaced from each other and extending inwardly toward the axis of said ring-like body, the flanges of one segment forming with the flanges of the other segment a pair of concentrically disposed ring-like supporting elements extending inwardly of said ring-like body and being thereby adapted to embrace and support a cartridge in firing position.

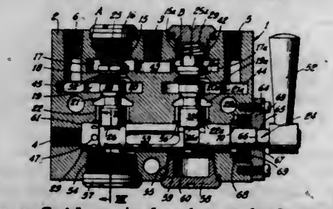
2,279,693

VALVE

Otis C. Martin, Los Angeles, Calif.

Application March 11, 1940, Serial No. 323,376

5 Claims. (Cl. 277—20)



1. In a fluid control valve, a body member, a valve chamber bore extending from one surface of said body member, a pair of valve seats arranged in spaced relation along said bore, fluid passages communicating with said bore one disposed between said surface and said first seat, another disposed between said seats and another beyond said second seat, a pair of valves one for each of said seats disposed in said chamber for longitudinal movement relative to said bore, the uppermost of said valves having an operating stem extending through and projecting beyond the lower of said valves, an operating shaft extending into said body member and disposed for rotation about an axis intersecting the axis of said valve chamber bore, and means on said shaft for independently engaging said lower valve and the stem of said upper valve for independently and selectively lifting said valves from said seats by rotation of said shaft.

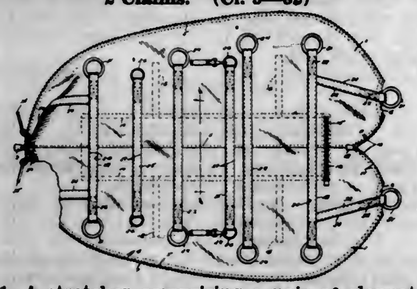
2,279,694

STRETCHER

Martin Martinson, Princeton, Ill., assignor to June H. Piper, Princeton, Ill.

Application March 11, 1941, Serial No. 382,836

2 Claims. (Cl. 5—82)



1. A stretcher comprising a pair of elongated

fabric sections having substantially straight inner side edges stitched together and free outer side edges whereby said sections may be folded with the free edges thereof juxtaposed to enclose a patient therein, said free edges being substantially of whale back contour whereby said sections when folded form an envelope substantially cigar-shaped, means to secure said free edges together comprising a slide fastener, carrying straps having hand grip rings at the ends thereof and stitched to said sections to extend across the same, said straps being spaced apart longitudinally of said sections, a pocket extending along the straight side edges of said sections and having an open end, and a rigid patient-supporting member slidably fitting in said pocket, said pocket being arranged to be enclosed by said sections when folded into envelope form, and said sections having a slit therein extending along the open end of the pocket whereby said member may be slid into the pocket from the outside of the envelope, and a slide fastener for closing said slit.

2,279,695

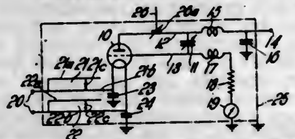
ELECTRICAL DEVICE FOR INDICATING OR DETERMINING DISTANCES

Kenyon Secretan, Haddenham, and James Horsfall, London, England

Application April 29, 1939, Serial No. 270,736

In Great Britain May 3, 1938

2 Claims. (Cl. 250—1)



1. A device of the character described for indicating the distance between one point at which said device is located and a remote point, comprising a space discharge tube having an anode, a cathode and a grid, a resonant circuit connected between said anode and said grid, the resonant frequency of said circuit being in excess of 300 megacycles per second, energising circuits for said anode and cathode to sustain electrical oscillations in said resonant circuit, an antenna coupled to said resonant circuit and exposed to said remote point so as to transmit short wave lengths to said remote point and receive reflected waves therefrom, and thus be subject to variation with variation in distance between the said two points, and an indicating instrument connected in the grid circuit of said space discharge tube, said instrument being responsive to current flowing in said grid circuit but non-responsive to the cyclic variations of such current due to the periodic phase change of the received reflected wave with respect to the transmitted wave as the distance between the two points varies, whereby said instrument indicates continuously and steadily over the entire range of its response the degree of separation of the two points.

2,279,696

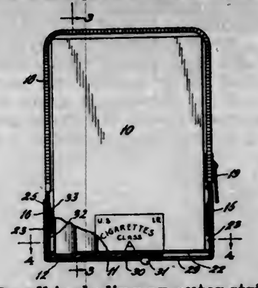
CIGARETTE CASE

William H. St. Thomas, Gloversville, N. Y., assignor to E. J. Wilkins Co., Gloversville, N. Y., a corporation of New York

Application February 26, 1940, Serial No. 320,947

7 Claims. (Cl. 206—41)

1. A cigarette dispensing case made of leather and shaped to receive and hold a package of cigarettes snugly therein, said casing having a continuous slide fastener opening in one end wall and in the adjacent portions of the side walls to permit insertion of the package; a double end wall having a dispensing opening adjacent to one side of the case; a sliding closure of relatively stiff material confined in the double end wall for opening and closing the dispensing opening; said



double end wall including an outer strip of leather forming a continuation of one of the side walls and having bent flanges at opposite edges adhesively secured to the inner faces of the adjacent portions of the front and rear walls; and a flat reinforcing member carried by the side wall adjacent to the dispensing opening and substantially the same width as the side wall.

2,279,697

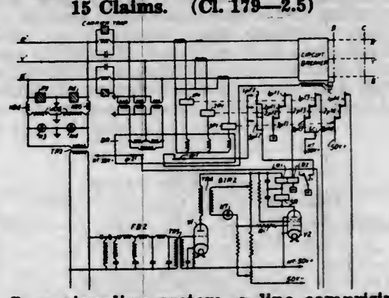
ELECTRICAL SIGNALING SYSTEM

Teseo Bruno Dante Terroni, Liverpool, England, assignor to Associated Telephone & Telegraph Company, Chicago, Ill., a corporation of Delaware

Application February 6, 1939, Serial No. 254,826

In Great Britain February 9, 1938

15 Claims. (Cl. 179—2.5)



1. In a signaling system, a line comprising a plurality of line sections, two oscillators associated with a particular one of said line sections, only one of said oscillators normally impressing alternating current on said particular line section, and means operated responsive to an abnormal condition on a different one of said line sections thereupon to prevent alternating current from being impressed upon said particular line section by said one oscillator during the existence of said condition and to cause the other of said oscillators to impress alternating current on said particular line section for the duration of said condition.

2,279,698

CLOSURE TESTING DEVICE

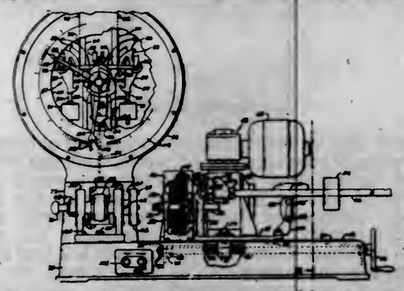
Mark A. Weckerly, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey

Application December 15, 1939, Serial No. 309,310

6 Claims. (Cl. 265—17)

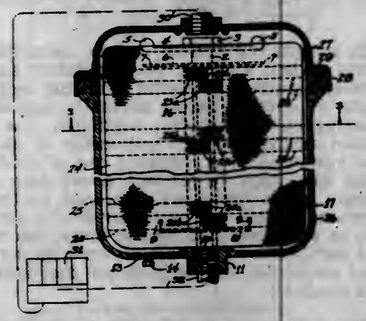
1. In a device of the class described, in com-

bination, a base, force counterbalancing mechanism and force indicating means fixedly mounted upon said base, said force counterbalancing mechanism including a force transmitting lever, a cylindrical shaft fixed in said lever and forming a fulcrum therefor, a chuck fixed on said fulcrum shaft, a second shaft mounted upon said base with its longitudinal axis in coincidence with the longitudinal axis of said cylindrical fulcrum shaft, a fixture secured to said second shaft, said chuck and said fixture cooperating to support an article to be tested, said second shaft being mounted for movement along its longitudinal axis, a relatively narrow faced gear mounted upon said second shaft, a motor, a gear oper-



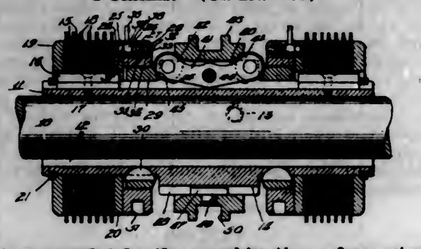
atively connected to said motor, said gear operatively connected to said motor being in meshing engagement with said gear on said second shaft and having a relatively wide face so that said second shaft may be shifted longitudinally and maintain such meshing engagement with said gear operatively connected to said motor, means for applying a predetermined end thrust to said second shaft, said end thrust applying means comprising a pivotally mounted arm, a poise movably mounted upon said arm, a knuckle mounted upon said arm and adapted to engage an end of said second shaft and means for supporting said pivotally mounted arm and knuckle out of engagement with said second shaft.

2,279,699
OIL REFINER PACK
Albert R. White, Glendale, Calif.
Application May 22, 1939, Serial No. 274,953
6 Claims. (Cl. 210—131)



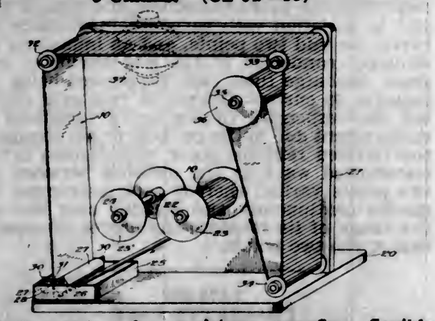
1. An oil refining pack comprising a perforated oil outlet pipe, an oil refining material disposed around the pipe, one end of the pipe being closed and having an oil-deflecting disc integral therewith, the disc having handles that project above the top of the pack to give unobstructed access to the handles, the opposite end of the pipe being threaded and projecting beyond the bottom of the pack, said handles being positioned for use in screwing the threaded pipe portion into a threaded bore.

2,279,700
CLUTCH
Nicholas F. Adamson, Racine, Wis., assignor to Twin Disc Clutch Company, Racine, Wis., a corporation of Wisconsin
Application April 26, 1941, Serial No. 390,576
4 Claims. (Cl. 192—89)



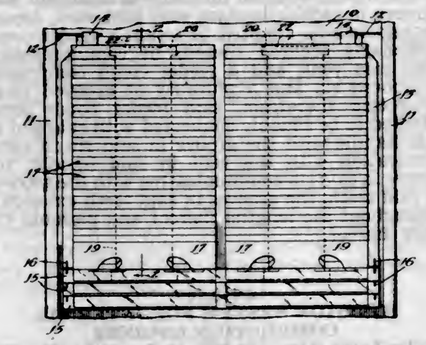
1. In a clutch, the combination of a rotary part, friction members attachable to the part and a separate rotary part, respectively, and adapted for driving engagement with each other, a backing plate and a clamping plate for effecting the engagement of the members, the backing plate acting as abutment against which the friction members are clamped, an adjusting ring for contacting the clamping plate, a floating ring acting as a carrier for the adjusting ring and keyed directly to the first named part, arms swingable inwardly for engagement with the floating ring to clamp the members in driving position, an element connected to each arm, and a collar shiftable in one direction to move the arms to clamp the members and in the opposite direction to engage the elements and positively move the arms to a released position.

2,279,701
APPARATUS FOR TREATING FLEXIBLE VISIBLE INDEX MATERIAL
Charles E. Attwood, Chicago, Ill., assignor to Acme Visible Records, Inc., Chicago, Ill., a corporation of Delaware
Application November 13, 1939, Serial No. 304,087
5 Claims. (Cl. 91—55)



1. Apparatus for moisture proofing flexible visible index strips in continuous sheet form composed of a porous wood veneer body portion faced and backed with paper and scored through the facing paper and wood body portion comprising a receptacle containing a body of moisture proofing solution, a roll submerged in the solution about which a continuous sheet of said strip material is trained with its unsevered backing paper in contact therewith for immersion in the solution, the said roll being of relatively small diameter with respect to the width of said strips, and means comprising a pair of pressure rolls constructed and arranged with respect to said submerged roll for vertically withdrawing said sheet from said solution in planar formation at an acute angle to the plane of its introduction to cause said sheet to be acutely bent around said roll and to expose the longitudinal edges of said strips to said solution while passing therethrough.

2,279,702
CARD INDEX
Charles E. Attwood, Chicago, Ill., assignor to Acme Visible Records, Inc., Chicago, Ill., a corporation of Delaware
Application November 12, 1940, Serial No. 365,249
3 Claims. (Cl. 129—16)

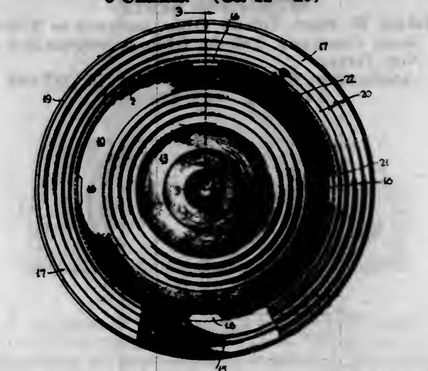


1. In a visible index record filing means, a card holder having a sheath located along substantially its entire lower marginal edge, the upper portion of said card holder being provided with one or more intermediately located slots adjacent to and parallel with the upper edge thereof, and a freely flexible runway for supporting index cards, said runway being of a length substantially equal to the top to bottom length of said card holder, the upper portion of said runway being provided with a centrally located tab adapted to be positioned in said slot and having laterally projecting card abutting shoulder portions of greater end-to-end width than the width of said runway extending therefrom, the lower portion of said runway also being provided with card abutting shoulder portions of substantially the same width as the said upper shoulder portions, said lower shoulder portions being adapted for detachable retention in said sheath.

2,279,703
CATALYTIC CONVERSION OF HYDROCARBONS
William E. Bradley and John L. Volz, Los Angeles, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application January 18, 1938, Serial No. 185,543
13 Claims. (Cl. 196—50)

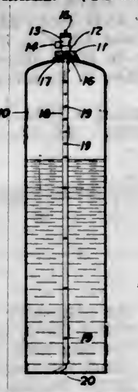
3. A process for the conversion of hydrocarbons comprising subjecting hydrocarbon vapors or gases to the action at elevated temperatures of a non-siliceous catalyst comprising oxide gel from the class of metals whose oxides are difficultly reducible, the gel containing copper oxide and an oxide of a basic metal from groups II and IV of the periodic system.

2,279,704
WHEEL ASSEMBLY AND COVER THEREFOR
Talmon A. Davenport, Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania
Application August 5, 1939, Serial No. 288,487
6 Claims. (Cl. 41—10)



1. In combination with a disc wheel body and rim assembly having spaced circumferentially extending slots adjacent the periphery of said assembly with the rim forming the outer wall of said slots, of an ornamental ring applied to the outside face of said disc and rim assembly and wire spring clips having arcuate base portions conforming in curvature to the curvature of a margin of the ring, and laterally extending locking projections, the base portions being positively locked to said margin of the ring by curled over portions of said margin and the laterally projecting portions having interlocking engagement with the circumferentially spaced sides of the slots to hold the ring in place.

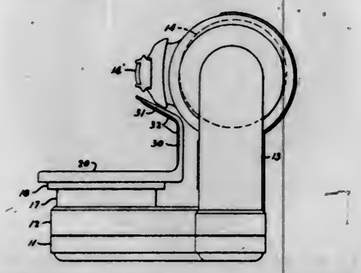
2,279,705
LIQUEFIED GAS ODORIZER AND METHOD OF USING SAME
Walter C. Dayhuff, Whittier, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
Application August 8, 1938, Serial No. 223,708
7 Claims. (Cl. 62—1)



1. In the method of odorizing liquefied fuel

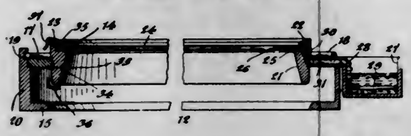
gas such as butane, propane and the like, to which a volatile odorant material has been added in the liquid phase, and which is maintained in liquid phase by being stored under pressure, the steps of releasing the pressure on said liquefied gas so that it will evaporate and contacting said vapor with an extended solid surface wetted by said liquefied gas.

2,279,706
WEIGHING SCALE
Halvor W. Hem, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application May 11, 1940, Serial No. 334,605
2 Claims. (Cl. 265—27)



1. In a device of the class described, in combination, a base, a casing mounted at the rear end of said base, said casing having an overhanging bulging portion adapted to house a cylindrical chart, means for viewing said chart lying along the front of said overhanging bulging portion, a commodity-receiver having a platter portion extending beneath said overhanging bulging portion, the means for viewing said chart lying above said platter portion, said commodity-receiver having a guard rising vertically from the rear end of said platter portion and extending adjacent the forward side of said casing, said guard having a portion extending thence angularly forwardly and upwardly and closely underlying said bulging portion of said casing and the means for viewing said chart, whereby purposeful wedging of commodities between said platter portion and said bulging portion, or the means for viewing said chart, is prevented.

2,279,707
SPINNING RING AND TRAVELER THEREFOR
Harvey E. Herr and Charles Fillinger, Buffalo, N. Y., assignors to Herr Manufacturing Company, Inc., Buffalo, N. Y., a corporation of New York
Application November 9, 1940, Serial No. 365,094
4 Claims. (Cl. 57—120)



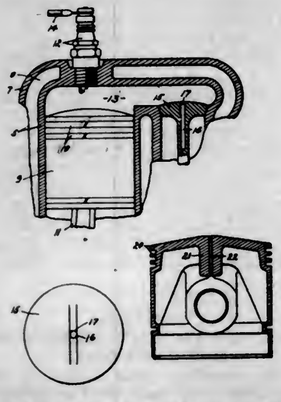
1. A device of the character described, comprising a spinning ring for a traveler having a traveler-engaging bearing face thereon containing a lubricant channel for receiving a wick, the bottom of said channel having a recess therein forming a lubricant-receiving well.

2,279,708
FLUID APPLICATOR
Leslie V. Jakob and Fred Goldfisher, Chicago, Ill., assignors to E. A. Petersen, Chicago, Ill.
Application September 16, 1940, Serial No. 356,975
11 Claims. (Cl. 132—13)



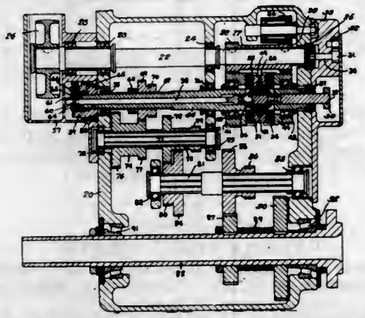
1. An applicator for cosmetic fluids comprising a hollow handle, an elastic diaphragm in sealing contact therewith, means for applying pressure to said diaphragm, a pivoted finger within said hollow handle and adapted to be rotated by said pressure-applying means, a stopper attached to said finger, a vent normally closed by said stopper, spring means adapted normally to maintain said stopper in sealing contact with said vent, means on said handle adapted to retain a feeder comb detachably secured thereto in communication with said vent, and a feeder comb comprising a grooved rib and a plurality of grooved teeth projecting therefrom, said feeder comb being adapted to be slidably connected with said slot in said handle with the groove in said rib in communication with the vent in said handle, the groove in said rib communicating with the grooves in said teeth, the grooves in said teeth extending throughout the lengths thereof and piercing the ends thereof.

2,279,709
IGNITION SYSTEM FOR INTERNAL COMBUSTION ENGINES
Philip Louis Kite and Robert Emert La Mondia, Syracuse, N. Y., assignors of one-third to Eric W. Will, Syracuse, N. Y.
Application October 10, 1940, Serial No. 360,632
12 Claims. (Cl. 123—143)



1. In an Otto cycle internal combustion engine having a cylinder, a movable piston therein, a combustion chamber communicating with said cylinder and means for igniting an explosive charge in said combustion chamber, in combination, an auxiliary independent self-ignition device comprising a separate ignition chamber in open communication with said combustion chamber at all times and heated solely by the products of combustion in said combustion chamber.

2,279,710
SLIDING GEAR TRANSMISSION
Oskar Kylin and Henrik O. Kylin, Cleveland, Ohio, assignors to Bardons and Oliver, Inc., Cleveland, Ohio, a corporation of Ohio
Application April 4, 1939, Serial No. 265,961
25 Claims. (Cl. 82—29)



1. In a speed changing mechanism for sliding gear transmissions, means for preselecting each of several speeds obtainable in said gear transmission, said preselector means including a selector valve; means for distributing fluid under pressure from the valve to slide the gear clusters in said transmission, means for controlling the delivery of fluid under pressure to said valve, and a control member for actuating said control means, said control member comprising a lever mounted for pivotal movement about axes lying in intersecting planes, said pivotal movement about one of said axes being utilized to actuate said control means.

2,279,711
DESULPHURIZATION OF ALKYL PHENOLS
Daniel B. Luten, Jr., and Aldo De Benedictis, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application May 7, 1940, Serial No. 333,834
8 Claims. (Cl. 260—627)

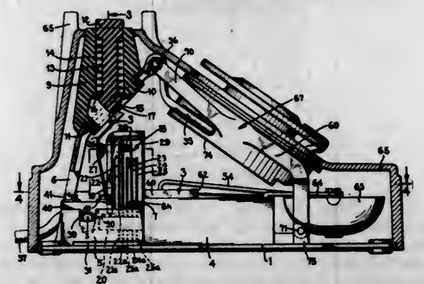
1. In a process for desulphurizing alkyl phenols containing aromatic mercaptans, the steps of treating said alkyl phenols in the liquid state with an amount of free sulphur at a temperature between 60° and 200° C. for a time sufficient to consume a portion of said free sulphur, and fractionally distilling the resulting product to produce a relatively small residue of high sulphur content and a large distillate fraction having a reduced sulphur content, said amount of free sulphur being at least 10% in excess of the stoichiometric amount required to react all of said mercaptans according to the equation:

$$2RSH+S\rightarrow R_2S_2+H_2S$$

2,279,712
MAGNESIUM BASE ALLOY
John C. McDonald, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application December 23, 1940, Serial No. 371,382
3 Claims. (Cl. 75—168)
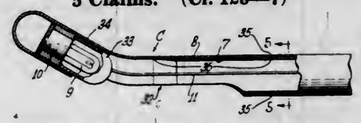
3. A magnesium base alloy containing from 0.4 to 12 per cent of silver, 0.3 to 10 per cent of aluminum, 1 to 15 per cent of cadmium, 0.3 to 6 per cent of zinc, and 0.01 to 1 per cent of manganese and characterized by improved tensile and yield strengths in the cold rolled state as compared to a similar alloy devoid of aluminum.

2,279,713
TELEPHONE SUBSET
Ernest S. McLarn, Manhasset, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application October 29, 1938, Serial No. 237,696
7 Claims. (Cl. 179—100)



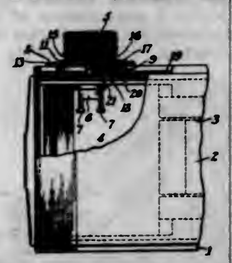
1. A group of components adapted for assembly to form telephone subsets of different types comprising an open sided housing of a first shape having a cradle attached thereto in a first position relative to the open side and having an opening adjacent said cradle, an open sided housing of a second shape having a cradle attached thereto in a second position relative to the open side and having an opening adjacent said cradle, a plurality of components united independently of said housings into a self-supporting assembly shaped to be housed in either of said housings and having a base portion shaped to substantially close the open side thereof, said assembly including a switch operating member and a switch adapted to be actuated by said member, and said assembly also including means for adjustably supporting said member in operative relation to said switch in either of two positions corresponding respectively to the positions of the openings in said first and second types of housing.

2,279,714
CYSTOSCOPE
Wilhelm Meyerhof and Mario Trabulsi, Sao Paulo, Brazil, assignors to the firm Asclepio-Mira Limitada, Sao Paulo, Brazil
Application May 8, 1941, Serial No. 392,472
In Brazil October 26, 1940
5 Claims. (Cl. 128—7)



1. In a cystoscope, an internal assembly comprising an internal tube connected with a tubular beak provided with an aperture for performing an endoscopy; an external assembly comprising an external tube concentrically surrounding said internal tube and having an outer diameter equal to that of said tubular beak; one end of said external tube being accurately set against and aligned with an adjacent end of said tubular beak; said internal assembly being capable of an independent rotating movement relative to said external assembly.

2,279,715
INDICATING DEVICE FOR ROLL FILM CAMERAS
August Nagel, Stuttgart-Degerloch, Germany, assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application August 19, 1939, Serial No. 291,055
In Germany April 28, 1939
1 Claim. (Cl. 116—114)



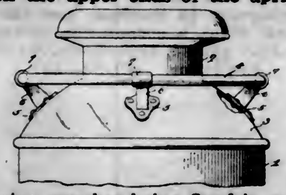
In a film camera, a film winding spindle rotatably mounted in an exterior wall of said camera, a film indicator including a dial plate loosely mounted on said spindle and positioned exteriorly of said wall, said plate having a plurality of film designations formed on the exposed face thereof and adapted to be selectively and manually positioned to indicate the particular type of film in said camera, a plurality of detents formed on the other face of said plate, a film chamber and a door for closing said chamber, a plunger operable through an aperture in said wall under said plate, a spring secured to said wall and engaging said plunger to move the latter toward said plate and into engagement with one of said detents to releasably retain said plate in a position of adjustment, and a portion of said plunger positioned so that a part of said door will substantially engage said portion when said door is in chamber closing position to retain said plunger in engagement with said one detent to lock said plate in adjusted position.

2,279,716
RAIL TREATMENT
Henry W. Nieman, Bethlehem, Pa., assignor to Bethlehem Steel Company, a corporation of Pennsylvania
No Drawing. Application September 8, 1938, Serial No. 228,961
5 Claims. (Cl. 148—21.5)

5. A process of making a hot rolled steel rail, comprising holding said rail at a temperature of 250° F., to the critical range for a time of at least one hour to remove all consequential amounts of hydrogen and prevent cracking of said rail at lower temperatures, said treatment being applied subsequent to the production of the finished hot rolled product and prior to the cooling of the rail below 250° F.

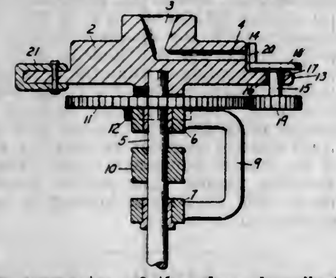
2,279,717
HANDLE FOR CONTAINERS
Kenneth O. Oliver, Colebrook, N. H.
Application December 5, 1938, Serial No. 244,084
1 Claim. (Cl. 220—94)

The combination with a milk can having a cylindrical body, a neck and an annular rounded shouldered portion between the body and neck, a fixed handle on said can comprising a ring shaped gripping member, attaching brackets including plates riveted to the shouldered portion in equi-distantly spaced relation with respect to each other, uprights formed on and rising from the plates at an outward inclination, collars formed on the upper ends of the uprights, and



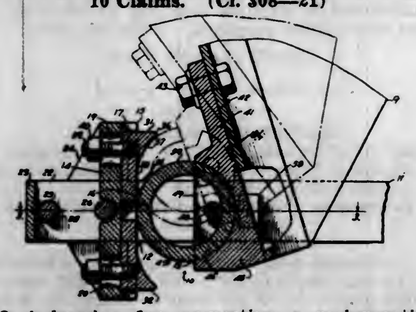
said gripping member being fixed in said collars and extending therethrough for the disposal of said member in spaced encircling relation with respect to said shouldered portion.

2,279,718
STAPLE FIBER CUTTER
Thomas R. O'Malley, Wilmington, Del., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application September 24, 1941, Serial No. 412,127
5 Claims. (Cl. 164—61)



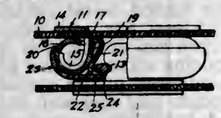
5. In apparatus of the class described, a rotatable disk having an axial channel for entrance of a filamentary bundle and a radial channel connected thereto for discharge of the bundle therefrom, a member extending radially outwardly from said disk, cutting means journaled in said member in substantial alignment with said radial channel for rotation substantially tangentially of said disk, a stationary gear arranged concentrically with respect to said cutting disk and a second gear secured to the journal of said cutting means and in mesh with said stationary gear.

2,279,719
BEARING
Albert N. Porter, Tulsa, Okla.
Application April 24, 1939, Serial No. 269,602
10 Claims. (Cl. 308—21)



3. A bearing for connecting a reciprocating member with an oscillating member including, a bearing member adapted to be fixed to the reciprocating member and having a plane-like contact surface extending in a plane transversely to the direction of reciprocation, a cooperating bearing member adapted to be fixed to the oscillating member and having a socket, a sleeve member in said socket and having a cylindrical contact surface engaging the plane contact surface of the other bearing member, and a pin extending through said sleeve member for movably retaining said sleeve member in the socket.

2,279,720
SNAP RING SOCKET
Daniel I. Reiter, New York, N. Y.
Application April 17, 1941, Serial No. 388,962
10 Claims. (Cl. 24—218)



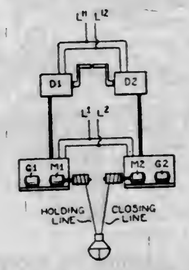
1. In a resilient snap fastener socket, a resilient ring, and a pair of cooperating annular and coaxially arranged ring-holding members, the inner of said members having an inner wall terminating in a lowermost edge part of greater diameter than that of the upper part of said wall, said inner member having an outer annular wall, the outer of said members having a curved outer peripheral part retaining the outer wall of the inner member in place, the outer member having an inner flat part substantially perpendicular to the axes of said members and extending inwardly past the lowermost edge part of the inner member and in contact therewith, the ring being arranged above said flat part and between the flat part and the upper part of the inner wall of the inner member, said walls being in radial spaced relation and of different cross-sectional shapes, the outer wall of the inner member being in contact with the outer member at least at the outer peripheral portion of said flat part to form two thicknesses of material at said peripheral portion.

2,279,721
PROCESS OF PREPARING CYCLOALKANES
Walter Schmidt, Frankfort-on-the-Main-Hochst, Franz Josef Pohl, Hofheim in Taunus, and Otto Nicodemus, Frankfort - on - the - Main - Hochst, Germany, assignors, by mesne assignments, to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application March 11, 1939, Serial No. 261,374. In Germany March 12, 1938
5 Claims. (Cl. 260—666)

4. In the process of preparing aliphatic cyclic hydrocarbons containing three cyclic carbon atoms the step which comprises causing a mixture consisting of zinc and of a compound of the general formula CH_2X_1-CH_2-CHX_2-R wherein X_1 and X_2 stand for a halogen selected from the group consisting of chlorine and bromine, and R stands for a substituent selected from the group consisting of hydrogen and methyl, to react in the presence of formamide.

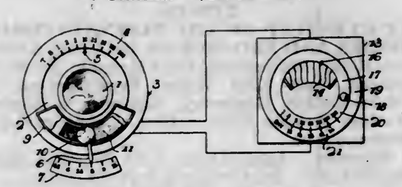
2,279,722
GRAB HOIST
John Russell Taylor, Bedford, England, assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application March 18, 1939, Serial No. 262,651
In Great Britain March 21, 1938
5 Claims. (Cl. 212—81)

1. The combination with a grab bucket having a holding line and a closing line, of a motor for operating each of said lines, separate generators for supplying current to the armatures of said motors, separate controllers for controlling the fields of said generators to selectively control the direction of operation of said motors and also the speed thereof, said controllers being operable to subject the armatures of said motors to the full voltage of their associated generators for operation of said motors at corre-



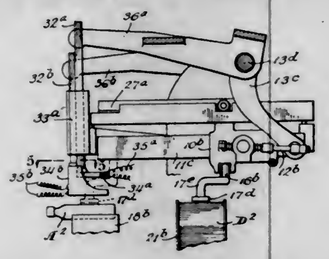
sponding speeds in hoisting or lowering direction with the weight of the grab bucket shared by said holding and closing lines and means associated with said controllers for selectively controlling the field strength of said motors while subjecting the armatures of said motors to the full voltage of their associated generators to provide for operation of said motors in hoisting or in lowering direction at corresponding speeds with substantially the entire weight of the grab bucket supported by said holding line.

2,279,723
PHOTOELECTRIC EXPOSURE DETERMINING APPARATUS
Hans Ferdinand Tönnies, Hamburg-Grossflottbek, Germany
Application December 9, 1938, Serial No. 244,859
In Germany September 4, 1937
7 Claims. (Cl. 95—10)



1. In a photoelectric system for use in determining exposure conditions for a camera, a photoelectric cell, a housing for said cell, means including said housing restricting the acceptance angle of said cell to a predetermined fixed value, an instrument connected to said cell and having a movable pointer and adjustable indicator mark, means movable with respect to a scale graduated in values of an exposure factor for adjusting said indicator mark, and means for adjustably attenuating the light rays incident upon the entire cell area and approaching the same over said acceptance angle; said attenuating means comprising an elongated translucent photometric wedge of progressively varying density, means supporting said cell and said wedge for relative movement, and means movable with respect to a scale graduated in values of another exposure factor for effecting relative movement of said cell and photometric wedge.

2,279,724
ART OF APPLYING LABELS AND MACHINE FOR APPLYING LABELS
George W. von Hofe, Bound Brook, N. J., assignor to New Jersey Machine Corporation, Hoboken, N. J., a corporation of New Jersey
Application February 23, 1939, Serial No. 257,812
12 Claims. (Cl. 216—55)



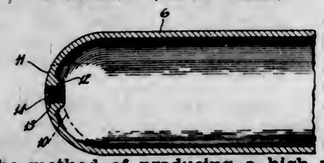
1. In a labeling machine for applying thermoplastic coated labels under heat, the combination of article supporting means at the label applying station of said machine for positioning articles to be labeled in label receiving position thereat, a source of label supply, means for advancing the terminal label to a label transfer station, means for supporting said label thereat in accurate label receiving relation to a suction transfer head, means including said suction head operating in definite relation to the article on said article supporting means for removing each label from said supporting means at said transfer station without disturbing its relation to said suction head and transferring said label to said label applying station, said suction head depositing said label in contact with said article thereat in its intended position thereon with predetermined registry, and means for applying heat directly to the label to effect the application thereof to said article.

2,279,725
VAT DYESTUFF OF THE DIBENZANTHRONE SERIES AND PROCESS OF MAKING SAME
Hugo Wolff, Mannheim, Emil Krauch, Neckargemuend, and Karl Wilke, Frankfort-on-the-Main-Hochst, Germany, assignors to General Aniline & Film Corporation, a corporation of Delaware
No Drawing. Application June 28, 1939, Serial No. 281,662. In Germany July 13, 1938
3 Claims. (Cl. 260—354)

2. A process of producing from grey to black vat dyestuffs of the dibenzanthrone series which comprises treating 2,2'-dibenzanthronyl dissolved in a concentrated sulfuric acid with about 2 molecular proportions of nitric acid at low temperatures so as to introduce two nitro groups into the molecule, reducing the dinitro compound thus obtained to the corresponding diamino-2,2'-dibenzanthronyl and fusing the latter with alkali metal hydroxide at between 190° and 205° C. in the presence of methanol.

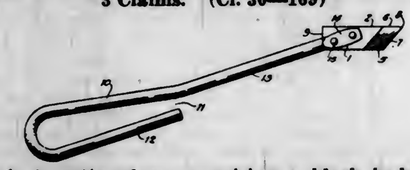
3. The vat dyestuff of the dibenzanthrone series obtained according to the process of claim 2 which dissolves in trichlorbenzene giving a blue-green coloration and exhibits absorption maxima at wave lengths of 500mμ and 580mμ and which dyes and prints vegetable fibres in the same shades of from grey to black, which dyeings and prints scarcely change their shades of color when exposed to water.

2,279,726
METHOD OF MAKING LIGHTWEIGHT CYLINDERS
Scott E. Allen, Verona, N. J., assignor to C-O-Two Fire Equipment Company, Newark, N. J., a corporation of Delaware
Application October 26, 1939, Serial No. 301,350
3 Claims. (Cl. 29—148.2)



1. The method of producing a high pressure cylindrical thin walled metal container from a tube open at at least one end, which comprises closing-in an open end of the tube by a spinning operation producing an end wall of greater thickness than the side wall of the container, drilling an orifice through said end wall axially of said container, and machining excess thickness of metal from an annular zone on the inner face of the end wall surrounding said orifice and spaced from the axis of said container at greater radial distance than the length of the radius of said orifice.

2,279,727
PUTTY PLOW
Perle Jay Anderson, Portland, N. Y.
Application November 24, 1939, Serial No. 305,951
3 Claims. (Cl. 30—169)

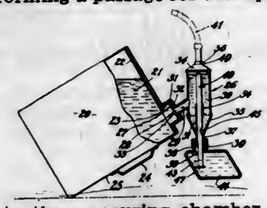


1. A putty plow comprising a block body of rectangular cross-section and having parallel planar top and bottom surfaces and parallel planar opposite side surfaces and having a transverse rear end surface, and having a forward end surface substantially in a plane at an acute dihedral angle with the bottom surface and with one side surface and at an obtuse dihedral angle with the top surface and the other side surface, thereby providing a forward point and cutting edges rearwardly inclined from the point, the cutting edges being respectively at the forward terminations of the bottom surface and said one side surface, and a handle secured to the top surface and extending rearwardly at an angle to the bottom surface and at an angle to the side surfaces.

2,279,728
MEASURING SPOUT
Walter Ballard, New York, N. Y.
Application July 15, 1939, Serial No. 284,763
13 Claims. (Cl. 221—98)

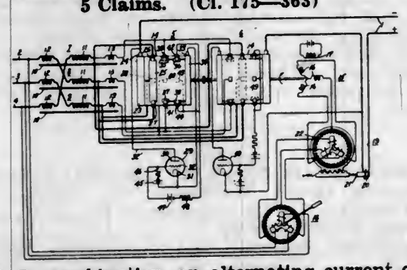
1. A measuring spout for a receptacle containing a liquid and being provided with an outlet spout comprising: a base having a passage, a casing for receiving a certain quantity of liquid from the receptacle and a measuring chamber adapted to receive predetermined quantities of liquid, a pipe-like member rigidly connecting said base with the casing and forming a conduit between the passage of the base and the casing, said casing surrounding an open tube, which is inclined to the base and relatively adjustable to the

casing and the lower end of which extends into said measuring chamber, said tube having one or more holes in the upper part of its circumference inside of the casing near said measuring chamber forming a passage for the liquid through



the tube to the measuring chamber and determining by their position the amount of liquid to be measured in said measuring chamber, the upper open end of said tube forming a discharge for the measured liquid.

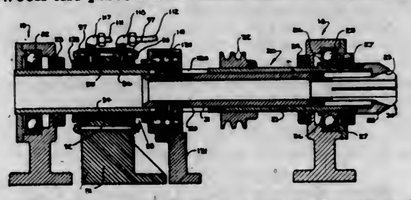
2,279,729
ELECTRIC CONVERTING SYSTEM
Burnice D. Bedford, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 30, 1937, Serial No. 139,893
5 Claims. (Cl. 175—363)



5. In combination, an alternating current circuit comprising a plurality of phase conductors, a direct current circuit, a switching means operated in electrical synchronism with the voltage of said alternating current circuit for effecting transfer of energy between said alternating current circuit and said direct current circuit and comprising a plurality of cooperating main contacts and a plurality of cooperating control contacts, a plurality of saturable inductive devices interposed between said alternating current circuit and said switching device and each comprising a core member, a main winding connected in series relation with a predetermined different phase conductor, a control winding connected in series relation with another phase conductor for controlling the magnitude and the rate of change of current through the associated main winding at the beginning and at the end of the normal conducting intervals and an auxiliary winding for providing a commutating voltage, an electric valve means connected across said main contacts of said switching device to establish and interrupt the flow of current through said main windings, and a circuit for said electric valve means controlled by said control contacts for controlling the conductivity of said electric valve means.

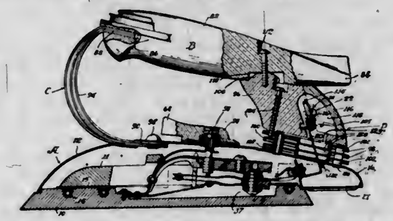
2,279,730
WOOD-TURNING MACHINE
Ivan H. Bradley, Stratford, Conn.
Application March 6, 1939, Serial No. 260,177
5 Claims. (Cl. 279—4)

1. In combination, an elongated hollow rotary spindle, a chuck at the forward end of said spindle, means mounting said spindle and chuck for rotary movement, said chuck movable longitudinally of the spindle in one direction to grip the work and in the opposite direction to release the work, a tubular piston about said spindle in spaced relation to said chuck, said piston movable longitudinally of the spindle, said spindle rotatable in said piston, a stationary cylinder about said piston, driving means on the spindle between the piston and chuck and through which



the spindle and chuck may be rotated, means for supplying fluid under pressure alternately to opposite sides of the piston to shift it longitudinally of the spindle, means connecting the piston with the chuck for alternately opening and closing the latter as the piston is moved by said fluid under pressure, and said connecting means including a rotatable part on the spindle and a non-rotatable part on the piston whereby the spindle is rotated independent of the piston and the latter is not rotated in the cylinder.

2,279,731
ELECTRIC IRON CONSTRUCTION
Gwilym S. Braun, Strasburg, Ohio, assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Missouri
Application March 28, 1938, Serial No. 198,544
6 Claims. (Cl. 38—90)

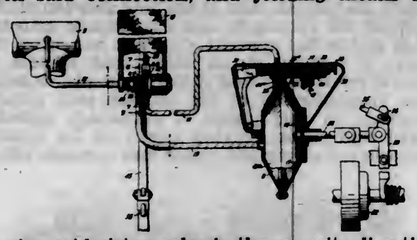


1. In an appliance having a base comprising a base plate and a casing attached thereto, the combination of a handle member including a grip, a bracket for connecting one end of the grip to the base comprising a plurality of arcuate strips of different diameter lying one within another and joined at the ends only and connections from the ends of the bracket respectively to said grip and said base to form insulating connections for dissipating heat from the base before it reaches the grip.

2,279,732
POWER DEVICE
Charles A. Brewer, Noroton Heights, Conn., assignor of one-half to Philip J. Kury, Arverne, N. Y.
Application August 7, 1934, Serial No. 738,826
7 Claims. (Cl. 192—91)

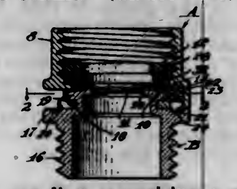
6. In apparatus of the class described, a fluid pressure power unit having an atmospheric connection, a piston valve for controlling the flow of air through said connection, inertia means

for moving said piston valve in one direction to open said connection, and yielding means for



moving said piston valve in the opposite direction to close said connection.

2,279,733
HOSE COUPLING
Harry Norman Cross, Los Angeles, Calif.
Application November 22, 1939, Serial No. 305,670
3 Claims. (Cl. 285—143)

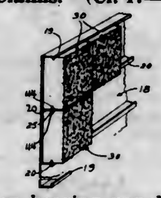


1. A hose coupling comprising a pair of coupling members one of which is formed with an elongated circumferentially extending slot opening to one end thereof the ends of which connect with the ends of an inwardly extending U-shaped channel one margin of which consists of a correspondingly shaped inwardly extending flange, a continuous annular flange in said slotted member forming the other margin of said slot having an inclined face opposing said slot, a frusto-conical flexible and resilient ring seated on the inclined faces of said flange having its inner marginal portion protruding inwardly from said flange, a nipple formed on the other coupling member protruding from the end thereof and having a continuous out-turned marginal flange formed for positioning in the U-shaped channel in the other member, said nipple also being formed with an inturned marginal flange arranged with its inner margin in outwardly spaced relation to the inner margin of said ring when said coupling members are operatively interconnected, and a crowding ring movable axially in said slotted member for engaging said flexible ring and said inclined face of the flange in said slotted member.

2,279,734
ORGANIC MATERIALS AND METHOD OF MAKING SAME
Emil Edward Dreger, Summit, N. J., John Ross, New York, N. Y., and Hans George Kirschenbauer, Ridgefield, N. J., assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
No Drawing. Application April 13, 1939, Serial No. 267,608
19 Claims. (Cl. 260—417)

1. The process of preparing stable unsaturated aliphatic acids and derivatives which comprises heating an organic compound having a halogen-substituted aliphatic carboxylic radical containing at least eight carbon atoms with an alkaline material, to a temperature not lower than the melting point but not above the decomposition temperature of the substantially anhydrous soap products in an inert atmosphere and in the substantial absence of air and liquid water.

2,279,735
VEGETATION-BEARING DISPLAY SURFACE AND SYSTEM
Elmer Hovenden Gates, Arlington, Va., assignor to Noel Wright Gates, Arlington, Va.
Application May 27, 1938, Serial No. 210,498
6 Claims. (Cl. 47—33)



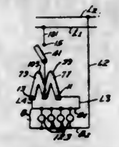
1. A vegetation-bearing panel structure comprising a combination, upwardly projecting display mounting surface having detached and slidably suspended thereupon in tegular arrangement, a series of vegetation supporting contiguous facing units provided with reticular faces covered with growing vegetation and capable of presenting an unbroken surface of vegetation over said mounting surface, said units being recessed at their lower inner edge to form thereby an irrigating channel in said series of facing units.

2,279,736
WELT HOOK FOR KNITTING MACHINES
Kenneth Howie, Norristown, Pa., assignor to Wildman Mfg. Co., Norristown, Pa., a corporation of Pennsylvania
Application September 28, 1939, Serial No. 296,992
4 Claims. (Cl. 66—96)



1. A welt turning implement comprising a stem portion and a rigid returned portion lying in a fixed position approximately parallel to but spaced from the stem portion to form a permanently open hook, said stem portion having an eye therein on the same side thereof with the returned portion and located along the stem spaced from the returned portion to receive the end of a knitting needle, said returned portion having a pointed end, and said stem portion increasing in width away from the end of the implement where the returned portion merges into the stem portion so that the stem portion is wider at its part underlying said pointed end than any part of the returned portion.

2,279,737
CIRCUIT BREAKER PROTECTIVE SYSTEM
Oliver S. Jennings, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 27, 1937, Serial No. 133,410
Renewed November 15, 1939
20 Claims. (Cl. 175—294)



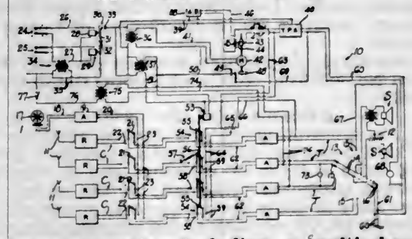
1. In an electrical distribution system, a main, a branch having at least one load device connected thereto, circuit interrupting means electrically connected to said main and electrically connected at a plurality of different points to one conductor of said branch for feeding current to said load device, said points being on opposite sides of the point of connection of said load device to said branch.

2,279,738
BUCKLE
Israel Joseph Katz, New York, N. Y.
Application March 27, 1941, Serial No. 385,429
2 Claims. (Cl. 24—178)



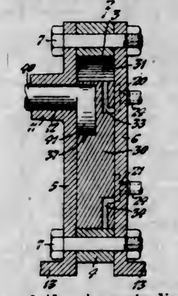
1. A buckle comprising a substantially D-shaped main member and a tongue member, the D-shaped main member comprising a substantially U-shaped portion and a substantially straight portion, the tongue member being pivoted to the said straight portion, one end of the straight portion being integral with an end of the U-shaped portion and the other end free, the free end of the said U-shaped portion being provided with latching means engaging the free end of the said straight portion, the said D-shaped main member being resilient to a degree to permit its free ends to be sprung free of each other.

2,279,739
COMBINATION MULTICHANNEL RADIO RECEIVING AND SIGNALING SYSTEM
Eli M. Lurie, Laureiton, Long Island, N. Y.
Application November 10, 1941, Serial No. 418,542
24 Claims. (Cl. 179—5)



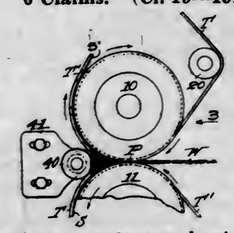
1. An apparatus including a multi-channel radio receiving system comprising a radio receiving apparatus for each channel and a plurality of speaker units selectively connected to the different receiving apparatus, a hand operated multi contact switching means located wholly at each speaker unit and having main individual contacts for the different receiving apparatus and having auxiliary contacts free of the different receiving apparatus and being connected to the speaker units as the switch means are selectively operated to disconnect the receiving apparatus, a signaling system connected to said auxiliary contacts to energize the speaker units whose switch means are disconnected from the different receiving apparatus, means connecting the signaling system to the said channels to energize the speaker units whose switch means are selectively connected to said channels, and means coacting with the signaling system and the different receiving apparatus to cause the signals from the signaling system to be operatively transmitted to the channels for energizing speaker units without interference by said receiving apparatus.

2,279,740
PUMP, COMPRESSOR, OR THE LIKE
George A. Matteson, Jr., Saunderstown, R. I.
Application June 19, 1939, Serial No. 279,924
16 Claims. (Cl. 103—145)



1. In a device of the type indicated, a casing having a chamber therein with parallel side walls, a disk having its opposite flat faces engaging the parallel side walls of the chamber, and means for reciprocating and oscillating the disk in the chamber, said casing having inlet and outlet ports and said disk having a port communicating with the chamber and cooperating with the valve ports in the casing during its reciprocation and oscillation.

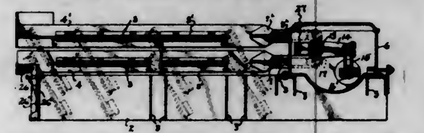
2,279,741
TAPE CONDENSER
Harry Moss, Whitinsville, Mass., assignor to Whitin Machine Works, Whitinsville, Mass., a corporation of Massachusetts
Application December 23, 1940, Serial No. 371,289
6 Claims. (Cl. 19—151)



1. In a tape condenser having alternately ribbed and grooved dividing rolls and having a plurality of tapes passing between said rolls and

crossing each other in alternately diverging paths as they leave said rolls, that improvement which comprises a cylindrical roll mounted closely adjacent the dividing point between said dividing rolls and coacting with both sets of tapes, said cylindrical roll being rotationally driven to present a cylindrical surface engaging and moving with the set of tapes diverging in one path and adjacent but slightly clearing and moving opposite to the set of tapes diverging in the other path, whereby the tapes of said second set are left rotationally free by said roll but are limited in outward displacement thereby.

2,279,742
BALANCED SCREENING STRUCTURE
Gustave A. Overstrom and George Overstrom, Eagle Rock, and Conrad Overstrom, Altadena, Calif.
Application May 21, 1940, Serial No. 336,346
13 Claims. (Cl. 209—315)



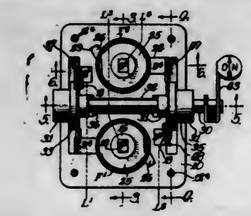
1. In a mechanism of the type described, the combination including a base, a pair of screen boxes positioned one over the other, a plurality of transversely flexible spring legs attached at their respective ends to the base and in sets respectively to the screen boxes, whereby the screen boxes are supported horizontally from the base, a rock shaft supported on the base, means for oscillating said rock shaft, and positive rigid driving connections between the rock shaft and the screen boxes at their feed ends, said driving connections lying in parallel planes and stressing the spring legs so that they do not undergo stress reversal in operation of the mechanism.

2,279,743
PROCESS FOR THE PRODUCTION OF MOLDABLE ARTIFICIAL MASSES
Fritz Pollak, Yonkers, N. Y.
No Drawing. Application March 7, 1940, Serial No. 322,700
8 Claims. (Cl. 18—55)

1. Process for the production of moldable artificial masses comprising mixing practically water-free solutions of methylol ureas with casein in proportions to form a moist sticky powder, pressing the still moist product into a homogeneous body at a temperature between 70° to 120° C. and hardening the same at a temperature not exceeding 120° C.

2,279,744
FUSE BOX AND ENTRANCE SWITCH
Burton E. Shaw, Bristol, Ind., assignor to Penn Electric Switch Co., Goshen, Ind., a corporation of Iowa
Application July 15, 1940, Serial No. 345,583
14 Claims. (Cl. 200—114)

1. In a fuse box and entrance switch, a two-part body of insulating material, contact brackets of right angle and Z cross section between said parts, one of said parts having a recess in its bottom and openings through which vertical legs of some of said brackets extend from the top of said part into said recess, the horizontal legs of said brackets being countersunk in the top surface of said part, the other of said parts retaining said brackets in position, fuse sockets retained in position by some of said brackets, said other part having bores to encircle said fuse sockets, a switch shaft journalled between said



parts, switch arms operatively connected with said switch shaft and adapted to open a circuit between vertical legs of said brackets when said switch shaft is in one position and to close said circuit when said switch shaft is in another position.

2,279,745
POLYAMIDES
Halsey B. Stevenson, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 18, 1939, Serial No. 300,086
7 Claims. (Cl. 260—78)

1. A polyamide capable of being formed into fibers showing by characteristic X-ray patterns orientation along the fiber axis, said polyamide comprising the reaction product of a polyamide-forming composition providing reactants having amino groups and carbonamide-forming groups complementary thereto, the amide-forming groups in at least one reactant being separated by a chain of atoms to which is attached a lateral substituent comprising an hydroxyl group attached to a carbon atom, said hydroxyl group being selected from the class consisting of alcoholic and phenolic hydroxyl groups and being removed from each amino group in said reactant by at least three atoms and from each amide-forming group complementary to said amino group by at least five atoms, said reactants containing only two amide-forming groups and being free from functional groups other than said amide-forming groups and said hydroxyl group.

2,279,746
ALTERNATING ELECTRIC CURRENT RECTIFIER OF THE SELENIUM TYPE
Leslie Ernest Thompson and Alexander Jenkins, London, England, assignors, by mesne assignments, to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania
No Drawing. Application October 26, 1940, Serial No. 363,010. In Great Britain October 13, 1939
2 Claims. (Cl. 175—366)

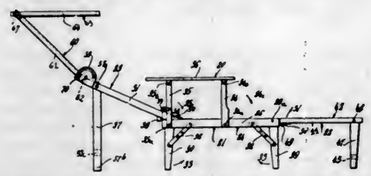
1. An alternating electric current rectifier of the kind described comprising a base plate provided with a layer of selenium and a counter electrode composed principally of tin, cadmium or an alloy of these metals sprayed or otherwise deposited on the surface of the selenium layer or coating in which the counter electrode contains a relatively small quantity of thallium added to the metal or alloy of which the counter electrode is composed, for the purpose specified.

2,279,747
WEEDING TOOL
Howard D. Brandeberry, Toledo, Ohio
Application September 16, 1939, Serial No. 295,175
9 Claims. (Cl. 97—63)



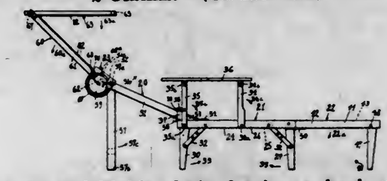
1. A weeding tool of the character described, comprising a handle, a plurality of tines arranged side by side, adjacent tines contacting at one end thereof and disposed in flared spaced relationship at the opposite ends thereof, said group of tines being associated with the handle at the contacting ends, the tines being curved between their ends and creating substantially elongated V-shaped spaces therebetween terminating in the curved portions thereof, the inner ends of said spaces being wedge shaped, the wedge shaped portions of the spaces being of a length falling within the range of three-quarters of an inch to one and one-half inches, the angles of said wedge shaped spaces falling within the range of from five degrees to twenty degrees.

2,279,748
COLLAPSIBLE EASY CHAIR
Frank Deak, New York, N. Y.
Application March 28, 1939, Serial No. 264,548
4 Claims. (Cl. 155—162)



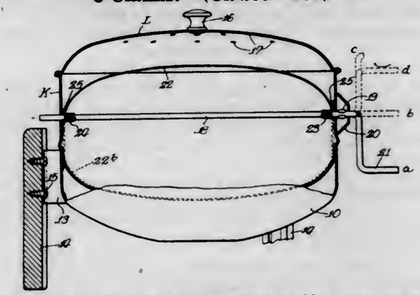
2. In a folding easy chair and lounge, a seat proper section and a back rest section, a longitudinal frame member in each side of each of said two sections, a releasable hinged connection between the respective longitudinal frame members in said two sections, a leg member pivoted at the upper end of each of the longitudinal frame members in said back rest, adapted to be set at various angles in relation thereto and having a free lower end whereby to rest on the ground and support said back rest in a less inclined nearer to the horizontal position when it is desired to form a lounge, and means at the rear end of said seat frame adapted to removably receive the free ends of the respective leg members for said back rest when it is desired to set said back rest in a more inclined position nearer to the vertical.

2,279,749
FOLDABLE CHAIR CANOPY
Frank Deak, New York, N. Y.
Application April 20, 1939, Serial No. 268,907
2 Claims. (Cl. 135—7.1)



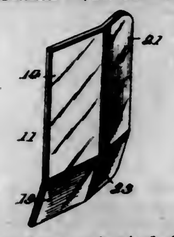
1. In a foldable chair, having a back rest, a sun shade formed of two sections, a lower section pivotedly secured at the top of the back rest and adapted to be placed in various positions from being forwardly inclined over said back rest to being folded rearwardly entirely under and along said back rest, an upper section for said sun shade adapted to be placed into various positions with respect to said lower section from being substantially co-planar therewith to being turned forwardly to various inclined positions and finally being entirely folded substantially over and along said lower section, means to secure said lower section in any of its positions, and means between said upper and said lower sections yieldingly and automatically securing said two sections together in any of their said relative positions.

2,279,750
CORN POPPER
William E. Gundelfinger, St. Louis, Mo., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Missouri
Application July 15, 1940, Serial No. 345,573
3 Claims. (Cl. 259—109)



1. In a corn popper construction, a popper kettle circular in horizontal section, having a substantially cylindrical vertical wall, a horizontally arranged crank shaft journalled through opposite portions of said cylindrical wall on a diameter of said kettle, the portion of said kettle below said crankshaft constituting a dished bottom of shallower than semicircular vertical section, and an agitator element on said shaft comprising a normally U-shaped spring wire having the terminal ends of its arms mounted on said crank shaft only by wrapping therearound, whereby the shaft may be freely rotated in one direction, and said wrappings will frictionally grip the crankshaft when it is rotated in the other direction, said wrappings being located on said crank shaft adjacent said wall of said kettle and one of them being wrapped tighter than the other, the length of said wire between said wrappings being substantially half the internal circumference of said kettle on a horizontal plane through said crank shaft.

2,279,751
REAR VIEW MIRROR
Ernest Elwood Hensley, Verona, Va.
Application September 14, 1940, Serial No. 356,750
1 Claim. (Cl. 88—87)



A rear view mirror adapted for outside use in motor vehicle cabs, comprising an elongated central reflecting portion, adapted to be carried in substantially a vertical plane, and imaging the field for a considerable distance forwardly of said mirror, up to but short of the field just forward of said mirror, a bottom apron reflecting portion and a side apron reflecting portion, attached respectively to the bottom and one of the side edges of the central portion, and respectively perpendicularly of the major axis of the mirror, and parallel to said major axis, and both apron portions bent back at slight angles so that their respective reflecting surfaces extend rearwardly away from the plane of the elongated portion, each said reflecting portion producing a separate, planar image.

2,279,752
POLYMERIC MATERIAL
Ralph A. Jacobson, Landenberg, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 25, 1939, Serial No. 296,493
6 Claims. (Cl. 260—78)

1. A resinous polyamide which yields continuous solid films and which comprises the product obtained by heating to polymerizing temperature a composition consisting essentially of bifunctional polyamide-forming material which provides complementary amide-forming groups and which comprises a reactant containing a ketone group in the chain of atoms separating its amide-forming groups.

2,279,753
SWITCH
Rudolph Knopp, St. Louis, Mo., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Missouri
Application March 25, 1940, Serial No. 325,819
5 Claims. (Cl. 200—4)

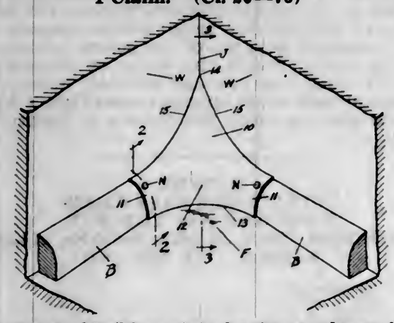


1. In a switch structure, a two-part casing, a slidable member in one part of said casing, a loose partition member between said parts of said casing, means in said other part to retain said partition member in position for confining said slidable member to a predetermined sliding position in said one part of said casing, a plurality of stationary circuit closing elements in said casing, a movable circuit closing element cooperating with said stationary circuit closing elements and carried by said slidable member, and circuit breaking means operated by movement of said slidable member to break the circuit through said switch prior to disengagement of said movable circuit closing element from any one of said stationary circuit closing elements.

2,279,754
SURFACE COATING
William Krumbhaar, New York, N. Y.
No Drawing. Application March 29, 1940, Serial No. 326,787
17 Claims. (Cl. 106—252)

1. A surface coating composition adapted to give a porcelain-like, non-porous and tack-free surface containing at least 50% of a soft drying oil selected from the group consisting of linseed, perilla, soya bean and sunflower oils in the non-volatile portion thereof, and a soap selected from the alkali earth metals, magnesium and manganese soaps of oleic and linoleic acids, in an amount more than 1% based on the amount of the soft oil but insufficient to produce deep longitudinal folds in the dried coating.

2,279,755
CORNER BLOCKING PLATE
William W. Lemen and Abner P. Offutt, Glendale, Calif.
Application February 18, 1941, Serial No. 379,476
1 Claim. (Cl. 20—76)
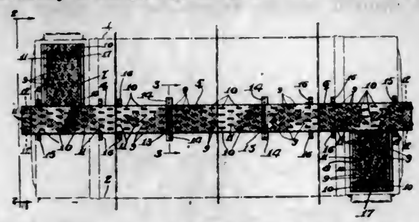


A corner blocking plate having a planar base edge from which end edges extend substantially right angular and above which end edges the remainder of the plate has side edges converging to a sharp tip at the top of the major vertical axis of the whole plate, said plate being curvilinear both vertically and horizontally throughout its whole area and being generally concave on its outer surface except for exteriorly convex and interiorly concave moulding engaging portions extending inwardly from said end edges, said moulding engaging portions having openings for fastenings, the converging side edges extending right angularly for contact with right angular members which form the corner in which the plate is adapted to fit.

2,279,756
RUNNING BOARD FOR CARS
Leon J. Lieberman, Philadelphia, Pa., assignor to Alan Wood Steel Company, Conshohocken, Pa., a corporation of Pennsylvania
Application July 1, 1940, Serial No. 343,339
8 Claims. (Cl. 105—457)

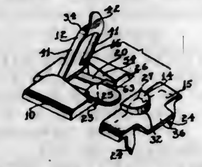
1. A car roof running board comprising rigid

rolled steel plate containing oblongish slots of a size suitable for use as hand holds in staggered relation to one another and transversely reenforced by overlapping elongated bosses, said slots



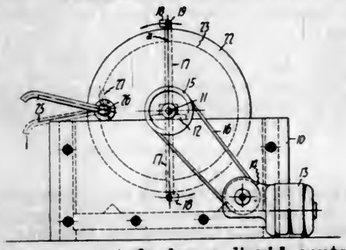
having their lengths extending longitudinally of the running board and the lengths of said bosses extending diagonally relatively to the lengths of said slots.

2,279,757
FASTENING DEVICE FOR SUITCASES
Francis W. Magnuson, Worcester, Mass., assignor to Worcester Tool & Stamping Co. Inc., Worcester, Mass., a corporation of Massachusetts
Application April 30, 1941, Serial No. 391,037
5 Claims. (Cl. 292—228)



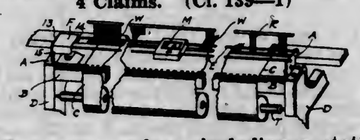
1. A fastening device comprising a spring pressed hasp and an associated catch, a pressed metal cup shaped shell having a peripheral flange and spaced walls whose edges lie substantially in a plane, means for pivotally mounting the hasp on the shell between said walls, a substantially U-shaped spring having spaced arms which is mounted between the walls and engages the hasp to hold it in its end positions and a fastening device secured to the shell which passes between the arms of the spring and serves to secure the shell to a suit-case with said edges engaging the same.

2,279,758
REAGENT FEEDER
Louis D. Mills, Palo Alto, Calif., assignor to The Merrill Company, San Francisco, Calif., a corporation of California
Application July 25, 1938, Serial No. 221,161
6 Claims. (Cl. 221—97)



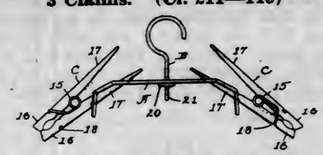
1. In a reagent feeder, a liquid container, a cup, means forming a rotatable mounting for the cup whereby the cup moves in a circular path, the circular path being such that the cup periodically dips into liquid in the container, means forming a flow dividing trough underlying the upper portion of the path of movement of the cup, the trough being sloped downwardly in opposite directions from an uppermost intermediate point, and means for removing liquid reagent flowing down said trough at one side of said medial point, the portion of said trough at the other side of said medial point providing a return path to said container.

2,279,759
LOOM INSPECTION DEVICE
James H. Moore, Lawrence, Mass.
Application November 19, 1940, Serial No. 366,275
4 Claims. (Cl. 139—1)



4. For use on a loom including a stationary frame with side frame members and a breast beam between them, together with a reed; the combination of two supports one attachable to the frame on each side proximate the breast beam and the reed, each including vertically adjustable members to support a plurality of cables; a plurality of elastic cables which extend between the adjustable members of the supports; and a frame slidable on the cables and including a magnifying glass.

2,279,760
HANGER
Charles F. Pease, Pasadena, Calif.
Application February 10, 1941, Serial No. 378,275
3 Claims. (Cl. 211—113)



1. A hanger of the class described, consisting of a main supporting arm having a downwardly extending flexed end and a pair of aligned socket openings through the body and flexed portions thereof, a spring clip having an arm member insertable through said socket openings to support the clip in outwardly and downwardly slanting position, and an upwardly extending hanger support from the body portion of said main supporting arm, said main supporting arm and the arm member of said clip having an interlocking catch cooperating with said socket openings to retain the clip through said socket openings.

2,279,761
NURSE'S UNIFORM
Abraham Schatten, New York, N. Y.
Application September 18, 1940, Serial No. 357,221
2 Claims. (Cl. 2—93)

1. The herein described garment including a waist section having back and side members and sleeves and the waist section having armholes to which the sleeves are connected only at the front thereof, and a plurality of gussets inside of the garment each comprising an elastic panel and a non-elastic panel, said panels being interconnected along upright lines and each gusset being con-

nected to the shoulder portions of the garment, the non elastic panel being connected to the sleeve at its rear edge for freedom of movement of the sleeve with the gusset yielding, the elastic panel being continuously connected to the back remote from the armhole of the adjacent sleeve, said back having inside wall members extending



from the edge of the armholes and being connected to the bottom portions of the gussets at a point below the armholes, said bottom portions of the gussets being free of the back at points intermediate of the armhole and of the connection of the elastic panel with the back to thus permit upward movement of the sleeves without distortion of the back and side members.

2,279,762

ELECTRICAL INSULATING MATERIAL

Thomas Robertson Scott and Archibald Alan New, London, England, assignors to International Standard Electric Corporation, New York, N. Y.

No Drawing. Application December 20, 1938, Serial No. 246,827. In Great Britain December 24, 1937

1 Claim. (Cl. 260—41)

An insulating material for use as a dielectric of a condenser comprising a binding agent primarily consisting of polymerised styrene and an admixture of powdered particles of lead chloride, embedded in said binding agent in an amount not exceeding 25% by volume and not sufficient to raise the power factor of the resulting material above .0025, but sufficient to raise the permittivity of the resulting material by at least 10%.

2,279,763

ALLOY

Cecil Spencer Sivil, Roselle, N. J., assignor to Baker & Company, Inc., Newark, N. J., a corporation of New Jersey

No Drawing. Application July 9, 1941, Serial No. 401,652

6 Claims. (Cl. 75—172)

1. An alloy of ten (10) percent to eighty (80) percent platinum, twelve (12) percent to ninety (90) percent palladium, and one (1) percent to fifteen (15) percent ruthenium.

2,279,764

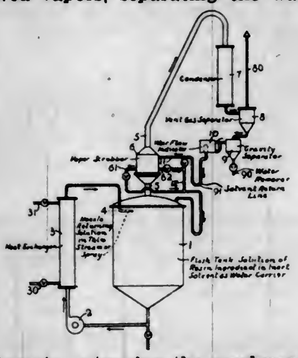
PROCESS FOR DISTILLATION

Sidney C. Smith, Philadelphia, Pa., and Russell T. Van Ness, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application July 6, 1939, Serial No. 283,084

2 Claims. (Cl. 260—22)

1. A process for making resins which comprises placing in a flash tank a solvent composed of a volatile organic liquid water-immiscible water carrier and a reaction mixture obtained from reactants comprising polyhydric alcohol and polycarboxylic acid, forcing the liquid contents from the flash tank and then into vapor space of the flash tank above the reaction mixture in a stream providing a large surface area, heating said liquid contents exteriorly of the flash tank before its passage therein in said stream, condensing the evolved vapors, separating the water from



the condensate, returning the condensed solvent to the flash tank, and scrubbing the vapors evolved from the flash tank by passing them to the condenser in contact with and counter-current to the condensed solvent flowing from the condenser to the flash tank.

2,279,765

PREPARATION OF UREA NITRATE

Charles P. Spaeth, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 9, 1940, Serial No. 365,021

3 Claims. (Cl. 260—553)

3. A method for preparing urea nitrate, which comprises reacting urea with nitric acid in a liquid medium taken from the group consisting of acetic acid and propionic acid.

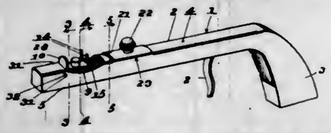
2,279,766

MARBLE SHOOTER

Lucius B. Truesdell, De Land, Fla.

Application June 6, 1940, Serial No. 339,161

3 Claims. (Cl. 124—16)



1. A marble shooter comprising a simulated barrel of inverted U form including a bridge having a marble opening and a slot, an outstanding ledge at one extremity of the opening, retainer fingers operable in the opening in confronting relationship to the ledge and having slide means located over the slot under the bridge, and friction means over the slot on top of the bridge, having connection with the slide means and constituting a thumb-piece for the manipulation of the retainer fingers.

2,279,767

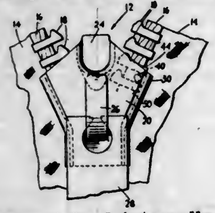
LOCKING SLIDER FOR SLIDE FASTENERS

Frederick Ulrich, Bayonne, N. J., assignor to Conmar Products Corporation, Bayonne, N. J., a corporation of New Jersey

Application August 1, 1940, Serial No. 349,273

3 Claims. (Cl. 24—205.5)

3. A locking slider for a slide fastener, said slider comprising front and back walls connected by a neck portion, flanges formed integrally with said walls, and one or more solid locking projections formed integrally with said walls and flanges, each said projection being located at an upper corner of the slider, its outer end being joined integrally with the adjacent flange and its



outer side being joined integrally with the adjacent wall, said projection diverging to a relatively broad base where it joins the wall, and diverging to a relatively broad end where it joins the flange, said projection sloping from flange to wall to permit passage of the slide fastener during the normal operation of said slide fastener.

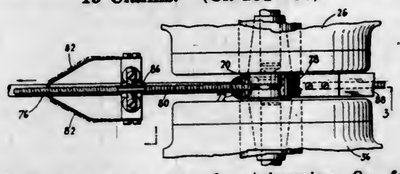
2,279,768

MANUFACTURE OF SLIDE FASTENERS

Frederick Ulrich, Bayonne, N. J., assignor to Conmar Products Corporation, Bayonne, N. J., a corporation of New Jersey

Application December 20, 1940, Serial No. 370,947

15 Claims. (Cl. 164—60)



15. Rotary apparatus for trimming fin from the notched side edges of a slide fastener wire having recesses along one face, said apparatus comprising a cutting roll and a support roll, the cutting roll having a deep groove the opposed face walls of which have radially extending serrations for bearing radially against and shearing the fin transversely of the wire toward the support roll, the support roll acting as means for supporting the wire against the shearing action of the cutting roll, said support roll additionally having projections adapted to be received in the recesses of the wire, said projections being large enough in the direction of feed of the wire to control the feed, but being much smaller than the recesses in a direction transverse of the wire in order to permit the wire to self-adjustably locate itself relative to the serrations of the cutting roll, means to rotate said support roll, a scrap or waste discharge tube disposed immediately adjacent one of the rolls, an air-blast tube having a nozzle directed into said waste tube, wiper means to wipe scrap or fin from the cutting roll, and vibrator means for vibrating the trimmed wire in order to dislodge any cut scrap or fin tending to cling thereto.

2,279,769

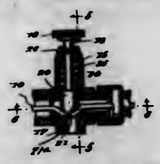
PIPE CLEANER CLAMP

Earl Von Bon Horst and Le Roy M. Strang, San Clemente, Calif.

Application September 27, 1940, Serial No. 358,718

2 Claims. (Cl. 24—263)

1. In an apparatus of the class described, the combination of a tube provided with an upstanding casing and a depending sleeve on said tube registering with and below said casing, a plunger-bolt extending into said casing and provided on its inner end with a head, said head



provided with means including the legs straddling a flexible element, cut-away portions on said head for receiving portions of a flexible element, and said legs being adapted to extend into said sleeve, when said head is pressing upon a flexible element.

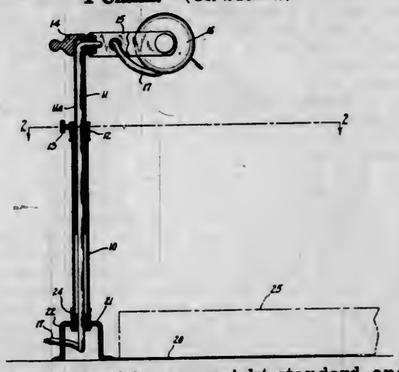
2,279,770

LAMP

Harry I. Albright, Akron, Ohio

Application December 4, 1940, Serial No. 368,476

1 Claim. (Cl. 240—2)



A lamp comprising an upright standard, and a base for said standard, said base consisting of a one-piece structure of relatively thin sheet metal of oblong shape formed with a transverse raised portion adjacent one end thereof extending from one lateral margin to the other, said raised portion being open at its ends and comprising a flat horizontal top wall upon which said standard is centrally mounted and flat front and rear walls disposed perpendicular to the main body of the base, said front wall constituting a stop means adapted to align papers and the like that may rest on the base, said raised portion constituting a tunnel for a conductor cord which extends into said standard.

2,279,771

COATING PROCESS

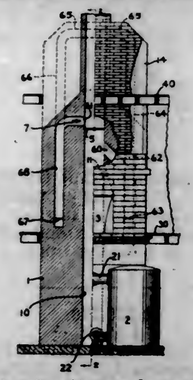
Paul Rolland Austin, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 19, 1940, Serial No. 330,615

6 Claims. (Cl. 91—70)

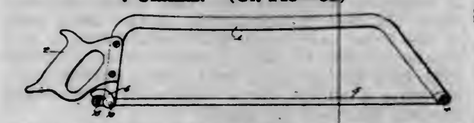
1. In the manufacture of coated wire, the process which comprises depositing on the wire a deposit of finely divided crystalline synthetic linear polymeric amide by passing the wire through a water suspension of said polymeric amide, fusing the deposit of polymeric amide and quenching the fused coating.

2,279,772
HEATING INSTALLATION
Carl P. Benson, Bremerton, Wash.
Application May 29, 1939, Serial No. 276,381
5 Claims. (Cl. 237—51)



1. Means for heating a house having a main floor and a lower floor, including, in combination, a chimney having a vertical flue extending through the floors, a fireplace at the main floor level having a smoke outlet connecting to the vertical flue, a heater at the lower floor level having a burner intermittently ignitable and extinguishable, and having a smoke outlet connected to the vertical flue, the chimney also having a by-pass flue leading from the vertical flue, and back into the same at a higher point, and affording an alternative path for the hot gases which is disposed principally at the main floor level, a damper in the vertical flue, above the fireplace smoke connection and between the inlet to and the outlet from the by-pass flue, movable to close off the vertical flue, to direct hot gases from either the heater or the fireplace through the by-pass flue, and a second damper in the by-pass flue, whereby if both said dampers are closed, to direct hot gases from the heater through the fireplace smoke outlet and into the room.

2,279,773
MEAT SAW
Arthur N. Blum, Philadelphia, Pa.
Application November 4, 1939, Serial No. 302,918
7 Claims. (Cl. 145—33)



3. A saw comprising a substantially U-shaped frame, and means for securing a saw blade under tension between the extremities of said frame, said means comprising a tensioning member movably mounted at one extremity of the frame, an element rotatably adjustable in said member on an axis transverse to the plane of the saw, coupling means for retaining said element in adjusted position and releasable to permit of said adjustment by axial movement of the element in said member, releasable means for normally restraining the element against said axial movement, and a blade-retaining pin eccentrically positioned on said element, the rotational adjustability of said element affording variation in the effective distance of the pin from the remote extremity of the frame.

2,279,774
COATED PRODUCT
Elmer K. Bolton, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 29, 1938, Serial No. 232,468
5 Claims. (Cl. 91—70)

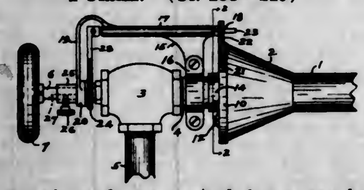
1. A process for obtaining products having an adherent coating of vitreous-like tough enamel resistant to chipping and mechanical shock, said process comprising applying to a hard, heat stable base material a deposit which comprises finely divided crystalline synthetic linear polymeric amide, and heating the base material to a temperature which causes rapid fusion of said deposit to a liquid but which is below the temperature of destructive thermal decomposition of the polymeric amide during said fusion, and then rapidly cooling the fused coating by quenching.

2,279,775
BRAKE FOR REVOLVING MACHINE PARTS
Hermann Brandenburg, Berlin-Tempelhof, and Karl Bienert, Berlin, Germany, assignors to Mergenthaler Linotype Company, Brooklyn, N. Y., a company of New York
Application June 27, 1940, Serial No. 342,634
In Germany November 27, 1939
12 Claims. (Cl. 188—110)



1. A self-acting brake comprising a revolving member having at least one cam-shaped recess in its braking surface, an expanding member engaging said revolving member and a spreader member between said revolving member and said expanding member engaging in said braking surface recess to control the expansion of said expanding member.

2,279,776
FUEL MIXER
Robert A. Carroll, West Finley, Pa.
Application November 22, 1940, Serial No. 366,631
1 Claim. (Cl. 158—119)



In an air and gas control for a gas burner, the combination of a fuel mixing tube including an end wall formed with air passages, a shutter connected with said end wall adjustable for regulating said air pasages, a gas valve including a grooved valve stem adjustable for regulating the gas supply, a valve pipe connecting said valve with said tube, a segment gear fixed to the peripheral top of said shutter, a driving gear including an elongated hub revolubly

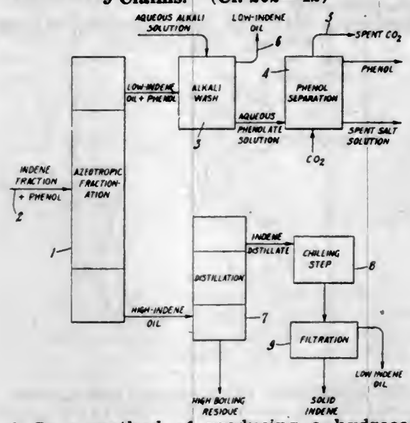
mounted on said stem, a screw engaged in said hub and being adjustable to project said screw into the groove of said stem to prevent the rotation of said driving gear on said stem while allowing longitudinal shiftable movement of said stem through said hub, said screw being further adjustable to retract said screw from said groove to allow the rotation of said stem in said hub, a supporting frame secured to said valve pipe and including a bearing ring engaging said hub for maintaining said driving gear in position with respect to said valve, an operating shaft revolubly supported in said frame, a pinion carried at one end of said shaft and meshing with said segment gear, a quadrant gear fixed to the other end of said shaft and meshing with said driving gear, said pinion being adjustable on said shaft to disengage said pinion from said segment gear.

2,279,777
GARMENT HANGER
Anna L. Dean, Cleveland, Ohio
Substituted for abandoned application Serial No. 530,859, April 17, 1931. This application October 6, 1939, Serial No. 298,312
2 Claims. (Cl. 223—88)



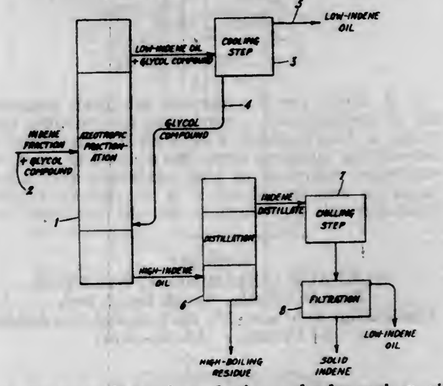
1. A garment hanger comprising a wire bent to form a triangle having a base and two equal short sides, suspending means at the upper corner of the triangle opposite the base, the wire being bent at each of the other corners to provide inturned portions lying parallel to the base and hooks at the corners of the hanger, the distance from the base of the hanger to the top of a hook being less than the width of a trousers belt loop, and the waistband of a pair of trousers supported by said hooks projecting above the base of the hanger, as and for the purpose set forth.

2,279,778
PROCESS FOR THE PRODUCTION OF HIGH-INDENE-CONTENT HYDROCARBON OILS
Karl H. Engel, West Englewood, N. J., assignor, by mesne assignments, to Allied Chemical & Dye Corporation, a corporation of New York
Application May 15, 1940, Serial No. 335,329
9 Claims. (Cl. 202—42)



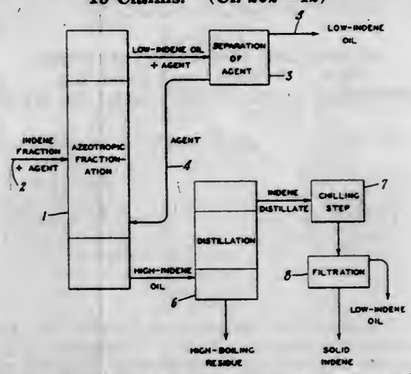
1. In a method of producing a hydrocarbon oil of high indene content from a hydrocarbon oil of relatively low indene content, the step which comprises distilling the hydrocarbon oil of relatively low indene content in the presence of an amount of phenol sufficient to form an azeotrope with non-indene components of the oil.

2,279,779
PROCESS FOR THE PRODUCTION OF HIGH-INDENE-CONTENT HYDROCARBON OILS
Karl H. Engel, West Englewood, N. J., assignor, by mesne assignments, to Allied Chemical & Dye Corporation, a corporation of New York
Application May 15, 1940, Serial No. 335,330
13 Claims. (Cl. 202—42)



1. In a method of producing a hydrocarbon oil of high indene content from a hydrocarbon oil of relatively low indene content, the step which comprises distilling the hydrocarbon oil of relatively low indene content in the presence of a glycol compound capable of forming azeotropes with the non-indene oils contained in the hydrocarbon oil.

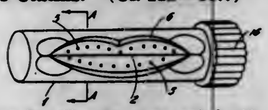
2,279,780
PROCESS FOR THE PRODUCTION OF HIGH-INDENE-CONTENT HYDROCARBON OILS
Karl H. Engel, West Englewood, N. J., assignor, by mesne assignments, to Allied Chemical & Dye Corporation, a corporation of New York
Application May 15, 1940, Serial No. 335,331
15 Claims. (Cl. 202—42)



1. In a method of producing a hydrocarbon oil of high indene content from a hydrocarbon oil of relatively low indene content, the step which comprises distilling the hydrocarbon oil

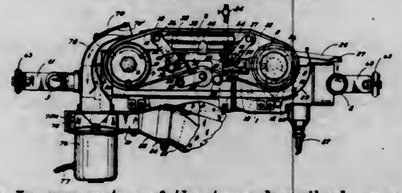
of relatively low indene content in the presence of an organic compound having a radical selected from the group consisting of the hydroxyl, the carboxyl, the amino, and the pyridinic nitrogen radicals and capable of forming azeotropes with indene and the non-indene oils contained in the hydrocarbon oil.

2,279,781
CONTAINER AND DISTRIBUTOR OF LIP STAINING MATERIAL
James Fogarty, Randwick, New South Wales, Australia
Application February 24, 1941, Serial No. 380,269
3 Claims. (Cl. 132—88.7)



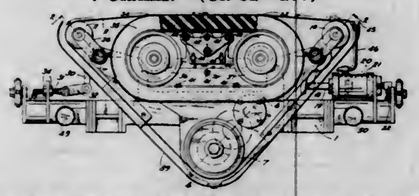
1. A device for the purpose set forth comprising in combination a container for staining material, a longitudinal V-shaped fin produced by converging surfaces upon the outside thereof, an expresser mounted in the container and a cap upon its end by which it is turned to express fluid through perforations in said surfaces.

2,279,782
SURFACE FINISHING APPARATUS
Bert F. Fowler, South Bend, Ind.
Application February 12, 1938, Serial No. 190,254
14 Claims. (Cl. 51—170)



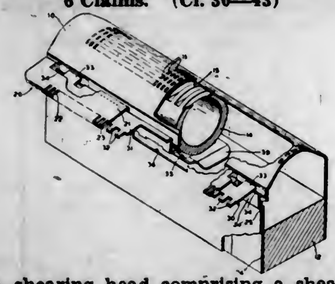
4. In apparatus of the type described, an endless belt, spaced pulleys for supporting said belt, means for driving one of said pulleys to operate said belt, a shoe member adapted to engage and support the inner side of said belt, means for normally maintaining said belt out of contact with said shoe while operating, and means operable while said belt is operating to move said belt into and out of contact with said shoe.

2,279,783
SURFACING FINISHING MACHINE
Bert F. Fowler, South Bend, Ind.
Application August 23, 1939, Serial No. 291,536
7 Claims. (Cl. 51—170)



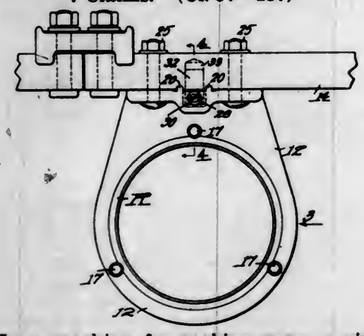
2. In a surface finishing device of the type described, a frame, a motor mounted on said frame, a drive pulley, a supporting shaft for said pulley rigidly carried by said frame, operating connections between said motor and drive pulley, a pair of spaced auxiliary belt supporting idler pulleys, a supporting member for one of said auxiliary pulleys, means for adjusting the position of said supporting member, a second supporting member for the other of said auxiliary pulleys freely pivoted on said frame, fluid pressure actuated means for moving said second supporting member relative to said frame whereby said other auxiliary pulley may be moved away from said one of said auxiliary pulleys, said drive pulley and auxiliary pulleys being arranged in triangular relation, a surface finishing belt encompassing said pulleys with its inner surface engaging each of said pulleys and having its working portion disposed between said auxiliary pulleys, and resilient independent means for backing up said finishing belt between said auxiliary pulleys.

2,279,784
MECHANICAL RAZOR
George G. Going, Stamford, Conn., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application January 20, 1940, Serial No. 314,752
6 Claims. (Cl. 30—43)



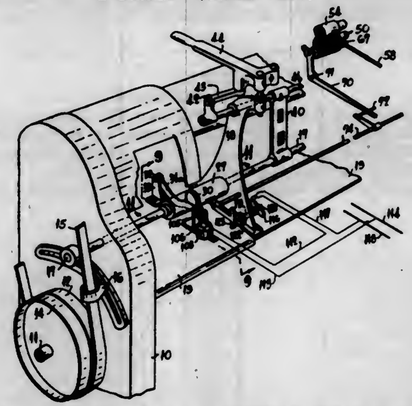
1. A shearing head comprising a shear plate and an associated cutter, an auxiliary shear plate secured to said shear plate, fulcrum means on one of said shear plates, and an auxiliary cutter having means thereon cooperating with said fulcrum means and said first mentioned cutter to urge said cutters into equalized shearing engagement with their respective shear plates.

2,279,785
MEANS FOR VERTICALLY POSITIONING SPINNING OR TWISTER RINGS
Robert Hargreaves and Albert O. Roy, Whitinsville, Mass., assignors to Whitin Machine Works, Whitinsville, Mass., a corporation of Massachusetts
Application March 10, 1941, Serial No. 382,498
7 Claims. (Cl. 57—137)



1. In a machine for making yarn, a ring, a ring rail having an extended vertical supporting surface, a bracket providing a support for said ring and having an extended vertical attaching surface, means to move said bracket vertically relative to said rail, and means to clamp said bracket and rail together with said vertical surfaces abutting and firmly engaging.

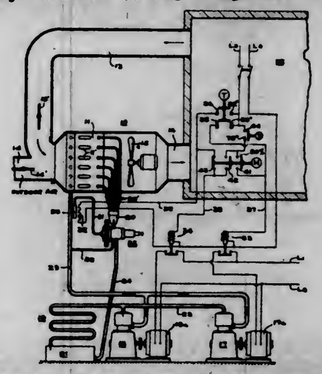
2,279,786
STOP MOTION FOR DRAWING FRAMES
Edwin M. Holt, Cooleemee, N. C., assignor to Whitin Machine Works, Whitinsville, Mass., a corporation of Massachusetts
Application September 27, 1940, Serial No. 358,673
1 Claim. (Cl. 19—167)



In a drawing frame having a main driving shaft provided with tight and loose pulleys and a driving belt and having a longitudinally movable rod to shift said belt, in combination, a cylindrical member mounted on said rod, a coiled compression spring enclosed within said cylindrical member and encircling said rod, a fixed abutment engaged by one end of said spring and the other end of said spring abutting said cylindrical member, said spring normally forcing said rod to shift said belt, in combination, a cylinpulley, and said cylindrical member having a peripheral groove therein, a lever adapted to swing in a plane transverse to the path of movement of said rod and to be engaged in said groove to latch said cylindrical member and rod in a position to hold the belt on the tight pulley, a rotary member onto which a broken sliver passing through the drawing frame is adapted to fall and to become wrapped therearound, and means controlled by radial displacement of said rotary member by the formation of a mass of fiber thereon and effective to remove the lever from the peripheral groove and to thereby allow the compression spring to move the rod longitudinally and to thereby shift the belt from the tight pulley to the loose pulley to stop the drawing frame, and said latter means including an electro-magnet, a connection from said magnet to said lever, and a switch device bodily responsive to the radial displacement of said rotary member.

2,279,787
AIR CONDITIONING APPARATUS
Leroy G. Huggins, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 6, 1937, Serial No. 157,681
9 Claims. (Cl. 62—6)

6. In air cooling and dehumidifying apparatus, the combination of evaporator means, variable capacity compressor means and a condenser connected in a refrigerant circuit, means operable automatically to increase and decrease both the portion of the evaporator means containing liquid refrigerant and the rate of fluid translation (by volume) of the compressor means in



response to increase and decrease, respectively, in temperature of air, and means operable automatically to increase said rate of fluid translation and thereby also the ratio of said rate of fluid translation to the portion of the evaporator means containing liquid refrigerant in response to increase in humidity of air.

2,279,788
MOLD INHIBITIVE CELLULOSIC STRUCTURE
Walter John Jebens, Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 21, 1939, Serial No. 257,586
16 Claims. (Cl. 91—68)

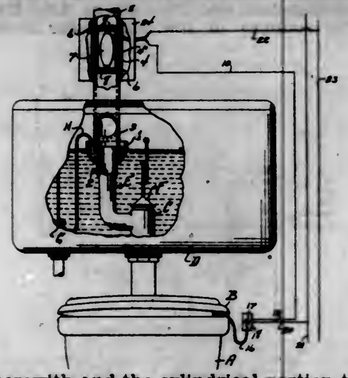
1. A non-fibrous, transparent, moistureproof, cellulosic pellicle suitable for use as wrapping tissue containing incorporated therein, as a mold inhibiting agent, a thiuram sulfide.

5. A non-fibrous, transparent, cellulosic wrapping tissue coated with a moistureproofing composition, said moistureproofing composition being from the group consisting of cellulose substitution derivative film forming agent-wax and resin film forming agent-wax, and containing incorporated therein, as mold-inhibiting agent, alkyl thiuram sulfide.

2,279,789
TOILET BOWL VENTILATOR
Henry Jentzer, Chicago, Ill.
Application September 16, 1940, Serial No. 357,049
3 Claims. (Cl. 4—213)

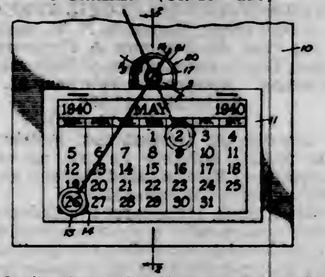
1. A ventilating apparatus for a flush tank equipped toilet bowl, an overflow pipe for the tank and communicating with the bowl, a pipe for supplying water to the overflow pipe, and said apparatus comprising a water receptacle secured to and surrounding the overflow pipe to extend above the upper end thereof, said receptacle having the outlet end of the water supply pipe extending therein to maintain water within the receptacle at all times, an air conduit including a section having its inlet end mounted in the receptacle about and below the upper end of the overflow pipe for disposal below the level of the water within the receptacle, a second section for the conduit and communicating with

the atmosphere, a housing including a cylindrical portion sleeved on the sections, an inner housing member mounted within the cylindrical portion and the sections, gaskets surrounding the ends of the inner housing member and cooperat-



ing therewith and the cylindrical portion to provide a leakproof connection for the sections, a motor driven suction means within the inner housing member, and switch means in circuit with the motor for controlling the latter.

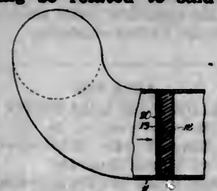
2,279,790
DATE INDICATOR
George Earl Kroll, Long Beach, Calif.
Application November 30, 1940, Serial No. 368,007
3 Claims. (Cl. 40—110)



1. A device for indicating portions of an area comprising, a member pivoted in a position fixed with respect to said area, said member having an aperture therethrough, an elongated member slidingly mounted in said aperture, said member having an indicator on one end thereof, and means fixed with respect to said area engaging said elongated member causing it to bear against said area.

2,279,791
FIRE SCREEN
Charles G. Lamb, Elmhurst, Ill., assignor to Detroit Air Filter Co., Chicago, Ill., a copartnership
Application December 9, 1939, Serial No. 308,377
7 Claims. (Cl. 169—2)

7. In a device of the character described, a supporting structure of sufficient area to close a passageway, said structure being perforate and having its perforations of predetermined cross-sectional area, and a non-inflammable coating of material including a substantial portion of sodium silicate, said material being highly expansible upon subjection to abnormal heat and coating the peripheral portions of the perforations, the extent of expansion of said coating upon subjection to predetermined temperature increase being so related to said area of said



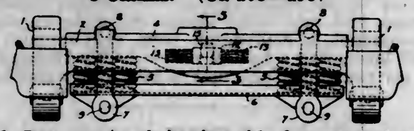
perforations that said coating will, upon such subjection, expand sufficiently to close said perforations.

2,279,792
TORQUE WRENCH
Kenneth R. Larson, Des Plaines, Ill., assignor, by direct and mesne assignments, to Automotive Maintenance Machinery Co., North Chicago, Ill., a corporation of Illinois
Application October 1, 1938, Serial No. 232,723
32 Claims. (Cl. 265—1)



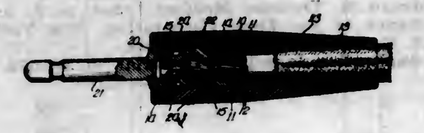
1. In a torque wrench, the combination with a handle member, of a turning head member journalled in one extremity of said handle member, a yieldable torque resisting beam anchored in said turning head member, a supporting bearing carried by said handle member and engaging said beam intermediate the extremities thereof, and torque indicating means operatively connected to the free extremity of said yieldable beam.

2,279,793
BOLSTER CENTERING DEVICE
Rudolph Leppla, Davenport, Iowa, assignor to Zimmerman Steel Company, Bettendorf, Iowa, a corporation of Iowa
Application March 10, 1941, Serial No. 382,604
5 Claims. (Cl. 105—193)



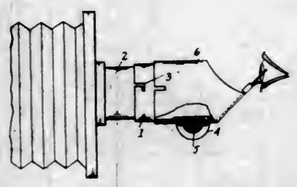
1. In a car truck having side frames and parallel cross members between the side frames, one of said cross members being held against lateral movements with respect to the side frames and another of said members being a car body supporting member mounted for vertical and endwise movements with respect to the other member, a centering device for the movable supporting member comprising a guide block mounted on one of said members substantially midway between the ends thereof for horizontal movements lengthwise of said members, said guide block having a vertical guide groove, a lug in the other of said members engaging in said groove, compression coil springs engaging opposite sides of said guide block, and shoulders on the member which carries the guide block for limiting the extent of movement of the block.

2,279,794
ELECTRICAL CONNECTOR
Einar R. Olson, Richmond, Ind., assignor to Belden Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application January 8, 1941, Serial No. 373,529
4 Claims. (Cl. 173—269)



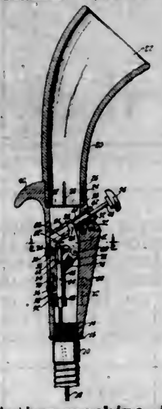
1. Electrical connector means comprising, in combination; a lead wire having, a central, flexible conductor, a fibrous covering over said conductor, and a sheath of insulation over said fibrous covering; a thin metal clip on one end of said lead wire from which said rubber insulation has been removed, said clip enclosing said fibrous covering and portions of said clip being in electrical conductive relationship with said flexible conductor; and a contact member having a tubular portion for receiving the end of said lead wire having said clip thereon, said tubular portion of the terminal being crimped onto the clip at the end of the lead wire to provide a mechanical and electrical connection between the lead wire and the terminal.

2,279,795
FITTING OF CONTACT LENSES
George Nissel, London, England
Application December 7, 1939, Serial No. 308,028
In Great Britain December 2, 1938
3 Claims. (Cl. 88—54.5)



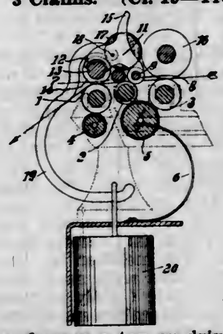
1. The method of manufacturing a contact lens consisting in the steps of taking photographs of at least two meridians at right angles to each other, of the profile of the eye-ball and with the eyeball in its extreme and opposite positions in such meridians, such photographs being taken radially through the pupil, copying the photographs of each meridian together with a common area superimposed, comparing such photographs with photographs of positive casts of previous individually fitted contact lenses, selecting the positive cast which corresponds in shape most closely to the eyeball and preparing the contact lens from such positive cast.

2,279,796
SPEAKING TUBE HANDLE FOR PHONOGRAPHS
Leland D. Norton and Joseph M. Lucarelle, Bridgeport, Conn., assignors to Dictaphone Corporation, New York, N. Y., a corporation of New York
Application March 4, 1941, Serial No. 381,610
6 Claims. (Cl. 74—503)



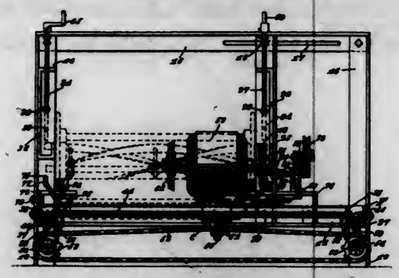
1. In a dictating machine, in combination, a speaking-tube handle suitable for connection at one end with a mouthpiece and at the other end with a speaking-tube and having a sound passage therethrough from end to end, an actuator mounted in a wall of said handle comprising a member movable in a predetermined path crossing said sound passage, an impulse transmitting control unit introducible into the interior of said sound passage through said one end of the handle and comprising means cooperative with said actuator, means for guiding during assembly said control unit to a fixed operative position in relation to said actuator, and means for rigidly securing said control unit in said position.

2,279,797
DRAWING APPARATUS FOR FLYER FRAMES
Caspar Schiesser, Ennenda, Canton Glarus, Switzerland
Application June 14, 1940, Serial No. 340,554
In Switzerland June 17, 1939
3 Claims. (Cl. 19—140)



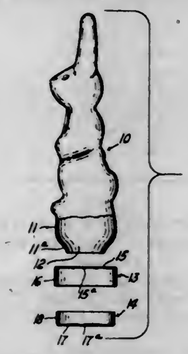
1. In flyer frames a top or driven roller train comprising a rear roller, a pair of intermediate rollers of substantially equal diameters, a front roller, and a clearer roller freely resting on the said pair of rollers and engaging the said rear and front rollers.

2,279,798
LAWN MOWER SHARPENING APPARATUS
Clyde D. Shelburne, Shelburn, Ind.
Application November 4, 1940, Serial No. 364,307
4 Claims. (Cl. 51—3)



4. In a lawn mower sharpening apparatus, a frame, a pair of grinder platform supporting rods extending horizontally of the frame, and means mounted on the frame engaging the ends of the said rods so that the rods are rotatable about an axis eccentric to the axis of the rods for tilting the grinder platform transversely of the rods.

2,279,799
NOISE MAKER FOR HOLLOW TOYS
James F. Stanford, Cuyahoga Falls, Ohio, assignor to Selden W. Anderson, doing business as Anderson Rubber Company, Akron, Ohio
Application December 17, 1940, Serial No. 370,481
3 Claims. (Cl. 46—117)

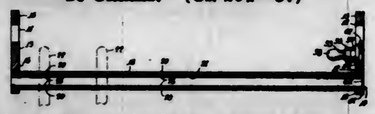


1. The combination of a hollow rubber article having an aperture therein, and a noise maker comprising a first cup-shaped member having a peripheral flange, and a second cup-shaped member having a peripheral flange inserted within the flange of said first member to provide a chamber between the members, there being a clearance provided between the flanges of the respective members substantially equal to or less than the thickness of the aperture edge portions of said hollow article, said second member being secured to said first member by the members being pressed together with said aperture edge portions of said article tightly engaged between the flanges of the respective members, the gripping action of the rubber on said flange securing the cup-shaped members to each other, said members having cooperating openings therein communicating with said chamber for producing sound by passage of air through said cooperating openings.

2,279,800
STABILIZATION OF INSECTICIDES
William P. ter Horst, Packanack Lake, N. J., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application October 14, 1938, Serial No. 234,958
5 Claims. (Cl. 167—24)

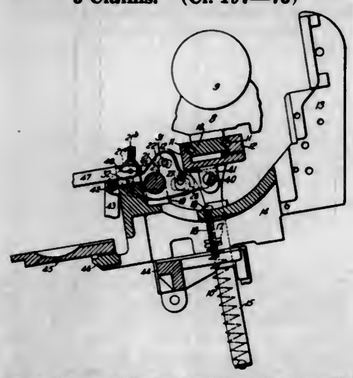
4. An insecticide preparation containing an insecticide derived from a member of the class consisting of derris root, derris powder, timbo root, cube root, pyrethrum flowers, and as a stabilizer therefor a condensation product of an aliphatic ketone with a secondary aromatic amine.

2,279,801
PORTABLE STICK MANIPULATOR
Norman M. Thomas, Medford Lakes, N. J., assignor to Joe Lowe Corporation, New York, N. Y., a corporation of Delaware
Application June 10, 1941, Serial No. 397,375
16 Claims. (Cl. 294—87)



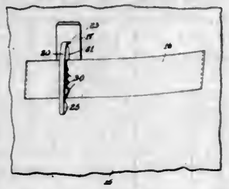
1. A stick manipulator comprising a main frame structure having a main tubular member provided with a series of longitudinally spaced openings extending therethrough, a second tubular member adapted to be mounted concentrically of said main tubular member and having a series of correspondingly spaced openings extending therethrough and means for causing rotation of said tubular members relative to one another for varying the alignment of their respective openings.

2,279,802
TYPEWRITING AND LIKE MACHINES
Russell G. Thompson, West Hartford, Conn., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application July 19, 1939, Serial No. 285,369
3 Claims. (Cl. 197—73)



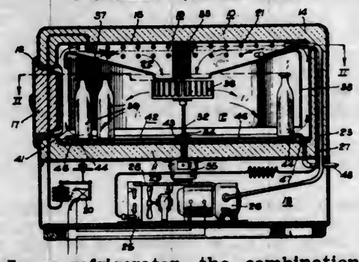
1. In a typewriting machine the combination of two relatively movable interfitting parts, one of said parts being made of an alloy comprising 88 to 90% aluminum and the other part being made of steel having substantially the same coefficient of expansion as said aluminum alloy part, said steel comprising 12 to 14% nickel, 5 to 7% manganese and less than 1% chromium.

2,279,803
SECURITY CLIP
Aniceto R. Visitacion, New York, N. Y.
Application June 6, 1941, Serial No. 396,827
1 Claim. (Cl. 24—11)



A pocket carried implement clip comprising a unitary spring bar having one end bent at a right angle and means combined therewith for attachment to an implement, a re-entrantly inturned loop socket at the opposite end presenting a smoothly curved under surface to contact the outer side of a pocket, a spring strip having one end abutting the inner surface of the bar angle, its opposite end being curved to engage in said loop socket, and a plurality of teeth formed transversely in said strip.

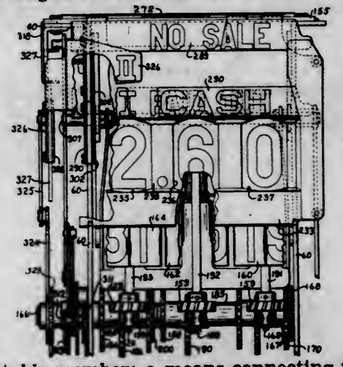
2,279,804
REFRIGERATION APPARATUS
John G. Walz, Holyoke, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 15, 1939, Serial No. 267,983
9 Claims. (Cl. 62—104)



6. In a refrigerator, the combination of a circular insulated chamber providing a storage space for the articles to be refrigerated, a cooling unit in the upper portion of said chamber, a fan below said cooling unit, a shroud for conducting the condensate of said cooling unit to said fan, a rotatable platform in said chamber for supporting the articles to be refrigerated, an access opening in the side wall of said chamber, and a door for said opening, said rotatable platform being arranged to convey articles stored thereon adjacent said access opening, said fan being arranged to circulate the air of said chamber through the cooling unit and across the articles to be refrigerated and to spray the condensate of said cooling unit over said articles.

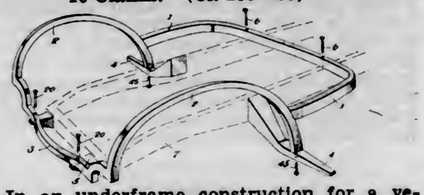
2,279,805
CASH REGISTER
Frank R. Werner, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application May 11, 1938, Serial No. 207,244
5 Claims. (Cl. 235—23)

1. In an indicating mechanism, the combination of a plate bearing a symbol; a supporting member; an upper target slidably mounted on the supporting member; a lower target slidably mounted on the supporting member which at rest position covers that part of the plate bearing the symbol; a common differentially settable member associated with both targets; a means connecting the lower target with the differential-



ly settable member; a means connecting the upper target with the differentially settable member; and means for setting the differentially settable member so that the lower target is moved from normal position to uncover the symbol on the plate or to be replaced in position by the upper target.

2,279,806
FRAME CONSTRUCTION FOR VEHICLE BODIES, ESPECIALLY FOR OVER-ENGINE CAB
Fred J. Westrope, Pleasant Ridge, Mich., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application August 17, 1939, Serial No. 290,535
16 Claims. (Cl. 180—89)

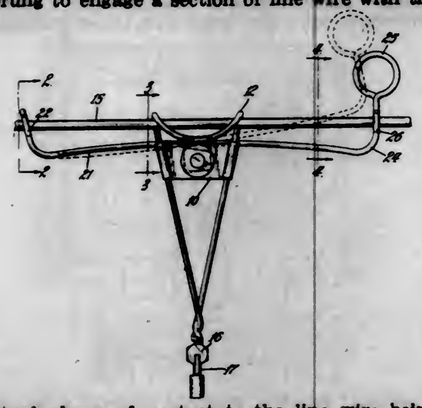


1. In an underframe construction for a vehicle cab such as an over-engine cab, a sill member U-shaped in plan view having its central portion extending transversely to the longitudinal direction of the cab and the two arms extending forwardly, a second transverse sill member spaced from and forwardly of said first named sill member and a pair of lateral sill members having their ends downwardly bowed and being connected to the ends of said arms and of said second sill member to form a closed frame.

2,279,807
LINE CLAMP
John L. Yonkers, Evanston, Ill.
Application January 22, 1941, Serial No. 375,443
7 Claims. (Cl. 173—273)

3. A line connector comprising a base having a terminal, a first spring wire carried by said base and hooked to permit hanging the connector from a line wire, a second spring wire carried by said base and extending on opposite sides therefrom and spaced from but extending

along the line wire for a distance great in comparison to the length of line wire contacted by said first wire, said second wire having the ends hooked to engage the line wire, said wires being sprung to engage a section of line wire with the



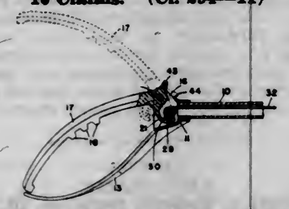
actual places of contact to the line wire being small and separated by long distances whereby the connector load on the line wire is distributed with every part of the connector contacting the line wire being independently spring mounted.

2,279,808
TUBE ATTACHING MEANS FOR HEAT EXCHANGERS
Fred M. Young, Racine, Wis.
Application October 24, 1938, Serial No. 236,605
2 Claims. (Cl. 285—111)



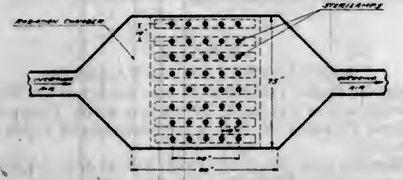
1. A device of the class described, comprising a tube and a tube plate having an aperture, a relatively short sleeve extending through said aperture and being brazed or welded to said tube plate, the outer end of said sleeve extending tubeward for a considerable distance from the plate, said tube extending substantially through said sleeve and being bonded therein after said first brazing or welding operation.

2,279,809
CLINKER TONGS
Jacob F. Apfel, Hamilton, Ohio
Application March 11, 1941, Serial No. 382,775
10 Claims. (Cl. 294—11)



1. A clinker tong comprising an elongated body portion one end of which terminates in a hand grip portion, the other end of which terminates in a collar, an actuator lever pivotally secured to said hand grip portion, a fixed jaw projecting from said collar and a pair of spaced ears projecting upwardly therefrom, a movable jaw having one end pivotally mounted between said ears for movement relative to the fixed jaw, an actuating ear formed integral with said movable jaw and disposed between said ears, a hollow chamber provided in said actuator ear, said chamber including bottom, front, top, and spaced side walls being open only along its rear edge, an actuator rod extending between and interconnecting said actuator ear and said actuator lever, and means disposed interiorly of said actuator ear chamber to which the forward end of the actuator rod is pivotally secured, the walls of said chamber adapted to shield the forward end of said actuator rod from the direct action of the flame and hot gases of a fire box into which said tongs are introduced incident to the removal of clinkers therefrom.

2,279,810
METHOD AND APPARATUS FOR EFFICIENTLY STERILIZING AIR IN DUCTS
Edward G. F. Arnott, Montclair, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 28, 1940, Serial No. 342,934
9 Claims. (Cl. 250—43)



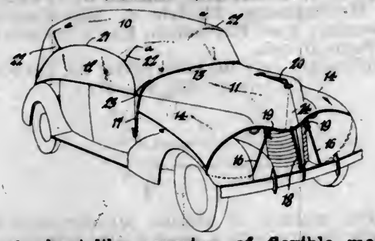
1. The method of sterilizing air comprising spacing ultra-violet generating lamps in a straight portion of an air duct, with their axes transverse to the line of movement of air therein, said lamps being spaced so that they are approximately uniformly distributed over the central half of the duct.

2,279,811
RELAY
Clarence I. Baker, Elizabeth, N. J., assignor to Bell Telephone Laboratories Incorporated, New York, N. Y., a corporation of New York
Application June 19, 1940, Serial No. 341,219
2 Claims. (Cl. 200—1)



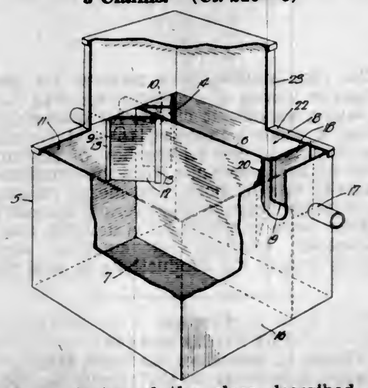
1. In a switching device having an operating means, a contact spring assembly comprising a plurality of operating springs and a plurality of stationary springs, each of said springs being insulatedly supported adjacent to one end and having an axially extending slot therein adjacent to its free end, and a member of insulating material operable by said operating means and insertable through the aligned slots of said springs, said member having notches in one edge thereof in which the portions of said springs immediately adjacent to the corresponding ends of said slots are seated when said member is moved in said slots in the axial direction of said springs and having integral locking projections on each end thereof completely filling the slots in the outer two operating springs of said assembly for locking itself to said operating springs, the slots in said stationary springs being of such width and length that said member moves freely therethrough when said member is locked to said operating springs.

2,279,812
PROTECTIVE COVER FOR AUTOMOBILE BODIES
Fred Bartlett, Buffalo, N. Y.
Application January 27, 1940, Serial No. 316,043
3 Claims. (Cl. 135—5)



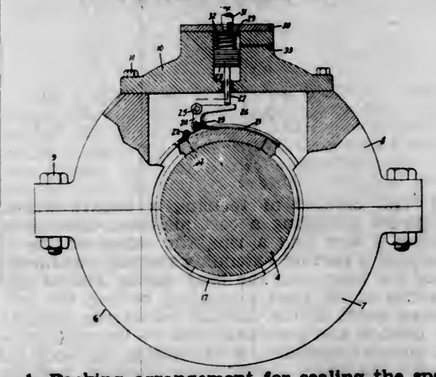
1. A sheet-like covering of flexible material adapted to be stretched tightly over an automobile, comprising a body covering section and an adjoining hood covering section, said body covering section comprising a middle panel with darts in its side edges to make it conform to the shape of an automobile body and having laterally disposed side panels with convexly curved lateral contours, attached to said side edges, said hood covering section having divergent lateral edges, and flexible tie members attached to the said sections for snugly holding the said covering to an automobile.

2,279,813
COMBINED SEPTIC TANK AND GREASE TRAP
Austin Bent, Land O'Lakes, Wis.
Application August 28, 1940, Serial No. 354,504
3 Claims. (Cl. 210—6)



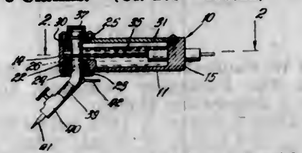
1. In a device of the class described, a receptacle having a partition wall separating the receptacle into a pair of compartments, said receptacle having a pair of relatively independent inlet openings respectively communicating with said compartments, and an outlet opening communicating with one of said compartments in spaced relation to the inlet opening thereof and at a level lower than that of said inlet opening, a baffle plate in said last mentioned compartment spaced from said outlet opening and depending from a level above said outlet opening to below the same, said partition having an opening intermediate said baffle plate and the wall portion having said outlet opening and above the latter, and a baffle plate in the other of said compartments overlying said partition opening and extending downwardly to a level below the same.

2,279,814
PACKING ARRANGEMENT
Edgar D. Dickinson, Beverly, Mass., assignor to General Electric Company, a corporation of New York
Application December 24, 1940, Serial No. 371,472
6 Claims. (Cl. 286—20)



1. Packing arrangement for sealing the space between a casing subject to high temperatures and a shaft projecting through an opening in the casing comprising a packing ring having a plurality of segments for surrounding such shaft within the opening, and means including a band surrounding the segments and a hydraulic motor for biasing the segments towards each other.

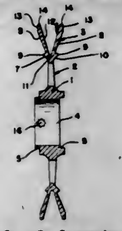
2,279,815
POTENTIOMETER
Henry M. Dressel, Chicago, Ill., assignor to Oak Mfg. Co., a corporation of Illinois
Application November 14, 1940, Serial No. 365,665
3 Claims. (Cl. 179—100.41)



1. A potentiometer comprising a liquid having sensible continuous conductivity, a pair of spaced electrodes immersed in said liquid, said electrodes being relatively fixed and having a small effective area and being separated by a distance in the liquid great in comparison to any transverse electrode dimension, said electrodes being adapted to have a substantial potential difference impressed therebetween to cause some current flow through said liquid, and a potentiometer electrode between said fixed electrodes, said potentiometer electrode being movable along straight lines between said spaced electrodes, said potentiometer electrode having an effective electrode area disposed along lines connecting said spaced electrodes with the area being much greater than the area of the first-named electrodes, the liquid resistance being high enough

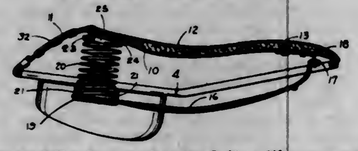
and said potentiometer electrode area being great enough so said potentiometer electrode concentrates substantially all the potential gradients passing through the liquid in itself to create two substantially separate series connected liquid paths.

2,279,816
METHOD OF MAKING SHEAVES
Christian L. Eppler, Detroit, Mich., assignor to Midwest Tool & Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application May 22, 1939, Serial No. 275,071
4 Claims. (Cl. 29—159)



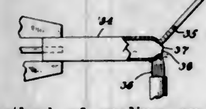
1. The method of forming a sheave which comprises providing a cast malleable iron body having a web and a rim, the latter having a base and a portion extending radially outwardly from the base, and the base having lateral extensions at its sides projecting beyond the adjoining parts of the radially outwardly extending portion and providing radially inwardly facing annular shoulders, cold working the body by steps comprising forming an annular radially outwardly opening groove in the radially outwardly extending portion with the groove extending to a zone between the extensions to thereby provide spaced side walls, supporting the body through the annular shoulders, meanwhile spreading apart the side walls by applying rolling pressure thereon in a direction generally toward the axis of the sheave and bending the side walls in opposite axially outward directions about the base and extensions to thereby provide a V-shaped groove, and during the spreading apart and bending of the side walls substantially maintaining the shape of the portions of the side walls radially outwardly of the bending zone.

2,279,817
SADDLE
Roland W. Faulhaber, Monroeville, Ohio, assignor to The Faulhaber Company, Monroeville, Ohio, a corporation of Ohio
Application February 4, 1939, Serial No. 254,664
8 Claims. (Cl. 155—5.22)



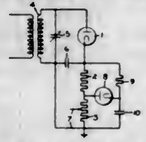
8. A saddle for cycles and the like comprising a seat member, a reach member, means connecting the forward end of the reach member to the seat member, a pair of coil springs having their upper ends connected to the rear portion of the seat member, means connecting the lower ends of said springs to the rear portion of the reach member so as to transmit loads from said springs directly through said means to the reach member, and a pair of ornamental and protective housings secured to the reach member, each of said housings comprising a drawn metal cup having its upper end open and receiving the lower end of one of said springs and being closed below said reach, said housings concealing and preventing contact with the lower ends of said springs but being free of the loads transmitted by said springs to said reach.

2,279,818
METHOD OF MAKING SEALS
George A. Freeman, East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 15, 1939, Serial No. 284,575
6 Claims. (Cl. 49—81)



1. The method of sealing an electrode and starting electrode in a quartz tube which comprises melting a bead on the electrode lead-in, melting another bead on the starting electrode lead-in, placing the two bead units adjacent each other, exerting lateral pressure on a bead unit in the direction of the other bead unit, melting said beads into a joint bead and sealing the joint bead in a quartz container.

2,279,819
SIGNAL RECEIVING SYSTEM
George W. Fyler, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Application June 13, 1936, Serial No. 85,077
26 Claims. (Cl. 250—20)

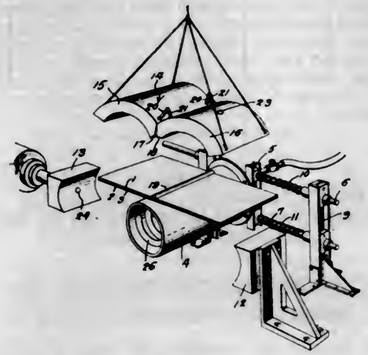


3. The combination, in a receiver for modulated carrier waves, of a detector for said carrier wave having an output circuit for demodulation products, a diode connected to said circuit in such a way as to control the flow of current to said circuit in accordance with the condition of conductivity of said diode, and means responsive to the relation between the average intensity of the carrier wave applied to said detector and the instantaneous intensity of currents applied thereto to control the conductivity of said diode.

2,279,820
PLYWOOD VESSEL
George C. Hamilton, McComb, Miss.
Application September 24, 1937, Serial No. 165,591
3 Claims. (Cl. 144—309)

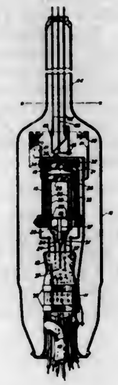
1. Method of making a curved sided plywood vessel comprising forming a plywood cylinder, forming a head for said cylinder having a concave peripheral groove terminating in relatively sharp edges, applying to the surface of said groove a cement which sets under pressure and high temperature, forcing said head into said cylinder, and applying crushing pressure to the outside periphery of said cylinder in the zone of said head for crushing the relatively sharp edges

of said groove bringing the periphery of said head into surface contact with the adjacent wall of the cylinder, and applying heat to effect the



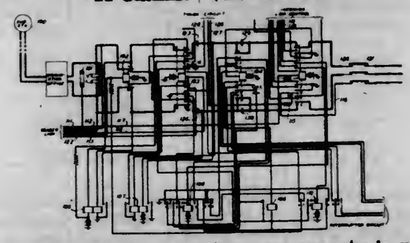
thermosetting of said cement while the joint between said head and cylinder is still under pressure.

2,279,821
SECONDARY ELECTRON EMISSIVE ELECTRODE
Carl A. Hedberg, Roselle Park, and James O. McNally, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 17, 1940, Serial No. 330,016
5 Claims. (Cl. 250—174)



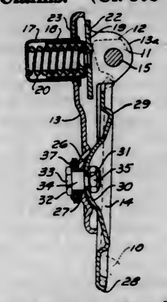
1. The method of manufacturing a secondary electron emissive electrode, which comprises producing on a foundation member a coating of a compound of a relatively inactive metal which compound will liberate oxygen when heated and have a residue stable at the normal operating temperature of said electrode, depositing upon said coating a layer of an active metal an oxide of which has a secondary electron emission factor greater than unity, reducing said compound by heating the composite thus formed with said active metal whereby a layer of the oxide of said active metal is produced on said member, and removing substantially all free active metal from the assembly thus formed.

2,279,822
INTERCEPTING TRUNK
Israel H. Henry, East Orange, and Franklin A. Korn, Westfield, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 26, 1940, Serial No. 362,982
11 Claims. (Cl. 179—27)



1. In a telephone system, an operator's position, a trunk terminating at said position, a signal associated with said trunk, means for establishing a connection over said trunk to said position, means responsive to the establishment of said connection for transmitting ringing current over said trunk in spaced periods and means responsive to the first complete period of ringing current to simultaneously discontinue the transmission of said ringing current and to operate said signal.

2,279,823
JOURNAL BOX LID
Harry J. Horn, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application February 3, 1941, Serial No. 377,113
8 Claims. (Cl. 308—47)

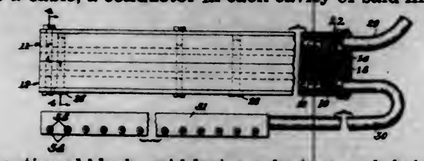


1. A journal box lid assembly comprising a hood member adapted for pivotal connection to a journal box hinge lug, a cover member, one of said members having a substantially spherical recess therein, the other member comprising a protuberance having a spherical surface of greater radius than the radius of said recess and received therein, and means securing said members together for limited universal movement of said protuberance in said recess, said means including resilient means biasing said members together.

2,279,824
CONNECTOR DEVICE
Lincoln M. Keefe, Springfield, Mass.
Application December 11, 1940, Serial No. 369,568
6 Claims. (Cl. 173—328)

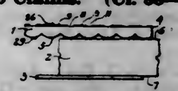
1. In a connector device for electrical cables, a pair of cooperative blocks of insulation material, a plurality of isolated cavities formed in at

least one surface of one of said blocks, a plurality of isolated cavities formed in the other of said blocks, means for detachably securing said blocks together with their corresponding isolated cavities in registration, a conductor in each cavity of said second mentioned block, each conductor being substantially L shaped with one leg lying on the bottom of its cavity and the other leg extending through the block for connection to a cable, a conductor in each cavity of said first



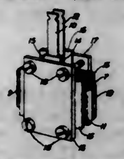
mentioned block, said last conductors each being formed of spring material with a straight portion extending through its block for connection to a cable and a portion of zigzag form extending from its cavity a distance greater than the depth of the corresponding cavity in said second block minus the thickness of the first mentioned leg of said L shaped conductor, thereby insuring intimate contact between corresponding conductors when said blocks are secured together.

2,279,825
STEREOSCOPIC PICTURE WITH APLANAT FOCUSING ELEMENT
Nicholas T. Kasnab, New York, N. Y.
Application July 24, 1940, Serial No. 347,124
3 Claims. (Cl. 88—1)



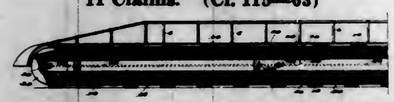
1. In a changing stereoscopic picture assembly, a sheet made of transparent material, a plurality of parallel convex cylindrical focusing elements on one side of said sheet, a plane sheet made of transparent material in contact with the focusing elements, the plane surface of the plane sheet away from the focusing elements being in the focal plane of said focusing elements, a stripe composite stereoscopic print or picture mounted in the said focal plane, said print or picture having one respective stripe element for each focusing element, the stripe elements and the focusing elements being in registering cooperative relation, the said stripe elements representing successive panoramic aspects of the same object as seen from laterally displaced view points at the respective focusing elements.

2,279,826
ELECTRICAL CONDENSER
Joseph A. Kater, Teaneck, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 20, 1938, Serial No. 246,800
2 Claims. (Cl. 175—41)



1. An electrical condenser comprising a set of rectangular conducting plates electrically connected together, a second set of rectangular conducting plates electrically connected together, and alternating with the plates of said first set, dielectric members interposed between plates of said first set and plates of said second set, a terminal member extending from the middle edge portion of a plate of said first set, and a second terminal member extending in the same direction from an identical portion of an adjacent plate of said second set, said terminal members being in parallel relation and in such close proximity to each other as to render them substantially non-inductive.

2,279,827
SPEEDBOAT
Piotr F. Lapidovsky, Wilmington, Del.
Application December 12, 1940, Serial No. 369,885
11 Claims. (Cl. 115—63)

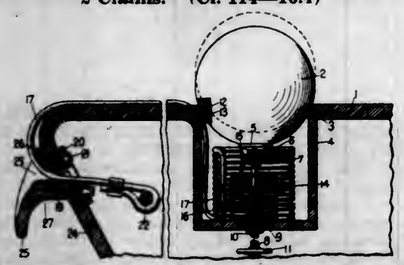


6. A boat of the character described, comprising a cargo carrying, water displacing hull, a friction-reducing, relatively thin, endless belt, forming a sheath or envelope extending around said hull in a fore and aft direction, above and below the hull, the upper and lower stretches of the belt being located above and below the water line, respectively, and power means for driving said belt.

2,279,828
SOLDERING FLUX
Leo Liberthson, New York, N. Y., assignor to L. Sonneborn Sons, Inc., a corporation of Delaware
No Drawing. Application December 31, 1940, Serial No. 372,496
7 Claims. (Cl. 148—25)

1. A soldering flux essentially comprising a substantially stable dispersion of at least one inorganic salt of the solder-flux type in a hydrocarbon vehicle substantially solid at normal temperatures and containing at least one member of the group consisting of petroleum mahogany sulphonic acid and alkali petroleum mahogany sulphonate.

2,279,829
DEVICE FOR RAISING SUNKEN SUBMARINES
Swayze A. Lyon, Columbus, Ohio
Application December 4, 1940, Serial No. 368,519
2 Claims. (Cl. 114—16.4)

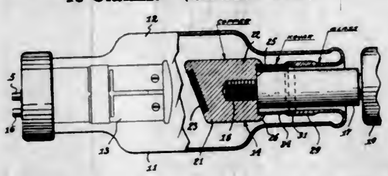


1. A device for indicating the location of a sunken submarine and for use in raising the submarine comprising a housing disposed on the hull of the submarine adjacent one end thereof and projecting into the interior thereof, said housing having its upper end open and its lower end closed, said housing having a seat formed at its upper end, a buoy resting on said seat, means for normally maintaining said buoy on said seat, said means comprising a screw member passing through the bottom of said housing and being connected to said buoy by a threaded connection, said screw member being accessible from within the submarine in order to permit the release of the buoy when desired, interfitting portions on said buoy and adjacent said seat to prevent rotation of the buoy until released by said screw, a small cable normally disposed within said housing in surrounding relationship to said screw and having one end attached to said buoy, a notched passageway formed in the buoy seat beneath said buoy, a larger cable normally disposed in said housing having one end attached to said small cable and having its other end passed through said passageway formed in the buoy seat beneath said buoy and passed over the exterior of the hull of the submarine to the extreme end thereof, and opening in said extreme end of the hull, a passageway through said opening to the interior of the hull for the cable to pass through, the end of said cable being anchored to a transversely extending pin secured to the wall in the interior of the hull.

2,279,830
METAL PLATING BATH AND METHOD OF PLATING
John J. Murray, Arlington, Mass.
No Drawing. Application March 9, 1938, Serial No. 194,967
8 Claims. (Cl. 204—51)

1. A chromium plating bath comprising chromic acid and a minor proportion of a chlorinated acetic acid.

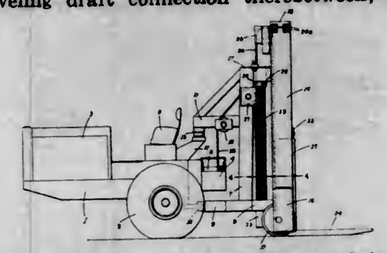
2,279,831
DISCHARGE DEVICE AND METHOD OF MAKING
Joseph Lempert, Montclair, and Nelson H. Stewart, Caldwell, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 30, 1941, Serial No. 391,124
15 Claims. (Cl. 250—27.5)



2. A discharge device comprising a vitreous envelope, an electrode sealed in said envelope, said electrode comprising a copper element having a cavity, a sleeve of material adapted to seal directly to the material of the envelope, and a brazing alloy fused in and filling the space in said cavity around the received open end portion of said sleeve.

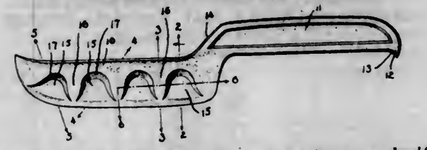
2,279,832
MOBILE ELEVATOR
Robert G. Le Tourneau, Peoria, Ill., assignor to R. G. Le Tourneau, Inc., a corporation of California
Application June 20, 1941, Serial No. 398,967
4 Claims. (Cl. 214—113)

2. In a mobile elevator which includes the combination of a wheel supported elevator assembly having rearwardly projecting load supporting arms, a tractor ahead of said elevator assembly and a vertically rigid horizontally swiveling draft connection therebetween; said



tractor including means projecting a substantial distance ahead of its supporting wheels in counterbalancing relation to said load supporting arms.

2,279,833
KNIFE
Edward K. Madan, Maplewood, N. J.
Application August 1, 1941, Serial No. 404,991
5 Claims. (Cl. 30—165)



5. In a new article of manufacture, a knife including a blade having a series of alternate indentations and raised portions extending along the side face of the blade, said raised portions gradually decreasing in thickness and width from their back portions toward the cutting edge of the blade and terminating substantially in points flush with the face of the blade adjacent to the cutting edge.

2,279,834
VALVE
Howard H. McGee, New York, N. Y.
Application April 14, 1941, Serial No. 388,402
7 Claims. (Cl. 251—9)

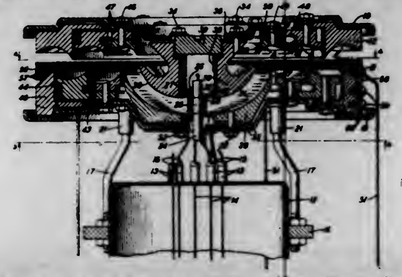


1. A fluid control valve comprising a flexible walled chamber having a closed valve seat and a passage from said chamber and a tube entering said chamber through a flexible wall thereof and tiltable by flexing said wall to a tight contact with said closed seat and aside from said closed seat into communication with said passage.

2,279,835
ELECTRON DISCHARGE DEVICE
James W. McRae, Neptune, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 21, 1940, Serial No. 371,124
6 Claims. (Cl. 250—175)

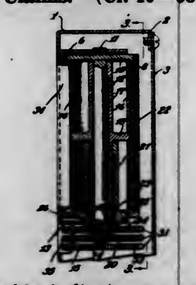
1. An electron multiplier comprising a primary cathode, a pair of spaced metallic plate

members, a group of annular secondary electron emissive electrodes mounted on one of said plate members and coaxial with said primary cathode, a second group of annular secondary electron



emissive electrodes mounted on the other of said plate members, coaxial with said cathode and facing said first group of electrodes, and a collector electrode coaxial with said cathode.

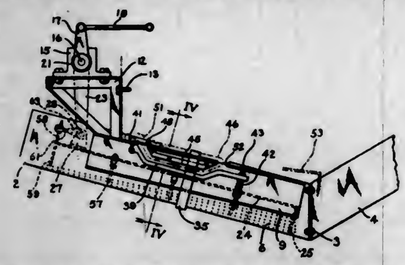
2,279,836
CHANGEABLE INDICATOR
Joseph P. McMullin, Concordville, Pa.
Application May 6, 1941, Serial No. 392,147
2 Claims. (Cl. 40—68)



1. A changeable indicator comprising a housing including a front wall having window openings therein, a cylinder unit for each opening and arranged within the housing, each unit including inner, intermediate and outer cylinders, the cylinders being hollow and mounted one within the other for independent rotation, indicia on each cylinder, the intermediate and outer cylinders having slots therein for the indicia of each cylinder of a unit to show through its window opening, a frame for each cylinder unit and secured within the housing, trunnions on the intermediate and outer cylinders of each unit and mounted for rotation in the frame thereof, a disk connected to each cylinder for rotating the same, the disks having notched peripheries, spring members for the disks and including spring fingers having substantially V-shaped free ends engaged in the notches to hold the cylinders against casual rotation, and said disks having holes therein for receiving a pin or the like to facilitate rotating the cylinders.

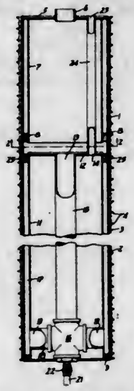
2,279,837
CONVEYING DEVICE
Clarence V. Newlin, Detroit, Mich.
Application June 12, 1941, Serial No. 397,678
5 Claims. (Cl. 198—223)

1. A conveying device comprising a pan having an open end, a plate spaced from the bottom of the pan and reciprocally movable within the pan, a cam roller secured to the plate, a cam located at the side of the pan for engaging the roller and for supporting the plate and for determining the path of movement of the plate, a lever pivotally attached to the plate for supporting one end of the plate and for reciprocally actuating the plate, and a plurality of prongs extending downwardly from the plate, said cam comprising a lower cam member and an upper cam member,



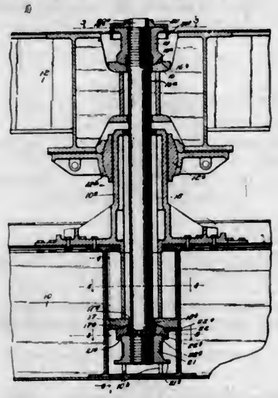
said upper cam member normally closing the cam path but being automatically movable by the cam to provide a cam surface for the cam roller during forward movement of the plate, and said upper cam member having an opening at the end of the forward stroke of said plate for permitting the cam roller to engage the lower cam member, and resilient means for cushioning one end of the lower cam member.

2,279,838
FILTER
Edwin Letts Oliver, Piedmont, Calif., assignor to Oliver United Filters Incorporated, Oakland, Calif., a corporation of Nevada
Application July 2, 1940, Serial No. 343,571
5 Claims. (Cl. 210—154)



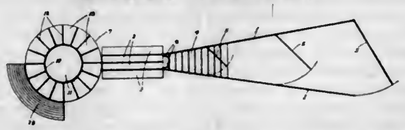
1. A thickener tube comprising: a perforate shell; a cover sealed over the upper end of said shell; a lower inner imperforate tube extending upwardly from and sealed to the lower end of said shell; a plate sealed over the upper end of said lower tube; an upper inner imperforate tube depending from and sealed to said cover, the lower end of said upper tube being open and spaced from the upper end of said lower tube; means for maintaining said lower and upper inner tubes in spaced relation with respect to said shell so as to define lower and upper annular filtrate compartments; and means for establishing communication between the upper inner end of said lower tube and a point external to the upper end of said upper tube.

2,279,839
PIVOT CONSTRUCTION
John W. Page, Chicago, Ill., assignor to Page Engineering Company, a corporation of Illinois
Application December 5, 1940, Serial No. 368,701
4 Claims. (Cl. 308—141)



1. Pivot construction, including: upper and lower members, each carrying a bearing seat with an aperture therethrough; a pivot pin extending through said apertures; an upper nut on the upper end of the pivot pin having a bearing surface on its lower face engaging the bearing seat on the upper member; a locking member for the upper nut; a lower nut on the lower end of the pivot pin; and a locking member for the lower nut having a bearing surface on its upper face engaging the bearing seat on the lower member.

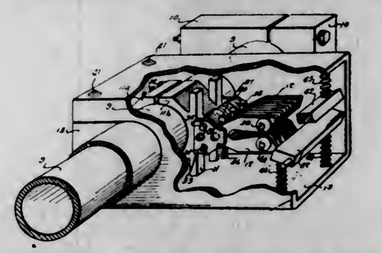
2,279,840
SHEEP DRENCHING APPARATUS
Robert L. Robinson and Robert L. Thompson, Oakdale, Calif.
Application April 29, 1940, Serial No. 332,134
12 Claims. (Cl. 119—98)



1. In sheep drenching, an apparatus for disposing sheep in position for drenching comprising a turntable platform having a central operating enclosure outlined by an upstanding wall, partitions on the platform radiating out from the wall to form individual sheep stalls, of which said wall forms the head, the wall at each stall having a head receiving opening, and means to feed sheep into the stalls from the outer end thereof upon rotation of the turntable.

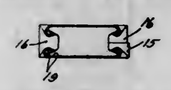
2,279,841
SWITCHBOARD
William M. Scott, Jr., Bryn Mawr, Pa., assignor, by mesne assignments, to I-T-E Circuit Breaker Company of Pennsylvania
Original application August 27, 1938, Serial No. 227,089. Divided and this application April 26, 1940, Serial No. 331,697
11 Claims. (Cl. 175—298)

11. A switchboard having a compartment, a plurality of bus conductors extending substantially parallel to each other transversely of said compartment, a plurality of housings of insulating material staggered with respect to each other and each embracing a relatively short portion of one of said bus conductors, disconnect contact means comprising electrically conductive structures each attached to a different one of said bus conductors within its associated one of



said housings, insulation for each of said bus conductors complementary to its insulation afforded by its associated housing in completion of electrical isolation within said compartment of each of said bus conductors, and insulating panels each supporting said bus conductors and jointly dividing said compartment into sub-compartments each containing not more than one of said housings.

2,279,842
METHOD OF MAKING PACKAGES
Elmer Lovell Smith, Longmeadow, and Francis Ross Clark, Springfield, Mass., assignors to Package Machinery Company, Springfield, Mass., a corporation of Massachusetts
Application November 18, 1938, Serial No. 241,194
3 Claims. (Cl. 93—6)

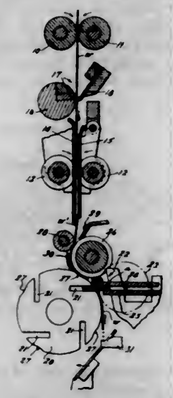


1. A method of forming a sealed end on an article wrapped circumferentially in a wrapper having an adherent inner surface which comprises securing to the article end a seal of substantially the size of the article end and having an adherent outer surface, and folding and sealing the wrapper to the end seal by forming trapezoidal tucks and opposed folds one overlying the seal and the tucks and the other overlying the seal, the tucks, and the first fold.

2,279,843
WRAPPER FEED FOR WRAPPING MACHINES
Elmer Lovell Smith, Longmeadow, and Carl E. Melhorn, Springfield, Mass., assignors to Package Machinery Company, Springfield, Mass., a corporation of Massachusetts
Application January 14, 1941, Serial No. 374,308
10 Claims. (Cl. 93—2)

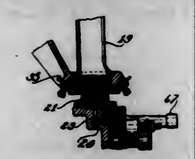
1. A web feed for a wrapping machine comprising a pair of continuously rotating feed rolls, a second pair of continuously rotating feed rolls spaced from the first pair and driven at a higher surface speed, means intermediate the pairs of rolls for severing a web extending between them, and a third pair of intermittently rotating rolls positioned to receive a severed wrapper from the second pair of rolls, said third pair of rolls

having the plane of their axes oblique to the plane of the axes of the second pair of rolls to



direct the trailing end of a wrapper out of the path of the advancing end of the next wrapper.

2,279,844
LABELING DEVICE
Elmer Lovell Smith, Longmeadow, and Edwin Alton Van Wart, Wilbraham, Mass., assignors to Package Machinery Company, Springfield, Mass., a corporation of Massachusetts
Application June 16, 1941, Serial No. 398,222
6 Claims. (Cl. 216—55)



1. A labeling machine comprising an article carrier having pockets for conveying a succession of articles, a labeling carrier positioned to transfer labels successively to articles in the article carrier, a plurality of suction operated label pickers in the carrier, an article feeler, and suction cut-off devices individual to each picker actuated by the feeler in the absence of an article for shutting off suction to the picker.

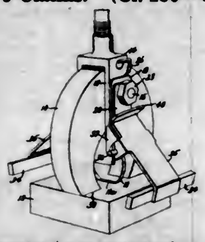
2,279,845
NECKTIE
Albert F. Snyder, Troy, and Morris Solomon, Albany, N. Y., assignors to Cluett, Peabody & Co., Inc., Troy, N. Y., a corporation of New York
Application February 27, 1940, Serial No. 321,005
3 Claims. (Cl. 2—146)

1. A lined necktie of the four-in-hand type so constructed that when knotted, a dimple is formed below the first knot and midway between the side edges of the necktie, and wherein the lining is provided at the knotting area of the necktie with a longitudinally extending slit midway between the side edges thereof, the walls of which slit, when the necktie is flat, normally abut so that the presence of the slit is not apparent and when the necktie is knotted, sepa-
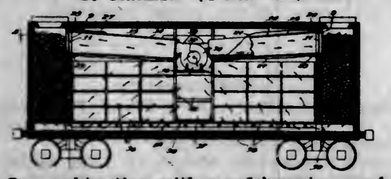


rate to provide an open space at the base of the dimple and guide the formation thereof.

2,279,846
TEMPERATURE MEASURING APPARATUS
Patrick L. Stapleton, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application January 27, 1940, Serial No. 315,989
9 Claims. (Cl. 136—4)



1. In a temperature measuring device, a permanent magnet element, a thermocouple element, means for securing said thermocouple element to said permanent magnet, whereby the attractive force of said magnet may be employed for positioning said thermocouple adjacent a body the temperature of which is to be measured, and means for biasing said thermocouple element into thermal relationship with the surface of the body.

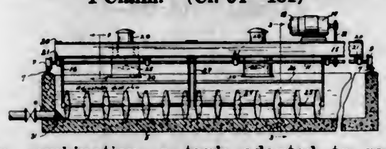
2,279,847
REFRIGERATING CAR
Harry Y. Stebbins, Los Angeles, Calif., assignor to General American Precooling Corporation, Chicago, Ill., a corporation of Delaware
Application October 21, 1940, Serial No. 362,132
10 Claims. (Cl. 62—24)



1. In combination with a refrigerator car having a refrigerant compartment at one end and a load-receiving space opening into said compartment, means for forcing air into said compart-

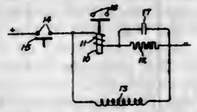
ment comprising air-forcing means, a duct of non-rigid material communicating with said air-forcing means and with the opening to said compartment, means releasably holding said duct in communication with said opening, and means on said duct accessible for operation by the operator without mounting the load for actuating said third-named means to release said duct and serving as a means to move said duct along the load.

2,279,848
APPARATUS FOR DRYING SLUDGE
Gilbert C. Unger, Jr., Louisville, Ky., assignor to Engineering Development Corporation, Jacksonville, Fla., a corporation of Florida
Application April 4, 1940, Serial No. 327,909
1 Claim. (Cl. 34—181)



In combination, a tank adapted to receive sludge to be dried, an elongated carriage spanning said tank, means for guiding the carriage along the walls of the tank, power means for reciprocating the carriage along the tank, and a plurality of independent plow units suspended from said carriage, each comprising a plurality of plow discs, said tank being open at its top to the free entry of air and air propelling means mounted upon the carriage above each of the plow units acting to discharge air forcibly upon the surface of the material being upturned by its associated plow unit.

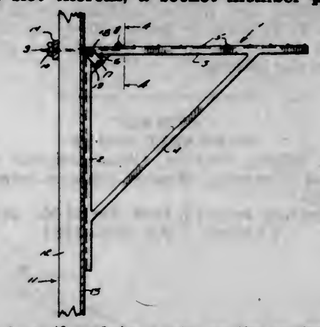
2,279,849
CONTROL OF ELECTROMAGNETIC DEVICES
Albert R. van C. Warrington, Wallingford, Pa., assignor to General Electric Company, a corporation of New York
Application May 16, 1940, Serial No. 335,518
9 Claims. (Cl. 175—320)



2. In combination, an electromagnetic device having an energizing winding, a resistance connected in series relation with said winding, a source of direct current, a switch for connecting said source across said series related winding and resistance, means for accelerating the pick-up of said electromagnetic device when said switch is closed comprising a condenser connected across said resistance, and means for accelerating the drop-out of said electromagnetic device when said switch is opened comprising an inductance connected directly across said winding and said resistance.

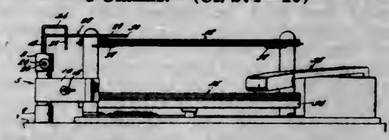
2,279,850
SCAFFOLD SUPPORT
Edward K. Vansickle, Homestead, Pa.
Application April 24, 1941, Serial No. 390,161
4 Claims. (Cl. 304—11)

1. A scaffold support comprising an angular bracket including legs joined at one end and extending at substantially right angles to each other, one of said legs being engageable with a wall structure, a reinforcing plate fixed in the corner portion of the bracket and having an arcuate slot therein, a socket member pivotally



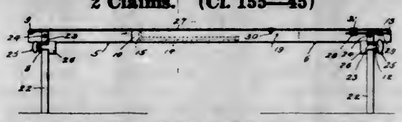
mounted on the plate, a pin on the socket member operable in the slot, and a prop engaged in the socket member for supporting the bracket and pressing said one leg against the wall structure.

2,279,851
AUTOMATIC RECORD CHANGER STOP
James A. Waln, Albany, and Robert L. Waln, Voorheesville, N. Y.
Application May 14, 1941, Serial No. 393,443
3 Claims. (Cl. 274—10)



2. In combination, an automatic record-changer equipped record player comprising a turntable driven by a motor, means for supporting a stack of records above said turntable including a retractible element to permit the lowermost record of the stack to drop onto and be played on said turntable, a vertically movable arm engaging the uppermost record of said stack, said retractible element being disposed in the path of downward movement of said arm for engagement by the arm when the last record of the stack has dropped and is being played on said turntable, said arm being released by the retractible element as the latter automatically retracts at the finish of the playing of the said last record, and circuit-breaker means for the motor operatively connected to said arm and arranged for movement into circuit-opening position upon releasing of the arm by said retractible element.

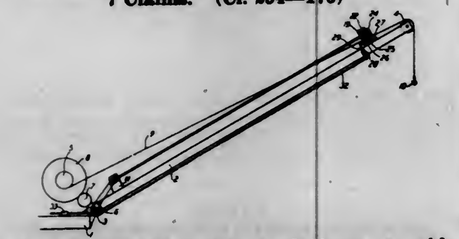
2,279,852
COMBINATION CHAIR AND BED
Thomas F. Webster, Madison, N. C.
Application February 10, 1941, Serial No. 378,279
2 Claims. (Cl. 155—45)



1. A convertible chair and bed comprising substantially U-shaped inner and outer frames, said frames embodying side rails, the side rails of the outer frame having bayonet slots and fitted in contacting parallel relation with the side rails of the inner frame, outwardly extended pins se-

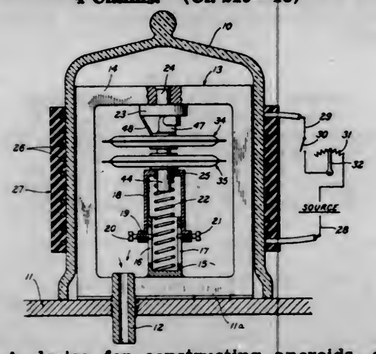
cured to the inner frame and disposed within the slots, said pins being square in cross section and adapted to slidably engage the walls of the slots holding the frames against pivotal movement with respect to each other, leg members pivotally connected to the frames, and a flexible cover for the frames.

2,279,853
PORTABLE HOIST
Fred L. White, Marion, Ohio, assignor to The Osgood Company, Marion, Ohio, a corporation of Ohio
Application June 17, 1940, Serial No. 340,881
7 Claims. (Cl. 254—176)



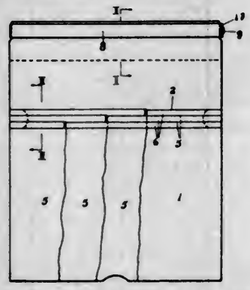
1. In a portable hoist; a platform; a cable reel adapted for rotation and mounted on said platform; a boom mounted on said platform and having a sheave on its free end; a cable wound on said reel and extending over said boom sheave; a slack puller mounted on said boom adjacent the boom sheave, comprising a sheave, means to drive said sheave substantially synchronously with said reel which includes means extending longitudinally of said boom and driven from said reel, and also comprising a pivoted lever mounted on said boom and carrying an idler sheave, said cable passing over said idler; pressure fluid operated means connected to said pivoted lever to move the cable passing over said idler sheave into engagement with said slack puller sheave; and a valve means on said platform operatively connected to said pressure fluid operated means to remotely control said pressure fluid operated means.

2,279,854
APPARATUS FOR MAKING ANEROIDS
Kenneth E. Whitney, Baltimore, Md., assignor to Bendix Aviation Corporation, Bendix, N. J., a corporation of Delaware
Application January 2, 1941, Serial No. 372,944
4 Claims. (Cl. 219—13)



1. A device for constructing aneroids, comprising an evacuation chamber, bracket means rigidly mounted within said chamber, means carried by said bracket means including an adjustable member for supporting and aligning a plurality of aneroid walls within said chamber, means communicating with the chamber for creating a vacuum therein, and means coiled about said chamber for conducting alternating current around said chamber, whereby currents are induced in the walls of the aneroids to heat the same in accordance with the current flow in said conducting means.

2,279,855
PACK OF TRANSFER SHEETS
James Wilkes, Jr., Wolverhampton, England
Application March 22, 1940, Serial No. 325,421
In Great Britain March 25, 1939
3 Claims. (Cl. 282—1)

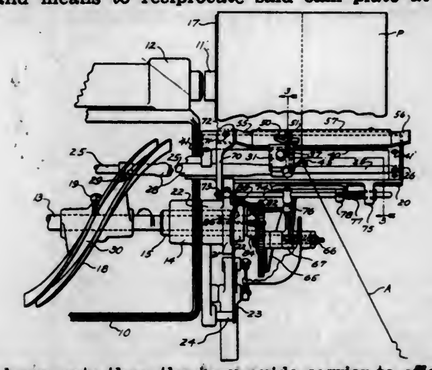


2. A pack of transfer sheets comprising a backing sheet of flexible material, a strip of flexible material, extending across the front of the backing sheet having slits longitudinally along the strip and extending from a distance from one end to a distance from the other end to divide the strip into a number of transverse bars to which the transfer sheets are attached and having unslit portions at each end which are folded around the edges of the backing sheet and fixed by an adhesive to the back of such sheet, and a guide and stop device formed of a strip of springy material formed into a U-shaped configuration, one limb of which is engaged through a closed loop in the rear end of the backing sheet and the width of the material of the said limb being such that the passage between the limbs is maintained parallel with the adjacent face of the backing sheet by engagement with the said loop and means for securing together the ends of the limbs comprising a pin on an inturned end of one limb engaging a perforation in an inturned end of the other limb, such securing means holding the limbs at a distance apart for receiving the continuous stationery and forming a stop of sufficient thickness for engaging behind the platen roller of a typewriter to hold the pack of transfer sheets whilst the continuous stationery is drawn therethrough.

2,279,856
TRAVERSE MECHANISM FOR WINDING MACHINES
Alfred Walter Arterton, Westfield, Mass., assignor to Foster Machine Company, Westfield, Mass., a corporation of Massachusetts
Application April 18, 1941, Serial No. 389,134
5 Claims. (Cl. 242—43)

1. In a winding machine including a rotatable package supporting spindle, a yarn guide carrier, means to reciprocate said carrier longitudinally of the spindle, a yarn guide pivotally mounted

on the carrier, a cam follower secured to the pivot of the yarn guide, a cam plate mounted for reciprocation parallel to the path of reciprocation of the yarn guide carrier, cams carried at opposite ends of said plate and respectively engageable with said follower at opposite ends of the path of reciprocation of the yarn guide carrier, and means to reciprocate said cam plate at a



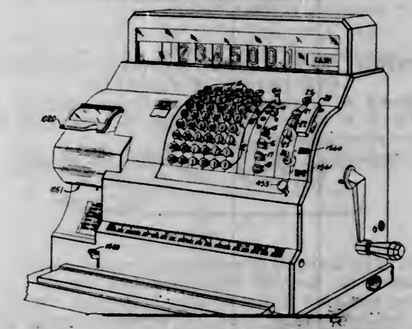
slower rate than the yarn guide carrier to effect a succession of engagements of the follower with one of said cams as said plate moves in one direction to successively swing the yarn guide towards one end of the spindle, and effect a succession of engagements of the follower with the other of said cams as the plate moves in the opposite direction to successively swing the yarn guide toward the opposite end of the spindle.

2,279,857
AIMING AND PROJECTING PLAY APPARATUS
Frank R. Bodnar, Milford, Conn.
Application May 1, 1940, Serial No. 332,753
14 Claims. (Cl. 124—4)



3. A directive ball projecting amusement or gaming device, including the combination of, a base platform, a turret-like standard pivotally mounted on said platform for manually adjustive directional setting about a vertical axis relative thereto, a ball aiming support adapted to hold the ball with a portion of its surface exposed pivotally mounted on said standard for manually adjustive directional setting relative thereto about a horizontal axis intersecting said vertical axis, and a ball striker operatively separate from said ball support pivotally mounted directly on said standard for manually impelled free swinging movement about a horizontal axis relative to said ball support thereby to impinge said exposed surface of the ball while the latter is held by said support.

2,279,858
CASH REGISTER
Ernst Breitling, Berlin-Tempelhof, Georg Topel, Berlin-Reinickendorf, and Otto Philipp, Berlin-Lichtenberg, Germany, assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application November 3, 1938, Serial No. 238,546
In Germany November 19, 1937
35 Claims. (Cl. 235—3)



1. In a machine of the class described, in combination with a plurality of printing platens to take impressions onto issuing record material to form a receipt, a multiple-item receipt issuing means, a multiple-item key, a main operating shaft, and amount keys, of a rockable shaft, a driving connection between the rockable shaft and the main operating shaft said connection being normally disconnected from the main operating shaft, connecting means positionable to one position upon depression of the multiple-item key to connect the driving means to the main operating shaft, a second rockable shaft normally rockable, means positioned upon depression of an amount key to cause the rocking movement of the second rockable shaft, connections between the second rockable shaft and the connecting means to position the connecting means, to another position, upon rocking of the second rockable shaft, to disconnect the connecting means from the main operating shaft to prevent rocking movement of the first named rockable shaft when an amount key is depressed for a machine operation, operating means for one platen, a second operating means for the other platens, control means settable under control of the multiple-item key, a device adjustable under the control of the control means, a coupling means controlled by the device when adjusted to one position under control of the control means to couple the operating means for said one platen to the main operating shaft, and a second coupling means controlled jointly by the said adjustable device and by the first rockable shaft to couple the second operating means to the main operating shaft to cause all of the other of said platens to be operated when no amount key is depressed upon operating the machine with the multiple-item key depressed.

2,279,859
MOLD LUBRICANT
Richard A. Crawford, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application April 11, 1940, Serial No. 329,180
8 Claims. (Cl. 18—47)

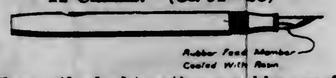
1. The method of preventing adhesion between a mold and a heat-moldable plastic material being heat-molded therein which com-

prises interposing between the mold surface and the plastic material a composition comprising



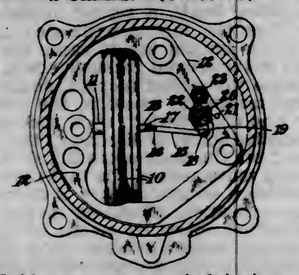
a carbonate compound capable of being decomposed during the heat-molding operation to release gaseous carbon dioxide.

2,279,860
METHOD OF TREATING RUBBER SURFACES AND PRODUCT THEREOF
Richard A. Crawford, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application July 9, 1941, Serial No. 401,620
11 Claims. (Cl. 91—68)



10. The method of treating a rubber surface to improve its wetting characteristics which comprises applying to the surface a solution containing not more than 5.0% by weight of rosin dissolved in a volatile solvent and then evaporating the solvent.

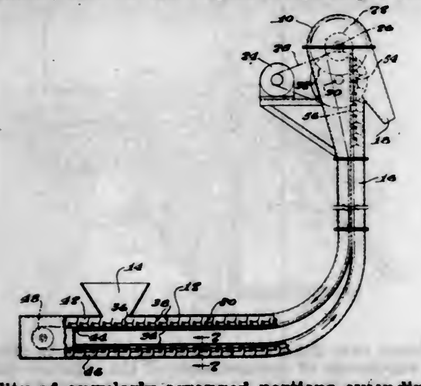
2,279,861
FLUID PRESSURE INSTRUMENT
Wilfred Owen Davis, London, England, assignor to S. Smith & Sons (Motor Accessories) Limited, Cricklewood, London, England, a British company
Application April 30, 1941, Serial No. 391,203
In Great Britain February 16, 1940
2 Claims. (Cl. 73—4)



2. A fluid pressure operated instrument comprising a flexible diaphragm, a diaphragm operated member, a transmission mechanism affording a positive driving connection from the flexible diaphragm to the said operated member, said transmission mechanism comprising a rockshaft, a crank on said rockshaft and a link connecting said diaphragm to said crank, said link having a lost motion connection with said diaphragm, a limiting stop restricting the extent of rotation of said rockshaft, a fixed abutment, and resilient means connected between said fixed abutment and the rockshaft and biassing said rockshaft towards the position in which it is halted by said limiting stop.

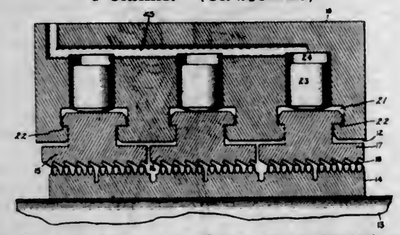
2,279,862
CONVEYER
Alfred De Los Sindeu, Aurora, Ill., assignor, by mesne assignments, to Link-Belt Company, Chicago, Ill., a corporation of Illinois
Application February 23, 1940, Serial No. 320,246
13 Claims. (Cl. 198—172)

1. In a conveyor, or the like, for transporting flowable solid materials, the combination with a flexible drive member, of a plurality of substantially solid, rectangular flights spaced along said drive member, and means extending forwardly of each flight and connected thereto at a point intermediate its front and rear edges, in reference to the flexible drive member, for pivotally attaching the flight to the flexible drive member, each of said flights comprising a plu-



rality of angularly arranged portions extending in opposite directions with respect to the aforesaid pivot means and inclined rearwardly with respect to the direction of force applied to the flight by said means, whereby the flights may be drawn over a horizontally arranged supporting surface without jumping or vibrating and said inclined portions will discharge material by gravity when the flights are unconfined while traveling a vertical path.

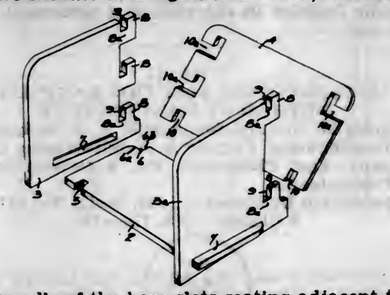
2,279,863
PACKING ARRANGEMENT
John M. Downer, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 28, 1940, Serial No. 358,853
5 Claims. (Cl. 286—10)



1. In a turbine, a packing arrangement comprising a stationary casing having an opening, a packing for sealing the casing to a shaft projecting through the opening comprising a packing ring having a plurality of segments for surrounding such shaft, and hydraulically actuated means associated with the casing and independent of the operation of the turbine for holding the segments in position and radially biasing them towards the center of the opening.

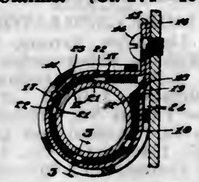
2,279,864
COLLAPSIBLE FILING RACK
Guy R. Eide, Detroit, Mich.
Application December 5, 1941, Serial No. 421,731
3 Claims. (Cl. 211—184)

1. A collapsible filing rack comprising a base, two sides and a back, the base having a slot formed in its front margin adjacent each lateral extremity and its rear margin forwardly and outwardly stepped at its lateral extremities, the sides having substantially horizontal slots formed therethrough intermediately of their length to receive the lateral margins of the base, the trans-



verse walls of the base slots seating adjacent the front extremities of the side slots and the rear extremities of said side slots receiving the steps formed upon the base, the sides also having vertically aligned and rearwardly projecting tongues extending through slots formed in the said back, and said back projecting laterally outward beyond said sides.

2,279,865
SUPPORTING CLIP
Herman Ray Ellinwood, North Hollywood, Calif., assignor to Adel Precision Products Corp., Burbank, Calif., a corporation of California
Application August 24, 1940, Serial No. 354,104
8 Claims. (Cl. 174—40)



1. In a supporting clip, a bendable metallic strap formed into a loop portion for embracing a pipe or conduit and having separable free end portions at least one of which is adapted to be secured to a metallic structure on which it is desired to support the pipe or conduit in electrically grounded relation thereto, a resilient cushion lining the loop portion and leaving bare said end portions, and a metallic strip extending lengthwise of and overlying said cushion and one of said end portions for contact with said pipe or conduit and means for bonding said metallic strip with one of said bare end portions of said strap.

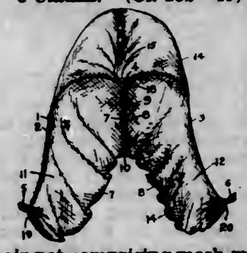
2,279,866
CONDUIT SUPPORTING CLIP
Herman Ray Ellinwood, Burbank, Calif., assignor to Adel Precision Products Corp., Burbank, Calif., a corporation of California
Application August 24, 1940, Serial No. 354,105
13 Claims. (Cl. 174—40)

1. In a clip for supporting and grounding a metallic conduit line, a resilient metallic line embracing strap, a line embracing cushion on said strap, and an inherently tensioned metallic grounding member in electrical connection with and carried by said strap, said grounding member having a portion disposed for yieldingly contacting the line and adapted to exert pressure on the line in addition to that exerted by the em-



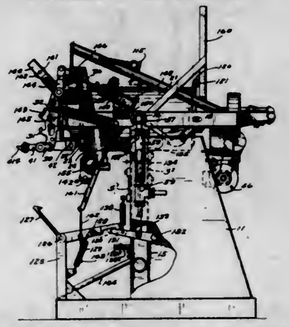
bracing strap so as to ground the line to a metallic structure on which the strap is mounted.

2,279,867
HAIR NET
Isidore Falk, Brooklyn, N. Y.
Application December 2, 1940, Serial No. 368,137
3 Claims. (Cl. 132—49)



1. In a hair net comprising mesh material having elastic parallel side edges, a pair of selvage edges disposed at each side of the longitudinal centerline of said material and having stitches uniting said selvage edges a substantial distance along said selvage edges, wing pieces having parallel sides, one of said sides being a continuation of said elastic parallel side edges and the other of said parallel sides of said wing pieces being a continuation of one of said selvage edges beyond said stitches, said wing pieces disposed where said selvage edges are not united.

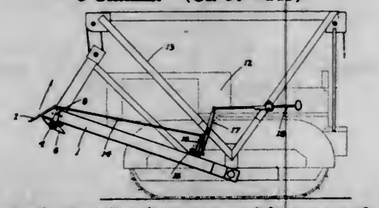
2,279,868
PUFFING GUN
Howard L. Hayden, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware
Application July 24, 1940, Serial No. 347,225
6 Claims. (Cl. 99—238)



1. In a puffing gun, a frame, a carriage having trunnions journalled in the main frame, a gun barrel journalled in said carriage to rotate about its longitudinal axis, means for rotating the gun barrel about its longitudinal axis while in a horizontal position, means for heating the

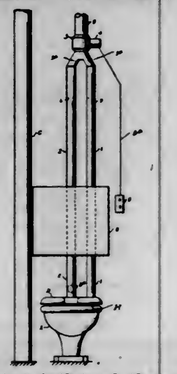
gun barrel, means for closing the muzzle of the gun barrel, a trip release for the closing means, and means for yieldably holding the gun barrel in the horizontal position, the carriage and gun barrel being rotatable about the trunnions downwardly to engage the trip release so that the next upward movement of the gun barrel will cause the trip to release the closing means.

2,279,869
COMBINATION BULLDOZER AND RIPPER
Glenn R. Houston, Lodi, Calif.
Application June 15, 1940, Serial No. 340,717
3 Claims. (Cl. 37—145)



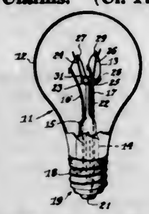
1. A ripper structure comprising spaced supporting beams movable lengthwise along the ground, a transverse shaft turnably mounted on the beams and ripper teeth fixed on the shaft at intervals along the same and disposed at an acute angle to the ground, said teeth, when the beams are disposed at a predetermined level relative to the ground and moving in one direction, dragging on the ground in trailing relation to the direction of movement, means pivotally mounting the beams on a draft vehicle for swinging movement in a vertical plane, and means between the shaft and vehicle and functioning upon upward swinging of the beams to a predetermined position to positively lower the teeth for penetration into the ground upon the lowering of the beams to said predetermined level.

2,279,870
VENTILATION OF WATER CLOSET BOWLS AND SEATS
Roy W. Johnson and William W. Johnson, Memphis, Tenn., assignors of one-fourth to David V. Johnson, Memphis, Tenn., and one-fourth to Fred. W. Johnson, Jackson, Miss.
Application June 7, 1940, Serial No. 339,366
2 Claims. (Cl. 4—216)



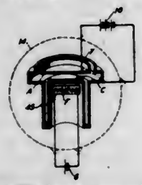
1. In a ventilated toilet of the character described, in combination, a toilet bowl having a flushing rim, a hinged seat mounted on the bowl having vent openings and vent passages extending through the seat hinge, vent pipes connected with the bowl and seat hinge whereby a natural up-draft ventilation of the bowl and seat is had through the vent pipes, the vent pipe of the seat having an injector pipe connection at its upper end with the other vent pipe, said last named vent pipe communicating with an outlet stack pipe and an air impeller in the vent pipe associated with the seat.

2,279,871
INCANDESCENT ELECTRIC LAMP AND METHOD OF MANUFACTURE
Stanley H. Newton, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 1, 1939, Serial No. 307,095
8 Claims. (Cl. 176—16)



1. An incandescent electric lamp comprising a bulb, an arbor enclosed therein and having a button at its free end and integral therewith, a filament supported from said button and an exterior coating of heat-reflecting material applied to the button and terminating short of the support means.

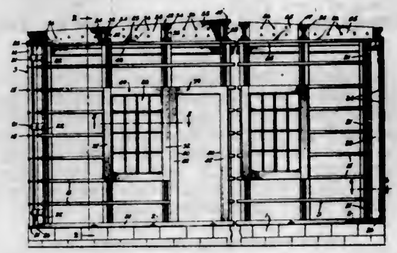
2,279,872
DIODE OSCILLATOR
Frederick B. Llewellyn, Verona, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Original application July 31, 1937, Serial No. 156,647, now Patent No. 2,190,668, dated February 20, 1940. Divided and this application February 17, 1940, Serial No. 319,415
7 Claims. (Cl. 250—36)



3. A diode oscillator comprising a cavity resonator of a single cylinder form, uniformly spaced, opposed, planar end closure elements for said resonator, and means electrically segregating desired portions of said end members from the remaining portions thereof and further means constituting said segregated portions the cathode and anode elements of a diode oscillator.

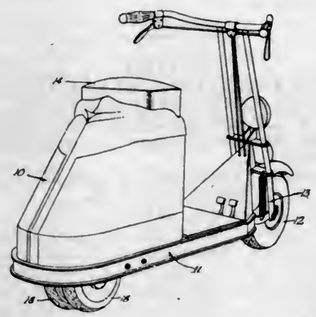
2,279,873
BUILDING STRUCTURE
William J. McDermott, Port Robinson, Ontario, Canada
Application February 3, 1940, Serial No. 317,163
In Canada February 8, 1939
15 Claims. (Cl. 189—1)

1. A building structure, comprising an integral wall frame for each side, means joining the ends of adjacent sides to form an assembled side frame structure, each side frame having a plurality of spaced parallel vertical tubular columns, said columns having a plurality of horizontally aligned slots on the inner and outer



sides thereof, top and bottom plates mounted on opposite ends of said columns, and a plurality of horizontal members rigidly attached in spaced parallel relation in aligned slots on both sides of said columns for supporting the inner and outer wall covering.

2,279,874
ROAD VEHICLE
David C. Rockola, Chicago, Ill., assignor to Rock-Ola Manufacturing Corporation, Chicago, Ill., a corporation of Delaware
Application February 20, 1939, Serial No. 257,395
1 Claim. (Cl. 180—30)

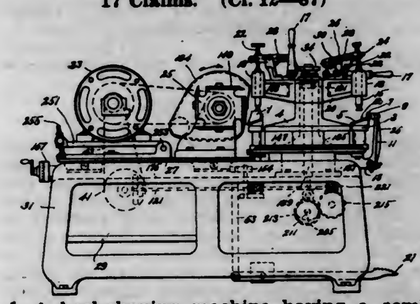


A road vehicle comprising a U-shaped frame having opposite open slots in the lower edges of the arms thereof, a driven axle assembly extending transversely of said frame and having ends located in said slots, a wheel abutment flange secured to said axle assembly intermediate the frame members, an axle driving member on the axle located between the flange and one of said frame arms, a wheel on said assembly having a central recess therein to enable the wheel to be slid longitudinally of the axle assembly, means for releasably securing the wheel in abutting contact with the side of said flange opposite said axle driving member, and means on the ends of said axle for releasably securing the same to said slotted portions of the frame arms whereby upon release of the wheel from said flange and release of the axle from said slots the axle and wheel can be lowered with respect to said frame sufficiently to enable the wheel to be slid along the axle and off the end thereof remote from the driving member.

2,279,875
ACCELERATOR OF VULCANIZATION
Waldo L. Semon, Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application May 12, 1938, Serial No. 207,523
25 Claims. (Cl. 260—792)

1. The process which comprises vulcanizing rubber in the presence of a member of the class consisting of the mercaptoquinolines, their salts, and diquinolyl sulfides.

2,279,876
HEEL-SHAPING MACHINE
Clayton Straw, Henniker, N. H., assignor to Heel Finisher, Inc., Boston, Mass., a corporation of Massachusetts
Application May 13, 1939, Serial No. 273,442
17 Claims. (Cl. 12—37)



1. A heel-shaping machine having a combination means supporting and rotating the heel, a cutter acting on the heel while thus supported and rotated about a fixed axis extending through the heel, and means guiding the supporting and rotating means toward and from the cutter in a circular path, the supporting and rotating means being arrested in its travel along such path while the cutter is acting on the heel.

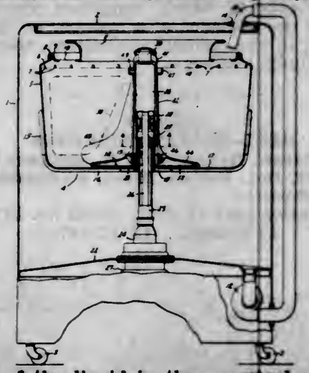
2,279,877
PREPARATION OF FLUORESCENT COATING MATERIAL
William L. Sullivan, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application March 1, 1940, Serial No. 321,669
6 Claims. (Cl. 250—81)

1. The method of preparing a mixture of fluorescent material comprising calcium tungstate having substantially maximum fluorescent output which consists in forming a mixture of tungsten oxide and calcium oxide, controlling the exothermic reaction by preselecting the water content of the mixture to a value approximating 3 to 5% by weight of the mixture, and firing the mixture at a temperature ranging from 950° C. to 1100° C.

2,279,878
WASHING MACHINE
Chauncey G. Suits, Schenectady, N. Y., and Charles K. Skinner, Southport, Conn., assignors to General Electric Company, a corporation of New York
Application February 7, 1940, Serial No. 317,715
2 Claims. (Cl. 68—23)

2. In a washing machine, an outer casing, a

rotatable clothes receptacle adapted to be filled with liquid to a predetermined level, said receptacle being supported therein above the liquid level in the casing so as to drain to the casing and having a central upwardly extending hub therein, an agitator in the receptacle having a body portion surrounding and spaced from said hub, passages in the agitator body adjacent the

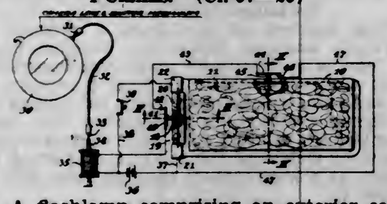


surface of the liquid in the receptacle for conducting surface liquid and particles floating thereon to the space between the agitator body and said hub, a bearing for the agitator on said hub and below said passages, other passages extending through said bearing to below the bottom wall of the receptacle for draining said surface liquid to the casing, and means for returning said liquid from the casing to the receptacle.

2,279,879
DETOXICANT AND METHOD OF PRODUCING SAME
Margaret Cresse, Los Angeles, Calif.
No Drawing. Application March 14, 1938, Serial No. 195,817
6 Claims. (Cl. 167—24)

2. A detoxicant for mineral poisons consisting of finely powdered true carob seed.

2,279,880
PHOTOFLASH LAMP
Michael J. Neumann de Margitta, New York, N. Y., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 26, 1940, Serial No. 315,743
4 Claims. (Cl. 67—29)



1. A flashlamp comprising an exterior casing from the group of plastics of cellulose acetate, casein, pyroxylin, shellac and rubber, combustible material in said casing, and a pair of partitions of which each partition is attached to one casing wall opposite from another wall to which the other partition is attached and leaves a gap between itself and the said opposite wall thereby dividing said casing into a plurality of intercommunicating compartments, each compartment having combustible material therein.

2,279,881
INTERPOLYMER OF DI-(SECONDARY BUTYL) ITACONATE AND ETHYL METHACRYLATE
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application September 12, 1939, Serial No. 294,493
2 Claims. (Cl. 260—78)

1. A composition comprising the product of polymerization of a mixture containing di-s-butyl itaconate and ethyl methacrylate in the ratio of, by weight, 5 parts of the former to 95 parts of the latter, said polymerization product having a higher flexural strength and a higher impact strength than ethyl methacrylate when polymerized alone under similar conditions.

2,279,882
INTERPOLYMERS OF DI-(METHOXYETHYL) ITACONATE AND ETHYL METHACRYLATE
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application September 12, 1939, Serial No. 294,494
2 Claims. (Cl. 260—78)

1. A product of polymerization of a mixture containing di-(methoxyethyl) itaconate and ethyl methacrylate in the ratio of 20 parts of the former to 80 parts of the latter, said polymerization product being hard, clear and colorless and having a higher flexural strength than ethyl methacrylate when polymerized alone under similar conditions.

2,279,883
INTERPOLYMERS OF DIHEXYL ITACONATE AND ETHYL METHACRYLATE
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application September 12, 1939, Serial No. 294,495
2 Claims. (Cl. 260—78)

1. The method of producing an interpolymer having a higher flexural strength than polymeric ethyl methacrylate which comprises forming a mixture containing monomeric dihexyl itaconate and ethyl methacrylate in the ratio of 5 parts of the former to 95 parts of the latter and, in addition to said monomers, a small amount of a polymerization catalyst, and heating the said mixture to produce a solid interpolymer.

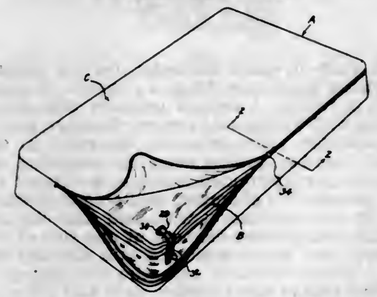
2,279,884
INTERPOLYMERS OF DIBENZYL ITACONATE AND ETHYL METHACRYLATE
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application September 12, 1939, Serial No. 294,496
2 Claims. (Cl. 260—78)

1. The method of producing a new synthetic composition which comprises forming a mixture containing monomeric dibenzyl itaconate and ethyl methacrylate in the ratio of 40 parts of the former to 60 parts of the latter and, in addition to said monomers, a small amount of polymerization catalyst, and heating the said mixture to produce a solid interpolymer.

2,279,885
INTERPOLYMERS OF DI-(ISOBUTYL CARBINOL) ITACONATE AND ETHYL METHACRYLATE
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application September 12, 1939, Serial No. 294,497
2 Claims. (Cl. 260—78)

1. A composition comprising the product of polymerization of a mixture containing di-(isobutyl carbinol) itaconate and ethyl methacrylate in the ratio of, by weight, 5 parts of the former to 95 parts of the latter.

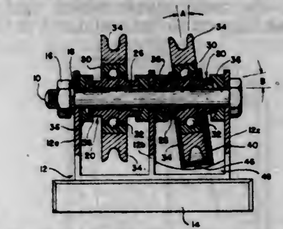
2,279,886
SANITARY MATTRESS
Charles Fuchs, Philadelphia, Pa.
Application May 20, 1940, Serial No. 336,177
1 Claim. (Cl. 5—351)



A mattress comprising an upper frame and a lower frame, a plurality of springs interconnected between said frames, a fabric covering enclosing said springs and frames, a line of stitching holding said fabric covering in position on the frames, a plurality of removable pads resting upon the upper portion of said frames and a plurality of pads attached to the lower portion of said frames, said pads having aligned openings therethrough and along the edges of the pads, a plurality of straps for holding said pads in position, each strap having one end sewed to said fabric covering for the frames, each of said straps passing outwardly from said fabric covering through the complementary pad openings and a portion of said strap rebent substantially parallel to the portion passing through the openings, the ends of said straps meeting and being adapted to be held together, a water-proof covering for the upper portion of said mattress, and a detachable casing of fabric totally enclosing said pads, springs and straps.

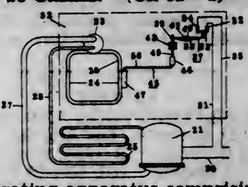
2,279,887
ADJUSTABLE MOUNTING FOR ROTATABLE MEMBERS
Charles E. Hathorn, Kenmore, N. Y., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application November 2, 1938, Serial No. 238,335
9 Claims. (Cl. 254—190)

4. In an adjustable pulley mounting, a bifurcated support bracket, a spindle carried thereby, a pulley hub having a doubly tapered bore extending therethrough to accommodate said spindle, a pair of concave-face washers mounted on said spindle in opposed relationship in contact with said pulley hub and said support member, a pulley rotatably carried by said hub and means to establish contact pressure between said washers, hub and bracket whereby said pulley may be



fixed in adjusted position with respect to said support bracket.

2,279,888
CONTROL SYSTEM
Walter V. Hobbs, Columbus, Ohio, assignor to Ranco Incorporated, Columbus, Ohio, a corporation of Ohio
Application May 31, 1940, Serial No. 338,002
23 Claims. (Cl. 62—4)

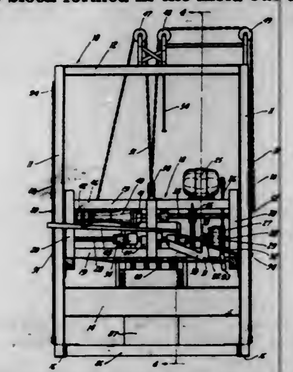


1. Refrigerating apparatus comprising in combination, a heat absorber; means for cyclically circulating refrigerant through the absorber, each of the cycles including a running phase and an inactive phase; and control means including a closed system containing a volatile liquid, one portion of said system being responsive substantially solely and at all times to the temperature of the heat absorber, the quantity of liquid contained in said system and the relative capacity of said portion being such that all of said liquid is contained in said portion under one normal operating temperature of the heat absorber and under another normal operating temperature of the heat absorber the capacity of said portion is insufficient to hold all said liquid, a second portion of said system being subjected to the medium cooled by the heat absorber and being connected with the first mentioned portion to receive the excess liquid from the first mentioned portion when the heat absorber is at the second mentioned operating temperature, and means responsive to condensation of the gas of the liquid in the first mentioned portion of said system for changing from one of the phases of the cycle of the circulating means to the other.

2,279,889
CONCRETE BLOCK MACHINE
George W. Kramer, deceased, late of Kewanee, Ill., by Dorothy Pervan, executrix, Kewanee, Ill.
Application November 3, 1939, Serial No. 302,718
5 Claims. (Cl. 25—41)

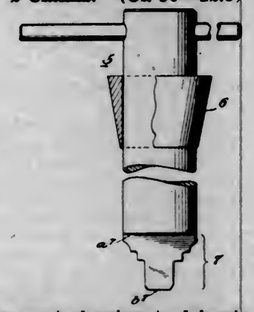
1. In a block-forming machine, the combination comprising a substantially vertical guide, a carriage guided for movement thereby, a block-forming mold fixed with respect to the guide and open at its upper end, said mold being fixed below and in the line of movement of said carriage, tamping means carried by said carriage in a position to extend into the mold in a lowered

position of the carriage, an elevating mechanism below said mold arranged to extend into the bottom of the mold when raised and thereby raise a block formed in the mold out of the mold,



and means responsive to raising of said carriage to effect raising of said elevating mechanism after the tamping means has been removed from the mold by raising of the carriage.

2,279,890
VALVE SEATING TOOL AND METHOD
Jesse D. Langdon, Los Angeles, Calif.
Application December 18, 1939, Serial No. 309,893
2 Claims. (Cl. 90—12.5)



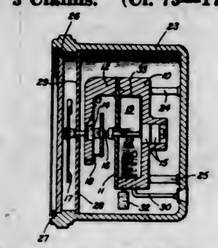
2. A valve seat shaping tool having a cutting edge formed in a series of steps at least one step rounded to form a guide medium for a valve, the distal end of said tool extended to form a pilot, said tool having a shank, a conical guide slidable on said shank and cooperable with said pilot to guide said tool and hold same in true operative alignment.

2,279,891
HEEL
John A. Maselter, Chicago, Ill.
Application January 18, 1940, Serial No. 314,395
3 Claims. (Cl. 36—59)



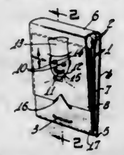
1. A heel including a body portion, a plurality of circular ribs extending below the tread surface, the crests of said ribs being in a plane at an acute angle to said tread surface, and spaced radial web-like projections connecting adjacent ribs.

2,279,892
ALTITUDE COMPENSATION FOR RATE OF CLIMB INDICATORS
Wladimir A. Reichel, Hackensack, N. J., assignor to Bendix Aviation Corporation, Bendix, N. J., a corporation of Delaware
Application October 30, 1940, Serial No. 363,555
3 Claims. (Cl. 73—179)



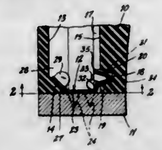
1. A rate of climb indicator for an aircraft, comprising means providing a pressure chamber, means providing a second pressure chamber, a dividing wall within said second chamber, a pressure actuated vane rotatably mounted in said second chamber, means normally retaining said vane in a predetermined position, a diffuser element in said first chamber, said second chamber being in communication with said first chamber through said diffuser element at one side of said pressure vane and one side of said dividing wall and in communication with the atmosphere at the other side of said pressure vane and the other side of said dividing wall whereby a constant differential in pressure is maintained on the two sides of said pressure vane during a constant rate of change in craft altitude, said pressure vane forming a clearance gap between an edge thereof and a wall of said second chamber whereby the vane is rotated in response to said pressure differential against the action of said retaining means and air is caused to flow through said gap to cause equalization of pressures on the two sides of said vane, and indicating means actuated by said vane, said retaining means normally resiliently urging said indicating means to a predetermined position.

2,279,893
MATCH BOOK CONTAINER
Donald P. Ross and John J. Sheridan, New York, N. Y.
Application May 28, 1938, Serial No. 210,572
12 Claims. (Cl. 40—126)



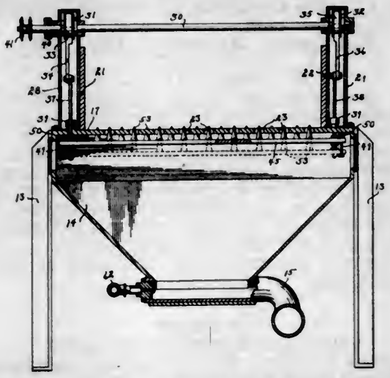
12. A match book, containing a match comb enclosed by a flexible elongated cover, having on one side thereof an inner and an outer cover, said inner and outer covers having counterpart designs or intelligence thereon with a cut-out portion on said outer cover through which the counterpart of the inner cover is visible, said outer cover being laterally movable relatively to the inner cover to produce changes in the design or intelligence as the two parts are moved relatively to each other, and means retaining said inner and outer covers in overlapping relation while being relatively moved to produce the changes in design or intelligence.

2,279,894
HEEL CONSTRUCTION
Louis E. Sauer, University City, and Henry N. Pearson, St. Louis, Mo., assignors to Pearson Heel Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application February 24, 1940, Serial No. 320,544
6 Claims. (Cl. 36—42)



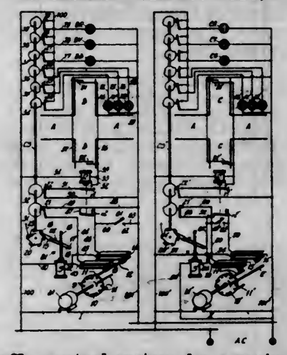
1. A member and a heel element, and interengaging means between the two, said means including an opening and means engaging in the opening, said opening having a sloping surface extending upwardly and outwardly from the common surface between the member and element, the engaging means having an element extending from said common surface into the opening spaced from the wall around the opening, and an upper portion on the element overhanging into engagement with the sloping surface, and said engaging means element being urged against said sloping surface.

2,279,895
MINERAL SEPARATOR
Joseph C. Shannon, Alma, Colo.
Application March 1, 1939, Serial No. 259,162
3 Claims. (Cl. 209—458)



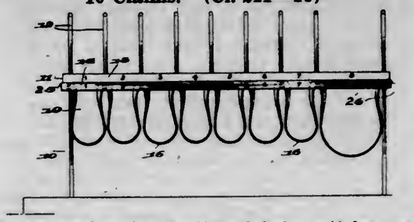
1. In a gravity concentrator, a sluiceway having a bottom comprising a plate having a substantially flat top surface, a plurality of spaced apart groups of holes extending through said plate, a housing enclosing the bottom of said plate in sealed relation therewith, said housing having a discharge pipe opening thereinto, and a suction pipe having a suction pump operatively attached thereto outwardly of said housing, said suction pipe being connected to said discharge pipe to create suction through said holes in said plate.

2,279,896
TRAFFIC ACTUATED SIGNALING APPARATUS
Harry A. Wilcox, Norwalk, Conn., assignor to Automatic Signal Corporation, East Norwalk, Conn., a corporation of Delaware
Application December 15, 1939, Serial No. 309,314
12 Claims. (Cl. 177—337)



9. A traffic control system for a main road and cross road including electric right of way signals for the respective roads, means actuatable by traffic in the cross road, a step-by-step cyclic switch actuatable for operating said signals through a cycle including right of way periods for the respective roads, an electromagnetic device for so actuating said cyclic switch, a continuously operating motor, a disc rotated by said motor, pins adjustably spaced in said disc, a circuit closer in position to be operated momentarily by each of said pins as said disc is rotated, a second circuit closer, in position not to be actuated by said pins, an auxiliary pin in said disc in position to operate said second circuit closer at one point in each cycle of rotation of said disc, a relay, a third circuit closer opened by said cyclic switch only in one step of the latter near the end of the main road right of way period, a fourth circuit closer operated by operation of said relay, a normal operating circuit for said electromagnetic device including the first and third circuit closers in series, an auxiliary operating circuit for said electromagnetic device including said second circuit closer and said fourth circuit closer in series, an operating circuit for said relay connected with said traffic actuatable means to operate said relay responsive to traffic actuation, another circuit closer opened by said cyclic switch only in one step of its cycle during the cross road right of way period, and a lock-in circuit for said relay including said other circuit closer.

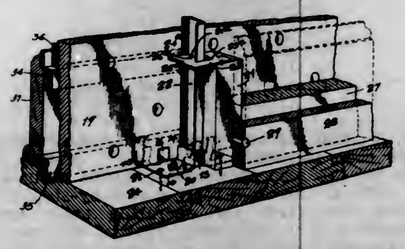
2,279,897
SORTING HOLDER MEANS FOR HOSIERY
Edward R. Ammon, Reading, Pa.
Application November 24, 1939, Serial No. 306,021
10 Claims. (Cl. 211—10)



2. Apparatus for sorting fabric articles com-

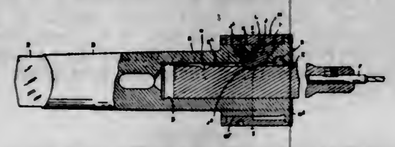
prising a sorting rack formed with a series of upstanding partitions dividing the rack into a row of pockets adapted to receive sorted articles, and a portable holder for transporting sorted fabric articles from the rack comprising a first length of fabric stripping detachably mounted across the rack forming a series of article-receiving loops aligned with the different rack pockets, and a second length of fabric stripping engaging with the first length of stripping between the different article-receiving loops.

2,279,898
WALL CONSTRUCTION
Harry H. Burson, Chicago, Ill., assignor to Norman C. Speng, Chicago, Ill.
Application August 4, 1939, Serial No. 288,321
19 Claims. (Cl. 20—4)



1. A clip of the class described, comprising a base plate having in its medial portion angularly extending spaced walls connected by an angularly extending bridge to provide a channel shaped socket for the reception of a beam or studding, and having a nailing prong projecting from the base plate at substantially right angles thereto and terminating in an outwardly presented point and adapted to have a nailing block forced by direct pressure thereonto.

2,279,899
TOOL HOLDER
Charles A. Cherry, Detroit, Mich., assignor, by mesne assignments, of one-half to Francis W. Haines, Detroit, Mich.
Application November 6, 1939, Serial No. 303,125
4 Claims. (Cl. 279—31)



1. A tool holder comprising a member having an axially extending cylindrical socket therein and a transverse bore in the wall of said socket inclining rearward in an inward direction, a member having a cylindrical shank for engaging said cylindrical socket and with a transverse V-shaped groove therein, a member slidable in said transverse bore having its inner end wedge-shaped to be parallel with and engage said V-shaped groove, and a sleeve rotatable upon said socket member provided with an eccentric recess forming a cam for engaging the outer end of said slidable member whereby said shank is locked or unlocked by the rotation of said sleeve and when locked is exactly positioned in said socket axially, radially and rotatively.

2,279,900
SEPARATING AND SEPARATELY RECOVERING ZINC AND NICKEL
Arthur L. Christensen, Woodbridge, N. J., assignor to International Smelting and Refining Company, a corporation of Montana
No Drawing. Application July 18, 1940, Serial No. 346,151
8 Claims. (Cl. 75—63)

1. The process of separating and separately recovering copper, zinc and nickel from non-ferrous secondary metal containing copper, zinc, and nickel, which comprises forming from said metal anodes containing the bulk of the copper and nickel and at least a small amount of the zinc originally present in the secondary metal, subjecting said anodes in a sulphuric acid electrolyte to electrolysis under such conditions that substantially pure copper is deposited at a cathode and zinc and nickel from the anodes is dissolved in the electrolyte, periodically withdrawing a portion of the electrolyte from the electrolysis operation, concentrating the withdrawn portion of electrolyte and crystallizing a mixture of zinc and nickel sulphates therefrom, returning the mother liquor from the crystallizing step to the electrolysis operation, substantially drying the crystallized mixed sulphates, thereafter charging the mixed sulphates into a suitable furnace, heating the charge in the furnace to a temperature sufficiently high and for a sufficient period of time to form therefrom a mixture of nickel and zinc oxides, thereafter introducing finely divided coke into the furnace, heating the mixed oxides in contact with the coke at a sufficiently high temperature and for a sufficient period of time to form a vaporize metallic zinc and to form molten metallic nickel, withdrawing and collecting the vaporized zinc in suitable form, and separately withdrawing the molten metallic nickel.

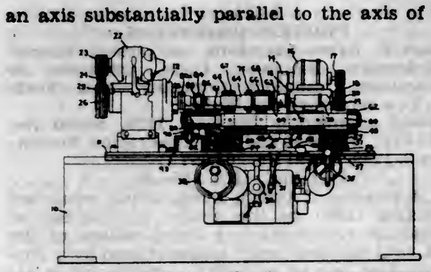
2,279,901
FORMATION OF PLASTIC SHEETS
Dario Domizi, Parma, Ohio, assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application July 9, 1938, Serial No. 218,392
10 Claims. (Cl. 18—57)

1. In the process of calendering into sheets suitable as interlayers for laminated glass heated masses of a plastic composition essentially composed of a water-insoluble polyvinyl partial acetal resin in combination with a plasticizer, the steps of introducing an unsheeted mass of said plastic composition in the bight of a pair of heated rollers, at least one of which has a frosted or matte finish, and rotating said rollers to form a sheet of uniform thickness from said mass of plastic composition.

2,279,902
PISTON GRINDING MACHINE
Clarence J. Green, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application August 14, 1940, Serial No. 352,567
12 Claims. (Cl. 51—101)

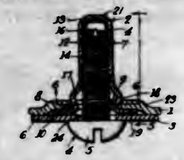
1. In a grinding machine having a base, a rotatable grinding wheel, a transversely movable rotatable work support, means including a master cam and a follower to impart a transverse movement to said work support, an oscillatable platen to support said work support which is oscillatable about an axis normal to said transverse movement, and means including a cam and a follower to oscillate said work support about

an axis substantially parallel to the axis of the



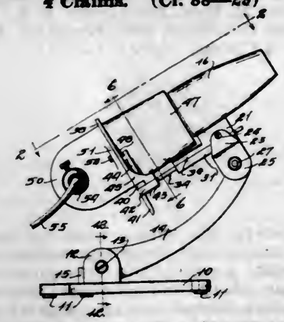
grinding wheel during the transverse movement of the work support.

2,279,903
NUT MEMBER
Frank E. Johnson, Malden, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application May 29, 1940, Serial No. 337,809
6 Claims. (Cl. 85—32)



1. A nut device formed from an elongated strip of sheet metal and having a yieldable U-shaped shank capable of self-expansion after contraction and being in the form of a pair of legs joined at the bottom end, a flange extending outwardly from each of said legs at the top end of said shank, said shank having a number of thread convolutions on its inner surface to receive a screw and each leg having a rigid nut-holding portion extending transversely to the axis of said shank across the entire width of said respective leg, said nut-holding portions being spaced from the flanges to receive a support between the flanges and the nut-holding portions when the shank is passed through an aperture in the support.

2,279,904
STEREOSCOPE
Donald P. Mossman, Meadville, Pa., assignor to Keystone View Company, Meadville Pa., a corporation of Pennsylvania
Application December 21, 1940, Serial No. 371,180
4 Claims. (Cl. 88—29)



1. In a stereoscope, focusing means for the eye-piece, a hollow boss extending downwardly from the bottom of said eye-piece and provided with front and rear walls having oppositely disposed passages therein, a spring housing extending rearwardly from the rear wall of said boss and provided with a rear wall having an opening alined with said passages and with a top wall spaced above said opening, a picture frame carrying sliding bar extending through said opening and passages, and spring friction means disposed in said housing between said top wall and sliding bar.

2,279,905
SWITCH
Howard J. Murphy, Greenwood, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application March 11, 1939, Serial No. 261,382
5 Claims. (Cl. 200—166)



1. In an electrical device the combination comprising an insulating panel having an aperture, a wire conductor having a terminal at one end thereof, an attaching member secured to said panel, said attaching member having a base portion disposed on one side of said panel and a pair of opposed yieldable arms extending from said base through said aperture of said panel and beyond an opposite side thereof, said terminal being disposed between said arms and normally in abutting engagement with said last-mentioned side of said panel, said arms having means engaging said terminal to hold the same in said abutting engagement with said panel between said terminal-engaging means and said panel.

2,279,906
MAGNETIC VIBRATING THERAPEUTIC APPLIANCE
Frank Harry Newton, Los Angeles, Calif.
Application December 14, 1940, Serial No. 370,167
5 Claims. (Cl. 128—41)

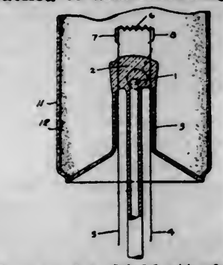


2. In an apparatus of the class described, a platform seat, an electromagnet and an armature therefor associated below the said platform and mounted to vibrate said platform, an electrical circuit for said magnet, a switch in said circuit actuated in closing the said circuit by a movement downward of said platform by a weight thereon, a variable resistor in said circuit, a vibratory spring actuated by magnetic impulses of said magnet and means connected to said vibratory spring to actuate the said variable resistor to automatically vary its conductive capacity.

2,279,907
ELECTRIC DISCHARGE LAMP
Dana W. Atchley, Jr., Salem, Mass., assignor to Hygrade Sylvania Corporation, Salem, Mass., a corporation of Massachusetts
Application September 12, 1940, Serial No. 356,461
3 Claims. (Cl. 176—126)

1. In a stem for electric gaseous discharge

lamps having a coating of luminescent material therein and a vent in the side of the stem: lead-wires projecting through the top of said stem, an arm attached to and extending from one of



said lead wires, and a shield attached to the end of said arm and located near and in line with said vent, said shield protecting the luminescent coating on the walls of the lamp from the vent discharge.

2,279,908

PROTEIN DIGESTION

Gilbert B. Ayres, Stamford, and Joseph George Niedercorn, Riverside, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

Original application June 16, 1939, Serial No. 279,470. Divided and this application November 9, 1939, Serial No. 303,554

4 Claims. (Cl. 195—6)

4. A process of bating hides which comprises subjecting them to the action of enzymes of *Aspergillus fumigatus* in a dried culture of the mold, said enzymes being characterized by a uniformly high rate of proteolytic activity under alkaline conditions within a pH range up to about 9.5, and in the presence of ammonium sulfate.

2,279,909

PROTEIN DIGESTION

Gilbert B. Ayres, Stamford, and Joseph George Niedercorn, Riverside, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

Original application June 16, 1939, Serial No. 279,471. Divided and this application November 9, 1939, Serial No. 303,555

4 Claims. (Cl. 195—6)

4. A process of bating hides which comprises subjecting them to the action of enzymes of *Penicillium camemberti* in a dried culture of the mold, said enzymes being characterized by a uniformly high rate of proteolytic activity under alkaline conditions within a pH range up to about 9.5, and in the presence of ammonium sulfate.

2,279,910

PROTEIN DIGESTION

Gilbert B. Ayres, Stamford, and Joseph George Niedercorn, Riverside, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

Original application June 16, 1939, Serial No. 279,472. Divided and this application November 9, 1939, Serial No. 303,556

4 Claims. (Cl. 195—6)

4. A process of bating hides which comprises subjecting them to the action of enzymes of *Penicillium brevicaule* in a dried culture of the mold, said enzymes being characterized by a uniformly high rate of proteolytic activity under alkaline conditions within a pH range up to about 9.5, and in the presence of ammonium sulfate.

2,279,911

PROTEIN DIGESTION

Gilbert B. Ayres, Stamford, and Joseph George Niedercorn, Riverside, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

Original application June 16, 1939, Serial No. 279,473. Divided and this application November 9, 1939, Serial No. 303,557

4 Claims. (Cl. 195—6)

4. A process of bating hides which comprises subjecting them to the action of enzymes of *Penicillium roqueforti* in a dried culture of the mold, said enzymes being characterized by a uniformly high rate of proteolytic activity under alkaline conditions within a pH range up to about 9.5, and in the presence of ammonium sulfate.

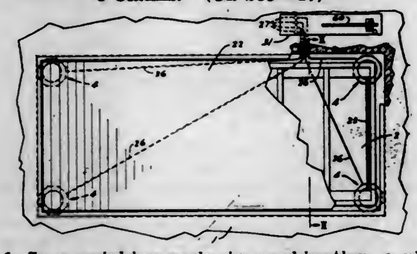
2,279,912

HYDRAULIC FORCE TRANSMISSION FOR WEIGHING SCALES

Robert S. Bohannan, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey

Application October 17, 1939, Serial No. 299,831

5 Claims. (Cl. 265—47)



1. In a weighing scale, in combination, a plurality of capsules adapted to contain liquid, each of said capsules having a diaphragm adapted to be pressed against such liquid, a standard so supported by each of said capsules as to exert pressure upon its diaphragm, means rigidly connecting certain of said standards to others of said standards to prevent separate tilting thereof, a load receiving structure, and means supporting said load receiving structure from said standards, said supporting means being yieldable to permit temporary horizontal shifting of said load receiving structure.

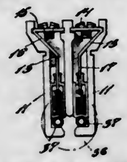
2,279,913

LAMP SOCKET

John F. Cavanagh, Providence, R. I., assignor to Guy H. Burt, Providence, R. I.

Application October 3, 1941, Serial No. 413,444

4 Claims. (Cl. 173—328)



1. A socket for use with a lamp having a pair of spaced contact pins, comprising a base of insulating material, a pair of slidable contacts in said base, a single slot in the face of said base extending to the edge thereof and of a width to receive either of the contact pins, and undercut on each side to a width equal to the lamp pins to provide abutments opposite each of said slidable contacts,

resilient means for urging the contacts toward the abutments whereby said contact pins may be inserted in said slot at the edge of the base and moved to a position to be forced against said abutments by said contacts.

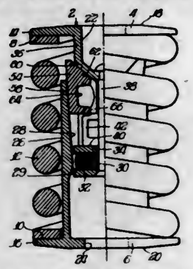
2,279,914

FRICTION ABSORBING DEVICE

Robert B. Cottrell, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey

Application February 21, 1940, Serial No. 320,149

33 Claims. (Cl. 267—9)



1. In a snubber, a coil spring, top and bottom followers seated thereagainst, one of said followers having an integral barrel extending within said spring and presenting internal tapering friction faces arranged in two sets along axes at approximately ninety degrees to each other, the other of said followers supporting a clutch mechanism within said barrel, said clutch mechanism comprising an auxiliary resilient member and two sets of friction shoes arranged in series between said other follower and said auxiliary resilient member in abutment with said sets of faces respectively, one set of said shoes having diagonal face engagement with said last-mentioned follower and with the shoes of the other set, and stop means on said barrel follower limiting the movement of said clutch mechanism and affording maximum compression for said auxiliary resilient member adjacent the end of the stroke.

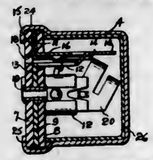
2,279,915

SOCKET DEVICE FOR LAMPS AND THE LIKE

George F. Cram, Detroit, Mich., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Application July 19, 1939, Serial No. 285,289

1 Claim. (Cl. 173—328)



A socket contact of the class described including a part formed from sheet metal having a support-engaging portion, a rectangular box-like portion extending from said support-engaging portion in angular relation and being open at the end nearest the support-engaging portion to permit entrance of a flat prong, and a second part having a flange portion in superposed abutting relation to said support-engaging portion and a finger portion integral with said flange portion and extending in angular relation thereto, said support-engaging portion and said flange portion being adapted to be disposed between superposed insulating plates thereby to secure said contact to said plates, said finger portion being located in the box-like portion to cooperate with the box-like portion to make a good electrical contact between the socket contact and the said flat prong.

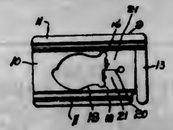
2,279,916

FASTENER MEMBER AND FASTENER INSTALLATION

Scipione M. Del Camp, Maywood, Ill., assignor to Cinch Manufacturing Corporation, Chicago, Ill., a corporation of Illinois

Application November 24, 1939, Serial No. 305,968

4 Claims. (Cl. 24—73)



1. A spring sheet metal fastener having a base portion adapted to be disposed within a hollow member and shaped to engage the inner surfaces of said hollow member and a pair of flat yieldable socket-engaging portions integrally joined to said base and extending outwardly therefrom, said socket-engaging portions being taken entirely from material within the marginal edges of said base, and said base having an opening surrounded by a continuous imperforate wall from which said material was taken to form said socket-engaging portions.

2,279,917

CONTINUOUS FURNACE

Dexter Edge, Gary, Ind.

Application March 9, 1940, Serial No. 323,205

15 Claims. (Cl. 266—3)



1. Heat treating apparatus comprising an enclosure for work, an elongate radiant work heat exchanging surface in said enclosure having respectively higher and lower temperatured longitudinal portions and means for ejecting a high velocity gas stream into said enclosure longitudinally of said higher temperatured portion and contacting the same.

2,279,918

EXPANDING POLE KEY

Edward M. Fee, Northbrook, and Charles R. Murrie, Deerfield, Ill., assignors to R. B. Chance Company, Centralia, Mo., a corporation of Missouri

Application May 13, 1940, Serial No. 335,008

10 Claims. (Cl. 189—92)

1. In an expanding pole key, the combination of a bearing plate provided with a flange adapted to engage the earth at the bottom of a hole in the earth and provided with a flange extending transversely to the first-mentioned flange, a pair of substantially plane blades pivotally mounted adjacent their lower ends to said latter flange, said blades extending in substantially parallel planes and transversely to said first-mentioned flange, a link secured to each of said blades for pivotally moving said blades from an overlapping

position to a position of maximum spread, and means for pivotally securing the ends of said



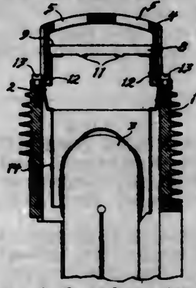
links together whereby force may be simultaneously applied to both blades.

2,279,919
KNITTED PILE FABRIC
Harry Fleisher, Watertown, Conn., assignor to Princeton Knitting Mills, Inc., Watertown, Conn., a corporation of Connecticut
Application May 23, 1941, Serial No. 394,779
4 Claims. (Cl. 66—191)



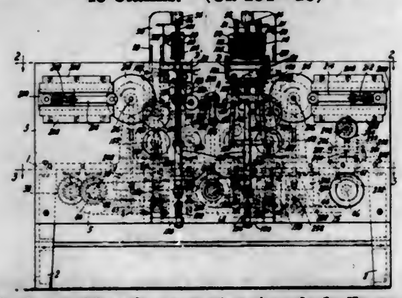
1. A knitted pile fabric consisting of a repeating series of courses, each series consisting of at least one course having floated pile loops at every odd numbered wale and inlaid loops at every even numbered wale, one course having floats at every even numbered wale and plain stitches at odd wales, and a course of plain stitches.

2,279,920
VENTILATING LIGHT TRAP
Albert S. Howell, Chicago, Ill., assignor to The Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application May 26, 1939, Serial No. 275,886
1 Claim. (Cl. 240—47)



In a device of the character described, the combination with a lamp house comprising a body provided with an opening and a cap provided with a ventilating opening detachably positionably over said body opening, of a light trap disposed within the enclosure of said lamp house and cap and comprising a flat mass of opaque strands irregularly commingled in all directions, reticulated retaining members overlying opposite sides of said mass, and a securing structure circumscribing said mass and provided with securing portions overlying the outer faces of said retaining members to confine said mass and retaining members in their aforesaid assembly, and common means detachably securing said cap securing structure on said lamp house body with said mass extending across said ventilating opening.

2,279,921
MACHINE FOR COVERING BALLS
Walter E. Humphrey, Jeannette, Pa.
Application September 16, 1939, Serial No. 295,000
43 Claims. (Cl. 154—16)



1. A machine for covering tennis balls or the like, comprising a ball core support, a flexible applicator of Cassinian outline, means to insert a preformed ball cover section in the applicator, and means to bring the applicator and the ball core into contact.

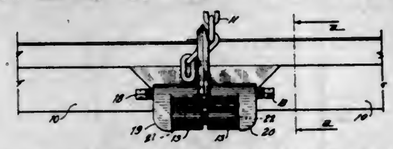
2,279,922
CLEANING DEVICE
Warren A. Kraner, San Francisco, Calif.
Original application August 2, 1937, Serial No. 156,859. Divided and this application February 12, 1940, Serial No. 318,534
4 Claims. (Cl. 15—104.04)



4. In a cleaning device, a shaft, a plurality of circumferentially spaced studs carried by said shaft for rotation about the axis thereof, a plurality of hammers having elongated slots engaging said studs to provide for pivotal movement of said hammers about said studs and for radial movement of said hammers relative to said shaft, and buffers of resilient material between said studs and circumferentially spaced from said hammers to limit the swinging movement of said hammers, said buffers comprising a plurality of studs with each stud having a covering of resilient material.

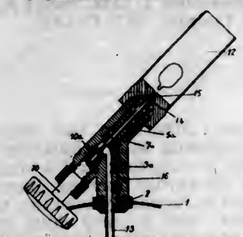
2,279,923
CONNECTOR FOR SHAKER CONVEYERS
John A. MacPherson and Edward Lasnik, Erie, Colo.
Application March 28, 1941, Serial No. 385,614
6 Claims. (Cl. 198—220)

1. A connector for a shaker conveyer of the type having pans terminating in aligned bolt loops comprising: a pair of L-shaped jaws; a threaded passage extending throughout the length of the longer leg of each jaw, the respective passages being oppositely threaded; a clamp screw having oppositely threaded extremities



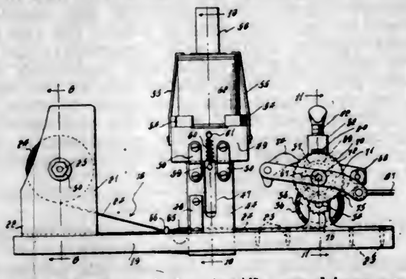
passing through said passages; wrench engaging faces in the extremities of said screw; and a stud extending inward from the shorter leg of each jaw in alignment with each other.

2,279,924
PREHEATER FOR LIGHTING AND HEATING APPARATUS
Max Marowsky, Berlin, Germany
Application December 15, 1938, Serial No. 246,005
In Germany June 8, 1938
4 Claims. (Cl. 158—81)



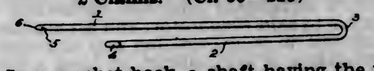
1. A preheater for illuminating and heating apparatus fed by liquid fuel under air pressure, comprising in combination a reservoir for fuel, a valve body having an outlet nozzle and air and fuel passages communicating with the reservoir, a fuel feed pipe within the valve body defining an annular passage therearound for air, a valve stem in said valve body, an insertion pin in said fuel feed pipe reducing the effective cross sectional area thereof and loosely secured at one end to said valve stem, a cleaning needle provided on the insertion pin for the outlet nozzle.

2,279,925
YARN MARKER ATTACHMENT FOR TEXTILE MACHINES
George B. McCombs, Magnolia, Miss., assignor of one-half to R. L. Fuller, Magnolia, Miss.
Application June 12, 1941, Serial No. 397,807
10 Claims. (Cl. 28—28)



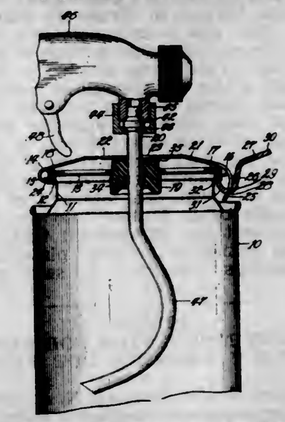
1. On attachment for textile machines comprising a frame mounted on a slasher, transversely thereof, said slasher having a sheet of warp threads passing therethrough, means for mounting a roll of tape at one end of said frame, the tape being provided with an adhesive on one side thereof, a roller mounted in the opposite end of the frame and on which the free end of the tape is wound, a plunger mounted on said frame intermediate of its ends and arranged to move vertically, said plunger having a cutter on its lower end, an opening in said frame through which the plunger moves on its down stroke, said tape being arranged to move over said opening to be engaged by the plunger on its down stroke for cutting a piece from the tape, and a solenoid disposed around the upper portion of the plunger for drawing the plunger downwardly, when the solenoid is energized, said frame being disposed above and adjacent the warp and arranged so that the piece of tape cut from the roll by said plunger will be applied by the plunger to threads of the warp.

2,279,926
CROCHET HOOK
Elmer Graybill Neuschwanger and Henrietta C. Neuschwanger, Whiting, Kans.
Application October 18, 1940, Serial No. 361,770
2 Claims. (Cl. 66—118)



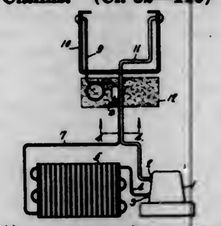
1. In a crochet hook, a shaft having the usual hook at one end, and having the opposite end bent half round extending the shaft back approximately four-fifths of the length of the shaft before the bend and making the long and short parts of the shaft parallel to each other, and approximately three-sixteenths of an inch apart and having the short part of the shaft lie in the plane which passes through the long part of the shaft and the point of the hook and having a circular end opposite the bent end in the short part of the shaft, this circular end being approximately one-half inch in diameter.

2,279,927
CONTAINER ADAPTER FOR SPRAY GUNS
Carl F. Noth, Chicago, Ill.
Application May 2, 1938, Serial No. 205,496
9 Claims. (Cl. 221—1)
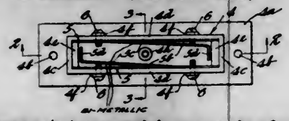


1. A container lid having a tube therethrough, compressible material between the tube and the lid, and means for compressing said compressible material simultaneously with the locking of said lid to a container.

2,279,928
DOMESTIC REFRIGERATOR
Malcolm G. Shoemaker, Abington, Pa., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application September 21, 1940, Serial No. 357,815
4 Claims. (Cl. 62—116)



1. Refrigerating apparatus comprising, in combination, a heat insulated cabinet including a food storage compartment and a mechanism compartment, an evaporator in said food storage compartment, a compressor and a condenser in said mechanism compartment, a suction conduit connecting said evaporator and said compressor, a refrigerant feed line connecting said condenser to said evaporator, and a moisture retaining unit in said feed line and embedded in the insulation of said cabinet, at least a portion of said feed line between said condenser and said unit being in heat exchange relation with said suction line.

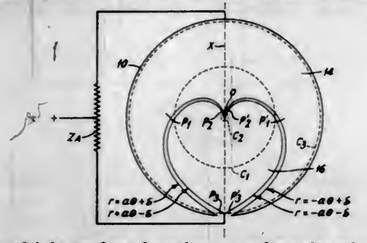
2,279,929
THERMOSTAT
Mitchell J. Schoumaker, Minneapolis, Minn., assignor of one-fourth to Joseph G. Haeg
Application March 11, 1940, Serial No. 323,256
8 Claims. (Cl. 200—138)



1. A thermostat comprising, a pair of relatively long, generally rectangular bi-metallic plates, each of said plates being longitudinally slotted from one end thereof to a point short of the remaining end thereof to divide the plate into a mounting base and a swingable arm interconnected by the unslotted end portion of the plate, a supporting structure to which the base portions of said plates are secured in mutually facing, parallel, spaced relation with the unslotted portions of said plates at opposite ends, said plates being so faced that the arm of each will flex toward the unslotted portion of the other responsive to a temperature change in a predetermined direction, the free end of the arm of each plate being formed into an electrical contact element for engagement with the unslotted end portion of the other plate, and electrical terminals connected to said respective plates.

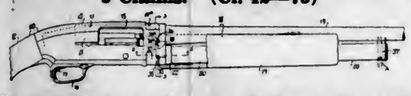
2,279,930
ELECTRONIC MODULATOR FOR CONSTANT FREQUENCY VARIABLE DOT TRANSMISSION
Robert Evart Shelby, Teaneck, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Original application September 14, 1936, Serial No. 100,627. Divided and this application July 28, 1939, Serial No. 287,019
13 Claims. (Cl. 250—151)

2. An electron discharge device having a target comprising a plurality of superimposed surface bearing members arranged about a focal point, one



of which surface bearing members is substantially of a shape defined by the intersection of two Archimedes spirals.

2,279,931
TAKEDOWN FIREARM
Carl G. Swebilius, Hamden, Conn., assignor, by mesne assignments, to Western Cartridge Company, a corporation of Delaware
Application December 1, 1938, Serial No. 243,378
5 Claims. (Cl. 42—75)

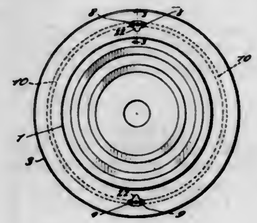


5. A take-down firearm of the reciprocating-barrel type, including in combination: a butt-unit comprising a buttstock and a receiver provided with a forwardly-opening barrel-receiving passage and a forwardly-opening magazine-receiving socket; and a barrel-unit comprising a forestock, a barrel axially movable with respect to the said forestock and the receiver of the said butt-unit and having a rear-portion extending into the barrel-receiving opening of the said receiver and reciprocating therein with freedom for axial withdrawal therefrom and the said barrel being free of threaded connection with the said receiver, and a tubular magazine extending in substantial parallelism with the said barrel and movable axially with respect thereto to permit the rear-portion of the said tubular magazine to be entered into and withdrawn from the magazine-receiving socket in the receiver of the said butt-unit, and means holding the said barrel and forestock and tubular magazine assembled together; one of the said units being provided exteriorly separate from the said barrel with a coupling-recess opening laterally with respect to the longitudinal axis of the firearm-structure and the other of said units being provided exteriorly separate from the said barrel with a coupling-projection also extending laterally with respect to the longitudinal axis of the firearm-structure and entering the coupling-recess in the other unit to couple the two said units together against axial separation; the two said units being turnable with respect to each other about the longitudinal axis of the barrel of the said barrel-unit as a center to enter the coupling-projection of one of the said units into the coupling-recess of the complemental unit and to withdraw the said coupling-projection from the said coupling-recess.

2,279,932
METHOD OF INSTALLING COOLING DEVICES IN WELDING ELECTRODES
Edmund J. von Henke, Chicago, Ill., assignor to American Electric Fusion Corporation, Chicago, Ill., a corporation of Illinois
Application December 16, 1939, Serial No. 309,566
3 Claims. (Cl. 29—148.2)

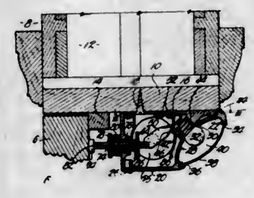
1. The method of installing a substantial

length of tube in a metal body which comprises forming a groove of corresponding length in said body, enlarging said groove to form a chamber



with a relatively narrow mouth, inserting the tube laterally thereof through said mouth into said chamber, and then deforming said tube to make it contact with the walls of the chamber.

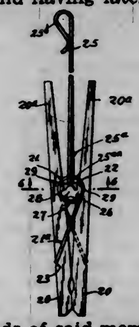
2,279,933
LIGHTING FIXTURE
Alden C. Wells, Kansas City, Mo.
Application November 22, 1940, Serial No. 366,605
4 Claims. (Cl. 240—6.4)



1. In a unitary lighting fixture having a lamp and adapted for attachment to the horizontal under surface of a door header, a case having means for attachment to the header comprising an L-shaped section having an offset lip along the free edge of one side thereof; a flexible lens; and another section having a reflecting portion for the light rays from the lamp provided with a groove along one of its edges in engagement with said lip, said last mentioned section including a planar extension projecting from the reflecting portion in substantially parallel relation and spaced from the said one side of the L-shaped section, said extension being shorter than the one side of the L-shaped section whereby to dispose the reflecting portion at an angle to direct light rays downwardly and outwardly from the case, said reflecting portion being provided with an inwardly facing groove along each of two opopsite edges thereof respectively for receiving two opposite marginal edges of the lens.

2,279,934
CLOTHESLINE PIN
Clarence E. Wisecup, Bronx, N. Y.
Application April 8, 1941, Serial No. 387,411
7 Claims. (Cl. 24—84)

1. A clothes line pin, comprising a pair of co-operative gripping jaws pivotally engaged on the sides of a coil spring having end portions engaging the jaws and urging them together, a member fixedly mounted in said coil spring, and a hook for supporting said jaws and having a pair of wire connection elements engaging through an arcuate shaped opening in said member from opposite ends and having laterally bent ends for

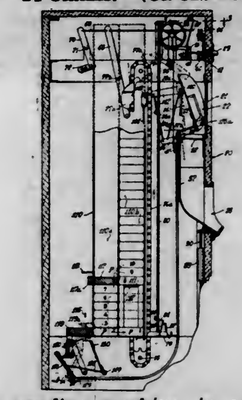


gripping the ends of said member to prevent the removal of said ends from said member.

2,279,935
VITREOUS ENAMEL COATED STEEL ARTICLE AND METHOD OF MAKING THE SAME
Harvey Ross Belding, Sharpsville, Pa., and John A. Eckel, Gary, Ind.
No Drawing. Application October 7, 1939, Serial No. 298,506
4 Claims. (Cl. 29—148)

1. A method of producing vitreous enamel coated steel articles, which includes producing oxidized molten steel containing less than .07% carbon and less than .30% manganese, adding titanium thereto in amounts insufficient to kill said steel, solidifying said unkilled steel, producing cold rolled steel from said steel when it solidifies, producing the desired articles from said cold rolled steel and fusing vitreous enamel coatings on said articles.

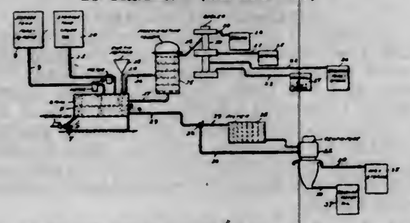
2,279,936
VENDING MACHINE
Damon D. Brodie, Long Beach, Calif., and Paul C. Blair, Los Angeles, Calif.
Application December 28, 1939, Serial No. 311,240
14 Claims. (Cl. 312—63)



2. In a vending machine, in combination, a plurality of merchandise display traps and means releasably latching each of the same in merchandise supporting position, means for selectively, releasing any trap to effect discharge therefrom of the merchandise supported thereby, and means for restoring merchandise to a released trap, said means comprising a storage

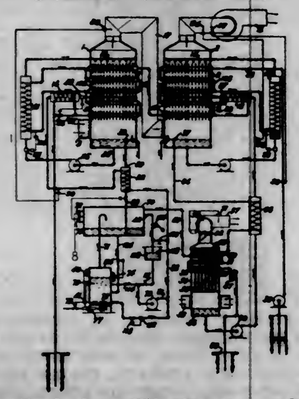
compartment arranged behind each trap, each compartment having a lower discharge end at a level below said traps, an elevator common to all traps and storage compartments and arranged for movement from a normally lowered position opposite the discharge ends of the several compartments to a raised position above the several traps, ejecting means for effecting transfer of articles from the several storage compartments onto said elevator in normal position, means for moving said elevator into raised position above said traps, means for automatically tripping said elevator in raised position to effect discharge of merchandise carried thereby into emptied traps, driving mechanism for actuating said elevator moving means and said ejecting means in timed relationship to effect ejection of an article from a storage compartment onto the elevator in normally lowered position and return said elevator from raised to lowered position, and control means for said driving means actuated cooperably with said selectively operable trap releasing means.

2,279,937
PROCESS OF DEWAXING CRUDE AND REFINED PETROLEUM OILS
Thomas J. Brown, Cohoes, N. Y.
Application May 8, 1940, Serial No. 334,683
13 Claims. (Cl. 196—17)



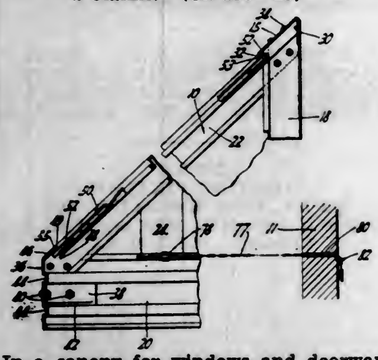
11. The method of distilling crude petroleum oil which comprises mixing para-cymene with the crude oil, heating the mixture to a temperature to cause flocculent precipitation of the wax from the oil and the light ends to pass off.

2,279,938
CONDITIONING OF GASES
Robert B. P. Crawford, Miami, Fla.
Application September 15, 1938, Serial No. 230,151
5 Claims. (Cl. 183—120)



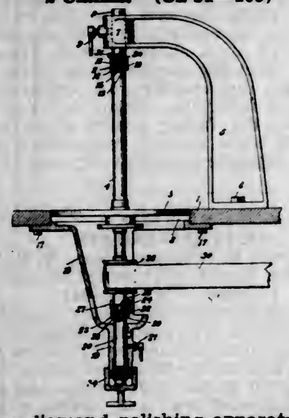
1. A method of conditioning gases which comprises passing a stream of gas in extended surface contact with a plurality of successive streams of hygroscopic solutions of progressively lower absolute vapor pressure and temperature, while passing a stream of cooling fluid countercurrent to said gas stream in indirect heat exchange relation with each of said streams of hygroscopic solutions to maintain the heat transfer potential between the gas stream and the hygroscopic solutions at a substantially constant value with decreasing moisture content of the air.

2,279,939
LIGHT CONTROL DEVICE
Thomas A. Di Martile, Fort Erie, Ontario, Canada
Application January 10, 1940, Serial No. 313,275
2 Claims. (Cl. 156—15)



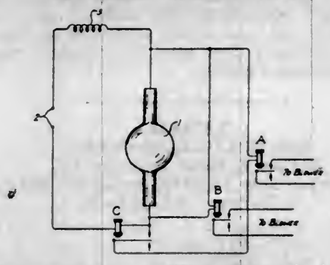
2. In a canopy for windows and doorways, a framing portion disposed in vertically inclined position and including upper and lower rail members, a plurality of adjustable coacting shutter members pivotally mounted by means of extending pin portions at their upper and lower ends upon said rail members for rotation about their vertically inclined axes, said upper rail being provided with spaced openings in the lower face portion thereof for sliding reception of the upper of said pins therein, and said lower rail being provided with slot means for receiving in pivoted relation therein the lower of said pins.

2,279,940
DIAMOND-POLISHING WHEEL
Julius Dinhofer, New York, N. Y.
Application December 4, 1940, Serial No. 368,429
2 Claims. (Cl. 51—109)



1. In a diamond-polishing apparatus, a vertically disposed spindle and means for rotating the same, a polishing wheel on said spindle, a bracket having a portion extending below the lower end of the spindle, said bracket being provided with an internally threaded bore, a threaded shaft vertically adjustable in said bore, means for maintaining the position of adjustment of said threaded shaft, said means comprising a set screw operative against said shaft the upper end of said shaft being provided with a cup, a ball-bearing fitted within and wholly retained by said cup, said ball-bearing consisting of spaced concentric annuli with a ball race disposed between them, the spindle having a shoulder adjacent to its lower end and a reduced portion extending from the shoulder, said reduced portion fitting within the inner annulus of the ball bearing and the shoulder resting on top of said annulus, and a ball bearing surrounding the upper end of the spindle.

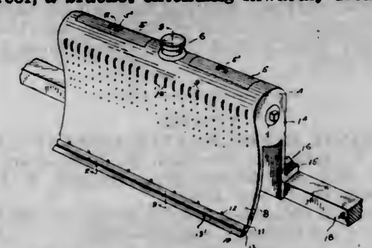
2,279,941
COOLING SYSTEM FOR VAPOR LAMPS
Carlton R. Dunham, London, and Victor J. Francis, North Wembley, England, assignors to General Electric Company, a corporation of New York
Application January 27, 1941, Serial No. 376,229
In Great Britain January 12, 1940
6 Claims. (Cl. 176—124)



1. In combination with a vapor electrical discharge device and a source of power therefor, cooling means for said device, first relay means responsive to the voltage of said device for energizing said cooling means when approximate normal operating conditions obtain, means for deenergizing said relay means when the voltage across said device becomes substantially higher than normal operating voltage, and second relay means responsive to voltages greater than said normal operating voltage but less than the voltage of said source for energizing said cooling means when the voltage across said device becomes substantially higher than said normal operating voltage.

2,279,942
GUARD FOR HIGHWAYS
Herman Hausherr, Bayville, N. J.
Application June 25, 1941, Serial No. 399,727
1 Claim. (Cl. 256—13.1)

A guard for highways comprising a container cylinder, a removable member having a threaded stem engaging with a threaded section in the uppermost portion of said container, handles attached to and adapted to control the movement of lids, said lids located on the container at predetermined distances from the threaded member and spaced from each of the ends of the container, a plurality of ports located in the lowermost portion of and for the width of the container, wicks protruding from said ports and depositing an oleaginous fluid upon a smooth faced concaved front plate extending downwardly from the aforesaid container, a plurality of ports located in said plate for the width thereof at a predetermined distance from the lower extremity thereof, a bracket extending inwardly from said



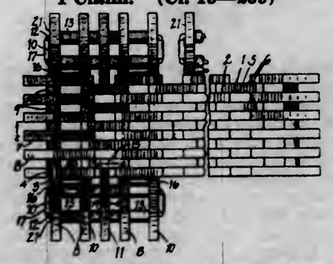
front plate and adapted to maintain securing means, and a ramp at the lowermost terminus of the front plate which is spaced from a rear upright having at a spaced distance from the lowermost end a rail adapted to receive securing means.

2,279,943
CORRUGATED CLIP FOR SELF-ALIGNING SHINGLES
Robert Hayes, Woodhaven, and Joseph Slater, Ozone Park, N. Y., assignors of two-thirds to Thomas K. Raymond, Forest Hills, N. Y., and one-third to said Hayes
Application February 28, 1941, Serial No. 380,992
4 Claims. (Cl. 108—33)



1. A clip for rigid side-wall shingles, comprising a base strip portion having an elongated slot for a headed fastening element to frictionally hold the clip, a hook portion on the bottom end of said base strip portion for engaging over an edge of a shingle, and a washer engaged in said slot and having straight sides with gripping elements engaging complementary gripping elements on the sides of said slot.

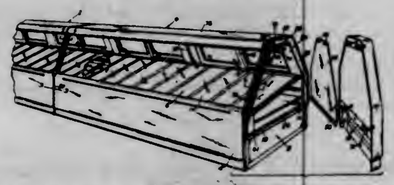
2,279,944
MAT
Adolph B. Hendry, Portland, Mich.
Application May 22, 1939, Serial No. 274,908
1 Claim. (Cl. 15—239)



A floor mat comprising a plurality of longitudinally disposed links of vulcanized rubber tire casing stock having fibrous strands embedded therein, means for pivotally articulating said links in laterally spaced and staggered and lon-

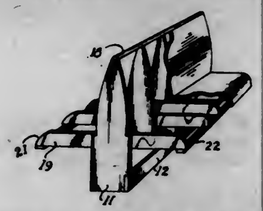
gitudinally overlapping arrangement to provide a mat body portion, and border elements connected to said body portion, said border elements terminating at their outer ends in inclined downwardly directed surfaces and having rollers interposed therebetween and projecting above said surfaces whereby to eliminate scuffing or tripping on the edges of the mat, said border elements, rollers, and links being formed of similar stock.

2,279,945
SECTIONAL REFRIGERATED DISPLAY CASE
Cyrus F. Hoffman, Trenton, N. J., assignor to C. V. Hill & Company, Inc., Trenton, N. J., a corporation of New Jersey
Application December 8, 1939, Serial No. 308,161
8 Claims. (Cl. 312—107)



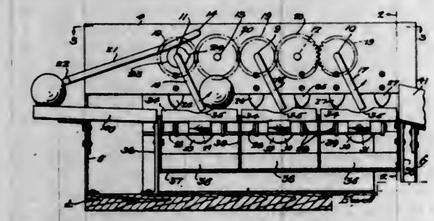
6. A refrigerated display case comprising a plurality of similar open ended sections each having an outer metallic shell and an inner metallic liner with insulating material located between the same, end frames on said sections each formed of non-metallic material and serving to space said outer shell from said inner liner, means on said end frames for connecting said sections together in end to end relation with the outer metallic shell of each section spaced from the inner metallic liner of the adjacent section and insulating end members closing the opposite ends of the terminal sections of said case.

2,279,946
BENCH
Elmer Linus Johnson, Lakewood, N. Y.
Application June 20, 1940, Serial No. 341,522
3 Claims. (Cl. 155—130)



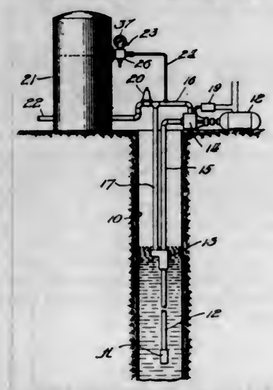
1. A bench of the class described comprising a plurality of spaced uprights, top and bottom rails having fitted engagement with and serving to secure said uprights in parallel spaced relationship, corresponding edges of said uprights being outwardly curved from the top rail to approximately seat level, members joined to said uprights at the lower ends of said curved edges and projecting horizontally beyond said uprights, said members terminating in somewhat rounded ends, sheet material engaged with the curved edges of said uprights and the top and front edges of said members to form a back rest and seat, and a tie slat joined to the under front edges of said members to secure said members in spaced relationship.

2,279,947
GRADING MACHINE
Everett M. Keen, Vineland, N. J.
Application January 26, 1940, Serial No. 315,794
1 Claim. (Cl. 209—121)



In a machine for grading eggs by weight, a plurality of scales each comprising an article-supporting member, each said member having a central article-receiving socket and means at opposite sides respectively of said socket for guiding said articles to and from the latter, said members being arranged contiguously in series and end to end so that the guide means of adjoining members form in effect an uninterrupted way for said articles between the said receiving sockets, and means for dislodging the said articles from the said sockets and onto said guides for transfer to the socket of the next adjoining member, said last-named means comprising a rotary shaft associated with each of said scales, and an arm on said shaft arranged to describe an arc extending over and in proximity to the said supporting member.

2,279,948
AIR VOLUME CONTROL
Walter E. Kent, Decatur, Ill.
Application July 16, 1941, Serial No. 402,639
6 Claims. (Cl. 103—6)

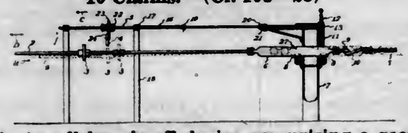


1. An air volume control for a water system having a storage tank and a pump of supplying water from a well to the tank comprising aspirating means communicating with the tank and pump and through which a portion of the water is delivered to the tank, a valve controlled air inlet communicating with the low pressure zone of the aspirating means, the inlet being open during aspiration and closed at all other times, and a passage connecting the tank and the low pressure zone of the aspirating means for interrupting the aspirating action when the water level in the tank drops below the tank end of the passage.

2,279,949
METHOD OF MAKING LABELS
Arthur C. McCrum, Kansas City, Mo.
Application February 19, 1940, Serial No. 319,606
3 Claims. (Cl. 95—5)

3. A method of printing labels in different predetermined sizes having a title design and an individual legend in contrasting color thereon, comprising the steps of selecting a title design from a plurality of stock designs, producing an individual legend in part the same color and in part in contrasting color to the title design, combining the title design and legend parts to form a title design paste-up, selecting label forms of different predetermined sizes, photographically reproducing the title design paste-up in sizes to conform with the different selected sized label forms, mounting the different sized reproductions of the title design on label forms proportioned to the sizes of the title design reproductions to form label paste-ups, photographically reproducing the label paste-ups, forming a printing plate of said last prepared photographic reproductions, and printing the labels from said plate.

2,279,950
AUTOMATIC KNOCKOFF DEVICE FOR OIL WELL PUMPING APPARATUS
Clarence A. McKay, Tulsa, Okla.
Application July 28, 1939, Serial No. 287,142
10 Claims. (Cl. 103—23)



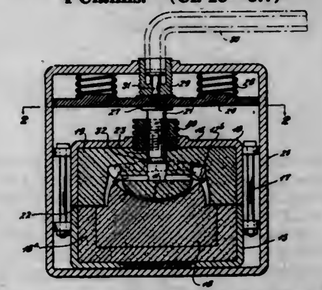
1. A well knock-off device comprising a reciprocating lock bar, a power line detachably connected to one end of the lock bar, a flexible shackle rod connected to the other end of the lock bar and leading to a pumping apparatus, said shackle rod normally sagging during a pumping operation and straightening out on the down strokes of the pumping operation when the liquid level in the well approaches a predetermined point, latching mechanism for the lock bar and means carried by the shackle rod and positioned to engage and trip the latching mechanism when the shackle bar straightens out on the down strokes of the pumping apparatus when the liquid level within the well approaches said predetermined point.

2,279,951
ATHLETIC SHOE
David Morein, New York, N. Y.
Application May 20, 1941, Serial No. 394,358
5 Claims. (Cl. 36—71)



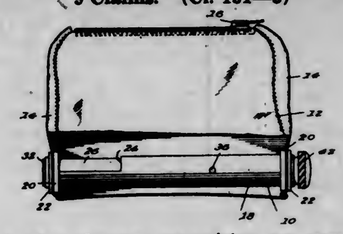
1. An athletic shoe having an upper, an insole, an outer sole, the upper having an opening extending lengthwise of the instep, a tongue for the opening, laces for closing the opening, and an uninterrupted strip of elastic material secured at its ends between the insole and outer sole, the strip being otherwise free of the upper, and extending over the instep of the foot interiorly of the shoe.

2,279,952
DENTURE MOLD
Walter J. Pryor, Cleveland, Ohio
Application April 18, 1940, Serial No. 330,351
4 Claims. (Cl. 18—5.7)



1. In molding apparatus of the character described, a mold flask containing a mold having therein a cavity adapted to receive material to be molded and cured and a passage communicating with said cavity and also adapted to receive some of said material, said flask having a threaded portion and a plunger extending therethrough into said passage, a spring acting on the plunger to cause the same to exert pressure on the material in said passage so as to maintain said cavity filled during the curing of the material, and a hollow member housing said spring and having adjustable screw connection with said threaded portion for varying the compression of said spring.

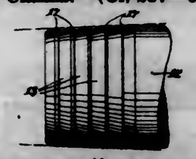
2,279,953
TOBACCO PIPE CHARGER
Robert C. Richey, Springfield, Ohio
Application December 11, 1939, Serial No. 308,710
9 Claims. (Cl. 131—3)



1. A pipe charger comprising an open ended tube adapted to be fixed in a tobacco container with its ends extending therefrom, a passage through the wall of said tube near one end thereof through which tobacco may enter said tube, a slidably mounted plunger within said tube having a cross-section substantially as great as the internal cross-section of said tube and being of sufficient length to close one open-end thereof while closing said passage therein, an operating means extending from the other end of said tube and being operatively connected to said plunger whereby the same may be reciprocated, means for latching said plunger in passage-closing position, and a spring within said tube for urging the plunger to passage opening position upon the release of said latch means, said latching means, spring, and the portion of said operating means within said tube being enclosed

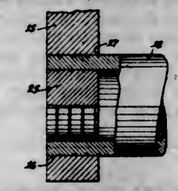
by said tube which together with said plunger effectively encase said parts against contact with tobacco being charged.

2,279,954
SHAFTING CONNECTION
Harry E. Sipe, New York, N. Y.
Application April 28, 1941, Serial No. 390,650
8 Claims. (Cl. 287—53)



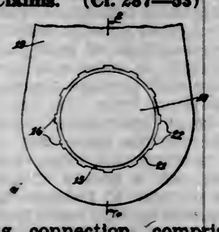
1. A shafting connection, comprising companion members, one having a socket and the other a projection to enter the socket with a drive fit, one of said members having keyway forming grooves extending longitudinally in respect to the axis of the shafting and the other member having a succession of transverse tapers deformable as keys into said grooves.

2,279,955
SHAFTING CONNECTION
Harry E. Sipe, New York, N. Y.
Application June 18, 1941, Serial No. 398,527
7 Claims. (Cl. 287—52.05)



1. A torsional drive connection for hollow shafting, in which the shafting of tubular formation, is provided with a series of longitudinally spaced V-shaped grooves forming a longitudinal succession of annular inclined tapers and in which the member to be connected with said shafting is provided with a socket which will receive said inclined tapers with a drive fit, said annular tapers being separated into longitudinal rows of inclined key segments by grooves intersecting said tapers, extending longitudinally of the shafting and of a depth less than the depth of said grooves defining and separating said succession of tapers.

2,279,956
SHAFTING CONNECTION
Harry E. Sipe, New York, N. Y.
Application June 20, 1941, Serial No. 398,909
8 Claims. (Cl. 287—53)



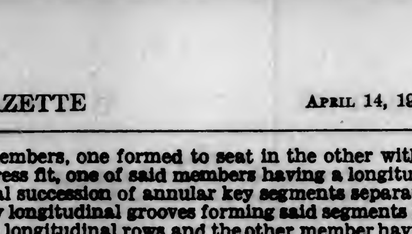
6. A shafting connection, comprising companion longitudinally telescopically engageable members, one formed to seat in the other with a press fit, one of said members having a longitudinal succession of annular key segments separated by longitudinal grooves forming said segments into longitudinal rows and the other member having engaging longitudinal keyway forming faces dimensioned to receive and to compress said rows of separated annular segments into longitudinally extending keys interlocked in drive fit engagement in said keyway forming faces.

2,279,957
COUNTER-SHAM PARTITION CLIP
Oscar Sliger, University City, Mo.
Application March 30, 1940, Serial No. 326,887
2 Claims. (Cl. 24—73)



1. A clip for supporting inclined counter-sham partitions comprising a Y-shaped body, each of whose diverging branches has upturned flanges thereon extending at substantially a right angle to said body to form jaws for supporting said inclined partitions.

2,279,958
CONTAINER SUPPORT
James H. Snyder, Rochester, and Robert S. Woodburn, Jr., Brighton, N. Y., assignors to The Pfaudler Co., Rochester, N. Y., a corporation of New York
Application November 16, 1940, Serial No. 365,990
2 Claims. (Cl. 248—146)

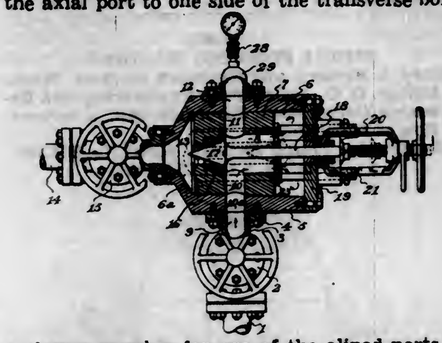


1. A supporting bracket for a horizontal, cylindrical container, comprising a one-piece metal casting of generally arcuate extent arranged to embrace a portion of the cylindrical wall of said container and having, for a substantial portion of its extent, a generally triangular, hollow shape in cross section with adjacent sides meeting substantially in an arcuate apex edge arranged for welding to said container wall and with an opposite base side provided with means for connection with a ground engaging leg.

2,279,959
OIL WELL CHOKE VALVE
Aubrey L. Stewart, Tulsa, Okla., and Charles M. Laudermilk, Shreveport, La.
Application October 25, 1941, Serial No. 416,558
6 Claims. (Cl. 277—53)

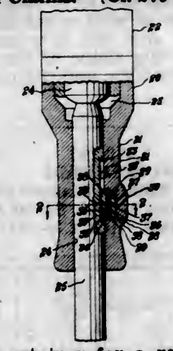
1. A choke valve comprising a housing having a chamber therein, means for attaching said housing to a pressure supplying line, a plug in the chamber of said housing and having a plurality of longitudinally extending ports circumferentially arranged and extending entirely through the plug, said plug having a transverse bore registering with alined ports in the housing

and communicating with an axial port extending through the plug, a cover plate for said housing, a master needle valve cooperating with a seat in the axial port to one side of the transverse bore,



a closure member for one of the alined ports in the housing and a plurality of different size valves carried by the cover plate and cooperating with the concentrically arranged ports.

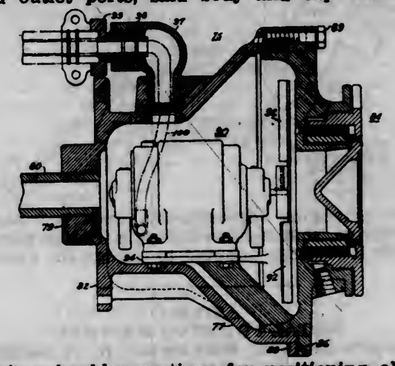
2,279,960
STEEL RETAINER
Edward F. Terry, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application October 14, 1939, Serial No. 299,402
4 Claims. (Cl. 279—19.5)



1. A steel retainer for a rock drill having a front head to receive a working implement having a shoulder, an aperture of oblong cross-sectional form in the front head, a retainer in the aperture comprising a plurality of rigid members either of which may serve as an abutment for the shoulder, and a resilient member between the rigid member for maintaining the rigid members in frictional engagement with the wall of the aperture.

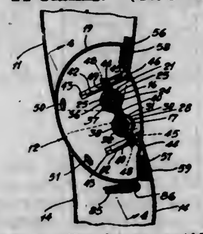
2,279,961
VENTILATING DEVICE AND SYSTEM
Charles C. Whittaker, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 12, 1938, Serial No. 240,207
10 Claims. (Cl. 98—1)

1. A ventilating device comprising, a recessed body member having inlet and outlet ports therein, a cap member secured to the body member to enclose the recess, and a plurality of removable baffle members positioned in the recess in predetermined spaced relation to define a relatively narrow back and forth passage between the inlet and outlet ports, said body and cap members



having shoulder portions for positioning alternate baffle members in fixed relation therewith to maintain them in the predetermined spaced relation.

2,279,962
ARTIFICIAL LIMB
Carl Woodall, Los Angeles, Calif.
Application October 4, 1939, Serial No. 297,896
14 Claims. (Cl. 3—2)

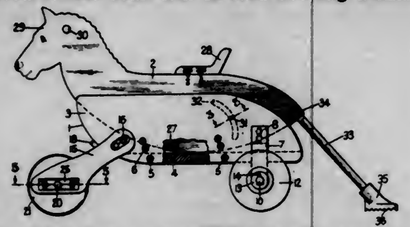


1. In an above-the-knee artificial limb, the combination of: a thigh; a shank; a knee cooperatively positioned between said thigh and shank; a thigh joint pivotally connecting said thigh and knee; a shank joint pivotally connecting said shank and said knee, said joints being positioned to the rear of the center line of said limb and said shank joint being rearwardly disaligned from said thigh joint; stop means for limiting the forward angular movement of said shank with respect to said thigh; and friction-applying means whereby friction to turning may be applied to said joints and operable to independently increase or decrease the friction applied to either of said joints.

2,279,963
PROGRESSIVE HOBBYHORSE
Richard W. Angert, Cincinnati, Ohio
Application July 26, 1941, Serial No. 404,324
2 Claims. (Cl. 272—53)

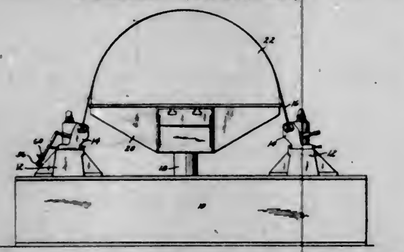
1. A hobby horse of the type described comprising a wheeled body portion, said wheeled body portion comprising a pair of vertically disposed plates joined together adjacent their lower ends by means of a bar disposed therebetween, a rocking member comprising a vertically disposed plate disposed between said pair of plates, said rocking member being connected to the pair of spaced plates by means of an interfitting pin and arcuate slot construction, said rocking member having a curved lower edge contacting with

said bar, and a propelling member pivotally connected to the rear end of said rocking member



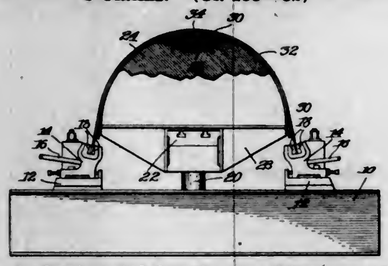
and extending downwardly and rearwardly therefrom, said member having a friction portion on its lower edge adapted to engage the ground.

2,279,964
METAL FORMING MACHINE
Henry A. Berliner, Washington, D. C., assignor, by mesne assignments, to Engineering and Research Corporation, Riverdale, Md., a corporation of Maryland
Application October 7, 1938, Serial No. 233,726
2 Claims. (Cl. 153—48)



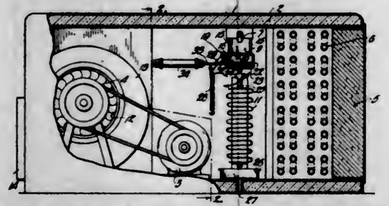
1. In a sheet metal forming machine of the type in which the opposite edges of a sheet are clamped to spaced straight beams and the sheet is subjected to a stretching operation between the beams, means for clamping each edge of a sheet to a beam comprising a plurality of identical clamp devices adjustably mounted side by side along the length of each beam, each of said clamp devices comprising a body having an upper surface, a recess extending through the body which is of substantially uniform transverse cross-section with the longitudinal axis of the recess substantially parallel to the beam and which has side walls which converge toward the upper surface of the body to define an elongated opening in the upper surface for the recess, a pair of clamping jaws within said recess which are of approximately the same length as the recess and are of substantially uniform cross-section throughout their lengths, each of said jaws having an outer inclined face adjacent and parallel to one of the converging walls of the recess and said jaws having inner adjacent faces substantially parallel to each other between which the edge of a sheet of metal is adapted to be placed, and fluid pressure means disposed within the body of each clamp for moving the clamping jaws toward the opening for the recess whereby the converging walls of the recess force the jaws toward each other to clamp the edge of the sheet of metal therebetween, the inclined faces of the jaw members and the converging walls of the recess being so disposed with respect to each other that during movement of the jaw members toward the opening for the recess the inner faces of the jaw members remain substantially parallel, and hydraulic control means whereby the jaw-moving means of all of the clamping devices may be operated simultaneously and to the same extent.

2,279,965
METAL FORMING MACHINE
Henry A. Berliner and Christian De Boer, Washington, D. C., assignors to Engineering and Research Corporation, Riverdale, Md., a corporation of Maryland
Application March 30, 1939, Serial No. 264,908
3 Claims. (Cl. 153—32)



1. A sheet metal forming machine comprising a movable head adapted to have a form attached thereto, a flexible, non-resilient forming sheet having its edges fixedly secured on opposite sides of the head and having its central portion disposed in the path of the head and arranged in the approximate shape of the form, and means for moving the head and form toward the forming sheet whereby a work sheet positioned between the form and the forming sheet and which is to have the shape of the form is deformed between the form and the central part of the forming sheet.

2,279,966
HUMIDIFIER
Reginald W. Bulkley, Kansas City, Mo.
Application March 1, 1941, Serial No. 381,407
3 Claims. (Cl. 236—44)

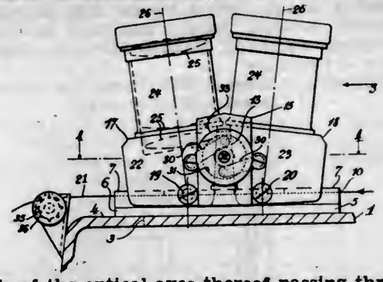


1. In a humidifier, means for spreading water over an extended surface, a spray means having small perforations to break up the water into small drops arranged above the spreading means, means to continuously pass water through said perforations to prevent evaporation and mineral deposits thereon, a humidostatically controlled bypass normally disposed between the spray and spreading means to prevent evaporation from the spreading means when the humidity is satisfied.

2,279,967
STEREOSCOPIC FILM VIEWING APPARATUS
Alfred Boch, Yorktown Heights, N. Y.
Application April 17, 1941, Serial No. 388,925
3 Claims. (Cl. 88—29)

1. In an apparatus for stereoscopically viewing stereoscopic film negatives having adjoining

edges, a base, means on said base for placing thereupon said film negatives in position to be viewed, an optical system for stereoscopically viewing said film negatives comprising a pair of optical image forming elements, fixed means on said base for supporting said elements in viewing relation to said film negatives with the lower



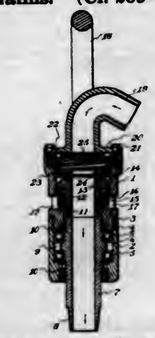
ends of the optical axes thereof passing through the centers of the adjoining film negatives, the upper ends of said optical axes being angularly adjustable with respect to said centers and means for adjusting the upper ends of said optical axes whereby to adjust said optical axes to suit the spacing of the eyes of an observer.

2,279,968
SERVER
Ellen A. Calahan, Georgetown, Tex.
Application January 31, 1941, Serial No. 376,929
1 Claim. (Cl. 30—165)



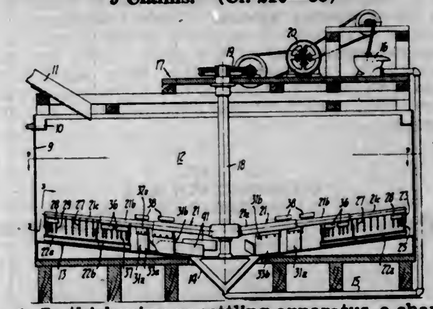
A cake server comprising a wedge-shaped blade adapted to support a slice of cake, with a handle projecting from one side of the base of the blade at an obtuse angle, the other side of the base and adjacent handle being notched to define a tongue having one of its sides a continuation of the side of the blade.

2,279,969
SWIVEL JOINT FOR ROTARY DRILLING
Carl E. Casperson, Tulsa, Okla.
Application August 29, 1941, Serial No. 408,888
5 Claims. (Cl. 285—97.5)



1. A swivel joint through which fluid passes, said joint comprising a stationary body portion, a rotatable member extending upwardly into said body portion, a seat carried by the upper end of said rotatable member, a packing member mounted in the body member and cooperating with the valve seat, a mud line connecting member carried by the upper end of the body member, an expansion spring interposed between the mud line connecting member and the packing member cooperating with the seat, a downwardly extending apron carried by the upper end of the upwardly extending member and rotatable therewith, and an upwardly extending flange carried by the body portion and extending upwardly within the apron, thereby deflecting leakage outwardly through openings in the body member and to the outside of the body member.

2,279,970
THICKENING APPARATUS
Harrison S. Coe, Palo Alto, Calif.
Application January 24, 1940, Serial No. 315,321
9 Claims. (Cl. 210—55)

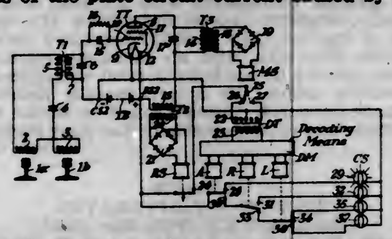


1. In thickening or settling apparatus, a chamber in which liquid feed material is subjected to settlement, the chamber having a bottom wall and an outlet in its bottom wall for removal of material settled from the liquid feed and also having an overflow liquid outlet, rotary impelling means operating in a circular path in a region near the upper side of the bottom wall and serving to urge settled material toward the outlet, said impelling means including a scraping element moving in said circular path, and a baffle element extending upward from the bottom wall into the path of movement of the scraping element, said baffle element serving to impede rotary movement of settled material in the path of movement of the scraping element, one of said elements being yieldable from a normal position whereby the scraping element can pass the baffle element.

2,279,971
RAILWAY TRAFFIC CONTROLLING APPARATUS
Ralph K. Crooks, Sharpsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application November 16, 1940, Serial No. 365,886
10 Claims. (Cl. 246—63)

1. In railway traffic controlling apparatus for use with a receiving circuit mounted on a train in inductive relation to the track rails for receiving an electromotive force when alternating current coded at a given rate is supplied to the rails, the combination comprising: an electron tube having a plate, a cathode and a control grid mounted on the train; a grid circuit connected across said grid and cathode of the tube and coupled to said receiving circuit to apply to the

grid the electromotive force received by said receiving circuit, a control winding, a condenser, a transformer; a plate circuit including a current source, the primary winding of said transformer and said control winding and said condenser in multiple and connected across said plate and cathode of the tube; contact means controlled by said control winding in response to the variations of the plate circuit current caused by the



on and off code periods of such electromotive force applied to said grid, a relay connected to the secondary winding of said transformer to control that relay in response to the alternating current component of the plate circuit current caused by said electromotive force applied to said grid, and a train carried signaling circuit controlled jointly by said relay and said contact means.

2,279,972
GARMENT POCKET
William E. Cunningham, Norman, Okla.
Application November 12, 1938, Serial No. 240,125
5 Claims. (Cl. 2—247)

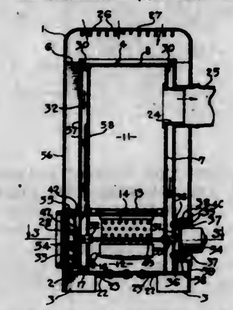


1. In a garment, a pocket structure comprising sides secured directly together edge-to-edge throughout the major portion of the pocket and having a pocket opening therebetween, and means connecting the sides together at the pocket opening forming accordion pleats only at opposite edges of said pocket opening to facilitate spreading of the pocket opening only for gaining access to the pocket.

2,279,973
STABILIZATION OF ORGANIC SUBSTANCES
Melvin A. Dietrich, Claymont, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 3, 1940, Serial No. 334,065
22 Claims. (Cl. 252—51)

1. An organic substance of the group consisting of vegetable fats and oils, animal fats and oils, vitamins, soaps, rubber, linear super-polyamides, petroleum hydrocarbons, polymerized olefins, ethers, refrigeration gases, dry-cleaning solvents, castor oil and its derivatives, methyl methacrylate resins and antioxidants, subject to oxidative deterioration accelerated by a catalytically active metal, having incorporated therein a small proportion, sufficient to inhibit the catalytic effect of the metal, of a hydroxamic acid.

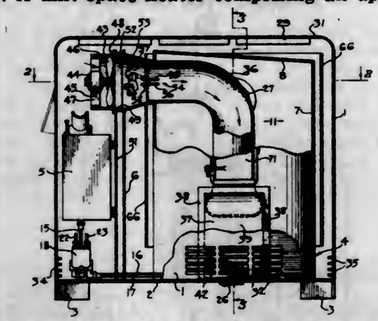
2,279,974
SPACE HEATER
Robert B. Evans, Grosse Pointe, and Eugene F. Farrell, Detroit, Mich., assignors to Evans Products Company, Detroit, Mich., a corporation of Delaware
Application August 5, 1939, Serial No. 288,542
11 Claims. (Cl. 126—110)



1. A unit space heater comprising an upright cabinet adapted to be supported on the floor of the room to be heated and having an upper opening, an upright combustion drum spaced within said cabinet and an upright enclosing wall spaced about said drum to provide inner and outer, upwardly extending, air heating passageways between said drum and said wall and between said wall and said cabinet respectively, each passageway having an upper opening communicating with said upper cabinet opening, a lower opening for said outer passageway, an opening through the lower end of said enclosing wall and a corresponding opening through said upright cabinet adjacent its bottom, an upright propeller-type fan associated with said last two openings to pull air down through said inner passageway and discharge it directly out into the room.

2,279,975
SPACE HEATER
Robert B. Evans, Grosse Pointe, Mich., assignor to Evans Products Company, Detroit, Mich., a corporation of Delaware
Application August 18, 1939, Serial No. 290,878
16 Claims. (Cl. 126—110)

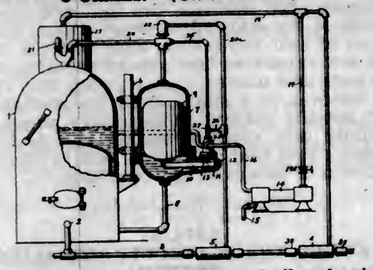
1. A unit space heater comprising an upright,



floor supported cabinet casing having a lateral opening in its lower portion, an upright, direct fired, heating drum therein, a relatively short,

high temperature air heating duct having a substantially straight intermediate portion extending downwardly through said drum and having bent upper and lower ends opening through the sides of said drum, and blower means to circulate high temperature air down through said duct and out said lateral opening in the lower portion of said upright casing, which opening is positioned close to but safely above the floor to prevent local overheating thereof by said high temperature air.

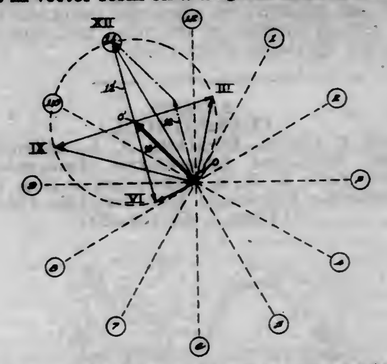
2,279,976
AUTOMATIC SAFETY DEVICE FOR BOILERS
William C. Faust, Corpus Christi, Tex.
Application May 16, 1938, Serial No. 208,163
3 Claims. (Cl. 122—448)



1. The combination with a boiler having a fuel burner and a supply line for fuel leading to the burner, of a cut-off valve mechanism in the fuel line, a steam conduit leading from the steam chamber of the boiler and connected to said valve mechanism, a safety valve controlling the flow of steam through the conduit and arranged to be opened by the steam pressure to admit steam to the valve mechanism whereby said valve mechanism will be operated to close said fuel supply line, a by-pass steam conduit for by-passing the steam around the safety valve, a control valve assembly for controlling the by-pass conduit, said control valve assembly comprising a casing, a bonnet positioned on the casing and forming a cylinder having an inlet and an outlet connecting the cylinder with the by-pass conduit, a piston valve fitted closely in the cylinder and controlling the flow of steam from the inlet to the outlet to control the supply of steam, through the by-pass conduit, to the cut-off valve mechanism, the casing of the control valve assembly having an inlet and outlet for the flow of water therethrough to the boiler, a valve stem reciprocable in the bonnet and casing, a water control valve on the stem controlling the casing outlet, seals around the stem on opposite sides of the water control valve, said piston valve being connected to the stem whereby the flow of steam through said cylinder from the inlet thereof to the outlet thereof is prevented until the water control valve has been opened and means including a float operable in accordance with variations in the level of the liquid in the boiler to open the water control valve and the piston valve in succession upon downward movement of the float.

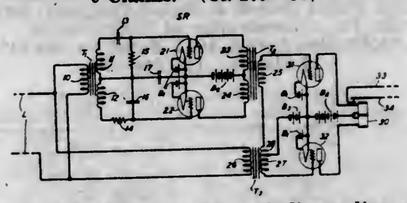
2,279,977
FLUID COUPLING BALANCING
Seth T. Foresman, Royal Oak, and William A. Hunter, Highland Park, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application March 1, 1939, Serial No. 259,296
7 Claims. (Cl. 73—53)

1. The method of determining and separating the unbalances in the members of a fluid coupling which comprises mounting said coupling on a balancing apparatus of any suitable type which will measure the magnitude and angular position of the total resultant running unbalance in the coupling and taking a series of readings with the runner of said coupling locked in a series of selected rotative positions with respect to the impeller thereof, plotting said readings in vector form on a diagram in such manner



that each of said readings will be represented by a vector of corresponding length and angularity, and inscribing the circle defined by the tips of said vectors, then drawing a vector from the reference axis of said diagram to the center of said inscribed circle which will represent the resultant unbalance in the impeller, next drawing a vector from the center of said inscribed circle to the tip of the vector representing the first reading taken which will represent the resultant unbalance in the runner.

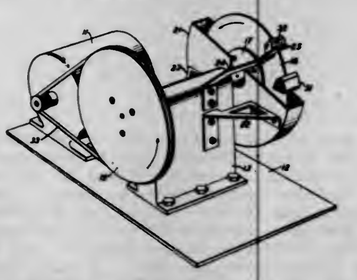
2,279,978
SIGNALING SYSTEM
Danforth K. Gannett, Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 25, 1940, Serial No. 362,782
9 Claims. (Cl. 179—84)



1. In a signaling system including a line subjected to voice currents and to signals consisting of voice frequency currents of sine wave form, a signal receiver for responding to incoming signals, said receiver comprising a differential signal relay, a signal channel for effecting the operative energization of a first winding of the relay responsive to signaling currents, and a guard channel consisting of two amplifiers in multiple and a detector controlling the energization of a second winding of said relay, the output circuits of said amplifiers being differentially connected to the input circuit of said detector, the input circuit of one of said amplifiers being arranged so that the current in its output circuit is proportional to the derivative of the current in the line and the input circuit of the other

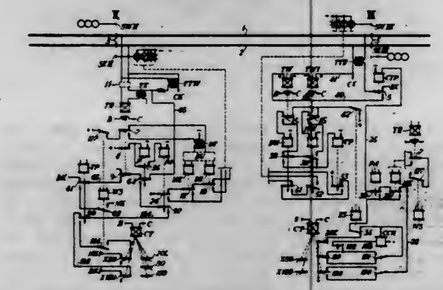
amplifier being arranged so that the current in its output circuit is proportional to the integral of the current in the line, the currents in the output circuits of said amplifiers being equal in response to signaling currents whereby the second winding of said relay is ineffective to prevent the operation of said relay upon energization of its first winding, the current in the output circuit of said other amplifier in response to voice currents being larger than the output of said one amplifier to effect the energization of the second winding of the relay and thus prevent the operation of the relay.

2,279,979
CUTTING TOOL
James J. Gillich, Elizabeth, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 2, 1940, Serial No. 316,945
2 Claims. (Cl. 125—13)



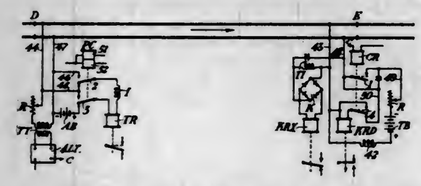
1. The method of cutting Rochelle salt by means of a rotatable disc passing through a liquid containing an abrasive which includes the step of holding a portion of quartz against the cutting edge of the disc in order to remove accumulated Rochelle salt therefrom.

2,279,980
CODED TRACK CIRCUIT SYSTEM OF RAILWAY SIGNALING
Robert M. Gilson, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application April 3, 1941, Serial No. 386,642
10 Claims. (Cl. 246—33)



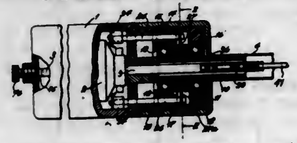
1. In combination, a stretch of two-direction running railway track, a track section included in said stretch, master code equipment located at a given end of said section and effective to supply the section rails with master code energy in the form of recurring "on" period pulses that are separated by "off" period intervals, feed back apparatus located at the opposite end of said section and operable when and only when said master code pulses are there received further to supply the section rails with feed back energy in the form of pulses that recur in step with the "off" periods of the received master code, supplemental equipment also at said opposite section end which comes into operation only when said feed back apparatus is maintained inactive by failure of said master pulses to be transmitted to that opposite end and which then supplies the section rails with special code energy in the form of recurring pulses that have no regular time coincidence with the aforesaid master code "off" periods, and means effective during the continuance of said feed back apparatus inactivity for interchanging at time spaced intervals the "on" and the "off" periods of the said coded energy that is supplied at one of said two section ends whereby to disrupt any vacant section coincidence of said special code and master energy pulses that following removal of a shunt from the section rails may initially prevent those master pulses from reaching said opposite section end and there restoring said feed back apparatus to its normal condition of vacant section operation.

2,279,981
CODED TRACK CIRCUIT SIGNALING SYSTEM
Louis Girardin, Paris, France, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application January 25, 1940, Serial No. 315,553
In France April 15, 1939
12 Claims. (Cl. 246—34)



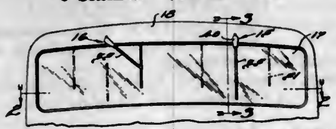
1. In combination, a section of railway track over which traffic moves in a given direction, a first track circuit for said section which includes a first track relay at the section entrance end and a source of direct current energy at the section exit end, a second track circuit for said section which includes a second track relay at the section exit end and a source of direct current energy at the section entrance end, apparatus which connects said entrance end source across the rails of said section in series with the winding of said first track relay and thereby allows current from said source to pass through said winding and maintain a given polarity difference of potential between said rails, other apparatus which at times is effective to connect said exit end source across said section rails in such a way as to establish between those rails a difference of potential that is of the aforesaid given polarity and that substantially discontinues the flow of said entrance end source current through the winding of said entrance end track relay and which at other times is effective to connect said exit end track relay across said rails in such a way as to impress thereon the said trackway potential that said entrance end source maintains, and traffic governing apparatus controlled by each of said two track relays.

2,279,982
ROTARY TOOTHBRUSH
Henry L. Glynn, St. Louis, Mo.
Application March 15, 1939, Serial No. 261,888
6 Claims. (Cl. 15—23)



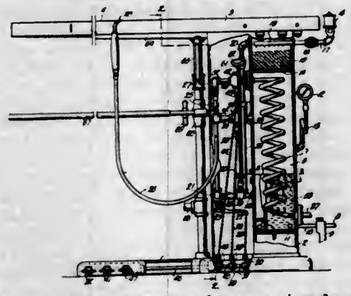
2. In a rotary toothbrush having rotary driving means, a rotary brushing element having a spindle connected with said driving means, a guard for said brushing element mounted for rocking movement with respect to said spindle, and means operable by movement of said guard to control the rotation of said brushing element.

2,279,983
WINDSHIELD CLEANER
Gilbert C. Goode, Birmingham, and Vernon W. Sherman, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application November 5, 1938, Serial No. 238,940
6 Claims. (Cl. 15—253)



1. In a cleaner for a windshield having a curved surface, a vertically disposed wiper blade member for cleaning said surface, said wiper blade being adapted to be oscillated over said surface by means of an arm pivoted thereto and to a support outwardly of said surface, means for oscillating said blade member over said surface and for maintaining said blade member in its vertical position during said oscillation whereby said blade member has continuous straight line contact with said surface, comprising cable operated means.

2,279,984
SPOTTING BOARD
Don O. Goodwin, St. Louis, Mo.
Application July 5, 1940, Serial No. 344,085
6 Claims. (Cl. 68—5)



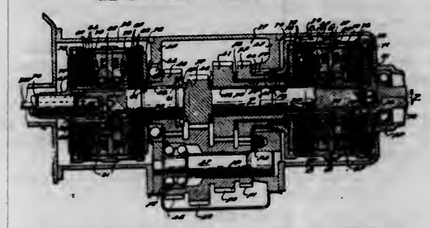
5. In a spotting board, a base, a standard supported by said base, said standard forming a housing, a stand-pipe within said housing, a steam trap, means providing communication between said stand-pipe and said steam trap, a reducing valve, a pipe providing communication between a source of steam under pressure and said reducing valve, means providing communication between said reducing valve and said housing below the top of said standpipe, a heat exchange coil extending through said housing, means providing communication between a source of compressed air and one end of said heat exchange coil, a flexible conduit, a nozzle at one end of said flexible conduit, means providing communication between the other end of said flexible conduit and the heat exchange coil, a valve for controlling said communicating means, a steam outlet pipe from said housing above said stand-pipe, means providing communication between said steam outlet pipe and said flexible conduit, a valve for controlling said steam outlet pipe.

6. A spotting board including in combination a housing, a stand-pipe within said housing, a steam trap communicating with said stand-pipe, said stand-pipe being adapted to maintain a body of condensate of predetermined level within said housing, means for introducing steam into said body of condensate, permeable supporting means within said housing above the standpipe, steam permeable absorbent material supported on said supporting means, means for impregnating said permeable material with a detergent, a steam outlet pipe from said housing above said supporting means, the construction being such that wet detergent-laden steam will be withdrawn from said housing, a flexible conduit, means providing communication between said steam outlet pipe and said flexible conduit, and a valve for controlling said communicating means.

2,279,985
PROCESS FOR THE MANUFACTURE OF CHLORIDES OF CARBOXYLIC ACIDS
Charles Graenacher, Riehen, and Carlo Rossi, Basel, Switzerland, assignors to the firm of Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application March 29, 1940, Serial No. 326,802. In Switzerland April 15, 1939
8 Claims. (Cl. 260—408)

1. A process for the manufacture of chlorides of carboxylic acids, comprising treating carboxylic acids containing at least 8 carbon atoms with phosgene at temperatures higher than 100° C. in the presence of a small amount of a salt of a tertiary amine.

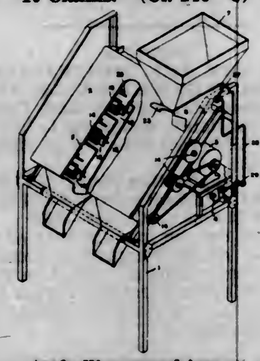
2,279,986
MOTOR VEHICLE
Walter R. Griswold, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application May 13, 1938, Serial No. 207,750
11 Claims. (Cl. 74—365)



1. A change speed mechanism comprising a drive shaft, an intermediate shaft, a driven shaft, said shafts being in coaxial relation, a gear fixed on the intermediate shaft between the ends

thereof, a pair of sleeves rotatably mounted on the intermediate shaft one on each side of the gear fixed thereon, a gear fixed on the end of each sleeve adjacent the gear on said intermediate shaft, clutch means secured to the other end of each sleeve, clutch means secured to the opposite ends of the intermediate shaft, clutch means secured to said drive shaft and operable to engage the adjacent clutch means on the intermediate shaft or the clutch means on the adjacent sleeve, clutch means secured to said driven shaft operable to engage the other intermediate shaft clutch means or the other sleeve clutch means, a lay shaft parallel with the intermediate shaft, gears fixed on said lay shaft meshing with the gears on said sleeves and said intermediate shaft, a reverse gear fixed on said lay shaft, an outer sleeve loosely mounted on the sleeve nearest said driven shaft and fixed to the clutch means on the driven shaft, a reverse gear fixed on said outer sleeve, a slidable gear for engaging with said reverse gears, with said slidable gear, means for selectively engaging the clutch means associated with the drive and driven shaft and the sleeves, and means for shifting said slidable gear into and out of engagement with said reverse gear.

2,279,987
NUT SHELLING MACHINE
Salvador Guerra, San Antonio, Tex., assignor to Leon K. Maulsby, San Antonio, Tex.
Application June 23, 1941, Serial No. 399,281
10 Claims. (Cl. 146—8)

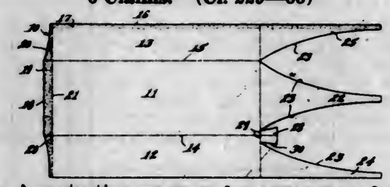


1. In a nut shelling machine, a plurality of shelling chambers mounted side by side with their floors in alignment on a transverse inclined plane, inlet and discharge openings communicating between adjoining chambers, a longitudinal discharge slot in the floor of each chamber adjacent the lower side wall thereof, a longitudinally disposed and centrifugally expanded impact assembly adjustably supported in each of said chambers and disposed in the paths of the gravitating material in motion on the incline of the chamber floors said impact assemblies being located immediately above said longitudinal discharge slots in the floors of said chambers with said impact assemblies extending the length of said longitudinal discharge slots and driving means for said impact assemblies.

2,279,988
PAPER
Worthie W. Haynes, South Bend, Ind.
No Drawing. Application June 19, 1939, Serial No. 279,917
2 Claims. (Cl. 250—71)

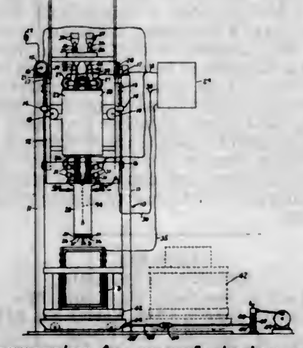
1. A sheet of paper having distributed through the fibrous interstices thereof so as to thoroughly impregnate the same a luminous sulphide, the surfaces of said sheet being free from excessive amounts of the impregnating material, said sheet being translucent and having the property of being luminous.

2,279,989
NEWSPAPER WRAPPER
Samuel E. Hirschberg, Chicago, Ill.
Application November 3, 1938, Serial No. 238,551
6 Claims. (Cl. 229—88)



1. A protecting wrapper for newspapers for delivery purposes formed of water proof material and in the form of an elongated pocket having a closed end and an opposite open end, and tapered tying extensions at the open end of a length greater than half the length of the pocket.

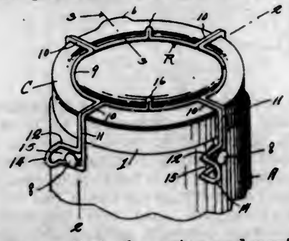
2,279,990
METAL PRODUCING APPARATUS
Robert K. Hopkins, New York, N. Y., assignor to The M. W. Kellogg Company, New York, N. Y., a corporation of Delaware
Application December 26, 1940, Serial No. 371,630
26 Claims. (Cl. 22—58)



1. In apparatus for manufacturing composite metal articles made up of a body of base metal to which is united a depth of coating metal, a mold having a mold space defined at least in part by vertical surface of the body of base metal to be coated, electrode means adapted to produce molten metal in said mold space, means for raising said electrode means as the level of the liquid metal rises in said mold space, said electrode means being less in width than the length of said mold space, means for reciprocating said mold relative to said electrode means, and means for adjusting the length of the reciprocating movement to subject the full length of said mold space to the action of said electrode means.

2,279,991
JAR CLOSURE
John K. Hotchkiss, Canaan, Ind., assignor of one-half to Edward W. Tilley, Vevay, Ind.
Application May 21, 1941, Serial No. 394,544
3 Claims. (Cl. 215—38)

3. The combination with a jar having lugs extending outwardly therefrom adjacent to its open end; of a closure member for the open end of the jar and a retaining member for holding the closure member to the jar, said retaining member comprising a central annular member to overlie the closure member, outstanding arms carried by the annular member, said arms being of a length to extend beyond the periphery of the closure member, the outer extremities of said arms being continued by substantially perpendicularly related arms of a length to overlie the open end portion of the jar when the closure



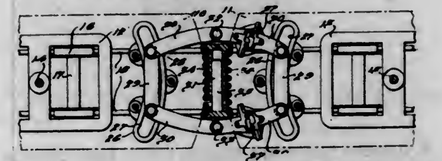
member is applied, the outer end portions of the second arms being continued by the laterally directed spaced elements providing slots therebetween to receive the lugs of the jar upon turning movement of the retaining member in one direction, outwardly disposed arch members provided at the outer extremities of said spaced elements and connecting the same, and substantially diametrically disposed and upstanding lugs carried by the annular member to provide means to facilitate turning movement of the retaining member.

2,279,992
HINGE CONSTRUCTION
Clifford C. Jackson, Highland Park, and Ira E. Johnson, Huntington Woods, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application September 5, 1940, Serial No. 355,430
10 Claims. (Cl. 16—135)



1. A deck lid hinge construction for the deck lid of a compartment, comprising a fixed pivot mounted in said compartment, a toggle having the end of one arm pivotally connected to said fixed pivot and having its other arm provided with a longitudinal slot, the arm of said toggle connected to said fixed pivot having an integral extension attached to the deck lid and forming the operating lever of the toggle, a guide member mounted in fixed position in said compartment and extending through said slot, said guide member, fixed pivot, and arms being so arranged with respect to the deck lid that the joint of said toggle passes beyond a straight line between said guide member and said fixed pivot in one direction when the deck lid is completely closed and in the opposite direction when the deck lid is moved toward raised position, a spring arranged to be compressed by said toggle as the joint of said toggle is moved toward a line between raid guide member and said fixed pivot whereby said spring tends to retain the deck lid in closed position, to aid in raising the deck lid from a partially opened position to raised position, and to resist closing of the deck lid, and complementary snap-engaging means associated with a fixed portion and a movable portion of said hinge construction and adapted to engage each other when the deck lid is in raised position to hold the deck lid in raised position.

2,279,993
VEHICLE DRAFT MEANS
Robert N. Janeway, Detroit, Mich., assignor, by mesne assignments, to Railroad Rolling Stock Patents Corporation, a corporation of Delaware
Application January 12, 1940, Serial No. 313,547
Original application February 8, 1937, Serial No. 124,558. Divided and this application January 12, 1940, Serial No. 313,547
9 Claims. (Cl. 213—12)



1. In vehicle draft means, an arcuate guide member adapted to be fixedly mounted on a vehicle adjacent one end thereof and disposed transversely with respect thereto; a roller structure including a plurality of rollers and means for maintaining said rollers in spaced relation carried by said guide member and adapted for rolling movement relatively thereto; a pair of links respectively pivotally secured at one end thereof to said roller structure; rectilinear guide means pivotally connected to the spaced opposite ends of said links including means for yieldably restraining relative movement between said opposite ends; and vehicle coupling means operatively associated with said guide means and links respectively, and constructed and arranged such that draft forces tending to cause movement of said links toward and away from each other are cushioned by said guide means.

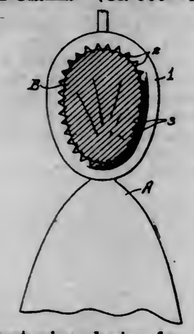
2,279,994
APPARATUS FOR APPLYING MATERIAL TO PARTS
Albert Jones, Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application February 8, 1939, Serial No. 255,200
1 Claim. (Cl. 144—280)



In an apparatus for use in applying material to parts, a container of material, a material applying means having a plurality of like rigid members formed with sets of lateral upper material applying surfaces and rigid projections interposed singly between the surfaces of each set, said projections having rigid material applying end surfaces lying in a pair of spaced planes transversely to a plane of the lateral surfaces and extending above the lateral surfaces, and means to cause movement of the material applying means from the container to cause the said surfaces to remove quantities of material there-

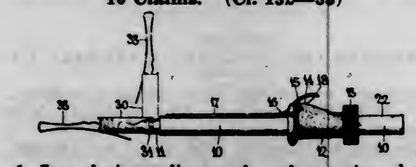
from and deposit the quantities of material at definite spaced positions on adjacent lateral and angular surfaces of a plurality of parts.

2,279,995
HANDLE FASTENING DEVICE
Alfred D. Jones, Pemberton, N. J.
Application March 31, 1941, Serial No. 386,187
1 Claim. (Cl. 306—37)



A handle fastening device for a tool provided with a head having a tapered socket portion and a handle having an enlarged tapered outer end portion fitting the head to set up a wedging action therewith, and said device comprising a relatively wide thin oval shaped plate like ring to fit and surround the handle for engagement with the inner shoulder of the socket portion, and substantially triangular shaped teeth formed on and extending from and about the entire inner periphery of the ring at a slight angle beyond the outer face thereof to penetrate the handle for cooperation with the wedging action to prevent casual removal or displacement of the head with respect to the handle.

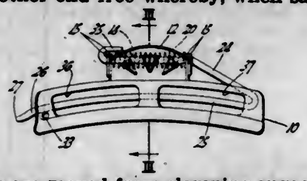
2,279,996
HAIR CURLER
Edward Kantor, New York, N. Y.
Application December 30, 1940, Serial No. 372,243
10 Claims. (Cl. 132—33)



1. In a hair curling and curl securing device, a hollow cylindrical curl-receiving mandrel, a rod therein, handle means disposed about said mandrel, said rod and said handle being secured for joint axial movement relative to said mandrel, whereby an end of said rod may be drawn into said mandrel or projected therefrom, and an end portion of said rod being pivotally secured to the remainder thereof, whereby such end portion may be disposed at an angle to the remainder of the rod when such end portion is disposed outside the mandrel, said pivoted end portion being formed to support a curl securing element.

2,279,997
HAIR WAVING DEVICE
Edward Kantor, New York, N. Y.
Application December 30, 1940, Serial No. 372,244
6 Claims. (Cl. 132—33)

1. In a hair waving device, a pair of elements hinged together to provide clamp portions adapted to be moved to and from clamping engagement with respect to each other, a rod extending between said clamp portions substantially parallel to the axis of the hinged connections of said elements, said rod being secured to said pair of elements at one of its ends and having its other end free whereby, when said clamp



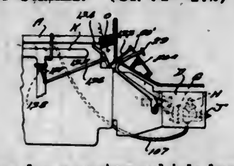
portions are moved from clamping engagement, a strand of hair may be picked up with said rod and disposed thereover to be clamped in folded condition when the clamp portions are moved to clamping position to form a hair wave, and means associated with said hinge and said rod for automatically maintaining said rod disposed substantially midway between said clamp portions when said clamp portions are open.

2,279,998
SLIDE CLOSURE
Jacob Laitman, Brooklyn, N. Y.
Application June 12, 1941, Serial No. 397,716
4 Claims. (Cl. 24—207)



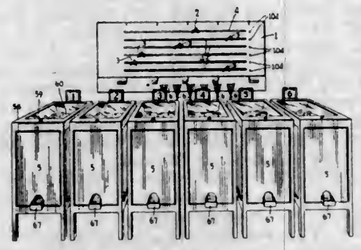
3. In a slide fastener, a slide comprising a single strip of sheet material slit inward from one end a distance short of the opposite end of the strip, material at opposite sides of the end of the slit being curled in opposite directions toward the opposite end of the strip in bead encircling loops and the material at said opposite end of the strip being formed into a connector encircling loop.

2,279,999
POWER TRANSMISSION
Ian C. McKechnie, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application November 14, 1940, Serial No. 365,568
15 Claims. (Cl. 74—472)



1. In a drive for a motor vehicle having an engine; transmission mechanism operable to provide a drive between the engine and the vehicle, said mechanism including positively engageable drive-control elements one of which is movable into engaging relationship with the other to accommodate said drive and into disengaging relationship with respect to said other element to release said drive, said elements when relatively engaged being subject to thrust-application therebetween during said drive so as to resist relative disengagement thereof to release said drive until said thrust-application is relieved; means operable to cause relief of said thrust-application; means operating to control movement of said movable element; and inertia means operably associated with said control means for effecting operation of said relief means.

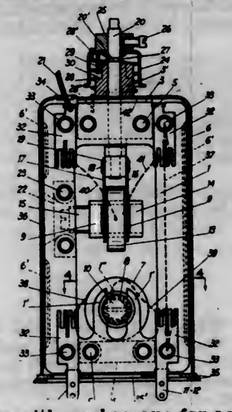
2,280,000
RACING GAME
Preston S. Millar, Scarsdale, and Peter Garms, Huntington, N. Y.
Application May 11, 1940, Serial No. 334,514
5 Claims. (Cl. 273—86)



1. A racing-game consisting of a race-course, a plurality of racers movable over said course, means detachably connectible to each racer for moving it in one direction over said course independently of the others at a predetermined speed, means detachably connectible to each racer for moving it in the same direction over said course independently of the others at a predetermined speed which differs from said first-mentioned speed and for moving all of said racers in the opposite direction simultaneously and at the same speed, means controlled by chance for disconnecting said first-mentioned moving means from each racer independently of the others and for simultaneously connecting said second-mentioned moving means to the same racer to move it in the same direction, manually-operated means for actuating said chance-controlled means, and additional manually-operated means for connecting said second-mentioned moving means to all of the racers to move them simultaneously in said opposite direction.

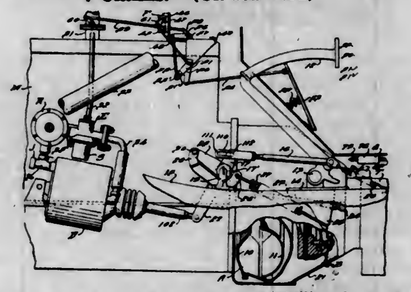
2,280,001
VARIABLE COUPLING TRANSFORMER
Gaetano Monti Guarnieri and Giacomo Caletti, Milan, Italy, assignors to Fabbrica Italiana Magneti Marelli Società Anonima, Milan, Italy, a corporation of Italy
Application December 13, 1939, Serial No. 309,080
In Italy December 29, 1938
11 Claims. (Cl. 171—119)

1. A variable coupling transformer for radio sets comprising two parallel and spaced coextensive apertured plates of insulating material, spacers intermediate said plates at the ends thereof, means interconnecting said plates and spacers in a frame structure, prongs in said plates adjacent one end thereof and extending inwardly of said frame structure towards the other end of said plates, a stationary transformer winding engaged in said prongs, a spindle rotatable in said structure and pivotally mounted in the one of said spacers located at said other end of said plates, said spindle extending on a line transverse to the axis of said stationary winding, an adjustable transformer winding mounted on said spindle to move therewith with its axis lying in a plane parallel with the axis of said stationary winding, said adjustable winding being adjacent to said stationary winding for variable



coupling therewith, and means for actuating said spindle.

2,280,002
FLUID DRIVE
Carl A. Neracher, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application June 2, 1939, Serial No. 277,047
7 Claims. (Cl. 192—.01)

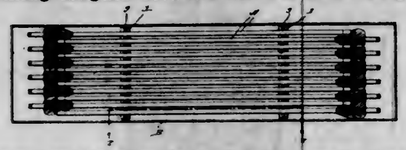


1. In a motor vehicle drive mechanism including a variable speed ratio transmission and a fluid coupling, power operated means for releasing the drive of said coupling; electrically operable means for controlling the operation of said power operated means; a throttle control element on said vehicle adapted to be manipulated by the driver thereof; a switch connecting one side of said electrically controlled means with a source of electrical energy and adapted to be closed when said throttle control element is in throttle closed position and to be opened when said element is moved toward open throttle position, and means for automatically rendering said electrically operable means inoperable upon the manipulation of said transmission into high speed ratio driving position at a speed in excess of approximately five miles per hour.

2,280,003
ARROW HOLDER
Ben Pearson, Pine Bluff, Ark.
Application July 23, 1940, Serial No. 347,035
1 Claim. (Cl. 206—1)

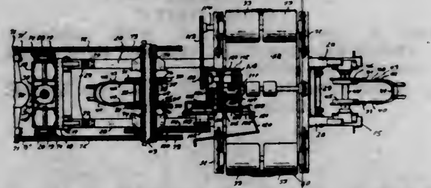
Holder means of the class described comprising a supporting member, a strip of resilient material having its lower portion supported by

the member, said resilient strip having slots extending downwardly from its upper edge with the slots spaced apart to receive objects, the slots forming tongues between them and the tongues



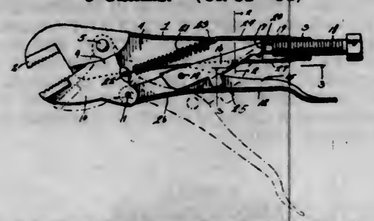
having enlarged ends and each tongue having grooves in the side edges of said enlarged ends for making the side edge portions of said side edges of each tongue very flexible.

2,280,004
ROTARY WHEEL TRENCHING MACHINE
Vincent S. Penote, Cleveland, and Albert R. Askue, Mentor, Ohio, assignors to The Cleveland Trencher Company, Cleveland, Ohio, a corporation of Ohio
Original application October 13, 1939, Serial No. 299,306. Divided and this application May 6, 1940, Serial No. 333,480
2 Claims. (Cl. 37—97)



1. In a trenching machine, a frame, a digging wheel mounted therein, said wheel including a pair of spaced annular rings, a shaft parallel to the axis of said rings, a member rotatably mounted on said shaft in engagement with the periphery of both rings and provided with radially extending flanges to engage the outer faces of said rings, each ring having a plurality of driving teeth formations secured to its outer face, a pair of gears mounted on said shaft and arranged and adapted to engage said teeth formations, and wherein each of said gears overhang the flanges of said members whereby the teeth of such gears may embrace said rings and are protected by said member from strains set up by said wheel.

2,280,005
WRENCH
William Petersen, De Witt, Nebr.
Application August 17, 1940, Serial No. 353,142
3 Claims. (Cl. 81—84)



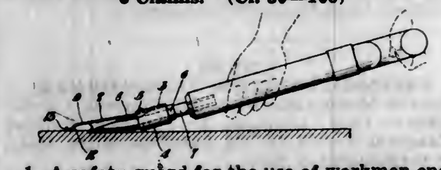
3. A tool of the character described embodying a handle provided with a stationary jaw, a pivotally mounted jaw, a toggle including a pair of pivotally connected sections, one end of one of the sections of the toggle being pivotally connected with the pivot jaw, the free end of another of the sections of the toggle extending into and freely movable lengthwise of said handle, an adjustable fulcrum with which said free end of said toggle section engages, the last said end of the toggle section being enlarged, the portion of the handle in which said enlarged end moves being of channel formation, portions of the handle being shaped to form overhanging portions of substantial length and shaped to form a slot of substantial length between the adjacent edges of said overhanging portions, said slot being open at one end, the enlarged portion of the toggle section being movable under said overhanging portions of the handle, the toggle section operating in said slot whereby the free end of the last said toggle section will at all times, regardless of the position of said adjustable fulcrum, be maintained against separation from the handle and a hand engaging portion connected with one of the sections of said toggle for actuating the toggle to swing said pivotally mounted jaw about its pivot and said toggle element upon its fulcrum.

2,280,006
TIRE RIVET
Carl Pfeifer, Milwaukee, Wis.
Application May 8, 1940, Serial No. 333,891
1 Claim. (Cl. 152—370)



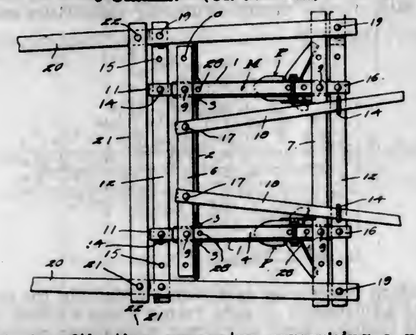
A device of the character described comprising a stem and base of relatively elastic material, and a patch of relatively inert and tougher material having an aperture therein to receive the stem.

2,280,007
SAFETY GUARD FOR PNEUMATIC CHIPPING HAMMERS AND THE LIKE
Stephen Plateck, Youngstown, Ohio
Application March 12, 1940, Serial No. 323,615
6 Claims. (Cl. 30—168)



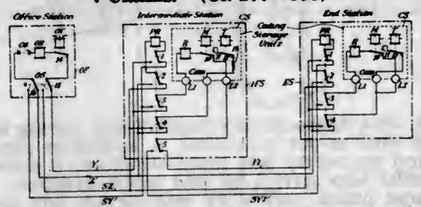
1. A safety guard for the use of workmen operating pneumatic chipping hammers and the like comprising a longitudinally extending inherently resilient deflecting shield member adapted to be positioned over the working tool of the hammer, a pliable annular member to which the inner end of said shield is securely attached, said annular member adapted to fit tightly around the shank of the working tool, and an outwardly and downwardly extending portion arranged on the outer free end of said shield which is adapted to rest upon the workpiece during the working of the tool and to be held thereagainst by the resilient action of said shield member, said outwardly and downwardly extending portion being constructed and arranged so that the same will rest upon the workpiece at a point beyond the working edge of the tool when the tool is substantially parallel to the surface of the workpiece and at all times when the tool is in use.

2,280,008
CULTIVATING APPARATUS
John H. Rooks, Springvale, Ga.
Application March 6, 1941, Serial No. 382,074
6 Claims. (Cl. 97—172)



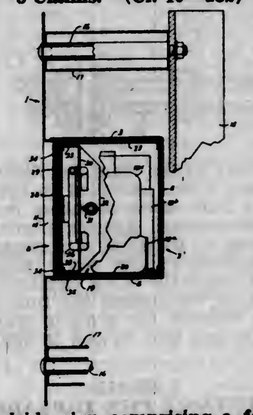
4. A cultivating apparatus comprising a pair of substantially U-shaped side members, transverse beams interposed between and connecting the base portions of the side members, top cross beams, means for securing said top beams to the upper extremities of the side arms of the U-shaped members, handle members secured to the forward lower cross member and to the rear upper cross member, draft rigging secured to the upper cross beams, and ground working members operatively supported by the side members.

2,280,009
RAILWAY TRAFFIC CONTROLLING APPARATUS
Robert M. Rosensteel, Franklin Township, Westmoreland County, Pa., assignor to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application March 27, 1941, Serial No. 385,404
7 Claims. (Cl. 177—353)



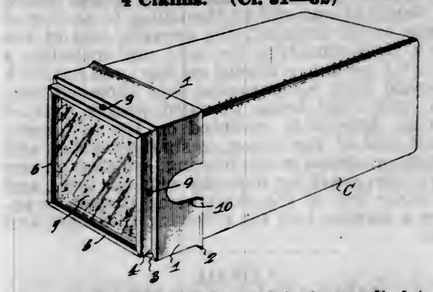
3. In combination, an office station and a field station spaced apart, a normal and a spare line circuit extending between such stations, a repeater relay at said field station, a current source and a two position switch at the office station, a polar relay at the field station characterized by the fact that the stroke of the polar armature is completed when current is supplied to the relay winding for an interval long enough to move the armature away from its last position, said polar relay winding connected to said normal and spare line circuits over reverse and normal contacts of the relay respectively, said repeater relay connected to said normal and spare line circuits over normal and reverse contacts of said polar relay respectively, means including a first position of said switch to connect said current source to said normal line circuit as required to energize the polar relay at normal polarity for operating the polar relay to its normal position to connect said repeater relay to the normal line circuit, and means including the other position of the switch to connect said current source to said spare line circuit as required to energize the polar relay at reverse polarity for operating the polar relay to its reverse position to connect said repeater relay to the spare line circuit.

2,280,010
SIGN
Earle S. Smith and Daniel M. Meeker, Toledo, Ohio, assignors to The Toledo Porcelain Enamel Products Company, Toledo, Ohio, a corporation of Ohio
Application March 16, 1940, Serial No. 324,383
8 Claims. (Cl. 40—132)



2. A roadside sign comprising a face plate, a compartment fixed to the rear of said face plate, and a removable and replaceable drawer adapted to be contained in said compartment, said face plate having an opening in front of said compartment, said drawer having stencil-like indicia which are positioned behind said opening when said drawer is contained in said compartment, said drawer carrying mechanism for causing illumination behind said stencil-like indicia and means to energise said illuminating mechanism.

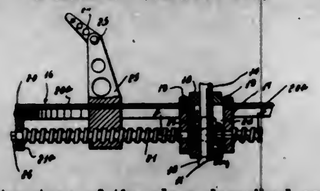
2,280,011
CHEESE COVER
Jermain Alden Spooner, Parsons, Kans.
Application January 9, 1939, Serial No. 249,966
4 Claims. (Cl. 31—32)



1. A cheese cover adapted to be applied to an end of a substantially square cheese loaf, comprising an enclosing casing having surrounding side walls adapted to embrace and closely fit an end of the cheese loaf, and a transparent window within the confines of the walls and closing said casing at the front thereof, means within the casing forming a shoulder therein at a plurality of edges of the window limiting the movement of

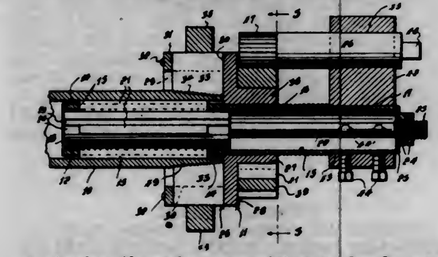
the cheese loaf toward the window and holding the same spaced therefrom, said window being substantially normal to the axis of the casing, the opposite end of the casing being open and unobstructed between the side walls for slidably receiving the cheese loaf therein.

2,280,012
PAY OUT REEL
Frank Stasio, Corry, Pa.
Application May 14, 1941, Serial No. 393,431
3 Claims. (Cl. 242—114)



1. A structure of the class described comprising a standard, a reel swivelled on the standard comprising a hub, screw members mounted by the hub, interengaged gearing carried by the screw members at the hub, wire engaging arms movably mounted by the screw members, an outer ring in which the screw members are journaled, and rods connecting the hub and outer ring passing through the arms to maintain the latter upright and also serving to support wire.

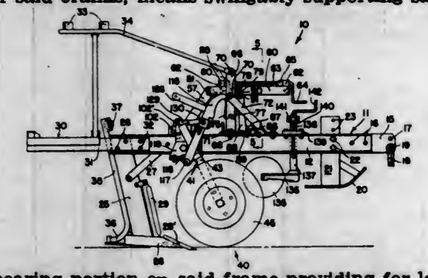
2,280,013
ADJUSTABLE PIPE THREADER
Alfred M. Stultz, Arkansas City, Kans.
Application July 17, 1941, Serial No. 402,857
5 Claims. (Cl. 10—89)



1. A pipe threader comprising a chuck, means for clamping one end of the chuck to an end of a pipe to be threaded, the opposite end of the chuck projecting from the pipe, and including a threaded portion, a thread cutting head having a threaded bore for engaging said threaded portion, said head being provided with a gear, a bearing detachably mounted on the last mentioned end of the chuck, a shaft turnably and slidably mounted in the bearing, a pinion on one end of the shaft for meshing with the gear, and the other end of the shaft being shaped to receive a turning tool for revolving the shaft and head.

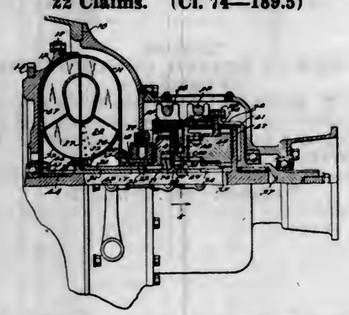
2,280,014
CABLE LAYING IMPLEMENT
Thomas M. Thomas, Huntington Park, Cecil Herold Russell, Maywood, and Oscar P. Robb, Los Angeles, Calif., assignors to Killefer Manufacturing Corporation, Los Angeles, Calif., a corporation of California
Application January 15, 1940, Serial No. 313,860
17 Claims. (Cl. 111—5)

1. An implement comprising a draft frame, a ground engaging tool mounted thereon, a supporting truck therefor including a U-shaped crank axle structure having a transverse bearing portion and a pair of laterally spaced cranks rigidly fixed thereto, a wheel journaled on each of said cranks, means swingably supporting said



bearing portion on said frame providing for lateral adjustment of said frame toward either of said cranks, depth adjusting mechanism mounted on said frame, and means slidably mounted on said bearing portion but non-rotatable relative thereto for operatively connecting said mechanism with said crank axle structure.

2,280,015
HYDRODYNAMIC TRANSMISSION
William D. Tipton, Baltimore, Md.
Application December 14, 1940, Serial No. 370,123
22 Claims. (Cl. 74—189.5)

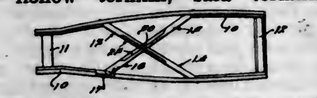


1. In a hydrodynamic transmission having input and output structures, a hydraulic pump wheel carried by said input structure; a planet carrier also carried by said input structure; a planet pinion carried by said carrier; sun and annulus gears respectively meshing with said pinion; a pair of vaned hydraulic wheels disposed in juxtaposition and connected respectively to said sun and annulus gears for rotation therewith; a vaned runner wheel connected to the output structure and disposed in such relation with respect to said pump wheel that it receives the discharge therefrom; and means for restricting rotation of said annulus gear in the direction of rotational tendency thereof caused by fluid reaction imposed on the hydraulic wheel connected thereto.

2,280,016
VEHICLE FRAME
Albert B. Werdehoff, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application January 15, 1940, Serial No. 313,908
14 Claims. (Cl. 280—106)

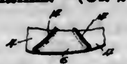
1. An X-brace for a motor vehicle frame comprising four arm members, each having a pair of

spaced hollow termini, said termini being



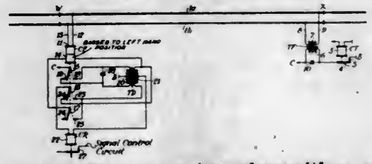
brought together in abutting relation at the center of the X-brace.

2,280,017
PAJAMAS
Max Wilker, Bridgeport, and Samuel Wilker and Herman Wilker, South Norwalk, Conn.
Application October 31, 1940, Serial No. 363,762
2 Claims. (Cl. 2—227)



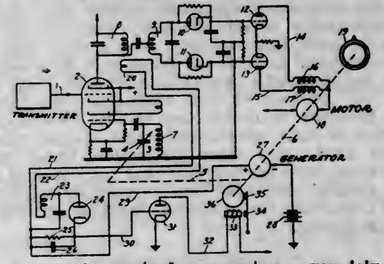
1. A bifurcated garment comprising a body having leg extensions, the said body and its leg extensions consisting of a front section and rear sections, the front section having body and leg forming portions and a tongue between the leg forming portions integrally united at its upper end to the body-forming portion between upper ends of the leg-forming portions, the rear sections being seamed along their outer side edges to the side edges of the front section, the inner side edges of the rear sections each having diagonally extending upper and lower portions converging toward their inner ends in a direction to gradually increase the width of the section and intersecting at the crotch level of the garment, the lower portions of the inner edges of the rear sections being seamed to inner side edges of the leg extensions of the front section and upper portions of the inner side edges of the rear sections diverging upwardly at the back of the garment, and said tongue being passed rearwardly between upper ends of the leg extensions and upwardly and seamed along its side edges to the diagonally extending upper portions of the inner edges of the rear sections to form a crotch portion integral with the front section and a seat portion at the back of the garment.

2,280,018
SIGNALING APPARATUS
Edward J. Agnew, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application May 18, 1939, Serial No. 274,414
6 Claims. (Cl. 178—67)



1. In signaling apparatus wherewith a circuit is supplied with a signaling current consisting of time spaced current impulses with each such current impulse of short duration as compared with the duration between successive impulses, the combination comprising, a code following relay biased to a first position when deenergized and operable to a second position when effectively energized for closing first position contacts and second position contacts respectively, said relay provided with an operating winding and a holding winding with the operating winding connected with said circuit for effectively energizing said relay and operating it to its second position in response to each of said current impulses, said holding winding deenergized at said first position, a transformer, means including a first position contact and a second position contact of said relay to alternately supply direct current to two portions of the primary winding of said transformer to induce an electromotive force in the secondary winding of said transformer in response to operation of said relay, a first circuit means to connect the secondary winding of said transformer with the holding winding of said relay in such manner that the electromotive force induced in the secondary winding when the relay is operated to said second position causes current to flow in the holding winding which effectively energizes said relay and retains the relay at its second position for an interval after each said current impulse ceases to flow in the operating winding, and a second circuit means connected with said secondary winding and governed by contacts of said relay for controlling a signaling device by the electromotive force induced in said secondary winding.

2,280,019
REMOTE CONTROL APPARATUS
Harald Valdemar Alexandersson and Carl-Erik Granqvist, Stockholm, Sweden, assignors to Aga-Baltic Radio Aktiebolag, Stockholm, Sweden, a corporation of Sweden
Application October 8, 1940, Serial No. 360,314
In Sweden September 6, 1939
12 Claims. (Cl. 172—239)

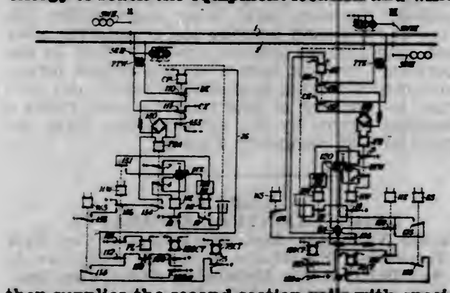


1. A remote control apparatus comprising an object to be controlled, a receiver for oscillations of different frequencies, variable tuning means, drive means responsive to variations in the received frequency to shift said tuning means and said object by an amount dependent upon said frequency variations, a resonant circuit tuned to a frequency which determines the position of rest of said tuning means and connected to be fed by oscillations of a frequency dependent upon the instantaneous position of said tuning means, and means controlled by the energy in said resonant circuit to exert a braking effect on said drive means which increases to a maximum as the position of resonance is reached, whereby over-control and hunting are avoided.

2,280,020
CODED TRACK CIRCUIT SYSTEM OF RAILWAY SIGNALING
Leslie R. Allison, Forest Hills, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application April 3, 1941, Serial No. 386,615
8 Claims. (Cl. 246—33)

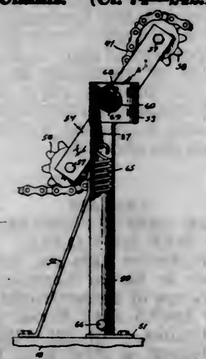
1. In combination, a stretch of two-direction running railway track, adjoining first and second track sections included in said stretch, master

code equipment located at the junction of said first and second sections and effective to supply the second section rails with master code energy in the form of recurring "on" period pulses that are separated by "off" period intervals, feed back apparatus located at the remote end of said second section and operable when and only when said master code pulses are there received further to supply the second section rails with feed back energy in the form of pulses that recur in step with the "off" periods of the received master code, supplemental equipment also at the remote end of said second section which comes into operation only when said feed back equipment is maintained inactive by failure of said master energy to reach the equipment location and which



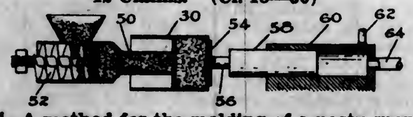
then supplies the second section rails with special code energy in the form of recurring pulses that have no regular time coincidence with the aforesaid master code "off" periods, means for maintaining said second section master code equipment inactive under shunted conditions of the rails of said first section, and means effective upon removal of a shunt from said first section rails for delayedly interchanging the "on" and the "off" periods of said second section master code whereby to disrupt any vacant section coincidence of said special code and master energy pulses that may have prevented those master pulses from earlier reaching said second section remote end and there restoring said feed back apparatus to its normal condition of vacant section operation.

2,280,021
CHAIN TIGHTENER
Albert R. Askue, Mentor, Ohio, assignor to The Cleveland Trencher Company, Cleveland, Ohio, a corporation of Ohio
Application April 7, 1941, Serial No. 387,165
7 Claims. (Cl. 74—242.11)



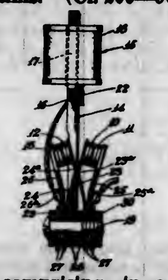
1. A tensioning device for a flexible driving member such as a chain or belt, said device comprising a rotatable member having means to engage the flexible member, an eccentric secured to said member, a tension spring, flexible means connecting one end of said spring to said eccentric and adapted and arranged to be wrapped around the periphery of said eccentric consequent upon rotation of said rotatable member, and means affixing the other end of said spring at a fixed point remote from said shaft.

2,280,022
METHOD AND APPARATUS FOR MOLDING CELLULOSIC STRUCTURES
Thomas F. Banigan, Kenmore, and Omar E. Snyder, Buffalo, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application June 15, 1937, Serial No. 148,320
12 Claims. (Cl. 18—30)



1. A method for the molding of a pasty sponge mass comprising essentially an intimate mixture of viscose, fibrous material and pore-forming material, said solid materials being subject to objectionable orientation when said mass is forced along a continuous surface, which comprises extruding the pasty mass along a helical path and through a conduit into a mold, compressing the pasty mass after it leaves the helical path but before it leaves the conduit to enter the mold, changing the direction of flow of the pasty mass as it passes from the conduit, and collecting the pasty mass in the mold in such a manner as to prevent substantial flow of the pasty mass along the walls of the mold, whereby objectionable orientation of the solid materials in the pasty mass is avoided.

2,280,023
VIBRATOR
Edward L. Barrett, La Grange, Ill., assignor to Utah Radio Products Company, Chicago, Ill., a corporation of Illinois
Application July 1, 1939, Serial No. 282,469
3 Claims. (Cl. 200—90)



1. A vibrator comprising, in combination, a supporting frame, a resilient vibratory reed fashioned in the form of a flat strip of thin metal and fixed at one end to said frame to project therefrom in cantilever form for vibration of the projecting free portion of the reed, means including an electromagnet for starting and maintaining said reed in vibration at a frequency determined generally by the inherent natural frequency of the reed, a resilient contact finger lying along one side of said reed in position to be flexed laterally by the reed during vibration of the latter, means for supporting said finger on said frame independently of said reed so as to leave the latter free for flexure throughout its length without obstruction from any contact structure secured to it, a first contact point fixed on the outer side of said finger, means for supporting a second cooperating contact point in opposed and normally spaced relation to the first contact point in position to be contacted by the latter upon lateral flexure of said finger, and said finger being bent laterally to position a portion thereof in rubbing frictional contact with said reed during the latter's vibration for damping out secondary vibrations in said finger.

2,280,024
METHOD OF PRESERVING
Robert H. Bedford, New York, N. Y., assignor to The Atlantic Coast Fisheries Company, New York, N. Y., a corporation of Maine
No Drawing. Application July 7, 1938, Serial No. 217,923
13 Claims. (Cl. 99—160)

10. A method of preserving fresh fish viscera containing vitamin-bearing oil which consists in increasing the hydroxyl ion concentration to a pH in excess of 9.0.

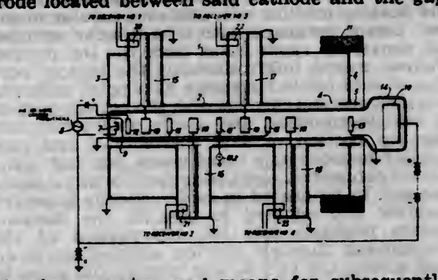
2,280,025
SEPARABLE SURGICAL STOCKING
James M. Bollinger, New York, N. Y.
Application August 8, 1940, Serial No. 351,844
2 Claims. (Cl. 128—165)



2. In a surgical stocking body having a closable open side, said stocking body having one of its edges along its open side bent inwards, snap fastener elements arranged in vertical rows along the inside face of said stocking body adjacent said inwardly bent edge, and a vertical row of complementary snap fastener elements mounted on the adjacent face of said inwardly bent edge and selectively engageable with a vertical row of said first mentioned snap fastener elements for controlling the operative diameter of said stocking body.
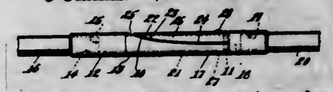
2,280,026
ULTRA SHORT WAVE SYSTEM
Charles H. Brown, Baldwin, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application September 1, 1939, Serial No. 293,044
11 Claims. (Cl. 250—27)

10. Electron discharge apparatus comprising a hollow resonator having a gap, means for projecting a stream of electrons through the interior of said resonator and across said gap including a cathode electrode and a collector electrode on opposite sides of said resonator, means for modulating the density of said stream in accordance with high frequency waves including a grid electrode located between said cathode and the gap



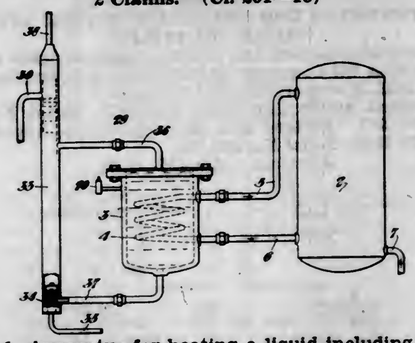
of said resonator, and means for subsequently modulating the velocity of said stream.

2,280,027
CABLE CONNECTOR
William J. Busse, Frank Wallace, and Albert W. Lanham, Carriers Mills, Ill., assignors of one-fifth to Joseph A. Bottomley, Harrisburg, and one-fifth to Alfred E. Pickard, Mount Vernon, Ill.
Application August 30, 1940, Serial No. 354,850
5 Claims. (Cl. 287—126)



1. A socket for cable connectors having a cable anchoring end and a tubular socket, the walls of said socket being cut from the periphery in an inwardly and longitudinally curved direction and then longitudinally to form a tapered tongue sprung in at its free end to constrict the bore of the socket for frictionally gripping the plug inserted therein.

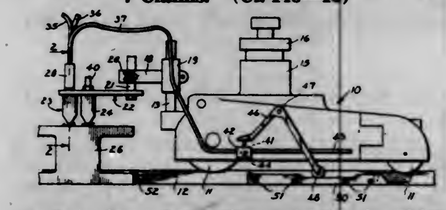
2,280,028
APPARATUS FOR HEATING LIQUIDS
Sherman Chase, Evergreen Park, and Harold Holmboe, Chicago, Ill.
Application April 13, 1939, Serial No. 267,710
2 Claims. (Cl. 261—15)



1. Apparatus for heating a liquid including, in combination, a thermotank consisting of a hollow body member with a pipe coil arranged therein through which a primary liquid to be heated is adapted to pass, a vertically arranged tubular member in which there is adapted to be disposed a secondary heating liquid, means arranged adjacent the bottom of said tubular member for conveying a heating medium into the same for heating said secondary heating liquid therein, a thermostatic element arranged with said last

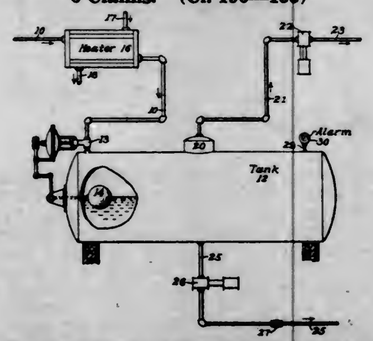
mentioned means for controlling the amount of the heating medium entering said tubular member, means arranged with said tubular member for conveying vapor gases from the top portion thereof, means interconnecting the bottom portion of said tubular member at a point adjacent the thermostatic element with the bottom portion of said thermotank, and means interconnecting the top portion of said thermotank and said tubular member at a point above said last mentioned connection, said secondary heating liquid adapted to be heated in said vertically arranged member and adapted to pass by the thermosiphon principle into the top portion of the thermotank through the top connection, down and around the coil in said thermotank so as to heat the primary liquid passing therethrough, out therefrom through the bottom connection and back into the vertically arranged member.

2,280,029
FLAME HARDENING CONTROL
John J. Crowe, Westfield, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application January 21, 1941, Serial No. 375,137
7 Claims. (Cl. 148—13)



1. In a flame hardening operation in which a heating torch is moved progressively across a work piece, the method of controlling the heat which comprises supplying an oxy-fuel gas mixture to the torch for the heating flames, diluting the oxy-fuel gas mixture with an inert gas to reduce the heat generated by the torch, and while said torch is moving progressively across the work-piece, varying the dilution inversely to the changes in the conduction losses from the region of the surface over which the torch is operating.

2,280,030
APPARATUS FOR DETECTING WATER AND OTHER VOLATILES
Edward G. Ragatz, San Marino, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Original application June 26, 1937, Serial No. 150,657. Divided and this application August 22, 1938, Serial No. 226,105
6 Claims. (Cl. 196—133)

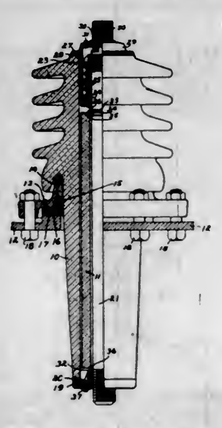


1. In a structure of the class described, a feed pipe, a heater on said pipe, a tank on said pipe, means associated with said tank adapted to remove vapors therefrom at a predetermined limited rate, and a device associated with said tank adapted to produce a warning when the pressure in said tank exceeds a predetermined upper limit.

2,280,031
BREAD MAKING
Frederick C. Weber, Eastchester, N. Y., assignor to The Keratene Company, Winsted, Conn., a corporation of Connecticut
No Drawing. Application June 29, 1940, Serial No. 343,169
1 Claim. (Cl. 99—90)

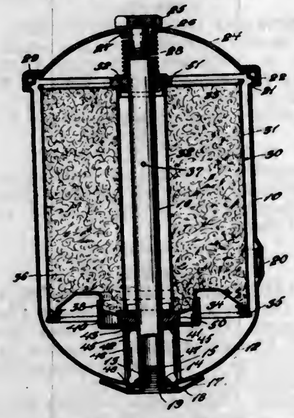
The process of making leavened bread, which comprises incorporating cystine with the ingredients of the dough batch, and fermenting the batch.

2,280,032
BUSHING INSULATOR
Thomas F. Brandt, Barberton, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application December 30, 1939, Serial No. 311,783
4 Claims. (Cl. 174—167)



1. The combination with a bushing insulator, of an integral closure member for one end of said insulator, said closure member having a supporting pocket extending into said insulator to receive and support a spring, the lower end of the pocket having an opening through which the said spring may be passed and the inner surface of the pocket wall surrounding the opening being threaded, a tension member extending through said insulator and having one end positioned in said pocket, a spring surrounding said tension member within said pocket and having bearing connection with said tension member, a removal abutment threaded into the lower end of said pocket to support said spring and transmit tension from said spring to said closure member, a threaded projection on said closure member to receive a cable connector and a threaded opening through said projection into said closure member and opposite the end of said tension member to receive a threaded tool to engage the end of the tension member and compress said spring, the thread of said opening cooperating with the thread on the tool to hold the tool rigid and to advance the tool in the direction of the tension member.

2,280,033
FILTER CARTRIDGE MOUNTING
Thomas E. Aldham, Providence, R. I., assignor to Fram Corporation, a corporation of Rhode Island
Application July 20, 1939, Serial No. 285,473
5 Claims. (Cl. 210—62)



1. An oil filter for use in the pressure lubricating system of an internal combustion engine comprising a casing having positioned centrally in its bottom an outlet opening adapted for connecting the casing in the flow line of such a lubricating system to discharge filtered oil thereto, and having an inlet opening in the side wall of the casing adapted for connecting the casing in the flow line of such a system having communication with the source of oil to be filtered, a removable filter cartridge mounted in said casing between said inlet and outlet openings, said cartridge being provided with inner and outer concentric cylindrical perforate side walls, said outer perforate side wall being spaced from the casing, and annular imperforate top and bottom walls having liquid-tight connection with said inner and outer cartridge side walls, said bottom wall having a central enlarged downwardly projecting hollow annular boss the bottom of which is set back axially inwardly of the cartridge and spaced from the plane of the bottom edge of the outer cylindrical wall, a central perforated tubular conduit fixed to the bottom wall of the casing and connected with the outlet opening thereof, said tube extending upwardly from the bottom of the casing through the cartridge whereby the perforated portion of the tube will lie in the space enclosed by the inner perforated side wall of the cartridge, a removable cover mounted on said casing to facilitate the assembly and replacement of said cartridge, means detachably securing said cover to the upper end of said tube, liquid-tight sealing means at the ends of the cartridge between said center tube and said inner perforate side wall of the cartridge, and a central upwardly open cup member around the lower end portion of said conduit fixedly secured to the bottom of the casing and extending upwardly therefrom in the casing cavity, said cup being of a size for receiving and fitting snugly over the outside of the annular boss on the bottom of the cartridge for holding the cartridge centralized in correct operating position within the casing, and spring means encircling the upper end of said center tube and acting between the cover and said upper sealing means for holding the filter cartridge securely seated in place on the cup member with the enlarged annular boss lodged within the cavity of the cup member when the cover is secured in normally closed position on the casing.

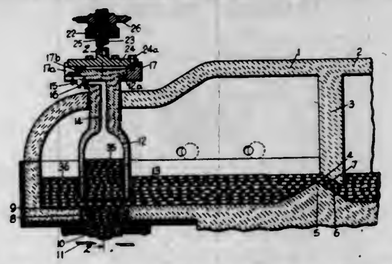
2,280,034
PROCESS FOR MAKING IMPROVED OIL WELL WEIGHTING MATERIALS
Leslie Roth Harrison, Jr., Malvern, Ark., assignor to Magnet Cove Barium Corporation, Malvern, Ark., a corporation of Arkansas
No Drawing. Application March 28, 1941, Serial No. 385,758
14 Claims. (Cl. 252—8.5)

1. The method of conditioning barite as a weighting material comprising mixing the same in a watery pulp with a wetting agent, thickening and filtering the mixture, and calcining the residue.

2,280,035
PROCESS OF MAKING IMPROVED OIL WELL WEIGHTING MATERIALS
Leslie Roth Harrison, Jr., Malvern, Ark., assignor to Magnet Cove Barium Corporation, Malvern, Ark., a corporation of Arkansas
No Drawing. Application August 28, 1941, Serial No. 408,680
15 Claims. (Cl. 252—8.5)

1. A method of conditioning barite as a weighting material comprising mixing the same with an organic wetting agent selected from the group consisting of primary, secondary, tertiary and quaternary amines, and calcining.
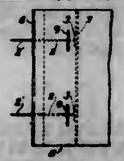
2,280,036
METHOD OF FEEDING MOLTEN GLASS
George T. Meyers, Parkersburg, W. Va., assignor to The Meyers Company, Parkersburg, W. Va., a corporation of West Virginia
Application October 16, 1939. Serial No. 299,633
2 Claims. (Cl. 49—77)



1. The method of feeding molten glass from a melting furnace to a mold or the like which comprises causing the glass to flow from the furnace into a glass feeding spout having a downwardly opening discharge orifice, maintaining a constant level of glass within the spout to cause the glass to be extruded through said orifice, controlling the flow of glass through said orifice by providing a hollow member with its open lower end immersed in the glass directly above said orifice at a preselected distance therefrom, creating and maintaining a continuous vacuum force in said hollow member which will act on the glass within and adjacent the orifice but which will be insufficient to prevent the head pressure of the glass within the spout from extruding the glass through the orifice in the form of a depending column, the said head pressure and the said vacuum force being the only forces controlling the extrusion of the glass through said orifice, shearing the

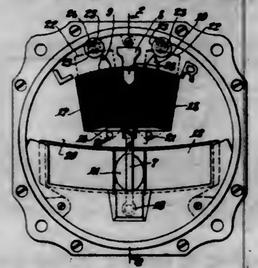
charges from said depending column of glass at intervals and thereby permitting the vacuum force to draw the glass back up into the orifice, and adjusting said hollow member vertically towards or away from said orifice to vary the sizes of the charges produced.

2,280,037
ATTACHABLE ADVERTISING DEVICE
George S. Nelson, Revere, Mass., assignor to The Forbes Lithograph Manufacturing Company, Boston, Mass., a corporation of Massachusetts
Application April 9, 1941, Serial No. 387,627
5 Claims. (Cl. 40—25)



1. An attachable advertising device carrying a protruding pin by which it is made attachable to a support, and comprising a base sheet having a part foldable to provide a housing with joints between its folds at the opposite ends of said housing, a pin contained within said housing with penetration through one of said joints to protrude therefrom and with head bearing against the other of said joints, and means binding together said assemblage of pin, folds, and base sheet and embracing said pin at a point forward of the head thereof.

2,280,038
TURN INDICATOR
Walter P. Powers, East Orange, N. J., assignor to Associated Patentees, Inc., Ampere, N. J., a corporation of New Jersey
Application October 17, 1941, Serial No. 415,355
10 Claims. (Cl. 116—129)



2. A rate of turn instrument, comprising turn sensitive mechanism, a flat grid of substantially parallel lines movable in the plane of said grid by said mechanism and oppositely inclined relatively stationary flat left and right turn grids in parallel relation to said movable grid and lined in vernier relation thereto, said movable grid having a movement to carry it into cooperative relation over said realtively stationary grids and means for varying the inclination of said left and right turn grids in respect to each other and in respect to said movable grid.

3. A rate of turn instrument, comprising turn sensitive mechanism, a flat grid of substantially parallel lines movable in the plane of said grid by said mechanism and oppositely inclined relatively stationary flat left and right turn grids in parallel relation to said movable grid and lined in vernier relation thereto, said movable grid having a movement to carry it into cooperative relation over said relatively stationary grids, said left and right turn grids having an intermediate clear field between them and a pointer element operable with said movable grid in said clear field.

2,280,039
MINERAL OIL COMPOSITION
Orland M. Reiff and Howard D. Hartough, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application February 3, 1940, Serial No. 317,122
31 Claims. (Cl. 252—51)

1. An improved mineral oil composition comprising a mineral oil having admixed therewith a minor proportion of an oil-miscible alkylated amino-aryl metal oxide.

2,280,040
PREPARATION OF NICOTINIC ACID AMIDE
Howard F. Seibert and Lester J. Szabo, Cleveland, Juro Wyeno, Chagrin Falls, and Elmer B. Eckhardt, Cleveland, Ohio, assignors, by mesne assignments, to S. M. A. Corporation, Chicago, Ill., a corporation of New Jersey
No Drawing. Application October 13, 1939, Serial No. 299,384
2 Claims. (Cl. 260—295)

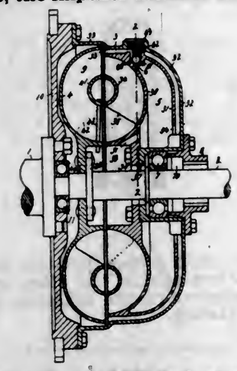
1. The process of preparing nicotinic acid amide which consists in treating nicotinic acid with alcohol and sulfuric acid, refluxing the reaction product, neutralizing to decompose the reaction product and to obtain nicotinic acid ester, extracting said ester, treating said extracted ester with ammonium hydroxide to form nicotinic acid amide and ammonium nicotinate, removing said nicotinate, dissolving said amide in alcohol and treating the amide to form an insoluble nicotinate by the use of a metal whose acetates are soluble in alcohol and whose nicotinates are insoluble in alcohol and water.

2,280,041
PRODUCTION OF FERROMANGANESE
James C. Vignos, Canton, Ohio, assignor to Ohio Ferro-Alloys Corporation, Philo, Ohio, a corporation of Ohio
No Drawing. Application November 7, 1940, Serial No. 364,665
3 Claims. (Cl. 75—131)

1. In a method of producing ferromanganese in the blast furnace from a burden comprising manganese ore, limestone, and carbon, the improvement which consists in compounding said burden to contain silica in excess of the ratio lime plus magnesia to silica equals 1.2 to 1, whereby to produce a substantially decreased amount of slag of about the same proportion of manganese as is produced when the said ratio is 1.2 to 1 or greater, charging blast furnace with said burden, and operating said furnace to produce ferromanganese containing about 60 to 80 per cent of manganese, and to reduce silica in an amount such that said ferromanganese contains more than 3 to about 12 per cent of silicon.

2,280,042
FLUID COUPLING
William A. Duffield, Windsor, Ontario, Canada, assignor, by mesne assignments, to Amador Botello, New York, N. Y.
Application August 17, 1939, Serial No. 290,563
3 Claims. (Cl. 60—54)

1. In a fluid coupling of the type specified, a drive shaft, a fly-wheel bolted thereto, a driven shaft having its end journaled in the fly-wheel, an impeller member bolted to the fly-wheel and journalled on the driven shaft, a runner member having core and vanes, bolted to a flange on the driven shaft, the impeller member comprising an



inner shell having a core and vanes, an outer shell forming a reservoir, and a by-pass passage from within the runner member and about the reservoir to its inner end, the outer end of the reservoir having a series of adjustable outlet valves opening into the by-pass passage.

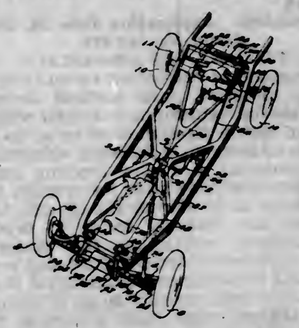
2,280,043
SELF-LOADING DEVICE FOR SHAKER CONVEYERS
Loy D. Hagenbook, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application December 24, 1940, Serial No. 371,553
35 Claims. (Cl. 198—14)



1. In a feeding device for shaker conveyers, a reciprocating trough section, an extensible trough section mounted for telescopic movement with respect to said reciprocating trough section, and means operable by the action of the conveyer for feeding said extensible trough section with respect to said reciprocating trough section including a carrier member, gripping means mounted on said carrier member and adapted to engage said extensible trough section during certain strokes of the conveyer, means selectively operable to automatically engage said gripping means with said extensible trough section, including a pair of links having pivotal connection with opposite ends of said carrier member and having slidable and pivotal connection with said reciprocating trough section, and means selectively operable to hold either of said links from slidable movement with respect to said reciprocating trough section to cause feeding movement of said extensible trough section in a forward or return direction.

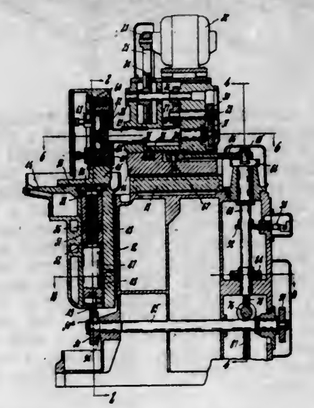
2,280,044
MOTOR VEHICLE
Joachim Kolbe, Detroit, Mich.
Application March 20, 1939, Serial No. 262,828
22 Claims. (Cl. 280—124)

1. In a vehicle having front and rear wheel supporting means, longitudinally extending connecting means between the front and rear wheel supporting means, a superstructure, front and rear connecting means comprising angularly inclined links between the wheel supporting means and superstructure whereby the superstructure may assume an angularly inclined or banked position relative to the wheel supporting means



under the influence of centrifugal force, means interconnecting the front and rear links to induce them to move in unison, and means actuated by movement of said links to control the longitudinally extending connecting means between the front and rear wheel supporting means.

2,280,045
GEAR FINISHING MACHINE
Edward W. Miller, Springfield, Vt., assignor to The Fellows Gear Shaper Company, Springfield, Vt., a corporation of Vermont
Application June 19, 1936, Serial No. 86,089
20 Claims. (Cl. 90—1.6)

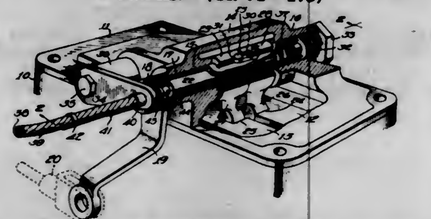


1. A machine for finishing gears by the action of a conjugate gear-like tool running in mesh therewith when the axes of said gear and tool are non-parallel and non-intersecting, comprising a reciprocatable carriage, a spindle holder on said carriage, a spindle rotatably mounted in said holder and protruding therefrom having provisions for mounting coaxially such tool or work gear, a slide mounted with capacity for moving in a path transverse to that of said carriage, and a work holder supported on said slide and adapted to support rotatably a gear element in mesh with a gear element on said spindle, said spindle holder being mounted with provision for angular adjustment on the carriage about an axis perpendicular to the axis of the spindle and to the path of reciprocation of the carriage.

2,280,046
OIL PRODUCTION
Albert Musher, New York, N. Y., assignor, by mesne assignments, to Food Manufacturing Corporation, Chicago, Ill., a corporation of New York
No Drawing. Application June 30, 1939, Serial No. 282,078
3 Claims. (Cl. 260—412.2)

1. The method of extracting an oil from an oil containing material, said method comprising providing the oil containing material with sufficient water within its structure so as to enable ice crystals to form upon freezing, subjecting the resultant material to a slow freezing condition so as to form relatively large ice crystals therein and thereby so as to disrupt the oil cells therein, dehydrating the material so as to produce a firmer structure, subjecting the material to steam at an increased temperature and pressure, suddenly and instantaneously releasing to a lower temperature and pressure so as to disrupt the structure thereof, and then removing the oil therefrom.

2,280,047
GEAR SHIFTING MECHANISM
Sulo Michael Nampa, Detroit, Mich., assignor to Automatic Shifters, Inc., Richmond, Va., a corporation of Virginia
Application January 7, 1939, Serial No. 249,806
16 Claims. (Cl. 74—473)



1. Gear shifting mechanism for a transmission having shiftable elements therein and a plurality of rockers respectively directly engaged therewith, comprising a rocking actuating member, each of said rockers having a collar rotatably surrounding said actuating member, and a selecting clutch device carried by said actuating member and movable independently thereof to connect said actuating member to either of said collars, said clutch device being movable as a unit with said actuating member whereby rocking movement of the latter will rock the selected collar and its corresponding rocker, said clutch device having a portion extending from the transmission for operation independently of said actuating member.

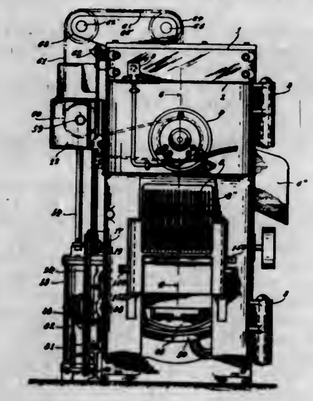
2,280,048
FLASHLIGHT LAMP
Paul Schwarze, St. Gallen, Switzerland
Application May 16, 1939, Serial No. 273,930
In Germany May 25, 1938
4 Claims. (Cl. 67—31)

3. Flashlight lamp, comprising a glass tube and a lid; substances in the tube which produce light by reaction; means adapted to hold the tube and lid together; and a yielding body disposed between said means and the rim of the



tube or lid in such a way that the tube and lid can give way one against the other in the sense of an enlargement of the reaction space when the lamp is flashed.

2,280,049
ICE CUBING MACHINE
James F. Turner and Christian P. Breidenbaugh, Baltimore, Md., assignors to Flynn & Emrich Company, Baltimore, Md., a corporation of Maryland
Application June 13, 1936, Serial No. 85,136
40 Claims. (Cl. 143—38)



37. A machine for cutting cakes of ice and the like into cubes, having scoring saws, a cut-off saw, means for reciprocating the cake and means presenting it to the scoring saws and cut-off saw, the combination of a discharge chute for the cubes below the cut-off saw and a discharge conductor for snow leading from the cut-off saw at the side of the discharge chute which carries the cubes, said side being that toward which the bottom of the saw moves in rotation.

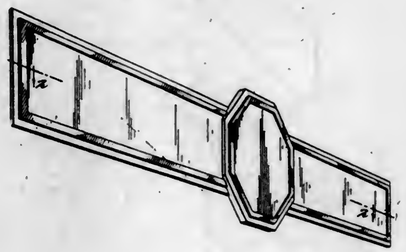
DESIGNS
APRIL 14, 1942

132,008
DESIGN FOR A TIRE
George W. Anderson, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application July 3, 1941, Serial No. 101,893
Term of patent 14 years



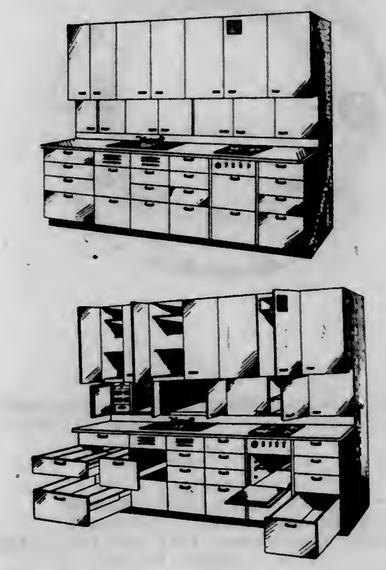
The ornamental design for a tire, substantially as shown.

132,009
DESIGN FOR AN ADVERTISING SIGN
Thomas E. Blankenship, Minneapolis, Minn., assignor to Naegele Advertising Co., Inc., Minneapolis, Minn., a corporation of Minnesota
Application July 24, 1941, Serial No. 102,451
Term of patent 3½ years



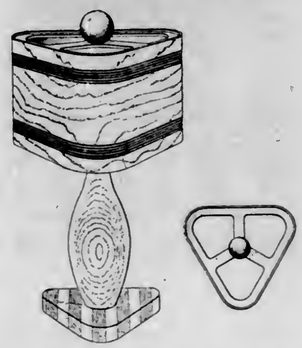
The ornamental design for an advertising sign, as shown.

132,010
DESIGN FOR A COMBINATION KITCHEN UNIT
Guyon L. C. Earle, Forest Hills, N. Y., assignor to Genevieve M. Earle, Forest Hills, N. Y.
Application April 27, 1940, Serial No. 91,998
Term of patent 7 years



The ornamental design for a combination kitchen unit substantially as shown and described.

132,011
DESIGN FOR AN ELECTRIC LAMP
William Hansen, Chicago, Ill.
Application January 19, 1942, Serial No. 105,311
Term of patent 3½ years



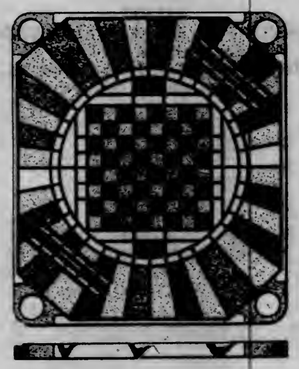
The ornamental design for an electric lamp, substantially as shown.

132,012
DESIGN FOR A PLATE OR SIMILAR ARTICLE
Donald Maddock Miller, Montclair, N. J.
Application August 8, 1941, Serial No. 102,747
Term of patent 14 years



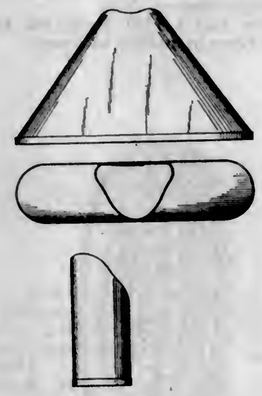
The ornamental design for a plate or similar article, as shown.

132,013
DESIGN FOR A GAME BOARD
William F. Peters, Seattle, Wash.
Application December 24, 1941, Serial No. 104,821
Term of patent 14 years



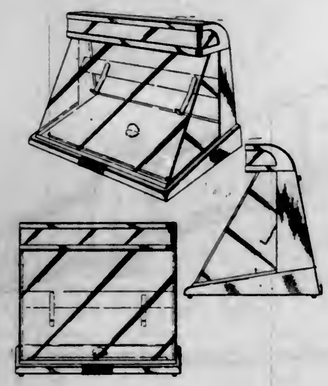
The ornamental design for a game board, as shown.

132,014
DESIGN FOR AN ADVERTISING SIGN OR THE LIKE
Ramsay G. Regester, Philadelphia, Pa., assignor to Gillco Signs, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application May 1, 1941, Serial No. 100,725
Term of patent 3½ years



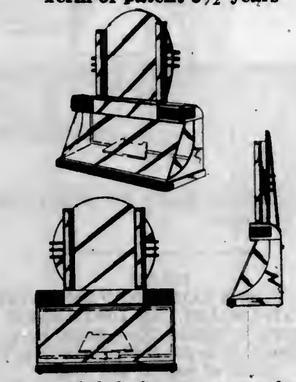
The ornamental design for an advertising sign or the like, as shown.

132,015
DESIGN FOR A MERCHANDISE DISPLAY CASE
José Trojan, Chicago, Ill., assignor to Owen Householder and David C. Cohen, copartners, doing business as Crystal Manufacturing Co., Chicago, Ill.
Application February 2, 1942, Serial No. 105,573
Term of patent 3½ years



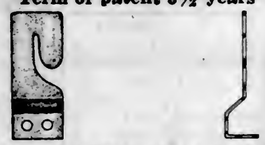
The ornamental design for a merchandise display case, substantially as shown.

132,016
DESIGN FOR A MERCHANDISE DISPLAY CASE UNIT
José Trojan, Chicago, Ill., assignor to Owen Householder and David C. Cohen, copartners, doing business as Crystal Manufacturing Co., Chicago, Ill.
Application February 2, 1942, Serial No. 105,574
Term of patent 3½ years



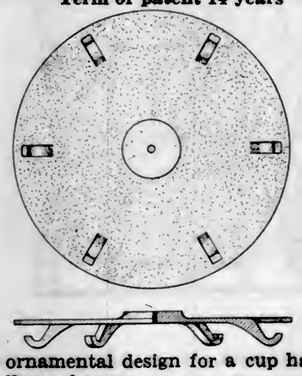
The ornamental design for a merchandise display case unit, substantially as shown.

132,017
DESIGN FOR A FASTENING DEVICE OR SIMILAR ARTICLE
Walter S. Arnstein, Queens, N. Y.
Application February 18, 1942, Serial No. 105,865
Term of patent 3½ years



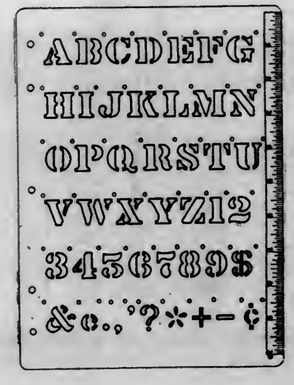
The ornamental design for a fastening device or similar article, substantially as shown.

132,018
DESIGN FOR A CUP HANGER
James P. Burke, Struthers, Ohio, assignor to James E. Cronan, Flint, Mich.
Application June 13, 1941, Serial No. 101,444
Term of patent 14 years



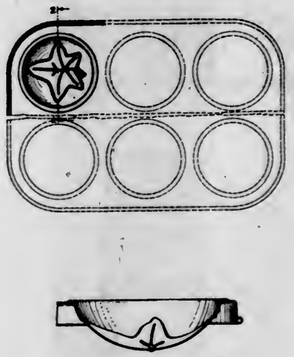
The ornamental design for a cup hanger substantially as shown.

132,019
DESIGN FOR A STENCIL LETTERING CARD
Ruth Hormats, Baltimore, Md.
Application September 17, 1940, Serial No. 95,149
Term of patent 7 years



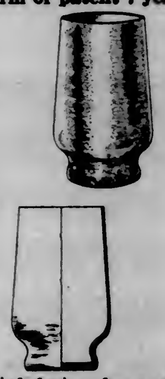
The ornamental design for a stencil lettering card, substantially as shown.

132,020
DESIGN FOR A BAKE PAN
Joseph G. Jackson, Oak Park, Ill., assignor to The Edward Katzinger Company, Chicago, Ill., a corporation of Illinois
Application June 24, 1940, Serial No. 93,212
Term of patent 7 years



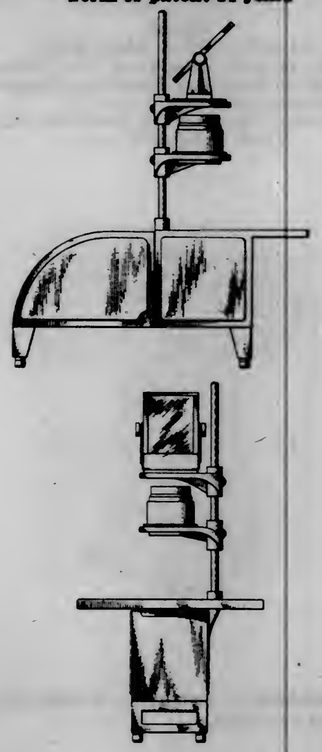
The ornamental design for a bake pan, as shown and described.

132,021
DESIGN FOR A GLASS TUMBLER OR ARTICLE OF SIMILAR NATURE
Belle Kogan, New York, N. Y., assignor to The Federal Glass Company, Columbus, Ohio, a corporation of Ohio
Application February 3, 1942, Serial No. 105,608
Term of patent 7 years

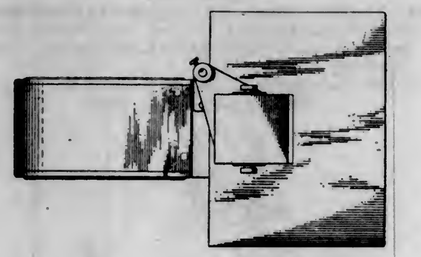


The ornamental design for a glass tumbler or article of similar nature, substantially as shown.

132,022
DESIGN FOR A PROJECTOR
Harold Osterberg and Kennard W. Harper, Buffalo, and William F. Peck, Snyder, N. Y., assignors to Spencer Lens Company, Buffalo, N. Y., a corporation of New York
Application August 27, 1940, Serial No. 94,642
Term of patent 14 years

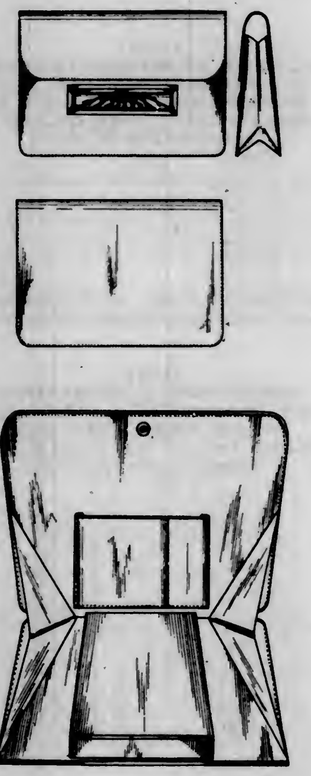


132,022—Continued



The ornamental design for a projector, substantially as shown.

132,023
DESIGN FOR A COMBINATION HANDBAG AND CIGARETTE DISPENSER
Harry A. Adams, New York, N. Y.
Application March 10, 1942, Serial No. 106,132
Term of patent 3½ years



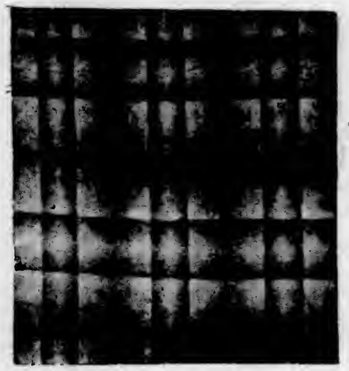
The ornamental design for a combination handbag and cigarette dispenser, substantially as shown, and described.

132,024
DESIGN FOR A TEXTILE FABRIC
John H. Abt, New York, N. Y., assignor to Deering Milliken & Co., Inc., New York, N. Y., a corporation of New York
Application March 4, 1942, Serial No. 106,075
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown.

132,025
DESIGN FOR A TEXTILE FABRIC
John H. Abt, New York, N. Y., assignor to Deering Milliken & Co., Inc., New York, N. Y., a corporation of New York
Application March 6, 1942, Serial No. 106,101
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown.

132,026
DESIGN FOR A TEXTILE FABRIC
John H. Abt, New York, N. Y., assignor to Deering Milliken & Co., Inc., New York, N. Y., a corporation of New York
Application March 10, 1942, Serial No. 106,131
Term of patent 3½ years



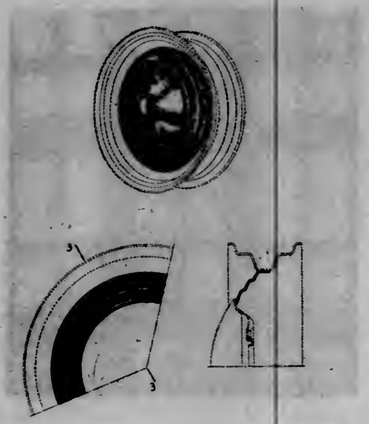
The ornamental design for a textile fabric, substantially as shown.

132,027
DESIGN FOR A TEXTILE FABRIC
Marcel Christen, New York, N. Y.
Application March 11, 1942, Serial No. 106,156
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown and described.

132,028
DESIGN FOR A VEHICLE WHEEL
Talmon A. Davenport, Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 6, 1941, Serial No. 102,661
Term of patent 14 years



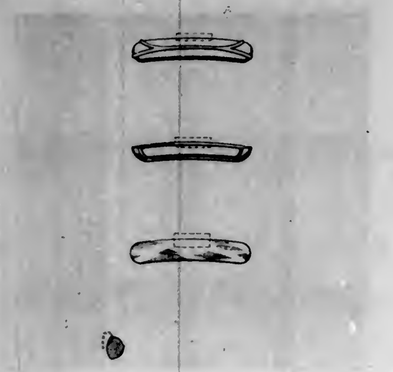
The ornamental design for a vehicle wheel, substantially as shown.

132,029
DESIGN FOR A FLAG
Charles Raymond Johnson, Pittsburgh, Pa., assignor to Gardner Displays Company, a corporation of Pennsylvania
Application January 28, 1942, Serial No. 105,470
Term of patent 7 years



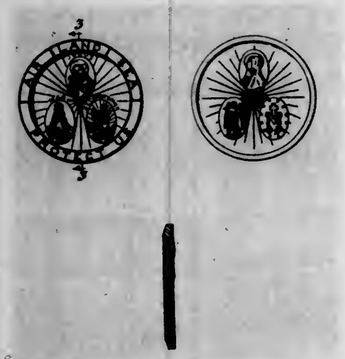
The ornamental design for a flag, as shown.

132,030
DESIGN FOR A WHEEL BALANCE WEIGHT
Harry J. Kalajian, Detroit, Mich., assignor to Harley C. Lemcy Company, Detroit, Mich., a corporation of Michigan
Application February 10, 1941, Serial No. 96,866
Term of patent 14 years



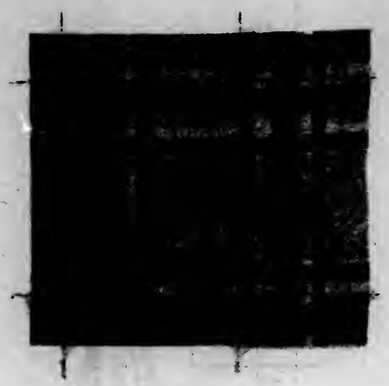
The ornamental design for a wheel balance weight as shown and described.

132,031
DESIGN FOR A MEDAL OR SIMILAR ARTICLE
Leo P. Leddy, Brooklyn, N. Y., assignor to Swift & Fisher, Inc., North Attleboro, Mass., a corporation of Massachusetts
Application February 6, 1942, Serial No. 105,674
Term of patent 14 years



The ornamental design for a medal or similar article, substantially as shown.

132,032
DESIGN FOR A WOVEN TEXTILE FABRIC
George A. Niedner, New York, N. Y.
Application March 10, 1942, Serial No. 106,137
Term of patent 3½ years



The ornamental design for a woven textile fabric, substantially as shown and described.

132,033
DESIGN FOR A WOVEN TEXTILE FABRIC
George A. Niedner, New York, N. Y.
Application March 10, 1942, Serial No. 106,138
Term of patent 3½ years



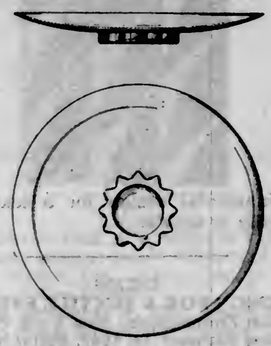
The ornamental design for a woven textile fabric, substantially as shown and described.

132,034
DESIGN FOR A WOVEN TEXTILE FABRIC
George A. Niedner, New York, N. Y.
Application March 10, 1942, Serial No. 106,139
Term of patent 3½ years



The ornamental design for a woven textile fabric, substantially as shown and described.

132,035
DESIGN FOR A CENTERPIECE
Charles W. Sawyer, Toledo, Ohio, assignor to Libbey Glass Company, Toledo, Ohio, a corporation of Ohio
Application September 25, 1941, Serial No. 103,497
Term of patent 7 years



The ornamental design for a centerpiece, substantially as shown.

132,036
DESIGN FOR A TEXTILE FABRIC
Sol Weinberg, New York, N. Y.
Application March 6, 1942, Serial No. 106,100
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown.

132,037
DESIGN FOR A BANNER OR SIMILAR ARTICLE
Archie Wilburn and Walter M. O'Neal, Grass Valley, Calif.
Application February 4, 1942, Serial No. 105,640
Term of patent 7 years



The ornamental design for a banner or similar article, as shown.

132,038
DESIGN FOR A TEXTILE FABRIC
Allan Zimmerman, New York, N. Y.
Application January 19, 1942, Serial No. 105,305
Term of patent 3½ years



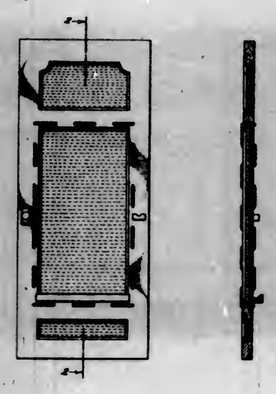
The ornamental design for a textile fabric, substantially as shown.

132,039
DESIGN FOR A TEXTILE FABRIC
Allan Zimmerman, New York, N. Y.
Application January 19, 1942, Serial No. 105,306
Term of patent 3½ years



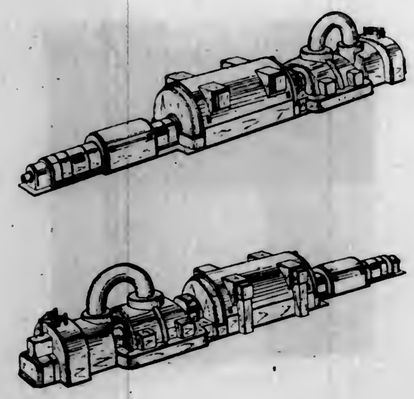
The ornamental design for a textile fabric, substantially as shown.

132,040
DESIGN FOR A DOOR OR SIMILAR ARTICLE
Margery Cummings, Beverly Hills, Calif.
Application October 27, 1941, Serial No. 103,905
Term of patent 14½ years



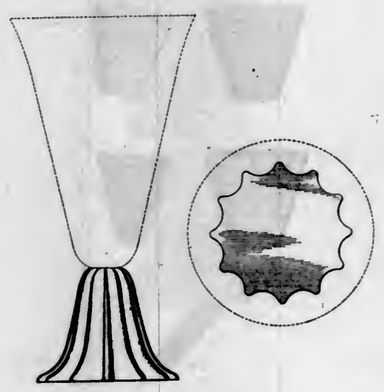
The ornamental design for a door or similar article, substantially as shown and described.

132,041
DESIGN FOR A TURBOGENERATOR UNIT
Donald L. Hadley, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application February 3, 1942, Serial No. 105,607
Term of patent 7 years



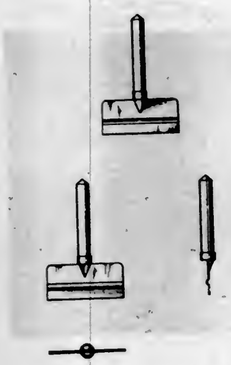
The ornamental design for a turbo-generator unit, substantially as shown.

132,042
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Charles W. Sawyer, Toledo, Ohio, assignor to Libbey Glass Company, Toledo, Ohio, a corporation of Ohio
Application September 25, 1941, Serial No. 103,492
Term of patent 7 years



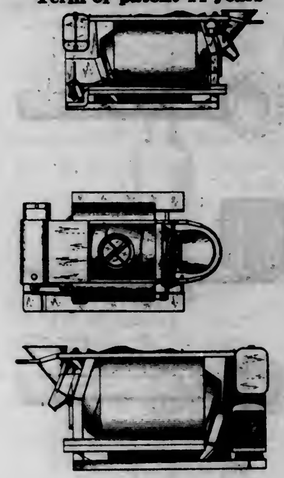
The ornamental design for a goblet or similar article, substantially as shown and described.

132,043
DESIGN FOR A SLEET SCRAPER
Martin E. Trollen, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a corporation of Minnesota
Application November 21, 1941, Serial No. 104,237
Term of patent 14 years



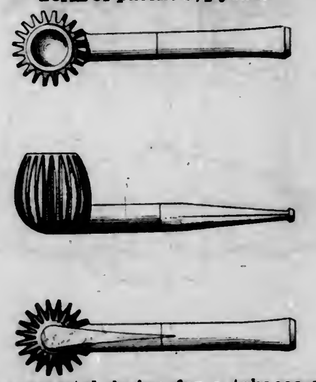
The ornamental design for a sleet scraper, as shown.

132,044
DESIGN FOR A CONCRETE MIXER
Charles F. Ball, Franklin, Pa., and Louis G. Hilkemeier, Milwaukee, Wis., assignors to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin
Application December 8, 1941, Serial No. 104,542
Term of patent 14 years



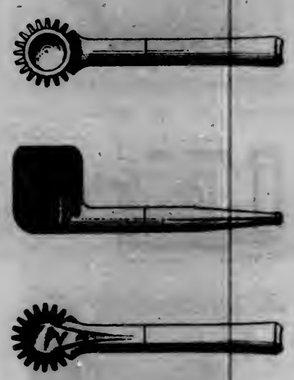
The ornamental design for a concrete mixer, as shown.

132,045
DESIGN FOR A TOBACCO PIPE
Frank Grosse Borger, Jersey City, N. J., assignor to C. B. Weber, Inc., Jersey City, N. J., a corporation of New Jersey
Application December 19, 1941, Serial No. 104,818
Term of patent 3½ years



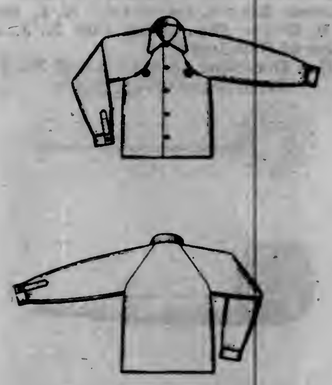
The ornamental design for a tobacco pipe, as shown.

132,046
DESIGN FOR A TOBACCO PIPE
Frank Grosse Berger, Jersey City, N. J., assignor to C. B. Weber, Inc., Jersey City, N. J., a corporation of New Jersey
Application December 19, 1941, Serial No. 104,819
Term of patent 3½ years



The ornamental design for a tobacco pipe, as shown.

132,047
DESIGN FOR A SHIRT OR SIMILAR ARTICLE
Benjamin Faverman and Emanuel T. Cherin, San Francisco, Calif.
Application January 12, 1942, Serial No. 105,149
Term of patent 7 years



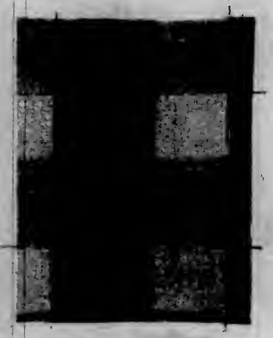
The ornamental design for a shirt or similar article, substantially as shown.

132,048
DESIGN FOR A JEWELRY CASE OR THE LIKE
Leo Flier, Springfield, Mass.
Application January 14, 1942, Serial No. 105,195
Term of patent 14 years



The ornamental design for a jewelry case or the like, substantially as shown and described.

132,049
DESIGN FOR A WOVEN TEXTILE FABRIC
George A. Niedner, New York, N. Y.
Application March 10, 1942, Serial No. 106,136
Term of patent 3½ years



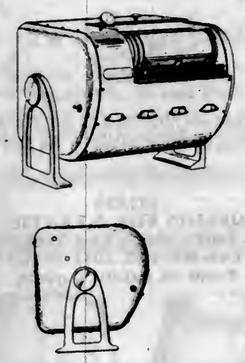
The ornamental design for a woven textile fabric, substantially as shown and described.

132,050
DESIGN FOR A SWEATER
Eric Richard Popper, New York, N. Y.
Application December 11, 1941, Serial No. 104,573
Term of patent 3½ years



The ornamental design for a sweater, substantially as shown and described.

132,051
DESIGN FOR A DUPLEX FACSIMILE MACHINE
Walter Dorwin Teague, Annandale, N. J., assignor to Finch Telecommunications, Inc., New York, N. Y., a corporation of Delaware
Application June 6, 1940, Serial No. 92,846
Term of patent 14 years



The ornamental design for a facsimile machine, as shown and described.

132,052
DESIGN FOR A BOTTLE
Charles J. Trees, Madison, Ind.
Application August 13, 1941, Serial No. 102,826
Term of patent 14 years



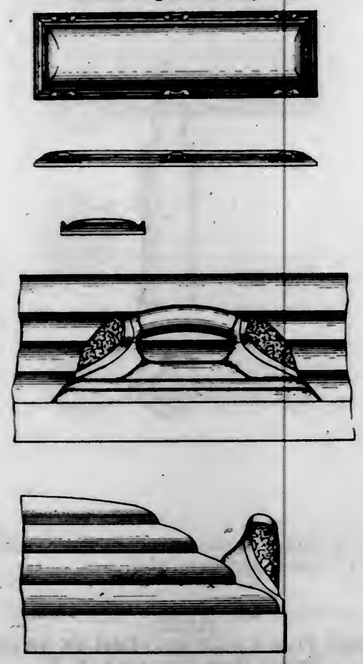
The ornamental design for a bottle, substantially as shown and described.

132,053
DESIGN FOR A SLIP OR SIMILAR ARTICLE
Semon Wolf, New York, N. Y.
Application November 10, 1941, Serial No. 104,096
Term of patent 14 years



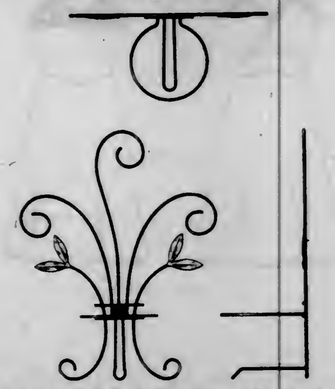
The ornamental design for a slip or similar article, substantially as shown and described.

132,054
DESIGN FOR A CONCRETE BURIAL VAULT COVER
Wilbert W. Haase, Forest Park, Ill., assignor to Wilbert W. Haase Co., Forest Park, Ill., a corporation of Illinois
Application November 20, 1940, Serial No. 96,709
Term of patent 14 years



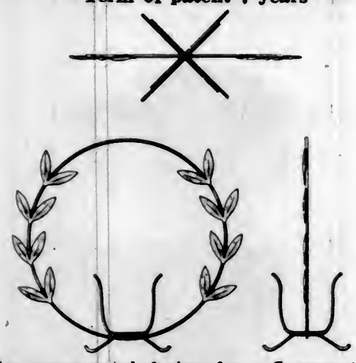
The ornamental design for a concrete burial vault cover, as shown and described.

132,055
DESIGN FOR A FLOWERPOT HOLDER OR SIMILAR ARTICLE
Paul Planeta, Linden, N. J., assignor to Anthony Planeta, Rahway, N. J.
Application March 31, 1941, Serial No. 100,034
Term of patent 7 years



The ornamental design for a flowerpot holder or similar article, as shown.

132,056
DESIGN FOR A FLOWERPOT HOLDER OR SIMILAR ARTICLE
Rudolph C. Planeta, Roselle, N. J., assignor to Anthony Planeta, Rahway, N. J.
Application March 31, 1941, Serial No. 100,035
Term of patent 7 years



The ornamental design for a flowerpot holder or similar article, as shown.

132,057
DESIGN FOR AN OILED SILK FABRIC OR SIMILAR ARTICLE
Arno Reinhold, Cleveland, Ohio
Application May 5, 1941, Serial No. 100,783
Term of patent 3½ years



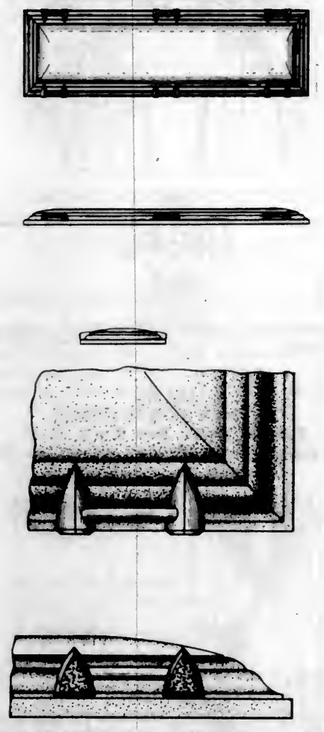
The ornamental design for an oiled silk fabric or similar article, substantially as shown and described.

132,058
DESIGN FOR A PANTIE
Julia Lufty Sarge, New York, N. Y.
Application December 31, 1941, Serial No. 104,937
Term of patent 7 years



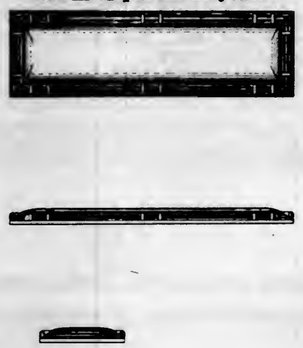
The ornamental design for a pantie, as shown and described.

132,059
DESIGN FOR A CONCRETE BURIAL VAULT COVER
Sydney L. Schultz, Oak Park, Ill., assignor to Wilbert W. Haase Co., Forest Park, Ill., a corporation of Illinois
Application November 29, 1940, Serial No. 96,955
Term of patent 14 years

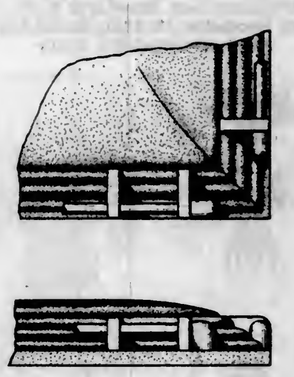


The ornamental design for a concrete burial vault cover, as shown and described.

132,060
DESIGN FOR A CONCRETE BURIAL VAULT COVER
Sydney L. Schultz, Oak Park, Ill., assignor to Wilbert W. Haase Co., Forest Park, Ill., a corporation of Illinois
Application November 29, 1940, Serial No. 96,956
Term of patent 14 years

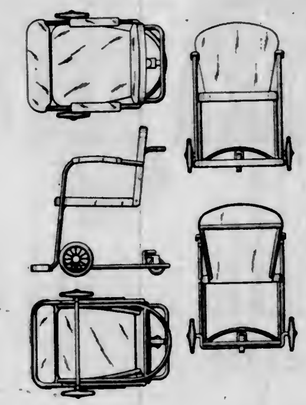


132,060—Continued



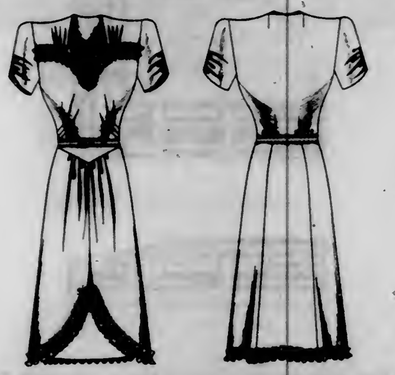
The ornamental design for a concrete burial vault cover, as shown and described.

132,061
DESIGN FOR A WHEELED CHAIR
Alvin W. Wentz and Clara N. Watkins, St. Louis, Mo.
Application December 26, 1940, Serial No. 97,618
Term of patent 14 years



The ornamental design for a wheeled chair, as shown.

132,062
DESIGN FOR A DRESS
William Clion, Brooklyn, N. Y.
Application December 18, 1941, Serial No. 104,692
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,063
DESIGN FOR A DRESS ENSEMBLE
Lillian Helms, New York, N. Y.
Application February 16, 1942, Serial No. 105,827
Term of patent 3½ years

The ornamental design for a dress ensemble, substantially as shown and described.

132,064
DESIGN FOR A DRESS
David Minchenberg, New York, N. Y.
Application February 21, 1942, Serial No. 105,929
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,065
DESIGN FOR A DRESS
Samuel Zahn, New York, N. Y.
Application March 16, 1942, Serial No. 106,202
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,066
DESIGN FOR A BRACELET
Adolph Katz, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application March 19, 1942, Serial No. 106,237
Term of patent 3½ years





The ornamental design for a bracelet, substantially as shown.

132,067
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application March 19, 1942, Serial No. 106,238
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

132,068
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application March 19, 1942, Serial No. 106,239
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

132,069
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application March 19, 1942, Serial No. 106,243
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

132,070
DESIGN FOR A JEWELRY FINDING
Adolph Katz, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application March 19, 1942, Serial No. 106,244
Term of patent 3½ years



The ornamental design for a jewelry finding, substantially as shown.

132,071
DESIGN FOR A DRESS
William Maidman, New York, N. Y.
Application February 28, 1942, Serial No. 106,040
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,072
DESIGN FOR A JEWELRY FINDING
Edgar Roedelheimer, New York, N. Y.
Application March 19, 1942, Serial No. 106,245
Term of patent 3½ years



The ornamental design for a jewelry finding, substantially as shown.

132,073
DESIGN FOR A JEWELRY FINDING
Edgar Roedelheimer, New York, N. Y.
Application March 19, 1942, Serial No. 106,246
Term of patent 3½ years



The ornamental design for a jewelry finding, substantially as shown.

132,074
DESIGN FOR A DRESS
Israel Buchholz, New York, N. Y.
Application February 28, 1942, Serial No. 106,018
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,075
DESIGN FOR A DRESS ENSEMBLE
Israel Buchholz, New York, N. Y.
Application February 28, 1942, Serial No. 106,025
Term of patent 3½ years



The ornamental design for a dress ensemble, substantially as shown.

132,076
DESIGN FOR A DRESS
Israel Buchholz, New York, N. Y.
Application February 28, 1942, Serial No. 106,026
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,077
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application March 19, 1942, Serial No. 106,236
Term of patent 3½ years



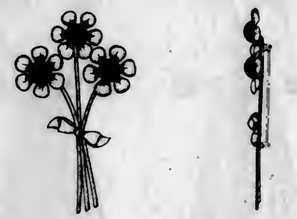
The ornamental design for a brooch or similar article, substantially as shown.

132,078
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application March 19, 1942, Serial No. 106,240
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

132,079
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application March 19, 1942, Serial No. 106,241
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

132,080
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application March 19, 1942, Serial No. 106,242
Term of patent 3½ years



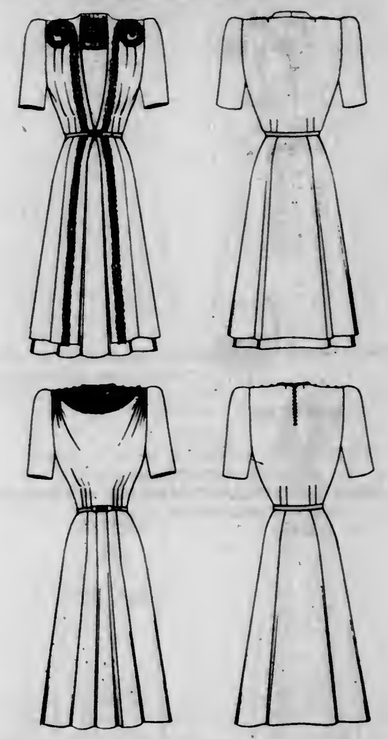
The ornamental design for a brooch or similar article, substantially as shown.

132,081
DESIGN FOR A DRESS ENSEMBLE
Betty Kessler, New York, N. Y.
Application February 28, 1942, Serial No. 106,042
Term of patent 3½ years



The ornamental design for a dress ensemble; substantially as shown.

132,082
DESIGN FOR A DRESS ENSEMBLE
Israel Buchholz, New York, N. Y.
Application February 28, 1942, Serial No. 106,019
Term of patent 3½ years



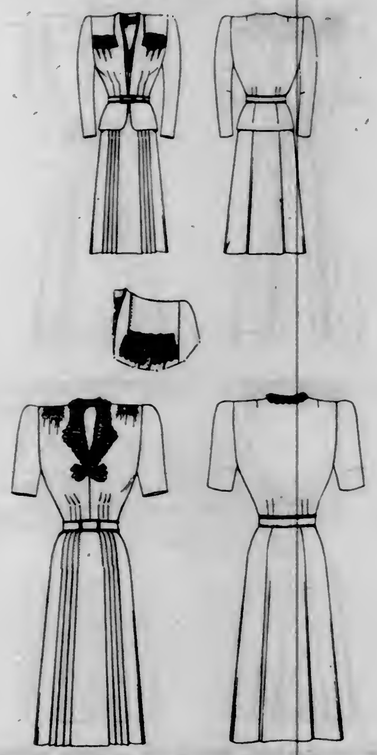
The ornamental design for a dress ensemble, substantially as shown.

132,083
DESIGN FOR A DRESS
Israel Buchholz, New York, N. Y.
Application February 28, 1942, Serial No. 106,020
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,084
DESIGN FOR A DRESS ENSEMBLE
Israel Buchholz, New York, N. Y.
Application February 28, 1942, Serial No. 106,021
Term of patent 3½ years



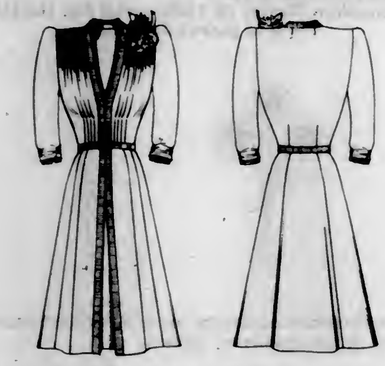
The ornamental design for a dress ensemble, substantially as shown.

132,085
DESIGN FOR A DRESS
Israel Buchholz, New York, N. Y.
Application February 28, 1942, Serial No. 106,022
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,086
DESIGN FOR A DRESS
Israel Buchholz, New York, N. Y.
Application February 28, 1942, Serial No. 106,023
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,087
DESIGN FOR A DRESS ENSEMBLE
Israel Buchholz, New York, N. Y.
Application February 28, 1942, Serial No. 106,024
Term of patent 3½ years



The ornamental design for a dress ensemble, substantially as shown.

132,088
DESIGN FOR A DRESS
Israel Buchholz, New York, N. Y.
Application February 28, 1942, Serial No. 106,027
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,089
DESIGN FOR A GLASS JEWELRY FINDING
Martin Finkel, New York, N. Y.
Application February 28, 1942, Serial No. 106,044
Term of patent 3½ years



The ornamental design for a glass jewelry finding, substantially as shown.

132,090
DESIGN FOR A DRESS ENSEMBLE
Abe Gershuny, New York, N. Y.
Application March 19, 1942, Serial No. 106,259
Term of patent 3½ years



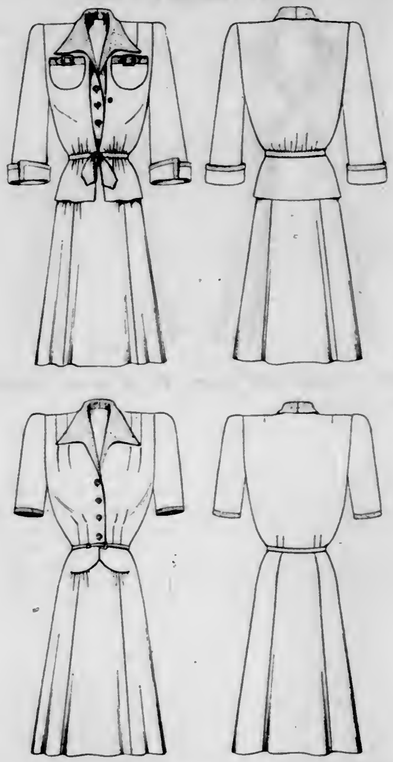
The ornamental design for a dress ensemble, substantially as shown.

132,090—Continued



The ornamental design for a dress ensemble, substantially as shown.

132,091
DESIGN FOR A DRESS ENSEMBLE
Abe Gershuny, New York, N. Y.
Application March 19, 1942, Serial No. 106,260
Term of patent 3½ years



The ornamental design for a dress ensemble, substantially as shown.

132,092
DESIGN FOR A DRESS
Margaret Hobgood, New York, N. Y.
Application March 12, 1942, Serial No. 106,181
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,093
DESIGN FOR A DRESS
Bella Kornberg, New York, N. Y.
Application March 10, 1942, Serial No. 106,134
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,094
DESIGN FOR A DRESS ENSEMBLE
Bella Kornberg, New York, N. Y.
Application March 10, 1942, Serial No. 106,135
Term of patent 3½ years



The ornamental design for a dress ensemble, substantially as shown.

132,095
DESIGN FOR A DRESS
Samuel Zahn, New York, N. Y.
Application March 14, 1942, Serial No. 106,197
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

Patents Nos. 2,280,050 to 2,280,770

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CONTENTS

	Page
ISSUE OF APRIL 21, 1942	491
DRAWINGS	491
NOTICE OF CANCELLATION	491
ADJUDICATED PATENTS	491
DISCLAIMERS	491
ORDER NO. 3617	491
APPLICATIONS UNDER EXAMINATION	492
DECISIONS OF THE U. S. COURTS—	
Exhibit Supply Company v. Ace Patents Corporation; Genco, Inc., v. Ace Patents Corporation; Chicago Coin Machine Company v. Ace Patents Corporation	493
Petty v. Giles	496
PATENT SUITS	499
TRADE-MARKS PUBLISHED (118 APPLICATIONS)	501
TRADE-MARK REGISTRATIONS GRANTED	514
TRADE-MARK REGISTRATIONS RENEWED	518
REISSUES	521
PATENTS GRANTED	523
DESIGNS	695

April 21, 1942

Trade-Marks	57	No. 394,653 to No. 394,709, inclusive.
T. M. Renewals	58	
Reissues	5	No. 22,075 to No. 22,079, inclusive.
Patents	721	No. 2,280,050 to No. 2,280,770, inclusive.
Designs	69	No. 132,096 to No. 132,164, inclusive.
Total	910	

Drawings

RULE 38

38. When there are drawings, the description will refer to the different views by figures and to the different parts by letters or numerals (preferably the latter).

RULE 52—EXTRACT

(f) The different views should be consecutively numbered. Letters and figures of reference must be carefully formed. They should, if possible, measure at least one-eighth of an inch in height, so that they may bear reduction to one twenty-fourth of an inch; and they may be much larger when there is sufficient room. They must be so placed in the closed and complex parts of drawings as not to interfere with a thorough comprehension of the same, and therefore should rarely cross or mingle with the lines. When necessarily grouped around a certain part, they should be placed at a little distance, where there is available space, and connected by short lines with the parts to which they refer and by short broken lines when the number or letters refer to parts shown in dotted lines. They should not be placed upon shaded surfaces, and when it is difficult to avoid this, a blank space must be left in the shading where the letter occurs, so that it shall appear perfectly distinct and separate from the work. If the same part of an invention appears in more than one view of the drawing it must always be represented by the same character, and the same character must never be used to designate different parts.

It is suggested that numerals or letters be used without exponents.

Notice of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., Apr. 6, 1942.*

The Interstate Wine Company, its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of California Wine Company, Incorporated, 444 West Grand Avenue, Chicago, Ill., to effect the cancellation of registration No. 225,472, issued March 22, 1927, to The Interstate Wine Company, 36 South Calvert Street, Baltimore, Md., and a notice of such proceeding sent by registered mail to said The Interstate Wine Company at said address having been returned by the post office as undeliverable, notice is hereby given that unless said The Interstate Wine Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Adjudicated Patents

(C. C. A. N. Y.) Weidhaas patent, No. 1,756,043, for stage curtain or drop, claims 1 to 18, inclusive, *Held* invalid. *Weidhaas* v. *Loew's, Inc.*, 125 F.(2d) 544.

(D. C. Conn.) Krueger reissue patent, No. 19,756, for tape serving device, *Held* invalid. *Better Packages* v. *Derby Sealers*, 43 F. Supp. 123.

Disclaimers

1,795,023.—*James Gordon*, Chicago, Ill. IRONING MACHINE. Patent dated March 3, 1931. Disclaimer filed March 25, 1942, by the inventor.

Hereby disclaims claim 9.

2,236,514.—*Robert E. Burk* and *Everett C. Hughes*, Cleveland Heights, Ohio. GEL-TYPE OXIDE CATALYST. Patent dated April 1, 1941. Disclaimer filed March 11, 1942, by the assignee, *The Standard Oil Company (Ohio)*.

Hereby disclaims from claim 5 procedure except where the drying "temperature higher than room temperature" is not below 140° F.

Order No. 3617

Effective April 10, 1942, Division 10 is hereby abolished. Classes 78, 267, 278, 293, 298 and 305 are transferred from Division 10 to Division 45. Classes 180, 280 and 296 are transferred from Division 10 to Division 47.

CONWAY P. COE,
Commissioner.

Condition of Applications Under Examination at Close of Business April 4, 1942

(Total number of applications awaiting action, excluding Trade-Mark Division, 46,970; Trade-Mark Division, 1,128. Oldest new case, June 12, 1941; oldest amended, April 28, 1941.)
(The dates given are 1941 except where † indicates 1942)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Aug. 8	July 29	720
6706	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Oct. 8	Sept. 30	692
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Dec. 2	Dec. 2	593
7083	4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating, Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	Oct. 20	Oct. 31	524
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	Oct. 8	Oct. 1	424
4908 C	6. LEWERS, A. M., Carbon Chemistry (part)	Sept. 6	Sept. 10	1116
5725	7. JARBOE, C. O., Optics; Photography	Aug. 29	Sept. 10	1089
7085	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	Aug. 12	Sept. 24	765
4524	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Oct. 7	Oct. 2	644
6612	10. HUNTER, O. P., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	July 17	July 21	939
5087 B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Dec. 4	Nov. 27	380
7701	12. SPINTMAN, SAMUEL (Act.), Machine Elements; Mechanical Starters; Stop Mechanism	Oct. 30	Oct. 2	548
509	13. BORLIK, F. J., Gear Cutting, Milling, and Planting; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Aug. 1	July 11	617
5097	14. FREEHOF, H. B. (Act.), Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	Dec. 3	Nov. 28	606
897	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Sept. 13	Sept. 12	1165
5716	16. SPENCER, C. J., Telegraphy; Telephony	Oct. 15	Oct. 15	527
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	July 21	July 15	993
4612	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Oct. 9	Oct. 8	578
4086	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Sept. 3	Sept. 10	632
6605	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	Oct. 3	Oct. 3	374
7723	21. THOMPSON, T. J., Textiles; Cloth Finishing	Nov. 18	Nov. 4	393
5600	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	June 12	June 13	1805
7624	23. BUTTNER, W. J., Registers (part)	July 16	June 6	244
3053	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Oct. 2	Sept. 30	836
5709	25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Oct. 16	Oct. 15	507
8002	26. YOUNG, E. R., Electricity, Generation; Motive Power	Oct. 29	Nov. 4	449
5705	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	Oct. 14	Aug. 5	589
4626	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	Aug. 26	Aug. 18	380
8062	29. SHILARIN, J. E., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Bearings; Package and Article Carriers; Tables.	Aug. 13	Sept. 3	606
4083	30. McCANN, L. P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Dec. 6	Dec. 16	401
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	Oct. 11	Oct. 9	1523
4096	32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Sept. 17	Oct. 1	916
6096	33. KAUFFMAN, H. E. (Act.), Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads.	Sept. 2	Sept. 2	881
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Surface Track; Track Sanders; Draft Appliances; Signals and Indicators.	Aug. 1	Oct. 31	427
3876	35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Portable Receptacles	Aug. 2	July 22	1011
7922	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Oct. 2	Oct. 9	632
5090 B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Nov. 21	Nov. 21	607
3064	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stoneworking; Wells; Plastic Compositions.	Sept. 4	Aug. 30	719
4878	39. WHITNEY, F. I., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Nov. 18	Nov. 21	520
7899	40. DRUMMOND, E. J., Metallic, Wood, Paper, and Special Receptacles	Sept. 2	Sept. 3	1534
7012	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	Oct. 13	Oct. 13	566
5952	42. CUTTING, H. O., Electric Signaling	Oct. 28	Oct. 27	452
4886 B	43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Sept. 10	Sept. 10	805
4087 B	44. HARVEY, L. P., Refrigeration	Oct. 6	Sept. 27	340
7093	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Jan. 19	Aug. 21	410
4613	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Sept. 2	Sept. 2	779
6082	47. KANOF, W. J., Clutches; Brakes	Nov. 5	Oct. 24	376
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Aug. 23	Aug. 23	812
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Sept. 22	Sept. 10	689
4701	50. LEVIN, S., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	Sept. 6	Sept. 9	1526
5628	51. BACKUS, C. D., Radiant Energy (part)	Dec. 23	Dec. 23	395
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	Dec. 8	Dec. 1	418
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Aug. 2	Apr. 28	496
5983	54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	Nov. 21	Nov. 17	448
6883	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	Nov. 22	Dec. 3	291
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Aug. 4	Aug. 5	1374
6613	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	Nov. 8	Dec. 3	281
5605	58. DOWELL, E. F., Abrading; Bottles and Jars	Nov. 24	Dec. 5	409
4709	59. SHEPPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	Aug. 9	July 26	1301
5896	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Oct. 17	Oct. 17	334
6724	61. YOUNGKWAI, B., Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	Sept. 19	Sept. 27	739
5621	62. PUGH, E. C., Games; Geometrical Instruments	Sept. 25	Aug. 25	711
4888	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	July 25	July 31	1419
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats and Glue; Liquid Coating Compositions; Fuel.	Sept. 8	Sept. 13	1654
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	Oct. 31	Nov. 29	401
3099 B	Trade Marks: F. A. RICHMOND	†Feb. 2	†Feb. 26	1125
2606	Designs: H. H. KALUPY	†Feb. 18	†Mar. 9	608

DECISIONS IN PATENT AND TRADE-MARK CASES

Supreme Court of the United States

EXHIBIT SUPPLY COMPANY *v.* ACE PATENTS CORPORATION

GENCO, INC., *v.* ACE PATENTS CORPORATION

CHICAGO COIN MACHINE COMPANY *v.* ACE PATENTS CORPORATION

Nos. 154, 155, and 156. Decided February 2, 1943

1. VALIDITY OF PATENT—NOT CONSIDERED BY COURT UNLESS QUESTIONED BY PARTIES.

Where certiorari was granted on a petition which challenged only the decree of infringement below, and the petitioners did not contend, either in their petition or in their brief and argument, that the patent is invalid, the question of validity was not considered by the Court, but consideration was confined to the question of infringement.

2. WORDS AND PHRASES—EMBEDDED.

The statement that a conductor cooperating with a spring on the table of a pin ball game is "embedded in the table" held to embrace "any conductor means solidly set or firmly fixed in the table, whether or not it protrudes above or below the surface."

3. INFRINGEMENT—DOCTRINE OF EQUIVALENTS.

"Whatever may be the appropriate scope and application of the doctrine of equivalents, where a claim is allowed without restrictive amendment, it has long been settled that recourse may not be had to that doctrine to recapture claims which the patentee has surrendered by amendment."

4. SAME—CLAIM AMENDED TO MEET OBJECTIONS IN PATENT OFFICE.

Where the applicant, in order to meet objections in the Patent Office, substituted the phrase "embedded in the table" for "carried by the table" *Held* that by this substitution the applicant "recognized and emphasized the difference between the two phrases and proclaimed his abandonment of all that is embraced in that difference."

5. SAME—SAME—CORRECTNESS OF OBJECTIONS.

Where a claim is amended to meet objections in the Patent Office *Held* that "as the question is one of construction of the claim it is immaterial whether the Examiner was right or wrong in rejecting the claim as filed."

6. INFRINGEMENT—NELSON PATENT NO. 2,109,678.

Claim 4 of Nelson Patent No. 2,109,678 *Held* infringed by certain devices and not infringed by others.

ON WRITS of certiorari to the United States Circuit Court of Appeals for the Seventh Circuit. Modified.

Mr. John H. Sutherland (*Mr. Clarence E. Threedy* with him on the brief) for Exhibit Supply Company, Genco, Inc., and Chicago Coin Machine Company.

Mr. Casper W. Ooms (*Mr. John A. Russell* with him on the brief) for Ace Patents Corporation.

Mr. Chief Justice STONE delivered the opinion of the Court.

Respondent began the present litigation as three separate suits against the respective petitioners for infringement of the Nelson Patent No. 2,109,678 of March 1, 1938, for a "contact switch for ball rolling games." The defenses were non-invention in view of the prior art, anticipation by prior publication, use and sale, non-infringement and a file wrapper estoppel. The three suits were consolidated and tried together. Upon full consideration of the issues the district court and the Circuit Court of Appeals for the Seventh Circuit held claim 4 of the patent valid and infringed. 119 F. 2d 349.

[1] We granted ceriorari, 314 U. S. —, on a petition which challenged only the decree of infringement below, on the ground that it enlarged the scope of the patent as defined by the claim, by resort to the doctrine of equivalents, and that Nelson, the patentee, by the amendment of his claims in the Patent Office, had surrendered claim 4 so far as it would otherwise read upon the alleged infringing devices. Neither in their petition nor in their brief and argument in this Court have petitioners contended that the patent is invalid for want of invention. Although there is no conflict of decision, we were moved to grant the petition by the nature of the questions presented, together with a showing that the industry affected by the patent is located in the seventh circuit so that litigation in other circuits resulting in a conflict of decision would not be likely to occur.

The patent relates to the structure of a resilient switch or circuit closer, so disposed on the board of a game table as to serve as a target which, when struck by a freely rolling ball, will momentarily close an electrical circuit. Specifications and drawings disclose a target or switch comprising a conductor standard mounted in the table and carrying a coil spring having a leg pendantly disposed in a conductor ring located in the table and slightly offset from the standard. The standard and ring are wired in a circuit with a relay coil and a source of electrical energy. When a ball rolling on the table bumps the coil spring from any direction, the leg of the spring is deflected momentarily bringing it into contact with the ring, so as to close the circuit for operating the relay coil and any connected auxiliary game device. Any desired number of targets may be placed on the board in a suitably spaced relationship; in pin ball games a single ball may successively bump and close a number of the switch devices. In describing his invention the patentee declared it to be his intention

"to cover all changes and modifications of the example of the invention herein chosen for purposes of the disclosure, which do not constitute departures from the spirit and scope of the invention."

The prior art as disclosed by the record shows no device in which the coil spring serves both as a target and a switch. The advantages of the device are said to be that the combination is peculiarly adapted to use in pin ball games; that the coil spring structure is so organized as to form both a switch for operating auxiliary recording or signalling devices and a target which is accessible from any direction.

Claim 4[1] claims as the elements of the invention the conductor standard anchored in the table, the coil spring surrounding the standard which carries the spring pendantly from its top, with the spring spaced from the standard to enable the spring to be resiliently flexed,

"and conductor means in said circuit and embedded in the table at a point spaced from the standard and engageable by a portion of the spring when it is flexed to close the aforementioned circuit."

The drawings of the patent show the "conductor means" last mentioned in the form of a ring or ferrule set in the table with its axis at right angles to the table and with its flange projecting slightly above the surface of the table. The leg pending from the coil spring is so disposed at the center of the annular ferrule that a ball striking the spring in any direction will bring the pendant leg into contact with the ring so as to close the circuit.

The six devices alleged to infringe the patent differ from the particular claim of the invention described in the specifications, only in the specific form and method of supporting the "conductor means" which is "engageable by a portion of the spring when it is flexed". In two of the accused devices, plaintiff's Exhibits 5 and 7, there is substituted for the ring conductor set in the table a nail or pin driven into the table and surrounded near its upper end by a ring attached to the end of the resilient coil spring, or formed there of the coil wire. When the spring is struck the circuit is closed by the contact of ring and nail at a point above the table. This arrangement contrasts with that of the conductors as shown in the patent drawings, in which a ring set in the table and the pendant leg of the coil form the contact at a point near or below the surface of the table. In the one case the ring conductor is supported by the table and the complementary conductor is attached to or is formed of the wire of the spring at its end. In the other the locations of the ring and of the complementary conductor are reversed.

Two others of the accused devices, plaintiff's Exhibits 6 and 10, show a further alteration. In Exhibit 6, the nail or pin, instead of being driven directly into the table, is affixed to and supported by a metal plate resting on the upper surface of the table with the coil spring standard passing through it and holding it firmly on the table. The conductor extends to the wire connection through a hole in the table underneath the plate. In Exhibit 10 the conductor is insulated from the plate, which is rigidly anchored to the coil spring standard, which in turn is anchored to the table.

In the remaining two accused devices, plaintiff's Exhibits 8 and 9, an insulating core or sleeve surrounds the coil standard and supports an annular or enveloping conductor wired in the circuit, spaced and insulated from the coil standard so that the circuit is closed by contact of the conductor and the coil when it is flexed. In Exhibit 8 the sleeve is electrically connected with a metal plate, held in position on the top of the table by the standard which passes through the plate. A wire leading from the plate passes through a hole in the table underneath the plate. In Exhibit 9 the annular conductor is located above the table top and a wire leading from it passes through a hole in the table.

Comparison of the several accused devices shows that in all but Exhibits 5 and 7 the conductor means complementary to the coil spring is not embedded in the table, but is supported by an insulated plate resting on the table or an insulating core held in position by the standard. In Exhibits 6 and 10 the conductor means passes to its wire connection through a hole in the table underneath the plate. In Exhibit 8 the connecting wire passes through a hole in the table to a metal plate resting on its surface, and in Exhibit 9 to the conductor means located above the surface of the table.

Petitioners insist that respondent is estopped to assert infringement by the file wrapper record in the Patent Office and in any event that estoppel can be avoided and infringement established only by resort to the doctrine of equivalents, which they assert is incompatible with the statutory requirements for the grant of a patent and with the doctrine that the patent claims measure the patented invention.

The file wrapper history, so far as now relevant, relates to claim 7 which, after amendment, was allowed as claim 4 now in issue. The original claim 7 with its amendments is set forth as follows:

[Matter added by amendment in parenthesis; matter stricken in italics and underscored.]

(4) 7. In a ball rolling game having a substantially horizontal table over which balls are rollable,
the combination with said table of a substantially vertical standard anchored in said table with its lower
end carrying on the underside of the table a lead for an
A[1] electric circuit and its upper end extending a substantial distance above the top surface of the table, a
coil spring surrounding the standard, means carrying
said spring pendantly from the upper portion of the
per C standard (ABOVE THE TABLE) with the coils of the spring spaced from the
" " standard *and the lower end of the coil spring terminating*
" " *at a distance above the top surface of the table* to
enable the spring to be resiliently flexed when bumped
by a ball rolling on the table, said spring being in the
aforementioned circuit and constituting a conductor, and
per B *other* conductor means (IN SAID CIRCUIT AND EMBEDDED IN) *carried by* the table at a point
spaced from the standard and engageable by a portion of
the spring when it is flexed to close the aforementioned
circuit.

The original application contained six claims, all of which the Examiner rejected because he thought

[1] "4. In a ball rolling game having a substantially horizontal table over which balls are rollable, the combination with said table of a substantially vertical standard anchored in said table with its lower end carrying on the underside of the table a lead for an electric circuit and its upper end extending a substantial distance above the top surface of the table, a coil spring surrounding the standard, means carrying said spring pendantly from the upper portion of the standard above the table with the coils of the spring spaced from the standard to enable the spring to be resiliently flexed when bumped by a ball rolling on the table, said spring being in the aforementioned circuit and constituting a conductor, and conductor means in said circuit and embedded in the table at a point spaced from the standard and engageable by a portion of the spring when it is flexed to close the aforementioned circuit."

no patentable significance had been shown. The inventor submitted certain amendments, and two new claims, 7 and 8, and induced the Examiner to reconsider the patentability of the invention. Four of the claims were then allowed, but the Examiner rejected claim 7 as failing to claim the invention. He said:

"It is old in the art to make an electrical contact by flexing a coil spring as shown by the art already cited in the case. In order to distinguish over the references therefor, the applicant's particular type of contact structure, comprising an extension to the coil spring adapted to engage an annular contact embedded in the table, must appear in the claims. . . ."

Applicant rejected the Examiner's suggestion that the "contact structure" be adapted to engage "an annular contact embedded in the table".

Instead he cancelled "other" from the claim and substituted for "carried by" the phrase,
"in said circuit and embedded in",

saying claim 7 has been
"significantly amended" "to define the complementary conductor contact as being embedded in the table".

He added that
"it is too far to go to state that the specific leg 19 must be defined",

and
"the allowed claims can it seems, be very simply avoided by taking the leg 19, separating it from the spring 18 and embedding it as a pin in the table so that the spring when flexed would contact the pin. . . . Claim 7 covers such alternative form and . . . in justice to applicant . . . should be allowed."

The Examiner in reply recognized as "true" applicant's suggestion that if the leg pendant from the spring
"were removed from the spring and embedded in the table an operative device would result",
but pointed out that the device claimed by the amendment
"would be inoperative as the coil spring could not both terminate at a distance above the table and extend into a ferrule embedded therein."

Thereupon the applicant added to the claim the words "above the table" and cancelled the phrase, "and the lower end of the coil spring terminating at a distance above the top surface of the table." The claim as amended was then allowed as claim 4.

The claim before amendment plainly read on plaintiff's Exhibits 5 and 7 in which the nail or pin conductor is driven into the table, since the nail or pin is a "conductor means carried by the table" "engageable by a portion of the spring when flexed" The claim thus read is for an operative device since the nail or pin projects above the table and may be engaged by the coil spring similarly located. The claim, as amended and allowed as claim 4, likewise reads on plaintiff's Exhibits 5 and 7 if the nail or pin conductor which is driven into the table is "embedded in the table".

Petitioners do not seriously assert here that it is not so embedded. In fact their brief expressly states that "we pass this contention". They could not well do otherwise, for the pin or nail even though it protrudes above or below the table not only conforms to the dictionary definition of "embed", "To set solidly as in a bed", Webster; "To fix firmly in a surrounding mass of some solid material", Oxford Dictionary, but examination of the drawings and specifications indicates clearly enough that the claim was not intended to be limited to a complementary conductor located wholly between the upper and nether surfaces of the table. The specifications and drawings express no such limitation, and it is clear that the use of the word "embedded" in the claim as finally amended, when read in its context of claim and specifications, does not indicate such a limitation.

The patent drawings show the embedded ring conductor extending slightly both above and below the table. The Examiner in his second rejection of claim 7, in saying that if the leg pendant from the spring were removed from the spring and "embedded" in the table an operative device would result, could not have referred to the embedded leg or nail as being wholly located below the surface of the table, since the pin so disposed would not be "engageable" "by a portion of the spring when it is flexed" by a ball rolling in any direction. The term is to be read as used in a permissible sense which would conform to the drawings and the function which the conductor to which the term was applied was obviously intended to perform.

[2] We think that the word "embedded" as applied in claim 4, must be taken to embrace any conductor means solidly set or firmly fixed in the table, whether or not it protrudes above or below the surface. Claim 7 before amendment read on the accused devices, plaintiff's Exhibits 5 and 7, which exhibit the nail or pin embedded in the table but protruding above its surface. Consequently the patentee by amending the claim so as to define the conductor means as embedded in the table did not exclude from the amended claim devices exemplified by these exhibits and they must be deemed to be infringements.

There remains the question whether respondent may rely upon the doctrine of equivalents to establish infringement by the four other accused devices. Respondent concedes that the conductor means in the four devices are not literally "embedded in the table", but insists that the changes in structure which they exhibit over that of plaintiff's Exhibits 5 and 7 are but the mechanical equivalents of the "conductor means embedded in the table" called for by the amended claim, and so are entitled to the protection afforded by the doctrine of equivalents. Petitioners do not seriously urge that the conductor means in the four accused devices are not mechanical equivalents of the conductor means embedded in the table which the patent claims. Instead they argue that the doctrine should be discarded because it does not satisfy the demands of the statute that the patent shall describe the invention. R. S. § 4888; 35 U. S. C. § 33.

[3] We do not find it necessary to resolve these contentions here. Whatever may be the appropriate scope and application of the doctrine of equivalents, where a claim is allowed without a restrictive amendment, it has long been settled that recourse may not be had to that doctrine to recapture claims which the patentee has surrendered by amendment.

[4] [5] Assuming that the patentee would have

been entitled to equivalents embracing the accused devices had he originally claimed a "conductor means embedded in the table", a very different issue is presented when the applicant in order to meet objections in the Patent Office, based on references to the prior art, adopted the phrase as a substitute for the broader one "carried by the table". Had claim 7 been allowed in its original form it would have read upon all the accused devices since in all the conductor means complementary to the coil spring are "carried by the table". By striking that phrase from the claim and substituting for it "embedded in the table" the applicant restricted his claim to those combinations in which the conductor means, though carried on the table, is also embedded in it. By the amendment he recognized and emphasized the difference between the two phrases and proclaimed his abandonment of all that is embraced in that difference. *Hubbell* v. *United States*, 179 U. S. 77, 83, 93 O. G. 1124; *Weber Electric Co.* v. *Freeman Electric Co.*, 256 U. S. 668, 677-78, 288 O. G. 631; *I. T. S. Rubber Co.* v. *Essex Rubber Co*, 272 U. S. 429, 440, 444, 359 O. G. 737; *Smith* v. *Magic City Kennel Club*, 282 U. S. 784, 789, 404 O. G. 1045; *Schriber Co.* v. *Cleveland Trust Co.*, 311 U. S. 211; cf. in case of disclaimer *Altoona Theatres* v. *Tri-Ergon Corp.*, 294 U. S. 477, 492, 493, 452 O. G. 705. The difference which he thus disclaimed must be regarded as material, and since the amendment operates as a disclaimer of that difference it must be strictly construed against him. *Smith* v. *Magic City Kennel Club*, supra, 790; *Shepard* v. *Carrigan*, 116 U. S. 593, 598, 34 O. G. 1157; *Goodyear Dental Vulcanite Co.* v. *Davis*, 102 U. S. 222, 228, 19 O. G. 543. As the question is one of construction of the claim it is immaterial whether the Examiner was right or wrong in rejecting the claim as filed. *Hubbell* v. *United States*, supra, 83; *I. T. S. Rubber Co.* v. *Essex Rubber Co.*, supra, 443. It follows that what the patentee, by a strict construction of the claim, has disclaimed—conductors which are carried by the table but not embedded in it—cannot now be regained by recourse to the doctrine of equivalents, which at most operates, by liberal construction, to secure to the inventor the full benefits, not disclaimed, of the claims allowed.

Plaintiff's Exhibits 5 and 7 do, and its Exhibits 6, 8, 9, and 10 do not, infringe. The judgments will be modified accordingly.

So ordered.

Mr. Justice ROBERTS took no part in the consideration or decision of this case.

A true copy.

Test:

Clerk, Supreme Court, U. S.

Mr. Justice BLACK, dissenting, with whom Mr. Justice DOUGLAS concurs:

I think the judgments below should be reversed in full.

There can be no infringement of a void patent, and a patent which shows neither invention nor discovery is void.[1] The mere application of an old mechanical instrument to a new use is not an invention and therefore not patentable.[2]

The combination patented here contains not a single new element. The whole device is nothing more than an electric switch mounted on a table, which closes and opens with the flexing and reflexing of an ordinary coil spring when hit by a rolling ball. The spring, standing upright on the table, serves as a target in a pin ball game, its resiliency being utilized not only to make and break the circuit but to make the ball rebound.

The Constitution authorizes the granting of patent privileges only to inventors who make "discoveries." And the statute provides for the granting of patents only to those who have "invented or discovered" something "new." To call the device here an invention or discovery such as was contemplated by the Constitution or the statute is, in my judgment, to degrade the meaning of those terms.

Patentees have rights given them by law.

"But the public has rights also. The rights of both should be upheld and enforced by an equally firm hand, whenever they come under judicial consideration."[3]

By failing to assign error on the issue of patentability, parties to an infringement suit should not be permitted to foreclose a court from protecting the public interest. And here, as in other cases where there is plain error, we should notice it.[4]

[1] *Dunbar* v. *Myers*, 94 U. S. 187, 11 O. G. 35; *Thompson* v. *Boisselier*, 114 U. S. 1, 31 O. G. 377; *Saranac Mach. Co.* v. *Wirebounds Co.*, 282 U. S. 704, 405 O. G. 277.
[2] *Phillips* v. *Page*, 24 How. 164; *Paramount Corp.* v. *Tri-Ergon Corp.*, 294 U. S. 464, 452 O. G. 701.
[3] *Densmore* v. *Scofield*, 102 U. S. 375, 378, 19 O. G. 289.
[4] *Sibbach* v. *Wilson & Co.*, 312 U. S. 1, 16.

U. S. Court of Customs and Patent Appeals

PETTY
v.
GILES

Nos. 4,541, 4,542, and 4,543. Decided February 2, 1942

[125 F.(2d) 177]

1. INTERFERENCE—CONCEPTION—SIGNING OF APPLICATION.
Where record showed that party P signed his application on August 13, 1941, and his opponent, G, waived the question of P's right to make the counts, assumption made that P conceived the invention defined by the counts on or before August 13, 1931.

2. SAME—SAME—EVIDENCE OF.
Where, according to the stipulated testimony of one D, progress reports prepared by the party G and dated from February 3 to August 4, 1931, were mailed "on or about the dates indicated," to one W, the superior of D and the party G; and where the attorney who prepared and filed the application of the party G stated that he read said reports shortly after they were received by said W, *Held* that the dates of said reports are sufficiently established as prior to the date of August 13, 1931, to which the opposing party P was entitled for conception.

3. SAME—SAME—SAME.
Where one D testified that he mailed the reports of the party G to their superior W "on or about the dates indicated," *Held* that the quoted phrase should be interpreted to mean on or about the dates indicated on the reports.

4. SAME—PRIORITY.
Record reviewed and *Held* that the junior party G was the first to conceive and was diligent during the critical period and that priority properly was awarded to him.

APPEAL from Patent Office. Affirmed.

Mr. Thomas E. Scofield for Petty.

Mr. Donald E. Payne (*Mr. Edward B. Beale* of counsel) for Giles.

BLAND, *J.*:

These three appeals are from decisions of the Board of Appeals of the United States Patent Office in which priority of invention was awarded to Roy N. Giles in three interferences involving, generally, the separation of wax from lubricating oil by the use of normally gaseous hydrocarbon diluents such as propane and butane. The three appeals are presented to us in a single record and we will dispose of the issues raised thereby in a single opinion.

There are three counts involved, one in each interference. They follow:

Interference No. 68,617

The process of separating hydrocarbon lubricating oil and wax occurring naturally therewith which comprises *heating said oil-wax mixture with a normally gaseous, hydrocarbon refrigerant to an elevated temperature sufficient to effect complete solution of both wax and oil*, effecting the major portion of the refrigeration necessary to precipitate the wax by evaporation of a portion of the hydrocarbon refrigerant thereby precipitating said wax, separating said precipitated wax, and recovering dewaxed lubricating oil from the remaining mixture. [Italics ours.]

Interference No. 68,846

The process of separating wax from oil which comprises mixing with an oil-wax mixture a liquefied normally gaseous hydrocarbon, *maintaining the mixture at elevated temperature and at an elevated pressure sufficient to effect complete solution of both wax and oil in the liquefied hydrocarbon*, cooling the mixture to effect solidification of wax in separable form from the solution of oil in liquefied normally gaseous hydrocarbon, retaining at least a portion of the liquefied normally gaseous hydrocarbon in the oil to serve as a diluent therefor, and separating the solidified wax from the diluted oil. [Italics ours.]

Interference No. 73,160

The method of removing wax from a wax-bearing oil which comprises *heating said wax-bearing oil with a normally gaseous hydrocarbon to an elevated temperature sufficient to effect complete solution of both oil and wax therein*, refrigerating the solution to cause crystallization of the wax from the diluted oil in filterable form, mechanically separating said wax from said diluted oil, and separating the remaining diluent from the diluted oil. [Italics ours.]

As may be seen from a reading of the above-quoted counts, the process involved relates to the separation of wax from oil by mixing a normally gaseous hydrocarbon diluent (such as propane or butane) with the oil, heating the mixture or maintaining it at an initial high temperature, cooling the mixture and separating the wax from the oil. We have italicized in said counts certain limitations which were of importance below, but not here, since it is not contended by anyone that there is sufficient difference in the inventions defined by the three counts to permit of a split decision, that is to say, upon the instant record one or other of the involved litigants are entitled to all the counts.

Earl Petty, the appellant, is the senior party having filed his application, Serial No. 557,826, on August 18, 1931. Roy N. Giles is the junior party, having filed his application, Serial No. 560,361, on August 31, 1931. The application of Giles matured into Patent No. 1,943,236 on January 9, 1934.

Petty copied claims 10, 14, and 15 (corresponding to the three counts here involved) of the Giles patent for purposes of interference and the three interferences involved in these appeals were declared.

Both parties took testimony at some length.

It may here be said that during the prosecution of these interferences in the Patent Office other parties were involved in two of them, but have now been eliminated so that Giles and Petty are the only parties concerned.

The Examiner of Interferences and the Board of Appeals wrote separate opinions in all three interferences but stated in full the reasons for their holdings in their opinions in interference Number 73,160.

The Examiner of Interferences reviewed the record for Giles and held that he failed to establish any inventive acts prior to his filing date, August 31, 1931. The Examiner of Interferences considered Petty's record but also restricted him to his filing date, August 18, 1931, and therefore awarded priority of invention to him.

Upon appeal, the Board of Appeals agreed with the Examiner of Interferences that Petty

"had not carried his date of invention back of his record date and that he must be restricted thereto for inventive acts."

It disagreed with the Examiner, however, as to the Giles proof and concluded that

"• • • Giles has proved by a preponderance of evidence that he conceived the invention prior to the filing date of Petty, August 18, 1931,"

and was diligent

"during the critical period."

We have carefully examined Petty's proof which consists of the testimony of himself and nine other witnesses, and drawings, notebooks, and other documentary evidence, and agree with the concurring views of the tribunals below that Petty has proved no date of invention earlier than his filing date, except in the particular to which we shall hereinafter refer.

In view of the Board's conclusion that Giles had proved by a preponderance of the evidence that he had a conception of the invention prior to Petty's filing date, which conclusion resulted in awarding priority to Giles, it is necessary for us to briefly set out a few of the important elements of Giles' proof.

Early in 1931 Giles was engaged in research for the Standard Oil Company of Indiana at its Casper, Wyoming, laboratory. He was working on the problem of dewaxing oils. Many exhibits and notebook entries were introduced in evidence which need not be discussed here. It is sufficient to say that the tribunals below have not held that any of the documentary proof of itself established either conception or reduction to practice of the invention involved. The record, however, shows that S. H. Diggs, Giles' immediate superior, forwarded to Dr. R. E. Wilson, director of research for the company, who had offices at Chicago, Illinois, what are now known as Giles' Exhibits D to H, which were reports relating to Giles' experiments. Wilson did not testify and no excuse is offered for his failure to do so. The record, however, by way of stipulation, discloses that the said Giles' Exhibits D to H were sent by

Dr. Wilson to Donald E. Payne, a patent attorney for the Standard Oil Company of Indiana; that he read the reports shortly after they were received by Dr. Wilson and proceeded to prepare the application for the Giles patent, and that Giles signed the application on the 18th day of August 1931, the filing date of Petty.

The Board held that Giles had established that he had a conception of the involved invention prior to the filing date of Petty and that on August 18 Giles was diligent when he signed his application. Evidently the Board regarded August 18 as the date when Petty entered the field. By this process of reasoning the Board arrived at the conclusion that priority should be awarded to Giles. We quote the following from the decision of the Board of Appeals:

> It appears to us that Giles is not dependent entirely on Wilson for proof that the reports, Exhibits D to H, were received by him. It is noted that Donald E. Payne, a patent attorney, stated that he read the formal reports, Giles Exhibits D to H, shortly after they were received by Dr. Wilson and prepared and filed Giles' application, Serial No. 560,361, which resulted in the Patent No. 1,943,236, involved in this interference. Payne's testimony indicates that Dr. Wilson must have received these reports before Payne prepared and filed Giles' application on August 31, 1931.
>
> In his brief on reconsideration, Giles points out that the papers in his file wrapper show that his application and oath were signed in Casper, Wyoming, on August 18, 1931, the date on which Petty's application was filed. This indicates that Payne prepared the application of Giles after he read these reports, Exhibits D to H, and sent the application to Casper, Wyo., where Giles signed it and executed the oath on the day Petty filed, showing diligence at or before the time Petty entered the field. Since this application was forwarded from Casper, Wyo., and filed in the Patent Office within thirteen days after its signing, it is considered that Giles was diligent during the critical period. Taking all of the circumstances together, it is believed Giles has proved by a preponderance of evidence that he conceived the invention prior to the filing date of Petty, August 18, 1931.

The record shows that Petty signed his application on August 13, 1931. The Board apparently gave no consideration to this fact, although it concluded that the date when Giles signed his application was important.

[1] Giles has contended vigorously, until the time of argument in this court, that Petty could not make the counts by reason of lack of disclosure. In this court Giles waives the question of the right of Petty to make the counts and he also concedes that if he has not proved conception prior to the 13th of August 1931, he is not entitled to an award of priority. We, therefore, must assume that when Petty signed his application on August 13, he, at some time, either on August 13 or prior thereto, had a conception of the involved invention. Otherwise, the invention would be that of his patent attorney and not his. His diligence is not questioned. It must necessarily follow that Giles, to win, must affirmatively show a conception and a reduction to practice prior to August 13, 1931, or show a conception prior to August 13, 1931, and diligence from immediately prior to that date to the filing of his application.

While Petty denies that the record shows that Giles had any conception of the invention prior to his filing date, it is not convincingly urged that the progress reports, Giles Exhibits D to H, inclusive, do not disclose the invention at bar. The Examiner of Interferences held that the documentary evidence had not been sufficiently proved as to time and, therefore, did not establish conception by Giles prior to his filing date. The Board held that the Giles proof did not show a reduction to practice prior to the filing of his application. Under the circumstances, we think that the holding of the Examiner of Interferences that the documentary evidence did not establish conception by Giles was based upon the conclusion that the dates of such reports had not been sufficiently established.

We have examined the documentary exhibits with a view of determining whether or not they disclose the invention at bar and are of the opinion that they do. Certainly this fact has not been convincingly traversed by anyone in the case.

The dates appearing on Giles Exhibits D to H, inclusive, and J are as follows:

D—February 3, 1931
E—March 16, 1931
F—May 16, 1931
G—June 13, 1931
H—July 8, 1931
J—August 4, 1931

If these dates are proved, it must be found that Giles had a conception of the invention prior to any date which Petty can be awarded on the instant record.

By stipulation, the testimony of Sterling H. Diggs, a chemist in the employ of the Standard Oil Company and stationed at Casper, Wyoming, was placed in the record and the material portion of it is as follows:

> Also, Giles' work in the first half of 1931 was done in our research laboratory in a room adjacent my office and I witnessed the major part of it personally. I know Dr. Giles' handwriting and I identify Giles Exhibit "B" as his notebook in which he made original entries. I identify Giles Exhibit "C" as true copies of the Weekly Reports which were submitted to me by Giles throughout the progress of this work. I identify Giles Exhibits "D" to "H" as progress reports which were prepared by Dr. Giles under my supervision and which were mailed by me personally to Dr. R. E. Wilson *on or about the dates indicated*. I personally wrote the letter marked Giles Exhibit "I" on the date indicated. I recognize the blue print marked Giles Exhibit "J" as the drawing which he prepared in his own handwriting *on or about the date indicated*. [Italics ours.]
>
> I checked Dr. Giles' results carefully before submitting the formal Progress Reports. These Progress Reports truly reflect his work. I identify sheet 3 of Exhibit "K" as a photostat of one of Giles' original notebooks and recognize the handwriting as that of Roy N. Giles.

It will be noticed that Diggs stated that the reports "D" to "H" (which disclosed the invention) were prepared by Dr. Giles under Diggs' supervision and were by Diggs mailed to Dr. Wilson on or about the dates indicated, and that the blueprint, Giles Exhibit "J," which is a drawing of the apparatus for carrying out the process, was prepared in Giles' own handwriting on or about the date indicated. It would seem to be the view of the Examiner of Interferences that "on or about the date indicated" on the reports was not sufficiently definite to fix the time so as to entitle Giles to this date for conception. The Board, as we understand its decision, holds that Giles was not dependent upon Wilson for proof that the reports "D" to "H" were received by him and calls attention to the fact that the patent attorney, Donald E. Payne, stated that he had read the formal reports, Giles Exhibits "D" to "H" shortly after they were received by Wilson and prepared and filed Giles' application, and that this proves that Wilson received the reports before Payne prepared and filed the application on August 31, 1931. The Board, therefore, does not discuss or make any holding with reference to the lack of definite proof as to the dates of the exhibits in controversy.

[2] [3] We think the dates of Exhibits "D" to "H" and "J" are sufficiently established by the circumstances related by the Board, together with the positive testimony of Diggs that he mailed to Dr. Wilson, Dr. Giles' reports "on or about the dates indicated," the latter phrase we interpret to mean "on or about the dates indicated on the documents." Payne, the patent lawyer, stated that he read the formal reports, Giles exhibits "D" to "H" "shortly after they were received by Dr. R. E. Wilson and prepared and filed the Giles application."

The term "on or about" is, in Black's Law Dictionary, 3rd Edition, defined as follows:

> ON OR ABOUT. A phrase used in reciting the date of an occurrence or conveyance, or the location of it to escape the necessity of being bound by the statement of an exact date, or place; approximately; about; without substantial variance from; near. * * *

"On or about" the dates indicated on the documents would, under any reasonable interpretation of the term, identify the date of mailing the reports at some time prior to any date to which appellant is entitled. Unquestionably, there was no lack of diligence on the part of Giles during the critical period.

[4] We, therefore, hold that the junior party, Giles, has proved that he was the prior inventor of the subject matter of the counts at bar and that the decision of the Board of Appeals, in awarding priority to the party Giles in each of the three interferences here involved, should be and the same is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,325,665, 1,325,667, A. G. Crawford, Refrigerant and process of making same; 1,439,728, same, Refrigerating process, D. C., S. D. Ill. (Springfield), Doc. 74, *Trojan Development Co.* v. *Shell Oil Co., Inc.* Dismissed with prejudice Jan. 8, 1942.

1,325,667. (See 1,325,665.)

1,420,309, L. P. Mooers, Piston for internal combustion motors; 1,763,523, F. Jardine, Piston; 1,815,733, E. J. Gulick, same, D. C., E. D. Mich. (Detroit), Doc. 5564, *The Cleveland Trust Co.* v. *Ray Day Piston Corp. of Detroit.* Dismissed without prejudice (notice Jan. 23, 1942).

1,439,728. (See 1,325,665.)

1,459,411, G. F. Myers, Vehicle, filed Sept. 3, 1936, D. C., S. D. N. Y., Doc. E 83/339, *Myers Aeronautical Corp.* v. *North American Aviation Co.* Final order (notice Dec. 23, 1941). (To correct error in 534 O. G., p. 506, formerly published as 1,459,441.)

1,524,518, J. O. Johnson, Snow plow; 1,746,947, same, Snow plow and hitch; 1,754,322, same, Snow plow with top discharge; Re. 19,754, Snow plow with side chutes, D. C. Minn., 4th Div., Doc. 321, *Rotary Snow Plow Co. et al.* v. *William Bros. Boiler & Mfg. Co. et al.* Dismissed (notice Jan. 23, 1942).

1,530,981, O. C. Ceccarini, System of space discharge device; 1,799,189, D. F. Whiting, Energizing electron tubes; 1,936,162, R. A. Heising, Transmission system; 2,086,595, S. E. Anderson, Electric wave translating system, filed Jan. 29, 1942, D. C., S. D. N. Y., Doc. 17/206, *Western Electric Co., Inc.*, v. *Radio Wire Television, Inc. of N. Y.*

1,576,727, A. J. Deniston, Jr., Fastening device for sheet metal; 1,953,592, same, Combined fastening and sealing device; 2,077,784, E. D. Tripp, Process of manufacturing nails; 1,984,180, W. C. Dickson, Weatherproof nails, D. C., N. D. Ill., E. Div., Doc. 2452, *A. J. Deniston, Jr.*, v. *Dickson Weatherproof Nail Co.* Consent judgment holding Patents 1,576,727 and 2,077,784 valid but not infringed, Patent 1,953,592 held valid and infringed, Patent 1,984,180 held valid and enjoined except in accordance with settlement agreement Dec. 17, 1941.

1,647,710, 1,647,711, H. E. Nichols, Portable electrocardiograph; 1,888,139, same, Interference eliminator for electrocardiographs, C. C. A., 1st Cir., Doc. 3696, *H. E. Nichols et al.* v. *Sanborn Co.* Judgment of district court affirmed (notice Jan. 29, 1942).

1,647,711. (See 1,647,710.)

1,712,382, 2,097,023, Driggs & Faber, Fire-arm; 1,712,383, same, Fixed ammunition for fire-arms; 1,947,834, same, Flare signal; 1,970,501, L. L. Driggs, Jr., Firearm; 2,124,876, 2,074,683 same, Flare, C. C. A., 4th Cir., Doc. 4814, *Triumph Explosives, Inc., et al.* v. *The Kilgore Mfg. Co. et al.* Decree modified and affirmed by district court Jan. 5, 1942.

1,712,383. (See 1,712,382.) 1,746,947. (See 1,524,518.)

1,754,322. (See 1,524,518.) 1,763,523. (See 1,402,309.)

1,790,611. (See 1,871,099.) 1,799,189. (See 1,530,981.)

1,811,524. (See 1,871,099.) 1,815,733. (See 1,420,309.)

1,840,012, O. Behimer, Apparatus for making gasoline; 1,883,850, same, Process for making gasoline, D. C., W. D. Okla. (Oklahoma City), Doc. E 1939, *The Texas Co.* v. *Champlin Refining Co.* Doc. E 1954, *The Texas Co.* v. *Omar Refining Co.* Dismissed by stipulation without prejudice Dec. 22, 1941, in both of above cases.

1,845,697, E. K. Baker, Tie rod construction; Re. 19,482, same, Tie rod end connection, D. C., E. D. Mich. (Detroit), Doc. 8403, *E. K. Baker* v. *Economy Automotive Supply Co.* Stipulation and order of dismissal (notice Jan. 19, 1942).

1,864,078, Luther & Heuck, Products of latex character and a process for producing same; 1,911,672, Bock & Tschunkur, Artificial rubber; 1,935,733, same, Process for the manufacture of synthetic rubber; 1,938,730, same, Rubber-like masses containing styrol polymerizates; 1,938,731, same, Rubber-like masses containing styrene polymerizates; 1,973,000, Konrad & Tschunkur, Rubber-like masses from butadiene hydrocarbons and polymerizable nitriles, D. C., N. D. Ohio, E. Div., Doc. 20988, *Jasco, Inc.*, v. *Hycar Chemical Co. et al.* Dismissed Jan. 23, 1942.

1,871,099, M. Vitoux, Needle-holding handle; 1,790,611, same, Knitting needle; 1,811,524, same, Needle for repairing knitted article, filed Dec. 26, 1941, D. C., S. D. N. Y., Doc. 17/47, *American Vitos Co., Inc.*, v. *Alka Mfg. & Sales Corp. et al.*

1,883,850. (See 1,840,012.) 1,888,139. (See 1,647,710.)

1,907,453, W. A. Steinbart, Method of and machine for making steel wool, D. C., S. D. Ohio, E. Div., Doc. E 1242, *International Steel Wool Corp.* v. *The Williams Co.* Claims 17, 23, 29, and 34 held invalid, bill and counterclaim dismissed Jan. 10, 1942.

1,911,672. (See 1,864,078.)

1,917,261, P. E. Hawkinson, Method of retreading tire casings; 1,917,262, same, Apparatus for retreading tire casings; 2,034,618, same, Tire retreading apparatus, D. C., S. D. Calif. (Los Angeles), Doc. E 1019–J, *P. E. Hawkinson Co.* v. *Ti-Recapping Co.* Decree pursuant to mandate confirming dismissal as to 1,917,261; affirming claims 1 and 3 of 2,034,618; and claims 6 and 8 of 1,917,261 held void for lack of invention; complaint dismissed as to all patents and injunction vacated Oct. 10, 1941.

1,917,262. (See 1,917,261.) 1,935,733. (See 1,864,078.)

1,936,162. (See 1,530,981.) 1,938,730. (See 1,864,078.)

1,938,731. (See 1,864,078.)

1,940,406, J. E. Ericson, Paper drinking cup; 2,206,838, W. J. Emerson, Dispensing; Des. 118,578, same, Paper cup dispenser, appeal filed Jan. 5, 1942, C. C. A., 4th Cir., Doc. 4902, *Connecticut Paper Products, Inc.*, v. *New York Paper Co.*

1,947,834. (See 1,712,382.) 1,953,592. (See 1,576,727.)

1,970,501. (See 1,712,382.) 1,973,000. (See 1,864,078.)

1,984,180. (See 1,576,727.)

1,988,056, F. W. Storck, Method and apparatus for duplicating printed matter; Re. 19,951, same, Apparatus for duplicating imprinted matter, appeal filed May 12, 1941, C. C. A., 1st Cir., Doc. 3680–3681, *Standard Molding Machines Co. et al.* v. *Ditto, Inc., et al.* Decree vacated, and case remanded to district court for entry of consent decree Dec. 29, 1941.

2,018,963. (See 2,087,795.) 2,034,618. (See 1,917,261.)

2,074,683. (See 1,712,382.) 2,077,784. (See 1,576,727.)

2,086,595. (See 1,530,981.)

2,087,795, L. W. Chubb, Vehicle lighting system; Re. 21,904, E. H. Land, Laminated light polariser; 2,018,963, same, Photographic apparatus and method of photography, filed Jan. 3, 1942, D. C., S. D. N. Y., Doc. 17/86, *Polaroid Corp.* v. *John-Bayles Co.*

2,097,023. (See 1,712,382.) 2,123,858. (See 2,094,041.)

2,124,876. (See 1,712,382.)

2,127,918, 2,227,934, G. P. Hofmann, Container for pharmaceutical purposes, filed Jan. 19, 1942, D. C., S. D. N. Y., Doc. 17/160, *G. P. Hofmann* v. *F. W. Woolworth Co.*

2,152,093, W. Rubinstein, Collar; 2,204,152, same, Collar, cuff and the like, filed Jan. 24, 1942, D. C., E. D. Mo. (St. Louis), Doc. 1785, *The Goodall Co.* v. *B. S. Rubinstein et al.*

2,152,197. (See Des. 107,878.)

2,157,580, Voit & Voit, Process of making a reinforced ball; 2,221,533, Voit & Weimer, Athletic ball; 2,221,534, same, Making athletic balls, D. C., S. D. Calif. (Los Angeles), Doc. 1376–RJ, *W. J. Voit et al.* v. *Clark Bros. et al.* Dismissed without prejudice Jan. 21, 1942.

2,182,065, O. Y. Warren, Container; 2,200,813, same, Portable carrier, D. C., S. D. N. Y., Doc. 10/75, *O. Y. Warren* v. *Federal Carton Corp. et al.* Consent judgment (notice Jan. 17, 1941).

2,200,813. (See 2,182,065.) 2,204,152. (See 2,152,093.)

2,206,838. (See 1,940,406.) 2,221,533. (See 2,157,580.)

2,221,534. (See 2,157,580.) 2,227,934. (See 2,127,918.)

2,232,395, L. A. Koch, Jr., Automobile exhaust shroud, filed Dec. 19, 1941, D. C., W. D. Ky., Doc. 390, *L. A. Koch* v. *Sears-Roebuck & Co.*

Re. 19,482. (See 1,845,697.)

Re. 19,754. (See 1,524,518.)

Re. 19,951. (See 1,988,056.)

Re. 21,904. (See 2,087,795.)

Des. 107,878, J. Levy, Adjustable ceiling lighting fixture; 2,152,197, same, Lighting fixture construction, D. C., S. D. N. Y., Doc. 14/246, *Display Stage Lighting Co., Inc.*, v. *Century Lighting, Inc.* Stipulation of discontinuance (notice Jan. 27, 1942).

Des. 118,578. (See 1,940,406.)

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 21, 1942

[VOL. 537. No. 3]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 451,075. DOMINION MINERALS, INCORPORATED, Washington, D. C. Filed Feb. 19, 1942.

ALNAK

FOR APLITE.
Claims use since July 1, 1941.

Ser. No. 451,083. LOCKPORT COTTON BATTING CO., Lockport, N. Y. Filed Feb. 19, 1942.

PURCOT

FOR COTTON BATTING OR COTTON BATTS.
Claims use since Aug. 14, 1939.

Ser. No. 451,084. LOCKPORT COTTON BATTING CO., Lockport, N. Y. Filed Feb. 19, 1942.

SNODRIFT

FOR COTTON BATTING OR COTTON BATTS.
Claims use since July 1, 1921.

Ser. No. 451,087. OLD BEN COAL CORPORATION, Chicago, Ill. Filed Feb. 19, 1942.

PERFEX

FOR COAL.
Claims use since Jan. 18, 1942.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 446,712. CHAS. W. YOUNG & CO., Philadelphia, Pa. Filed Aug. 30, 1941.



The picture of a woman is fanciful. No claim is made to the words "Soap Flakes" apart from the mark.

FOR SOAP PACKED IN HOUSEHOLD SIZE PACKAGES.
Claims use since July 24, 1941.

CLASS 5

ADHESIVES

Ser. No. 450,354. CHAMPION MFG. CO., Charlotte, N. C. Filed Jan. 21, 1942.



FOR PADDING CEMENT.
Claims use since Dec. 1, 1941.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 436,143. REVLON PRODUCTS CORPORATION, New York, N. Y. Filed Sept. 19, 1940.

SCARLET SLIPPER

The word "Scarlet" is disclaimed apart from the mark.
FOR ENAMEL ADAPTED FOR COATING FINGER NAILS, AND LIPSTICKS.
Claims use since Aug. 12, 1940.

Ser. No. 441,541. IRRESISTIBLE, INC., Jersey City, N. J. Filed Mar. 14, 1941.

FRAGRANT SHOWERS

Applicant disclaims the word "Fragrant" apart from the mark.
FOR PERFUME.
Claims use since Feb. 20, 1941.

Ser. No. 443,060. JOSEPH UDDO, doing business as Johnson Chemical Co., Brooklyn, N. Y. Filed Apr. 28, 1941.



Applicant disclaims the word "Pine" apart from the mark.
FOR DISINFECTANT.
Claims use since Feb. 25, 1941.

Ser. No. 445,685. COMMERCIAL SOLVENTS CORPORATION, New York, N. Y. Filed July 28, 1941.



AJAX

FOR RADIATOR PREPARATIONS—NAMELY, ANTI-LEAK COMPOUNDS, ANTI-RUST COMPOUNDS, FLUSHING COMPOUNDS.
Claims use since June 13, 1941.

Ser. No. 447,718. THE ARMAND COMPANY, Des Moines, Iowa. Filed Oct. 13, 1941.

POWDER BAR

No claim is made to the term "Powder" apart from the mark.
FOR PACKAGE CONTAINING MINIATURE SAMPLES OF VARIOUS SHADES OF FACE POWDER.
Claims use since Sept. 22, 1941.

Ser. No. 449,212. PARFUMS MASSENET, INC., New York, N. Y. Filed Dec. 5, 1941.

ALTESSE de MASSENET

FOR PERFUMES.
Claims use since Oct. 8, 1941.

Ser. No. 449,523. ROCH D. KAWERK, doing business as Rox Products Company, Birmingham, Ala. Filed Dec. 16, 1941.

ROX ROX-SALVE

The word "Salve" is disclaimed apart from the mark.
FOR SALVE USEFUL IN THE TREATMENT OF HEAD AND CHEST COLDS, NASAL CONGESTION, AND AS AN ANTISEPTIC DRESSING FOR MINOR CUTS OR INSECT BITES.
Claims use since Nov. 29, 1941.

Ser. No. 449,733. DRUG GUILD, INC., New York, N. Y. Filed Dec. 24, 1941.

MICROCIDE

FOR PREPARATION FOR THE TREATMENT OF ATHLETE'S FOOT.
Claims use since Mar. 1, 1936.

Ser. No. 450,424. PARFUMS CHARBERT, INC., New York, N. Y. Filed Jan. 23, 1942.

"MITT-ME"

FOR COSMETIC MITTENS CONTAINING BATH, TALCUM, FACE, AND DUSTING POWDERS.
Claims use since Nov. 15, 1941.

Ser. No. 450,436. S. C. WELLS & COMPANY, Leroy, N. Y. Filed Jan. 23, 1942.

C-K-TEA

The word "Tea" is disclaimed apart from the mark.
FOR LAXATIVE.
Claims use since Oct. 23, 1941.

Ser. No. 450,771. LEO JACK RAMPEL, doing business as Perm-Aseptic Co., New York, N. Y. Filed Feb. 5, 1942.
Applicant disclaims the word "Aseptic" apart from the mark.

PERM-ASEPTIC

FOR ANTISEPTIC, GERMICIDAL, AND FUNGICIDAL PREPARATION FOR USE ON TEXTILES, PLASTIC MATERIALS, LEATHER, RUBBER, AND PAPER.
Claims use since Nov. 3, 1941.

Ser. No. 450,786. CHICAGO PHARMACAL COMPANY, Chicago, Ill. Filed Feb. 6, 1942.

Phenitol

FOR PHARMACEUTICAL OINTMENT FOR LOCAL APPLICATION IN THE TREATMENT OF BACTERIAL INFECTION OF THE SKIN AND ALSO FOR TINEA INFECTION OF THE SKIN.
Claims use since Jan. 22, 1935.

Ser. No. 450,971. LEHN & FINK PRODUCTS CORPORATION, Bloomfield, N. J. Filed Feb. 14, 1942.

CRIMSON GLORY

Applicant disclaims the word "Crimson" per se.
FOR LIPSTICK, ROUGE, NAIL POLISH, AND FACE POWDER.
Claims use since Jan. 20, 1942, for lipstick, rouge, and face powder; and since Jan. 27, 1942, for nail polish.

Ser. No. 451,019. REICHARD-COULSTON, INC., New York, N. Y. Filed Feb. 16, 1942.

IROX

FOR OXIDES OF IRON HAVING A GENERAL USE IN THE INDUSTRIAL ARTS.
Claims use since May, 1935.

Ser. No. 451,091. SHARPLES CHEMICALS INC., Philadelphia, Pa. Filed Feb. 19, 1942.

BURAMINE

FOR SYNTHETIC ORGANIC CHEMICALS WHICH ARE ALKYLATED ACID AMIDES AND SUBSTANCES DERIVED THEREFROM.
Claims use since Mar. 9, 1940.

Ser. No. 451,103. CENTRAL CHEMICAL CORPORATION OF MARYLAND, Hagerstown, Md. Filed Feb. 20, 1942.

ROSUL

FOR CHEMICALS AND INSECTICIDES FOR SPRAYING AND DUSTING PURPOSES.
Claims use since Nov. 17, 1941.

Ser. No. 451,142. CHARLES E. MAHER, doing business as Style Cemar Co., Chicago, Ill. Filed Feb. 21, 1942.

CEMAR

FOR DYE REMOVING MATERIALS, DYEING MATERIALS, AND FABRIC FINISHING MATERIALS.
Claims use since Oct. 13, 1939.

Ser. No. 451,159. BEAUTY COUNSELORS, INC., Grosse Pointe, Mich. Filed Feb. 23, 1942.

Jiff-on

FOR LIQUID PREPARATION ADAPTED FOR USE ON THE LEGS TO CREATE THE EFFECT OF SILK STOCKINGS.
Claims use since Jan. 15, 1942.

Ser. No. 451,178. NYAL COMPANY, Detroit, Mich. Filed Feb. 23, 1942.

APPLE-A-DAY

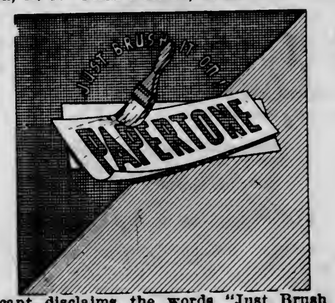
FOR VITAMIN PREPARATION.
Claims use since Feb. 5, 1942.

Ser. No. 451,187. G. N. COUGHLAN CO., Orange, N. J. Filed Feb. 24, 1942.

CHIMNEY SWEEP

FOR CHEMICAL POWDER USED AS A FIRE SCALE AND SOOT ERADICATOR.
Claims use since Aug. 7, 1941.

Ser. No. 451,226. THE MARTIN DENNIS COMPANY, Newark, N. J. Filed Feb. 26, 1942.



Applicant disclaims the words "Just Brush It On" apart from the mark.
FOR LIQUID CHEMICAL PREPARATION USED AS A COATING FOR PRESERVING PAPER SUCH AS PAMPHLETS, NEWSPAPERS, CLIPPINGS, ILLUSTRATIONS, ETC.
Claims use since Oct. 4, 1941.

Ser. No. 451,503. REVLON PRODUCTS CORPORATION, New York, N. Y. Filed Mar. 9, 1942.

1943

FOR ENAMEL ADAPTED FOR COATING FINGER NAILS, AND LIPSTICKS.
Claims use since Feb. 11, 1942.

Ser. No. 451,552. THE LAKESIDE LABORATORIES, INC., Milwaukee, Wis. Filed Mar. 11, 1942.

Lakeside

FOR VARIOUS DRUGS AND PHARMACEUTICALS FOR HUMAN USE, SUCH PRODUCTS BEING IN THE FORM OF THE USUAL PREPARATIONS FOR ORAL OR PARENTERAL ADMINISTRATION, AS COATED OR UNCOATED TABLETS OR PILLS, FILLED HARD OR SOFT CAPSULES, STERILE AMPOULE SOLUTIONS, STERILE SOLUTIONS OR SUSPENSIONS IN VIALS, STERILE POWDERS IN AMPULES, SPRAYS, AND SUCH PRODUCTS BEING INTENDED FOR THE FOLLOWING MEDICINAL PURPOSES—ALTERATIVES, ANALGESICS AND ANODYNES, ANTANEMICS, AND HEMATINICS, ANTICOAGULANTS, ANTIGONORRHEICS, ANTIMALARIALS, ANTIPYRETICS, ANTIRHEUMATICS, ANTISPASMODICS, ANTISYPHILITICS, AUTONOMIC STIMULANTS, PREPARATIONS FOR CALCIUM THERAPY, CARDIOVASCULAR STIMULANTS, CHOLAGOGUES, CORONARY DILATORS, DIURETICS, ECBOLICS, AND OXYTOCICS, PREPARATIONS FOR TREATMENT OF ECZEMA AND DERMATITIS, HORMONE AND GLAND PREPARATIONS, LEUCOCYTE STIMULANTS, MYDRIATICS, SEDATIVES, STIMULANTS, GENERAL TONICS, VARICOSE VEIN OBLITERANTS, VASO-CONSTRICTORS, VASO DILATORS, VITAMIN PREPARATIONS.
Claims use since Oct. 21, 1924.

CLASS 10

FERTILIZERS

Ser. No. 448,347. SUTTON & SONS LIMITED, Reading, England. Filed Nov. 1, 1941.

SIMPLEX

FOR FERTILIZERS.
Claims use since 1926.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 437,656. JOHNS-MANVILLE CORPORATION, New York, N. Y. Filed Nov. 7, 1940.

DURACOTTA

FOR ASBESTOS-CEMENT SHINGLES SOLD IN CARTONS, BUNDLES, PACKAGES, OR THE LIKE.
Claims use since Aug. 30, 1940.

Ser. No. 438,825. JAMES RIVER HYDRATE & SUPPLY COMPANY, Indian Rock and Buchanan, Va. Filed Dec. 13, 1940.

STONEWALL



The portrait is that of the confederate general Thomas Jonathan Jackson.
FOR HYDRAULIC AND WATER-PROOFED MASONRY MORTAR AND COMPOSITION OR ADMIXTURE FOR INCORPORATION WITH CONCRETE MIX OR THE LIKE.
Claims use since June 1, 1939.

Ser. No. 444,104. TEXLITE, INCORPORATED, Dallas, Tex. Filed May 31, 1941.

TEXLITE

FOR PORCELAIN COATED METAL SHEETS.
Claims use since July 1, 1931.

Ser. No. 444,105. TEXLITE, INCORPORATED, Dallas, Tex. Filed May 31, 1941.



The drawing is lined for red.
FOR PORCELAIN COATED METAL SHEETS.
Claims use since July 1, 1931.

Ser. No. 450,146. POTOMAC ENGINEERING SERVICE COMPANY, Chicago, Ill. Filed Jan. 10, 1942.

TRAINASIUM

FOR PHYSICAL TRAINING STRUCTURES.
Claims use since Nov. 10, 1941.

Ser. No. 450,163. DAVID E. KENNEDY, INC., Brooklyn, N. Y. Filed Jan. 12, 1942.

KENTILE Asphalt Tile



The words "Asphalt Tile" and the representation of the goods are disclaimed apart from the mark.
FOR FLOOR TILES.
Claims use since Sept. 15, 1941.

CLASS 15

OILS AND GREASES

Ser. No. 434,718. GULF OIL CORPORATION, Pittsburgh, Pa. Filed Aug. 6, 1940.

RINGFLEX

FOR LUBRICATING OILS.
Claims use since May 27, 1940.

Ser. No. 435,499. GULF OIL CORPORATION, Pittsburgh, Pa. Filed Aug. 29, 1940.

GULFLEX

FOR LUBRICANTS—NAMELY, LUBRICATING OILS AND GREASES.
Claims use since Mar. 15, 1939.

Ser. No. 448,513. LUBRICATION ENGINEERING CORPORATION, Newark, N. J. Filed Nov. 10, 1941.

EXCELUBE

FOR LUBRICATING OILS AND LUBRICATING GREASES.
Claims use since Aug. 1, 1941.

Ser. No. 449,045. FREEDOM OIL COMPANY, Freedom, Pa. Filed Nov. 29, 1941.

BULL DOG

FOR LUBRICATING OILS AND GREASES.
Claims use since Sept. 21, 1936.

Ser. No. 450,528. AIR REDUCTION SALES COMPANY, New York, N. Y. Filed Jan. 28, 1942.

AIRCO

FOR STOPCOCK LUBRICANT.
Claims use since December, 1928.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 441,041. BENJAMIN ELECTRIC MFG. COMPANY, Des Plaines, Ill. Filed Feb. 27, 1941.

Sealed-Flo

FOR ELECTRIC LIGHTING FIXTURES.
Claims use since May, 1940.

Ser. No. 441,042. BENJAMIN ELECTRIC MFG. COMPANY, Des Plaines, Ill. Filed Feb. 27, 1941.

Stream-Flo

FOR ELECTRIC LIGHTING FIXTURES.
Claims use since December, 1940.

Ser. No. 441,043. BENJAMIN ELECTRIC MFG. COMPANY, Des Plaines, Ill. Filed Feb. 27, 1941.

Triple-Flo

FOR ELECTRIC LIGHTING FIXTURES.
Claims use since August, 1940.

Ser. No. 441,044. BENJAMIN ELECTRIC MFG. COMPANY, Des Plaines, Ill. Filed Feb. 27, 1941.

Twin-Flo

FOR ELECTRIC LIGHTING FIXTURES.
Claims use since April, 1940.

Ser. No. 449,168. CIRCULATORS & DEVICES MFG. CORP., New York, N. Y. Filed Dec. 4, 1941.

FRIGID

FOR ELECTRICAL AIR CIRCULATORY FANS.
Claims use since June 6, 1941.

Ser. No. 450,249. TECA CORPORATION, New York, N. Y. Filed Jan. 15, 1942.



FOR DRY CELL AND WET STORAGE BATTERIES, ELECTRIC CURRENT RECTIFIERS, GENERATORS FOR ELECTRIC CURRENT, SWITCHES AND SWITCH PANELS, APPARATUS FOR REGULATING ELECTRIC CURRENT, POLE CHANGERS, ELECTRIC BULBS, ELECTRO MOTORS.
Claims use since July 2, 1941.

Ser. No. 450,259. FARMERS ENGINEERING & MANUFACTURING Co., Wilkinsburg, Pa. Filed Jan. 16, 1942.

FIRE BALL

FOR ELECTRICAL FENCE CHARGING APPARATUS AND EQUIPMENT COMPRISING ELECTRIC FENCE CONTROLLERS AND ASSOCIATED EQUIPMENT SUCH AS ELECTRONIC TUBES, WIRES, INSULATORS, TESTERS, AND GROUND CLAMPS.
Claims use since Nov. 22, 1941.

Ser. No. 450,415. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed Jan. 23, 1942.

Kodak

FOR ELECTRIC TACKING IRONS AND ELECTRIC IRONS FOR THERMOPLASTIC MOUNTING OR ATTACHING.
Claims use since Dec. 11, 1941.

Ser. No. 450,416. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed Jan. 23, 1942.

THERMOUNT

FOR ELECTRIC TACKING IRONS, AND ELECTRIC IRONS FOR THERMOPLASTIC MOUNTING OR ATTACHING.
Claims use since Dec. 11, 1941.

Ser. No. 450,478. FISHER SCIENTIFIC COMPANY, Pittsburgh, Pa. Filed Jan. 26, 1942.

HOTSPOTTER

FOR ELECTRICAL HEATING DEVICE WITH OPEN COIL HEATING ELEMENT AND RHEOSTAT CONTROL TO PROVIDE A SMALL, CONCENTRATED SOURCE OF HEAT FOR LABORATORY USE.
Claims use since Dec. 15, 1941.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 448,162. LOLITA DUNCAN MUNFORD, Richmond, Va. Filed Oct. 27, 1941.

KUDDLE-DUDDLE

FOR DOLLS AND OTHER TOYS—NAMELY, STUFFED ANIMALS.
Claims use since Oct. 17, 1941.

Ser. No. 449,968. FORREST NALL, Kansas City, Mo. Filed Jan. 2, 1942.

AUTOMATIC BOWLO

The word "Automatic" is disclaimed except as used with the word "Bowlo."
FOR BOWLING ALLEYS.
Claims use since Dec. 23, 1941.

Ser. No. 451,207. IDEAL NOVELTY & TOY CO., Long Island City, N. Y. Filed Feb. 25, 1942.

PLASSIE

FOR DOLLS.
Claims use since Feb. 10, 1942.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 445,567. THE WESTINGHOUSE AIR BRAKE COMPANY, Borough of Wilmerding, Pa. Filed July 22, 1941.

Flexair

FOR MANUALLY OPERABLE PNEUMATIC CONTROL VALVES EMPLOYED IN INDUSTRIAL MACHINERY, DRILL RIGS, EXCAVATING MACHINES, MACHINE TOOLS, HOISTS, BOATS, DREDGES, POWER SHOVELS, AND CRANES.
Claims use since June 10, 1941.

Ser. No. 446,517. THE CINCINNATI MILLING MACHINE Co., Cincinnati, Ohio. Filed Aug. 25, 1941.

MONOSET

FOR MACHINE TOOLS—NAMELY, GRINDING MACHINES FOR GENERAL METAL WORKING PURPOSES, INCLUDING TOOL AND CUTTER GRINDERS EXCLUSIVE OF ANY ABRADING ELEMENTS.
Claims use since May, 1939.

Ser. No. 447,703. LE ROI COMPANY, West Allis, Wis. Filed Oct. 11, 1941.

ECONOTROL

FOR AUTOMATIC REGULATORS FOR CONTROLLING THE SPEED OF ENGINE DRIVEN COMPRESSORS OR PUMPS.
Claims use since Sept. 20, 1941.

Ser. No. 447,750. METAL SPECIALTIES MANUFACTURING Co., Chicago, Ill. Filed Oct. 13, 1941.

PRESTO

FOR STAPLING MACHINES, STAPLE REMOVERS, PAPER PUNCHES, AND PENCIL SHARPENING MACHINES.
Claims use since Aug. 10, 1935.

Ser. No. 449,028. WÄRTSILÄ-YHTYMÄ O/Y-WÄRTSILÄ-KONCERNEN A/B, Vartsila, Finland. Filed Nov. 28, 1941.

MILKA

FOR DAIRY MACHINERY—NAMELY, MILK AND CREAM SEPARATORS.
Claims use since Aug. 15, 1912.

Ser. No. 450,113. PARKS AND WOOLSON MACHINE Co., Springfield, Vt. Filed Jan. 9, 1942.

LONDONIZING MACHINE

No claim is made to the word "Machine" apart from the mark.
FOR CLOTH FINISHING MACHINES ACTING TO SPONGE THE CLOTH.
Claims use since Jan. 1, 1940.

Ser. No. 450,154. ATLAS SUPPLY COMPANY, Newark, N. J. Filed Jan. 12, 1942.

ATLAS

FOR PORTABLE HAND OPERATED FIRE EXTINGUISHERS.
Claims use since Dec. 31, 1941.

Ser. No. 450,930. THE UNION FORK & HOE COMPANY, Columbus, Ohio. Filed Feb. 12, 1942.

FARMCRAFT

FOR HAND OPERATED TOOLS—NAMELY, AXES, CULTIVATORS, CUTTERS, LETTUCE CUTTERS, THISTLE, DOCK AND WEED CUTTERS, D-HANDLES FOR TOOLS, DRAGS, MANURE DRAGS, POTATO DRAGS, PHOSPHATE DRAGS, STONE DRAGS, EDGERS, LAWN EDGERS, TURF EDGERS, FORKS, LIGHT AND HEAVY FORKS, ALFALFA FORKS, ASPHALT FORKS, BALING FORKS, BALLAST FORKS, BARLEY FORKS, BEET FORKS, CLOVER FORKS, COAL FORKS, COAL SCOOP FORKS, COKE FORKS, COTTON SEED FORKS, ENGLISH DIGGING FORKS, ENSILAGE FORKS, FISH FORKS, FLORAL SPADING FORKS, GRAIN FORKS, HAY FORKS, HEADER FORKS, MANURE FORKS, MILL FORKS, PHOSPHATE FORKS, POTATO DIGGING FORKS, PULP FORKS, SHAVING FORKS, SPADING FORKS, STREET FORKS, STONE FORKS, STONE PICKER FORKS, TANNERS' FORKS, TAR FORKS, VEGETABLE SCOOP FORKS, FLORAL GARDEN TOOLS, ICE CHISELS, HOES, BEET HOES, BLACKLAND HOES, BOYS' HOES, CORN HOES, COTTON HOES, COTTON CHOPPER HOES, CULTIVATOR HOES, EYE HOES, FIELD HOES, FLORAL HOES, GARDEN HOES, GRADING HOES, GRAPE HOES, GRUB HOES, HANDLED SPROUTING HOES, HANDLED SQUARE EYE HOES, LADIES' HOES, MATTOCK HOES, MEADOW HOES, MORTAR HOES, MORTAR MIXER HOES, NURSERY HOES, NURSERYMEN'S HOES, ONION HOES, PLANTER HOES, RHODE ISLAND HOES, RIVETED HOES, SCUFFLE HOES, SPROUTING HOES, STRAWBERRY HOES, STREET HOES, SUGAR BEET HOES, THINNING HOES, TOBACCO HOES, WARREN HOES, WEEDING HOES, WHIRLWIND HOES, CLAM HOOKS, GARBAGE HOOKS, MANURE HOOKS, NURSERYMEN'S HOOKS, PHOSPHATE HOOKS, POTATO HOOKS, REFUSE HOOKS, STONE HOOKS, LAWN COMBS, POKERS, RAKES, ASPHALT RAKES, BRUME RAKES, CLAM RAKES, CURVED TOOTH RAKES, DANDELION RAKES, FLAT BOW RAKES, FLORAL RAKES, GARDEN RAKES, GRAVEL RAKES, LAWN RAKES, LEVEL HEAD RAKES, MALLEABLE RAKES, PINE NEEDLE RAKES, ROAD RAKES, ROUND BOW RAKES, SINGLE SHANK RAKES, STEEL RAKES, STONE RAKES, TAR RAKES, TWO-MAN RAKES, WIRE LAWN RAKES, SEEDLING SETTERS, SCOOPS, SCRAPERS, BARN FLOOR SCRAPERS, CHICKEN HOUSE SCRAPERS, DECK SCRAPERS, FLOOR SCRAPERS, SHIP SCRAPERS, SHOVELS, FIRE SHOVELS, FLORAL SHOVELS, SIDE WALK CLEANERS, SOD LIFTERS, SPADES, CONCRETE SPADES, HAND SPADES, TOOL HANDLES AND PARTS THEREOF, TROWELS, GARDEN TROWELS, NURSERYMEN'S TROWELS, TRANSPLANTING TROWELS, WEEDERS, DANDELION WEEDERS, HAND WEEDERS, ONION WEEDERS.
Claims use since Jan. 20, 1942.

Ser. No. 450,964. HARRIS-SEYBOLD-POTTER COMPANY, Cleveland, Ohio. Filed Feb. 14, 1942. Under 10-year proviso.

SEYBOLD

FOR PAPER CUTTERS, PAPER TRIMMERS, PAPER CHOPPERS, ROTARY PAPERBOARD CUTTERS, KNIFE GRINDERS, MACHINES FOR EMBOSSING PAPER, PAPERBOARD, LEATHER, AND LIKE NON-METALLIC MATERIALS, DIE PRESSES AND CORNER CUTTERS FOR HANDLING NON-METALLIC MATERIALS, AND PARTS FOR SUCH MACHINES.
Claims use since 1894.

Ser. No. 451,541. REMINGTON RAND INC., Buffalo, N. Y. Filed Mar. 10, 1942.

STREAMLINER

FOR TYPEWRITERS.
Claims use since Feb. 4, 1941.

CLASS 26
MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 445,319. HAROLD L. DE LISLE, doing business as Engineering Sales Company, Sheboygan, Wis. Filed July 14, 1941.



FOR PARALLEL RULERS, STRAIGHTEDGES, T-SQUARES, PARALLEL RULING ATTACHMENTS, CABLES FOR PARALLEL RULING ATTACHMENTS, DRAWING TABLES, TOOL TRAYS AND DRAWERS FOR DRAWING TABLES, DRAWING KITS, DRAFTING STOOLS, DRAFTING BENCHES, DRAFTING CHAIRS, BACK RESTS FOR DRAFTING STOOLS AND DRAFTING CHAIRS, AND DRAWING BOARDS.
Claims use since April, 1937.

CLASS 27
HOROLOGICAL INSTRUMENTS

Ser. No. 451,072. BULOVA WATCH COMPANY, INC., New York, N. Y. Filed Feb. 19, 1942.

WAR TIME

FOR WATCHES—NAMELY, WRIST OR STRAP WATCHES.
Claims use since Feb. 2, 1942.

CLASS 37
PAPER AND STATIONERY

Ser. No. 450,892. ARKWRIGHT FINISHING COMPANY, Providence, R. I. Filed Feb. 11, 1942.

Prudence

FOR TRACING CLOTH AND PENCIL CLOTH.
Claims use since Feb. 18, 1927.

Ser. No. 450,970. LEADWAY STORES CORPORATION, also doing business as Leadway Foods, Chicago, Ill. Filed Feb. 14, 1942.

LEADWAY

FOR TOILET TISSUE.
Claims use since May 16, 1939.

CLASS 38
PRINTS AND PUBLICATIONS

Ser. No. 450,303. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Jan. 19, 1942.

'GREAT MOMENTS IN MUSIC'

The word "Music" is disclaimed apart from the mark.
FOR SCRIPTS FOR RADIO BROADCASTS ISSUED FROM TIME TO TIME.
Claims use since Jan. 7, 1942.

Ser. No. 450,321. TRADEPRESS PUBLISHING CORPORATION, Chicago, Ill. Filed Jan. 19, 1942.

Finesse

FOR SECTION OF A PERIODICAL.
Claims use since Dec. 1, 1941.

Ser. No. 450,927. ASHTON B. COLLINS, Birmingham, Ala. Filed Feb. 10, 1942.

REDDY NEWS

No claim is made to the word "News" apart from the mark.
FOR NEWSPAPER ISSUED FROM TIME TO TIME.
Claims use since Jan. 8, 1942.

Ser. No. 451,074. DEFENDER PHOTO SUPPLY CO., INC., Rochester, N. Y. Filed Feb. 19, 1942.

INFOGUIDE

FOR OPERATIONAL GUIDE CHARTS FOR USE IN CONNECTION WITH PHOTOGRAPHIC DEVELOPERS AND PAPERS.
Claims use since Jan. 30, 1942.

Ser. No. 451,222. BOYS' CLUBS OF AMERICA, INC., New York, N. Y. Filed Feb. 26, 1942.

BoysscluB

FOR MONTHLY MAGAZINE.
Claims use since July 15, 1941.

Ser. No. 451,223. BOYS' CLUBS OF AMERICA, INC., New York, N. Y. Filed Feb. 26, 1942.



FOR MONTHLY MAGAZINE.
Claims use since July 15, 1941.

CLASS 39
CLOTHING

Ser. No. 444,015. DAVE SCHWARTZ, New York, N. Y. Filed May 28, 1941.

Mi-Lady

FOR WASH FROCKS FOR WOMEN, MISSES, AND GIRLS.
Claims use since Jan. 2, 1941.

Ser. No. 448,045. ISIDORE GOLDENBERG, New York, N. Y. Filed Oct. 23, 1941.

PREST-O-CLIP

FOR MEN'S NECKTIES.
Claims use since May 1, 1941.

Ser. No. 448,932. AYR SCOTCH WOOLS, INCORPORATED, Green's Farms, Conn. Filed Nov. 26, 1941.



The picture is fanciful.
FOR MEN'S, WOMEN'S, AND CHILDREN'S SUITS, COATS, AND HATS.
Claims use since May 1, 1939.

Ser. No. 449,135. HANES HOSIERY MILLS CO., Winston-Salem, N. C., and New York, N. Y. Filed Dec. 3, 1941.

Beauty Miss

Applicant disclaims the word "Beauty" apart from the mark.
FOR HOSIERY.
Claims use since Nov. 28, 1941.

Ser. No. 449,591. THE SILVERTEX COMPANY, Philadelphia, Pa. Filed Dec. 18, 1941.

ROYAL ELM BY Silvertex

FOR MEN'S, BOYS', AND CHILDREN'S OUTER GARMENTS, CONSISTING OF COATS, VESTS, PANTS, OVERCOATS, RAIN COATS, DUSTERS, MACKINAWS, ULSTERS, AUTOMOBILE COATS, AND BATH WRAPS.
Claims use since Sept. 1, 1937.

Ser. No. 450,178. THE ENRO SHIRT COMPANY, INC., Louisville, Ky. Filed Jan. 13, 1942.

RAYTONES

FOR MEN'S PAJAMAS.
Claims use since June, 1936.

Ser. No. 450,432. JOSEPH STEIN, doing business as Joseph Stein Coat Co., New York, N. Y. Filed Jan. 23, 1942.

"Junior Prom"

FOR LADIES' AND MISSES' COATS, SUITS, AND SKIRTS.
Claims use since October, 1941.

Ser. No. 450,800. JEUDA TEXTILE CORPORATION, New York, N. Y. Filed Feb. 6, 1942.



The wording "Quality Apron" and "Guaranteed Fast to Washing" is disclaimed apart from the mark.
FOR LADIES' HOUSE DRESSES AND APRONS.
Claims use since Jan. 2, 1940.

Ser. No. 450,917. JOSEPH H. COHEN & SONS, VANITY CLOTHES, INC., New York, N. Y. Filed Feb. 12, 1942.

Lin-o-cool

The word "Cool" apart from the mark is disclaimed.
FOR MEN'S CLOTHING—NAMELY, OVERCOATS, TOPCOATS AND SUITS.
Claims use since Jan. 5, 1942.

Ser. No. 451,000. CHENEY BROTHERS, Manchester, Conn., and New York, N. Y. Filed Feb. 16, 1942.

RAYLON

FOR NECKTIES.
Claims use since Nov. 13, 1941.

Ser. No. 451,002. CLUETT, PEABODY & CO., INC., Troy, N. Y. Filed Feb. 16, 1942.

DOUBLER

FOR NEGLIGEE DRESS SHIRTS.
Claims use since February, 1940.

Ser. No. 451,048. E-CUT KNITTING MILLS, Royersford, Pa. Filed Feb. 18, 1942.

Speedon BY E-CUT

FOR INFANTS' AND CHILDREN'S KNITTED UNDERWEAR.
Claims use since February, 1938.

Ser. No. 451,144. MAYFLOWER DRESS CO., INC., New York, N. Y. Filed Feb. 21, 1942.

WORK-N-WIN

FOR LADIES' AND MISSES' DRESSES, BLOUSES, SUITS, SLACKS, PAJAMAS, HOUSECOATS, PLAYSUITS, AND OVERALLS.
Claims use since Jan. 13, 1941.

Ser. No. 451,168. G., H. & E. FREYDBERG, INC., New York, N. Y. Filed Feb. 23, 1942.

Wraparonq

FOR CHILDREN'S COMBINATION GARMENTS CONSISTING OF SHORTS, A WRAP AROUND SKIRT AND A BIB FRONT SUSPENDER.
Claims use since Feb. 6, 1942.

Ser. No. 451,282. BEAVER SHIRT MANUFACTURING CO., INC., New York, N. Y. Filed Feb. 28, 1942.

BEAVERCREST

FOR MEN'S DRESS AND SPORT SHIRTS.
Claims use since Sept. 3, 1940.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 444,066. BEACON LOOMS, INC., New York, N. Y. Filed May 31, 1941.

BEACON RUGS

The word "Rugs" is disclaimed apart from the mark.
FOR RUGS AND CARPETS.
Claims use since Apr. 15, 1940.

Ser. No. 445,938. HARRISON MILLS, INC., East Newark, N. J. Filed Aug. 4, 1941.

Duofleece

The word "Fleece" is disclaimed apart from the mark.
FOR PIECE GOODS OF COTTON, WOOL, RAYON, SILK, AND COMBINATIONS THEREOF.
Claims use since Feb. 13, 1941.

Ser. No. 449,699. PLYMOUTH DYE WORKS, INC., Paterson, N. J. Filed Dec. 22, 1941.

INFRA-SET

FOR PIECE GOODS IN RAYON OR SILK OR COMBINATION THEREOF.
Claims use since Sept. 22, 1941.

Ser. No. 450,086. THE BARBIZON CORPORATION, New York, N. Y. Filed Jan. 9, 1942.

JAUNTY-SPUN

The word "Spun" is disclaimed apart from the mark.
FOR PIECE GOODS OF SPUN RAYON FABRICS.
Claims use since Dec. 1, 1941.

Ser. No. 450,222. CABIN CRAFTS, Dalton, Ga. Filed Jan. 15, 1942.

Cabin Crafts

FOR BEDSPREADS AND RUGS.
Claims use since June 1, 1932.

Ser. No. 450,509. KLEIN BROTHERS TEXTILE CORP., New York, N. Y. Filed Jan. 27, 1942.

A BRIC-A-BRAC PRINT--

The word "Print" is disclaimed apart from the mark.
FOR TEXTILE FABRICS IN THE PIECE, OF RAYON, ACETATE, SILK, CREPE, COTTON, AND IN COMBINATIONS THEREOF.
Claims use since Jan. 19, 1942.

CLASS 43

THREAD AND YARN

Ser. No. 450,185. CLARENCE M. MORETTI, doing business as Selvo Co., San Francisco, Calif. Filed Jan. 13, 1942.

Selvo

FOR SELVAGE STRIPS CUT FROM LENGTHS OF PIECE GOODS AND PLACED IN TRANSPARENT PACKAGES TO BE USED IN CROCHETING, KNITTING, PUNCHWORK, AND WEAVING.
Claims use since Dec. 1, 1941.

Ser. No. 450,714. COURTAULDS, LIMITED, London, England. Filed Feb. 4, 1942.

COURDUL

FOR YARNS OF CELLULOSE.
Claims use since 1938.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 450,667. THE SQUIRT COMPANY, Beverly Hills, Calif. Filed Feb. 2, 1942.

"Just call me Squirt"

FOR NON-ALCOHOLIC BEVERAGES AND THE BASES, SYRUPS, CONCENTRATES, AND/OR EXTRACTS FOR MAKING SAME.
Claims use since May 20, 1941.

Ser. No. 451,120. SAFEWAY STORES, INC., OF NEVADA, Oakland, Calif. Filed Feb. 20, 1942.

FRECKLES



The picture is fanciful.
FOR NON-ALCOHOLIC, NON-CEREAL, MALTLESS, CARBONATED BEVERAGES, AND SYRUPS AND EXTRACTS FOR MAKING.
Claims use since Sept. 24, 1940.

Ser. No. 451,489. ARTHUR J. DELAUNAY, Spring Lake, N. J. Filed Mar. 9, 1942.

Cue

FOR NON-ALCOHOLIC MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS AND EXTRACTS USED FOR MAKING SAME.
Claims use since November, 1939.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 444,163. STELLA CHEESE COMPANY, Chicago, Ill. Filed June 3, 1941.

SABAUDIA

FOR CHEESE.
Claims use since May 1, 1940.

Ser. No. 445,238. OSCAR MAYER & CO., Chicago, Ill. Filed July 10, 1941.



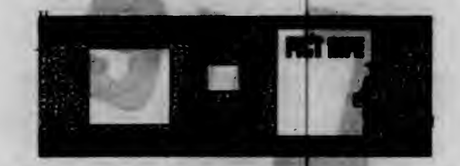
The trade-mark consists of a relatively narrow blue colored stripe or band applied centrally about the article. No claim is made to the representation of a blue colored label as such. The representation of the article is disclaimed. Applicant is the owner of T. M. Reg. Nos. 378,258, and 353,927.
FOR MEAT PRODUCTS—NAMELY, SAUSAGE.
Claims use since Aug. 2, 1940.

Ser. No. 447,577. H. H. SCHUMACHER, doing business as B-Z-B Honey Company and also as Bee Line Honey Co., Alhambra, Calif. Filed Oct. 6, 1941.

Bee-kissed

FOR HONEY.
Claims use since Sept. 28, 1920.

Ser. No. 448,805. SCHUCKL & CO., INC., doing business as Sunnyvale Packing Company, San Francisco, Calif. Filed Nov. 21, 1941.



The words "Pic't Ripe" and the representation of the peaches are disclaimed apart from the mark.
FOR CANNED FRUITS.
Claims use since Oct. 20, 1941.

Ser. No. 449,638. JUAN M. CEBALLOS, doing business as Three Winds Dairy, Westbury, Long Island, N. Y. Filed Dec. 20, 1941.

THREE WINDS DAIRY

The word "Dairy" is disclaimed apart from the mark.
FOR GOAT'S MILK.
Claims use since 1932.

Ser. No. 449,907. THOMAS J. LIPTON, INC., Hoboken, N. J. Filed Dec. 31, 1941. Under 10-year proviso.

LIPTON

FOR TEA.
Claims use since 1893.

Ser. No. 449,908. THOMAS J. LIPTON, INC., Hoboken, N. J. Filed Dec. 31, 1941. Under 10-year proviso.

LIPTON'S

FOR TEA.
Claims use since 1893.

Ser. No. 449,909. THOMAS J. LIPTON, INC., Hoboken, N. J. Filed Dec. 31, 1941. Under 10-year proviso.

Thomas Lipton

FOR TEA.
Claims use since 1893.

Ser. No. 449,910. THOMAS J. LIPTON, INC., Hoboken, N. J. Filed Dec. 31, 1941. Under 10-year proviso.



FOR TEA.
Claims use since 1893.

Ser. No. 450,449. HOLLY-CATER COMPANY, Cleveland, Ohio. Filed Jan. 24, 1942.

PRL-HAR-BAR

The term "Bar" is disclaimed except as shown.
FOR CONFECTION—NAMELY, CANDY BARS.
Claims use since Jan. 21, 1942.

Ser. No. 450,851. FOSTER CANNING COMPANY OF OHIO, Napoleon, Ohio. Filed Feb. 9, 1942.



FOR CANNED DOG FOOD.
Claims use since November, 1940.

Ser. No. 450,896. FRUIT DISPATCH COMPANY, New York, N. Y. Filed Feb. 11, 1942.

UNIFRUIT

No claim is made to the representation of a hand of bananas apart from the mark.
FOR BANANAS.
Claims use since Jan. 27, 1942.

Ser. No. 451,138. THE GREAT ATLANTIC & PACIFIC TEA COMPANY, New York, N. Y. Filed Feb. 21, 1942.

Sunnyfield
RICE GEMS

The word "Rice" is disclaimed except as shown.
FOR BREAKFAST CEREAL.
Claims use since Oct. 8, 1941.

Ser. No. 451,324. FRANCIS C. STOKES COMPANY, Vincentown, N. J. Filed Feb. 28, 1942. Under 10-year proviso.

STOKES

FOR APPLE JUICE FOR FOOD PURPOSES AND CANNED SWEET POTATOES.
Claims use since 1881.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 451,150. TIVOLI BREWING COMPANY, Detroit, Mich. Filed Feb. 21, 1942.

ALTES

FOR BEER.
Claims use since Sept. 27, 1939.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 450,843. R. C. WILLIAMS & COMPANY, INC., New York, N. Y. Filed Feb. 7, 1942.

R.C.W

FOR LIQUEURS.
Claims use since Jan. 20, 1942.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 450,767. MAX B. HEIM, New York, N. Y. Filed Feb. 5, 1942.

BLITZGLAS

FOR PLATE GLASS SUBSTITUTE MADE FROM SYNTHETIC RESIN OR ANY OTHER MATERIAL.
Claims use since Jan. 15, 1942.

Ser. No. 450,918. THE PANTASOTE LEATHER COMPANY, Passaic, N. J. Filed Feb. 12, 1942.

FLAMELESSOTE

FOR ARTIFICIAL LEATHER.
Claims use since Jan. 20, 1942.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

APRIL 21, 1942

394,653. MALTLESS, NON-ALCOHOLIC, NON-CEREAL APPLE BEVERAGE SOLD AS A SOFT DRINK AND SYRUP AND EXTRACTS FOR MAKING THE SAME. THE APEL-JOY CO., Tonawanda, N. Y.
Filed May 10, 1938. Serial No. 406,167. PUBLISHED JANUARY 27, 1942. Class 45.

394,654. GIRDLES AND PANTIE GIRDLES. WINSHIP-BOIT COMPANY, Wakefield, Mass.
Filed March 6, 1939. Serial No. 416,753. PUBLISHED MAY 2, 1939. Class 39.

394,655. MERCHANDISE CERTIFICATES. FREDERICK A. KNOWLTON, Denver, Colo.
Filed September 25, 1939. Serial No. 423,916. PUBLISHED FEBRUARY 3, 1942. Class 38.

394,656. WHISKEY. GALLAGHER & BURTON, INC., Philadelphia, Pa.
Filed December 23, 1940. Serial No. 439,100. PUBLISHED FEBRUARY 3, 1942. Class 49.

394,657. PUBLICATION EMBRACING MATTER PRINCIPALLY DESCRIPTIVE OF SMALL ARMS, AMMUNITION, COMPONENTS THEREFOR, AND SHOOTERS' ACCESSORIES PUBLISHED FROM TIME TO TIME. STOEGER ARMS CORPORATION, New York, N. Y.
Filed June 12, 1941. Serial No. 444,472. PUBLISHED FEBRUARY 3, 1942. Class 38.

394,658. WINES AND APERITIVE WINES. COMPANHIA ANTARCTICA PAULISTA, Sao Paulo, Brazil.
Filed July 7, 1941. Serial No. 445,134. PUBLISHED JANUARY 13, 1942. Class 47.

394,659. BEVERAGES MADE WITH A FRUIT JUICE BASE. FRANK MAYER, doing business as Sunset Valley Orange Co., Chicago, Ill.
Filed July 17, 1941. Serial No. 445,428. PUBLISHED JANUARY 27, 1942. Class 45.

394,660. CRANKCASE INSULATION AND OTHER INSULATING COATINGS FOR VEHICLES, ETC. PENTRATHANE PRODUCTS, INC., Long Island City, N. Y.
Filed August 12, 1941. Serial No. 446,176. PUBLISHED JANUARY 6, 1942. Class 12.

394,661. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND SYRUPS, EXTRACTS, AND CONCENTRATES FOR MAKING THE SAME. KO-VA CORPORATION, Chicago, Ill.
Filed August 23, 1941. Serial No. 446,501. PUBLISHED FEBRUARY 3, 1942. Class 45.

394,662. PERIODICALS PUBLISHED MONTHLY. UNITED PRESS ASSOCIATIONS, New York, N. Y.
Filed October 13, 1941. Serial No. 447,772. PUBLISHED FEBRUARY 3, 1942. Class 38.

394,663. VERMOUTH. HENRY KELLY IMPORTING & DISTRIBUTING CO. INC., New York, N. Y.
Filed October 21, 1941. Serial No. 447,981. PUBLISHED FEBRUARY 3, 1942. Class 47.

394,664. PERIODICAL PUBLICATION RELATING TO PREDICTION OF EVENTS. HALLEY STEWART, Las Vegas, Nev.
Filed October 21, 1941. Serial No. 447,988. PUBLISHED FEBRUARY 3, 1942. Class 38.

394,665. CERAMIC TABLE AND COOKING WARE, VASES, JARS, JUGS, JARDINIERES, CROCKS, CUSPIDORS, AND FLOWER POTS. MABEL CUMBOW RUSKIN, Abingdon, Va.
Filed October 22, 1941. Serial No. 448,012. PUBLISHED JANUARY 13, 1942. Class 30.

394,666. CARBONATED NON-ALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND SYRUPS FOR COMPOUNDING THE SAME. SEMINOLE FLAVOR COMPANY, Chattanooga, Tenn.
Filed November 3, 1941. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 448,375. PUBLISHED JANUARY 27, 1942. Class 45.

394,667. WHISKEY. GLENMORE DISTILLERIES CO., Owensboro, Ky.
Filed November 6, 1941. Serial No. 448,429. PUBLISHED FEBRUARY 3, 1942. Class 49.

394,668. WHISKEY. GLENMORE DISTILLERIES CO., Owensboro, Ky.
Filed November 6, 1941. Serial No. 448,430. PUBLISHED FEBRUARY 3, 1942. Class 49.

394,669. WHISKEY AND GIN. BROOKSIDE DISTILLING PRODUCTS CORP., Scranton, Pa.
Filed November 13, 1941. Serial No. 448,598. PUBLISHED FEBRUARY 3, 1942. Class 49.

394,670. ALE. STERLING BREWERS, INC., Evansville, Ind.
Filed November 13, 1941. Serial No. 448,627. PUBLISHED JANUARY 27, 1942. Class 48.

394,671. COAL. THE HARRY E. COAL COMPANY, Swoyerville, Pa.
Filed November 18, 1941. Serial No. 448,721. PUBLISHED FEBRUARY 3, 1942. Class 1.

394,672. ORANGEADE. BEATRICE CREAMERY COMPANY, Chicago, Ill.
Filed November 24, 1941. Serial No. 448,848. PUBLISHED FEBRUARY 3, 1942. Class 45.

394,673. MEN'S SHORTS AND PAJAMAS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 24, 1941. Serial No. 448,858. PUBLISHED FEBRUARY 3, 1942. Class 39.

394,674. ORANGE SODA BEVERAGE. CANADA DRY GINGER ALE, INCORPORATED, New York, N. Y.
Filed December 6, 1941. Serial No. 449,224. PUBLISHED FEBRUARY 3, 1942. Class 45.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

394,675. (CLASS 37. PAPER AND STATIONERY.) WILLIAM F. NOLAN, Butler, Pa. Filed Feb. 24, 1936. Serial No. 375,161.



FOR ABSORBENT TISSUE PAPER SHEETS FOR USE AS HANDKERCHIEFS OR CLEANERS PACKED IN DISPENSING CARTONS.
Claims use since Oct. 16, 1935.

394,676. (CLASS 35. BELTING, HOSE, MACHINERY PACKING AND NONMETALLIC TIRES.) CONTINENTAL PISTON RING COMPANY, Memphis, Tenn. Filed Nov. 18, 1936. Serial No. 385,687.

ELASTIC

FOR METALLIC PISTON RINGS.
Claims use since January, 1920.

394,677. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NATIONAL BADMINTON COMPANY, Boston, Mass. Filed Sept. 21, 1939. Serial No. 423,820.

poona

FOR BADMINTON SHUTTLECOCKS.
Claims use since May 19, 1937.

394,678. (CLASS 38. PRINTS AND PUBLICATIONS.) POSTER STAMP PUBLISHING COMPANY, Chicago, Ill. Filed Dec. 16, 1939. Serial No. 426,671.

POSTER STAMP
BULLETIN

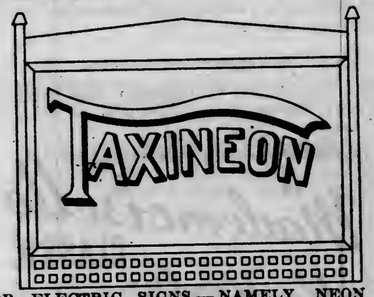
FOR A MONTHLY MAGAZINE.
Claims use since Aug. 1, 1935.

394,679. (CLASS 38. PRINTS AND PUBLICATIONS.) THE CHILDREN'S BIBLE SOCIETY OF AMERICA, Lexington, Ky. Filed Apr. 13, 1940. Serial No. 430,725.

The Childrens Bible
Society of America

FOR PRINTED BIBLES, PAMPHLETS, AND OTHER PRINTED LITERATURE PERTAINING TO THE BIBLE, PRINTED PLACARDS, PICTURES, AND MOTTOES.
Claims use since Feb. 15, 1926.

394,680. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PRESTON Y. WHITMAN, doing business as Taxineon Sign Manufacturing Company, Birmingham, Ala. Filed Aug. 20, 1940. Serial No. 435,186.



FOR ELECTRIC SIGNS — NAMELY, NEON AND MERCURY VAPOR LAMP SIGNS.
Claims use since Oct. 12, 1939.

394,681. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) A. GUSMER, INC., Hoboken, N. J. Filed Oct. 3, 1940. Serial No. 436,607.



FOR ASBESTOS FOR CLARIFYING BEERS.
Claims use since Sept. 24, 1940.

394,682. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) MONARCH LEATHER COMPANY, Chicago, Ill. Filed Nov. 4, 1940. Serial No. 437,569.

ANSONIAN

FOR LEATHER.
Claims use since June, 1925.

394,683. (CLASS 38. PRINTS AND PUBLICATIONS.) CHARLES E. WHITNEY, doing business as Whitney Publishing Company, Palisades, N. Y. Filed Nov. 29, 1940. Serial No. 438,366.

INTERIORS

FOR A MONTHLY MAGAZINE.
Claims use since Nov. 20, 1940.

394,684. (CLASS 39. CLOTHING.) MURRAY WHITE COMPANY, Boston, Mass. Filed Jan. 10, 1941. Serial No. 439,548.

Jane Howard

FOR WOMEN'S AND MISSES' DRESSES.
Claims use since Nov. 1, 1940.

394,685. (CLASS 39. CLOTHING.) TOP NOTCH DRESS COMPANY, Boston, Mass. Filed Jan. 10, 1941. Serial No. 439,570.

A Mademoiselle CLASSIC by Kay Windsor

FOR WOMEN'S AND MISSES' DRESSES.
Claims use since Oct. 1, 1940.

394,686. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SIMPLICITY PATTERN CO., INC., New York, N. Y. Filed Feb. 5, 1941. Serial No. 440,345.

Simplicity AMERICA'S FASHION

FOR PAPER DRESS PATTERNS.
Claims use since Dec. 28, 1940.

394,687. (CLASS 45. BEVERAGES, NONALCOHOLIC.) SEMINOLE FLAVOR COMPANY, Chattanooga, Tenn. Filed Feb. 10, 1941. Serial No. 440,531.

DOUBLE PINEAPPLE

FOR CARBONATED, NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND FLAVORING THEREFOR.
Claims use since Jan. 15, 1941.

394,688. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MORTON G. NEUMANN, doing business as Valmor Products Co., Chicago, Ill. Filed Mar. 5, 1941. Serial No. 441,252.

SLICK-BLACK

FOR HAIR DRESSING POMADE HAVING HAIR COLORING PROPERTIES.
Claims use since Dec. 12, 1940.

394,689. (CLASS 37. PAPER AND STATIONERY.) UNITED PAPER COMPANY, Tampa, Fla. Filed Mar. 10, 1941. Serial No. 441,421.

COVER-ALL

FOR WAX PAPER AND WAXED WRAPPING PAPERS.
Claims use since Feb. 20, 1941.

394,690. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) WESTON INTERNATIONAL CORP., New York, N. Y. Filed Apr. 19, 1941. Serial No. 442,764.



FOR PYROPHORIC LIGHTERS FOR PIPES, CIGARS, AND CIGARETTES.
Claims use since June, 1940.

394,691. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) STEPAN CHEMICAL COMPANY, Chicago, Ill. Filed Apr. 23, 1941. Serial No. 442,881.

STEPAN

FOR LIQUIDS, POWDERS, PASTES, AND SOAPS SUITABLE FOR CLEANING CLOTHING AND FOR OTHER CLEANING USES.
Claims use since Feb. 1, 1940.

394,692. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) WILBUR B. DRIVER COMPANY, Newark, N. J. Filed Apr. 25, 1941. Serial No. 442,939.

DRIVERBEST

FOR ALLOYS FOR WIRES.
Claims use since Feb. 25, 1941.

394,693. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) LES FABRIQUES D'ASSORTIMENTS RÉUNIES, Le Locle, Switzerland. Filed May 14, 1941. Serial No. 443,573.

"CARY,,

FOR LINEAR MEASURING INSTRUMENTS; GAUGES FOR MEASURING INTERNAL AND EXTERNAL DIAMETERS; AND THERMOMETERS.
Claims use since 1936.

394,694. (CLASS 17. TOBACCO PRODUCTS.) CARRERAS, LIMITED, London, England. Filed Sept. 2, 1941. Serial No. 446,733.

CARRERAS

FOR CIGARETTES, SMOKING TOBACCO, CIGARS AND SNUFF.
Claims use since 1862.

394,695. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) KRAUS BROS. & CO., INC., New York, N. Y. Filed Sept. 30, 1941. Serial No. 447,441.

COLBERT

FOR WHISKIES, GINS AND ALCOHOLIC CORDIALS.
Claims use since October, 1912.

394,696. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WALLY BLAUSTEIN, New York, N. Y. Filed Oct. 10, 1941. Serial No. 447,653.

LES PARFUMS COROT

FOR PERFUME, TOILET WATER, HAIR LOTION, BRILLIANTINE, EAU DE COLOGNE, LAVENDER WATER, HAND LOTION, FACE LOTION, LIPSTICK, FACE POWDER, TALC POWDER, MASCARA, HAND CREAM, LEMON CREAM, CLEANSING CREAM, COLD CREAM, VANISHING CREAM.
Claims use since September, 1939.

394,697. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE SHELBY CYCLE COMPANY, Shelby, Ohio. Filed Oct. 23, 1941. Serial No. 448,062.

SHELBY BEAUTY BIKE

FOR BICYCLE ACTION EXERCISING MACHINES.
Claims use since May, 1940.

394,698. (CLASS 38. PRINTS AND PUBLICATIONS.) GEORGE I. TOFIAS, Medfield, Mass. Filed Nov. 10, 1941. Serial No. 448,537.

HISTOGRAPHY

FOR EDUCATIONAL BOOKS, CHARTS AND STATISTICAL COMPILATIONS PUBLISHED FROM TIME TO TIME.
Claims use since October, 1923.

394,699. (CLASS 38. PRINTS AND PUBLICATIONS.) COLTON PRESS, INC., New York, N. Y. Filed Nov. 24, 1941. Serial No. 448,853.

PRODUCTION YEARBOOK

FOR PUBLICATIONS COMPRISING REFERENCE MANUAL OF THE GRAPHIC ARTS, PUBLISHED ANNUALLY.
Claims use since 1934.

394,700. (CLASS 47. WINES.) BROOKSIDE DISTILLING PRODUCTS CORPORATION, Scranton, Pa. Filed Dec. 1, 1941. Serial No. 449,076.

For lovers of fine Wine

FOR WINES.
Claims use since Dec. 5, 1933.

394,701. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDMUND B. LEWIS, Fremont, Nebr. Filed Dec. 4, 1941. Serial No. 449,183.

De-Germ-All

FOR DEODORIZER.
Claims use since June 14, 1938.

394,702. (CLASS 32. FURNITURE AND UPHOLSTERY.) HISTORICAL JAMES RIVER PLANTATIONS, INC., Portsmouth, Va. Filed Dec. 9, 1941. Serial No. 449,322.



FOR CHESTS, TABLES, BEDS, CHAIRS, DRESSERS, HIGHBOYS, COMMODES, CHAISES LONGUES, SOFAS, SETTEES, DIVANS, STUDIO COUCHES, DESKS, SECRETARIES, CORNER CABINETS, WHATNOTS, TELEPHONE STANDS, BUFFETS, SIDEBOARDS, CHINA CABINETS, CELLARETTES, BOOKCASES, AND TEA WAGONS.
Claims use since Feb. 5, 1941.

394,703. (CLASS 38. PRINTS AND PUBLICATIONS.) WM. E. WHALEY, doing business as Wm. E. Whaley Company, Louisville, Ky. Filed Dec. 18, 1941. Serial No. 449,595.

TAXIPOSTER

FOR PRINTED ADVERTISING POSTERS SOLD AS SUCH.
Claims use since Nov. 1, 1937.

394,704. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) THE BLACK PRINCE COMPANY, INC., Nutley, N. J. Filed Dec. 23, 1941. Serial No. 449,717.

Richmond Club

FOR GIN.
Claims use since Apr. 21, 1939.

394,705. (CLASS 47. WINES.) COLLEGE INN FOOD PRODUCTS COMPANY, Chicago, Ill. Filed Jan. 5, 1942. Serial No. 449,988.

CELLINI

FOR VERMOUTH.
Claims use since Nov. 7, 1940.

394,706. (CLASS 39. CLOTHING.) STEIN BROTHERS, New York, N. Y. Filed Jan. 19, 1942. Serial No. 450,319.



FOR MEN'S AND BOYS' COATS AND SUITS.
Claims use since Apr. 15, 1940.

394,707. (CLASS 28. JEWELRY AND PRECIOUS METAL WARE.) LILLIAN BARKOW, doing business as Lillian Barkow, Fifth Avenue, New York, N. Y. Filed Jan. 23, 1942. Serial No. 450,413.

CREATED BY Lillian Barkow FIFTH AVENUE NEW YORK

FOR NECKLACES, BRACELETS, EARRINGS AND PINS FOR PERSONAL WEAR NOT INCLUDING WATCHES.
Claims use since Nov. 30, 1939.

394,708. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) GENERAL MILLS, INC., Minneapolis, Minn. Filed Feb. 2, 1942. Serial No. 450,645.

BETTY CROCKER

FOR CERAMIC DISHES.
Claims use since Jan. 22, 1941.

394,709. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. J. PAPARELLI, doing business as San Pedro Drug Co., San Antonio, Tex. Filed Feb. 27, 1942. Serial No. 451,271.



FOR GENERAL TONICS, HEALING OINTMENTS, CORN MEDICINES, LAXATIVES, EYE LOTIONS, COUGH SYRUPS, FACE CREAMS, HAIR PREPARATIONS, AND ROUGE.
Claims use since 1935.

TRADE-MARK REGISTRATIONS RENEWED

151,711. **DISTOL.** PREPARATIONS FOR DISTOMA. Registered February 14, 1922. CHINOIN GYÓGYSZER ÉS VEGYÉSZETI TERMÉKEK GYÁRA R. T. (DR. KERESZTY ÉS DR. WOLF), Ujpest, Hungary, a corporation of Hungary. Renewed February 14, 1942.

151,803. **HECKERS'.** FLOURS, MIDDLINGS, CORN MEAL, CORN FLAKES, HOMINY, RICE, OATMEAL. Registered February 14, 1922. HECKER-JONES-JEWELL MILLING COMPANY. Renewed February 14, 1942, to Hecker Products Corporation, New York, N. Y., a corporation of New Jersey, for Farina, self-raising flour prepared from any kind of flour, self-raising flour prepared from a combination of two or more kinds of flour, buckwheat flour and pancake flour; and to Standard Milling Company, New York, N. Y., a corporation of Delaware, for Wheat flour, whole-wheat flour, Graham flour, Red Dog flour, fancy flour middlings, middlings, bran, rye flour, rye Graham flour, corn meal, corn flakes, hominy, whole rice, granulated rice, oatmeal, rolled oats, flour prepared from any one grain, and flour prepared from any combination of grains, assignees.

153,097. **IDEAL.** EXPANSION-TANKS FOR HEATING SYSTEMS. Registered March 14, 1922. AMERICAN RADIATOR COMPANY, East Orange, N. J., and Chicago, Ill. Renewed March 14, 1942, to American Radiator & Standard Sanitary Corporation, New York, N. Y., a corporation of Delaware, assignee.

153,155. **DU PONT.** PYROXYLIN AND NITROCELLULOSE. Registered March 14, 1922. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del., a corporation of Delaware. Renewed March 14, 1942.

153,159. **VICTORIA.** SHEETS AND PILLOWCASES. Registered March 14, 1922. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed March 14, 1942.

153,352. **VALENS.** CERTAIN NAMED ELECTRO-MEDICAL APPARATUS. Registered March 14, 1922. GEORGE STARR WHITE, Los Angeles, Calif. Renewed March 14, 1942.

153,354. **KIDDIE.** THREE AND FOUR WHEELED COASTERS AND PLAY WAGONS FOR CHILDREN. Registered March 14, 1922. H. C. WHITE COMPANY. Renewed March 14, 1942, to Harrie C. White, North Bennington, Vt., assignee.

153,408. **KEYSTONE.** LEAD PENCILS, MECHANICAL PENCILS, PENHOLDERS, RUBBER ERASERS, AND SOAP ERASERS. Registered March 21, 1922. BLAISDELL PENCIL COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed March 21, 1942.

153,409. **REPRESENTATION OF A KEYSTONE.** LEAD PENCILS, MECHANICAL PENCILS, PENHOLDERS, RUBBER ERASERS, AND SOAP ERASERS. Registered March 21, 1922. BLAISDELL PENCIL COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed March 21, 1942.

153,425. **GAYETY.** WHEAT FLOUR. Registered March 21, 1922. CITY MILLS COMPANY, Columbus, Ga., a corporation of Georgia. Renewed March 21, 1942.

153,665. **CHAMPION.** CARPET SWEEPERS. Registered March 28, 1922. BISSELL CARPET SWEEPER CO. Renewed March 28, 1942, to Bissell Carpet Sweeper Company, Grand Rapids, Mich., a corporation of Michigan, assignee.

153,705. **LITHOSOL.** DYESTUFF INTERMEDIATES. Registered March 28, 1922. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del., a corporation of Delaware. Renewed March 28, 1942.

153,797. **YEASTONE.** EXTRACT OF YEAST FOR MEDICINAL PURPOSES. Registered March 28, 1922. MERCK & Co., New York, N. Y. Renewed March 28, 1942, to Rare Chemicals, Inc., Flemington, N. J., a corporation of New York, assignee by mesne assignments.

153,798. **METRO.** MOTION-PICTURE FILMS. Registered March 28, 1922. METRO PICTURES CORPORATION, New York, N. Y. Renewed March 28, 1942, to Loew's Incorporated, Dover, Del., a corporation of Delaware, assignee by mesne assignments.

153,840. **ROOTS.** ROTARY BLOWERS, GAS PUMPS, WATER PUMPS, AND VACUUM PUMPS. Registered March 28, 1922. THE P. H. & F. M. ROOTS CO. Renewed March 28, 1942, to Roots-Connersville Blower Corporation, Connersville, Ind., a corporation of Indiana, successor.

153,858. **RHODOL.** PHOTOGRAPHIC DEVELOPERS. Registered March 28, 1922. SOCIÉTÉ CHIMIQUE DES USINES DU RHONE, Paris, France. Renewed March 28, 1942, to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware, assignee by mesne assignments.

153,865. **BIOTOSE.** MALT EXTRACT IN DRY AND LIQUID FORM. Registered March 28, 1922. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Renewed March 28, 1942, to Ciba Pharmaceutical Products, Inc., Summit, N. J., a corporation of New Jersey, assignee.

153,866. **BIOTOSE.** GENERAL TONIC. Registered March 28, 1922. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Renewed March 28, 1942, to Ciba Pharmaceutical Products, Inc., Summit, N. J., a corporation of New Jersey, assignee.

154,015. **VENTUBE.** AIR-TIGHT FABRICS, WATER-TIGHT FABRICS, ACID-RESISTANT FABRICS AND HEAT-RESISTANT FABRICS. Registered April 4, 1922. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del., a corporation of Delaware. Renewed April 4, 1942.

154,046. **HEAD-ON BASSER.** FISH BAIT. Registered April 4, 1922. JAMES HEDDON'S SONS, Dowagiac, Mich., a corporation of Michigan. Renewed April 4, 1942.

154,167. **REPRESENTATION OF A HEART PIERCED BY AN ARROW.** CAUSTIC SODA, CHLORATES, BLEACHING POWDERS, SODA ASH, SODA CRYSTALS, AND BICARBONATES. Registered April 4, 1922. THE UNITED ALKALI CO., LTD., Liverpool, England. Renewed April 4, 1942, to I. C. I. (General Chemicals) Limited, Millbank, London, England, a corporation of the United Kingdom of Great Britain and Northern Ireland, by change of name.

154,168. **GREENBANK.** CAUSTIC SODA, CHLORATES, BLEACHING POWDERS, SODA ASH, SODA CRYSTALS, AND BICARBONATES. Registered April 4, 1922. THE UNITED ALKALI CO., LTD., Liverpool, England. Renewed April 4, 1942, to I. C. I. (General Chemicals) Limited, Millbank, London, England, a corporation of the United Kingdom of Great Britain and Northern Ireland, by change of name.

154,278. **DOUBLELIFE.** RAZORS AND RAZOR BLADES, SAFETY RAZORS, AND SAFETY-RAZOR BLADES. Registered April 11, 1922. GEM SAFETY RAZOR CORPORATION. Renewed April 11, 1942, to American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia, assignee.

154,296. **FEMS.** SANITARY NAPKINS. Registered April 11, 1922. HOSPITAL SPECIALTY CO. Renewed April 11, 1942, to The Hospital Specialty Company, Cleveland, Ohio, a corporation of Ohio, assignee.

154,313. **"LIQUID" IN A DIAMOND SHAPED FIGURE.** CARBONIC-ACID GAS. Registered April 11, 1922. THE LIQUID CARBONIC COMPANY. Renewed April 11, 1942, to The Liquid Carbonic Corporation, Chicago, Ill., a corporation of Delaware, assignee.

154,497. **EMBEE.** COFFEE, A BLEND OF CHOCOLATE AND COCOA, MACARONI, AND SPAGHETTI. Registered April 18, 1922. MAX BLUMLEIN. Renewed April 18, 1942, to Else F. Blumlein, doing business as Embee Grocery Stores, San Francisco, Calif., assignee.

154,583. **CAPITAL.** CHOCOLATE COATING. Registered April 18, 1922. IDEAL COCOA & CHOCOLATE CO., Lititz, Pa., and New York, N. Y. Renewed April 18, 1942, to Wilbur-Suchard Chocolate Company, Inc., Lititz, Pa., a corporation of Pennsylvania, assignee.

155,453. **KENWOOD.** STEAMER RUGS, SANITARIUM RUGS, LAP ROBES, OVERCOATING OF TEXTILE FABRIC. Registered May 30, 1922. F. C. HUYCK & SONS, Albany, N. Y. Renewed May 30, 1942, to F. C. Huyck & Sons, Rensselaer and Albany, N. Y., a corporation of New York.

155,510. **RAEZERS' PUL-MON-IC.** A MEDICINE ESPECIALLY ADAPTED FOR USE IN CONNECTION WITH DISEASES OF THE THROAT AND LUNGS. Registered May 30, 1922. GEORGE B. RAEZER. Renewed May 30, 1942, to George B. Raezer, Lititz, Pa., successor.

155,836. **HEMYPNON.** A MEDICINE TO PRODUCE TWILIGHT SLEEP. Registered June 6, 1922. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland, a limited liability company of Switzerland. Renewed June 6, 1942.

156,262. **VENTRE-LIVRE.** A MEDICINAL PREPARATION FOR CONSTIPATION AND DISEASES CAUSED BY WEAKNESS OF THE BOWELS. Registered June 20, 1922. DR. JERONYMO GESTEIRA, Para, Brazil. Renewed June 20, 1942, to Dr. J. Gesteira, Inc., Detroit, Mich., a corporation of Delaware, assignee.

156,330. **LOVELY LADY.** HOSIERY. Registered June 20, 1922. THE LOUIS STIX CO., Cincinnati, Ohio. Renewed June 20, 1942, to Mission Hosiery Mills, A. H. Wittenberg, Inc., Los Angeles, Calif., a corporation of California, assignee by mesne assignments.

156,382. **MINUTE MAN.** COTTON PIECE GOODS. Registered June 20, 1922. PACIFIC MILLS, Lawrence and Boston, Mass. Renewed June 20, 1942, to Pacific Mills, Lawrence, Mass., a corporation of Massachusetts.

156,383. **PACIFIC.** COTTON PIECE GOODS. Registered June 20, 1922. PACIFIC MILLS, Lawrence and Boston, Mass. Renewed June 20, 1942, to Pacific Mills, Lawrence, Mass., a corporation of Massachusetts.

157,027. **CLEVELAND.** METAL-WORKING SMALL TOOLS—NAMELY, SOCKETS, DRILL HOLDERS, DRILL CHUCKS, ARBORS, MANDRELS, TAPS, MILLS, MILLING CUTTERS, COUNTERSINKS, AND COUNTERBORES. Registered July 25, 1922. THE CLEVELAND TWIST DRILL COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed July 25, 1942.

157,183. **GOLD COLOR ON THE EDGE OF BRAKE LINING.** BRAKE LINING. Registered July 25, 1922. THE RAYBESTOS COMPANY, Bridgeport, Conn. Renewed July 25, 1942, to Raybestos-Manhattan, Inc., Passaic, N. J., a corporation of New Jersey, assignee.

157,612. **MATHEWS.** FIRE HYDRANTS. Registered August 8, 1922. WALTER WOOD, trading as R. D. Wood & Co., Philadelphia, Pa. Renewed August 8, 1942, to Florence Pipe Foundry and Machine Company, Florence, N. J., a corporation of New Jersey, assignee.

157,658. **CRESCENT COMPANY.** SWEATERS, BATHING SUITS, KNITTED JACKETS, KNITTED VESTS, MUFFLERS, SCARFS, AND CAPS. Registered August 15, 1922. CRESCENT COMPANY. Renewed August 15, 1942, to Crescent Company, Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

157,730. **OMAHA MAID.** WHEAT FLOUR. Registered August 15, 1922. OMAHA FLOUR MILLS CO. Renewed August 15, 1942, to Omar Incorporated, Omaha, Nebr., a corporation of Delaware, assignee.

157,734. **ROCKLAND.** COTTON PIECE GOODS. Registered August 15, 1922. PACIFIC MILLS, Lawrence and Boston, Mass. Renewed August 15, 1942, to Pacific Mills, Lawrence, Mass., a corporation of Massachusetts.

157,864. **BEACON.** CERTAIN NAMED BLANKETS, COMFORTABLES, BATH-ROBE FLANNEL, AND BLANKET GOODS IN PIECE. Registered August 22, 1922. BEACON MANUFACTURING COMPANY, Providence, R. I. Renewed August 22, 1942, to Beacon Manufacturing Company, Swannanoa, N. C., a corporation of Massachusetts.

158,049. **OAKLAND.** COTTON PIECE GOODS. Registered August 22, 1922. PACIFIC MILLS, Lawrence and Boston, Mass. Renewed August 22, 1942, to Pacific Mills, Lawrence, Mass., a corporation of Massachusetts.

158,050. **MONTAR 84.** COTTON PIECE GOODS. Registered August 22, 1922. PACIFIC MILLS, Lawrence and Boston, Mass. Renewed August 22, 1942, to Pacific Mills, Lawrence, Mass., a corporation of Massachusetts.

158,106. **BODY GUARD.** FIREMEN'S HEAVY DUCK NIGHT COATS, FIREMEN'S DUCK NIGHT PANTS, DUCK HUNTING COATS, AND WHITE DUCK PACKERS' FROCKS. Registered August 22, 1922. ST. JOSEPH TENT & AWNING CO., St. Joseph, Mo., a corporation of Missouri. Renewed August 22, 1942.

158,184. **BACO.** BOILER CHEMICALS. Registered August 29, 1922. THE BIRD-ARCHER COMPANY, New York, N. Y., a corporation of New York. Renewed August 29, 1942.

158,191. **ASHES OF ROSES.** ROUGE, BEING IN THE NATURE OF A COMPACT FACE POWDER. Registered August 29, 1922. A. BOURJOIS & CO. INC. Renewed August 29, 1942, to Bourjois, Inc., New York, N. Y., a corporation of New York, assignee.

158,192. **ELEKTRA.** ROUGE, ROUGE POWDER, LIQUID ROUGE, ROUGE GRAS, LIP SALVE, PREPARATIONS FOR GIVING A LUSTER TO EYEBROWS AND EYELASHES, AND NAIL POLISHES. Registered August 29, 1922. A. BOURJOIS & CO. INC. Renewed August 29, 1942, to Bourjois, Inc., New York, N. Y., a corporation of New York, assignee.

158,434. **FORNT'S ALPEN KRÄUTER.** A CERTAIN NAMED MEDICINAL PREPARATION. Registered September 5, 1922. THE DR. PETER FAHRNEY & SONS CO., Chicago, Ill., a corporation of Illinois. Renewed September 5, 1942.

158,521. **RAT BIS-KIT.** POISON FOR RATS, MICE, AND INSECTS, IN BOTH PASTE AND CAKE FORM. Registered September 5, 1922. THE RAT BISCUIT COMPANY, Springfield, Ohio, a corporation of Ohio. Renewed September 5, 1942.

158,655. **ELLISCO.** TIN CANS AND CLOSURES FOR CANS. Registered September 12, 1922. GEORGE D. ELLIS & SONS, INCORPORATED, Philadelphia, Pa., a corporation of Pennsylvania. Renewed September 12, 1942.

158,686. **"SIR RALBURN".** ARTISTS' BRUSHES. Registered September 12, 1922. MAX GRUMBACHER. Renewed September 12, 1942, to M. Grumbacher, New York, N. Y., a copartnership, assignee.

158,715. **FLINT.** CARBON PAPER. Registered September 12, 1922. KEE LOX MANUFACTURING COMPANY, Rochester, N. Y., a corporation of New York. Renewed September 12, 1942.

158,717. **ELITE.** CARBON PAPER. Registered September 12, 1922. KEE LOX MANUFACTURING COMPANY, Rochester, N. Y., a corporation of New York. Renewed September 12, 1942.

158,719. **IVORY.** CARBON PAPER. Registered September 12, 1922. KEE LOX MANUFACTURING COMPANY, Rochester, N. Y., a corporation of New York. Renewed September 12, 1942.

158,742. **FAIRWAY.** MEN'S OUTER SHIRTS. Registered September 12, 1922. MCMULLEN-LEAVENS CO. INC., New York, N. Y., a corporation of New York. Renewed September 12, 1942.

158,774. **EASY FOOT.** BOOTS, SHOES, AND SLIPPERS OF LEATHER, RUBBER, FELT, SILK, CLOTH, OR OTHER FABRIC CONSTRUCTION. Registered September 12, 1922. THOMAS G. PLANT COMPANY, Boston, Mass. Renewed September 12, 1942, to International Shoe Company, St. Louis, Mo., a corporation of Delaware, assignee by mesne assignments.

158,792. **MOTHEX.** GARMENT-STORAGE BAGS. Registered September 12, 1922. THE ROSETH CORPORATION, Brooklyn, N. Y., a corporation of New York. Renewed September 12, 1942.

158,862. **C. K. WILLIAMS & CO. ANCHOR.** DRY COLORS AND FILLERS. Registered September 12, 1922. C. K. WILLIAMS & CO., Easton, Pa., a corporation of Pennsylvania. Renewed September 12, 1942.

REISSUES

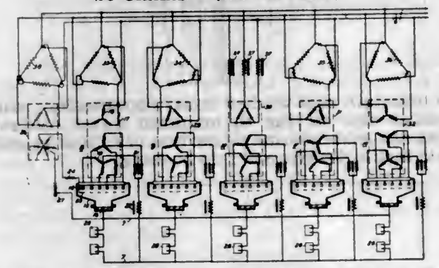
APRIL 21, 1942

22,075
ELECTRIC CURRENT CONVERTING SYSTEM

Donald I. Bohn, Pittsburgh, Pa., and Othmar K. Marti, Wauwatosa, Wis., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Original No. 2,166,900, dated July 18, 1939, Serial No. 231,094, September 22, 1938. Application for reissue October 9, 1940, Serial No. 360,514

26 Claims. (Cl. 175—363)



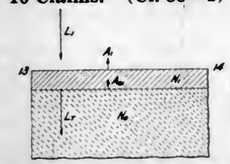
1. In an electric current converting system, the combination with a polyphase alternating current circuit of a predetermined number of phases, a direct current circuit, a plurality of parallel current converters interconnecting said circuits and each comprising a plurality of electric valves and a transformer having a first winding connected with said alternating current circuit and a second winding connected with said valves, said second windings jointly forming a polyphase system having a number of different phases not exceeding four times the first said number of phases, of means connecting said first windings with said alternating current circuit to cause the voltages of all said second windings to form a polyphase system of voltages having a number of phases greater than four times the first said number of phases.

22,076
PROCESS OF DECREASING REFLECTION OF LIGHT FROM SURFACES AND ARTICLES SO PRODUCED

Charles Hawley Cartwright, Corning, and Arthur Francis Turner, Rochester, N. Y., assignors to Research Corporation, New York, N. Y., a corporation of New York

Original No. 2,207,656, dated July 9, 1940, Serial No. 247,974, December 27, 1938. Application for reissue February 1, 1941, Serial No. 377,066

16 Claims. (Cl. 88—1)



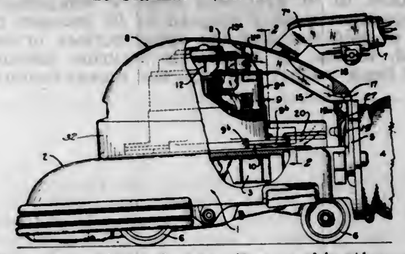
1. Method of treating a surface of a solid light-transmitting optical element to reduce the light-reflectance thereof, which comprises evaporating onto such surface a layer of a normally solid and stable, metallic fluoride, and controlling the evaporation so as to produce said layer with an optical thickness approximately one-fourth the wavelength of light the reflection of which from said surface is to be reduced and an effective index of refraction approaching the square root of that of the optical element.

22,077
SUCTION CLEANER

William H. Kitto, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Original No. 2,159,701, dated May 23, 1939, Serial No. 126,392, February 18, 1937. Application for reissue December 21, 1940, Serial No. 372,161

10 Claims. (Cl. 15—16)



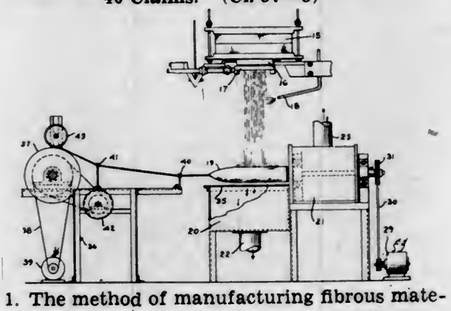
7. In a suction cleaner, the combination of a casing having a nozzle, motor-driven suction-creating means including a motor supported upon said casing and comprising a frame having an inlet opening at its base and an outlet opening adjacent its top for the circulation of ventilating air therethrough, air-moving means to draw air through said casing, a hood enclosing said motor and forming a chamber at its forward end adjacent said nozzle adapted to house a lamp, a lamp positioned in said chamber, said chamber being connected with the outlet opening from said motor frame and having an opening at its bottom for the discharge of the air to the atmosphere and for light rays from said lamp.

22,078
SLIVER FORMATION

Ralph C. Newman, Corning, N. Y., and John W. Romig, Rumford, R. I., assignors, by mesne assignments, to Owens-Corning Fiberglas Corporation, a corporation of Delaware

Original No. 2,202,118, dated May 28, 1940, Serial No. 160,908, August 25, 1937. Application for reissue May 27, 1941, Serial No. 395,472

40 Claims. (Cl. 57—5)

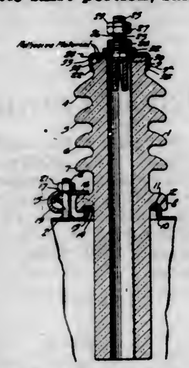


1. The method of manufacturing fibrous mate-

rials comprising the steps of preparing a quantity of air borne fibres, collecting said fibres about the outer surface of a rotating member to form a body of interlaced fibres, and withdrawing a portion of said fibres in the direction of the axis of rotation of said rotating member.

22,079
BUSHING
Leland J. Stevens, Baltimore, Md., assignor to Locke Insulator Corporation, Baltimore, Md., a corporation of Maryland
Original No. 2,230,194, dated January 28, 1941, Serial No. 293,649, September 6, 1939. Application for reissue August 29, 1941, Serial No. 408,906
6 Claims. (Cl. 174—167)

1. In combination with a bushing having a bulbous head, the lower inclined underlying surface of said head being roughened, of a metallic cap provided with a deformable skirt portion adapted to fit over said head, a compressible composition washer adapted to fit between the top of said cap and the upper surface of said head, means for adhesively securing together said head, washer and cap, said means comprising a lacquer, and means for connecting said cap and bushing, said last named means comprising the deformable skirt portion, said means serving

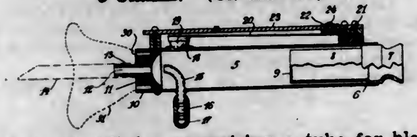


to maintain said washer under compression, said washer also serving to maintain direct contact between said deformable portion of said skirt and said inclined surface of said bushing.

PATENTS

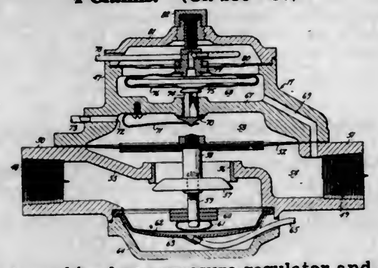
GRANTED APRIL 21, 1942

2,280,050
RESUSCITATOR
Frederick A. D. Alexander and Charles E. Martin, Albany, N. Y., assignors to The Foregger Company, Inc., a corporation of New York
Application February 12, 1942, Serial No. 430,562
5 Claims. (Cl. 128—29)



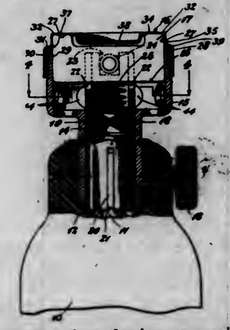
1. A resuscitator comprising a tube for blowing air into a patient's lungs, a mouth piece in the inlet end of said tube, a connection in the outlet end of the tube for attaching thereto a face mask, a filter holder in the tube between said mouth piece and said connection and a valve mechanism supported on said tube and operatively connected with the interior thereof for controlling the pressure of the air blown into the said face mask.

2,280,051
REFRIGERATION
Sven W. E. Andersson, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application October 19, 1937, Serial No. 169,789
4 Claims. (Cl. 236—80)



3. A combined gas pressure regulator and control device for controlling flow of gas and regulating the pressure of such gas delivered to a burner, said combined regulator and control device comprising a casing having an inlet and an outlet, a partition having an opening, a main valve for controlling the opening and hence the flow of gas between the inlet and the outlet, a diaphragm operatively connected to said main valve and at the discharge side of the opening, structure including said diaphragm forming a chamber at the opposite side of said diaphragm from said partition, said casing having a passage to divert to said chamber gas flowing between the inlet and outlet, an auxiliary valve to control flow of gas through said passage to said chamber, said casing having an opening to permit venting of gas from said chamber whereby the latter is substantially at atmospheric pressure when said auxiliary valve is closed, and means responsive to pressure for operating said auxiliary valve so the latter assumes any position between and including its open and closed positions depending upon the pressure to which said last means is subjected.

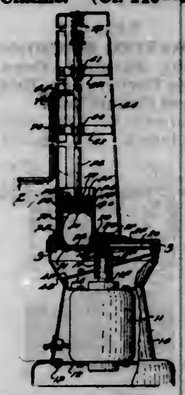
2,280,052
SHAVING MACHINE
Gustave F. Bahr, Fairfield, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut
Application February 26, 1938, Serial No. 192,765
6 Claims. (Cl. 30—43)



1. In a dry shaving device, a casing; a removable cutter head having radial hair-receiving apertures therein mounted on the casing; a drive shaft in the casing; a cutter member having a plurality of cutting surfaces; and means for coupling the cutter member to the drive shaft for rotation therewith, said means including a substantially cylindrical member, said cylindrical member having a socket at each end thereof, one socket receiving the end of the drive shaft, the socket formed at the opposite end having its wall formed with diametrically opposed slots for receiving the cutter member, a spring disposed within said last-named socket and acting against said cutter member and urging the shearing surfaces thereof into engagement with the undersurface of the cutter head to cooperate with the same to sever hairs extending through the hair-receiving apertures therein.

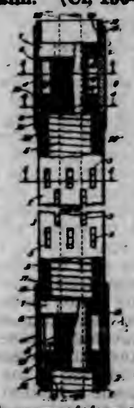
6. In a shaving machine comprising, a head having a series of radial, narrow and closely spaced hair-receiving slots extending therethrough; a rotatable blade having shearing surfaces in contact with the undersurface of the head and cooperating with the interior edges of the walls of the slots to shear off hair extending therethrough, said blade being in the form of a narrow strip disposed edgewise toward the underside of the head; a drive shaft; means for removably coupling said blade to said drive shaft for rotation therewith, said means comprising an open ended coupler of insulating material, one end of which sleeves said shaft, the opposite end having a diametrical slot for receiving and supporting said blade and maintaining the blade in the desired edgewise position relative to the head; means carried by said blade cooperable with means formed on said coupler for holding the blade against movement laterally of the shaft but permitting pivotal movement of the blade about an axis transverse to the shaft, said means permitting said blade a limited movement axially of said coupler; and means carried by the slotted end of said coupler for yieldingly urging the blade axially of the coupler whereby the shearing surfaces thereof are held yieldingly against the underside of the head.

2,280,053
MECHANISM FOR CUTTING POTATO CHIPS OR THE LIKE
Donald A. Barnes, Akron, Ohio
Application April 13, 1939, Serial No. 267,658
2 Claims. (Cl. 146—125)



1. A mechanism for cutting potato chips or the like, comprising a hopper for receiving a potato, means for advancing the potato through the hopper to a discharge point, a rotary disc disposed adjacent the discharge end of the hopper and having a corrugated cutter blade at one point, the parts being arranged so that the potato rests on the disc and is advanced to the disc each time a chip is cut from the potato by the blade, means for turning the hopper about an axis parallel to the rotary axis of the disc, means for holding the potato in the hopper so that it rotates therewith, and means for rotating the hopper and disc in such synchronized relation that the corrugations formed on one side of each slice removed from the potato extend transversely to the corrugations on the opposite side of the slice.

2,280,054
ADJUSTABLE LINER FOR WELL CASINGS
Julius S. Beck, Los Angeles, Calif.
Application February 14, 1939, Serial No. 256,299
1 Claim. (Cl. 166—8)



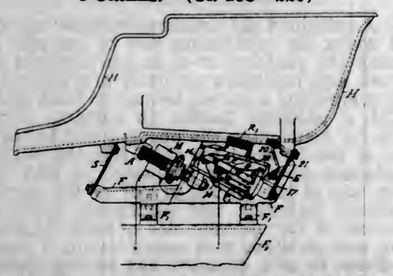
A liner for wells comprising a perforated liner tube, a coil spring mounted in said tube, a sleeve screw-seated in said liner tube so that one end of said sleeve engages one end of said spring for compressing or allowing said spring to expand, when said screw sleeve is turned in one direction or the other, means for limiting the outward movement of said sleeve with relation to said liner tube, when said sleeve is turned out of threaded engagement with said tube, and a clutch, which is brought into engagement for clutching said sleeve against rotation with relation to said tube, when said sleeve is turned out of threaded engagement with said tube and is limited in its outward movement with relation to said liner tube.

2,280,055
TRANSPARENT PLASTIC MATERIALS
Bjorn Andersen, Maplewood, N. J., assignor, by mesne assignments, to Celanese Corporation of America, a corporation of Delaware
Application January 28, 1939, Serial No. 253,251
6 Claims. (Cl. 2—14)



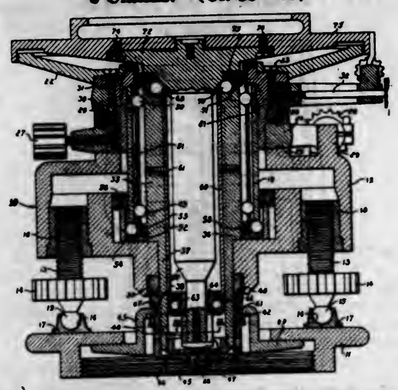
1. Gas masks, goggles and the like having eyepieces, adapted when in use to be exposed on the inner side to a moist warm atmosphere and on the outer side to a colder atmosphere without fogging or sweating, said eyepieces being made of sheet material containing an ester of cellulose, the inner surface of the eyepieces, which is exposed to said moist warm atmosphere, being saponified so that it is capable of absorbing moisture and the sheet material as a whole being resistant to the penetration of water and gases.

2,280,056
VIBRATOR MECHANISM FOR TOBACCO FEEDS AND THE LIKE
William C. Broekhuysen, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey
Application June 23, 1939, Serial No. 280,686
8 Claims. (Cl. 198—220)



1. An electric control switch comprising a support, a contact on said support, an elongated flat spring fixed to said support and extending thereover in engagement with a portion of said support, a second contact mounted upon said spring and located to engage said first-named contact, a device for tensioning said spring to maintain said contacts in engagement, and means for moving one end of said spring in a line substantially parallel with said support for alternately reducing and increasing the tension on said spring while said spring engaging said support is maintained flat therealong whereby it may move upon and along a part of said support with substantially a rolling action for making and breaking a circuit.

2,280,057
SUPPORT FOR SURVEYING INSTRUMENT TELESCOPES
Amber N. Brunson, Kansas City, Mo.
Application May 31, 1940, Serial No. 338,125
8 Claims. (Cl. 33—46)



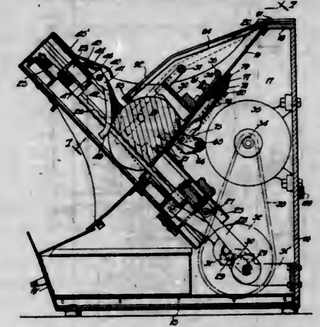
2. In a support for a surveying instrument telescope, a foot plate, a hollow post universally mounted on said foot plate, said post having a shoulder, a leveling head including a portion engaging said shoulder, threaded means on said post and engaging the head to urge the head against the shoulder, leveling screws engaging said foot plate and said head for leveling the latter, a shell about said post and spaced therefrom, ball bearings disposed between said shell and said post, a sleeve disposed between said shell and said post and having apertures receiving said ball bearings, an extending ring on said post adjacent the lower end of said shell, balls disposed between and engaging said ring and the lower end of said shell, a lower plate on said shell, a sleeve secured within said hollow post, a lower bearing within said post and engaging the lower end of said sleeve, a spindle engaging said lower bearing, an upper interior bearing recess in said post, balls in said recess, said spindle having an inclined bearing face engaging said last mentioned balls, and an upper plate mounted on said spindle adjacent said lower plate on said shell, said plates being mounted for relative indicating movement about the axis of said spindle.

2,280,058
CYANOETHYLATION OF CARBOCYCLIC COMPOUNDS
Herman A. Bruson, Philadelphia, Pa., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application May 2, 1941, Serial No. 391,501
11 Claims. (Cl. 260—465)

1. The process for introducing a $-CH_2CH_2CN$ group on a carbon atom of an unsaturated carbocyclic compound having a reactive hydrogen-bearing carbon atom between two ethenoid carbon atoms thereof, which comprises reacting said carbocyclic compound with acrylonitrile in the presence of an alkaline condensing agent.

8. As a new product, a carbocylic organic compound in which a β-cyanoethyl radical is attached to a carbon atom which is between two ethenoid carbon atoms in an unsaturated carbocycle.

2,280,059
BREAD SLICING MACHINE
Morris Brustowsky, Brooklyn, N. Y., assignor to U. S. Slicing Machine Company, La Porte, Ind., a corporation of Indiana
Application March 28, 1939, Serial No. 264,541
8 Claims. (Cl. 146—158)



1. A slicing machine comprising an inclined loaf supporting surface for supporting a loaf of bread to be sliced, slicing knives for severing the loaf into slices, a gravitationally movable element on the said loaf supporting surface for forcing the loaf through the slicing knives, a pivotally mounted member engageable with the loaf to support the loaf, a plurality of fingers arranged between the knives and engageable with the loaf during cutting operation, and means for returning the gravitationally movable member away from the knives.

2,280,060
CAKE-INHIBITING CATALYST
Robert E. Burk and Everett C. Hughes, Cleveland Heights, Ohio, assignors to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application March 21, 1939, Serial No. 263,198
6 Claims. (Cl. 252—232)

6. A process of making a catalyst which comprises co-precipitating gel type oxides of chromium and aluminum in the ratio of 8.5–49 mol per cent of chromium oxide to 42.5–88.2 mol per cent aluminum oxide and intimately associating therewith 2–15 mol per cent of copper oxide.

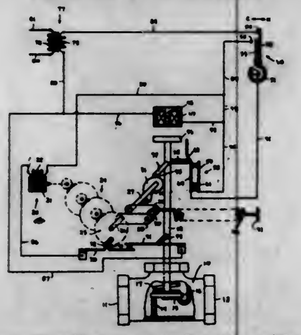
2,280,061
RADIANT MANTLE
William G. Cartter and Frank E. Wood, Monrovia, Calif.
Application January 29, 1940, Serial No. 316,116
7 Claims. (Cl. 158—113)



1. A mantle for radiant heaters comprising a a helically wound coil arranged in spiral shape, and means for holding the coil as thus arranged,

said means comprising a ribbon of metal wound spirally and between which the convolutions of the helically wound member are disposed.

2,280,062
MOTORIZED MECHANISM
Robert S. Craig, Robbinsdale, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application December 11, 1939, Serial No. 308,674
15 Claims. (Cl. 172—239)

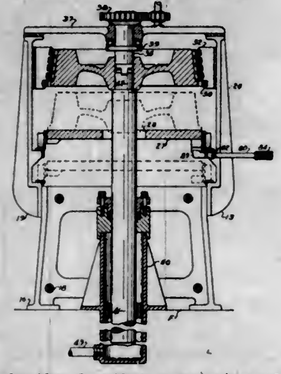


1. In combination, a member movable between a safe first position and an active second position, said member being biased to said safe first position, electrically operated holding means for retaining said member in said second position when an element associated with said member is moved into cooperative relation therewith, motor means including a uni-directional electric motor and a biasing means, means for transmitting motion from said motor means to said member, a main control switch, switching means operable by said motor means and said member, a source of power, means controlled by said main control switch for connecting said source of power to said electrically operated holding means, and means controlled by said switching means operative to control the energization of said electric motor in such a manner that said motor is effective to move said element into cooperative relation with said holding means and subsequently to drive said motion transmitting means back to its original position, said biasing means being so connected to said motion transmitting means that in the event of power failure during the movement of said motor it is effective to move said motion transmitting means to a position wherein said member is free to move by its bias to said first position.

2,280,063
METHOD AND AGENT FOR TREATING IRON AND STEEL
James H. Critchett, Douglaston, and Walter Crafts, Niagara Falls, N. Y., assignors to Electro Metallurgical Company, a corporation of West Virginia
No Drawing. Application October 23, 1940, Serial No. 362,408
2 Claims. (Cl. 75—58)

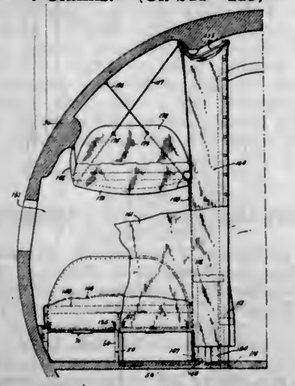
1. A method of treating molten ferrous metal which comprises adding thereto a grain-refining amount less than 1% of an addition agent consisting of 25% to 85% silicon; iron; at least one element of the group consisting of beryllium and boron, in an aggregate percentage at least 0.1% but substantially less than 3%; and at least one element selected from the group consisting of vanadium, columbium, tantalum, titanium, zirconium, cerium, hafnium, and thorium, the total percentage of the element or elements of the latter group being between 5% and 40%.

2,280,064
INDUCTIVE HEATING APPARATUS
Francis S. Denneen, Cleveland, and William C. Dunn, Shaker Heights, Ohio, assignors to The Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio
Application November 10, 1938, Serial No. 239,811
9 Claims. (Cl. 219—13)



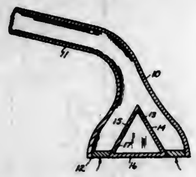
1. In inductive heating apparatus of the class described adapted to handle articles with a central bore, a foundation, an induction heating station, an induction coil at said station adapted to surround in closely spaced relation a part of an article to be heated, a fitting adapted to be rotated at said station, a support for an article to be heated at said station and means to move said support to engage the same with said fitting and rotate said article within the confines of said coil at said heating station.

2,280,065
VEHICLE
Trimble de Roode, New York, N. Y.
Application April 10, 1937, Serial No. 136,181
7 Claims. (Cl. 244—118)



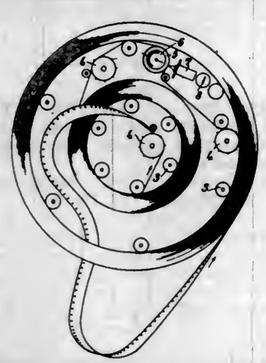
5. In a vehicle cabin, a double row of chairs in spaced file relationship on one side of an aisle, said chairs being spaced apart transversely of said file, means for supporting said chairs in said cabin to enable the aisle row of said chairs to be moved transversely to a position of substantial contact with the other row of said chairs to form a berth space and a dressing margin between said berth and the aisle, and partitioning means enclosing said berth and said dressing margin from said aisle.

2,280,066
DRAGHEAD FOR DREDGING APPARATUS
James A. Dorst, United States Army, Columbus, Ohio
Application December 3, 1940, Serial No. 368,346
6 Claims. (Cl. 37—58)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



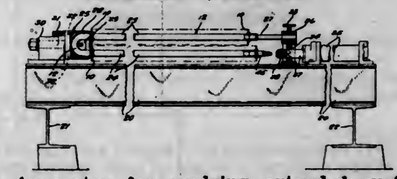
1. A draghead comprising a shell of inverted V-form cross-section and provided with a tubular stem for attachment to the intake pipe of a dredging apparatus, an internally arranged hollow block of triangular cross-section extending longitudinally within said shell and spaced from the internal surfaces thereof to form a passage to said tubular stem.

2,280,067
ENDLESS BAND OF FILM AND REPRODUCING APPARATUS FOR ITS USE
John Eggert, Leipzig, and Hans Friedrich Nissen, Dessau, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application August 31, 1938, Serial No. 227,788
In Germany September 1, 1937
1 Claim. (Cl. 88—18.7)



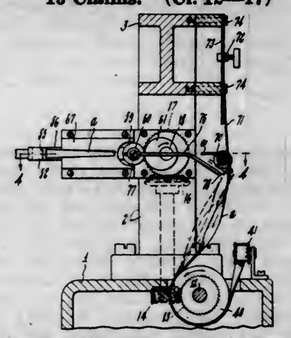
A reproducing apparatus for an endless non-twisted film, said apparatus including a scanning device for the film, means supporting the film in two spaced concentric coils each coil having the same number of turns and each being wound in the same direction, and means for guiding and moving the film from the inside of the outer coil to the outside of the inner coil and from the inside of the inner coil between the coils to the outside of the outer coil, said film passing through said scanning device as it is guided from one coil to the other coil.

2,280,068
APPARATUS FOR APPLYING EXTENDED SURFACE ELEMENTS TO THE TUBES OF HEAT EXCHANGE DEVICES
Martin Frisch, New York, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application December 20, 1938, Serial No. 246,833
10 Claims. (Cl. 29—84)



2. Apparatus for applying extended surface elements to U-bend tubes, comprising holding means to support and retain the U-bend end portion of one of said tubes, supporting means for the holding means, means for detachably connecting the holding means to the supporting means, a centering bar arranged to have one end inserted in the end of one leg of the tube, means for supporting the other end of the bar, and means operable to position the elements onto the other leg of the tube.

2,280,069
MACHINE FOR APPLYING FOLDED STRIP
Albert J. Germain and Andrew J. Germain, Haverhill, Mass.
Application September 4, 1941, Serial No. 409,560
13 Claims. (Cl. 12—17)

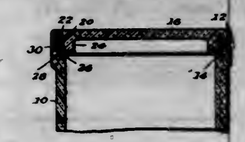


1. In combination, means for supporting and feeding continuously the marginal portion of a work blank, means for feeding a strip of sheet material having an adhesive surface, means for folding said strip longitudinally with the adhesive surface outwardly presented, and means for directing the strip so folded against the face of the blank adjacent to said feeding means and for pressing said strip against said blank.

2,280,070
CONTAINER AND CLOSURE THEREFOR
Gustave Glocker, Washington, D. C., assignor to Super-Seal Container Corporation, Washington, D. C., a corporation of Delaware
Application November 29, 1939, Serial No. 306,746
7 Claims. (Cl. 215—40)

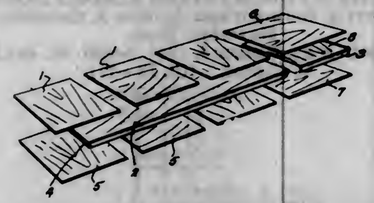
7. A container comprising a body having a mouth provided with a wall terminating in an annular shoulder disposed substantially perpendicularly to said body, a lid for said container having means adapted to seat the end of a seal-

ing member, a sealing member having substantially parallel surfaces defining inner and outer sides joined by walls defining the outer and inner ends thereof, said sealing member having its outer end seated by said sealing member seating means, a backing member depending from said lid adapted to support one side of said sealing member through a major portion of its area, the



diameter of the wall at said mouth and the diameter of the adjacent surface of said sealing member being sufficiently different to provide a substantial space between the adjacent surfaces thereof, and a leading edge at the inner end of said sealing member adapted to contact said annular shoulder in sealing engagement prior to contact of the surface thereof with the adjacent wall at said mouth during sealing operations.

2,280,071
LAMINATED FLOORING
George C. Hamilton, McComb, Miss.
Application November 27, 1937, Serial No. 176,903
3 Claims. (Cl. 20—8)

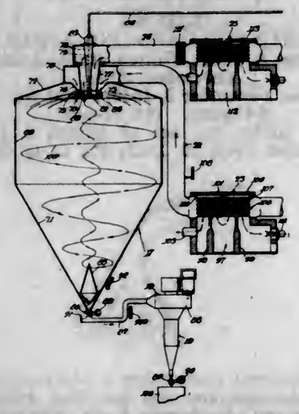


1. Laminated wooden flooring unit comprising an intermediate core ply, face and back plies cemented thereto, said face and back plies being divided into sections, the sections of each ply alternating; with the grain running perpendicularly, and corresponding sections of both the face and back plies covering congruent areas of the core ply and being placed with the grain parallel, whereby one alernate set of congruent sections inhibits longitudinal warping of the unit, while the other alternate set of congruent sections inhibits transverse warping resisting warping of the unit either transversely or longitudinally.

2,280,072
SUBSTITUTED PHTHALOCYANINES
Norman Hulton Haddock, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application May 17, 1940, Serial No. 335,871. In Great Britain May 25, 1939
5 Claims. (Cl. 260—314)

1. A process for the manufacture of tetraamino derivatives of phthalocyanine compounds selected from the group consisting of metal-free and metallic phthalocyanines, which comprises subjecting the corresponding tetranitro phthalocyanine compounds to reduction by means of a reducing agent selected from the group consisting of stannous chloride, sodium hydrosulfite, and the alkali sulfide class.

2,280,073
METHOD AND APPARATUS FOR DEHYDRATING LIQUID PRODUCTS
Joseph M. Hall, Chicago, Ill.
Application May 15, 1939, Serial No. 273,641
6 Claims. (Cl. 159—4)



5. A method of desiccating a liquid product in a continuous operation which comprises circulating the same stream of air continuously in a closed circuit through a third, a second and a first space in series in the order named, concentrating a liquid product by first bringing the same into heat exchange relation with said stream of air in said first space while said product is under subatmospheric pressure, then spraying the concentrate into said stream of air within said second space, then spraying the concentrate from the second space into the stream of air in said third space, causing said stream of air to move spirally within said third and then said second space at high velocity, and heating said stream of air just prior to each spraying process, the heating of said air being much greater immediately prior to the spraying operation in the second space than prior to the spraying operation in the third space.

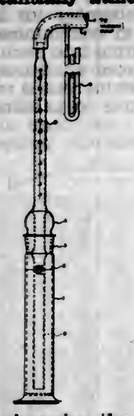
2,280,074
MANUFACTURE OF HOLLOW ARTICLES
Thomas M. Halsall, Latrobe, Pa., assignor to Toyad Corporation, Latrobe, Pa., a corporation of Pennsylvania
Application February 17, 1941, Serial No. 379,175
11 Claims. (Cl. 18—45)



5. A core for use in molding, comprising a hollow supporting member formed of frangible material enclosed in a rubber sack.

2,280,075
DETECTION OF GAS IN DRILLING FLUIDS
John T. Hayward, Tulsa, Okla.
Application February 23, 1938, Serial No. 191,895
5 Claims. (Cl. 73—51)

1. The method of detecting gas in well drilling mud containing gas introduced therein solely from the drill cuttings which comprises, subjecting said well drilling mud to a change in pressure from substantially atmospheric to sub-atmospheric, and observing the resulting change in volume thereof.

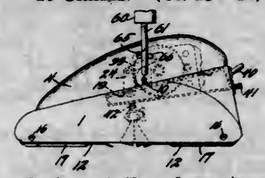


2,280,076
PIPE ANCHOR
Gird E. Mullinix, Southgate, Calif., assignor to Byron Jackson Co., Huntington Park, Calif., a corporation of Delaware
Application January 16, 1940, Serial No. 314,057
1 Claim. (Cl. 103—219)



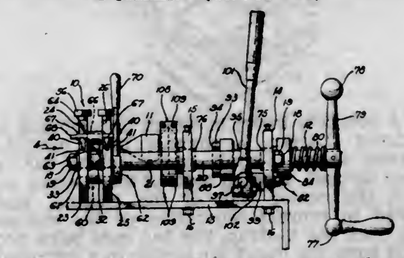
A pipe anchor comprising a body; pipe-gripping slips mounted thereon for movement relative thereto from contracted to expanded positions; slip-actuating means comprising an anchor cage slidably and rotatably mounted on said body and having an upper plane surface adapted to operatively engage said slips; friction means associated with said cage and frictionally resisting sliding and rotary movement of said cage relative to an extraneous object; and cooperating means on said body and cage for selectively either maintaining said cage out of engagement with said slips or permitting said upper plane surface on said cage to engage and actuate said slips into expanded positions, said last-named means comprising a first channel and a second channel in the outer wall of said body, said first channel opening downwardly and terminating in a shoulder at its upper end at a point below the lower extremities of said slips when the latter are in contracted position, said second channel also opening downwardly but extending upwardly a substantial distance above the upper end of said first channel, and a guide lug projecting inwardly from said anchor cage below said upper plane surface thereon, said guide lug being selectively engageable with said first channel or said second channel by axial movement of said body and rotation thereof in a single angular direction.

2,280,077
MACHINE FOR CLEANING AND TREATING FLOORS
Ira June Owen, Winnetka, Ill., assignor of one-third to Julius H. Kiel and one-third to Robert B. Kiel, Wilmette, Ill.
Application October 29, 1940, Serial No. 363,345
10 Claims. (Cl. 15—41)



2. In a device of the character described, a casing, a unitary motor driven floor treating mechanism, means for detachably mounting said unit in the casing, said unit comprising a mounting base, an electric motor mounted on said base, a shaft journaled in said base and extending transversely thereof with extensions on opposite sides of the base, a floor treating unit extending transversely of the casing for back and forth movement therein, means for yieldably mounting said floor treating unit on said shaft extensions in radially spaced relation to the shaft, and driving connections between said motor and said shaft for driving the floor treating unit in its back and forth movement.

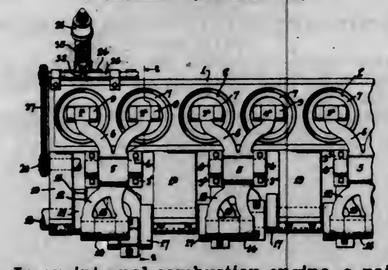
2,280,078
CLAMP FOR TUBING FLARING DEVICES
James M. Pettey, Los Angeles, Calif., assignor to Hughes Tool Company, Houston, Tex., a corporation of Delaware
Application March 13, 1940, Serial No. 323,771
4 Claims. (Cl. 153—81)



1. In a device for flaring the end of a tube carrying a connector sleeve, means to hold the tube for flaring and simultaneously to hold the sleeve on the tube against axial movement for backing the tube in the flaring operation, said holding means comprising: a base; two spaced pairs of jaws mounted on said base, one of said pairs of jaws being of a gripping diameter to clamp said sleeve, the other pair of jaws being of smaller gripping diameter to clamp said tube; a single arm pivoted to swing between said two pairs of jaws; means to place said arm in tension for creating gripping force in said pairs of jaws;

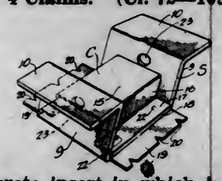
and means to transmit said force laterally in opposite directions from said arm to said jaws with an equalizing tendency.

2,280,079
INTERNAL COMBUSTION ENGINE
Merrill C. Pletcher, Elkhart, and Melvin A. Hochstetler, Nappanee, Ind.
Application January 6, 1941, Serial No. 373,370
6 Claims. (Cl. 123—51)



4. In an internal combustion engine, a pair of parallel cylinders open at each end, a pair of opposed pistons in each cylinder, piston rods for each piston having integral upwardly and downwardly extending stub shafts, the upper stub shaft being bifurcated to form a pair of arms pivotally connected at their upper ends to the piston rods, the lower stub shaft being bifurcated to form a pair of legs intergal with the downwardly extending stub shaft, a connecting rod actuated by said legs, a crank shaft actuated by said connecting rod, fuel being taken into one cylinder while the products of combustion are being exhausted from the other cylinder, and an injector for supplying a predetermined quantity of fuel under pressure, the pistons being arranged to move close to each other for compression ignition.

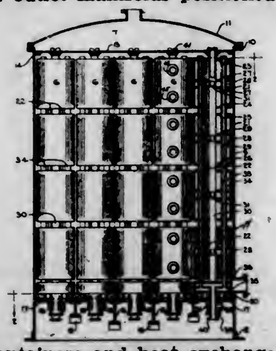
2,280,080
CONCRETE INSERT
Nicholas A. Predan, Chicago, Ill.
Application November 13, 1939, Serial No. 303,930
4 Claims. (Cl. 72—105)



1. A concrete insert in which is combined an apertured U-strap, a channel piece extended crosswise of the U-strap, and a locking bar extended through opposed walls of the U-strap adjacent the center wall of the channel piece adapted to prevent separation of the channel piece from the U-strap, the bar ends being protruded from the insert for keying in a surrounding plastic body.

2,280,081
CATALYTIC CONVERTER
Thomas B. Prickett, Woodbury, N. J., and Ernest S. Utterback, Oakmont, Pa., assignors, by direct and mesne assignments, to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
Application January 18, 1939, Serial No. 251,508
9 Claims. (Cl. 23—288)

1. In a converter having a sealed chamber for carrying out chemical reactions and a reactant fluid manifold exteriorly thereof, a plurality of containers in said chamber for holding contact material, conduits in communication with said manifold and extending into each container, said conduits having spaced apertures therein, other apertures in the container walls cooperating with said conduit apertures in passing fluid through the containers, heat exchange units comprising inlet and outlet manifolds positioned exteriorly

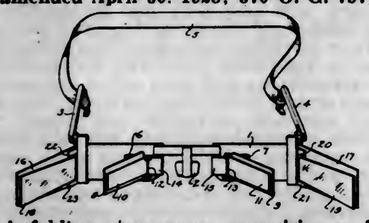


of the containers and heat exchange tubes extending through said containers and interconnecting said manifolds, means for loosely and removably mounting the containers and heat exchange units in spaced parallel relationship within the sealed chamber, and fluid conducting means in communication with the sealed chamber for cooperating with the reactant fluid manifold in supplying fluid to and removing fluid from the containers.

2,280,082
MANUFACTURE OF DRYING OILS
Remmet Priester, Deventer, Netherlands, assignor to Naamlooze Vennootschap Industrieele Maatschappij Voorheen Noury & Van Der Lande, Deventer, Netherlands, a company of the Netherlands
No Drawing. Application June 13, 1939, Serial No. 278,978. In Great Britain June 20, 1938
15 Claims. (Cl. 106—311)

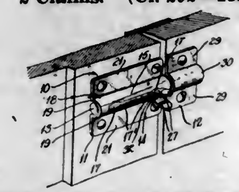
1. As a new article of manufacture an oil having improved drying properties and comprising Isano-oil and at least one oil selected from the group consisting of drying and semi-drying animal oils and drying and semi-drying vegetable oils.

2,280,083
FOLDING POCKET STEREOSCOPE
Daohe M. Reeves, Langley Field, Va.
Application December 2, 1939, Serial No. 307,291
3 Claims. (Cl. 88—29)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A folding stereoscope comprising a frame having spaced sight openings therein; a pair of mirrors freely pivotally connected to one side of said frame, each of said mirrors being positioned in the line of sight of one of said sight openings; stop means for operatively positioning said mirrors at an acute angle with respect to the line of sight through said openings; a second pair of mirrors, each of which is freely pivotally connected to an extreme end of said frame; and stop means on said one side of said frame for operatively positioning said mirrors in parallel relation with respect to said first pair of mirrors, said first pair of mirrors being rotatable into folded position against said one side of said frame and said other pair of mirrors being rotatable into folded position against the other side of said frame.

2,280,084
LATCH
Samuel Segal, Brooklyn, N. Y.
Application February 26, 1940, Serial No. 320,958
2 Claims. (Cl. 292—152)

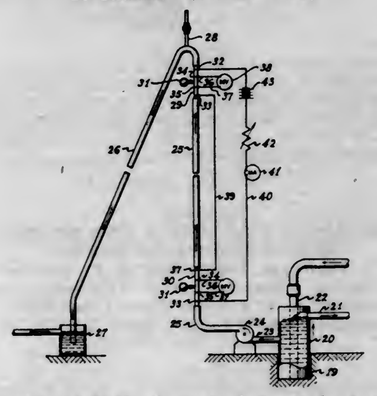


1. In combination, a guard having a bearing including a slot and spaced cutaway portions interrupting said slot, a bolt slidably guided by said bearing longitudinally of said guard, spaced detent means integral with and struck out of said guard adjacent said bearing to prevent displacement of said bolt transversely of said guard, a U-shaped manipulator interlocking with said bolt and having spaced wings disposed forwardly of said bearing and adapted to be arranged at least in part in one of said cutaway portions to prevent displacement of said bolt longitudinally of said guard and adapted upon manual pressure to be moved towards each other to be clear of said last mentioned cutaway portion to be projected into said slot and movable therealong until in alinement with another of said cutaway portions, and means upon removal of said pressure for automatically diverging said arms to permit at least a part of the latter to cooperate with said last mentioned cutaway portion to prevent longitudinal displacement of said bolt relative to said guard.

2,280,085
SUGAR FROM SORGHUM JUICES
Emil K. Ventre, Baton Rouge, La., and Howard S. Paine, Chevy Chase, Md., assignors to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and to his successors in office
No Drawing. Application March 24, 1941, Serial No. 384,962
2 Claims. (Cl. 127—46)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A process for the manufacture of sucrose and byproducts from the juices of saccharine sorghum, which comprises subjecting the cold raw juices of saccharine sorghum to the action of centrifugal force, whereby substantially 70 percent of the starch originally present is removed, thence adding an alkaline earth clarifying agent in an amount sufficient to yield a clarified juice having a pH ranging from 6.8 to 7.2 after clarification, and thence heating the juice at a temperature ranging from 100° C. to 107° C., thence cooling in vacuo the clarified juice to a temperature not exceeding 70° C., thence adding a starch converting enzyme, whereby during the evaporation of the juices to the density of a 32°-Baumé sirup the residual starch is substantially converted to sugars, thence subjecting the 32°-Baumé sirup to a temperature of boiling and thence settling and filtering, whereby the alkaline earth salts are precipitate and recovered as byproducts, the while recovering the sucrose.

2,280,086
GAS DETECTION
John T. Hayward, Tulsa, Okla.
Original application February 23, 1938, Serial No. 191,895. Divided and this application July 29, 1939, Serial No. 287,299
18 Claims. (Cl. 175—183)

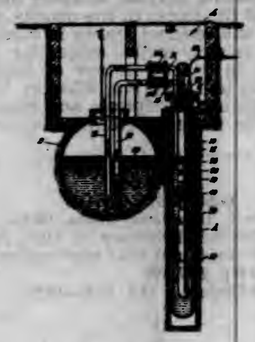


1. The method of measuring gas in gas-containing liquids which comprises, subjecting a gas-containing liquid to two different pressures, at least one of which is sub-atmospheric, measuring the electrical specific resistivities of said liquid at said pressures, and determining the gas content of said liquid from the difference in said specific resistivities.

2,280,087
PUMPING APPARATUS
Aladar Hollander and Vaino A. Hoover, Los Angeles, Calif., assignors to Byron Jackson Co., Huntington Park, Calif., a corporation of Delaware
Application April 24, 1940, Serial No. 331,344
11 Claims. (Cl. 103—5)

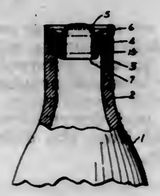
1. Pumping apparatus particularly adapted for handling volatile liquids comprising, in combination: a fluid-tight receiver having a pair of pump liquid passages through the wall thereof; pump means mounted in said receiver and comprising a pump casing having a fluid passage therethrough, one end of which is in communication with one of said pair of passages and the other end of which is in open communication with the interior of said receiver; a pumping element mounted in said pump casing; and a motor mounted in said receiver and comprising a rotor, a stator and a housing enclosing the rotor and stator and containing an internal liquid; shafting projecting through a wall of said housing and connecting said rotor in driving relation with said pumping element; a seal for sealing the

juncture of said shafting and said housing; a body of intermediate liquid in said receiver of greater specific gravity than the pump liquid and said internal liquid and immiscible with both



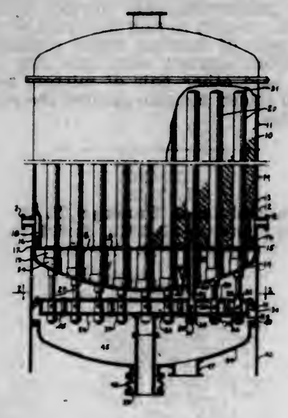
of said liquids, and means for establishing pressure transfer relation between a quiescent zone of said internal liquid and said intermediate liquid, and between a quiescent zone of said pump liquid and said intermediate liquid.

2,280,088
CONTAINER OR CAPSULE FOR HIGHLY COMPRESSED FLUID MEDIA
John A. Honegger, Bloomfield, N. J., assignor to Specialties Manufacturing Company, Inc., Bloomfield, N. J., a corporation of Delaware
Application March 1, 1938, Serial No. 193,253
6 Claims. (Cl. 220—3)



6. In a container for holding a highly compressed fluid medium having a pliable neck formed with an annular recess and an inwardly projecting peripheral shoulder formed thereby, an annular sealing member disposed in said recess above said shoulder and having a central opening therein substantially the same as the shoulder, an imperforate closure member for said container disposed within said neck centrally of the opening and having a central perforable portion, a flange-like peripheral formation on said closure member overlying said sealing member adapted to contact and to retain said sealing member from above, and skirt means integral with the closure member and extending downwardly from the central portion thereof and within the opening of the sealing member to a point closely adjacent the inner edge of the shoulder to laterally retain said sealing member, a portion of said neck being bent inwardly to engage said flange which in coaction with the shoulder, the neck and said skirt, forms compressive confining means for said sealing member, thereby effecting a tight seal.

2,280,089
CATALETIC CONVERTER AND HEAT EXCHANGE UNIT THEREFOR
Eugène J. Houdry, Ardmore, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
Application June 10, 1938, Serial No. 212,864
7 Claims. (Cl. 23—288)

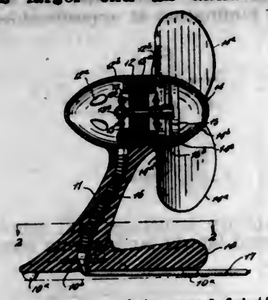


1. Apparatus for carrying out reactions comprising a converter casing having side and end walls providing a chamber, a partition positioned within the chamber forming a reaction chamber and fluid manifolding chamber, a plurality of tubes in said reaction chamber each having an open end extending through the partition and one end wall and closed ends within the reaction chamber, said open ends being secured to said end wall, in combination with a heat exchange unit including a fluid manifold positioned exteriorly of said end wall having opposed upper and lower walls, apertures having inwardly diverging sides in the upper wall of said manifold and a plurality of tubes each having an end extending through said apertures in communication with said manifold and the other end positioned within the first mentioned tubes, bearing surfaces on the tubes for cooperating with the diverging sides of the apertures and means in the other wall of said manifold for placing the bearing surfaces under compression.

7. A heat exchange unit comprising a fluid manifolding chamber having opposed upper and lower walls, apertures having inwardly diverging sides in the upper wall and a plurality of heat exchange tubes each having an end extending through said apertures into the chamber, apertures in the tubes adjacent the ends permitting communication with said chamber, bearing surfaces on the tubes for cooperating with the diverging sides of the apertures and screw means in the other wall and placing the bearing surfaces in compression.

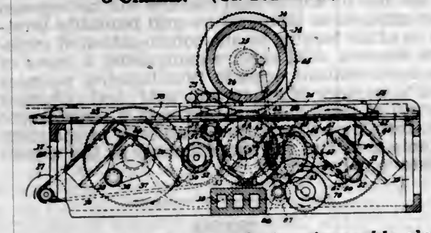
2,280,090
FAN
Marion W. Humphreys, Mansfield, Ohio
Application November 16, 1938, Serial No. 240,862
4 Claims. (Cl. 170—173)

1. A fan comprising a motor having a bladerotating element and a blade unit comprising a plurality of blades and a tapered hollow bladecarrier molded in the form of a unit from flexible material, the hollow blade-carrier having adjacent its larger end an annularly grooved



thickened portion receiving and frictionally held to the rotating element.

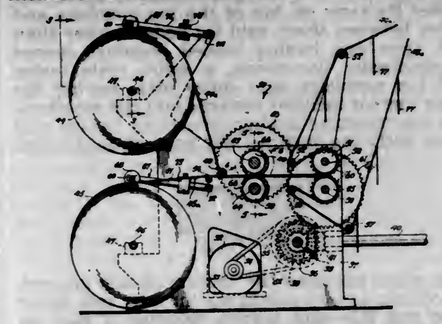
2,280,091
PRESS BED DRIVE
Samuel A. Huffman, Avalon, Pa., assignor to Miller Printing Machinery Co., Pittsburgh, Pa., a corporation of Pennsylvania
Application August 26, 1939, Serial No. 292,105
8 Claims. (Cl. 101—282)



1. In a press, a frame, a bed reciprocable along tracks on said frame, reversing shafts journaled in said frame adjacent the ends thereof, a hanger depending from said bed having inclined plane bearing surfaces extending laterally therefrom, cranks on said shafts having rollers adapted to engage said surfaces respectively when the bed nears the ends of its stroke, gears on said shafts, a main drive shaft deriving its power from outside the press having a pinion thereon meshing with one of said gears, an intermediate shaft having a gear thereon meshing with said pinion and the other of said gears, and a cylinder journaled in said frame for cooperation with said bed, said cylinder being driven directly from said intermediate shaft.

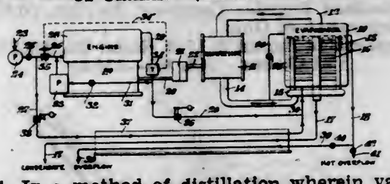
2,280,092
MACHINE FOR AND METHOD OF FORMING FOLDED TOILET SEAT COVERS
Charles E. Kirch, Buffalo, and Charles G. MacLeiland and Frank M. Becker, Alden, N. Y., assignors to Kirch-Trumbull Corporation, Alden, N. Y., a corporation of New York
Application September 15, 1939, Serial No. 295,070
17 Claims. (Cl. 93—1)

1. A machine for forming interfolded toilet seat covers from a strip of stock including means for moving said strip lengthwise, means for forming openings in said strip at spaced intervals, means for pleating said strip to form lengthwise extending folds, means for cutting the pleated strip crosswise between said openings to divide it into sections, means for folding said sections crosswise to double them, means for folding the doubled sections crosswise and means for feeding said doubled sections to said last named means in such a manner that the leading end



of each is folded between the trailing end and the adjacent fold of the preceding section.

2,280,093
DISTILLATION METHOD AND APPARATUS
Robert V. Kleinschmidt, Stoneham, Mass., assignor to Arthur D. Little, Incorporated, Cambridge, Mass., a corporation of Massachusetts
Application May 1, 1941, Serial No. 391,282
31 Claims. (Cl. 202—75)



31. In a method of distillation wherein vapor is evolved from a solution in a vaporization zone, the evolved vapor is compressed to a pressure at which the condensing temperature is substantially above the boiling point of the solution, compressed vapor is condensed in out-of-contact heat exchange relation with said solution in said vaporization zone, hot condensate is withdrawn from said vaporization zone and fresh solution to be distilled is introduced into said vaporization zone, the steps comprising supplying power to actuate said compressor by an internal combustion engine, transferring substantially all of the waste heat required to maintain said engine cooled to a predetermined operating temperature to solution being introduced into said vaporization zone to preheat said solution, supplying heat to solution being introduced into said vaporization zone by out-of-contact counterflow heat exchange with hot condensate condensed in said vaporization zone, and withdrawing hot concentrated solution from the system, the sensible heat withdrawn from the system in said hot condensate being approximately equal to excess heat supplied to the system by said waste heat transferred from said internal combustion engine to solution being introduced into said vaporization zone.

2,280,094
TABLE TOP CONSTRUCTION
Sern Madsen, Clinton, Iowa, assignor to Curtis Companies Incorporated, Clinton, Iowa, a corporation of Iowa
Application April 10, 1939, Serial No. 266,974
2 Claims. (Cl. 311—4)

1. In a table top, a plurality of top members

and means for splicing the ends of said top members together comprising a T-shaped splice bar having its arms on top of the top members and its leg between them, said leg being thicker than said arms and having tapped openings spaced longitudinally therealong, a splice plate under said top members, said splice plate having the edges thereof inclined towards said top members, said top members having grooves to receive said edges with the inclined surfaces of said splice

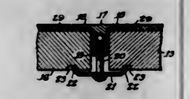


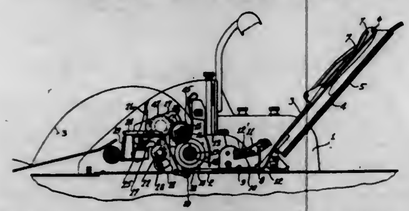
plate edges engaging the corners of said grooves, and clamp screws extending through said splice plate and into said tapped openings of said leg of said splice bar to draw the splice bar and the splice plate toward each other and thereby to clamp the adjacent edges of said top members between them and to cause said inclined surfaces of said splice plate to engage said corners of said grooves and thereby draw said top members toward each other.

2,280,095

IMPRINTING APPARATUS

Albert W. Metzner, Dayton, Ohio, assignor to The Standard Register Company, Dayton, Ohio, a corporation of Ohio

Application August 8, 1940, Serial No. 351,879
21 Claims. (Cl. 101—134.5)



1. In a transfer posting machine wherein a continuous record strip is advanced step by step past an imprinting position, a pin wheel feeding device engageable in marginally punched holes in the strip for advancing the strip through a step-by-step movement, a frictional roller disposed in concentric relation with the pin wheel, frictional pressure rollers cooperative with the first mentioned frictional roller for advancing record material past the imprinting position independently of the pin wheel, electrically driven actuating means common to the pin wheel and frictional feed roller, throwout means operative to simultaneously adjust the coacting frictional rollers to inoperative relation and disable the actuating means and throwout limit means for maintaining the actuating means in operative condition during non-operative periods of the frictional feeding rollers.

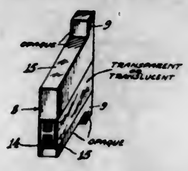
2,280,096

PHOTOTYPOGRAPHIC TYPE BODY

George L. Morrison, Evanston, Ill.

Application June 3, 1939, Serial No. 277,281
15 Claims. (Cl. 95—85)

11. A light-pervious type body suitable for use in either contact or projection photo printing comprising a central lamination of light-pervious material and lateral laminations of opaque material, said lateral laminations being provided as parts separate from each other and secured to said central lamination at opposite sides thereof



to form a unitary structure, said central lamination and said lateral laminations being of the same width.

2,280,097

WINDOW AND THE LIKE

William Henry Moss, London, England, assignor to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application January 31, 1939, Serial No. 253,811. In Great Britain February 8, 1938
12 Claims. (Cl. 2—14)

1. A transparent window closure for an article in the use of which said closure will be exposed to conditions of temperature and humidity tending to cause fogging by the condensation of moisture thereon, said closure comprising a layer of a water-resistant organic film-forming polymer that is an ester of an organic acid, and adherent thereto at least one outer layer of a hydrotropic film-forming polymer that is an ester of the same organic acid and the same alcohol as the water-resistant polymer.

2,280,098

SYNTHETIC MATERIAL

William Henry Moss, London, England, assignor to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application August 18, 1938, Serial No. 225,570. In Great Britain September 14, 1937
9 Claims. (Cl. 2—14)

1. An article having a window, and such that when in use said window is liable to be exposed on one side to a moist warm atmosphere and on the other side to a colder atmosphere, said window having a transparent closure comprising a sheet at least one surface of which is composed largely of an organic derivative of cellulose which is insoluble in water but soluble in a liquid mixture containing a neutral organic liquid and at least the same amount of water.

2,280,099

SHOE HEEL AND METHOD OF MAKING SAME

Horace A. Sheesley, Portland, Maine, assignor to Tufide Products Corporation, Portland, Maine, a corporation of Maine

No Drawing. Application July 1, 1937, Serial No. 151,450
5 Claims. (Cl. 36—34)

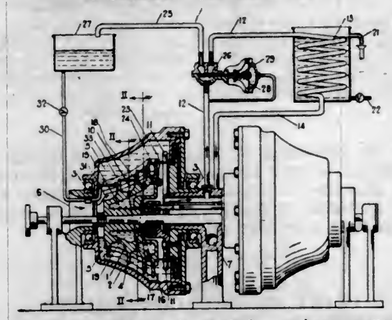
1. A molded shoe heel characterized by lightness in weight and high strength in all directions comprising, a major proportion of a base material including compressed wood flour homogeneously mixed with animal vegetable fiber, and a minor proportion of a binder material homogeneously mixed with said base material, said binder material consisting of dehydrated latex and animal glue.

2,280,100

FLUID PRESSURE APPARATUS

Francis D. Singleton, Newark, Del., assignor of one-half to Fred C. Mitchell, Wilmington, Del.

Application November 3, 1939, Serial No. 302,708
3 Claims. (Cl. 230—79)



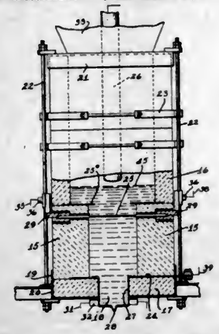
1. An apparatus adapted for rotary compression comprising a freely revolvable hollow casing containing a body of liquid, with inlet and outlet means, a revolvable rotor within and eccentric to the axis of the casing and having the form of a conical screw, the helical convolutions on the rotor forming, between the convolutions, a U-shaped helical trough progressively decreasing in pitch as the rotor increases in diameter, at least one outlet from the hollow casing leading to a hollow annular space within the rotor, ports leading from the hollow annular space within the rotor to the U-shaped trough formed by the helical convolutions, a series of vanes affixed to the outer periphery of the rotor convolutions with their side of greatest dimension presented to the direction of rotation, and a valve governing the outlet for compressed fluid from the high pressure end of the rotor and adapted to allow forward but to prevent backward flow of compressed fluid through the rotor.

2,280,101

ELECTRIC FURNACE AND MELTING METHOD

Games Slayter, Flavius W. Atkinson, Ed Fletcher, and Harry V. Smith, Newark, Ohio, assignors to Owens-Corning Fiberglas Corporation, Toledo, Ohio, a corporation of Delaware

Application March 29, 1940, Serial No. 326,714
7 Claims. (Cl. 13—6)



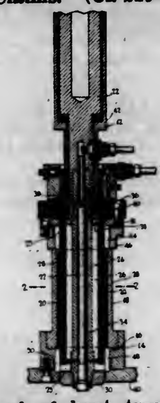
1. The method of melting and refining glass or other refractory material which when unmelted is a nonconductor and when molten is a conductor of electric current, which method comprises passing an electric current through a circuit including an upper and an intermediate electrode, maintaining an electric arc in said circuit between said electrodes, enveloping the upper electrode in the raw material and feeding the raw material downwardly while surrounding the electrode, into the zone of said arc and thereby heating the material by heat generated in said arc, to a temperature at which it will conduct electric current, passing an electric current through a second circuit including said intermediate electrode and a bottom electrode spaced therebelow, with the heated material forming a resistor included in the circuit between said intermediate and bottom electrode, and thereby further heating and refining the material by the heat generated therein by the current passing therethrough.

2,280,102

HEAT TREATMENT

Howard E. Somes, Grosse Pointe Park, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan

Application June 8, 1939, Serial No. 277,995
21 Claims. (Cl. 219—13)



1. The method of heat treating by electromagnetic induction the internal surface of a thin hollow cylindrical member which comprises closely embracing said member in a tubular jacket of magnetic material, including said member and jacket as a part of a magnetic circuit, inducing a heat treating current in said member, and removing the jacket from the member thereafter.

3. Apparatus for heat treating a thin cylindrical sleeve internally, comprising an inducing coil lying within a cylindrical surface substantially that of the internal bore of said sleeve, a magnetic core for said coil extending thru the coil and outwardly to said surface at either end thereof, a magnetic circuit for said sleeve external thereto closely embracing said sleeve on the radial outer side to support the same and extending around the ends of said sleeve and radially inward substantially to said cylindrical surface, said core and said circuit being substantially circularly continuous.

2,280,103

ROLLED COPPER ALLOY ARTICLE

Carl E. Swartz, Cleveland Heights, and Donald L. V. Schwartz, Cleveland, Ohio, assignors to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a corporation of Ohio

Application December 9, 1939, Serial No. 308,444
8 Claims. (Cl. 148—32)

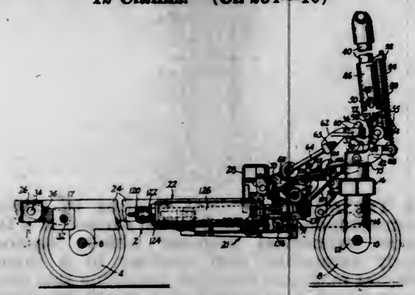
1. A rolled copper alloy article resulting from

a product which has been unidirectionally cooled during solidification and reduced at least 5% of its original thickness containing from about 5% to about 25% of lead substantially uniformly



distributed throughout a matrix and elongated in a direction parallel to the direction of rolling, the article being substantially free from detrimental lead stringers.

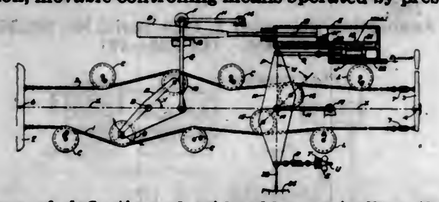
2,280,104
LIFT TRUCK
William Stuebing, Jr., Cincinnati, Ohio, assignor to Lift Trucks Incorporated, Cincinnati, Ohio, a corporation of Ohio
Application December 14, 1940, Serial No. 370,090
12 Claims. (Cl. 254—10)



1. In lift truck apparatus of the class described, the combination of: a base frame; a lifting frame mounted upon said base frame to be moved upwardly to thereby lift the load; operating means to manually raise said lifting frame and to hold said lifting frame in its raised position; releasing means to render said operating means ineffective and operable when said lifting frame is raised to thereby permit the return of said lifting frame to its lower position; and means operated by the movement of said lifting frame and effective when said lifting frame reaches its lower position to render said releasing means ineffective.

2,280,105
CABLE TENSION GOVERNOR
John Sturgess, Glendale, Calif., assignor to Sturgess, Inc., Los Angeles, Calif., a corporation of California
Application January 13, 1940, Serial No. 313,262
17 Claims. (Cl. 74—501)

1. An automatic cable tensioning apparatus comprising means movable in opposite directions for increasing or decreasing the tension in a pair of tensioned control cables depending on the direction of movement, a double acting power actuator arranged for operating said movable means in one direction for increasing the cable tension and in opposite direction for decreasing the tension, movable controlling means operated by pressure of deflection of said cables controlling the actuation of said actuator, and means balancing said movable controlling means in position with said actuator stopped when the tension of said cables is at a predetermined point.

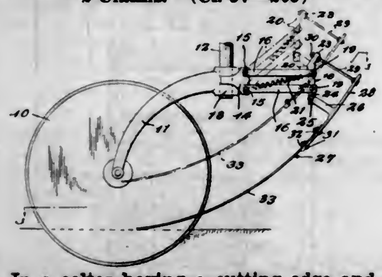


2,280,106
CABLE TENSION CONTROLLER
John Sturgess, Glendale, Calif., assignor to Sturgess, Inc., Los Angeles, Calif., a corporation of California
Application December 24, 1940, Serial No. 371,546
13 Claims. (Cl. 74—501)



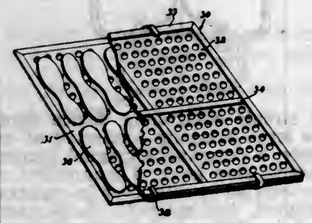
1. A tension controller for control cables comprising two adjacent members, means mounting said members for relative movement, means adapted for securing the ends of a pair of cables to one of said members, spring means interposed between said members for balancing the pull of said cables, a plurality of interleaved plates forming a normally released friction clutching means for locking said members against relative movement, and means actuated by unequal pull on said cables throwing said friction clutching means into engagement.

2,280,107
ATTACHMENT FOR ROLLING COLTERS
William Stute, Varna, Ill.
Application March 20, 1941, Serial No. 384,378
2 Claims. (Cl. 97—209)



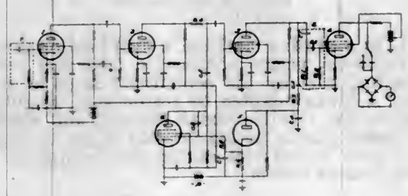
1. In a colter having a cutting edge and supporting means for the colter, pivoted spaced parallel arms on the supporting means extending forwardly of the colter, a head member mounted between the arms at their forward ends, spring means connected between a low portion on the supporting means and a high point on the head to hold the head and arms in normal operative position, stop means between the arms and head for limiting the action of the spring, a pair of sweep arms pivotally connected to the head, and adjusting means between the sweep arms and the head.

2,280,108
SOLE AND METHOD OF MAKING
Edward Deming Van Tassel, Jr., Newtonville, Mass., assignor, by direct and mesne assignments, to Abraham S. Guterman, Brookline, Mass., as trustee
Application October 10, 1939, Serial No. 298,773
15 Claims. (Cl. 149—5)



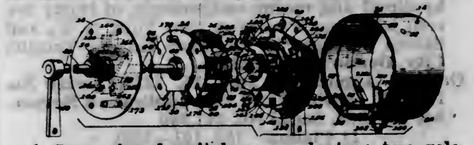
1. A method of preparing soles which consists in selecting and cutting sole pieces of the desired size and configuration from vegetable-tanned leather, placing and holding a plurality of said pieces as a unit in flat position with both faces of the pieces exposed, and treating said pieces as a unit with a series of solutions including at least one chrome tan solution while holding them in said position.

2,280,109
BEAT FREQUENCY ALTIMETER
Arthur A. Varela, Washington, D. C.
Application April 7, 1941, Serial No. 387,136
6 Claims. (Cl. 250—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



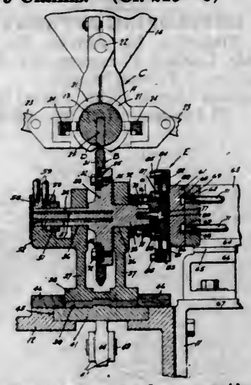
1. In a beat frequency altimeter comprising a multi-stage amplifier for amplifying a beat frequency signal and means for measuring the frequency of said signal, each of said amplifier stages having an output circuit; a high pass filter connecting the output of said amplifier to said measuring means, a low pass filter, a rectifier, means impressing the output of said amplifier upon said rectifier through said low pass filter, a thermionic tube comprising a plate and a grid, said plate being connected to said output circuit of one of said amplifier stages, biasing means normally blocking said tube, means impressing the output of said rectifier upon the grid to overcome said biasing means and means providing high pass coupling between said plate and said grid.

2,280,110
DIRECTION SIGNAL SWITCH
Paul Welen, Marietta, Pa., assignor of one-half to Henry S. Rich, Marietta, Pa.
Application November 22, 1939, Serial No. 305,637
9 Claims. (Cl. 200—59)



1. In a signal switch, a conductor; two relatively movable members; one member carrying contacts yieldingly urged into engagement with said conductor and automatically locked in a retracted position therefrom regardless of the position of the other member and said other member carrying said conductor; means unlocking said contacts, respectively, on manual movement of only said one member from a neutral position into opposite positions, respectively, relative to the other member in a neutral position; means returning said one member to its neutral position on movement of said other member from its neutral position in either of two opposite directions; and means forcing any conductor-engaging contact into its retracted position on return of said one or said other member into its respective neutral position, depending on the direction of the preceding movement of said other member from its neutral position.

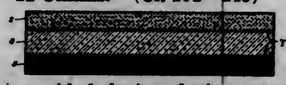
2,280,111
ELECTRIC WELDING
Magnus E. Widell, Cincinnati, Ohio, assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application June 30, 1939, Serial No. 282,279
9 Claims. (Cl. 219—6)



1. An electric welding and connecting unit for electrodes of welding apparatus, comprising in combination, a frame element, an electrode having bodily longitudinal movement relative to and along said frame element during a welding operation, flexible instrumentalities carried by said electrode, said flexible instrumentalities including a member having sliding contact longitudinally of said frame element while also having rotation on its own axis, for producing a uniform electric

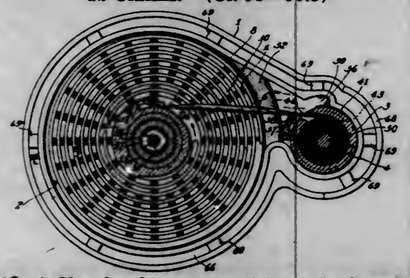
connection therebetween and providing for conduction of the welding current to and from said electrode for the welding operation, and means for moving said electrode relative to and longitudinally of said frame element for said welding operation.

2,280,112
POLYCHROMATIC PAD FOR USE IN COLOR PHOTOGRAPHY
Francisco G. Yanes, New York, N. Y., assignor, by direct and mesne assignments, of thirty per cent to Tomas Pacanins, New York, N. Y., and fifteen per cent to Florencio Gomez, Trujillo City, Dominican Republic
Original application July 15, 1937, Serial No. 153,696. Divided and this application November 23, 1938, Serial No. 241,986
11 Claims. (Cl. 101—149)



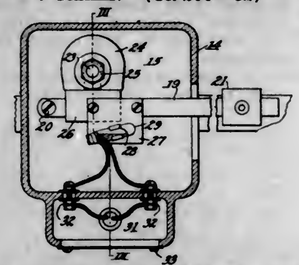
1. In a two sided dyeing device susceptible of being wetted for the purpose of simultaneously coloring by contact two separate, dye-receptive photographic records, or to produce a color picture in the same device by discharging the negative values from both sides, the combination of a sheet-like transparent support and on each side of said support one insensitive to light continuous coating of substantially plain gelatine carrying in dry condition and evenly distributed actually soluble orange dye matter on one side and, on the other side, actually soluble blue-green dye matter; said dye matter of complementary color transmissions, said dye matter pertaining to the kind of migratory pigments known to wander from a film of damp gelatine into another, said dye-carrying coatings each having one face towards the respective side of the support and the other face exposed to the air, whereby it is possible to secure a direct contact between the dye carrying coatings and separate dye-receptive photographic records.

2,280,113
DEVELOPING APPARATUS
Lewis D. Andrews, St. Marys, Pa., assignor to Stackpole Carbon Company, St. Marys, Pa., a corporation of Pennsylvania
Application May 6, 1940, Serial No. 333,467
12 Claims. (Cl. 95—90.5)



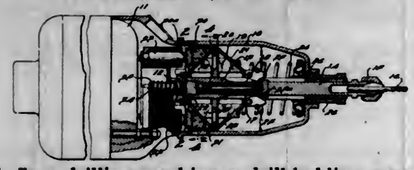
12. A film developer comprising a tank, a film-cartridge receiving member rotatably mounted within the tank and provided in its side wall with a film receiving slot, a reel rotatably mounted in the tank for receiving film from said slot, and a film-severing member mounted in the tank adjacent said slot for cutting the film from the cartridge when said member is rotated to press the film against said severing member.

2,280,114
SAFETY SWITCH FOR WELL PUMPING UNITS
Clifford R. Athy, Columbus, Ohio, assignor to International-Stacey Corporation, Columbus, Ohio, a corporation of Ohio
Application January 19, 1939, Serial No. 251,782
7 Claims. (Cl. 200—52)



1. A circuit controlling device comprising a body, a lever pivotally connected at one end to said body, a permanent magnet secured to said body above said lever, a magnetism responsive member carried by said lever in registration with said magnet, the magnetic force exerted upon said member being sufficient under normal conditions to resist movement of said lever in response to gravitational force, switch means carried by said lever and operated by movement thereof in response to gravitational force to control current flow through a circuit in which the switch is disposed, and a balance weight positioned for longitudinal adjustment on said lever to vary the effectiveness of said magnet.

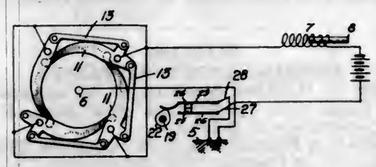
2,280,115
DRILLING MACHINE
Claude E. Broders and Victor Gauvreau, Detroit, Mich.; said Broders assignor to said Gauvreau
Application July 21, 1939, Serial No. 285,758
10 Claims. (Cl. 77—33)



1. In a drilling machine, a drill holding means, a rotatable weight adapted to feed said means longitudinally by the centrifugal force of rotation, a brake adapted to act on said weights to reduce the rotative speed thereof, and electromagnetic means acting on said brake to render the same inoperative during the feeding of the drill holding means.

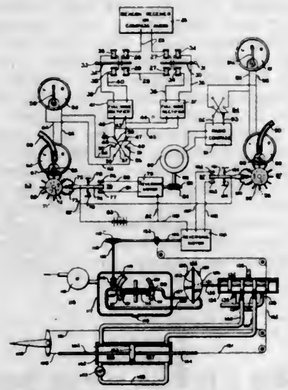
2,280,116
AUTOMATIC MEANS FOR CAGING GYROSCOPES
Bert G. Carlson, Freeport, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application March 3, 1939, Serial No. 259,590
5 Claims. (Cl. 244—79)

1. The combination with a gyro-vertical having a rotor and rotor bearing frame and an outer support mounting said frame for freedom about two mutually perpendicular axes, of a gravitationally responsive means for normally maintaining the gyroscope vertical, an automatically operated cage for centralizing said frame with respect to the support, and a controller for said cage



brought into action by a predetermined relative tilt of said frame and said support.

2,280,117
DRIFT CORRECTION MODULATED BEAM
Carl J. Crane and Raymond K. Stout, Dayton, Ohio
Application October 18, 1939, Serial No. 300,072
12 Claims. (Cl. 172—282)

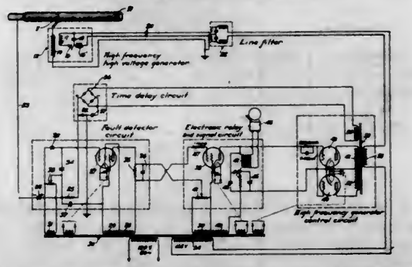


1. Apparatus adapted for use on a navigable vehicle comprising an energy collecting means having a normal angular relation to a source of radiated energy and to the longitudinal axis of the vehicle, means for automatically keeping the vehicle upon a predetermined heading, means for producing an impulse in response to the energy collected by said collecting means, means for adjusting said heading in response to said impulse whereby said normal angular relation is maintained, and means operable independently of the energy collected by said collecting means and responsive to deviations of the vehicle from a predetermined course for angularly displacing said collecting means from its normal relationship to the longitudinal axis of the vehicle.

2,280,118
PROCESS OF SULPHONATION
Bernard A. Dombrow, New York, N. Y., assignor to National Oil Products Company, Harrison, N. J., a corporation of New Jersey
No Drawing. Application February 10, 1938, Serial No. 189,892
14 Claims. (Cl. 260—400)

1. In a process for increasing the SO_3 content of sulphonated naturally occurring fatty materials, the step which comprises subjecting the sulphonated material to extraction with an organic, water-miscible solvent, in an amount at least equal to the volume of the sulphonated fatty material.

2,280,119
METHOD AND APPARATUS FOR ELECTRICALLY TESTING PROTECTIVE COATINGS AND THE LIKE
Lawrence J. Gorman, Bogota, N. J., and Richard L. Morris, Richmond Hill, N. Y., assignors to Consolidated Edison Company of New York, Inc., New York, N. Y., a corporation of New York
Application September 21, 1940, Serial No. 357,706
12 Claims. (Cl. 175—183)



1. In the method of testing non-conductive material for the location of flaws by subjecting same to a high voltage discharge, the steps which comprise utilizing current resulting from the discharge at a flaw, to automatically check or discontinue the discharge at such flaw for a short interval, and also utilizing said current to establish another current effective to prolong such interval for substantially a predetermined short time after the checking or discontinuance of the discharge.

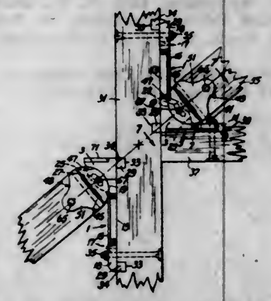
4. Apparatus for testing non-conductive material for locating flaws therein, including means for generating high voltage, high frequency current and for subjecting the area under test to a discharge therefrom, means for detecting current discharged through a flaw, means utilizing said current for controlling the operation of said generating means, to automatically suppress the discharge before substantial injury of the material at the flaw, and means actuated by said current for prolonging such suppression for a predetermined period after initial suppression of the discharge.

2,280,120
COAT
William Graber, Brooklyn, N. Y.
Application August 1, 1939, Serial No. 287,682
1 Claim. (Cl. 2—98)



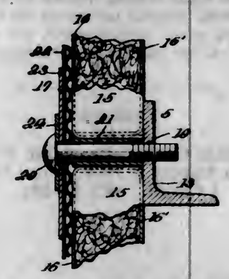
A woman's coat comprising a strip folded double and forming an upright collar permanently secured to the neck and including around its rear part an integral fold forming a flap joining the collar at its outside bottom edge and positionable either up or down, a "Zipper" tape secured about the said rear part below the base of and underneath said flap, and a separate collar shaped and proportioned to fit the coat and having a cooperative Zipper tape.

2,280,121
STRUCTURAL JOINT
Nathaniel P. Green, University City, Mo.
Application May 26, 1941, Serial No. 395,122
7 Claims. (Cl. 20—92)



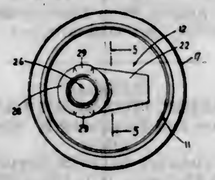
1. A structural joint comprising an angle plate having a supporting pad, arcuate bearing surfaces upon said plate, a rib on the angle plate having an arcuate opening and located between said arcuate bearing surfaces, a pair of heel plates, each of which has an arcuate bearing portion for engaging said arcuate bearing portions on the angle plate on opposite sides of said rib, each of said heel plates having a flat engaging area for engaging the end-grain of a strut, each heel plate having a side wall having an opening for fastening, means fastening said heel plates to opposite sides of the struts, said arcuate extensions on the heel plates having openings for receiving a bolt which is movable freely in said arcuate opening of said rib in the angle plate.

2,280,122
DOOR CLAMPING DEVICE
Christopher L. Hardwick, Cleveland, Tenn.
Application September 12, 1940, Serial No. 356,557
1 Claim. (Cl. 292—288)



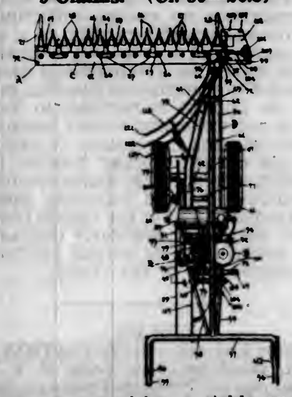
A clamp for securely holding a plurality of spaced enameled door panels to the front frame of a stove in transit comprising a headed screw adapted to engage in a tapped opening formed in the front frame in register with the space between the door panels, a substantially square flexible strip of readily compressible corrugated paper carried by said screw and adapted to overlap and engage one or more of said door panels and force the same tightly to said frame when said screw is screwed home, a metal washer on said screw between said screw head and said flexible strip, and a relatively heavy compressible paper tube loosely encircling said screw, said tube being of a length such that when the inner end thereof is seated against said frame the outer end of the tube will be substantially flush with the outer faces of the said panels and in position to be engaged and compressed by said flexible strip to lock the screw against accidental rotation when said screw is screwed home.

2,280,123
POURING SPOUT CONTAINER
Arthur G. Hopkins, Maspeth, N. Y., assignor to National Can Corporation, New York, N. Y., a corporation of Delaware
Application February 27, 1940, Serial No. 320,997
6 Claims. (Cl. 221—11)



1. A pouring spout container comprising a container provided with an end wall of dished formation, the said dished end wall consisting of a marginal side wall and a depressed bottom wall, a pouring opening in said bottom wall, and a cam track in said bottom wall around the said pouring opening, said cam track lying above and at an angle to the plane of said bottom wall; and a spout rotatably mounted on and lying above said depressed bottom wall, said spout having a neck portion which overlies the cam track and is adapted to ride thereon and having a mouth portion extending from said neck portion, the said spout being movable between a position lying wholly within said dished end to a position where the said mouth angularly extends upwardly and outwardly beyond the side wall of said dished end.

2,280,124
MOWER
Robert S. Kinkead, St. Paul, Minn.
Application February 27, 1941, Serial No. 380,829
9 Claims. (Cl. 56—26.5)



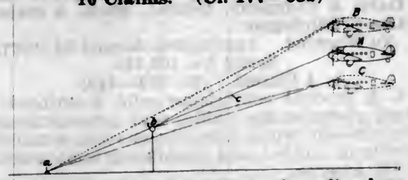
1. A mower comprising a sickle and a frame therefor, a pair of wheels disposed rearwardly of the sickle and between one end and the center of the sickle frame, a second frame supported by said wheels and connected to the sickle frame solely at the end thereof nearest said wheels whereby the vegetation cut is free from said second frame, a power unit supported by said wheels, means for driving one of said wheels from the power unit, and means for driving the sickle.

2,280,125
INKING ROLLER
Theodore J. Kauffeld, New York, N. Y.
Application May 31, 1941, Serial No. 396,009
10 Claims. (Cl. 91—67.8)



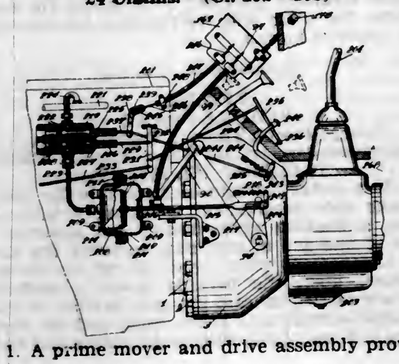
6. An inking roller core comprising a cylindrical central portion and heat transfer fins secured to and projecting outwardly from said central portion.

2,280,126
METHOD OF AND APPARATUS FOR GUIDING AIRCRAFT
Irving R. Metcalf, Washington, D. C., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application July 26, 1938, Serial No. 221,457
10 Claims. (Cl. 177—352)



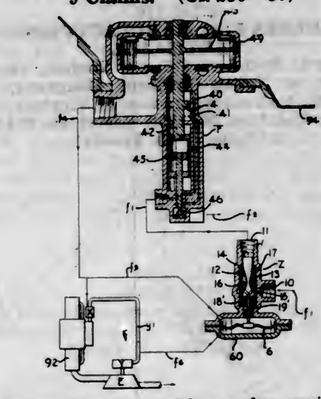
1. The method of guiding aircraft along a linear inclined path on approaching a field for landing which comprises emanating radiant energy from a plurality of points at the field to define in space the inclined plane in which the desired linear and inclined approach path is located; and producing on the aircraft from said emanated radiant energy a visual image of three spots in the relative relationship, as viewed from the aircraft, of three points in the said inclined plane, one point being the desired point of contact of the desired approach path with the landing field and the other points being above and symmetrically located with respect to the first point.

2,280,127
POWER TRANSMITTING MECHANISM FOR RAIL CARS, MOTOR VEHICLES, AND THE LIKE
Wade D. Morton, Gloucester City, and William E. Haupt, Westville, N. J., assignors to Automatic Drive & Transmission Company, Gloucester City, N. J., a corporation of New Jersey
Application February 25, 1932, Serial No. 595,184
24 Claims. (Cl. 192—105)



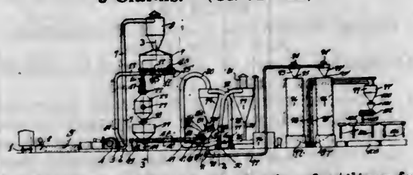
1. A prime mover and drive assembly provided with an automatic clutch of the type having a positive clutch plate mounted for movement from a position wherein clutch engagement is automatic, to a position wherein clutch engagement is positive; and means interconnected with said prime mover and said positive plate for causing said positive plate to assume positive clutch engagement position when said prime mover is stationary, and for causing said positive plate to assume automatic position when said prime mover reaches a predetermined speed.

2,280,128
FLOW CONTROL VALVE
Nathan C. Price, Hollywood, Calif., assignor, by mesne assignments, to Boeing Aircraft Company, Seattle, Wash., a corporation of Washington
Application April 7, 1939, Serial No. 266,670
9 Claims. (Cl. 236—80)



1. In combination with a valve casing having an inlet for pressure fluid and an outlet, a Venturi sleeve movable therein, interposed between the inlet and the outlet, a ring closely fitting within the casing, surrounding the sleeve and movable axially relative to and cooperating with the latter to constitute a port of variable size governing the admission of the fluid to and through the Venturi sleeve, and balanced means, including a port between the low-pressure throat of the Venturi sleeve and one side of the ring, governing movement of the ring and tending to maintain constant rate of flow through the Venturi sleeve for any setting of the latter.

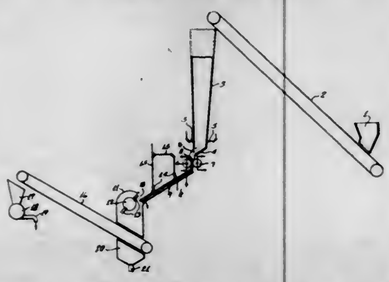
2,280,129
PROCESS FOR MANUFACTURING FERTILIZER
Herman C. Reinders-Folmer, Norfolk, Va., assignor to Smith-Rowland Company, Inc., Norfolk, Va., a corporation of Virginia
Application June 26, 1939, Serial No. 281,091
3 Claims. (Cl. 71—18)



1. The process of manufacturing fertilizer from proteinaceous waste material comprising shredding the proteinaceous material, confining a

predetermined quantity of said material in a pressure vessel having a volume substantially larger than that of said quantity of material, hydrolyzing the shredded material by admitting high-pressure steam into the vessel and at the same time vigorously agitating the shredded proteinaceous material for providing substantially uniform penetration of steam throughout the entire mass of shredded material to such a degree and for such a period of time only as to yield a maximum insoluble nitrogen content, then promptly injecting the hydrolyzed material into a rapidly moving current of hot air for arresting the hydrolytic reaction to prevent production of any substantial amount of water-soluble nitrogenous compounds, and maintaining the material in suspension in said air stream for a time sufficient to reduce the material to substantial dryness.

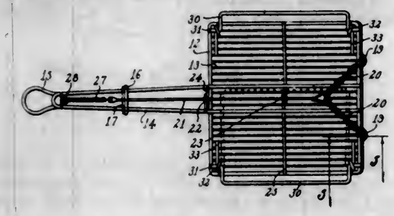
2,280,130
PROCESS FOR MANUFACTURING FERTILIZER
Herman C. Reinders-Folmer, Norfolk, Va., assignor to Smith-Rowland Company, Inc., Norfolk, Va., a corporation of Virginia
Application June 26, 1939, Serial No. 281,092
1 Claim. (Cl. 71—18)



The process of producing fertilizer from proteinaceous material capable of progressive hydrolytic degeneration which comprises feeding the proteinaceous material at atmosperic pressure into a zone of live steam in which the proteinaceous material will become progressively more fluid as the hydrolytic reaction proceeds, permitting the hydrolyzing proteinaceous material to flow out of the steam zone when it reaches a viscosity such that it will flow under its own weight, passing the outflowing hydrolyzed material between water cooled rolls to cool the mass and form it into a thin sheet thereby arresting further hydrolytic degeneration of the proteinaceous material further cooling the sheet to render it substantially brittle, breaking the sheet into large particles, and then grinding the particles to form fertilizer.

2,280,131
BROILER
Caesar Rossini and Taxio D. Pieragostini, New Haven, Conn.
Application March 25, 1941, Serial No. 385,097
10 Claims. (Cl. 53—5)

1. A broiler comprising a pair of cooperating grid members adapted to be superposed one above the other, a handle secured at one side of each of said members and projecting therefrom, means to clamp said members together, a flexible element secured to one element adjacent an edge thereof and passing over the adjacent edge of the second member, and means including a spring to secure said element to the second member



whereby said members are urged toward each other.

2,280,132
ORGANIC ARSENIC COMPOUND AND METHOD OF OBTAINING THE SAME
Albert B. Scott, Douglaston, N. Y., and James A. Sultzaberger, Detroit, Mich., assignors to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan
No Drawing. Application August 21, 1937, Serial No. 160,349
4 Claims. (Cl. 260—440)

4. A product comprising solid 3-amino-4-hydroxy phenylarsine oxide, said product being a substantially white amorphous solid, completely soluble in alcohol and containing approximately 37.7% arsenic.

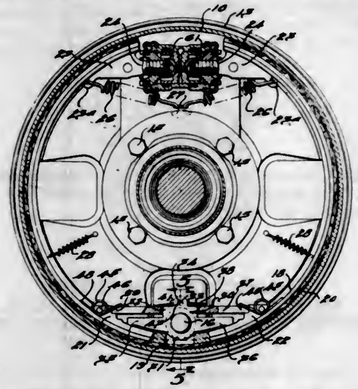
2,280,133
REFRIGERATION APPARATUS
Carl Sundbach, East Weymouth, Mass.
Application September 7, 1938, Serial No. 228,859
4 Claims. (Cl. 62—126)



3. In a plate freezer, a freezer plate of relatively flat hollow form, including an upper wall member and a lower wall member, end members provided with rabbets arranged in edge-abutting relation with and at opposite ends of said wall members and to which the wall members are connected in fluid tight manner, closure members embracing the side edges of said wall members and the ends of said end members and connected fluid tight thereto, means disposed between said wall members at predetermined points throughout their area for maintaining the wall members in predetermined spaced relation, said closure members provided with means for connecting the plate with refrigerant introduction and emission means.

2,280,134
VEHICLE BRAKE
George Joseph Thomas, Detroit, Mich.
Application January 11, 1939, Serial No. 250,291
10 Claims. (Cl. 188—78)

1. In a brake, in combination, a brake drum, a brake shoe adapted for engagement with the drum, a backing plate, means for applying a force to one end of said shoe to bring the shoe into engagement with the drum, an anchor pin mounted upon the backing plate, a rockable member carried by said pin and having its ends engageable with said brake shoe, and an energizing link associated with said member and having its ends engageable with the shoe, said member and link providing means for transmitting

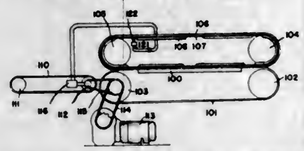


said force to the shoe at spaced points remote from said end of the shoe.

2,280,135
CONDUCTIVE COATING FOR GLASS AND METHOD OF APPLICATION
Theodore W. H. Ward, New York, N. Y.
No Drawing. Application February 21, 1940, Serial No. 320,130
3 Claims. (Cl. 250—141)

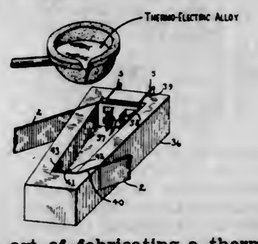
1. A conductive coating composition for forming an opaque coating of low light reflectivity on glass and the like, comprising metal of the group consisting of nickel, tin, bismuth, cadmium, chromium and silver, in the form of finely divided flakes, dispersed in a liquid medium comprising a film-forming organic substance and a volatile solvent therefor.

2,280,136
APPARATUS FOR DECORATING FABRIC
Winfield L. Webster and Elburn J. Rann, Windsor, Ontario, Canada, assignors to National Automotive Fibres, Inc., Detroit, Mich., a corporation of Delaware
Application November 6, 1939, Serial No. 303,164
3 Claims. (Cl. 18—6)



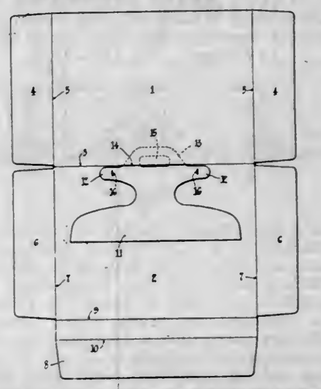
2. Apparatus of the character described comprising an elongated heating element, pressure means resiliently urged toward said element, a pair of endless bands movable together between said element and pressure means, a feed conveyor belt arranged to advance sheet material to be embossed between said bands, one of said bands having design recesses therein, drive means for said feed conveyor belt and for said bands, and means for intermittently driving said conveyor belt to advance material in properly registering relation to said design recesses, said last means comprising conveyor control elements movable with said band having design recesses therein, and a clutch for controlling the driving of said conveyor belt controlled by said control elements.

2,280,137
METHOD OF FABRICATING THERMO-ELECTRIC ELEMENTS
Martin W. Wiegand, Cincinnati, Ohio, assignor to The Huenefeld Company, Cincinnati, Ohio, a corporation of Ohio
Application August 4, 1939, Serial No. 288,409
2 Claims. (Cl. 136—5)



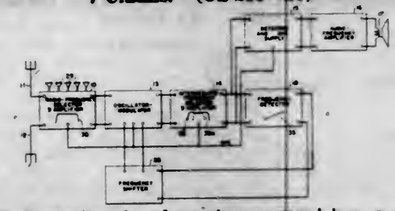
1. In the art of fabricating a thermo-electric element, the method which comprises heating antimony to a temperature of approximately 1350 degrees F., then adding a flux of sodium chloride and a trace of arsenic while maintaining the temperature at approximately 1350 degrees F., then adding zinc to the mixture in the ratio of 36 to 45 parts to 64 to 55 parts of antimony for 100 parts alloy while still maintaining the temperature at 1350 degrees F., and finally molding the mixture into a desired shape.

2,280,138
PACKAGE
Joseph Hirsch Vineberg, Ottawa, Ontario, Canada
Application September 7, 1938, Serial No. 228,850
3 Claims. (Cl. 206—7)



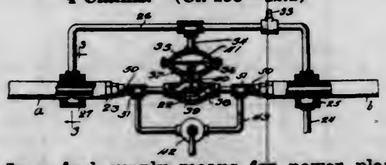
1. A folder for merchandise and the like, comprising a one-piece blank having a fold line defining a pair of similar sections foldable one upon the other, merchandise supporting means carried by one of said sections and housed between them when folded, opposed side flaps hingedly connected integrally to the sides of each section to fold inwardly over a part of the section surface and extending the length thereof, the flaps on each section being in face contact with the other section flaps when the folder is folded, a locking flap on one section and extending along the free edge thereof, said locking flap being foldable and insertable between the other section and its side flaps to close the folder, the first named fold line being slotted along a portion of its length, and a handle for said folder projected through said slot and connected to one of said sections.

2,280,139
CARRIER-SIGNAL RECEIVER
Harold A. Wheeler, Great Neck, and Robert L. Freeman, Flushing, N. Y., assignors to Hazeltine Corporation, a corporation of Delaware
Application January 23, 1941, Serial No. 375,574
7 Claims. (Cl. 250—20)



1. A carrier-signal receiver comprising, a carrier-signal translating channel including a band-pass selector of adjustable band width having a mean resonant frequency normally bearing a predetermined relation to the mean frequency of a carrier signal to be translated thereby, the relation between said mean frequencies being subject to deviations from said predetermined relation which may be substantial as compared with the band width of said signal, said selector initially having a pass band sufficiently wide to include said signal and said deviations, means responsive to the mean frequency of a carrier signal passed by said selector for reducing said deviations substantially to maintain said normal predetermined relation, and means for contracting the pass band of said selector in response to the translation of a carrier signal thereby.

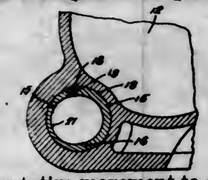
2,280,140
FUEL SUPPLY MEANS FOR POWER PLANTS
John Hart Wilson, Wichita Falls, Tex.
Application November 28, 1939, Serial No. 306,581
4 Claims. (Cl. 158—42.1)



4. In a fuel supply means for power plants, in combination, a fuel tank, a carbureting device, and a fuel line leading from said tank to said device, said fuel line comprising a liquid fuel conducting tube, a valve for closing said tube, a chamber for a gas under pressure enveloping the tube, and a movably mounted element subjected at all times to the pressure of the gas in said chamber, said valve being operatively connected to said element and being moved thereby to closed position when the gas pressure falls below a predetermined amount.

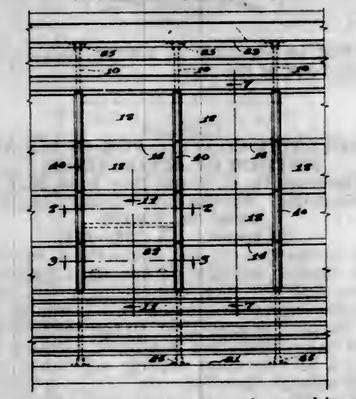
2,280,141
DREDGE BUCKET
Charles B. Andrews, High Bridge, and George R. Hanks, Clinton, N. J., assignors to Taylor-Wharton Iron and Steel Company, High Bridge, N. J., a corporation of New Jersey
Application November 18, 1939, Serial No. 305,192
5 Claims. (Cl. 37—191)

1. A chain dredge bucket having a rear eye comprising substantially equalized cast metal having a symmetrically formed full round bushing seat, said metal being free from porous spots and being otherwise sound, a bushing having a conforming fit and comprising bushing sections adapted and arranged to be positionally inter-



changed by rotative movement to compensate for wear, and means for relatively securing the bushing in any adjusted position.

2,280,142
GLAZING CONSTRUCTION
Albert J. Daniels, Shrewsbury, Mass.
Application November 25, 1939, Serial No. 306,106
14 Claims. (Cl. 189—64)

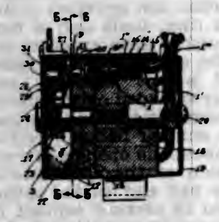


1. In a glazing construction, in combination, a plurality of upright supporting members, a plurality of vertically spaced horizontally extended panel supporting members, a plurality of panels supported beyond the outer faces of said upright supporting members, said upright supporting members being provided with means for restraining the side edges of the panels from outward movement, said horizontally extended supporting members being provided with means for restraining the top and bottom edges of the panels from outward movement and means detachably secured to said supporting members including means arranged to be snapped into cooperative relationship to said horizontal supporting members for restraining the panels from inward movement whereby to permit the panels to be erected from within the structure.

2,280,143
MULTICIRCUIT SWITCH
Charles W. Dann, East Orange, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application November 15, 1939, Serial No. 304,514
13 Claims. (Cl. 200—11)

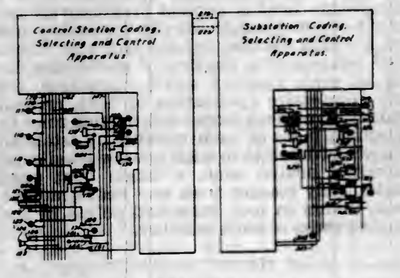
1. A shielded multicircuit switch comprising a stationary housing section, a housing section adjoining said stationary section and movable along the adjacent side thereof, said sections mutually forming electrostatically shielded compartments; a multiplicity of electrostatically intershielded switch contact members fixedly mounted in said stationary section and adapted for connection

with conductors leading from said section, said switch contact members having contacts included in said compartments at the said adjacent side of the section and said compartments being each adapted to include a pair of said contacts the different pairs of which are selected by moving



said movable section across the adjacent face of said stationary section; and a single contact bridging member provided in each of said compartments and carried insulatedly by said movable housing section for slidably engaging said contacts to interconnect the pairs of end faces included in the respective compartments.

2,280,144
SIGNALING SYSTEM
Willard A. Derr, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 19, 1940, Serial No. 346,329
4 Claims. (Cl. 177—353)



3. In a supervisory control system having a controllable element at a remote station, circuit control means including a plurality of separately operable circuit control devices at a control station, control means responsive to the operation of a plurality of the circuit control devices for selectively actuating the controllable element to normal and operated positions, means at the remote station for automatically moving the controllable element to operated position and thereafter to normal position, a signaling relay at the control station, means responsive to the position of the controllable element for selectively actuating said signaling relay including means for actuating said signaling relay when the controllable element moves to one of its positions even though it be moved to the other position before said signaling relay is energized, an auxiliary relay at the control station responsive to said signaling relay, indicating means responsive to said auxiliary relay, a holding circuit for said auxiliary relay, and means responsive to the actuation of one of the said circuit control devices to which said control means is responsive for opening said holding circuit.

2,280,145
LOWER MARGIN INDICATOR FOR TYPEWRITERS
Fred F. Drabick, Seattle, Wash., assignor of one-third to George E. Bradner and one-third to Herbert O. Landon, both of Seattle, Wash.
Application October 2, 1939, Serial No. 297,574
3 Claims. (Cl. 197—189)



2. A typewriter attachment, comprising electrical contact points normally separated while said typewriter is operated, a control disc operably connected with the platen to be rotated thereby and having a notch in the periphery thereof, a signaling device in circuit with said contact points, and a pivoted switch lever comprising one of said points and being resiliently pressed against the periphery of said disc and adapted to enter said notch at a predetermined point in the rotation of said disc to close said circuit and cause the signal to be given.

2,280,146
CAR CONSTRUCTION
Otho C. Duryea, Waterbury, Conn., assignor to O. C. Duryea Corporation, Wilmington, Del., a corporation of Delaware
Application April 20, 1940, Serial No. 330,795
4 Claims. (Cl. 105—230)



1. A railway car body bolster of the type having a substantially central opening for the passage of a draft and buffing column and comprising two integral structures extending respectively from opposite sides of said opening to the adjacent sides of the car, said structures having portions extending above and below said opening with the ends of said extending portions abutting the other structure along lines transverse to the bolster at its top and bottom and adjacent the center line of the car, said structures being welded together along said lines.

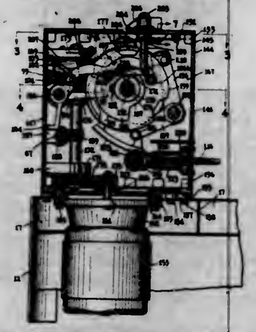
2,280,147
PREPARATION OF EGG PRODUCTS
Norman C. Fischer, Springfield, Mo., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application July 31, 1939,
Serial No. 287,622
13 Claims. (Cl. 99—210)

1. The process of treating egge whites comprising acidifying the egg whites, subjecting the acidified egg whites to extended bacterial fermentation, and drying the fermented egg white material.

13. A process of treating egg whites comprising subjecting the egg whites to hydrolysis whereby the viscosity of the whites is reduced to substantially that of water and insolubles are caused to separate from the remainder of the egg white material, subjecting said material to agitation to disperse said insolubles and bring them into suspension within the mass of the material, sub-

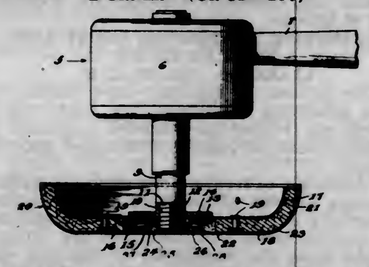
jecting said material including said insolubles to extended bacterial fermentation, and drying the fermented egg material.

2,280,148
DOUGHNUT MACHINE
Stephen A. Gardner, Minneapolis, Minn., assignor to Dough-King, Inc., Minneapolis, Minn., a corporation of Minnesota
Application August 28, 1940, Serial No. 354,538
13 Claims. (Cl. 53—7)



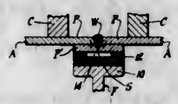
2. In a doughnut machine in which the doughnuts are progressed along a way, a doughnut former for depositing dough formations in the cooking liquid in the way, a drive shaft, a cam on the drive shaft, said cam having a plurality of irregularities thereon in excess of two, means controlled by said cam for operating said doughnut former and including a follower adapted to engage said cam, said follower causing an operation of the doughnut former when passing each irregularity, latching means for engaging a part movable with said follower to prevent movement thereof while the follower is in position to engage certain of said irregularities, a movable control member therefor adapted to occupy a number of positions corresponding to the number of irregularities of said cam and means operated by said control member for moving said latching means to engage the part movable with said cam follower to permit engagement of the cam follower with a certain number of said irregularities when the control member is in one position and with a different number of said irregularities when the control member is in another of its positions.

2,280,149
POWER OPERATED HAND TOOL
Joseph J. Gerst, Fullerton, Md.
Application February 4, 1941, Serial No. 377,394
1 Claim. (Cl. 51—197)



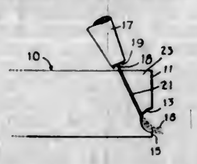
In a tool, a collar internally screw threaded for threading on a power shaft with the latter protruding from said collar, an annular flange integral with the sleeve at one end thereof, a disc abutting said flange and having a centrally located opening to permit the shaft to extend beyond said disc, a ring engaging said disc and secured thereto and to said flange, said disc including a convex periphery, a pad covering said disc and secured thereto and conforming to the contour of the latter and provided with an opening exposing said ring, shaft and a portion of the flange, an abrasive sheet covering said pad conforming to the contour thereof and having an opening, and a nut including an internally threaded collar threaded on the shaft against the flange and extending through the opening of the sheet, and an annular flange overlying a portion of the sheet about the opening thereof and forcing said portion of the sheet inwardly of the opening of the pad and located within the opening of the pad to prevent contact thereof with an object engaged by said sheet during the dressing thereof.

2,280,150
HEATING OF METALS
Franklin C. Hasse and Arthur A. Bernard, Chicago, Ill., assignors to The Linde Air Products Company, a corporation of Ohio
Application March 1, 1940, Serial No. 321,620
16 Claims. (Cl. 113—112)



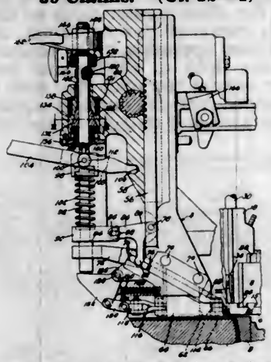
1. In the method of locally heating a metallic member in which a concentrated source of high temperature heat is applied progressively to and along a narrow longitudinally extending zone of such metallic member to heat such zone to an elevated temperature, the step of preventing distortion of such member which comprises, during such progressive application of heat, restraining conduction of heat from such narrow zone to the remaining mass of such member by establishing, between two points in such narrow longitudinally extending heated zone, a single heat gradient substantially steeper than any heat gradient between points in such zone and points in the remaining mass of such member.

2,280,151
FLAME MACHINING
Howard G. Hughey, Bloomfield, and Walter G. Sylvester, Jersey City, N. J., assignors to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application May 3, 1940, Serial No. 333,078
12 Claims. (Cl. 148—9)



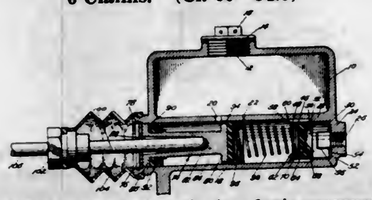
3. The flame machining method comprising scarfing a longitudinal groove in a side edge face of a metal work-piece, and removing metal above the groove in solid condition by means of a cutting jet operating against the top face and in a plane back of said side edge face and intersecting the wall of the groove at the downstream end of the kerf.

2,280,152
LASTING MACHINE
Jacob C. Jorgensen, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application December 2, 1940, Serial No. 368,173
35 Claims. (Cl. 12—4)



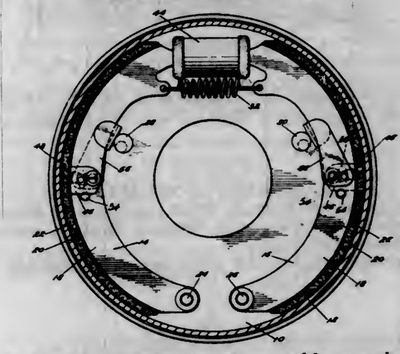
1. In a lasting machine, wipers for wiping the marginal portion of an upper into lasted position around an end of a last, supports for said wipers movable to operate them, the wipers being detachable from said supports to permit different wipers to be used on shoes of different styles or sizes, and a plurality of fastening-inserting devices movable with each of said wiper supports into positions to insert fastenings to fasten the upper after the wiping operation of the wipers, the fastening-inserting devices associated with each of said supports being so mounted on that support as to permit them when the wipers are detached to swing on the support relatively to one another in such directions as to vary relatively the positions of fastenings inserted respectively by the different devices, and the wipers being constructed to determine the relation of the fastening-inserting devices to one another and to maintain them positively in that relation when the wipers are in place on their supports.

2,280,153
FLUID PRESSURE PRODUCING DEVICE
Erwin F. Loweke, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California
Application August 16, 1940, Serial No. 352,976
In Canada December 1, 1939
6 Claims. (Cl. 60—54.5)



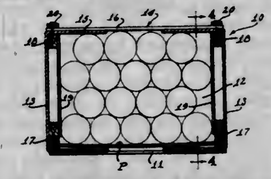
1. A fluid pressure producing device comprising a reservoir, a cylinder supplied therefrom having a discharge port, a piston movable in the cylinder for creating pressure, a cylindrical member secured in the cylinder adjacent the discharge port including a raised portion, passages in the member, a floating piston in the member adapted to control the passages in the member and limited in movement in one direction by the raised portion on the member, and a spring interposed between the pistons.

2,280,154
ADJUSTER FOR FRICTION ELEMENTS
Erwin F. Loweke, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California
Application August 16, 1940, Serial No. 352,978
In Canada December 1, 1939
12 Claims. (Cl. 188—79.5)



1. A brake comprising a movable member, a friction element for cooperation therewith, a stop for the friction element, a member carried by and movable transversely of the friction element having a slot therein angularly disposed to the path of movement of the member, and a lever fulcrumed on the friction element having a part received by the slot and another part for cooperation with the stop.

2,280,155
CARTON STRUCTURE
Willis F. Luce, San Francisco, Calif.
Application August 31, 1938, Serial No. 227,679
2 Claims. (Cl. 229—14)

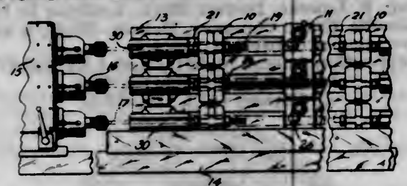


1. In combination with a carton formed of fiberboard or the like having side walls, end walls, a bottom and a cover, a pair of open rectangular frames disposed in the ends of the carton and including only a pair of vertical members and upper and lower transverse members, and a spring panel having its ends supported only on the lower transverse members on the inside of the frame.

2,280,156
WORK CLAMPING DEVICE FOR MACHINE TOOLS
Otil F. Mastriforte, West Hartford, Conn., assignor to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey
Application October 23, 1940, Serial No. 362,430
4 Claims. (Cl. 77—63)

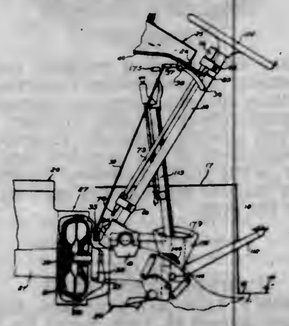
1. Work holding means for machine tools comprising in combination, a pair of axially spaced chucks positioned to engage spaced portions of an elongated work piece having different diameters at its chuck engaging points, jaws movable within said chucks, a member within each chuck engaging the jaws thereof, each of said members

having a gear formed centrally thereof, worms engaging said gears and mounted for limited in-



dependent axial movement, and unitary manual means to simultaneously rotate said worms.

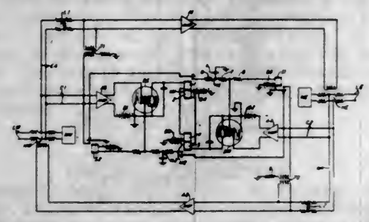
2,280,157
STAND DRIVE VEHICLE
Lynn D. Mead, Detroit, Mich., assignor to Divco-Twin Truck Company, Detroit, Mich., a corporation of Michigan
Application July 13, 1940, Serial No. 345,396
2 Claims. (Cl. 180—77)



2. In a vehicle, an engine; a hydraulic drive member coupled to said engine, a hydraulic driven member having a brake, and a shiftable gear transmission connected to said driven member; a low floor within the vehicle spaced from the roof to provide standing height clearance; a steering post forwardly of said floor; a lever movably mounted on the upper portion of said post; motion transmitting mechanism connecting said lever with said shiftable gear transmission; a dash board assembly within said vehicle, a bracket rigid with said assembly supporting the upper end of said post; a second lever movably mounted on said assembly; and means connecting said second lever to the brake on said driven member, both of said levers being conveniently accessible to an operator standing behind the wheel on said floor.

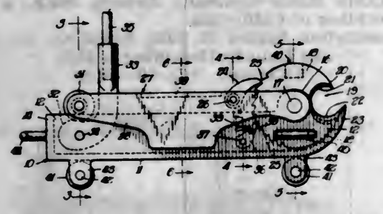
2,280,158
TWO-WAY SIGNAL TRANSMISSION SYSTEM
Doren Mitchell, Bound Brook, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 29, 1941, Serial No. 395,696
4 Claims. (Cl. 178—44)

1. In a two-way telephone system including two oppositely-directed one-way transmission paths for the telephone signals transmitted in opposite directions, an echo suppressor unit connected to each path, including a signal detector, a master relay having an operating winding energized from the detector output when signals are applied to its input from the connected path, switching means responsive to operation of said master relay to insert a disabling loss in the other one-way path and means to maintain said switching means operated for a desired hang-over time interval after the master relay releases, each master relay having an opposing biasing winding in circuit with the operating winding of the other master relay so that when one relay is energized for operation, the other is biased against operation by an amount determined by the level of the signals controlling energization of said one relay, the echo suppressor unit supplied with the stronger signals thereby being operated and the other echo suppressor



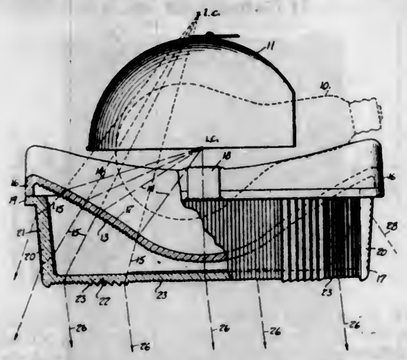
unit being held unoperated, means to facilitate breaking by one talker when another talker has thus obtained control of the two echo suppressor units, comprising auxiliary means responsive to operation of the master relay in each suppressor unit to disable the switching means controlled by the other master relay and means to prevent the disabling of each path from affecting the input to the suppressor unit connected to that path, whereby each talker can gain control of said suppressor units and thus of transmission in said system by talking louder than the other talker for a time interval longer than the hang-over time of the suppressor unit controlled by the latter's voice currents.

2,280,159
CUTTER
Ernest C. Neal, Chicago, Ill., assignor of one-fourth to James D. Roberts, Portland, Oreg., and one-fourth to Francis E. Marsh, McMinnville, Oreg.
Application October 13, 1939, Serial No. 299,239
9 Claims. (Cl. 30—231)



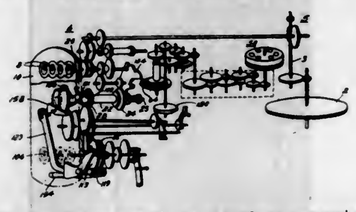
9. A cable cutter comprising a channel frame, a lever in the form of an inverted channel pivotally mounted to the frame and having interfitting engagement with the channel frame whereby the lever is guided by the frame, a cutter pivotally supported in the frame between the frame channel legs, co-operating cutting jaws on the frame and cutter, a wheel carried by the lever arm, a reciprocating cam pivotally mounted in the frame between the frame channel legs and adapted to raise and lower the lever, a handle for operating the cam, and a ratchet pawl carried by the lever and adapted to operate the cutter upon operation of the lever arm by the cam.

2,280,160
LUMINAIRE
Thomas W. Rolph and Kurt Franck, Newark, Ohio, assignors to Holophane Company, Inc., New York, N. Y., a corporation of Delaware
Application October 10, 1940, Serial No. 360,535
8 Claims. (Cl. 240—106)



1. In a luminaire, means for acting on a downwardly divergent cone of light whose axis is vertical to convert it into a beam wherein the rays have substantially unchanged divergence in one direction and a substantially uniform inclination to the vertical in transverse planes, comprising a horizontal lens intercepting said conical beam and having parallel prisms disposed in the direction of unchanged divergence, all the prisms to one side of a vertical plane through the apex of the cone and parallel with the prisms having a refracting power uniformly greater than that of those on the other side and such that the emitted light is directed across the said vertical plane at an angle to said plane equal to the angle the light emitted by the prisms of the said other side makes with said vertical plane.

2,280,161
REGISTER RESET
George W. Rosenberger, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 29, 1940, Serial No. 326,700
6 Claims. (Cl. 171—34)



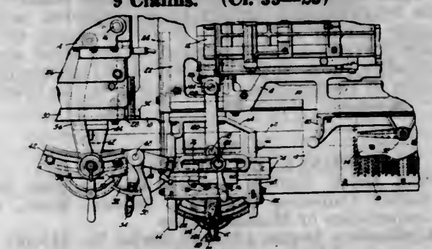
1. In an instrument, a member mounted for movement in one direction and means for frictionally retaining it in a position to which it is moved, motive means for moving said member in the reverse direction against said retaining means, means for maintaining said motive means operatively connected to said member, said last named means being positioned for operation by said member when it reaches a predetermined position for releasing said motive means, and resilient means for engaging said member to insure its stopping at a predetermined position upon the release of said motive means.

2,280,162
COUPLER OR SEPARABLE FASTENER
Albert A. Rae, Raymond, Wash.
Application March 27, 1941, Serial No. 385,559
3 Claims. (Cl. 24—211)



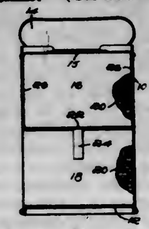
1. In a fastener, male and female members each having an eye, said female member including a casing-like portion for receiving the male member, said male member including a reduced portion to enter the female member, said female member having slots and one of the slots opening through the edge of the female member, said reduced portion of the male member having a slot, a rib on the reduced portion of the male member to enter the latter-mentioned slot of the female member, and a key to extend through the slots of the male and female members.

2,280,163
PATTERN REPRODUCING MACHINE
George F. Ryan, Peabody, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application November 8, 1940, Serial No. 364,822
9 Claims. (Cl. 33—23)



1. In a pattern reproducing machine, four primary instrumentalities, namely, a model holder, a work holder, a model follower, and a tool, two of said instrumentalities being movable and connected by grading mechanism constructed and arranged to utilize the actual movement of one of them in a certain direction to impart a grading movement to the other in the same direction, and means driven only by the actual movement of the said one instrumentality in a direction transverse to that of the grading movement for varying the extent of the grading movement effected by said mechanism.

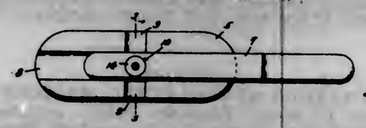
2,280,164
TOBACCO BOX AND PACKAGE
Charles E. Sacre, Boston, Mass.
Application May 27, 1939, Serial No. 276,073
3 Claims. (Cl. 206—41.1)



3. An article of manufacture comprising a rela-

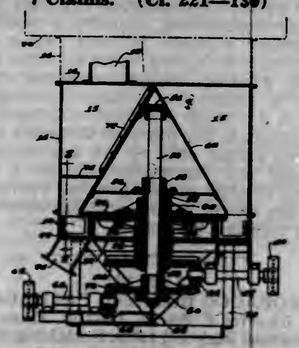
tively deep and narrow container having one-piece side walls of sheet material, the bottom end of the container being closed, a removable cover on the top end thereof, two packages of tobacco or the like in the container in contacting relation intermediately of its ends, the two packages being sealed independently of each other and the lower package being adapted to be drawn outwardly of the container after the contents of the top package have been removed, the two packages in the container being so secured together that withdrawal of the top package withdraws the bottom package, and means for supporting the lower package in the top end portion of the container.

2,280,165
REVERSIBLE HANDLE
Charles Sebastian, St. Louis, Mo.
Application May 14, 1941, Serial No. 393,447
4 Claims. (Cl. 206—6)



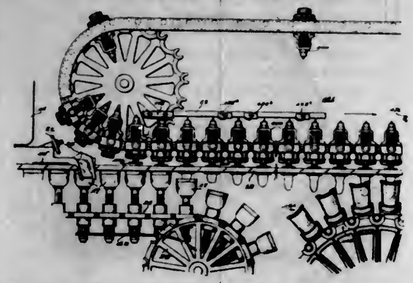
1. In a device of the character described, a head having grooves with one groove extending at right angles to the other, a handle positionable longitudinally in any of said grooves, said handle having a chamber in its upwardly disposed surface, a pivot secured to the head and extending into the chamber, and tensioning means in the chamber and secured to the pivot.

2,280,166
CONVEYING APPARATUS
Alfred Delos Sinden, Aurora, Ill., assignor to Redler Conveyor Company, Quincy, Mass., a corporation of Massachusetts
Application August 12, 1939, Serial No. 289,902
7 Claims. (Cl. 221—139)



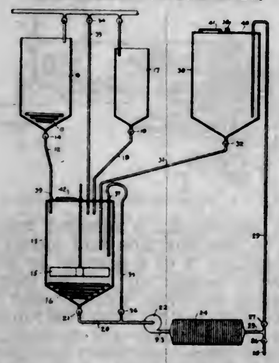
2. Conveying apparatus comprising a circular trough having a discharge outlet, an open flight conveying element disposed in and traversable through the trough, a reservoir above the trough from which material may fall into the trough, a rotatable conical member within the reservoir having the periphery of its base adjacent the trough, and means for rotating said conical member at a relatively slower rate than the traversal of said conveying element through said trough, said rotatable conical member being adapted to deflect the material in the reservoir into the trough and to prevent the material from arching over the mouth of the trough.

2,280,167
GLASS WORKING APPARATUS AND METHOD
Leonard D. Soubier, Toledo, Ohio, assignor to Owens-Illinois Glass Company, a corporation of Ohio
Application December 23, 1938, Serial No. 247,319
14 Claims. (Cl. 49—5)



11. In a glass forming machine, the combination with a moving conveyor including a plurality of articulated sections moving in a closed path, each section having an aperture formed therein, said sections forming a continuous glass supporting surface, and means positioned above the conveyor for discharging a continuous stream of glass onto the latter, of a stationary ironing member positioned above the conveyor in the path of said stream for flattening the stream against the conveyor into ribbon form, means positioned below the conveyor ahead of the ironing member for drawing measured charges through the apertures from the stream prior to flattening of the latter by the ironing member, means positioned behind the ironing member for severing the ribbon from the charges comprising a disk rotating substantially in the plane of the conveyor and entering between the ribbon and conveyor, and a stationary plow member having an upwardly curved surface adapted to underlie the severed ribbon and turn the same laterally from the conveyor.

2,280,168
PROCESS OF PREPARING CUPROUS OXIDE
William B. Stoddard, Jr., Hamilton, Ohio
Application August 22, 1941, Serial No. 407,975
10 Claims. (Cl. 23—147)



2. Process of preparing cuprous oxide which comprises mixing in water solution a cupric salt with sodium sulphite, to the resulting mixture adding sodium hydroxide, and separating the precipitate containing cuprous oxide.

2,280,169
ALUMINUM ALLOY
Philip T. Stroup, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Original application October 27, 1939, Serial No. 301,594. Divided and this application October 1, 1940, Serial No. 359,239
1 Claim. (Cl. 75—138)



A cast article composed of an aluminum base alloy containing from 0.1 to 3 per cent manganese, and at least 0.01 per cent of each of the metals tantalum and columbium, the total amount of said two metals not exceeding 0.5 per cent, the balance being aluminum, said alloy having a finer grain size in the as-cast condition than the same alloy containing either tantalum or columbium alone.

2,280,170
ALUMINUM ALLOY
Philip T. Stroup, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Original application October 27, 1939, Serial No. 301,594. Divided and this application October 1, 1940, Serial No. 359,240
4 Claims. (Cl. 75—141)



1. A cast article composed of an aluminum base alloy containing from 0.25 to 12 per cent copper, 0.5 to 20 per cent zinc, and at least 0.01 per cent of each of the metals tantalum and columbium, the total amount of said two metals not exceeding 0.5 per cent, said alloy being characterized in the as-cast condition by a finer grain size than the same alloy containing either tantalum or columbium alone.

2,280,171
ALUMINUM ALLOY
Philip T. Stroup, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Original application October 27, 1939, Serial No. 301,594. Divided and this application October 1, 1940, Serial No. 359,241
4 Claims. (Cl. 75—139)



1. A cast article composed of an aluminum base alloy containing from 0.25 to 12 per cent copper, 0.1 to 3 per cent manganese, and at least 0.01 per cent of each of the metals tantalum and columbium, the total amount of said two metals not exceeding 0.5 per cent, said alloy being characterized in the as-cast condition by a finer grain size than the same alloy containing either tantalum or columbium alone.

2,280,172
ALUMINUM ALLOY
Philip T. Stroup, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Original application October 27, 1939, Serial No. 301,594. Divided and this application October 1, 1940, Serial No. 359,242
4 Claims. (Cl. 75—147)



1. A cast article composed of an aluminum base alloy containing from 0.5 to 15 per cent magnesium, 0.1 to 3 per cent manganese, and at least 0.01 per cent of each of the metals tantalum and columbium, the total amount of said two

metals not exceeding 0.5 per cent, said alloy being characterized in the as-cast condition by a finer grain size than the same alloy containing either tantalum or columbium alone.

2,280,173
ALUMINUM ALLOY
Philip T. Stroup, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Original application October 27, 1939, Serial No. 301,594. Divided and this application October 1, 1940, Serial No. 359,243
3 Claims. (Cl. 75—148)



1. A cast article composed of an aluminum base alloy consisting of from 0.25 to 12 per cent copper, 0.5 to 15 per cent magnesium, at least 0.01 per cent of each of the metals tantalum and columbium, the total amount of said two metals not exceeding 0.5 per cent, and the balance aluminum.

2,280,174
ALUMINUM ALLOY
Philip T. Stroup, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Original application October 27, 1939, Serial No. 301,594. Divided and this application October 1, 1940, Serial No. 359,244
3 Claims. (Cl. 75—139)



1. A cast article composed of an aluminum base alloy consisting of from 0.25 to 12 per cent copper, 0.25 to 14 per cent silicon, at least 0.01 per cent of each of the metals tantalum and columbium, the total amount of said two metals not exceeding 0.5 per cent, and the balance aluminum.

2,280,175
ALUMINUM ALLOY
Philip T. Stroup, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Original application October 27, 1939, Serial No. 301,594. Divided and this application October 1, 1940, Serial No. 359,245
3 Claims. (Cl. 75—142)



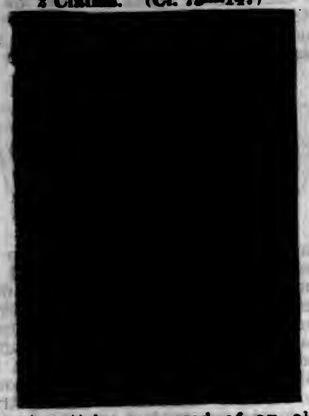
1. A cast article composed of an aluminum base alloy consisting of from 0.25 to 12 per cent copper, 0.5 to 15 per cent magnesium, 0.25 to 14 per cent silicon, at least 0.01 per cent each of the metals tantalum and columbium, the total amount of said two metals not exceeding 0.5 per cent, and the balance aluminum.

2,280,176
ALUMINUM ALLOY
Philip T. Stroup, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Original application October 27, 1939, Serial No. 301,594. Divided and this application October 1, 1940, Serial No. 359,246
3 Claims. (Cl. 75—147)



1. A cast article composed of an aluminum base alloy consisting of from 0.25 to 14 per cent silicon, 0.5 to 15 per cent magnesium, at least 0.01 per cent each of the metals tantalum and columbium, the total amount of said two metals not exceeding 0.5 per cent, and the balance aluminum.

2,280,177
ALUMINUM ALLOY
Philip T. Stroup, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Original application October 27, 1939, Serial No. 301,594. Divided and this application October 1, 1940, Serial No. 359,247
2 Claims. (Cl. 75—147)



1. A cast article composed of an aluminum base alloy consisting of from 0.5 to 15 per cent magnesium, at least one of the hardeners of the group composed of 0.05 to 0.5 per cent chromium, 0.01 to 0.5 per cent titanium, 0.25 to 2.5 per cent nickel, 0.01 to 0.5 per cent boron, 0.002 to 2 per cent beryllium, 0.1 to 0.5 per cent molybdenum, and 0.1 to 0.5 per cent zirconium, the total amount of said hardeners not exceeding about 3 per cent, at least 0.01 per cent of each of the metals tantalum and columbium, the total amount of said two metals not exceeding 0.5 per cent, and the balance aluminum.

2,280,178
ALUMINUM ALLOY
Philip T. Stroup, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Original application October 27, 1939, Serial No. 301,594. Divided and this application October 1, 1940, Serial No. 359,248
3 Claims. (Cl. 75—148)

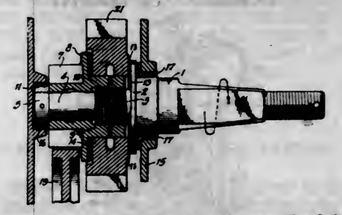


1. A cast article composed of an aluminum base alloy consisting of from 0.25 to 14 per cent silicon, at least 0.01 per cent each of the metals tantalum and columbium, the total amount of said two metals not exceeding 0.5 per cent, and the balance aluminum.

2,280,179
ALLOY
Jacob Trantin, Jr., Youngstown, Ohio
No Drawing. Application December 20, 1941, Serial No. 423,819
3 Claims. (Cl. 75—128)

1. A ferrous alloy having an analysis including between about .20 to about 1.00 per cent carbon, about 1.00 to 5.00 per cent chromium, about 1.00 to about 10.00 per cent copper, about 1.00 to about 10.00 per cent cobalt, 3.00 to about 10.00 per cent molybdenum, about .40 to about 2.50 per cent silicon, about .40 to about 1.00 per cent manganese, and the remainder substantially all iron, said alloy being capable of being cast, and being characterized by freedom from heat checking and surface fissuring, toughness, wear-resistance, and freedom from hot metal scale pick-up.

2,280,180
PINION ASSEMBLY FOR HAND BRAKES
Edwin E. Van Cleave, Chicago, Ill.
Application June 6, 1940, Serial No. 339,092
3 Claims. (Cl. 192—16)

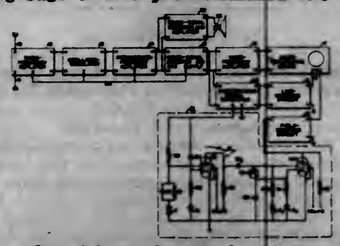


1. A device of the character described including a pinion, a shaft passing through and in threaded engagement with the pinion, the shaft having a shoulder facing the pinion, a one-way holding device loosely and concentrically supported between the shaft shoulder and the pinion, means for effecting relative rotation between the shaft and pinion to axially move the shaft shoulder and pinion toward and away from clutch engagement with the holding device, a collar on the shaft in position to be engaged by the pinion and form a driving connection between the shaft and pinion when the pinion is disengaged from the holding device, said collar being both threaded and pinned to the shaft, and a bearing surrounding the collar.

2,280,181
SYNCHRONIZING-SIGNAL SEPARATING APPARATUS
John C. Wilson, Bayside, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware
Application July 13, 1940, Serial No. 345,289
10 Claims. (Cl. 178—7.5)

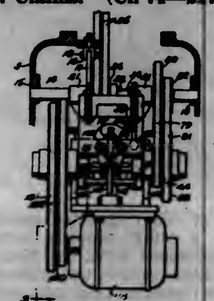
1. In a television signal-translating system, a synchronizing-signal separating apparatus adapted to be energized by a composite synchronizing signal including line-synchronizing pulses and a plurality of field-synchronizing pulses for each field-underlap interval of the same polarity as, but having a greater duration than, said line-synchronizing pulses comprising, means including an integrating circuit responsive to a predeter-

mined one of said field-synchronizing pulses of each field-underlap interval and substantially unresponsive to said line-synchronizing pulses for deriving a sensitizing signal initiating at the trailing edge of said predetermined one of said



field-synchronizing pulses, and means responsive jointly to said sensitizing signal and to the field-synchronizing pulse of said composite synchronizing signal for deriving a control signal from the field-synchronizing pulse following said trailing edge.

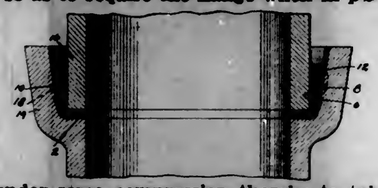
2,280,182
VARIABLE SPEED DRIVE
Leo Zupan, Chicago, Ill., assignor to Sheldon Machine Company, Inc., Chicago, Ill., a corporation of Illinois
Application August 3, 1940, Serial No. 350,524
7 Claims. (Cl. 74—217)



3. A power transmission drive comprising, in combination, a bracket having a mounting plate, a shaft journaled on said plate, an intermediate plate pivotally mounted on said bracket in generally parallel relation to said first mentioned plate, a clutch shaft journaled on said intermediate plate, a base plate pivotally mounted on said bracket in generally parallel relation to said first mentioned plate, a motor mounted on said base plate and having a motor shaft, a selective speed belt drive connecting said first two mentioned shafts, a selective speed belt drive connecting said clutch shaft and said motor shaft, each of said drives including a clutch, said clutches being associated with said clutch shaft, adjustable means interconnecting said plates to secure them in different selective relative angular positions, and means adapted to transmit power from said first mentioned shaft.

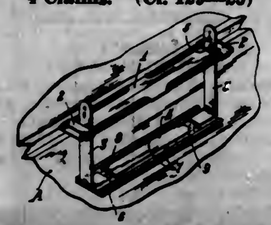
2,280,183
JOINT FOR NONMETALLIC PIPES AND GASKETS THEREFOR
Charles E. Bennett, Ridgewood, N. J.
Application February 11, 1941, Serial No. 378,343
1 Claim. (Cl. 285—142)

In a floating pipe joint comprising inner and outer tile pipe members of the bell and spigot type and defining between them an annular space, a resilient gasket for sealing said annular space while permitting deflection of adjacent pipe sections without fracturing the bell and without breaking the seal provided by the gasket, said gasket being provided with an annular flange adapted to be interposed between the end of the spigot and the bottom of the bell, a hollow integral rim for the flange adapted to extend into the said annular space between the bell and spigot, the said rim being of the same general shape as the said annular space but larger in size so as to require the flange when in place to



be under some compression thereby to take up any irregularities in the walls of said annular space and provide for bonding the rim to the spigot and bell throughout both the inner and outer faces of the rim, the edge of the gasket rim axially of the gasket being of sufficiently increased thickness as compared with the rim side walls as to provide a bearing upon which the pipe sections can roll in flexing the joint, and to provide substantial increased resistance to the squeezing down of the rim side walls to increase the wedging action of the gasket between the bell and spigot.

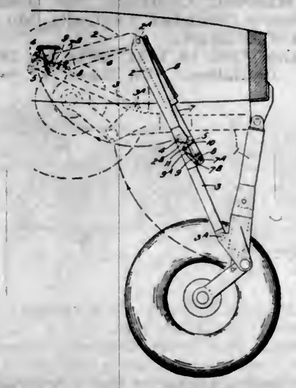
2,280,184
FASTENER
Daniel A. Brennan, Chicago, Ill.; Elmer L. Zwickel, executor of said Daniel A. Brennan, deceased, assignor to Acco Products, Inc., Long Island City, N. Y., a corporation of New York
Application June 21, 1939, Serial No. 280,267
4 Claims. (Cl. 129—25)



4. In a filing device, a base having spaced apart prongs to receive a plurality of sheets of paper threaded thereon and a longitudinal channel in its bottom face between said prongs, a struck out portion of said base at each end extending into said channel, a mounting member, and offset projections on said mounting member for engaging said struck out portions when the base is seated on said mounting member and detachably connecting and retaining said base in superposed relation on said mounting member.

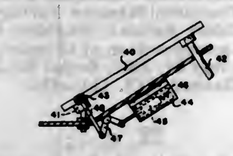
2,280,185
RETRACTABLE UNDERCARRIAGE FOR AIRCRAFT AND LOCKING MEANS THEREFOR
Dennis Gilbert Bridges, Cheltenham, England, assignor to Dowty Equipment Limited, Cheltenham, England
Application April 22, 1940, Serial No. 330,958
In Great Britain June 17, 1939
12 Claims. (Cl. 244—102)

1. Locking means for a retractable aircraft undercarriage, comprising a first detent for down locking, a second detent for up locking, and a



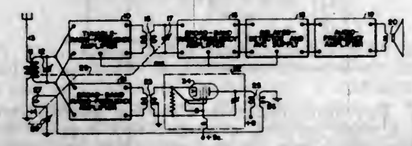
singly notched latch element adapted to engage either detent alternatively by latch-movement in the same sense.

2,280,186
SIGNAL
Stuart H. Caldwell, Detroit, Mich., assignor to Kelch Heater Company, Detroit, Mich., a corporation of Michigan
Application June 19, 1939, Serial No. 279,958
7 Claims. (Cl. 177—324)



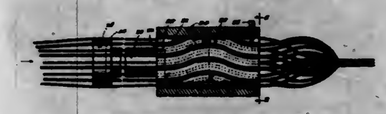
1. A control lever mounted for control movement about a first axis and for signalling movement about a second axis perpendicular to said first axis, and motor means for imparting signalling motion to said lever by pivoting said lever about said second axis.

2,280,187
CARRIER-SIGNAL RECEIVER
Nelson P. Case, Great Neck, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware
Application July 10, 1940, Serial No. 344,648
10 Claims. (Cl. 250—20)



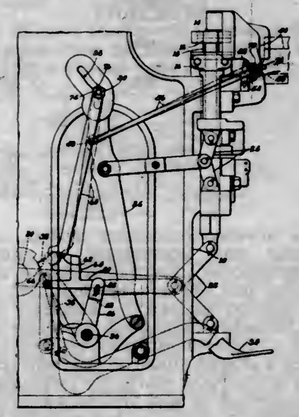
1. A carrier-signal receiver tunable over a range of frequencies comprising, a main signal-translating channel adapted to have applied thereto received carrier signals the amplitude of a desired one of which may be less than that of adjacent undesired carrier signals applied to said channel, an untunable broadly-responsive auxiliary signal-translating channel coupled to said main channel and including limiting means for limiting to a uniform predetermined amplitude level all received carrier signals in the vicinity of and including the desired carrier signal, and signal-translating means selectively responsive to said desired carrier signal for deriving said desired carrier signal from said auxiliary channel and applying it to said main channel to develop therein a desired carrier signal the amplitude of which is in excess of that of said undesired carrier signals.

2,280,188
HEAD FOR USE ON PREFORMED STRAND AND WIRE ROPE MACHINES
Frank B. Downing, Sr., Wilkes-Barre, Pa.
Application March 25, 1940, Serial No. 325,913
5 Claims. (Cl. 57—9)



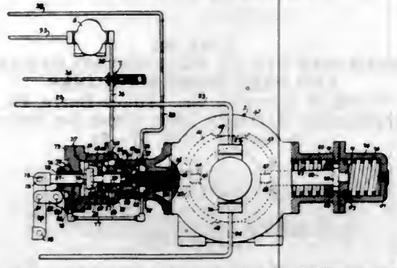
1. A head of the class described comprising an elongated body provided with serpentine grooves formed upon the outer face thereof for receiving wire strands and preforming the strands and guiding these strands throughout the length of the body, said body provided with a central bore for receiving a central strand, a sleeve mounted upon said body and provided with longitudinally extending serpentine grooves for receiving other strands and preforming said other strands, all of the strands being adapted to be twisted together for the purpose of producing a cable.

2,280,189
SAFETY MECHANISM FOR NAILING MACHINES
John A. Duran, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application February 7, 1941, Serial No. 377,877
6 Claims. (Cl. 1—32)



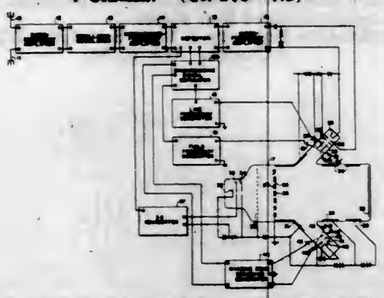
1. In a nailing machine, nail-driving mechanism, a guard movable to shield or give access to said mechanism, operating means for the driving mechanism, a movable controlling member for the operating means, a locking member connected to the controlling member, and a second locking member movable into and out of the path of the first locking member and connected to the guard.

2,280,190
SELF-CENTERING SERVOMOTOR
Walter Ernst, Mount Gilead, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del., a corporation of Delaware
Original application October 21, 1937, Serial No. 170,250. Divided and this application November 6, 1939, Serial No. 302,995
7 Claims. (Cl. 103—38)



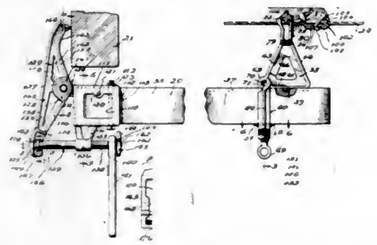
1. In combination in a variable delivery pump with a pump shift ring, a servomotor cylinder, a servomotor piston therein connected to said pump shift ring, a source of pressure fluid for operating said piston, said piston having a chamber therein with valve ports, and a valve member within said chamber cooperating with said ports for controlling the supply of pressure fluid from said source to said piston.

2,280,191
CATHODE-RAY SIGNAL-REPRODUCING UNIT
Rudolf C. Hergenrother, Beechhurst, N. Y., assignor to Haseltine Corporation, a corporation of Delaware
Application September 30, 1939, Serial No. 297,326
7 Claims. (Cl. 178—7.5)



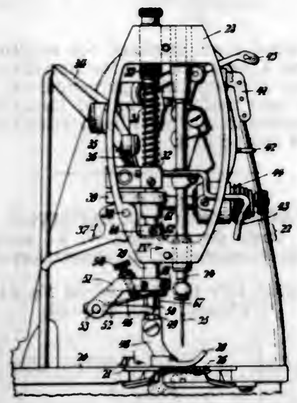
1. In a television receiving system, a signal-reproducing unit comprising, a cathode-ray image-reproducing tube including an apertured grid having one surface of dielectric material and an opposed surface of secondary electron-emissive material, means for scanning said surface with a signal-modulated cathode-ray beam to produce a charge image on said surface, means including an electron source for directing against the other surface of said grid an electron stream for developing a source of low-velocity electrons of substantially uniform density and of a cross-sectional area comparable to the area of said grid, means for physically blocking the direct path of electrons of said stream through said grid, whereby the density of the electron stream passing through said grid is space-modulated by said charge image on said one surface, and means for utilizing said last-mentioned modulated electron stream to produce a visible image.

2,280,192
LINE MAINTENANCE TOOL
David C. Hubbard, Centralia, Mo., assignor to A. B. Chance Company, Centralia, Mo., a corporation of Missouri
Application April 10, 1941, Serial No. 387,883
19 Claims. (Cl. 254—77)



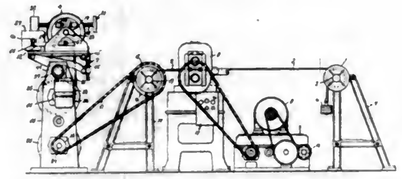
9. In a line maintenance tool a force-applying fixture comprising a metal member adapted to be secured to an insulating bar, a rocker arm lever pivotally mounted on a bearing lug carried by said member, said rocker arm lever having a rearwardly projecting part for engagement with a wooden part of the line, and a threaded member engaging said metal member and adapted to actuate the other end of said rocker arm lever.

2,280,193
QUICK ACTION PRESSER FOOT
Harold J. Le Vesconte, Western Springs, Ill., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application July 21, 1939, Serial No. 285,696
7 Claims. (Cl. 112—235)



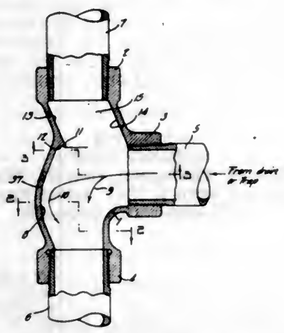
1. The combination in a sewing machine having a work support, a presser-foot support normally held against movement from and toward said work support during sewing, and a presser foot slidably guided by said presser-foot support toward and from said work support, during sewing, of spring means carried by said presser-foot support and reacting thereagainst, and a lever of the third class operatively interposed between said spring means and said presser foot and transmitting the pressure of the spring means to the presser-foot to urge the latter toward said work support.

2,280,194
WIRE OR STRIP TENSIONING APPARATUS
Darcy E. Lewellen and Emmons F. Lewellen, Columbus, Ind.
Application April 15, 1940, Serial No. 329,704
19 Claims. (Cl. 242—45)



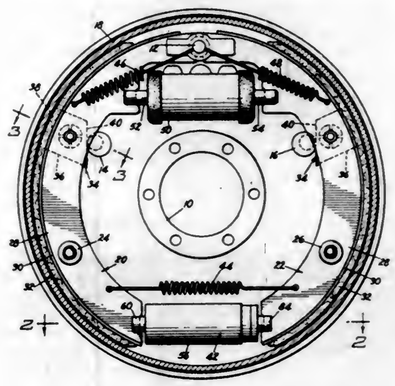
1. An apparatus for winding strip or wire material onto a roll and delivered thereto at an approximate constant rate, said apparatus including a variable speed transmission mechanism for rotating the roll at a rate dependent on the tension of the strip, said mechanism being actuated by a motor, said motor having a portion independent of the rotor and which is adapted to move over a distance dependent on the amount of change of tension in the strip, and means actuated by the movement of said motor portion for changing the power transmission ratio of said transmission mechanism whereby the speed of the roll is changed in accordance with the changed tension of the strip.

2,280,195
GUARDED VENT FITTING
Hugh Long, Los Angeles, Calif.
Application November 20, 1939, Serial No. 305,276
8 Claims. (Cl. 285—210)



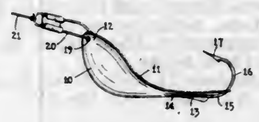
1. In a hollow fitting having openings for connection to a pair of oppositely directed conduits as well as to another conduit that is intended to be angularly displaced from said pair, a wall forming a surface in said fitting opposite the opening for said other conduit, said surface having a sloping configuration extending substantially across the opening of said other conduit, to guide substantially all of the liquid entering from said other conduit into one of the pair of oppositely directed conduits and away from the other of the pair, and a ridge extending partly around the said surface and opposite the edge of said opening, and overhanging said surface, to prevent separation of the stream of liquid between said pair.

2,280,196
BRAKE
Andrew O. McCollum, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California
Application June 17, 1939, Serial No. 279,750
14 Claims. (Cl. 188—79.5)



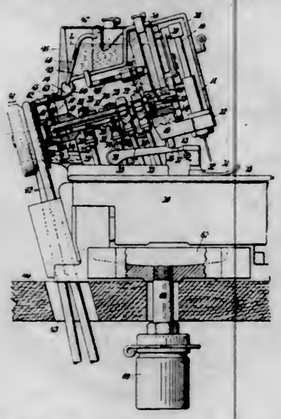
9. A brake comprising a fixed support, a rotatable drum associated therewith, a pair of friction elements on the support having linings for cooperation with the drum, means for actuating the elements, means cooperating with the drum for adjusting the friction elements proportionately to wear of the linings, and a unitary hydraulic coupling between the friction elements independent of the actuating means operative to extend its overall length between the friction elements to compensate for movement of the friction elements upon readjustment thereof due to wear of the linings.

2,280,197
FISH LURE
Richard Herbert Ounsworth, Minneapolis, Minn.
Application June 28, 1940, Serial No. 342,961
1 Claim. (Cl. 43—42)



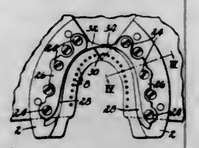
A fish lure comprising a body member in the shape of a fish having a head, a tail and an intermediate portion, said body member being relatively straight at the tail and being curved longitudinally intermediate its ends to form a bight on the inside thereof at the intermediate portion of the member to cause the tail of the body member to make an angle with respect to the head thereof of between ninety and one hundred twenty degrees, said body member being curved transversely at the vicinity of said bight to form an arcuate concavity in the body member disposed on the same side as said bight, means at the head of the body member for attaching it to a line, and a hook at the opposite end of the body member, said hook having a shank following along said tail and a point extending outwardly from the inside of the body member.

2,280,198
LUBRICATING SYSTEM
Albert C. Peterson, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application April 2, 1940, Serial No. 327,387
10 Claims. (Cl. 184—6)
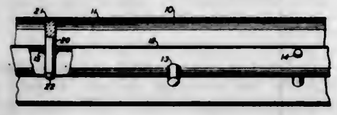


1. A lubricating system for machines having a shaft, a bearing in which the shaft is journalled, and a rotary actuator on the shaft beyond the bearing, said system comprising an oil reservoir, a flow connection leading from the reservoir and entering the bearing through a port at right angles to the shaft, a lengthwise duct in the shaft leading from the region of the bearing to the rotary actuator, a return connection leading from the shaft duct beyond the rotary actuator to the reservoir, a pump means for circulating the oil in the system, including a groove which extends part way around the shaft within the bearing in the plane of the port, and a radial port at the trailing end of the groove as considered with reference to the direction of shaft rotation, which communicates into the shaft duct.

2,280,199
HEEL-END LASTING MACHINE
Edward Quinn, Saugus, and Everett G. Hathaway, Salem, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application June 10, 1941, Serial No. 397,500
4 Claims. (Cl. 12—14)



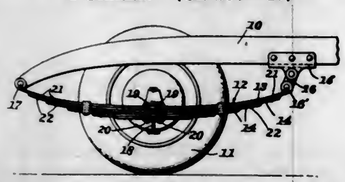
1. In a heel-end lasting machine, wipers for wiping the margin of an upper inwardly over an insole on a last around the heel end of the last, said wipers being movable lengthwise and widthwise of the last to positions predetermined independently of the shoe and last in thus operating on the upper and having in angular relation to their wiping faces abutment faces curved lengthwise of the edge of the last bottom to correspond to the desired contour of the edge of the heel seat when the wipers are in said predetermined positions, said abutment faces being arranged to apply to the upper adjacent to the edge of the heel seat inwardly directed shaping pressure limited substantially to an area of the upper located beyond the last heightwise of the last.

2,280,200
CONCENTRIC CONDUCTOR TRANSMISSION LINE
Phillip H. Smith, Denville, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 16, 1940, Serial No. 329,862
3 Claims. (Cl. 174—28)



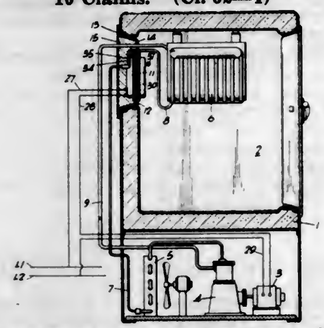
1. A concentric conductor transmission line comprising tubular inner and outer conductors, said inner conductor having a plurality of pairs of diametrically aligned openings, each of said pairs comprising openings having different diameters, the opening of larger diameter being provided with a perimeter depressed below the outer surface of the inner conductor, and insulators to maintain concentric spacing between said conductors, each insulator comprising two portions of different diameters and a shoulder formed at the junction of said two portions, each insulator being disposed in one of said pairs of aligned openings such that the portion of the smaller diameter is positioned in the opening of smaller diameter and is terminated on one end substantially at the outer surface of the inner conductor with the shoulder in engagement with a portion of the inner surface of the inner conductor in the vicinity of the opening of the smaller diameter, and such that the portion of the larger diameter is positioned in the opening of larger diameter to engage the depressed perimeter thereof and extend from the shoulder to the inner surface of the outer conductor.

2,280,201
SPRING LINER
Tom H. Thompson, Detroit, Mich.
Application April 7, 1941, Serial No. 387,289
4 Claims. (Cl. 267—47)



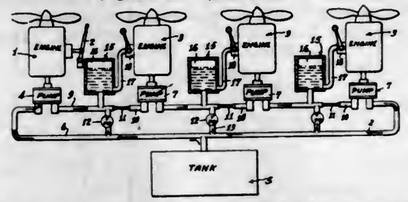
1. A spring of the class described including superimposed leaves, said leaves adjacent their ends having openings therein, a liner between each adjacent pair of leaves, said liner having retaining means projecting into one of the openings, one of each pair of adjacent leaves when the spring is displaced being movable relative to its adjacent leaf, each liner on the same side as the retaining means, having a coating of friction producing material and on its opposite side having a friction reducing surface so as to prevent shearing of the retaining means when the spring is displaced.

2,280,202
REFRIGERATING APPARATUS
Raymond E. Tobey, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 21, 1940, Serial No. 320,043
10 Claims. (Cl. 62—4)



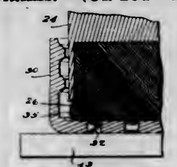
1. In refrigeration apparatus, the combination of a chamber to be refrigerated, cooling means at least a part of which abstracts heat from the chamber, means for circulating refrigerant through said cooling means, and a plurality of temperature-responsive means each having switch means associated therewith for rendering said circulating means active when the temperature-responsive means closes all the switch means and inactive when said temperature-responsive means opens one or more of said switch means, one of said temperature-responsive means being influenced primarily by the temperature of the media in said chamber and another being conjointly influenced by the temperature of the media surrounding said chamber and the temperature of a portion of said cooling means, so that the temperature of the media in said chamber is maintained within relatively narrow limits.

2,280,203
MECHANISM FOR SYNCHRONIZING MULTIPLE PRIME MOVERS
Harry A. Toulmin, Jr., Dayton, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware
Original application March 13, 1939, Serial No. 261,678. Divided and this application December 4, 1939, Serial No. 307,441
9 Claims. (Cl. 60—97)



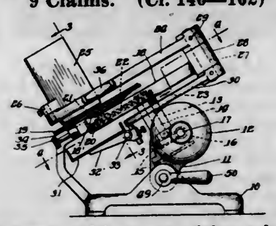
7. In a mechanism for synchronizing multiple prime movers, a liquid pump driven by a master prime mover, a restriction in its outlet for causing it to build up liquid pressure, a liquid pump driven by a subsidiary prime mover having its inlet connected to the outlet of said first-named pump on the side of said outlet located beyond said restriction, pressure-responsive means associated with said subsidiary prime mover and adapted to control the speed thereof in accordance with the pressure transmitted to it, and means for transmitting the pressure built up between said first-named pump and said restriction to said pressure-responsive means.

2,280,204
METHOD AND MEANS FOR REMOVING FLASH
Parker C. Tracy, Toledo, Ohio, assignor to Owens-Illinois Glass Company, a corporation of Ohio
Application April 24, 1941, Serial No. 390,130
6 Claims. (Cl. 164—125)



1. The method of removing a web or flash from an article which comprises applying pressure to the article and to the part to be removed therefrom through the intermediary of a solid, expansible and compressible material, and causing the said web or flash to be removed by the deformation of said material.

2,280,205
SLICING MACHINE
Wilhelmus Adrianus van Berkel, Clarens, Montreux, Switzerland, assignor to U. S. Slicing Machine Company, La Porte, Ind., a corporation of Indiana
Application March 7, 1938, Serial No. 194,488
In Great Britain March 20, 1937
9 Claims. (Cl. 146—102)

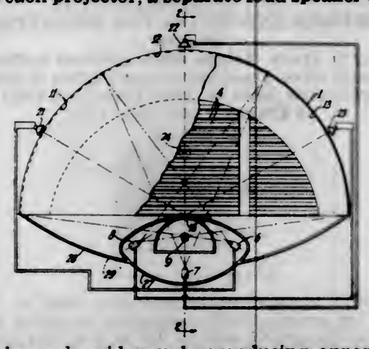


1. A slicing machine comprising a base, a horizontal pivot rod carried by the base, a supporting member carried by the pivot rod and having vertical pivotal movement throughout various angles about the pivot rod, co-operating locking means between the base and supporting member to lock and maintain the base and supporting member in adjusted position, a rotatable member to lock or release the co-operating locking means, a knife supporting frame rigid with the supporting member, a knife inclined to the horizontal revolubly mounted on the frame, an arm swingingly mounted on said frame above the knife, and a substance support carried by the arm.

2,280,206
MOTION PICTURE THEATER
Fred Waller, Huntington, and Ralph Walker, Chappaqua, N. Y., assignors to Vitarama Corporation, New York, N. Y., a corporation of New York
Application September 14, 1937, Serial No. 163,712
4 Claims. (Cl. 88—16.2)

1. A motion picture theater comprising, in combination, a projection screen having a substantially spherical surface covering substantially the

entire normal field of vision of a spectator, a plurality of projectors arranged to project images against contiguous areas covering substantially the entire surface of said screen, a separate sound reproducing apparatus operated in connection with each projector, a separate loud speaker oper-

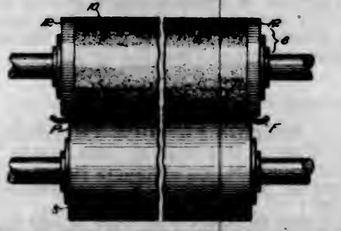


ated by each said sound reproducing apparatus, each of said loud speakers being located adjacent a different projection area of said screen and distributed both horizontally and vertically around said screen, whereby a three dimensional directional sound effect is associated with a three dimensional visual effect.

2,280,207
HYDROHALOGENATION OF OLEFINS
Hein Israel Waterman, Delft, and Jacob Jan Leendertse, Overveen, Netherlands, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application January 15, 1940, Serial No. 313,928. In the Netherlands February 1, 1939
8 Claims. (Cl. 260—663)

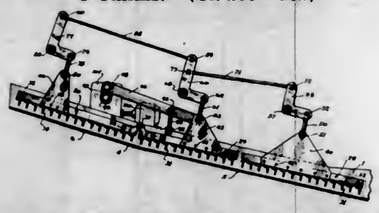
7. In a process of producing alkyl halides, the steps of contacting olefins with a hydrogen halide in the presence of an ether solution of a complex compound formed by the interaction of an aluminum halide with ether, and effecting the hydrohalogenation reaction at a temperature of between about —10 C. and about +50° C., thereby producing high yields of alkyl halides while inhibiting the polymerization of the olefins.

2,280,208
PRESS ROLL
Robert J. Wilkie, Newton, Mass., assignor to Stowe-Woodward, Inc., Newton Upper Falls, Mass., a corporation of Massachusetts
Application August 24, 1938, Serial No. 226,509
2 Claims. (Cl. 92—49)



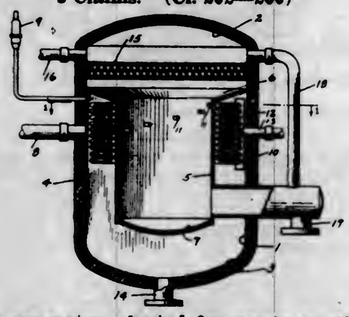
1. A press roll for paper making machines comprising a rubber binder having pieces of rock intermingled therewith and forming a portion of the active surface of the roll, the end portions of the roll being of the same diameter as the intervening portion and being free of rock at the surface thereof.

2,280,209
CLASSIFYING RAKE
David M. Wright, Agricola, Fla., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application September 22, 1939, Serial No. 296,155
3 Claims. (Cl. 209—462)



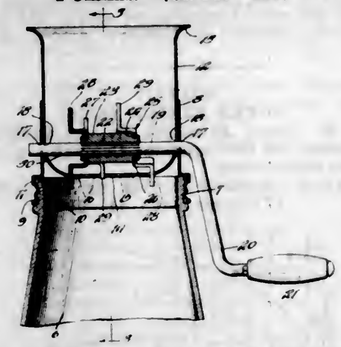
1. A classifier comprising a trough having a bottom with a relatively long substantially flat section and at the upper end of said trough a relatively short section with a greater slope than the first section, a classifying rake with a relatively long substantially flat operating zone, hinged to the upper end of which is a shorter rake, the whole of said rake adapted to operate substantially parallel to and along the bottom of said trough, means for moving said rake substantially parallel to and upwardly along the bottom of said trough, raising said rake with relation to the bottom of said trough, returning the rake in the raised position to the extent of its backward position, and lowering said rake to the bottom of said trough, which last mentioned means comprises bell crank levers mounted at the opposite ends of the more nearly horizontal portion of the classifying rake and at the upper end of the more inclined portion of the rake, links connecting said bell crank levers with said rake and with each other, a rotatable shaft, a crank means rigidly secured to said shaft and a lever connecting said crank means with the bell cranks, means for feeding the material to be classified into the lower end of said trough, and means for removal of classified material.

2,280,210
GENERATOR
Glenn F. Zellhoefer, Bloomington, Ill., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill., a corporation of Illinois
Application December 16, 1938, Serial No. 246,030
3 Claims. (Cl. 202—200)



1. A generator adapted for use in an absorption type apparatus for separating by distillation a liquid solution of a relatively volatile refrigerant and a relatively nonvolatile solvent therefor, which comprises a separating chamber, a steam jacket enclosing said chamber, means for passing steam into said jacket and removing condensate therefrom, a plurality of flat tubular coils spaced in vertical relationship surrounding the chamber within the steam jacket with their adjacent ends opening into the chamber, said ends being arranged around the side walls of the chamber in spaced relationship around the periphery thereof and adapted to discharge said solution in a direction substantially tangential to said walls, means for introducing said solution into the opposite ends of said coils, means for withdrawing the undistilled, relatively nonvolatile solvent from the separating chamber, and means for withdrawing the relatively volatile distilled refrigerant vapors from the separating chamber.

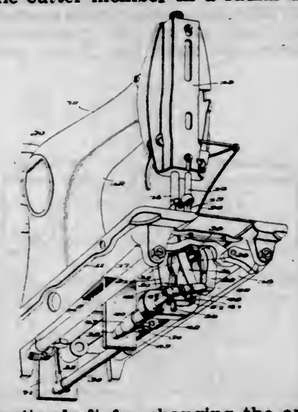
2,280,211
MACHINE FOR CHOPPING NUT MEATS
Rudolph Bernhardt, Chicago, Ill.
Application August 1, 1940, Serial No. 349,326
4 Claims. (Cl. 146—123)



1. A device of the character set forth comprising a cylindrical base having means at the lower end for securing it to a receptacle, a cylindrical hopper fitting tightly in the base and having an integrally formed slotted bottom providing a plurality of bars, a crank shaft extending through holes in the base and hopper adjacent to the lower end of the hopper and serving to hold the base and hopper together, a sleeve fixed on the shaft within the hopper, and blades extending radially from the sleeve and adapted to register with the slots whereby they will cooperate with the bars for chopping or cutting purposes.

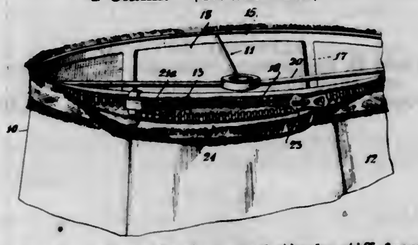
2,280,212
TUFTING MACHINE
John H. Boyles, Rome, Ga., assignor to The Dellinger Spread Company, Rome, Ga., a company of Georgia
Application October 25, 1938, Serial No. 236,930
11 Claims. (Cl. 112—79)

1. A tufting attachment for a sewing machine having a vertically reciprocable needle comprising a bearing block, a pair of longitudinally disposed parallel rock shafts separately mounted in said block and projecting through the front face thereof in side by side spaced relation, a looper hook rigidly mounted at the end portion of one shaft and adapted to oscillate horizontally across the path of said needle, a cutter member rigidly mounted at the end portion of the other shaft and adapted to engage the looper hook and oscillate vertically in shearing contact with an edge portion of the looper hook, and means for bodily moving the cutter member in a radial direction



relative to its shaft for changing the amplitude of movement relative to the looper and independently of the looper.

2,280,213
LAMP SHADE
Elisabeth Brown, Plainfield, N. J.
Application March 2, 1940, Serial No. 321,857
1 Claim. (Cl. 240—108)

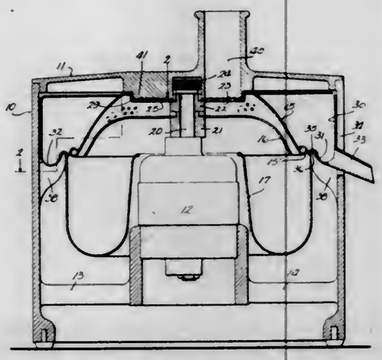


In a lamp shade having a relatively stiff frame with an upper ring, a lower ring and a plurality of circumferentially spaced tie rods connecting said rings, the combination with a lamp shade body of generally tubular shape and limp material, of means for securing the lamp shade body to the frame and adapted to permit ready removal therefrom and re-attachment thereto, said means automatically aligning the upper and lower peripheries of the body with each other as the body is fastened to the frame and also causing the frame, when the body is secured thereto, to put the body under generally axial tension all around its periphery, whereby the limp lamp shade body automatically is caused to assume its normal intended appearance each time it is fastened to the frame and caused to maintain that appearance while fastened to the frame, said means consisting of separable slide fastening means securing the top edge of the body to the upper ring and securing the bottom edge of the body to the lower ring.

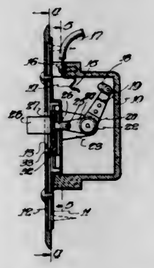
2,280,214
JUICE EXTRACTOR
Eugene Buerk, Milwaukee, Wis.
Application August 12, 1939, Serial No. 289,771
1 Claim. (Cl. 210—68)

A juice extractor including a motor device and

a revolvable power shaft extending upward therefrom, an inverted bowl shaped separator upon the upper portion of said shaft, a juice receiving receptacle thereabout, and a pulp receiving receptacle comprising an annular member about said motor device, the outer lips of said pulp receiving receptacle being in pulp receiving position adjacent the periphery of the bowl shaped separator, and a deflector mounted upon the shaft below the separator and extending over the motor and into the pulp receiving receptacle to protect the motor.

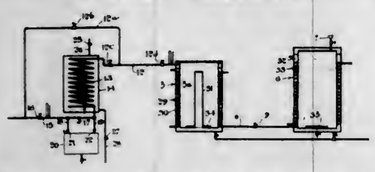


2,280,215
ELECTRIC SWITCH
Arnold D. Cammisano, Chicago, Ill., assignor of one-third to Solly Botansky, Chicago, Ill.
Application October 30, 1940, Serial No. 363,469
2 Claims. (Cl. 200—167)



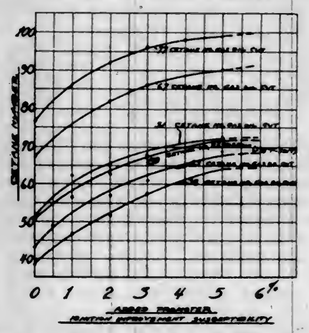
1. An electric switch comprising a support; a hub mounted in said support for pivotal and lateral movement; an operating rocker arm carried by said hub; a slide mounted on said support and having a slot and pin connection with said operating arm permitting of relative lateral movements; a projecting knob on one end of said hub; a corresponding knob on said support cooperating therewith; a compression spring serving to press said knobs into cooperative relationship so as to serve as spring detents for yieldingly holding said hub in either of its adjusted positions; a switch rocker arm on said hub; a transverse insulated switch bar carried by said switch arm; and a pair of switch terminals arranged on opposite sides of the path of said switch bar so as to be electrically connected thereby when said switch arm is swung into position between said terminals.

2,280,216
METHOD OF IMPREGNATING FIBROUS MATERIALS
William Boyd Campbell, Montreal, Quebec, Otto Maass, Westmount, Quebec, and Ernest Edward Massey, Montreal, Quebec, Canada, assignors to Imperial Tobacco Company of Canada, Limited, Montreal, Quebec, Canada
Application May 5, 1939, Serial No. 271,950
4 Claims. (Cl. 91—70)



4. The method of impregnating paper in the form of rolls with a treating solution consisting of waxes dissolved in the carbon tetrachloride which comprises subjecting the rolls to successive soakings in said solution with intermediate removal of the solvent from the paper by the application of heat and suction, the soakings being carried out at a temperature above the boiling point of the solvent contained in said solution.

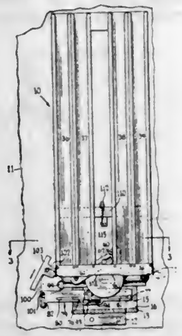
2,280,217
SUPER-DIESEL FUEL
Gould H. Cloud, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application November 30, 1938, Serial No. 243,109
11 Claims. (Cl. 44—9)



1. An improved fuel for compression-ignition engines of the Diesel type which comprises a hydrocarbon fuel having a flash point above 150° F. and a small amount of an alkyl nitrate having at least 10 carbon atoms per molecule.

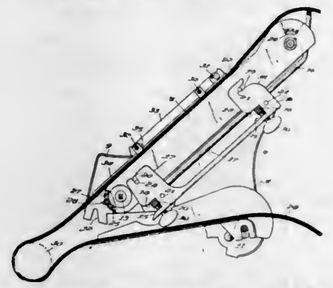
2,280,218
FOUR COLUMN EJECTOR
George E. Cook, Long Island City, N. Y., assignor to U-Need-a-Pak Products Corporation, Brooklyn, N. Y., a corporation
Application December 28, 1939, Serial No. 311,299
13 Claims. (Cl. 312—67)

1. A dispensing device of the character described, comprising two pairs of chutes, a slider at the lower end of each pair of chutes, adapted to slide back and forth from one chute to the other of said pair of chutes, a member formed with a pair of slots, a member rotatably mounted on the first member, a pair of links, a pin on each link slidably engaged within one of said slots, and connected to one of said sliders, said links being formed with slots, pins on said rotary



member engaged within the slots of said links, and means for rotating said rotary member.

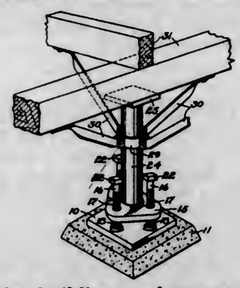
2,280,219
ATTACHMENT FOR TABULATING MACHINES
Allen B. Cooke, Danville, Ill., assignor to United Autographic Register Co., a corporation of Illinois
Original application March 29, 1940, Serial No. 326,737. Divided and this application January 30, 1941, Serial No. 376,681
10 Claims. (Cl. 197—133)



1. A typewriter attachment having fixed cross-bars and a drive-shaft, a cradle member mounted on said cross-bars and means on said cradle member for supporting a feeding-unit, said cradle member comprising a channel-like member having spaced apart jaws adapted to receive the fixed cross-bars, means for securing said jaws to the cross-bars in a desired position along the lengths of the cross-bars, and slots in the cradle to receive studs on the feeding-unit whereby the feeding-unit may be detachably held in said cradle, said drive-shaft being positionable to effect operative engagement with the feeding-unit.

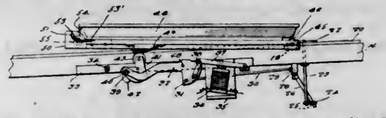
2,280,220
ADJUSTABLE SUPPORT FOR BUILDING STRUCTURES
Howard T. Crosby, Los Angeles, Calif.
Application August 5, 1939, Serial No. 288,601
2 Claims. (Cl. 72—77)

1. An adjustable supporting structure for buildings including a base, an adjusting member, means mounting said member for movement toward and away from said base, an elongated member extending from said base and cooperative with said adjusting member for holding it against lateral displacement with respect to said base, a pier post mounted on said adjusting member intermediate said member and the floor



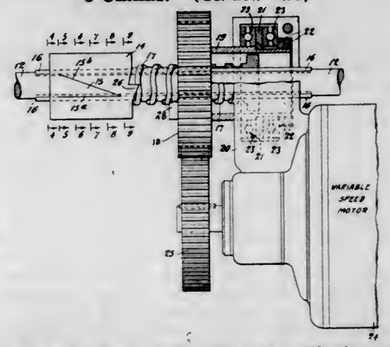
structure of a building, and means securing the upper end of said pier post to said floor structure.

2,280,221
SERVING APPARATUS
Emil William Dambach, Jr., Willow Grove, Pa.
Application November 29, 1940, Serial No. 367,838
5 Claims. (Cl. 186—1)



1. In a device of the character described, a conveyer belt, a bed for said belt having notches therein, a tray moved by said belt, means on said bed for disengaging one end of said tray with said belt, and rollers on the other end of said tray engageable in said notches.

2,280,222
COMBINATION FUEL DISTRIBUTING, SPEED GOVERNING, AND STARTING DEVICE FOR DIESEL ENGINES
Peter Das, Peekskill, N. Y.
Application December 5, 1940, Serial No. 368,648
3 Claims. (Cl. 192—20)



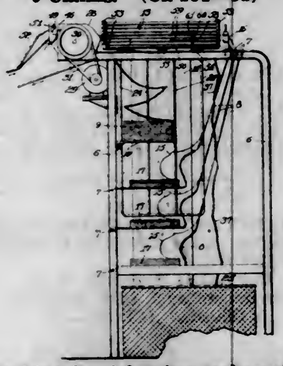
1. In a device of the class described, a drive shaft, a screw coaxially mounted on said drive shaft, an internally threaded wheel threadedly mounted on said screw, a thrust bearing rotatively supporting said wheel, drive means driving said wheel, and catch elements on said screw on opposite sides of said wheel and cooperative with complementary catch elements on the sides of said wheel, whereby if said drive shaft rotates at a greater speed than said wheel said screw will move in one direction until certain of said catch elements engage and then said shaft will drive

said drive means and if said drive shaft rotates at a slower speed than said wheel said screw will move in the other direction until the other of said catch elements engage and then said drive means will drive said shaft.

2,280,223
COATED ELECTRODE AND WELDING ROD
Richard Dümpelmann and Paul Ehlers, Frankfort-on-the-Main, Germany
No Drawing. Application March 6, 1940, Serial No. 322,484. In Germany March 10, 1939
3 Claims. (Cl. 219—8)

1. A welding rod having a core of a hard alloy selected from the class of those comprising high carbon, cobalt-chromium alloys and high carbon, cobalt-tungsten alloys and a coating on said core essentially comprising at least 30% of a carbide of a metal of the fourth, fifth and sixth groups and from about two to about ten per cent of a metal of the same groups.

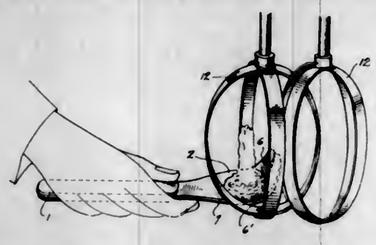
2,280,224
CARBON DELEAVING MACHINE
John E. Euth, Chicago, Ill., assignor to United Autographic Register Co., a corporation of Illinois
Application July 28, 1941, Serial No. 404,435
9 Claims. (Cl. 164—61)



7. A machine for deleaving carbon strips from interconnected continuous-form stationery strips, comprising: a frame over which continuous-form stationery strips interleaved with carbon strips may be drawn under tension; a pair of rear feed-rolls for advancing said interleaved strips; a pair of carbon feed-rolls adapted to engage the carbon strips and separate them from the stationery strips; angularly biased turn-bars in advance of the rear feed-rolls for directing the carbon strips laterally out of interleaved relation; guide-means for directing the separated stationery strips into zigzag folded relation as they advance downwardly under the influence of gravity; electric power-means for driving the feed-rolls; and a control-switch for said power-means having an operating arm resting on the interleaved strips advancing to the frame so that the starting and stopping of the machine is responsive to the tension on said strips.

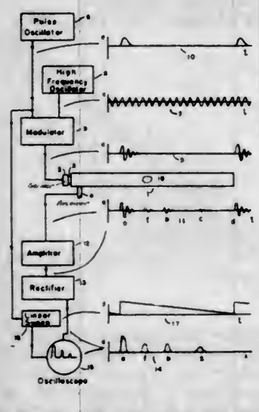
2,280,225
KITCHEN UTENSIL
Josie C. Finely, Seattle, Wash.
Application April 12, 1940, Serial No. 329,297
3 Claims. (Cl. 15—245)

1. A cleaning utensil of the character described having a relatively rigid handle portion, and a scraper mounted at one end thereof; said scraper comprising a relatively thin plate of resilient material extending from the handle and widened



relative thereto, and formed with a slit extending into the body of the plate and with scraping edges defining the opposite sides of the slit, and said plate being curved to hook-like form to better retain material therein.

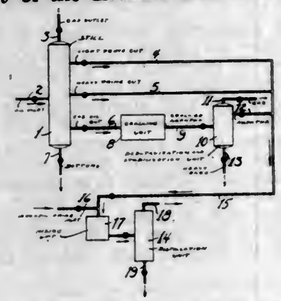
2,280,226
FLAW DETECTING DEVICE AND MEASURING INSTRUMENT
Floyd A. Firestone, Ann Arbor, Mich.
Application May 27, 1940, Serial No. 337,419
11 Claims. (Cl. 250—1)



1. In a device for the interior inspection, exploration, or measurement of a solid part whose maximum dimension is of the order of 10 feet or less, by means of supersonic vibration waves—the combination of means for transmitting a supersonic wave train into said part, and means for determining the time interval between the sending out of said wave train and the arrival of said wave train at some point of the part.

2,280,227
REFINING OF PETROLEUM DISTILLATES
Bruce G. Gillespie, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application September 8, 1939, Serial No. 293,962
4 Claims. (Cl. 196—35)

1. Process for the refining of petroleum distillates for the production of products of improved color and color stability comprising finishing said distillates by distilling the same in the presence of about 1% to 5% of a naphthylamine under conditions to remove overhead at least 90% of the distillate and to remove as a



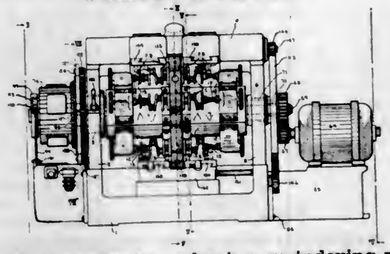
bottoms undistilled oil containing the naphthylamine.

2,280,228
ELECTRON BEAM DISCHARGE DEVICE
Alan M. Glover, East Orange, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 31, 1941, Serial No. 376,737
3 Claims. (Cl. 250—27.5)



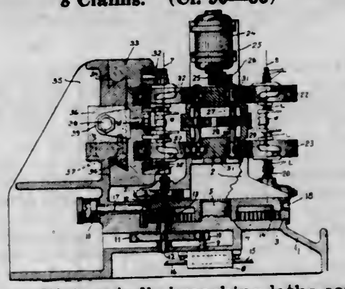
1. An electron discharge device comprising a cylindrical metal envelope adapted to be electrically grounded, a header closing one end of said envelope, lead-in conductors sealed in said header, a metal cylinder, smaller than said envelope, in and extending longitudinally of said envelope, a cathode in the annular space between the envelope and cylinder, a control grid around said cathode, and an output electrode in said annular space on the side of the cylinder opposite said cathode.

2,280,229
MULTIPLE SPINDLE BROACHING LATHE
William F. Groene and Harold J. Siekmann, Cincinnati, Ohio, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware
Application April 30, 1940, Serial No. 332,540
2 Claims. (Cl. 90—33)



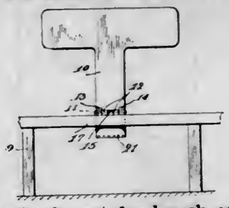
1. In a machine tool having an indexing work carrier, work spindles on said carrier, broaching tools located at indexed stages adapted to tangentially engage work pieces held in the work spindles, means for indexing said carrier member, means for feeding said broaching tools, and control means, operable by the movement of said broaching tools when in fully fed in position, for effecting a partial indexing of said work carrier, means associated with the movement of said carrier for concluding said partial indexing movement of said carrier, and means operable by the return movement of said broaching tools to effect the continuation of said indexing motion after said broaching tools have returned to their fully retracted position.

2,280,230
CRANKSHAFT BROACHING LATHE
Willard L. Groene, Cincinnati, Ohio, assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware
Application September 17, 1940, Serial No. 357,149
8 Claims. (Cl. 90—33)



1. A multiple spindle broaching lathe comprising a horizontally rotatable carrier member, a series of vertically arranged work spindles on said carrier, a horizontally actuated series of broaching cutters located at a work station and adapted to be fed in plane substantially tangent to the direction of indexing movement of the work spindles on said work carrier at said work station, means for indexing said carrier member to selectively present said vertically arranged work spindles at said work station, and means on said carrier for rotating said work spindle at said work station.

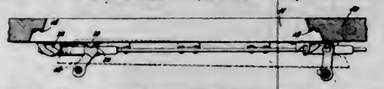
2,280,231
PORTABLE BACK REST
Charles C. Gulley, Lexington, Ky.
Application August 19, 1940, Serial No. 353,289
1 Claim. (Cl. 155—133)



A portable back rest for bench seats comprising, a substantially T-shaped upright member, a horizontal member, the lower end of the upright member being provided with straight portions bent upwardly and inwardly to form part of hinge ears, the rear part of the horizontal member being provided with three straight portions, the two outside straight portions being bent upwardly to form stops to engage in rear of the upright member, the center straight portion being bent upwardly and forwardly to form a hinge ear, a pin engaged through all of said hinge ears, the horizontal member being provided at its front part with a resilient integral clip, said clip including a downwardly extending part and an up-

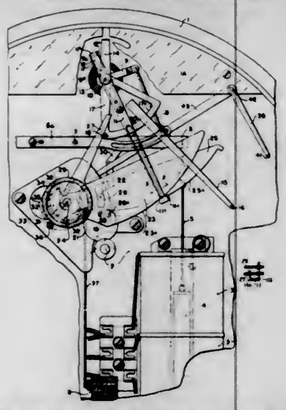
wardly and rearwardly inclined part, said downwardly extending part of the clip being adapted to contact with the front edge of the seat of a bench, said inclined part being adapted to contact with the underside of said seat, the clip when applied to the seat becoming tensioned.

2,280,232
REFRIGERATOR CAR DOOR
Stacy B. Haseltine, La Grange, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application December 27, 1938, Serial No. 247,737
20 Claims. (Cl. 20—23)



5. In a door construction for refrigerator cars having a wall member provided with a door opening, the combination with a sliding door adapted to close said opening; of guide means on said car extending lengthwise of the same; means slidable on said guide means for supporting the door including swinging arms; and fixed cam means on the car engaged by said arms during sliding movement of said door, toward and away from said door opening for positively actuating said arms to swing the same in and out and move said door laterally into and out of the door opening.

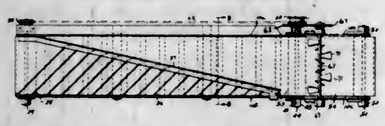
2,280,233
POWER SET FLOW METER
Thomas R. Harrison, Wyncote, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application August 25, 1937, Serial No. 160,742
13 Claims. (Cl. 234—2)



1. In a measuring apparatus, an exhibiting element movable about an axis, an arm moving with said element, means for moving said element and arm periodically, said means consisting of a member responsive to a condition to be measured, a cam for periodically contacting said member at different portions of the cam depending upon the position of the member, means to move said cam to a position free of said member and to permit it to move into contact with said member, a projection on said cam for engaging said arm to move the said arm and element in accordance with the position of the cam when it is contacting the member, and means to prevent only said arm and element from moving when they are not being moved by said projection.

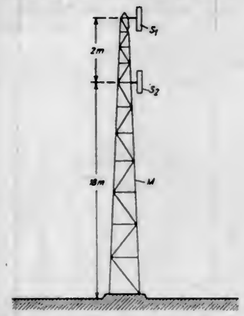
13. In a measuring instrument, a recording arm, a counter, an element movable to a position proportional to the value of a measurable condition, an oscillatable cam having a shaped edge adapted to engage said element, means to move said cam from a predetermined position to a position limited by its engagement with said element, an arm on said cam, means movable with said recording arm adapted to be engaged by the arm on said cam as the latter moves to move the recording arm, a clutch operated in one direction only by said cam as the latter oscillates, and means to actuate said counter from said clutch.

2,280,234
SPREADER
Christian M. Harvey, Cleburne, Tex.
Application February 19, 1940, Serial No. 319,721
4 Claims. (Cl. 275—2)



1. A spreader for earth material comprising a carriage, a laterally extended chute on the carriage including an endless conveyor belt, means for driving the belt to convey the earth material thereon toward the end of the chute, a single series of deflectors on the chute above the belt which are effective to discharge said material conveyed by the belt laterally from the chute, the deflectors diverging forwardly from the line of travel of the belt.

2,280,235
ANTENNA
Waldemar Ilberg, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application April 12, 1941, Serial No. 388,210
In Germany August 16, 1939
8 Claims. (Cl. 250—33)

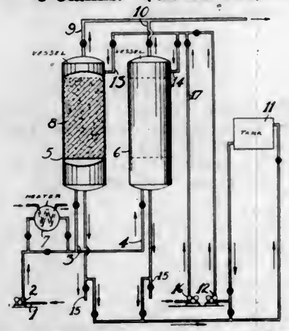


1. An antenna arrangement adapted to operate with decimeter radiant energy waves including a plurality of radiator systems in superposed relationship spaced apart a distance equal to a multiple of the wavelength, said systems being mounted above ground a distance equal to a large multiple of the spacing between said systems, said radiator systems being energized in an opposing phase relationship.

2,280,236
COMPOUNDS OF THE CYCLOPENTANOPOLYHYDROPHENANTHRENE SERIES AND PROCESS OF PRODUCING THE SAME
Hans Herloff Inhoffen, Berlin-Wilmersdorf, Willy Logemann, Berlin-Charlottenburg, and Hans Dannenbaum, Falkenhain-Finkenkrug, near Berlin, German, assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey
No Drawing. Application May 10, 1939, Serial No. 272,756. In Germany May 13, 1938
16 Claims. (Cl. 260—397.4)

1. Process for the manufacture of compounds of the cyclopentano-polyhydrophenanthrene series, wherein steroids containing an ethinyl group are subjected to the action of an agent capable of adding on water to the ethinyl group.

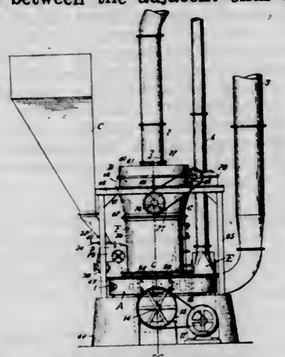
2,280,237
REFINING PROCESS
Minor C. K. Jones, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application August 12, 1939, Serial No. 289,804
8 Claims. (Cl. 196—44)



1. Process for reducing the corrosive action of substantially unemulsified crude mineral oils containing hydrolyzable inorganic salts of alkaline earth metals, comprising contacting said oils with a fixed bed of sodium zeolite.

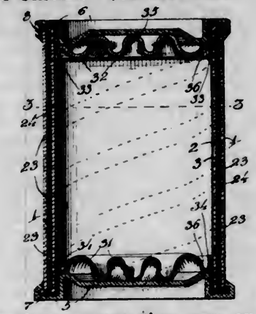
2,280,238
COMBINED MILL AND SEPARATOR
Samuel B. Kanowitz, New York, N. Y., assignor to Combustion Engineering Company, Inc., New York, N. Y., a corporation of Delaware
Application December 31, 1938, Serial No. 248,769
5 Claims. (Cl. 83—45)

1. A grinding and separating unit comprising a mill, a separator positioned above and in direct communication with the mill, and an upright housing for enclosing both the mill and separator, said housing forming an enclosure through which material is carried upwardly in suspension in an air stream from the mill to the separator, and through which material rejected by the separator gravitates toward the mill, the housing being divided intermediate its top and bottom into an upper separator housing having an open lower end and a lower mill housing having an open upper end, a fixed foundation on which the mill assembly comprising the mill housing is supported, means for supporting the separator assembly comprising the separator housing in position above the mill assembly, said latter means comprising uprights supported on the foundation independently of the mill assembly and cross-beams carried by the uprights, means for suspending the separator housing from the cross-beams, and means for sealing the connection between the adjacent ends of the mill



and separator housings, said sealing means permitting relative movements of the housings.

2,280,239
SANITARY PRESERVING CAN OR CONTAINER AND THE MAKING OF IT
Heinrich Karl, Jersey City, N. J.
Application July 15, 1937, Serial No. 153,747
5 Claims. (Cl. 229—3.5)

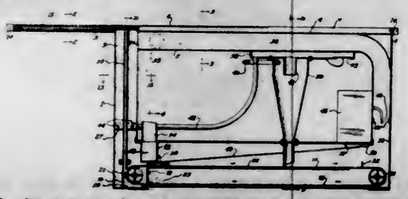


1. In a sanitary preserving can or container constituted in part by a can body with inner and outer walls that consist of a material in blank form that is wound up into the can body, the innermost side of that can body imprinted with a coating of material that is adapted to preserve the contents from fungus and other influences from the non-sterilized air, and all the other parts of that can or container that form part of the innermost side thereof also imprinted with the same material that coats the innermost side of the wall of the can body, and a packing between said inner and outer walls of the can body having metallic narrow parts and dried vegetable matter embedded therein for reinforcing purposes.

2,280,240
METHOD AND APPARATUS FOR IMPINGING POWDERED MATERIAL
Bertram C. Kathe, Detroit, Mich.
Application September 23, 1938, Serial No. 231,349
7 Claims. (Cl. 91—7.5)

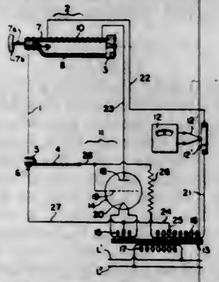
1. An apparatus of the character described comprising a suction chamber, a nozzle therein and having its tip exposed to said chamber, means for supporting the form opposite said tip, a pick-up chamber communicating with said nozzle and adapted to contain powdered material, a blower adapted to withdraw air and excess material from said suction chamber, and a sepa-

rator into which said blower discharges, said separator being adapted to separate the material substantially from the air, and means for returning the separated material to said pick-up chamber, a conduit for receiving the separated air and a small quantity of material from said separator, means for electrically charging the material in said conduit, a fixed member in said conduit and connected to receive a like charge from said charging means, said member being positioned to repel said material to said returning means.



6. An apparatus for coating dry wax surfaces with powdered electroconductive material, comprising a closed impingement chamber and a communicating low pressure chamber, an elongated nozzle in said low pressure chamber and having its tip exposed in said impingement chamber, means for supporting a form in said impingement chamber directly opposite the tip of said nozzle and at one end of said low pressure chamber, a supply chamber adapted to contain powdered material and communicating with the other end of said nozzle, means for maintaining the pressure of said supply chamber near atmospheric pressure, and means for reducing the pressure in said low pressure and impingement chambers, whereby material is conveyed from the supply chamber through the nozzle and impinged at high velocity directly against the form in the impingement chamber and the excess material deflected from said form into said low pressure chamber, a shallow box-like sealing chamber disposed laterally of the tip of said nozzle, a movable form support, means for passing said support through said sealing chamber, sealing dams at either end of said form support and so spaced that one or the other is positioned in the sealing chamber at all times, to substantially prevent the entrance of unwanted air to the impingement chamber.

2,280,241
HUMIDITY MEASURING APPARATUS
Earl A. Keeler, Norristown, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 31, 1938, Serial No. 199,122
12 Claims. (Cl. 73—337)

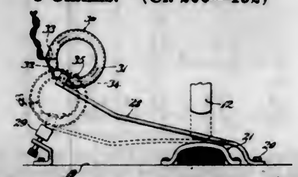


2. Measuring apparatus including an elongated hygroscopic element adapted to expand and contract with changes in humidity of a space in which said element is exposed, a device under control of said element and movable from a predetermined position thereby, said device at all times placing a predetermined load on said element, means under control of said device for resetting said device to said predetermined position on departure therefrom without changing the load on said element, and means for measuring the extent to which said device is reset.

2,280,242
MALEIC ANHYDRIDE-ETHYLENE GLYCOL-METHALLYL ALCOHOL RESIN
Edward L. Kropa and Theodore F. Bradley, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application December 13, 1939, Serial No. 308,958
2 Claims. (Cl. 260—77)

1. A process which comprises partially esterifying 98 parts of maleic anhydride with 85 parts of ethylene glycol and esterifying the resulting product with 29 parts of methallyl alcohol to produce a resinous product.

2,280,243
SWITCH
Harold M. Lang, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application November 27, 1939, Serial No. 306,231
3 Claims. (Cl. 200—152)



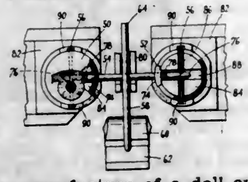
2. A switch comprising a chamber, a single pair of electrodes extending within said chamber, a globule of mercury within said chamber and normally at rest at a point remote from said pair of electrodes, a spring support for said chamber, one end of the spring support being fixed and the free end supporting said chamber in substantially the plane of movement of said spring and means adapted to strike said spring whereby said globule of mercury is forced only once in contact with the pair of electrodes.

2,280,244
DOLL EYE
Samuel Marcus, Jersey City, N. J., assignor to Margon Corporation, Bayonne, N. J., a corporation of New Jersey
Application June 17, 1938, Serial No. 214,189
11 Claims. (Cl. 46—165)



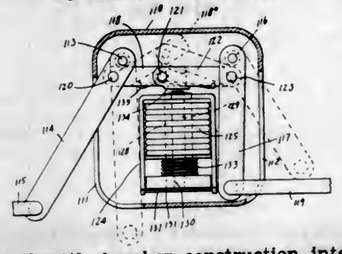
1. A doll eye comprising a generally hemispherical sheet metal shell having a portion indented in frusto-conical form to substantial depth, means on said indented portion to simulate a pupil and iris, and a small transparent lens made of sheet Celluloid by like material, said lens being dimensioned to fit in the aforesaid indented portion and having a convex curvature to complete the generally hemispherical shape of the eye, said lens being provided at its edge with a plurality of projecting tongues, and said shell being provided with mating slots to receive said tongues.

2,280,245
MANUFACTURE OF DOLL EYE ASSEMBLY
Samuel Marcus, Jersey City, N. J., assignor to Margon Corporation, Bayonne, N. J., a corporation of New Jersey
Original application June 17, 1938, Serial No. 214,189. Divided and this application June 28, 1941, Serial No. 400,246
6 Claims. (Cl. 29—148.2)



3. In the manufacture of a doll eye assembly, including eyes loosely mounted on a cross-rod, the method of punching oversized holes in previously imperforate side walls of the eyes while at the same time assembling the eyes on the cross-rod, which includes preliminarily raising rings of metal on the cross-rod to a diameter greater than the normal diameter of the cross-rod, and thereafter forcing the ends of the cross-rod and said raised rings through the aforesaid imperforate side walls of the eyes, the ends of said cross rod punching the holes through the side walls of the eyes and said raised rings making the resulting perforations in the eyes large enough for free movement of the eyes on the cross-rod.

2,280,246
FUEL CONTROL MECHANICAL BREAKER SYSTEM AND INDICATOR
Neel M. McCullough, Anderson, Ind., assignor to Pierce Governor Company, Anderson, Ind., a corporation
Application August 14, 1939, Serial No. 290,053
13 Claims. (Cl. 74—469)

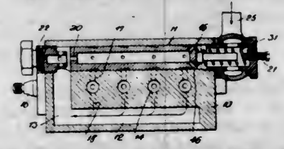


1. A throttle breaker construction interposed between and relatively permanently connected to a pair of members and adapted for "connecting" and "disconnecting" same, including a pair of levers each connected to a member, a pair of pivotally connected members, each pivotally connected to a lever, the pivotally connected members when longitudinally aligned "connecting" said first mentioned members, and power means for moving the pivotally connected member to "disconnected" position.

2,280,247
WAXLIKE PRODUCT AND METHOD OF MAKING THE SAME FROM TALL OIL OR ROSIN AND FATTY ACIDS
Ralph H. McKee, New York, N. Y., and Helmer L. Blengsli, Old Greenwich, Conn.
No Drawing. Application February 25, 1939, Serial No. 258,570
7 Claims. (Cl. 260—97.5)

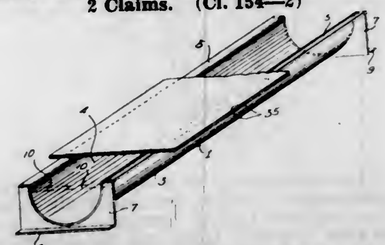
1. The process of producing a wax-like condensation product of unsaturated fatty acids and rosin acids which comprises heating tall oil with an acidic catalyst selected from the group consisting of mineral acids, sulfonic acids, and acid salts of mineral acids and sulfonic acids at a temperature within the distillation range of tall oil, and removing by distillation the unchanged organic acids whereby a wax is produced.

2,280,248
REGULATING PUMP
Samuel Meiswinkel, Gaggenau, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany
Application January 17, 1939, Serial No. 251,326
In Germany January 22, 1938
35 Claims. (Cl. 123—140)



1. A fuel pump comprising a pump casing provided with separate pump cylinder spaces, a common inlet passage provided with channels leading to the individual spaces, a return passage provided with channels leading from said spaces, a fuel controlling element in the said inlet passage responsive to the pressure of the fuel in said return passage, and a throttling device arranged between the return passage and the inlet passage.

2,280,249
METHOD OF FORMING LAMINATED PRODUCT
Paul Edwin Meyer, Kenmore, N. Y., assignor to Certain-teed Products Corporation, New York, N. Y., a corporation of Maryland
Application December 17, 1937, Serial No. 180,345
2 Claims. (Cl. 154—2)



1. Method of producing from sheet material a cylindrical product which comprises laminating with an adhesive therebetween which is capable of setting a plurality of flat sheets of fibre board each having a thickness of the degree of ⅛" but capable of flexure to a cylindrical shape in a semi-circular arc though having a resistance to flexure which is capable of substantially restoring said sheet to its flat form upon release from

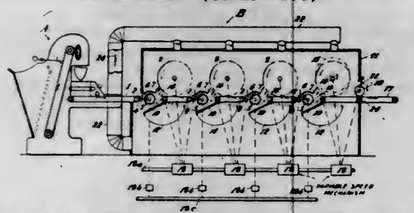
flexure, flexing said sheets in contact with each other substantially without exceeding said resistance thereof into said semi-circular cylindrical shape while said adhesive is in unset condition so that said sheets can slip relative to each other and independently take shape while maintaining contact with each other, applying a pressure substantially uniformly distributed upon the faces of said flexed sheets to press them together, and maintaining the sheets in said flexed condition under said pressure until said adhesive substantially has set.

2,280,250

LAP FORMING BLOWING MACHINE

Louis P. Miller, Walden, N. Y., assignor to Miller-Jonas Holding Co., Inc., Walden, N. Y., a corporation of New York

Application June 12, 1940, Serial No. 340,048
14 Claims. (Cl. 19—155)



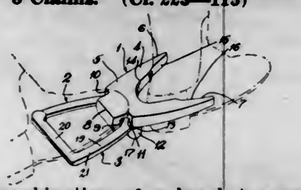
1. In a lap forming blowing machine, the combination of a housing, a pair of feed rolls, a picker roll located adjacent said feed rolls and adapted to be rotated at a high speed to produce an air current which positively carries the fibers picked by the picker roll, a cylindrical screen member mounted adjacent said picker roll and adapted to receive and collect the fibers carried by said air current, a baffle located closely adjacent the upper portion of said picker roll and extending between one of said feed rolls and said cylindrical screen to direct said air current through said cylindrical screen, a movable baffle board beneath said picker roll, and a conveyor belt beneath said cylindrical screen and in close proximity thereto.

2,280,251

COMBINATION BOOTJACK DEVICE

Michael S. Mirski, New York, N. Y.

Application November 1, 1940, Serial No. 363,859
8 Claims. (Cl. 223—115)



1. The combination of a bracket comprising an intermediate portion, two outwardly extending jaw members having outwardly flaring graduated boot receiving faces, and an enlargement having a transversely extending angular opening therethrough extending from said intermediate portion; a pair of hook members, each having an intermediate shank, an extension at one end of said shank and a hook arm at the other end of said shank, the extensions being angular in transverse cross section and conformed snugly to cooperate with one another in said angular opening to form a platform; and a second enlargement extending from said intermediate portion to form a perch or fulcrum to enable the jaw members to be raised into boot receiving position when the platform is depressed.

2,280,252

PRODUCING REINFORCED CONDUITS

Ernest Muehleck, Rydal, Pa., assignor to Keasbey & Mattison Company, Ambler, Pa., a corporation of Pennsylvania

Application July 4, 1939, Serial No. 282,831
4 Claims. (Cl. 154—2)



1. A process for production of a reinforced pipe or conduit of fiber cement composition comprising accumulating successive layers of an unset plastic fiber cement composition to build up a pipe or conduit into a plastic cylinder, shaping a metallic wire or strand into the form of a helix independent of the pipe or conduit and adapted to fit the surface thereof, and feeding said helix on to the plastic cylinder while the latter is in a plastic condition by flexing the coils of the helix within their elastic limit and permitting them to reflex into engagement with the surface of said cylinder.

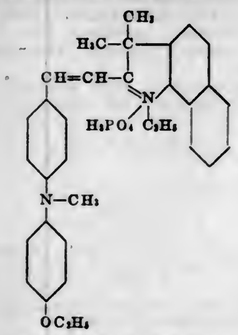
2,280,253

DYESTUFFS OF THE METHINE SERIES

Werner Müller, Cologne, and Carl Berres, Leverkusen-Wiesdorf, Germany, assignors to General Aniline & Film Corporation, a corporation of Delaware

No Drawing. Application August 1, 1939, Serial No. 287,750. In Germany April 26, 1935
1 Claim. (Cl. 260—240)

The dyestuff of the formula



dyeing acetate artificial silk deep violet shades of very good fastness properties.

2,280,254

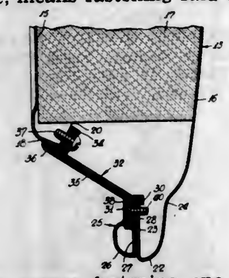
REFRIGERATOR

Alfred E. Nave, Newburgh, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware

Application July 10, 1940, Serial No. 344,708
4 Claims. (Cl. 20—35)

1. Refrigerator cabinet wall structure having

spaced inner and outer panels, a wall member fastened to said panels to hold said panels in said spaced relation, said wall member comprising a substantially flat rigid strip having a rib on one face, means fastening said rib to one of



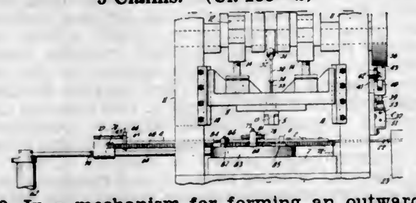
said panels, means fastening one edge of said strip to the other of said panels, and a cover strip having a part held by said last means, and a flexible part covering the edge of said strip and said last fastening means.

2,280,255

APPARATUS FOR MAKING HEADERS

William M. Parker, Robert A. Gray, and John E. Gray, Port Huron, Mich., assignors to Mueller Brass Co., Port Huron, Mich., a corporation of Michigan

Application August 12, 1940, Serial No. 352,194
5 Claims. (Cl. 153—2)



2. In a mechanism for forming an outwardly flanged opening in the wall of tubing, the combination of separable clamping jaws adapted to embrace the tubing, a mandrel positioned between the jaws and within and substantially fitting the tubing to retain the form of the tubing, a cylindrical, radially movable die member, said mandrel having a cylindrical recess for said die member, and means for supplying fluid under pressure to said recess to force the die member outwardly through the wall of the tubing, said die member being formed to pierce an opening in the tube wall and flange outwardly the metal surrounding the opening during the outward movement of the die member; and an exterior plunger acting through the flanged opening for moving the die member radially inwardly to restore it to its normal position in the cylindrical recess.

2,280,256

POLYMERIZATION OF MALEIC ACID-LINSEED OIL FATTY ACIDS - ETHYLENE GLYCOL-ALLYL ALCOHOL RESIN

Donald G. Patterson, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application December 13, 1939, Serial No. 308,953
1 Claim. (Cl. 260—22)

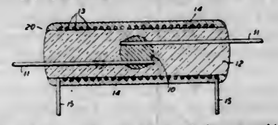
A process which comprises polymerizing by heating in the presence of benzoyl peroxide a resin obtained by the esterification of maleic acid and linseed oil fatty acids simultaneously with ethylene glycol and allyl alcohol, the molal ratio of the maleic acid, linseed oil fatty acids, ethylene glycol and allyl alcohol being about 4:0.13:2.1:4.4 respectively, said esterification being effected by heating the reactants in admixture with an inorganic solvent and azeotropically distilling a mixture including allyl alcohol, water and the inorganic solvent, and separating the water from the distillate and returning the non-aqueous fraction of the condensate to the reaction chamber, the esterification being continued until the acid number is about 6–7 and distilling off volatile material at about 140–150° C. at about 1–5 mm. of mercury absolute pressure, said heating being continued until a hard resinous material is obtained.

2,280,257

RESISTOR DEVICE AND METHOD OF MAKING THE SAME

Gerald L. Pearson, Towaco, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application July 25, 1939, Serial No. 286,307
12 Claims. (Cl. 201—64)



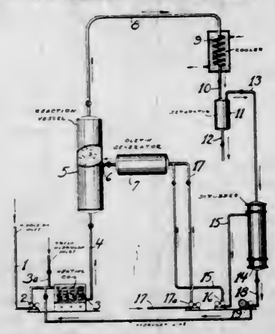
1. An indirectly-heated resistor unit comprising a bead of semiconductive material having conductive leads attached thereto, a hollow glass rod fused around and in intimate contact with said bead and a portion of said leads, and a heater coil around said glass rod and held in contact therewith by a glass-like cementing material fused around said coil and rod.

2,280,258

MANUFACTURE OF LIQUID HYDROCARBONS

Mathias Pier, Heidelberg, Germany, assignor, by mesne assignments, to William E. Currie, New York, N. Y.

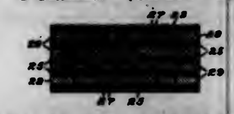
Application March 1, 1939, Serial No. 259,114
In Germany March 2, 1938
5 Claims. (Cl. 196—53)



1. In a process for the destructive hydrogenation of hydrocarbon oils which comprises passing a hydrocarbon oil with added hydrogen through a reaction zone in contact with a hydrogenation catalyst at a pressure above 20 atmospheres and a temperature of about 350° to 510° C., to produce gasoline and middle oil, the

step of introducing gaseous olefines into the reaction zone in an amount of at least 10 per cent by weight of the oil treated at a point where the oil has already undergone considerable splitting.

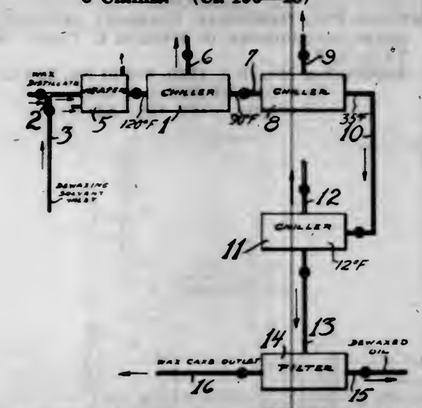
2,280,259
PRODUCTION OF ARTICLES WITH VISCOUS COATINGS
Robert W. Polley, Nashua, N. H., assignor to Nashua Gummed and Coated Paper Company, Nashua, N. H., a corporation of Massachusetts
Application July 24, 1940, Serial No. 347,256
3 Claims. (Cl. 164—17)



2. A method of making articles of sheet material which have at least a partial coating of material viscous at ordinary atmospheric temperatures which comprises applying the coating as a stripe along a web of sheet material, sheeting the web and assembling a pile of the sheets, so refrigerating at least the coated areas substantially to eliminate ropiness of the coating material, and dividing the pile by a cut intersecting said stripe while the work is so refrigerated.

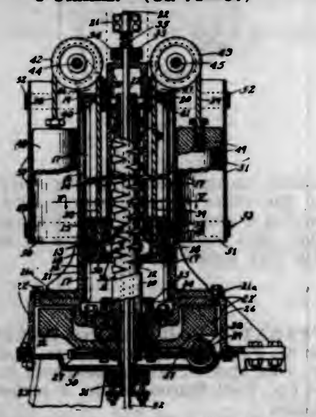
3. The method of cutting articles from blanks having rubber latex coatings thereon which comprises assembling a pile of the blanks with at least the coating in the non-ropy condition characteristic of congelation to a temperature much below normal atmospheric temperatures, and dividing the pile along lines intersecting the coated areas.

2,280,260
SOLVENT DEWAXING PROCESS
Oldrich S. Pokorny, Sarnia, Ontario, Canada, assignor to Standard Oil Development Company, a corporation of Delaware
Application November 19, 1938, Serial No. 241,327
3 Claims. (Cl. 196—13)



1. Process for removing waxy constituents from a petroleum oil waxy distillate comprising adding to said distillate about one and one-half volumes of methyl normal butyl ketone per volume of distillate, heating the mixture to a temperature of about 120° F., rapidly chilling the mixture from this temperature in an initial cooling stage to about 90° F., slowly chilling the mixture in a secondary cooling stage from about 90° F. to about 35° F., rapidly chilling the mixture in a final cooling stage from about 35° F. to about 12° F., and then filtering the chilled mass to remove the waxy constituents.

2,280,261
RECIPROCAL MOTION DEVICE
Vester O. Pounds, Enid, Okla.
Application March 17, 1941, Serial No. 383,732
3 Claims. (Cl. 74—57)

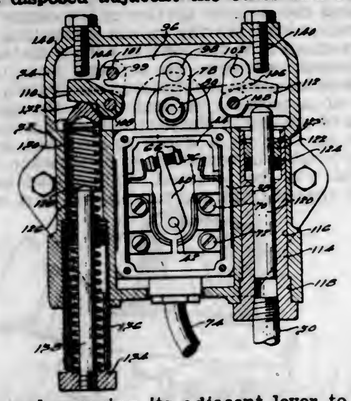


1. In a pumper device for wells; a housing element supported on legs, an elevator housing carried on the first said housing, an elevator element, said elevator element being housed within the elevator housing element being movable longitudinally therein and means incident to the elevator housing and the elevator therein for preventing the rotary movement of said elevator element, a rotatable tubular element positioned within said elevator element, said rotatable tubular element being carried in bearings carried by the first said housing element, and means on one end of said rotatable tubular element for rotatably driving said rotatable tubular element, the outside of said rotatable tubular element having right and left hand threads therein that cross each other and merge both into the other at the ends thereof, a tiltable thread element carried by said elevator element and being positioned in said threads so as to elevate and lower said elevator element upon rotation of said rotatable element, a thrust bearing carried on the upper end of said elevator element, and means for supporting a pump actuating rod thereon.

2,280,262
PRESSURE SWITCH
Hugo Purat, Detroit, Mich., assignor to Progressive Welder Company, Detroit, Mich., a corporation of Michigan
Application December 12, 1940, Serial No. 369,729
5 Claims. (Cl. 200—82)

1. A pressure switch structure comprising a snap switch including a shiftable actuating arm to cause closing and opening of said switch, and pressure responsive means operatively connected to said arm for shifting said arm, said means comprising a beam member pivotally connected intermediate its ends to said arm, lever members operatively connected to the opposite ends of said beam member, a plunger disposed adjacent one end of said beam member, means movably mounting said plunger for movement in one direction in response to predetermined pressure increase, said plunger being so positioned that

it engages its adjacent lever when moved in said one direction to shift said beam, and resilient means disposed adjacent the other end of said



beam and engaging its adjacent lever to resist the movement of said plunger in said one direction.

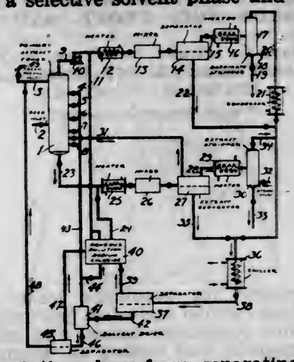
2,280,263
CONTAINER CLOSURE AND DISPENSER FOR SEMILIQUID PRODUCTS
George D. Rechten, Los Angeles, Calif.
Application August 23, 1939, Serial No. 291,570
4 Claims. (Cl. 221—147)



1. A dispensing device and closure member comprising a barrel member adapted to be secured in the opening of a container, said barrel member having a discharge opening in the outer end thereof and being provided with a plurality of openings in the sides at the inner end thereof, a shaft member longitudinally disposed with respect to said barrel and mounted for slidable axial movement with respect thereto, said shaft member having at its inner end a plunger cooperating with the bore of said barrel and being movable by said shaft member between a position interior of said openings and a position near the outer end of said barrel, and a closure member mounted on the outer end of said shaft, said closure member entering said discharge opening on inward travel of said shaft.

2,280,264
SOLVENT TREATING PROCESS
Edward D. Reeves, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application August 19, 1939, Serial No. 290,956
7 Claims. (Cl. 196—13)

1. Process for the removal of the selective solvent from the raffinate and extract phases respectively secured in the solvent treatment of mineral oils when utilizing a water soluble selective solvent comprising treating the respective phases with a hot aqueous inert inorganic salt solution under conditions to separate an oil phase and a selective solvent aqueous salt solution phase, separating and cooling said latter phase whereby a selective solvent phase and an aque-

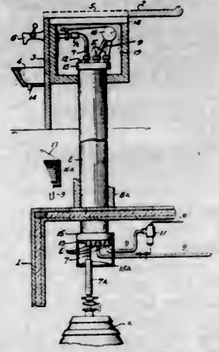


ous salt solution phase form, separating said latter phases and recycling the same to said solvent treating process.

2,280,265
LAXATIVE
Albert Regensburger, Nuremburg, Germany
No Drawing. Application December 19, 1938, Serial No. 246,671. In Germany February 3, 1938
2 Claims. (Cl. 167—56)

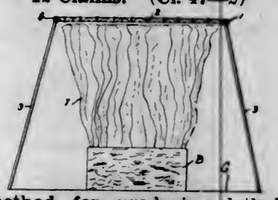
1. Laxative, containing germinated and roasted linseeds as laxative ingredient.

2,280,266
CONDUCTING AND DISPENSING SYSTEM FOR BEER
Harry J. Sandell, Long Beach, Calif.
Application April 30, 1940, Serial No. 332,591
1 Claim. (Cl. 62—141)



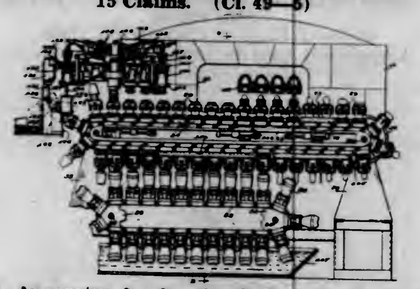
In a system of the class described, the combination comprising an elongated casing or conduit extending from a source of liquid supply to a closed substantially airtight compartment or chamber closely adjacent a dispensing outlet, said casing having end closure members, a dispensing pipe and refrigerating pipes extended through said casing, members and chamber, said members being provided with means of tight connections at points of entry and exit of said pipes, means to regulate the temperature therein, means of temperature holdover comprising a liquid filled cylinder or container in contact with said refrigerating pipes in said chamber, a fin extending from said cylinder or container providing means of direct refrigeration to said dispensing outlet, means of entry to said chamber.

2,280,267
METHOD AND APPARATUS FOR TREATING ORCHARDS FOR FROST AND PLANT PESTS
Lloyd G. Schultz, New York, N. Y.
Application February 1, 1940, Serial No. 316,784
12 Claims. (Cl. 47—2)



4. A method for producing lethal smudge smoke, which method comprises producing a free flaring flame containing carbon and lethal sulphur compounds, and cooling an unconstrained horizontal upper zone of said flame to quench said flame at said zone while allowing free passage of constituents of the flame to pass through the zone, thereby allowing the gaseous sulphur compounds to be absorbed in particles of unburned carbon and to pass together through said zone in the form of a lethal blanketing smoke having the double function of killing harmful organisms and preventing frost.

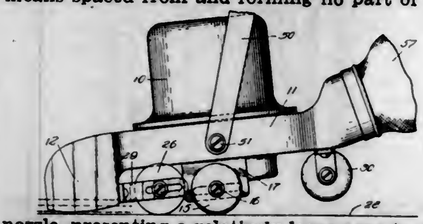
2,280,268
APPARATUS FOR MAKING HOLLOW GLASS ARTICLES
Harold R. Schutz, Toledo, Ohio, assignor to Libbey Glass Company, a corporation of Ohio
Application July 9, 1938, Serial No. 218,484
15 Claims. (Cl. 49—5)



1. Apparatus for forming hollow glass articles comprising a chain of blank-holding spindles, means for causing the spindles to travel in a closed path comprising a horizontal section through which the spindles move while held in an upright position and a horizontal straight line section through which they travel in an inverted position, means for attaching individual, segregated blanks to said spindles while the spindles are in upright position, means for blowing and developing the blanks in the open, finishing molds, means for closing the finishing molds around the blanks and for causing the finishing molds to travel with the inverted spindles, and means for blowing the blanks in the finishing molds.

2,280,269
SUCTION CLEANER
Charles H. Sparklin, Chicago, Ill., assignor to Birtman Electric Company, Chicago, Ill., a corporation of Illinois
Application April 11, 1938, Serial No. 201,382
3 Claims. (Cl. 15—16)

1. A vacuum cleaner comprising, in combination: a casing; suction means, an electric motor, and driving connections therebetween housed in said casing; a transversely elongated suction nozzle at the forward portion of the casing; rolling, major-load-bearing means presenting a relatively small area for contact with a material to be cleaned, operating on a single axis parallel with said nozzle in a vertical plane slightly rearward of a parallel vertical plane through the center of gravity of the device, and of a size and shape to sink to a depth determined by the characteristics of resistance to penetration of the material to be cleaned; minor-load-bearing means spaced from and forming no part of said



nozzle, presenting a relatively large area to contact with the material to be cleaned, connected to said casing to contact said material forwardly of said center-of-gravity plane a substantially greater distance than the spacing of the major-load-bearing means from said plane, and projecting slightly below the opening of said nozzle to preserve a minimum spacing of the nozzle from the normal height of the surface of said material; the relationship of the areas and shape of the respective load-bearing means being such that the nozzle is automatically maintained at a substantially uniform spacing from the normal height of the surface to be cleaned irrespective of said characteristics.

2,280,270
NUT LOCK
Arthur Merrick Stoner, West Hartford, Conn., assignor to The Jacobs Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application September 2, 1939, Serial No. 293,186
3 Claims. (Cl. 151—21)



1. A lock nut having a body constructed with a threaded cylindrical bore, a transversely curved slot with its axis of curvature parallel with the axis of the bore and with its ends terminating in the inner periphery of the bore cut into the body from one of its faces toward the opposite face to partially separate a minor portion of the threaded part of the body transversely and longitudinally, and a radially disposed set screw in the body arranged to bear against said partially separated portion.

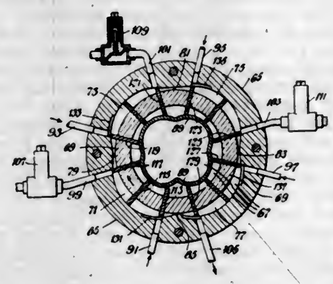
2,280,271
FLUID PUMP
Alan P. Sullivan, Elizabeth, N. J., assignor to Cities Service Oil Company, New York, N. Y., a corporation of Pennsylvania
Application March 15, 1940, Serial No. 324,178
1 Claim. (Cl. 103—7)

In a rotary piston pump, a housing with a bore, a rotary cylindrical piston mounted eccentrically within said bore and dimensioned to provide a lunate chamber between its periphery and the walls of the bore, a plurality of spaced radial slots in said piston and blades mounted therein for reciprocal movement with their outer ends in constant wiping contact with the walls of the bore, fluid suction and discharge ports in the housing opening respectively into the chamber adjacent opposite ends thereof, a relief port in the housing opening into the chamber at a point between and spaced from the suction



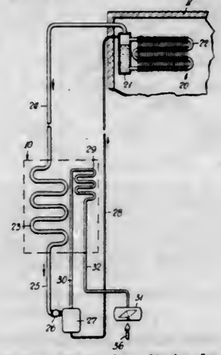
and discharge ports at the compression end of the chamber, and a peripheral groove in the wall of said bore connected with and forming an extension of said relief port, said groove having a length in the direction of piston rotation sufficient to insure some release of fluid through the relief port, and said groove beginning at least X° beyond the point of maximum clearance between the rotor and housing where $X=180°$ divided by the number of blades on the piston.

2,280,272
FLUID PUMP
Alan P. Sullivan, Elizabeth, N. J., assignor to Cities Service Oil Company, New York, N. Y., a corporation of Pennsylvania
Application May 13, 1940, Serial No. 334,718
7 Claims. (Cl. 103—7)



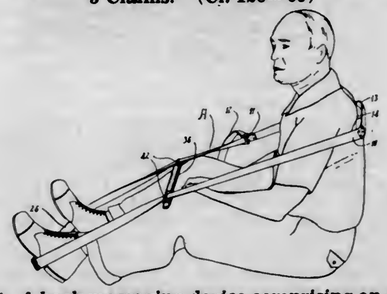
1. A fluid mixing pump comprising a housing, a chamber contained therein, a rotor having radial slots mounted to rotate in said chamber, a plurality of blades slidably mounted in the rotor slots, the side walls of said chamber being so designed as to form a guide face for the outer edge of the blades which is eccentrically placed with respect to the rotor and which is shaped so as to touch the circumference of the rotor at one sealing zone only and so as to alternately recede from and approach the circumference of the rotor without touching at other points to form a series of connected compartments in open communication with each other, a pressure regulating port in the compression side of each compartment, a suction port in each compartment, and a discharge port in the last compartment of the series.

2,280,273
REFRIGERATION
Robert S. Taylor, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application May 14, 1940, Serial No. 335,077
9 Claims. (Cl. 62—125)



2. A heat transfer circuit including an evaporator, a condenser at a level below that of said evaporator and connected to receiver vapor from said evaporator, and a vessel connected to receive liquid from said condenser and deliver liquid to said evaporator respectively upon decrease and increase of pressure in said vessel, and means to cause said pressure changes including a second condenser connected to receive vapor from said circuit, a heater communicating with said vessel, and means for intermittently delivering liquid from said second condenser to said heater.

2,280,274
VERTEBRAE MANIPULATING AND MASSAGING DEVICE
Henry E. Wildermuth, St. Paul, Minn.
Application February 12, 1940, Serial No. 318,417
3 Claims. (Cl. 128—69)

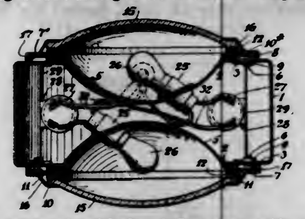


1. A back massaging device comprising an elongated rigid transverse member, a pad thereupon designed to engage the back, a second elongated rigid transverse member designed to be engaged by the feet, a strap means secured longitudinally to said first named transverse member, slidably connected longitudinally to said second named transverse member, and means for adjusting the length of said strap.

2,280,275
VEHICLE SIGNAL DEVICE
Frank C. Young, Cranford, N. J.
Application November 5, 1940, Serial No. 364,413
5 Claims. (Cl. 177—329)

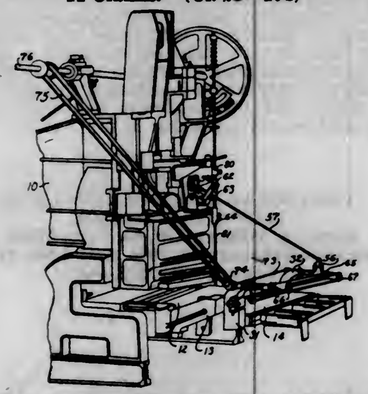
1. In a signal device, a cylindrical casing com-

posed entirely of thin metal having radially extending internally directed flanges at the ends thereof, circularly shaped reflectors of thin metal having radially extending flanges with axially extending short flanges at the outer edges thereof



with the ends of said short flanges resting against the sides of said first named flanges, and removable means passing through the radially extending flanges of said reflectors and said first named flanges to keep them in assembled relation.

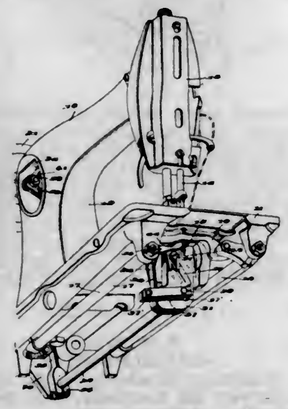
2,280,276
BRICK MACHINE MOLD TRIMMER
Frederick M. Antibus, Jr., and Harry D. Caylor, Indianapolis, Ind., assignors to C. & G. Potts & Co., Indianapolis, Ind., a corporation of Indiana
Application June 21, 1940, Serial No. 341,644
11 Claims. (Cl. 25—104)



1. In a brick molding machine, a table, molds movable over said table, means for intermittently moving said molds over the table, the forward end of the table being arranged to be vertically shiftable, means for lowering said forward table end when said molds are being moved thereover and for lifting the table at the end of the mold travel, stationary clay cutting means extending across said shiftable end of the table and spaced thereabove and positioned to have said molds lift and stop thereagainst upon said lifting of the table end, means receiving clay cut from above said molds by said cutting means, and means intermittently driven in sequence with said molds for shifting said receiving means to dump the clay therefrom.

2,280,277
TUFTING ATTACHMENT
Thomas J. Amos, Rome, Ga., assignor to W. E. Dellinger, Floyd County, Ga.
Application May 5, 1939, Serial No. 271,957
1 Claim. (Cl. 112—79)

In a tufting machine of the character described, a work support base, a reciprocatory needle, work feed mechanism, means for operating the needle and work feed mechanism in timed relation including a longitudinally disposed rotatable power shaft located above the work support and having a plurality of cam members thereon, a longitudinally disposed rock shaft located below the work support, a looper blade device, means rigidly mounted directly on the front end of said rock shaft and adapted to oscillate the looper blade toward the path of the needle including an arm having a horizontal opening at one end for receiving the rock shaft, and a vertical opening at the other end for receiving a rigid support for the looper blade, a shear blade formed on said looper, a second shear blade pivotally mounted on the front side of the looper blade and cooperating with said first shear blade to sever loops of thread, an arm rigidly mounted on the rear end

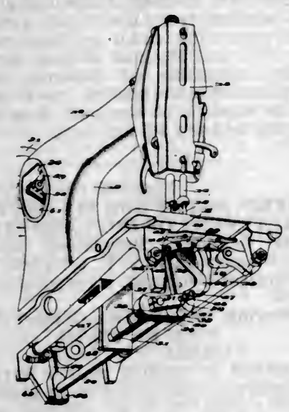


of said looper rock shaft and extending upwardly to one side of a cam on said power shaft, a substantially horizontal pivoted link connection between the cam and the upper extremity of said arm, whereby a lateral rocking motion is directly imparted to the looper from the power shaft, and said looper, shear blades, and needle are operated in direct timed relation, a depending bracket member supported beneath the work base by a single lug member, said bracket supporting the looper and cutter devices adjacent the front face thereof and including a pair of apertures formed therein, one of said apertures accommodating the operating rock shaft for the looper and cutter members and the other aperture accommodating an adjustable arm forming a fixed pivot for the second shear blade, and means for laterally adjusting the arm relative to the second shear blade.

2,280,278
TUFTING MACHINE
Thomas J. Amos, Rome, Ga., assignor to W. E. Dellinger, Floyd County, Ga.
Application May 5, 1939, Serial No. 271,958
7 Claims. (Cl. 112—79)

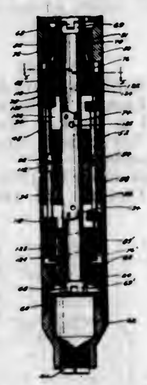
1. A tufting attachment for sewing machines comprising in combination with a work supporting base, a depending bracket having a pair of parallel openings therein, a shaft member projecting through each opening and supported therein for rocking movement, a floating looper hook member, a vertically disposed rod having one end rigidly mounted on one rock shaft and the free end pivotally connected to one end of the looper member, a vertically disposed cutter member rigidly mounted on the other rock shaft

and having its free end connected to the intermediate portion of said looper member, and a



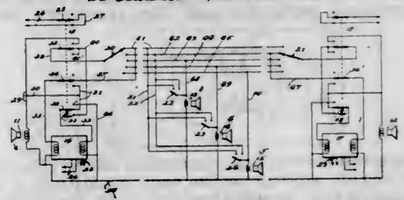
driving connection between the shafts for operating the same in synchronism.

2,280,279
WELL PUMP
Walter Brauer, Oklahoma City, Okla.
Application June 29, 1940, Serial No. 343,221
3 Claims. (Cl. 103—155)



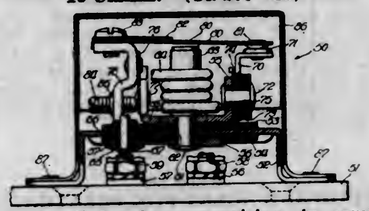
1. A deep well pump comprising a tubular cylinder having a plurality of longitudinally arranged plunger bores, reciprocating plungers operating in the bores, a plurality of valve bores arranged in the cylinder in spaced relation on to the plunger bores, a combination intake and discharge valve structure arranged in the valve bores, means providing communication between the plunger bores and the valve bores, inlet means provided in the outer periphery of the cylinder and communicating with the valve bores, rotatable driving means extending through the cylinder and having upper and lower spools arranged thereon, a spiral shaped groove for each of the spools arranged in opposite directions to each other, a plurality of ball bearings arranged in each of the spool grooves, and means connected at the outer ends of each of the plungers and cooperating with the ball bearings for causing reciprocation of the plungers due to rotation of the driving means.

2,280,280
COMMUNICATION SYSTEM
Richard H. Campbell, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a corporation of Delaware
Application November 4, 1940, Serial No. 364,133
14 Claims. (Cl. 179—40)



1. A unit for use at a station in an intercommunicating system of the loudspeaking type, including in combination, an amplifier, a voice reproducer, and means for connecting said voice reproducer to the output of said amplifier and for rendering said amplifier operative with reduced "B" potential.

2,280,281
CIRCUIT BREAKER
Harold H. Clayton, Logansport, Ind., assignor to R-B-M Manufacturing Company, Logansport, Ind., a corporation of Indiana
Application October 5, 1939, Serial No. 297,995
15 Claims. (Cl. 200—88)

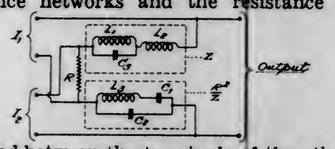


1. A circuit breaker comprising, in combination, a pair of contacts, a bimetallic element carrying one of said contacts, an electromagnet adapted to attract said bimetallic element, and a compensating bimetallic member operatively connected with said bimetallic element and adapted to compensate for the effect of change in ambient temperature on said bimetallic element, the solenoid of said electromagnet and said bimetallic element being in series circuit relationship when said contacts are closed, under normal current flow through the circuit breaker said bimetallic element and said electromagnet biasing said contacts together, and said contacts being separated with snap action when excessive current flows causing said bimetallic element to flex so as to separate the contacts and thereby to deenergize said electromagnet and allow the contacts to spring apart.

2,280,282
ELECTRICAL COUPLING CIRCUITS
Christopher Dering Colchester, Sanderstead, and Arthur Tisso Starr, Chelmsford, England, assignors to Radio Corporation of America, a corporation of Delaware
Application November 5, 1940, Serial No. 364,430
In Great Britain August 31, 1939
8 Claims. (Cl. 178—44)

2. A coupling circuit for coupling two alternating current input circuits of different frequencies to a common output circuit, comprising a

first impedance network, a resistance and a second impedance network serially connected in the order named between the two conductors of the output circuit, the series connection of one of the impedance networks and the resistance being connected between the terminals of one input circuit, the series connection of the other of said impedance networks and the resistance being



connected between the terminals of the other input circuit, said networks each consisting of inductance and capacitance and each presenting a high impedance to currents of the frequency of the input circuit between the terminals of which it is connected and a low impedance to currents of the frequency of the input circuit between the terminals of which it is not connected.

2,280,283

DEEP-HARDENING BORON STEELS

Walter Crafts, Niagara Falls, N. Y., assignor to Electro Metallurgical Company, a corporation of West Virginia

No Drawing. Application January 5, 1940, Serial No. 312,491

10 Claims. (Cl. 75—123)

1. Method of imparting increased deep-hardenability to a hardenable steel which comprises adding to such steel while it is molten between 0.1% and 2% of silicon, at least 0.001% but materially less than 0.05% boron, and at least one grain refining element in a total percentage greater than that required for grain refinement and between 0.03% and 1%.

2,280,284

METHOD AND AGENT FOR TREATING IRON AND STEEL

James H. Critchett, Douglaston, and Walter Crafts, Niagara Falls, N. Y., assignors to Electro Metallurgical Company, a corporation of West Virginia

No Drawing. Application October 2, 1940, Serial No. 359,342

2 Claims. (Cl. 75—58)

1. A method of treating molten ferrous metal which comprises adding thereto a grain-refining amount less than 1% of an addition agent consisting of 25% to 85% silicon; iron; at least one element of the group consisting of beryllium, magnesium, calcium, barium, strontium, and boron, in an aggregate percentage between 1% and 15%; and at least one element selected from the group consisting of titanium, zirconium, cerium, hafnium, and thorium, the total percentage of the element or elements of the latter group being between 3% and 18%.

2,280,285

METHOD AND AGENT FOR TREATING MOLTEN IRON AND STEEL

James H. Critchett, Douglaston, and Walter Crafts, Niagara Falls, N. Y., assignors to Electro Metallurgical Company, a corporation of West Virginia

No Drawing. Application October 2, 1940, Serial No. 359,343

2 Claims. (Cl. 75—58)

1. A composition of matter, suitable for use as an addition agent for treating molten ferrous metal, consisting substantially of 25% to 85% silicon; iron, 3% to 20% aluminum; at least one element selected from the group consisting of beryllium and boron, in an aggregate percentage between 0.1% and 5%, and at least one metal of the group consisting of titanium, zirconium, cerium, hafnium, and thorium, the total percentage of the element or elements from the latter group being between 3% and 20%.

2,280,286

ADDITION AGENT AND ITS USE IN THE TREATMENT OF IRON AND STEEL

James H. Critchett, Douglaston, and Walter Crafts, Niagara Falls, N. Y., assignors to Electro Metallurgical Company, a corporation of West Virginia

No Drawing. Application October 2, 1940, Serial No. 359,344

2 Claims. (Cl. 75—58)

1. A method of treating molten ferrous metal which comprises adding thereto a grain-refining amount less than 1% of an addition agent consisting of 25% to 85% silicon; iron; 3% to 20% aluminum; at least one element of the group consisting of beryllium and boron, in an aggregate percentage between 0.1% and 5%; at least one element of the group consisting of magnesium, calcium, barium, and strontium, in an aggregate percentage between 1% and 15%; and at least one element selected from the group consisting of titanium, zirconium, cerium, hafnium, and thorium, the total percentage of the element or elements of the latter group being between 3% and 20%.

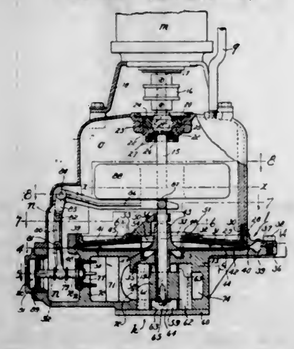
2,280,287

LIQUID DISPENSING APPARATUS

Warren H. De Lancey, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts

Application September 19, 1939, Serial No. 295,595

1 Claim. (Cl. 103—5)



Separating apparatus for removing air from liquid motor fuel in dispensing systems, comprising, casing means having a single air separating chamber vented near the upper part thereof to the atmosphere, a centrifugal pump chamber immediately below the separating chamber and having its inlet extending through the lower wall and opening directly into the base of the separating chamber, and a displacement pump chamber also below but close to the separating chamber and to the first pump chamber; a centrifugal pump impeller mounted in the first pump chamber, a positively-acting displacement pump rotor mounted in the second pump chamber, a common power shaft for driving said impeller and rotor, said casing means having inlet and outlet passages for the displacement pump, said inlet passage adapted for direct connection to a supply tank of said fuel, said outlet passage leading directly into said separating chamber, said casing means having an outlet passage for the centrifugal pump, the displacement pump having a capacity at least as great as the centrifugal pump; said displacement pump sucking up the liquid and/or air and fuel vapor from the supply tank, compressing any vapor to liquefy it and pushing the liquid and/or air into the separating chamber under substantially no pressure, whereby the liquid in the separating chamber is maintained substantially quiescent and at substantially atmospheric pressure to enable effective separation of the air, said centrifugal pump taking liquid directly from said separator chamber under substantially no pressure and forcing such liquid through its outlet, said centrifugal pump also preventing the passage of air and forcing it to rise through the liquid in the separating chamber and out through said vent.

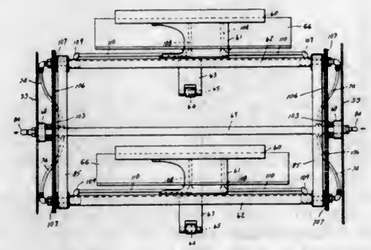
2,280,288

MULTIPLE BUCK PRESSING MACHINE

Harry D. Forse, Anderson, Ind.

Application January 25, 1940, Serial No. 315,474

13 Claims. (Cl. 38—22)



1. In a pressing machine, a single pressing head structure, a pair of buck structures, means connecting the bucks together for rotation about a fixed axis and rotation about the axes parallel thereto and offset therefrom, means coincident with each axis, and endless means simultaneously and operatively associated with all last mentioned means and arranged to maintain the bucks in the same relative position at all times.

2,280,289

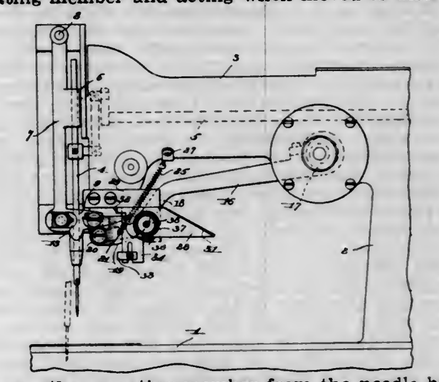
SEWING MACHINE

John G. Gerber, Rochester, N. Y., assignor to E. P. Reed & Co., Rochester, N. Y., a corporation of New York

Application July 18, 1940, Serial No. 346,078

14 Claims. (Cl. 112—158)

1. In a sewing machine adapted for making a zigzag stitch, the combination with a reciprocatory needle bar and a needle bar frame in which the needle bar is mounted, of a reciprocating operating member associated with the needle bar frame and acting to move the latter back and forth to produce a zigzag stitch, an interlocking member on the needle bar frame, the reciprocating operating member having a recess in its upper edge and movable upwardly to bring said recess into engagement with the interlocking member on the needle bar frame, and a manually operated device engageable with said operating member and acting when moved to disengage the operating member from the needle bar frame.



2,280,290

METHOD OF PREPARING $\alpha\alpha\beta$-TRIHALOGEN SUBSTITUTED BUTYRALDEHYDES

Le Roy B. High, Detroit, Mich., assignor to The Udylite Corporation, Detroit, Mich., a corporation of Delaware

No Drawing. Application January 13, 1940, Serial No. 313,688

12 Claims. (Cl. 260—601)

3. A method for preparing $\alpha\alpha\beta$-trihalogen-substituted butyraldehyde comprising the steps of introducing a dry hydrogen halide from the group consisting of hydrogen chloride and hydrogen bromide into crotonaldehyde until the hydrogen halide passes through the mixture without reacting, and cooling the reaction mass to obtain a high yield of β-halogen butyraldehyde and then halogenating the resultant product with a dry gaseous halogen from the group consisting of chlorine and bromine.

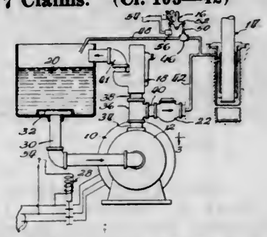
2,280,291

POWER TRANSMITTING SYSTEM

Lawrence F. Jaseph, Memphis, Tenn., assignor to Rotary Lift Company, Memphis, Tenn., a corporation of Delaware

Application April 10, 1939, Serial No. 267,035

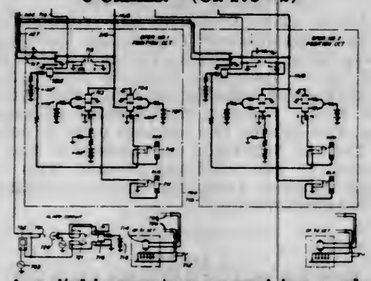
7 Claims. (Cl. 103—42)



1. A combined start-cushioning and relief valve for use with sources of fluid under pressure, including in combination, a valve chamber, a passage therefrom to said source and to the point of application of the pressure, a by-passage from said chamber capable of by-passing substantially the entire flow of fluid from said source to said chamber, a valve member movable a substantial distance in said chamber from a by-passage closing to opening position, spring means biasing said valve into its by-passage closing po-

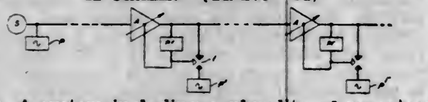
sition and permitting movement thereof to open said by-passage when said member is initially subjected to a minimum pressure, a piston-like member movable in said chamber to compress and move said spring means and valve member, means including a restricted passage leading from said first-mentioned passage to said chamber at a point on the side of the piston-like member opposite the spring for gradually applying pressures corresponding to those obtaining in said first-mentioned passage to said piston-like member, said last-mentioned means moving the piston-like member together with said valve member and spring in a direction to close said by-passage, whereby the by-passage is gradually closed and the pressure obtaining in said first passage is gradually increased from said minimum to an intermediate value, means for limiting movement of the piston-like member to an extent such that the spring may be compressed further by said valve member, whereby when the pressure in said first-mentioned passage exceeds a maximum value the valve member is moved against the spring to open said by-passage.

2,280,292
TELETYPEWRITER SWITCHING SYSTEM
Fullerton S. Kinkead, New York, and Joseph A. Krecek, New Rochelle, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 17, 1940, Serial No. 345,898
8 Claims. (Cl. 178—2)



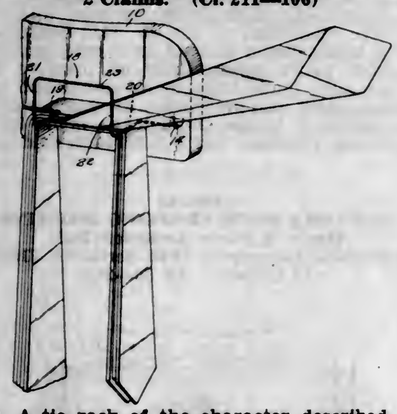
1. A switching system comprising a plurality of normally deenergized main circuits, a plurality of other normally deenergized circuits, a plurality of groups of operable switching devices for respectively terminating said main circuits, a plurality of other groups of operable switching devices for respectively terminating said other circuits, and a plurality of hub circuits arranged in engageable relation with said main and said other circuits and adapted when two or more devices of different groups are operated to effectively connect two or more of said main circuits.

2,280,293
REPEATER CONTROL
John G. Kreer, Jr., Bloomfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 25, 1941, Serial No. 380,444
11 Claims. (Cl. 178—44)



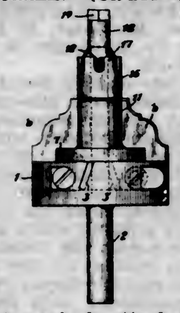
1. A system including a plurality of repeaters for the concurrent through transmission of signal waves and auxiliary waves, at least one of said repeaters comprising means for regulating a transmission characteristic thereof under the control of waves transmitted through said system, at least one other of said repeaters anterior to said one repeater comprising means adapted to generate auxiliary waves, and means to supply said generated auxiliary waves to said system for transmission to said one repeater in response to an abnormal change at said other repeater in the said controlling waves.

2,280,294
TIE RACK
Lowell A. Leonard, Chicago, Ill.
Application September 28, 1940, Serial No. 358,910
2 Claims. (Cl. 211—106)



1. A tie rack of the character described, including: a back portion adapted to be supported in a vertical plane; and a plurality of tie supporting portions carried by the back portion, each such tie supporting portion comprising a forwardly extending part and an upwardly extending part, the forwardly extending part having a length substantially equal to the width of the neck portion of a tie, and both such parts having a width in excess of one inch, whereby spaced points of frictional engagement with ties supported thereby are provided, such spacing being sufficient to enable an intermediate tie in a pile of ties to be readily removed without disturbing the support of the other ties.

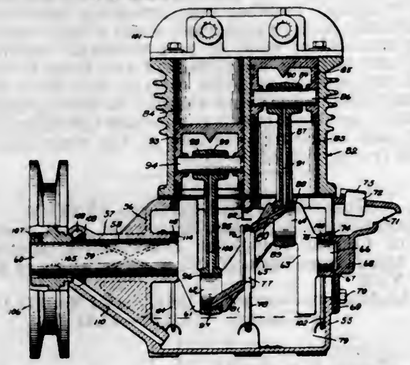
2,280,295
BIT
Paul Manteros, Nashua, N. H.
Application August 3, 1940, Serial No. 351,029
3 Claims. (Cl. 144—233)



1. A bit having a body attachable for rotation,

a stepped spindle connected thereto and rising therefrom, said spindle comprising a lower step and an upper step, said upper step being of lesser diameter than the lower step and having a threaded external surface, said body and spindle being provided with a blade receiving incision by which a contained blade will lie embedded in part within said body and in part within said spindle with extension onto the threaded portion of the upper step thereof, means for holding a blade thus embedded in place including a member borne by said body adapted and arranged to exert lateral pressure against that portion of the blade embedded within said body, and a member on the threaded step of said spindle adapted and arranged when tightened to have engagement with the top end portion of said blade.

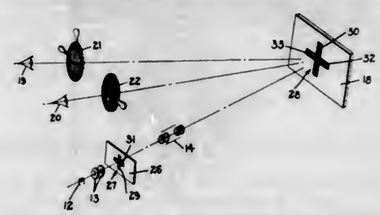
2,280,296
LUBRICATING SYSTEM FOR COMPRESSORS OR THE LIKE
Burr Ward Mantle, Pittsford, N. Y., assignor to The American Brake Shoe and Foundry Company, a corporation of Delaware
Application June 14, 1940, Serial No. 340,463
8 Claims. (Cl. 184—6)



1. In a device of the character described, a crank shaft having a crank, a body of oil below said crank shaft, an oil ring moved by said shaft for raising oil from said body of oil to a point above said crank shaft, and an inclined passage formed in said crank, an open end of which is adapted to scoop oil from the lateral surface of said oil ring in a comparatively narrow zone adjacent to said point as said crank shaft rotates, said ring and said passage both being in motion as the open end of the latter scoops oil from said ring, thereby causing the scooping action to be intermittent.

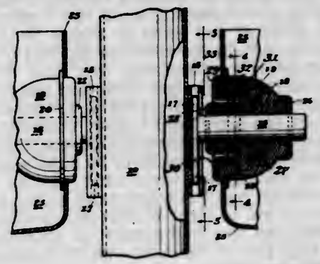
2,280,297
METHOD OF TESTING EYES
Julius F. Neumueller, Webster, Mass., and James Y. Taylor, Brownwood, Tex., assignors to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Original application August 19, 1936, Serial No. 96,826. Divided and this application January 5, 1940, Serial No. 312,570
1 Claim. (Cl. 88—20)

The method of performing a malingering test comprising placing a polarizing element in front of each respective eye of the individual under test with the axes of polarization of said elements being disposed in substantially normal relation with each other, exhibiting to the eyes, through their respective polarizing elements, a test member of a given form character having in part a portion produced by non-polarized light and having additional components, one produced by light polarized in a direction substantially parallel with one of the polarizing elements in front of one eye and another by light polarized in a direction substantially parallel to the axes of polarization of the element before the other eye causing each component to be visible and viewed monocularly by the respective eyes with the portion produced by non-polarized light being singularly binocularly visible by said eyes and causing the



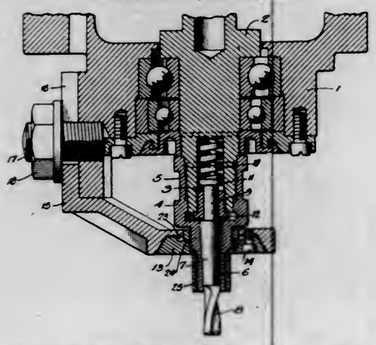
monocularly visible components to combine with each other to produce, to normal eyes, a form character simulating the form character actually exhibited to the eyes through fusion of the portions thereof produced by non-polarized light and to an individual having a deficient eye causing said component visible to the good eye to be of different distinguishable form character from that of the original test character whereby a true determination of the conditions of the eyes of the individual under test, by comparison of the report of said individual as to the nature of the visible test character with the true nature of the actual test character exhibited, can be made.

2,280,298
SEAT HINGE
Henry P. Nordmark, Grand Rapids, Mich., assignor to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey
Application October 8, 1937, Serial No. 167,868
3 Claims. (Cl. 155—85)



3. In a chair, a standard, a seat, and a hinge for supporting and urging the seat to upwardly tilted position on the standard, said hinge comprising a non-rotatable spindle member extending inwardly from the standard and a resilient block member surrounding the spindle, secured at one of its ends at least in non-turnable relation to the spindle and having in its other end a deep concentric groove, said block member being secured at its said other end radially outwardly of the groove in non-turnable relation to the seat.

2,280,299
CHUCK
Rudolph F. Onsrud, Chicago, Ill., assignor to Onsrud Machine Works, Inc., Chicago, Ill., a corporation of Illinois
Application March 10, 1941, Serial No. 382,605
2 Claims. (Cl. 279—9)



1. The combination of a chuck and spindle wherein the end of the spindle is provided with a spring receiving pocket, a spring in said pocket, said spindle and chuck having threaded engagement, the chuck having an undivided outer end wherein is formed a tapered tool receiving socket in alignment with the spring pocket of the spindle, and the taper of said chuck socket being minimum at the outer end of the chuck and maximum adjacent the spindle receiving end of the chuck.

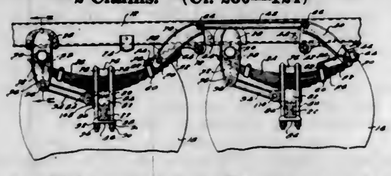
2,280,300
LIGHT SENSITIVE PHOTOGRAPHIC COATING AND METHOD OF MANUFACTURING THE SAME
Rowland S. Potter, Brightford Heights, and Ray Seward Hagaman, Irondequoit, N. Y., assignors to Defender Photo Supply Co., Inc., Rochester, N. Y., a corporation of New York
No Drawing. Application January 14, 1941, Serial No. 374,368
18 Claims. (Cl. 95—7)

8. The method of manufacturing a light sensitive photographic coating having a widely variable gamma depending upon the spectral region of the color of the light to which it is exposed, which consists in distributing throughout a molten emulsion a sensitizing dye, said dye acting on the silver halide particles and possessing the characteristic of conferring a gradation which varies in the sensitized region with the amount of dye used, and restricting the sensitizing action of the dye on the emulsion to substantially less than its maximum sensitizing action, whereby the emulsion has a substantially softer gradation when exposed to light within the spectral region to which the dye has conferred sensitivity than when exposed to light to which the emulsion is naturally sensitive.

2,280,301
SULPHUR COMPOSITION
Philip A. Ray, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 1, 1941, Serial No. 400,699
10 Claims. (Cl. 106—70)

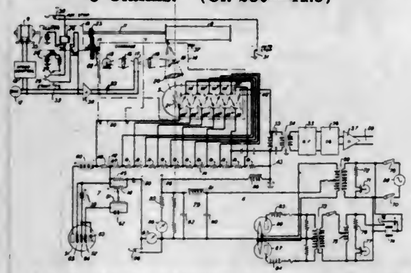
1. A composition comprising sulphur and a terpene polysulphide as a plasticizer for the sulphur.

2,280,302
VEHICLE UNDERCARRIAGE
Frederick M. Reid, Detroit, Mich., assignor to Fruehauf Trailer Company, Detroit, Mich., a corporation of Michigan
Application March 16, 1940, Serial No. 324,365
2 Claims. (Cl. 280—124)



1. A vehicle comprising a frame, a pair of axles arranged in tandem beneath said frame, a spring for each axle at each side of said frame, means including a hanger for slidably connecting one end of each of said springs to the frame, a radius rod below each of said springs pivotally connected at one end with one of said hangers, means pivotally connecting the opposite end of said radius rods with the adjacent axle, means connecting the other end of each of said springs to the frame, said last named means including a bellcrank member fulcrumed on said frame adjacent each of said other ends, a roller secured to one end of each of said bellcrank members, means forming an elongated eye fixed to each of said springs adjacent each of said other ends and slidably receiving therein its corresponding roller, and rigid means connecting the other ends of said bellcrank members at the same side of the frame with each other.

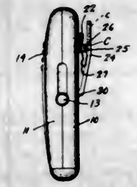
2,280,303
ELECTRON MULTIPLIER SYSTEM
Frederick W. Reynolds, Ridgewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 4, 1941, Serial No. 373,107
9 Claims. (Cl. 250—41.5)



1. An electron multiplier having a plurality of electron emitting cathodes, an output electrode, a source of unidirectional voltage, means connecting said source to said cathodes and said output electrode to make each cathode more negative than the adjacent one on the side toward said output electrode, and means to supply a supplemental voltage across two of said cathodes to compensate for a change in the voltage of said source.

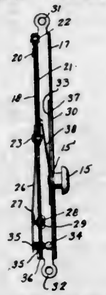
2,280,304
CLIP STRUCTURE
Walter E. Schauer, Forest Park, Ill., assignor to Otarion, Inc., Chicago, Ill., a corporation of Illinois
Application May 3, 1941, Serial No. 391,759
4 Claims. (Cl. 24—3)

2. A clip structure for an object to be supported comprising a passageway through the wall of the object, and a clip element comprising a supporting stud terminating at its inner end in a head insertable through said object passageway and having parts adapted after insertion thereof through said passageway for projecting behind the passageway surrounding walls to function as detents, a clip lever fulcrumed on the outer end of said stud, an S-shaped spring having passageways through its inner and intermediate portions receiving said stud between its head and the fulcrum connection of said lever



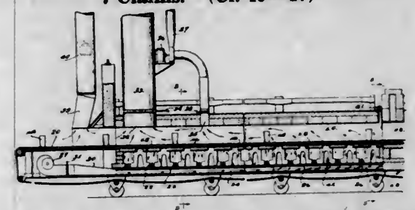
with said stud and having its outer end projecting across the outer end of said stud and against the inner side of the outer end of said lever, said spring after insertion of said head through said passageway and turning thereof exerting outward pressure to hold said head in detent engagement with the back of said wall to thereby hold the clip element in adjusted position and the outer end of said spring then functioning to swing said lever for clamping engagement against a support inserted between the object and the lever end.

2,280,305
VOLUME CONTROL FOR HEARING AIDS
Walter E. Schauer, Forest Park, Ill., assignor to Otarion, Inc., Chicago, Ill., a corporation of Illinois
Application May 3, 1941, Serial No. 391,761
2 Claims. (Cl. 201—62)



1. A control assembly for the purpose described, comprising an elongated slender frame of U cross section, a terminal strip of insulating material forming a closure for the open side of said frame, a resistance strip within said frame on the inner side of said terminal strip to extend along the upper portion thereof, upper and lower securing means for securing said resistance strip to said terminal strip and serving as circuit terminals for said resistance strip, a switch spring at the back of said terminal strip secured at its upper end to said terminal strip by the lower securing means for said resistance strip, said terminal strip at its lower end having an opening therethrough, a stud on the lower end of said switch spring extending through said opening, a terminal contact on said terminal strip above said opening normally contacted by said switch spring, a slider element in the form of a spring bar engageable against the inner side of the front wall of said frame, the front wall of said frame having a longitudinally extending slot therethrough, a button movable along the outer side of said front wall and having a part extending through said slot and secured to said slider member whereby said slider member may be shifted by said button upwardly and downwardly in said frame, a contact arm extending from said slider member for engagement at its end with said resistance strip as said slider member is moved up and down, an abutment on the lower end of said slider member engageable with the stud on said switch spring to effect disconnection of said switch spring from said terminal contact when said slider member is moved to its lower position and said contact arm is at the lower end of said resistance strip, whereby said switch spring will then be held in circuit opening position.

2,280,306
PREHEATING CHAMBER FOR DECORATING LEHRS
Harold R. Black, Toledo, Ohio, assignor to Libbey Glass Company, a corporation of Ohio
Application May 7, 1940, Serial No. 333,809
7 Claims. (Cl. 49—47)



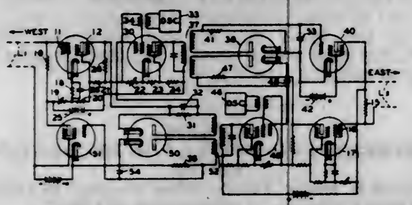
1. Apparatus for decorating articles comprising a horizontally disposed heating chamber, a conveyor extending lengthwise therethrough for conveying articles through said chamber, a combustion chamber beneath said heating chamber and extending lengthwise therealong, burners within the combustion chamber and distributed at intervals therealong, means for supplying fuel to the burners, the floor of said heating chamber being of openwork construction providing communication between said chambers and permitting the hot gases to pass upwardly directly into the heating chamber, and means for supplying air under pressure to a restricted zone of the combustion chamber remote from the front end and in which zone some of said burners are located and causing said air to be preheated by the burners within said restricted zone, a portion of said openwork floor extending over said zone and positioned to permit the heated air to pass from said zone directly upward into the said heating chamber.

2,280,307
PROCESS OF MANUFACTURING PAPER
Robert A. Diehm, Appleton, Wis., assignor to Röhm & Haas Company, Philadelphia, Pa.
No Drawing. Application November 25, 1938, Serial No. 242,284
2 Claims. (Cl. 195—8)

2. The process of improving the qualities of paper pulp selected from a member of the class consisting of straw, kraft, mechanical, and sulfite pulps which comprises suspending said pulp in water, adding to said mixture a cytase, allowing the hydrogen ion concentration of said aqueous mixture to a pH between 4.5 and 5.5, warming the mixture to a temperature between about 40°

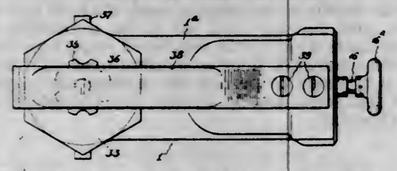
C. and about 45° C., allowing the mixture to stand until a desired amount of hemi-cellulose has been solubilized in the pulp, and washing the treated pulp.

2,280,308
ELECTRONIC REPEATER
Lawrence W. Franklin, Hasbrouck Heights, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application December 3, 1938, Serial No. 243,707
7 Claims. (Cl. 178—71)



1. In a telegraph system, two lines, means for impressing code telegraph signals on one of said lines and a repeater for relaying said signals to the other line, said repeater comprising an oscillation generator, a thermionic relay having input and output circuits, a rectifier having its output circuit connected to said other line, a connection of variable impedance between said oscillation generator and said rectifier, said variable impedance connection comprising a mixer tube having two control electrodes or grids, one connected to said oscillation generator and the other connected in the output circuit of said thermionic relay, means to impress said code signals on the input circuit of said thermionic relay, and means including said thermionic relay for varying the impedance of said connection to impress signals through said rectifier on said other line corresponding to those impressed on said thermionic relay.

2,280,309
VALVE DEVICE
Frank O. Graham, Detroit, Mich., assignor to Temprite Products Corporation, Detroit, Mich., a corporation of Michigan
Application November 2, 1940, Serial No. 364,064
10 Claims. (Cl. 277—42)



1. In a valve device, the combination of a casing having a passage therethrough for the flow of fluid, a valve seat in the said passage, a valve associated with the seat and movable toward and from said seat to control the flow of fluid through the passage, a spring for pressing the valve against the seat, manual means for opening the valve against the pressure of said spring, a latch device operating automatically to hold the valve in open position, means actuated by fluid pressure in the discharge part of the casing passage for disengaging the latch, and means for manually moving the fluid-pressure-actuated means to effect disengagement of the latch device.

2,280,310
TREATMENT OF LEATHER
Robert M. Koppenhoefer, Jackson Heights, and Theodore G. Roehner, Malverne, N. Y., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application October 25, 1940, Serial No. 362,800
3 Claims. (Cl. 149—6)

1. A method of lubricating skins and leathers comprising impregnating them with a product containing a lubricant element selected from the group consisting of vinifera palm oil and sulphated vinifera palm oil.

2,280,311
STABILIZATION OF ALDEHYDES
Richard O. Roblin, Jr., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application November 4, 1937, Serial No. 172,697
7 Claims. (Cl. 260—599)

1. A stabilized aromatic aldehyde containing not more than a fraction of a percent of a thiourea having at least one free hydrogen attached to one of the thiourea nitrogens.

2,280,312
RAZOR BLADE SHARPENER
Emil H. Schipper, Pasadena, Calif.
Application July 15, 1940, Serial No. 345,569
1 Claim. (Cl. 51—212)

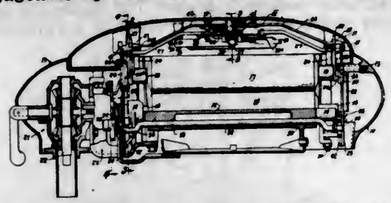


In a razor sharpener of the character described, the combination of a thin cylindric plate of highly hardened steel, downwardly-turned integral flanges formed along the two curved edges of said cylindric plate, outwardly-turned integral flanges formed along the two side edges of said cylindric plate, said four flanges preserving the form of the cylindric plate after forming, and a base block of rubber or the equivalent that is sufficiently flexible to conform to the shape of the thin cylindric plate without exerting substantial warping strains thereon having a concave face engaging and intimately bonded to the entire under, convex surface of said plate, said rubber block having, at the ends of said concave face, end surfaces formed parallel to said downwardly-turned flanges and abutting and intimately bonded to the inside faces of said flanges, and having, along the longitudinal edges of said concave face, longitudinal upwardly facing edges formed parallel to said outwardly-turned flanges and abutting and intimately bonded to the under faces of said flanges, all so arranged that said block supports the thin cylindric plate and its downwardly and outwardly turned flanges, without exerting substantial warping strains on the plate.

2,280,313
WRINGER
Simon E. Schroeder, Chicago, Ill., assignor to Barlow & Seelig Mfg. Co., Ripon, Wis., a corporation of Delaware
Application August 4, 1937, Serial No. 157,285
12 Claims. (Cl. 68—263)

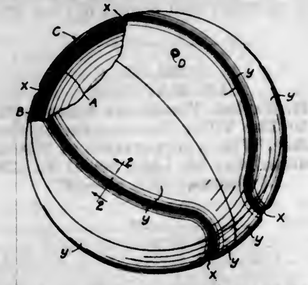
2. In a wringer, the combination of a frame

including a base and a head adapted to be detachably associated with said base, wringer rolls journaled in said frame and adapted to be placed in contact under operative pressure when said head and base are so assembled, releasable latching means carried by said head at each end thereof, reciprocable means mounted on said base engageable by said latching means to hold said



base and head in operative assembly, resilient means connected with said reciprocable means to exert a force through said latching means for holding said head associated with said base and the wringer rolls under operative pressure, and cam means for selectively shifting the position of said latching means relative to said head along the line of reciprocation of said reciprocable means.

2,280,314
METHOD OF MAKING INFLATABLE BALLS
Mason Scudder, Clayton, Mo., assignor to Rawlings Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Original application February 12, 1938, Serial No. 190,177. Divided and this application April 15, 1939, Serial No. 268,012
1 Claim. (Cl. 154—16)



A method of making an inflatable ball, characterized by forming cover sections having tapered marginal edge portions, arranging said cover sections on an inflated spherical member with their edges in abutting relationship, and securing said sections by an adhesive to said member, and pressing the tapered edge portions of said cover sections inwardly, thereby producing a ball whose cover is provided with a valley or depression of irregular shape or outline.

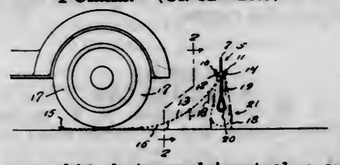
2,280,315
STAGE EFFECT AND DISPLAY DEVICE
Mildred Knapp Shipman, San Francisco, Calif.
Application October 11, 1939, Serial No. 298,917
In Australia February 9, 1939
4 Claims. (Cl. 272—13)

1. A stage or display device comprising an enclosure, a horizontal platform within said enclosure, a pair of walls on said platform having reflecting surfaces facing one another and meeting along a vertical line at an angle which is a divisor of 360°, at least one of said walls being composed of uniplanar mirrors separated by narrow open spaces, and auxiliary members introduced into the



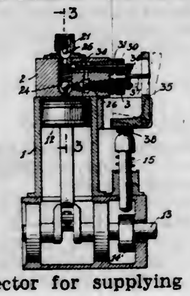
compartment formed by said walls through the open spaces between said mirrors.

2,280,316
SKID CHAIN APPLYING TOOL
Andrew Spock, Weatherly, Pa.
Application May 1, 1941, Serial No. 391,386
1 Claim. (Cl. 81—15.8)



In a non-skid chain applying tool, a substantially U-shaped member to straddle a tire transversely thereof while mounted on a wheel of a motor vehicle for free circumferential movement of the tire and includes a substantially arcuately curved connecting portion and parallel straight side portions spaced from each other to move freely relative to the side walls of the tire, pairs of hooks formed on the straight side portions of the substantially U-shaped member, one pair of said hooks located on one side of the substantially U-shaped member to engage links at one end of a non-skid chain resting on the ground with the tire resting thereon a limited distance from the other end of the non-skid chain and the other pair of hooks being engaged with links of the non-skid chain located between the ends of the non-skid chain whereby a portion of the non-skid chain becomes draped on the substantially U-shaped member when manually supported, and an elongated straight handle having one end integral with the end of one of the side portions positioning said handle in alignment with the last-named side portion whereby a person gripping said handle may move the substantially U-shaped member circumferentially of the tire carrying the non-skid chain therewith about the tire with the major portion of the non-skid chain supported from the ground.

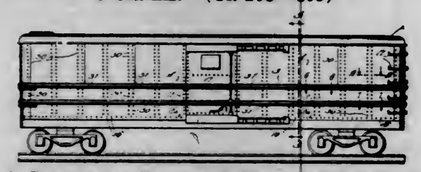
2,280,317
FUEL SUPPLY MECHANISM
Carl F. Stehle, Caldwell, and Herman Glodde, Paterson, N. J.
Application August 7, 1939, Serial No. 288,828
10 Claims. (Cl. 123—33)



1. An injector for supplying fuel to an in-

ternal combustion engine, comprising a cylinder, an ail inlet port therefor, a piston reciprocable therein, a head block on said cylinder having therein a fuel antechamber adapted to communicate with said cylinder, and a fuel supply aperture and a relief aperture branching from such antechamber, a valve seat in each such aperture adjacent to the antechamber, a valve received in each aperture adapted to close the valve seat of its respective aperture, and means operating to reciprocate said piston and in synchronism therewith to open simultaneously and to close simultaneously said valves, for scavenging of air from said antechamber through the relief aperture and for delivering a fuel charge through the supply aperture into the antechamber prior to admission of air under pressure from said cylinder to the antechamber to propel the fuel charge therefrom to the engine.

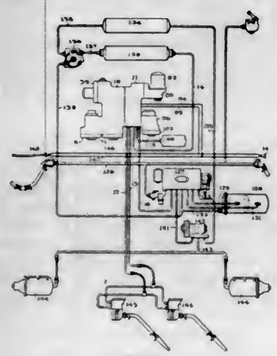
2,280,318
RAILROAD CAR
George A. Steuber, Penfield, N. Y., assignor to Despatch Shops, Inc., a corporation of New York
Original application April 10, 1939, Serial No. 267,133. Divided and this application November 18, 1940, Serial No. 366,183
8 Claims. (Cl. 105—409)



1. In a car wall construction, posts having lateral flanges provided with offset portions, wall sheets bearing at their inner sides on said post flanges and having outwardly projecting lapping flanges at their adjacent edges, said flanges being provided with offset portions in line with the offset portions of the post flanges, angle metal joint plates presenting vertical portions seated in the offset portions of the post flanges and horizontal portions extending between and seated in the offset portions of the wall sheet flanges, fastening connections between the vertical portions of the joint plates and the post flanges independent of and lying inside the plane of the wall sheets, the flanges of the posts and the sheets being provided with openings registering with each other and the flanges of the sheets and horizontal portions of the joint plates being provided with openings registering with each other, a bolt passing through the registering openings in the post flanges and wall sheets a threaded nut rigidly secured to the post flanges engaged by said bolt and detachably securing the wall sheets to the posts, and fastening members passing through the flanges of the wall sheets and horizontal portions of the joint plates and exposed so as to admit of their removal from the outside of the wall.

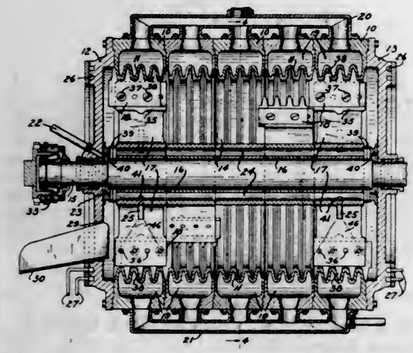
2,280,319
SANDING RELAY
Henry Norton Sudduth, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey
Application July 10, 1941, Serial No. 401,829
7 Claims. (Cl. 291—3)

7. In a sander relay the combination of a sander valve having a sanding position, and a running position in which sanding is suspended; a movable abutment connected to shift said valve between said positions; means forming a working space at one side of said abutment; force-developing means associated with said abutment for biasing said abutment and valve toward running position when said working space is charged with fluid under pressure above a definite value and toward sanding position when said pressure is substantially reduced; means for charging said working space with pressure fluid at a restricted



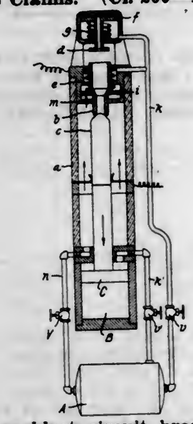
rate; a timing chamber; controlling means normally serving to isolate said working space from said timing chamber and connect the timing chamber to exhaust but operable to close said exhaust and connect the timing chamber and working space together; and means controlled by said relay valve and serving as the latter moves from sanding to running position to charge the timing chamber and isolate it from the working space.

2,280,320
ICE MACHINE
William H. Taylor, Waukesha County, Wis., assignor to The Vilter Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application May 20, 1940, Serial No. 336,113
15 Claims. (Cl. 62—107)



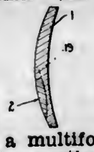
1. In an ice machine, a casing having internal annular grooves the surfaces of which are maintained at freezing temperature, and an ice film removing member having diametrically opposite cutters one of which coacts only with corresponding surfaces on one side of said grooves while the other coacts only with the opposite corresponding side surfaces of the same grooves.

2,280,321
GAS BLAST CIRCUIT BREAKER
Hans Thommen, Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland
Application February 8, 1940, Serial No. 317,949
In Germany November 17, 1938
8 Claims. (Cl. 200—148)



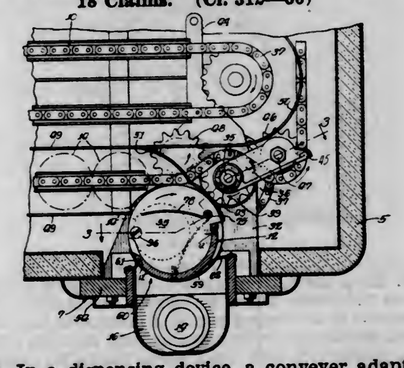
1. In a gas blast circuit breaker, a pressure chamber, a nozzle contact extending through a wall of said chamber, a piston slidable in a cylinder and carrying said nozzle contact, ports at the opposite ends of said cylinder and opening into said pressure chamber and and a conduit respectively, spring means urging said nozzle contact into circuit closing position, a cooperating contact within said chamber for closing the bore of said nozzle contact when said contacts are engaged, and valve means at the exterior of said chamber and responsive to the flow of pressure gas through said nozzle contact to terminate the escape of pressure gas through said nozzle contact upon a separation of said contacts.

2,280,322
OPHTHALMIC LENS
Edgar D. Tillyer, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application April 9, 1940, Serial No. 328,731
2 Claims. (Cl. 88—54)



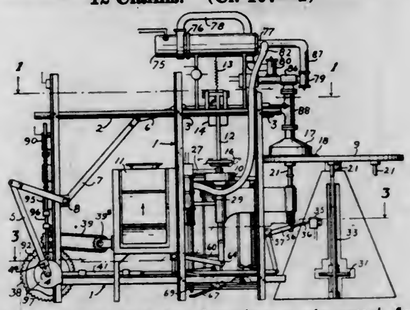
1. A blank for a multifocal lens, said blank comprising a major portion of glass having a recess with a finished optical surface therein, and a composite button of a plurality of pieces of glass fused transversely in edge to edge relation with each other and fused in said recess, said major portion being of optical crown glass containing within a variation of approximately plus or minus 1 percent of approximately 71 percent silicon oxide, 12.5 percent calcium oxide, and sodium oxide and potassium oxide of a combined amount of approximately 15 percent with said sodium oxide of said combined amount being approximately 8.25 percent and the potassium oxide being approximately 6.5 percent, said glass containing minor ingredients such as sodium sulphate, sodium chloride and antimony oxide in percentages of less than 1.00 percent, said major portion having a refractive index of about 1.52 and a reciprocal relative dispersion of about 55 to 60, one of said pieces of glass of said composite button being of substantially the same glass as the major portion and the other of said pieces being of a relatively high index of refraction, all of said glasses having substantially the same expansion factor so that they will stably unite on fusion, said completed blank having a finished optical surface on the segment side thereof.

2,280,323
VENDING MACHINE
Frederick F. Tone, Chicago, Ill., assignor to Kalva Venders, Inc., Chicago, Ill., a corporation of Illinois
Application September 25, 1939, Serial No. 296,459
18 Claims. (Cl. 312—36)



1. In a dispensing device, a conveyer adapted to receive and carry articles, a delivery platform initially in loading position, power means for actuating the conveyer, means for deflecting an article from the conveyer to the delivery platform, auxiliary power means for moving said platform to delivery position and returning it to initial position, a retaining mechanism for holding said platform in initial position including a member thereof in the path of said deflected article adapted to be actuated by said article to release said platform for movement to a delivery position.

2,280,324
PIE MAKING MACHINE
Oliver H. Tracy, Portland, Oreg.
Application October 14, 1940, Serial No. 361,017
12 Claims. (Cl. 107—1)



1. An apparatus for forming a pie crust from a blank of dough and placing it in a pan, comprising means defining a station, a forming head

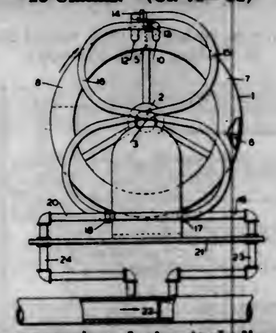
adapted to move periodically into close proximity to said station, means for producing a subatmospheric pressure in the forming head for moving a blank from said station into said head and forming it to desired shape, and means for producing a super-atmospheric pressure in the forming head for removing it from said forming head into a pie pan having said desired shape.

2,280,325

FLOW AND PRESSURE MEASURING DEVICE

Otto B. Vetter, Chicago, Ill., assignor to Ring Balance Instrument Company, Chicago, Ill., a corporation of Illinois

Application June 8, 1940, Serial No. 339,455
15 Claims. (Cl. 73—31)



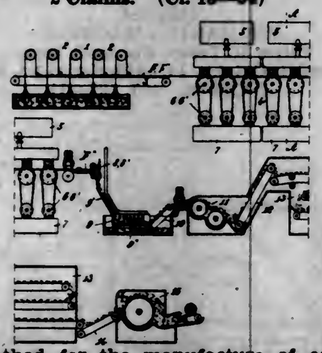
1. In a measuring device including a hollow torus rotatable about its center, a flexible tube disposed in S-shaped configuration with one end fixed below the center of said torus and the other end connected with said torus above its center.

2,280,326

METHOD FOR MANUFACTURING STAPLE FIBER WITH HIGH STRETCHING CAPACITY

Oscar von Kohorn zu Kornegg, New York, N. Y., assignor, by mesne assignments, to Fibres Associates, Inc., a corporation of New York

Application October 21, 1938, Serial No. 236,201, which is a division of application Serial No. 24,756, June 3, 1935. Divided and this application April 12, 1940, Serial No. 329,218
2 Claims. (Cl. 18—54)



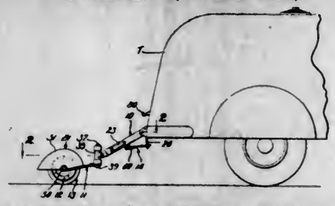
1. Method for the manufacture of artificial staple fibers in which the fibers are afforded the opportunity to shrink and twist freely, comprising spinning artificial threads, treating said threads while continuously running at spinning speed in pulley block tackle fashion with suitable liquids, cutting the continuous threads into staples, destroying the parallel position of the fibers by application of solutions, removing the excess moisture, opening the fibers mechanically to prepare them for drying, and drying the loosened fibers to the desired degree to give the said fibers a high stretching capacity.

2,280,327

GROUNDING DEVICE FOR VEHICLES

David Curtis Ware, Laguna Beach, Calif.

Application January 29, 1940, Serial No. 316,183
8 Claims. (Cl. 175—264)



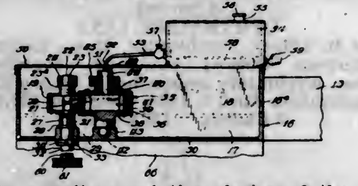
1. A grounding device for a vehicle comprising an arm member, means for securing the member to the vehicle to extend downwardly and rearwardly therefrom and to pivot about a horizontal axis, a bearing on the rear end of the member, a ground engaging conducting wheel, a fork rotatably mounting the wheel and carried by the bearing to swing about a generally vertical axis, and means for adjusting the bearing about a substantially horizontal axis so that the axis of swinging of the fork may be made substantially vertical with the member at different angles.

2,280,328

PRINTING DEVICE

Tracy C. Weltmer, Kansas City, Mo., and Charles J. Regan, Omaha, Nebr., assignors to Interstate Bakeries Corporation, Kansas City, Mo., a corporation of Delaware

Application May 6, 1940, Serial No. 333,520
2 Claims. (Cl. 101—35)



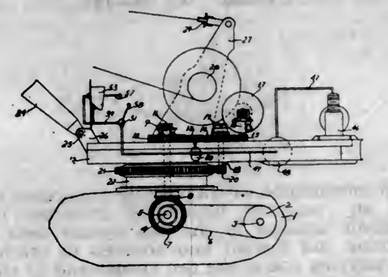
2. In a unitary printing device of the class described embodying a casing having a vertical wall and two horizontal walls, one of said horizontal walls being removable and forming a cover for the casing, a printing roller rotatably mounted on a vertical axis within the casing, and an inking roller also mounted on a vertical axis within the casing in peripheral engagement with said printing roller, that improvement therein comprising bearing members carried on the vertical wall and lower horizontal wall respectively within the casing for mounting said rollers respectively, the inking roller including a pair of vertically spaced apart parallel plates, the upper of said plates having a hub extending above its bearings in which it is journalled and said hub being upwardly openly orificed coincident with its axis to provide an uncovered ink passage therethrough, detachable spacing means between the plates spaced at intervals circumferentially of and between said plates, a liquid porous annulus secured about said spacing means, an ink reservoir carried on the said cover and removable therewith, an aperture in said cover coincident with said passage, and a drip pipe communicating with said reservoir and entering said aperture in alignment with said passage for conveying ink by gravity through said open passage in said hub.

2,280,329

EXCAVATOR

Fred L. White, Marion, Ohio, assignor to The Osgood Company, Marion, Ohio, a corporation of Ohio

Application August 25, 1941, Serial No. 408,181
9 Claims. (Cl. 214—135)



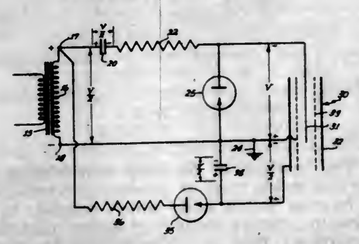
1. In a power crane; a traveller and a transmission therefor; a deck mounted on said traveller and a transmission to rotate same; a reversing mechanism common to each of said transmissions; a pair of clutches in said reversing mechanism; pressure fluid motors to actuate each of said clutches; a source of pressure fluid supply; conduits connecting said motors and said source; a pressure reducing valve in said conduits; a valve in said conduits to selectively apply a high or a low unit pressure fluid to said motors; and a metering distributing valve to gradually apply said selected pressure fluid to said motors to thereby provide a smooth unvarying power flow to said deck transmission.

2,280,330

POWER CIRCUIT FOR ELECTRICAL PRECIPITATORS

Harry J. White, Los Angeles, Calif., assignor to Research Corporation, New York, N. Y., a corporation of New York

Application August 22, 1940, Serial No. 353,781
6 Claims. (Cl. 183—7)



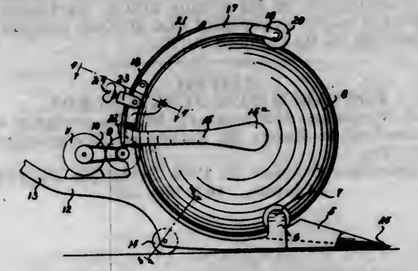
1. In combination with electrical precipitation apparatus for cleaning gases and comprising a pair of complementary electrodes, an electric circuit for energizing said electrodes comprising a source of alternating current at a relatively high potential, said source having two terminals; a condenser; one of the electrodes being connected to one of the terminals in series with the condenser; the other electrode being connected to the other of the terminals; and a half-wave rectifier connected in parallel across the pair of electrodes, with the condenser between the current source and the rectifier.

2,280,331

APPARATUS FOR PROPELLING BOWLING BALLS

Orville Felix Whittle, Miami, Fla., assignor to Rotobowling Corporation, a corporation of Florida

Application February 15, 1940, Serial No. 319,133
12 Claims. (Cl. 272—129)



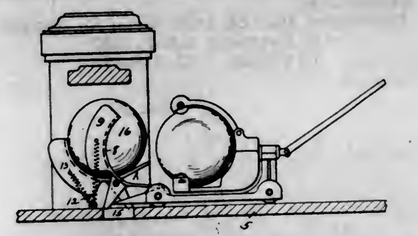
4. The combination with a carriage capable of free movement in all directions in a horizontal plane, of means carried by said carriage upon which a bowling ball may be supported for rotation, friction rollers engaging the surface of the ball, and power means for driving said friction rollers said friction rollers being mounted upon the carriage and being disposed in such planes as to rotate the ball in a substantially vertical plane and in the direction of proposed travel.

2,280,332

AUTOMATIC LOADER FOR POWER BOWLING MACHINES

Orville F. Whittle, Miami, Fla., assignor to Rotobowling Corporation, a corporation of Florida

Application February 17, 1941, Serial No. 379,315
9 Claims. (Cl. 273—37)

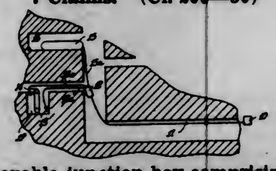


1. A loading device for loading bowling balls into power bowling machines, comprising a laterally tiltable section adapted to receive a bowling ball in the rolling movement of the ball in its return to the player's end of a bowling alley, and members engaged with said tiltable section and adapted to be engaged by a power bowling machine, in such manner that the movement of the bowling machine toward the tiltable section tilts said section to discharge the ball into the bowling machine.

2,280,333
PRODUCTION OF MARBLED CEMENTITIOUS FLOORS
Alfred L. Williams, Seattle, Wash., assignor to Raccolith Flooring Co., Seattle, Wash., a corporation of Washington
No Drawing. Application September 26, 1939, Serial No. 296,613
6 Claims. (Cl. 94—22)

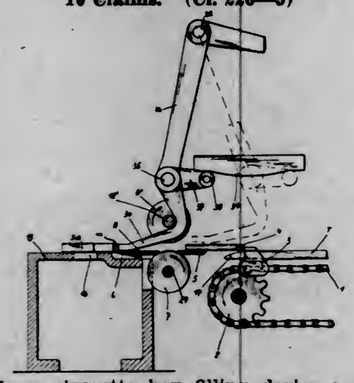
2. In the production of cementitious surfaces, those steps in the process of producing a marbled effect, which comprise streaking a small quantity of colored veining material throughout a relatively large quantity of cementitious base material of pourable, substantially self-leveling consistency, pouring the base material in such state upon its ultimate support, and after it has set to a fairly hard condition but before substantial completion of its setting action, performing the final major smoothing and surface removing operation on its exposed surface.

2,280,334
PORTABLE MINE JUNCTION BOX
Earl Workman, Montgomery, W. Va., assignor of one-half to Henry M. Stephens, Montgomery, W. Va.
Application October 28, 1940, Serial No. 363,145
7 Claims. (Cl. 200—50)



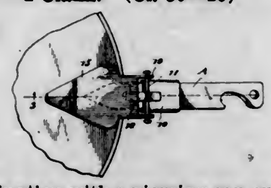
1. A movable junction box comprising, in combination, a box member provided with a lid, runners on said box member whereby the same may be slid on a supporting surface, switch means in said box member, lever means for operating said switch means and disposed exteriorly of the box member, means supportably engaged with said runners providing a guard rail for said lever means, said box member being adapted for connection with a flexible cable including electrical connections with said switch means.

2,280,335
CIGARETTE BOX PACKING DEVICE
Edmund Zimniak, Dresden, Germany, assignor, by mesne assignments, to Muller N. V., Rotterdam, Netherlands
Application June 28, 1938, Serial No. 216,207
In Germany July 5, 1937
10 Claims. (Cl. 226—5)



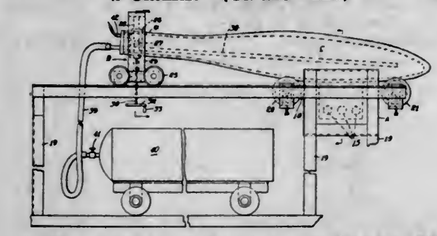
1. In a cigarette box filling device a driven guiding roller, a pair of axially spaced driven rollers mounted in spaced relation to the first said roller to provide a space between the first roller and said pair of rollers for the reception of cigarettes, and a swingably mounted pusher adapted to be swung between said pair of spaced rollers whereby to engage cigarettes in the space between the first roller and the pair of rollers to move said cigarettes.

2,280,336
PROTECTOR FOR BEER CAN OPENERS
Herman J. Maihack, Jersey City, N. J., assignor of fifty per cent to George H. Hutaff, Jr., Wilmington, N. C.
Application June 16, 1939, Serial No. 279,554
1 Claim. (Cl. 30—16)



In combination with a piercing can opener having an elongated handle, a protector hood hingedly secured to the can opener near the piercing end thereof and adapted to overhang the piercing end of the can opener and to shield the opening cut in a can by the opener, said hood having a pair of spaced flanges, a journal pin carried by the can opener and slidably engaging the flanges for providing a hinge connection between the hood and the opener, a sleeve slidably mounted upon said elongated handle, said sleeve carrying said journal pin, and a spring tongue carried by the sleeve and adapted to engage the opener for holding the sleeve against longitudinal movement upon the opener in one direction.

2,280,337
METHOD OF MAKING HOLLOW METAL AIRCRAFT PROPELLER BLADES
James H. McKee, Pittsburgh, Pa., assignor, by mesne assignments, to Curtiss-Wright Corporation, New York, N. Y., a corporation of Delaware
Application September 15, 1937, Serial No. 163,926
2 Claims. (Cl. 113—112)

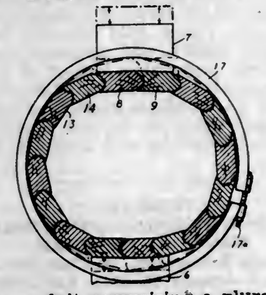


1. The method of forming non-ferrous fillets along the inside runs of previously formed seams of a ferrous hollow body which consists in placing brazing spelter along said seams, maintaining a continuous flow of reducing gas through the hollow of body under greater-than-atmospheric pressure, providing a restricted exit opening for outflow of said gas, and in locally heating, from outside the body, portions of the body seam to a temperature sufficient to fuze the spelter to form an internal seam fillet.

2,280,338
MODIFIED LUBRICATING OIL
David R. Merrill, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application December 23, 1938, Serial No. 247,391
11 Claims. (Cl. 252—39)

1. A liquid mineral lubricating oil containing in the order of about three-fourths of 1% to 2.5% of an oil-soluble carboxylic acid soap in amount to overcome the formation of gummy and resinous materials tending to ring sticking in heavy service internal combustion engines, the oil also containing a small proportion of a chlorinated aromatic compound containing chlorine in the aromatic ring and boiling above about 600° F., in quantity sufficient to overcome the deposition of hard carbon behind piston rings, the oil being free from appreciable increase in viscosity over the original lubricating oil, the mineral oil possessing a natural combined-sulfur content of non-corrosive sulfur in excess of about 0.5%.

2,280,339
WOOD STAVE CONDUIT
Cyril L. Meyers, Portland, Oreg., assignor to Forest Products Treating Division of Nebraska Bridge Supply & Lumber Company, a corporation of Nebraska
Application October 9, 1940, Serial No. 360,449
4 Claims. (Cl. 138—79)



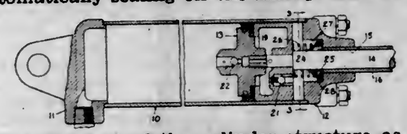
1. In a conduit comprising a plurality of longitudinally disposed staves arranged in a circular course with their edges arranged in abutment with the edges of adjacent staves, said course being encircled by exteriorly arranged bands, each of said staves having a pair of circularly formed tongues formed upon one edge, and complementary grooves formed upon the other edge, said tongues and grooves on each of said edges, respectively, being concentric but having radii of different lengths.

2,280,340
VERMICIDAL COMPOSITION
Luther H. Miller, San Antonio, and Thomas O. Booth, Fort Worth, Tex.
No Drawing. Application August 8, 1938, Serial No. 223,764
4 Claims. (Cl. 167—53)

4. A vermicidal composition comprising copper sulphate, sodium arsenite, and sodium chloride.

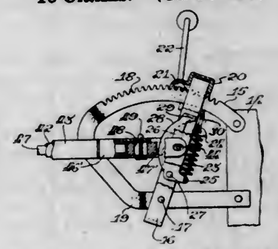
2,280,341
FLUID EXPANSIBLE DEVICE
Carl W. Mott, La Grange, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application March 26, 1940, Serial No. 326,057
5 Claims. (Cl. 121—38)

1. In a single-acting fluid expansible device, an enclosing cylinder structure having an opening through one end thereof, a piston structure movable within said cylinder structure from one end to the other end thereof, said movable piston structure including a piston rod adapted to work through the opening in the end of the cylinder structure, said piston structure adapted to collect leakage fluid which may have passed the same during its working movement to the piston rod end of the cylinder structure, and means for automatically sealing off the leakage fluid in the



piston rod end of the cylinder structure as the piston structure approaches that end of the cylinder structure to receive the fluid and thereby to prevent forcing of fluid out of the cylinder structure through the opening thereof, and said sealing-off means including a washer-like sealing element frictionally carried by the piston rod and biasing means for forcing the sealing element against the opening end of the cylinder structure upon the piston structure approaching that end thereof.

2,280,342
ADJUSTING MECHANISM
Carl W. Mott, La Grange, and Hiram P. Smith, Canton, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application March 26, 1940, Serial No. 326,061
18 Claims. (Cl. 97—50)

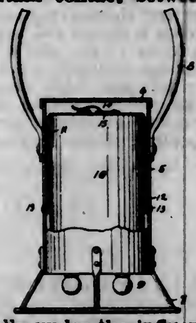


1. In combination, a tractor, an implement connected to the tractor for movement from one position to another position, a power operable device connected to the implement to move the same, manual means for adjusting the implement when in one of its positions, and means incident to the operation of the power device for rendering the adjusting means inoperative when the implement is moved to the other of its positions.

2,280,343
BATTERY RETAINING AND TENSIONING MEANS FOR HAND LANTERNS
William M. Moxley, Kansas City, Mo.
Application March 17, 1941, Serial No. 383,857
2 Claims. (Cl. 240—10.63)

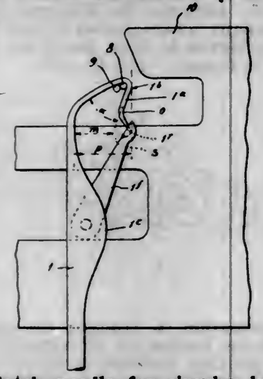
1. In an electric hand lantern of the type comprising a hollow lamp body, a cover upon the top of the lamp body, a lamp bulb carried at the bottom of the lamp body, and a bail like handle secured to the lamp body and extending over the top thereof and by which said body may be swung, a constrictable strand-like element having its ends secured to the inner sides of the body at a point materially below the top of the battery cell, said strand extending in a loop over the top of the battery cell and acting by its constricting

action to continually thrust the battery cell toward the bulb at the bottom of the body to thereby maintain contact between battery cell



and bulb wholly under the influence of a thrust exerted between the battery cell and the inner sides of the lamp body and wholly independently of the cover.

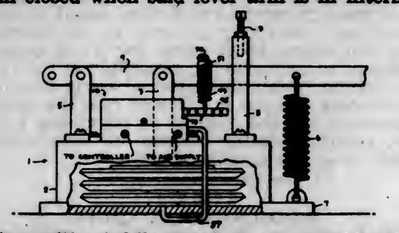
2,280,344
LATCH NEEDLE FOR CIRCULAR KNITTING MACHINES
Bruno Max Nebel, Chemnitz, Germany
Application January 21, 1941, Serial No. 375,182
In Germany November 18, 1938
1 Claim. (Cl. 66—121)



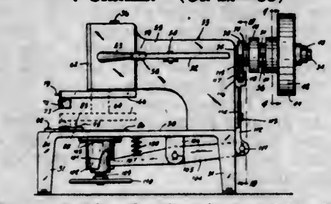
In a latch needle for circular knitting machines a stem, a head forming in its upper portion an internal angle which is smaller than a right angle and the vertex of which forms the highest point of the inner space of the head and the one located farthest from the needle breast, and a hooked portion extending on the side where the needle breast is positioned inwardly towards the needle breast at an acute angle to the axis of the needle in oblique direction, the free end of the said hooked portion being bent in outward direction away from the needle breast and the extremity thereof being positioned at approximately the same distance from the axis of the stem as the upper outer corner of the head.

2,280,345
PNEUMATIC CONTROL
Stanley W. Nickells, Chicago, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application March 13, 1939, Serial No. 261,672
14 Claims. (Cl. 121—41)

1. A positive positioning device for a pressure actuated motor comprising in combination, a pressure responsive device to which a controlling pressure is applied, a lever arm having a pivot, said lever arm being actuated about said pivot by said pressure responsive device, a pair of controlling valves for admitting and exhausting fluid to and from said pressure actuated motor, one of said valves being on one side of said pivot and the other of said valves being on the other side of said pivot, means for biasing said valves towards closed position, means actuated by said lever arm for actuating said valves, said last named means causing both of said valves to remain closed when said lever arm is in intermediate position while opening one of said valves upon movement of said lever arm in one direction and opening the other of said valves upon movement of said lever arm in the opposite direction, sealing means comprising a yieldable diaphragm interposed between said valves and said actuating means for forming a chamber common to both of said valves, said chamber being connected to said motor, and yieldable means connected between a movable portion of said motor and said lever arm for causing said lever arm to assume said intermediate position when the position of said movable portion corresponds to the pressure applied to said pressure responsive device.



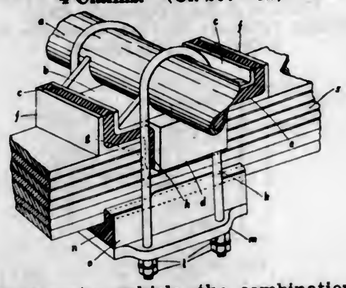
2,280,346
MACHINE FOR TURNING AND BINDING THE EDGES OF LEATHER
Louis J. Noecker, St. Clair, Mo.
Application February 25, 1941, Serial No. 380,506
7 Claims. (Cl. 12—55)



1. In a machine for turning and binding edge portions of pieces of leather, a forming block assembly adapted to have positioned thereon a piece of leather whose marginal portion has been supplied with an adhesive, a gauge included in the forming block assembly for properly positioning the leather, a resilient forming die adapted to engage and crease said marginal portion of the leather, an adjustably mounted guide block having a rounded beveled edge adapted to conduct said creased marginal portion into a space provided therefor between the base of the machine and a pressure plate included in said forming block assembly, the pressure plate being adjustably mounted on a platform supported on the upper end of a plunger whose vertical movements are regulated by a cam and roller arrangement, the cam being secured to a horizontal shaft rotatable at will, and the roller being supported

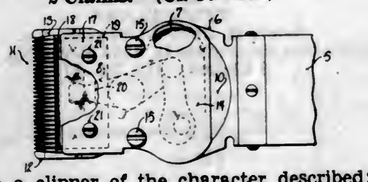
in the upper end of a bar whose lower end is connected to one end of a pivoted lever, the other end of which is adjustably connected with said plunger.

2,280,347
AXLE MOUNTING
Maurice Olley, Detroit, Mich., and George F. Gibson, Luton, England, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 3, 1940, Serial No. 343,806
In Great Britain July 3, 1939
4 Claims. (Cl. 267—52)



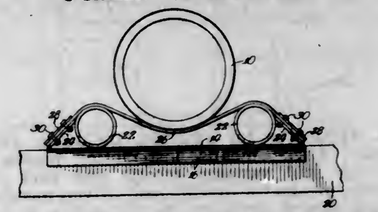
1. In a motor vehicle, the combination with an axle and a longitudinally disposed load supporting leaf spring, of resilient connecting means between the axle and spring, resiliently opposing relative transverse and longitudinal movement therebetween; said means including, a bracket extending longitudinally of the spring on which it is seated, having side portions including lugs embracing the sides of said spring, and end portions extending in an opposite direction to said lugs, a bracket on the axle with portions interfitting but spaced from the longitudinal, side, and end portions of said first named bracket, and a pad of resilient sheet material interposed between said interfitting portions of said brackets; said interfitting end portions being spaced some distance away from the axle, on opposite sides thereof.

2,280,348
HAIR CLIPPER
John Oster, Racine, Wis., assignor to John Oster Manufacturing Company, Racine, Wis., a corporation of Wisconsin
Application November 2, 1940, Serial No. 364,058
2 Claims. (Cl. 30—196)



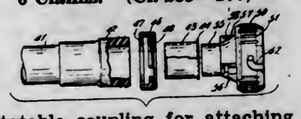
2. In a clipper of the character described: a body having a cavity in its forepart in which the blade driving instrumentalities are disposed and from which a blade driving lever projects forwardly; a cover plate closing the open top of the cavity; a cutter assembly comprising stationary and movable blades; combined tensioning and guiding means acting on the movable blade inwardly of its toothed edge for maintaining the cutter assembly under the proper degree of cutting tension and for constraining the movable blade to reciprocation in a direction parallel to its toothed edge; means mounting the cutter assembly on the forepart of the body so that the cover plate overlies said combined tensioning and guiding means and with the movable blade connected to its driving lever and closely adjacent to the front edge of the cover plate, said blade assembly having its cutting edge extending outwardly past the forward edge of the cover plate to define an obtuse angle with the cover plate and so as to form a shallow pocket in which hair tends to accumulate during the cutting action; and a metal bridging member carried by the cover plate and having a flexible self-adjusting looped portion snugly engaging the adjacent surface of the movable blade between its toothed edge and said tensioning means, said looped portion engaging the top surface of the movable blade with a light spring tension so as not to interfere with reciprocation of the movable blade but sufficient to prevent accumulating hair from packing and wedging into the clearance space between the cover plate and the movable blade.

2,280,349
PIPE SUPPORT
David C. Palm, Geneseo, Ill.
Application January 21, 1941, Serial No. 375,272
3 Claims. (Cl. 248—49)



3. In a pipe support, a base plate, upright members thereon, spaced from the center line of said plate and having curved upper surfaces, a sheet of pliable material extending between said upright members and over the curved surfaces thereof, means for retaining the ends of said sheet in planes tangent to said curved surfaces, and a resilient member interposed between said base plate and the portion of said sheet between said upright members.

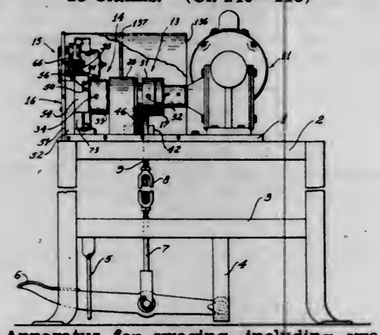
2,280,350
SUCTION CLEANER
Lloyd W. Pardee, Lakewood, Ohio, assignor to The Scott & Fetzer Company, Cleveland, Ohio, a corporation of Ohio
Application June 17, 1940, Serial No. 340,874
6 Claims. (Cl. 285—177)



1. A rotatable coupling for attaching an extension hose to a suction cleaner comprising a flanged sleeve secured in the end of the hose with the flange thereof spaced from the end surface of the hose, a coupling ring with an inwardly turned annular shoulder about one end thereof rotatably mounted on the sleeve between the flange of the sleeve and the end surface of the extension hose, a converter member adapted to be secured to the suction cleaner, said converter member having radially extending bosses with circumferentially extending slots therein, said coupling ring having tapering cam elements adapted to frictionally engage within the slots in

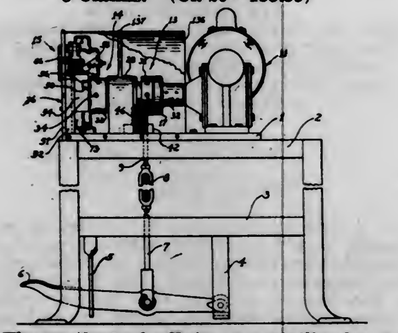
the bosses for removably securing the members together, one end of the suction cleaner converter member being provided with a tubular extension which reposes in said sleeve when the coupling ring is attached to the converter member whereby said hose is freely rotatable with respect to said coupling ring and converter member.

2,280,351
SWAGING APPARATUS
Charles S. Penfold, Elmer E. Johnson, and George H. Brailsford, Bronson, Mich., assignors to H. A. Douglas Mfg. Co., Bronson, Mich., a corporation of Michigan
Application February 1, 1940, Serial No. 316,720
18 Claims. (Cl. 140—113)



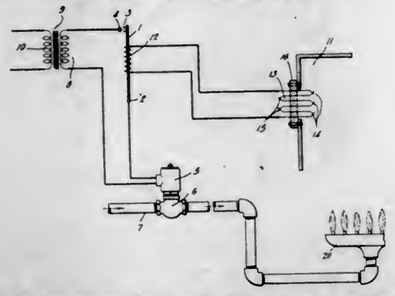
1. Apparatus for swaging, including swaging means, driven means, lost-motion means connecting said swaging means and said driven means, means for driving said driven means, and clutch means arranged in conjuction with said driving and said driven means.

2,280,352
METHOD OF SWAGING
Charles S. Penfold, Elmer E. Johnson, and George H. Brailsford, Bronson, Mich., assignors to H. A. Douglas Mfg. Co., Bronson, Mich., a corporation of Michigan
Original application February 1, 1940, Serial No. 316,720. Divided and this application October 11, 1941, Serial No. 414,662
8 Claims. (Cl. 29—155.55)



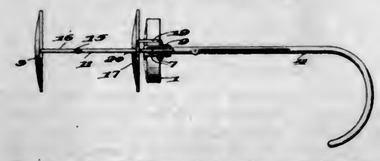
1. The method of affixing a metallic sleeve to a metallic conductor means, comprising: disposing the conductor means in position in the sleeve, swaging in the sleeve simultaneously at a plurality of places spaced about the periphery of the sleeve by driving a plurality of pointed jaws into the sleeve at those places, forging localized sections of the sleeve ahead of said jaws producing a force on the underlying metal of said sections causing a flow of the inner metal of the sleeve to forge the sleeve and the conductor means at the plane of said sections into a solid cross-section, and at the same time drive a plurality of projections inwardly to substantially engage portions of the sleeve intermediate said sections whereby to substantially hold or reshape the periphery of said sleeve while said sections are being forged by said jaws.

2,280,353
TEMPERATURE CONTROL SYSTEM
William A. Ray, Glendale, Calif.
Application February 20, 1940, Serial No. 319,894
9 Claims. (Cl. 236—9)



9. In a system for controlling a source of heat utilized to heat a fluid medium, a thermostat movable to a position for causing an increased activity of the sorce, as well as to another position for causing a reduced activity of the source, said thermostat being subjected to the temperature changes in a space heated by aid of said medium so that an increase in the said temperature of sufficient amount tends to move the thermostat to the position corresponding to a reduced activity of the source, supplemental heating means for the thermostat, for assisting the thermostat to move to the position corresponding to a reduced activity of the source, and means for supplying heat to said supplemental heating means, continuously while said heating means is active, the supplemental heating being so constructed and arranged that the intensity of the heat produced by said supplemental heating means is dependent upon the intensity of the heat of said medium.

2,280,354
BINOCULARS
Louis H. Rezos, Arlington, Va.
Application September 15, 1939, Serial No. 295,145
3 Claims. (Cl. 88—41)



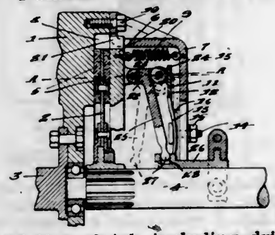
1. In a pair of binoculars, the combination of a pair of main lenses having a bridge connecting the same together, each of said main lenses having a pair of spaced ears projecting outwardly therefrom, temples each having a bifurcated end with the bifurcations thereof pivoted to the spaced ears respectively, auxiliary lenses, and side bars pivotally connected with the auxiliary lenses and telescopically connected with the temples between the pivoted ears and bifurcations for adjustment toward and from the main lenses.

2,280,355
AUTOMATIC WEAR TAKE-UP FOR FRICTION CLUTCHES
Charles B. Spase, Nedrow, and Robert S. Root, Syracuse, N. Y., assignors to W. C. Lipe, Inc., Syracuse, N. Y., a corporation of New York
Application June 24, 1939, Serial No. 280,994
7 Claims. (Cl. 192—111)



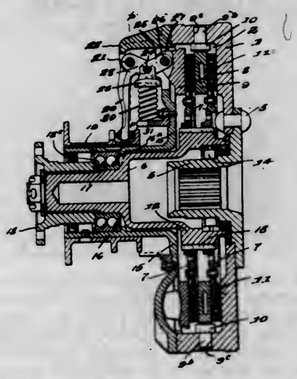
1. In a spring loaded friction clutch including a back plate, an abutment carried by the back plate and adjustable axially of the clutch to take up for wear of the friction faces of the clutch, a spring operable to engage the clutch, and throw-out mechanism including a sleeve, and parts actuated thereby to transfer the movement of the sleeve to engage and disengage the clutch, said parts coacting with the abutment during engaging movement of the clutch, the sleeve having a normal starting position and being movable beyond said starting position, as the friction faces of the clutch wear; the combination of the spring of the clutch re-acting on the sleeve and tending to shift it beyond its normal starting position as the clutch wears and an adjusting nut member carried by the back plate and having threaded connection with the abutment, and means operable by the movement of the throw-out sleeve to actuate the nut member, when the throw-out sleeve starts from a position beyond its normal starting position.

2,280,356
FRICTION CLUTCH
Charles B. Spase, Nedrow, and Robert S. Root, Syracuse, N. Y., assignors to W. C. Lipe, Inc., Syracuse, N. Y., a corporation of New York
Application January 19, 1940, Serial No. 314,664
4 Claims. (Cl. 192—68)



1. In a friction clutch including driving and driven members, a pressure ring element and a back plate element rotatable with one of said members, a clutch shaft, and the other of said members being a friction disk mounted on the clutch shaft and extending between one of the members and the pressure ring element; the combination of a fulcrum ring carried by one of said elements and having high and low portions, and throw-out means comprising a lever pivoted to one of said elements and coacting with the high portion of the fulcrum ring and arranged when the clutch is engaged, so that the pivotal axis of the lever to one of said elements and the point of engagement of the lever with the fulcrum ring, are in a straight line substantially parallel to the axis of the clutch, and being shiftable on its pivot out of said center line to disengage the clutch, the fulcrum ring being resilient and the high points comprising portions bowed out of the plane of the ring toward the element to which the lever is pivoted, and means operable for varying the curvature of the outward bowed portions to compensate for wear of the friction disks.

2,280,357
HEAVY-DUTY CLUTCH
Charles B. Spase, Nedrow, N. Y., assignor to W. C. Lipe, Inc., Syracuse, N. Y., a corporation of New York
Application August 21, 1941, Serial No. 407,784
12 Claims. (Cl. 192—69)



1. In a self-contained, heavy-duty clutch including driving and driven members, a pressure ring, the driven member including a friction plate extending between the pressure ring and the driving member, and mechanism for applying and releasing the pressure ring; the combination with a hub for sleeving on a drive shaft, the driving member being secured to the hub to rotate therewith, the driven member including a hollow portion journalled on the hub within the driving member, a back plate secured to the driving member and having a hub surrounding the driven member, and journal bearings between the last hub and the driven member axially spaced from the bearing between the hollow portion of the driven member and the first hub.

2,280,358
WINDOW SHADE OR THE LIKE
Chester Tietig, Covington, Ky.
Application August 9, 1939, Serial No. 289,247
6 Claims. (Cl. 156—10)

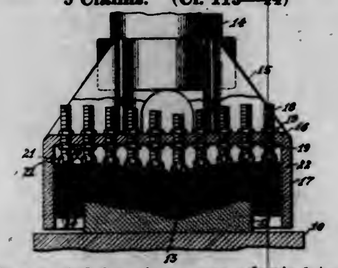
6. A window shade comprising a transparent

sheet, a plurality of spaced stripe thereon, said



strips being of a nature to interfere with the passage of light therethrough.

2,280,359
SHEET METAL FORMING APPARATUS
Charles P. Trudell, Buffalo, N. Y., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application June 10, 1939, Serial No. 278,413
5 Claims. (Cl. 113—44)



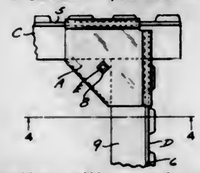
1. In a metal forming press adapted to receive metal forming dies of different contour, a universal die secured to the press for engagement with any one of said first dies comprising a plurality of substantially parallel rows of channel elements, the elements of each row being hinged to the adjacent elements at their ends, a bolt clevised to each element, a plate opposite the forming die having a plurality of rows of spaced holes each adapted to receive the bolt of one said element, means to anchor each bolt adjustably to the plate whereby its associated element may be spaced close to or remote from the plate, and rubber blocks gripped in the channels of said elements in facing relation to the forming die.

2,280,360
GARMENT
Florence Z. Walsh, Hyde Park, N. Y.
Application June 15, 1939, Serial No. 279,379
1 Claim. (Cl. 2—92)



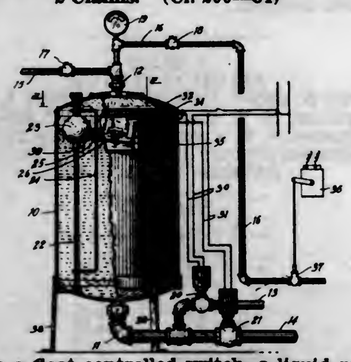
A dickey for women's wear comprising a front panel and a back panel, both panels extending down to the waist line and being spaced at the sides along substantially parallel edges, said panels being joined together at the shoulders and around the neck by means of a loosely fitting collar, elastic bands connecting said panels at the lower ends of their side edges, the upward displacement of the bottom edge of said front panel from said waist line, due to the natural bust configuration of the wearer causing a stress in said elastic bands and a resulting downward pull on the side edges of said front panel, thereby holding the upper portion of said dickey, including said collar, in place.

2,280,361
CLAMP
George H. Ackerman, Webster Groves, Mo., assignor to Missouri Rolling Mill Corporation, St. Louis, Mo., a corporation of Missouri
Application April 15, 1940, Serial No. 329,765
1 Claim. (Cl. 189—36)



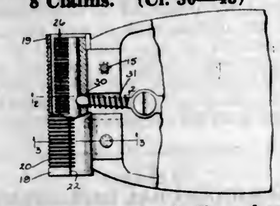
In combination with a pair of T-beams disposed at right-angles to each other, a pair of complementarily shaped clamp-forming plates having inwardly turned marginal channels disposed at right-angles to each other for respectively gripping the cross-webs of the T-beams and having an oblique margin provided with an inturned flange spaced at its ends inwardly from the ends of the channels for extending at its ends adjacent the inwardly presented margins of the center ribs of the T-beams in the provision of a joint-brace, and means for securing said plates to each other and to the T-beams in the formation of a tight joint.

2,280,362
HYDRAULIC OIL FUEL PRESSURE DEVICE
Raymond C. Ainsworth and Marion B. Schultz, Denver, Colo.
Application July 6, 1940, Serial No. 344,230
2 Claims. (Cl. 200—84)



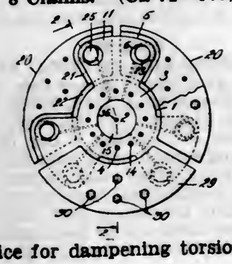
1. In a float controlled switch, a liquid receptacle, a bearing mounted horizontally through a wall of a liquid receptacle, a rocker shaft rotatably mounted through the bearing with its ends projecting from the inner and outer ends thereof, a vertical guide rod in said receptacle, a vertical yoke having upper and lower arms engaged about the rod and mounting the yoke for vertical shifting between raised and lowered positions, a float slidable along the rod between the arm for engaging the arms and shifting the yoke vertically to raised and lowered positions, a lever carried by the inner end of said rocker shaft and extending laterally therefrom towards the yoke and having forks at its end straddling the yoke, a pin carried by said yoke and extending laterally therefrom and engaged between the forks of said lever to actuate the lever and impart rocking movement to the shaft when the yoke is shifted vertically to raised and lowered positions, a switch carried by the outer end of said rocker shaft transversely thereof and adapted to be opened and closed by tilting movement when the shaft is rocked by vertical movement of the yoke, and means to yieldably resist rocking of the shaft by action of the yoke and the float.

2,280,363
SHEARING AND SHAVING HEAD FOR HAIR CLIPPERS
Mathew Andis, Racine, Wis.
Application April 30, 1938, Serial No. 205,255
8 Claims. (Cl. 30—43)



1. The combination of a hollow shear bar for a hair clipper provided with sets of obliquely convergent shear teeth having arcuate inner surfaces, each of said teeth having combing spurs on the end portions of its outer surface, the portion between the opposed extremities of the spurs having arcuate outer surfaces adapted for substantial conformity to the scalp, and a cavitated vibratory cutter bar located within the shear bar and having sets of arcuate teeth in registry with the arcuate portions of the shear bar teeth between their spurs, the spurs on the convergent ends of said shear bar teeth being in registry with the cutter bar cavity and adapted to cause the combed hair to enter said cavity to be engaged by the cutter teeth when moving longitudinally through such hair with a combing action.

2,280,364
VIBRATION DAMPENING DEVICE
Edouard Attesalander, Winterthur, Switzerland, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland
Application May 17, 1939, Serial No. 274,077
In Switzerland January 18, 1939
8 Claims. (Cl. 74—574)



1. A device for dampening torsional vibration in shafts which comprises a base member rigidly fixed to the shaft having two parallel plane surfaces at right angles to the shaft, a plurality of oscillatable members loosely coupled to the base member each having two parallel plane surfaces at a distance apart somewhat greater than the distance between the two parallel plane surfaces of the base member, two side plates each with a plane surface fixed to one of the plane surfaces of an oscillatable member and engaging in slidable contact one of the two parallel plane surfaces of the base member.
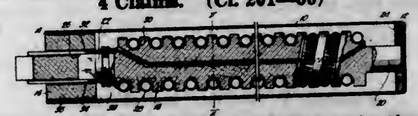
2,280,365
METHOD OF BOTTLING BEVERAGES
Willard E. Baier, Ontario, Calif., assignor to California Fruit Growers Exchange, Los Angeles, Calif., a corporation of California
No Drawing. Application January 2, 1940, Serial No. 311,988
4 Claims. (Cl. 99—28)

1. A process for the preparation of bottled fruit juice beverages which comprises the steps of adding a quantity of a beverage syrup to a bottle, diluting said syrup with a quantity of water having a temperature of from 160° F. to 200° F., said water having an appreciable amount of carbon dioxide gas dissolved therein, capping said bottled beverage and subsequently cooling the same.

2,280,366
REVERSIBLE EXPLOSIVE
Jacob Barab, Wilmington, Del.
No Drawing. Application July 12, 1939, Serial No. 283,967
2 Claims. (Cl. 52—14)

1. A method of producing an explosive mixture comprising, first, intimately mixing NH_4NO_3 and combustibles consisting of particles approaching colloidal dimensions and capable at low density of detonation by a No. 6 or 8 cap; secondly, compressing said NH_4NO_3 and combustibles into a non-explosive (to a No. 6 or 8 cap) mass, and, thirdly, crushing said non-explosive mass into a mixture detonatable by a No. 6 or 8 cap.

2,280,367
ELECTRIC HEATER
William W. Barton, Kansas City, Mo.
Application March 19, 1940, Serial No. 324,839
4 Claims. (Cl. 201—66)



1. An electric heater comprising a hermetically sealed sheath having within it a refractory support, an electric resistance conductor mounted on said refractory support in spaced relation to said sheath and embedded in a powdered, electric insulating material produced by intermixing the following ingredients, by weight, 46% to 89%—silica, 2% to 5½%—aluminum oxide, .9% to 1.25%—ferric oxide, 1% to 2¼%—calcium oxide, and 48% to 1¼%—magnesia.

2,280,368
AIRCRAFT COCKPIT ENCLOSURE
Francis P. Bassett, Kenmore, N. Y., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application December 29, 1939, Serial No. 311,478
11 Claims. (Cl. 244—121)

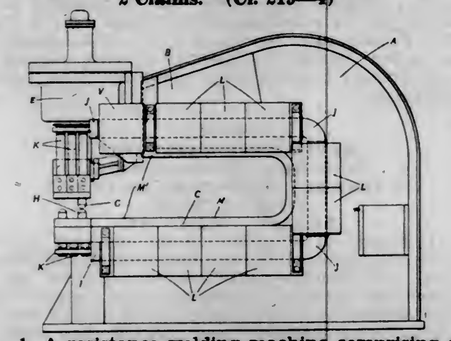
1. In aircraft construction, in a series of tele-

scoping members, the combination of lock means for one of said members adapted to lock the same to the aircraft, mechanism associated with each successive pair of members comprising auxiliary lock means holding each said member relatively



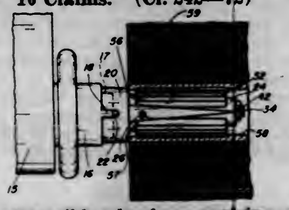
fixed with respect to those next adjacent, and means initiating automatic release of said auxiliary lock means when one member of a pair reaches a predetermined point in its travel, the said auxiliary means locking the last said member to the aircraft as a result of said release.

2,280,369
RESISTANCE WELDING MACHINE
John Wallis Bayles, Sunderland, England, assignor to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England, a company of Great Britain
Application March 31, 1941, Serial No. 386,179
In Great Britain April 11, 1940
2 Claims. (Cl. 219—4)



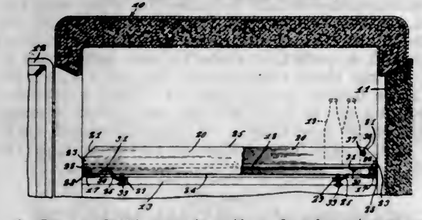
1. A resistance welding machine comprising a pair of arms extending on opposite sides of the space for the work, welding electrodes carried by said arms near the ends of the latter, and a transformer separate from and mounted at the side of the arms and comprising a generally U-shaped conductor constituting a straight-through secondary connected at its ends to the electrodes for supplying current to them, and a plurality of sections of core and primary winding distributed along said secondary conductor.

2,280,370
EXPANSIBLE CHUCK
Franklin P. Bennett, Seattle, Wash.
Application October 14, 1940, Serial No. 361,087
10 Claims. (Cl. 242—72)



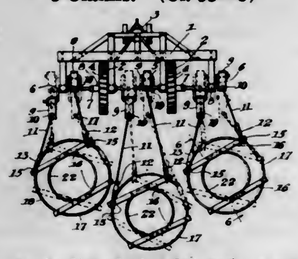
10. An expansible chuck comprising a hollow frusto-conical arbor having a plurality of spaced-apart wedge members on the exterior thereof and openings intermediate of the wedge members, an actuator bolt journaled in said arbor, a non-rotatable traveler nut on said actuator bolt, a series of chuck jaw leaves disposed between pairs of wedge members and cooperable therewith, means passing through each opening in the arbor and cooperable to associate each leaf with the traveler nut.

2,280,371
ADJUSTABLE GUIDE FOR REFRIGERATOR SHELVES
Leroy Bishop, Vista, Calif.
Application January 31, 1941, Serial No. 376,891
5 Claims. (Cl. 211—153)



1. In a shelf construction having transverse front and rear supporting members, vertical guide plates bridging the members and having a portion thereof extending above the members, and clamps pivotally mounted at the opposite ends of each of the plates, each of said clamps having a part extending at one side of its pivot to engage the adjacent supporting member and a part extending at the other side of its pivot having provision for holding the said first part in pressed engagement with its respective member.

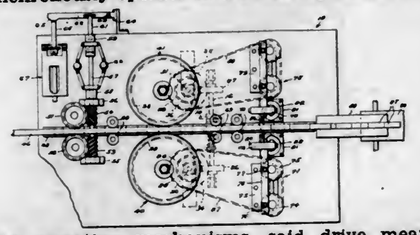
2,280,372
AGRICULTURAL IMPLEMENT
Elmer Carlson, Wetaskiwin, Alberta, Canada
Application December 11, 1939, Serial No. 308,701
In Canada September 9, 1939
3 Claims. (Cl. 55—3)



1. An agricultural implement comprising a hauling frame, a circular cultivating drag, link members of substantially equal length connecting the drag to the hauling frame at two spaced points on the latter, and means on the hauling frame for imparting a reciprocating rotary motion to the drag upon forward movement of the implement.

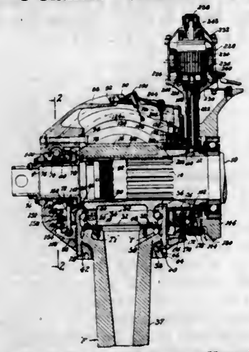
2,280,373
MACHINE FOR CUTTING SOAP
James D. Chaney, Jersey City, N. J.
Application November 4, 1939, Serial No. 302,932
10 Claims. (Cl. 25—106)

1. Apparatus for cutting a bar of soap into blanks of equal length, said apparatus comprising a support including guide means to support the bar for longitudinal movement along said support, friction rollers on said support for engaging opposite sides of said bar, actuating means operating some of said rollers for imparting longitudinal movement to the bar, opposed cutting units located beyond said friction rollers and on opposite sides of said guide means, said cutting units comprising respective blades which are constantly opposed in alignment, operating mechanisms imparting reciprocating motion to the blades, and drive means operatively connected to synchronously operate said actuating means and



said operating mechanisms, said drive means comprising an electric motor, a variable rheostat connected between the motor and a source of electric current, governor mechanism operatively connected to said rheostat, said governor mechanism including friction operated rollers engaged with and driven by said bar of soap in its longitudinal movement.

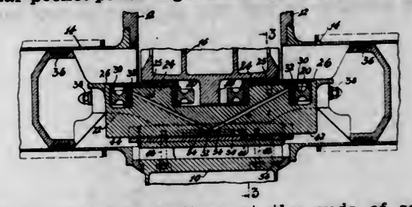
2,280,374
CONTROLLABLE PITCH PROPELLER
Roland Chilton, Ridgewood, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York
Application February 10, 1938, Serial No. 189,775
8 Claims. (Cl. 170—163)



1. A controllable pitch propeller for an engine including in combination a hub, blades mounted thereon for pitch changing rotation, an electric motor secured to said engine, means to energize and to immobilize said motor at will, a normally stationary eccentric mounted for rotation with the hub axis and drivably associated with said motor and pitch changing gearing operatively connecting said eccentric with said blades.

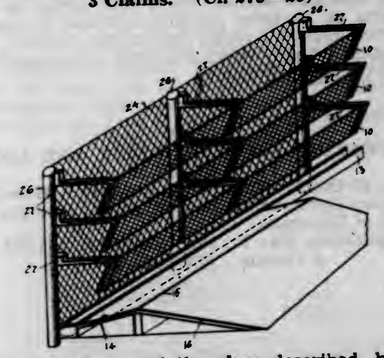
2,280,375
PISTON MECHANISM
Roland Chilton, Ridgewood, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York
Application September 10, 1938, Serial No. 229,285
6 Claims. (Cl. 308—6)

1. In a piston structure comprising a central member having spaced-apart parti-annular pockets formed on one side thereof, an annular roller in each pocket, a cover for each pocket having portions in fitting engagement with the outer and inner cylindrical surfaces defining said pocket, the inner cylindrical surface of said annular pocket providing a bearing support for said



roller, coaxial projections at the ends of said central member, and cylindrical pistons having concentric cylindrical faces in fitting engagement with said projections.

2,280,376
MACHINE FOR PLAYING TENNIS AND THE LIKE
Louis F. Clark, Montebello, Calif.
Application February 12, 1940, Serial No. 318,499
3 Claims. (Cl. 273—29)

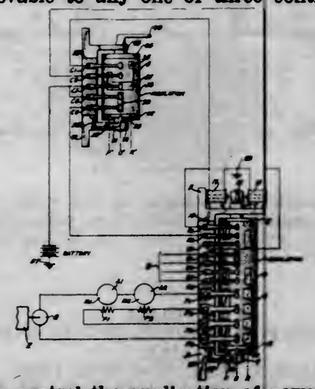


3. In a device of the class described, having fence posts and a fence attached thereto, the combination of a plurality of brackets adapted to be attached to the posts of said fence, said brackets being extended outwardly from said posts and thence extended downwardly and rearwardly and provided with a plurality of nets longitudinally disposed and adapted to be readily attached to or detached from said brackets, each of said nets when so attached, being held in a position downwardly and rearwardly inclined, and each net overlapping the lower portion of the net next above it, being adapted to reduce the speed of a ball striking said nets and cause it to be trapped and fall in a vertical direction.

2,280,377
DISCONNECTING AND REVERSE MECHANISM
John A. Clarke, Jr., La Grange, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 17, 1940, Serial No. 340,887
5 Claims. (Cl. 175—375)

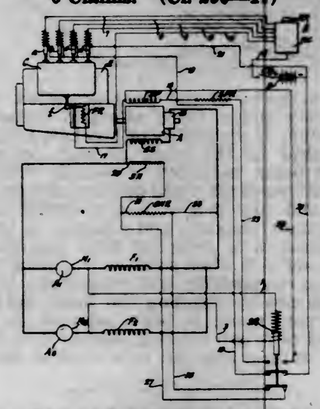
1. In combination, a power operated control device capable of instantaneous movement to any one of three control positions, said power operated device including power operated means, connection reversing and disconnecting control means for said power operated means, and operable thereby, and means for resisting move-

ment of said device in any one of said control positions, and a manually operable controller connected to said power operated means and said control means therefor, said controller being movable to any one of three control posi-



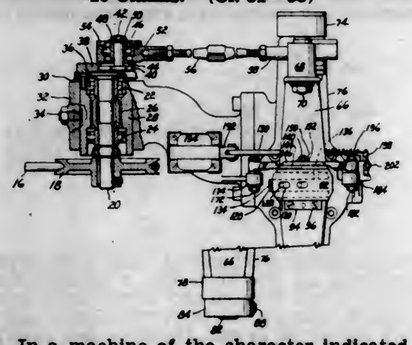
tions to control the application of power to said power operated means when said device is in any one of its three control positions to cause instantaneous follow-up movement thereof to any other of said three positions corresponding to the controller positions.

2,280,378
GENERATING ELECTRIC DRIVE AND CONTROL SYSTEM
Stuart H. Cowin, Chicago, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 31, 1941, Serial No. 395,985
6 Claims. (Cl. 290—17)



1. In a drive and control system of the type described comprising a prime mover generator power plant, output regulating means for the power plant, a pair of traction motors connected in parallel relation with the power plant generator and electrical means for controlling the power plant output regulating means, said electrical means being connected directly between the motors to operate instantly upon being energized by circulation of current between the motors caused by any slight overspeeding of either motor, operation of said electrical control means causing the output of the power plant to be instantly reduced, thereby preventing overspeeding of either motor.

2,280,379
HONING MACHINE AND METHOD
Raymond H. Cramer, Newark, N. J., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 25, 1939, Serial No. 270,548
19 Claims. (Cl. 51—58)



1. In a machine of the character indicated, a carrier, mechanism for oscillating the carrier around an axis, a hone shiftable with respect to the carrier, a cam having a pivotal support upon the carrier in line with the axis of oscillation, and a stop lever adapted to arrest the cam to control a shifting movement of the hone; substantially as described.

2,280,380
TIRE REMOVING TOOL
Frank E. Davenport, Geneva, Iowa
Application April 8, 1941, Serial No. 387,536
2 Claims. (Cl. 157—6)

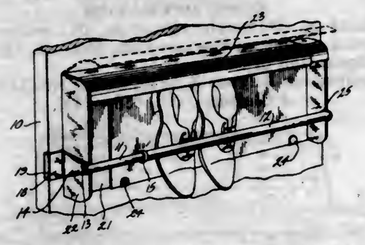


1. A tool of the class described comprising a pair of relatively long and short flat levers opposed in edge to edge relation, the longer lever terminating in a grapping hook end, a second grappling hook pivoted at one end to the longer lever in the rear of the terminal hook thereof, the shorter lever being pivoted at one end to the second grappling hook intermediate the ends of the latter, and a link having its ends pivotally connected to the long and short levers, respectively, in the rear of the pivotal connections of the second grappling hook and said short lever, said pivotal connections of said link to said levers being spaced different distances from the pivotal connections of said second grappling lever and that of the short lever.

2,280,381
SHOE RACK
Harold G. Davis, Denver, Colo.
Application May 28, 1940, Serial No. 337,597
6 Claims. (Cl. 211—35)

3. A shoe rack for attachment to a door comprising: a telescopically expansible rack bar; a bracket member secured to each of the outer extremities of said rack bar; a tension spring within said rack bar constantly urging it toward its contracted position; a base portion on each bracket member extending outwardly at right an-

gles thereto and parallel to the axis of said rack bar; a flange portion extending inwardly along the outer edge of each base portion and at right angles thereto to engage the side edges of a door; imbedding means on said flanges to be held im-



bedded in said door by the action of said spring; and a telescoping enclosure held against said door by said rack bar said enclosure being provided with notches receiving the rack bar whereby the enclosure is supported.

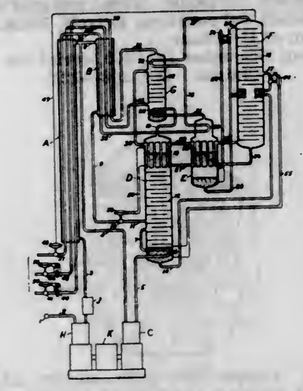
2,280,382
RACKET HANDLE
Theophilus A. Davis, Los Angeles, Calif.
Application November 19, 1940, Serial No. 366,198
2 Claims. (Cl. 273—75)



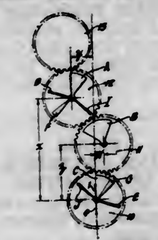
1. A racket handle having longitudinally spaced, circumferential, handle-encircling grooves sunk in its surface, said grooves defining a plurality of handle surfaces, and an exterior sheath of leather or the like closely engaging said handle surfaces defined by the grooves, pressed into the grooves, and secured by adhesive to both the handle surfaces and the groove surfaces.

2,280,383
METHOD AND APPARATUS FOR EXTRACTING AN AUXILIARY PRODUCT OF RECTIFICATION
William Lane De Baufre, Lincoln, Nebr.
Application September 8, 1939, Serial No. 293,935
19 Claims. (Cl. 62—122)

6. Method of rectifying mixed fluids which includes subjecting the mixed fluids to rectification into two principal vapor products, rectifying a portion of one principal vapor product by a liquid reflux produced by liquefying part of the rectified vapor in heat exchange with the other principal vapor product, withdrawing the unliquefied part of the rectified vapor as an auxiliary product of the rectification, and commingling the liquefied part after rectification with the first principal vapor product.

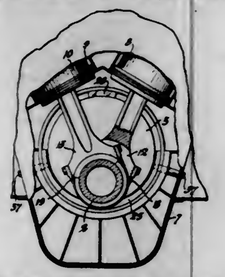


2,280,384
ENGINE BALANCING
John Dickson, Ferndale, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 5, 1939, Serial No. 277,428
5 Claims. (Cl. 74—604)



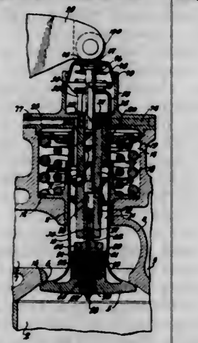
1. In a multi-cylinder engine with a frame, a bank of cylinders in line, pistons in the cylinders and a crankshaft with a crank arrangement such that the piston side thrust forces produce a resultant frame twisting couple in a plane parallel to the crankshaft axis and normal to the plane of the cylinder center lines, and a corresponding reaction frame twisting couple in a similar plane containing the crankshaft axis, an arrangement for balancing any harmonic of such a frame twisting couple and its corresponding reaction frame twisting couple at the crankshaft, comprising means for producing alternating oppositely phased couples in planes at opposite ends of the engine and normal to the crankshaft axis, said means including at least two revolving eccentric weights in each of said planes at opposite ends of the engine, said weights being driven from the engine crankshaft in a like direction at the speed of the harmonic to be balanced and about axes on the engine frame spaced from each other in said planes, and said two weights at each end of the engine including component masses of suitable mass and moment phased oppositely to each other in their plane of rotation and so phased relatively to the crankshaft that the couples produced thereby in said planes at opposite ends of the engine are equal but opposite in phase and are opposite to the couples to be balanced in said planes.

2,280,385
BEARING
John Dickson, Ferndale, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 13, 1940, Serial No. 369,956
3 Claims. (Cl. 308—121)
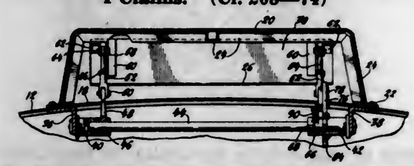


1. In a V-type two-cycle engine having a crankshaft with circular crank cheeks of radius approximately equal to the radius of the crank throw, and forming the main journals of the crankshaft, the loads on said crankshaft being at an acute angle to each other in a generally downward direction, plain bearings for said main journals each consisting of but two surfaces, normal to said loads, tangential to the crankshaft and at obtuse angles to each other; said surfaces having clearance from said crankshaft progressively increasing away from their point of tangency thereto and providing tapered clearance spaces through which lubricating oil, to maintain oil film areas on said surfaces of adequate dimension to support the crankshaft loads while being of minimum dimension to reduce friction losses, is forced by the rotation of said crankshaft.

2,280,386
COMBINED ENGINE CYLINDER VALVE AND FUEL INJECTOR
John Dickson, Ferndale, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 9, 1941, Serial No. 387,710
5 Claims. (Cl. 123—139)



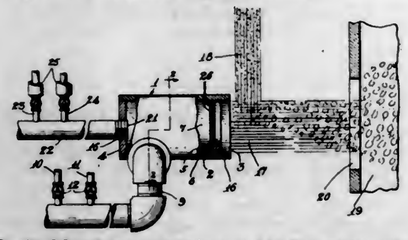
1. In a combined engine cylinder valve and fuel injector, a stationary fuel pump cylinder, a pump plunger, a spindle for said valve, said plunger and spindle being reciprocable in said pump cylinder, means normally holding the valve closed, means normally holding the pump plunger in a position spaced from the spindle to provide a pumping space therebetween, and means to move the plunger towards the spindle to pump fuel from said space and then to open said valve by direct thrust of the plunger on said spindle.

2,280,387
DOOR OPERATOR
Richard M. Dilworth, Hinsdale, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 2, 1940, Serial No. 349,912
4 Claims. (Cl. 268—74)



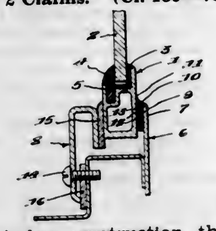
1. A mechanism for operating a door pivotally mounted at one edge of an opening, comprising a notched sector stationarily supported adjacent the opening, an arm mounted for movement relative to said sector, linkage connecting said arm to said door, a lever mounted on said arm by a double pin and slot connection which allows the lever to rock in either direction relative to the arm and sector, said lever being provided with a tooth which normally rests in one of the notches in the sector, and a handle for actuating the lever, movement of the handle in either direction serving to rock the lever about one of the pin and slot connections as a pivot point thereby lifting the tooth out of the notch in the sector and allowing the lever and arm to be moved relative to the sector to open or close said door.

2,280,388
MEANS FOR APPLYING AN ADHESIVE COATING TO NEWLY FORMED MINERAL WOOL FIBERS
Daniel C. Drill, Wabash, Ind., assignor to American Rock Wool Corporation, Wabash, Ind., a corporation of Indiana
Application May 27, 1939, Serial No. 276,255
7 Claims. (Cl. 299—140)



3. In blowing apparatus, a blast nozzle means adapted to be used in the production of adhesively treated mineral wool fibers shredded by a main steam shredding blast and treated at the time of formation with a liquid or molten adhesive in a second and adhesively treated steam stream, said blast nozzle means including a recessed body having a longitudinally extending peripheral outer wall approximating triangular in cross section, a rear wall, a front wall and a longitudinally extending substantially U or V-shaped inner wall connected to each of said outer, front, and rear walls and dividing the interior of said recessed body into an outer main steam shredding blast conduit and a longitudinally extending adhesively treated steam stream conduit, said last mentioned conduit being positioned above said first mentioned conduit and being approximately triangular in cross section adjacent to and within said front wall, said main steam shredding blast conduit having a substantially U or V-shaped orifice positioned below said front wall and intermediate of said outer and inner wall and having a steam inlet adapted for operative connection to a suitable source of steam supply, and said adhesively treated steam stream conduit having an inlet adapted for operative connection to a suitable source of supply of steam which is adhesively treated, said front wall being perforated above said U or V-shaped orifice to provide a discharge outlet for said steam stream conduit.

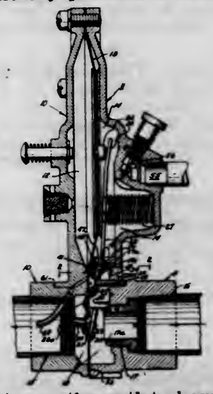
2,280,389
WINDOW CONSTRUCTION
Harold Edwards, Syracuse, N. Y., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y., a corporation of New York
Application May 6, 1940, Serial No. 333,451
2 Claims. (Cl. 189—75)



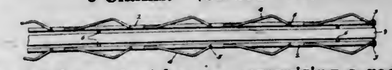
1. In a window construction, the combination with a window frame confining a window opening, a sash mounted in the frame, the frame having a wall opposed to one side of the sash, and means for clamping the sash toward said wall; of a strip of compressible resilient material including a base interposed between said wall and the opposing side of the sash and being provided with a plurality of flexible resilient projections to engage the sash and flex individually relatively to the base of the strip during tightening of the sash toward said wall to conform to and compensate for irregularities in the surface of the sash and of said wall, the strip being also formed with a head located beyond the edge of said wall and provided with a flexible resilient lip for engaging the sash in advance of the engagement of the projections with the sash during the tightening action of the sash toward said wall.

2,280,390
PRESSURE REGULATOR
Paul W. Ensign, San Marino, Calif., assignor to Ensign Carburetor Co. Ltd., Huntington Park, Calif., a corporation of California
Application December 12, 1939, Serial No. 308,804
15 Claims. (Cl. 137—153)

1. In a pressure regulator of the type having a pressure movable diaphragm, a low pressure chamber at one side of the diaphragm, a high pressure inlet including a valve seat, a low pressure outlet chamber valvularly communicating with the inlet, a valve, and a communication passage between the low pressure diaphragm chamber and the outlet chamber, the first mentioned communication being independent of the second mentioned communication; a unitary pivoted valve lever connected at one end with the valve, extending through the communication passage and connected at the other end with the diaphragm, and a barrier member extending across said passage and forming a pivot within said passage for the valve lever, said barrier and lever together forming an obstruction which nearly fills the cross-section of the passage and thereby provides a restricted communication between the outlet chamber and the diaphragm chamber so that the outlet pressure is restrictedly communicated to the diaphragm chamber.

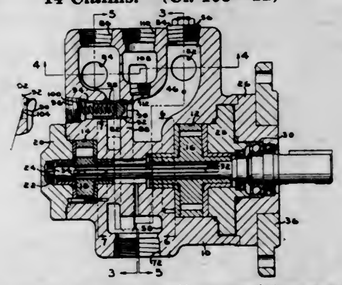


2,280,391
TOBACCO LEAF HANGER
Jack Hays, Tompkinsville, Ky., assignor of one-half to James C. Carter, Jr., Tompkinsville, Ky.
Application September 19, 1941, Serial No. 411,563
5 Claims. (Cl. 294—5.5)



3. A tobacco leaf hanger comprising a rod for mounting on a stick, crossheads mounted on said rod and engageable with the stick for preventing rotation of said rod thereon, and a plurality of resilient clips mounted on the rod.

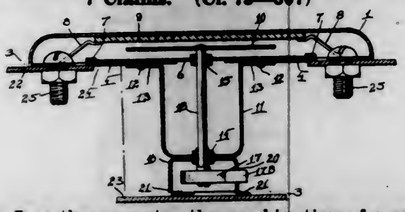
2,280,392
POWER TRANSMISSION
Kenneth R. Herman and Ferris T. Harrington, Detroit, Mich., assignors to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application January 10, 1940, Serial No. 313,170
14 Claims. (Cl. 103—11)



1. A multiple pump unit comprising a unitary body having a plurality of pumps mounted therein, passages in the body forming separate delivery conduits for each pump, a passage in the body forming a relief conduit, a normally closed pressure-operated valve connected between one delivery conduit and the relief conduit and nor-

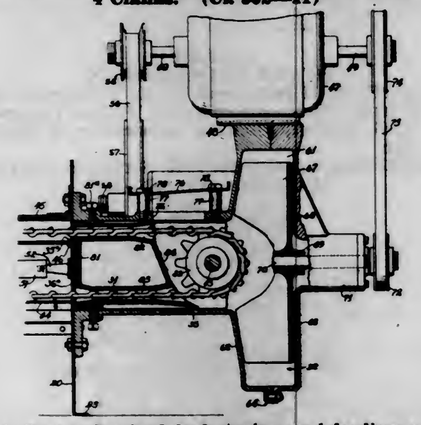
mally blocking communication therebetween, and means selectively available for rendering said valve responsive to pressure in either the one delivery conduit or the other delivery conduit.

2,280,393
OVEN THERMOMETER
George E. Ford, Rochester, N. Y., assignor to Rochester Manufacturing Co. Incorporated, Rochester, N. Y., a corporation of New York
Application March 13, 1939, Serial No. 261,523
7 Claims. (Cl. 73—367)



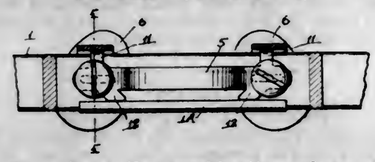
7. In a thermometer the combination of a case having a pointer stem rotatable therein, an open ended supporting cup spacedly mounted on said case and having an opening in the wall thereof, a bi-metallic coil in said supporting cup, a connecting ear centrally of said bi-metallic coil, an extension ear on the outside of said bi-metallic coil with said connecting ear fixedly supported on said pointer stem and said extension ear loosely supported in the opening of the wall of said supporting cup, and yielding contact members on the edge of said supporting cup, one of said members being in close proximity to said extension ear.

2,280,394
PULVERIZED FUEL STORING AND FEEDING APPARATUS
Aubrey J. Grindle, Chicago, Ill.
Application September 22, 1938, Serial No. 231,238
4 Claims. (Cl. 302—11)



1. In a pulverized fuel storing and feeding apparatus including a fuel hopper, a feeding mechanism comprising, in combination, a housing mounted at one end of the hopper, a blower enclosed in said housing, an endless chain conveyer running through said hopper and into said housing for carrying fuel from the hopper to said blower, and guard means mounted in said housing to prevent withdrawal of fuel from the hopper by said blower, said guard means comprising a member adapted to close one end of the housing and formed to provide two longitudinally extending ducts for the passage of the conveyer chain between the hopper and the housing.

2,280,395
TRUSS
Julius E. Hansen, Rochester, N. Y.
Application October 18, 1940, Serial No. 361,767
4 Claims. (Cl. 128—100)



1. In a truss the combination of an elastic waist band, a pair of pads supported by said waist band, an adjustable, relatively narrow and substantially rigid and outwardly bowed connecting member connecting said pads on said waist band, a substantially non-elastic strap attached to said waist band to longitudinally extend over said connecting member and held faced from said waist band by said connecting member, a pair of leg straps attached to said connecting member at the point of attachment of said pads and extending between said connecting member and said non-elastic strap.

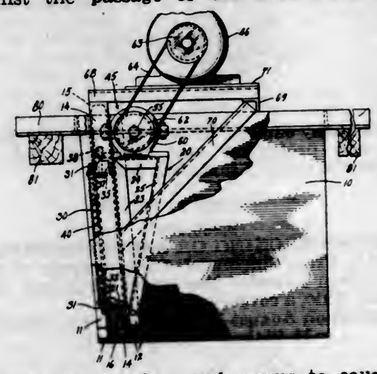
2,280,396
HUMAN HOIST
Cecil R. Gentry, Oklahoma City, Okla.
Application January 21, 1941, Serial No. 375,220
5 Claims. (Cl. 304—18)



1. A workman's hoist including: a pulley block; a line threaded through the block; a stirrup attached to one end of the line; a laterally projecting hook carried by the stirrup for engaging work; a belt attached to the line above the stirrup for encircling a person's waist; and a second hook connected to the line above the stirrup for engaging said work, said hooks co-acting to anchor the workman against swinging movement away from said work.

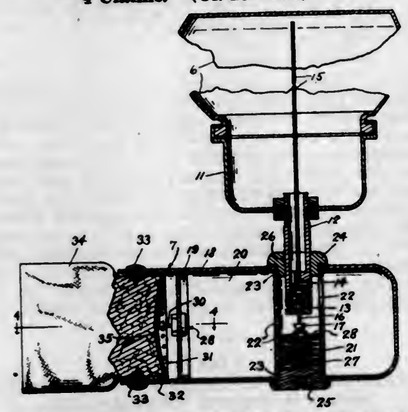
2,280,397
VIBRATING UNIT
Frank Emery Hutchison, Lake Bluff, Ill.
Application January 31, 1939, Serial No. 253,769
13 Claims. (Cl. 210—152)

1. A vibrating unit comprising a channel, for a fluid, formed to direct the fluid in a definite path, an apertured member, a resilient element to support the member in the channel across the path of the fluid and constantly serve as a dam against the passage of the fluid other than



through the member, and means to cause vibration of the member to force undesired portions in the fluid from the member and allow portions of the fluid to pass therethrough.

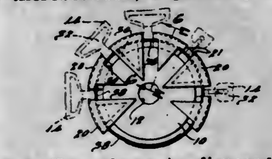
2,280,398
SWAB
Lewis Albert Harvey, Ashtabula, Ohio
Application January 23, 1941, Serial No. 375,686
4 Claims. (Cl. 15—123)



1. The combination of a liquid storage reservoir, a support therefor, a fountain swab including a hollow handle removably engaged with the storage reservoir, a spring closed inlet valve in the hollow handle adapted to be opened upon engagement of the handle with the storage reservoir, and means carried by the storage reservoir stopping the flow of liquid therefrom into the handle when the valve therein is open and liquid has reached a predetermined level in the handle.

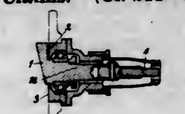
2,280,399
BUFFING WHEEL
Rosner A. Garling, Lansing, Mich., assignor to Bruce Products Corporation, Detroit, Mich., a corporation of Michigan
Application November 20, 1940, Serial No. 366,325
10 Claims. (Cl. 51—193)

1. A buffing wheel comprising a central disc adapted to be mounted on a shaft for rotation therewith, a plurality of holding members secured to said disc adjacent the periphery thereof and spaced therearound, said members having peripheral portions spaced outwardly from and overlying the periphery of said disc to provide channels therebetween, a plurality of centrally



apertured buffing elements disposed about the periphery of said disc, and means attaching said elements to said members, said means having portions which engage said elements through said apertures and having other portions which engage said members within said channels.

2,280,400
APPARATUS FOR DETECTING AND/OR PREVENTING ICE FORMATION
Maurice Green, Patchway, near Bristol, England
Application March 10, 1939, Serial No. 261,087
In Great Britain March 11, 1938
18 Claims. (Cl. 244—134)

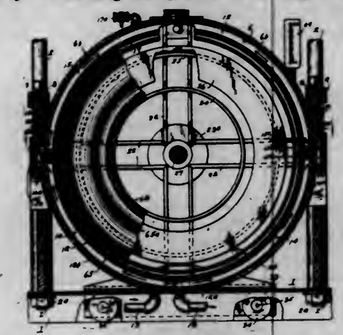


16. Apparatus for detecting ice formation, comprising the combination of a part having a surface on which ice may form, a rotatable vane having an edge movable in close proximity to but not in contact with the said surface, a rotatable shaft supporting the said vane and passing through a bore in the said part, means for moving the shaft longitudinally to adjust the clearance between the edge of the vane and the said surface, means for rotating the shaft, de-icing apparatus, and means associated with the vane shaft and operative to initiate the operation of the de-icing apparatus when the movement of the vane is impeded by ice formation on the surface of the said part.

2,280,401
TIRE RECAPPING MACHINE
Chester W. Fryckstrom and Victor A. Nelson, Portland, Oreg.
Application August 31, 1938, Serial No. 227,714
9 Claims. (Cl. 18—18)

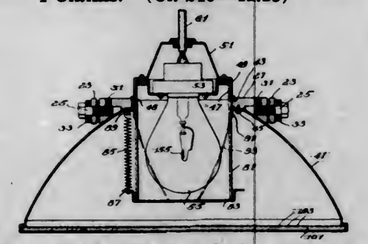
6. In a tire recapping machine, a frame, an annular mold element comprising two separable halves, said mold element extending generally in a vertical plane with the parting line of said mold halves extending generally horizontally, said frame defining a guideway, means for moving said halves relatively to each other, said means functioning to force one of said halves along said guideway, means for heating said mold halves, and side members arranged at opposite sides of said guideway and adapted to engage the sides of a tire in said mold, said side members being physically spaced from the mold halves and adapted to dissipate heat from the tire sides, said frame including two spaced notched vertical members lying substantially tangential to said vertical members the exterior of said mold element halves, a wedge-shaped transverse mem-

ber joined to and extending transversely of the space between said vertical members, the ends thereof extending into said notched members, radially extending flanges carried respectively by



said mold halves, said transverse member closely overlying said flanges, and means engaging said transverse member for exerting pressure against said radially extending mold flanges.

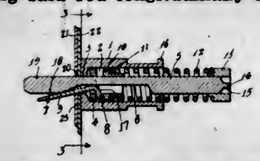
2,280,402
DENTAL OPERATING LAMP
Ernest H. Greppin, Brighton, N. Y., assignor to Wilmot Castle Company, Rochester, N. Y., a corporation of New York
Application August 10, 1939, Serial No. 289,444
4 Claims. (Cl. 240—41.15)



1. A lamp including a reflector, a source of light associated with said reflector to cast light thereon to be reflected thereby, a cylinder of light transmitting and heat absorbing material surrounding said source of light and interposed in the path of travel of light therefrom toward said reflector, a cylindrically shaped blocking member of material opaque to light closely surrounding said heat absorbing cylinder and blocking the travel of part of the light from said source toward said reflector approximately along two diametrically opposite directions, to control the dimensions of the beam of reflected light projected from said reflector, and a light transmitting element interposed in the path of reflected rays projected from said reflector, said transmitting element being provided with a plurality of diffusing ribs.

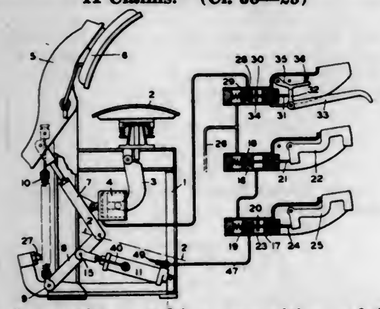
2,280,403
CLAMP
Donald H. Finkle, Los Angeles, Calif.
Application January 20, 1942, Serial No. 427,435
8 Claims. (Cl. 85—5)

3. In a clamp, a body, a rod longitudinally movable in said body, a finger longitudinally and pivotally mounted in said body and of such size that the combined diameter of said rod and finger are less than the size of rivet holes to be aligned, a projection on said rod, tension means for moving said rod longitudinally in said body



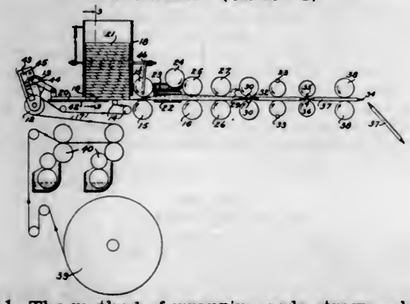
and normally causing contact between said finger and said projection and clamping said rod against the walls of said rivet holes.

2,280,404
MOTION CHECKING OR SNUBBING DEVICE
Lester C. Frey, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Norwood, Ohio, a corporation of Ohio
Application August 7, 1939, Serial No. 288,692
11 Claims. (Cl. 38—25)



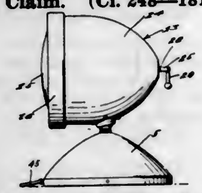
1. A pressing machine comprising relatively movable head and bed pressing members, a cylinder and piston motor operatively connected to one of said members for closing the press, means operatively connected with the other of said members for producing pressure between said members, the cylinder chamber of said motor having active and inactive spaces on opposite sides of said piston, a pressure fluid suply to the active space of said chamber, and a passageway establishing communication between the active and inactive spaces of said chamber when the piston nears the end of its press-closing stroke.

2,280,405
METHOD OF PACKAGING SODA STRAWS
George O. Frostad, Milwaukee, Wis.
Application July 11, 1940, Serial No. 344,874
10 Claims. (Cl. 93—3)



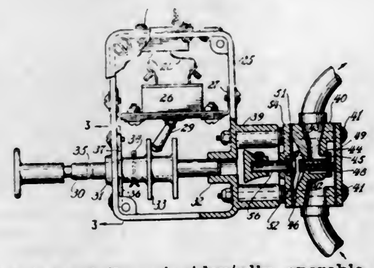
1. The method of wrapping soda straws, which comprises, continuously longitudinally advancing a web of wrapping material, feeding successive batches of the straws in endwise spaced relation upon the advancing web, folding the advancing web about the straws and securing the longitudinal web edges to provide a tubular enclosure, forming opposite inwardly extending approximately triangular tucks in the advancing tube at each space between successive batches of straws and collapsing the adjacent tube portions against the tucks, and swaging the advancing tube at said spaces and transversely across the tucks to seal the tube at the opposite ends of each batch.

2,280,406
LIGHT PROJECTOR
Felix H. Gazin, Rome, N. Y.
Application September 13, 1940, Serial No. 356,694
1 Claim. (Cl. 248—181)



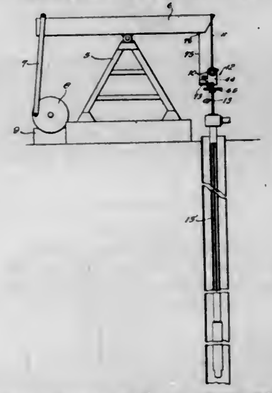
A light projector comprising a hollow base, a projector shell for mounting on said base, said projector shell provided with a socket in the bottom portion thereof, a ball above said base movably disposed in the socket and having a diametrical bore therethrough, a tubular member extending from the base to define a conductor conduit, said tubular member extending through the bore of the ball and being clamped to said base, said socket being in a pair of sections, one of said sections being yieldably mounted and adapted to exert pressure against the ball, the other section forming an integral part of the shell.

2,280,407
HEATER CONTROL
James B. Harder, Buffalo, and Frederick I. Steele, Kenmore, N. Y., assignors to Curtiss-Wright Corporation, a corporation of Delaware
Application December 23, 1940, Serial No. 371,338
1 Claim. (Cl. 200—53)



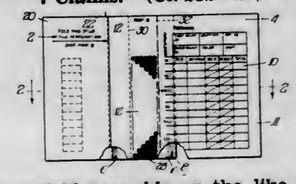
A substantially coincidentally operable electric switch and fluid valve assembly comprising a switch housing having a toggle switch including an operating lever secured therein, a plunger axially slidable through said housing having spaced arms bracketing the toggle switch lever whereby push and pull on said plunger operates said switch, a valve housing secured to said housing having inlet and outlet ports and a valve seat therebetween, a poppet valve coaxial with said plunger movable into and out of engagement with said seat, the operating movement of said poppet valve being less than the movement of said plunger for switch operation, said poppet valve having a stem projecting through said valve housing toward said plunger, an axially movable device coaxial with said plunger and stem and providing an operating connection between said plunger and said valve stem, said device and plunger being of such length that the major outer part of plunger movement, used in operating said switch, has no effect upon said valve stem, the plunger during the inner minor part of its movement making contact with said device and pressing said device against the valve stem and lifting the poppet valve from its seat, and resilient means urging said valve against its seat.

2,280,408
POLISH ROD HANGER AND ROTATOR
Robert C. Johnston, Tyler, Tex.
Application February 6, 1940, Serial No. 317,548
12 Claims. (Cl. 255—14)



1. In combination with a pump polish rod, a hanger having reciprocating movement, said hanger including a housing, means carried thereby for engaging the polish rod on the up-stroke of the hanger to cause the rod and hanger to move in unison, and means interposed between the engaging means and the housing for permitting relative lateral movement between the engaging means and the housing whereby the longitudinal axis of the polish rod may move laterally with relation to the longitudinal axis of the hanger.

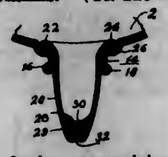
2,280,409
MANIFOLD ASSEMBLY
John R. Keeley, Chicago, Ill., assignor to International Tag & Salesbook Company, Chicago, Ill., a corporation of Illinois
Application May 19, 1941, Serial No. 394,133
7 Claims. (Cl. 282—23)



1. A manifold assembly or the like, comprising an original record sheet having an area on one side thereof provided with transfer material, a copy record sheet disposed in association with said transfer material and secured to said original record sheet on opposite sides of said trans-

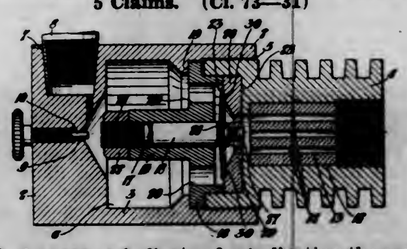
fer material, and said original and copy record sheets on opposite sides of said transfer material having weakened severance lines within the boundaries of the secured portions of the original and copy record sheets whereby a part of said original record sheet and an attached part of said copy record sheet may be detached from another part of said original record sheet and another part of said copy record sheet attached thereto.

2,280,410
NURSING BAG
Hugh R. Keltner, Johnson County, Kans.
Application December 2, 1940, Serial No. 368,177
4 Claims. (Cl. 119—71)



1. A feeding device comprising a nursing bag having a filler opening in its upper portion and a plurality of holes in its lower portion, and a removable flexible teat extending through each hole and surrounded at its upper end with an integral marginal bead overlapping the margin of the associated hole.

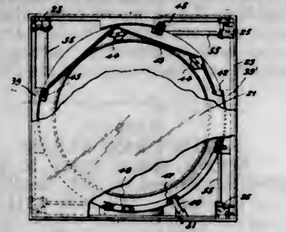
2,280,411
PRESSURE INDICATOR
William J. Kiene, Chicago, Ill.
Application January 3, 1939, Serial No. 249,072
5 Claims. (Cl. 73—31)



3. A pressure indicator for indicating the maximum pressure in the cylinders of internal combustion engines and the like comprising a hollow body member, a pressure indicator connected to said body member, an inherently resilient disk-like valve, means for securely supporting and guiding said valve in said body member, a tapered valve seat arranged in said body member with which said valve is adapted to cooperate, said valve being constructed and arranged so that the seating thereof on said tapered valve seat is variable and controlled by the differences in pressure exerted on the top and bottom sides of said valve, means for limiting the movement of said valve in said body member, means for adjusting the position of said valve relative to said tapered seat, and means for connecting said body member to the cylinder to be tested.

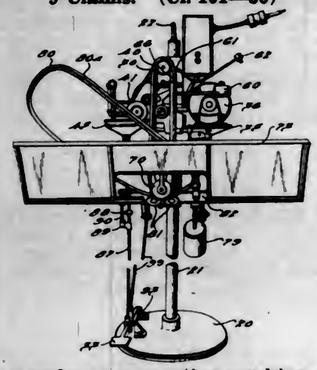
2,280,412
FOLDING TABLE
Edwin F. Knowles, Phoenix, Ariz.
Application December 4, 1939, Serial No. 307,501
4 Claims. (Cl. 311—82)

1. A device of the class described comprising a body, a plurality of legs hingedly secured to the body and adapted to be moved to and from an extended position with respect to the body, an actuating ring rotatably mounted upon the body, guiding means engaging the ring and carried by the body, tension means anchored at one end with respect to the body and secured at its opposite end to the actuating ring for automatically ro-



tating the ring, means connecting the legs to the ring for moving the legs to and from an extended position, latch means releasably engaging the ring for selectively holding the ring in a set position, and guiding pulleys carried by the ring for guiding the tension means around portions of the ring.

2,280,413
SURFACE ORNAMENTING MACHINE
Nicholas George Koppinger, St. Clair Shores, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application July 19, 1939, Serial No. 285,373
9 Claims. (Cl. 101—36)

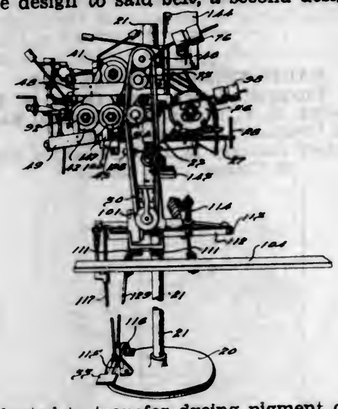


1. In a surface ornamenting machine, a transfer member, a workpiece supporting table movable to and away from said transfer member through a predetermined stroke the near end of which is arranged so as to give a certain clearance between said workpiece and said belt, and a guide roller adapted to engage the workpiece and carried by said table through the stroke of the latter and adapted to move independently of said table through said clearance in order to establish or to break the contact between the workpiece and the transfer member.

2,280,414
SURFACE ORNAMENTING MACHINE AND METHOD
Nicholas G. Koppinger, St. Clair Shores, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application August 16, 1939, Serial No. 290,508
16 Claims. (Cl. 101—175)

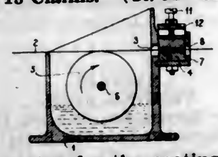
1. In a surface ornamenting machine, an endless pigment receiving belt adapted to transfer

the pigment to the surface of a workpiece, a design roller adapted to transfer dyeing pigment of one design to said belt, a second design roll-



er adapted to transfer dyeing pigment of a second design, and an intermediate member adapted to receive the pigment from said second roller and to transfer it to said belt.

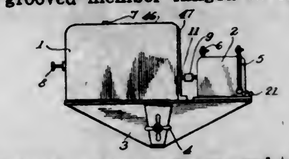
2,280,415
APPARATUS FOR THE COATING OF WIRES, CABLES, TEXTILE THREADS, AND STRIPS
William Oliver Larmuth, Alpraham, near Tarporley, England, assignor to Rotalac Limited, Lymm, Cheshire, England, a British company
Application October 30, 1939, Serial No. 302,042
In Great Britain October 31, 1938
13 Claims. (Cl. 91—33)



1. An apparatus for the coating of wires, cables, textile threads, strips and the like with cellulose esters, comprising a vessel containing the cellulose ester in solution, a plurality of separate die compartments associated with said vessel for mounting dies in parallelism, a pair of dies in each compartment providing a series of dies to consecutively operate on the same wire or the like, means adjustable at right angles to the direction of travel of the wire or the like through the dies to clamp the dies in the compartments, and means for applying the cellulose ester in the vessel to the wire or the like as it enters the dies, each pair of dies having an aperture for the passage of the wire or the like.

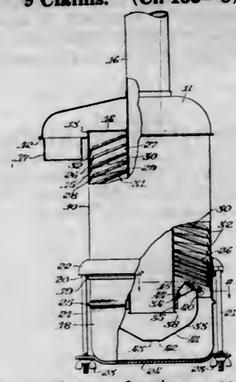
2,280,416
URINE PUMP
Helmuth R. Liebetrau, Passaic, N. J.
Application April 6, 1938, Serial No. 200,515
2 Claims. (Cl. 248—229)

1. A pump support for securing a surgical pump to a bed post or like support and enabling its ready removal for cleaning, comprising a relatively flat base plate, means to support said plate in a substantially horizontal position on a bed post or like fixture including a reinforcing plate extending substantially normal from the underside of said base plate, a projecting member on said reinforcing plate substantially normal thereto and provided with a recess therein to receive the bed post or like fixture, means to clamp the bed post or like fixture in said recess, a U-shaped bracket on the upper surface of said base plate, said bracket being grooved to receive a pump base, a grooved member hinged to one arm of



said U-shaped bracket and arranged to be swung into position across the closed end of said U-shaped bracket to secure the pump base in position on said base plate, and easily removable fastening means to secure the free end of said hinged element to the opposite arm of said U-shaped bracket.

2,280,417
AIR CLEANER
Gustave E. Lundberg and Arthur R. Crawford, Riverside, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application March 18, 1940, Serial No. 324,584
9 Claims. (Cl. 183—8)

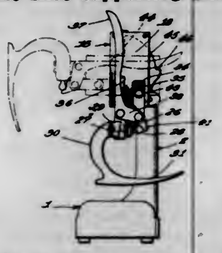


1. In an air cleaner having a casing, a central air inlet tube and an oil cup at the bottom of the casing in spaced relation with respect to the inlet tube, and, in combination therewith, a baffle structure at the bottom of the casing including a baffle member extending radially outwardly and upwardly from adjacent the bottom of the inlet tube, said baffle being formed with a plurality of openings forming air flow passages and with channels therebetween for the flow of oil toward the tube and oil drain means adjacent the air inlet tube delivering the oil directly into the air stream outside and at the bottom of the tube.

2,280,418
SHOE REPAIRING MACHINE
Harry R. Myers, Zanesville, Ohio
Application December 4, 1939, Serial No. 307,533
8 Claims. (Cl. 12—33)

1. In a shoe repairing machine, a base, a standard carried by the base, a head carried by the standard, a shoe supporting element, an anvil carried by the base beneath the shoe supporting element, a plunger carried by the head and operatively connecting the shoe supporting element with the head, an operating lever, resilient means carried by the head, and means connecting the

operating lever with the plunger and resilient means, said last-mentioned means being operable for shifting the shoe supporting element down-

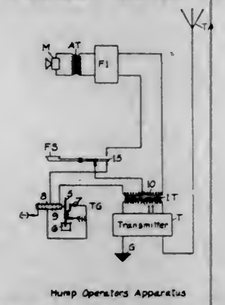


wardly and against the tension of the resilient means for clamping the sole of a shoe on the shoe supporting element between said element and the anvil.

2,280,419
COMPOUNDED OIL
Chester E. Wilson, San Pedro, Calif.
No Drawing. Application July 16, 1940, Serial No. 345,844
24 Claims. (Cl. 252—33)

1. Mineral lubricating oil containing a small proportion of oil-soluble petroleum sulfonate and a small proportion of the salt of a weak non-carboxylic organic acidic material having an ionization constant not exceeding about 5×10^{-6}.

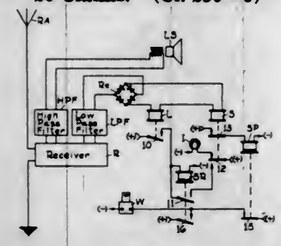
2,280,420
RADIO TELEPHONE SYSTEM
Vere C. Chappell, Greece, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application August 21, 1940, Serial No. 353,523
8 Claims. (Cl. 250—6)



Hump Operators Apparatus

1. In a radio telephone system for transmitting from a central station to a movable vehicle voice messages concerning how the vehicle should be manipulated, a radio transmitter, a tone generator and a microphone at the central station, switching means normally connecting said tone generator to said transmitter and operable by an operator at the central station to operatively connect said microphone instead of said tone generator to the transmitter and thereby enable the operator to send voice messages to the vehicle; and a receiving station on the vehicle including a radio receiver, a loud speaker, a visual signal device and relay means operatively connected to said receiver, said relay means being responsive to the tone frequency transmitted to said receiver and acting to render said signal device active only while said tone frequency is being received, whereby a person on the vehicle may detect from the failure to receive either the tone frequency as indicated by said signal device or a voice message from the loud speaker that the system may be out of order.

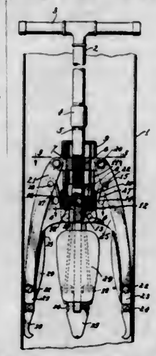
2,280,421
RADIO TELEPHONE SYSTEM
Vere C. Chappell, Greece, and Oscar H. Dicke, Rochester, N. Y., assignors to General Railway Signal Company, Rochester, N. Y.
Application January 11, 1941, Serial No. 374,106
20 Claims. (Cl. 250—6)



Locomotive Apparatus

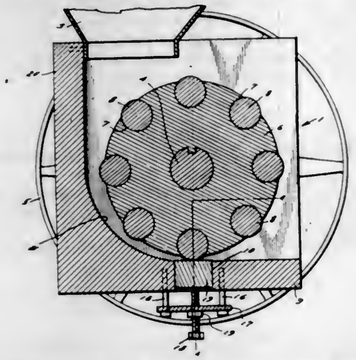
1. In a radio telephone, the combination with a transmitting station including a tone generator for generating a tone current, a microphone for generating voice currents and a double throw switch for transmitting either the voice current or tone current; and a receiving station including a receiver, an audible signal, a loud speaker, and a filter for passing only said tone current; relay means controlled by said receiver to silence said audible signal when tone current is received and for allowing the sounding of said audible signal when tone current is interrupted due to a fault; and a filter for allowing said voice currents but not said tone currents to flow to said loud speaker.

2,280,422
FISHING TOOL
Aladar Harcos, Los Angeles, Calif.
Application December 11, 1940, Serial No. 369,539
11 Claims. (Cl. 294—115)



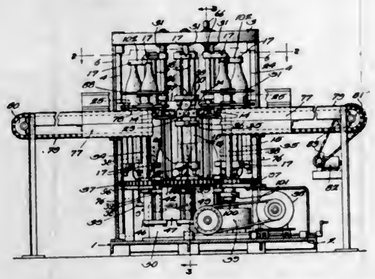
1. A fishing tool comprising: rotatable means, a block threadedly engaging said rotatable means and adapted for longitudinal movement thereon, a sleeve assembly mounted on the rotatable means and slidably engaging the block to restrain the said block against rotation, claw means consisting of a plurality of claws for gripping objects, a plurality of links and arms coupling said claws to the block and sleeve assembly, said claws being adapted to open and close upon the longitudinal movement of said block.

2,280,423
CINDER GRINDER
Lauran Lafreniere, Essex Junction, Vt., assignor of one-half to Eugene L. Bouchard, Essex Junction, Vt.
Application March 12, 1941, Serial No. 382,994
1 Claim. (Cl. 83—14)



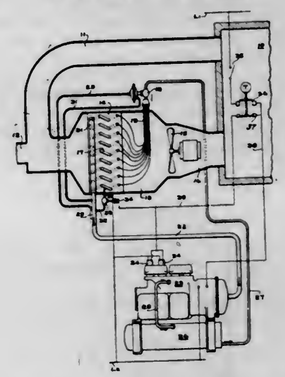
In a grinding machine of the class described including a housing having a longitudinally extending slot in its bottom, bolts depending from the housing adjacent the slot, a plate mounted on said bolts and spaced from the housing, a block mounted for sliding adjustment in the slot, screws threadedly mounted in the plate and engaged against the block for adjusting said block vertically, and springs mounted in the housing and engaged with the block for yieldingly resisting adjustment of said block upwardly.

2,280,424
CONTAINER CLEANING MACHINE
Arthur I. Risser, Chicago, Ill., assignor to U. S. Bottlers Machinery Company, Chicago, Ill., a corporation of Illinois
Application July 8, 1940, Serial No. 344,326
4 Claims. (Cl. 15—20)



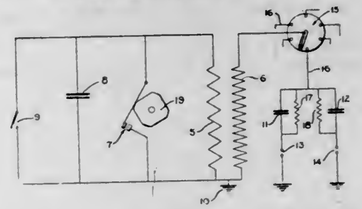
1. In combination, a support having means to position a container thereon for cleaning, a fluid cleaner nozzle mounted on the support for movement into and out of cleaning position within a container positioned on the support, a cleaner-fluid-conducting member mounted on the support and having an outlet into and out of cooperative connection with which the nozzle is brought when moved into and out of a positioned container, a valve arranged within the outlet and normally closing same, and a valve-operating member for the valve and arranged whereby the nozzle will be brought into and out of cooperative engagement therewith to operate the valve during said movement of the nozzle.

2,280,425
AIR CONDITIONING APPARATUS
Charles M. Sanders, Jr., Oak Park, Ill., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 2, 1938, Serial No. 211,310
13 Claims. (Cl. 62—6)



1. In refrigerating apparatus, the combination of an evaporator having a refrigerant passage, a valve for controlling admission of liquid refrigerant to said passage, a suction conduit connected to the outlet end of said passage for receiving vaporized refrigerant therefrom, means for controlling said valve in accordance with the superheat of the vaporized refrigerant discharged from said refrigerant passage to said conduit and including temperature responsive means subjected to the temperature of said vaporized refrigerant, and means for selectively by-passing refrigerant from said passage at an intermediate point thereof to said suction conduit and subjecting said temperature responsive means to the temperature of said by-passed refrigerant whereby said valve regulates the admission of liquid refrigerant to said passages so that a smaller portion of the passage contains liquid refrigerant.

2,280,426
IGNITION SYSTEM
Lloyd H. Scott, Garden City, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application September 7, 1940, Serial No. 355,753
5 Claims. (Cl. 123—148)

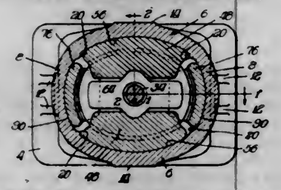


1. In a dual ignition system for internal combustion engines or the like, a single source of high tension current, a pair of spark gaps, and means for applying substantially the full voltage of said source to each of said gaps while dividing the energy from said source between said gaps, said last-named means including a condenser in series with each of said gaps and resistor means shunting said condensers.

2,280,427
PHOSPHATIDIC COMPOSITION
Benjamin H. Thurman, Bronxville, N. Y., assignor to Refining, Inc., Reno, Nev., a corporation of Nevada
Application January 9, 1940, Serial No. 313,131
9 Claims. (Cl. 99—123)

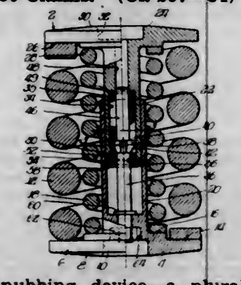
1. The process of preparing a non-foaming glyceride fat having improved keeping qualities, which comprises, incorporating in a refined edible fat a modified phosphatidic material prepared by heating a phosphatidic material in the presence of a glyceride fat to a temperature and for a time sufficient to destroy the foaming characteristics but insufficient to destroy the protective action against rancidity of said phosphatidic material and filtering in the presence of an adsorbent.

2,280,428
DRAFT GEAR
Robert B. Cottrell, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application October 14, 1940, Serial No. 361,052
18 Claims. (Cl. 213—32)



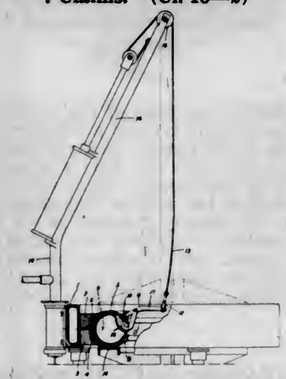
18. In a draft gear, a housing having an oval end with arcuate internal friction faces aligned with the long and short axes of said oval end, a compression spring, a spring cap seated on said spring, a follower wedge, inner and outer sets of shoes arranged in series between said follower wedge and said spring cap and seated against said faces, a wedge block interposed between said sets of shoes with each shoe of each set presenting spaced areas diagonally engaging said block, inwardly extending flanges defining the friction faces on said housing for cooperation with said shoes to prevent rotation thereof, said inner set of shoes having diagonal engagement with said spring cap, and each shoe of the outer set presenting spaced areas for engagement with said follower wedge.

2,280,429
SNUBBER
Edward G. Glick, Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application June 26, 1940, Serial No. 342,459
30 Claims. (Cl. 267—34)



1. In a snubbing device, a plurality of coil springs, end followers affording seats for said springs, casings on each of said followers extending within said springs for sliding engagement with each other, a sealed chamber in one of said casings, a piston having a head with spaced passageways therein and operable within said chamber, a medium acting as a fluid contained in said chamber and comprising a plurality of small spherical elements, said piston head being formed to afford maximum resistance to said fluid for sudden increases of load and to afford easy recovery when said load is released.

2,280,430
METHOD OF AND MEANS FOR REMOVING A TIRE FROM A MOLD
Edwin A. Glynn, Lodi, Calif., assignor to Super Mold Corporation of California, a California corporation
Application February 24, 1939, Serial No. 258,234
7 Claims. (Cl. 18—2)



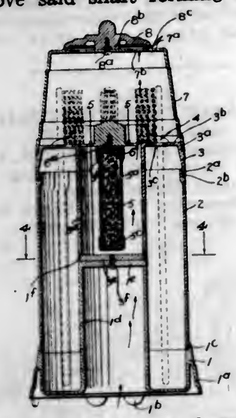
1. The method of removing a tire from the surrounding matrix of a vulcanizing mold after deflating the air bag and removing the mounting rim of the tire, comprising exerting a pull on the tire at a point and adjacent one bead thereof in a direction both radially inward and axially of the tire away from the opposite bead, and continuing such pull until the tire is clear of the matrix throughout its extent.

4. Means to remove a tire from the surrounding matrix of a horizontal vulcanizing mold comprising a hook adapted to be inserted into the tire between the beads thereof and to receive the upper bead at one point therein, a shank on which and intermediate its ends the hook is pivoted, said shank being adapted to approach close to the point of the hook and pass inside the hook opening so as to overlie said upper bead and a crosshead on the lower end of the shank to bear against the tire directly above the hook, the opposite end of the shank being adapted for connection with a pull cable.

2,280,431
TOOTHBRUSH HOLDER
Fred E. Hart, Los Angeles, Calif.
Application May 18, 1938, Serial No. 208,609
6 Claims. (Cl. 206—15.1)

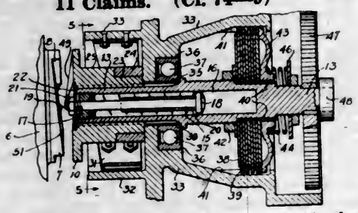
4. In a toothbrush holder of the class described, the combination of a casing provided with a central air conducting shaft extending the full length of said casing and open to atmosphere at its lower end, a toothbrush handle receiving chamber in said casing intermediate the wall of said shaft and the wall of said casing outwardly

of said shaft and a cap provided with vents in its upper side positioned on the upper end of said casing above said shaft forming a toothbrush



bristle portion chamber, a chemical container supported in said shaft and communicating openings between said chemical container and the toothbrush bristle portion chamber.

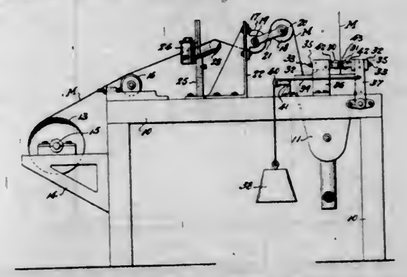
2,280,432
STARTER MECHANISM
Vera C. Hodges, Los Angeles, Calif., assignor to H. P. Lester, Thomas B. Smallwood, and Vera C. Hodges, doing business as Champion Aviation Products Company, Los Angeles, Calif., a co-partnership
Application July 17, 1941, Serial No. 402,740
11 Claims. (Cl. 74—9)



1. In starter mechanism, a shaft having straight splines longitudinally thereof, a starter head meshing with the splines on the shaft and having a longitudinal sliding movement with respect to the shaft, the starter head having an inclined portion, an element normally substantially stationary during forward movement of the starter head, the element having inclined means arranged to engage the inclined portion of the starter head and to feed the starter head forward, upon rotation of the starter head by means of the shaft.

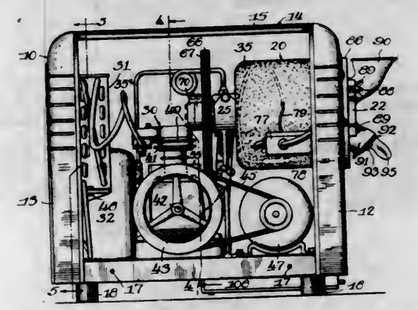
2,280,433
ART OF COATING SHEET MATERIAL
Edward C. Homan, East Orange, N. J., assignor to Irvington Varnish & Insulator Co., Irvington, N. J., a corporation of New Jersey
Application October 11, 1940, Serial No. 360,712
4 Claims. (Cl. 91—32)

1. In apparatus for the purposes described, means to apply preliminary facing layers of coating substance to opposite faces of material operated upon, a pair of laterally opposed coating bars of circular cross-section spaced apart to provide an intermediate orifice of predetermined width through which the thus charged material is passed whereby to determine the thickness of finished coats applied thereto, rigid carrier members for each coating bar, each coating bar being comparatively flexible, means to adjustably secure each flexible coating bar to



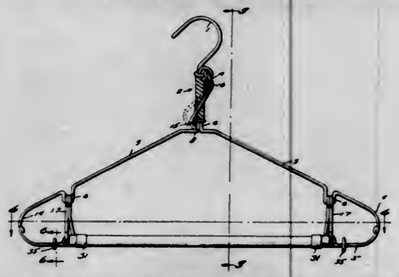
its rigid carrier member including means to flexionally adjust the same for parallel alignment with the cooperating opposed coating bar, and cooperative means connected with said rigid carrier members for predetermining the operative spaced relation of said coating bars.

2,280,434
ICE CREAM FREEZER
Matthew W. Huber, Chicago, Ill., assignor to Tuthill Pump Company, Chicago, Ill., a corporation of Illinois
Application May 3, 1940, Serial No. 333,118
5 Claims. (Cl. 62—114)



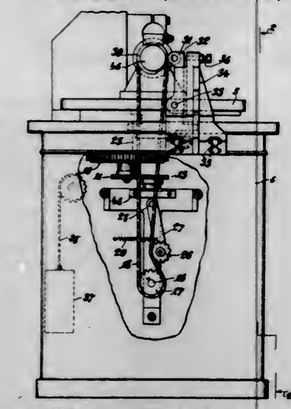
1. In an ice cream freezer, an enclosed casing including a base and front and rear walls, a freezer chamber supported on the front wall and having a refrigerating coil surrounding a portion of said freezer chamber within said casing, detachable closure means affording access to said freezer chamber through said front wall, refrigerating mechanism for said refrigerating coil disposed within said casing, including a compressor and a condenser, air inlet means at the rear end of said casing including a duct having a forwardly-opening discharge passage, said condenser extending over said inlet discharge passage so that the incoming air will be directed forwardly in said casing toward the front wall over a widely extended area, and a blower mounted on said base within said casing having its suction inlet disposed in generally offset relation with the line of discharge from said air inlet, whereby the incoming air will be forced in diffused currents throughout substantially the entire interior of the casing while passing from the inlet discharge passage to the blower.

2,280,435
GARMENT HANGER
Conrad P. Knudson, Sioux Falls, S. Dak.
Application March 6, 1941, Serial No. 382,060
4 Claims. (Cl. 223—91)



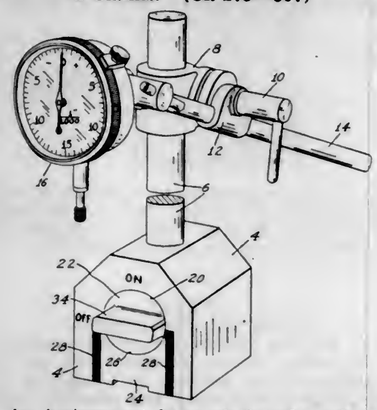
1. A garment hanger comprising a skeleton frame including downwardly and outwardly inclined upper stretches, outwardly bowed end stretches and a lower straight stretch, a clamping yoke including a clamping rod and mounted on said upper stretches for vertical swinging movement in opposite directions to move said rod into and from opposed variably spaced clamping relation to said straight stretch, and coacting devices on said frame and rod, respectively, for yieldingly locking said yoke to said frame and variably spacing said rod from said lower stretch, said devices comprising resilient end extensions on said rod adapted in the clamping relation of said rod to extend alongside said lower stretch and the ends of said frame, and a pair of locking rings slidable on said lower stretch and ends and along said extensions.

2,280,436
MILLING MACHINE
Frederick Koch, Sparta, N. J., assignor to Associated Patentees, Inc., Ampere, N. J., a corporation of New Jersey
Original application September 22, 1937, Serial No. 165,033, now Patent No. 2,202,210, dated May 28, 1940. Divided and this application December 21, 1939, Serial No. 310,324
13 Claims. (Cl. 90—13.9)



1. In a milling machine of the character disclosed, a base, a feed carriage operating on said base, a work holding chuck journalled on said feed carriage, flexible drive connections extending up from said base to said work holding chuck for shifting the latter independently of the feed movements of said carriage and cam means on said carriage for effecting in and out feed movements of said holding chuck longitudinally of the axis of the same, said cam means being actuated from said same flexible drive connections.

2,280,437
RELEASABLE PERMANENT MAGNET HOLDING DEVICE
George N. Levesque, Providence, R. I., assignor to Brown and Sharpe Manufacturing Company, a corporation of Rhode Island
Application November 2, 1939, Serial No. 302,569
2 Claims. (Cl. 175—367)

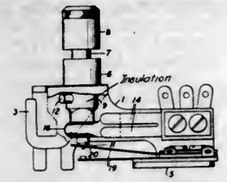


2. An instrument base of the class described comprising a rotatable cylindrical magnet having the magnetic poles disposed transversely of the longitudinal cylindrical axis and on diametrically opposite sides thereof, and a magnetic holding member in which the magnet is supported for rotational movement comprising a U-shaped magnetic conductor forming the outer shell of the instrument supporting base and providing in the base of the U-shaped portion thereof a semi-circular bearing contact with the magnet, a second magnetic conductor located between the arms of the U, and providing a second semi-circular bearing contact member for the magnet, and thin sheets of non-magnetic material separating the magnetic conductors, said magnetic holding member being shaped to provide a plane magnetic holding surface comprised by said conductors and separating non-magnetic material extending substantially parallel to the magnetic rotational axis, a second magnetic holding surface comprised by said conductors, separating non-magnetic material, and the magnet extending in a plane substantially normal to the magnet rotational axis, and means disposed at the opposite end of the magnet from said second holding surface for rotating the magnet.

2,280,438
CIRCUIT CONTROLLING DEVICE
Emil C. Matthews, Elizabeth, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 24, 1939, Serial No. 258,132
10 Claims. (Cl. 200—1)

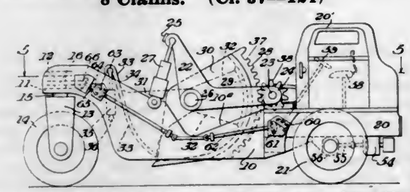
1. In a contacting device, a bracket, a plunger rotatably and longitudinally slidably mounted on said bracket, a group of contact springs on said bracket responsive to the rotary movement of said plunger, said contact springs cooperating

with said plunger to hold the plunger in its rotated position, another group of contact springs mounted on said bracket in position to be actuated by the sliding motion of said plunger,



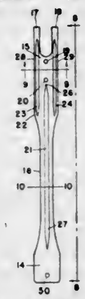
said plunger being so formed that said second group of contact springs may be operated regardless of whether or not the plunger is held in the rotated position.

2,280,439
EARTH MOVING VEHICLE
Leland O. McLean, Marion, Ohio
Application June 25, 1940, Serial No. 342,243
8 Claims. (Cl. 37—124)



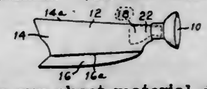
1. In an excavator vehicle, the combination of a chassis, a scoop mounted on the chassis to swing on a horizontal axis, means for raising and lowering said axis relative to the chassis, a pair of arms pivotally mounted intermediate of their ends coaxially with the scoop, an ejector plate mounted on one end of the arms and arranged to travel over the floor of the scoop to assist in discharging the contents of the latter, a gate mounted on the other end of said arms and arranged to open and close the front of the scoop, means for swinging the scoop on its axis, and means for swinging the arms independently of the movement of the scoop.

2,280,440
SHOE SHANK
Frank A. Melchionna, Cincinnati, Ohio
Application April 21, 1941, Serial No. 389,508
10 Claims. (Cl. 36—76)



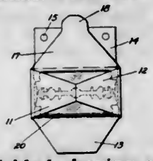
1. As a new article of manufacture, a shank piece for the reinforcing of footwear, which comprises a metallic strip having a forward end, a rear end, and an intermediate arched portion, said rear end including a plurality of edge beads formed sufficiently close to the side edges to turn the edges out of and beyond the plane of the rear end of the shank.

2,280,441
DART
Arthur B. Mull, Chicago, Ill., assignor of one-half to Spotswood Specialty Company, Inc., Lexington, Ky., a corporation of Kentucky
Original application July 23, 1941, Serial No. 403,701. Divided and this application November 4, 1941, Serial No. 417,819
7 Claims. (Cl. 273—106.5)



1. A suction cup sheet material dart assembly for use in a catapult provided with a longitudinally extending slot having a cross sectional area simulating an inverted T, said dart including a rubber suction cup forming the head of the dart assembly, said rubber suction cup having a retaining slot, and a sheet material tail portion provided with a main body portion having the forward ends folded and attached in the slot in the suction cup, and outwardly extending coplanar wing portions integral with the main body portion to guide the dart assembly in flight, said outwardly extending wing portions being located in a plane positioned to one side of the suction cup so as to permit the dart to be loaded in the T slot of the catapult.

2,280,442
PROTECTED BLADE
Joseph Muros, Cambridge, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
Application June 2, 1939, Serial No. 277,046
6 Claims. (Cl. 206—46)



1. A protected blade having an envelope with oppositely arranged flaps folded thereover, a wrapper of sheet material attached to the blade and folded with a tapered flap interposed between the superposed envelope flaps and extended beyond them, the envelope flaps being sealed to each other outside the boundaries of the interposed tapered wrapper flap.

2,280,443
DISPENSING DEVICE
John Frank Murray, Longmeadow, and Ulrich Suthergreen Fisher, Holyoke, Mass.
Application June 26, 1941, Serial No. 399,802
2 Claims. (Cl. 206—42)
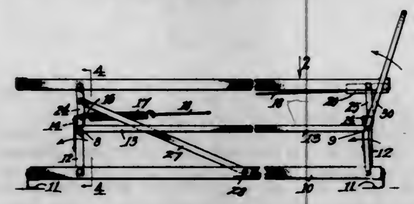
1. A dispensing device of the class described comprising in combination, a container having a longitudinal supply bore for a supply of objects provided with a closed upper end and a threaded socket at the lower end of the bore, a body part having its upper end portion threaded into said socket and a reduced neck portion therebelow, said body being provided with a bore in alignment with said supply bore and an outlet bore disposed in offset relation with respect to the

first-named bore and a longitudinal groove in its face, a spring wire in said groove, a collar member around said neck portion and engaging the upper end portion of said spring wire, and a gate member slidable transversely between the outlet bore and the bore of the body in alignment with



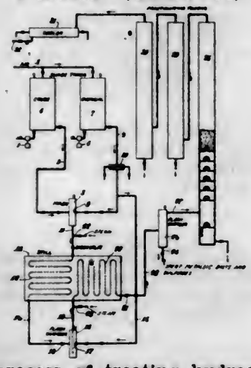
that of the container and below said collar member and having an opening registerable with one of said bores according to the position of said gate member for transferring an object from one of said bores to the other, the lower end portion of said spring wire engaging said gate member and urging the same in one direction.

2,280,444
ELEVATING DEVICE FOR COTS AND THE LIKE
Herbert W. Neunhers, Gardner, Mass.
Application December 17, 1938, Serial No. 246,399
6 Claims. (Cl. 5—110)



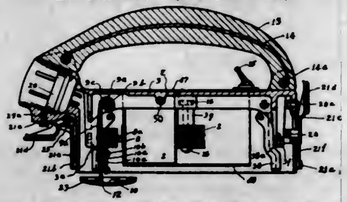
1. In a folding cot, or the like, the combination with a bottom frame supporting the cot and a top frame carrying springs, of two pairs of links pivoted to the bottom frame and extending upwardly about half the distance to the top frame when the cot is expanded, two pairs of links pivoted to the top frame, extending downwardly, and pivoted to the first named two pairs of links, two longitudinal links pivoted to said four pairs of links at the points at which they are pivoted together, yielding means connected near said last named pivot points at the foot of the cot and to the spring frame at the head of the cot for resisting the folding up of the cot and cushioning the descent of the top frame, front and rear links each pivoted to the bottom frame intermediate the head and foot thereof and to an intermediate point of one of the links of the second mentioned pair which is near the foot of the cot.

2,280,445
PROCESS OF TREATING HYDROCARBON OILS
Albert Ramsey Nevitt, New Brunswick, N. J., assignor to Bradford Penn Refining Corporation, Clarendon, Pa., a corporation of Pennsylvania
Application June 5, 1939, Serial No. 277,417
4 Claims. (Cl. 196—54)



3. The process of treating hydrocarbon oils, which comprises subjecting a paraffine base petroleum hydrocarbon and a chemically reactive aqueous solution of metallic chlorides and soluble metallic sulphates to elevated temperature at superatmospheric pressure in an enclosure for a period of time sufficient for partial decomposition of the hydrocarbon, flashing the mixture under controlled pressure conditions, separating out the spent chemical solution and fractionating and cooling the treated hydrocarbon.

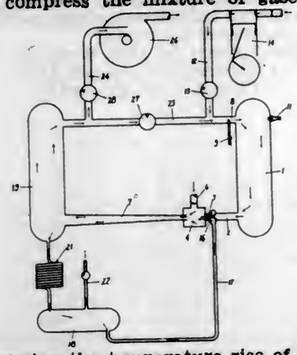
2,280,446
VIBRATOR SANDING AND POLISHING MACHINE
Alexander Nyman, Dayton, Ohio
Application July 16, 1937, Serial No. 153,930
12 Claims. (Cl. 51—170)



5. A device of the character described comprising electromagnetic means adapted to produce periodic vibrating forces, an arm supported adjacent said electromagnetic means, an armature carried by said arm adapted to be acted upon by said periodic vibrating forces, means for tensioning said arm to form a vibrating system, said tensioning means including resilient means fastened to said arm and extending at right angles to the direction of vibration of said arm and means for varying the longitudinal stress in said resilient means to tune said vibrating system to a condition of substantial mechanical resonance with said periodic vibrating forces.

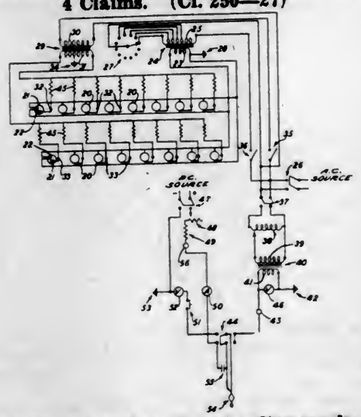
2,280,447
JET COMPRESSOR FOR POWER PLANTS
George W. Pearce, Jr., Pittsburgh, Pa.
Application October 13, 1939, Serial No. 299,300
6 Claims. (Cl. 230—102)

1. In a power plant, the combination comprising a heating chamber member for heating gases therein, an outlet jet connected to said chamber for expanding the heated gases to increase their kinetic energy, a mixing chamber connected to the jet for receiving the expanded gases and provided with an opening through which a gas is drawn by said gases and mixed therewith, a gradually expanding delivery tube connected to the mixing chamber for receiving all of the gases therefrom and in which said kinetic energy is used to compress the mixture of gases, means



for restricting the temperature rise of said mixture during said compression whereby said kinetic energy is sufficient to compress the mixture to a pressure greater than that of the gases in the heating chamber, and a conduit member for conducting enough of said compressed mixture back to the heating chamber member to replace the gases escaping through the jet, one of said members being provided with an outlet for the rest of said compressed mixture so that power can be furnished thereby.

2,280,448
TREATING AND TESTING APPARATUS
John G. Pfeiffer, Dumont, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 1, 1939, Serial No. 307,123
4 Claims. (Cl. 250—27)



1. In an apparatus for simultaneously electrically treating and individually electrically testing a plurality of electron tubes each having a filament and a plate, means to supply electrical power independently to the filament of each one of a plurality of tubes simultaneously to heat the same, and a plurality of individual circuits each having contact means to be detachably connected to the plate of a tube to supply electrical power independently across the filament and plate of each one of the plurality of tubes simultaneously to create a plate current therein, in combination with means including an electrical measuring instrument and having contact means to be detachably connected in place of any one of the first named contact means to any one only of the plates without disturbing the others to supply electrical power across the filament and the plate of the tube while an electrical characteristic of the plate current thereof is being measured.

2,280,449
ELECTRON MULTIPLIER
Herbert Pietzsch, Berlin, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application July 29, 1939, Serial No. 287,187
In Germany August 3, 1938
1 Claim. (Cl. 250—174)



A multi-element electron discharge tube including a vessel having a throat portion, an electrode system in said vessel and lead-in conductors to the various electrodes of said electrode system, the base end of said throat portion being formed with a series of successively smaller concentric integral cup-shaped portions, presenting generally radially extending annular surfaces, said lead-in conductors passing through said radially extending annular surfaces.

2,280,450
LUBRICANT
Raymond Reuter, Medford Lakes, N. J., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application February 20, 1940, Serial No. 319,840
7 Claims. (Cl. 252—53)

1. A hydrocarbon oil composition comprising a relatively large proportion of a refined hydrocarbon oil normally tending to deteriorate by oxidation under normal conditions of use and in intimate admixture therewith a relatively small amount sufficient to inhibit such deterioration, of an oil-soluble, water-insoluble reaction product of tricresyl phosphite and octyl phenoxyethanol.

2,280,451
FERTILIZER AND PROCESS FOR MAKING THE SAME
Griffith H. Riddle, Brookline, Mass., assignor to Research Foundation, Inc., Wilmington, Del., a corporation of Delaware
No Drawing. Application November 25, 1939, Serial No. 306,195
14 Claims. (Cl. 71—2)

1. A fertilizer material comprising at least three substantially water-insoluble inorganic forms of the 64 reciprocally assimilable minor elements, each form being a source of a designated quantity of at least one of the minor ele-

ments, and having a specific surface within the range between

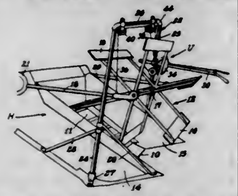
$$\frac{1{,}000}{D_s} \text{ cm.}^2\text{/gm. and } \frac{20{,}000}{D_s} \text{ cm.}^2\text{/gm.}$$

each form being present in the mixture in amount and having a specific surface effective to be gradually available to produce plant stimulation without causing objectionable toxicity, the ratio of the specific surface of each said form to that of any other form being substantially inversely proportional to the ratio of their rates of solubility.

2,280,452
PREPARATION OF FERRO-CHROMIUM IN BLAST FURNACES
Percy H. Royster, Toledo, Ohio
No Drawing. Application April 10, 1941, Serial No. 387,972
6 Claims. (Cl. 75—127)

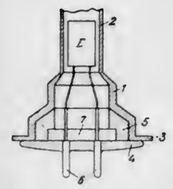
1. In the process of producing ferro-chromium involving the operations of charging into a blast furnace solid carbonaceous fuel and a burden consisting essentially of a chrome ore having a substantially high chromium content and blowing the charge with atmospheric air, the improvement which consists in diluting the concentration of the chrome ore in the charge by the addition to the latter of a slag-forming mineral diluent having a fusing point materially lower than that of said chrome ore and consisting predominantly of oxides of silicon, aluminum, calcium and magnesium and low in reducible oxides such as the oxides of iron and manganese, the composition of the mineral diluent being so chosen, with respect to the composition of the gangue of the chrome ore, that when said mineral diluent is combined with the gangue the two produce a substantially neutral final slag, the amount of mineral diluent so added being at least as great as that of the chrome ore.

2,280,453
HARVESTER
Robert W. Rucker and Clement R. Rucker, near Dalton City, Ill.
Application December 17, 1940, Serial No. 370,439
7 Claims. (Cl. 56—23)



2. A harvester of the type adapted to be drawn by a tractor, comprising a header including a cutter; a reel adapted for rotation above said cutter in a spaced relation thereto; a pair of reel-carrying arms pivotally connected to said header and with which said reel is associated; a yoke-like frame including side frame members attached at their lower ends to said header and extending upwardly above said reel and a cross frame member connected to said side frame members above and in a spaced relation to said reel, said side frame members being disposed in close proximity to said reel-carrying arms and serving to hold said reel-carrying arms against lateral displacement; a lever pivotally connected to one of said side frame members and extending forwardly with relation to said header; and a pulley and cable system cooperatively connecting said lever to said reel-carrying arms and operating in response to movement of said lever to effect corresponding movement of said reel-carrying arms whereby vertical adjustment of said reel with relation to said cutter is effected.

2,280,454
ELECTRIC DISCHARGE VESSEL
Rudolf Scharfnagel, Stuttgart, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application January 26, 1940, Serial No. 315,719
In Germany February 9, 1939
5 Claims. (Cl. 250—27.5)



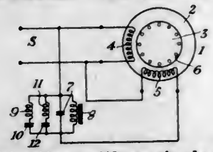
1. An envelope for an electric discharge vessel provided with an opening, said envelope comprising a part having a relatively thin wall substantially free from thermal inertia and a section having a thicker wall disposed between said part and said opening, a metal ring contacting the wall of said vessel disposed within said tube at the opening therein, said ring and said section cooperating to minimize the effect of sudden thermal changes in the thin walled part of the tube on the edge of the opening.

2,280,455
ROAD JOINT
Harry P. Seuberling, Cincinnati, Ohio
Application May 10, 1940, Serial No. 334,438
11 Claims. (Cl. 94—18)



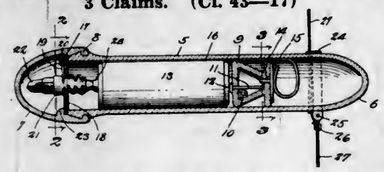
1. A roadway structure comprising slabs disposed in end to end relationship and having their ends extending diagonally across the roadway in slidable straight-line engagement with each other, and means connecting said slabs together and holding them at all times in end to end abutting engagement with each other, said structure including space means adjacent to said connecting means to permit portions of said connecting means to move laterally relative to the slabs and thereby permit the ends of the slabs to move laterally relative to each other.

2,280,456
CONVERSION OF SINGLE-PHASE ALTERNATING ELECTRIC CURRENTS TO POLYPHASE CURRENTS
Sydney Arthur Stevens and Alec Hervey Bennett Walker, London, England, assignors, by mesne assignments, to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application October 9, 1940, Serial No. 360,398
In Great Britain October 16, 1939
3 Claims. (Cl. 172—246)



1. In combination with a single phase source of alternating current, a two phase load having one phase energized from said source, a condenser for split-phasing the current in the other phase of said load, said other phase being energized from said source through said condenser in series, a saturable reactor connected across said condenser and designed to become magnetically saturated at a predetermined value of voltage across its terminals as determined by the current in said other phase, and a resonant circuit connected across said condenser and reactor combination, said resonant circuit being tuned to a frequency which is a harmonic of the frequency of said source for providing a low impedance path for current of said harmonic frequency due to saturation of said reactor, for improving the wave form of the current supplied to said other phase.

2,280,457
ILLUMINATED FISHING BOB
Harry M. Sutcliffe, National City, Calif.
Application October 8, 1940, Serial No. 360,325
3 Claims. (Cl. 43—17)

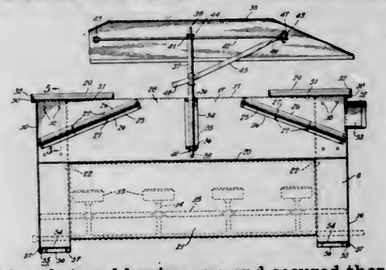


1. An illuminating fishing bob comprising a tubular body portion, an electric lamp mounted in one end of the body portion, a battery within the body portion and in circuit with the lamp, a mercury switch within the body portion and embodying a casing in the form of a hollow cone-shaped member, contacts in the contracted end of the cone-shaped member, mercury within the hollow cone-shaped member and adapted to move into engagement with the contacts completing the circuit and lighting the lamp when the body portion tilts a predetermined degree, and means for connecting a fishing line to said body portion.

2,280,458
HEATING DEVICE FOR TOBACCO CURING BARNS
John A. Tharrington, Rocky Mount, N. C.
Application March 31, 1939, Serial No. 265,293
4 Claims. (Cl. 263—19)

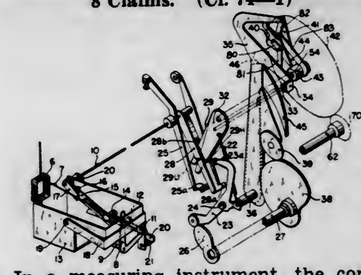
1. In a heater including side and end walls

forming an enclosure, a hood for said enclosure, means for supporting said hood in spaced relation above said enclosure, said means including a substantially square-shaped bracket secured between said side walls, a shaft disposed through



said bracket and having one end secured thereto, a transverse brace attached to said hood, the upper end of said shaft connected to said transverse brace, and means extending from said brace having engagement with said shaft for adjusting said hood.

2,280,459
MEASURING INSTRUMENT
Roy Ullman, Roslyn, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application February 1, 1940, Serial No. 316,743
8 Claims. (Cl. 74—1)

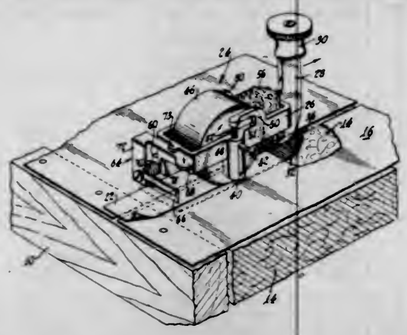


1. In a measuring instrument, the combination with a pointer moved to a position proportional to the value of a condition to be measured, a feeler moved from a predetermined position through a path terminated by engagement between said pointer and feeler, a cyclically operated relay mechanism including a drive lever moving through a predetermined path, a brake to stop movement of said lever at various points along said path, and means operated by said feeler including a secondary feeler positioned in accordance therewith and a part moving with said lever to engage the secondary feeler to apply said brake at a point proportional to the point at which the movement of the feeler is terminated.

2,280,460
APPARATUS FOR USE IN INSULATING STRUCTURES
Paul A. Voigt, Bellerose Manor, and Johan E. Johansen, Brooklyn, N. Y., assignors to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application April 3, 1940, Serial No. 327,676
11 Claims. (Cl. 216—29)

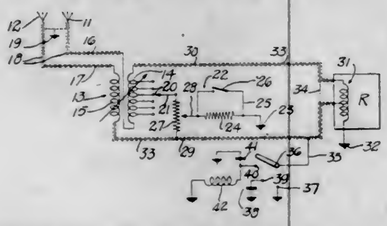
2. A device for applying an adhesive surfaced strip over a joint between adjacent edges of sheet-like members, comprising a frame, a re-

sistance flange carried by said frame and arranged to underlie the marginal edges of said sheet-like members at said joint, and means



carried by said frame for yieldably pressing an adhesive coated strip against said marginal edges supported by said resistance flange.

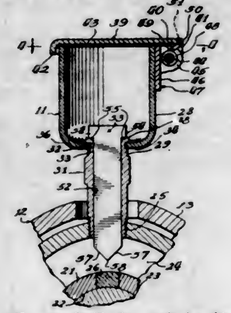
2,280,461
ELIMINATION OF ATMOSPHERIC RADIO DISTURBANCES
Samuel Whisk, Brooklyn, N. Y., assignor of one-half to Morris Abrams and Morris Zippert, both of Brooklyn, N. Y., jointly
Application October 6, 1941, Serial No. 413,743
8 Claims. (Cl. 250—20)



1. An apparatus for the elimination of radio frequency disturbances while maintaining desired signal energy, including an antenna system comprising an antenna and a counterpoise therefor, a relatively fixed coil connected to the antenna, a movable phase shifting coil connected to the counterpoise, said coils being responsive to each other solely for the selective reception of a desired frequency, a transmission line having connections for the respective coils, a variable tap means connected to the relatively fixed coil, and means for connecting the tap means to ground, including a resistance.

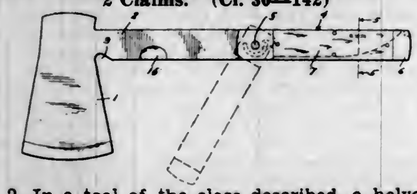
2,280,462
OIL CUP
Robert H. Whiteley, Oak Park, Ill., assignor to Randall Graphite Products Corporation, Chicago, Ill., a corporation of Delaware
Application January 11, 1940, Serial No. 313,333
11 Claims. (Cl. 184—65)

1. A baffle for oil cup conduits comprising a thin strip of material adapted to extend across an oil conduit to separate it into two parts, one of which passes air in one direction, and the other of which passes lubricant in the opposite direction, said baffle having at its lower end a point forming an unstable position for air bubbles in the conduit at that point, and said baffle having at its upper end a shoulder for engaging



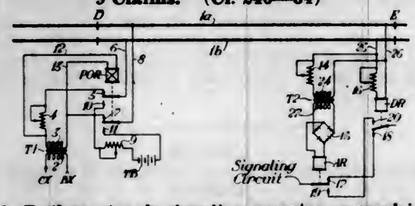
part of an oil conduit to retain it in predetermined position.

2,280,463
COMBINATION TOOL
Eugene D. Williamson, Afton, Wyo.
Application January 15, 1941, Serial No. 374,559
2 Claims. (Cl. 30—142)



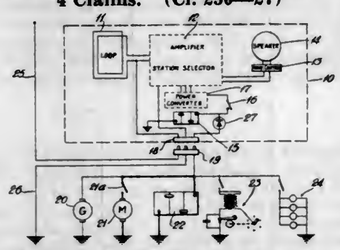
2. In a tool of the class described, a helve, a hatchet head at one end of said helve, a rigid knife extending from the other end of said helve, and a clasp-type hand grip member having outwardly bulged sides and adapted to straddle said helve and knife blade, respectively, said member being pivoted at one end to the helve at the juncture of the helve and knife blade and swingable on said pivot in opposite directions into straddling relation to said helve and blade, respectively, said member when swung into straddling relation to the helve forming a hand grip on said helve close to said head, and said member when swung into straddling relation to said knife blade forming an extension hand grip on said helve remote from said head and sheathing said knife blade.

2,280,464
RAILWAY TRACK CIRCUIT APPARATUS
Harold G. Witmer, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application April 26, 1941, Serial No. 390,438
9 Claims. (Cl. 246—34)



1. Railway track circuit apparatus comprising, a track section, a first circuit means including a source of alternating current and a first resistor for supplying across the rails at one end of the section a predetermined relatively high alternating voltage to provide a high shunting sensitivity for the track circuit because of breaking down of the rail film resistance by such voltage when the section is occupied, a second circuit means including a source of direct current and a second resistor for supplying across the rails at said one end of the section a direct voltage of a relatively high value which is effective to provide shunting sensitivity for the track circuit substantially equal to that provided by said predetermined alternating voltage, a power-off relay receiving power from said source of alternating current and operable when energized to close said first circuit means and when deenergized to close said second circuit means, track relay means connected to the rails at the other end of the section effectively energized by either said alternating or direct voltage when the section is unoccupied and deenergized when the section is occupied due to said high shunting sensitivity of the track circuit, and a signaling circuit controlled by said track relay means.

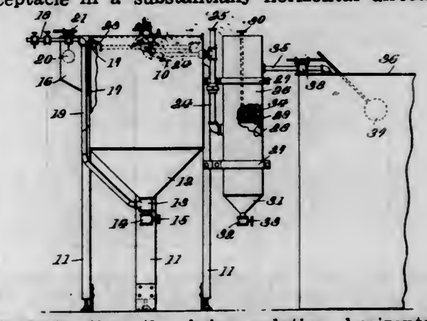
2,280,465
RADIO RECEIVER
Daniel J. Barrett, Jr., Mount Vernon, and Louis G. Pacent, New York, N. Y.; said Pacent assignor to said Barrett, Jr.
Application September 11, 1940, Serial No. 356,246
4 Claims. (Cl. 250—27)



1. In a motor driven vehicle having an engine, an electrical system including a vehicle storage battery, load circuits, and a generator driven by said engine for charging said battery, a removable self-contained radio receiving set including a set storage battery, means for electrically connecting said set in circuit with said generator to cause both the set battery and the vehicle battery to receive charging current from said generator when said engine is operating, and unilateral conducting means forming a part of said set and removable with it for permitting flow of charging current from said system to the set battery but opposing reverse flow.

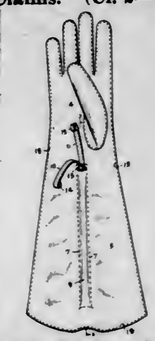
2,280,466
DISSOLVING APPARATUS
Arthur Friezland Black, Charlotte, N. C., assignor to Myles Salt Company, New Orleans, La., a corporation of Louisiana
Application June 30, 1938, Serial No. 216,811
2 Claims. (Cl. 23—272)

1. A salt dissolving apparatus for producing a highly saturated brine solution without substantial clogging of the apparatus, comprising a vat for containing the salt to be dissolved, a supply conduit for directing the solvent to the bottom of said vat whereby to effect upward movement of the solvent through the salt bed, a vertically disposed receptacle independent of said vat and having filtering means disposed intermediate the ends thereof and also intermediate the top and bottom of said vat, said receptacle providing a settling chamber below said filtering means and in advance thereof with respect to the direction of flow of brine solution therethrough, an overflow conduit means determining the level of solution in said vat and open to the atmosphere and extending downwardly from the upper portion of said vat and affording communication with said receptacle immediately below said filtering means and above the bottom of said vat, said conduit means communicating with the receptacle in a substantially horizontal direction



for directing the brine solution horizontally across the bottom of said filtering means for producing mild washing across the filtering means to prevent crystallization of the saturated brine solution thereon without disturbing material which may have settled to the bottom of the settling chamber, and a discharge conduit communicating with the receptacle above the filtering means for discharging the solution after it has passed upwardly from the settling chamber through the filtering means.

2,280,467
GLOVE
Marinette Blanc, New York, N. Y., assignor to Picardy Mills, Inc., Brooklyn, N. Y., a corporation of New York
Application February 20, 1941, Serial No. 379,788
10 Claims. (Cl. 2—162)

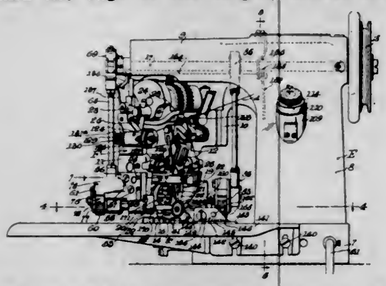


1. In an arm length glove, longitudinally adjustable means carried by said arm portion for shortening the arm portion of said glove and fastening the same in said shortened position.

2,280,468
BLIND STITCH SEWING MACHINE FOR BINDING CARPETS
Louis G. Bowman, St. Louis, Mo., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo., a corporation of Maine
Application April 3, 1940, Serial No. 327,714
59 Claims. (Cl. 112—178)

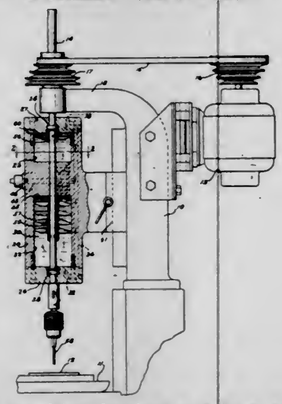
1. In a blind stitch sewing machine for bind-

ing carpets, the combination with a stationary horizontal plate having an opening, of a blind stitch forming mechanism operating above said plate and including a needle mounted for reciprocations across said opening and a rotary hook cooperating with said needle, means including a rotatable drag element disposed in front of the plate for drawing tight a binding around the edge of the carpet, means located



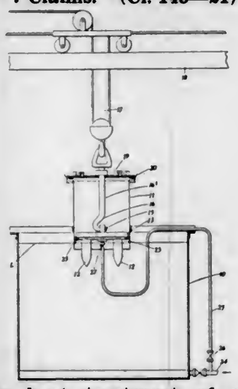
below the plate for projecting a ridge of carpet and binding upwardly through the opening of said plate with the base of the carpet and the edge of the binding in needle penetrating position, and means for intermittently feeding the carpet and binding past the stitch forming mechanism whereby the needle thread will be intermittently laid over the edge of the binding.

2,280,469
SPINDLE FEED
Rudolph S. Brescka, Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application June 8, 1939, Serial No. 278,036
8 Claims. (Cl. 77—32)



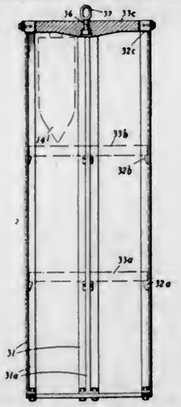
1. In a machine having a rotary spindle, a feed for the spindle comprising a housing apertured for the spindle and having two compartments therein, a fluid disposed in the housing, two impellers each having a set of blades disposed at angles to cut their way in opposite directions in the fluid disposed in the compartments respectively, and mounted for rotation with the spindle, and means to control the fluid to render the impellers ineffective to move the spindle, to render one of the impellers effective to move the spindle in one direction, to render the said effective impeller ineffective and render the other impeller effective to move the spindle in another direction under varying pressures.

2,280,470
TREATMENT OF METALS
Walter Bridges, Chelsea, London, England
Application July 10, 1940, Serial No. 344,811
In Great Britain July 12, 1939
7 Claims. (Cl. 148—21)



1. In the heat treatment of metal billets wherein the billets are heated and then at least partially immersed in oil, the method of preventing ignition of the oil by the heat of the billets which comprises surrounding the heated billets with an air-containing enclosure; impoverishing the air within said enclosure by combustion; and effecting the immersion of the billets in the oil in the presence of such impoverished air.

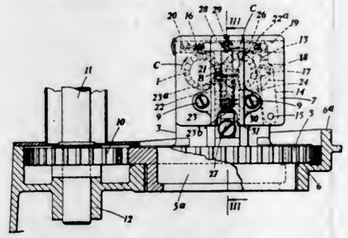
2,280,471
APPARATUS EMPLOYED IN THE HARDENING AND TEMPERING OF ARMOR-PIERCING PROJECTILES AND THE LIKE
Walter Bridges, Chelsea, London, and Arthur John Chambers, Ewell, England, assignors to The Projectile & Engineering Company, Limited, Battersea, London, England
Application February 11, 1941, Serial No. 378,478
In Great Britain December 30, 1939
3 Claims. (Cl. 211—13)



1. In furnace apparatus, means for receiving and supporting articles, comprising a cage-like structure having a plurality of spaced vertical perimetrically disposed guide bars providing an unobstructed space within them; a series of vertically spaced abutments on each of said bars disposed to provide a plurality of horizontal sets, a horizontal dimension of the abutments in each

set increasing progressively from the uppermost set to the lowermost; and an article carrier engageable with each horizontal set of abutments to span the space within the vertical guide bars and support the articles therein, each carrier having perimetric apertures to slidably engage portions of said vertical guide bars, and the position of the abutment engaging portions of each carrier varying, whereby each carrier is engageable only with a predetermined horizontal set of abutments to be supported thereby, and may freely slide along said guide bars during introduction into and removal from the structure through the top thereof, clearing all abutments above its own particular set.

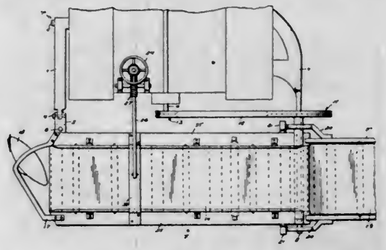
2,280,472
FABRIC DRAWING-OFF MECHANISM FOR KNITTING MACHINES
Thomas Charles Bromley and Arthur Shortland, Leicester, England
Application December 2, 1940, Serial No. 368,266
In Great Britain November 8, 1939
15 Claims. (Cl. 66—153)



1. Mechanism for drawing-off fabric as it is produced on a knitting machine, comprising, in combination, a pair of rollers between which fabric is gripped and at least one of which is yieldably mounted so that said rollers are normally pressed together but permitted to separate as and when required, said rollers being entirely separate in contra-distinction to being geared together, and each roller being provided at each end with ratchet teeth, a feed pawl which is formed and arranged for co-operation with the the ratchet teeth of both rollers at one end of the latter, another feed pawl which is similarly formed and arranged for co-operation with the ratchet teeth of both rollers at the opposite end thereof, and means for operating said feed pawls whereby the rollers are driven independently in opposite directions and continue to function normally even in the event of them being forced apart abnormally.

2,280,473
TERRACE BUILDING APPARATUS
Allie W. Brown, Elgin, Kans.
Application March 1, 1941, Serial No. 381,342
3 Claims. (Cl. 37—110)

1. In a vehicle, a conveyor frame passing across the rear thereof and extending from a point adjacent one side of the vehicle upwardly to a point adjacent the opposite side, a bracket connected to said opposite side of the vehicle and having an upstanding part and a horizontally arranged part extending rearwardly from the upper end of the upstanding part, a roll rotatably arranged on the horizontal part of the bracket and having trunnions at its ends on which the adjacent end of the frame is rotatably arranged, a roll carried by the opposite end of the frame, a belt passing over the rolls, an arm pivoted to said one side of the vehicle, a universal joint connecting the rear end of the arm to the low end of the frame, a bracket connected to the lower end of the frame, a plow carried



by the last-mentioned bracket for digging a furrow at a side of the vehicle and throwing the dirt upon the belt, and means for rotating the first-mentioned roll from a part of the vehicle.

2,280,474
LUBRICATING OIL
Gordon D. Byrkit, Waldo L. Steiner, and Bert H. Lincoln, Ponca City, Okla., assignors, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application July 18, 1938, Serial No. 219,818
14 Claims. (Cl. 252—35)

1. A lubricant comprising in combination a major proportion of an oil having lubricating characteristics and a minor proportion of a metal salt of an organic acid containing an ester group elsewhere in the molecule.

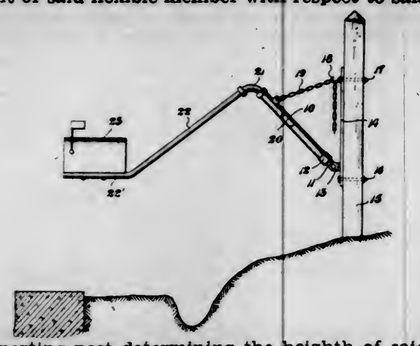
2,280,475
LUBRICATING OIL
Gordon D. Byrkit, Waldo L. Steiner, and Bert H. Lincoln, Ponca City, Okla., assignors, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application July 10, 1940, Serial No. 344,734
14 Claims. (Cl. 252—35)

1. A lubricant comprising in combination a major proportion of an oil having lubricating characteristics and a minor proportion of a metal salt of a hydroxy acid whose hydroxyl group is esterified.

2,280,476
SUPPORT FOR RURAL MAIL BOXES, ROAD MARKERS, AND THE LIKE
Harold N. Calvert, Carrollton, Mo.
Application May 9, 1941, Serial No. 392,805
3 Claims. (Cl. 248—145)

3. A support for rural mail boxes, road markers and the like comprising in combination with a main supporting post adapted to be set back off the roadway, a socket member hinged at its lower end to said post and projecting upwardly and outwardly therefrom, flexible means adjustably supporting the said socket member from said post, an arm carrying a mail box or a road marker at its outer end and at its inner extremity being provided with a socket portion having a swivel connection with said socket member permitting the arm to swing in an arc if struck and return by gravity to normal position, said arm extending outwardly and downwardly at an

angle with respect to the socket member, adjustment of said flexible member with respect to said



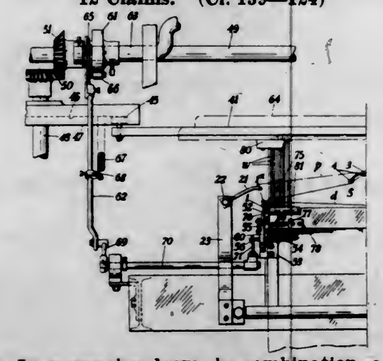
supporting post determining the heighth of said box or road sign.

2,280,477
ROTPROOFING OF TEXTILES, PAPER, AND OTHER FIBROUS MATERIALS
William James Carter, Avonmouth, England, assignor to National Processes Limited, London, England, a joint-stock company
No Drawing. Application October 20, 1937, Serial No. 170,051. In Great Britain November 5, 1936

4 Claims. (Cl. 106—16)

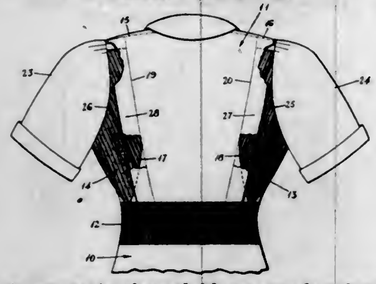
1. A composite liquor for sizing and rot-proofing materials, which liquor comprises a mixture of a sizing composition in the disperse phase and a rot-proofing material in the continuous phase and comprising a normally water-insoluble compound of naphthenic acid stably dispersed in an aqueous vehicle by means of an alkali.

2,280,478
LOOM WITH STATIONARY WEFT SUPPLIES
Charles Clutsom, St. Michaels, Ashby-de-la-Zouch, England
Application June 13, 1941, Serial No. 397,985
In Great Britain June 15, 1940
12 Claims. (Cl. 139—124)



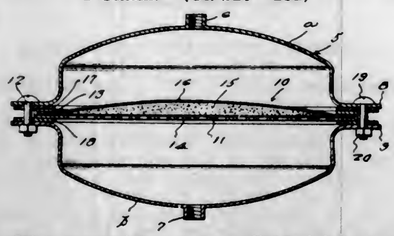
1. In a weaving loom, in combination, a slidable reciprocatory weft laying member adapted to operate to carry weft thread to and fro through a shed of warps, said member having a thread guiding portion capable of deflection in relation to the remainder thereof, a thread engaging element adapted to operate in conjunction with the weft laying member to ensure laying of the weft to and fro through the shed and to interconnect the wefts, means for effecting deflection of the said thread guiding portion from the path of reciprocation of the weft laying member after passage through the shed on a forward stroke, and guiding means with which the weft laying member is associated, the construction and arrangement of said last mentioned means being such that in addition to being moved transversely to the path of the warps to lay the weft in the shed the weft laying member, during each forward stroke, is also constrained to approach the co-operating weft engaging element in the warpwise direction to facilitate deflection of the thread guiding portion and thereby present the weft to the weft engaging element in a favourable position for engagement positively by the said element.

2,280,479
GARMENT
Abraham Cohen, Brooklyn, N. Y.
Application April 16, 1940, Serial No. 329,848
2 Claims. (Cl. 2—74)



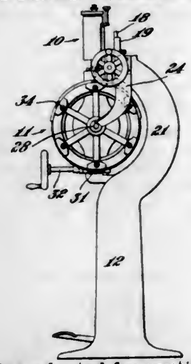
1. A woman's sleeved blouse made of woven fabric, an insert of knitted fabric at each side of said blouse, said inserts extending from the waist portion of the blouse upwards to the arm-pit portion beneath the sleeve and then further upwards along the rear sleeve seam to a point adjacent the shoulder seam and sideways at least partly across the shoulder blades of the wearer, said inserts tapering from the arm-pit portion and the shoulder portion to terminate in a substantially narrow portion adjacent the waist, and flaps formed integrally with the back portion of said blouse extending over said inserts along the entire length thereof.

2,280,480
OIL FILTER
Hamett H. Cox, Houston, Tex.
Application April 20, 1940, Serial No. 330,765
1 Claim. (Cl. 210—131)



A filter comprising a case divided into a pair of sections, said sections having an inlet and an outlet for pipe connections, the opposed portions of the sections being provided with outwardly disposed flanges, a filtering element comprising a perforated plate, the edge portion of the plate being disposed inwardly to define a channel, a pair of filtering sheets, one disposed immediately against the perforated plate, a mass of filtering material between the sheets, the edge portions of the sheets being disposed together and in clamped relation by the inturned edge portion of the plate, said inturned edge portion of the plate being interposed between the flanges of the case sections, gaskets between the flanges of the case sections and the inturned channeled edge portion of the perforated plate, and securing means for securing the flanges with the gaskets in clamping engagement with the inturned channeled edge portion of the perforated plate.

2,280,481
ROUTING MACHINE
Abe Lincoln Cushman, Concord, N. H.
Application November 6, 1940, Serial No. 364,478
4 Claims. (Cl. 90—26)



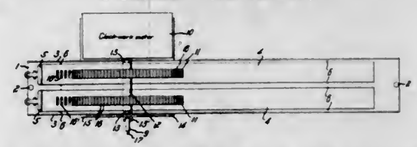
1. A machine adapted for routing curved plates comprising a router unit, a cylinder on which the plates to be operated upon are supported and a pedestal on which said unit and cylinder are mounted, brackets carried by said pedestal and between which said cylinder is supported, one of said brackets being pivotally mounted upon the pedestal whereby the bracket and cylinder may be swung relative to the pedestal to facilitate the receiving on and removing from the cylinder of the plates.

2,280,482
TRANSPARENT CLOSURE AND THE LIKE
Henry Dreyfus, London, England, assignor to Celanese Corporation of America, a corporation of Delaware
Application January 31, 1939, Serial No. 253,810
In Great Britain February 8, 1938
12 Claims. (Cl. 2—14)



1. An article having a window and such that when in use said window is liable to be exposed on one side to a moist warm atmosphere and on the other side to a colder atmosphere, said window having a transparent closure of sheet material selected from the class consisting of organic esters of cellulose and film-forming polymerized esters of unsaturated compounds, said sheet material being saponified so that at least its inner surface is capable of absorbing moisture while the sheet as a whole is resistant to the penetration of water and gases.

2,280,483
DRYING TIME RECORDER
Paul Norris Gardner, Bethesda, Md.
Application October 31, 1941, Serial No. 417,409
8 Claims. (Cl. 73—51)



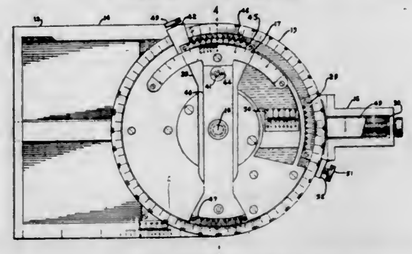
1. Apparatus for determining and recording the setting, hardening or drying time of a plastic composition such as a paint, a cementitious mix or the like, which comprises a movable elongated table for supporting a test layer, a rigid contacting member in the form of a freely rotatable wheel on the periphery of which are spaced protuberances, said wheel being journaled to be free to rotate and to move vertically and being adapted to rest peripherally on said table, and means for advancing the table beneath said wheel, and with the weight of said wheel resting thereon, at constant speed.

2,280,484
RECLAIMING OF RUBBER
Walter Gumlich, Leverkusen-Schlebusch, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application January 28, 1939, Serial No. 253,352. In Germany January 29, 1938

4 Claims. (Cl. 260—720)

1. The reclaiming of vulcanized rubber scrap by heating the same in the presence of a condensation product of a monoaryl hydrazine and a member of the group consisting of aldehydes and ketones at a temperature of about 100–160° C.

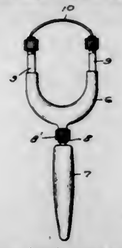
2,280,485
CALCULATING DEVICE
Albert T. Harris, New York, N. Y.
Application September 9, 1940, Serial No. 356,081
9 Claims. (Cl. 33—1)



7. A vectorial computer of the class described having a base, movable means on said base having a predetermined direction of movement to represent a vector quantity, means angularly movable to the direction of movement of the first said means to represent a second vector quantity, and adjustment means on said angularly movable

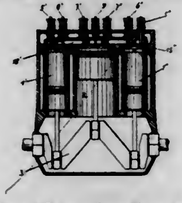
said means to cause said first means and second means to be varied when the adjustment means is actuated.

2,280,486
MODELING INSTRUMENT
Aline E. Hendy, Flora, Ill.
Application June 20, 1941, Serial No. 398,973
3 Claims. (Cl. 30—116)



1. In a modeling instrument, a cutting member of loop shape, a handle, prongs extending from one end of the handle and means for clamping the ends of the cutting member to the ends of the prongs.

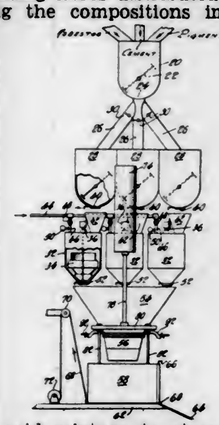
2,280,487
COMPOUND EXPANSION INTERNAL COMBUSTION ENGINE
Christian Welhelm Paul Heylandt, Berlin-Britz, Germany
Application May 22, 1937, Serial No. 144,149
In Germany May 22, 1936
7 Claims. (Cl. 60—15)



1. In an internal combustion engine having at least two stages of expansion, engine cooling means, a vaporizable liquid in said cooling means, exhaust means for the second stage, said engine cooling means and said exhaust means being adapted to convert said liquid into vapor, means for introducing the thus produced vapor into the first stage during the fuel charge compression period taking place in that stage, means for conveying from the first stage into the second stage the products of combustion and the introduced vapor, during the primary expansion period taking place in the first stage, for the final or secondary expansion in the second stage, and means for releasing from the second stage the finally expanded gases into said exhaust means, while the primary expansion period is taking place in the first stage.

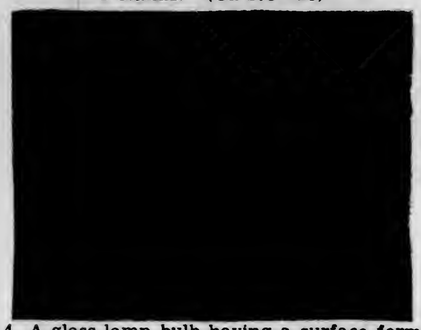
2,280,488
METHOD AND APPARATUS FOR MAKING STONELIKE UNITS
Edward M. Jenkins, Scarsdale, N. Y., and Ernest Wayne Rembert, Plainfield, N. J., assignors to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application February 20, 1939, Serial No. 257,402
12 Claims. (Cl. 18—60)

1. The method of making a stone-like unit of mottled appearance comprising forming a plurality of paste-like, similar but differently colored, substantially homogeneous compositions each including a hydraulic cementitious material and reinforcing fibres distributed therethroughout, mixing the compositions imperfectly and



subjecting said mixture to strong compression and densification in a filtering mold to cause water to flow in substantial volume throughout said mixture and finally therefrom whereby said compositions are welded into a substantially homogeneous body, and then hardening the cementitious material.

2,280,489
FROSTED LAMP
Frederick Kallus, Hoboken, N. J.
Application October 6, 1939, Serial No. 298,202
4 Claims. (Cl. 176—16)



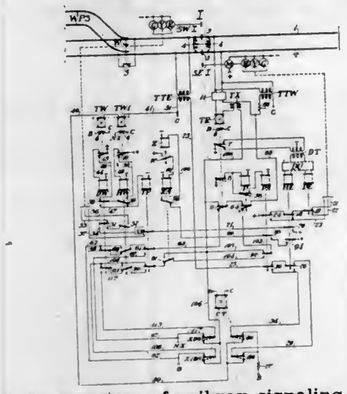
4. A glass lamp bulb having a surface formed of grain-like masses separated by fissures, the glass beneath said surface being striated and the number of striations materially exceeding the number of surface masses.

2,280,490
WRIST STRAP
Ralph J. Keltie, Wellesley Hills, Mass.
Application November 2, 1939, Serial No. 302,557
2 Claims. (Cl. 224—4)



1. A watch bracelet comprising a pair of continuous, freely flexible straps adjustably connectable around the wrist, at least one of said straps having a substantially flat and relatively inflexible member spaced inwardly of its respective ends and of a length substantially less than one-half the perimeter of the connected bracelet, said member being constructed and arranged to straighten that part of the strap to which it is applied and to resist curvature of the connected bracelet at that region only, so that the watch carried by the bracelet is held in predetermined position without constrictive tension and restrained from slipping around the wrist, when the straightened part of the strap is disposed along a relatively flat portion of the wrist while the flexible parts thereof embrace the curved sides of the wrist.

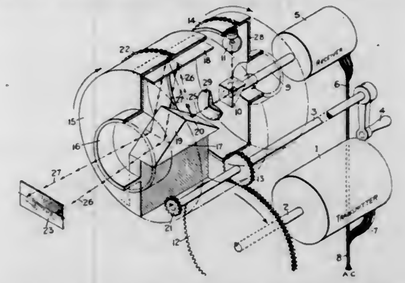
2,280,491
ABSOLUTE PERMISSIVE BLOCK SYSTEM OF RAILWAY SIGNALING
Ralph R. Kemmerer, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application September 14, 1939, Serial No. 294,897
50 Claims. (Cl. 246—33)



1. In a system of railway signaling, the combination of a control circuit that includes a pair of conductors which normally are capable of transmitting energy between given and opposite ends of the circuit but which at times are rendered incapable of such transmission, means at the given end of said circuit for supplying the conductors thereof with master code energy in the form of recurring pulses that are separated by "off" period intervals, means located at the opposite end of said circuit and operated by the there received pulses of said master code energy for further supplying the circuit conductors with feed back energy in the form of pulses that recur in step with said master code "off" periods and that are of normal polarity at times and of reverse polarity at other times, and traffic governing apparatus controlled by the conductor transmitted pulses of said feed back energy and selectively responsive according as those pulses have said normal polarity or said reverse polarity.

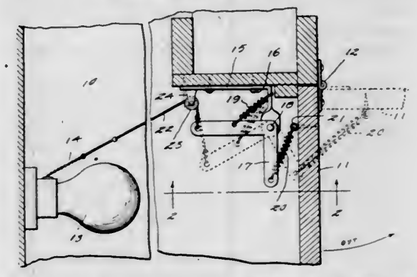
2,280,492
APPARATUS FOR TESTING TRANSMISSION SYSTEMS
Robert L. Kenngott, New York, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a corporation of New York
Application April 23, 1940, Serial No. 331,124
4 Claims. (Cl. 88—14)

1. In combination, a synchronous transmitter and receiver including power and interconnecting leads, a light reflecting surface mounted on the shaft of said receiver at an angle of forty-five degrees thereto, a drum mounted to rotate coaxially with but independent of the said shaft of said receiver, a reference luminous area on the inside walls of said drum and in the plane transverse to the shaft and including the center of said reflecting surface, a second drum mounted to rotate parallel to and coaxially with said first drum, the two said drums being adapted to permit light to pass through their ends at their axes, a reflecting prism with two flat reflecting surfaces at an angle to each other and the centers of said surfaces being in the axis of rotation of said drums, a condensing lens between said reflecting surface and said two-faced reflector prism, a second flat reflecting surface mounted



on the inside walls of said second drum the longitudinal center line of which is parallel to the axis of rotation of said drums and whose transverse center line is parallel to the line of intersection of the two surfaces of said prism, means to rotate said first drum and said transmitter at the same speed, means to rotate said second drum at half the speed of said first drum, and a ground glass plate the central normal of which is in alignment with the axis of the said drums, whereby rays of light from the reference luminous area will be reflected by the reflecting surface and the surfaces of the prism and the flat surface to the center of the ground glass when the shaft and the drums are rotationally in alignment and whereby the said rays will be displaced laterally from the center of the ground glass when the shaft and drums are not in rotational alignment.

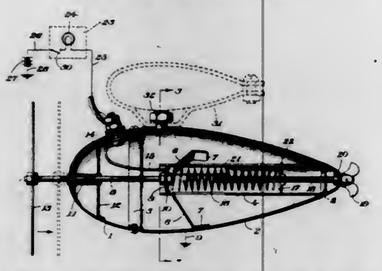
2,280,493
DOOR CONTROL FOR ELECTRIC PULL SOCKETS
Andrew S. Kinney, Redwood Falls, Minn.
Application April 4, 1940, Serial No. 327,906
2 Claims. (Cl. 200—54)



1. A door operable control for an electric pull

socket comprising a mounting bracket, a lever pivoted to said bracket, a spring connected to the lever and to the bracket, a spring connected to the lever on the other side of the pivot from the first mentioned spring and adapted for connection to the door, a draw means extending from the lever for connection to the electric pull socket, a guide means over which the draw member passes, said guide means being mounted by said bracket, said lever being of L-shape, and the bracket having an arm to which the lever is pivoted.

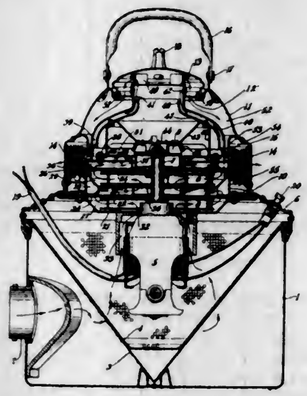
2,280,494
AIRPLANE STALL INDICATOR
Lewis R. Kinsey, Bethalto, and Oliver Bowman, Alton, Ill.
Application March 31, 1941, Serial No. 386,182
2 Claims. (Cl. 200—81)



1. An air pressure controlled switch for a stall indicator for an airplane, comprising a casing to be secured exteriorly of the body of the plane out of the path of the slip stream of the propeller thereof, a cylinder mounted within the casing, a disk piston slidably mounted in the cylinder and providing electrical contact means, a coil spring for the piston and mounted in the casing, a rod having the piston secured thereto and extending through the front of the casing, an air resistance plate secured to the front end of the rod to bring about movement of the piston against the action of the spring, a contact member arranged in the path of the piston, and the latter being urged by the spring to engage said contact member, an abutment member for the spring and the latter having its ends engaging the piston and the abutment member respectively, said abutment member being held against rotation, and handled means having the abutment member threaded thereon for adjusting the spring.

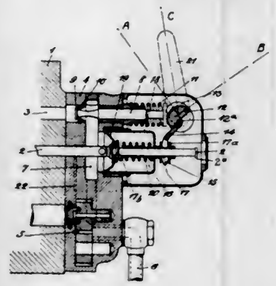
2,280,495
SUCTION CLEANER AIR FLOW CONSTRUCTION
Eugene F. Martinet, Cleveland, Ohio, assignor to The P. A. Geier Company, Cleveland, Ohio, a corporation of Ohio
Application August 3, 1939, Serial No. 288,167
5 Claims. (Cl. 43—124)

1. Suction cleaner construction adapted selectively for use as a cleaner without a concentrated air exhaust blast and as a blower with a concentrated air exhaust blast, including a motor, a fan, a housing shell enclosing the motor and fan, walls forming fan chamber means within the housing shell and having an axial restricted outlet neck, walls forming exhaust passages leading from said fan chamber means to said restricted outlet neck, removable closure means for the housing normally covering said outlet neck, walls forming exhaust passages communicating with said outlet neck within said housing and terminating in circumferentially arranged openings in



said housing of greatly increased combined area with respect to said restricted outlet neck.

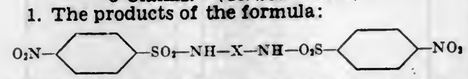
2,280,496
LIQUID PRESSURE REGULATOR FOR INJECTION PUMPS
Samuel Meiswinkel, Gaggenau, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany
Application May 3, 1938, Serial No. 205,687
In Germany May 7, 1937
8 Claims. (Cl. 123—140)



1. A fuel injection device for a combustion engine, comprising an injection pump, a fuel feed device, a pressure conduit leading from said fuel feed device to said injection pump, an adjustable throttling member in said conduit, control means for said throttling member, means for regulating the output of said injection pump, a movable pressure responsive device exposed to the pressure prevailing in the part of said pressure conduit between said fuel feed device and said throttling member to change its position as said pressure varies, said pressure responsive device being connected with said regulating means to shift the latter towards stop position when said pressure increases and towards full-load position when said pressure decreases, and stop means operatively connected with said control means to limit the movement of said regulating means in at least one direction in dependence upon the adjusted position of said control means.

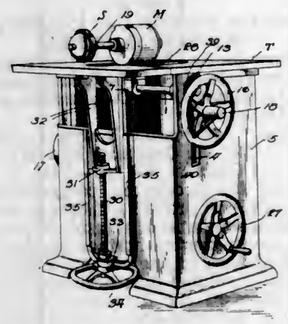
2,280,497
CYCLIC SULPHONIC ACID AMIDE COMPOUNDS
Fritz Mietzsch and Josef Klarer, Wuppertal-Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application July 28, 1938, Serial No. 221,713. In Germany August 4, 1937
3 Claims. (Cl. 260—397.7)

1. The products of the formula:



wherein X stands for a cyclic radical containing no acid group selected from the group consisting of phenylene radicals, naphthalene radicals and radicals containing two benzene nuclei selected from the group consisting of diphenyl, diphenylmethane, diphenylketone, diphenyloxide, diphenyleneoxide, diphenylsulphide, diphenylamine, diphenylenesulphone and diphenylsulphone radicals.

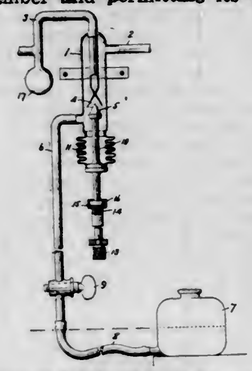
2,280,498
SANDING MACHINE
Fred H. Morris, High Point, N. C.
Application August 29, 1940, Serial No. 354,753
14 Claims. (Cl. 51—72)



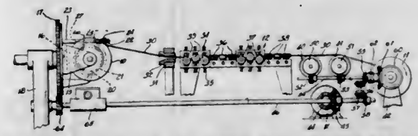
1. The combination of a framework or housing having vertically disposed slots in its opposite ends, a floating shaft having its opposite ends located in and guided by said slots, a motor and rotary head carried by the shaft, runners slidably mounted within the ends of the framework or housing, and having bearings in which the opposite ends of the floating shaft are mounted to turn, means for raising and lowering said shaft, and means for turning the shaft axially whereby to swing the motor and head into and out of operative position.

2,280,499
VALVE
Holloway Wardlow Perkins, Beaumont, Tex., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application May 25, 1940, Serial No. 337,160
6 Claims. (Cl. 251—21)

1. A valve comprising a chamber, an inlet thereto, an outlet therefrom below said inlet, valve members within said chamber controlling exit of fluid therefrom, expansible means supporting one of said valve members and adapted to be filled with sealing fluid, means outside said chamber adapted to operate said expansible means and open and close said valve, and means below said outlet for admitting a sealing fluid to said chamber and permitting its exit therefrom to effectively seal said valve member when in contact.



2,280,500
METHOD AND APPARATUS FOR TREATING WIRE ROPE
John R. Reyburn, Fairfield, Conn.
Application December 14, 1939, Serial No. 309,141
16 Claims. (Cl. 57—34)



1. The method of producing an inert rope which consists in simultaneously subjecting a section of the rope to twist torsion and bending stresses of insufficient values singly but of sufficient combined values to stress the elements of the rope beyond their elastic limit.

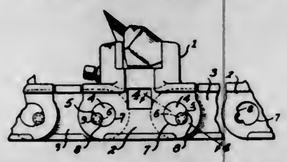
2,280,501
CONTAINER FOR FLUIDS UNDER PRESSURE
Arthur Stephenson, London, England, assignor to The British Oxygen Company Limited, London, England
Application August 15, 1939, Serial No. 290,162
In Great Britain August 25, 1938
2 Claims. (Cl. 220—3)



1. A container adapted for the storage of fluids under pressure comprising a substantially cylindrical body portion formed from a single

homogeneous tubular member, and an end piece at each extermity of the body portion constituting a closure member, said end pieces being formed integrally with the body portion by progressive reduction in diameter of the material of the body portion, the mass per unit area of the material constituting the body portion decreasing towards each extremity substantially in proportion to the degree of reinforcement for resistance to stress and dilation imparted to and transmitted along the body portion by the end pieces, said decrease in mass being effected by a progressive reduction in thickness of the body portion whereby the resistance to stress and dilation due to internal fluid pressure is substantially uniform throughout said body portion, and wherein the progressive reduction in thickness of the body portion is stepped at appropriate intervals.

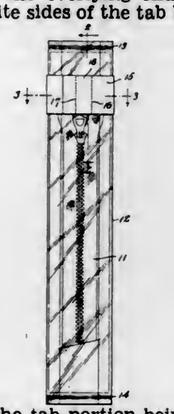
2,280,502
CUTTER CHAIN
Edwin P. Stenger, Cincinnati, Ohio, assignor to The Cincinnati Mine Machinery Company, Cincinnati, Ohio, a corporation of Ohio
Application May 31, 1939, Serial No. 276,516
2 Claims. (Cl. 74—251)



1. In combination with a bit carrying link of a mining machine cutter chain, and a connecting link, one of said links having spaced side bars permanently held in position between which the other link is introduced, said other link having a circular aperture, and a pintle mounted in opposite apertures in the side bars and passing through said circular aperture in the other link, said pintle having a flattened portion, and at least one of the side bars having an aperture for the pintle end which includes a shoulder to engage the flattened portion, thereby preventing the pintle from rotation, said pintle being longitudinally slidable through at least two of said apertures when links are in position for assembling, and means for securing the pintle against endwise movement comprising means engaging the pintle ends but not projecting longitudinally therefrom and passing through a channel in at least one of the side bars.

2,280.503
MERCHANDISE PACKAGE
David Traum, New York, N. Y., assignor to Dritz-Traum Company, Inc., New York, N. Y., a corporation of New York
Application November 21, 1939. Serial No. 305,434
1 Claim. (Cl. 206—78)

In a merchandise package, a flexible wrapper enclosing the merchandise and having its longitudinal edge portions secured in overlapping relation, and a band of a length substantially coextensive with the width of the wrapper and having a pair of spaced transversely extending weakened lines adjacent to and spaced from one end thereof defining a removable tab adapted to bear stock control indicia, said band surrounding the wrapper transversely thereof with the opposite ends of the band disposed in overlapping relation, the underlying end of the band being disposed between and secured to the overlapping portions of the wrapper adjacent the longitudinal edges thereof, the overlying end portion of the band on opposite sides of the tab being secured to



the wrapper, the tab portion being free and unsecured for removal so as to leave the remainder of the band in secured surrounding relation to the wrapper when the tab is removed.

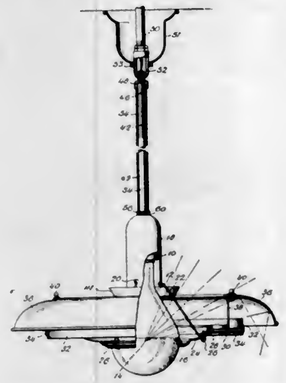
2,280,504
PROCESS FOR PRODUCING COMPOUNDS OF THE DIARYL SERIES
Werner Zerweck and Karl Schütz, Frankfort-on-the-Main-Fechenheim, Germany, assignors to General Aniline & Film Corporation, a corporation of Delaware
No Drawing. Application March 1, 1939, Serial No. 259,132. In Germany March 3, 1938
1 Claim. (Cl. 260—315)

A process for producing compounds of the diaryl series which process consists in transforming the diazocompound of an amine selected from the group consisting of amines of the aromatic series and amines of the carbazole series into a scarcely water soluble diazoaminocompound and while splitting off the diazoaminocompound by the action of an acid agent condensing with an aromatic compound in the molecule of which only members of the group consisting of hydrogen, halogen, nitro-, aldehyde-, ketone- and carboxylic acid groups are attached to the ring members.

2,280,505
LIGHTING FIXTURE
Morris B. Beck, Lawrence, N. Y.
Application November 5, 1938, Serial No. 239,032
3 Claims. (Cl. 240—78)

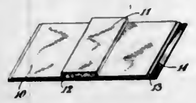
1. An indirect lighting fixture comprising an incandescent bulb of the silvered bowl type, means for supporting said bulb in a base up position, an annular shield, a mounting for supporting said shield in a position surrounding said bulb substantially at the level of the upper edge of the silvered bowl thereof, an annular reflector for reflecting light from the bulb downwardly and inwardly, a mounting for said reflector whereby it is supported in a position coaxial with the vertical longitudinal axis of the bulb at a level above the upper edge of the silvered bowl thereof, and the inner rim of the reflector being spaced in a radial direction from the outer rim of the shield, and glare shielding means surrounding the annular shield and preventing direct view of the unsilvered portions of the bulb from below the fixture while permitting light rays and air to pass therethrough in a vertical direction, whereby a

portion of the light from the bulb will pass without obstruction to the ceiling, while another portion will be directed underneath the fixture by



the annular reflector, and whereby substantially vertical light rays from the ceiling and from said reflector may pass through said glare shielding means.

2,280,506
SURGICAL DRESSING
Richard T. Betts, New York, N. Y.
Application March 10, 1941, Serial No. 382,516
1 Claim. (Cl. 128—156)



In a surgical structure, upper and lower adhesive members, the former having a recess of a definite cross section with substantially perpendicular sides and marginal areas adjacent to and extending from these sides, a cushioning element corresponding in cross section to that of the recess and completely filling the latter, the entire bottom surfaces of the border areas of the upper member being secured to corresponding upper surface areas of the lower member, so that the latter is stretched across and effectively bridges the recess and thereby takes up the pulling strain to which the upper member would otherwise be subjected when the structure is applied to the body, thus preventing the deformation of the recess and the spreading of the cushioning element therewithin, said lower member being adapted to be adhesively attached to the body.

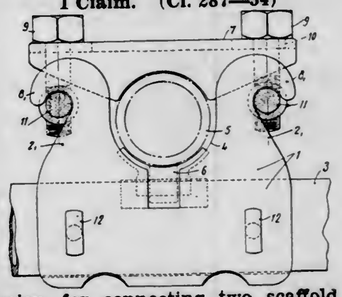
2,280,507
PHTHALOCYANINE DYESTUFFS
Berthold Bienert and Sebastian Gassner, Leverkusen-I. G.-Werk, Germany, assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application August 2, 1940, Serial No. 350,130. In Germany October 23, 1935
8 Claims. (Cl. 260—314)

1. A sulfonic acid of a phthalocyanine containing a phenyl group as a substituent on each of its four benzene nuclei this product having been obtained by sulfonating a phthalocyanine containing a phenyl group as a substituent on each of its 4 benzene nuclei.

2,280,508
MANUFACTURE OF SULPHURIC ACID
L'Roche G. Bousquet, Baldwin, and Maxwell J. Brooks, New York, N. Y., assignors to General Chemical Company, New York, N. Y., a corporation of New York
No Drawing. Application July 11, 1940, Serial No. 344,910
10 Claims. (Cl. 23—172)

1. In the process of recovering sulphuric acid from residual sulphuric acid liquor resulting from hydrolytic precipitation of metatitanic acid, said liquor containing iron sulphate and other metal impurities, the steps comprising concentrating the liquor, to sulphuric acid strength of not less than 60% H_2SO_4, under conditions effecting precipitation from the liquor of the bulk of the contained iron as iron sulphate, separating precipitated iron sulphate from the resulting sulphuric acid solution, treating said solution with material of the group consisting of oleum and SO_3 gas to increase sulphuric acid concentration of said solution to not less than 98% H_2SO_4, thereby effecting precipitation of metal impurities, and separating precipitated solids from the solution.

2,280,509
MEANS FOR ASSEMBLING TUBULAR ELEMENTS
René Nicolas Chéron, Juan-les-Pins, Alpes-Maritimes, France
Application March 29, 1940, Serial No. 326,564
In France May 3, 1939
1 Claim. (Cl. 287—54)

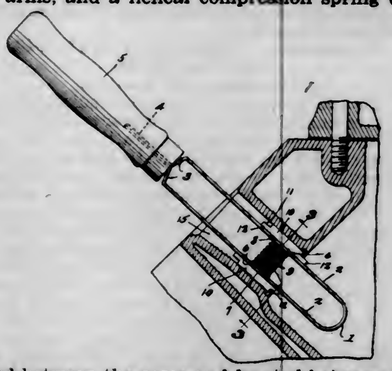


A union for connecting two scaffold pipes, said union comprising a U-shaped bracket plate to carry one of the pipes, projections disposed on the corner of said bracket plate, said projections forming two trough shaped bearings to carry the second pipe in a direction substantially at right angles to the first pipe, an elongated cap disposed between said projections and substantially parallel to the longitudinal axis of the curve of said U-shaped bracket plate, said cap having a base curved to rest upon the top of the second pipe, means to connect one end of said cap to the two adjacent projections, the other two projections having hooked portions facing downwardly and outwardly, a bolt projecting through the second end of said cap and free for pivotal movement relative therewith and an elongated nut hooking under said hooked portions, said nut being disposed for cooperation with said bolt.

2,280,510
MOTOR CLEANER
George Esko, Esko, Minn.
Application May 14, 1941, Serial No. 393,456
3 Claims. (Cl. 15—104.01)

1. A cleaner for the valve tubes of internal combustion engines and the like, comprising a resil-

ient, loop-shaped body including opposed arms, operating means assembled with one end of the body, scrapers located on the outer surfaces of the arms, and a helical compression spring dis-



posed between the arms and located between the scrapers, the arms having transverse slits defining wings, the wings comprising inwardly extended parts engaging the terminal convolutions of the spring.

2,280,511

POULTRY ROOST

Harry Forsyth, Prosser, Wash.

Application August 11, 1941, Serial No. 406,377
2 Claims. (Cl. 119—25)



1. A roost bar formed of sheet metal having a flat top and sides inclined downwardly and inwardly, the top of the roost bar being provided with struck up beads to enable poultry to obtain a firm grip on the roost, the lower portions of the inwardly inclined sides of the roost bar being turned upwardly and then inwardly to provide troughs for insecticide opening on the exterior of the roost bar, end walls closing the ends of the roost bar and the troughs, spring clips engaging the roost bar at the troughs, and bolts carried by the spring clips for securing the spring clips to a support.

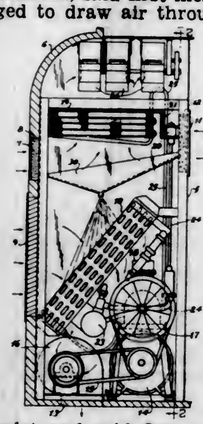
2,280,512

REFRIGERATION APPARATUS

Harold Hemming, Dedham, and Charles W. Peterson, West Roxbury, Mass., assignors to B. F. Sturtevant Company, Hyde Park, Boston, Mass.

Application May 2, 1940, Serial No. 332,864
4 Claims. (Cl. 62—140)

1. An air cooler comprising an upright substantially rectangular unit having an outdoor air inlet and a recirculated air inlet in opposite walls, a blower in said unit above said inlets, means forming an air discharge outlet in said unit in alignment with said blower, an evaporator in said unit between said inlets and said blower, a tilted condenser in said unit below said inlets, means forming a partition in said unit between said evaporator and said condenser, a second outdoor air inlet below said partition in alignment with said condenser, a compressor below the upper end of said condenser, a blower below the lower end of said condenser, and means forming an outlet from said unit connecting with the discharge of said blower, said compressor, condenser and evaporator being connected in a refrigeration circuit, said first mentioned blower being arranged to draw air through said recir-



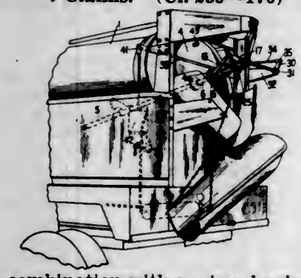
culated air inlet and said first mentioned outdoor air inlet, over said evaporator and for discharging it from said first mentioned outlet, and said second mentioned blower being arranged to draw air through said second mentioned outdoor air inlet, over said condenser and compressor and for discharging it through said second mentioned outlet.

2,280,513

DOOR STRUCTURE FOR MIXERS

Gebhard Jaeger and Clarence I. Bohmer, Columbus, Ohio, assignors to The Jaeger Machine Company, Columbus, Ohio, a corporation of Ohio

Application April 21, 1941, Serial No. 389,592
7 Claims. (Cl. 259—176)



1. In combination with a mixer having a frame carrying a drum having an opening formed therein, a door for movement between closed and opened positions relative to said opening, a support independent of said frame associated with said opening for supporting said door for such movement, and a toggle lock structure carried by said support independently of said frame.

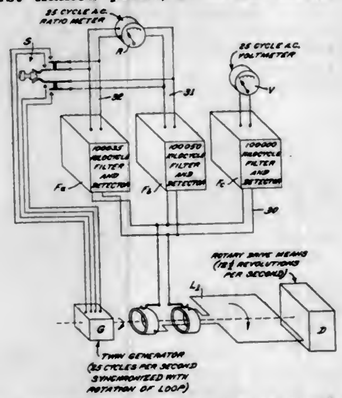
2,280,514

SINGLE LINE GUIDING BEACON

Armig G. Kandoian, New York, N. Y., assignor to International Telephone Development Co., Inc., New York, N. Y., a corporation of Delaware

Application January 31, 1940, Serial No. 316,497
7 Claims. (Cl. 250—11)

7. The method of guiding an aircraft which comprises producing two overlapping radiation patterns extending over a plane in phase opposition to one another, and having a common plane of polarization substantially intersecting said first named plane, receiving energy from



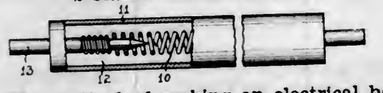
said two patterns, comparing the received energy from said two patterns to determine said first plane, comparing polarization of the received signals to determine said second named plane, and guiding said craft along the line determined by the intersection of said planes.

2,280,515

ELECTRICAL INSULATING MATERIAL AND METHOD OF PRODUCING THE SAME

Raymond R. Ridgway, Niagara Falls, N. Y., and Archibald H. Ballard, Niagara Falls, Ontario, Canada, assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application October 27, 1939, Serial No. 301,642
2 Claims. (Cl. 201—64)



1. The method of making an electrical heating unit insulating material comprising the steps of providing magnesia containing compounds of iron, silicon and calcium in amounts, calculated as oxides, of not over 0.5% by weight of ferric oxide, 5% of SiO_2 and 3% of CaO, melting and crystallizing the magnesia of the material, reducing the iron content during the treatment of the material to a total of not over about 0.1% by weight, calculated as ferric oxide, and roasting the material in a granular condition in an oxidizing atmosphere for at least 24 hours at a temperature above 1250° C. and thereafter cooling the same.

2,280,516

METHOD OF TREATING MAGNESIA AND ELECTRICAL INSULATING MATERIAL DERIVED THEREFROM

Raymond R. Ridgway, Niagara Falls, N. Y., and Archibald H. Ballard, Niagara Falls, Ontario, Canada, assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application October 27, 1939, Serial No. 301,643
10 Claims. (Cl. 201—64)

6. A refractory, heat conductive, electrical resistance heating element embedding and insulating material comprising primarily granular crystalline magnesia containing an iron compound in a substantial amount of not over 0.5% by weight, calculated as ferric oxide, wherein any



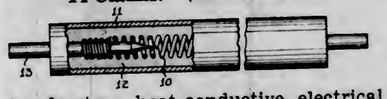
iron compound therein is present substantially wholly as an internal phase within the magnesia crystals.

2,280,517

ELECTRICAL INSULATION OF MODIFIED MAGNESIA AND METHOD OF MAKING THE SAME

Raymond R. Ridgway, Niagara Falls, N. Y., and Archibald H. Ballard, Niagara Falls, Ontario, Canada, assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application October 27, 1939, Serial No. 301,644
14 Claims. (Cl. 201—64)



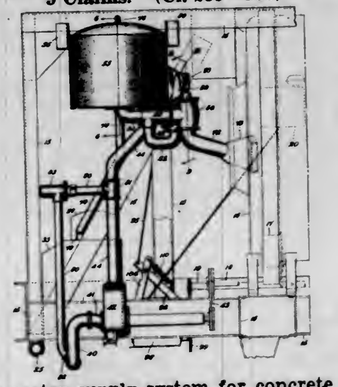
1. A refractory, heat conductive, electrical resistance heating element embedding and electrically insulating material consisting of a granular crystalline mass comprising magnesia constituting the major portion intimately associated with a lesser amount of a spinel comprising magnesia and another spinel forming non-ferrous refractory metal oxide which is capable of absorbing iron oxide.

2,280,518

WATER SUPPLY SYSTEM FOR CONCRETE MIXERS

Charles F. Ball, Wauwatosa, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin

Application October 9, 1939, Serial No. 298,687
5 Claims. (Cl. 259—163)



1. A water supply system for concrete mixers which are provided with a mixing receptacle and a batchmeter for timing a mixing operation in said receptacle, comprising a tank arranged to receive water from a source of supply; a measuring tank; means for determining a quantity of water to be discharged from said measuring tank; connections between said tanks; connections between said measuring tank and the mixing receptacle; valve means for controlling said connections, arranged to normally provide open communication between said tanks and to close off communication between said measuring tank and

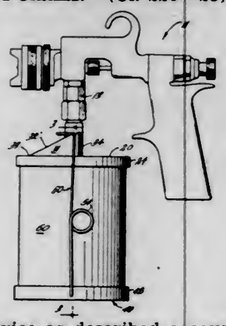
receptacle; means arranged to actuate said valve means to close off communication between said tanks and open it between said measuring tank and receptacle; means for temporarily retaining said valve means in said last named position independently of said valve actuating means; and means controlled by said batchmeter arranged to release said retaining means, whereby said valve means may be restored to normal.

2,280,519

CONTAINER AND HOLDER FOR AIR GUNS

Nelson Beck and Nolan Goodman, North Hollywood, Calif., assignors of one-third to Rene Joseph Beaupre, West Los Angeles, Calif.

Application January 23, 1940, Serial No. 315,170
4 Claims. (Cl. 220—25)



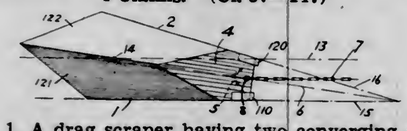
4. In a device as described a cover for a container having a tube extending downwardly therethrough and an air vent, the cover on its undersurface having a gasket combined with a pair of cams on the upper surface of the cover, such cams sloping upwardly from adjacent one edge of a cover and diverging from the center of the cover, the highest points of the cams being on a diameter line, there being a stop means on each cam adjacent the upper portion, an annular base with means to engage and center the bottom of a container, a yoke having a pair of resilient straps, means pivotally connecting the straps at their lower ends to the base, the yoke having a transverse section at the upper ends of the straps to engage the cams, the transverse section being adapted to slide on the cams in movement to the high point and to the said stop, the high point of the cams engaging the transverse section of the yoke closely contiguous to the two straps, such straps having a clearance in a pivoting movement at the sides of the cover.

2,280,520

DRAG SCRAPER BUCKET

William G. Davenport, Philadelphia, Pa., assignor to Beaumont Birch Company, Philadelphia, Pa., a corporation of Pennsylvania

Application August 22, 1939, Serial No. 291,294
4 Claims. (Cl. 37—147)



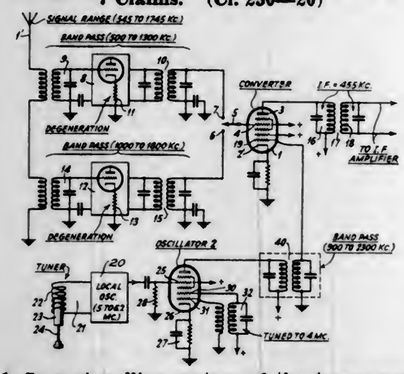
1. A drag scraper having two converging digging edges, and a cable for pulling said drag scraper forward attached to the front end of said scraper at a point located in the center plane of the scraper and substantially half-way between a plane passed through the center of gravity of the scraper and another plane passed through that digging edge of the scraper which is down.

2,280,521

RADIO RECEIVER

Dudley E. Foster, South Orange, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application May 17, 1940, Serial No. 335,650
7 Claims. (Cl. 250—20)



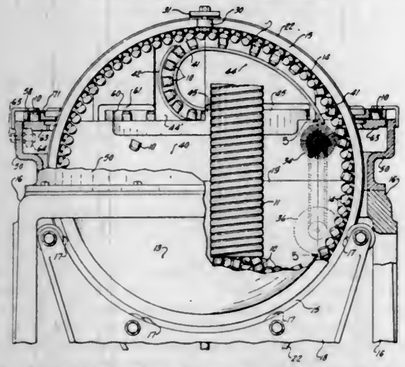
1. In a signalling system of the type employing a converter tube provided with a signal input electrode and an oscillation electrode, an intermediate frequency output circuit for the tube, a signal input circuit, fixedly resonated to pass a wide band of desired signal frequencies, coupled to the signal grid, a variably tuned oscillator functioning as the sole signal selection device of the system, a network for reducing the frequency of the oscillation energy output of the said oscillator to a substantially lower value, and means for impressing the reduced frequency energy on said oscillation electrode.

2,280,522

APPARATUS FOR FEEDING CYLINDRICAL METAL SHELLS

Clarence E. Hahn, Euclid, Ohio, assignor to General Electric Company, a corporation of New York

Application November 30, 1940, Serial No. 368,027
15 Claims. (Cl. 198—29)



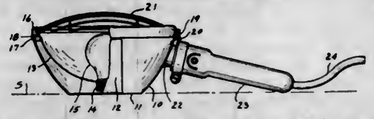
1. Apparatus for feeding cylindrical metal shells having an opening in one end comprising a plurality of movable pins corresponding in size to the opening in the shells and arranged, at a given point in their travel, in an upright position, means for confining a plurality of disarranged shells in a pile on the top of said pins at the said given point in their travel, means for moving said pins sideward to displace the shells and urge the open end thereof to pass over the ends of said pins so that they are orientated and held by the said pins and for moving said pins to an inverted position at a second location to cause the shells to drop therefrom, and means for receiving and conducting said shells from said location.

2,280,523

PORTABLE EXTENSION LAMP

John W. Hauff, Akron, Ohio

Application March 23, 1940, Serial No. 325,599
2 Claims. (Cl. 240—54)



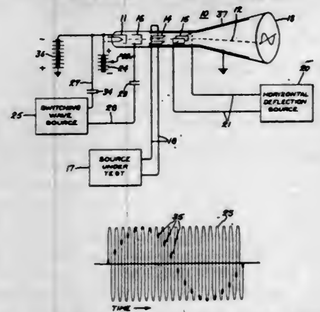
1. A portable extension lamp comprising a casing, an electric light source in said casing for projecting light from one end thereof, a supporting base at the opposite end of said casing, a second base on said casing intermediate said ends thereof, the plane of said second base being at an angle to the plane of the first-named base, an elongate handle connected to said casing intermediate said opposite ends thereof, and an extension cord received through said handle to provide an electrical connection to said light source, the connecting end of said handle being in substantially spaced relation to the planes of both said bases, said handle extending freely outwardly of the casing at angles to both of said planes and each of these angles being such with relation to the length of the handle that portions of the end thereof coincide with the respective planes, the end of the handle thereby being adapted to contact a supporting surface when the casing is supported on either of its bases to prevent tilting of the casing due to the weight of the handle and said angles of the handle also providing space between a major portion thereof and the supporting surface in either of said supported positions of the casing.

2,280,524

ELECTRICAL WAVE ANALYSIS

Siegfried Hansen, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application November 1, 1940, Serial No. 363,902
9 Claims. (Cl. 171—95)



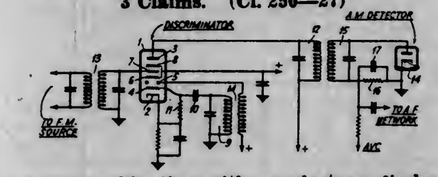
1. The method of analyzing the form of an oscillatory wave which comprises measuring the instantaneous magnitude of said wave at periodically recurring instants of time spaced apart by a time interval differing from the time interval of a cycle of said wave, or differing from an integral multiple thereof, by not more than the time interval of one quarter of a cycle, and indicating each measurement as a function of time.

2,280,525

FREQUENCY MODULATED WAVE DETECTOR

Seymour Hunt, Jackson Heights, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application July 2, 1940, Serial No. 343,537
3 Claims. (Cl. 250—27)



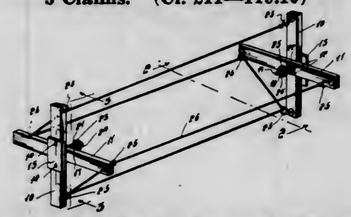
1. In combination with an electron discharge tube having at least a cathode, an output electrode and a pair of control electrodes arranged in the electron stream between the cathode and output electrode, means applying a variable frequency signal of constant amplitude to one control electrode, means applying a substantially constant frequency signal of the center frequency value of said variable frequency signal and of substantially constant amplitude to the second control electrode, said applying means comprising an anode electrode located in said tube, a resonant circuit tuned to said constant frequency reactively coupling said anode and second cold electrode, and rectifier means connected to the output electrode for deriving from the electron stream modulation voltage proportional to the instantaneous frequency of said variable frequency signal.

2,280,526

CLOTHESLINE HOLDER

Clarence H. Johnson, Lanesboro, Pa., assignor of one-half to Edmond J. Ahearn, Susquehanna, Pa.

Application November 22, 1940, Serial No. 366,735
3 Claims. (Cl. 211—119.10)



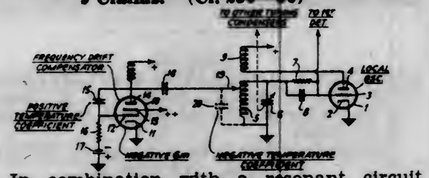
1. In a clothes line holder construction of the character described wherein a clothes line is attached to spaced holders and wherein the holders are attached to spaced supports, each holder including a pair of crossed arms rigidly connected together at their crossing points, a clothes line extending between corresponding ends of the crossed arms of the two holders, and a pivotal connection between each holder and its support whereby clothes may be hung upon each line between the ends of the crossed arms upon rotation of the holders while standing at one side of the clothes line.

2,280,527

OSCILLATOR DRIFT COMPENSATION DEVICE

Charles N. Kimball, Jackson Heights, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application September 7, 1940, Serial No. 355,714
9 Claims. (Cl. 250—36)



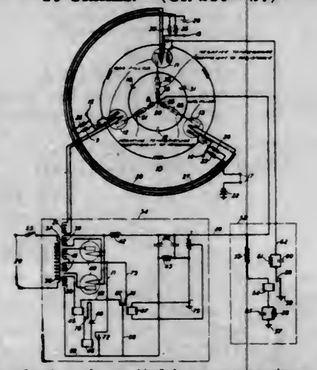
1. In combination with a resonant circuit adapted to vary in frequency by virtue of temperature effect on the circuit reactance, an electron discharge tube having at least a cathode and two cold electrodes, means applying alternating voltage across said circuit between said cathode and one of said cold electrodes, a phase shifter connected with said one cold electrode for developing from said voltage a second voltage in phase quadrature therewith, means applying the second voltage between the second cold electrode and cathode, and said phase shifter including a reactive element having a temperature coefficient of predetermined sign so related to the mutual conductance of said tube that a reactive effect is produced between said one electrode and cathode which has a temperature coefficient that effectively compensates for said frequency variation.

2,280,528

ELECTRONIC SWITCHING APPARATUS

Archie P. King, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application April 26, 1940, Serial No. 331,715
10 Claims. (Cl. 250—27)



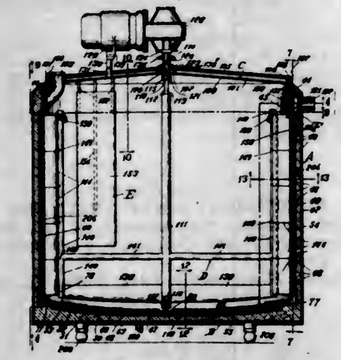
1. An electronic switching apparatus comprising in combination a plurality of gaseous discharge tubes each of which embodies a grid, a cathode and an anode, circuit means embodying said tubes and arranged to institute ionization in each thereof seriatim to produce discrete voltage pulses, said circuit means comprising means including a resistance element individual to each tube to apply biasing voltage to the grid of a next succeeding tube to render all said tubes normally inoperative, and means to control the time constant of ionization of each tube including a pair of resistance elements connected in series in the anode-cathode circuit of each of said tubes, one of said pair of resistance elements providing a voltage to counteract the biasing voltage applied to said next succeeding tube and the other of said pair of resistance elements possessing a negative temperature coefficient of resistance; means to apply voltage to the anodes of said tubes, and electromagnetic means responsive to the initial operation of said anode voltage means to apply ground potential momentarily to the grid of a certain tube to effect ionization therein in advance of the other tubes so that the flow of space current in the anode-cathode circuit of said ionized certain tube increases as the effective resistance of said resistance element connected in the anode-cathode circuit of said ionized certain tube and possessing the negative temperature coefficient of resistance decreases in response to the increase in the temperature thereof due to the increase in the flow of space current to cause a corresponding increase in the counteracting voltage produced across said one resistance element of said pair of resistance elements individual to said ionized certain tube to render ineffective the grid biasing voltage applied to the grid of said next succeeding tube to institute ionization therein, each pair of resistance elements connected in the anode-cathode circuit of each tube and each grid biasing resistance element individual to each tube functioning in like manner to institute ionization in each next succeeding tube.

2,280,529

VAT

Timothy Mojonnier and Julius J. Mojonnier, Oak Park, and Oliver W. Mojonnier, River Forest, Ill., assignors to Mojonnier Bros. Co., a corporation of Illinois

Original application March 7, 1940, Serial No. 322,770. Divided and this application July 26, 1940, Serial No. 347,653
18 Claims. (Cl. 259—108)



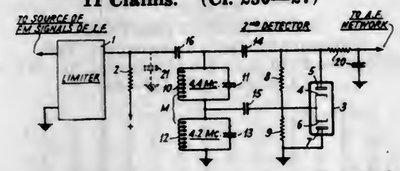
1. A vat of the class described comprising a circular wall, a bottom, a central driving shaft having a given direction of rotation, supporting means extending radially from said shaft toward said wall, an upright carried by and extending upward from said support in a direction parallel to the inner surface of said wall, a plurality of flat upright scraper sections having heads set one above another in stacked relation and each head pivotally secured at one end to said upright with a lost motion connection to allow a limited lateral movement about said upright pivot and adapted at its other end to contact said inner surface in a substantially upright straight line contact, said sections lying forward of said upright in the direction of rotation whereby the contacting ends of the scraper sections when in operations adjust themselves independently of each other to surface irregularities encountered in operation, and retaining means for ready attachment to said upright adjacent said topmost section to hold the sections in stacked relation and upon removal to permit their ready withdrawal from said upright for cleaning.

2,280,530

FREQUENCY MODULATED WAVE DETECTOR

Garrard Mountjoy, Manhasset, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application July 17, 1940, Serial No. 345,903
11 Claims. (Cl. 250—27)



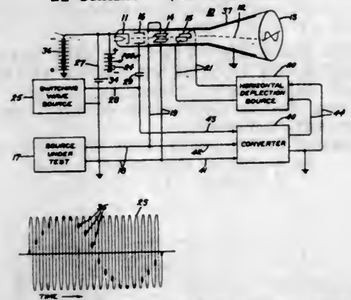
1. In combination with a network supplying frequency modulated carrier waves, a detection network comprising a pair of rectifier circuits, each rectifier circuit having a resonant input circuit and an audio output circuit, said rectifier input circuits being oppositely and equally mistuned with respect to the center frequency of said modulated waves, said output circuits being arranged in phase opposition, and said input circuits being arranged in series relation with each other and with the space current paths of the rectifiers, said supply network having capacity coupling to said input circuits, said input circuits being magnetically coupled with each other to provide sufficient mutual inductance to cancel out the effect of said capacity coupling.

2,280,531

OSCILLOGRAPH APPARATUS

Donald E. Norgaard, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application November 1, 1940, Serial No. 363,883
11 Claims. (Cl. 171—95)



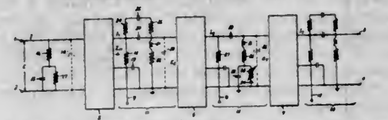
1. In oscillographic apparatus for analyzing electrical waves, the combination of means for developing and projecting a ray, means for deflecting said ray in one direction in accordance with a wave of a first frequency and of predetermined wave form, means for deflecting said ray in another direction in accordance with an oscillatory wave of a second frequency and of an unknown wave form to be analyzed, means for varying the intensity of said ray intermittently and periodically at a third frequency differing from said second frequency by a fourth frequency, said fourth frequency being normally related to said first frequency in an integral ratio, and means responsive to any variations in said fourth frequency for correspondingly varying said first frequency to maintain said ratio constant.

2,280,532

WIDE BAND AMPLIFIER

Donald E. Norgaard, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application May 1, 1941, Serial No. 391,378
12 Claims. (Cl. 179—171)



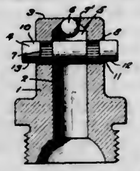
1. In an amplifier for producing uniform ratio between input current and output voltage, said amplifier having resistance and capacity in shunt with its input to which said current is supplied, said current having frequencies extending over a wide band and having intensities only slightly above the noise level of said amplifier, the method which comprises attenuating currents in the intermediate frequency portion of said band above the frequency of the most intense noise currents of the amplifier without changing the characteristic relation between intensity of voltage on said resistance and capacity and frequency in the high frequency portion of the band, attenuating in a later stage of the amplifier low frequency currents to produce uniform amplification at all frequencies below said high frequency portion of the band and thereafter accentuating the voltages having frequencies in said high frequency portion of the band by an amount sufficient to overcome the attenuation produced by said shunt resistance and capacity in said high frequency portion of the band, said accentuation occurring at a point of said amplifier subsequent to a stage following the point where said low frequency accentuation occurs thereby to avoid overloading said last mentioned stage with currents to be attenuated.

2,280,533

FILLER NECK FOR LOCOMOTIVE LUBRICATION SYSTEMS

Ernest B. Norman and George A. Pettit, New Orleans, La., and Leo F. Serrick, Defiance, Ohio; said Pettit and said Serrick assignors to said Norman

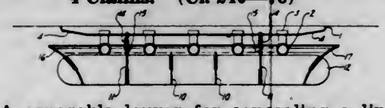
Application May 16, 1940, Serial No. 335,644
1 Claim. (Cl. 184—105)



Filler neck comprising an integral metal nipple having a longitudinal bore opening through the outer end of said nipple, said outer end being planiform, said nipple being formed with aligned diametrical pin bores in opposite walls thereof intersecting said longitudinal bore and having their axes parallel to the plane of the outer end, and a cylindrical pin extending

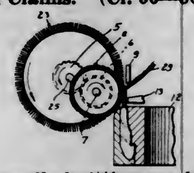
through said pin bores and outwardly therefrom beyond the sides of said nipple, said pin having a smooth intermediate portion, smooth end portions and knurled zones disposed between said smooth portions and of slightly larger diameter than said smooth portions, said knurled zones being narrower than the thickness of the nipple walls, having their inner ends substantially flush with the surface of the longitudinal bore and their outer ends terminating within said walls, said pin, both as to the smooth portions and knurled zones which lie within said walls being pressure-seated whereby the adjacent metal of the nipple is in condensed condition, the intact condensed metal which lies in endwise relation outwardly of one knurled zone forming a stop to prevent endwise movement of the pin in one direction, the condensed metal adjacent the outer end of the other knurled zone being upset into endwise relation to said last named knurled zone to prevent endwise movement of the pin in the other direction.

2,280,534
LIGHTING FIXTURE
Charles T. Masterson, East Cleveland, and Wentworth M. Potter, Lyndhurst, Ohio, assignors to General Electric Company, a corporation of New York
Application November 9, 1940, Serial No. 364,984
4 Claims. (Cl. 240—78)



2. A separable louver for concealing a linear light source from observation, said louver comprising a plurality of strips straight in transverse section which intersect each other in a multiplicity of straight, parallel lines and a plurality of strips curved in transverse section which intersect said first-named strips in a multiplicity of curved lines.

2,280,535
APPARATUS AND METHOD OF MAKING KNITTED FABRIC
David Pelton Moore, Avon Park, Fla.
Application November 12, 1940, Serial No. 365,301
11 Claims. (Cl. 66—80)



1. A spring needle knitting machine, including in combination a rotatable needle cylinder carrying a plurality of non-slidable spring needles, a fiber feeding device for wiping such fibers into the hooks of the needles at a point prior to the introduction of the yarn into the barbs of the needles and the knitting of the yarn therein, and means for placing the free ends of the needle-held fibers to the inner side of the needles.

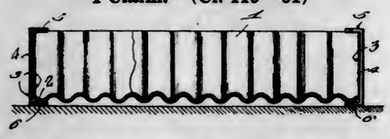
2,280,536
KNITTED FABRIC
David Pelton Moore, Avon Park, Fla.
Application November 12, 1940, Serial No. 365,388
7 Claims. (Cl. 66—191)

1. A knitted fabric composed of yarn and short loose fibers and in which the yarn forms the basic web while the short loose fibers commingle with the yarn so that at each loop a U-shaped portion is formed with the short loose



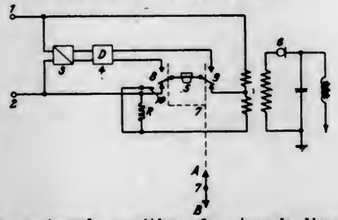
fibers while the terminals of the U lay co-extensive with each other and span the next course of loops to be engaged and held in place by the next succeeding needle formed loop in the next succeeding course of loops.

2,280,537
METAL FEED TROUGH
Emanuel Murphy, Logansport, Ind.
Application February 7, 1940, Serial No. 317,764
1 Claim. (Cl. 119—61)



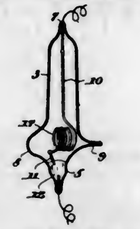
A feed trough comprising an elongated body of sheet metal arcuate transversely and formed with transverse corrugations, the corrugations extending the full width of the body and being arcuate in transverse section and merging into each other, corrugations at ends of the body constituting inturned upwardly extending attaching flanges for the body, sheet metal end walls for the body formed separate from the body and extending transversely thereof and projecting from opposite sides thereof, the end walls being formed of flat sheets having flat flanges extending inwardly along their upper and lower edges with ends of the body resting on the lower flanges and the upper flanges overlapping ends of the body and resting thereon, said body having its end flanges bearing against inner faces of the end walls, and metal fused along inner faces of the end walls and inner and outer surfaces of the end flanges of the body to weld the body to the end walls and form a solid joint therebetween.

2,280,538
TRUNK POSITION CIRCUIT FOR CARRIER FREQUENCY COMMUNICATION SYSTEMS
Herbert Nitz, Berlin, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application November 27, 1940, Serial No. 367,416
In Germany December 8, 1939
2 Claims. (Cl. 179—51)



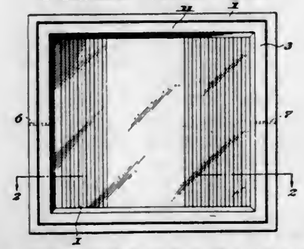
1. In a trunk position for trunk lines with carrier frequency terminal circuit, an operator's telephone set, switching means to connect this telephone set either to the trunk line in the case of carrier frequency inquiring, or to a subscriber's apparatus in the case of low frequency inquiring, a resistance for tuning in the case of low frequency operation, and means under control of said switching means to short-circuit this resistance in the case of carrier frequency inquiring.

2,280,539
INTERMITTENT SWITCH
Ernesto Eugenio Osswald, Buenos Aires, Argentina
Application July 14, 1939, Serial No. 284,540
In Argentina April 24, 1939
1 Claim. (Cl. 200—113)



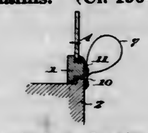
An intermittent current switch of the bimetal strip contact type, comprising a sealed glass bulb having a mercury well at one point thereof, a bimetal strip fastened at one end in the wall of the bulb and having its free end dipping into the mercury well, said strip being formed of metals having different thermal expansion coefficients whereby upon becoming heated by the passage of an electrical current therethrough the metals will unequally expand causing the bimetal strip to warp to displace the free end thereof out of said mercury well and break the circuit, said bulb being of tubular shape and placed in a substantially horizontal or inclined position, having near one end two lateral opposed projections or pockets, one of them being directed downwardly to constitute the mercury well, whereas the other, arranged above said mercury well, serves as a dome for receiving and condensing mercury vapors rising from said well.

2,280,540
WINDOW
Eric Sigfrid Persson, Malmo, Sweden
Application September 7, 1938, Serial No. 228,856
In Sweden November 5, 1937
3 Claims. (Cl. 20—56.5)



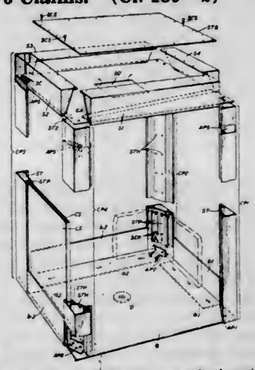
1. In a window of the type having a frame, a sash having a pane and mounted to swing in said frame on a horizontal axis, an extensible shade attached to said sash as the outside of the pane thereof, said shade having a number of slat-like portions, one portion being joined at one side edge to the corresponding edge of an adjacent portion and at its other side edge to the corresponding edge of another adjacent portion to form a composite accordion-folded structure, the total width of said slat-like portions being considerably greater than the width of the sash opening to be covered thereby so that even in its extended position the shade will present an accordion-folded formation whereby any contact between the shade and sash pane will be a line contact between a folded edge of the shade and the pane, and a second sash having a pane and hingedly connected to the first sash at the outside thereof and swingable with said first sash, the shade thus being enclosed between the panes of said two sashes.

2,280,541
SCREEN
Eric Sigfrid Persson, Malmo, Sweden
Application June 13, 1940, Serial No. 340,388
6 Claims. (Cl. 156—14)



1. Screen for windows having a window frame and a window sash movable in said frame, comprising a flexible piece of screen material, and means for attaching one edge of said piece to the frame and the opposite edge to the sash, said screen being bent whereby the attached portion adjacent one of its edges lies in a plane forming an angle of at least 180° with a plane in which the attached portion adjacent its other edge lies in both open and closed positions of the sash, whereby said piece of screen will bulge in a predetermined direction when moving said edges of the piece of screen towards each other.

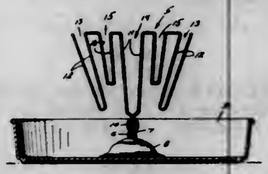
2,280,542
CABINET
Robert W. Rosendale, Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 22, 1940, Serial No. 336,543
6 Claims. (Cl. 189—2)



1. A cabinet comprising a substantially rectangularly-shaped base, corner posts secured to said base at their lower ends, a rectangularly-shaped ceiling secured to said corner posts, said ceiling having molding members each of a length less than the sides of said ceiling, two of said corner posts cooperating with one of said molding members and said base to form a door opening, a rear wall and side walls formed of interfitting box and cover-like sections, a plurality of strips for clamping independently said rear wall and

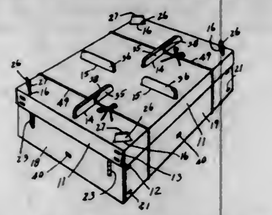
said side walls along their longitudinal edges to said corner posts, said corner posts forming complement of said molding members, and a door for the booth hinged to one of said corner posts.

2,280,543
CIGARETTE HOLDER AND EXTINGUISHER
John T. Saunders, Chicago, Ill.
Application March 14, 1941, Serial No. 383,437
3 Claims. (Cl. 131—235)



1. A cigarette holder comprising a strip of spring metal in ribbon form, upper and lower return bends provided in said strip of metal to provide a series of clips, and including a centrally disposed clip adapted to receive a cigar therein, a pair of semi-rigid snuffer clips forming part of said series of clips and disposed one on each side of said cigar clip and a pair of cigarette retaining and holding clips also forming part of said series of clips and disposed one on each side of said snuffer clips, and means engaging one of said lower return bends to support said clips when so bent, in an upright position with the remainder of the strip free.

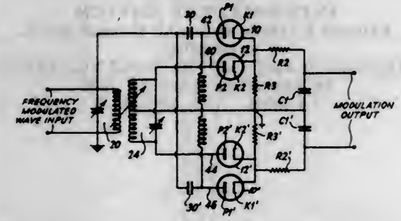
2,280,544
CHICK BOX STRUCTURE
Norbert F. Schaefer, Indianapolis, Ind., assignor to Anderson Box Company, Indianapolis, Ind., a corporation
Application December 15, 1938, Serial No. 245,863
5 Claims. (Cl. 229—6)



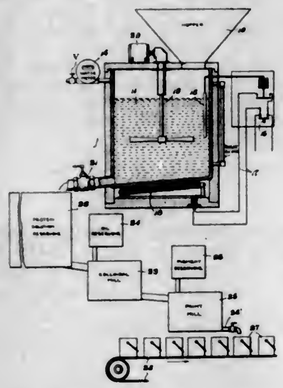
1. In a chick box, a body portion, side and end walls arranged in box formation, the body portion having a tendency to sag centrally when the box is loaded, partition means extending from one wall to an opposite wall, and chick toe pinch prevention formation on the lower portion of the partition means including an extension of said means having a lower and body portion engaging edge conforming to the body portion sag for bowing the body portion to conform initially to the potential sag thereof.

2,280,545
DIODE PHASE DETECTOR
Robert E. Schock, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application June 18, 1940, Serial No. 341,109
8 Claims. (Cl. 250—27)

1. In a system for demodulating frequency modulated waves, an impedance on which said frequency modulated waves to be demodulated are impressed, a pair of rectifiers each having an anode and a cathode, a coupling path between said impedance and the cathodes of both of said rectifiers, a frequency selective circuit coupling said impedance to the anode of one of said rectifiers to impress frequency modulated wave energy on said anode, a non-selective circuit coupling the anode of the other of said rectifiers to said impedance, a single resistance element connected to the cathodes of both of said rectifiers and being included in said coupling path, and an output circuit coupled with said resistance.



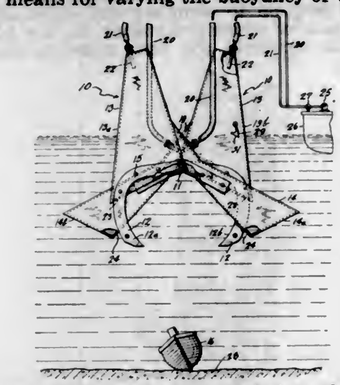
2,280,546
PROTEIN SOLUTION, PAINT, AND METHOD
Elmer B. Schuler, Baltimore, Md., assignor to The White Company, Baltimore, Md., a corporation of Maryland
Application June 17, 1939, Serial No. 279,743
17 Claims. (Cl. 106—135)



1. A stable casein paste paint solution comprising casein completely solubilized in sodium orthophenylphenate.

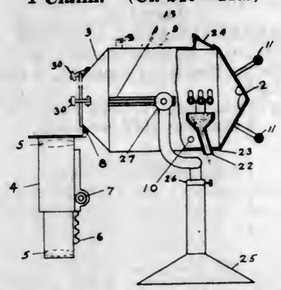
2,280,547
DEVICE FOR RAISING SUNKEN VESSELS
William W. Scofield, Old Greenwich, Conn.
Application October 6, 1941, Serial No. 413,767
8 Claims. (Cl. 114—52)

8. A device of the character described comprising jaws pivoted together to swing to and from open and closed positions and adapted when closed to engage a sunken vessel for raising it, a pair of floats connected to each jaw and located on opposite sides of the pivot so that the buoyancy of one float tends to open the jaw and the buoyancy of the other float tends to close it, and means for varying the buoyancy of the floats



to control the opening and closing of the jaws and raising and lowering of the device.

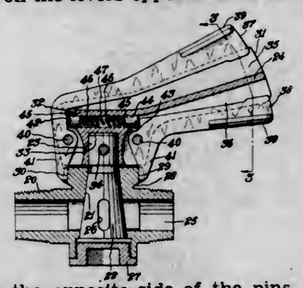
2,280,548
BATTLE LIGHT
William F. Sheffield, Sparrows Point, Md.
Application March 11, 1941, Serial No. 382,811
1 Claim. (Cl. 240—11.2)



In a lamp for providing injurious light rays, the combination of a casing, a plurality of holders attached to the casing and manipulatable therein, a plurality of metal welding rod wires, reels for containing the wires, means for feeding the wires towards one another in plural sets to provide plural unsteady arcs aligned with one another, a funnel mounted on the casing under the place of arcing of the wires, asbestos mats wetted in the funnel and adapted to be struck by the falling melted particles from the arcing and partially wet same to promote their solidification, a tube attached to the funnel for carrying off the said particles after striking the said mat.

2,280,549
LOCKING DEVICE FOR THROTTLE VALVES
Raymond H. Smickle, Belvidere, N. J., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application June 28, 1940, Serial No. 342,846
1 Claim. (Cl. 251—164)

A locking device for throttle valves, comprising a casing having a bore and notches on diametrically opposite sides of the bore, a rotary throttle valve in the bore, a handle for the throttle valve comprising a hub and a grip portion extending laterally of the hub, said handle having slots in the opposite sides thereof extending along the hub and the grip portion, levers in the slots, pins for pivotally securing the levers to the handle, latch portions on the levers lying on one side of the pins to engage the notches, seating surfaces on the levers opposed to each other and



lying on the opposite side of the pins, plungers abutting the seating surfaces, and a spring interposed between the plungers to maintain the latch portions in engagement with the notches.

2,280,550
THERMAL SWITCH
Wayne C. Smitley, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application August 12, 1939, Serial No. 289,897
2 Claims. (Cl. 250—27.5)

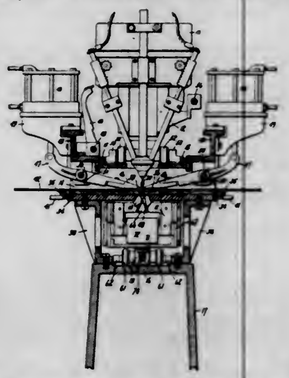


1. A thermal switch comprising a hermetically sealed envelope containing an ionizable gaseous filling, a pair of lead-in conductors extending into said envelope, a substantially U-shaped bimetallic electrode element secured at one end to one of said lead-in conductors, a contact member on the free end of said bimetallic element, the other of said lead-in conductors being provided with an electrode and contact portion located substantially between and extending substantially parallel to the legs of said bimetallic element to sustain a glow discharge between said bimetallic element and said electrode and contact portion, said electrode and contact portion being normally spaced from said contact member but intersecting the path of movement of a portion of said contact member.

2,280,551
WELDING APPARATUS
Gareth G. Somerville, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application August 9, 1941, Serial No. 406,106
8 Claims. (Cl. 219—8)

1. Welding apparatus comprising a nonmagnetic support, means for clamping work parts on said support with their adjacent edges forming a seam which extends along said support, means on one side of said support for establishing an arc between electrodes whose arcing terminals are positioned relatively to one another and said seam between said work parts so that the middle portion of said arc loop is adjacent to and directed along said seam, means on the opposite side of said support for generating a magnetic field which passes through said support and the adjacent edges of said work parts work parts at the gap between them and the on said support across said seam between said

arcing terminals of said electrodes, and means for transversing said last two mentioned means and said support relatively to one another along said seam between said work parts with said



last two mentioned means positioned opposite one another so that said magnetic field passes through said arc loop and controls the alignment and spacing of its middle portion with said seam.

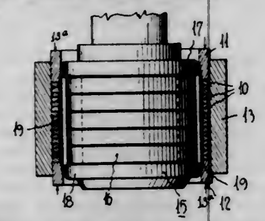
2,280,552

METHOD AND APPARATUS FOR MANUFACTURING PISTON RINGS

Howard E. Somes, Grosse Pointe Park, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan

Application March 23, 1939, Serial No. 263,605

8 Claims. (Cl. 148—10)



1. The method of manufacturing piston rings which comprises forming a plurality of continuous rings of metal hardenable by heat treatment and having complementary side surfaces so that the side of one will substantially uniformly contact with the adjacent sides of others when the rings are stacked, one contiguous the other, stacking the rings to form a composite cylinder, clamping the stacked rings, lowering the magnetic reluctance of the stacked rings by encasing the composite cylinder in an encasement of magnetic material and differentially heat treating and hardening the composite cylinder as a unit from the inside by rapid electromagnetic induction and quenching the radially inner face of the stacked rings whereby the inner face is hardened with respect to the outer portion.

2,280,553

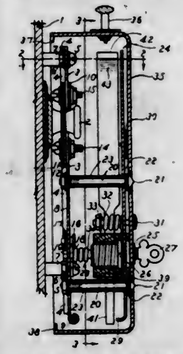
ATTACHMENT FOR SAFE KNOBS

Harry W. Srygley, Abilene, Tex.

Application March 4, 1940, Serial No. 322,144

13 Claims. (Cl. 109—34)

1. A protective covering for safe combination dial pieces, consisting of a base having jaws partly surrounding the combination knob to grip same, a plate disposed on the base serving when in closed position to complete the surrounding of the knob, a housing mounted on the plate adapted to surround the base when in closed



position, both plate and housing being movable together to open position at which the jaws may be withdrawn from the knob, a protective device within the housing, and means for locking the plate and housing to the base.

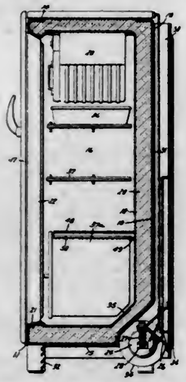
2,280,554

REFRIGERATOR CABINET

Christian Steenstrup, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application September 27, 1940, Serial No. 358,684

6 Claims. (Cl. 62—89)



1. A refrigerator comprising a cabinet having an access opening therein and thermally resistant walls, supporting means for spacing the lowermost of said walls in close proximity to a floor, the inner surface of said walls defining a food storage space, thermally insulated door means for closing said access opening, said space extending substantially the full length, width and depth of said refrigerator, refrigerating apparatus comprising a cooling element for refrigerating said space, a motor compressor unit, and a condenser located outside the rear wall of said cabinet, said unit being disposed outside said storage space and substantially between the plane of the inner surface of the rear wall and the plane of said condenser and below the plane of the inner surface of the bottom wall of the cabinet.

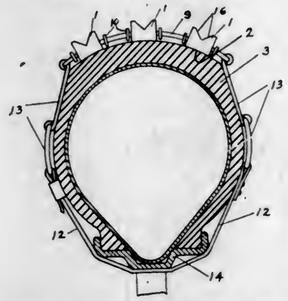
2,280,555

SKID SHOE

Harold A. Sterner, Hanover, Pa., and Eli H. Tschudy, Baltimore, Md.

Application April 4, 1941, Serial No. 386,852

1 Claim. (Cl. 152—228)



A skid-shoe of the class described, comprising a block having an inner surface arranged for surface and coordinated contact with the periphery of a vehicle tire, holes or passages through the block transversely, the outer surface of the block being curved convexedly to make an apex with the side portions to form relatively sharp edges, and V-shaped cuts in the side portions for restricting the length of the edges and provide sharper contacts with the surface on which the skid-shoe runs, and rod means through the holes for holding same in position on the tire of the vehicle with the block edges arranged circumferentially thereon.

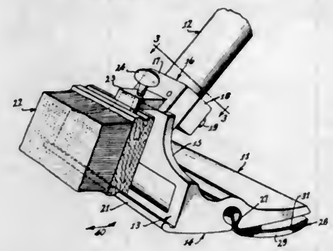
2,280,556

WAX APPLICATOR

Charles D. Stromgren, Los Angeles, Calif.

Application May 2, 1939, Serial No. 271,268

14 Claims. (Cl. 91—39)



1. In a device of the type described, a head member having a substantially flat under surface interrupted by a transverse depression, a pervious bag adapted to contain wax or the like, and means for removably attaching one edge portion only of said bag to said head in said depression to position the wax containing portion of said bag adjacent the under surface of said head member.

14. As an article of manufacture, a wax distributor comprising a pervious flexible material forming a relatively flat pouch permanently closed along a line extending parallel to the major axis of the pouch and spaced from the edge thereof and adapted to contain wax or the like, the portion beyond said line forming an appendage along one side margin for securing the distributor to the head of a waxing device, and wax paste in said pouch.

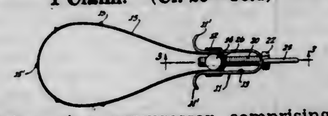
2,280,557

PISTON RING COMPRESSOR

Charles D. Stromgren, Los Angeles, Calif.

Application November 1, 1940, Serial No. 363,954

1 Claim. (Cl. 29—86.4)



A piston ring compressor comprising a U-shaped frame formed of flat metal strip stock having parallel legs and a connecting web portion, the free ends of the legs being curved outwardly; said frame forming an open-sided channel, said web being provided with an opening therein, an oblong nut in said channel provided with an opening registering with the opening in said web, one of said openings being threaded, a shaft passing through said openings and threaded into said threaded opening and means on said shaft whereby the same may be turned to move the nut in the channel, a piston and ring engaging band of thin flexible sheet metal secured to said nut and having its major portion extending beyond said frame, and a minor portion thereof lying in said channel and movable along the channel by movement of said nut, and a narrow reinforcing member connecting the parallel legs at one of said open sides and also serving to limit movement of the band laterally of the frame in one direction.

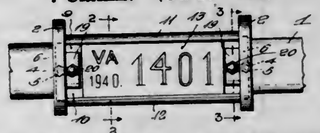
2,280,558

BUMPER AND LICENSE PLATE HOLDER

Arthur S. Thompson, Ontario, Calif.

Application November 6, 1940, Serial No. 364,589

7 Claims. (Cl. 40—130)



1. In combination with a vehicle bumper, a license plate holder comprising end blocks disposed vertically and secured against the outer face of the bumper, ears extending laterally from the inner side faces of said end blocks, a frame for holding a license plate detachably secured to said ears and open at its front for displaying a license plate carried by the frame, and illuminating means carried by the end blocks.

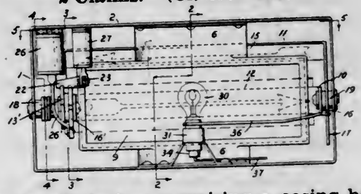
2,280,559

DIRECTION SIGNAL FOR VEHICLES

De Will G. Vaughn, Richmond, Va., assignor of one-half to William Griffith Purcell, Richmond, Va.

Application January 6, 1941, Serial No. 373,351

2 Claims. (Cl. 177—329)



1. A signal device comprising a casing having a display aperture at the front thereof, a pair of substantially U-shaped signaling elements dis-

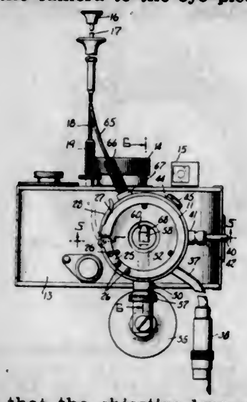
posed in the casing, each signaling element comprising a display blade or plate designed for display at said aperture and having rearwardly extending arms at its ends, means coaxially pivoting the arms of the signaling elements at the respective sides of the casing to adapt the signaling elements to swing upwardly and downwardly, said signaling elements being respectively normally disposed in retracted positions in which one is tilted upwardly at an angle on its pivotal connections to dispose its display blade above the plane of the aperture and the other tilted downwardly on its pivotal connections to dispose its display blade below the plane of the aperture, each signaling element being movable from such position to bring its display blade into signaling position in line with the aperture and the pivotally mounted arms of the signaling elements located at one side of the casing being provided each with an arcuate surface concentric with the pivotal mounting and formed with a locking notch and a stop shoulder, a U-shaped spring having a coiled central portion supported on the pivotal connection of the arms of the signaling elements at one side of the casing and having arms engaging said arms of the signaling elements and exerting pressure thereon for normally holding the signaling elements in retracted position and returning them to retracted position after a signaling action thereof, solenoids for moving the signaling elements selectively to signaling position against the resistance of the spring means, a pivoted locking device automatically engageable with the notch of either signaling element to hold said element in signaling position against the action of the spring means and with the shoulder of said element to limit the retractive movement thereof beyond a predetermined position, and a solenoid energizable for retracting the locking device when in engagement with the locking notch of either signaling element to permit said signaling element to be moved from signaling position to retracted position by the action of the spring.

2,280,560
PROTECTIVE TREATMENT FOR WOOD
Henri Marie André Vautherin, Nancy, France, assignor of one-half to Pierre Schelameur and one-half to Yves Elie Marie Jacques de Liniers, both of Saint Vit, France
No Drawing. Application February 27, 1939, Serial No. 258,857. In France March 28, 1936
3 Claims. (Cl. 21—23)

1. In the preservation of wood, the process which comprises placing wood to be preserved in a closed, heat-insulated, non-aerated space, simultaneously heating said wood both with radiated heat and by direct contact with steam under pressures ranging from about 3 to 7 kilograms per square centimeter until the temperature of the wood is within the range of about 115° to 160° C., the steam in contact with the wood containing a mist of an oily antiseptic substance, then shutting off the direct steam heat and continuing the radiated heat until the transformed color of the wood becomes substantially uniform throughout, whereby the elasticity of the wood is increased and a dry non-oily surface is produced.

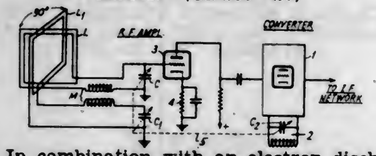
2,280,561
CAMERA ATTACHMENT FOR SURGICAL INSTRUMENTS
Frederick Charles Wappler, New York, N. Y.
Application December 21, 1939, Serial No. 310,370
8 Claims. (Cl. 95—11)

1. The combination with a surgical instrument in which there is a telescope and an electric lamp for illuminating the field of view of the telescope, of a camera, a housing carried by the camera and provided with means for removably connecting the camera to the eye-piece of the tele-



scope so that the objective lens of the camera is receptively positioned with respect to the light emanating from the telescope, and means carried by said housing and operable by the shutter actuator of the camera for increasing the voltage of said electric lamp.

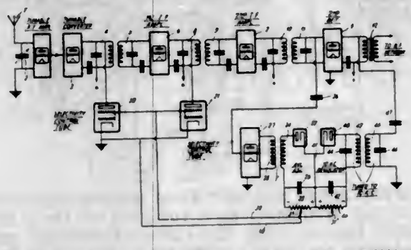
2,280,562
TUNABLE NONDIRECTIVE LOOP CIRCUITS
Roy A. Weagant, Douglaston, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application July 2, 1940, Serial No. 343,539
5 Claims. (Cl. 250—20)



1. In combination with an electron discharge tube provided with at least a cathode, a control electrode and an output electrode, a pair of loop antennae, of equal resistance magnitude and equal signal voltage pick-up, whose planes are arranged in mutually perpendicular manner, means associated with each antenna for tuning it to a desired signal frequency, means reactively coupling said loops sufficiently loosely whereby signal current induced in one of the tuned loop antennae circuits by the second loop antenna is in quadrature with signal current induced in the said one loop circuit by signals directly collected by said one loop antenna, and means for applying the signal voltage developed across one of said loops between the control electrode and cathode of said tube.

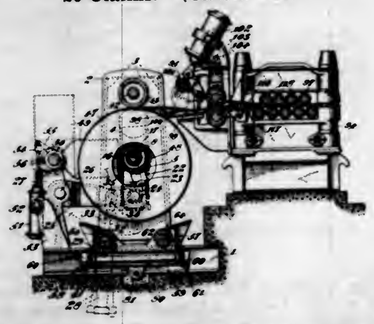
2,280,563
AUTOMATIC SELECTIVITY CONTROL CIRCUIT
Julius Weinberger, Bronxville, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application November 25, 1935, Serial No. 51,363
5 Claims. (Cl. 250—20)

1. In a superheterodyne receiver of the type comprising at least one resonant circuit tuned to the operating intermediate frequency, a demodulator, and means responsive to variations in intermediate frequency energy amplitude for automatically adjusting the degree of selectivity of said intermediate frequency resonant circuit, additional means for regulating the action of



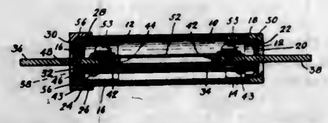
said selectivity control means, said additional means including a device which is responsive to energy of a frequency equal to the difference between the intermediate frequency and signal energy representative of an undesired adjacent channel frequency.

2,280,564
UNCOILING DEVICE
Tom Wilson, Baltimore, Md., assignor to Bethlehem Steel Company, a corporation of Pennsylvania
Application January 2, 1941, Serial No. 372,725
29 Claims. (Cl. 242—78)



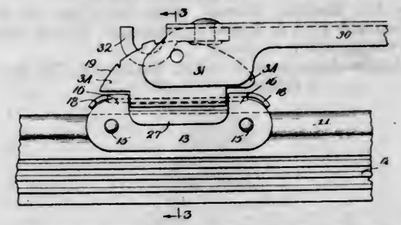
1. A device for uncoiling skept or the like comprising a mandrel, means for conveying a coil of skelp to the mandrel, a feed roll for engaging the coil on the mandrel, means for raising the coil on the mandrel into engagement with the feed roll, and means for rotating the feed roll to uncoil the skelp and advance the same.

2,280,565
CARTRIDGE FUSE
Morris B. Wood, Newbury, Mass., assignor to The Chase-Shawmut Company, Newburyport, Mass., a corporation of Massachusetts
Application November 30, 1940, Serial No. 368,018
27 Claims. (Cl. 200—131)



1. A renewable fuse having an insulating casing, bushings fixed to each end of said casing, and a renewable fuse structure including an insulating supporting bar, end terminals fixed to the opposite end portions of said bar and adapted to receive a fusible element therebetween, a member fixed to one end terminal and having a relatively long cylindrical surface loosely fitting the bore of one of said bushings to provide a relatively long and narrow annular vent opening between the interior of the casing and the exterior end of the bushing, a disc fixed to the other end terminal and arranged to overlie the outer end of the other bushing, and means associated with said other bushing for clamping the disc to said other bushing to maintain the renewable fuse structure in position in said casing, said one of said bushings being free from endwise pressure engagement with said renewable fuse structure when said structure is clamped to said other bushing.

2,280,566
WINDSHIELD WIPER CLIP
Max Zaiger, Swampscott, Mass.
Application October 6, 1941, Serial No. 413,719
2 Claims. (Cl. 15—250)

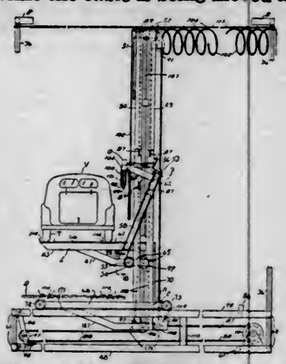


1. A connector for attaching a wiper arm to a wiper blade, comprising a sub-clip fixedly connectable to the blade and having transversely spaced sides and longitudinally spaced bridge members integral with the sides adjacent the ends thereof, said bridge members constituting hinge ears and defining underlying pockets, a rocking clip connectable to the wiper arm and having spaced sides and an integral base received between said hinge ears, a hinge bar disposed between the sides of the rocking clip and having ends projecting into the pockets beneath the hinge ears for pivotally connecting the clip members so that they may freely tilt relative to each other, and a non-resilient bearing plate located between said hinge ears and beneath said clip base to provide a substantially smooth surface on which said base turns during relative rocking movement of the connector parts.

2,280,567
VEHICLE STORAGE DEVICE
Ellsworth W. Austin, Cedar Rapids, Iowa
Application February 6, 1939, Serial No. 254,771
10 Claims. (Cl. 214—16.1)

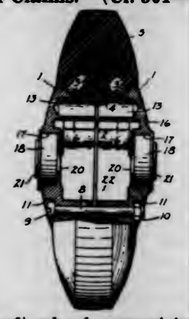
1. In a vehicle storage device, a storage rack arranged to receive motor vehicles, a carriage mounted to travel longitudinally of the rack, an elevator mounted on the carriage to raise and lower, said elevator being adapted for conveying a vehicle for storing on said rack, pulleys carried by said carriage, an operating device comprising a cable, means for moving said cable, said cable being connected to the elevator and extending around said pulleys to cause the carriage to travel and the elevator to raise when the carriage is stopped in its travel, and a stop means for the carriage comprising a latch arranged for selective operation and positioned in the path of move-

ment of the carriage whereby to stop its movement while the cable is being moved and to there-



after effect raising of the elevator upon further movement of the cable.

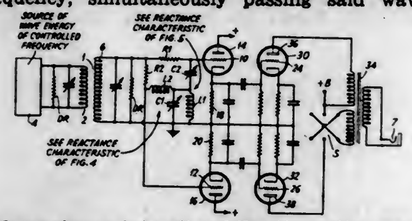
2,280,568
WHEEL
Ray W. Brown, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application July 11, 1940, Serial No. 344,935
4 Claims. (Cl. 301—63)



1. An aircraft wheel comprising a wheel body consisting of two side members, each having a body portion provided with a central axle receiving opening and an inwardly projecting annular tire seating flange, each side member having bolt holes extending through its flange from the inner edge of the flange to the side face of the member, each side member having a tire seating portion on the exterior face of its flange which tapers inwardly from the periphery of the body portion of the side member to the edge of the flange thereof, said tire seating portion having circumferentially spaced recesses, a rubber tire having an interior convex base portion adapted to conform to the tapered seating faces of said side members and to enter the recesses thereof, and transverse bolts extending through said holes for securing said side members with the tire seating flanges disposed edge to edge and for compressing the base portion of the tire between the exterior seating portions of said side members.

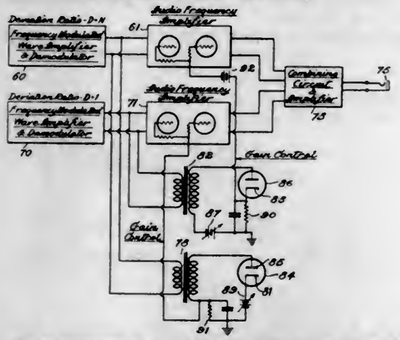
2,280,569
FREQUENCY MODULATION RECEIVER
Murray G. Crosby, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application May 4, 1940, Serial No. 333,257
9 Claims. (Cl. 250—20)

8. The method of detecting frequency modulated carrier waves which includes passing waves of carrier frequency with maximum intensity, attenuating waves of lesser frequency as a function of their frequency spacing from said carrier frequency, simultaneously passing said waves



with maximum intensity while attenuating waves of higher frequency as a function of their frequency spacing from the carrier frequency, and combining the total passed wave energy to produce a resultant wave of varying amplitude and constant frequency.

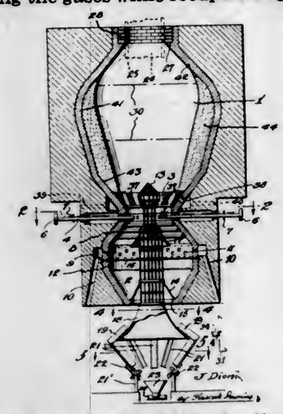
2,280,570
VARIABLE BAND WIDTH RECEIVER
Murray G. Crosby, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application January 8, 1941, Serial No. 373,539
6 Claims. (Cl. 250—20)



1. In a system for receiving frequency modulated carrier waves, at least two parallel modulated carrier wave transmission channels, each channel being adapted to derive the modulation signal from the modulated carrier wave, one of said channels having a relatively wide pass band characteristic thereby to accommodate modulated carrier waves having a relatively wide frequency deviation range, the second channel having a relatively narrow pass band characteristic, a modulation signal utilization network having connections to each of said channels, a rectifier network connected to rectify the modulation signal output of at least one of said channels, and means responsive to the rectified modulation signal for controlling the effectiveness of the connections between said utilization network and each of said channels.

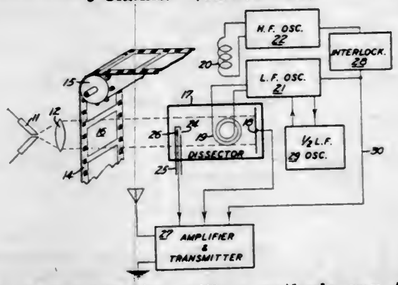
2,280,571
FURNACE
Joseph Dionisotti, Monthey, Valais, Switzerland
Application August 29, 1939, Serial No. 292,498
In Switzerland September 15, 1938
4 Claims. (Cl. 263—29)

1. A lime kiln comprising in combination, a furnace proper having an upper enlarged combustion chamber and a lower air chamber, a throat of restricted cross section connecting said combustion chamber with said air chamber, a charging opening of restricted cross section in the upper portion of said combustion chamber, adjustable means in said charging opening for introducing a mixture of limestone and solid fuel into said combustion chamber, said adjustable means adapted to extend into said combustion chamber to control the heat zone in said chamber, second means in said charging opening for discharging the gases while recuperating the heat,



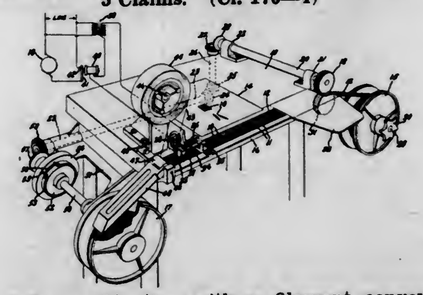
the central portion of said combustion chamber being of greater diameter than the upper and lower portions of said chamber, whereby during operation of said furnace a layer of material collects around the inner wall of the combustion chamber to protect said wall against heat and against friction with the mixture introduced through said charging opening, and means for varying the cross sectional area of said throat to regulate the discharge of materials from said combustion chamber.

2,280,572
SCANNING MEANS AND METHOD
Philo T. Farnsworth, San Francisco, Calif., assignor, by mesne assignments, to Farnsworth Television & Radio Corporation, Dover, Del., a corporation of Delaware
Application November 5, 1934, Serial No. 751,449
9 Claims. (Cl. 178—7.7)



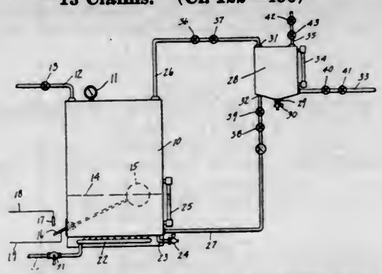
1. In combination with a cathode ray tube having a cathode ray beam adapted to scan a picture field, means for deflecting said beam, comprising a pair of deflecting elements positioned to deflect said beam in two directions, a high frequency oscillator supplying one of said elements, a low frequency oscillator supplying the other of said elements, said oscillators having commensurable frequencies, means for interlocking said frequencies, and an additional oscillator operating at a frequency lower than said low frequency oscillator connected to the output of said low frequency oscillator.

2,280,573
FILAMENT TRANSPORTING METHOD AND APPARATUS
John Flaws, Jr., Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application November 16, 1938, Serial No. 240,779
5 Claims. (Cl. 176—4)



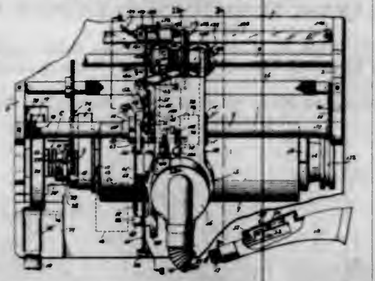
1. In combination with a filament conveyor carrying means for supporting filaments in individually spaced relationship, feeding apparatus comprising means for supporting a coiled flexible strip having pockets therein containing individual coiled filaments, means for uncoiling said strip and for guiding it past a delivery position adjacent said conveyor, and means for causing filaments to be transferred individually from said strip to the supporting means on said conveyor.

2,280,574
BOILER FEED WATER SUPPLY SYSTEM
Harry D. Forse, Anderson, Ind.
Application March 7, 1940, Serial No. 322,703
13 Claims. (Cl. 122—456)



1. In a boiler and supply arrangement, the combination with a boiler and a source of heat therefor for forming steam therein, of an auxiliary reservoir having a drain to the boiler, a pressure line subject to boiler pressure and connected to the reservoir, a vent from said reservoir, a pressure water supply to the reservoir, individual valve means for the drain, pressure line, vent and supply, and means automatically controlling all of said valve means operation, each of said valve means being of normally closed character and constrained toward closed position and the automatic controlling means including a single rotatable controlling element for insuring operation of the respective valves and to open position and for a predetermined interval and in opposition to the constraint.

2,280,575
PHONOGRAPH
George H. Fritzinger, Orange, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application February 18, 1939, Serial No. 257,069
36 Claims. (Cl. 274—17)



10. In a phonograph including a record-supporting device and a translating device conditionable for recording and reproducing, one of said devices being advanceable and backspaceable along the other: the combination of means for measuring the displacement of said one device from any position in its path comprising a movable indicating member; means operative during normal progressive operations of the phonograph for holding said indicating member stationary in the path of its indicating movement at a neutral position therein, and a mechanism placeable into operation in any position of said one device to cause a measuring movement of said indicating member to be produced in proportion to the amount of displacement of said one device from the position occupied by the same when the mechanism is put in operation; means to condition said translating device for reproducing and concurrently to place said mechanism in operation; and means, influenced by said indicating member in the movement thereof beyond said neutral position, for shifting said translating device into recording condition and concurrently placing said mechanism out of operation and restoring said indicating member to neutral position.

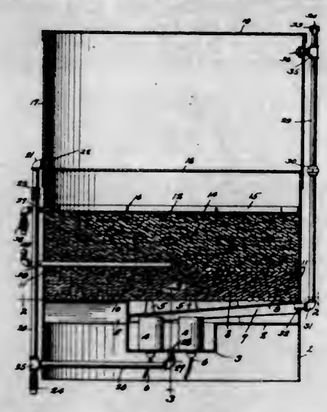
2,280,576
MEANS FOR CHANGING THE EXPRESSION OF THE FACE
István Glück, Budapest, Hungary
Application July 20, 1939, Serial No. 285,618
In Hungary July 20, 1938
2 Claims. (Cl. 128—76)



1. In a device for changing the expression of the face, an insertion adapted to be situated in one of the deflection folds of the face, fastening means adapted to be attached to one or more teeth, and at least one rod connecting the said insertion with the said fastening means and spacing the same from the teeth.

2,280,577
OIL FILTER
John F. Guggolz, Cameron, Tex.
Application April 4, 1941, Serial No. 386,946
5 Claims. (Cl. 210—122.5)

1. A filter for liquids, comprising upper and lower tanks, each having a bottom, the bottom of the lower tank being provided with a depending well, a heater in the well, a gas collector extended over the heater and outwardly to the side wall of the lower tank, means for conducting gas from the outer end of the collector, filtering material in the lower tank, means for spacing the

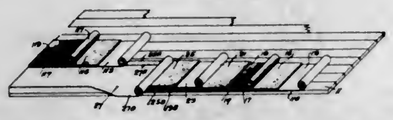


filtering material from the bottom of the lower tank, there being a space for filtered liquid between the upper surface of the filtering material and the bottom of the upper tank, an outlet for the last-specified space and carried by the lower tank, and a supply conduit leading from the upper tank to the well.

2,280,578
AMIDES OF ALIPHATIC POLYCARBOTHIONIC ACIDS AND THEIR PREPARATION
William Edward Hanford and Paul Lawrence Salzberg, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 15, 1938, Serial No. 230,144
14 Claims. (Cl. 260—551)

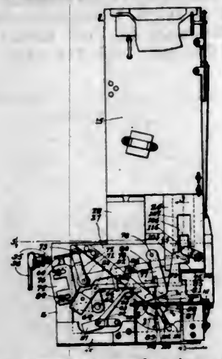
1. An amide of a wholly aliphatic polycarbothionic acid, said acid having a chain of at least three carbon atoms between and contiguous with the thiocarbonyl groups.

2,280,579
ROOFING SURFACE
James Harris Hardy, Artesia, Miss.
Application March 25, 1941, Serial No. 385,045
22 Claims. (Cl. 108—6)



1. A roofing surface laid on an underlying foundation, including, in overlying succession, a sheet of bituminous paper, a layer of mortar, a fibrous bonding material and a sheet of substantially waterproof material, said mortar and sheets being intimately contacted to displace air from therebetween and integrate adjacent surfaces, and means extending through under layers only of said surface embedded in and covered by said mortar, for securing said surface to said foundation.

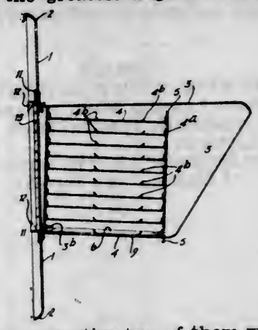
2,280,580
COIN CONTROLLED MECHANISM FOR DISPENSING MACHINES
William A. Harris, Greenville, S. C., assignor, by direct and mesne assignments, to The South Carolina National Bank of Charleston, Greenville, S. C., as trustee
Application September 9, 1938, Serial No. 229,184
4 Claims. (Cl. 194—48)



1. A coin-operated mechanism for a vending machine provided with an operating element to release articles comprising a supporting frame, a lever pivoted intermediate its ends on the frame, a chute directing a coin onto one end of said lever for lowering said end, means on the other end of the lever tending to raise the first-mentioned end of the lever, a ratchet wheel mounted for rotation on the frame, a pawl for retaining the wheel against rotation in one direction, a reciprocating rod having a pawl engaging the teeth of the wheel, operative connections between the rod and operating element for causing reciprocation of the rod and step-by-step rotation of the wheel each time the operating element is actuated to release an article, a spring resisting rotation of the wheel, means on the lever engageable beneath the rod, and means on the rod engageable beneath the first-mentioned pawl so that when the lever is raised said first-mentioned pawl and rod will likewise be raised, a retaining means for holding first-mentioned end of the lever in lowered position, means locking the operating element against actuation, means operated by the lever when lowered for causing release of said locking means, and means carried by the wheel for moving the retaining means to an inoperative position so that the levers will be raised to release the pawls.

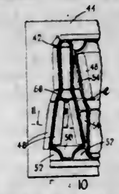
2,280,581
LIGHT-SCREENING DEVICE FOR LAMPS
Vincent Hartley, Greenfield, England
Application October 12, 1940, Serial No. 360,873
In Great Britain October 6, 1939
6 Claims. (Cl. 240—48.4)

1. A light-screening device comprising a series of rectangular plates of identical form flanged on their transverse parallel edges, spacing means comprising U-section strips gripping the plates at their corners to hold them in parallel spaced relation with each other as a single united assembly, tongues pressed up from the plates parallel with the flanged edges to cast shadows on the top surfaces of the plates, a hood enclosing the assembly of plates on three sides, the hood extending forwardly at one end beyond the plates, and an apertured disc carrying the hood and the assembly of plates immediately in front of the aperture, the plates being disposed so that a plane at the greatest angle between but not



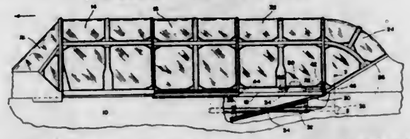
cutting any consecutive two of them will not extend above the highest part of the aperture.

2,280,582
METHOD OF MANUFACTURING NOISE MAKERS
Victor T. Hoeflich, New York, N. Y., assignor to American Merri-Lei Corporation, New York, N. Y., a corporation of New York
Application November 14, 1940, Serial No. 365,582
7 Claims. (Cl. 164—18)



1. In the manufacture of wood noise makers such as clappers, the method which includes cementing relatively heavy sheets of papers on opposite sides of a thin sheet of wood, and then die-cutting a clapper paddle of ornamental outline from the resulting laminated material.

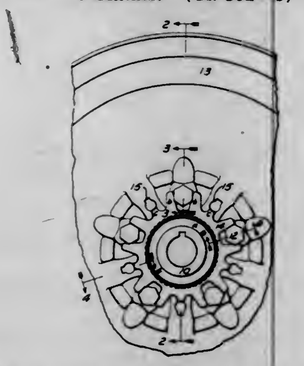
2,280,583
AIRCRAFT COCKPIT ENCLOSURE
Daniel E. Holloway, Inglewood, and James Stanley Smithson, Beverly Hills, Calif., assignors to North American Aviation, Inc., a corporation of Delaware
Application January 11, 1940, Serial No. 313,318
7 Claims. (Cl. 244—121)



1. In an aircraft cockpit fitted with trackways disposed along opposite sides thereof, the combination of a sliding enclosure section movable between limit points representing the effective length of said trackways, a second enclosure section mounted for pivotal movement between open and closed positions, and means of organization between said closure sections causing such pivotal movement to occur in direct proportion to the sliding movement of said first named enclosure section betwen said limit points, the said means comprising a guide disposed in non-

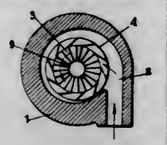
parallel relation to said trackways and a rigid extension of said second enclosure section having operative engagement with said guide.

2,280,584
LOCKING RING FOR WHEELS
Harry J. Horn, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application December 14, 1939, Serial No. 309,135
7 Claims. (Cl. 301—9)



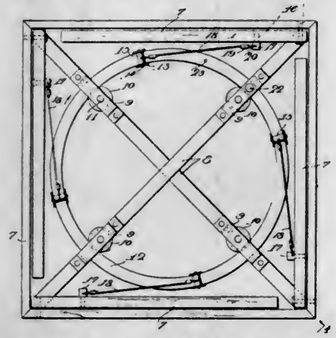
1. The combination with a wheel body having a plurality of circumferentially spaced openings for the reception of securing means, of a locking ring comprising an annular base portion provided with a plurality of radially extending arms, means for securing certain of said arms to said wheel body, others of said arms being arranged in pairs with the arms of each pair located on opposite sides of an opening for the securing means, adjacent edges of each pair of arms diverging outwardly from the center of the locking ring, said last mentioned arms being resilient and extending away from the wheel body at an inclination thereto.

2,280,585
EXPANSION TURBINE FOR LOW TEMPERATURE PLANTS
Peter Kapitza, Moscow, Union of Soviet Socialist Republics
Application November 3, 1938, Serial No. 238,699.
In the Union of Soviet Socialist Republics September 16, 1938
3 Claims. (Cl. 62—123)



1. An expansion turbine for low temperature refrigerating plants having a working medium entering said turbine at a low temperature and having considerable density at the temperatures and pressures existing in the turbine rotor comprising, a shaft, a rotor attached to the shaft, means for utilizing the work done by the expansion of the working medium and by the centrifugal forces in the working medium comprising radially disposed single action blades directing the working medium from the periphery to the center of the rotor, means for feeding the working medium to the periphery of the rotor comprising a spiral-formed channel, and means circumferentially spaced around the periphery of the rotor for guiding the working medium between said blades.

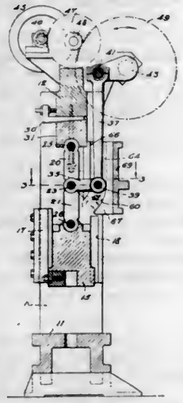
2,280,586
FOLDABLE LEG TABLE
Wade B. Kiefl, Uniontown, Ohio
Application February 26, 1940, Serial No. 320,922
2 Claims. (Cl. 311—82)



1. In a folding leg table, a flat rectangular shaped top, a plurality of legs hingedly connected to each corner of the top, a pair of crossed diagonally extending strips secured to the under side of the top, a U-shaped bracket secured to the underface of each end portion of the said strips, a pin extended vertically through each bracket and superposed portion of the strips, a roller rotatably mounted on each pin in horizontal position between each bracket and the complementary portion of the strips, an annular flat ring disposed centrally of the top and parallel with the underside thereof and extended through the said brackets, the said ring being mounted so that its inner edge is in rotary contact with the said rollers, a plurality of links operatively connecting each of the legs with the said ring so that rotation of the ring in one direction will swing the legs to collapsed positions against the underside of the top and rotation of the ring in the reverse direction will extend the legs to top supporting positions, a latch element slidably mounted on one of the brackets adapted to engage an aperture in the said ring in depressed position for locking the legs in collapsed arrangement, and a spring mounted on the latch element yieldingly urging the same to a depressed ring locking position.

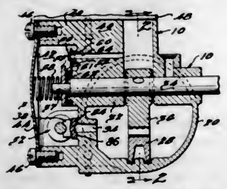
2,280,587
PRESS
William Klocke, Woodhaven, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a corporation of Delaware
Application March 20, 1941, Serial No. 384,339
5 Claims. (Cl. 74—38)

1. A mechanical type press having a long and absolute dwell at the bottom-of-the-stroke position of its reciprocatory tool-carrying slide, in a continuing cycle, comprising a frame, a reciprocatory tool-carrying slide, toggle-levers connecting said slide to said frame, a driving rod and means for reciprocating it, a link connecting said driving-rod and said toggle-levers, and a guide for said link, said guide having an arcuate portion on a radius corresponding to the length of said link, constructed and arranged to guide said link while said toggle levers are in alinement and



said driving rod continues its movement through a part of its cycle of movement.

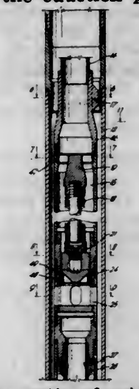
2,280,588
FLUID MOTOR
Frank W. Knott and Bernt Garlius, Detroit, Mich.
Application February 26, 1940, Serial No. 320,760
4 Claims. (Cl. 121—159)



1. In a fluid motor having first and second members relatively movable through a predetermined stroke under the influence of a fluid pressure differential, means for admitting fluid pressure to and exhausting fluid pressure from said motor including a fluid passage, a first reversing valve means actuated by and in accordance with the relative movements of said members, a second valve means operably responsive to an operation of said first valve means for reversing said fluid pressure differential, and means rendered effective by a part of one of said valve means for closing said passage so as to stop said motor.

2,280,589
PNEUMATIC PUMP
Granville S. Knox, Los Angeles, Calif.
Application June 23, 1938, Serial No. 215,373
33 Claims. (Cl. 103—234)

1. A gas lift pumping unit for wells comprising means defining an entering passage for the entry of well fluid, means defining an eduction passage through which the fluid may be elevated to the surface, means defining a gas passage through which gas under pressure may be supplied to the eduction passage, a liquid valve controlling ingress through the entering passage, and a gas valve controlling flow of gas from the gas passage to the eduction passage, said gas valve being responsive under varying pressure conditions to the ratio of pressures in the gas and eduction passages reaching a predetermined value which does not change under variation of pressure conditions to open the gas passage to release gas therefrom into the eduction passage and being

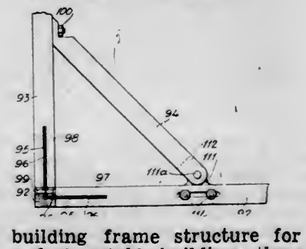


responsive to the ratio of said pressures falling below a predetermined value to close.

2,280,590
PROCESS FOR THE PRODUCTION OF TITANIUM SOLUTIONS
Ignace Joseph Krchma, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 7, 1938,
Serial No. 233,749
17 Claims. (Cl. 23—117)

6. Method for recovering titanium values contained in residues obtained from titaniferous ore solutions which comprises heating ground titaniferous ore with concentrated sulfuric acid in admixture with a small amount of a compound of a metal selected from the group consisting of antimony, arsenic, copper and tin to initiate a reaction between the ore and acid, dissolving the resultant reaction mass in aqueous media, adding to this solution at least sufficient amount of a sulfide compound to form substantially completely the sulfide of the metal previously admixed with the ore and acid, allowing the thus-formed sulfide to settle out of suspension simultaneously carrying down suspended solid matter contained in the said solution, separating the thus clarified supernatant liquor from the settled residue and admixing a major portion of the said residue together with an additional smaller amount of the said metal compound to a subsequent ore-acid mixture.

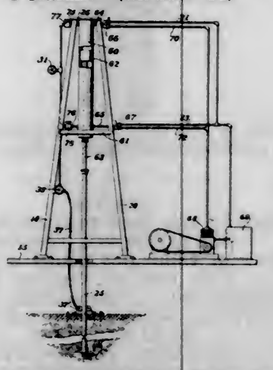
2,280,591
BUILDING FRAME STRUCTURE
Filip Ludvig Lang, Waxio, Sweden
Application July 12, 1938, Serial No. 218,852
In Sweden July 14, 1937
2 Claims. (Cl. 20—2)



1. In a building frame structure for walls, floors and roof of portable buildings, three frame

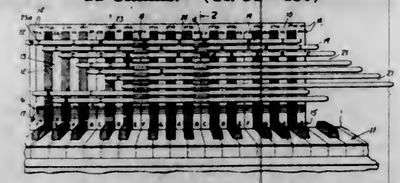
elements, one of said elements being slotted, a fitting of angular form and including two L-shaped parts disposed perpendicularly to one another, a bolt securing the angle of the fitting in the slot of said slotted element, and bolts pivotally connecting the two other of said frame elements to each of the shorter legs of the fitting whereby the several elements may be folded together in compact relation.

2,280,592
SOIL TESTING DEVICE
Frederic Le Mieux, Jr., New Orleans, La.
Application August 16, 1939, Serial No. 290,475
4 Claims. (Cl. 265—14)



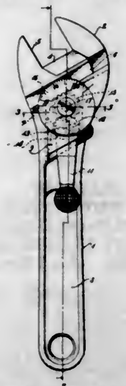
1. A soil substrata testing device having an elongated testing means adapted to be driven into the soil, said means being of substantially uniform cross section with the dimensions of any section through said means being at least equal to the dimensions of the corresponding next lower section through said means, said means having its surface in engagement with the soil including all the strata tested, means to drive said testing means through the substrata in more than one direction, means to supply a controlled driving force for said driving means to maintain a positive control of the movement of said testing means in each direction, and means to measure the driving force as said testing means is moved in each direction whereby from a knowledge of said values an accurate prediction of the characteristics of said substrata can be made.

2,280,593
HARMONIC SLIDE RULE
Dominick A. Maffei, Bayside, Long Island, N. Y.
Application February 19, 1941, Serial No. 379,606
11 Claims. (Cl. 84—480)



1. In a harmonic slide rule of the class described, a support having thereon a plurality of spaced notations representing a chromatic sequence of notes over a span of at least one octave, and a slide member in slidable engagement with said support and movable along a path extending in the general direction of said notations, said member having thereon a chord insignia representing the designation of a predetermined chord, and a plurality of markings spaced for cooperative registry with said spaced notations in accordance with and limited only to the tone intervals of said chord, said markings being disposed along a line parallel to said path, substantially the entire extent of said member along said line being unobstructed and exposed to view.

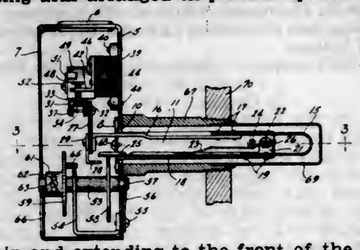
2,280,594
ADJUSTABLE WRENCH FOR NUTS
Francesco Malagrino, Milan, Italy, assignor to Morini & Rossi, di Morini, Amadori & C., Milan, Italy, a firm
Application November 10, 1939, Serial No. 303,881
In Italy November 10, 1938
2 Claims. (Cl. 81—143)



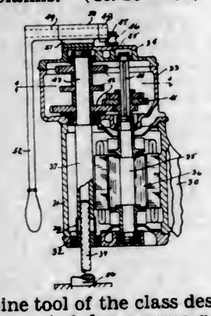
1. An adjustable wrench having a mouth opening substantially in the direction of the axis of its handle comprising, a fixed jaw, a shank portion integral therewith, a movable jaw, means for mounting said movable jaw for reciprocal movement with respect to said fixed jaw, said movable jaw including a milled surface and a rack disposed side by side on one surface thereof, a pinion on said shank in engagement with said rack and adapted to actuate said movable jaw therethrough, means presenting a milled surface adapted for cooperation with the milled surface of said movable jaw to lock the same against movement, and cam means mounted in the shank for moving said last-named means to and from locking position, the number of teeth per unit length of the milled areas being substantially in excess of the number of teeth in a corresponding unit of length of the rack.

2,280,595
CONTROL DEVICE
Homer E. Malone, Milwaukee, Wis., assignor to Perfex Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application July 29, 1939, Serial No. 287,263
17 Claims. (Cl. 200—139)

1. In a control device, a base, control means supported thereon, a generally U-shaped thermal element for operating said control means extending outwardly and perpendicularly from the rear of the base, a control operating arm secured to one leg of the thermal element, adjusting means on the base for adjusting the temperature value at which the thermal element operates the control means, an adjusting arm controlled by the adjusting means secured to the other leg of the thermal element, said operating arm and said adjusting arm arranged in parallel spaced relationship and extending to the front of the base, and spring means arranged for normally biasing said adjusting arm against said adjusting means.

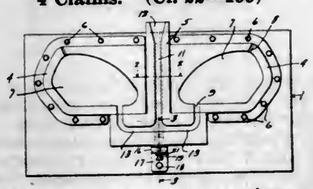


2,280,596
MACHINE TOOL
George K. McKee, Cincinnati, Ohio, assignor to The Avey Drilling Machine Company, Covington, Ky., a corporation of Ohio
Application March 9, 1940, Serial No. 323,181
7 Claims. (Cl. 10—136)



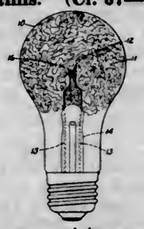
1. In a machine tool of the class described having a spindle mounted for reverse rotation and reverse axial translation, a reversible motor for rotating the spindle, and a manually rotatable rack and pinion mechanism for translating the spindle, the combination of a lever for operating the rack and pinion mechanism, the connection of the lever with the rack and pinion providing a small amount of lost motion for the lever, a reversing switch for controlling the rotation of the motor, an arm pivotally mounted for actuating the switch, a cam associated with and operated by the lever, and a member axially movable by the cam and lever during the movement of the lever to take up the lost motion between itself and the rack and pinion for actuating the arm to operate the switch and rotate the motor in a forward direction prior to the actuation of the rack and pinion mechanism by the lever.

2,280,597
MOLD GATE
Henry E. McWane, Lynchburg, Va.
Application May 10, 1938, Serial No. 207,125
4 Claims. (Cl. 22—155)



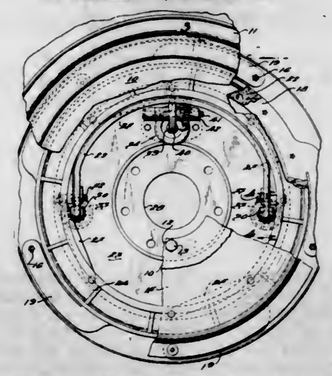
1. A casting device comprising a base member, a mold body fixed to the base, a slot in the base, a block slidable in the slot, said block interfitting with said slot so as to form a guideway for retaining the block in a fixed path to and from said mold body, a gate mounted on the block, and resilient means for maintaining the gate against the mold member.

2,280,598
FLASH LAMP
George H. Meridith, Cleveland, Ohio, assignor to General Electric Company, a corporation of New York
Application June 9, 1939, Serial No. 278,288
3 Claims. (Cl. 67—31)



2. A flash lamp comprising a sealed container having an oxidizing atmosphere therein, a quantity of filamentary combustible material loosely arranged throughout the space within said container, and ignition means disposed in said container within effective ignition range of said combustible material, said ignition means comprising an electric energy translation element at least a portion of which is provided with a coating of fulminating substance, said fulminating substance comprising a powder admixture consisting essentially of magnesium, zirconium and potassium perchlorate in the approximate proportions by weight of between 8 to 26 per cent of magnesium, 42 to 52 per cent of zirconium and 32 to 40 per cent of potassium perchlorate, said admixture ingredients being bonded together by a suitable binder.

2,280,599
VEHICLE BRAKE
Joseph M. Milan, Highland Park, Mich.
Application November 6, 1939, Serial No. 302,966
14 Claims. (Cl. 188—72)



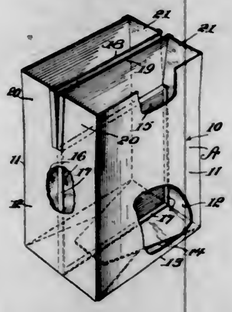
1. A vehicle brake comprising a stationary backing plate, a spaced pressure plate carried by said backing plate, a plurality of curved resilient relatively elongated steel strap links forming resilient torque arms secured to said backing plate

and said pressure plate and adapted to resiliently oppose a decrease in the spacing between said backing plate and said pressure plate, a friction disk driven by a rotating hub and interposed in the space between said pressure plate and said backing plate, opposite ends of each of said links being respectively connected to said pressure plate and said backing plate on opposite sides of said disk, and brake applying means for moving said pressure plate toward said backing plate and into frictional braking engagement with said friction disk and comprising a pivotally mounted yoke secured to said backing plate and operable on said pressure plate to move said pressure plate in the direction of said backing plate, and actuating mechanism connected with said yoke and adapted to effect pivotal movement of said yoke on said backing plate, said links permitting limited circumferential movement of said pressure plate relative to said backing plate on engagement of the pressure plate and friction disk.

2,280,600
MASS CAPABLE OF SWELLING AND THICKENING AGENTS
Richard Müller and Harry Lee, Radebeul, near Dresden, Germany, assignors to Chemische Fabrik von Heyden A. G., Radebeul, near Dresden, Germany, a corporation of Germany
No Drawing. Application April 21, 1938, Serial No. 203,340. In Germany April 24, 1937
14 Claims. (Cl. 260—124)

1. A mass capable of swelling and thickening comprising the precipitation—product of concentrated sulphite—lye with an excessive quantity of a strong mineral acid selected from the group consisting of hydrochloric acid and sulphuric acid, the mass being practically insoluble in water and possessing a limited and reversible swelling capacity.

2,280,601
CONTAINER
Judson R. Otter, Piedmont, W. Va.
Application December 26, 1939, Serial No. 311,021
2 Claims. (Cl. 229—56)



1. A container of the character described, comprising a collapsible body having opposite walls provided with slits extending downwardly from the upper edges, a partition extending across the body below the slits and dividing the same into two compartments, and the partition above the slits having two flaps each extending the entire width of the container adapted to co-operate with the upper ends of the opposite walls of the body to form a separate closure for each compartment.

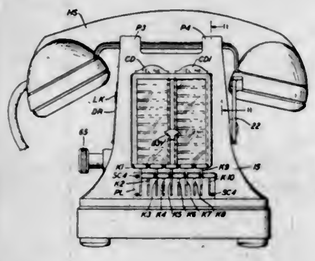
2,280,602
DRYING FIBER STRING MATERIAL
Peter D. Plambeck, Chicago, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application July 19, 1939, Serial No. 285,457
2 Claims. (Cl. 18—54)

2. In the drying of homogenous strings, while in the form of long, continually moving lengths, and which have been prepared from collagenous fibers which have been spun and the string thus formed has been swollen and thereafter deplumped and washed, the step which comprises exposing the wet strings, as long, continuously moving lengths, to an atmosphere having a temperature from about 75° F. to 90° F. and which has a relative humidity from about 83% to 89%.

2,280,603
PREPARING SUTURE MATERIALS
Peter D. Plambeck, Chicago, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application July 19, 1939, Serial No. 285,458
6 Claims. (Cl. 8—128)

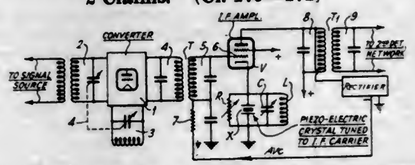
1. In the treatment of twisted strands of collagenous animal fibrous material with alkaline swelling agents to render the strand homogeneous, and thereafter treating the swollen strand with deplumping agents to shrink the strand so that the original angular relationship of the fibers is maintained, the process which comprises immersing the strands in an alkaline solution having a pH of about 10 to 10.5, then immersing the strands in a solution having a pH of about 11 to 11.5, then immersing the strands in a solution having a pH of about 11.5 to 12, and finally immersing the strands in a solution having a pH of about 11.75 to 13.0 and then subjecting the swollen strands to deplumping the temperature during the aforesaid treatment not exceeding the breakdown temperature for collagen.

2,280,604
TELEPHONE CALL TRANSMITTER
Charles D. Richard, West New Brighton, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 2, 1939, Serial No. 302,542
10 Claims. (Cl. 179—90)



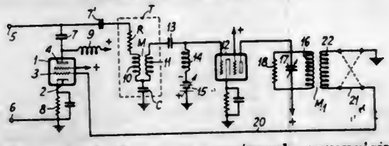
2. In a call transmitter, a motor, a code element, an escapement device actuated by said motor for actuating said element step-by-step, a contact, a pulsing cam, and a clutch actuated under control of said element for operatively connecting said pulsing cam to said motor for actuating said contact.

2,280,605
PIEZOELECTRIC CRYSTAL FILTER CIRCUIT
Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 7, 1939, Serial No. 249,751
2 Claims. (Cl. 179—171)



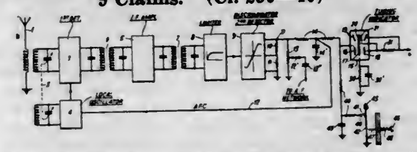
1. In an amplifier of modulated carrier waves, a tube having at least a cathode, control electrode and output electrode, a modulated carrier output circuit coupled to the output electrode of said tube, a network for producing exaggeration of the carrier with respect to the modulation side band frequency components, said network comprising a parallel resonant cicuit, tuned to the carrier frequency of applied carrier waves, arranged in the space current path of said tube between said cathode and a point of invariable potential, said resonant circuit being of substantially low resistance, a piezo-electric crystal connected in shunt with said resonant circuit and tuned to said carrier frequency, a purely resistive element, connected between said cathode and said point, arranged in shunt with each of said crystal and resonant circuit, a resonant modulated carrier input circuit connected between said control electrode and said point whereby voltages of said modulation side band frequency components developed across said exaggeration network are applied in substantially uniform manner upon said control electrode in degenerative sense thereby to provide at said output circuit a substantially uniform decrease of said components' amplitudes with respect to the carrier frequency and means for adjusting the resistance of said resistive element to such a large value that said uniform degeneration of said components is greatly increased thereby greatly to increase the relative exaggeration of said carrier amplitude while maintaining said components at a substantially uniform decreased amplitude.

2,280,606
ELECTRONIC REACTANCE CIRCUITS
Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 26, 1940, Serial No. 315,687
7 Claims. (Cl. 250—40)



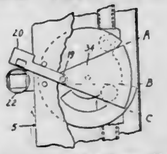
6. In a high frequency network comprising a pair of terminals adapted to be connected across a high frequency circuit whose frequency is to be controlled, an electron discharge tube having input and output electrodes, means connecting the tube output electrodes between said terminals, a reactive path connected between the said terminals, said path comprising a resistor in series with a reactance network, said resistor having a resistance sufficiently high in comparison with the impedance of said reactance network to assure current through the latter having a phase and magnitude determined substantially solely by the resistance of said resistor over a range of frequencies, said reactance network comprising a transformer in series with a condenser the mutual inductance between the transformer windings and the condenser being resonated to a predetermined high frequency, means for deriving from said reactance network a high frequency voltage in quadrature with the high frequency voltage between said terminals, means for applying said quadrature voltage to said tube input electrodes whereby there is developed between said terminals a reactive effect whose magnitude and sign are determined by the extent and sense of frequency difference between the frequency of the voltage from said circuit and the said predetermined frequency.

2,280,607
FREQUENCY MODULATION RECEIVER TUNING INDICATOR
Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 29, 1940, Serial No. 354,626
9 Claims. (Cl. 250—40)



4. In a frequency modulation receiver provided with a discriminator network whose output voltage has a direct current voltage component which is zero upon accurate adjustment of the tuning to the station being received, indicating means responsive to said component for providing a visual indication of said accurate tuning, means for varying the amount of said indication produced per volt of said direct current voltage, additional means for intermittently actuating said varying means to render said indication variation intermittent, said indication being unaffected by said intermittent actuation only when said direct current voltage component is zero and said receiver is accurately tuned.

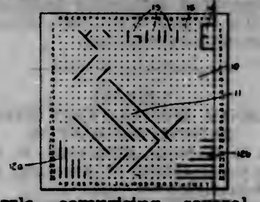
2,280,608
MULTIPLE LENSED MOTION PICTURE CAMERA
Earl L. Tornquist, Elmhurst, Ill., assignor of one-half to John A. Dienner, Evanston, Ill.
Application December 23, 1939, Serial No. 310,797
5 Claims. (Cl. 88—16)



4. In a camera of the class described, a casing, a film track in the casing, a pair of lenses mounted on the front of the casing and spaced apart along the film track a multiple of frames of the film, a single plate-like shutter disposed in the casing and serving both of the lenses for alternately revealing said lenses, said shutter being mounted on a shaft lying at one side of the film track and extending rearwardly in the casing, a pivoted plate-like mask for selectively revealing

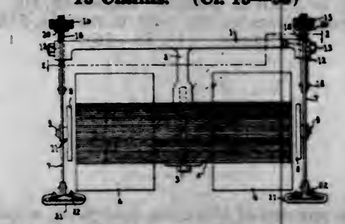
said lenses, said mask lying in said casing in front of and parallel to the shutter and closely adjacent thereto, and a shaft disposed on the said one side of the film track carrying said plate-like mask, said latter shaft extending forwardly through the front of the casing and carrying manual means for adjusting the angular position of the mask.

2,280,609
PUZZLE AND PUZZLE GAME
Marshall I. Williamson, New York, N. Y.
Application September 7, 1939, Serial No. 293,827
6 Claims. (Cl. 273—157)



3. A puzzle comprising several markings grouped together in a predetermined arrangement which is component to an ultimate pattern, said markings overlying a reference field which is symmetrically divided throughout its entire area to indicate comparatively small, mutually similar, geometrical areas, each of which has boundary parts in common with boundary parts of others thereof, the said markings comprehending common boundary parts of said geometrical areas; and several additional markings disassociated and disconnected from the first named several markings and having no connected arrangement relative to one another, but all having characteristics which are definitely related to the said geometrical areas and which adapt them, dimensionally, for fitting into the arrangement of the first named several markings in the selective filling out of the said arrangement into a particular ultimate pattern.

2,280,610
VIBRATORY ELECTRICAL TOOL
Walter H. Young, deceased, late of Detroit, Mich., by James Van Fleet, administrator, Detroit, Mich., assignor, by mesne assignments, to Gene E. Rogers, Cincinnati, Ohio
Original application July 2, 1935, Serial No. 29,526. Divided and this application July 20, 1936, Serial No. 91,632
13 Claims. (Cl. 15—98)



1. A surfacing tool comprising a frame, a pair of laterally flexible vibrators secured to and downwardly projecting from the frame and jointly forming supports for the frame, surface-treating members carried by said vibrators, and means carried by and beneath the frame, and between the vibrators for periodically flexing the vibrators and thereby reciprocating the surface-treating means.

2,280,611
PROCESS FOR PRODUCING ACTIVATED CARBON
Rudolf Adler, London, England
Application March 15, 1940, Serial No. 324,071
In Czechoslovakia October 7, 1937
3 Claims. (Cl. 252—291)

1. A method for simultaneously producing an activated carbonaceous residue and producer gas which comprises supplying solid carbonaceous fuel through a gas producer at a rate materially in excess of that normally required to produce a fixed amount of gas by substantially complete gasification of said solid carbonaceous fuel under optimal conditions of producer operation, and adjusting the air and steam supply with respect to said increased rate of fuel passage to (1) effect only a partial gasification of the total charged fuel, (2) maintain in the incandescent zone of the producer, in spite of said increase of fuel passage, that optimal temperature range which results when there are normal conditions of fuel and air and steam supply and which would ordinarily effect substantially complete gasification of said normal fuel supply and which would normally produce said fixed amount of gas from said normal fuel supply, (3) produce a gas which in quality and quantity corresponds substantially to that which would be produced under said optimal conditions of normal fuel passage and air and steam supply, and (4) yield a residue containing at least 25% of activated carbon.

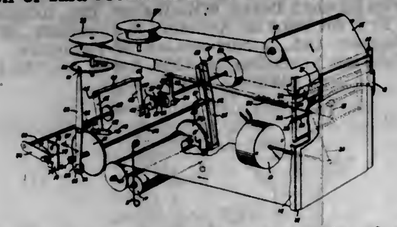
2,280,612
FOOD SERVICE INSTRUMENT
Nicholas Andros, Los Angeles, Calif.
Application May 14, 1938, Serial No. 208,073
2 Claims. (Cl. 30—150)



1. A food serving implement comprising a fork, a spoon, and means pivotally securing the fork and spoon intermediate their ends with the faces of said fork and spoon in spaced opposed relation, said means comprising ears carried by the fork and spoon intermediate their ends and a pivot pin extending transversely through said ears, said ears extending beyond the faces of said fork and spoon and said fork and spoon being bowed in a manner whereby the handles of the fork and spoon are spaced apart adjacent the pivot pin a distance sufficient to accommodate the fingers of the user of the implement in the vicinity of the pivot pin.

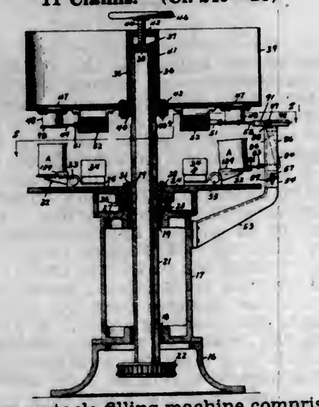
2,280,613
RECORDER
Ralph G. Arey, Swampscott, Mass., assignor to General Electric Company, a corporation of New York
Original application April 7, 1938, Serial No. 200,707. Divided and this application May 11, 1939, Serial No. 273,085
3 Claims. (Cl. 234—68)

1. In a chart recorder of the intermittent marking type having a marking strip and freely movable arm, a movable striker for producing contact between portions of the marking strip and a chart adjacent said movable arm, a power driven reciprocating rocker for oscillating said striker and a resilient connection between said rocker and said striker, the frequency of operation of said rocker and the stiffness of said re-



silient means and moment of inertia of said striker being so selected that natural frequency of vibration of said striker substantially equals the frequency of reciprocation of said rocker.

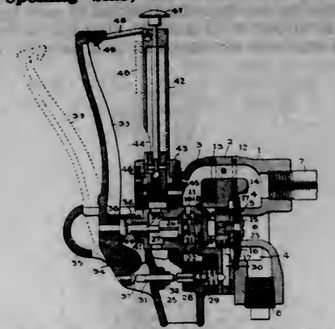
2,280,614
FILLING MACHINE
Harry D. Ayars, Philadelphia, Pa.
Application January 17, 1939, Serial No. 251,284
11 Claims. (Cl. 249—18)



1. A receptacle filling machine comprising supply means, a valve governing the filling of a receptacle from said supply means, said valve having a stationary part and openings therethrough and a rotatable part with openings extending therethrough and adapted to register with first mentioned openings, means for rotating the rotatable part of said valve to full registry of said openings, means for rotating said rotatable part to partial registry of said openings to reduce the flow and to cause the streams therefrom to flow obliquely, and electrical means for rotating said rotatable part for closing said valve.

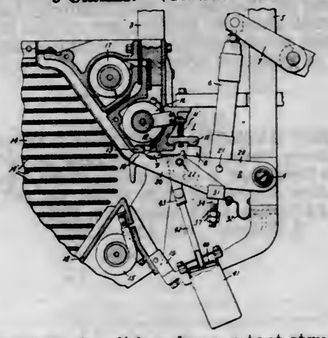
2,280,615
BACKUP VALVE
Wayne A. Baldwin, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey
Application June 13, 1941, Serial No. 397,970
3 Claims. (Cl. 303—51)

1. In a back-up valve for automatic brake systems, the combination of a portable housing having a hand grip and means for attachment of the housing to a brake pipe; a normally closed service valve controlling flow therefrom; an emergency vent valve mechanism also controlling flow from said housing mounted thereon and comprising a normally inactive pilot valve, a large capacity vent valve, and pressure actuated biasing means for the vent valve controlled by the pilot valve, the parts being so arranged that actuation of the pilot valve serves to convert a normal closing bias exerted on the vent valve into an opening bias; an actuator carried by



said housing and shiftable in reverse directions toward and from the hand grip to actuate selectively said service valve and said pilot valve; and yielding means urging said actuator in a direction to actuate said pilot valve.

2,280,616
ELECTRIC CIRCUIT BREAKER
Ralph J. Baskerville, Yeadon, Pa., assignor to General Electric Company, a corporation of New York
Application October 22, 1940, Serial No. 362,211
9 Claims. (Cl. 200—146)

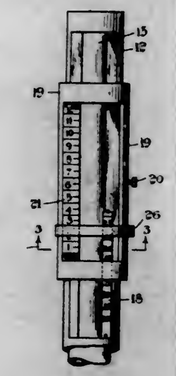


1. Electric circuit breaker contact structure including coacting pairs of main, transfer and arcing contacts, and a pivoted switch arm for the movable main, transfer and arcing contacts comprising spaced members to which said main contact is secured, means for mounting said transfer contact between said members, elongated means carrying at one end said arcing contact pivotally mounted intermediate its ends on said switch arm adjacent to the extremity of said arm, said elongated means at the opposite end extending along said switch arm throughout an appreciable part of the length of said arm, and spring means mounted on said arm for engaging and biasing said opposite end of said elongated means in a direction to cause engagement of said arcing contacts.

2,280,617
MOISTURE DETERMINING APPARATUS
Richard T. Bell, Outremont, Quebec, Canada
Application December 18, 1939, Serial No. 309,302
3 Claims. (Cl. 73—51)

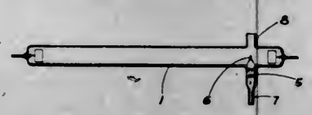
1. Apparatus for determining the bulk specific

gravities of saturated surface dry materials and the moisture content of moist materials of known specific gravity comprising a receptacle provided with a cover having a tubular member extending upwardly therefrom, said tubular member surrounding an opening formed in said cover and being provided with a sight opening, a transparent gauge tube arranged in said tubular member



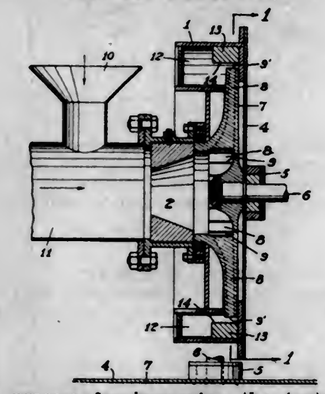
and communicating with the interior of said receptacle, an index plate secured to said tubular member at one side of said sight opening, said index plate being graduated in terms of specific gravity, a cursor slidably mounted on said tubular member for movement longitudinally thereof, and a second gauge or index plate carried by said cursor, said second gauge plate being graduated in terms of moisture content.

2,280,618
ELECTRIC GASEOUS DISCHARGE DEVICE
Raoul Besson, Paris, France, assignor to General Electric Company, a corporation of New York
Application March 23, 1939, Serial No. 263,763
In Switzerland March 25, 1938
3 Claims. (Cl. 176—125)



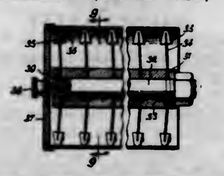
1. An electric gaseous discharge device comprising a sealed envelope containing a rare gas intermixed with a critically small percentage of another gaseous element having a lower ionizing potential than the metastable potential of the rare gas to lower the starting potential of said device and an additional supply of said gaseous element located out of the path of the discharge within said envelope and bonded to another element in such a manner that its gaseous pressure is reduced prior to the initiation of a discharge in said device, to a value substantially equal to the partial pressure of the critically small percentage thereof required for lowering the starting potential of the device, the quantity of said gaseous element evolved from said bonded supply being less than the quantity thereof lost by clean-up during operation of the device whereby said device has the low starting potential characteristic of the gaseous mixture and emits light characteristic of the rare gas during operation.

2,280,619
METHOD AND APPARATUS FOR EFFECTING PARTICLE SIZE REDUCTION
Charles Edward Berry, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application November 26, 1938, Serial No. 242,461
8 Claims. (Cl. 83—11)



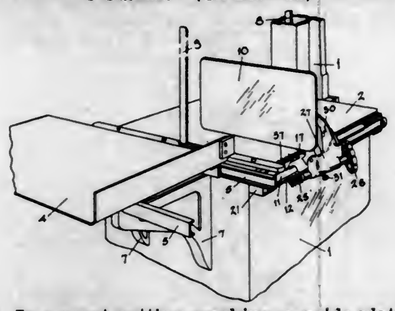
1. A process for improving the texture and fineness characteristics of pigment-useful substances, comprising subjecting said substances while fluid suspended to the attritive and grinding action of a rotor element operating at peripheral speeds ranging from substantially 20,000 to 60,000 ft./min., centrifugally discharging said substances for further grinding and attrition from internal passages within said rotor onto a receiving surface of an annular impact element concentrically disposed with respect to and completely surrounding the peripheral limits of said rotor, said receiving surface being maintained at a constant spaced distance from the peripheral limits of said rotor ranging from .1 to 1.0 inch, and during the treatment of said pigment substances maintaining a gaseous fluid flow through the treating apparatus ranging from about 200 cubic feet per minute to about 2000 cubic feet per minute, a pigment feed rate ranging from about 50 to 2000 pounds per hour and from about 0.0004 to about 0.17 pound of pigment material per cubic foot of gaseous fluid used.

2,280,620
APPARATUS FOR FINISHING TUBULAR ARTICLES
George W. Binns and Frederick J. Theler, Cincinnati, Ohio, assignors to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a corporation of Ohio
Application February 28, 1939, Serial No. 258,986
6 Claims. (Cl. 51—262)



1. An internal bracing member for support during machining of a work piece of flexibility distortable by the necessary pressure of the machining operation, comprising a work piece supporting member having a plurality of pressure members supported for joint axial and radial movement for engagement with the work piece, and means for individually, yieldingly urging said members into engagement with the work piece under a pressure insufficient to distort said work piece.

2,280,621
MEAT CUTTING MACHINE
Vincent G. Biro, Marblehead, Ohio
Application November 25, 1940, Serial No. 366,945
3 Claims. (Cl. 146—88)



1. In a meat cutting machine, a guide plate; a rack bar; an arm for pivotally supporting the plate on the rack bar and locating the plane of the face of the guide plate at right angles to the rack bar; a worm gear meshing with the teeth of the rack bar and supported on the arm, the axis of the worm inclined to the plane of the face of the guide plate and to the rack bar; and a spring pressed handle member connected to the worm gear for meshing and demeshing the gear with the rack and moving the guide plate relative to the machine cutting element.

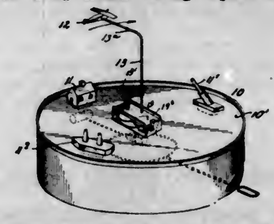
2,280,622
SHOE
Frank Brewin, St. Louis County, Mo., assignor to International Shoe Company, St. Louis, Mo., a corporation of Delaware
Application August 3, 1939, Serial No. 288,125
3 Claims. (Cl. 36—51)



1. A pump comprising an upper having an opening defining edge, continuous elastic means secured to the opening defining edge of the upper, other elastic means at the throat of the pump beneath and adjacent to the throat portion of the upper cooperating with said first means at the throat, said two means acting with the associated portion of the upper to provide an elastic throat, and stitching extending through the upper and the first means throughout a predetermined portion of the length of the latter and spaced from the opening defining edge to substantially prevent stretching of the first means throughout this length.

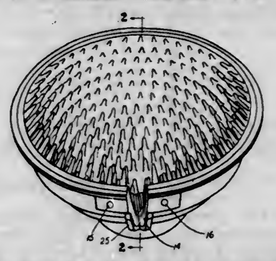
2,280,623
GAME OR TOY OF SKILL
Frank Broomfield, Ridgewood, N. J., assignor of one-half to Cecil L. Wahl, New York, N. Y.
Application June 21, 1941, Serial No. 399,105
1 Claim. (Cl. 273—1)

A game or toy of skill, comprising a cylindrical hollow platform formed with a circular series of recesses, targets loosely borne in said recesses and extended into the hollow of said platform, a rotary spindle centrally mounted in said platform and projecting vertically to a relatively high elevation from said platform and also into the hollow thereof, a horizontal arm rigidly connected to the upper end, and a vertically swinging arm borne by the lower end of said spindle, both said arms being equal in length



to the radial distance of a target from said spindle, said upper arm carrying at its free end a plane simulating an indicator and said lower arm carrying at its free end a striking element, and a vertically swinging loop-shaped lever mounted in the hollow of said platform and formed with an externally operable handle, said loop-shaped lever being adapted to strike against said lower arm when its said striking element is in register with any one of said targets and to thereby knock the latter off said platform.

2,280,624
MASSAGE CAP
Raymond F. Buckley, East Cleveland, Ohio
Application September 6, 1940, Serial No. 355,653
1 Claim. (Cl. 128—67)



A scalp treating implement comprising a bowl shaped body formed of flexible rubber and having a series of inwardly extending fingers formed to protrude from the bowl face thereof, said body having a slotted perimeter, a portion of said perimeter being reinforced about the slot therein, and means for contracting said perimeter whereby the body may be approximately fitted to different size human heads.

2,280,625
TRANSFORMER
Guglielmo Camilli, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application July 28, 1939, Serial No. 287,032
16 Claims. (Cl. 175—358)

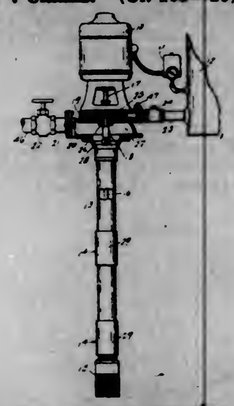
1. A current transformer including a high voltage winding, insulation around said winding, a grounded metal sheath enclosing and closely fitting said insulation, a casing enclosing said winding and its insulation and sheath, said casing having an opening, and terminal leads extending

through said opening from the winding, said in-



sulation and sheath extending around said leads and through said opening.

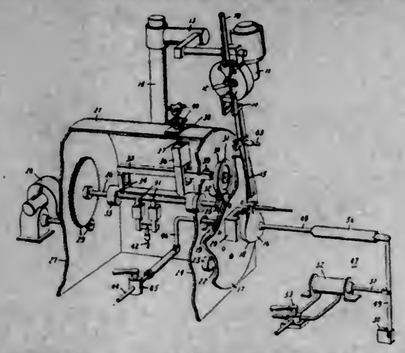
2,280,626
HIGH-LOW PRESSURE PUMPING SYSTEM
Fred A. Carpenter, Berkeley, Calif.
Application November 2, 1940, Serial No. 364,008
7 Claims. (Cl. 103—10)



1. A high-low pressure pumping system comprising a prime mover, a vertical pipe column for delivering water from a lower level, a shaft in said column and driven by said prime mover, and impellers mounted on said shaft within said column; a discharge chamber mounted at the top of said column and communicating directly therewith and having a low pressure discharge line and a low pressure valve for closing and opening said line at will; an impeller and a pumping chamber therefor mounted above and having its intake in communication with said discharge chamber and having a high pressure discharge, and means for operating said impeller; said impeller operating under minimum pressure and minimum fluid delivery conditions when said low pressure valve is open and delivering fluid at high pressure through said high pressure discharge when said low pressure valve is closed.

2,280,627
AUTOMOBILE ARC WELDING APPARATUS
Verni J. Chapman, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application August 9, 1940, Serial No. 351,995
10 Claims. (Cl. 219—17)

9. Welding apparatus comprising a turntable having a cam with a flanged edge portion which is parallel to and corresponds in configuration with a line of welding on a work part positioned relative thereto by the configuration of the work supporting surface of said turntable, a support, means for mounting said turntable on said support for rotation and translation in a plane parallel to a plane of welding including said line of welding, said means including a pair of wheels mounted for axial rotation on said support located on opposite sides of said flanged edge por-



tion of said cam, means including a flange and groove connection between one of said wheels and said flanged edge portion of said cam for holding said flanged edge portion of said cam between said wheels, means for pressing said wheels toward one another into engagement with the opposite sides of said flanged edge portion of said cam and thereby determining the point of welding in said line of welding, and means for imparting axial rotation to at least one of said wheels.

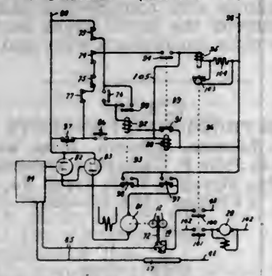
2,280,628
ARC WELDING APPARATUS
Verni J. Chapman, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Original application August 9, 1940, Serial No. 351,995. Divided and this application August 11, 1941, Serial No. 406,387
5 Claims. (Cl. 219—8)



1. An electrode holder comprising a member having a surface adapted to make a sliding engagement with an electrode, another member having oppositely disposed fixed surfaces adapted to cramp and hold opposite sides of one portion of an electrode which has been stressed by bend-

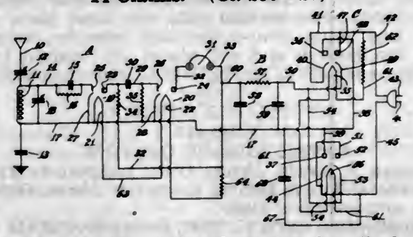
ing to latch another portion thereof against said guide surface, and means for moving said members relatively to one another.

2,280,629
ARC WELDING APPARATUS
Verni J. Chapman, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Original application August 9, 1940, Serial No. 351,995. Divided and this application August 11, 1941, Serial No. 406,388
4 Claims. (Cl. 219—8)



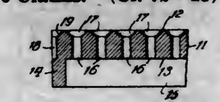
1. Arc welding apparatus comprising a holder for stick electrodes, means including a welding circuit for supplying welding current and voltage to said electrode holder and the work to be welded, means for feeding said holder toward the work when the voltage between an electrode in said holder and the work is greater than a predetermined value and for feeding said holder away from the work when the voltage between an electrode in said holder and the work is less than said predetermined value, means responsive to a predetermined feeding movement of said electrode holder toward the work for opening said welding circuit and maintaining the energizing of said electrode feeding means, and means responsive to a predetermined feeding movement of said electrode holder away from the work for deenergizing said feeding means.

2,280,630
ELECTRONIC CIRCUIT
Harry G. Cisin, Brooklyn, N. Y.
Original application April 26, 1938, Serial No. 204,359. Divided and this application November 10, 1939, Serial No. 303,732
14 Claims. (Cl. 250—27)



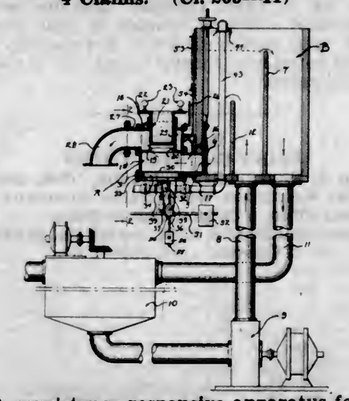
1. In a device of the character described, the combination of an amplifying unit having a high efficiency, low current drain tube including therein an anode, a cathode, and means independent of said cathode whereby said tube may be energized, an output, and an input, a filter, having an output connected with said amplifying unit, an electronic rectifying unit having an input adapted to be connected with a source, and an output connected with said filter, whereby uni-directional current of positive polarity is impressed upon said filter and said amplifying unit, irrespective of whether said rectifying unit is connected with an alternating or a direct current source, connections between the output of said filter and the means for energizing the tube in said amplifying unit, whereby said tube is energized by a direct current, or by a rectified and filtered alternating current, according to the character of the current at the source, and a return line of substantially uniform potential throughout from the cathode of the tube of said amplifying unit to the source, whereby said return line is isolated from the connections for energizing said tube and said cathode is always of substantially uniform potential.

2,280,631
FACING SHEET FOR SOUND ABSORBING MATERIAL
Cyril L. Coffey, Melbourne, Victoria, Australia, assignor, by mesne assignments, to Burgess Battery Company, Chicago, Ill., a corporation of Delaware
Application May 15, 1939, Serial No. 273,649
In Australia June 16, 1938
6 Claims. (Cl. 72—18)



1. A plaster facing tile or panel for the walls or ceiling of an enclosure having a plurality of apertures extending therethrough from the exposed surface thereof, said tile having a plurality of shallow recesses in said exposed surface coinciding with said apertures, the walls of said recesses divering outwardly at a substantial angle to the walls of said apertures to form flaring enlargements of said apertures at said exposed surface.

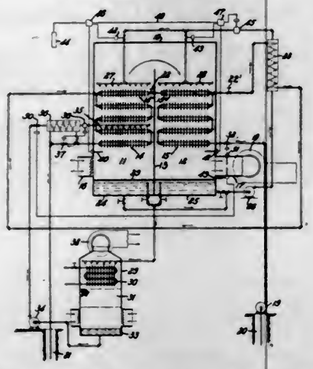
2,280,632
CONSISTENCY REGULATOR
Hervey G. Cram, Appleton, Wis., assignor to P. D. Cram, Appleton, Wis.
Application May 26, 1938, Serial No. 210,141
4 Claims. (Cl. 265—11)



4. A consistency responsive apparatus for pulp comprising, a body having an inlet for receiving pulp and an outlet for the pulp, said body also having an orifice therein between the inlet and the outlet through which the pulp flows, a diaphragm on one side of the orifice, a head on the

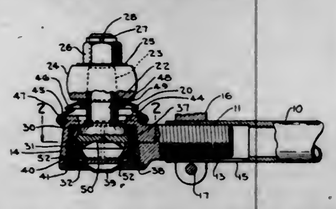
other side of the orifice to cause a frictional resistance to the flow of the pulp through the orifice and thereby create a pressure on the diaphragm, said diaphragm being movable under changes of pressure, an operating mechanism actuated by the diaphragm upon movement of the diaphragm by change of pressure, means for regulating the flow of the pulp to the body, and means for adjusting the position of the head relative to the orifice for controlling the active size of the orifice.

2,280,633
AIR CONDITIONING
Robert B. P. Crawford, Athens, Ga.
Application December 20, 1939, Serial No. 310,229
13 Claims. (Cl. 183—120)



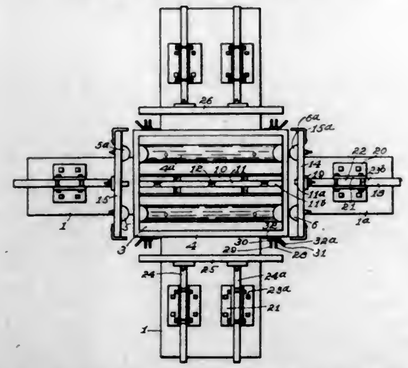
1. A method of conditioning air, which comprises passing a stream of air successively in contact with a first extended surface stream of hygroscopic solution flowing counter-currently to said air stream and with a second extended surface stream of hygroscopic solution flowing concurrently with said air stream, maintaining said streams of hygroscopic solution by supplying hygroscopic liquid to each of said streams at a concentration closely approaching saturation at the temperature of the air stream at the end of the first zone of contact, and passing a stream of a heat transfer medium serially through said zones of contact in heat transfer relation with said streams of hygroscopic solution and counter-currently to said air stream in both said zones.

2,280,634
JOINT CONSTRUCTION
William A. Flumerfelt, Columbus, Ohio, assignor to The Columbus Auto Parts Company, Columbus, Ohio, a corporation of Ohio
Application June 5, 1940, Serial No. 338,977
3 Claims. (Cl. 287—90)



1. A joint construction including a housing having a hollow interior; a stud member having a segmental spherically shaped portion extending into said housing; a second hollow member provided with lubricating passages positioned beneath said stud member and having its exterior surface of spherical shape providing a continuation of the spherical shape of said stud member and adapted to form therewith a substantially hollow ball-shaped configuration adapted to contain a lubricant; bearing means in said housing substantially surrounding said ball-shaped configuration; a flexible integrally formed annular cushion interposed between said bearing means and the interior walls of said housing; and means bearing against and compressing said flexible cushion whereby the latter urges said bearing means into close engagement with said ball configuration.

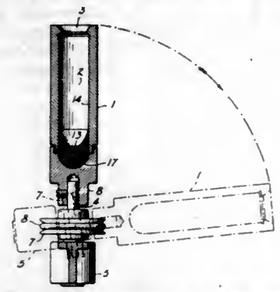
2,280,635
MOLD FOR PRODUCING CONCRETE BLOCKS
William T. Ishman, Oelwein, Iowa, assignor of one-half to John P. Gallagher, Oelwein, Iowa
Application March 2, 1940, Serial No. 321,878
4 Claims. (Cl. 25—121)



1. In combination in a mold for producing concrete blocks, spaced and longitudinally apertured top and bottom plates, a divisional member traversing said apertures vertically independently actuable vertical side and end plates separately movable to and fro to close the gaps between the top and bottom plates at sides and ends, and transversely spaced like sets of solid parallel longitudinal ribs secured around the inner faces of the top, bottom and side plates and having like beveled ends, the inner faces of the ribs being semi-cylindrical whereby, when the top, bottom and end plates are brought together, each set of ribs have their ends in contact.

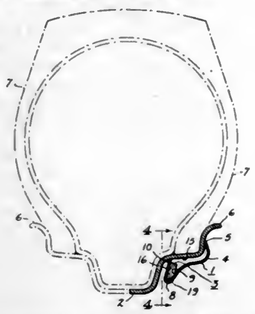
2,280,636
LATEX RUBBER CASTING
Herman T. Kraft, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application April 17, 1940, Serial No. 330,134
6 Claims. (Cl. 18—58)

6. In a method of forming substantially homogeneous, hollow, tubular rubber articles from a rubber latex, the steps which comprise incorporating a suitably compounded rubber latex into the cavity of a mold having the general shape of a tube with one open end, rotating the mold about the axis of the tubular portion, shifting the direction of the axis of rotation from substantially the vertical position to substantially the horizontal position to distribute the latex along the tubular walls of the mold, then



adding a suitable coagulant to the mold, and removing the coagulated article.

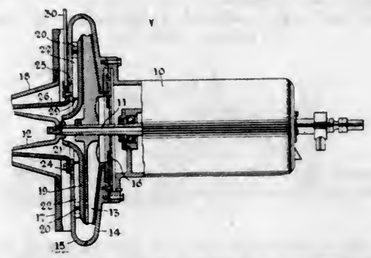
2,280,637
MEANS FOR BALANCING WHEELS
Herman T. Kraft, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application February 6, 1941, Serial No. 377,629
5 Claims. (Cl. 301—5)



1. In combination for balancing a wheel, a metal ring having a continuous reverse bend to provide a circumferentially extending channel, said ring having a series of circumferentially spaced, generally radial slots in one wall of the channel, and an elongated arcuate weight receivable within the channel and having a lateral projection receivable within one of said slots to prevent circumferential movement of the weight relative to the ring.

2,280,638
BURNER APPARATUS
Alonzo W. Ruff, York, Pa., assignor to York Oil Burner Co., Inc., York, Pa., a corporation of Delaware
Application September 18, 1940, Serial No. 357,324
7 Claims. (Cl. 158—77)

1. In burner equipment for use with a combustion chamber—the combination with a fuel discharge nozzle adapted to deliver fuel into the combustion chamber; a fan; a shell encasing said fan and having a central annular air outlet; and an air nozzle in registry with said outlet and surrounding said fuel nozzle; whereby said fan is adapted to discharge air from said shell through said outlet and air nozzle and into the combustion chamber; of a plurality of flexible vanes arranged within the fan shell in the path of air flow from the fan to the shell outlet; and means engageable with said vanes for flexing the same for controlling the directional movement of the air delivered to the air nozzle

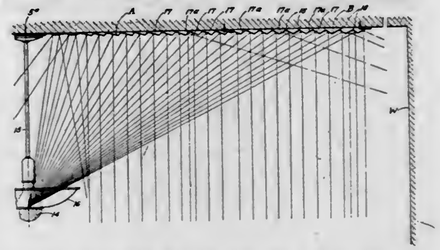


between the limits of a spiral movement of selected pitch and a rectilinear movement to thereby control the shape of the burner flame with respect to the shape and dimensions of the combustion chamber.

2,280,639
COMPLEX COMPOUNDS OF QUINATES AND DIURETICS
Robert S. Shelton, Mariemont, Ohio, assignor to The Wm. S. Merrell Company, Reading, Ohio, a corporation of Delaware
No Drawing. Application July 22, 1939, Serial No. 286,031
3 Claims. (Cl. 260—253)

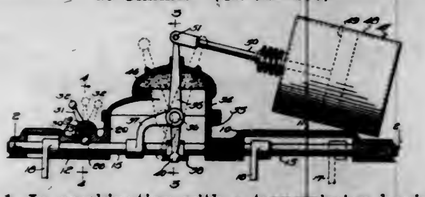
1. Double salts of a compound of the class consisting of non-toxic alkali and alkaline earth metal quinates with a xanthine diuretic.

2,280,640
LIGHT REFLECTING AND DISTRIBUTING CEILING STRUCTURE
Edward Shockey, Canton, Ohio, assignor to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey
Application November 29, 1938, Serial No. 242,965
4 Claims. (Cl. 240—103)



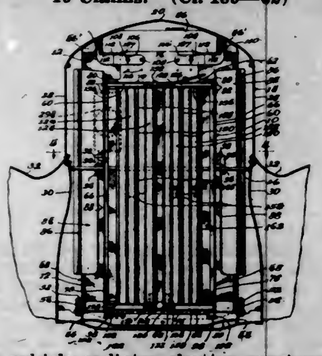
1. In combination, a ceiling, a plurality of spaced light sources each adapted to emit non-parallel light rays supported below said ceiling, a plurality of generally flat light reflecting and distributing surfaces on said ceiling, said surfaces being so disposed that one of said light sources is directly below the center of each of said generally flat reflecting and distributing surfaces, and each of said surfaces having angularly disposed reflecting areas extending around its center in straight lines, some of said areas being positioned to direct light from the directly below source in a substantially vertically downwardly direction and others of said areas being positioned to direct light from adjacent light sources substantially vertically downwardly.

2,280,641
TRANSMISSION SHIFTING MECHANISM
Herbert C. Snow, Auburn, Ind., assignor to Automatic Shifters, Inc., Richmond, Va., a corporation of Virginia
Application December 5, 1938, Serial No. 244,089
19 Claims. (Cl. 74—477)



1. In combination with a transmission having at least three members shiftable for providing different gear ratios, a pair of motion transmitting connections one connected to a pair of said shiftable members and the other connected to at least one other shiftable member, said other shiftable member being arranged in a plane different from that of said pair of shiftable members, a lever perpendicular to the plane of said pair of shiftable members for simultaneously transmitting an actuating force to said connections, each shiftable member being provided with a notch, a plurality of locking elements each engageable in one of said notches, and control means for said locking elements operable independently of said first named means selectively movable to a plurality of positions and operative in each position for holding all but one of said locking elements in its associated notch and for releasing the remaining locking element whereby the shiftable member associated with such remaining locking element will be moved upon the application of such force.

2,280,642
RADIATOR AND RADIATOR SHUTTER ASSEMBLY
William C. Agerell and Arthur C. Mueller, Chicago, Ill., assignors to Pines Winterfront Company, Chicago, Ill., a corporation of Delaware
Application June 23, 1938, Serial No. 215,504
19 Claims. (Cl. 189—62)



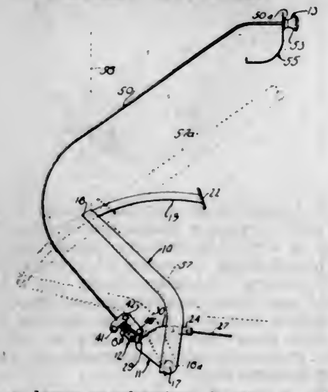
4. A vehicle radiator shutter construction, including in combination, a frame, a plurality of pairs of shutter elements, each pair having adjacent edges hinged to each other, means supporting a first element of each pair upon said frame, means including guides carried by the frame and projections carried by the second element of each pair adapted to slide therein for guiding the movement of said second element, and means for operating the shutter elements.

2,280,643
AMUSEMENT APPARATUS
John F. Courtney, Florence, S. C., assignor of one-half to Curtis J. Velare and one-half to Elmer C. Velare, both of Chicago, Ill.
Application April 4, 1941, Serial No. 386,911
15 Claims. (Cl. 272—51)



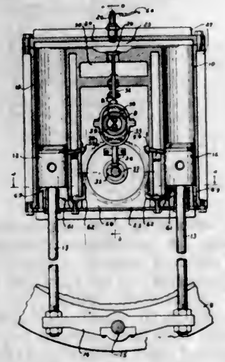
3. In amusement apparatus, a tower, an oblique support rotatably mounted upon the tower, means to rotate the support, large wheels mounted upon the support near its outer portions and extending radially beyond the oblique support for a substantial distance, said large wheels being disposed upon one side of the support, means to rotate the large wheels upon their axes, and vehicles mounted upon the large wheels.

2,280,644
EMERGENCY FOOT BRAKE LEVER
Dorman B. Dickerson, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application July 21, 1941, Serial No. 403,252
3 Claims. (Cl. 74—540)



1. In a lever mechanism having a pivotally mounted lever, clutching members for holding said lever in an adjusted position, one of said clutching members being movable with said pivoted lever, a flexible wire release member, and a conduit for said release member, the improvements which comprise a mounting construction having co-extensively arranged members, each of said members having angularly extending legs, means pivotally mounting one end of the other clutching member to and between adjacent legs of said co-extensive members for movement into and out of engagement with said one clutching member, means on the other adjacent legs of said co-extensive members for clamping said conduit therebetween, a clevis straddling and being pivotally connected to the other end of said other clutching member, the web of said clevis being apertured to slidably receive one end of said flexible wire therethrough, enlarged abutment means on said one end of the flexible wire for engagement with the web of said clevis whereby said other clutching member is moved out of engagement with said one clutching member by said flexible wire, and resilient means embracing said flexible wire and being seated between the web of said clevis and said clamping means for normally maintaining said clutching members in engagement, said clevis sliding on said flexible wire against said resilient means to permit movement in one direction of said one clutching member relative to the other clutching member.

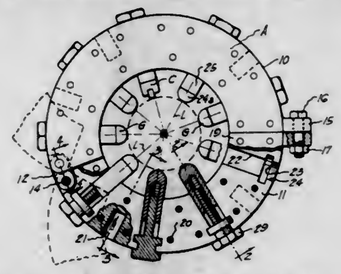
2,280,645
INTERNAL COMBUSTION ENGINE
Robert V. Ferguson, Amarillo, Tex.
Application May 24, 1939, Serial No. 275,548
7 Claims. (Cl. 123—43)



1. In an internal combustion engine, the combination of a fly wheel structure and crank shaft eccentrically mounted relative to each other for relative rotary movement, a pair of cylinders arranged side by side on opposite sides of a plane extending lengthwise of the crank shaft between the cylinders and rigidly connected together, and pistons mounted in said cylinders, said pistons and cylinders being operatively connected between the crank shaft and fly wheel structure, the cylinders having combustion chambers therein located substantially on the same side of a plane extending lengthwise of the crankshaft at right angles to the first-mentioned plane and on the opposite side of the second-mentioned plane from the connections with the fly wheel structure, and means for causing approximately simultaneous explosions in the combustion chambers of said pair of cylinders.

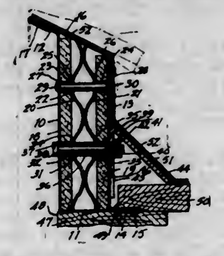
2,280,646
DEVICE FOR TRUING UP SHAFTS
Hugo Gosstrom, Dallas, Tex.
Application February 12, 1940, Serial No. 318,472
4 Claims. (Cl. 82—4)

1. A cutting tool including, a housing formed of arcuate sections hinged together and having a central opening when the sections are swung together, the housing having a plurality of radially disposed bores which have their centers aligned with the center of the housing, a guide member mounted in each bore and having its inner end extending inwardly beyond the inner periphery of the housing, said housing also having a bore which is offset from the center of the housing, a cutter element mounted in said last-named bore, the offset of said bore locating the cutting edge of the cutter in radial alignment with the center of the housing, means for moving the guide members and cutting element with



their respective bores to adjust the same radially, and means for locking the members and elements in their various adjusted positions.

2,280,647
STRUCTURAL CURB OR WALL
Harold B. Hawes, Fairfield, Conn.
Application December 16, 1940, Serial No. 370,236
9 Claims. (Cl. 108—1)



1. In a building structure, a roof comprising a supporting part, a structural curb or wall comprising a hollow wall section having spaced side wall members and a bottom wall portion integral with one of said side wall members extending across said wall section and projecting beyond said other side wall member and engaged with said supporting part, said other side wall member having an integral flange portion contacting the projecting portion of said bottom wall portion and secured thereto, fastening means extending through said flange portion securing said wall section to said supporting part, a reinforcing corrugated strut member disposed between said side wall members, and transverse fastening means connected between said side wall members and extending through said strut member.

2,280,648
LATCH
Edward N. Jacobi, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Application November 2, 1940, Serial No. 364,054
14 Claims. (Cl. 70—71)

1. In combination with two abutting walls of a luggage case: a mounted plate fixed on the exterior of one of said walls; a hook bolt; means pivotally mounting the hook bolt behind the mounting plate with the bolt movable in a plane parallel with the walls and with its hooked end projecting from the edge of said wall; a keeper on the other wall engageable by the hooked end of the bolt; a handle part pivotally mounted on the exterior of said mounting plate; and means

connecting said handle part with the hook bolt at a distance from their pivots so that pivotal



movement may be imparted to the bolt from said handle part.

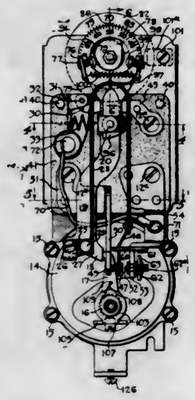
2,280,649
MANUFACTURE OF CATALYSTS
Elmer R. Kanhofer, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application July 26, 1940, Serial No. 347,752
13 Claims. (Cl. 252—251)

1. A process for the manufacture of supported adsorbent and catalytic material suitable for use in hydrocarbon conversion reactions which comprises precipitating a hydrated silica upon finely divided particles of a refractory support in the presence of an added substance capable of promoting the formation of finely divided hydrated silica particles, said substance being in an amount such that the silica precipitates in the form of finely divided particles, and disposing upon said finely divided and supported hydrated silica, a hydrous oxide capable of activating the hydrated silica for use in said hydrocarbon conversion reactions.

2,280,650
MANUFACTURE OF CATALYSTS
Louis S. Kassel, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application June 28, 1940, Serial No. 342,901
10 Claims. (Cl. 252—254)

2. A process for the manufacture of catalytic material suitable for use in hydrocarbon conversion reactions which comprises preparing a major proportion of the catalyst as a powdery material by precipitating hydrated silica from a solution of an alkaline silicate by the acidification thereof in the presence of an added component which promotes the precipitation of the hydrated silica in said powdery form, and purifying the hydrated silica to substantially remove alkali metal impurities, separately preparing a minor proportion of the catalyst material as a hydrogel by precipitating a silica hydrogel from a solution of an alkaline silicate by the acidification thereof, purifying the silica hydrogel while in the wet condition by the removal of alkali metal impurities, and mixing said powdery and hydrogel materials and extruding.

2,280,651
THERMOSTAT
Carl G. Kronmiller, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application April 19, 1937, Serial No. 137,725
24 Claims. (Cl. 200—139)

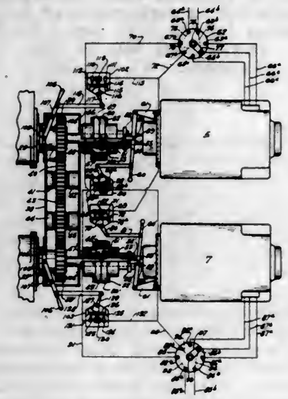


1. In a device of the character described, in combination, a condition responsive element, condition control means operative by said element, first means for varying the position of said condition responsive element to vary the value of the condition to which said condition responsive element responds, second means for varying the position of said condition responsive element to vary the value of the condition to which said condition responsive element responds, timed means to render one of said position varying means inoperative for a predetermined period, and means for varying the duration of said period.

2,280,652
WINCH
Robert C. Lamond, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 29, 1939, Serial No. 281,784
9 Claims. (Cl. 172—239)

1. In a device of the class described, the combination of a pair of electric motors, independent electric circuits for said motors, a drive shaft for each of said motors, a driven shaft in axial alignment with each of said drive shafts, a driven member operatively connected to one of said driven shafts, a second driven member operatively connected to the other of said driven shafts a coupling member associated with each of said drive and driven shafts for connecting or disconnecting the same, independent operating means for each of said coupling members, a switch in one of said circuits for controlling the operation of one of said motors, means operated by the coupling operating means associated with said second motor for opening and closing said switch, a switch in the other of said circuits for controlling said second motor, means operated by the coupling operating means associated with said first motor for opening or closing said last mentioned switch, gearing disposed between said driven shafts whereby either of said driven members may be operated by either of said motors, means for preventing operation of either of said driven members by both of said motors, said last

mentioned means comprising a pair of switches, one of said last mentioned switches being provided in each of said circuits, a gear shifting means adjacent each of said driven shafts for connecting its associated driven shaft with, or disconnecting it from said gearing, means operated by one of said gear shifting means for actuating one of said pair of switches to open position when its associated driven shaft is connected to



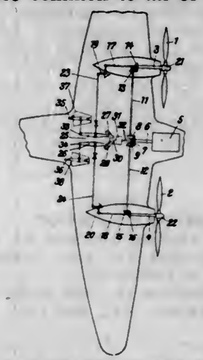
said gearing and for actuating said switch to closed position when said driven shaft is disconnected from said gearing, and means actuated by the other of said gear shifting means for actuating the other of said pair of switches to open position when its associated driven shaft is connected to said gearing and for actuating said last mentioned switch to closed position when said last mentioned driven shaft is disconnected from said gearing.

2,280,653
ADHESIVENESS OF ASPHALTS
Charles Mack, Sarnia, Ontario, Canada, assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application August 10, 1935, Serial No. 35,633
7 Claims. (Cl. 106—269)

1. Improved asphaltic material for road construction and the like comprising a bituminous binder consisting of bitumen and .5 to 5.0% of an ester of a higher fatty acid and a high molecular weight monohydric alcohol and a siliceous mineral aggregate thoroughly incorporated with the binder.

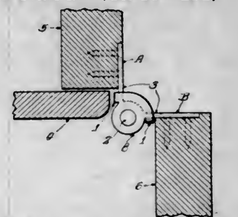
2,280,654
CONTROL OF ADJUSTABLE SCREW PROPELLERS
Otto Mader, Dessau-Ziebigk, Germany, assignor to Junkers Flugzeug-und-Motorenwerke Aktiengesellschaft, Dessau, Germany
Application June 14, 1938, Serial No. 213,586
In Germany June 23, 1937
5 Claims. (Cl. 244—83)

1. In an aircraft having a plurality of propellers driven by a single engine and each propeller having a hollow drive shaft with a hydraulic pitch adjusting mechanism incorporated therein, a control system for simultaneously adjusting the pitch of said propellers comprising a hydraulic valve mounted within each hollow shaft adjacent the adjusting mechanism for its propeller, individual rods, one of said rods being joined to each valve, said rods being slidable in the shafts, a control device common to all of said propellers,



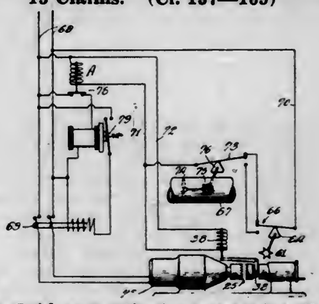
and mechanical linkage means joining said device to each of said rods.

2,280,655
DOORSTOP
Niels Peter Madsen, Chicago, Ill.
Application September 1, 1937, Serial No. 161,927
1 Claim. (Cl. 16—191)



A door stop for use on a hinge, comprising a segmental plate apertured to receive the hinge pintle for retaining the plate between the pintle head and upper edges of the hinge leaves and having two lugs extending from said plate in the same direction and providing spaced limiting stops, one lug adapted for engagement against the outer face of the fixed hinge leaf on the door frame and the other lug serving as a limiting stop for the hinge leaf on the door.

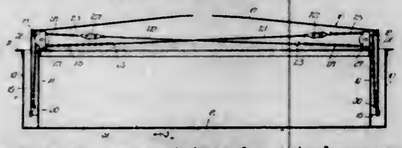
2,280,656
FEEDING DEVICE
Verl E. McCoy, La Grange, Ill., assignor to National Aluminate Corporation, Chicago, Ill., a corporation of Delaware
Application March 3, 1939, Serial No. 259,519
13 Claims. (Cl. 137—165)



1. In a fluid proportioning apparatus, the com-

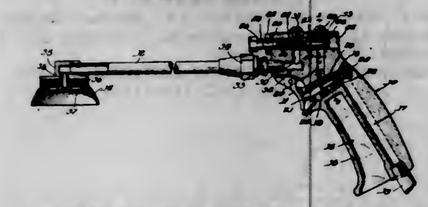
bination of a normally deenergized motor, a pump, a mechanism for connecting said motor and pump including a normally disengaged clutch, means to intermittently energize said motor and engage said clutch in synchronized response to unit volume flow of fluid in a conduit, means for predetermining the running time interval of said motor for each clutch engagement, and means to retain said clutch engaged throughout a complete cycle of operation of said pump.

2,280,657
BREATHER ROOF
Bernard B. McCandliss, Chicago, Ill., assignor to Graver Tank & Mfg. Co., Inc., Catasauqua, Pa., a corporation of Delaware
Application September 14, 1939, Serial No. 294,807
4 Claims. (Cl. 48—176)



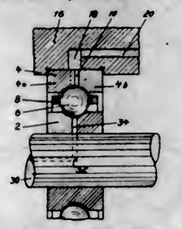
1. In a storage container for petroleum products and the like, in combination, an open top tank arranged to provide a body of sealing liquid, a movable roof for said open top tank including a holder bell having its depending member located within the sealing liquid so as to confine vapors within the tank, flexible cables secured at their respective ends to substantially diametrically spaced points on the holder bell and movable with respect to said tank for guiding and controlling the holder bell in its up and down movement, sheaves adapted to engage the cables respectively at points intermediate their connection with the holder bell, supporting brackets for the sheaves, and an annular reinforcing member fixed to the cylindrical wall of the tank at the upper end thereof and extending inwardly of the tank, said annular member supporting the brackets for the sheaves and having the same fixed thereto.

2,280,658
VACUUM PICKUP
Edgar R. Miller, Chicago, Ill., assignor to F. J. Littell Machine Company, Chicago, Ill., a corporation of Illinois
Application June 15, 1940, Serial No. 340,765
5 Claims. (Cl. 294—64)



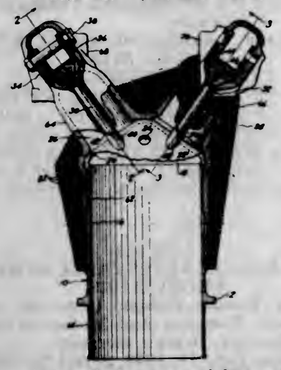
1. In a safety tool, a member in the form of a pistol grip providing a handle therefor, a longitudinal bore extending the length of the member, a venturi passage extending transversely of the member in the upper portion thereof and intersecting the longitudinal bore, valve means for controlling the flow of a fluid medium through the longitudinal bore, a suction passage in the handle member having communication with the venturi passage, and vacuum producing means in said venturi passage including a jet and a venturi member, the discharge end of the jet having location within the venturi member on the side of the suction passage opposite the longitudinal bore.

2,280,659
ANTIFRICTION BEARING
Max Adolf Muller, Biederitz, Germany, assignor to Junkers Flugzeug-und-Motorenwerke Aktiengesellschaft, a corporation of Germany
Application July 24, 1939, Serial No. 286,246
In Germany July 30, 1938
5 Claims. (Cl. 308—187)



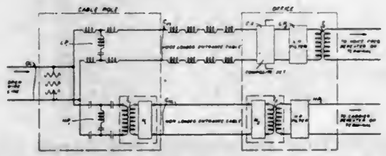
1. A high speed anti-friction roller bearing comprising an inner race, an outer race having a grooved trackway therein, balls between the inner and outer races with each ball making a two point contact with the walls of said trackway, and a plurality of oil discharge outlets extending through said outer race from points between the two point ball contacts in said trackway, said outlets being sufficiently close to each other around said outer race to pass oil outwardly of said bearing before the oil breaks down and foams while the bearing operates at high speeds.

2,280,660
REINFORCED CYLINDER
Phillip P. Newcomb, Manchester, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application September 27, 1940, Serial No. 358,682
7 Claims. (Cl. 123—171)



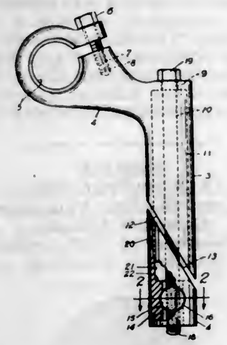
1. An engine cylinder comprising, a barrel and head liner of a metallic material of high structural strength, intake and exhaust port liners of a metallic material of high structural strength secured to said barrel and head liner, a casing of light weight metal covering said port liners and a portion of said barrel and head liner, and supports for valve actuating mechanism of a metallic material of high structural strength attached to said barrel and head liner and imbedded in said casing near said port liners.

2,280,661
FILTERING CIRCUITS
Joseph T. O'Leary, Elizabeth, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 24, 1940, Serial No. 362,546
7 Claims. (Cl. 178—44)



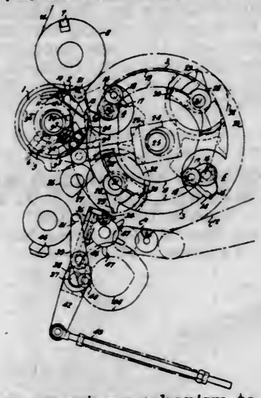
1. In an open-wire carrier telephone system including entrance cable for connecting the open-wire lines to terminal and repeater offices, signal receiving means at a terminal or repeating point comprising small filters at the junction of the entrance cable and the open-wire line, for respectively selecting the carrier frequency and voice frequency signals received over the open-wire line, a non-loaded entrance cable pair and a voice-loaded entrance cable pair, for respectively transmitting the selected carrier frequency signals and the selected voice frequency signals to the office, and other filtering means at the office end of the non-loaded cable and the voice-loaded cable, respectively, for providing additional frequency discrimination against unwanted frequencies in the carrier and voice frequency channels.

2,280,662
STEERING POST FOR CYCLES AND THE LIKE
Ewald F. Pawsat, Maysville, Ky.
Application September 23, 1940, Serial No. 357,841
3 Claims. (Cl. 287—54.1)



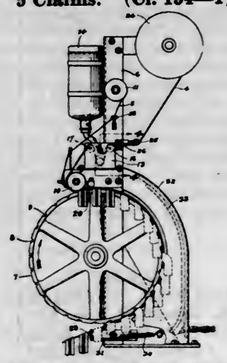
1. A steering device for cycles and the like, comprising a bi-part upright hollow post consisting of an upper section and a lower section adapted to meet along oblique complementary bearing surfaces, the upper section having a bolt opening substantially centered on the axis of the post, and a handle bar supporting arm extending from the upper portion of the upper section, a bolt extending through the bolt opening and depending through both the upper and lower sections of the post, a threaded lower end on the bolt, and an interiorly threaded nut rockingly mounted relative to the lower post section for reception of the threaded bolt end, said nut being housed within said lower post section.

2,280,663
ROTARY CONVEYING MECHANISM FOR CONVEYING THE PRODUCTS OF PRINTING MACHINES
Cecil George Quick, London, and William Arnold Whitehead, Fullwood, Preston, England, assignors to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York
Original application November 10, 1938, Serial No. 243,186. Divided and this application July 27, 1940, Serial No. 347,890
10 Claims. (Cl. 93—93)



1. Rotary conveying mechanism to convey the products of printing machines, the said mechanism comprising a rotary carrier, product grippers thereon, means operating the gripper mechanism to grip the leading end of a product and to carry it around with the carrier, and means operating to strip the product from the carrier and comprising a stationary abutment, a stripper component carried by the carrier and adapted to grip the tail end of the product between itself and the stationary abutment, and means to move the stripper component relatively to its carrier to bring it momentarily substantially to rest during its co-operation with the abutment.

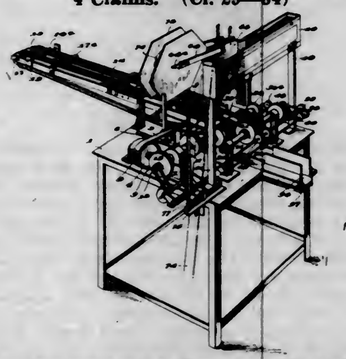
2,280,664
APPLYING REINFORCING STRIP TO SLIDE FASTENERS
Frank Campbell Rutherford, St. Catharines, Ontario, Canada, assignor to Lightning Fastener Company, Limited, St. Catharines, Ontario, Canada
Application March 22, 1939, Serial No. 263,571
5 Claims. (Cl. 154—1)



1. A machine for applying to slide fasteners,

which include a pair of flexible stringers each provided with a series of interlocking elements disposed in interlocking relation, a transverse reinforcing tape, comprising fastener supporting means, means for supporting a length of tape transversely of the fastener, means on the fastener supporting means for locating the tape receiving area of the fastener in register with the tape supporting means, means for guiding a soluble filament between the length of tape carried by the tape supporting means and the fastener carried by the fastener supporting means, means for supplying a solvent for the filament thereto and means for relatively moving the fastener supporting means and the tape supporting means for simultaneously feeding the filament and pressing the tape against the fastener with the filament therebetween.

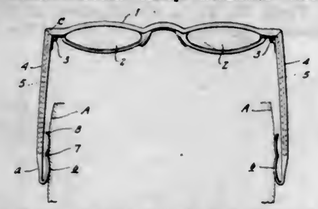
2,280,665
TUBE AND BULB ASSEMBLING MACHINE
Bernard A. Schmitter, Rahway, N. J., assignor to Stanco, Incorporated
Application May 26, 1938, Serial No. 210,290
4 Claims. (Cl. 29—84)



1. In an apparatus for assembling tubular articles, each composed of a body portion unit and a top portion unit telescopically associated therewith, a means for holding and positioning a plurality of top portion units for the insertion of corresponding body portion units, comprising a drive shaft, inner and outer pulley wheels mounted in spaced relation on said shaft, conveyor means for top portion units driven and supported by said pulleys, a plunger guide wheel mounted on said shaft in spaced relation to the outer pulley, a cam member fixedly supported in laterally spaced relation to said guide wheel, a plurality of aligned lateral passageways disposed in spaced relation, circumferentially of said outer pulley and guide wheel, a plurality of plunger rods disposed between said wheels, supported in the aligned passageways in said wheels with the outer ends of said rods extending through the guide wheel and beyond its outer face into intermittent contact with said cam, means for rotating the shaft and wheels, whereby the cam intermittently forces said rods through the aligned passageways, into the space between the pulleys, and spring means for withdrawing the rods from said space.

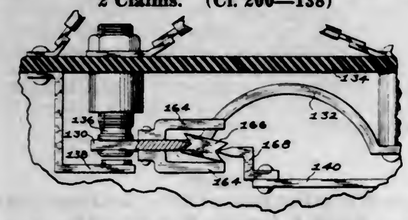
2,280,666
FRAME FOR SPECTACLES
William B. Schofield, New York, N. Y.
Application February 6, 1941, Serial No. 377,581
2 Claims. (Cl. 88—52)

1. In a spectacle frame, the combination comprising a lens mounting, having opposing bows hinged to opposite sides thereof, said bows being relatively short and each having an integral, resilient return-bend clasp member extending



forwardly from the rearmost end thereof whose inner face has convex skin-engaging areas and a skin-receiving depression intermediate said areas.

2,280,667
MIXING DEVICE
Ray W. Scott and Andrew O. McCollum, Detroit, Mich., assignors to Bendix Home Appliances, Inc., South Bend, Ind., a corporation of Delaware
Application March 28, 1938. Serial No. 198,431
2 Claims. (Cl. 200—138)



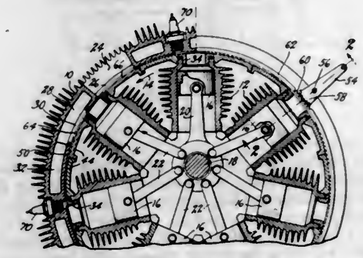
1. A thermostatic switch comprising spaced contacts, a movable contactor engageable with either of said contacts, said movable contactor including a pair of spaced legs forming a yoke, a bimetal strip secured at one end to an element, the temperature of which is to be controlled, and a block lying within and held in place by said yoke and pivotally engaging the contactor and the other end of the bimetal strip and forming a snap-acting connection therebetween.

2,280,668
FLY PROTECTOR
Margaret Lena Sherlock, Vancouver, British Columbia, Canada
Application December 18, 1940, Serial No. 370,707
2 Claims. (Cl. 2—4)



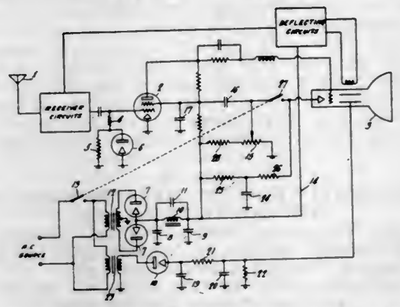
2. An insect guard for mounting on the head of a person comprising an adjustable circular neckband having a series of bayonet shaped slots in its upper edge at spaced intervals, a series of spring ribs joined at their centers by a pivot, said ribs being adapted to be bowed with their free ends bent at right angles to provide projections for engagement with the slots of said neckband, the tips of said projections being raised to retain the projections in said slots, and a netting covering said ribs.

2,280,669
ENGINE
Ignac Sklenár, Paris, France
Application November 15, 1938, Serial No. 240,515
4 Claims. (Cl. 123—44)



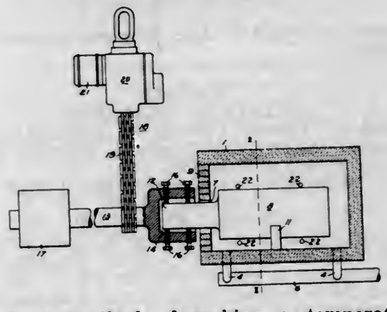
1. A bi-rotary engine including a crankshaft, a cylinder bank and a valve member, all of said parts being mounted to have relative rotary movement with respect to each other, said valve member having a series of peripherally spaced inlet ports and said cylinder bank including a plurality of cylinders having ports at their working chamber ends positioned to come into and out of communication with the ports in the valve member due to relative rotary movement between the cylinder bank and the valve member, whereby to admit fluid to each of said cylinders a plurality of times during each revolution of the cylinder bank relative to the valve member, and a control member located between said cylinders and said valve member, said control member having a series of ports formed therein corresponding in number to the number of inlet ports in the valve member and correspondingly spaced, and said control member being adjustable relative to the valve member to alter the timing of admission of fluid to the cylinders through said ports.

2,280,670
CATHODE RAY TUBE CIRCUIT
Sterling C. Spielman, Philadelphia, Pa., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application March 21, 1940, Serial No. 325,241
12 Claims. (Cl. 250—27)



11. In a cathode ray tube circuit, a cathode ray tube having an electron beam-emitting means and a beam-sustaining electrode, means for supplying a beam-sustaining potential to said electrode, switching means for controlling said potential-supply means, a condenser, means for charging said condenser when said potential-supply means is operative, thereby to develop a voltage across said condenser, connections for applying said condenser voltage to said tube to control the electron beam, and switching means operable conjointly with said first-mentioned switching means to modify the effectiveness of said connections and thereby control the application of said condenser voltage to said tube.

2,280,671
METHOD OF MAKING TEMPERATURE STABILIZED SHAFTS
Harold J. Stein, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application May 22, 1940, Serial No. 336,502
4 Claims. (Cl. 148—12)

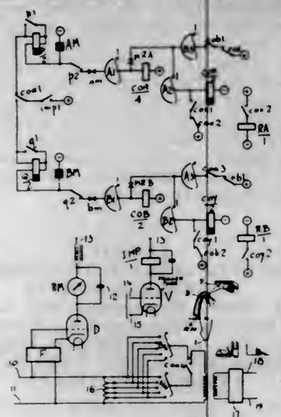


1. In a method of making a temperature stabilized steel shaft from an ingot, the steps comprising heating a generally cylindrical ingot to the requisite forging temperature, uniformly forging said ingot to approximate shaft shape with the longitudinal axis of the shaft substantially coinciding with the longitudinal axis of the ingot, annealing said shaft by applying heat thereto and, during the application of said heat, relatively rotating said shaft and the heat applying means sufficiently to uniformly concenter heat penetration with respect to its longitudinal axis, and thereafter machining said shaft to its final dimensions using centers coincident with its said longitudinal axis.

2,280,672
AUTOMATIC GAIN CONTROL
Teseo Bruno Dante Terroni, Broadgreen, Liverpool, England, assignor to Automatic Telephone & Electric Company Limited, London, England, a British company
Application November 20, 1940, Serial No. 366,468
In Great Britain December 11, 1939
6 Claims. (Cl. 178—44)

6. In a carrier wave signalling system, a line, a filter connected to said line designed to pass currents having a frequency or frequencies close to but outside the frequency band of the carrier waves, a meter variably responsive to the strength of current received from the line through the filter, an amplifier connected to said line independently of said filter by which the carrier waves are amplified, means for causing a light ray to periodically traverse the indicating face of said meter, progressively-operated means controlled by said meter through the medium of said light

rays to take up a position corresponding to the reading of said meter and gain-controlling



means controlled by said progressively-operated means.

2,280,673
CATALYTIC CRACKING
Charles L. Thomas, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application July 8, 1940, Serial No. 344,373
9 Claims. (Cl. 196—52)

4. In processes for utilizing the heat of reaction from an exothermic reaction occurring at a temperature in excess of about 500° C. for carrying out a reaction occurring at a temperature in excess of about 450° C., the improvement which comprises the use of a mixture of cuprous chloride and anhydrous halide of a polyvalent metal, said mixture having a melting point below 450° C. as a heat exchange medium.

2,280,674
CHEMICAL REACTION CONTROL
Charles L. Thomas, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application July 8, 1940, Serial No. 344,375
5 Claims. (Cl. 23—1)

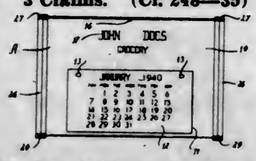
1. In processes for utilizing the heat evolved during exothermic reaction for the carrying out of an endothermic reaction by the circulation of a heat exchange medium, the improvement which comprises using a mixture of aluminum chloride with an anhydrous halide of a bi-valent metal as the heat carrying medium, said mixture having a melting point below 450° C.

2,280,675
VEHICLE-OPERATED DOOR
Daniel D. Timmermann, Palm Springs, Calif.
Application July 16, 1940, Serial No. 345,846
9 Claims. (Cl. 268—35)



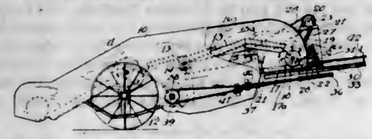
1. The combination with a building having swinging doors, of door-operating mechanism comprising sliding members operatively connected with the doors, main trip bars movable with the sliding members, auxiliary trip bars independent of said sliding members, spring catches operatively connected with the auxiliary trip bars for normally holding the doors in closed position, and trip devices actuated by engagement with the wheels of a vehicle for successively releasing the catches and moving the doors to open position.

2,280,676
PLASTIC TRIM CALENDAR HOLDER
Martin E. Trollen, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a corporation of Minnesota
Application January 12, 1940, Serial No. 313,535
3 Claims. (Cl. 248—35)



1. A calendar holder comprising a backing sheet substantially rectangular in form, a flange extending along the top and the bottom edges of said sheet to a point spaced from the side edges thereof, a plastic strip overlying the front surface of said backing sheet adjacent the side edges thereof, said strips having folded edges extending over a portion of the rear surface of the said backing sheet, movement of said strips being limited in one direction by said flanges, notches in the ends of said strips, and ears on said backing sheet extending into said notches to prevent movement of said strips in the other direction with respect to said backing sheet.

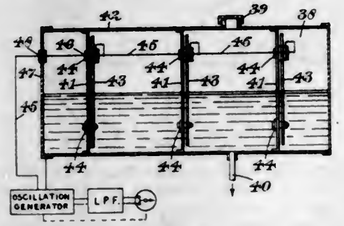
2,280,677
FORCED FEED CUTTER AND SPREADER FOR COMBINES
Omar P. Wagner and Oscar E. Wagner, Eppards Point Township, Livingston County, Ill.
Application December 7, 1940, Serial No. 369,078
20 Claims. (Cl. 146—111)



1. As a part of a harvester combine having straw delivery racks, feeding and cutting mechanism for plant stems such as straw, vines or stalks delivered from the straw racks of the combine, including in combination feeding devices positively engaging and forcibly feeding the plant stems delivered by the straw racks, said feeding devices including a downwardly curved directing wall and a feeding roller adjacent said wall for engaging said plant stems and moving them downwardly along said wall, and cutting mechanism adjacent and below said feeding devices and moving across the path of the plant stems delivered therefrom, whereby the plant stems are cut into short pieces and in that condition are delivered from the combine to the ground.

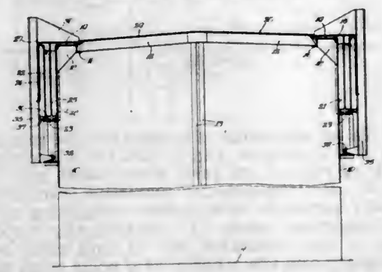
2,280,678
APPARATUS FOR THE MEASUREMENT OF ELECTRICAL REACTANCE
Henry Waymouth, London, England, assignor to Waymouth Gauges & Instruments Limited, London, England, a British company
Application May 28, 1938, Serial No. 210,706
In Great Britain April 19, 1938
3 Claims. (Cl. 175—183)

1. Apparatus for measuring an electrical capacity, comprising a generator of electric oscillations, said generator having a frequency control circuit comprising a variable reactance and a condenser, the capacity of which is to be measured, frequency responsive means to which said oscillations are applied, and a galvanometer energized according to the output of said frequency re-



sponsive means and having a biased pivotal indicating member, said reactance having a movable reactance varying member rigid with said indicating member for movement therewith to vary the reactance in the sense to oppose a change of frequency of said oscillations produced by a change of capacity of the condenser.

2,280,679
BREATHER ROOF
Lester A. Wilkin and Hubert Smith, East Chicago, Ind., assignors to Graver Tank & Mfg. Co., Inc., Catasauqua, Pa., a corporation of Delaware
Application September 18, 1939, Serial No. 295,378
2 Claims. (Cl. 48—176)



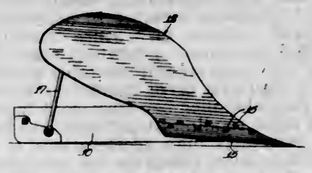
1. In a storage container for petroleum products and the like, in combination, an open top tank having a launder at the open end thereof containing sealing liquid, a movable roof for said open top tank including a holder bell having its depending skirt located within the sealing liquid so as to confine vapors within the tank, a rain shed skirt depending from the periphery of said movable roof and encircling the launder to provide protection therefor against the elements, means guiding the holder bell during movement thereof to increase or decrease the vapor space within the tank including rollers fixed to the lower end of the depending skirt and having contact with the side walls of the launder, members fixed to the rain shed skirt and depending below the launder, rollers carried by the depending ends of said members respectively, and guide rails fixed to the cylindrical wall of the tank with which said rollers are adapted to engage whereby movement of the holder bell in a vertical direction is additionally guided and whereby the roof is maintained substantially horizontal during said movement.

2,280,680
ELECTRIC LIGHT CORD EXTENSION
Richard C. Wittman, Emporium, Pa.
Application March 21, 1941, Serial No. 384,488
3 Claims. (Cl. 200—153)



1. A cord extension device comprising a pair of members spaced in parallel relationship, a pulley mounted between said members at one end thereof, a pulley carriage member slidably mounted between said members, said pulley carriage member comprising a pair of sliding members having relatively widely spaced flanges engaging said first-mentioned members, a pulley mounted between said sliding members, an axle extending through said pulley and engaging said members, and means on said axle for varying the weight of said pulley carriage.

2,280,681
PLOW
Rudolph J. Altgelt, South Bend, Ind., assignor to Oliver Farm Equipment Company, a corporation of Delaware
Application August 5, 1937, Serial No. 157,514
9 Claims. (Cl. 97—113)

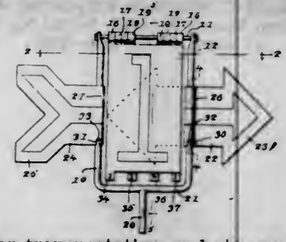


1. A plow structure having a scouring surface in the form of a symmetrically curved surface, the axis of which is at an angle with respect to the horizontal.

2,280,682
DOWN MARKER FOR FOOTBALL
Roy C. Baker, Buffalo, Wyo.
Application April 4, 1941, Serial No. 386,899
3 Claims. (Cl. 40—102)

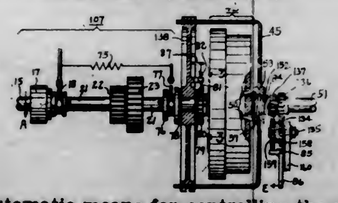
1. A football down marker comprising a U-shaped frame, a plurality of plates hingedly suspended between the legs of the frame and individually swingable from the front side to the rear side of the frame to denote successive downs, and a play direction indicating arrow formed of sections respectively hinged to the legs of the U-shaped frame and adapted to be disposed in alignment in one position to indicate direction

of play and adapted to be disposed respectively in front and in rear of the frame to house said



plates for transportation and storage when the device is not in use.

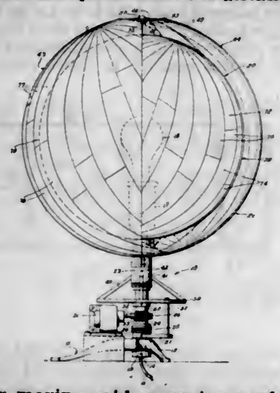
2,280,687
AUTOMATIC CLUTCH
Alda V. Bedford, Collingswood, N. J.
Application April 9, 1940, Serial No. 328,613
17 Claims. (Cl. 192—54)



1. Automatic means for controlling the resistance to slipping of a rotary power-transmitting unit, said power-transmitting unit having an input member, an output member, and a movable member for adjusting said resistance, said automatic means comprising a first rotatable member, a second rotatable member, differentially-acting means for coupling said two rotatable members and said movable member whereby the effects of rotation of said rotatable members in certain senses are algebraicly additive to increase said resistance and whereby the effects of rotation of said two rotatable members in senses opposite said certain senses are algebraicly additive to decrease said resistance, means for driving said first rotatable member in accordance with said output member in a sense tending to decrease said resistance, a flywheel operatively associated with said second rotatable member, and auxiliary slippable drive means for driving said second rotatable member from said input member in a sense tending to increase said resistance so that extremely high accelerations of said input member cause relatively low accelerations of said second rotatable member due to the slipping of said slippable drive means and the inertia of said flywheel, said auxiliary slippable drive means having a drive ratio so that when said input member has negligible acceleration for a relatively long interval of time the speed of said second rotatable member becomes such as to cancel the resistance-decreasing effect of rotation of said first rotatable member for a certain extremely small magnitude of slip of said rotary power-transmitting unit greater than zero.

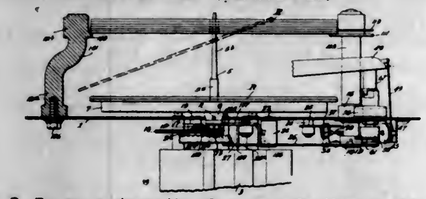
2,280,684
MEANS FOR PRODUCING LIGHT EFFECTS
Cleveland Bronner, Sr., Norwalk, Conn.
Application April 12, 1939, Serial No. 267,388
4 Claims. (Cl. 240—10.1)

3. In a device of the character described, a pair of superposed light screening surfaces, movable laterally relative to each other, said light-screening surfaces being so formed and disposed relative to each other that adjacent superposed portions thereof are spaced different distances apart;



means for moving said screening surfaces relative to each other: and means for projecting light through said superposed screening surfaces.

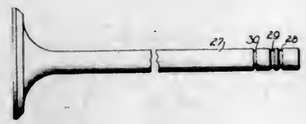
2,280,685
PHONOGRAPH
Benjamin R. Carson, Camden, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 17, 1938, Serial No. 246,299
3 Claims. (Cl. 274—10)



2. In an automatic phonograph, the combination of a turntable, and means for supporting a stack of records on each other above and parallel to said turntable for successive transference to said turntable, said means comprising a pair of supporting posts at diametrically opposite sides of said turntable, one of said posts being stationary and the other of said posts being movable relative to said first named post, said stationary post having a ledge thereon in elevated relation to and inclined downwardly toward said turntable and upon which the edge of the lowermost record of said stack is adapted to rest, and said movable post including a record supporting shelf at substantially the same elevation above said turntable as said ledge and upon which a marginal portion of said lowermost record is adapted to rest, said ledge operating to cam said lowermost record laterally with respect to said turntable when said movable post is moved to withdraw said shelf from under said lowermost record to free said lowermost record from said stack.

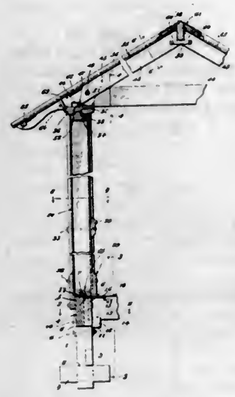
2,280,686
METHOD OF MAKING ENGINE POPPET VALVES
Archie T. Colwell, Cleveland, Ohio, assignor to Thompson Products, Incorporated, Cleveland, Ohio, a corporation of Ohio
Application April 6, 1938, Serial No. 200,310
2 Claims. (Cl. 29—156.7)

1. In the method of making an engine poppet valve having an annular valve spring retainer lock groove in the metal stem thereof, the steps of increasing the resistance of the metal of said stem to fatigue, which comprise initially machining said groove into said stem to nearly



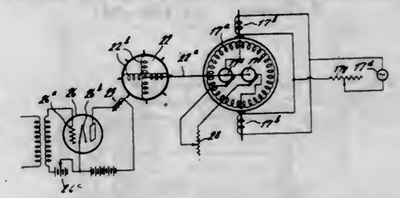
finished depth and finally rolling said groove to a finished depth to work harden the surfaces of said groove and of rolling the outer surface of the adjacent stem portion to work harden said portion.

2,280,687
PORTABLE HOUSE
John A. Connelly, Southern Pines, N. C.
Application April 2, 1941, Serial No. 386,555
6 Claims. (Cl. 20—2)



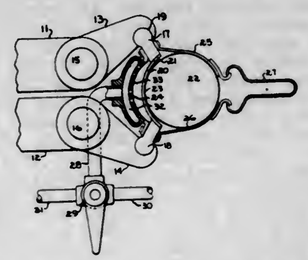
1. In a house of the class described, the combination with a foundation post, of a sill on said foundation post, said sill comprising an outer section and an inner section, said outer section provided with an upstanding tongue, a horizontal block against the inner section of said sill, a bracket secured to said foundation post and supporting said horizontal block, said horizontal block provided with an upper bevelled face, said bevelled face extending downwardly and inwardly, a floor joist having a socket in its under edge fitting the bevelled face of said horizontal block, said floor joist provided with a dovetail fitted within the inner section of said sill, an anchor plate resting flat upon the top of said inner section, said anchor plate provided with downwardly extending flanges on its ends, one of the flanges extending between the sections of said sill, and the outer flange of said anchor plate extending into said floor joist, a side section provided with a horizontal spacing strip, said spacing strip provided with a socket, said tongue of the outer section of the sill fitting said socket, and a roof structure on said side section.

2,280,688
ELECTRO-OPTICAL TRANSMISSION SYSTEM AND APPARATUS
Austin G. Cooley, New York, and Garett Vander Veer Dillenback, Jr., Slingerlands, N. Y., assignors, by mesne assignments, to Times Telephoto Equipment Inc., New York, N. Y., a corporation of New York
Application January 6, 1940, Serial No. 312,648
2 Claims. (Cl. 178—69.5)



1. In combination, a synchronous motor having a toothed rotor and a stator winding adapted to be normally excited by D. C. polarizing currents, means to receive synchronizing impulses, a grid-controlled amplifier tube upon which said impulses are impressed, the said stator winding being connected in the plate circuit of said tube to be excited by the normal steady space current thereof even in the absence of synchronizing signals, an induction motor, the rotor of said synchronous motor being resiliently coupled to the rotor of said induction motor, and means to adjust the characteristics of the induction motor so that it normally runs at a speed slightly higher than the maximum torque-speed in the absence of said synchronizing signals.

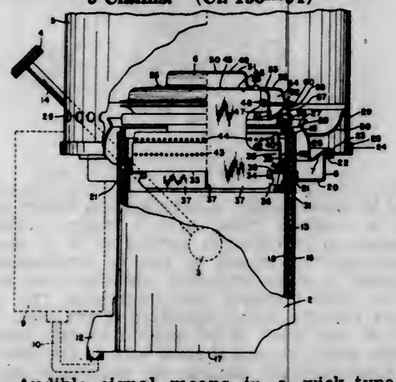
2,280,689
METHOD OF MAKING COMPOSITE ARTICLES
Francis S. Denneen, Cleveland, and William C. Dunn, Shaker Heights, Ohio, assignors to Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio
Application May 2, 1940, Serial No. 332,896
9 Claims. (Cl. 219—10)



1. In a method of manufacturing a composite article, the steps comprising placing a surface of an element in proximity with a surface zone of the article, said element being adapted to serve as a conductor, connecting a terminal of a source of current to said element, passing high frequency current from said source thru said element to heat said element and to induce heating current in the surface zone of the article to heat the surface zone to fusing temperature, and applying pressure to said element to deflect said element when the element loses strength due to its rise in temperature to bring the surface of

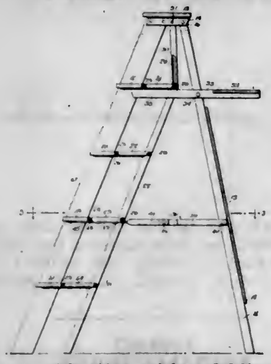
the element into intimate contact with the surface zone of the article to effect a welding together of the element and the article.

2,280,690
WICK-TYPE OIL BURNER
Paul L. Dulaney, Cincinnati, Ohio, assignor to The Huenefeld Company, Cincinnati, Ohio, a company of Ohio
Application June 5, 1940, Serial No. 338,976
5 Claims. (Cl. 158—94)



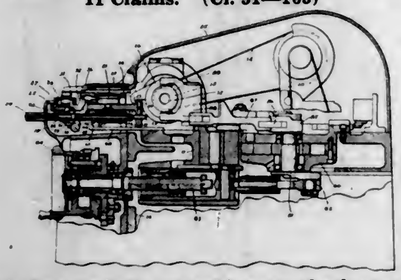
1. Audible signal means in a wick-type oil burner for indicating maladjustment of the wick to an abnormally high level, comprising in combination: a wick and a wick supporting means of generally cylindrical formation, and means to elevate and lower the wick, a flame converter supported partly within the wick supporting means and including a hollow body having port means to deliver a current of air of combustion to the inner edge of the wick, a perforate top cap on the flame converter and having an annular outer edge located above the wick, the perforations of which cap normally release air upwardly through the interior of the wick supporting means, a flame spreader having an annular portion in position to contact the upper peripheral edge of the wick when elevated, an exterior collar directing a second current of air upwardly past the exterior of the wick supporting means and said spreader, and means including an annular plate disposed intermediate the spreader and the annular outer edge of the top cap in spaced relationship, to provide a third annular air current port delivering from the interior of the burner a high velocity current of air radially outwardly through the space between the plate and the annular outer edge of the top cap, the remaining annular space between the plate and the flame spreader being in partial communication with the burner interior and thereby supplied with a limited quantity of air to provide a fourth air current of low velocity directed radially outwardly immediately beneath the blast from said third annular air current port, the high and low velocity currents from said third and fourth ports being at an elevation above the flame spreader for cutting off the tip of the flame emanating from the wick when elevated into substantial contact with the spreader, to vibrate the flame with such intensity as to produce a loud audible signal indicating the abnormally elevated condition of the wick, while at the same time supplying air to replace the air cut off by contact of the wick upon the spreader and thereby ensuring maintenance of a clean flame concurrently with production of the audible signal.

2,280,691
STEPLADDER
Louis Edelmann, Springfield Gardens, N. Y.
Application August 19, 1941, Serial No. 407,393
6 Claims. (Cl. 228—37)



1. The combination with a folding step-ladder having leg members and stationary steps supported by said leg members, of supplemental steps hinged to the rear of said stationary steps and adapted to fold upwardly when said ladder is folded.

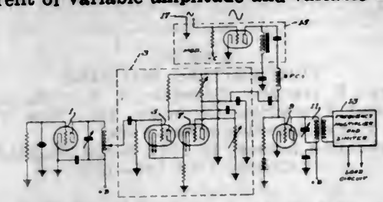
2,280,692
SIZE REGULATOR
Robert S. Elberty, Jr., Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa.
Application October 13, 1939, Serial No. 299,369
11 Claims. (Cl. 51—165)



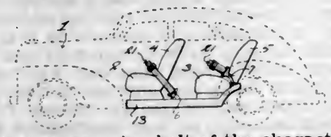
11. In a grinding machine, a wheel support, a grinding wheel rotatably mounted thereon, mechanism for feeding said grinding wheel to effect a grinding operation, a size control mechanism having cooperating elements, means responsive to movement of one of said elements relative to the other for controlling said feeding mechanism, means for effecting an adjustment between said elements to compensate for wheel wear, and means for effecting a further adjustment between said elements to compensate for variation in wheel wear.

2,280,693
APPARATUS FOR AND METHOD OF MODULATING WAVES
John Evans, Palmyra, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 1, 1940, Serial No. 338,342
9 Claims. (Cl. 179—171.5)

1. The method of modulating which includes generating frequency stabilized currents of substantially sinusoidal wave form, converting said currents of sinusoidal wave form into currents of saw-tooth wave form, combining said currents of saw-tooth wave form with currents corresponding to the modulation signals to obtain pulses of current of variable amplitude and variable duration, applying said current of variable amplitude and variable duration to a resonant circuit, and obtaining from said resonant circuit currents of substantially constant amplitude and of a phase varying as a function of said modulation signals.

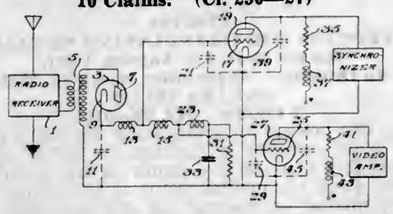


2,280,694
VEHICLE PASSENGER SAFETY DEVICE
Vern W. Embree and Leland F. Embree, Onida, S. Dak.
Application May 23, 1940, Serial No. 336,828
3 Claims. (Cl. 85—1)



1. A strap securing bolt of the character stated comprising a shank having a threaded portion for the reception of securing nuts, a head portion connected with said shank, said head portion being relatively long and being disposed to have its length extend obliquely with respect to the length of the shank, said head portion having a slot therein and extending lengthwise thereof for the reception of a strap, belt or the like.

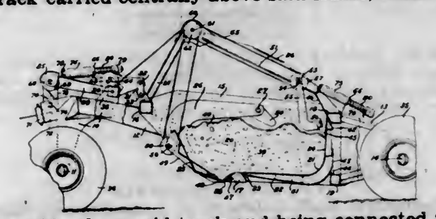
2,280,695
TELEVISION CIRCUITS
Dudley E. Foster, South Orange, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 29, 1940, Serial No. 343,058
10 Claims. (Cl. 250—27)



1. In a signaling system, a multi-section filter having a rising frequency response characteristic, a load circuit having a frequency response characteristic complementary to said first filter response characteristic connected intermediate the ends of said filter.

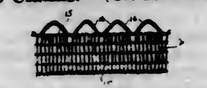
2,280,696
ROAD SCRAPER
Henry C. French, Milwaukee, Wis., assignor to The Heil Co., Milwaukee, Wis., a corporation of Wisconsin
Application September 9, 1939, Serial No. 294,047
12 Claims. (Cl. 37—126)

1. In combination, a transportable frame, a load carrying bowl having a bottom formed with a rear wall and movable relative to said frame, a track carried centrally above said frame, sheaves



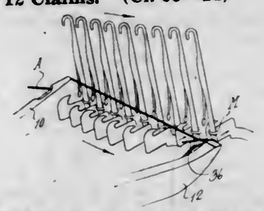
movable along said track and being connected to said bowl, and a cable for advancing said sheaves along said track to move said bowl relative to said frame.

2,280,697
SHOWER CURTAIN
Nathaniel Gaines, South Orange, N. J.
Application November 26, 1940, Serial No. 367,197
9 Claims. (Cl. 156—10)



3. In a shower curtain, a curtain body, a hanger loop forming member connected to the upper edge of the curtain body at a plurality of spaced points to form a plurality of loops along the top edge of the curtain body, said member being adjustably connected to said curtain body by slidable frictional engagement so that when the loops are relieved of tension the connections may be adjusted to vary the size of the individual loops and when under tension will securely bind to support the curtain and prevent slippage of the member relative to the curtain.

2,280,698
CIRCULAR KNITTING MACHINE
Lucien A. Goyette, Lowell, Mass., assignor to Scott & Williams, Incorporated, Laconia, N. H., a corporation of Massachusetts
Application September 30, 1941, Serial No. 413,053
12 Claims. (Cl. 66—14)



1. In a circular knitting machine having independent needles, sinkers cooperating with said needles, main and auxiliary knitting waves for knitting main and auxiliary yarns at the respective knitting waves, means for feeding an auxiliary yarn to the needles and means for engaging the free ends of the auxiliary yarn with sinkers in advance of the first needle knitting said auxiliary yarn at the auxiliary knitting wave.

2,280,699
METHOD OF LAMINATING AND ADHESIVE
Francis Ralph Grant, El Dorado, and Carl E. Wright, Gurdon, Ark., assignors to Lion Oil Refining Company, El Dorado, Ark., a corporation of Delaware
Application October 2, 1939, Serial No. 297,544
17 Claims. (Cl. 154—40)

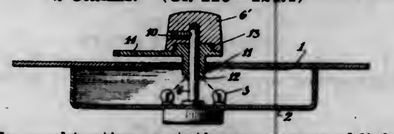
12. The method of laminating a laminated

product which comprises a plurality of laminated layers, at least two of which are joined together by a bituminous adhesive, which com-



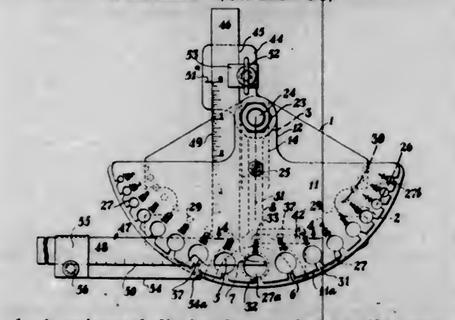
prises bonding a lamina to the laminated product with a water-containing adhesive of the starchy type including not substantially less than 1% of water-insoluble metallic soap.

2,280,700
POINTER FOR DIALS
Norman C. Hall, Caldwell, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware
Application January 23, 1941, Serial No. 375,628
2 Claims. (Cl. 116—124.4)



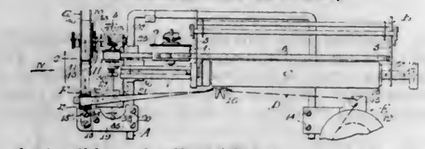
1. In combination, a stationary source of light, a pointer for a dial, and a revoluble shaft upon which said pointer is mounted, said pointer being constructed of light-transmitting material having the major portion of its surface of such a character as to prevent light from escaping and having surfaces near opposite ends thereof of such character as to permit ingress of light near one end and egress of light near the other end thereof, said surface which permits ingress of light being disposed perpendicularly to a beam of light from said source of light, said pointer having a cylindrical portion extending along said shaft having said ingress surface thereon.

2,280,701
UNIVERSAL DIE IMPLEMENT
John A. Hagerstrom, Cranford, and John F. Hagerstrom, Elizabeth, N. J.
Application April 11, 1940, Serial No. 329,062
8 Claims. (Cl. 164—94)



1. A universal die implement having the combination of a die plate, a punch guiding plate thereover, a fitting between said plates comprising a hub having a pair of projecting arms one under the other with a gap between them, each of said plates having a recess for receiving one of said arms to provide a gap between said plates for the material to be punched, said plates together with said fitting being swingably mounted about a common axle, said plates having a series of various sized complementarily registered die and guide holes in an arc concentric with said axle, means for each of said complementary holes to register them with a predetermined working location centre and to lock said plates in said location centre, and said plates and fitting being each disassemblable from each other and from said axle to permit reconditioning of said plates.

2,280,702
TYPEWRITING MACHINE
George F. Handley, Glendale, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a corporation of New York
Application January 18, 1941, Serial No. 375,061
2 Claims. (Cl. 197—153)



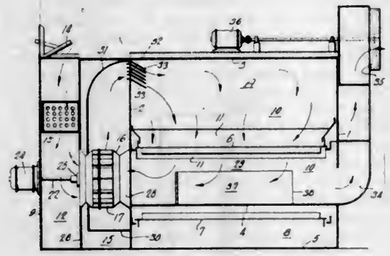
1. A ribbon feeding attachment for a typewriter including a main frame having end walls, a carriage mounted on said frame for letter spacing and return travel, a motor driven barrel journaled on said frame intermediate said end walls to rotate about an axis transverse to the direction of carriage travel, and a carriage draw band secured respectively to said barrel and said carriage; said attachment comprising a mechanism frame adapted to be mounted on said main frame outwardly beyond that end wall of said frame towards which said carriage moves during carriage letter-spacing travel, ribbon feeding mechanism mounted on said mechanism frame and including a drive pulley, and means so journaling said pulley on said mechanism frame that when the attachment is applied to the typewriter the pulley will be rotatable about an axis parallel to said barrel axis and outwardly beyond that end wall of said main frame towards which the carriage moves during letter-spacing travel, said pulley being adapted to be engaged by the carriage draw band with the latter having a portion extending from said barrel generally in the direction of carriage letter-spacing movement to and in driving contact with said pulley and another portion extending from said pulley and in the direction of carriage return movement to the point of attachment of the band to the carriage.

2,280,703
PROCESS FOR GRANULATING METALS
Russell Hart, Los Angeles, Calif.
No Drawing. Application March 21, 1941, Serial No. 384,549
7 Claims. (Cl. 82—91)

1. The process for granulating the alkali metals which consists of melting the metal under a suitably non-reactive liquid having a boiling point above the melting point of said metal and then mixing or beating the mixture until the molten metal is granulated to the desired fineness and then pouring the beaten mixture into a suitably non-reactive cooling liquid maintained at a temperature below the melting point of the metal to solidify the metallic granules.

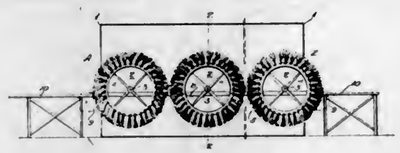
2,280,704
AIR CIRCULATING SYSTEM FOR DRIERS
Alpheus O. Hurxthal, Wyncote, Pa., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania
Application September 12, 1939, Serial No. 294,526
1 Claim. (Cl. 34—212)

A drier comprising a drying chamber devoid of any air conditioning means, means for circulating air solely within said drying chamber in a course transversely thereof, a second chamber provided with air conditioning means, means for moving unconditioned air from outside said drier into said second chamber for initial conditioning and for moving the initially conditioned air from said second chamber into the circulation of air



in said drying chamber, an air-intercepting gate in said drying chamber for selectively diverting the air circulating solely therein and transversely thereof in either direction longitudinally of said chamber from one portion of said transverse course of circulation into an adjacent portion of said transverse course of circulation solely within said drying chamber, and means for discharging said circulating air to waste outside said drier.

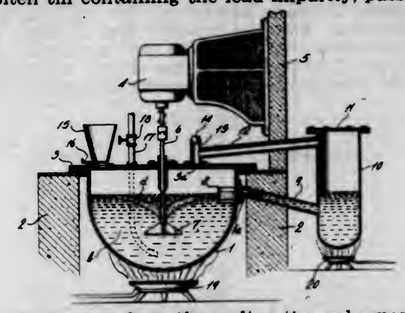
2,280,705
TOBACCO CASING MACHINE
Alpheus O. Hurxthal, Wyncote, Pa., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania
Application July 25, 1940, Serial No. 347,523
13 Claims. (Cl. 131—138)



1. A tobacco casing apparatus comprising a longitudinally elongated housing in which the tobacco is treated, a drum around the periphery of which head ends of tobacco hands are secured, means for advancing the drum through the housing from end to end thereof, means for rotating the drum enroute, and means providing for ready removal of the drum from said advancing means at the completion of its travel through said housing.

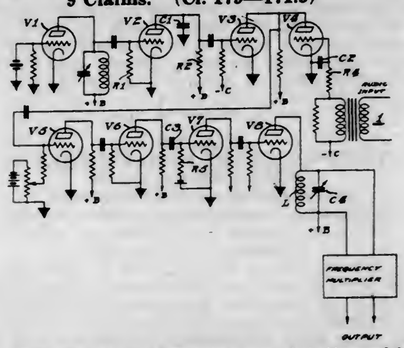
2,280,706
PROCESS FOR PURIFYING METALS
Thomas R. Jones, Woodbridge, N. J., assignor to The American Metal Company, Limited, New York, N. Y., a corporation of New York
Application March 20, 1941, Serial No. 384,260
12 Claims. (Cl. 75—85)

1. The process of removing lead as an impurity from tin, which comprises forming a dross of stannous chloride and lead chloride on a mass of molten tin containing the lead impurity, passing



the dross away from the molten tin and separating the stannous chloride from the lead chloride.

2,280,707
APPARATUS FOR AND METHOD OF FREQUENCY MODULATING
Ray D. Kell, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 31, 1940, Serial No. 337,986
9 Claims. (Cl. 179—171.5)

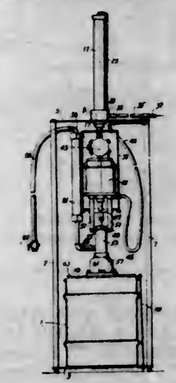


1. The method of frequency modulating which includes generating frequency stabilized waves, applying a portion of said waves to establish waves of saw-tooth form, combining said waves of saw-tooth form with waves corresponding to the desired modulation, applying said combined waves to derive therefrom pulses having an amplitude and a width corresponding to the modulation, limiting the amplitude of said impulses to derive currents of square wave form, differentiating said currents of square wave form to derive a series of pulses having a spacing corresponding to said modulation, and applying last mentioned pulses to obtain waves of substantially constant mid-frequency and an extreme frequency corresponding to the applied modulation.

2,280,708
PUMP
Victor G. Klein, St. Louis, and Jonathan Kludt, Ladue, Mo., assignors to Lincoln Engineering Company, St. Louis, Mo., a corporation of Missouri
Application November 4, 1940, Serial No. 364,194
22 Claims. (Cl. 221—47.1)

1. In a pump, a follower for application to the surface of material in a cylindric container, the shape of the follower loosely approximating a

cross section of said cylinder with clearance, said follower having an opening for withdrawal of material, a pump located on the follower and withdrawing material through said opening, an engine associated with the pump, means for applying fluid pressure to the engine and pump in the direction of their combined weights, the



said fluid pressure and weight of the pump and engine being applied with the follower weight to the material as it is withdrawn from beneath it by the pump, the area of said clearance and of said opening being so related that said force and weight press material through said opening without pressing it through said clearance.

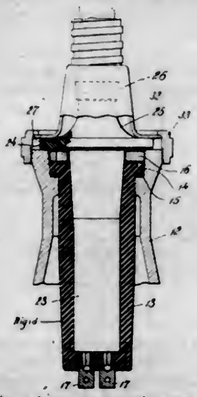
2,280,709
PROCESS FOR THE MANUFACTURE OF MEERSCHAUM PIPES
Ernest Lichtblau, New York, N. Y.
No Drawing. Application October 12, 1939, Serial No. 299,158
4 Claims. (Cl. 18—55)

1. Process for the manufacture of meerschaum pipes from pulverulent meerschaum consisting in molding the pipe from said powder impregnating the molded pipe with a diluted and heated solution of at least one substance selected from the group consisting of phenol formaldehyde and urea resins, drying the article, applying to the same a coating of the same type resins and hardening said coating.

2,280,710
ISOMERIZATION PROCESS
Charles S. Lynch, Fanwood, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application August 31, 1939, Serial No. 292,838
10 Claims. (Cl. 260—676)

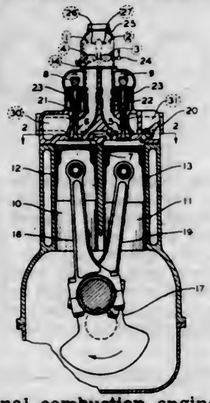
1. A process which comprises contacting at least one normal paraffin containing at least four carbon atoms per molecule with a metal halide isomerization catalyst of the Friedel-Crafts type under isomerization conditions in a step-wise process, carrying out the reaction in at least two stages, maintaining a temperature gradient between the stages, the last stage being maintained below the temperature employed in at least one other stage and correlating the temperature of any particular stage with the length of time the feed is subjected to that temperature so as to avoid substantial cracking of the paraffins and products obtained while effecting substantial isomerization of the normal paraffins.

2,280,711
HIGH TENSION APPARATUS
Raymond R. Machlett, New Canaan, and Joseph W. Skehan, Stamford, Conn., assignors to Machlett Laboratories Incorporated, Springdale, Conn., a corporation of Connecticut
Application April 25, 1941, Serial No. 390,310
14 Claims. (Cl. 174—75)



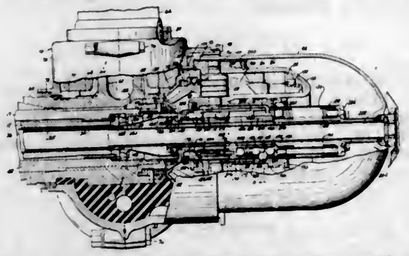
10. In high tension apparatus, a cable which includes a conductor enclosed within a layer of a rubber compound acting as insulation, a sleeve of yielding insulating material mounted to enclose one end of the cable, the sleeve adhering to the surface of the layer, a grounded flare encircling the cable, said sleeve extending into and making tight contact with the interior of the flare, and a terminal mounted in the end of the sleeve and connected within the sleeve material to the conductor in the cable.

2,280,712
INTERNAL COMBUSTION ENGINE
Marion Mallory, Detroit, Mich.
Application September 20, 1940, Serial No. 357,531
10 Claims. (Cl. 123—53)



6. An internal combustion engine comprising two cylinders, a piston for each of said cylinders, a crank shaft, connecting rods for connecting the pistons to the crankshaft so that the one piston leads the other, the said pistons cooperating with the cylinders to form independent combustion chambers, a continuously open restricted passage between the two combustion chambers which serves primarily for venting compressed fuel mixture out of the cylinder having the leading piston into the cylinder having the lagging piston during the compression stroke of the leading piston and to vent burning gases from the cylinder having the lagging piston back into the cylinder having the leading piston to ignite the fuel charge in the cylinder having the leading piston, the said combustion chambers having independent intake ports and independent exhaust ports, valves controlling said ports, means for supplying a fuel mixture to the said combustion chambers through said independent intake ports on the intake strokes of the pistons, the said leading piston on the compression stroke forcing some of the fuel mixture from the cylinder having the leading piston through said restricted passage into the cylinder having the lagging piston whereby at the time of firing the compression in the cylinder having the lagging piston is higher than the compression in the other cylinder, and electric ignition means for firing the fuel mixture in the combustion chamber of the cylinder having the lagging piston before it reaches dead center and about the time the leading piston reaches dead center whereby the combustion chamber of the cylinder with the lagging piston acts as a firing pocket and fires the fuel mixture in the other combustion chamber through the said restricted passage.

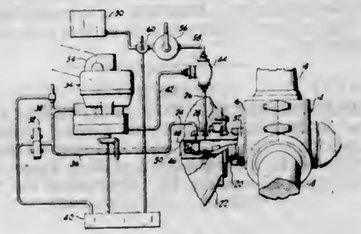
2,280,713
FEATHERING PROPELLER
Erle Martin, West Hartford, John Elmer Anderson, Portland, and Murray C. Beebe, South Glastonbury, Conn., assignors to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application June 12, 1937, Serial No. 147,972
28 Claims. (Cl. 170—163)



1. In a controllable pitch propeller having a hub and blades rotatably mounted in said hub for pitch changing movements, a fluid pressure actuated power device for controlling the pitch changing movements of said blades, a positive low pitch limit stop and a positive high pitch limit stop for determining the entire range of pitch changing movement, and an intermediate pitch fluid controlling limit stop actuated by said power device to cut off the fluid pressure supply to said power device for normally limiting said pitch changing movements to the range of movement between one of said positive pitch limit stops and said intermediate pitch limit stop.

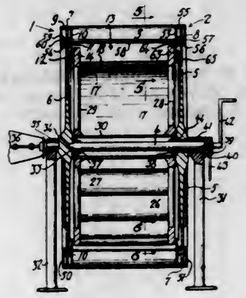
2,280,714
FEATHERING PROPELLER CONTROL
Erle Martin, West Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application January 13, 1938, Serial No. 184,792
15 Claims. (Cl. 170—163)

15. In a controllable-pitch propeller operative to maintain a substantially constant rotational speed, blades rotatably supported for pitch changing movements, an expansible chamber device carried by said propeller and having a movable element operatively connected with said blades to change the pitch thereof, a source of fluid under pressure connected with said expansible chamber device at one side of said movable element continuously applying fluid under pressure to said one side of said movable element during said constant speed operation, pressure regulating means connected with said expansible



chamber device at said one side of said movable element and with said source of fluid for maintaining the fluid pressure applied to said one side of said movable element substantially constant at a predetermined value, means for applying fluid at a higher pressure to the opposite side of said movable element, and means for controlling the application of said fluid at said higher pressure to said movable element without affecting the application of fluid at said substantially constant pressure thereto.

2,280,715
AERONAUTICAL WHEEL
Robert J. McLaughlin, Brooklyn, N. Y.
Application October 4, 1940, Serial No. 359,801
7 Claims. (Cl. 170—141)



1. A propulsion means comprising an outer revolvable annular frame having spaced sides including rims, supports for said frame, a fixed axis, oppositely pitched propellers forming parts of said sides and journaled on the supports and axis, said propellers, providing an annular enclosure therebetween, transverse blades connecting said rims; an inner frame rigid with said axis, and having spaced annular rim plates near said rims, a semi-cylindrical partition connecting portions of said plates and providing a chamber between the path of the blades and one side of said enclosure, and baffle blades connecting said plates on the opposite side of said enclosure.

2,280,716
FUEL FOR INTERNAL COMBUSTION ENGINES
Henry C. Paulsen, Elizabeth, and John O. Collins, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application October 28, 1939, Serial No. 301,730
2 Claims. (Cl. 44—9)

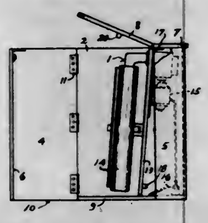
1. A compression-ignition engine fuel comprising a hydrocarbon Diesel fuel oil, 0.1% to 5% of nitrogen tetrasulfide, and an amount of 1-mercaptobenzothiazole effective to substantially lessen the normal deterioration of the said nitrogen tetrasulfide.

2,280,717
REINFORCED LINK FOR ANTISKID CHAINS
John R. Reyburn, Fairfield, Conn., assignor to American Chain & Cable Company, Inc., New York, N. Y., a corporation of New York
Application November 10, 1939, Serial No. 303,751
4 Claims. (Cl. 152—243)



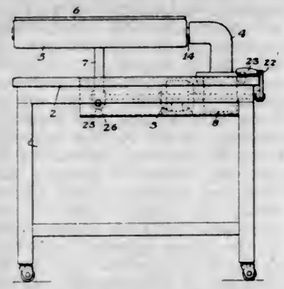
3. In an anti-skid device, a link comprising side strands and end connecting loops, and a trough shaped reinforcement provided with diverging side walls of substantial thickness and a bottom wall of less thickness, said side walls and bottom wall being connected by surfaces conforming to the transverse shape of the adjacent faces of the side strands and having one of their edges lying in the plane of one face of the bottom wall and their other edges lying in a plane extending through the side strands, said reinforcement being welded to said side strands along said curved surface at the junctures of said bottom and side walls.

2,280,718
IRONER CABINET
Hugh M. Rumbaugh, Pittsburgh, Pa.
Application March 28, 1940, Serial No. 326,423
9 Claims. (Cl. 312—22)



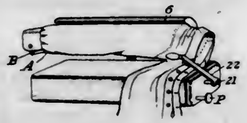
8. In combination, a cabinet, an ironing machine housed therein, said cabinet being in first and second sections, said first section being mounted for movement relative to the second section to enable the ironing machine to be moved to an extended position, means whereby the ironing machine is mounted adjacent one end on the second section, the first section including a portion normally disposed across the front of the cabinet and disposable in open position beneath the said ironing machine and in supporting relation to the latter.

2,280,719
IRONER
Hugh M. Rumbaugh, Pittsburgh, Pa.
Application July 18, 1940, Serial No. 346,119
5 Claims. (Cl. 38—60)



1. In a shirt ironer of the character described, a cylindrical rotatable ironing roll having an external diameter not exceeding 4¾ inches, a support at one end thereof approximately of a girth throughout a major portion of its length not exceeding the diameter of said roll, said roll and support being externally unobstructed so as to enable drawing thereover a sleeve of a man's shirt of normal range of sizes, whereby a sleeve and the body portion of said shirt may be telescoped over and gathered or bunched along said support while the other sleeve of said shirt surrounds the roll in position to be ironed, the construction thereby enabling successive changes in the positioning of the shirt relative to the roll so that single-thickness ironing of the sleeves and a complete ironing of all other portions of the shirt is attained.

2,280,720
METHOD OF IRONING GARMENTS
Hugh M. Rumbaugh, Pittsburgh, Pa.
Original application July 18, 1940, Serial No. 346,119. Divided and this application November 12, 1940, Serial No. 365,190
6 Claims. (Cl. 38—144)



1. The method of ironing a man's shirt on an ironing machine of the type including a shoe, an open end roll, and a housing enclosing power drive connections to and providing total support for said roll at the other end thereof, comprising, in sequence, the following steps: first, drawing one sleeve telescopically over the roll and housing, and bunching and gathering said sleeve together with the body of the shirt around the housing, with the other sleeve surrounding said roll in telescopic relation, then performing an ironing operation on said other sleeve; then shifting the last mentioned sleeve along the roll to dispose portions of the body of the shirt thereon, with the first mentioned sleeve remaining telescoped and gathered over said housing, then ironing said portions of said shirt body; and then shifting said body of the shirt off the roll to dispose the first mentioned sleeve therearound and performing an ironing operation thereon.

2,280,721
PROCESS OF DEVELOPING PHOTOGRAPHIC PICTURES
Andreas Schilling and Wilhelm Schneider, Dessau, and Gustav Wilmanns, Wolfen, Kreis Bitterfeld, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application November 14, 1939, Serial No. 304,321. In Germany November 24, 1938
3 Claims. (Cl. 95—88)

1. In a process of producing color photographic pictures by color-forming development the step which comprises immersing the color photographic element immediately after the development thereof in a stopping bath containing a buffer solution of an acidic salt of a polybasic organic acid the pH-value of a solution of said salt being higher than 3.

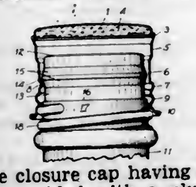
2,280,722
COLOR PHOTOGRAPHY
Wilhelm Schneider and Alfred Frölich, Dessau, Germany
No Drawing. Application July 13, 1939, Serial No. 284,250. In Germany July 14, 1938
3 Claims. (Cl. 95—6)

1. An unexposed silver halide gelatine emulsion containing a color former which though soluble in aqueous liquids is fast to diffusion in gelatine, said component containing at least one substituent having a chain of the general formula $(—A—X—)_n$, wherein A is alkylene, X is a heterogroup selected from the class consisting of —O—, —NR—, and —S—, R being H, alkyl and n is more than 5.

2,280,723
PURIFICATION OF STARCHES
Thomas John Schoch, New York, N. Y., assignor to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application March 18, 1939, Serial No. 262,781
8 Claims. (Cl. 127—71)

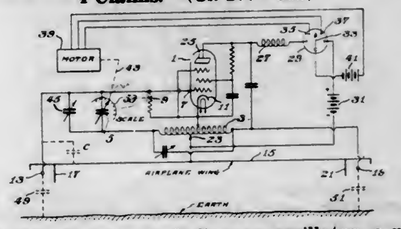
4. Process of purifying starch of its fatty acids without hydrolysis of the starch which comprises suspending the starch in a hydrophilic fatty acid solvent capable of penetrating the starch granules to dissolve the fatty acids therein, heating and refluxing the material and filtering the same to remove the solvent and fatty acids.

2,280,724
CLOSURE AND CONTAINER
John E. Sharp, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application July 23, 1940, Serial No. 346,934
6 Claims. (Cl. 215—43)



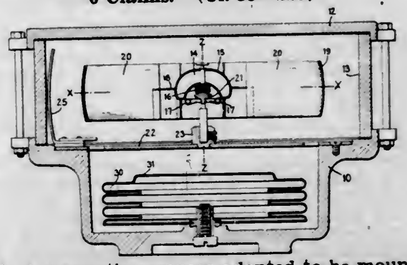
3. A cup-like closure cap having a flexible depending skirt provided with a plurality of circumferentially arranged and inwardly extending detents, and thread-like configurations therebelow, in combination with a container having near the mouth thereof a bead of slightly greater diameter than the minimum inside diameter of the cap skirt in the plane of said detents, and therebelow thread-like configurations adapted to engage those of said skirt, whereby said cap is secured in sealing relationship to said container by engagement of said thread-like configurations of said cap and container, and subsequently is held against axial movement mouthward in a more elevated position solely by said bead and detents, from which position the cap may be completely removed by a mouthward pull inducing flexure of said skirt.

2,280,725
SELF-BALANCING CAPACITY ALTIMETER
Francis H. Shepard, Jr., Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 30, 1938, Serial No. 243,171
4 Claims. (Cl. 177—352)



1. An altimeter including an oscillator, a pair of capacitors connected to said oscillator for varying the amplitude of oscillation thereof, the capacity of one of said capacitors being a function of its altitude above ground, the capacity of the other of said capacitors being variable, means responsive to a change in the amplitude of oscillation due to a change in said one capacitor for varying said other capacitor to produce an effect on the amplitude of oscillation equal and opposite to the effect produced by said change in said one capacitor, and means for indicating said altitude as a function of the capacity of said variable capacitor.

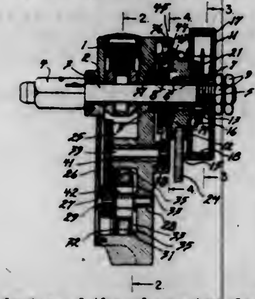
2,280,726
MAGNETIC COMPASS
Elmer A. Sperry, Jr., New York, N. Y., assignor to Sperry Products, Inc., Hoboken, N. J., a corporation of New York
Application June 10, 1939, Serial No. 278,443
6 Claims. (Cl. 33—223)



1. A magnetic compass adapted to be mounted upon a craft, said compass comprising a casing filled with liquid, a magnetic meridian seeking element, and means for supporting said element in said liquid, said element having means for increasing the period about the vertical axis with-

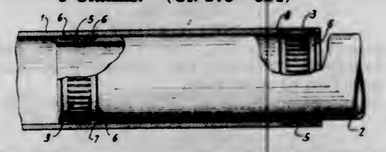
out substantially increasing the moments of inertia about the horizontal axes, said means comprising means tending to move the liquid enclosed within the element bodily with said element during movements of the element around the vertical axis but adapted to move relative to said liquid enclosed within the element during movements of the element around the horizontal axes.

2,280,727
DRIVING MECHANISM
Bruno Steehbart, Chicago, Ill., assignor to The Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application April 19, 1939, Serial No. 268,848
10 Claims. (Cl. 242—55)



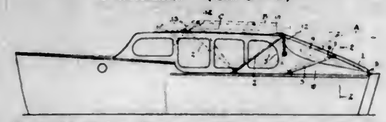
1. In a device of the character described, the combination with a rotatable driven radially winding strip take up reeling member, of a yielding slip driving device therefor, a speed responsive device driven by said driving device, and a variable brake device under the control of said speed responsive device and operative to vary the power output transmitted by said driven member in inverse correspondence with the speed thereof.

2,280,728
TELESCOPING HIGH FREQUENCY ELECTRICAL CONDUCTOR
Albrecht Streib, Port Jefferson Station, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application November 24, 1939, Serial No. 305,871
5 Claims. (Cl. 173—324)



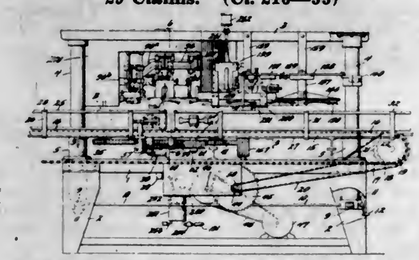
5. In a high frequency electrically conducting system, a cylindrical electrical conductor, an electrically conducting element adapted to engage said conductor and be movable relative thereto, a resilient metallic ribbon located between said conductor and said element, said ribbon having transverse cuts intermediate the edges and so formed as to produce along the length of said ribbon a multiplicity of centrally located bulging successive contact areas terminated at the edges by flat flange-like surfaces, said flange-like surfaces directly engaging the inner surface of said cylindrical conductor and said bulging areas directly engaging said element, said cylindrical conductor being undercut in its interior surface to accommodate the flat surfaces of said ribbon, said multiplicity of contact areas being of sufficient number and closely spaced to provide a substantially uniform contact surface around the periphery of said element, and another similarly constructed resilient ribbon also located between said cylindrical conductor and said conducting element but spaced apart from said first ribbon, the flange-like surfaces of said second ribbon directly engaging said element while the bulging areas of said second ribbon directly engage the inner surface of said cylindrical conductor, said element being undercut to accommodate the flat surfaces of said second ribbon.

2,280,729
MOVABLE CANOPY AND COCKPIT COVER
Oscar P. Sutton, Euclid, Ohio
Application June 23, 1939, Serial No. 280,821
6 Claims. (Cl. 9—1)



1. In a boat having a cabin and a cockpit, said cabin having sidewall portions and a roof portion, said cockpit being normally open and being located immediately adjacent and to the rear of said cabin; a canopy supporting link members pivotally connected to said canopy at opposite sides thereof, and means pivotally connecting each of said link members to said boat, whereby said canopy be moved from a horizontal position over the roof of said cabin to a horizontal position over said cockpit, to provide a roof over said cockpit.

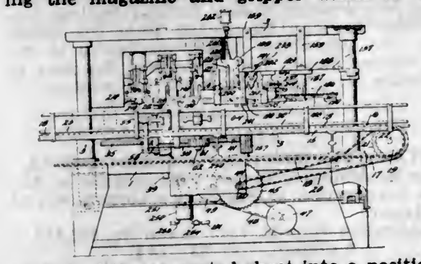
2,280,730
BOTTLE STAMPER
Richard C. Talbot, Durham, N. C., assignor to Wright's Automatic Tobacco Packing Machine Company, Durham, N. C., a corporation of North Carolina
Application August 3, 1940, Serial No. 350,782
29 Claims. (Cl. 216—55)



1. A bottle stamper comprising means for advancing bottles continuously, means for feeding stamps and for suspending them by their ends across the tops of the bottles while they are advancing, and means for applying and affixing the stamps to the tops of the bottles and for holding the stamps in affixed relation while the bottles are advancing.

2,280,731
SHEET FEEDING AND TRANSFERRING MEANS
Richard C. Talbot, Joliet, Ill., assignor to Wright's Automatic Tobacco Packing Machine Company, Durham, N. C., a corporation of North Carolina
Original application August 3, 1940, Serial No. 350,782. Divided and this application March 12, 1941, Serial No. 383,035
18 Claims. (Cl. 271—12)

1. Sheet feeding means comprising a magazine to contain a stack of sheets, a rotatable gripper wheel, means for separating a sheet from the stack in the magazine, means for relatively moving the magazine and gripper wheel to bring



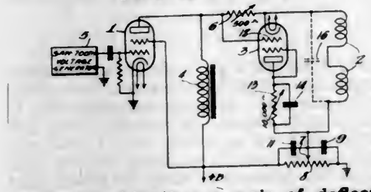
an end of the separated sheet into a position to be gripped by the gripper wheel, and means for rotating the gripper wheel unidirectionally to engage said sheet and remove it from the magazine.

2,280,732
CONVERTIBLE ROCKING CHAIR
Martin Thum, Rochester, N. Y.
Application January 31, 1940, Serial No. 316,645
4 Claims. (Cl. 155—73)



4. In a convertible rocking chair construction, a chair body having a base structure including a pair of side rails, a relatively short protuberance depending from each side rail medially thereof at a region slightly rearwardly of the center of gravity of the chair, said protuberances providing a substantially fixed horizontal fulcrum axis upon which the chair is pivoted for tilting movement, legs depending from the base structure in the forward regions thereof, said protuberances and legs serving to support the side rails and maintain the same spaced above the supporting surface on which the chair is mounted in the normal position of the latter, the portions of said rails rearwardly of the protuberances being adapted for contact with the supporting surface to limit the rearward tilting movement of the chair.

2,280,733
DEFLECTING CIRCUITS
William A. Tolson, Westmont, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 30, 1939, Serial No. 282,276
5 Claims. (Cl. 250—27)



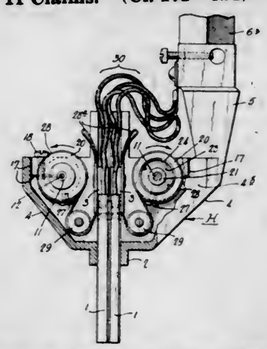
1. In combination, a pair of deflecting coils, an output tube having a plate circuit coupled to said coils for supplying deflecting current thereto, a variable impedance device connected effectively across said coils, and means for varying the impedance of said device in accordance with the total alternating current output of said output tube.

2,280,734
CYCLE HITCH
Harold B. Tyler, Memphis, Tenn.
Application November 6, 1939, Serial No. 303,117
7 Claims. (Cl. 280—292)



1. A connecting clamp for coupling a towed vehicle to the rear bumper guard of a towing vehicle, said clamp comprising a reclining U-shaped element providing upper and lower rearwardly projecting arms, a first jaw projecting forwardly from said U-shaped element for engagement with the upper edge of the bumper bar, a companion jaw consisting of a vertical rod movably traversing said arms and having a forwardly projecting radial member arranged to engage the lower edge of said bumper bar, tightening means operating between said U-shaped element and said vertical rod for contracting and holding the jaws in engagement with the edges of said bumper bar, a vertical king pin connected to the free end portions of said arms for rotation only on a vertical axis, a pair of laterally and oppositely projecting axially aligned pintles on one of said vertical king pin.

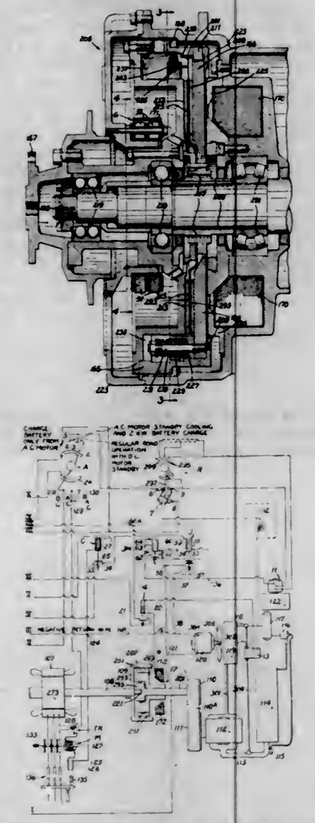
2,280,735
BRUSH HOLDER AND TENSION DEVICE
Harry Weissinger, Philadelphia, Pa.
Application September 23, 1941, Serial No. 412,045
11 Claims. (Cl. 171—324)



2. A brush holder comprising a frame structure including a brush box and a housing disposed at least at one side of said brush box, a shaft supported by said housing, a roller member rotatably mounted on said shaft, an idler roll rotatably supported by the housing adjacent the brush box and offset from the roller member in

the direction of thrust to be exerted upon a brush positioned in the brush box, a pressure block slidable within said brush box and arranged to engage upon the end face of such brush, an elongated flexible element having its opposite ends connected respectively to said pressure block and the roller member with its intermediate portion passing about said idler roll, spring means constructed and arranged to urge said roller member in a predetermined direction of rotation tending to wind the elongated flexible element thereon and thereby exert a pull on the latter urging the said pressure block against the brush in the brush box, and means operable at will for varying and regulating the force of said spring means and consequently the pressure exerted by the block upon the brush.

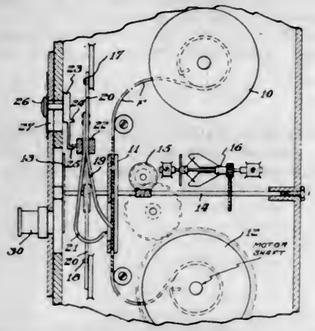
2,280,736
AIR CONDITIONING AND LIGHTING SYSTEM FOR VEHICLES
Martin P. Winther, Waukegan, Ill., assignor to Martin P. Winther, as trustee
Application April 11, 1938, Serial No. 201,336
15 Claims. (Cl. 62—6)



2. A clutch comprising a driving plate, a driven plate, spring means for normally forcing said driving plate against the driven plate with a predetermined pressure, centrifugally-responsive means adapted to force said driving plate with more pressure against the driven plate, and electromagnetic means adapted to pull said driving plate away from the driven plate to open the clutch.

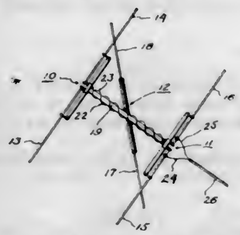
7. The combination of a load, a motor for driving the load, a source of energy for furnishing power to the motor, means for starting the motor with the load disengaged from the motor drive, and time-delay means responsive to the first named means for connecting the load to the motor drive after the motor is operating.

2,280,737
REVERSIBLE MOTION PICTURE CAMERA
James R. Alburger, Merion, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application June 26, 1940, Serial No. 342,410
2 Claims. (Cl. 88—18.4)



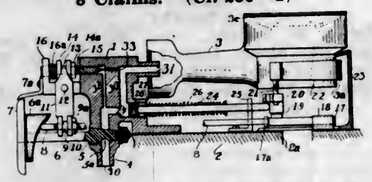
1. Intermittent feed mechanism including a movable plate having a spring claw thereon for moving film in one direction, a second claw on said plate for moving film in the opposite direction, means carried by said plate and cooperating with said claws for selectively retracting either of said claws, and means normally stationary relative to said plate for controlling said means.

2,280,738
DIRECTIONAL ANTENNA
Charles N. Bace, River Edge, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware
Application November 27, 1940, Serial No. 367,358
5 Claims. (Cl. 250—11)



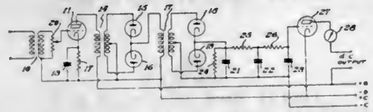
1. The combination with a directional receiving antenna and reflector associated therewith, of a trap in the form of a dipole supported in proximity to and electrically coupled but not directly connected by a conductor to said antenna and reflector, said trap being tunable to a frequency in the frequency-range to which said antenna responds, said trap being adjustable with respect to said antenna and reflector both angularly and at different distances therefrom.

2,280,739
GAS BURNER AND CONTROL UNIT THEREFOR
James William Ball, Logansport, Ind.
Application February 29, 1940, Serial No. 321,492
8 Claims. (Cl. 236—1)



3. A fuel burner and a control unit therefor comprising an exposed burner, a fuel supply line for supplying fuel to said burner, a main control valve in said supply line, a thermostatically controlled valve in said supply line, a thermally operable member having one end connected with said thermostatically controlled valve and its opposite end disposed in close proximity to said burner and operable by the heat conducted through said burner to restrict but to maintain a reduced flow of fuel to said burner, a by-pass in said fuel supply line leading around said thermostatically controlled valve, a valve in said by-pass, a handle for operating said main control valve, and means providing operable connections between said handle and the valve within said by-pass for maintaining a definite relation between the setting of the main control valve and said by-pass valve.

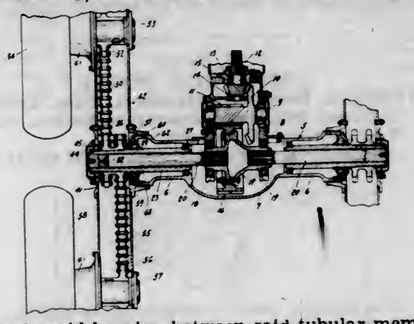
2,280,740
SOUND RECORDING APPARATUS
Herbert Belar, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application March 30, 1940, Serial No. 326,636
7 Claims. (Cl. 179—100.3)



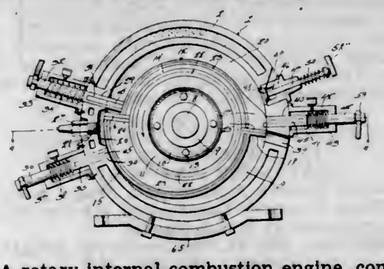
1. An amplifier of the type described having an A.-C. input and a D.-C. output corresponding to the envelope of the A.-C. input, said amplifier including at least one amplifying stage, a filter, and at least one frequency doubler preceding said filter, said filter circuit having such characteristics that it will not properly filter A.-C. input frequencies of the order of 50 cycles but will adequately filter the doubled frequencies applied thereto.

2,280,741
AXLE
Ronald H. Bolster and Glen C. Vanderberg, Buchanan, Mich., assignors to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application October 21, 1939, Serial No. 300,526
9 Claims. (Cl. 180—22)

1. In an axle assembly, a housing arm terminating in an enlarged external bearing portion, a tubular member rotatably journalled in said arm and having internal and external splines at the outer end thereof, an axle shaft within said tubular member and having splined engagement with the end thereof, a wheel supporting housing rotataby journalled on the bearing portion of said arm and the outer end of said tubular member, wheels rotatably journalled in opposite ends of said housing, and fore and aft driving connections in said housing between said tubular member and said wheels.



2,280,742
ROTARY INTERNAL COMBUSTION ENGINE
Oliver O. Bowers, Cape Girardeau, Mo., assignor of one-third to Joe D. James and one-third to Norman W. Day, both of Cape Girardeau, Mo.
Application August 17, 1940, Serial No. 353,135
1 Claim. (Cl. 123—14)



A rotary internal combustion engine, comprising a circular casing having an annular peripheral wall, a shaft extending axially through the casing, means forming a combustion pocket in the inner face of the annular wall and directed into the casing, a rotor supported in the casing on said shaft and having a periphery spaced through the major portion of its extent from the annular wall, means forming a radially extending power piston body upon the rotor periphery which has contact with the inner surface of the annular wall, a fuel suction piston body extending radially from the rotor periphery to and contacting the inner surface of the annular wall substantially diametrically opposite from the first piston, a pair of radially shiftable abutment valves mounted for extension through the annular wall toward said rotor periphery and having said combustion pocket located therebetween, a radially shiftable abutment valve movable through said wall toward the rotor periphery and disposed opposite from the first valves, means forming an exhaust port between the last-mentioned valve and one of said first valves, a valved fuel inlet port opening into the casing adjacent to the last mentioned radially shiftable valve and upon the opposite side of the same from the exhaust port, and control mechanism for said valves by which that one of the pair of abutment valves nearest the exhaust port is open while the power piston is receiving a power impulse and the adjacent valve is closed, and the said last mentioned valve is closed immediately after the fuel suction piston has moved

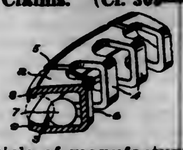
past it toward the inlet port and the inlet port valve is opened immediately after the passage of the fuel suction piston on its suction stroke.

2,280,743
PISTON RING DEVICE
Thomas A. Bowers, Mattapoisett, Mass., assignor to Power Research Corporation, Boston, Mass., a corporation of Massachusetts
Application July 5, 1941, Serial No. 401,187
5 Claims. (Cl. 309—45)



1. A radially and circumferentially flexible piston ring comprising a plurality of segments of piston ring material contiguously arranged to form annular rows, web portions for connecting segments of one of the rows in superimposed relation with respect to segments of another of the said rows, said web portions extending radially inward of the ring and being circumferentially spaced apart, each of said rows of segments having radially disposed openings occurring between constituent segments, said openings being offset to provide portions in adjacent segments which overlap one another, the openings occurring between segments of one of the said rows being arranged in staggered relation with respect to the openings occurring between segments of the other of the said rows, and each of said webs having axially spaced-apart portions.

2,280,744
SCAVENGER PISTON RING
Thomas A. Bowers, Mattapoisett, Mass., assignor to Power Research Corporation, Boston, Mass., a corporation of Massachusetts
Application July 14, 1941, Serial No. 402,318
17 Claims. (Cl. 309—45)



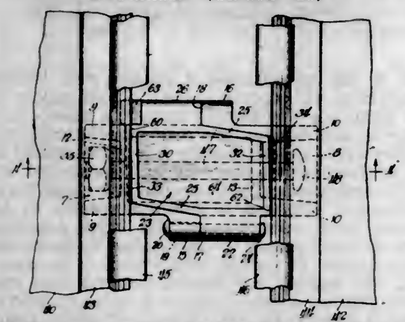
1. As an article of manufacture an oil metering ring construction comprising a ring member having a circumferentially extending groove at the outer periphery thereof and a plurality of spherical scavenger elements loosely disposed in the groove.

2,280,745
SLOTTED PISTON RING
Thomas A. Bowers, Mattapoisett, Mass., assignor to Power Research Corporation, Boston, Mass., a corporation of Massachusetts
Application August 20, 1941, Serial No. 407,576
9 Claims. (Cl. 309—44)



1. A circumferentially and radially flexible piston ring comprising a plurality of layers of piston ring material, each of said layers being separated by overlapping openings which form circumferentially movable segments and connecting portions for the segments, said connecting portions occurring in circumferentially spaced apart relation and being of a generally U-shaped cross section, a plurality of filler elements mounted in spaced-apart relation adjacent the said circumferentially movable segments.

2,280,746
WHEEL
Frederick W. Burger, Niles, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application November 30, 1939, Serial No. 306,793
22 Claims. (Cl. 301—13)



21. In combination, a wheel body having a plurality of radially extending spokes, axially oppositely directed seats on the end of each spoke, a pair of tire rims, clamping means on said seats and engaging said rims for moving them axially on said seats, spacing means between said rims having abutment surfaces on opposite faces thereof respectively engaged by said rims, said surfaces being parallel to each other and extending angularly relative to a radial plane normal to the axis of the wheel and means on said spoke end holding said spacing means against axial movement relative to said spoke end whereby said rims are spaced apart thereby and held in parallel planes normal to the axis of said wheel body.

2,280,747
SOCKET
Guy H. Burt, Edgewood, R. I.
Application February 21, 1941, Serial No. 380,023
1 Claim. (Cl. 173—328)

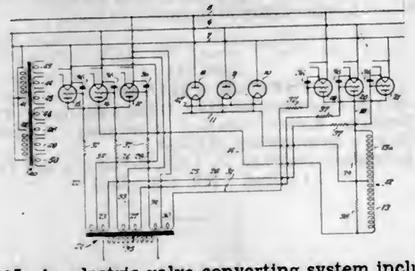


A contact element comprising a sheet metal body portion having a pair of sheet metal arms lying in a common plane and extending from the body with free ends, both of said arms being enlarged at their free ends, one of said arms being straight and the other of said arms being arcuate in shape and directed away from the straight arm as it extends from the body and then approaching the free end of the straight arm to provide a relatively large opening adjacent the juncture of the arms with the body and a more restricted space between the arms along their free end portions, said space being so restricted as to cause the bordering edges to grip a pin when positioned in said space, and notches in the edges of said arms along said restricted space, the edges of said arms forming said opening being curved to guide the movement of a pin positioned in said opening to the restricted space between said arms.

2,280,748
ISOMERIZATION OF NORMAL PARAFFINS
Van B. Calhoun, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 28, 1939, Serial No. 311,283
10 Claims. (Cl. 260—676)

1. In a process for isomerizing normal paraffin hydrocarbons having a boiling range not higher than that of a straight run naphtha with a Friedel-Crafts type catalyst, wherein the paraffins to be isomerized are contacted with said catalyst in an isomerizing zone; the improvement in said process which comprises activating said catalyst by introducing a small proportion of free halogen into said isomerizing zone.

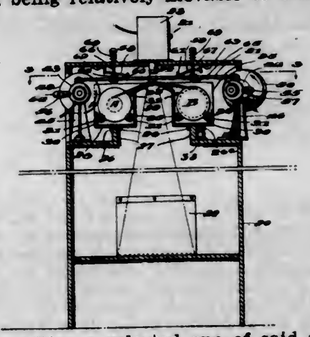
2,280,749
ELECTRIC VALVE CONVERTING SYSTEM
Dudley B. Clark, Palm Springs, Calif., assignor to General Electronics Corporation, Long Beach, Calif., a corporation of Nevada
Application November 28, 1940, Serial No. 367,601
15 Claims. (Cl. 172—281)



15. An electric valve converting system including an alternating current supply circuit, a plurality of load circuits, a group of diodes, a plurality of groups of triodes, there being one valve in each group of diodes and triodes for each line of said supply circuit, each of said diodes connecting one of said supply lines to one side of each of said load circuits, each triode of one of said groups connecting one of said lines to the other side of one of a pair of said load circuits, each triode of a second group connecting one of said lines to the other side of the other of said pair of circuits, each triode of a third group connecting one of said lines to the other side of one of a second pair of said load circuits and each triode of a fourth group connecting one of said lines to the other side of the other of said second pair of load circuits, means for rendering said first mentioned group and said second group of triodes conductive in alternation while said diodes are continuously conductive to cause impulses of a predetermined frequency to traverse first one of said first mentioned pair of load circuits and then the other, and means for rendering said third and fourth groups of triodes conductive in alternation to cause impulses of a different frequency to traverse first one of said second pair of load circuits and then the other.

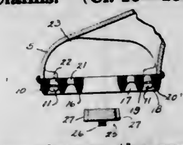
2,280,750
FILM LIVE-FILING SYSTEM
Merton L. Emerson, Braintree, Mass.
Application April 30, 1940, Serial No. 332,615
16 Claims. (Cl. 88—24)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a device of the class described, in combination, a support, film-viewing means carried by said support, said support having a rack-receiving space, a rack carrying a group of independently rotatable pairs of film spools mounted in relatively fixed special positions therein, each pair having a film-record mounted thereon and bridging therebetween, said film-viewing means and rack being relatively movable to bring into



viewing position a selected one of said grouped film-records, means for positioning the bridging portion of the selected film record in viewing relation to said film-viewing means, and means for moving the selected film-record only from one to the other of its pair of spools for positioning in viewing relation a particular frame to be viewed.

2,280,751
VACUUM CLEANER NOZZLE
Helen L. Davis, Kenosha, Wis.
Application July 7, 1939, Serial No. 283,143
5 Claims. (Cl. 15—158)

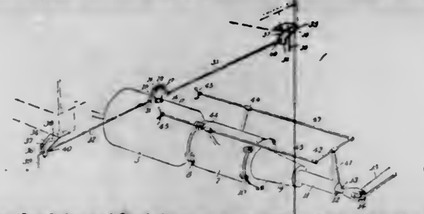


1. In a vacuum cleaner, the combination with a vacuum head, of a bottom closure plate therefor of electrostatically chargeable material provided centrally with a through opening communicating with said vacuum head and having on its under surface an inner rib about said opening and at least one additional rib spaced from said inner rib to provide a downwardly opening intervening channel, said plate having a plurality of additional openings from said channel to said vacuum head, whereby to establish a zone of approximately constant pressure between said rib means, together with a brush removably positioned in said central opening and provided with a back having apertures affording air movement through said opening.

2,280,752
LOCKING DEVICE FOR BRAKE BLEED VALVES
James E. Bryant, Escalon, Calif.
Application March 6, 1941, Serial No. 382,066
3 Claims. (Cl. 303—80)

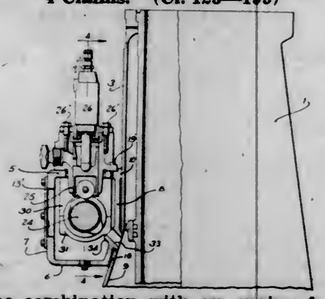
1. The combination with an auxiliary brake reservoir of a railway car having a normally closed drain valve, a cylinder communicating with one end of said reservoir, and a piston carrying rod operating in said cylinder, of a pull rod having one end rockably mounted for operating said drain valve, a guide bracket at the side of

the car provided with a slot through which the pull rod extends, said rod adapted to be pulled outwardly through said slot for opening the drain valve, means on said rod for locking the same in said slot, means attached to and operating with said piston rod for releasing said locked rod, said means including a vertically extending arm



attached to said piston rod, a cross bar attached to said arm, a transverse bar carried by said cross bar and slidable through guide members on said cylinder, and a member carried by the free end of said transverse bar for contact with the locked rod as the piston rod is drawn within said cylinder upon the reduction of air in said reservoir.

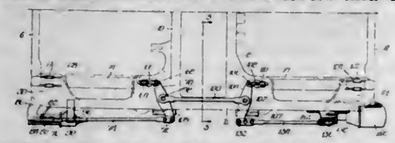
2,280,753
HOUSING AND SUPPORT FOR ENGINE CAMSHAFTS
Max Essl, Norwood, Pa., assignor, by mesne assignments, to The Baldwin Locomotive Works, a corporation of Pennsylvania
Application December 22, 1939, Serial No. 310,511
4 Claims. (Cl. 123—195)



1. The combination with an engine frame of the type having a multiplicity of cylinders in line with each other, of means providing a longitudinally extending horizontal supporting surface provided with a plurality of openings, a camshaft disposed to one side of said supporting surface, brackets removably supported on and secured to said horizontal supporting surface, and each bracket having as a self-contained part thereof a single camshaft bearing which extends through one of said openings.

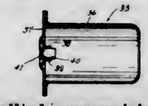
2,280,754
BRAKE ARRANGEMENT
Norman Flesch, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application July 26, 1940, Serial No. 347,608
21 Claims. (Cl. 188—56)

1. In a brake arrangement for a railway car truck, a frame comprising side members and end rails, spaced supporting wheel and axle assemblies, brackets suspended from the corners of said frame at opposite ends thereof, power means supported from said brackets at one end of said frame, slack adjuster means supported from said brackets at the opposite end of said frame, and brake rigging for each side of the truck comprising hanger levers supporting brake heads and brake shoes outwardly of the wheels, hangers supporting live truck levers with brake heads and brake shoes intermediate the wheels, straps connecting the hanger levers and live truck levers associated with each wheel, and interconnected live and dead cylinder levers connected at their inboard ends to said live truck levers and oper-



atively connected at their outboard ends respectively to said power means and slack adjuster means, the connection between said dead cylinder lever and said slack adjuster comprising a vertically disposed dead slack adjuster lever swingably fulcrumed intermediate its ends from said frame and connected at its lower end to said slack adjuster, and an operative connection between the upper end of said slack adjuster lever and said dead cylinder lever.

2,280,755
THERMIC TELLTALE
Homer L. Hexamer, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application October 28, 1939, Serial No. 301,715
3 Claims. (Cl. 116—106)



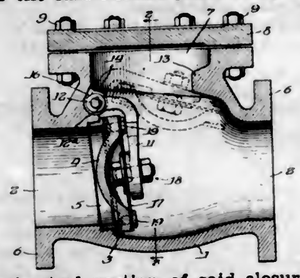
1. A thermic telltale comprising a sheet metal cup adapted to contain a signaling material, a sheet metal cover for said cup permanently united to the open end thereof to provide a leakproof closure therefor, said cover having a flanged opening extending therethrough in communication with the interior of said cup, and a fusible seal fitting within and closing said flanged opening in said cover.

2,280,756
REGULATING THE GROWTH OF PLANTS
Albert J. Saukaitis, Wayne, Pa., assignor to American Chemical Paint Company, Ambler, Pa., a corporation of Delaware
No Drawing. Application September 6, 1939, Serial No. 293,615
6 Claims. (Cl. 71—2)

1. A composition prepared for use for regulating the growth of plants, said composition containing as an essential ingredient alpha naphthylthioacetamide.

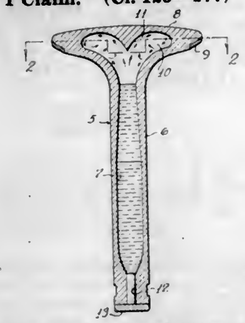
2,280,757
VALVE
Watt V. Smith, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application May 1, 1940, Serial No. 332,639
2 Claims. (Cl. 251—123)

2. A check valve comprising a housing having a fluid passageway and a concavo-convex closure member therefor, a hinge mounting for the said closure member, a flexible plate positioned between said hinge mounting and the concave face of the said closure member, the said hinge mounting being firmly attached to the central portion of the said flexible plate, the perimetral portion of the said flexible plate being attached



to the perimetral portion of said closure member, whereby the inward flexing of the said flexible plate during the closing operation is accommodated within the concave face portion of the closure member.

2,280,758
HOLLOW VALVE STRUCTURE
Carl Voorhies, Detroit, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application March 7, 1941, Serial No. 382,141
1 Claim. (Cl. 123—177)



A valve having a head and integral stem portion with communicating cavities therein, the stem cavity being axially disposed and extended substantially to the lower end of the stem and the head cavity extended transversely thereacross, said cavities being adapted to receive a coolant medium partially filling the same and which is liquid at the normal working temperature of the valve to permit circulation thereof under operating conditions, said head cavity in said valve having an end wall with a central depending conical portion with its apex in line with axis of the stem cavity, and said stem cavity having an upper end of reduced cross section to localize and direct coolant medium toward said conical apex thereabove, whereby coolant medium in motion during operating conditions of the valve is caused to be deflected outward by said cone toward the upper and outer regions of the head cavity and return flow is urged to adjacent the lower outer cavity walls.

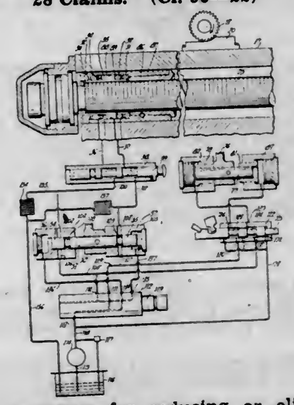
2,280,759
ADJUSTABLE FISH POLE CLEAT
Edward H. Kruse, Fort Wayne, Ind.
Application May 31, 1940, Serial No. 338,212
4 Claims. (Cl. 43—24)

1. In a take-up appliance for a fish line, a fish pole, cleat members each formed of spring wire shaped to have at one end an extending arm provided with an eye at its extremity, its opposite end being downturned terminating with a catch, and provided with an intermediate loop, said



loop and downturned end extending adjustably through a corresponding slot and an opening respectively made in said pole, and retaining pins disposed transversely in the pole engaging the corresponding loops.

2,280,760
BACKLASH ELIMINATOR FOR MACHINE TOOLS
Mario E. Martellotti, Cincinnati, Ohio, assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio, a corporation of Ohio
Application April 25, 1938, Serial No. 204,005
28 Claims. (Cl. 90—22)

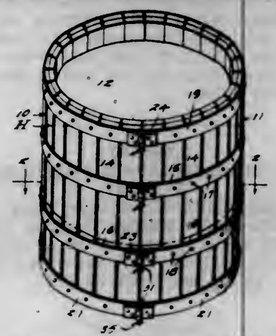


20. In a means for reducing or eliminating backlash between two machine elements the combination of members relatively movable in accordance with backlash between said elements to increase the volume of a restricted space, means for supply of liquid to said space, and means preventing escape of liquid from said space except at a relatively slow rate.

2,280,761
HOGSHEAD
Ralph S. McConnell, Norfolk, Va.
Application December 1, 1938, Serial No. 243,473
1 Claim. (Cl. 217—44)

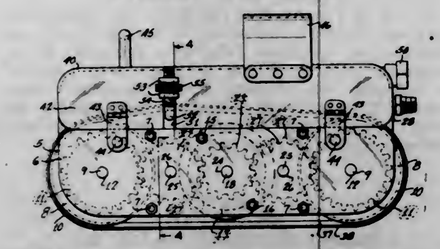
A knockdown hogshead comprising a pair of oppositely disposed side wall sections of like form each consisting of a set of spaced endwise aligned parallel straight staves of corresponding length and width, spaced metallic superposed bendable bands of like form having intermediate portions positioned against the outer sides of those staves other than the end staves of the set, each band having angle-shaped terminal portions offset with respect to its intermediate portion and spaced from the outer sides of the end staves of the set, means for securing said intermediate portions to the staves against which they are positioned, a connector member endwise abutting, overlapping and extended laterally from each end terminal of a band and bearing against the outer side of an end stave and the outer side

of a terminal portion, means for securing each member to a terminal portion and an end stave, means for detachably connecting the connector members of one side wall section to the connector members of the other side wall section, superposed spaced liners positioned against the end terminal portions of the inner face of each stave of each set, means engaging in a stave and in the liners arranged against the inner face of



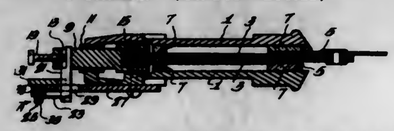
such stave for securing them together, head members removably engaging the inner edges of said liners when the side wall sections are detachably secured together, the liners on one stave of a set being spaced from the liners on adjacent staves of the set, and the holdfast means for securing the intermediate portion of certain of said bands to the staves of said sections permanently engaging in said liners.

2,280,762
POLISHING AND FINISHING TOOL
Jesse B. Phipps, Jefferson City, Mo., assignor of one-fourth to Beecher Coleman, Jefferson City, Mo.
Application December 18, 1940, Serial No. 370,679
5 Claims. (Cl. 51—170)



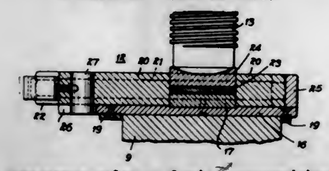
1. In a power driven wet-sanding machine comprising a casing having a hinged top and side walls, one wall being wider than the opposite parallel wall and carrying a hinge for said hinged top, said top having a depending flange of a length equal to the difference between the aforesaid side walls, spray means mounted in said top, rollers journalled in parallel relation in the said side walls and extending below the bottom edges of the side walls, a tread belt mounted over the rollers, an abrasive belt mounted over and around the tread belt, power driven means to rotate said rollers and move said abrasive belt around beneath the spray means during the abrading operation and an adjustable tension regulating bar having an end mounted in said depending flange of the hinged top and an end mounted in said wider side wall extending transverse and beneath the tread belt.

2,280,763
PHONOGRAPHIC APPARATUS
Harold J. Hasbrouck, Jr., Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 30, 1940, Serial No. 326,896
6 Claims. (Cl. 179—100.41)



1. In a signal translating device adapted to cooperate with a phonograph record, the combination of an oscillatably mounted yoke member having a free end, a rigid arm secured to said yoke member adjacent the free end thereof, and a thin needle formed of wire secured to said arm and extending forwardly thereof, said needle having a bend therein adjacent its free end to provide an offset needle tip adapted to track the record groove, and said needle being substantially rigid torsionally whereby it is adapted to oscillate said yoke member but being flexible in planes both parallel with and normal to the cooperating record.

2,280,764
PRESSURE-RELEASE MECHANISM
Thomas I. Stephenson, Jr., Maryville, Tenn., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 8, 1939, Serial No. 278,071
4 Claims. (Cl. 80—57)

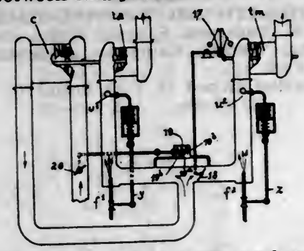


4. A pressure-release device comprising a pair of disc members and an intermediate soft metal disc assembled in axially stacked relation and adapted to be subjected to compressive working pressure, said intermediate disc being incapable of sustaining said pressure without plastic deformation in radial directions unless peripherally supported, and supporting means completely encircling said stacked discs in engagement with the periphery thereof for restraining said intermediate disc against deformation, said supporting means being movable relative to said stacked discs, at will, out of said restraining position to form a circumferential discharge passage into which the metal of said intermediate disc is displaced under said pressure.

2,280,765
GAS TURBINE THERMIC ENGINE
René Anxionnaz, Paris, and Roger Imbert, Mantes, France, assignors, by direct and mesne assignments, of one-half to said René Anxionnaz and one-half to Societe Rateau, Paris, France, a company of France
Application December 8, 1936, Serial No. 114,842
In France December 9, 1935
6 Claims. (Cl. 60—41)

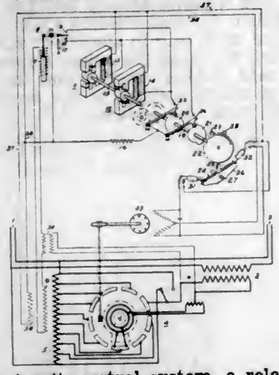
1. In a gas turbine plant of the type described, the combination of a compressor having an inlet opening for the inflow of the gas to be compressed, a gas turbine driving said compressor, a

gas turbine for producing useful power, means for heating the gas delivered by said compressor, means for feeding that gas in parallel circuits to said first-named and second-named turbine, a speed governor driven by the second-named turbine, a valve for controlling the distribution of the gas between said parallel circuits, means re-



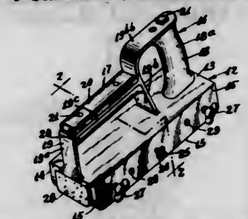
sponsive to said speed governor and acting on said valve, a manometric device operated by a difference of pressures, means for transmitting to said device the pressures existing on one side and on the other of said valve, a valve for controlling the inflow of the gas to said compressor, and means responsive to said device and acting on said last-named valve.

2,280,766
CONTROL SYSTEM
Joseph Bronaugh, Richmond, Va., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Continuation of application Serial No. 93,769, August 1, 1936. This application filed January 15, 1940, Serial No. 313,849
5 Claims. (Cl. 171—119)



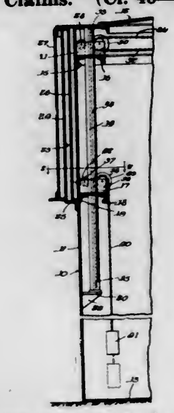
1. In a circuit control system, a relay responsive to a rapid change in a given circuit condition, an electroresponsive device provided with a first winding and a second winding, an operating member having a neutral position, means including said relay for energizing said first winding to a degree sufficient to provide movement of said member in one direction, means including said relay for energizing said second winding to a degree sufficient to provide movement of said member in another direction, means including a circuit controller operable by said member a predetermined time, greater than the time of said rapid change, after energization of said first winding for changing said circuit condition, and means including a second circuit controller operable upon initial movement of said member from said member from said neutral position for energizing said second winding to a degree less than and during said energization of said first winding to provide return of said member to said neutral position upon de-energization of said first winding.

2,280,767
UNIVERSAL GRIP HOLDER FOR RUBBING TOOLS
Dominick Ferragano, Albany, N. Y.
Application June 12, 1941, Serial No. 397,709
6 Claims. (Cl. 51—187)



1. A universal grip holder for rubbers of concrete and wood work finishing articles, comprising a frame having a top wall and a pair of downwardly extending parallel side walls, a handle on said top wall and having a front horizontal section and a back vertical section, and a clamp mounted on the inner face of one of said side walls and adapted to clamp an object against the other of said side walls, comprising a frame having side and end walls, a back wall hingedly mounted on the back of said frame, a resilient member mounted in said frame and resting against said back wall, and a plurality of blocks mounted on the front of said resilient member.

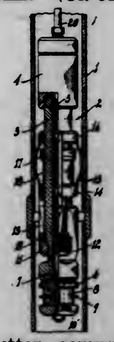
2,280,768
BALANCING WEIGHT FOR EXPANSION ROOFS
Philip S. Graver, Chicago, Ill., assignor to Graver Tank & Mfg. Co., Inc., Catasauqua, Pa., a corporation of Delaware
Application January 12, 1940, Serial No. 313,468
7 Claims. (Cl. 48—176)



1. In a storage container for gas or liquid, in combination, an open top tank, an expansion roof for said tank movable with respect thereto to vary the vapor space within the tank, a plurality of posts fixed to the roof at circumferentially spaced points and depending within the tank, means supported by the side walls of the tank and having rolling contact with each de-

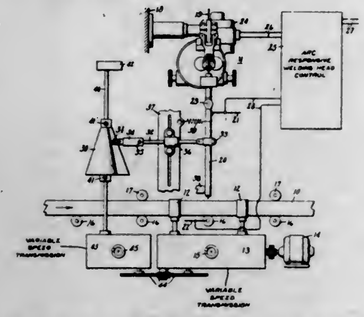
pending post including a roller and a sheave spaced from each other so that a post passes therebetween, and counter-balancing weights for said expansion roof, each weight having connection with a depending post and the said connecting means passing over one of said sheaves.

2,280,769
CASING CUTTER
John S. Page, Long Beach, Calif.
Application February 12, 1940, Serial No. 318,515
3 Claims. (Cl. 51—184.1)



1. A casing cutter comprising a sleeve, an electric motor mounted at the upper end of the sleeve, an armature shaft depending from the electric motor and extending through the sleeve, a cutter head journaled in the lower end of the sleeve, two or more cutter arms eccentrically pivoted on the cutter head, cutters on each of the cutter arms adapted and arranged to engage the casing as the cutter arms are swung outwardly by centrifugal force, and casing engaging means on the sleeve arranged between the motor and the cutter head, said casing engaging means comprising a plurality of slips slidably mounted on the sleeve, spring arms slidably mounted on the sleeve, and means connecting the spring arms and the slips whereby the slips are moved outwardly into engagement with the casing on downward movement of the sleeve relative to the slips.

2,280,770
AUTOMATIC ARC WELDING MACHINE
Jasper E. Anderson, Saugus, Mass., assignor to General Electric Company, a corporation of New York
Application August 29, 1940, Serial No. 354,689
12 Claims. (Cl. 219—8)

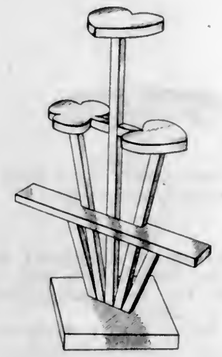


11. Apparatus comprising a welding agency, a support for said welding agency, means for traversing said support and the work relatively to one another along a line of welding in the work, and means for alternately moving said welding agency relative to its said support forward and backward along said line of welding in one direction at a speed which arrests the relative travel between said welding agency and the work for a time sufficient for said welding agency to form a weld in the work and in the other direction at a speed which increases the relative speed of travel between said welding agency and the work sufficiently to inhibit welding of the work and space said welds from one another.

DESIGNS

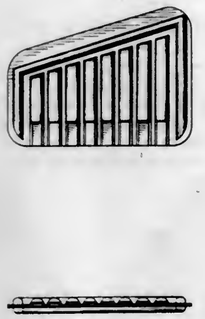
APRIL 21, 1942

132,096
DESIGN FOR A UTILITY STAND
Iver W. Cady, Lynwood, Calif.
Application September 24, 1941, Serial No. 103,467
Term of patent 7 years



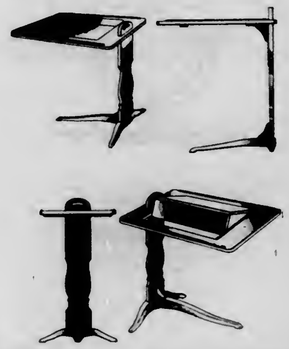
The ornamental design for a utility stand, substantially as shown.

132,097
DESIGN FOR A PLURAL-NOTE WHISTLE
Irwin E. Cohn, Leominster, Mass.
Application January 22, 1942, Serial No. 105,355
Term of patent 7 years



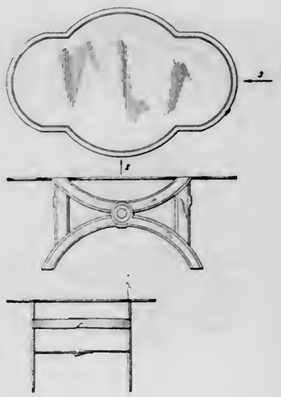
The ornamental design for a plural-note whistle, as shown.

132,098
DESIGN FOR A UTILITY TABLE
Joseph R. Corbett, Sharonville, Ohio, assignor to NuTone Chimes, Inc., New York, N. Y., a corporation of New York
Application February 10, 1942, Serial No. 105,748
Term of patent 7 years



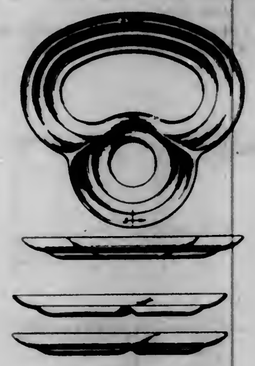
The ornamental design for a utility table, substantially as shown.

132,099
DESIGN FOR A KNOCKDOWN DOLL'S TABLE
Jean F. de Hymel, Pasadena, Calif.
Application April 21, 1941, Serial No. 100,531
Term of patent 3½ years



The ornamental design for a knockdown doll's table, substantially as shown.

132,100
DESIGN FOR A COMBINED PLATE AND SAUCER
Harold N. Ipsen, Rockford, Ill.
Application December 12, 1941, Serial No. 104,600
Term of patent 7 years



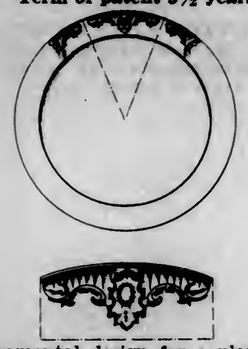
The ornamental design for a combined plate and saucer, substantially as shown.

132,101
DESIGN FOR A PLATE OR SIMILAR ARTICLE
John W. Mackey, Paden City, W. Va., assignor to Paden City Pottery Company, Paden City, W. Va., a corporation of West Virginia
Application November 28, 1941, Serial No. 104,371
Term of patent 3½ years



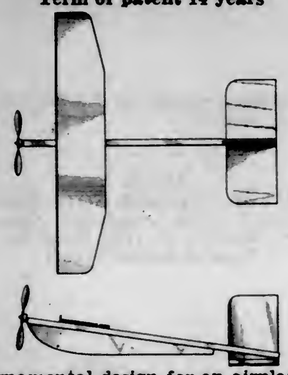
The ornamental design for a plate or similar article, as shown and described.

132,102
DESIGN FOR A PLATE OR SIMILAR ARTICLE
John W. Mackey, Paden City, W. Va., assignor to Paden City Pottery Company, Paden City, W. Va., a corporation of West Virginia
Application November 28, 1941, Serial No. 104,372
Term of patent 3½ years



The ornamental design for a plate or similar article, as shown and described.

132,103
DESIGN FOR AN AIRPLANE KITE
Curtiss J. McCoy, Indianapolis, Ind., assignor to Air-Line Mfg. Co., Inc., Indianapolis, Ind., a corporation of Indiana
Application March 6, 1941, Serial No. 99,379
Term of patent 14 years



The ornamental design for an airplane kite, as shown.

132,104
DESIGN FOR A DOLL CRADLE
Rosa L. Morton, Birmingham, Ala.
Application January 3, 1942, Serial No. 104,981
Term of patent 14 years



The ornamental design for a doll cradle, substantially as shown.

132,105
DESIGN FOR A COUNTER STOOL OR SIMILAR ARTICLE
Isaac Peterson, Oakland, Calif.
Application March 17, 1941, Serial No. 99,657
Term of patent 7 years



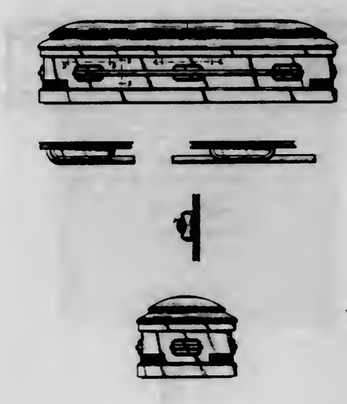
The ornamental design for a counter stool or similar article, as shown.

132,106
DESIGN FOR A SEED PACKET DISPLAY DEVICE
Palmer E. Winslow, Detroit, Mich., assignor to Ferry-Morse Seed Co., Detroit, Mich.
Application May 16, 1941, Serial No. 100,983
Term of patent 7 years



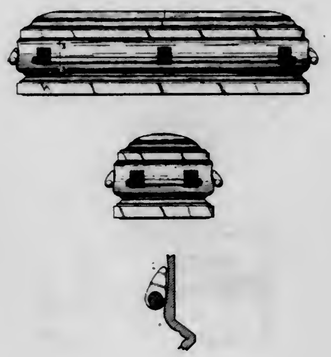
The ornamental design for a seed packet display device, as shown and described.

132,107
DESIGN FOR A BURIAL CASKET
William Zaiser, Rockville Centre, N. Y., assignor to New York & Brooklyn Casket Co., Brooklyn, N. Y., a corporation of New York
Application August 16, 1941, Serial No. 102,870
Term of patent 3½ years



The ornamental design for a burial casket, as shown.

132,108
DESIGN FOR A BURIAL CASKET
William Zaiser, Rockville Centre, N. Y., assignor to New York & Brooklyn Casket Co., Brooklyn, N. Y., a corporation of New York
Application August 16, 1941, Serial No. 102,871
Term of patent 7 years



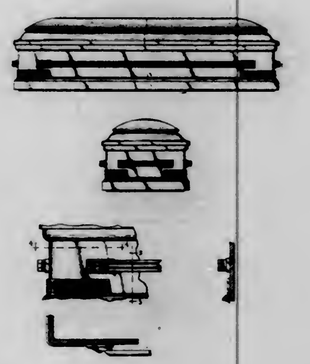
The ornamental design for a burial casket, as shown.

132,109
DESIGN FOR A BURIAL CASKET
William Zaiser, Rockville Centre, N. Y., assignor to New York & Brooklyn Casket Co., Brooklyn, N. Y., a corporation of New York
Application August 16, 1941, Serial No. 102,872
Term of patent 3½ years



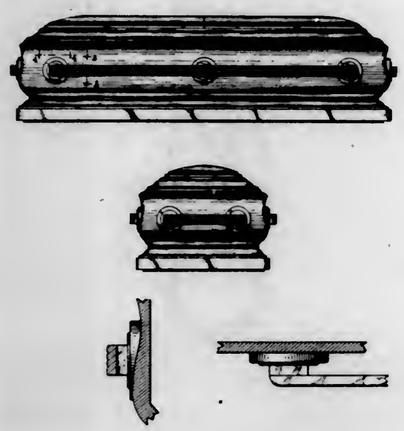
The ornamental design for a burial casket, as shown.

132,110
DESIGN FOR A BURIAL CASKET
William Zaiser, Rockville Centre, N. Y., assignor to New York & Brooklyn Casket Co., Brooklyn, N. Y., a corporation of New York
Application August 16, 1941, Serial No. 102,873
Term of patent 3½ years



The ornamental design for a burial casket, as shown.

132,111
DESIGN FOR A BURIAL CASKET
William Zaiser, Rockville Centre, N. Y., assignor to New York & Brooklyn Casket Co., Brooklyn, N. Y., a corporation of New York
Application August 16, 1941, Serial No. 102,874
Term of patent 7 years



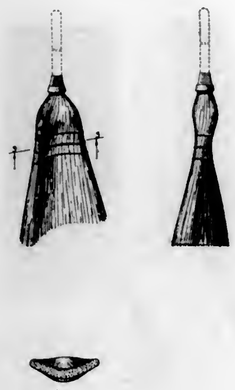
The ornamental design for a burial casket, as shown.

132,112
DESIGN FOR A GREETING CARD OR SIMILAR ARTICLE
Ernest D. Chase, Winchester, Mass.
Application December 26, 1941, Serial No. 104,859
Term of patent 7 years



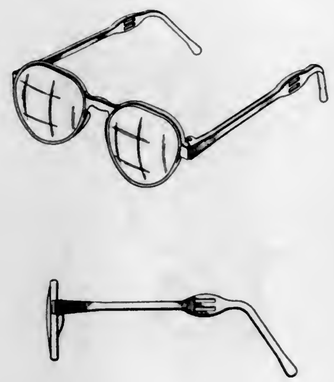
The ornamental design for a greeting card or similar article, as shown.

132,113
DESIGN FOR A BROOM
Louis F. Clements, Denver, Colo., assignor of one-half to John B. Furstenberg and Lucie J. Furstenberg, both of Denver, Colo.
Application December 27, 1941, Serial No. 104,879
Term of patent 14 years



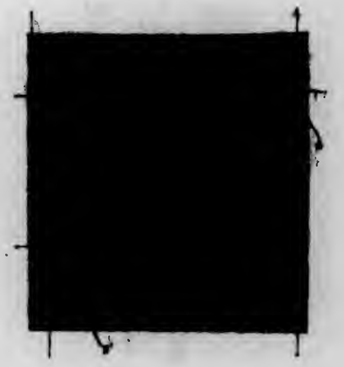
The ornamental design for a broom, substantially as shown and described.

132,114
DESIGN FOR A PAIR OF SPECTACLES
Wallin W. King, Los Angeles, Calif.
Application September 2, 1941, Serial No. 103,130
Term of patent 7 years



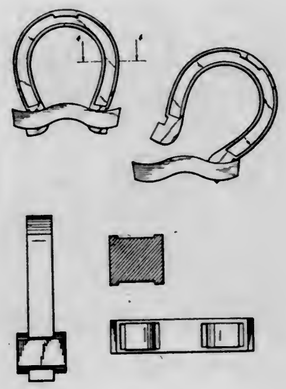
The ornamental design for a pair of spectacles, substantially as shown and described.

132,115
DESIGN FOR A TEXTILE FABRIC
Frances Lind and Frances A. Brooks, New York, N. Y.
Application January 24, 1942, Serial No. 105,395
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown and described.

132,116
DESIGN FOR A KEY RING
Irving Steinhardt, New York, N. Y.
Application February 13, 1942, Serial No. 105,787
Term of patent 14 years



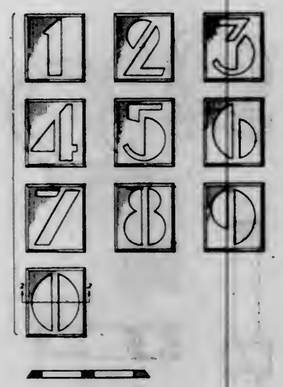
The ornamental design for a key ring, as shown.

132,117
DESIGN FOR A CALENDAR
Frank Steuwer, Cincinnati, Ohio
Application February 3, 1941, Serial No. 98,713
Term of patent 7 years



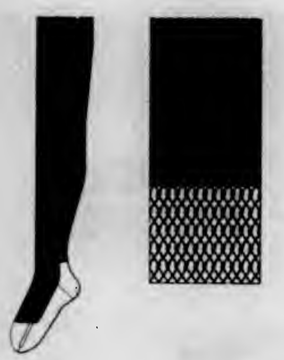
The ornamental design for a calendar, as shown and described.

132,118
DESIGN FOR A SET OF NUMERALS
Lester O. Thompson, Oklahoma City, Okla.
Application May 26, 1941, Serial No. 101,139
Term of patent 14 years



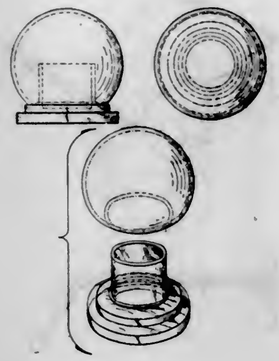
The ornamental design for a set of numerals, substantially as shown and described.

132,119
DESIGN FOR A STOCKING OR SIMILAR ARTICLE
Jean L. Welsh, West Reading, Pa., assignor to The Narrow Fabric Company, West Reading, Pa., a corporation of Pennsylvania
Application December 31, 1941, Serial No. 104,940
Term of patent 14 years



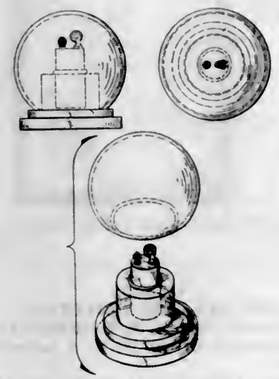
The ornamental design for a stocking or similar article, as shown and described.

132,120
DESIGN FOR A CIGARETTE CONTAINER
A. Jay Ackerman, Warren, Conn., assignor to New Martinsville Glass Manufacturing Company, New Martinsville, W. Va., a corporation of West Virginia
Application August 2, 1941, Serial No. 102,655
Term of patent 3½ years



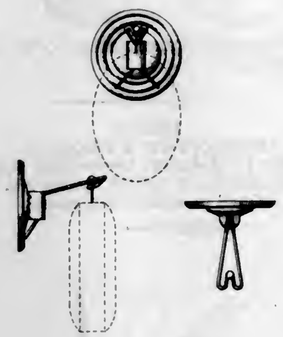
The ornamental design for a cigarette container, as shown.

132,121
DESIGN FOR A CIGARETTE LIGHTER
A. Jay Ackerman, Warren, Conn., assignor to New Martinsville Glass Manufacturing Company, New Martinsville, W. Va., a corporation of West Virginia
Application August 2, 1941, Serial No. 102,656
Term of patent 3½ years



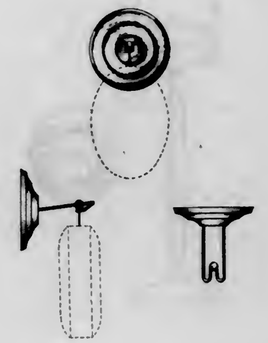
The ornamental design for a cigarette lighter, as shown.

132,122
DESIGN FOR A SOAP HANGER
Charles B. Anderson, Rockford, Ill., assignor of one-half to Andrew F. Wintercorn, Rockford, Ill.
Application May 5, 1941, Serial No. 100,771
Term of patent 7 years



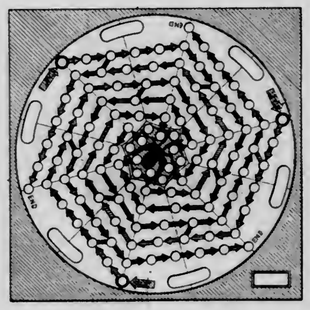
The ornamental design for a soap hanger, substantially as shown and described.

132,123
DESIGN FOR A SOAP HANGER
Charles B. Anderson, Rockford, Ill., assignor of one-half to Andrew F. Wintercorn, Rockford, Ill.
Application May 5, 1941, Serial No. 100,772
Term of patent 7 years



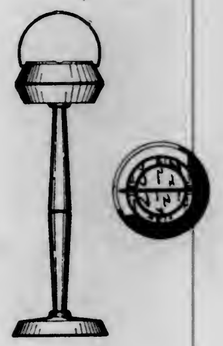
The ornamental design for a soap hanger, substantially as shown and described.

132,124
DESIGN FOR A GAME BOARD
Gus C. Dunlap, Azusa, Calif.
Application August 5, 1941, Serial No. 102,685
Term of patent 14 years



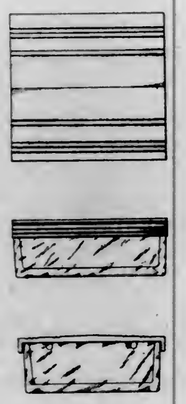
The ornamental design for a game board, as shown and described.

132,125
DESIGN FOR A SMOKING STAND
Maurice J. Fletcher, Des Moines, Iowa, assignor to Cadet Smokestands Company, Des Moines, Iowa, a business trust
Application January 5, 1942, Serial No. 105,029
Term of patent 14 years



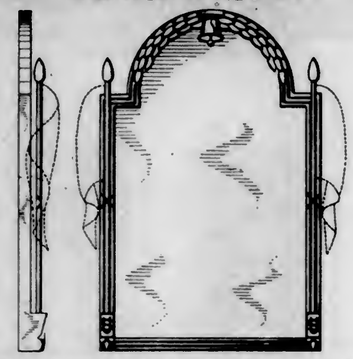
The ornamental design for a smoking stand, substantially as shown.

132,126
DESIGN FOR A CIGARETTE BOX OR SIMILAR ARTICLE
Lurelle Guild, Noroton, Conn., assignor to Kensington, Incorporated, New Kensington, Pa., a corporation of Pennsylvania
Application May 2, 1941, Serial No. 100,739
Term of patent 7 years



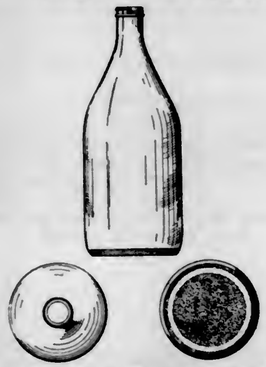
The ornamental design for a cigarette box or similar article, substantially as shown and described.

132,127
DESIGN FOR A SERVICE PLAQUE
Raymond Paul Jones, Dillon, Mont.
Application September 12, 1941, Serial No. 103,319
Term of patent 3½ years



The ornamental design for a service placque, as shown.

132,128
DESIGN FOR A BOTTLE
William J. Lundy, Olean, N. Y., assignor to Olean Glass Company, Olean, N. Y., a corporation of New York
Application July 22, 1941, Serial No. 102,365
Term of patent 7 years



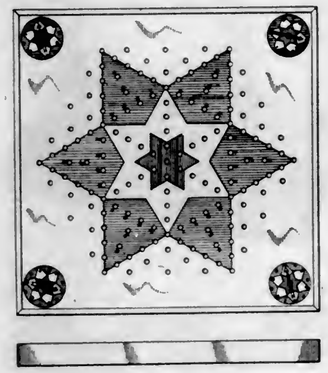
The ornamental design for a bottle, substantially as shown.

132,129
DESIGN FOR A BROOCH
Helen C. Maloney, Green Bay, Wis.
Application January 7, 1942, Serial No. 105,045
Term of patent 3½ years



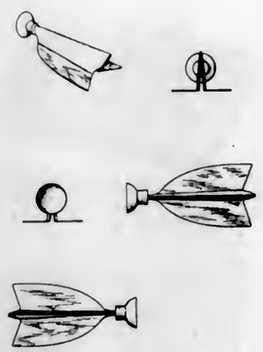
The ornamental design for a brooch, as shown.

132,130
DESIGN FOR A GAME BOARD
Alves M. Melton and Cecil D. Little, Ventura, Calif.
Application October 28, 1941, Serial No. 103,923
Term of patent 7 years



The ornamental design for a game board, as shown and described.

132,131
DESIGN FOR A SUCTION CUP DART
Arthur B. Mull, Chicago, Ill., assignor of one-half to Spotswood Specialty Company, Inc., Lexington, Ky., a corporation of Kentucky
Application December 1, 1941, Serial No. 104,423
Term of patent 7 years



The ornamental design for a suction cup dart, as shown.

132,132
DESIGN FOR A PLAQUE OR SIMILAR ARTICLE
William Olsen, New Haven, Conn., assignor of one-half to Howard W. Russell, Collingswood, N. J.
Application February 3, 1942, Serial No. 105,613
Term of patent 14 years



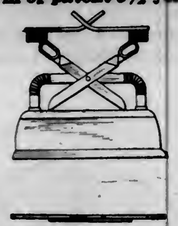
The ornamental design for a plaque or similar article, as shown.

132,133
DESIGN FOR A PLAQUE OR SIMILAR ARTICLE
William Olsen, New Haven, Conn., and Howard W. Russell, Collingswood, N. J.
Application February 3, 1942, Serial No. 105,614
Term of patent 14 years



The ornamental design for a plaque or similar article, as shown.

132,134
DESIGN FOR A BADGE OR THE LIKE
Grover C. Potts, Big Spring, Tex.
Application June 3, 1941, Serial No. 101,267
Term of patent 3½ years



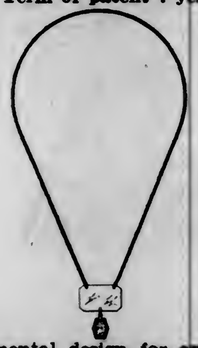
The ornamental design for a badge or the like, substantially as shown.

132,135
DESIGN FOR A TEXTILE FABRIC
William H. Rigney, La Fayette, R. I., assignor to A. Sterzelbach & Sons Co., New York, N. Y., a firm composed of Herbert Sterzelbach and Lester Sterzelbach
Application November 23, 1940, Serial No. 96,754
Term of patent 7 years



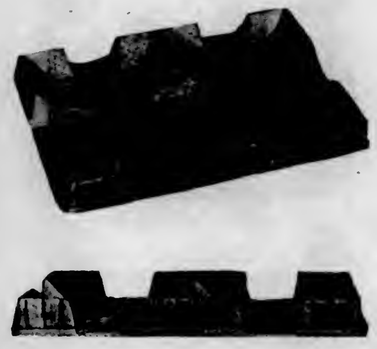
The ornamental design for a textile fabric, substantially as shown.

132,136
DESIGN FOR AN IDENTIFICATION NECKLACE OR THE LIKE
George L. Bumiller, Newark, N. J.
Application February 17, 1942, Serial No. 105,853
Term of patent 7 years



The ornamental design for an identification necklace or the like, as shown.

132,137
DESIGN FOR A PLAYING CARD HOLDER AND DISPENSER
David M. Holstein, Syracuse, N. Y., assignor to Alexander E. Holstein, Philip M. Holstein, David M. Holstein and Moses Winkelstein, a copartnership doing business under the firm name of Syracuse Ornamental Co., Syracuse, N. Y.
Application July 1, 1941, Serial No. 101,837
Term of patent 7 years



The ornamental design for a playing card holder and dispenser, as shown.

132,138
DESIGN FOR A PLAYING CARD BOX AND DISPENSER
David M. Holstein, Syracuse, N. Y., assignor to Alexander E. Holstein, Philip M. Holstein, David M. Holstein and Moses Winkelstein, a copartnership doing business as Syracuse Ornamental Co., Syracuse, N. Y.
Application November 22, 1941, Serial No. 104,262
Term of patent 7 years



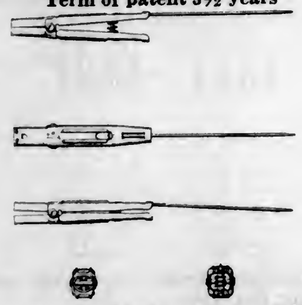
The ornamental design for playing card box and dispenser, as shown and described.

132,139
DESIGN FOR A PICTURE FRAME
William J. Rothstein, New York, N. Y.
Application December 31, 1941, Serial No. 104,938
Term of patent 7 years



The ornamental design for a picture frame, as shown and described.

132,140
DESIGN FOR A COMBINED HAIR WINDING KEY AND SMOOTHING PIN
Herman C. Schlicker, Brooklyn, N. Y., assignor to Clairol, Incorporated, Stamford, Conn., a corporation of Connecticut
Application February 14, 1942, Serial No. 105,792
Term of patent 3½ years



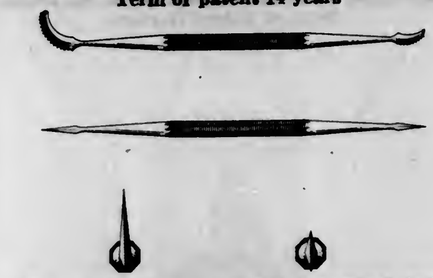
The ornamental design for a combined hair winding key and smoothing pin, as shown.

132,141
DESIGN FOR A BADGE OR SIMILAR ARTICLE
Aldon N. D. Attayer, Highland Park, Pa.
Application March 5, 1942, Serial No. 106,093
Term of patent 14 years



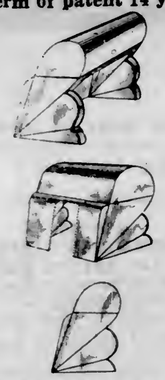
The ornamental design for a badge or similar article, substantially as shown and described.

132,142
DESIGN FOR A SURGICAL KNIFE
Ernesto A. Balla, New Bedford, Mass.
Application December 19, 1941, Serial No. 104,746
Term of patent 14 years



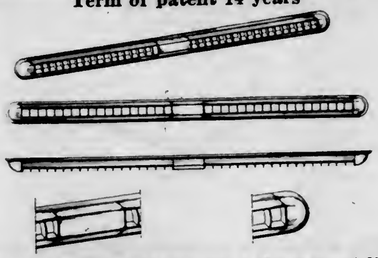
The ornamental design for a surgical knife, substantially as shown and described.

132,143
DESIGN FOR AN IRONING MACHINE CABINET
Jack Barofsky, Los Angeles, Calif.
Application October 21, 1941, Serial No. 103,841
Term of patent 14 years



The ornamental design for an ironing machine cabinet, as shown and described.

132,144
DESIGN FOR A FLUORESCENT LIGHTING FIXTURE FOR PASSENGER VEHICLES
Eric B. Hallman, Philadelphia, Pa., assignor to Electric Service Supplies Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 12, 1942, Serial No. 106,172
Term of patent 14 years



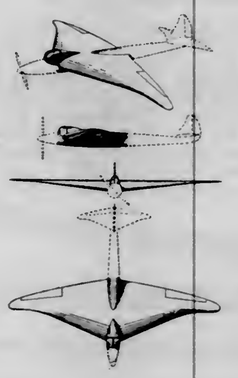
The ornamental design for a fluorescent lighting fixture for passenger vehicles, as shown.

132,145
DESIGN FOR AN ARTIFICIAL MINIATURE CHRISTMAS TREE
Charles S. Price, Hollis, N. Y.
Application September 12, 1941, Serial No. 103,321
Term of patent 14 years



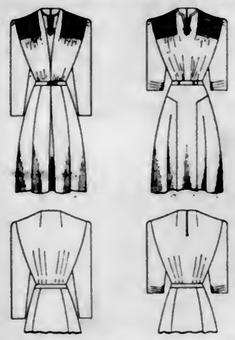
The ornamental design for an artificial miniature Christmas tree or similar article, substantially as shown and described.

132,146
DESIGN FOR AN AIRPLANE
David R. Davis, Los Angeles, Calif., assignor to Manta Aircraft Corporation, Los Angeles, Calif., a corporation of California
Application October 28, 1940, Serial No. 96,140
Term of patent 14 years



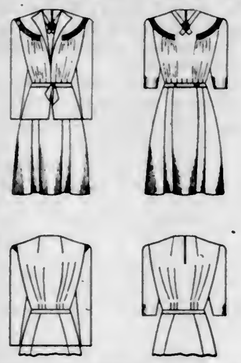
The ornamental design for an airplane substantially as shown and described.

132,147
DESIGN FOR A DRESS ENSEMBLE
Isidor Doctor, Chicago, Ill.
Application February 13, 1942, Serial No. 105,783
Term of patent 3½ years



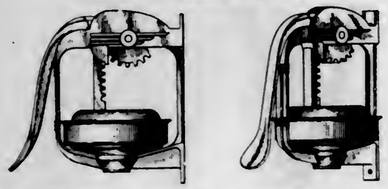
The ornamental design for a dress ensemble, substantially as shown.

132,148
DESIGN FOR A DRESS ENSEMBLE
Isidor Doctor, Chicago, Ill.
Application February 13, 1942, Serial No. 105,784
Term of patent 3½ years



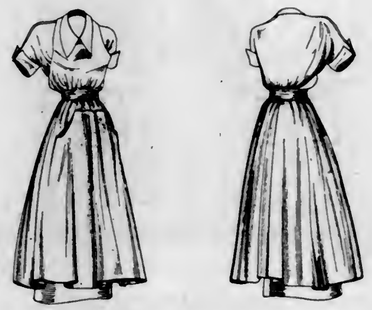
The ornamental design for a dress ensemble, substantially as shown.

132,149
DESIGN FOR A FRUIT JUICE EXTRACTOR
William P. Koch, Chicago, Ill., assignor to Chicago Die Casting Manufacturing Company, a corporation of Illinois
Application January 19, 1942, Serial No. 105,308
Term of patent 7 years



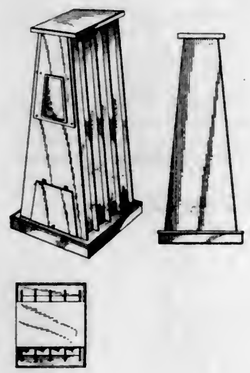
The ornamental design for a fruit juice extractor, as shown.

132,150
DESIGN FOR A UNIFORM DRESS
Lydia Mead, New York, N. Y.
Application April 17, 1941, Serial No. 100,472
Term of patent 14 years



The ornamental design for a uniform dress, substantially as shown.

132,151
DESIGN FOR A COMBINED DISPLAY RACK, OIL SAVER, AND WASTE CAN RECEPTACLE
Harvey J. Smith, Danville, Va., assignor to W. Ira Barker, Danville, Va.
Application August 7, 1941, Serial No. 102,726
Term of patent 14 years



The ornamental design for a combined display rack, oil saver, and waste can receptacle, substantially as shown and described.

132,152
DESIGN FOR A COAT
Oscar Hauptman, New York, N. Y.
Application March 26, 1942, Serial No. 106,329
Term of patent 3½ years



The ornamental design for a coat, as shown.

132,153
DESIGN FOR A DRESS
Margaret Pennypacker, New York, N. Y.
Application November 28, 1941, Serial No. 104,361
Term of patent 3½ years



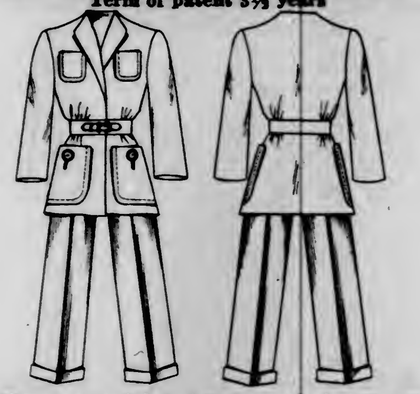
The ornamental design for a dress, as shown.

132,154
DESIGN FOR A HANDLE FOR ELECTRIC IRONS AND THE LIKE
William J. Russell, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application February 21, 1942, Serial No. 105,947
Term of patent 14 years



The ornamental design for a handle for electric irons and the like, substantially as shown and described.

132,155
DESIGN FOR A SLACK SUIT
Harry Silverstein, New York, N. Y.
Application March 3, 1942, Serial No. 106,065
Term of patent 3½ years



The ornamental design for a slack suit, substantially as shown.

132,156
DESIGN FOR A COAT
Rubin Troffkin, New York, N. Y.
Application February 26, 1942, Serial No. 105,993
Term of patent 3½ years



The ornamental design for a coat, substantially as shown.

132,157
DESIGN FOR A SUIT
Abe Gruber, New York, N. Y.
Application March 3, 1942, Serial No. 106,061
Term of patent 3½ years



The ornamental design for a suit, substantially as shown.

132,158
DESIGN FOR A SUIT
Abe Gruber, New York, N. Y.
Application March 3, 1942, Serial No. 106,062
Term of patent 3½ years



The ornamental design for a suit, substantially as shown.

132,159
DESIGN FOR A SUIT
Max Linden, New York, N. Y.
Application March 11, 1942, Serial No. 106,155
Term of patent 3½ years



The ornamental design for a suit, substantially as shown.

132,160
DESIGN FOR A SUIT
Abraham Shotland, New York, N. Y.
Application March 4, 1942, Serial No. 106,073
Term of patent 3½ years



The ornamental design for a suit, substantially as shown.

132,161
DESIGN FOR A MUFF
Max Baer, New York, N. Y.
Application December 19, 1941, Serial No. 104,726
Term of patent 7 years



The ornamental design for a muff, substantially as shown.

132,162
DESIGN FOR A MUFF
Max Baer, New York, N. Y.
Application December 19, 1941, Serial No. 104,727
Term of patent 7 years



The ornamental design for a muff, substantially as shown.

132,163
DESIGN FOR A MUFF
Max Baer, New York, N. Y.
Application December 19, 1941, Serial No. 104,728
Term of patent 7 years



The ornamental design for a muff, substantially as shown.

132,164
DESIGN FOR A MUFF
Max Baer, New York, N. Y.
Application December 19, 1941, Serial No. 104,729
Term of patent 7 years



The ornamental design for a muff, substantially as shown.

Patents Nos. 2,280,771 to 2,281,540

THE

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CONTENTS

	Page
ISSUE OF APRIL 28, 1942	711
ADJUDICATED PATENTS	711
ADVERSE DECISIONS IN INTERFERENCE	711
NOTICE	711
NOTICES OF CANCELLATION	711
APPLICATIONS UNDER EXAMINATION	712
DECISIONS OF THE U. S. COURTS—	
Standard Cap and Seal Corporation v. Coe, Commissioner of Patents	713
In re Edmunds	716
In re Gladeck	718
PATENT SUITS	719
TRADE-MARK REGISTRATIONS CANCELED	721
DISCLAIMERS	721
BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS	722
TRADE-MARKS PUBLISHED (132 APPLICATIONS)	725
TRADE-MARK REGISTRATIONS GRANTED	740
TRADE-MARK REGISTRATIONS RENEWED	747
REISSUES	751
PLANT PATENTS	753
PATENTS GRANTED	754
DESIGNS	937

April 28, 1942

Trade-Marks	162—No.	394,710 to No.	394,871,	inclusive.
T. M. Renewals	65			
Reissues	7—No.	22,080 to No.	22,086,	inclusive.
Plant Patents	3—No.	510 to No.	512,	inclusive.
Patents	770—No.	2,280,771 to No.	2,281,540,	inclusive.
Designs	79—No.	132,165 to No.	132,243,	inclusive.
Total	1,086			

Adjudicated Patents

(C. C. A. Ill.) Madsen patent, No. 1,869,760, for weatherproof window construction, claims 10, 13, and 14 *Held* invalid. *Curtis Cos.* v. *Master Metal Strip Service*, 125 F.(2d) 690.

(C. C. A. Del.) Hartshorne patent, No. 2,079,854, for process for treating naturally active earth and product thereof, *Held* invalid. *Floridin Co.* v. *Attapulgus Clay Co.*, 125 F.(2d) 669.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 2,189,481, David Traill, Films, filaments and other shaped articles made by hardening proteins coagulated from their solutions, decided January 29, 1942, claim 1.

Pat. 2,248,267, D. H. Bacon, Voltage limiter, decided March 30, 1942, claims 2, 3, and 4.

Notice

In accordance with the provisions of rule 17 of the Rules of Practice in the United States Patent Office, an examination for the registration of attorneys and agents to practice before the United States Patent Office will be held on Wednesday, June 10, 1942.

This examination may be taken in any of the large cities of the country and will be given under the direction of the Civil Service Commission. Applications to take the examination should be made to the Commissioner of Patents and such applications must be received in the Patent Office not later than May 28, 1942.

Application blanks may be obtained from the Chief Clerk of the Patent Office.

HENRY VAN ARSDALE,
Chairman of the Committee on Enrollment and Disbarment.

Notices of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., Apr. 7, 1942.*

The heirs, assigns or legal representatives of Theophilus O. Williams, deceased, take notice:

A cancellation proceeding has been instituted by this Office upon the application of The Odell Company, Newark, N. J., to effect the cancellation of the trade-mark registration of Theophilus O. Williams, 11–13 N. Sycamore St., Petersburg, Va., No. 190,302, dated October 14, 1924, and the receipt for the notice of such proceeding sent by registered mail to said Theophilus O. Williams at the said address having been returned bearing the notation "Deceased" endorsed thereon, notice is hereby given that unless the heirs, assigns or legal representatives of said Theophilus O. Williams shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

HENRY VAN ARSDALE,
Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., Apr. 6, 1942.*

The Interstate Wine Company, its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of California Wine Company, Incorporated, 444 West Grand Avenue, Chicago, Ill., to effect the cancellation of registration No. 225,472, issued March 22, 1927, to The Interstate Wine Company, 36 South Calvert Street, Baltimore, Md., and a notice of such proceeding sent by registered mail to said The Interstate Wine Company at said address having been returned by the post office as undeliverable, notice is hereby given that unless said The Interstate Wine Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Condition of Applications Under Examination at Close of Business April 11, 1942

(Total number of applications awaiting action, excluding Trade-Mark Division, 46,941; Trade-Mark Division, 1,151. Oldest new case, June 19, 1941; oldest amended, Apr. 28, 1941.)
(The dates given are 1941 except where † indicates 1942)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Aug. 13	July 30	720
6708	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Oct. 24	Oct. 2	683
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Dec. 3	Dec. 2	581
7063	4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating, Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	Nov. 3	Nov. 3	516
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	Oct. 8	Nov. 3	418
4806 C	6. LEWERS, A. M., Carbon Chemistry (part)	Sept. 19	Sept. 10	1136
5725	7. JARBOE, C. G., Optics; Photography	Sept. 11	Sept. 10	1057
2385	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	Aug. 25	Oct. 8	736
4634	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Oct. 8	Oct. 4	632
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	July 19	July 21	929
5087 B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Dec. 17	Dec. 12	390
7701	12. SPINTMAN, SAMUEL (Act.), Machine Elements; Mechanical Starters; Stop Mechanisms	Oct. 30	Oct. 8	561
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Aug. 2	July 11	628
5097	14. FREEHOF, H. B. (Act.), Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	Dec. 10	Nov. 28	612
4897	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Sept. 18	Sept. 17	1172
5716	16. SPENCER, C. J., Telegraphy; Telephony	Oct. 17	Oct. 17	543
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	July 21	July 23	995
4613	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Oct. 11	Oct. 15	580
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Sept. 16	Sept. 19	620
6605	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	Oct. 9	Oct. 4	383
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Nov. 18	Nov. 4	390
5600	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	June 19	June 20	1823
7624	23. BUTTNER, W. J., Registers (part)	July 16	June 28	244
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Sept. 11	Sept. 30	840
5709	25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Oct. 16	Oct. 15	499
5883	26. YOUNG, R. R., Electricity, Generation; Motive Power	Oct. 29	Nov. 4	459
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	Aug. 29	Aug. 5	580
4628	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	Oct. 22	Sept. 4	369
5082	29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	Aug. 13	Sept. 3	687
4083	30. McCANN, L. P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Dec. 27	Dec. 16	396
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	Oct. 17	Oct. 17	1515
4086	32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Sept. 22	Oct. 3	905
6096	33. KAUFFMAN, H. E. (Act.), Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads.	Sept. 13	Sept. 15	852
6626	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Surface Track; Track Sanders; Draft Appliances; Signals and Indicators.	Aug. 1	Oct. 31	430
3876	35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Portable Receptacles	Aug. 2	July 25	999
7902	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Oct. 13	Oct. 18	650
4886 B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Dec. 24	Nov. 21	572
3064	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stoneworking; Wells; Plastic Compositions.	Sept. 10	Sept. 8	733
4878	39. WHITNEY, F. I., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Nov. 19	Nov. 24	515
7880	40. DRUMMOND, E. J., Metallic, Wood, Paper, and Special Receptacles	Sept. 10	Sept. 10	1560
7612	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	Oct. 23	Oct. 22	556
5862	42. CUTTING, H. O., Electric Signaling	Nov. 1	Oct. 27	457
4896 B	43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Sept. 12	Sept. 11	816
4067 B	44. HARVEY, L. P., Refrigeration	Oct. 6	Oct. 10	336
7093	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Jan. 29	Aug. 21	409
4613	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Sept. 5	Sept. 5	786
6062	47. KANOF, W. J., Clutches; Brakes	Nov. 5	Nov. 3	366
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Aug. 26	Aug. 27	827
7726	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Sept. 25	Sept. 22	693
4701	50. LEVIN, S., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	Sept. 11	Sept. 11	1557
5628	51. BACKUS, C. D., Radiant Energy (part)	Dec. 17	Dec. 26	409
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	Dec. 24	Dec. 26	401
6697	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Aug. 18	Apr. 28	471
5883	54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	Dec. 4	Dec. 3	462
6883	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	Nov. 22	Dec. 9	285
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Aug. 12	Aug. 12	1357
6613	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	Nov. 15	Nov. 25	260
5605	58. DOWELL, E. F., Abrading; Bottles and Jars	Dec. 3	Dec. 10	422
4709	59. SHEPPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	Aug. 11	July 28	1335
5896	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Nov. 1	Oct. 27	323
6724	61. YUNGKWAI, B., Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	Sept. 19	Sept. 29	747
5621	62. PUGH, E. C., Games; Geometrical Instruments	Sept. 25	Aug. 25	697
4888	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	July 31	July 31	1410
4706	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats and Glue; Liquid Coating Compositions; Fuel.	Sept. 30	Sept. 29	1633
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	Oct. 31	Nov. 29	411
2099 B	Trade Marks: F. A. RICHMOND	†Feb. 9	†Mar. 5	1151
2665	Designs: H. H. KALUPY	†Feb. 19	†Mar. 20	605

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Appeals for the District of Columbia

Standard Cap and Seal Corporation

v.

Coe, Commissioner of Patents

No. 7,664. Decided November 27, 1941. Petition for rehearing denied January 9, 1942

[124 F.(2d) 278]

1. Patentability—Unpatentable Combination.
A refrigeration system wherein the evaporator and absorber are mounted on a truck and the remainder of the absorption system is located at a central servicing station *Held* not to be a patentable combination.

2. Appeal—Presumption of Correctness of Patent Office Decision.
Held that there is a presumption of correctness which follows the decision of the Patent Office.

3. Same—Function of Appellate Court.
On appeal from judgment of district court holding claims unpatentable, *Held* "it is not for us to say whether, upon an independent investigation of all the evidence, we would or might have reached a different conclusion. Neither is it our function to determine the preponderance of conflicting evidence, other than to determine whether there was substantial evidence to support the trial court's decision."

4. Patentability—Refrigeration Systems.
Claims of three applications relating to refrigeration systems *Held* properly denied to appellant for lack of invention over the prior art.

Appeal from the District Court of the United States for the District of Columbia. Affirmed.

Mr. M. Theodore Simmons and *Mr. Norman B. Frost* for Standard Cap and Seal Corporation.

Mr. W. W. Cochran (*Mr. Edwin L. Reynolds* of counsel) for the Commissioner of Patents.

Before Groner, Chief Justice, and Miller and Rutledge, Associate Justices

Miller, *A. J.:*

This is a consolidated appeal from three judgments of the district court dismissing appellant's complaints in three actions brought under section 4915, R. S.,[1] and consolidated for trial in that court. The Patent Office rejected the disputed applications for lack of invention over the prior art, and the district court reached a similar conclusion. The three actions were based upon two applications by Oliver C. Irwin, and an application by Lester P. Barlow and Forrest E. Gilmore. Appellant is the assignee of each application.

Briefly stated, appellant's contention, on this appeal, is that Irwin is the pioneer in the development of what it calls "a practical system of refrigerated transportation . . .;" that his application No. 632,740 contains the original conception of the development and the broader claims; that his application No. 632,741 contains a modification of the manner of pre-cooling the refrigerant before it is placed in the evaporator of the refrigerating apparatus which is installed in trucks or other vehicles; that the Barlow and Gilmore application relates to "an extension of the system and to some important details."

Concerning the first Irwin application, No. 632,740, the district court found:

"2. The Irwin application discloses a refrigerating system for a large number of trucks each having thereon only the evaporator and absorber of an absorption refrigeration system. The trucks periodically call at a centrally located station, at which the remainder of the absorption system apparatus is located, and the truck apparatus and station apparatus are interconnected so that strong aqua ammonia solution [strong liquor] circulates from the truck absorber to the station generator where the ammonia gas is distilled off and a weak aqua ammonia solution [weak liquor] remains, and anhydrous ammonia and weak aqua solution circulate into the truck evaporator and absorber, respectively. During cooling of the truck the weak aqua solution absorbs the ammonia from the evaporator, thereby producing the strong solution. At the central station the ammonia gas from the generator is condensed, and the condensed ammonia is specially cooled to or below the temperature at which it is to be used in the truck. After definite amounts of ammonia and weak solution have been received in the truck apparatus, the truck and station apparatuses are disconnected from each other whereupon the truck is ready for refrigerated operation independently of the central station for some predetermined period of time, after which the truck and station apparatus must be again interconnected for recirculation of the fluids."

As to these disclosures of the first Irwin application, appellant claims invention upon four features, which it contends were not disclosed by the prior art and which it describes in its brief as

(1) ". . . an entirely new means for and operation of refrigerated transportation,"

which solved many problems which are not present in either a conventional, unitary, absorption system of refrigeration, or in a mere division thereof;

(2) ". . . physical changes necessary in the absorption system . . ."

for which

"Irwin had to provide (*a*) a large and new type of absorber and arrange the same for air cooling, which the engineers believed would be impracticable; (*b*) a new type of evaporator having greatly enlarged capacity and operating as an evaporator without the conventional expansion valve; (*c*) the necessary disconnecting couplings and valves to be used when truck and stationary plant are joined together and when separated; (*d*) for the direct and quick handling of large amounts of ammonia, strong liquor and weak liquor, requiring the use of receivers and pumps for these respective liquors between the generator on the one hand and the evaporators and absorbers of the truck on the other hand so that the trucks would not be delayed at the central station all the time the ammonia was being recovered; and (*e*) a type of temperature regulator for the truck body, dependent upon the pressure in the evaporator;" (3) ". . . providing for pre-cooling of the ammonia at the central station before it is supplied to the evaporator. This pre-cooling means dissipation of the heat of the liquid. A body of ammonia in an evaporator like Irwin's will expend a certain amount of the ammonia to cool itself before it begins to do useful work of cooling the refrigerator. Irwin does this part of the operation at the central plant, and thereby saves between 18 and 20 percent of the space and weight of ammonia that otherwise would be necessary in the truck;"

(4) providing

"control of the operations of the reclaiming station and of the vehicles so as to insure uniformity of results."

The district court concluded that no invention lay in any of these features, or in the claims describing them. In reaching this conclusion it relied upon the McMahon Patent No. 367,992,[2] the Miller et al.

[1] 35 U. S. C. A. § 63.

[2] The McMahon Patent No. 367,992, discloses a plant in which ammonia is distilled from a rich solution to be used in an ammonia motor or a refrigerating unit, the rich solution resulting from the use of such ammonia being returned to the distilling means."

Patent No. 1,729,082,[3] the Molesworth et al. Patent No. 1,750,763,[4] the Chadwick Patent No. 1,898,616,[5] the Backstrom Patent No. 1,996,094,[6] and the British patent to Tellier, No. 10,156, A. D. 1900.[7] The court's findings, as to each of the references, are set out in the margin. It held, as to the more general claims, that they are drawn to a mere aggregation of a means for preparing liquid ammonia and a means for using ammonia to produce refrigeration. It held, further, (1) that the disclosure concerning the use of refrigerating units on trucks or railway cars constituted an adaptation of the system described by Tellier and that this was not invention in view of the Miller and Molesworth disclosures; (2) that it was not invention to air-cool the absorbers disclosed by Tellier, in view of the Chadwick patent and the Miller patent; (3) that it was not invention to pre-cool the liquid ammonia at the central plant of Tellier, in view of the Backstrom patent; (4) that it was not invention to provide temporary connections between the refrigerating unit and the central plant of Tellier, instead of transporting the liquids between them by means of a cart; (5) that it was not invention, in operating the Tellier system, to supply each refrigerating unit with a predetermined amount of ammonia corresponding to the amount reclaimed from the strong solution resulting from the previous operation of the unit.

[1] A careful examination of the record fails to reveal any evidence which would justify us in disregarding the trial court's findings, or in concluding that either its determination or that of the expert administrative officers of the Patent Office was wrong. The conventional absorption refrigeration system is stationary. It consists of a reclamation unit and a refrigeration unit, which are referred to colloquially as the "high side" and the "low side," respectively. In the Irwin system the two sides are disconnected; one portion, the low side, travels with the truck or other vehicle; the high side remains at a central servicing station; appropriate connections are provided for use in servicing. With minor variations each side operates in the same manner as it would in the conventional system. The high side acts merely as a recovery or reclamation plant for resolving strong liquor into liquid ammonia and weak liquor. The low side acts merely as a refrigerating unit by vaporizing liquid ammonia. The reclaiming plant and the absorption refrigeration units of the Tellier patent are both stationary. The transfer of liquids between them is effected by using what he called a "transporter." This differs from Irwin's claim, aside from details of construction, only in that in the Irwin system the refrigerating units are mobile, being mounted on railway cars or trucks, and are brought to the reclaiming plant for the purpose of transferring the liquids between them. This would seem to be an obvious procedure.[8] And, when this has been done, the devising of valves and couplings to connect the sides is simply a matter of mechanical skill.[9]

In fact, as the Examiner suggested, the contention that a patentable combination is disclosed by Irwin's application is little more persuasive than would be the contention that there is combination in a patentable sense between the multiplicity of automobiles running about the highways and the service stations at which they receive gasoline, oil, water, grease and air. To carry the analogy one step farther, the fact, urged by appellant, that some materials are recovered, reconditioned and later reused in other trucks, adds little more to the proper conception of a patentable combination than does the fact that automobile tires and batteries are traded in for new ones at some service stations, to be reconditioned and sold to other automobile owners.

The Patent Office correctly held,[10] therefore, that:

Each phase of the operation described by Irwin is old. Ingenuity may have been required to effect the combination and secure the total result, but no more than that to be expected of one skilled in the prior art.[11] It fell far short of invention.[12]

As for appellant's contention that Irwin's application No. 632,740 discloses invention in its provision for pre-cooling liquid ammonia in the central plant before it is introduced into the evaporator, the Backstrom Patent No. 1,996,094 speaks in express terms of "pre-cooling of the liquid entering the evaporator . . ." Moreover, it is suggested by both Molesworth and Tellier.

Appellant contends, also, that it was invention for Irwin to provide for supplying each refrigerating unit with a predetermined amount of ammonia of a definite degree of purity, which amount corresponds to the amount to be reclaimed from the strong liquor resulting from the previous operation of the unit. This is alleged to be important

"because a central station may be servicing trucks of many different owners, each hauling different products requiring different degrees of cooling. Furthermore, those trucks may be calling at different central stations. Again, a truck should receive no more ammonia than it is giving to the station so that there will be sufficient supplies for all to have uniform refrigeration for the period contracted for."

However, this disclosure was anticipated by Tellier. His travelling vehicles are "provided with an apparatus suitable for measuring liquids" which "allows of ascertaining the quantities [of liquid ammonia] supplied . . ." to the refrigerating unit. His patent also provides that this measurement may be "verified by a lever placed on the vessel . . ." which receives the ammonia. Appellant contends that Tellier merely charges the refrigerating unit with an amount of ammonia which is measured without reference to the ammonia content of the strong liquor extracted from the absorbers. It urges that even if this were done, it would not be accurate, because in the Tellier absorber there are three tanks for strong liquor, only one of which is drained at a time. However, appellant's expert testified that the whole Tellier system could be drained of the strong liquor, thereby permitting measurement of the strong liquor extracted. The necessity of inserting an accurate charge of liquid ammonia in the evaporator having arisen, the next step of measuring the ammonia content of the strong liquor and the use of suitable controls in the receiving vessels would seem obvious. Thus, any differences which exist are only such as would occur to one with engineering experience when confronted by the problem of operating the Tellier system in mobile units.[14]

[2] The second judgment, from which this consolidated appeal was taken, involved Irwin's application No. 632,741. The claims in suit were numbered 2, 4, 5, 10, 20 and 23. All of them relate to mechanism at the central station, designed for pre-cooling the ammonia before it is supplied to the trucks; and all of them were rejected by the district court. On this appeal appellant cites, as representative of the issues, claim 23, which reads as follows:

"An absorption refrigeration system comprising a generator adapted to receive a substance that is a combination of absorbent and refrigerant, means for heating the generator to drive off the refrigerant, a condenser for the refrigerant, a storage tank for the condensed refrigerant, and means connected between the storage tank and the condenser for lowering the temperature of the refrigerant in the storage tank."

The question presented here is whether Irwin, reading the prior art as disclosed by Tellier, was required to do more than what should be expected of a skilled mechanic, in producing the result described in his claim 23.[15] Appellant says yes; the experts at the Patent Office said no; and the trial court, weighing in the balance all the evidence before it, including the presumption of correctness which follows the decision of the Patent Office,[16] reached the conclusion that Irwin's achievement fell short of invention. We have no reason for disturbing its conclusion.

[3] Although appellant has cited, on this appeal, claim 23 as being representative, issue was actually joined in the lower tribunals upon claim 2[17] and it is so nearly identical with claim 23 that the evidence concerning one is equally applicable to the other. The decision of the Board of Appeals of the Patent Office reads as follows upon this issue:

Claim 2 has been rejected as being directly readable on Fig. 4 of the patent to Tellier. The Examiner has applied claim 2 term by term to the patent to Tellier. It is understood that the reference to the heater (4) in the Examiner's statement is intended to refer to the heater 40 of Tellier. The tank 50 of Tellier accumulates condensed refrigerant in considerable quantity. The ammonia in tank 50 is said to be redistilled from that tank by reducing the back pressure. This results in reduction in temperature and it seems that tank 50 may also be used to cool brine coils. The vaporized ammonia is again recompressed in the compressor 52 and cooled in the cooler and condenser 53 and collected in the storage tank 55. While the drawing off of volatilized ammonia from tank 50 by tube 51 through compressor 52 serves the purpose of reducing the temperature in the tank 50, the body of cooled ammonia is not directly transferred to a refrigerating chamber. However, the terms of claim 2 are satisfied by Tellier and we hold further that invention is not involved in pre-cooling the liquid ammonia which is to be introduced into the refrigerating chamber of applicant's device in order to avoid carrying into the refrigerating chamber any unnecessary heat. It does not seem that the mere sensible heat in connection with the specific heat of liquid ammonia would be of much appreciable quantity in this relation, but it is believed to be clearly an apparent feature that, if worth considering, it is a matter that is entirely obvious. We think it is no more than merely the same conception as pre-cooling meats or other products which are to be loaded into refrigerator cars in order to take as much burden off the refrigerating element of the car as possible. This is believed to be a matter of public knowledge.

Appellant asserts the contrary and relies upon the testimony of its expert witness, Mr. Muffly, to support its assertion. But Mr. Muffly was not asked whether it is impossible to read claim 2 or claim 23 of Irwin upon Tellier and did not so testify. While his testimony was so phrased as to make possible a contention such as that now urged, the questions and answers were so phrased as to avoid the expression of a conclusion upon this point. In any event, it is not for us to say whether, upon an independent investigation of all the evidence, we would or might

[3] "The Miller et al. Patent No. 1,729,082 shows a railway car, the storage compartment of which is cooled by an evaporator, connected to an adsorber that is cooled by outside air."

[4] "The Molesworth et al. Patent No. 1,750,763 discloses a refrigerating unit for home use (and mentions railway cars) comprising means for storing and evaporating ammonia and a tank containing liquid in which the ammonia is absorbed. Connections are provided for supplying ammonia and for removing the liquid from the absorber."

[5] "The Chadwick Patent No. 1,898,616 discloses the use of an air-cooled generator-absorber in a refrigerating unit."

[6] "The Backstrom Patent No. 1,996,094 discloses a refrigerating system including an evaporator from which a portion of the ammonia is evaporated for the purpose of cooling the remaining liquid as it is supplied to a second evaporator."

[7] "The British patent to Tellier, No. 10,156, A. D. 1900, discloses a reclaiming plant in which a strong solution is heated to drive off ammonia gas which is purified and condensed. This liquid ammonia, together with the weak solution remaining after its liberation, is distributed by a cart among a number of refrigerating units, the weak solution being placed in the absorbers of such units. The cart also returns the strong solution resulting from the previous refrigerating operation to the central plant."

[8] *Hendy* v. *Golden State and Miners' Iron Works*, 127 U. S. 370, 375, 43 O. G. 1117; *Hug* v. *Lakewood Engineering Co.*, N. D. Ohio, 291 F. 892, 894, aff'd, 7 F.(2d) 98.

[9] *In re Garrett*, 27 App. D. C. 19, 23, 122 O. G. 1047: "The change in the relative location of the various elements of the apparatus is nothing more than would suggest itself to a skilled mechanic having in view the conditions and conveniences of the different places in which the construction and use of the apparatus may be desired." Cf. *Altoona Public Theatres, Inc.*, v. *American Tri-Ergon Corp.*, 294 U. S. 477, 483–484, 452 O. G. 705; *Minnesota Mining & Mfg. Co.* v. *Coe*, 69 App. D. C. 217, 220, 99 F.(2d) 986, 989, 493 O. G. 946; *Vulcan Corp.* v. *Slipper City Wood Heel Co.*, 6 Cir., 89 F.(2d) 109, 110.

[10] Appellee's Exhibit No. 1–I, Record 276, 281.

[11] ". . . the association [in Irwin's application No. 632,740] of these two separate and distinct functions considered either in terms of method or appropriate apparatus does not constitute a true dependable cooperable conception of combination either as method or apparatus within the provisions of the patent statutes." [13]

[11] *Hailes* v. *Van Wormer*, 20 Wall. [U. S.] 353, 368; *Powers-Kennedy Contracting Corp.* v. *Concrete Mixing and Conveying Co.*, 282 U. S. 175, 186–187, 402 O. G. 517; *Lincoln Engineering Co.* v. *Stewart-Warner Corp.*, 303 U. S. 545, 549, 490 O. G. 3; *Frick-Gallagher Mfg. Co.* v. *Ro-Tray Corp.*, — App. D. C. —, —, 122 F.(2d) 81, 83, 534 O. G. 703; *In re Harris*, 37 App. D. C. 374, 378–379, 170 O. G. 484. Cf. *Ruben Condenser Co.* v. *Copeland Refrigeration Corp.*, 2 Cir., 85 F.(2d) 537, 541, cert. denied, 300 U. S. 665, quoted in *Radtke Patents Corp.* v. *Coe*, — App. D. C. —, —, 122 F.(2d) 937, 535 O. G. 3; 50 U. S. P. Q. 316, 326, at n. 27.

[12] *Cuno Engineering Corp.* v. *Automatic Devices Corp.*, — U. S. —, 10 U. S. L. Week 4005, 4006 (November 11, 1941).

[13] Cf. *Tropic-Aire, Inc.*, v. *Sears, Roebuck & Co.*, 8 Cir., 44 F.(2d) 580, 588, cert. denied, 282 U. S. 904.

[14] *Concrete Appliances Co.* v. *Gomery*, 269 U. S. 177, 184–185, 342 O. G. 507.

[15] *Minnesota Mining & Mfg. Co.* v. *Coe*, 69 App. D. C. 217, 220, 99 F.(2d) 986, 989, 493 O. G. 946; *Minnesota Mining & Mfg. Co.* v. *Coe* 69 App. D. C. 256, 257, 100 F.(2d) 429, 430, 497 O. G. 766; *L. Sonneborn Sons, Inc.*, v. *Coe*, 70 App. D. C. 97, 100, 104 F.(2d) 230, 233, 502 O. G. 4.

[16] *Abbott* v. *Coe*, 71 App. D. C. 195, 197, 109 F.(2d) 449, 451, 512 O. G. 3; *Cleveland Trust Co.* v. *Berry*, 6 Cir., 99 F.(2d) 517, 522. Cf. *Morgan* v. *Daniels*, 153 U. S. 120, 125, 67 O. G. 811, quoted in *Bayer* v. *Rice*, 64 App. D. C. 107, 108, 75 F.(2d) 238, 239.

[17] "An absorption refrigeration system comprising a generator adapted to receive a substance that is a combination of absorbent and refrigerant, means for heating the generator to drive off the refrigerant, a condenser for the refrigerant, a tank for the accumulation of condensed refrigerant, and a compressor that is connected to the storage tank so as to lower the temperature of the refrigerant that is stored therein."

have reached a different conclusion."[18] Neither is it our function to determine the preponderance of conflicting evidence, other than to determine whether there was substantial evidence to support the trial court's decision."[19] We have no doubt that there was.

The third phase of this appeal concerns the claims of the Barlow and Gilmore application, none of which were allowed by the Patent Office or by the district court. Barlow and Gilmore succeeded Irwin in the development of appellant's refrigerating apparatus. The problem which they sought to solve is described by appellant as follows:

"In the course of the development work, Barlow and Gilmore discovered that certain definite limits on the quality of the ammonia and of the weak liquor absorbent would be necessary for successful commercial operation of the Irwin or General Frigid system, especially where long over-the-road operations were to be engaged in. They determined that the ammonia would have to be nearly anhydrous, with a low limit of ninety-five percent, and a preferred limit of ninety-seven or ninety-eight percent, which were limits not before used, in view of Mr. Gilmore's testimony that it was not possible for them to obtain equipment with guaranties of such performance. They likewise determined that the weak liquor could have not more than five percent contamination of ammonia, and preferably three percent. Barlow and Gilmore also found that it would be necessary to eliminate at the central stations every human factor of possible error in the amount of ammonia and in the amount of weak liquor put into the evaporator and absorber of each truck or railway car, and they therefore added to the absorbers and evaporators devices for automatically limiting the amount of charge."

In order to solve the problem, their application proposes to equip the evaporator and absorbers on each mobile unit with devices to permit them

"to be charged to a definite extent, such as a predetermined level. Therefore when the absorbers are emptied, they are recharged to a predetermined level so that at each recharging there is a definite known quantity of absorbent going into the absorbers. Also, according to the present system the remaining unspent charge or refrigerant in the evaporator is not discharged but is left in the evaporator and the evaporator is recharged to the predetermined level. Thus, if only half of the charge of refrigerant has been spent during the service run of the transportation unit, only that amount of refrigerant is added to the evaporator, and that amount corresponds to the amount of spent refrigerant that has gone over to the absorbers during the service run and that is taken off from the absorbers when emptying the same. Of course, in referring to filling the evaporator and absorbers to a predetermined level it is not intended to be limited to that specific method as there are several other ways by which the desired result may be accomplished."

It is also proposed to operate the recovery plant so

"as to produce substantially anhydrous ammonia of a predetermined dryness or specific gravity. Likewise, the weak liquor or aqua ammonia will be reduced to a predetermined ammonia content. Accordingly, knowing that the absorbent with which the absorbers are charged is of a definite ammonia content and knowing that the anhydrous ammonia with which the evaporators are charged is of a certain definite quality throughout the refrigeration system for the entire territory or nation, then it will be known that the amount of ammonia taken from the absorbers of any transportation unit contains the exact equivalent to the amount of ammonia that is necessary to recharge the evaporator of that unit fully to its intended refrigerative capacity."

[4] The district court concluded that no invention was shown over Tellier. A careful reading of the record demonstrates that it reached the correct conclusion.[20]

[18] *Abbott* v. *Coe*, 71 App. D. C. 195, 197, 109 F.(2d) 449, 451, 512 O. G. 3: "The question for us is not whether in our opinion there was invention, but whether the finding that there was none is consistent with the evidence," quoted in *Wolf* v. *Coe*, 72 App. D. C. 224, 112 F.(2d) 857, 518 O. G. 255, and in *Eppensteiner* v. *Coe*, 72 App. D. C. 169, 114 F.(2d) 457, 528 O. G. 248; *Radtke Patents Corp.* v. *Coe*, — App. D. C. —, 122 F.(2d) 937, 50 U. S. P. Q. 316, 319, 535 O. G. 3; *Krause* v. *Coe*, — App. D. C. —, —, 120 F. (2d) 717, 719, 527 O. G. 844.

[19] *Levine* v. *Coe*, — App. D. C. —, —, 119 F.(2d) 185, 187, 527 O. G. 843; *Forward Process Co.* v. *Coe*, — App. D. C. —, —, 116 F.(2d) 946, 947, 524 O. G. 3; *Nichols* v. *Minnesota Mining & Mfg. Co.*, 4 Cir., 109 F.(2d) 162, 163–164: "We review such findings of the District Judge, just as in other cases, under the rule that they must be accepted by us unless clearly erroneous. Rule 52(*a*) of the Rules of Civil Procedure, 28 U. S. C. A. following section 723c; . . ."

[20] Cf. *Levine* v. *Coe*, — App. D. C. —, —, 119 F.(2d) 185, 187, 527 O. G. 843.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE EDMUNDS

No. 4,523. Decided February 2, 1942

[125 F.(2d) 181]

1. PATENTABILITY—INVENTION.
   Claims in an application for a species of a genus disclosed in a patent to another would not be allowable to applicant unless the species involved invention over the genus.
2. SAME—PATENT CLAIMING INVENTION.
   Where an applicant refused to copy certain claims of a patent to another that were suggested for purposes of interference *Held* that the applicant, in effect, disclaimed any subject matter of the claims, and *Held* that, in so disclaiming, the applicant is entitled only to subject matter patentably different from that of the suggested claims, and *Held* that the patent is available prior art.
3. SAME—FERROUS ALLOY.
   Certain claims to a ferrous alloy *Held* unpatentable over claims of a patent to another which applicant disclaimed by refusing to copy for purpose of interference.

APPEAL from Patent Office. Affirmed.

Mr. Fred Gerlach for Edmunds.

Mr. W. W. Cochran (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

JACKSON, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office rejecting certain claims of a reissue application for new and useful improvements in a "Mixture for the Production of Malleable Iron". Claims 1 and 2, and 13 to 20 inclusive were rejected by the Primary Examiner because of the failure of appellant to make certain claims of the cited reference suggested for the purpose of an interference. Claims 3 to 12 inclusive were allowed.

Claims 1 and 20 illustrate the nature of the involved subject matter and read as follows:

1. A malleablized cast ferrous alloy comprising 1% to 1.8% carbon, 1.5% to less than 2% silicon, effective amounts up to not over 1.4% manganese and the balance substantially all iron.

20. A hot worked ferrous alloy comprising carbon 1% to 1.70% and silicon in effective amounts up to 2%, manganese not over 1.4%, the balance consisting substantially all iron, the carbon being present in part at least as nodular carbon substantially uniformly distributed throughout the metal.

The cited reference is: Bonte 2,087,764, July 20, 1937.

The application relates to a mixture for the production of malleable iron which is suitable for wear resisting use and which is machineable. In the specification of appellant it is stated that:

In general, the invention is directed primarily to a particular relationship of carbon and silicon, the other ingredients being present to give particular characteristics for particular purposes or merely as impurities. In this respect, the particular range of manganese recited is not essential to the invention in its broadest sense, but said range is the preferable one and could be varied or altered without departing from the spirit of the invention.

The patent to Bonte relates to the production of ferrous alloy articles and a method of manufacture thereof. In the patent it is set out that:

Having reference first to the use of silicon as a graphitizing element, its content is governed by the carbon content. With carbon within the preferred range of about 1.5 to 2.0 or 2.5 per cent it is, in general, preferred to use from about 0.6 to 0.9 per cent of silicon, this element being proportioned with regard to the carbon to effect the conditions stated hereinabove. A simple embodiment, and an advantageous one, is a plain carbon steel containing about 1.7 per cent of carbon and about 0.75 per cent of silicon.

and a further example of the alloy is set out as follows:

Thus, with carbon from 1.5 to 2.0 per cent, as much as 1.3 per cent of silicon may be used safely by increasing the manganese to about 1 per cent. Such a steel may be hot worked satisfactorily and subsequent graphitization caused, in accordance with the invention.

The Examiner, in his letter finally rejecting the involved claims, observed that no showing had been made that the silicon content of the application is critical and held the rejected claims unpatentable over the Bonte patent. He stated that appellant could make claims 15, 20 and 22 of the patent for the reason that they are for the same subject matter as are the rejected claims and that appellant could establish his rights to the claims of the patent only by an interference proceeding with the Bonte patent. Appellant failed to make the said patent claims, which read as follows:

15. A hot worked and subsequently annealed article of manufacture, the article being formed from an iron-carbon alloy containing not less than about 1.5 per cent of carbon, a graphitizing element, such as silicon, so proportioned to the carbon that during the hot working of the alloy the carbon was substantially all in combined form and a substantial proportion of which is in graphitic form as a consequence of the annealing of the article, the remainder of the alloy being effectively iron.

20. As a new article of manufacture, a hot worked graphitizable ferrous base alloy containing a graphitizing agent and more than about 1.5 per cent of carbon.

22. A hot worked article formed of a ferrous base alloy containing more than 1.5 per cent of carbon, and a graphitizing agent in an amount adapted to permit graphitization of the article, a substantial amount of the carbon having been converted to the graphitic state.

Appellant contended below as he contends here that the Bonte patent is not a proper reference. His contention and the attitude of the Patent Office toward it are succinctly set out in the statement of the Examiner as follows:

It is believed that applicant does not question the fact that the claims read on this patent, and that the sole issue is whether or not this patent is available as a reference. Applicant contends that his earliest filing date anticipates the earliest filing date available to Bonte and thus Bonte is not a reference.

It is the position of the Examiner that this contention is immaterial because Bonte is claiming the invention and applicant can make these claims for purpose of interference. Since applicant can make claims 15, 20 and 22 of Bonte, he cannot eliminate this reference by refusing to make these claims, regardless of the respective filing dates.

The present application of Edmunds is a reissue of his patent which has a filing date subsequent to the filing date of the patent to Bonte. However, both claim the benefit of earlier filing dates. The present cases being continuations in part of older applications.

If applicant can and should make the claims of Bonte, the question of filing dates is of course immaterial here, for in such a situation the right of applicant to the appealed claims can be determined only by interference.

Applicant argues that he cannot and does not wish to make these claims for the reasons that: the claims of Bonte are not for the same invention and the claims are not patentable to him. The whole basis of his contention is that Bonte discloses and claims generic subject matter while applicant has claimed a species within the generic subject matter.

The Board of Appeals agreed that the Examiner was justified in rejecting the appealed claims for the reason that appellant failed to copy the said patent claims.

It is on the limited amount of carbon claimed in the appealed claims that appellant bases his contention.

In the Bonte patent a carbon content of 1.5% to 2.5% is disclosed. Appellant discloses and claims a carbon content of from 1% to 1.8%. In claim 15 of the Bonte patent the carbon content claimed is "not less than about 1.5 per cent" and in claims 20 and 22 of said patent the amount of carbon claimed is more than 1.5%. Clearly the amount of carbon content in the suggested claims overlaps that in the claims on appeal since there is a mutual disclosure and claim of 1.5% to 1.8% of carbon.

[1] Appellant contends that the claims on appeal are for a species contained within the generic subject matter disclosed by Bonte. We are not impressed with this contention but even if we held it to be good, it could be of no avail to appellant unless it appeared that the species involved invention over the genus.

We are of opinion that the argument of appellant, that he was the first to disclose the overlapping percentages of carbon and that therefore the later disclosure of the reference makes the cited art unavailable, is not well taken. The issue here is not who was the first inventor. That issue would be proper in an inter partes case but not in an ex parte proceeding.

As we view the record, it is clear that the claims on appeal read on the Bonte patent. Consequently there can be nothing in the claims patentably distinct from the disclosure and suggested claims of the patent.

Appellant contends in his brief that he cannot make claims 15, 20 and 22 of the patent to Bonte. This contention is based upon the fact that there is no maximum range of carbon content set out in the said claims of the patent. Both the involved application and the Bonte patent relate to the hot working of malleable metal and the best product as to machine ability and wear resistance is produced where the carbon content is low, 1% to 1.8% in the application and 1.5% up to 2.5% in the patent. It cannot be successfully contended, as appellant contends, that merely because the suggested claims contain no maximum carbon content that the said claims are for a different invention. The patentee, in practicing his invention to produce wear-resisting easily machined malleable iron, surely would not use a carbon content so high that the very qualities he sought in the product were impossible of attainment.

We do not think it material, as contended by appellant, that if the metal contains 2% or a greater amount of carbon, the ingot will show a distribution, or elongated threads, of excess carbon which produce directional weakness. Such defective

metal was not sought by the reference patent, in disclosing and making claim to the very kind of product sought for and claimed by appellant. Furthermore, according to an affidavit filed on behalf of appellant, it was well known to all metallurgists that iron can only hold in solid solution a maximum of between 1.7% and 1.8% of carbon.

[2] Since appellant refused to make the suggested claims, any subject matter thereof was in effect disclaimed. In so disclaiming appellant is entitled only to subject matter patentably different from that of the suggested claims which he refused to make, and the Bonte patent is properly considered as available prior art. *In re Jardine and Cooper*, 20 C. C. P. A. (Patents) 761, 62 F.(2d) 194, 430 O. G. 317; *In re Williams and McCabe*, 20 C. C. P. A. (Patents) 738, 62 F.(2d) 86, 426 O. G. 785.

[3] Since in the Bonte patent the suggested claims specifically include the amount of 1.5% to 1.8% carbon content which is squarely within the same range claimed by appellant and since appellant has disclaimed, as aforesaid, the subject matter of the said claims of the patent, and we can see nothing in the appealed claims patentable over the subject matter of the suggested claims, the decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE GLADECK

No. 4,540. Decided February 2, 1942

[124 F.(2d) 1021]

1. PATENTABILITY—AGGREGATION.

A claim to a cigar making machine reciting tobacco feeding and cutting means and a device for spraying a flavoring solution on the tobacco *Held* drawn to an aggregation, since the cutting and feeding means, whether or not the tobacco is sprayed, would operate in precisely the same manner, and the spraying must have the same effect on the tobacco no matter what is done to it after the spraying.

2. SAME—CIGAR MAKING MACHINE.

Certain claims to a cigar making machine *Held* unpatentable over the prior art.

APPEAL from Patent Office. Affirmed.

Mr. George S. Hastings (*Mr. Tennes I. Erstad* of counsel) for Gladeck.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

JACKSON, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner rejecting certain claims of an application for a patent for new and useful improvements in "Binder and Wrapper Material Feed for Cigar Machines". Twenty-two claims were allowed.

Appeal was taken to this court from the decision of the Board on the following rejected claims: 14, 32, 34, 39, 55, 58, 62, 64, and 66. At the oral argument appellant moved to dismiss the appeal as to claims 14, 34, 39, 58 and 62 which motion will be granted. Therefore the appeal concerns claims 32, 55, 64 and 66. All of these claims were rejected in view of the prior art and claim 32 was further rejected as being drawn to an aggregation.

The involved claims read as follows:

32. The combination with a cigar binder cutting bed provided with a binder cutting die, of a source of supply of cigar forming sheet material, automatic means for feeding and spreading said sheet material over said cutting die and bed, and a device for spraying a flavoring solution on the upper face of the sheet material fed to said die.

55. In a cigar machine, the combination with a cutting bed provided with a cutting die, of automatic means for feeding sheet material over said cutting die and bed, mechanism coacting with said die to cut a section from the sheet material, means for transporting the severed section away from said cutting die and bed, and means for removing from the die that portion of said material remaining after the section severed therefrom has been carried away by said transporting means.

64. In a cigar machine, the combination with a suction cutting bed provided with a cigar wrapper cutting die, of automatic means for feeding a web of cigar wrapper forming sheet material to said die, means for positioning said material over said die, mechanism coacting with said die to cut a wrapper from said web while so positioned, bunch rolling mechanism, means for transporting a cut wrapper from the bed to said rolling mechanism, and means for removing the waste portion of said web from said die.

66. In a cigar machine, the combination with a flat cigar binder cutting bed provided with a cigar binder cutting die defining an enclosed area of a shape corresponding to a cigar wrapping element, of a source of supply of cigar binder forming sheet material, means for feeding said sheet material over said die and bed, and mechanism coacting with said die to cut a binder from sheet material positioned over said die and remove the cut section therefrom.

The references cited are: Smith et al, 187,924, February 27, 1877; Williams, 340,180, April 20, 1886; Burchardi et al., 1,075,189, October 7, 1913; Ashworth, 1,605,383, November 2, 1926; Halstead, 1,984,795, December 18, 1934.

The invention of appellant relates to a machine, for the manufacture of cigars, more particularly to automatic binder and wrapper material feeders to the binder and wrapper cutting dies respectively.

The patent to Williams relates to a cigar wrapper cutting machine and discloses every element alleged to be patentable in the appealed claims except means for spraying the tobacco with a flavoring liquid and mechanism for removing waste material after cutting.

The Ashworth patent relates to machines for cutting sheet material, specifically leather to be used in heels for shoes. It discloses a cutting die provided with a brush member for removing the waste portions of material after cutting.

In view of our conclusion it is not necessary to refer to the Smith et al., the Burchardi et al. and the Halstead patents.

[1] One of the reasons given below for the rejection of claim 32 is that it was drawn to an aggregation in that, between the feeding and cutting means, and the "device for spraying a flavoring solution on the upper face of the sheet material" there is no coaction. We are of opinion that such ground for rejecting the said claim is sound, and therefore it is unnecessary to consider the prior art with relation to that claim. The cutting and feeding means, whether or not the tobacco is sprayed, would operate in precisely the same manner, and the spraying must have the same effect on the tobacco no matter what is done to it after the spraying. The combination in the claim produces no novel result but only a combination of the results found in the use of the separate units of the claim. *In re Goggins*, 24 C. C. P. A. (Patents) 764, 86 F.(2d) 419, 478 O. G. 713, and cases therein cited.

The patent to Williams is the basic reference. It discloses the use of a suction carrier for bringing the material to be cut to and from the cutting die as follows:

* * * * * * *

In Figs. 4 and 5 is shown the application of a carrier having a perforated surface to the moving of the material to or from the cutter, the drawing showing an arrangement for removing the blanks (cigar-wrappers cut from leaves) from the cutter as fast as they are severed. * * *

There is no drawing, or explanation in the patent of how the material could be automatically fed to the die other than the above statement. Appellant contends that the carrier of the Williams patent could not operate as an automatic feeder, and even if it were possible to reverse its operation so that it could function as a feeder, it would be inoperative in that, it would probably lift more than one from the stack of leaves or disarrange the stack. Appellant urges that the statement in the Williams specification mentioning the use of the carrier as an automatic feeder, without disclosure as to how it could be done, is speculative and therefore insufficient to be a proper anticipation of the invention alleged to be present in the appealed claims. This contention would be sound, if in view of the said statement in the patent, it would have required the flash of inventive genius to have modified the Williams device so that a synchronized automatic feeder carrier could be provided therein.

It seems to us that Williams plainly suggested the use of an automatic feeder carrier and that it would require only the exercise of mechanical skill to provide such a carrier for his apparatus and synchronize it with the mechanism shown in the patent. The Primary Examiner clearly states how simply this could be done, as follows:

* * * For example, in Figs. 4 and 5, a suction carrier similar to carrier S could be positioned at the right of cutter A to carry a sheet from a loading station at which point a sheet could be manually placed from a source of supply on the under surface of the carrier and held by suction thereon. Then after carrier S removes a sheet, the proposed carrier could move horizontally over the die and the suction could be cut off from said carrier to deliver the leaf on the die in the same manner that the suction is cut off from the carrier S when a sheet is delivered on stack t. These suggestions of the physical structure are entirely derived from Williams, page 2, lines 40 to 45. [which we have quoted above from the Williams patent] The addition of such a carrier to the structure illustrated by Williams would require only the usual skill of one versed in the art.

[2] Claim 55 was rejected on the patent to Williams and held not to be patentably different therefrom merely by the addition to it of a clearing means, because,

"the use of a brush to remove excess material is common in various arts and to apply it to the Williams construction would be lacking in patentable merit."

In view of the broad wording of the claim with respect to the removing means, no other holding would be proper, particularly in view of the patent to Ashworth. Appellant contends that the Ashworth patent "relates to an art too remote to teach one in the cigar machine art how to remove sticky waste tobacco from a die.", and states in his brief that "It was to avoid this sticking that appellant's brush was made to rotate." There is no limitation in claim 55 showing that a rotating brush, or one of any other kind, is part of the combination. As far as this contention is concerned the Ashworth patent is clearly analogous to the Williams patent since it is concerned merely with clearing waste from the die.

Claims 64 and 66 were held to be unpatentable in view of the patent to Williams when combined with the Ashworth patent. Claim 64 merely adds to claim 55 means for positioning over the die the material to be cut, a bunch rolling mechanism and means for transporting cut wrappers to the rolling mechanism. In view of the slight modification suggested in the Williams patent, the feeding carrier of that device would position the material over the cutting die. It is apparent in the Williams patent that there is in the cigar making machine in which the device of Williams is used, some type of bunching mechanism in which the wrappers are to be applied to the bunched tobacco, and likewise means for transporting the cut wrappers to the rolling mechanism. We do not think the alleged patentable limitations of claim 64 are sufficient to render the claim patentable over the prior art.

Claim 66 is the broadest of the appealed claims in that, in addition to limitations hereinbefore disposed of on the prior art, it is not limited to automatic feeding means for the material to be cut. It is clearly anticipated by the patent to Williams.

The motion to dismiss the appeal as to claims 14, 34, 39, 58 and 62 is granted, and the decision of the Board of Appeals, for the reasons hereinbefore set out, is affirmed as to claims 32, 55, 64 and 66.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

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1,564,246, W. H. Kelly, Pressure gauge, filed Jan. 27, 1942, D. C., N. D. Ohio, E. Div., Doc. 21108, *Ray Pressure Snubber Co.* v. *Parker Appliance Co.*

1,581,188, C. G. Fink, Process of electrodepositing chromium and of preparing baths therefor, D. C., E. D. Pa., Doc. 9725, *United Chromium, Inc.*, v. *Proctor & Schwartz, Inc.* Consent decree dismissing action without prejudice Jan. 16, 1942.

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1,885,527, A. Luft, Garment, D. C., S. D. N. Y., Doc. 12/120, *Sporting Footwear Mfg. Corp.* v. *L. Abelson & Son.* Consent judgment (notice Jan. 20, 1942).

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1,893,321. (See Re. 19,136.)

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1,954,855, J. M. Weaver, Wick for oil burners, D. C. Mass., Doc. 868, *Raybestos-Manhattan, Inc.*, v. *Newton Mfg. Co.* Consent decree for plaintiff for injunction Jan. 24, 1942.

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1,984,916, G. E. Bullock, Velocipede frame construction, C. C. A., 6th Cir., Doc. 8762, *The Murray-Ohio Mfg. Co.* v. *E. C. Brown Co.* Claims 8, 12, 14, 17, 18, and 24 held invalid Jan. 6, 1942.

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2,198,423, H. R. Anthony, Leak-proof dry cell, filed Jan. 12, 1942, D. C., E. D. Ill. (Danville), Doc. 240–D, *Ray-O-Vac Co.* v. *The Goodyear Tire & Rubber Co., Inc.*

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Des. 109,289, Bauer & Steiner, Brooch, D. C., S. D. N. Y., Doc. 1/271, *E. Steiner et al.* v. *Brooks & Co., R. H. Macy & Co. et al.* Consent order of discontinuance (Abraham & Straus, Inc.) Feb. 29, 1940. Consent order of discontinuance (R. H. Macy & Co.) Mar. 11, 1940. Dismissed for lack of prosecution Jan. 27, 1942.

Des. 116,125, A. Ruchman, Dress, D. C., S. D. N. Y., Doc. 5/278, *Apex Dress Co., Inc.*, v. *A. Golder & Co., Inc.* Consent order of discontinuance (notice Jan. 19, 1942).

Des. 116,764, D. Haon, Dress, D. C., S. D. N. Y., Doc. 6/207, *Sheila-Lynn, Inc.*, v. *Moe Feinberg-Moe Wiesen, Inc.* Consent judgment (notice Jan. 23, 1942).

Des. 117,166, M. Croizat, Dress, D. C., S. D. N. Y., Doc. 6/253, *Babs Junior, Inc.*, v. *Smiling Deb, Inc.* Consent judgment (notice Jan. 20, 1942).

Des. 117,649, H. Lentini, Dress, D. C., S. D. N. Y., Doc. 6/360, *Jack Caplan, Inc.*, v. *Blue Bell Frocks, Inc., et al.* Consent decree as to Cherlane Modes Co., Inc. Jan. 16, 1940. Stipulation of discontinuance as to Plummy Dress Corp. Dec. 19, 1941. Stipulation of discontinuance as to Blue Bell Frocks, Inc., Jan. 15, 1942.

Des. 119,017, M. Bauman, Coat, D. C., S. D. N. Y., Doc. 9/117, *Bauman & Stoll* v. *Wolf & Barse, Inc., et al.* Consent order of discontinuance (notice Jan. 23, 1942).

Des. 119,912, E. Breer, Dress, D. C., S. D. N. Y., Doc. 10/44, *Musman-Pincus, Inc.*, v. *L. Liman & Son.* Stipulation of discontinuance (notice Jan. 24, 1942).

Des. 121,745, L. Friedman, Handbag frame, D. C., S. D. N. Y., Doc. 13/71, *Gold Seal Importers, Inc.*, v. *J. Jolles Studios, Inc.* Consent order of discontinuance (notice Jan. 27, 1942).

Des. 122,283, C. Charles, Dress, D. C., S. D. N. Y., Doc. 11/11, *Sandler & Lane, Inc.*, v. *Lassie Frocks, Inc.* Consent judgment (notice Jan. 31, 1942).

Des. 125,505, R. Faller, Textile fabric, D. C., S. D. N. Y., Doc. 16/436, *Belvedere Silks, Inc.*, v. *Jo-El Dress Co., Inc., et al.* Consent order of discontinuance as to Gimbel Bros. Jan. 22, 1942. Judgment as to remaining defendants Jan. 26, 1942.

Des. 126,350, A. Ruchman, Dress, D. C., S. D. N. Y., Doc. 13/468, *Apex Dress Co., Inc.*, v. *A. Golder & Co., Inc.* Consent and order of discontinuance (notice Jan. 27, 1942). Doc. 13/407, *Apex Dress Co., Inc.*, v. *Revue Frocks, Inc.* Consent judgment (notice Jan. 28, 1942).

Des. 130,281, E. M. Horblit, Dress, filed Jan. 28, 1942, D. C., S. D. N. Y., Doc. 17/199, *Boston Marilyn Dresses* v. *Form-Fit Dresses, Inc., et al.*

T. M. 47,813, The Murine Eye Remedy Co., Eye remedy, filed Jan. 14, 1942, D. C., N. D. Ill., E. Div., Doc. 3801, *The Murine Co., Inc.*, v. *Murane Beauty Products.*

T. M. 203,657, Hamilton Watch Co., Watches, watch movements and parts thereof, D. C. R. I., Doc. 31, *Hamilton Watch Co.* v. *Hamilton Chain Co., Inc., et al.* Trademark held invalid (notice Jan. 29, 1942).

T. M. 293,297, V. La Rosa & Sons, Inc., Alimentary pastes, filed Nov. 19, 1941, D. C. Ky. (Louisville), Doc. 372, *V. La Rosa & Sons, Inc.*, v. *Kentucky Macaroni Co.*

T. M. 391,964, Associated Distributors, Inc., Lipstick, rouge, face powder, mascara, etc., filed Jan. 24, 1942, D. C., N. D. Ill., E. Div., Doc. 3849, *Associated Distributors* v. *F. W. Woolworth Co.*

Trade-Mark Registrations Canceled

176,107. Jumping stick. The Pogo Company, New York, N. Y. Registered November 20, 1923. Canceled March 11, 1942.

181,557. Maltless-soft-drink powder. National Food Products Corporation, Inc., Los Angeles, Calif. Registered March 25, 1924. Canceled April 6, 1942.

278,723. Eyewash. Solomon M. Sager, Evanston, Ill. Registered December 30, 1930. Canceled March 17, 1942.

290,992. Refrigerators, refrigerating apparatus, and parts therefor. Kulair Corporation, Philadelphia, Pa. Registered January 19, 1932. Canceled March 11, 1942.

335,244. Toilet bowl cleaner. G. E. Harris, doing business as Bowl-Kleen Laboratories, Los Angeles, Calif. Registered May 26, 1936. Canceled March 17, 1942.

350,057. Medicinal preparation. John A. Devine, Philadelphia, Pa. Registered September 14, 1937. Canceled March 17, 1942.

367,041. Punch presses. Johnson Machine & Press Corporation, Elkhart, Ind. Registered May 9, 1939. Canceled April 6, 1942.

371,878. Hydrometers, thermohydrometers, and paper-scale thermometers. George Ruehfel Company, Inc., Brooklyn, N. Y. Registered October 10, 1939. Canceled April 6, 1942.

374,636. Ladies' and misses' slips, pajamas, and nightgowns. Rabiner Underwear Co., Inc., New York, N. Y. Registered January 16, 1940. Canceled March 17, 1942.

381,796. Paints and painters' materials. A. C. Buschman & Co., Inc., Newark, N. J. Registered October 8, 1940. Canceled March 17, 1942.

386,630. Women's and girls' overcoats. Whitley Tailleurs, Inc., New York, N. Y. Registered April 15, 1941. Canceled March 17, 1942.

387,682. Furniture. Allied Stores Corporation, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash. Registered May 27, 1941. Canceled March 17, 1942.

389,146. Chewing gum. Joseph L. Clark, doing business as J. L. Clark Chicle Co., Pittsburgh, Pa., assignor to General Gum, Incorporated, Chicago, Ill. Registered July 29, 1941. Canceled March 11, 1942.

390,061. Storage batteries. Ex-Cel Battery & Equipment Company, Chicago, Ill. Registered September 2, 1941. Canceled April 6, 1942.

391,460. Cleaner and preservative for white side-wall tires. Bona-Kleen Company, Los Angeles, Calif. Registered November 11, 1941. Canceled March 11, 1942.

392,617. Treatment for loose dandruff. Virgil E. Beasley, doing business as Novadane Chemical Company, San Antonio, Texas. Registered January 6, 1942. Canceled April 6, 1942.

Disclaimers

1,984,916.—*Giles E. Bullock*, Rochester, N. Y. VELOCIPEDE FRAME CONSTRUCTION. Patent dated December 18, 1934. Disclaimer filed March 27, 1942, by the assignee, *E. C. Brown Company.*

Hereby enters this disclaimer to claims 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 22, 24, and 25 of said patent, and disclaims from the scope of claim 23 of said patent all structures in which the "platform" is not constructed of sheet metal with integral downwardly extending sides at the ends and also at the front and rear thereof and with the axle passing through and rigidly held by the downwardly extending sides disposed at the ends of the platform, and in which the backbone member is not welded to the top of the platform to constitute an integral part of said platform and the platform is not supported on the axle at the ends of the platform and at additional points between the ends thereof.

2,034,231.—*Ernest C. Fox*, Cleveland Heights, Ohio. AIR REGISTER. Patent dated March 17, 1936. Disclaimer filed April 8, 1942, by the assignee, *The Independent Register Company.*

Hereby enters this disclaimer as to claim 1 of said patent.

2,146,729.—*Edward M. Gavin*, Barksdale Field, La. AUTOMATIC FUEL CONTROL SYSTEM FOR VEHICLES. Patent dated February 14, 1939. Disclaimer filed March 31, 1942, by the inventor; the assignee, *The Aro Equipment Corporation*, approving.

Hereby enters this disclaimer to claims 1, 2, 3, 5, and 7.

BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS

RENDERED DURING MARCH, 1942

THE S. S. WHITE DENTAL MANUFACTURING COMPANY *v.* STERILE PRODUCTS COMPANY, INC., Opposition No. 19,624.

In a decision rendered March 7, 1942 (163 Ms. Dec. 896, 52 U. S. P. Q. 587), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences dismissing the opposition of The S. S. White Dental Manufacturing Company, of Philadelphia, Pa., to the application of Sterile Products Company, Inc., of San Diego, Calif., for registration of the word "Oraclenz" as a trade-mark for "tablets to be dissolved in water for making a solution to be used as a mouth wash and gargle." Opposer relied upon its ownership of the trade-mark "Oraline," registered for toothpaste, and used in connection with such goods for many years before applicant adopted the mark sought to be registered.

In his decision the First Assistant Commissioner said:

"Broadly speaking, there can be no question but that the goods to which these two marks are applied possess the same descriptive properties within the meaning of the Trade-Mark Act; but I agree with the Examiner that they 'differ considerably in composition and uses and also in purchasing appeal.' And as pointed out by the Court of Customs and Patent Appeals in the case of *Younghusband v. The Kurlash Co.*, 25 C. C. P. A. 886, 94 Fed. (2d) 230, 'it is proper, in considering the question of confusion to recognize the differences in the goods.' Applying that rule in the instant case, it is my opinion that the marks 'Oraclenz' and 'Oraline' differ sufficiently to insure against any reasonable likelihood that confusion will result from their use on these particular goods."

THE AMERICAN AGRICULTURAL CHEMICAL COMPANY *v.* DOM F. EVIA, Opposition No. 19,923.

In a decision rendered March 11, 1942 (163 Ms. Dec. 900, 52 U. S. P. Q. 590), *First Assistant Commissioner Frazer* reversed the decision of the Examiner of Trade-Mark Interferences and thereby sustained the opposition of The American Agricultural Chemical Company, of New York, N. Y., to the application of Dom F. Evia, also of New York, N. Y., for registration of the word "Hitox" as a trade-mark for insecticides. As stated by the First Assistant Commissioner, opposer is the owner of the trade-mark "Pyrox," registered for the same goods many years before applicant's first use of his "Hitox" mark. The First Assistant Commissioner also stated that it appeared from the evidence that the two products differ considerably in many respects; but both are insecticides, and are so described in opposer's registration and in the opposed application, and he ruled that for the purpose of this proceeding they must be considered as identical.

In finding the marks of the respective parties confusingly similar, the First Assistant Commissioner said:

"The marks of the parties are dissimilar in spelling and in appearance, but when spoken they sound too nearly alike to be concurrently used on identical merchandise of the character here involved without likelihood of confusion. In the case of *Marion Lambert, Inc.*, v. *O'Connor*, 24 C. C. P. A. 781, 86 Fed. (2d) 980, the Court of Customs and Patent Appeals held the marks 'Voo' and 'Dew' to be confusingly similar, even though applied to specifically different merchandise, and in the course of its opinion made the following observation:

" 'Similarity in the sound of the names under which goods are sold is becoming a more important consideration in the decision of cases of this kind as the effective advertisement of goods becomes increasingly dependent upon radio facilities.' "

The opposer insisted that applicant's mark should be refused registration on the ground that it is descriptive of applicant's goods. However, the First Assistant Commissioner concluded that, while highly suggestive, the mark is not objectionably descriptive, and that in the event the opposition should be dismissed upon further appeal, applicant would be entitled to the proposed registration.

PRATT & LAMBERT-INC. *v.* CHAPMAN & RODGERS, INC., Opposition No. 19,691.

In a decision rendered March 11, 1942 (163 Ms. Dec. 899, 52 U. S. P. Q. 589), *First Assistant Commissioner Frazer* reversed the decision of the Examiner of Trade-Mark Interferences and thereby dismissed the opposition of Pratt & Lambert-Inc., of Buffalo, N. Y., to the application of Chapman & Rodgers, Inc., of Philadelphia, Pa., for registration of the numeral "61", in association with a design, as a trade-mark for insecticides. The opposition was predicated upon opposer's ownership of the same numeral, used in connection with paints, varnishes, lacquers, putties and related painters' materials, and registered for a part of such goods prior to applicant's first use of the mark on insecticides.

The First Assistant Commissioner stated that the only question to be determined was whether or not applicant's goods and the goods of opposer possess the same descriptive properties within the meaning of the Trade-Mark Act, citing *American Steel Foundries* v. *Robertson*, 269 U. S. 372, 1926 C. D. 289. In discussing this question the First Assistant Commissioner said:

"Opposer does not deal in insecticides, and appears to have no thought of doing so in the future. The record discloses, however, that some paint manufacturers do produce insecticides, and also that insecticides and painters' materials are sometimes sold in the same stores. The Exsminer of Interferences thus reached the conclusion 'that these goods possess the same descriptive properties.'

"The facts relied upon by the Examiner do not, in my opinion, support his conclusion. It is a matter of common knowledge that numerous items of different descriptive properties frequently emanate from a common source. Matches and waxed paper, for example, are produced by the same manufacturer in at least one well-advertised instance. Nor is it of controlling importance that goods similar to those of both parties are to be found in the same stores. *Kraft-Phenix Cheese Corporation* v. *Consolidated Beverages, Limited*, 27 C. C. P. A. 803, 107 Fed. (2d) 1004. These are factors to be considered, but manifestly they do not change the inherent characteristics of the merchandise involved.

"As stated in the Examiner's decision, 'the goods of the parties are noncompetitive and differ widely in composition and uses.' Moreover, although applicant's '61' product has been on the market for thirty years, there is no evidence that confusion has occurred; and while the absence of such evidence is not conclusive, it is nevertheless 'persuasive that there is not likelihood of confusion.' *E-Z Mills, Inc.*, v. *Martin Brothers Co.*, 25 C. C. P. A. 992, 95 Fed. (2d) 269."

THE PROCTER & GAMBLE COMPANY *v.* SWEETS LABORATORIES, INC., Opposition No. 19,289.

In a decision rendered March 19, 1942 (163 Ms. Dec. 902, 53 U. S. P. Q. 67), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences dismissing the opposition of The Procter & Gamble Company of Cincinnati, Ohio, to the application of Sweets Laboratories, Inc., of New York, N. Y., for registration of the notation "Ivoryne Peroxide Gum," with a disclaimer of the last two words, as a trade-mark for "chewing gum containing a non-poisonous compound adapted to whiten the teeth."

In its brief on appeal, the opposer stated:

"The grounds of opposition are that the use of this mark 'Ivoryne' on a dental gum for whitening the teeth will cause confusion in trade with opposer's trade-mark 'Ivory', as used on a general-purpose soap, one particular use being as a dentifrice for sparkling white teeth, to remove tobacco stain and to eliminate cigarette breath."

The First Assistant Commissioner stated that, in an effort to prove the likelihood of confusion, opposer took the testimony of a so-called market research investigator to the effect that she had interviewed some 60 housewives in Cleveland, about half of whom indicated their assumption that applicant's product was made by opposer. The First Assistant Commissioner also stated that the Examiner of Interferences refused to consider this testimony on the ground that it was "in the nature of mere hearsay" and hence incompetent. Before the First Assistant Commissioner the opposer complained of this ruling, but he concluded that the Examiner was clearly correct, adding, however, that in the view he took of the case, such testimony would not be helpful to opposer, even were it considered.

In regard to the question of the likelihood of confusion, the First Assistant Commissioner said:

"The record discloses that in some few instances opposer's 'Ivory' soap has been used as a dentifrice, and that many years ago it was advertised as being suitable for that purpose. As pointed out by the Examiner, however, this soap, 'like other cleaning materials available in the market, is a detergent preparation of general utility, having a wide field of household and industrial uses, and its use as a dentifrice would seem to be a relatively minor one of the many for which it is adapted.' In other words, opposer's product is essentially a soap, which, in common with most soaps, may be used to clean the teeth of those having a penchant for the practice; while applicant's product is essentially a chewing gum, with incidental cleansing properties as a dentifrice only. It is clear to me that the two items are not of the same class nor of the same descriptive properties.

"Moreover, the marks of the parties are not identical. In my opinion they differ sufficiently to insure against any reasonable probability of confusion in trade even should it be held that the goods are broadly of the same description, and notwithstanding the testimony of opposer's investigator, even should such testimony be held competent."

LUCKY HEART LABORATORIES, INC., *v.* MORTON G. NEUMANN, Cancellation No. 3483.

Lucky Heart Laboratories, Inc., of Memphis, Tenn., petitioned for cancellation of trade-mark registration No. 349,940, issued September 14, 1937, to Morton G. Neumann, of Chicago, Ill. The mark so registered is the notation "Lucky Brown" displayed in association with certain design features. Neumann, in his answer, by way of affirmative relief, petitioned that the registration, No. 322,912, issued March 26, 1935, relied upon by Lucky Heart Laboratories, Inc., be canceled. The mark covered by the latter registration is the notation "Lucky Heart".

The Examiner of Trade-Mark Interferences sustained Neumann's petition and dismissed the petition of Lucky Heart Laboratories, Inc., and from his decision the latter appealed. In a decision rendered by *First Assistant Commissioner Frazer* on March 27, 1942 (163 Ms. Dec. 903, — U. S. P. Q. —), the decision of the Examiner of Trade-Mark Interferences was affirmed in so far as it dismissed the petition by Lucky Heart Laboratories, Inc., to cancel Neumann's registration, but otherwise that decision was reversed, and Neumann's petition to cancel the registration by Lucky Heart Laboratories, Inc., was likewise dismissed.

As stated by the First Assistant Commissioner, both parties deal in a line of perfumes, cosmetics and other toilet articles, intended primarily for the Negro trade and all of the marks involved in this proceeding are applied to one or more of such items.

The appellant, Lucky Heart Laboratories, Inc., in its petition for cancellation of the registration to Morton G. Neumann, the appellee, pleaded ownership of the registered mark "Lucky Heart", and by amendment alleged ownership of the unregistered mark "Good Luck". The Examiner of Trade-Mark Interferences refused to consider this latter mark because appellant had failed to allege that it was confusingly similar to the mark of the registration sought to be canceled. Upon this question the First Assistant Commissioner stated:

"While the Examiner was doubtless correct in that regard, the mark in question, even had it been properly pleaded, would have no material bearing here, because I am clearly of the opinion that it is sufficiently different from the mark of appellee's registration as to insure against any reasonable likelihood of confusion."

The First Assistant Commissioner added that, in so far as appellant's petition was concerned, the real issue was whether or not its "Lucky Heart" mark is confusingly simulated by appellee's mark, comprising the notation "Lucky Brown" displayed in association with certain design features. Upon careful inspection the First Assistant Commissioner found that mark to include a heart-shaped outline, almost totally obscured by certain pictorial matter. He stated that it was this heart-shaped outline which appellant seemed to feel conflicted with appellant's earlier adopted trade-mark "Lucky Heart". In finding that confusion was highly improbable, the First Assistant Commissioner said:

"Between the notations 'Lucky Heart' and 'Lucky Brown,' as applied to the goods involved, and considering the class of purchasers to whom such goods are sold, I think that confusion is highly improbable: It is a fact of record that such purchasers rely upon colors, pictures, and the general appearance of containers, rather than upon words, as indicating the origin of merchandise. And while it may be that in some instances the picture of a heart would be confused with the equivalent word, the heart-shaped outline in appellee's mark as registered is so inconspicuous as to be negligible in comparing the mark as a whole with appellant's mark. It is my opinion that appellant's petition was properly dismissed."

With respect to the petition by Morton G. Neumann for cancellation, the First Assistant Commissioner stated:

"Appellee's petition to cancel appellant's registration is predicated upon appellee's use and alleged ownership of several trade-marks, some of which are registered, and probably all of which, with the exception of the 'Lucky Brown' mark, were in use before appellant's registered mark. These marks are such notations as 'Lucky Mo-Jo,' 'Lucky Fortune Teller,' and 'Lucky Spirit,' used either alone or with various pictorial features, sometimes including a heart-shaped outline as in the 'Lucky Brown' mark. As in that mark, however, the heart serves only as a background for other matter, and is always obscured to such an extent as to be relatively inconspicuous. The only mark appellee has used, with which appellant's mark would be likely to be confused, is the notation 'Lucky Sweethearts;' and that mark may not properly be considered, because it was not pleaded in appellee's petition to cancel.

"It seems to be conceded by both parties that the word 'Lucky' alone is devoid of trade-mark significance as applied to the particular goods involved, so that with respect to this element of the several marks I find it unnecessary to determine the question of priority of use. Each party accuses the other of various acts of alleged unfair competition, which may or may not have resulted in confusion to the damage of one or the other. These, however, are matters with which the Patent Office has no concern in a proceeding of this character, and with regard to which I must decline to express an opinion."

The First Assistant Commissioner therefore concluded that the petition for cancellation by Morton G. Neumann should be dismissed.

EX PARTE CHERRY-BURRELL CORPORATION, Serial No. 412,948.

In a decision rendered March 9, 1942 (163 Ms. Dec. 897, 52 U. S. P. Q. 588), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks in refusing registration under the provisions of the act of March 19, 1920, to the Cherry-Burrell Corporation of Chicago, Ill., of the words "Spray Pasteurizer," as a trade-mark for milk pasteurizing machinery. The position of the Examiner was "that the mark names the goods and does nothing more." In his decision the First Assistant Commissioner said:

"Applicant asserts that it has made extensive use of the mark over a period of many years, and that 'the trade identifies applicant's goods by the trade-mark Spray Pasteurizer, as distinguished from the identification of the goods of competitive manufacturers.' Applicant seems to concede, however, and the record conclusively shows, that the particular type of pasteurizer upon which the mark is used features 'the Cherry-Burrell method of spray heating;' or, as stated in the brief, includes 'Mechanism for causing a spray of the heating medium upon the lining of a container in which a product is being pasteurized.' In other words, applicant's device is a pasteurizer operated in part by the use of a spray, and it is difficult to conceive of an expression that would more aptly name such device than does 'spray pasteurizer.'

Generally speaking, descriptiveness is no bar to the registration of a mark under the Trade-Mark Act of 1920, provided only that it is capable of trade-mark significance. But manifestly the mere name of an article must remain open to use by all. It is not subject to exclusive appropriation in the guise of a trade-mark, and may not properly be registered as such, even under the liberal terms of the 1920 act."

The applicant pointed to certain registered marks which, it asserted, were equally objectionable with its own. However, the First Assistant Commissioner stated that the propriety of those registrations was not before him for determination and that their existence did not add anything to the registrability of applicant's mark.

THE DELAWARE LACKAWANNA & WESTERN COAL COMPANY *v.* CONSOLIDATION COAL COMPANY, Opposition No. 19,795.

In a decision rendered March 10, 1942 (163 Ms. Dec. 898, 52 U. S. P. Q. 588), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of The Delaware Lackawanna & Western Coal Company of New York, N. Y., to the application of Consolidation Coal Company, also of New York, N. Y., for registration of a trade-mark for coal. The application described that trade-mark as follows:

"The trade-mark consists of blue, red and yellow coloring matter, applied or affixed to the surface of the coal as specks, spots, splotches, smears, or spatters, said coloring matter being applied by spraying, painting, scattering of drops or otherwise applying the same directly to the surface of the lumps of coal in substantially spattered effect."

Opposer relied upon two trade-mark registrations owned by it and for the same goods. Both issued some years prior to applicant's date of first use. The First Assistant Commissioner stated that one of these registered marks is the notation, "Blue Mark", and the other "consists in coloring the surface of some of the lumps of coal in the mass blue." He also stated that opposer appears to have advertised its product as "blue coal" and, to some extent at least, to have taught the purchasing public to look for the lumps colored blue as a means of identification.

In agreeing with the Examiner that the concurrent use of the respective marks of the parties would be reasonably likely to cause confusion, the First Assistant Commissioner stated:

"Applicant's 'specks, spots, splotches, smears, or spatters,' when applied to a lump of coal, would necessarily assume various shapes and sizes; and it may frequently happen that the predominant color on an occasional lump would be blue. Moreover, domestic consumers are not likely to make a close inspection of the coal in their bins. Having used opposer's 'blue coal,' or having seen it advertised, I am convinced that many purchasers would assume applicant's coal to have the same origin, despite the addition of red and yellow spots.

"The most that can be said in applicant's favor is that there may be some doubt as to the probability of confusion; and opposer, being the first in the field, is entitled to the benefit of that doubt."

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 28, 1942

[VOL. 537. No. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 418,658. TERMINAL GRAIN COMPANY, Fort Worth, Tex. Filed Apr. 24, 1939.



Exclusive use of a tag colored blue is disclaimed. The drawing is lined for red and blue.

FOR SEED GRAINS AND FIELD SEEDS.

Claims use since May 13, 1916.

Ser. No. 442,187. BROWN COMPANY, Portland, Maine, and Berlin, N. H. Filed Apr. 2, 1941.

AQUACEL

FOR CELLULOSE PULPS.

Claims use since Mar. 7, 1941.

Ser. No. 449,463. MONSANTO CHEMICAL COMPANY, St. Louis, Mo. Filed Dec. 13, 1941.

SANTOWAX

No claim is made to the word "Wax" as such apart from the mark.

FOR SOLID WAXY MATERIALS FOR USE AS SUBSTITUTES FOR ANIMAL, MINERAL, AND VEGETABLE WAXES SOLD TO THE TRADE FOR USE IN THE INDUSTRIAL ARTS.

Claims use since Oct. 17, 1938.

CLASS 2

RECEPTACLES

Ser. No. 441,429. F-F-V EQUIPMENT CORPORATION, Richmond, Va., and Washington, D. C. Filed Mar. 11, 1941.

F-F-V

FOR THERMAL CONTAINERS MADE OF PAPER DERIVATIVES.

Claims use since Oct. 25, 1940.

Ser. No. 447,313. SHELLMAR PRODUCTS COMPANY, Mount Vernon, Ohio. Filed Sept. 25, 1941.

SHELL-SEAL

The word "Seal" is disclaimed apart from the mark.

FOR PAPER BAGS MADE FROM TRANSPARENT MATERIAL.

Claims use since June 6, 1941.

Ser. No. 449,974. ELIZABETH ARDEN, INC., New York, N. Y. Filed Jan. 3, 1942.

SUNBURST

FOR COMPACTS NOT MADE OF PRECIOUS METAL AND CONTAINING A POWDER PUFF.

Claims use since Dec. 2, 1940.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 451,032. FRIEDMAN-LOBEL, INC., New York, N. Y. Filed Feb. 17, 1942.

Plasti-Mesh

The word "Mesh" is disclaimed apart from the mark.

FOR PLASTIC BEAD MESH HANDBAGS.

Claims use since Mar. 10, 1941.

Ser. No. 451,364. NEW YORK BAG CO. INC., New York, N. Y. Filed Mar. 3, 1942.

"Patentone"

FOR LADIES' HANDBAGS AND PURSES.

Claims use since Sept. 5, 1941.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 440,645. CONSOLIDATED ROYAL CHEMICAL CORPORATION, Chicago, Ill. Filed Feb. 14, 1941.

GEM

FOR WHITE SHOE CLEANING FLUID.
Claims use since Oct. 26, 1940.

Ser. No. 450,688. W. H. PLUNKETT, doing business as Plunkett Chemical Company, Chicago, Ill. Filed Feb. 3, 1942.

P C

FOR CLEANING COMPOUND FOR PORCELAIN AND METAL SURFACES, CLEANSER WITH DISINFECTING PROPERTIES, AND LIQUID SOAP.
Claims use to cleaning compound since about June 1, 1910; to cleanser with disinfecting properties since about June 1, 1920; and to liquid soap since about June 1, 1930.

Ser. No. 450,693. W. H. PLUNKETT, doing business as Plunkett Chemical Company, Chicago, Ill. Filed Feb. 3, 1942.

RENOVENE

FOR CLEANING COMPOUND FOR PORCELAIN AND METAL SURFACES.
Claims use since June 1, 1910.

Ser. No. 450,776. ARMOUR AND COMPANY OF DELAWARE, Chicago, Ill. Filed Feb. 6, 1942.

VERDANT

FOR SOAPS.
Claims use since May 21, 1941.

Ser. No. 451,080. GIMBEL BROTHERS, INC., New York, N. Y. Filed Feb. 19, 1942.

GRAMERCY

FOR SOAP.
Claims use since Feb. 1, 1942.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 428,208. E. R. SQUIBB & SONS, New York, N. Y. Filed Feb. 3, 1940.

ENZODENT

FOR ORAL PREPARATIONS.
Claims use since Jan. 25, 1940.

Ser. No. 431,267. MOL-LA LABORATORIES, New York, N. Y. Filed Apr. 26, 1940.

ASPIR-POP

FOR MEDICINAL CONFECTION FOR RELIEF OF SIMPLE HEADACHES, SIMPLE NEURALGIA, HEAD COLDS, MINOR MUSCULAR ACHES AND PAINS.
Claims use since Apr. 1, 1940.

Ser. No. 433,443. ELI LILLY AND COMPANY, Indianapolis, Ind. Filed June 27, 1940.

NEGATAN

FOR MEDICINAL PREPARATION CONTAINING AN AQUEOUS SOLUTION OF A CONDENSATION PRODUCT DERIVED FROM THE REACTION OF A SULFONIC ACID WITH FORMALDEHYDE USED IN THE TREATMENT OF CERVICITIS AND TRICHOMONAS VAGINITIS.
Claims use since Mar. 19, 1940.

Ser. No. 440,652. DANIEL W. HITT, doing business as The Lobrin Company, Dallas, Tex. Filed Feb. 14, 1941.

LOBRIN

FOR ACETANILIDE COMPOUND TABLET.
Claims use since May 1, 1936.

Ser. No. 449,691. HARRY D. KOENIG, doing business as Anré, New York, N. Y. Filed Dec. 22, 1941.



FOR FACE POWDERS, FACE ROUGE, FACE CREAMS, LIPSTICKS, TOILET WATER, PERFUMES, SACHETS, BRILLIANTINE, BATH POWDER, BATH SALTS, ASTRINGENT LOTION, ACNE LOTION, DEODORANTS, MASCARA, TALCUMS, SHAMPOOS.
Claims use since Dec. 1, 1941.

Ser. No. 449,729. J. L. SINYKIN, doing business as D'Ciny, St. Paul, Minn. Filed Dec. 23, 1941.

LIBERTY BELL

FOR EAU DE COLOGNE AND PERFUME.
Claims use since Feb. 20, 1941.

Ser. No. 449,765. D. R. COLLINS, LTD., London, England. Filed Dec. 26, 1941.

GOYA

Trade-mark consists in the name of the famous Spanish artist.
FOR PERFUMES, FACE POWDER, AND ESSENCES FOR TOILET PURPOSES.
Claims use since November, 1937.

Ser. No. 450,233. JOHN LUCAS AND COMPANY, INCORPORATED, Philadelphia, Pa. Filed Jan. 15, 1942.

COPPA-TONE

FOR INSECTICIDES AND FUNGICIDES.
Claims use since Mar. 13, 1936.

Ser. No. 450,234. JOHN LUCAS AND COMPANY, INCORPORATED, Philadelphia, Pa. Filed Jan. 15, 1942.

KIL-TONE

The word "Kil" is disclaimed apart from the mark.
FOR INSECTICIDES AND FUNGICIDES.
Claims use since January, 1913.

Ser. No. 450,847. COSMETIC COMPANY, Boston, Mass. Filed Feb. 9, 1942.



The drawing is lined for the colors green and orange. Applicant disclaims the word "Ivy" apart from the mark.
FOR PHARMACEUTICAL PREPARATION FOR THE TREATMENT OF IVY POISONING AND THE LIKE.
Claims use since Jan. 19, 1942.

Ser. No. 450,910. A. E. STALEY MANUFACTURING COMPANY, Decatur, Ill. Filed Feb. 11, 1942.

Staymone

FOR PLANT GROWTH PROMOTING SUBSTANCES HAVING CHARACTERISTICS OF WHAT ARE COMMONLY KNOWN AS CHEMICAL HORMONES.
Claims use since Jan. 23, 1942.

Ser. No. 450,975. ODOREDO PENTUFF, Tampa, Fla. Filed Feb. 14, 1942.



No claim is made to the phrase "For Roaches" apart from the association shown.
FOR ROACH POWDER (NON-POISONOUS).
Claims use since May, 1939.

Ser. No. 451,051. EDWARD G. FARRELL, Prairie Du Chien, Wis. Filed Feb. 18, 1942.



FOR TREATMENT OF COUGHS DUE TO COLDS AND PREPARATION IN THE NATURE OF A RUB FOR EXTERNAL APPLICATION IN THE TREATMENT OF MUSCULAR ACHES AND PAINS AND BODY SORENESS.
Claims use since Feb. 6, 1942.

Ser. No. 451,064. AMERICAN MAIZE-PRODUCTS COMPANY, New York, N. Y. Filed Feb. 19, 1942.



SPEEDWAY

FOR LAUNDRY STARCH.
Claims use since Feb. 2, 1942.

Ser. No. 451,157. RALPH D. ALLUM, New York, N. Y. Filed Feb. 23, 1942.

C-PLEN

The letter "C" is disclaimed.
FOR NATURAL CITRUS FRUIT CONCENTRATE AND FOR CITRUS FRUIT CONCENTRATE FORTIFIED WITH ASCORBIC ACID, FOR USE IN VITAMIN C DEFICIENCIES.
Claims use since Feb. 9, 1942.

Ser. No. 451,213. HELENA RUBINSTEIN, INC., New York, N. Y. Filed Feb. 25, 1942.

WHITE FLAME

FOR PERFUMES AND COLOGNES.
Claims use since Feb. 6, 1942.

Ser. No. 451,218. RUDOLPH HOLMBERG, doing business as Neptune Health Products, New York, N. Y. Filed Feb. 25, 1942.

C-VOSE

FOR PREPARATION WHICH AIDS IN TEMPORARILY RELIEVING OCCASIONAL CONSTIPATION.
Claims use since Feb. 1, 1941.

Ser. No. 451,273. QUIKAPS PRODUCTS CO., Amityville, N. Y. Filed Feb. 27, 1942.

QUIKAPS

FOR PREPARATION USED FOR THE RELIEF OF SIMPLE HEADACHES, NEURALGIA, MINOR MUSCULAR ACHES CAUSED BY OVER-EXERTION, MINOR PAIN ASSOCIATED WITH FUNCTIONAL MENSTRUAL DISTURBANCES AND FOR SIMPLE TOOTHACHE.
Claims use since January, 1940.

Ser. No. 451,295. CHRISTY COSMETICS, INC., New York, N. Y. Filed Feb. 28, 1942.

WAR PAINT

Applicant disclaims the term "Paint" apart from the mark.
FOR LIPSTICKS.
Claims use since Nov. 20, 1941.

Ser. No. 451,385. LEHN & FINK PRODUCTS CORPORATION, Bloomfield, N. J. Filed Mar. 4, 1942.

FIGHTING RED

No claim is made to the word "Red" apart from the mark.
FOR LIPSTICKS, COMPACT ROUGE, CREAM ROUGE, AND NAIL POLISH.
Claims use since Feb. 2, 1942, on lipsticks; since Feb. 13, 1942, on compact rouge; since Feb. 16, 1942, on nail polish; and since Feb. 18, 1942, on cream rouge.

Ser. No. 451,419. PREMO PHARMACEUTICAL LABORATORIES, INC., New York, N. Y. Filed Mar. 5, 1942.

NICOMIDE

FOR VITAMIN CONCENTRATE IN CAPSULE, TABLET AND LIQUID FORM.
Claims use since Apr. 18, 1941.

Ser. No. 451,471. F. J. MANN, INC., Long Island City, N. Y. Filed Mar. 7, 1942.

KARDIAMINE

FOR PHARMACEUTICAL PREPARATION TO BE USED AS A HEART STIMULANT CONTAINING PYRIDINE-B-CARBOXYLIC ACID DIETHYLAMIDE.
Claims use since Feb. 26, 1942.

Ser. No. 451,668. CIBA PHARMACEUTICAL PRODUCTS, INC., Summit, N. J. Filed Mar. 17, 1942.

AGOMEN

FOR WATER SOLUBLE OVARIAN EXTRACT.
Claims use since May 3, 1940.

Ser. No. 451,669. CIBA PHARMACEUTICAL PRODUCTS, INC., Summit, N. J. Filed Mar. 17, 1942.

SISTOMEN

FOR LIPO-SOLUBLE OVARIAN EXTRACT.
Claims use since May 3, 1940.

Ser. No. 451,670. CIBA PHARMACEUTICAL PRODUCTS, INC., Summit, N. J. Filed Mar. 17, 1942.

TRASENTINE

FOR ANTISPASMODIC.
Claims use since Feb. 11, 1942.

Ser. No. 451,694. E. R. SQUIBB & SONS, New York, N. Y. Filed Mar. 17, 1942.

DICOCE

FOR ANTICOCCIDIOTIC PREPARATIONS.
Claims use since June 20, 1941.

Ser. No. 451,708. GEO. P. BRAUN COMPANY, Chicago, Ill. Filed Mar. 18, 1942.

GOLDEN GLOW

FOR VITAMIN FORTIFIER, A COMPOUND OR PREPARATION USED TO FORTIFY FOODS DEFICIENT IN VITAMINS.
Claims use since Sept. 26, 1940.

Ser. No. 451,716. HECTOR HUARD, JR., doing business as The Huard Laboratories, Norwich, Conn. Filed Mar. 18, 1942.



EARLY BIRD

FOR DOG VERMIFUGE.
Claims use since October, 1941.

Ser. No. 451,729. WILLIAM A. SCHWALB, doing business as Edghills Laboratories, New York, N. Y. Filed Mar. 18, 1942.



FOR HAIR PREPARATIONS—NAMELY, SHAMPOO AND SULPHUR AND SULPHUR HAIR CREAM.
Claims use since 1940.

Ser. No. 451,777. PREMO PHARMACEUTICAL LABORATORIES, INC., New York, N. Y. Filed Mar. 20, 1942.

PREMOPHEN

FOR LAXATIVE PREPARATION.
Claims use since March, 1932.

CLASS 12
CONSTRUCTION MATERIALS

Ser. No. 450,613. BASIC REFRACTORIES, INC., Cleveland, Ohio. Filed Jan. 31, 1942.

RAMIX

FOR REFRACTORY PREPARATIONS SUITABLE FOR FURNACE LINING AND REFAIRING.
Claims use since Feb. 8, 1939.

CLASS 14
METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 450,945. HARRY A. SMITH, doing business as The Diamalloy Co., Gowanda, N. Y. Filed Feb. 13, 1942.

DIAMALLOY

FOR METALLIC WELDING RODS.
Claims use since February, 1940.

CLASS 15
OILS AND GREASES

Ser. No. 450,816. THE SPLIT SECOND GAS COMPANY, Denver, Colo. Filed Feb. 6, 1942.

SPLIT SECOND

FOR GASOLINE.
Claims use since May 1, 1941.

Ser. No. 450,854. IROQUOIS OIL CORP., Buffalo, N. Y. Filed Feb. 9, 1942.

IROQUOIS



FOR FUEL OIL, MOTOR OIL, AND GASOLINE.
Claims use since Jan. 1, 1936.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 432,417. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif. Filed May 27, 1940.

UNITEC

FOR MINERAL OILS FOR USE IN THE MANUFACTURE OF PAINTS, FLOOR OILS, RUST PREVENTIVE PAINTS, AND PAINTING COMPOSITIONS FOR WOOD, METAL, AND FABRIC SURFACES IN GENERAL, AND FOR USE AS FLOOR OILS, AND THINNERS FOR PAINTS, LACQUERS, VARNISHES, ENAMELS, STAINS, AND THE LIKE.
Claims use since Apr. 30, 1940.

Ser. No. 450,691. W. H. PLUNKETT, doing business as Plunkett Chemical Company, Chicago, Ill. Filed Feb. 3, 1942.

PRESTO-SHINE

No claim is made to the word "Shine" apart from the mark.
FOR FLOOR FINISH, COMMONLY KNOWN AS FLOOR WAX.
Claims use since June 1, 1930.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 437,286. THE PULLMAN COMPANY, Chicago, Ill. Filed Oct. 25, 1940.

ROOMETTE

FOR RAILROAD PASSENGER CARS.
Claims use since May 20, 1937.

Ser. No. 442,305. CHAMPION BRAKE CORPORATION, Chicago, Ill. Filed Apr. 5, 1941.

MICRO-MATIC

FOR RAILWAY CAR HAND BRAKES.
Claims use since Dec. 11, 1940.

Ser. No. 449,305. THE TOLEDO STEEL PRODUCTS COMPANY, Toledo, Ohio. Filed Dec. 8, 1941.



FOR TIE ROD ENDS FOR VEHICLES, VEHICLE SHACKLES, VEHICLE SPRING BUSHINGS, AND INDEPENDENT FRONT WHEEL SUSPENSION PARTS FOR VEHICLES AS FOLLOWS: KNUCKLE SUPPORT ASSEMBLIES, UPPER AND LOWER CONTROL ARMS, UPPER AND LOWER CONTROL ARM SHAFTS, AND BUSHINGS.
Claims use on tie rod ends for vehicles since March, 1936; on vehicle spring bushings since March, 1936; on vehicle shackles since March, 1936; and on independent front wheel suspension parts for vehicles since January, 1939.

Ser. No. 451,023. TRANSCONTINENTAL & WESTERN AIR, INC., North Kansas City, Mo. Filed Feb. 16, 1942.

SOLARLINER

FOR AIRPLANES.
Claims use since Feb. 4, 1942.

Ser. No. 451,024. TRANSCONTINENTAL & WESTERN AIR, INC., North Kansas City, Mo. Filed Feb. 16, 1942.

SOLARSHIP

FOR AIRPLANES.
Claims use since Feb. 4, 1942.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 440,754. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla. Filed Feb. 18, 1941.

PHILGLAS

FOR STORAGE BATTERIES.
Claims use since Oct. 23, 1940.

Ser. No. 444,624. WILLARD STORAGE BATTERY COMPANY, Cleveland, Ohio. Filed June 17, 1941.

CHARGE PRESERVER

Applicant disclaims the word "Charge" except as shown.
FOR STORAGE BATTERY CHARGERS.
Claims use since Apr. 12, 1941.

Ser. No. 446,622. E. A. LABORATORIES, INC., Brooklyn, N. Y. Filed Aug. 28, 1941.

VICTORY

FOR ELECTRIC HORNS AND LAMPS FOR USE ON VEHICLES, BICYCLES, AUTOMOBILES, AND TRUCKS.
Claims use since Aug. 4, 1941.

Ser. No. 447,784. AERONAUTICAL RADIO, INC., Washington, D. C. Filed Oct. 13, 1941.



No claim is made to the words "Aeronautical Radio, Incorporated" except as shown.
FOR RADIO TRANSMITTERS, RADIO RECEIVERS, AND PARTS AND ACCESSORIES THERETO.
Claims use since Sept. 27, 1941.

Ser. No. 450,936. JACK & HEINTZ, INC., Bedford, Ohio. Filed Feb. 13, 1942.

JAHCO

FOR INTERNAL COMBUSTION ENGINE STARTERS AND MOTORS THEREFOR.
Claims use since May, 1939.

Ser. No. 450,937. JACK & HEINTZ, INC., Bedford, Ohio. Filed Feb. 13, 1942.

JAHCO

FOR INTERNAL COMBUSTION ENGINE STARTERS AND MOTORS THEREFOR.
Claims use since May, 1939.

Ser. No. 450,938. JACK & HEINTZ, INC., Bedford, Ohio. Filed Feb. 13, 1942.

JAHCO

FOR INTERNAL COMBUSTION ENGINE STARTERS AND MOTORS THEREFOR.
Claims use since May, 1939.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 450,060. SPALDING SALES CORPORATION, Chicopee, Mass. Filed Jan. 7, 1942.

DAVIS CUP



No claim is made to the surname "Davis" apart from the mark.
FOR TENNIS RACKETS.
Claims use since 1912.

Ser. No. 451,383. IDEAL NOVELTY & TOY CO., Long Island City, N. Y. Filed Mar. 4, 1942.

FLOPSIE

FOR TOY ANIMALS.
Claims use since Feb. 17, 1942.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 448,488. ARIENS COMPANY, Brillion, Wis. Filed Nov. 10, 1941.

Ariens

ACCMIXER

The word "Ariens" is disclaimed apart from the mark.
FOR MACHINE FOR PREPARING, APPLYING, AND LEVELING THE SURFACE OF ROADS.
Claims use since February, 1940.

Ser. No. 448,684. STERLING TOOL PRODUCTS COMPANY, Chicago, Ill. Filed Nov. 15, 1941.



"SANDY"

The picture is fanciful.
FOR SANDING OR POLISHING MACHINES.
Claims use since July, 1941.

Ser. No. 449,397. SHEFFIELD STEEL CORPORATION, Kansas City, Mo. Filed Dec. 11, 1941.

MOLY-COP

The drawing is lined for red. The representation of the goods is disclaimed except as shown.
FOR STEEL ALLOY GRINDING BALLS.
Claims use since Oct. 2, 1941.

Ser. No. 450,802. LEAR AVIA, INC., Piqua, Ohio. Filed Feb. 6, 1942.

FASTOP

FOR MECHANICAL DRIVING SYSTEMS—NAMELY, CLUTCHES AND MECHANICAL BRAKES, AND ELECTROMECHANICAL CLUTCHES.
Claims use since December, 1940.

Ser. No. 450,956. THE CLEVELAND GRAPHITE BRONZE COMPANY, Cleveland, Ohio. Filed Feb. 14, 1942.

MICRO.

FOR BEARINGS.
Claims use since Oct. 1, 1941.

Ser. No. 451,173. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass. Filed Feb. 23, 1942.

SENATOR

FOR SAFETY RAZORS.
Claims use since Mar. 1, 1938.

Ser. No. 451,258. CAMILLUS CUTLERY CO., New York, N. Y. Filed Feb. 27, 1942.

SWORD BRAND

The word "Brand" is disclaimed apart from the mark.
FOR POCKET, PARING, BREAD, BUTCHER, BONING, HUNTING, AND KITCHEN KNIVES AND SCISSORS.
Claims use since June 26, 1906.

Ser. No. 451,599. THE HOBART MANUFACTURING COMPANY, Troy, Ohio. Filed Mar. 13, 1942. Under 10-year proviso.

Hobart

FOR MACHINES FOR GRINDING COFFEE, PEANUTS, SPICES, AND THE LIKE, MACHINES FOR GRINDING BONES, MACHINES FOR CHOPPING MEAT AND FOOD, MIXING MACHINES, CANDY MAKING MACHINES, MACHINES FOR PEELING POTATOES AND VEGETABLES, PEEL TRAPS FOR SAID PEELING MACHINES, SLICING MACHINES, MACHINES FOR EXTRACTING JUICES FROM FRUITS AND VEGETABLES, MACHINES FOR SHREDDING AND GRATING FRUITS AND VEGETABLES, MACHINES FOR SIEVING AND STRAINING FRUITS AND VEGETABLES, MACHINES FOR WASHING DISHES AND INDUSTRIAL WASHERS FOR MACHINE PARTS AND THE LIKE, MACHINES FOR WHIPPING CREAM AND FOR AERATING FOOD PRODUCTS, LIQUID DISPERSIONS, OR SUSPENSIONS, MACHINES FOR SIFTING FLOUR, MACHINES FOR CHIPPING ICE, MACHINES FOR CRUMBING BREAD, MACHINES FOR SHARPENING KNIVES, AND MACHINES FOR BUFFING AND POLISHING.
Claims use since November, 1889.

Ser. No. 451,723. LINCOLN ENGINEERING COMPANY, St. Louis, Mo. Filed Mar. 18, 1942.

Piledriver

FOR PUMPS FOR LUBRICANTS, PUTTY-LIKE MATERIALS SUCH AS MASTICS, CAULKING COMPOUNDS AND THE LIKE.
Claims use since Apr. 18, 1941.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 449,117. EDWIN P. BLAIR, Philadelphia, Pa. Filed Dec. 3, 1941.

TAX-I-METER

The word "Tax" apart from the mark is disclaimed.
FOR INCOME TAX CALCULATING DEVICES COMPRISING TWO CONCENTRICALLY MOUNTED CARDS ROTATABLE RELATIVELY TO EACH OTHER, EACH OF SAID CARDS BEARING CERTAIN PERTINENT DATA.
Claims use since Nov. 28, 1941.

Ser. No. 451,307. ALEXANDER KONO, doing business as The Kono Manufacturing Company, Woodside, L. I., N. Y. Filed Feb. 28, 1942.

KOWINGS

FOR EYEGLASS AND SPECTACLE FRAMES AND PARTS THEREFOR, INCLUDING NOSEPIECES, TEMPLES, AND THE LIKE, OF METAL, SHELL, AND VARIOUS PLASTIC COMPOSITIONS.
Claims use since Dec. 24, 1941.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 450,835. LATHAM WATCH CO., INC., New York, N. Y. Filed Feb. 7, 1942.

LORTEN

FOR WATCHES AND WATCH MOVEMENTS.
Claims use since Jan. 22, 1940.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 450,499. THE VAN DELL COMPANY, Providence, R. I. Filed Jan. 26, 1942.

PRECIOUS-ALL

The name "Precious" is disclaimed apart from the mark.
FOR JEWELRY ORNAMENTS, MEN'S JEWELRY, NOT INCLUDING WATCHES, LADIES' JEWELRY, NOT INCLUDING WATCHES—NAMELY, BRACELETS, CLIPS, LOCKETS, PINS AND BROOCHES, AND PARTS THEREOF, MADE WHOLLY OF GOLD AND SILVER.
Claims use since Oct. 1, 1941.

Ser. No. 450,569. EVE NATHANSON, East Greenwich, R. I. Filed Jan. 29, 1942.

WINGS OF VICTORY

FOR ORNAMENTAL JEWELRY NOT INCLUDING WATCHES—NAMELY, PINS, BROOCHES, CLIPS, NECKLACES, LOCKETS, PENDANTS, BRACELETS, EARRINGS, COMPACTS, LADIES' DRESS ORNAMENTS, TIE CLIPS, COLLAR HOLDERS, CUFF LINKS, AND CIGARETTE CASES, ALL OF THE FOREGOING ARTICLES BEING MADE IN WHOLE OR IN PART OF PRECIOUS OR SEMI-PRECIOUS METAL OR BEING PLATED THEREWITH.
Claims use since Sept. 15, 1939.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 450,230. DAN COOPER, New York, N. Y. Filed Jan. 20, 1942.

TIDBIT

FOR TABLES—NAMELY, LIVING ROOM, DINING ROOM, BED ROOM, AND REFRESHMENT TABLES.
Claims use since Dec. 30, 1941.

Ser. No. 450,655. MICHIGAN ARTCRAFT COMPANY, Sparta, Mich. Filed Feb. 2, 1942.



The representation of the female figure is fanciful. The illustration of a table is disclaimed apart from the mark.
FOR DROP LEAF TABLES, EXTENSION DROP LEAF TABLES, AND CABINET DROP LEAF TABLES.
Claims use since June 24, 1940.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 443,138. E. E. SOUTHER IRON COMPANY, St. Louis, Mo. Filed Apr. 30, 1941.



FOR AIR CONDITIONING UNITS.
Claims use since March, 1938.

Ser. No. 447,522. THE KEHM CORPORATION, Chicago, Ill. Filed Oct. 3, 1941.

FREE AIRE

The word "Aire" is disclaimed apart from the mark.
FOR DIRECT-FIRED WARM AIR HEATING EQUIPMENT EMPLOYING GAS, COAL OR OIL AS FUEL—NAMELY, CIRCULATING HEATERS, FLOOR FURNACES, UNIT HEATERS, AND SPACE HEATERS.
Claims use since Sept. 18, 1941.

Ser. No. 450,999. THE BURDEN-BRYANT COMPANY, Springfield, Mass. Filed Feb. 16, 1942. Under 10-year proviso.

STEWART

FOR GAS, ELECTRIC, AND COAL STOVES AND RANGES.
Claims use since June 17, 1890.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 445,254. BETTER MONKEY GRIP CO., Arlington, Tex. Filed July 11, 1941.

SIZZLE

The words "Actual Size of Unit" are disclaimed apart from the mark. The representation of the patch is disclaimed per se.
FOR VULCANIZING PATCHES.
Claims use since June 10, 1937.

CLASS 37

PAPER AND STATIONERY

Ser. No. 450,372. THE MONO-SCRIPT CO. INC., New York, N. Y. Filed Jan. 21, 1942.

Mono-Script

FOR FOUNTAIN MARKERS EMPLOYING FELT OR OTHER FIBROUS MATERIAL TIPS FOR MARKING OR WRITING WITH UPON PAPER, CARDBOARD, WOOD, PREPARED FABRIC OR THE LIKE.
Claims use since Oct. 17, 1941.

Ser. No. 450,659. H. G. O'LAVERTY, doing business as Laundry Sales and Advertising of the U. S. A., Battle Creek, Mich. Filed Feb. 2, 1942.

Five & Five

FOR LABELS WITH PRINTING THEREON.
Claims use since Jan. 31, 1942.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 450,397. INTERSTATE PUBLISHING CO., Boston, Mass. Filed Jan. 22, 1942.

THE WAGE EARNER

FOR NEWSPAPER.
Claims use since April, 1909.

Ser. No. 451,331. YOURSELF PUBLICATIONS, INC., New York, N. Y. Filed Feb. 28, 1942.

WOMAN'S LIFE

FOR MAGAZINE PUBLISHED FROM TIME TO TIME.
Claims use since Feb. 2, 1942.

Ser. No. 451,370. J. HORACE STRUNK, Bangor, Pa. Filed Mar. 3, 1942.

HOMEFRONT

FOR MONTHLY MAGAZINE.
Claims use since Jan. 10, 1942.

CLASS 39

CLOTHING

Ser. No. 438,767. T. F. How & SON LIMITED, Leicester, England. Filed Dec. 12, 1940.



The words "Fine Knitwear" and "British" are disclaimed apart from the mark.
FOR MEN'S AND CHILDREN'S UNDERCLOTHING, AND WOMEN'S UNDERWEAR—NAMELY, PETTICOATS, SLIPS, BRASSIÈRES, PANTIES; AND CORSETS; WOMEN'S KNITTED JUMPERS, SWEATERS, CARDIGANS, COATS, SUITS, FROCKS, AND SKIRTS; AND MEN'S KNITTED PULLOVERS, SWEATERS, AND COATS.
Claims use since Dec. 16, 1939.

Ser. No. 438,858. WEE-FOLKS DIAPER SERVICE, Chicago, Ill. Filed Dec. 14, 1940.

Wee-Folks

FOR STERILIZED DIAPERS.
Claims use since June 1, 1935.

Ser. No. 440,887. SONDRA UNDERGARMENTS, INC., New York, N. Y. Filed Feb. 21, 1941.



The picture is fanciful.
FOR LADIES' UNDERWEAR, NIGHTGOWNS, AND PAJAMAS.
Claims use since June 1, 1938.

Ser. No. 445,980. DUTCHESS UNDERWEAR CORPORATION, New York, N. Y. Filed Aug. 5, 1941.

BEAUTI L' AMOUR

No claim is made to the word "Beauti" apart from the mark.
FOR LADIES' UNDERWEAR, PAJAMAS, AND NIGHTGOWNS.
Claims use since June 15, 1941.

Ser. No. 445,981. DUTCHESS UNDERWEAR CORPORATION, New York, N. Y. Filed Aug. 5, 1941.

GLA MOUR L' AMOUR

FOR LADIES' UNDERWEAR, PAJAMAS, AND NIGHTGOWNS.
Claims use since July 1, 1941.

Ser. No. 445,982. DUTCHESS UNDERWEAR CORPORATION, New York, N. Y. Filed Aug. 5, 1941.

LOVLI L' AMOUR

No claim is made to the word "Lovli" apart from the mark.
FOR LADIES' UNDERWEAR, PAJAMAS, AND NIGHTGOWNS.
Claims use since July 1, 1941.

Ser. No. 447,325. DUTCHESS UNDERWEAR CORPORATION, New York, N. Y. Filed Sept. 26, 1941.

COR DURA L' AMOUR

FOR LADIES' UNDERWEAR, PAJAMAS, NIGHTGOWNS, AND STREET DRESSES.
Claims use since July 1, 1941.

Ser. No. 447,326. DUTCHESS UNDERWEAR CORPORATION, New York, N. Y. Filed Sept. 26, 1941.

MULTI L' AMOUR

FOR LADIES' UNDERWEAR, PAJAMAS, NIGHTGOWNS, AND STREET DRESSES.
Claims use since July 1, 1941.

Ser. No. 447,327. DUTCHESS UNDERWEAR CORPORATION, New York, N. Y. Filed Sept. 26, 1941.

NY LON L' AMOUR

No claim is made to the words "Ny lon' apart from the mark.
FOR LADIES' UNDERWEAR, PAJAMAS, NIGHTGOWNS, AND STREET DRESSES.
Claims use since July 1, 1941.

Ser. No. 450,599. N & W TAILORS, INC., Cincinnati, Ohio. Filed Jan. 30, 1942.

N&W Tailors

No claim is made to the word "Tailors" apart from the mark.
FOR MEN'S COATS, VESTS, PANTS, OVERCOATS, AND TOPCOATS, AND WOMEN'S COATS AND SKIRTS.
Claims use since Jan. 1, 1923.

Ser. No. 450,900. THE JULIAN & KOKENGE CO., Columbus, Ohio. Filed Feb. 11, 1942.

The Foot Saver

FOR SHOES MADE OF LEATHER, FABRIC OR A COMBINATION OF THESE MATERIALS.
Claims use since Dec. 29, 1920.

Ser. No. 450,912. WELLS LAMONT SMITH CORPORATION, Chicago, Ill. Filed Feb. 11, 1942.

Handy Andy

FOR WORK GLOVES.
Claims use since June 14, 1938.

Ser. No. 450,955. CHICAGO MAIL ORDER COMPANY, Chicago, Ill. Filed Feb. 14, 1942.

STEEL STRONG

The word "Strong" is disclaimed apart from the mark.
FOR MEN'S AND BOYS' WORK CLOTHING—NAMELY, OVERALLS AND JUMPERS.
Claims use since July 17, 1940.

Ser. No. 451,012. LEFCORT HOSIERY COMPANY, INC., New York, N. Y. Filed Feb. 16, 1942.



The words "de Chine" are disclaimed apart from the mark.
FOR LADIES' AND MISSES' HOSIERY OF SYNTHETIC OR COTTON YARNS AND MIXTURES THEREOF.
Claims use since December, 1940.

Ser. No. 451,286. BOTANY WORSTED MILLS, Passaic, N. J. Filed Feb. 28, 1942.

DURATION

FOR NECKTIES.
Claims use since Feb. 18, 1942.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 450,649. KORRECT COAT COMPANY, Cleveland, Ohio. Filed Feb. 2, 1942.

Koradown

FOR WOOLEN PIECE GOODS.
Claims use since Oct. 1, 1941.

Ser. No. 450,650. SAM LICHTENBERG, INC., New York, N. Y. Filed Feb. 2, 1942.

Aqua-Cel

FOR TAILORED AND RUFFLED CURTAINS MADE OF CELANESE YARN.
Claims use since Nov. 26, 1941.

Ser. No. 450,711. COURTAULDS, LIMITED, London, England. Filed Feb. 4, 1942.

ABERMATT

FOR PIECE GOODS MADE OF CELLULOSE YARNS.
Claims use since 1930.

Ser. No. 450,717. COURTAULDS, LIMITED, London, England. Filed Feb. 4, 1942.

COURTESSA

FOR ARTIFICIAL SILK PIECE GOODS.
Claims use since 1938.

Ser. No. 450,719. COURTAULDS, LIMITED, London, England. Filed Feb. 4, 1942.

DULABER

FOR PIECE GOODS MADE OF CELLULOSE YARNS.
Claims use since 1929.

Ser. No. 450,721. COURTAULDS, LIMITED, London, England. Filed Feb. 4, 1942.

DULCOURTO

FOR PIECE GOODS MADE OF CELLULOSE YARNS.
Claims use since 1928.

Ser. No. 450,723. COURTAULDS, LIMITED, London, England. Filed Feb. 4, 1942.

DULVISCA

FOR PIECE GOODS MADE OF CELLULOSE YARNS.
Claims use since 1931.

Ser. No. 450,725. COURTAULDS, LIMITED, London, England. Filed Feb. 4, 1942.

HERAFIL

FOR PIECE GOODS MADE OF CELLULOSE YARNS.
Claims use since 1938.

Ser. No. 450,798. L. W. GUILD COMPANY, INC., Boston, Mass. Filed Feb. 6, 1942.

SUALON

FOR COTTON FABRICS IN THE PIECE OR IN CUT LENGTHS.
Claims use since June, 1941.

Ser. No. 450,799. L. W. GUILD COMPANY, INC., Boston, Mass. Filed Feb. 6, 1942.

Windjammer

FOR COTTON TEXTILE FABRICS SOLD IN THE PIECE OR CUT LENGTHS.
Claims use since Dec. 1, 1941.

CLASS 43

THREAD AND YARN

Ser. No. 450,624. THE DUPLAN CORPORATION, New York, N. Y. Filed Jan. 31, 1942. Under 10-year proviso.

Duplan

FOR YARNS MADE OF SILK, RAYON, WOOL, AND COTTON AND MIXTURES THEREOF.
Claims use since Jan. 1, 1895.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 440,513. KING'S OLD COUNTRY, LIMITED, Winnipeg, Manitoba, Canada. Filed Feb. 10, 1941.



The picture is fanciful.
FOR GINGER BEER, ROOT BEER, GINGER ALE, ORANGE POP, LEMON POP, LIME RICKEY, CREAM SODA, CHERRY POP, GRAPE POP, CLUB SODA, ORANGE CIDER, CHERRY CIDER, APPLE CIDER, AND GRAPE CIDER.
Claims use since Dec. 20, 1940.

Ser. No. 440,514. KING'S OLD COUNTRY, LIMITED, Winnipeg, Manitoba, Canada. Filed Feb. 10, 1941.



The general configuration of the bottle is disclaimed without prejudice however, to any common law rights which applicant may have therein. The trade-mark may be generally described as consisting in a design or symbol formed by a series of widely spaced longitudinally disposed grooves appearing at regular intervals around the shoulder portion of the bottle, and a second series of more closely spaced shorter longitudinally disposed grooves located around the base of the bottle equally spaced.
FOR GINGER BEER, ROOT BEER, GINGER ALE, ORANGE POP, LEMON POP, LIME RICKEY, CREAM SODA, CHERRY POP, GRAPE POP, CLUB SODA, ORANGE CIDER, CHERRY CIDER, APPLE CIDER, AND GRAPE CIDER.
Claims use since Dec. 20, 1940.

Ser. No. 446,084. NATIONAL NUGRAPE COMPANY, Atlanta, Ga. Filed Aug. 8, 1941.

RED • DOT

FOR NONALCOHOLIC MALTLESS CARBONATED BEVERAGES AND EXTRACTS AND SYRUPS FOR MAKING SAME.
Claims use since May 5, 1941.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 422,860. PACIFIC FOOD PRODUCTS CO. INC., San Francisco, Calif. Filed Aug. 22, 1939.

SILVER BEAM

FOR SEA FOOD—NAMELY, FISH AND SHELLFISH IN FRESH, FROZEN, CANNED, DRIED, SALTED, SMOKED, AND PRESERVED STATES.
Claims use since Mar. 1, 1939.

Ser. No. 439,120. NATIONAL BISCUIT COMPANY, New York, N. Y. Filed Dec. 23, 1940.

Jack AND Jill

FOR BAKERY PRODUCTS—NAMELY, ICE CREAM CONES.
Claims use since November, 1933.

Ser. No. 445,847. GENERAL MILLS, INC., Minneapolis, Minn. Filed Aug. 1, 1941.

SUREFOX

FOR FOOD FOR CARNIVOROUS ANIMALS, PARTICULARLY FOX FOOD.
Claims use since Apr. 22, 1937.

Ser. No. 447,086. WILSON & CO., INC., Chicago, Ill. Filed Sept. 16, 1941.

BAKE-RITE

FOR VEGETABLE SHORTENING.
Claims use since Sept. 6, 1910.

Ser. No. 447,940. PETRUS JACOBUS GEERLINGS, doing business as Geerlings Feed Mills, Marshalltown, Iowa. Filed Oct. 20, 1941.

HI-BRID

FOR LIVESTOCK AND POULTRY FEED.
Claims use since December, 1940.

Ser. No. 448,665. LORENZO ZERILLO, doing business as Riverbank Canning Company, Riverbank, Calif. Filed Nov. 14, 1941.

ZELO

FOR CANNED FRUITS, VEGETABLES, FISH, VEGETABLE JUICES FOR FOOD PURPOSES, TOMATO PASTE, COTTON SEED OIL, OLIVE OIL, OLIVES, FRESH DECIDUOUS FRUITS, FRESH VEGETABLES, BUTTER, MACARONI, CANNED RAVIOLI, SPAGHETTI AND MUSHROOM SAUCE.
Claims use since 1934.

Ser. No. 449,304. NELLIE TEUBERT, Edgerton, Wis. Filed Dec. 8, 1941.

TIBBIE'S

FOR BATTER FOR FRIED CHICKEN.
Claims use since Mar. 1, 1924.

Ser. No. 449,805. THE QUAKER OATS COMPANY, Chicago, Ill. Filed Dec. 27, 1941.

FUL-O-PEP

FOR STOCK AND POULTRY FEEDS.
Claims use since November, 1917, on poultry feeds; and since Aug. 13, 1941, on stock feeds.

Ser. No. 450,307. THE FAIRMONT CREAMERY COMPANY, Omaha, Nebr. Filed Jan. 19, 1942.

FAIR-WEST

Applicant is owner of T. M. Reg. No. 320,740.
FOR DRESSED POULTRY.
Claims use since Nov. 11, 1939.

Ser. No. 450,678. GENERAL FARMING COMPANY, Guadalupe, Calif. Filed Feb. 3, 1942.

SEA CREST

FOR FRESH VEGETABLES.
Claims use since December, 1936.

Ser. No. 450,863. G. B. RAFFETTO, INC., New York, N. Y. Filed Feb. 9, 1942.

CHUTNUT

FOR CHUTNEY CONDIMENT.
Claims use since May, 1941.

Ser. No. 450,869. STUART PLACE CITRUS ASSN., Harlingen, Tex. Filed Feb. 9, 1942.

Mrs. CHANGO

Applicant is the owner of trade-mark registration No. 358,245.
FOR FRESH CITRUS FRUIT.
Claims use since Jan. 26, 1942.

Ser. No. 451,461. COAST FISHING COMPANY, Wilmington, Calif. Filed Mar. 7, 1942.

WAVE-KIST

FOR CANNED FISH.
Claims use since 1930.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 448,432. ROBERT E. JAMES, Garden City, L. I., N. Y. Filed Nov. 6, 1941.

James

FOR MINIATURE FIGURES, STATUETTES, OR FIGURINES.
Claims use since Nov. 3, 1941.

Ser. No. 449,846. LANDON P. SMITH, INC., Irvington, N. J. Filed Dec. 29, 1941.

Red Devil

FOR STEPS FOR ATTACHING TO THE RUNGS OF LADDERS.
Claims use since June 1, 1937.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

APRIL 28, 1942

394,710. APPARATUS FOR ELECTROLYTICALLY PREPARING AN ANTISEPTIC SOLUTION FOR MEDICINAL AND SURGICAL USE. CONSTRUCTIONS ET APPLICATIONS RADIO-ELECTROLYTIQUES, Paris, France.
Filed February 6, 1940. Serial No. 428,278. PUBLISHED FEBRUARY 17, 1942. Class 44.

394,711. CASTINGS OF TRANSPARENT PLASTIC MATERIAL FOR USE AS NAME PLATES, BUTTONS, KNOBS, ETC. THE CARDINAL CORPORATION, Evansville, Ind.
Filed March 11, 1940. Serial No. 429,431. PUBLISHED FEBRUARY 17, 1942. Class 50.

394,712. NON-FERROUS METALS AND NON-FERROUS METAL ALLOYS. UNITED METALS REFINING COMPANY, Detroit, Mich.
Filed May 17, 1940. Serial No. 432,054. PUBLISHED FEBRUARY 17, 1942. Class 14.

394,713. NECKLACES AND BRACELETS, FINGER RINGS, EARRINGS, JEWELRY CLIPS, BROOCHES, LOCKETS, ETC. SILSON INC., New York, N. Y.
Filed July 2, 1940. Serial No. 433,634. PUBLISHED FEBRUARY 17, 1942. Class 28.

394,714. CHEESE. VILHO O. JARVINEN, New York, N. Y.
Filed July 25, 1940. Serial No. 434,330. PUBLISHED AUGUST 19, 1941. Class 46.

394,715. CAMERAS AND BINOCULARS, GOGGLES, SUN GLASSES, FIELD GLASSES, OPTICAL LENSES, ETC. WORONOCK AND ANSEN, New York, N. Y.
Filed August 23, 1940. Serial No. 435,332. PUBLISHED FEBRUARY 17, 1942. Class 26.

394,716. PEANUT BUTTER, CANE AND MAPLE SYRUP, HONEY, BREAKFAST CEREALS, BUCKWHEAT FLOUR, BUCKWHEAT CORN AND WHEAT FLOUR, PANCAKE FLOUR AND CAKE FLOUR. TOLBERTON & WARFIELD COMPANY, Sioux City, Iowa.
Filed October 8, 1940. Serial No. 436,745. PUBLISHED FEBRUARY 17, 1942. Class 46.

394,717. CANNED PINEAPPLE AND PEAR JUICE FOR FOOD PURPOSES. BARRON-GRAY PACKING COMPANY, San Jose, Calif.
Filed October 14, 1940. Serial No. 436,917. PUBLISHED FEBRUARY 17, 1942. Class 46.

394,718. ONION SETS, ONIONS USED FOR SEED PURPOSES, GARDEN SEEDS, BULBS, AND PLANTS. THE PEACOCK CORPORATION, Kenosha, Wis.
Filed November 16, 1940. Serial No. 437,966. PUBLISHED FEBRUARY 17, 1942. Class 1.

394,719. ONION SETS, ONIONS USED FOR SEED PURPOSES, GARDEN SEEDS, BULBS, AND PLANTS. THE PEACOCK CORPORATION, Kenosha, Wis.
Filed November 16, 1940. Serial No. 437,967. PUBLISHED FEBRUARY 17, 1942. Class 1.

394,720. ASPHALT, ASPHALT EMULSIONS, ASPHALT COMPOSITIONS. AMERICAN BITUMULS COMPANY, Wilmington, Del.
Filed November 25, 1940. Serial No. 438,188. PUBLISHED JANUARY 27, 1942. Class 12.

394,721. COFFEE. LAWSON COFFEE CO., INC., Sumter, S. C.
Filed December 17, 1940. Serial No. 438,951. PUBLISHED FEBRUARY 17, 1942. Class 46.

394,722. CANNED FRUITS AND VEGETABLES, CANNED SOUPS, GLASSED VINEGAR, GLASSED PEANUT BUTTER, CANNED FISH, ETC. I. JOSEPH MAZO, doing business as Mazo Brothers Company, Washington, D. C.
Filed December 28, 1940. Serial No. 439,253. PUBLISHED FEBRUARY 17, 1942. Class 46.

394,723. WORK GLOVES OF COMBINED LEATHER AND FABRIC. WELLS-LAMONT-SMITH CORPORATION, Chicago, Ill.
Filed January 2, 1941. Serial No. 439,377. PUBLISHED FEBRUARY 17, 1942. Class 39.

394,724. ROOFING COPPER AND COPPER IN SHEET FORM. REVERE COPPER AND BRASS INCORPORATED, New York, N. Y.
Filed January 4, 1941. Serial No. 439,417. PUBLISHED FEBRUARY 17, 1942. Class 14.

394,725. HIGH EXPLOSIVES. ZENITH POWDER COMPANY, Oregon City, Oreg.
Filed March 12, 1941. Serial No. 441,498. PUBLISHED FEBRUARY 17, 1942. Class 9.

394,726. BUTTER. FREDERICK F. LOWENFELS & SON, New York, N. Y.
Filed March 28, 1941. Serial No. 442,045. PUBLISHED FEBRUARY 17, 1942. Class 46.

394,727. SMOKING STANDS, ASH RECEIVERS, SMOKER'S SETS, CIGARETTE SERVERS, ASH TRAYS, CIGARETTE BOXES, AND HUMIDORS. CHASE BRASS & COPPER CO. INCORPORATED, Waterbury, Conn.
Filed April 30, 1941. Serial No. 443,112. PUBLISHED FEBRUARY 17, 1942. Class 8.

394,728. LIGHTING REFLECTORS FOR FLUORESCENT LAMPS. GARDEN CITY PLATING & MFG. CO., INC., Chicago, Ill.
Filed May 3, 1941. Serial No. 443,228. PUBLISHED FEBRUARY 17, 1942. Class 34.

394,729. CONDIMENT SAUCE PREPARATION FOR FLAVORING ROASTS, CHOPS, FISH, MEAT LOAF, SALADS, AND GAME FOODS. ROSSER J. NEWMAN, doing business as the Del-Mar Company, Dallas, Tex.
Filed May 23, 1941. Serial No. 443,852. PUBLISHED FEBRUARY 17, 1942. Class 46.

394,730. ABRASIVE WHEELS. CASCO PRODUCTS CORPORATION, Bridgeport, Conn.
Filed May 27, 1941. Serial No. 443,972. PUBLISHED FEBRUARY 17, 1942. Class 4.

394,731. VITAMIN AND MINERAL SUPPLEMENT TO HUMAN AND ANIMAL FOOD MADE BY DEHYDRATING CEREAL GRASSES, SUCH AS WHEAT, OATS, RYE, AND BARLEY. CEROPHYL LABORATORIES, INC., Kansas City, Mo.
Filed June 9, 1941. Serial No. 444,326. PUBLISHED FEBRUARY 17, 1942. Class 46.

394,732. FURNITURE SLIP COVERS. THE COMFY MANUFACTURING COMPANY, Baltimore, Md.
Filed June 18, 1941. Serial No. 444,634. PUBLISHED FEBRUARY 17, 1942. Class 32.

394,733. FURNITURE SLIP COVERS. THE COMFY MANUFACTURING COMPANY, Baltimore, Md.
Filed June 18, 1941. Serial No. 444,635. PUBLISHED FEBRUARY 17, 1942. Class 32.

394,734. STORE FRONT CONSTRUCTIONS INCLUDING MOLDINGS, FRAMES, AND SUPPORTING ELEMENTS EMPLOYED IN THE MOUNTING OF PANELS, DOORS, WINDOWS, AND THE LIKE IN STORE FRONT INSTALLATIONS. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa.
Filed June 18, 1941. Serial No. 444,657. PUBLISHED JANUARY 27, 1942. Class 12.

394,735. LADIES' GARMENTS MADE OF FUR—NAMELY, COATS, JACKETS, CAPES, AND SCARFS; AND LADIES' GARMENTS OF CLOTH TRIMMED WITH FUR—NAMELY, COATS, JACKETS, CAPES, AND SUITS. FROMM BROS., INC., Hamburg, Wis.
Filed June 26, 1941. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 444,867. PUBLISHED FEBRUARY 17, 1942. Class 39.

394,736. TWO-PRONGED HAT PIN FOR ATTACHING TO LINING HAT BANDS. JOSEPH H. BROWN, New York, N. Y.
Filed June 28, 1941. Serial No. 444,926. PUBLISHED FEBRUARY 17, 1942. Class 40.

394,737. COTTON AWNING FABRICS AND CLOTHS. THE FALLS COMPANY, Norwich, Conn.
Filed July 3, 1941. Serial No. 445,046. PUBLISHED JANUARY 27, 1942. Class 42.

394,738. DINING ROOM, LIVING ROOM, AND BED ROOM FURNITURE IN ALL PERIOD STYLES. FRANK J. POTTHAST, Baltimore, Md.
Filed July 5, 1941. Serial No. 445,102. PUBLISHED FEBRUARY 17, 1942. Class 32.

394,739. AIR FLOW CONTROL LOUVER UNITS FOR AIR CONDITIONING SYSTEMS. BARBER-COLMAN COMPANY, Rockford, Ill.
Filed July 14, 1941. Serial No. 445,314. PUBLISHED FEBRUARY 17, 1942. Class 34.

394,740. NETS USED IN THE GAMES OF TENNIS, BADMINTON, VOLLEY BALL, WATER POLO, SOCCER, SKEET, ETC. THE LINEN THREAD CO., INC., New York, N. Y.
Filed July 26, 1941. Serial No. 445,660. PUBLISHED FEBRUARY 17, 1942. Class 22.

394,741. MEN'S AND BOYS' UNDERWEAR. COOPER'S, INCORPORATED, Kenosha, Wis.
Filed August 1, 1941. Serial No. 445,840. PUBLISHED FEBRUARY 3, 1942. Class 39.

394,742. CERAMIC TABLE WARE. JUSTIN THARAUD, INC., New York, N. Y.
Filed August 5, 1941. Serial No. 446,007. PUBLISHED FEBRUARY 17, 1942. Class 30.

394,743. LIQUID METERS. S. F. BOWSER & COMPANY, INCORPORATED, Fort Wayne, Ind.
Filed August 7, 1941. Serial No. 446,041. PUBLISHED FEBRUARY 17, 1942. Class 26.

394,744. RED CEDAR SHINGLES. CONSOLIDATED RED CEDAR SHINGLE ASSOCIATION OF BRITISH COLUMBIA, Vancouver, British Columbia, Canada.
Filed August 9, 1941. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 446,099. PUBLISHED JANUARY 27, 1942. Class 12.

394,745. COFFEE. GEO. W. CASWELL CO., San Francisco, Calif.
Filed August 11, 1941. Serial No. 446,125. PUBLISHED FEBRUARY 17, 1942. Class 46.

394,746. BOOTS AND SHOES MADE OF LEATHER. NORVIC SHOE COMPANY, LIMITED, Norwich, England.
Filed August 15, 1941. Serial No. 446,277. PUBLISHED FEBRUARY 17, 1942. Class 39.

394,747. RECEPTACLES IN THE NATURE OF COMBINATION YARN HOLDERS AND DISPENSERS. MODERN SPECIALTIES, INC., Atlanta, Ga.
Filed August 19, 1941. Serial No. 446,368. PUBLISHED FEBRUARY 17, 1942. Class 2.

394,748. INSULATING BRICK, ASBESTOS SIDING, AND INSULATING BOARD OF WOOD, PAPER, OR CANE MATERIAL. GEORGE W. BROMLEY, doing business as Bromley Siding Company, Columbus, Ohio.
Filed August 28, 1941. Serial No. 446,612. PUBLISHED JANUARY 20, 1942. Class 12.

394,749. MEN'S UNION SUITS, PANTS, ATHLETIC SHIRTS, WOMEN'S UNION SUITS, VESTS, PANTIES, BLOOMERS, SHORTS, INFANTS' PANTIES, AND SHORTS. THE CAMPE CORPORATION, New York, N. Y.
Filed September 2, 1941. Serial No. 446,731. PUBLISHED FEBRUARY 3, 1942. Class 39.

394,750. DECORATIVE WINDOW CURTAINS. ABRAHAM & STRAUS, INC., Brooklyn, N. Y.
Filed September 8, 1941. Serial No. 446,851. PUBLISHED JANUARY 27, 1942. Class 42.

394,751. FRESH CITRUS FRUITS—NAMELY, ORANGES, GRAPEFRUIT, AND TANGERINES. NEVINS FRUIT CO., INC., New York, N. Y.
Filed September 8, 1941. Serial No. 446,887. PUBLISHED FEBRUARY 17, 1942. Class 46.

394,752. FINELY DIVIDED MATERIAL FOR INCORPORATION IN HYDRAULIC CEMENT MIXES TO IMPROVE THE PROPERTIES THEREOF, PARTICULARLY TO REDUCE SHRINKAGE AND PROMOTE STRENGTH AND WATERTIGHTNESS. LOUIS S. WEETS MFG. CO., Cleveland, Ohio.
Filed September 9, 1941. Serial No. 446,934. PUBLISHED JANUARY 27, 1942. Class 12.

394,753. RAYON FABRIC IN THE PIECE. THOMSON COMPANY, Thomson, Ga.
Filed September 12, 1941. Serial No. 447,007. PUBLISHED NOVEMBER 4, 1941. Class 42.

394,754. WIND PROPELLED ORNAMENTS USED ON AUTOMOBILES, TRUCKS, MOTOR CYCLES, MOTOR BOATS, AND BICYCLES. WILLIAM B. VANDEGRIFT, Seattle, Wash.
Filed September 13, 1941. Serial No. 447,036. PUBLISHED FEBRUARY 17, 1942. Class 19.

394,755. RECEPTACLES—NAMELY, BAGS MADE FROM WATERPROOF PAPER AND HOLDERS OR RACKS THEREFOR. DAVID E. SANFORD, doing business as Disposalator Mfg. Co., Los Angeles, Calif.
Filed September 19, 1941. Serial No. 447,193. PUBLISHED FEBRUARY 17, 1942. Class 2.

394,756. PIECE GOODS MADE OF SILK AND SYNTHETIC YARN TO BE USED IN CRAVATS, HAT TRIMMINGS, DRESSES, SHIRTS, NEGLIGEES, UPHOLSTERY, DRAPERIES, AND BEDSPREADS. CHENEY BROTHERS, Manchester, Conn., and New York, N. Y.
Filed September 22, 1941. Serial No. 447,226. PUBLISHED JANUARY 27, 1942. Class 42.

394,757. SCIENTIFIC LABORATORY COMBUSTION FURNACES, CABINETS, VARIOUS GLASS AND PYREX PARTS FOR LABORATORY USE, ETC. LABORATORY EQUIPMENT CORPORATION, Benton Harbor, Mich.
Filed October 1, 1941. Serial No. 447,463. PUBLISHED FEBRUARY 17, 1942. Class 26.

394,758. SPUN RAYON PIECE GOODS. CANTOR-GREENSPAN CO., INC., New York, N. Y.
Filed October 6, 1941. Serial No. 447,555. PUBLISHED JANUARY 27, 1942. Class 42.

394,759. MEN'S HATS. BYER-ROLNICK CO., Garland, Tex.
Filed October 14, 1941. Serial No. 447,781. PUBLISHED FEBRUARY 17, 1942. Class 39.

394,760. CLEANING MATERIAL FOR USE IN CLEANING AND POLISHING MARBLE AND MARBLE PRODUCTS, COMPOSED OF A CHEMICAL COMPOUND. RALPH BARKER LESTER, doing business as Barker Chemical Company, New York, N. Y.
Filed October 17, 1941. Serial No. 447,883. PUBLISHED FEBRUARY 17, 1942. Class 4.

394,761. SPORTING GOODS—NAMELY, FOOTBALLS, BASKETBALLS, VOLLEY BALLS, SOCCER BALLS, PLAY BALLS, MEDICINE BALLS, BASEBALL GLOVES, BASEBALL BATS, STRIKING BAGS, STRIKING BAG PLATFORMS, AND BOXING GLOVES. SPARTAN SPORTING GOODS COMPANY, Chicago, Ill.
Filed October 20, 1941. Serial No. 447,960. PUBLISHED FEBRUARY 17, 1942. Class 22.

394,762. TABLECLOTHS, NAPKINS, BEDSPREADS, TOWELS, DRAPERIES FOR WINDOWS, DOILY SETS, AND PIECE GOODS MADE OF COTTON, SILK, RAYON, AND MIXTURES OF SAME. CALIFORNIA PIECE DYE WORKS, Los Angeles, Calif.
Filed October 21, 1941. Serial No. 447,972. PUBLISHED JANUARY 27, 1942. Class 42.

394,763. COTTON, HEMP, ASBESTOS, FLAX, OR METALLIC FOIL MACHINERY PACKING. JAMES WALKER & CO., LIMITED, Woking, England.
Filed October 22, 1941. Serial No. 448,022. PUBLISHED FEBRUARY 17, 1942. Class 35.

394,764. ELECTRIC HEATING PADS. CASCO PRODUCTS CORPORATION, Bridgeport, Conn.
Filed October 23, 1941. Serial No. 448,034. PUBLISHED FEBRUARY 17, 1942. Class 44.

394,765. GROUPING OF EMPTY RECEPTACLES TO RECEIVE AND DISPLAY MERCHANDISE. INTERNATIONAL LATEX CORPORATION, New York, N. Y.
Filed October 24, 1941. Serial No. 448,081. PUBLISHED FEBRUARY 17, 1942. Class 2.

394,766. DETERGENT LIQUID WHICH IS ADDED TO THE BATH TO PERFUME THE WATER AND CREATE BUBBLES THEREIN, A BATH MITT CONSISTING OF A SOAP-FILLED CLOTH PAD WITH A HAND STRAP, AND TOILET SOAP. THE C. S. WELCH COMPANY, New York, N. Y.
Filed October 25, 1941. Serial No. 448,121. PUBLISHED FEBRUARY 17, 1942. Class 4.

394,767. WOOL BATTING OR WOOL BATTS. LOCKPORT COTTON BATTING CO., Lockport, N. Y.
Filed October 27, 1941. Serial No. 448,152. PUBLISHED FEBRUARY 17, 1942. Class 1.

394,768. WOOL BATTING OR WOOL BATTS. LOCKPORT COTTON BATTING CO., Lockport, N. Y.
Filed October 27, 1941. Serial No. 448,155. PUBLISHED FEBRUARY 17, 1942. Class 1.

394,769. LEDGER AND INDEX PAPERS. PARSONS PAPER COMPANY, Holyoke, Mass.
Filed October 27, 1941. Serial No. 448,166. PUBLISHED FEBRUARY 17, 1942. Class 37.

394,770. CURTAIN STRETCHERS. QUAKER STRETCHER COMPANY, Kenosha, Wis.
Filed October 27, 1941. Serial No. 448,170. PUBLISHED FEBRUARY 17, 1942. Class 50.

394,771. EAR MUFFS. AUGUST BENTKAMP, New York, N. Y.
Filed October 28, 1941. Serial No. 448,181. PUBLISHED FEBRUARY 17, 1942. Class 39.

394,772. PROPHYLACTIC RUBBER ARTICLES TO PREVENT THE SPREAD OF CONTAGIOUS DISEASES. GOTHAM SALES COMPANY INC., New York, N. Y.
Filed October 28, 1941. Serial No. 448,192. PUBLISHED FEBRUARY 17, 1942. Class 44.

394,773. FESTOONS AND VALANCES USED WITH DRAPERIES. ALBERT M. KOFKA, New York, N. Y.
Filed October 28, 1941. Serial No. 448,194. PUBLISHED JANUARY 27, 1942. Class 42.

394,774. MINERAL WOOL INSULATION. PLASTERGON WALL BOARD COMPANY, Buffalo, N. Y.
Filed October 29, 1941. Serial No. 448,229. PUBLISHED JANUARY 27, 1942. Class 12.

394,775. QUICK DRYING ENAMEL. OLD COLONY PAINT & CHEMICAL CO., Los Angeles, Calif.
Filed October 31, 1941. Serial No. 448,299. PUBLISHED FEBRUARY 17, 1942. Class 16.

394,776. MEATS AND MEAT PRODUCTS—VIZ., COOKED CANNED HAMS. ALBANY PACKING COMPANY, INC., Colonie, N. Y.
Filed November 3, 1941. Serial No. 448,353. PUBLISHED FEBRUARY 17, 1942. Class 46.

394,777. WOVEN PIECE GOODS—NAMELY, COTTON, SILK, WOOL, AND MIXTURES THEREOF. CROWN WEAVING MILLS, INC., Los Angeles, Calif.
Filed November 3, 1941. Serial No. 448,360. PUBLISHED JANUARY 27, 1942. Class 42.

394,778. WIRE COATED WITH CELLULOSIC MATERIAL AND USED FOR TYING PACKAGES AND FOR OTHER PURPOSES. FREYDBERG BROS., INC., Stamford, Conn., and New York, N. Y.
Filed November 4, 1941. Serial No. 448,381. PUBLISHED FEBRUARY 17, 1942. Class 7.

394,779. CANNED SOUP AND A PREPARATION OF MILK AND VEGETABLE JUICES FOR MAKING SOUP. DANIEL ISAAC YOHANAN, Denair, Calif.
Filed November 4, 1941. Serial No. 448,403. PUBLISHED FEBRUARY 17, 1942. Class 46.

394,780. LEATHER. STRONG & FISHER LIMITED, Rushden, England.
Filed November 6, 1941. Serial No. 448,442. PUBLISHED FEBRUARY 17, 1942. Class 1.

394,781. NECKTIES, CRAVATS, AND HANDKERCHIEFS, AND COMBINATION SETS OF SAID ITEMS. MAX DOMBROWSKY, New York, N. Y.
Filed November 7, 1941. Serial No. 448,449. PUBLISHED FEBRUARY 17, 1942. Class 39.

394,782. PACKAGES CONTAINING CUT-OUT AND PREPARED MATERIALS FOR MAKING LOUNGING SLIPPERS, SPECIFICALLY, QUILTED SOLES AND UPPERS, TAPE, AND ELASTIC. CREED & STEWART, LTD., Aurora, Ill.
Filed November 8, 1941. Serial No. 448,469. PUBLISHED FEBRUARY 17, 1942. Class 40.

394,783. PREPARATION FOR CLEANING THE TYPE OF TYPEWRITERS AND GENERAL OFFICE MACHINES. CHARLES EDERER, New York, N. Y.
Filed November 8, 1941. Serial No. 448,471. PUBLISHED FEBRUARY 17, 1942. Class 4.

394,784. LUBRICATING GREASES. SOCONY-VACUUM OIL COMPANY, INCORPORATED, New York, N. Y.
Filed November 8, 1941. Serial No. 448,479. PUBLISHED JANUARY 27, 1942. Class 15.

394,785. INSULATING OIL FOR ELECTRIC CABLES. SOCONY-VACUUM OIL COMPANY, INCORPORATED, New York, N. Y.
Filed November 8, 1941. Serial No. 448,481. PUBLISHED JANUARY 27, 1942. Class 15.

394,786. LUBRICATING GREASES. SOCONY-VACUUM OIL COMPANY, INCORPORATED, New York, N. Y.
Filed November 8, 1941. Serial No. 448,482. PUBLISHED JANUARY 27, 1942. Class 15.

394,787. FLAT RIBBON-LIKE TEXTILE TAPE USED AS CORDAGE AND FOR TYING PURPOSES. NATIONAL TINSEL MANUFACTURING COMPANY, Manitowoc, Wis.
Filed November 10, 1941. Serial No. 448,516. PUBLISHED FEBRUARY 17, 1942. Class 7.

394,788. MILLING MACHINES. KEARNEY & TRECKER CORPORATION, West Allis, Wis.
Filed November 12, 1941. Serial No. 448,563. Class 23.

394,789. PASTRY CANVAS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 13, 1941. Serial No. 448,609. PUBLISHED JANUARY 27, 1942. Class 42.

394,790. BELTING FOR POWER TRANSMISSION, ELEVATING, AND CONVEYING PURPOSES, AIR BRAKE HOSE, ETC. QUAKER RUBBER CORPORATION, Philadelphia, Pa.
Filed November 14, 1941. Serial No. 448,651. PUBLISHED FEBRUARY 17, 1942. Class 35.

394,791. BELTING FOR POWER TRANSMISSION, ELEVATING, AND CONVEYING PURPOSES, MACHINERY PACKING, ETC. QUAKER RUBBER CORPORATION, Philadelphia, Pa.
Filed November 14, 1941. Serial No. 448,652. PUBLISHED FEBRUARY 17, 1942. Class 35.

394,792. REFRACTORY MATERIAL AND FOR CHEMICAL PUTTY. CHARLOTTE CHEMICAL LABORATORIES, INC., Charlotte, N. C.
Filed November 15, 1941. Serial No. 448,671. PUBLISHED JANUARY 27, 1942. Class 12.

394,793. FRESH VEGETABLES—NAMELY, BROCCOLI, CAULIFLOWER, CHICORY, CARROTS, ANISE, CABBAGE, CELERY, RHUBARB, AND BELL-PEPPERS. LA BREA SECURITIES CO., doing business as Rosemary Packing Company, Los Angeles and Santa Maria, Calif.
Filed November 17, 1941. Serial No. 448,698. PUBLISHED FEBRUARY 17, 1942. Class 46.

394,794. PYROXYLIN GLAZING PUTTY FOR USE PARTICULARLY ON AUTOMOBILES. RINSHED-MASON COMPANY, Detroit, Mich.
Filed November 17, 1941. Serial No. 448,707. PUBLISHED FEBRUARY 17, 1942. Class 16.

394,795. HAIR DRESSING (PERMANENT WAVE) KITS, SAID KITS EACH BEING COMPRISED IN A PACKAGED SUPPLY OF INSTRUMENTALITIES, EITHER INDIVIDUAL OR IN COMBINATION, REQUISITE TO COIFFURE FORMATIONS OF HUMAN HAIR BY PERMANENT CURLING AND WAVING. HERMANN STEIN, doing business as The Ondolea Company, New York, N. Y.
Filed November 17, 1941. Serial No. 448,711. PUBLISHED FEBRUARY 17, 1942. Class 44.

394,796. NON-DRYING PAINT USED AS A WATERPROOFING AND PROTECTIVE COATING FOR CONCRETE, STEEL, WOOD, PLASTER, MASONRY, AND METAL SURFACES IN GENERAL. INERTOL COMPANY, INC., Newark, N. J.
Filed November 18, 1941. Serial No. 448,731. PUBLISHED FEBRUARY 17, 1942. Class 16.

394,797. PROCESSED COAL FUEL. MIDWEST-RADIANT CORPORATION, St. Louis, Mo.
Filed November 19, 1941. Serial No. 448,765. PUBLISHED FEBRUARY 17, 1942. Class 1.

394,798. CHEESE. ROETHLISBERGER & CO., INC., New York, N. Y.
Filed November 21, 1941. Serial No. 448,803. PUBLISHED FEBRUARY 17, 1942. Class 46.

394,799. GLASSWARE—NAMELY, PERFUME BOTTLES, POWDER JARS, DRESSER SETS AND DRESSER TRAYS, FOR DECORATIVE, FANCY, AND TOILETTE USES, CANDY AND BON BON BOXES AND DISHES. L. BATLIN & SON, INC., New York, N. Y.
Filed November 24, 1941. Serial No. 448,847. PUBLISHED FEBRUARY 17, 1942. Class 33.

394,800. WOMEN'S AND MISSES' COATS AND SUITS, AND LADIES' EQUESTRIAN CLOTHES, THAT IS, JODHPURS, BREECHES, SCARFS, BLOUSES, SHOES, BOOTS, GLOVES, AND JACKETS. KESSLER, SCHWARTZ & CO., INC., New York, N. Y.
Filed November 24, 1941. Serial No. 448,866. PUBLISHED FEBRUARY 17, 1942. Class 39.

394,801. GARTERS, SUSPENDERS, AND BELTS FOR OUTER WEAR. A. STEIN & COMPANY, Chicago, Ill.
Filed November 24, 1941. Serial No. 448,880. PUBLISHED FEBRUARY 17, 1942. Class 39.

394,802. LUBRICATING OILS. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa.
Filed November 25, 1941. Serial No. 448,889. PUBLISHED FEBRUARY 17, 1942. Class 15.

394,803. LUBRICATING OILS AND LUBRICATING GREASES. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa.
Filed November 25, 1941. Serial No. 448,891. PUBLISHED FEBRUARY 17, 1942. Class 15.

394,804. LUBRICATING OILS. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa.
Filed November 25, 1941. Serial No. 448,892. PUBLISHED FEBRUARY 17, 1942. Class 15.

394,805. LUBRICATING OILS. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa.
Filed November 25, 1941. Serial No. 448,893. PUBLISHED FEBRUARY 17, 1942. Class 15.

394,806. LUBRICATING OILS. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa.
Filed November 25, 1941. Serial No. 448,895. PUBLISHED FEBRUARY 17, 1942. Class 15.

394,807. GASOLINE. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa.
Filed November 25, 1941. Serial No. 448,897. PUBLISHED FEBRUARY 17, 1942. Class 15.

394,808. DIVIDING STRIPS OR OTHER FORMED PIECES, WHETHER OF METAL OR OTHER MATERIAL, SUCH AS ARE USED IN OR ON TERRAZZO OR COMPOSITION OR CEMENT FLOORS OR WALLS. MANHATTAN TERRAZZO BRASS STRIP CO., INC., New York, N. Y.
Filed November 25, 1941. Serial No. 448,915. PUBLISHED FEBRUARY 3, 1942. Class 12.

394,809. SPRING CONTROLLED VALVES—NAMELY, PRESSURE REGULATORS, PRESSURE REDUCING VALVES, AND PRESSURE RELIEF VALVES. FISHER GOVERNOR COMPANY, Marshalltown, Iowa.
Filed November 26, 1941. Serial No. 448,938. PUBLISHED FEBRUARY 17, 1942. Class 13.

394,810. HATS FOR LADIES, MISSES, AND GIRLS. A. HARRIS & CO., Dallas, Tex.
Filed November 26, 1941. Serial No. 448,941. PUBLISHED FEBRUARY 17, 1942. Class 39.

394,811. SAPONACEOUS PASTE COMMONLY KNOWN AS SHAVING CREAM. LAMBERT PHARMACAL COMPANY, Wilmington, Del.
Filed November 27, 1941. Serial No. 448,975. PUBLISHED FEBRUARY 17, 1942. Class 4.

394,812. LADIES' AND MISSES' KNITTED SPORT SWEATERS AND TWO PIECE KNITTED DRESSES. SELECT SPORTSWEAR, INC., New York, N. Y.
Filed November 27, 1941. Serial No. 448,988. PUBLISHED FEBRUARY 3, 1942. Class 39.

394,813. SILK, RAYON, AND COTTON PIECE GOODS AND COMBINATIONS THEREOF. WILLIAM SKINNER & SONS, Holyoke, Mass., and New York, N. Y.
Filed November 28, 1941. Serial No. 449,023. PUBLISHED FEBRUARY 3, 1942. Class 42.

394,814. COTTON TEXTILE PRINTS IN THE PIECE. M. STANLEY BROWN, New York, N. Y.
Filed November 29, 1941. Serial No. 449,035. PUBLISHED FEBRUARY 3, 1942. Class 42.

394,815. COTTON, RAYON, ACETATE, AND/OR SILK PIECE GOODS, AND COMBINATIONS THEREOF. COHN-HALL-MARX CO., New York, N. Y.
Filed November 29, 1941. Serial No. 449,038. PUBLISHED JANUARY 27, 1942. Class 42.

394,816. COTTON, RAYON, ACETATE, AND/OR SILK PIECE GOODS, AND COMBINATIONS THEREOF. COHN-HALL-MARX CO., New York, N. Y.
Filed November 29, 1941. Serial No. 449,039. PUBLISHED FEBRUARY 3, 1942. Class 42.

394,817. SOAPS. PARFUMS SCHIAPARELLI, INC., New York, N. Y.
Filed November 29, 1941. Serial No. 449,059. PUBLISHED FEBRUARY 17, 1942. Class 4.

394,818. FRESH FROZEN SHRIMP. MARINE PRODUCTS COMPANY, San Diego, Calif.
Filed December 1, 1941. Serial No. 449,079. PUBLISHED FEBRUARY 17, 1942. Class 46.

394,819. AUTOMOBILE RADIO LOCKS, CABINET LOCKS, AND WINDOW LOCKS. PHILCO CORPORATION, Philadelphia, Pa.
Filed December 3, 1941. Serial No. 449,153. PUBLISHED FEBRUARY 17, 1942. Class 25.

394,820. LADIES' AND CHILDREN'S DRESSES. ARONOFF, RICHLING & FEIN, New York, N. Y.
Filed December 5, 1941. Serial No. 449,190. PUBLISHED FEBRUARY 3, 1942. Class 39.

394,821. CLOCKS. WILLIAM L. GILBERT CLOCK CORPORATION, Winsted, Conn.
Filed December 6, 1941. Serial No. 449,230. PUBLISHED FEBRUARY 17, 1942. Class 27.

394,822. COAL. STAPLES COAL COMPANY, doing business as City Fuel Company, Boston, Mass.
Filed December 6, 1941. Serial No. 449,242. PUBLISHED FEBRUARY 17, 1942. Class 1.

394,823. WATERPROOFING, PROTECTIVE, AND CAMOUFLAGE PAINT FOR CONCRETE, STEEL, WOOD, PLASTER, MASONRY, AND SURFACES IN GENERAL. AMERICAN BITUMULS COMPANY, Wilmington, Del., and San Francisco, Calif.
Filed December 8, 1941. Serial No. 449,246. PUBLISHED FEBRUARY 17, 1942. Class 16.

394,824. FLUID CONDUCTING HOSE COMPOSED OF FABRIC AND RUBBER. THE B. F. GOODRICH COMPANY, New York, N. Y., and Akron, Ohio.
Filed December 8, 1941. Serial No. 449,263. PUBLISHED FEBRUARY 17, 1942. Class 35.

394,825. ICE CREAM CONES. ERNEST A. HAMWI, doing business as Western Cone Company, St. Louis, Mo.
Filed December 8, 1941. Serial No. 449,265. PUBLISHED FEBRUARY 17, 1942. Class 46.

394,826. CHEWING AND SMOKING TOBACCO. JOHN C. HERMAN & Co., New Cumberland, Pa.
Filed December 8, 1941. Serial No. 449,275. PUBLISHED FEBRUARY 17, 1942. Class 17.

394,827. CHEWING AND SMOKING TOBACCO. JOHN C. HERMAN & Co., New Cumberland, Pa.
Filed December 8, 1941. Serial No. 449,276. PUBLISHED FEBRUARY 17, 1942. Class 17.

394,828. CHEWING AND SMOKING TOBACCO. JOHN C. HERMAN & Co., New Cumberland, Pa.
Filed December 8, 1941. Serial No. 449,277. PUBLISHED FEBRUARY 17, 1942. Class 17.

394,829. DRESS AND SPORT SHIRTS, JACKETS, AND COATS FOR MEN AND BOYS. MARLBORO SHIRT Co., INC., Baltimore, Md.
Filed December 8, 1941. Serial No. 449,286. PUBLISHED FEBRUARY 3, 1942. Class 39.

394,830. RUBBERIZED FABRICS AND OTHER MOISTURE PROOFED AND WATER-REPELLENT FABRICS. ALDAN RUBBER COMPANY, Philadelphia, Pa.
Filed December 9, 1941. Serial No. 449,309. PUBLISHED FEBRUARY 17, 1942. Class 50.

394,831. TOOL STEEL. THE CARPENTER STEEL COMPANY, Reading, Pa.
Filed December 9, 1941. Serial No. 449,315. PUBLISHED FEBRUARY 17, 1942. Class 14.

394,832. FLATWARE FOR TABLE USE, HOLLOWWARE FOR TABLE AND DECORATIVE USES, ETC. GEORG JENSEN INC., New York, N. Y.
Filed December 9, 1941. Serial No. 449,323. PUBLISHED FEBRUARY 17, 1942. Class 28.

394,833. HEELS, SOLES, AND HALF SOLES OF RUBBER. THE B. F. GOODRICH COMPANY, New York, N. Y., and Akron, Ohio.
Filed December 10, 1941. Serial No. 449,343. PUBLISHED FEBRUARY 17, 1942. Class 39.

394,834. CALCULATING MACHINES AND BOOKKEEPING MACHINES. AKTIEBOLAGET ADDO, Malmo, Sweden.
Filed December 10, 1941. Serial No. 449,364. PUBLISHED FEBRUARY 17, 1942. Class 26.

394,835. CORN DISTILLERS DRIED SOLUBLES, AN INGREDIENT FOR POULTRY AND LIVESTOCK FEED. THE DEWEY BROTHERS COMPANY, Blanchester, Ohio.
Filed December 11, 1941. Serial No. 449,367. PUBLISHED FEBRUARY 17, 1942. Class 46.

394,836. HANDBAGS. LINCOLN LEATHER GOODS CO. INC., New York, N. Y.
Filed December 11, 1941. Serial No. 449,380. PUBLISHED FEBRUARY 17, 1942. Class 3.

394,837. MIRRORS. PEACOCK LABORATORIES, INC., Philadelphia, Pa.
Filed December 11, 1941. Serial No. 449,394. PUBLISHED FEBRUARY 17, 1942. Class 32.

394,838. TRAVELING BAGS. ELIZABETH ARDEN SALES CORPORATION, New York, N. Y.
Filed December 12, 1941. Serial No. 449,405. PUBLISHED FEBRUARY 17, 1942. Class 3.

394,839. BEARING METAL ALLOYS, BABBITT METALS, AND WHITE METAL ALLOYS, USED AS ANTI-FRICTIONAL MEDIA. JACKSON-WHEELER METALS SERVICE, INC., Brooklyn, N. Y.
Filed December 12, 1941. Serial No. 449,418. PUBLISHED FEBRUARY 17, 1942. Class 14.

394,840. DOLLS. SAYCO DOLL CORPORATION, New York, N. Y.
Filed December 12, 1941. Serial No. 449,436. PUBLISHED FEBRUARY 17, 1942. Class 22.

394,841. APPARATUS FOR TESTING, EXERCISING AND TRAINING THE EYES. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y.
Filed December 17, 1941. Serial No. 449,539. PUBLISHED FEBRUARY 17, 1942. Class 26.

394,842. MATERIALS AND KITS OF MATERIALS FOR FORMING INTRA ORAL DENTAL IMPRESSIONS. H. D. JUSTI & SON, INC., Philadelphia, Pa.
Filed December 19, 1941. Serial No. 449,613. PUBLISHED FEBRUARY 17, 1942. Class 44.

394,843. LUMINESCENT PAINTS AND VARNISHES. RHODE ISLAND LABORATORIES, INCORPORATED, West Warwick, R. I.
Filed December 19, 1941. Serial No. 449,629. PUBLISHED FEBRUARY 17, 1942. Class 16.

394,844. FRESH CITRUS FRUITS. AZUSA CITRUS ASSOCIATION, Azusa, Calif.
Filed December 23, 1941. Serial No. 449,711. PUBLISHED FEBRUARY 17, 1942. Class 46.

394,845. FRESH CITRUS FRUITS. AZUSA CITRUS ASSOCIATION, Azusa, Calif.
Filed December 23, 1941. Serial No. 449,712. PUBLISHED FEBRUARY 17, 1942. Class 46.

394,846. KNITTING BAGS. WOOL NOVELTY CO. INC., New York, N. Y.
Filed December 27, 1941. Serial No. 449,817. PUBLISHED FEBRUARY 17, 1942. Class 3.

394,847. CLOTHES LINE. THE KROGER GROCERY & BAKING COMPANY, Cincinnati, Ohio.
Filed December 30, 1941. Serial No. 449,861. PUBLISHED FEBRUARY 17, 1942. Class 7.

394,848. JAR RINGS. THE KROGER GROCERY & BAKING COMPANY, Cincinnati, Ohio.
Filed December 30, 1941. Serial No. 449,863. PUBLISHED FEBRUARY 17, 1942. Class 35.

394,849. LIQUID PASTE, MUCILAGE, POSTER PASTE, RUBBER CEMENT, AND BOOKBINDING TAPE. MILTON BRADLEY COMPANY, Springfield, Mass.
Filed December 31, 1941. Serial No. 449,886. PUBLISHED FEBRUARY 17, 1942. Class 5.

394,850. TOY COIN BANKS. DURABLE TOY & NOVELTY CORP., New York, N. Y.
Filed December 31, 1941. Serial No. 449,898. PUBLISHED FEBRUARY 17, 1942. Class 22.

394,851. COMPLETE VENETIAN BLIND ASSEMBLIES AND SLATS, HEAD RAILS, BOTTOM RAILS, AND TILT RAILS, THEREFOR. THE GUARANTEE SPECIALTY MANUFACTURING CO., Cleveland, Ohio.
Filed December 31, 1941. Serial No. 449,901. PUBLISHED FEBRUARY 17, 1942. Class 32.

394,852. VENETIAN BLIND CORDS. THE GUARANTEE SPECIALTY MANUFACTURING Co., Cleveland, Ohio.
Filed December 31, 1941. Serial No. 449,902. PUBLISHED FEBRUARY 17, 1942. Class 7.

394,853. GAME COMPRISING A BOARD AND MOVABLE PLAYING PIECES. E. CARROLL CHITTUM, doing business as E. C. Chittum Co., Baltimore, Md.
Filed January 6, 1942. Serial No. 450,009. PUBLISHED FEBRUARY 17, 1942. Class 22.

394,854. BRANDIES, RUMS, ALCOHOL, AND DENATURIZED ALCOHOL FOR MOTORS. COMPAÑIA LICORERA MATANZAS, S. A., San Cristobal y San Andres, Matanzas, Cuba. Filed January 27, 1942. Under General Inter-American Convention for Trade-Mark and Commercial Protection. Serial No. 1,328 (Inter-American Series). Class 49.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

394,855. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) V. VIVIANO & BROS. MACARONI MANUFACTURING Co. INC., St. Louis, Mo. Filed June 17, 1939. Serial No. 420,653.

BELMONT

FOR ALIMENTARY PASTES, PARTICULARLY MACARONI, ELBOW MACARONI, SPAGHETTI, HOLLOW SPAGHETTI ELBOW AND VERMICELLI.
Claims use since May 11, 1939.

394,856. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BOOTT MILLS, Lowell, Mass. Filed Feb. 26, 1941. Serial No. 441,013.

TWEEDWEAR

FOR PIECE GOODS—NAMELY, CORDUROY.
Claims use since Feb. 21, 1941.

394,857. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STANDARD BRANDS INCORPORATED, New York, N. Y. Filed Apr. 30, 1941. Serial No. 443,140.

Hi-B$_1$

FOR YEAST.
Claims use since Mar. 4, 1941.

394,858. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BASIC VEGETABLE PRODUCTS Co., Vacaville, Calif. Filed May 6, 1941. Serial No. 443,280.

"Mello-Toasted"

FOR ONION POWDER.
Claims use since Mar. 1, 1941.

394,859. (CLASS 2. RECEPTACLES.) AMERICAN TISSUE MILLS, Holyoke, Mass. Filed May 13, 1941. Serial No. 443,527.

Ever-Fresh

FOR PAPER AND "CELLOPHANE" BAGS FOR CONTAINING FOOD SUCH AS SANDWICHES, COOKIES, CAKES, CRACKERS, AND THE LIKE SOLD IN TRADE EMPTY.
Claims use since Apr. 2, 1940.

394,860. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARK WEISBERG, doing business as Bellefont Associates, Cranston, R. I. Filed July 22, 1941. Serial No. 445,566.

BELLEFONT Coffee

FOR LIQUID COFFEE AND COFFEE SYRUP
Claims use since Feb. 3, 1941.

394,861. (CLASS 12. CONSTRUCTION MATERIALS.) ALVIN W. BOHNE, doing business as Tapecoat Company, Evanston, Ill. Filed Sept. 2, 1941. Serial No. 446,726.

TAPECOAT

FOR COTTON FABRIC TAPE OF VARIOUS WIDTHS, SATURATED WITH A SUBSTANCE HAVING A BITUMINOUS BASE, SOLD BY WEIGHT, IN ROLLED UP FORM FOR COVERING AND INSULATING PIPES AND THE LIKE.
Claims use since May 1, 1940.

394,862. (CLASS 39. CLOTHING.) SAM GERSON, Philadelphia, Pa. Filed Nov. 5, 1941. Serial No. 448,411.

Home of Seven Famous Brands — Sam GERSON

FOR MEN'S SUITS, VESTS, PANTS, AND OVERCOATS.
Claims use since Sept. 1, 1938.

394,863. (CLASS 12. CONSTRUCTION MATERIALS.) COLOTYLE CORPORATION, Seattle, Wash. Filed Nov. 10, 1941. Serial No. 448,497.



FOR HIGH-HEAT BAKED ENAMEL COATED PRESDWOOD BOARD.
Claims use since Nov. 15, 1940.

394,864. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KEARNEY & TRECKER CORPORATION, West Allis, Wis. Filed Nov. 12, 1941. Serial No. 448,561.

KEARNEY & TRECKER

FOR MILLING MACHINES.
Claims use since 1898.

394,865. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KEARNEY & TRECKER CORPORATION, West Allis, Wis. Filed Nov. 12, 1941. Serial No. 448,562.

MILWAUKEE

FOR MILLING MACHINES.
Claims use since 1899.

394,866. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FRED S. BENNETT, INC., New York, N. Y. Filed Dec. 9, 1941. Serial No. 449,312.



FOR BLEACHED DUCKS, TWILLS, DRILLS, SHEETINGS, AND JEANS.
Claims use since January, 1926.

394,867. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. A. GITLIN & CO., New York, N. Y. Filed Dec. 9, 1941. Serial No. 449,319.

CORDON TWILL

FOR LINING FABRICS IN THE PIECE OF COTTON, RAYON, AND COMBINATIONS THEREOF, SOLD BY THE YARD.
Claims use since Sept. 3, 1940.

394,868. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHN MATOUK, INC., New York, N. Y. Filed Dec. 27, 1941. Serial No. 449,802.

Loomedart Modernart

FOR TEXTILE FABRICS IN THE PIECE, OF RAYON, LINEN, COTTON, AND COMBINATIONS THEREOF, BED SHEETS, PILLOW CASES, QUILT AND BLANKET COVERS, HAND TOWELS, DOILIES, BED SPREADS, BANQUET DINNER CLOTHS, AND LUNCHEON SETS.
Claims use since Apr. 26, 1938.

394,869. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANK O. MORSE, Englewood, Colo. Filed Jan. 15, 1942. Serial No. 450,241.



FOR DRY DOG FOOD.
Claims use since Jan. 1, 1930.

394,870. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) IDA JOLLES, doing business as J. Jolles Studios, New York, N. Y. Filed Jan. 20, 1942. Serial No. 450,336.

Jolles

FOR GROUND FABRIC IN THE PIECE FOR USE IN MAKING NEEDLEPOINT EMBROIDERY OR TAPESTRY.
Claims use since June, 1920.

394,871. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. H. GARY, doing business as J. H. Gary & Co., San Francisco, Calif. Filed Mar. 3, 1942. Serial No. 451,361.



FOR PREPARED FOODS—NAMELY, CANNED FRUITS, CANNED VEGETABLES, AND CANNED FRUIT COCKTAIL.
Claims use since October, 1934.

TRADE-MARK REGISTRATIONS RENEWED

21,318. **HUDOR.** MINERAL WATERS AND OTHER NON-ALCOHOLIC DRINKS. Registered June 21, 1892. SAMUEL C. ROGERS and JAMES S. PEARSON. Re-renewed June 21, 1942, to The Hudor Co., Buffalo, N. Y., a corporation of New York, assignee.

151,440. **B & C.** LAXATIVE ASPIRIN TABLETS FOR HEADACHES, COLDS, LA GRIPPE, RHEUMATISM AND SIMILAR AFFECTIONS. Registered February 7, 1922. BUTLER & COSGRAVE. Renewed February 7, 1942, to Kate Cosgrave and Margaret Duncan Filleman, San Angelo, Tex., a partnership, successor.

152,340. **HOMCO.** WHEAT FLOUR. Registered February 28, 1922. AMERICAN HOMINY COMPANY, Indianapolis, Ind. and Decatur, Ill. Renewed February 28, 1942, to Decatur Milling Company, Inc., Decatur, Ill., a corporation of Indiana, successor.

153,481. **LAWCO.** CERTAIN NAMED TINWARE, GALVANIZED WARE, AND SHEET-METAL PRODUCTS. Registered March 21, 1922. THE F. H. LAWSON COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed March 21, 1942.

153,709. **EAGLE.** VARNISHES. Registered March 28, 1922. EAGLE PAINT & VARNISH CO., Pittsburgh, Pa., a corporation of Pennsylvania. Renewed March 28, 1942.

154,036. **SILVERTOWN.** CERTAIN NAMED BELTS FOR DRIVING AUTOMOBILE FANS AND OTHER MACHINERY. Registered April 4, 1922. THE B. F. GOODRICH COMPANY, New York, N. Y., a corporation of New York. Renewed April 4, 1942.

154,044. **HECOWA.** THREADS AND YARNS OF COTTON, WOOL, LINEN, SILK, OR ARTIFICIAL SILK, OR SEVERAL OF THESE TEXTILE MATERIALS. Registered April 4, 1922. HEBERLEIN & CO. A. G., Wattwil, Switzerland, a corporation of Switzerland. Renewed April 4, 1942.

154,083. **NO-NIC-O-TINE.** CIGARS, CIGARETTES, SMOKING TOBACCOS, AND CHEWING TOBACCO. Registered April 4, 1922. LINCOLN AND ULMER. Renewed April 4, 1942, to Lincoln & Ulmer, Inc., New York, N. Y., a corporation of New York, successor.

154,601. **SLING.** CORSETS, BRASSIÈRES, CORSET COVERS, AND WAISTS. Registered April 18, 1922. KOPS BROS. Renewed April 18, 1942, to Kops Brothers, Inc., New York, N. Y., a corporation of New York, assignee.

154,687. **ESS-KAY.** CREAMERY BUTTER, PURE LARD, HAMS, BACONS, SHOULDERS, SAUSAGES, PORK ROLLS, DRIED BEEF, CHEESE, AND LARD COMPOUNDS MADE OF COTTONSEED OIL. Registered April 18, 1922. THE WM. SCHLUDERBERG-T. J. KURDLE CO., Baltimore, Md., a corporation of Maryland. Renewed April 18, 1942.

154,734. **JACK SPRAT.** CERTAIN NAMED FOODS. Registered April 18, 1922. WESTERN GROCER COMPANY, Marshalltown, Iowa, a corporation of Iowa. Renewed April 18, 1942.

154,866. "111". SMOKING AND CHEWING TOBACCO AND CIGARETTES. Registered May 16, 1922. THE AMERICAN TOBACCO COMPANY, New York, N. Y., a corporation of New Jersey. Renewed May 16, 1942.

155,106. **UNITED PAPER COMPANY.** FRUIT AND VEGETABLE WRAPPERS. Registered May 16, 1922. UNITED PAPER COMPANY, Atlanta, Ga. Renewed May 16, 1942, to United Paper Company, Tampa, Fla., a corporation of Delaware, assignee.

155,220. **MIMECON.** INK, PARTICULARLY INK ADAPTED FOR USE ON STENCIL DUPLICATORS. Registered May 23, 1922. A. B. DICK COMPANY. Renewed May 23, 1942, to A. B. Dick Company, Chicago, Ill., a corporation of Illinois, assignee.

155,487. **VISCOSINE.** VISCOSE. Registered May 30, 1922. MIDWEST STEEL & SUPPLY COMPANY, INC., New York, N. Y. Renewed May 30, 1942, to American Air Filter Company, Inc., Louisville, Ky., a corporation of Delaware, assignee.

155,657. **ORCHARD KING.** ORANGES IN THEIR NATURAL STATE. Registered June 6, 1922. COVINA ORANGE GROWERS ASSOCIATION. Renewed June 6, 1942, to Covina Orange Growers Association, Covina, Calif., a corporation of California, assignee.

155,671. **"FAITH".** GRASS AND FIELD SEEDS. Registered June 6, 1922. THE DOUGHTEN SEED COMPANY, Jersey City, N. J., a corporation of New Jersey. Renewed June 6, 1942.

155,672. **"FAME".** GRASS AND FIELD SEEDS. Registered June 6, 1922. THE DOUGHTEN SEED COMPANY, Jersey City, N. J., a corporation of New Jersey. Renewed June 6, 1942.

155,717. **DAY & NIGHT.** CERTAIN ARTICLES OF CLOTHING. Registered June 6, 1922. WILLIAM HOLLINS & COMPANY, LIMITED, London and Mansfield, England. Renewed June 6, 1942, to William Hollins & Company, Limited, Nottingham, England, a corporation of the United Kingdom of Great Britain and Northern Ireland.

156,001. **LITTLE FALLS FELT SHOE COMPANY.** FELT SHOES AND SLIPPERS. Registered June 13, 1922. LITTLE FALLS FELT SHOE COMPANY, Little Falls, N. Y., a corporation of New York. Renewed June 13, 1942.

156,032. **OLD MISSION PORTLAND CEMENT CO.** PORTLAND CEMENT. Registered June 13, 1922. OLD MISSION PORTLAND CEMENT COMPANY, San Francisco and San Juan Bautista, Calif. Renewed June 13, 1942, to Pacific Portland Cement Company, San Francisco, Calif., a corporation of California, assignee.

156,067. **RAZ-MAH.** A MEDICINE FOR ASTHMA. Registered June 13, 1922. TEMPLETON'S LIMITED, Toronto, Ontario, Canada, a corporation of the Province of Ontario, Canada. Renewed June 13, 1942.

156,261. **REGULADOR GESTEIRA.** A GENERAL UTERUS TONIC. Registered June 20, 1922. DR. JERONYMO GESTEIRA, Para, Brazil. Renewed June 20, 1942, to Dr. J. Gesteira, Inc., Detroit Mich. a corporation of Delaware, assignee.

156,380. **TOD-CO.** CERTAIN NAMED MEDICINAL AND PHARMACEUTICAL PREPARATIONS. Registered June 20, 1922. THE OWL DRUG COMPANY. Renewed June 20, 1942, to The Owl Drug Co., San Francisco, Calif., a corporation of Nevada, assignee.

156,748. **LUXURY.** TOILET PAPER. Registered July 11, 1922. LINTON & SCOTT, New York, N. Y. Renewed July 11, 1942, to Stevens & Thompson Paper Company, Greenwich, N. Y., a corporation of New York, assignee.

156,871. **AJAX.** MOTOR-DRIVEN AND HAND-DRAWN FIRE EXTINGUISHERS AND CHEMICAL FIRE ENGINES. Registered July 18, 1922. BERNARD J. GOLDSTEIN, doing business under the name of Ajax Fire Engine Works, Brooklyn, N. Y. Renewed July 18, 1942, to Louis E. Carlough, doing business as The Safety Fire Extinguisher Co., New York, N. Y., assignee.

157,388. **SOLVO.** A CHEMICAL CLEANER FOR CERAMIC MATERIALS. Registered August 1, 1922. THE SINCLAIR MANUFACTURING COMPANY, Toledo, Ohio, a corporation of Ohio. Renewed August 1, 1942.

157,517. **RECOWA.** CERTAIN NAMED PIECE GOODS. Registered August 8, 1922. HEBERLEIN & CO. A. G., Wattwil, Switzerland, a corporation of Switzerland. Renewed August 8, 1942.

157,632. **THE CONNING TOWER.** NEWSPAPER COLUMN. Registered August 15, 1922. FRANKLIN P. ADAMS, New York, N. Y. Renewed August 15, 1942, to Franklin P. Adams, Westport, Conn.

157,656. **WRIN KRIN.** COTTON PIECE GOODS. Registered August 15, 1922. COHN-HALL-MARX CO., New York, N. Y. Renewed August 15, 1942.

157,673. **LUNDITE.** CORUNDUM, EMERY, AND SILICON CARBIDE. Registered August 15, 1922. GENERAL ABRASIVE COMPANY, INC., Niagara Falls, N. Y., a corporation of New York. Renewed August 15, 1942.

157,682. **HESS.** MEDICINE CABINETS. Registered August 15, 1922. HESS WARMING & VENTILATING COMPANY, Chicago, Ill., a corporation of Illinois. Renewed August 15, 1942.

157,758. **REPRESENTATION OF A CHECKER DESIGN.** LIQUID STOVE POLISH, METAL POLISH, ENAMEL CLEANER, AND WASTE-PIPE CLEANER. Registered August 15, 1922. RUTLAND FIRE CLAY CO., Rutland, Vt., a corporation of Vermont. Renewed August 15, 1942.

157,980. **"BRISTOL".** STEEL SHAFTS FOR GOLF CLUBS. Registered August 22, 1922. THE HORTON MANUFACTURING COMPANY, Bristol, Conn., a corporation of Connecticut. Renewed August 22, 1942.

157,981. **COLEMAN'S.** GINGER ALE, ROOT BEER, SARSAPARILLA, BIRCH BEER, ORANGE AND LEMON SOUR. Registered August 22, 1922. THE HUDON CO., Buffalo, N. Y., a corporation of New York. Renewed August 22, 1942.

158,010. **PICTOL.** A DEVELOPER FOR PHOTOGRAPHIC PURPOSES. Registered August 22, 1922. MALLINCKRODT CHEMICAL WORKS, St. Louis, Mo., a corporation of Missouri. Renewed August 22, 1942.

158,047. **CASTLE.** MEN'S HATS. Registered August 22, 1922. O'ROURKE, EUBANKS HAT CO., INC., San Francisco, Calif., a corporation of California. Renewed August 22, 1942.

158,199. **HUMDINGER.** DIAPHRAGM PUMPS. Registered August 29, 1922. RALPH B. CARTER COMPANY, New York, N. Y., a corporation of New York. Renewed August 29, 1942.

158,217. **AMESTYLE.** ENVELOPES, FILE FOLDERS, AND FILE POCKETS. Registered August 29, 1922. JOHN W. FITZGERALD, doing business as The Ames Safety Envelope Company, Boston, Mass. Renewed August 29, 1942, to Ames Safety Envelope Company, Somerville, Mass., a corporation of Massachusetts, successor.

158,548. **MAGIC-LITE.** ELECTRIC-LIGHTING FIXTURES. Registered September 5, 1922. ST. LOUIS BRASS MFG. CO., St. Louis, Mo., a corporation of Missouri. Renewed September 5, 1942.

158,603. **GOLD BOND.** PUTTY. Registered September 12, 1922. BAKER PAINT & VARNISH CO., Jersey City, N. J., a corporation of New Jersey. Renewed September 12, 1942.

158,604. **BARNSTEAD.** APPARATUS FOR STERILIZING SURGICAL AND DENTAL INSTRUMENTS. Registered September 12 1922. BARNSTEAD STILL AND STERILIZER CO., Boston, Mass., a corporation of Massachusetts. Renewed September 12, 1942.

158,620. **PERMA-LAC.** READY-MIXED PAINTS, VARNISHES, STAINS, AND ENAMEL PAINTS. Registered September 12, 1922. BRADLEY & VROOMAN COMPANY, Chicago, Ill., a corporation of Illinois. Renewed September 12, 1942.

158,679. **G S O CO.** ILLUMINATING AND LUBRICATING OILS AND GREASES. Registered September 12, 1922. GALENA-SIGNAL OIL CO., Franklin, Pa. Renewed September 12, 1942, to Valvoline Oil Company, Cincinnati, Ohio, and New York, N. Y., a corporation of New Jersey, assignee.

158,684. **GLOBE-SEAL.** LUBRICATING OIL AND GREASE. Registered September 12, 1922. THE GLOBE REFINING COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed September 12, 1942.

158,699. **REPRESENTATION OF AN OWL, BOOK, AND GEAR-WHEEL.** CERTAIN NAMED COTTON FABRICS IN PIECES. Registered September 12, 1922. HEBERLEIN & CO. A. G., Wattwil and Rietwies, Switzerland. Renewed September 12, 1942, to Heberlein & Co. A. G., Wattwil, Switzerland, a corporation of Switzerland.

158,718. **SILVER.** CARBON PAPER AND TYPEWRITER RIBBONS. Registered September 12, 1922. KEE LOX MANUFACTURING COMPANY, Rochester, N. Y., a corporation of New York. Renewed September 12, 1942.

158,837. **ARTWOL.** WOOL AND ARTIFICIAL-SILK PIECE GOODS AND COMBINATIONS OF THE SAME. Registered September 12, 1922. TURNER & WALLS. Renewed September 12, 1942, to Albert H. Vandam Co., Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

158,886. **ATLANTIC.** METAL (GALVANIZED IRON OR TIN) PAILS, COAL HODS, DINNER PAILS, SPRINKLING POTS, BUCKETS, CANS, TOTE BOXES, AND RADIATOR FILLERS. Registered September 19, 1922. ATLANTIC STAMPING COMPANY, Rochester, N. Y., a corporation of New York. Renewed September 19, 1942.

158,901. **ST. CHARLES.** EVAPORATED MILK. Registered September 19, 1922. THE BORDEN COMPANY. Renewed September 19, 1942, to The Borden Company, New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

158,905. **DAIRY MAID.** CHOCOLATE, COCOA, AND CANDIES. Registered September 19, 1922. BREWSTER SONS COMPANY. Renewed September 19, 1942, to Brewster Ideal Chocolate Co., Newark, N. J., a corporation of New Jersey, assignee by mesne assignments.

158,908. **BURTON.** MATTRESSES, CUSHIONS, PADS, SPRINGS, BOX SPRINGS, PILLOWS, AND BEDS. Registered September 19, 1922. BURTON-DIXIE CORPORATION. Renewed September 19, 1942, to Burton-Dixie Corporation, Chicago, Ill., a corporation of Delaware, assignee.

158,915. **SHAW NEE.** SHEETING, SHEETS, AND PILLOWCASES. Registered September 19, 1922. CARTER DRY GOODS CO., Louisville, Ky., a corporation of Kentucky. Renewed September 19, 1942.

158,924. **REST CURE.** WOMEN'S LEATHER SHOES. Registered September 19, 1922. CRADDOCK TERRY COMPANY. Renewed September 19, 1942, to Craddock-Terry Shoe Corp., Lynchburg, Va., a corporation of Virginia, assignee.

158,928. **BABIE GRANDE.** HOSIERY. Registered September 19, 1922. DAISY WHITEHEAD KNITTING CO. Renewed September 19, 1942, to Joseph A. Sacks, doing business as Daisy Whitehead Knitting Co., New York, N. Y., successor.

158,963. **THE OSH KOSH.** HORSESHOES. Registered September 19, 1922. GIANT GRIP MFG. CO., Oshkosh, Wis., a corporation of Wisconsin. Renewed September 19, 1942.

158,968. **LITTLE GENERAL.** INFANTS' HOSIERY. Registered September 19, 1922. W. T. GRANT COMPANY. Renewed September 19, 1942, to W. T. Grant Company, New York, N. Y., a corporation of Delaware, assignee.

159,028. **McDOUGALL-BUTLER BUFFALO.** CERTAIN NAMED PAINTS, COLORS, VARNISHES, STAINS, AND DRIERS. Registered September 19, 1922. McDOUGALL-BUTLER CO., INC., Buffalo, N. Y., a corporation of New York. Renewed September 19, 1942.

159,041. **REPRESENTATION OF A TRIANGLE AND M.** MIXED PAINTS, STAINS, PAINT ENAMELS, FILLERS, PREPARED PAINTS, SURFACERS, VARNISHES, COLORS IN OIL, AND PASTE PAINTS. Registered September 19, 1922. BENJAMIN MOORE & CO., Jersey City, N. J., and Brooklyn, N. Y. Renewed September 19, 1942, to Benjamin Moore & Co., Jersey City, N. J., and New York, N. Y., a corporation of New Jersey.

159,046. **AMERICAN BEAUTY.** IRON BEDS, BED SPRINGS, COTS, ELASTIC WHITE FELT MATTRESSES, HAIR MATTRESSES, CUSHIONS, PILLOWS, AND BOLSTERS. Registered September 19, 1922. NATIONAL MATTRESS CO. INC. Renewed September 19, 1942, to American Beauty Mattress Company, Incorporated, Lynchburg, Va., a corporation of Virginia, by change of name.

159,051. **REPRESENTATION OF A FIREPLACE.** HOUSEHOLD, OFFICE, AND FACTORY CHAIRS. Registered September 19, 1922. NICHOLS & STONE COMPANY, Gardner, Mass., a corporation of Massachusetts. Renewed September 19, 1942.

159,093. **THE T SQUARE.** MONTHLY PUBLICATIONS. Registered September 19, 1922. CHARLES SCRIBNER'S SONS, New York, N. Y., a corporation of New Jersey. Renewed September 19, 1942.

159,104. **RED JACKET.** HOSIERY. Registered September 19, 1922. CALEB SMITH, doing business as Seneca Knitting Company. Renewed September 19, 1942, to Seneca Knitting Mills, Inc., Seneca Falls, N. Y., a corporation of New York, assignee.

159,107. **THE AUTOMOBILE TRIMMER AND PAINTER.** JOURNAL PUBLISHED MONTHLY. Registered September 19, 1922. THE SPOKESMAN PUBLISHING COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed September 19, 1942.

159,134. **MASTERPIECE.** BED SPRINGS. Registered September 19, 1922. UNION BED AND SPRING COMPANY. Renewed September 19, 1942, to Burton-Dixie Corporation, Chicago, Ill., a corporation of Delaware, assignee by mesne assignments.

REISSUES

APRIL 28, 1942

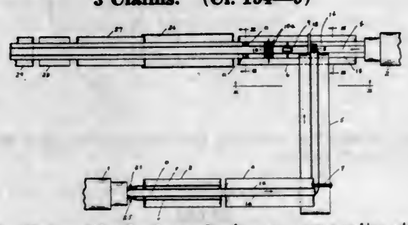
22,080

TIRE MANUFACTURE

Archibald C. Bowers, Akron, Ohio, assignor to Pennsylvania Rubber Company, a corporation of Pennsylvania

Original No. 2,230,072, dated January 28, 1941, Serial No. 179,415, December 13, 1937. Application for reissue December 2, 1941, Serial No. 421,340

3 Claims. (Cl. 154—9)



2. The method of producing a composite strip of which to form the side-wall and tread of a tire, which method consists in shaping the side-wall portion of the strip with lateral ridges and an intervening valley, forming the tread portion of the strip with a width exceeding the space between the ridges in the side-wall portion, and feathering the side edges of said tread portion, assembling the two strip portions progressively, with the feathered edges of the tread portion positioned upon the ridges of the side-wall portion, and under rubber-bonding stress progressively pressing the tread portion into the valley between the ridges of said side-wall portion and shaping the body of such tread portion to the body of said side-wall portion within said valley, and then stitching the feathered edges of the tread portion over the crests of the ridges on the side-wall portion.

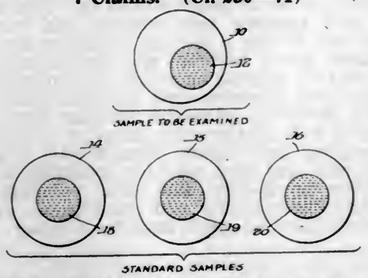
22,081

METHOD OF DETERMINING THE PETROLEUM OIL CONTENT OF EARTH SAMPLES

John G. Campbell, Houston, Tex., assignor to Ralph H. Fash, trustee, Fort Worth, Tex.

Original No. 2,227,438, dated January 7, 1941, Serial No. 231,576, September 24, 1938. Application for reissue March 26, 1941, Serial No. 385,291

7 Claims. (Cl. 250—71)



1. The method of determining the oil content of earth samples which consists in preparing a series of spots of relatively uniform size of standard samples of oil of known concentration but which differ in oil content, preparing a spot of substantially the same size from oil extracted from an earth sample and wherein the concentration is unknown, comparing said latter spot under ultra-violet light with said standard spots and noting the fluorescence, and then computing the oil content of the spot prepared from oil extracted from the earth sample on the basis of the known concentration of the particular standard spot having approximately the same fluorescence.

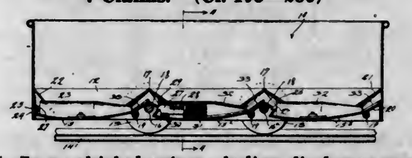
22,082

DROP BOTTOM CAR

Ed W. Duncan, Blue Diamond, Ky.

Original No. 2,138,695, dated November 29, 1938, Serial No. 204,455, April 26, 1938. Application for reissue November 29, 1940, Serial No. 367,792

7 Claims. (Cl. 105—286)



1. In a vehicle having a lading discharge opening and a downwardly opening door pivotally connected to the vehicle to be moved against the action of gravity to close the opening, means forming a keeper element carried by the vehicle, a reciprocable latch carried by the door for engagement with said keeper when the door is in closed position, an electro-magnet supported by the door and cooperatively associated with the latch to release the same upon energization, and circuit controlling means comprising a contact member carried by the vehicle and a second contact member having a station with respect to the path of movement of the vehicle to be momentarily engaged by the first contact when the vehicle reaches and passes a predetermined position in the path, said contact members being connected in series with the electro-magnet and source of potential and said electro-magnet being energized and releasing the latch upon engagement of the contact members one with the other.

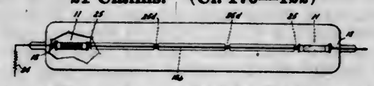
22,083

GASEOUS AND VAPOR ELECTRIC DISCHARGE DEVICE

George E. Inman, East Cleveland, Ohio, assignor to General Electric Company, a corporation of New York

Original No. 2,103,034, dated December 21, 1937, Serial No. 743,504, September 11, 1934. Application for reissue October 19, 1939, Serial No. 300,240

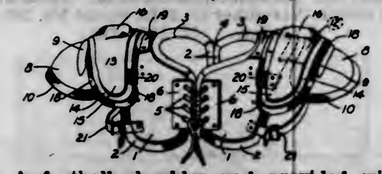
21 Claims. (Cl. 176—122)



1. A positive column electric discharge device comprising an envelope containing an ionizable gaseous atmosphere therein for the starting and operation of the device; widely separated coacting main discharge electrodes in said envelope, one at least thermionic; a discharge circuit for said main electrodes, and a heating circuit for said

thermionic electrode having a relatively short discharge gap thereacross in the atmosphere in said envelope; heating means in said heating circuit for said thermionic main electrode; and voltage-controlling means for said heating circuit automatically permitting thereacross a voltage sufficiently exceeding the ionizing potential of the atmosphere in the envelope, during starting, to produce a local discharge across its said gap and thereby ionize the atmosphere and start the main discharge between said electrodes, and thereafter reducing the heating circuit voltage and thus preventing objectionable persistence of such local discharge.

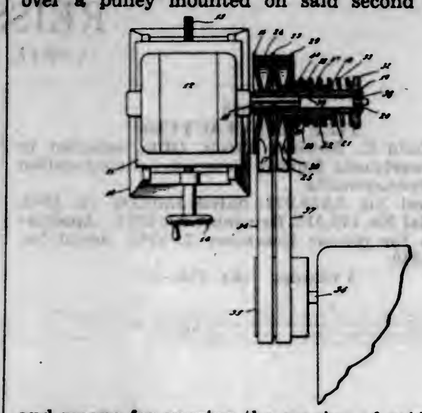
22,084
FOOTBALL SHOULDER PAD
Edwin M. Lookabaugh, Stillwater, Okla.
Original No. 2,251,018, dated July 29, 1941, Serial No. 287,585, July 31, 1939. Application for reissue September 2, 1941, Serial No. 409,320
9 Claims. (Cl. 2—2)



9. A football shoulder pad provided with a body protecting portion, shoulder flaps, hinges for joining said flaps to said body protecting portion located at the inner edges of said flaps intermediate the front and rear ends of same, and snubbing devices connected to said body protecting portion and to the front and rear end portions of said flaps, and having provision for restricting downward movement of said flaps relatively to said body protecting portion and for preventing the flaps from skewing around or shifting inwardly towards said body protecting portion sufficiently to uncover or expose portions of the user's body which said flaps are designed to protect.

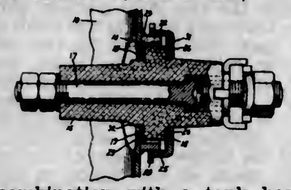
22,085
MULTIPLE-BELT VARIABLE SPEED UNIT
Paul B. Reeves, Columbus, Ind., assignor to Reeves Pulley Company, Columbus, Ind., a corporation of Indiana
Original No. 2,111,077, dated March 15, 1938, Serial No. 107,921, October 28, 1936. Application for reissue December 15, 1941, Serial No. 423,084
12 Claims. (Cl. 74—230.17)

1. In a device of the class described, a shaft, means for driving said shaft, a disc having a coned face fixed on said shaft, a second disc having two oppositely coned faces slidably but non-rotatably mounted with respect to said shaft adjacent said first disc, and a third disc having a coned face slidably but non-rotatably mounted with respect to said shaft in facing relation to said second disc, said three discs cooperating to form two expansible V-pulleys, spring means urging said third disc toward said first disc, a second shaft, a V-belt received between said first and second discs and passing over a pulley on said second shaft, and a second belt received between said second and third discs and passing over a pulley mounted on said second shaft,



and means for varying the spacing of said discs from each other.

22,086
BUSHING
Edward D. Treanor, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Original No. 2,264,816, dated December 2, 1941, Serial No. 332,750, May 1, 1940. Application for reissue January 27, 1942, Serial No. 428,410
3 Claims. (Cl. 174—152)



1. The combination with a tank having an opening in a wall thereof, of means for electrical connection between the inside and outside of said tank comprising an integral insulating bushing extending through said opening, said bushing having an annular flange of a diameter greater than the cross section of said opening, an externally threaded ring welded to the outer surface of said tank wall about said bushing flange, said ring having an inner dimension greater than the outer dimension of said flange so that there is a clearance therebetween, a compressible gasket arranged within said ring about said wall opening and beneath said bushing flange and having a portion extending into the clearance space between said flange and said ring, and an annular clamping nut threaded for cooperatively screwing onto said ring and having an inwardly extending annular flange for engaging with said bushing flange so as to tightly compress said gasket between said bushing flange and said tank wall for providing a substantially liquid-tight seal, said clamping nut substantially enclosing said compressible gasket for protecting said gasket from the weather.

PLANT PATENTS

GRANTED APRIL 28, 1942

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

510
PECAN TREE
Robert Alsey Harris, Riverside, Calif., assignor to Lawrence Sherwood, Fullerton, Calif.
Application April 18, 1941, Serial No. 389,239
1 Claim. (Cl. 47—62)

The new and distinct variety of pecan tree herein described, characterized particularly by its vigorous and pendulous growth; its unusual hardiness; its wide adaptability to varying conditions of soil and moisture; its consistent production of large crops even under adverse circumstances in which other varieties fail to produce; its early maturing season; and its nuts that cling with a high degree of tenacity, ripen evenly, crack and release well, and have plump kernels of fine texture and excellent flavor.

511
ROSE
Henary L. McClung, Tyler, Tex.
Application August 4, 1939, Serial No. 288,422
1 Claim. (Cl. 47—61)

The rose plant variety herein shown and described, and which is characterized by the fact that it is profusely ever-blooming and occurs both as a bush and as a semi-climber having a medium amount of dark green foliage and an unusually large number of small thorns, and whose blooms are borne singly and in clusters and occur on long straight stems and are of a large double-petal variety of a bright red color, each bloom having a full open center and about 26 shiny petals which curl back, the inner petals being relatively small and curling inwardly and the larger outer petals curling outwardly.

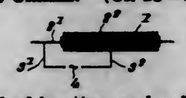
512
RED RASPBERRY
Brooks D. Drain, Knoxville, Tenn., assignor to The University of Tennessee Research Corporation, Knoxville, Tenn., a corporation of Tennessee
Application November 1, 1940, Serial No. 363,934
1 Claim. (Cl. 47—62)

The red raspberry substantially as herein disclosed, characterized by ever-bearing, adaptation to a soil and climate similar to that of Tennessee and prolific fruiting.

PATENTS

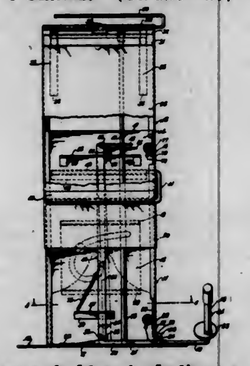
GRANTED APRIL 28, 1942

2,280,771
METHOD OF BAKING OR VULCANIZING INDIA-RUBBER OR SIMILAR MATERIALS
René Dufour, Paris, and Henri Auguste Leduc, Asnieres, France
Application October 14, 1935, Serial No. 44,974
In Luxemburg April 5, 1935
10 Claims. (Cl. 18—53)



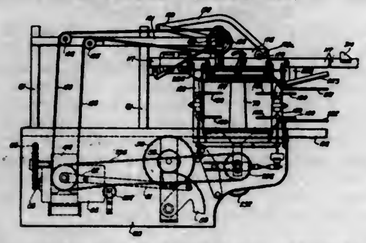
1. A method of heating and vulcanizing a heterogeneous mass composed of pure rubber and conventional vulcanizing ingredients for rubber having different dielectric constants from pure rubber, comprising placing the mass to be treated as a dielectric between spaced metallic elements forming the electrodes of an electric condenser, and supplying an alternating current having at least a periodicity of the order of a million cycles per second to said elements.

2,280,772
COPYHOLDER
Nugent Dodds, Washington, D. C., assignor to Alfred M. Houghton, Washington, D. C.
Application November 20, 1940, Serial No. 366,486
8 Claims. (Cl. 120—29)



1. In a copy holder including a base, mutually telescoping members, one of said members being adapted to hold copy and the other including line indicating means, means for moving one of said members to designate a selected line of copy, and means carried by one of said members and the base for positioning said movable members as a unit in either a vertical operative or horizontal inoperative position, means for locking said members against relative movement in any relative position when they are as a unit in vertical operative position, means for holding said members as a unit in vertical operative position, and means controlled by said holding means for locking said members against relative movement when they are as a unit in horizontal inoperative position, whereby the movable member may be held in fixed position regardless of whether the members are as a unit in vertical operative or horizontal inoperative position.

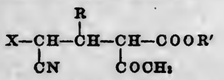
2,280,773
CARTON OPENING, FOLDING, AND POSITIONING MACHINE
John Lee Ferguson, Joliet, Ill., assignor to J. L. Ferguson Company, Joliet, Ill., a corporation of Illinois
Application August 3, 1940, Serial No. 350,675
31 Claims. (Cl. 93—53)



1. A machine of the character described comprising, in combination, means for feeding collapsed cartons one at a time forwardly of the machine; power-actuated means for opening the cartons; an arm lying in the path of a carton as it expands from collapsed to open position; a switch operated by said arm; an electric motor having a control circuit and driving said carton-feeding means; said switch being so connected in said circuit that the motor is continued in circuit so long as the cartons continue one at a time to open against said arm; said motor circuit being broken when there is a single failure by a carton to open; and a solenoid brake in the motor circuit stopping the motor and hence the machine after said motor circuit is broken.

2,280,774
DERIVATIVES OF α-CYANO-γ-ACETYL-GLUTARIC ACID AND PROCESS FOR THE MANUFACTURE THEREOF
Max Hoffer, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application February 18, 1941, Serial No. 379,546. In Switzerland March 29, 1940
17 Claims. (Cl. 260—464)

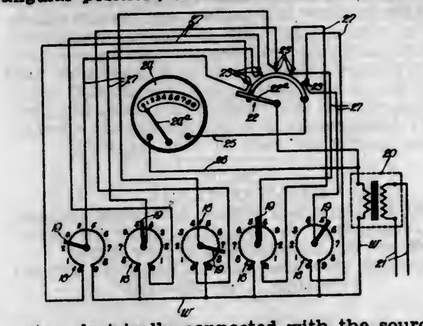
1. A compound of the formula



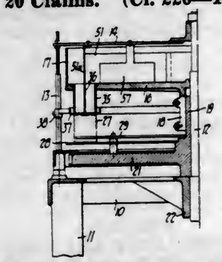
wherein R is selected from the group consisting of alkyl, alkoxyalkyl, cycloalkoxyalkyl, aryloxyalkyl, aralkyloxyalkyl, aryl, aralkyl and cycloalkyl radicals, and X from the group consisting of —$CONH_2$ and —CN, and R' is a lower alkyl radical.

2,280,775
METER READING DEVICE
Earl C. Mirk, Milwaukee, Wis.
Application March 20, 1939, Serial No. 263,019
9 Claims. (Cl. 177—351)

1. A meter reading device adapted to be removably attached to a standard meter having dials and dial hands without alteration of the meter, comprising a rheostat; a rheostat arm; means mechanically connecting the rheostat hand with a dial arm so that the arm and the hand revolve together and always have the same angular position; a source of electricity; a voltmeter electrically connected with the source of electricity; the rheostat also being connected with the source of electricity; and an operator-controlled selector switch electrically connected with the voltmeter, the source of electricity, the rheostat and the rheostat arm.



2,280,776
FILLING MACHINE AND METHOD
Philip H. Allen, Oakland, Calif., assignor to Richmond-Chase Co., San Jose, Calif., a corporation of California
Application May 26, 1939, Serial No. 275,951
20 Claims. (Cl. 226—100)

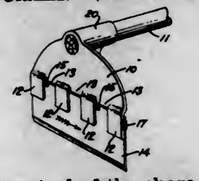


1. In a filling machine, a rotatable hopper, a series of measuring pockets depending from said hopper, a substantially arcuate dividing partition in each of said pockets, said partition being arranged concentric with the axis of rotation of said hopper, a stationary arcuate dividing wall having its lower edge in vertical alignment with said partitions, and means for feeding different stocks on either side of said wall and for directing the respective stocks into said pockets.

2,280,777
SYNTHETIC NAPHTHOQUINONE DERIVATIVES
Herman James Almquist, El Cerrito, and Alvin A. Klose, Berkeley, Calif., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application February 7, 1940, Serial No. 317,776
2 Claims. (Cl. 260—396)

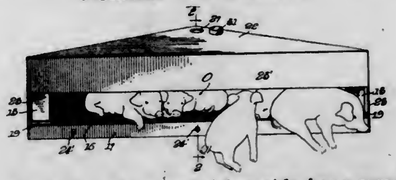
1. The process for the synthetic production of 2-methyl-3-phytyl-1,4-naphthoquinone which comprises the steps of condensing phytyl bromide with 2-methyl-1,4-naphthoquinone by refluxing them in the presence of petroleum ether, glacial acetic acid and zinc dust, and in the dark for substantially twenty hours, adding absolute ethanol to the reaction mixture, extracting the reaction product with hexane, fractionating the washed and filtered reaction product in a molecular still in which the closed end is maintained at a temperature of at least 140° C., redistilling the vitamin fraction, dissolving the distillate in methanol, and crystallizing the vitamin product by cooling with solid carbon dioxide and centrifuging.

2,280,778
GARDEN TOOL
John C. Andersen, Crockett, Calif.
Application September 29, 1939, Serial No. 297,060
3 Claims. (Cl. 306—25)



1. In a garden tool of the character described, the combination of a handle supporting head having a plurality of coextensive tongues arranged in staggered relation along one edge thereof and forming a mutilated channel between which the upper edge of a working blade is positioned, one or more of said coextensive tongues having a detent receiving recess in one edge thereof, an earth working blade having its upper edge positioned within the channel formed by the coextensive tongues upon said head, detent forming means carried by said blade adapted to be brought into cooperating relation with the recess upon said one or more of said coextensive tongues by a lateral movement of the blade and normally prevent a vertical displacement thereof from said head, and means also carried by said blade for preventing a reverse lateral movement of said blade with respect to said head when said detent forming means is positioned in cooperating relation with the recess upon said one or more coextensive tongues upon said head.

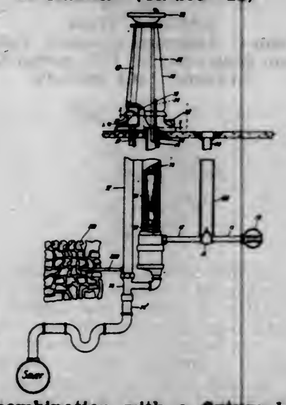
2,280,779
PIG BROODER
John L. Barragy, Rockwell, Iowa
Application March 11, 1941, Serial No. 382,825
5 Claims. (Cl. 119—33)



1. A pig brooder comprising side bars secured together to form a horizontal base frame, corner posts secured to the corners of said base frame and rising therefrom, a floor plate resting on said side bars and having downturned flanges at the outer sides thereof, additional side bars secured together to form a horizontal top frame corresponding in shape to said base frame, said top frame being secured to said corner posts, a top plate resting on said top frame, and side walls secured to the edges of said top plate and extending downwardly therefrom, all but one of said side walls being in overlapping relation with the

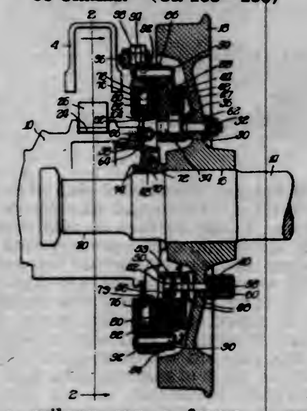
subjacent flanges of said floor plate, said one of said side walls being upwardly spaced from said floor plate to allow the pigs to enter and leave.

2,280,780
ANTIFREEZE ANTIPOLLUTION DRINKING FOUNTAIN
Thomas E. Bart, Robert C. Gewdy, and Frank Zugelter, Cincinnati, Ohio, assignors to The Murdock Manufacturing and Supply Company, Cincinnati, Ohio, a corporation of Ohio
Application March 20, 1939, Serial No. 262,926
11 Claims. (Cl. 299—11)



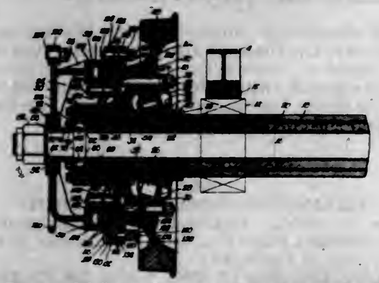
1. The combination with a fixture having a fresh water supply outlet, means for opening and closing said outlet and a connection for draining said fixture of any water remaining therein after closing of said outlet, of means for sealing said connection against return passage of any waste fluid matter to said water supply outlet by way of said drain connection, said means having a fluid entrance opening and a fluid discharge opening and means having communication at said fluid discharge opening with the atmosphere and said fluid discharge opening for relieving tendency toward low pressure conditions in said fixture beyond said sealing means.

2,280,781
RAILWAY BRAKE
Walter H. Baselt, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application September 8, 1939, Serial No. 293,915
36 Claims. (Cl. 188—153)



1. In a railway car, a frame, a supporting wheel and axle having a journal and a journal box therefor, an inboard cover plate for said box, braking means comprising a plurality of rotors mounted on said wheel, a plurality of stators supported from said plate, means on said plate operable to move said rotors and stators axially into a compact pile for frictional engagement with each other, said operating means comprising a ring cylinder integrally formed with said plate and a ring piston operable in said cylinder to compress said rotors and stators into frictional engagement, and independently operable release means for each of said stators.

2,280,782
RAILWAY BRAKE
Walter H. Baselt and Wesley A. Helsten, Chicago, Ill., assignors to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application December 6, 1939, Serial No. 307,736
36 Claims. (Cl. 188—153)



1. In a vehicle, a frame, supporting wheel and axle assemblies, each of said assemblies comprising an inner nonrotating axle enclosed in a rotating axle, an outer nonrotating axle sleeved thereover, a wheel on said rotating axle, rotor means carried by said wheel, stator means supported from said inner axle, operating means for said rotor means and said stator means including a ring cylinder resiliently supported from said inner nonrotating axle, and a torque arm connected for cooperative action with a torque arm of an adjacent wheel and axle assembly.

2,280,783
ROLLING INTERNALLY FLANGED ANNULI
Davitt S. Bell, Pittsburgh, and Byron W. Dunham, Oakmont, Pa., assignors to Edgewater Steel Corporation, Oakmont, Pa., a corporation of Pennsylvania
Application December 14, 1938, Serial No. 245,634
8 Claims. (Cl. 80—60)

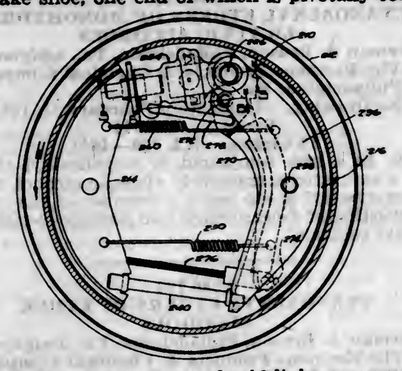


1. The method of rolling an internally flanged annulus which comprises forming an annular bloom and then subjecting it to rolling operations in radial and axial directions, the portion of the blank in the plane of the flange being subjected to a radial rolling step separate from but in conjunction with the rolling in a radial direction of the remainder of the rim.

2,280,784
BRAKE
Edward H. Berno, Plymouth, Mich.
Application March 9, 1939, Serial No. 360,795
12 Claims. (Cl. 188—73)

1. Brake mechanism comprising a brake drum,

a backing plate, an anchor pin carried thereby, a pair of links each of which is pivotally secured to said anchor pin in such a manner so as to have a limited sliding movement relative thereto, a brake shoe, one end of which is pivotally con-



nected to one end of one of said links, a connection between the other end of said shoe and the free end of the other of said links and a shoe carried by said other of said links, one of said links being extensible for moving said shoes into braking engagement with said drum.

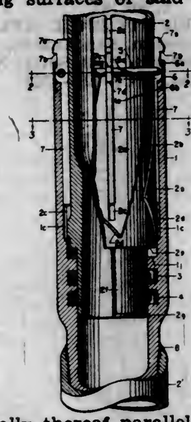
2,280,785
WELL TESTING TOOL
Alexander Boynton, San Antonio, Tex.
Application October 4, 1938, Serial No. 233,236
18 Claims. (Cl. 166—11)



1. A well testing tool including a pair of outer shells, a packer on each shell, an operating pipe extending into said shells, a latch means for each of said packers disposed between said pipe and shell to latch the pipe against movement, a reservoir in each of said shells, a pair of means releasable in sequence by manipulation of said pipe upon release of said latches to force liquid from one reservoir into the lower of said packers and then from the other reservoir into the upper of said packers.

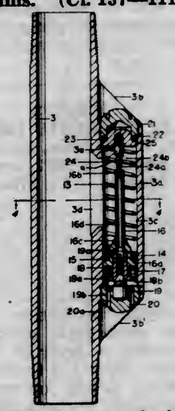
2,280,786
THREADLESS DRILL PIPE
Alexander Boynton, San Antonio, Tex.
Application July 17, 1939, Serial No. 284,894
8 Claims. (Cl. 285—146)

1. A coupling for drill pipe sections including interengaging male and female members on said sections, spiral lands and grooves on said members formed to interfit by a screwing action where said members are engaged, keyways in the meeting surfaces of said members formed



longitudinally thereof parallel with the axis of said coupling, keys to engage in said keyways, and a snap ring formed to engage said female member and said keys and resist removal of said keys.

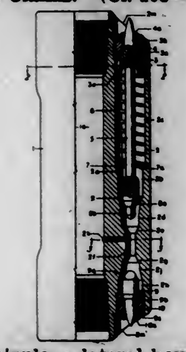
2,280,787
DIFFERENTIAL STAGE LIFT FLOW DEVICE
Alexander Boynton, San Antonio, Tex.
Application December 8, 1939, Serial No. 308,306
5 Claims. (Cl. 137—111)



1. In a stage lift flowing device, a tubular nipple, a valve chamber in the wall of said nipple, said chamber having an inlet at one end for admitting fluid from a pressure fluid chamber to the valve chamber and an outlet in the wall of the chamber and in spaced relation with the inlet for passage of the pressure fluid to a chamber within which liquid is to be lifted by the pressure fluid, a valve assembly within the valve chamber, said assembly including a tubular piston slidable within the chamber, an annular valve seat at the lower end of the chamber, a tapered pin extending upwardly from within said valve seat and adapted to enter the bore in said piston, means resiliently urging the valve assembly downwardly into engagement with said valve seat, a seating surface at the upper end of the bore in the piston, and a downwardly facing valve seat

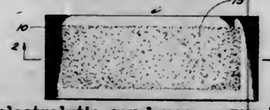
at the upper end of the chamber adapted to close the passage through the valve assembly when the piston rises a predetermined distance.

2,280,788
FLOW DEVICE FOR OIL WELLS
Alexander Boynton, San Antonio, Tex.
Application December 8, 1939, Serial No. 308,322
9 Claims. (Cl. 103—233)



1. A flow nipple, a lateral housing thereon, an upper valve chamber therein, a lower valve chamber in alignment with said upper chamber, a cylindrical passage connecting said chambers, a lateral outlet from said passage to the interior of said flow nipple, a valve in said upper chamber, a seat therefor at the upper end of said passage, means to hold said valve resiliently off its seat, a lower valve in said lower chamber, and an annular seat therefor in said lower chamber at the lower end of said passage, there being fluid passages communicating from the exterior into said upper chamber and said lower valve chamber respectively.

2,280,789
ELECTROLYTIC DEVICE
Joseph B. Brennan, Euclid, Ohio
Application August 9, 1937, Serial No. 158,105
30 Claims. (Cl. 175—315)



1. An electrolytic condenser comprising a plurality of plates, each plate comprising a flexible porous base having a layer of minute cohering particles of metal deposited thereon and adhering thereto, insulating means for spacing said plates apart, and electrolyte permeating said bases and said layers and means for connecting said plates to an external circuit.

2,280,790
UNSATURATED ETHER NITRILES
Herman A. Bruson, Philadelphia, Pa., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa.
No Drawing. Application December 23, 1940, Serial No. 371,403
12 Claims. (Cl. 260—464)

7. As new compounds, β-cyanoalkyl ethers having the general formula

$$R_1\text{—}O\text{—}CH_2\text{—}\underset{\displaystyle R_2}{CH}\text{—}CN$$

in which R_1 is the organic radical of an unsaturated monohydric alcohol and R_2 is a member of the group consisting of hydrogen and the methyl group.

2,280,791
CYANOALKYL ETHERS OF MONOHYDRIC ALICYCLIC ALCOHOLS
Herman A. Bruson, Philadelphia, Pa., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa.
No Drawing. Application February 21, 1941, Serial No. 379,944
13 Claims. (Cl. 260—464)

9. As a new compound, a β-cyanoalkyl ether of a saturated monohydric alicyclic alcohol, said β-cyanoalkyl group being a member of the class consisting of β-cyanoethyl and β-cyano-β-methyl ethyl radicals.

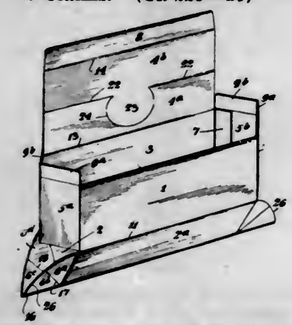
2,280,792
CYANOALKYL ETHERS OF ETHER ALCOHOLS
Herman A. Bruson, Philadelphia, Pa., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa.
No Drawing. Application February 27, 1941, Serial No. 380,793
14 Claims. (Cl. 260—464)

10. As new compositions of matter, nitriles of the formula

$$XR(OC_nH_{2n})_xOC_2H_4CN$$

wherein X represents a halogen, R represents a hydrocarbon group, n represents a whole number having a value from 2 to 4 inclusive, and x represents an integer.

2,280,793
COLLAPSIBLE BOX
Herman A. Carruth, Northford, Conn., assignor to National Folding Box Company, New Haven, Conn., a corporation of New Jersey
Application June 12, 1939, Serial No. 278,652
6 Claims. (Cl. 229—16)

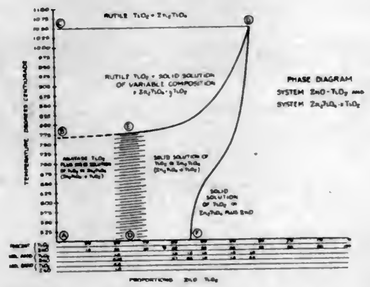


1. A collapsible box formed from paperboard material including, an uncut bottom wall panel, oppositely arranged side wall panels hinged to said bottom wall panel, oppositely arranged end wall panels hinged to said side wall panels but otherwise free of said bottom wall panel, said bottom wall panel and end wall panels each having a fold line extending generally parallel to and substantially equidistantly spaced between the side edges thereof thereby permitting substantially flat collapse of said box, a bottom flap hinged to each end of the bottom wall panel having radially extending fold lines radiating from the hinge line defining said bottom flap, said bottom flap having its free edge so shaped when collapsed along said radiating fold lines as to permit insertion thereof under the free edge of the adjacent end wall panel during erection of the box from its collapsed position, and a top flap hinged to each of said end wall panels adapted to be turned inwardly to serve as a box bracing and rigidifying strut.

2,280,794
PURIFICATION OF TETRACHLORETHYLENE
Oliver W. Cass, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 11, 1940, Serial No. 344,871
5 Claims. (Cl. 202—57)

1. The method of removing from tetrachlorethylene impurities of the class consisting of 1,1,2-trichlorethane and asymmetrical tetrachlorethane which comprises treating the impure tetrachlorethylene with a hydroxide of a metal selected from the alkali and alkaline earth groups in the presence of water at an elevated temperature, the duration of the treatment, the concentration of the metal hydroxide and the reaction temperature being sufficient to cause the said impurities to react with said metal hydroxide, and fractionating the mixture to separate purified tetrachlorethylene therefrom.

2,280,795
PREPARATION OF PIGMENTS COMPRISING RUTILE TITANIUM DIOXIDE
Sandford S. Cole and Walter K. Nelson, Metuchen, N. J., assignors to National Lead Company, New York, N. Y., a corporation of New Jersey
Application August 7, 1937, Serial No. 157,888
11 Claims. (Cl. 106—292)



1. Method for the preparation of a pigmentary composition comprising rutile titanium dioxide and a thermally produced combination of zinc oxide and titanium dioxide, which comprises heating between about 430° C. and about 775° C. a mixture of a reactive zinc compound and anatase titanium-oxygen compounds in which the ZnO-content is not less than between 20.0 percent and 28.5 percent of the total weight of ZnO and TiO_2, until a solid solution of titanium dioxide in zinc orthotitanate is formed, mixing the so-produced solid solution with further amounts of anatase titanium-oxygen compounds and heating the resulting mixture above temperatures which can be represented on a graph where the abscissae are temperatures in degrees centigrade from 750° C. at the bottom to 1075° C. at the top and the ordinates are percent compositions varying in regular, proportional integers from 100 percent TiO_2 and zero percent ZnO at the left to zero percent TiO_2 and 100 percent ZnO at the right, by a curve drawn through the following points of intersection:

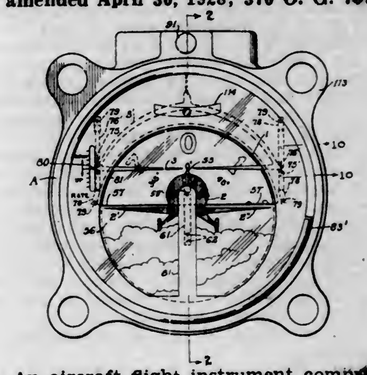
Abscissae	Ordinates
°C.	
770	99% TiO_2:1.0% ZnO
772	90% TiO_2:10% ZnO
775	80% TiO_2:20% ZnO
780	70% TiO_2:30% ZnO
792	60% TiO_2:40% ZnO
827	50% TiO_2:50% ZnO
925	40% TiO_2:60% ZnO
1050	33.3% TiO_2:66.7% ZnO

until a conversion of anatase titanium-oxygen compounds to rutile titanium dioxide is discernible by means of an X-ray examination.

2,280,796
PHOSPHORUS TITANIUM STEEL
George F. Comstock, Niagara Falls, N. Y., assignor to The Titanium Alloy Manufacturing Company, New York, N. Y., a corporation of Maine
No Drawing. Application December 18, 1940, Serial No. 370,683
2 Claims. (Cl. 75—125)

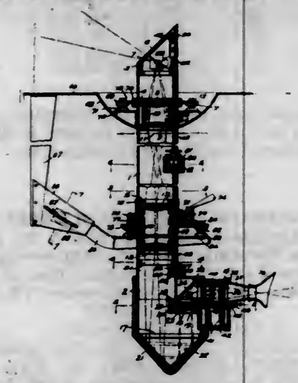
1. An iron-base alloy or steel consisting of 0.06% to 0.12% carbon, 0.08% to 0.2% phosphorus, 0.2% to 0.7% titanium, 0.1% to 0.3% silicon, 0.3% to 1.5% manganese, an appreciable amount up to 1.2% copper, and the balance iron, characterized by its resistance to corrosion, a yield point of at least 50,000 pounds per square inch when normalized at 1650° F., high tensile strength, high ductility, and an Izod impact resistance value of at least 20 foot-pounds when quenched in water from 2000° F.

2,280,797
AERIAL FLIGHT INSTRUMENT
Carl J. Crane, Montgomery, Ala.
Application March 6, 1935, Serial No. 9,689
8 Claims. (Cl. 33—204)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. An aircraft flight instrument comprising a rotatable turn indicating disc, pneumatic means for driving said disc in designation of degree of turn, and means comprising an element simulating the horizon and a second element simulating an aircraft, said elements being cooperatively disposed in the same field of view as said disc and being operable in response to the rise and fall of an aircraft and to banking of the aircraft respectively whereby relative movement of said elements with respect to said disc and rotation of said disc indicates conditions of turn and bank and rise and fall of the supporting aircraft.

2,280,798
PANORAMIC SEXTANT
Carl J. Crane and Samuel M. Burka, Dayton, Ohio
Application March 14, 1940, Serial No. 323,964
18 Claims. (Cl. 88—2.2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

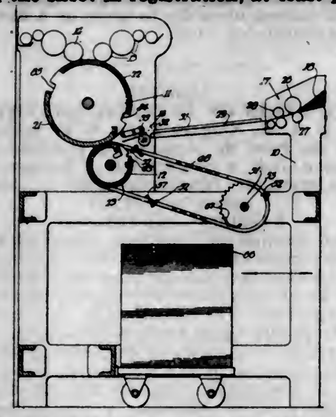


1. A sextant for making observations on exterior objects from within a closed dirigible vehicle and comprising a sighting device having an entrance portion exterior of said vehicle and an eyepiece portion interior of said vehicle, said sighting device being mounted to rotate about its longitudinal axis, horizontal reference means including a bubble movable in an arc having a given radius of curvature, adjustable reflector means associated with said entrance portion for reflecting the image of an observed object into said sighting device, optical means for transmitting said image into the focal plane of said bubble and an image of said horizontal reference means and said object to said eyepiece, the equivalent focal length of the part of said optical means which transmits the image of the object into the focal plane of said bubble being equal to the said given radius of curvature of said bubble, means responsive to adjustment of the reflector means for indicating—when said image and reference means coincide—the altitude of said observed object, and means responsive to a rotation of said sighting device for indicating the relative bearing of said observed object.

5. An optical instrument for making observations on exterior objects from within a closed space comprising an optical system having an entrance portion exterior of the said space and an eyepiece portion interior of the said space and vertically spaced bearings supporting the optical system and in which the said system is mounted to rotate about a substantially vertical axis, said bearings being movable with respect to the said space about a common horizontal axis to enable tilting of the optical system in a substantially vertical plane.

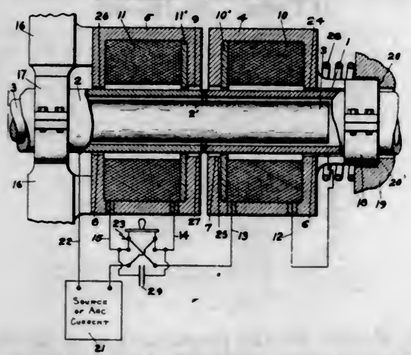
2,280,799
PRINTING PRESS
William Ward Davidson, Evanston, Ill.
Application October 3, 1939. Serial No. 297,745
16 Claims. (Cl. 101—217)

1. An offset printing press including a blanket roll, a platen above the blanket roll, registration stop means carried by the blanket roll, feeding means adapted to feed sheets against the stop means, grippers associated with the blanket roll at least at the time a sheet is fed to the stop means, and means for holding said grippers open at that time and for closing at least part of them while the sheet is pressed against the stop means to hold the sheet in registration, at least part of



the grippers being carried by endless means around the blanket roll and away therefrom for stripping the sheet from the blanket roll and delivering it at the desired point of delivery.

2,280,800
ARC WELDING DEVICE
John W. Dawson, Auburndale, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application October 11, 1940, Serial No. 360,795
9 Claims. (Cl. 219—4)

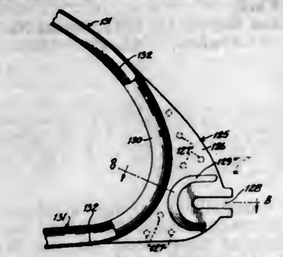


8. A welding system for welding two surfaces spaced apart comprising two magnetic members adapted to be secured to said two work members, said magnetic members having adjacent pole pieces, means for heating said surfaces, and means for energizing said pole pieces while said surfaces are spaced apart to force said surfaces together into welding engagement with each other.

2,280,801
BICYCLE CONSTRUCTION
Lawrence E. Dempsey, Oak Park, and Marshall A. Blu, Bellwood, Ill., assignors to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application September 6, 1938, Serial No. 228,502
4 Claims. (Cl. 280—284)

1. Bicycle construction comprising a resilient

frame member having upper and lower rear fork portions joined by a bend, and a relatively stiff rear axle hanger integrally united with said bend, said hanger having end sockets through which said forks extend, said sockets being formed to

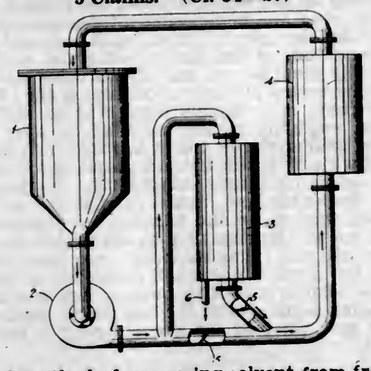


provide clearance between them and said fork portions to allow for relative flexing of said portions toward and away from each other in said sockets with respect to their positions when unstressed.

2,280,802
METHOD OF MODIFYING ORGANIC CHEMICAL MATERIALS
Harlan A. Depew, Gloucester City, N. J.
No Drawing. Application October 4, 1937, Serial No. 167,331
6 Claims. (Cl. 260—406)

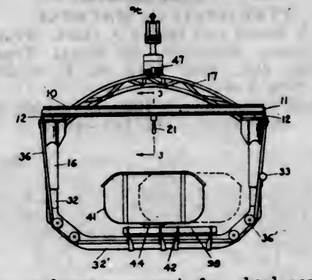
1. The method of polymerising organic materials that comprises dispersing them as vatlets in a carrying gas and polymerising them surrounded by a carrying gas so that the product does not come in contact with the walls of the reaction chamber.

2,280,803
SOLVENT RECOVERY FROM SMOKELESS POWDER
Gild Edward Desetti, Woodbury, N. J., and Walter Arthur Dew and Bill Harry Mackey, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application February 23, 1939, Serial No. 257,840
5 Claims. (Cl. 34—27)



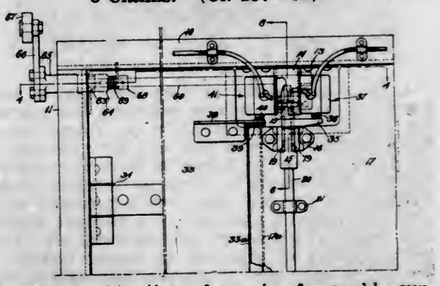
1. A method of recovering solvent from freshly granulated smokeless powder which comprises forming a substantial bed of said freshly granulated powder having a depth of the order of magnitude of at least approximately 36", passing through said bed of powder a drying medium having a temperature exceeding that of said powder at a rate of at least 7/10 cubic feet per minute per pound of dry powder, while controlling the solvent carrying capacity of said medium so that the decrease in temperature of the drying medium during its passage through said bed of powder is never more than 15° C.

2,280,804
ORDNANCE MOUNT
Alexander P. de Seversky, Northport, N. Y., assignor to Republic Aviation Corporation, a corporation of Delaware
Application March 5, 1938, Serial No. 194,099
5 Claims. (Cl. 89—37.5)



1. An ordnance mount for dual-control aircraft comprising a horizontal track adapted to be stationarily supported upon the fuselage of the aircraft, a carriage supported for rotation upon said track about a vertical axis, arms extending downwardly from opposite sides of said carriage, a cross-member extending between said arms and having its ends slidably engaging said arms, a seat supported upon said cross-member for rotation about a vertical axis, said seat normally facing aft of the aircraft, resilient means connecting said cross-member with said arms for yieldingly supporting the seat and means for laterally adjusting the position of said seat with respect to the cross-member when the seat is rotated to face forwardly of the aircraft.

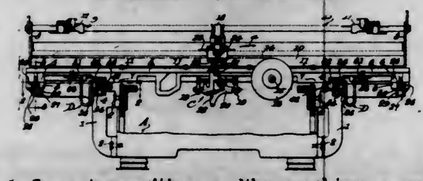
2,280,805
LOCK MECHANISM FOR ELEVATOR LANDING DOORS
John W. Dodd, Watertown, Mass., assignor to George T. McLauthlin Company, Boston, Mass., a corporation of Massachusetts
Application December 12, 1939, Serial No. 308,749
8 Claims. (Cl. 187—31)



1. The combination of a pair of movably supported elevator landing doors; manually operated bolt mechanism mounted on one of said doors for locking both doors in their closed positions, and a car-controlling mechanism including an electric circuit which is opened to render said control mechanism inoperative to effect movement of the car that is controlled by it, and two make-and-break switches arranged in series in

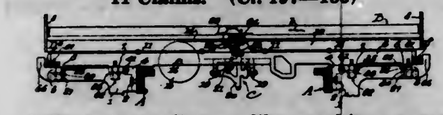
said circuit, one of said switches being controlled and operated by said bolt mechanism so that said switch is maintained closed by the same while the doors are locked closed by said bolt mechanism and so that said switch is opened when said bolt mechanism is adjusted to free said doors, and the other switch being independently controlled and operated by the other door so that it is maintained closed when said other door occupies its closed position and is opened when said other door is opened.

2,280,806
TYPEWRITING MACHINE
Bernard J. Dowd and Henry J. Hart, West Hartford, Conn., assignors to Royal Typewriter Company, Inc., New York, N. Y., a corporation of New York
Application September 1, 1939, Serial No. 293,124
15 Claims. (Cl. 197—186)



1. In a typewriting or like machine, a main frame; a carriage; means mounting the carriage for longitudinal movement on the frame including a track rail supported on the frame; means for maintaining the rail at a fixed level vertically with respect to the frame; and resilient means interposed between the rail and frame normally yieldably maintaining said rail in a neutral position and being yieldable in opposite directions longitudinally of said rail to permit floating of the rail in both said directions from said neutral position.

2,280,807
TYPEWRITING MACHINE
Bernard J. Dowd and Henry J. Hart, West Hartford, Conn., assignors to Royal Typewriter Company, Inc., New York, N. Y., a corporation of New York
Original application September 1, 1939, Serial No. 293,124. Divided and this application May 13, 1941, Serial No. 393,256
11 Claims. (Cl. 197—186)



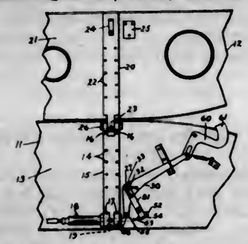
1. In a typewriter or like machine, a main frame; a carriage; means mounting the carriage for longitudinal movement on the frame including a horizontal track rail and means mounting the track rail on the frame for normal horizontal floating movements in opposite directions longitudinally of the rail; and means normally yieldably maintaining said rail in a neutral position and being yieldable in said opposite directions longitudinally of said rail to permit floating of the rail in both said directions from said neutral position, said means including abutments on said frame having surfaces transverse to said rail, abutments on said rail having surfaces also transverse to said rail and being cooperatively arranged respectively with the abutment surfaces on said frame, and opposed cushioning means interposed between the respectively cooperatively arranged frame abutment surfaces and rail abutment surfaces.

2,280,808
TYPEWRITING MACHINE
Bernard J. Dowd and Henry J. Hart, West Hartford, Conn., assignors to Royal Typewriter Company, Inc., New York, N. Y., a corporation of New York
Application March 14, 1941, Serial No. 383,442
21 Claims. (Cl. 197—186)



1. In a typewriting or like machine, a main frame; a carriage; means mounting the carriage for longitudinal movement on the frame and supporting the weight of the carriage including a track rail supported on the frame; resilient means interposed between the rail and frame and floatingly positioning the rail horizontally with respect to the frame; and means for modifying the resiliency characteristics of said resilient means.

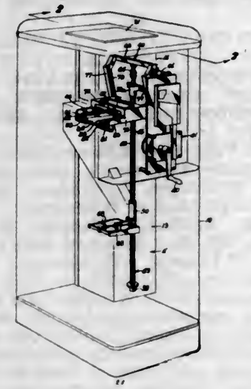
2,280,809
WING LOCKING PIN WARNING DEVICE
George D. Evans, Upper Darby, Pa.
Application May 8, 1940, Serial No. 334,140
5 Claims. (Cl. 116—124)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a folding wing locking pin warning device for airplanes comprising hinge members mounted on the stationary and the folding parts of the wing and comprising inter-engaging lugs and a locking pin to engage said lugs and connected to one of the lugs, a bell crank and arm pivotally mounted on one of said wing parts, a warning means pivotally mounted on one of said wing parts and slidably connected to said bell crank, engaging means mounted in said arm, one of said engaging means adapted for engagement with means in the bell crank, the other of said engaging means adapted for engagement with the locking pin, means carried by the other of said wing parts and adapted for engagement with one of the engaging means in said arm to force said one engaging means into engagement with the means in said bell crank when the lug on the folding part of the wing moves into inter-engaging position with the lugs on the stationary wing part, whereby the arm is locked to the bell crank.

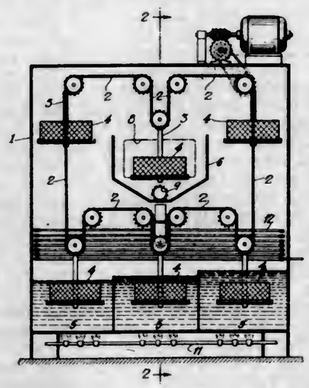
2,280,810
VENDING MACHINE
Robert F. Eddy, Emil W. Moeller, Ralph R. Wilcox, and Allan F. Eddy, South Pasadena, Calif.
Application July 12, 1939, Serial No. 283,946
13 Claims. (Cl. 312—36)

1. In a machine for dispensing refrigerated articles, the combination comprising a cabinet, a receptacle in said cabinet, a magazine removably supported in said receptacle, adapted to hold therein a stack of the articles to be dispensed, and having an opening at the bottom and one or more inwardly extending flanges bordering said opening and forming a seat for said stack, said magazine being adapted to be loaded outside said cabinet, and forming with the articles loaded therein a unit, which can be inserted as such in



said receptacle after removal of the empty magazine from said receptacle, a discharge chute, and means for feeding said stack upwardly step by step in said magazine to bring the articles successively in discharge position with respect to said chute, said means including a platform adapted to engage the bottom article of said package, and smaller than said magazine opening to permit free passage of said platform therethrough.

2,280,811
TREATING ARTICLES WITH VOLATILE SOLVENTS
Georg Edhofer and Georg Wolff, Munich, Germany, assignors to Dr. Alexander Wacker Ges. für elektrochemische Industrie m. b. H., Munich, Germany, a corporation
Application October 6, 1939, Serial No. 298,184
In Germany January 16, 1939
7 Claims. (Cl. 202—170)

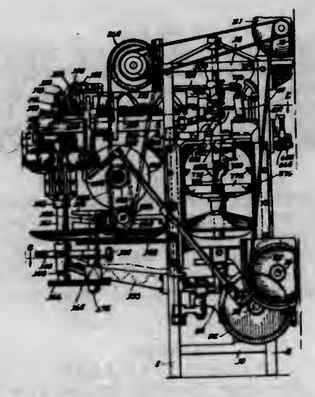


1. An apparatus for treating articles with volatile solvents comprising a treating chamber, a combined loading and unloading chamber having an opening in its upper part, said opening communicating with the interior of said treating chamber, a conveyor within said treating and loading chambers for moving the articles to be treated through said chambers and through said opening, a suction conduit connected to the lower part of said loading and unloading chamber, and a door in one side of and connecting said loading and unloading chamber with the outside and providing exit and entry for the articles to be treated.

2,280,812
PURIFICATION
Earl Thayer Ellis, Petersburg, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 1, 1939, Serial No. 276,801
11 Claims. (Cl. 210—203)

1. The process of removing materials causing discoloration of regenerated cellulose sheet from softener baths for regenerated cellulose webs which comprises filtering the contaminated softener bath through diatomaceous earth.

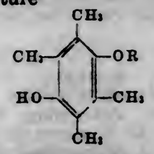
2,280,813
FRUIT TREATING APPARATUS
Raymond L. Ewald and Henry A. Skog, Olympia, Wash., assignors to Special Equipment Company, Portland, Oreg., a corporation of Oregon
Application January 17, 1938, Serial No. 185,332
48 Claims. (Cl. 146—33)



1. In an automatic machine for treating peaches, the combination of means forming an intermittently rotatable turret having spaced fruit holders adapted to receive and hold whole peaches, means for severing the peaches into halves, a second intermittently rotatable turret having an equal number of spaced holders, each adapted to receive and hold a half peach with its cut face exposed, means for conveying the two severed halves of the whole peach from a holder of the first turret in planes parallel to a plane which lies parallel to and intersects the axes of the turrets and spreader means for depositing each half in one of the half fruit holders with its longitudinal stem axis disposed radially of the second turret, and synchronized driving means for said turrets.

2,280,814
ETHERS OF DUROHYDROQUINONE AND PROCESS OF PREPARING SAME
Erhard Fernholz, Princeton, N. J., assignor to Merck & Co. Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application June 2, 1938, Serial No. 211,393. In Germany June 3, 1937
9 Claims. (Cl. 260—613)

1. Alkyl mono-ethers of durohydroquinone of the general structure



wherein R is a member selected from the group consisting of a higher alkyl radical, a higher alkenyl radical, and an alkyl radical substituted by an alicyclic ring.

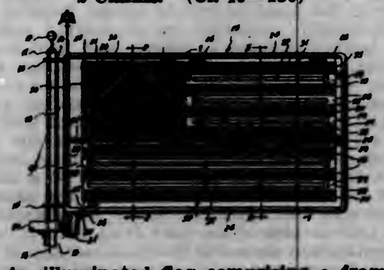
2,280,815
METHOD OF OBTAINING STEROLS
Erhard Fernholz, Princeton, N. J., assignor to E. R. Squibb & Sons, New York, N. Y., a corporation of New York
No Drawing. Application March 20, 1940, Serial No. 325,009
8 Claims. (Cl. 260—397.2)

1. The method of obtaining a sterol from a sterol-containing oil which comprises deriving a sterol-fatty-acid mixture from the oil, distilling off the fatty acids, and recovering the sterol from the residue.

2,280,816
ALKALOIDS OF SPECIES OF ERYTHRINA AND PROCESSES FOR THEIR PRODUCTION
Karl Folkers, Plainfield, and Frank Koniuszy, Rahway, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application May 12, 1939, Serial No. 273,366
13 Claims. (Cl. 260—236)

1. A substance selected from the group consisting of erythraline, a crystalline alkaloid obtainable from various botanically related species of Erythrina, and having a melting point of about 105–107° C. and $[\alpha]^{27}_{D}=+211.8°$ (absolute alcohol), and hydrohalides of such alkaloid.

2,280,817
ILLUMINATED FLAG
Arthur C. Freeman, Norfolk, Va., assignor of one-half to Joseph L. Young, Norfolk, Va.
Application January 23, 1941, Serial No. 375,681
2 Claims. (Cl. 40—130)

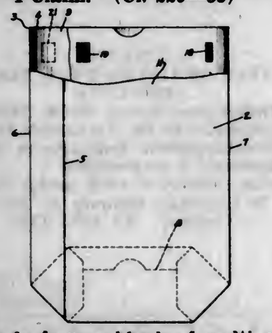


1. An illuminated flag comprising a frame, a vertical staff for rotatably supporting the frame, a sheet of material carried by the frame providing a flag sight and having elongated slots extending through colored portions of the flag sight, gaseous tube illuminating means mounted in the slots for projecting rays of light on both sides of the flag sight, an illuminated field mounted in one corner of the flag sight including a casing having translucent walls provided with star-shaped windows, means for illuminating the flag sight field, and means for supplying current to the flag sight and field illuminating means.

2,280,818
PROCESS FOR THE CATALYTIC PRODUCTION OF OLEFIN-SULPHUR DIOXIDE COMPOUNDS OF HIGH MOLECULAR WEIGHT
Frederick E. Frey, Robert Dewey Snow, and Walter A. Schulze, Bartlesville, Okla., assignors to Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware
No Drawing. Application January 26, 1934, Serial No. 708,520. Renewed June 8, 1938
17 Claims. (Cl. 260—94)

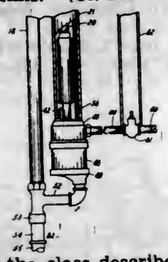
1. The process of producing high molecular weight heteropolymers of olefins and sulphur dioxide which comprises conducting the reaction in the absence of actinic light in the presence of an active-oxygen-containing substance selected from the group consisting of nitrates other than silver nitrate, nitrites, perchlorates, chlorates, persulphates and ozonides.

2,280,819
MULTIPLY PAPER BAG
William J. Geimer, Minneapolis, Minn., assignor to Bemis Bro. Bag Co., Minneapolis, Minn., a corporation of Missouri
Application March 13, 1939, Serial No. 261,429
1 Claim. (Cl. 229—55)



A bag made from a blank of multi-ply material, said blank being folded upon itself and having its opposed edges secured together to provide a longitudinally extending seam and whereby the blank will form a tube, one end of said tube being closed to provide the bottom of the bag and said tube being flattened to provide two walls disposed in flatwise relation with the longitudinally extending seam disposed adjacent to one of the side edges of the flattened bag body, a suitable paste applied in small areas between the plies at the seam side of the flattened bag, relatively smaller pasted areas at the opposite side of the bag, said longitudinally extending seam and pasted areas being so located that when the bag is expanded to receive a charge, said seam and one of said pasted areas will be disposed in one end wall of the bag body and two of said pasted areas in the side walls of the bag body adjacent to said seamed end wall, and the relatively smaller pasted areas being located in the opposed end wall of the expanded bag body, and all of said pasted areas and the seam being so arranged that none of the fold lines formed by folding the bag top walls into closing relation will intersect any of said pasted areas, thereby facilitating the operation of folding the bag top walls into closing relation and whereby the perimeter of the closed bag top will be symmetrical in appearance.

2,280,820
ANTIFREEZE, ANTIPOLLUTION FRESH WATER CONNECTION
Robert C. Gowdy, Cincinnati, Ohio, assignor to The Murdock Manufacturing and Supply Company, Cincinnati, Ohio, a corporation of Ohio
Application August 31, 1939, Serial No. 292,854
7 Claims. (Cl. 137—78)



1. A device of the class described for dispensing potable water from a potable water supply and for preventing contamination thereof, comprising a water supply nozzle having connection with a water supply normally under pressure, a chambered valve carrying supply line for receiving water at its lower end from said nozzle and for discharging water at its upper end at an elevation above ground level, and comprising a valve for cooperation with said nozzle for controlling flow of water from said nozzle to the upper end of said water supply line, and means for retaining said valve on said nozzle and adapted for movement relative to and independent of said valve, whereby in the absence of water under pressure in said nozzle the valve may yieldingly retain closing engagement with and on said nozzle, said last mentioned means including means for moving said retaining means relative to said valve and said nozzle, whereby the valve may be released for independent movement responsive to the influence of water under pressure in said nozzle and may be returned to sealing engagement with and on the nozzle, means for draining the chamber and water supply line when the valve is closed and comprising a conduit connected with said chamber, a water trap in said conduit having an overflow wall and means for providing an air pocket having connection with the overflow wall for drawing fluid passing over said overflow wall and resisting return movement of water over said overflow wall from said air pocket, and means communicating with said air pocket at the lower portion thereof for relieving tendency toward low pressure conditions in said air pocket.

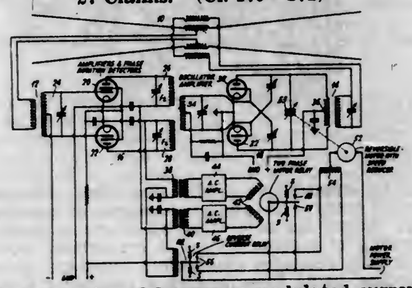
2,280,821
NUT
Orrin D. Gray, Chicago, Ill.
Application March 27, 1939, Serial No. 264,310
6 Claims. (Cl. 10—86)

1. The method of producing a nut which comprises forming a nut body having an axial bore therein from steel of low carbon content, rolling a flat blank of relatively higher carbon steel into an insert of tubular form and producing a butt joint thereby, introducing the tubular insert into the bore leaving one end of the insert projecting outwardly from the body, concurrently welding the joint of the insert and the contacting portions



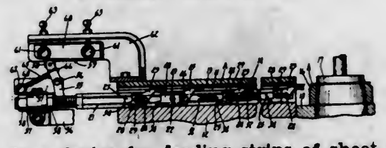
of the insert and body, forming threads interiorly of the insert coextensively therewith, distorting the free threaded end of the insert to out-of-round configuration, and heat treating the unit this formed to impart resiliency to the high carbon steel insert.

2,280,822
FREQUENCY MODULATED RADIO RELAYING SYSTEM
Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application July 1, 1938, Serial No. 216,872
27 Claims. (Cl. 179—171)



1. A repeater of frequency modulated currents comprising an oscillator operating substantially at the frequency of the modulated current, current amplifying means excited by said currents, and means controlled by said amplifying means for holding the oscillator frequency of operation equal to the frequency of the repeated currents.

2,280,823
FEEDING DEVICE
John Hansen, Seattle, Wash., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application May 8, 1940, Serial No. 334,062
4 Claims. (Cl. 271—55)



1. In a device for feeding strips of sheet material in a continuous procession along a predetermined path of travel to position successive portions of the strip at a working station, the combination of a feed bar reciprocable through a feeding stroke and a return stroke, a plurality of feed dogs spaced at equal intervals along said feed bar for successively engaging behind the feeding edge of the strip to advance the strip in a step-by-step manner, and elements operable with and freely mounted on said feed bar when it moves through a feeding stroke for moving a greater distance than said feed dogs for engaging the rear of and advancing said strip through a greater distance than the stroke of the feed

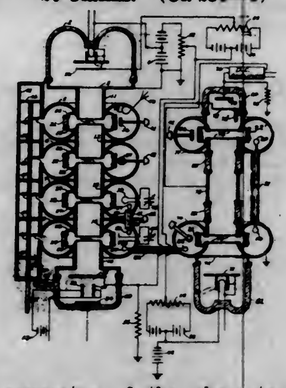
bar as the strip initially enters the working station, whereby to compensate for the difference in the positions of the end portions of succeeding adjacent strips.

2,280,824

RADIO TRANSMISSION AND RECEPTION

William W. Hansen and Russell H. Varian, Stanford University, Calif., assignors to Board of Trustees of the Leland Stanford Junior University, Stanford University, Calif.

Application April 14, 1938, Serial No. 201,898
20 Claims. (Cl. 250—6)



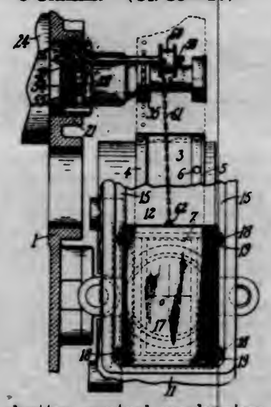
1. In apparatus of the character described for the control of radio oscillations, in combination, means for producing an electron beam, a plurality of resonant circuits comprising hollow internally resonant conducting members having standing fields therein, means providing a passage between said members that is free of the fields existing in the latter, said first named means acting to pass said beam through said hollow members via said passage for electrically interconnecting said circuits, and means for adjusting the frequency of said circuits.

2,280,825

COMBINED FIRE SHUTTER AUTOMATIC CONTROL AND FILM MOVEMENT STABILIZING DEVICE

Arthur J. Holman, East Orange, N. J.

Application November 22, 1938, Serial No. 241,840
8 Claims. (Cl. 88—17)



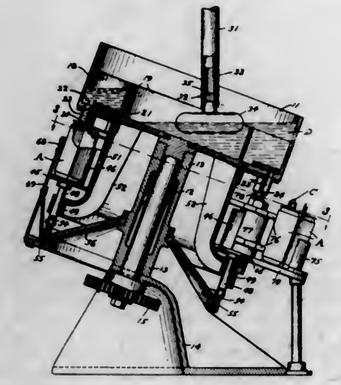
1. A fire shutter control mechanism comprising a supporting structure, a control shaft rotatably mounted therein, a film actuated sprocket fixed on said control shaft, a centrifugal mechanism mounted on said control shaft, means associated with said centrifugal mechanism for operating a fire shutter, a friction drum fixed on said control shaft, and adjustable means independent of said centrifugal mechanism whereby increased drag may be applied through said friction drum to said control shaft for the double purpose of stabilizing the operation of said film actuated sprocket and decelerating said control shaft more quickly should a break occur in the film strip actuating said sprocket.

2,280,826

FILLING MACHINE

John M. Hothersall, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application June 7, 1939, Serial No. 277,915
7 Claims. (Cl. 226—96)



1. A machine for filling liquids into containers, comprising in combination, a rotatable inclined tank for holding a liquid to be filled, a liquid measuring chamber adjacent the outer periphery of said tank and movable with the tank for measuring out and retaining a charge of the liquid in the tank as the latter rotates, said chamber including an inclined floor having an outlet port therein through which the measured charge of liquid is dispensed into the container, and a valve member engaging and freely movable on the inclined floor of said chamber, said valve member having sliding gravital movement in opposite directions on the chamber floor within the confines of the chamber walls as said chamber rotates on the inclined axis of the tank, for closing and opening said outlet port.

2,280,827

METHOD OF FREEZING AND PRESERVING FOODSTUFFS

John Charles Hoveman, Paris, France, assignor to Dewey and Almy Chemical Company, Cambridge, Mass., a corporation of Massachusetts

No Drawing. Application October 1, 1936, Serial No. 103,532. In Germany October 4, 1935
2 Claims. (Cl. 99—192)

1. The process of preserving meat and other foodstuffs by refrigeration which comprises placing the foodstuff in a thin, flexible and impervious casing of rubber material, bringing the casing into intimate contact with the foodstuff by removing the air from within the casing, sealing the casing hermetically, freezing the enclosed meat and storing it under freezing conditions which would otherwise permit evaporation of moisture from the foodstuff while sealed in the casing for a time long enough to cause deterioration of similar unprotected foodstuff.

2. The process of preserving meat and other foodstuffs by refrigeration which comprises placing the foodstuff in a thin, flexible and impervious casing of rubber material bringing the casing into intimate contact with the foodstuff by removing the air from within the casing, sealing the casing hermetically, freezing the enclosed meat and storing it under freezing conditions which would otherwise permit evaporation of moisture from the foodstuff while sealed in the casing for a time long enough to cause deterioration of similar unprotected foodstuff and thawing the foodstuff while maintaining the casing as a covering thereon.

2,280,828

PROCESS FOR THE MANUFACTURE OF COMPOUNDS OF THE CYCLOPENTANOPOLYHYDROPHENANTHRENE SERIES

Hans Herloff Inhoffen, Berlin-Wilmersdorf, Germany, assignor to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey

No Drawing. Application September 29, 1937, Serial No. 166,453. In Germany September 29, 1936
43 Claims. (Cl. 260—397.2)

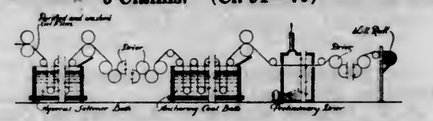
1. A process for the manufacture of unsaturated compounds of the cyclopentanopolyhydrophenanthrene series, comprising subjecting a 10-methyl cyclopentanopolyhydrophenanthrene compound selected from the group consisting of (1) 3-ketones of steroids doubly unsaturated in ring A and their enol derivatives; (2) 3-ketones of steroids singly unsaturated in ring A and their enol derivatives, which in addition possess in ring A a group capable of being split off with formation of a further double bond; (3) 3-ketones of steroids singly unsaturated in ring A between the C-atoms 1 and 2 and their enol derivatives; (4) 3-hydroxy compounds of steroids doubly unsaturated in ring A and their derivatives in which a group convertible with the aid of hydrolysis into hydroxyl is attached to the 3-carbon atom; (5) 3-hydroxy compounds of steroids singly unsaturated in ring A, and their derivatives, which in addition possess in ring A a group capable of being split off with formation of a further double bond, said derivatives having a group convertible with the aid of hydrolysis into hydroxyl attached to the 3-position; (6) 3-ketones singly unsaturated in ring A and their enol derivatives, which possess in ring B at least one double bond, and 3-ketones singly unsaturated in ring A and their enol derivatives, which possess in ring B a group capable of being split off with formation of a double bond; (7) saturated 2,3- and 3,4-diketones of steroids and their enol derivatives; (8) 2,3- and 3,4-diketones of steroids singly unsaturated in one of the rings A and B and their enol derivatives; (9) saturated 3-ketones of steroids which possess, on the 2-carbon atom a group capable of being split off with formation of a double bond; to a thermal treatment, whereby the methyl group is removed from the 10-position and a double bond is introduced into ring A.

2,280,829

COATED CELLULOSIC FILM

Walter John Jebens, Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application September 1, 1939, Serial No. 293,056
6 Claims. (Cl. 91—70)



6. The process which comprises coating regenerated cellulose sheet with a methylol urea ether, polymerizing the coated material, and thereafter moistureproofing the sheet material by applying a moistureproofing coating composition to the polymerized ether material.

2,280,830

COLLOIDAL DISPERSION

Joseph W. Johnson, Middleton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

No Drawing. Application September 28, 1940, Serial No. 358,941
14 Claims. (Cl. 252—308)

1. The method of reducing the interfacial tension between two phases of materials forming a dispersion which comprises associating with said materials an alkanol higher aliphatic acid amide, and a higher aliphatic aicd ester of alkanolamine hydrochloride, said amide and ester being present in the ratio of from 10 to 90 mol % of the amide to 90 to 10 mol % of the ester.

2,280,831

LOWER ALKYL ETHERS OF VITAMIN B_6 AND PROCESS OF PREPARING THE SAME

John C. Keresztesy, Rahway, and Joseph R. Stevens, Plainfield, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application December 23, 1938, Serial No. 247,479
14 Claims. (Cl. 260—297)

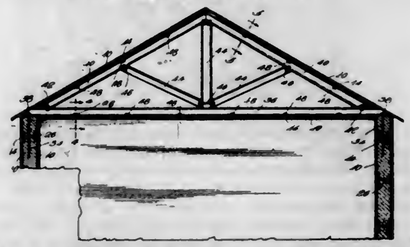
1. A compound selected from the group consisting of the lower alkyl ethers of vitamin B_6, and the hydrohalides of the lower alkyl ethers of vitamin B_6.

2,280,832

BUILDING

Alvin C. Ketcham, Chevy Chase, Md.

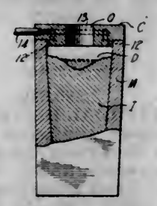
Application January 2, 1940, Serial No. 312,152
5 Claims. (Cl. 72—1)



2. A building of the character described, comprising pre-formed, standardized units forming side wall and partition structure, locking bars positioned in locking plates of opposed wall units

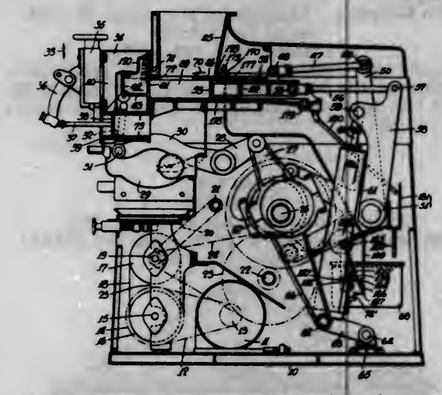
connecting these units, pre-formed units forming gable-ends, ceiling and roofing portions, pre-formed ceiling joist and rafters and means for connecting them together, means for connecting the ceiling joist to the side walls, and means for locking the ceiling and roofing units to said joist and rafters, respectively.

2,280,833
TREATMENT OF CAST METALS
Augustus B. Kinzel, Douglaston, Long Island, N. Y., assignor to Electro Metallurgical Company, a corporation of West Virginia
Application August 30, 1939, Serial No. 292,548
6 Claims. (Cl. 22—216)



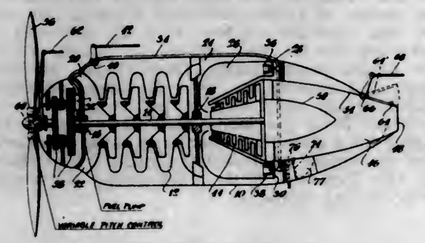
4. In a method of treating a cast body of iron or steel having a molten pool of metal in at least a portion of said body, the steps which comprise retarding the cooling and solidifying of such pool by impinging a plurality of streams of oxygen on the surface thereof adjacent to the periphery thereof in the presence of finely divided silicon, and cooling and solidifying such pool.

2,280,834
DOUGH DIVIDER MECHANISM
Edward H. Kocher, Boonton, N. J., assignor to Auto Research Corporation, a corporation of Delaware
Application August 3, 1940, Serial No. 350,645
5 Claims. (Cl. 107—15)



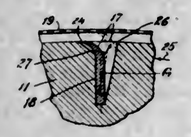
1. In a dough divider machine of the type having a vertically reciprocatory division box and a plurality of piston pockets carried by said division box, a reservoir carried in said division box, a reciprocatory pump positioned in said reservoir, a lever for actuating said pump, a fixed adjustable device upon said machine to reciprocate said lever and cause reciprocation of the pump upon each reciprocation of said divider box, a junction positioned in said divider box fed from said pump and a plurality of outlet connections to the bearing surface of the divider box and to the piston pockets of the divider box, each provided with a highly restricted outlet flow metering fitting.

2,280,835
AIRCRAFT
Alf Lysholm, Stockholm, Sweden, assignor, by mesne assignments, to Jarvis C. Marble, Leslie M. Merrill, and Percy H. Batten, as trustees
Application April 20, 1937, Serial No. 137,969
In Great Britain April 21, 1936
12 Claims. (Cl. 60—35.6)



1. A propulsion unit for aircraft including gas turbine means comprising a turbine providing propelling power, compressor means including a compressor driven by said turbine and always operating therewith to compress air for use in the motive fluid delivered to said turbine means, combustion chamber means to which the compressed air is supplied and from which motive fluid is delivered to said turbine means, means for supplying fuel to said combustion chamber means to produce said motive fluid, governing means for controlling at will the ratio of the power input to said compressor means to the power available for propulsion, and means for varying the fuel supply to the system independently of the main fuel control when the power ratio is altered by said governing means.

2,280,836
BLADE SUPPORT FOR SHAVING DEVICES
Frederick E. Moskovics, Greenwich, Conn., and Victor R. Abrams, Maplewood, N. J., assignors, by direct and mesne assignments, to Eleanor U. Andrews, Greenwich, Conn.
Application March 4, 1940, Serial No. 322,050
5 Claims. (Cl. 30—43)

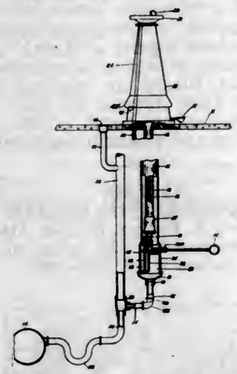


1. In a shaving device, the combination of an apertured shear plate, a rotary blade support behind said plate having a substantially radial slot of generally V-shaped transverse cross-section, a blade loosely mounted in said slot having a cutting edge directed in the direction of rotation of said support and adapted to cooperate with the under side of said shear plate to sever hairs projected through the apertures therein, said blade being tiltable in said slot in a direction opposite to the direction of movement thereof to decrease the angle between the edge of said blade and the under side of said shear plate during rotation of said support.

2,280,837
ERYTHRINA ALKALOID AND ITS PRODUCTION
Randolph T. Major and Karl Folkers, Plainfield, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Continuation of application Serial No. 154,755, July 21, 1937. This application January 20, 1940, Serial No. 314,865
16 Claims. (Cl. 260—236)

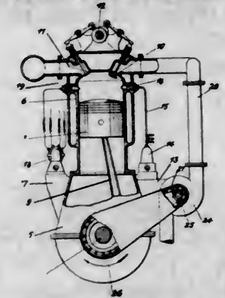
1. A tetrahydrogenated derivative of the Erythrina alkaloid having the empirical formula $C_{16}H_{19}NO_3$, and which exhibits the physiological action of curare.

2,280,838
ANTIFREEZE DRINKING FOUNTAIN
Robert J. Murdock, Thomas E. Bart, Frank Zugelter, and John W. Kinney, Jr., Cincinnati, Ohio, assignors to The Murdock Manufacturing & Supply Company, Cincinnati, Ohio, a corporation of Ohio
Application December 13, 1938, Serial No. 245,438
12 Claims. (Cl. 299—13)



7. In a device of the class described the combination of a water supply nozzle, a water supply line having a chamber at its lower end for receiving water from said nozzle and comprising a valve for cooperation with said nozzle for controlling flow of water from the nozzle, means for operating said valve relative to said nozzle and means gravitationally draining the chamber and said water supply line when the valve is opertive with said nozzle for preventing flow of water from said nozzle, said last mentioned means comprising a reservoir and a connection between the chamber and the reservoir for draining said chamber into said reservoir and discharging into said reservoir near the bottom of said reservoir, said reservoir having a capacity as large as the volume of said chamber and said connection therefrom to said reservoir, said reservoir being sealed except for an overflow port located near its upper end and except for said drain connection from said chamber, means for providing an air pocket communicating with the overflow port of the reservoir, said pocket being of a cubic content larger than said reservoir and having connection with the overflow port of said reservoir, a drain connection at the lower end of said air pocket, a vent connection to the atmosphere communicating with the drain connection at the lower portion of the air pocket, said vent having a cross section as great as the cross-section of the drain connection at the lower end of the air pocket, said vent having communication with the atmosphere at a lower elevation than the upper end of the water supply line, and a fluid pervious, vermin impervious gate controlling access to said overflow portion of the reservoir.

2,280,839
INTERNAL COMBUSTION ENGINE
Fritz Nallinger, Stuttgart, Germany, assignor to Daimler-Benz Aktiengesellschaft, Untertürkheim-Stuttgart, Germany, a company of Germany
Application January 28, 1938, Serial No. 187,394
In Germany January 30, 1937
4 Claims. (Cl. 123—32)



2. In an internal combustion engine, in combination, a cylinder, a piston in said cylinder, inlet and exhaust passages in said cylinder, means for opening and closing said exhaust passage, means for supplying compressed air to said cylinder through said inlet passage before closure of said exhaust passage and the top dead-center position of said piston, the overlap between the supplying of compressed air to the cylinder and the closure of the exhaust passage covering a range of 40° to 140° of crank angle, thereby expelling any residual gases before the down stroke of the piston, means for injecting fuel into said cylinder substantially at the moment of closure of said exhaust passage, means for closing said inlet passage, and means for igniting the fuel in said cylinder.

2,280,840
WIRE SPRING FOR CUSHIONED SEATS OF UPHOLSTERED FURNITURE
William H. Neely, Cleveland, Ohio, assignor, by direct and mesne assignments, to John C. Lincoln, Scottsdale, Ariz.
Application February 14, 1939, Serial No. 256,277
10 Claims. (Cl. 155—179)



10. As an article of manufacture and sale a cushioned seat for automobiles comprising a frame and a plurality of springs bridging said frame and rigidly secured thereto crosswise thereof, each of said springs embodying a horizontally corrugated, axially yielding seating portion, an integral rearwardly and downwardly extended yielding lever arm extending from one end of said seating portion, an integral upwardly and rearwardly inclined short lever extending from the other end of said seating portion, and

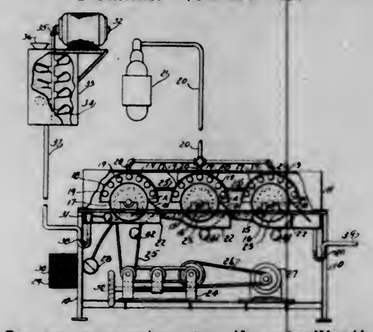
attachment means integrally extended from the free ends of said levers, the upward and rearward arrangement of said short lever preventing undesired stiff areas being upwardly extended near said other end of said seating portion when a load is placed on the spring.

2,280,841

APPARATUS FOR THE STERILIZATION OF LIQUIDS WITHOUT THE USE OF HEAT OR CHEMICALS

Hubert S. Ogden, Los Angeles, Calif., assignor to Robert M. Vaillancourt, Pasadena, Calif.

Application March 13, 1940, Serial No. 323,772
4 Claims. (Cl. 250—49)



1. In an apparatus for the sterilization of liquids without the use of heat or chemicals, wherein a liquid is passed through an apparatus comprising a source of ultra violet rays the said rays being directed to the upper peripheral surface of a closed cylinder, the lower peripheral surface of the cylinder held in contact with the liquid, a pan holding the liquid beneath the cylinder, to the end that foaming be eliminated, the said pan having a gently sloping portion immediately beneath the point where liquid is admitted to the pan and a gently curved surface leading from the lower end of the gently sloping portion to the bottom of the aforesaid pan.

2,280,842

METHOD OF ISOLATING FATTY ACIDS FROM TALL OIL

Anthony F. Oliver and Robert C. Palmer, Pensacola, Fla., assignors to Newport Industries, Inc., Pensacola, Fla., a corporation of Delaware

No Drawing. Application November 15, 1939, Serial No. 304,580
12 Claims. (Cl. 260—97.5)

10. A method of preparing stearic acid from tall oil comprising desulfurizing the tall oil, hydrogenating the tall oil to effect substantially complete saturation of the fatty acids contained therein and separating stearic acid from the hydrogenated tall oil.

2,280,843

METHOD OF CONCENTRATING THE STEROL CONTENT OF TALL OIL

Anthony F. Oliver and Robert C. Palmer, Pensacola, Fla., assignors to Newport Industries, Inc., Pensacola, Fla., a corporation of Delaware

No Drawing. Application September 30, 1940, Serial No. 359,986
12 Claims. (Cl. 260—97.5)

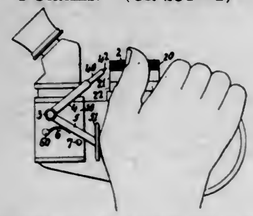
1. A method of concentrating the plant sterol content of tall oil which comprises dissolving tall oil in a liquid hydrocarbon, filtering the resulting solution through a stationary mass of an adsorbent medium, introducing a liquid hydrocarbon into said mass to displace said solution and washing said mass with an organic solvent soluble in water to an extent at least equal to 4 per cent and also miscible with said latter hydrocarbon to recover a solution of a tall oil fraction rich in sterols.

2,280,844

INSTRUMENTS MARKING DEVICE FOR NAVIGATING

Robert Humphrey Page, Montreal, Quebec, Canada, assignor to Bendix Aviation Corporation, Bendix, N. J., a corporation of Delaware

Application February 24, 1941, Serial No. 380,190
4 Claims. (Cl. 234—1)



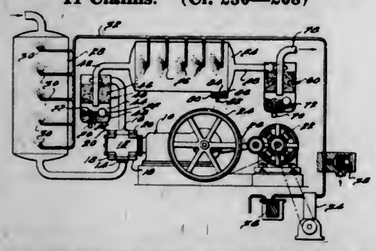
1. In combination, a navigating instrument of the class described having a thumb wheel the peripheral portion of which is provided with a marking surface, means for marking said surface, and operating means for said marking means extending within reach of the thumb of the hand holding and adjusting said instrument.

2,280,845

AIR COMPRESSOR SYSTEM

Humphrey F. Parker, Detroit, Mich.

Application January 29, 1938, Serial No. 187,704
11 Claims. (Cl. 230—208)



1. A multistage compressor system comprising means for effecting first and second stages of compression, means for mixing an atomized liquid with the gas to be compressed prior to the completion of the first stage of the compression of said gas, means for eliminating said atomized liquid after the completion of said first stage, a second means for mixing an atomized liquid with said gas after said first elimination, a second elimination means effective after said second mixing operation and prior to the commencement of the second stage of compression, means for effecting a third mixing operation prior to the completion of said second stage of compression, and a third elimination means effective subsequent to the completion of said second stage of compression.

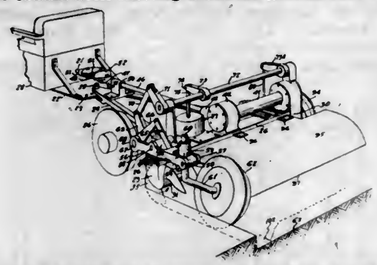
2,280,846

ROTARY PLOW

Miles H. Pitcher, Portland, Oreg.

Application May 25, 1940, Serial No. 337,242
4 Claims. (Cl. 97—41)

1. In a plow of the class described a three wheeled vehicle having two wheels in tandem and one wheel transversely opposite and intermediate the tandem wheels, a frame supported at one end behind said intermediate wheel and at the other end by means of a rockable beam disposed between said tandem wheels, crank arms attached to the ends of said beam, the rearmost crank arm having a castor action and forming the axle for the rearmost tandem wheel, the foremost crank arm having the foremost tandem wheel attached thereto and means for rocking said crank arms for the purpose of adjusting the height of said frame above the ground, a helical plow screw mounted under said transverse frame and means for driving said plow screw from the power take-off shaft of the tractor.

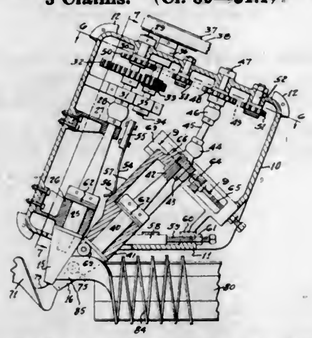


2,280,847

APPARATUS FOR FORMING HELICAL PLOW SCREWS

Miles H. Pitcher, Portland, Oreg.

Application July 12, 1940, Serial No. 345,128
3 Claims. (Cl. 80—31.1)



1. An apparatus of the class described having in combination three tapering driven rolls, the axes of which converge normally toward a common point, the axes of two of said rolls being fixed while the axis of the third roll is adjustable in a plane normal to and intersecting a plane passing through the axes of said fixed rolls and guide rolls associated with said adjustable tapering roll constituting guides for work passing between said tapering rolls for the purpose of controlling the angular position of the work as it passes between said tapering rolls.

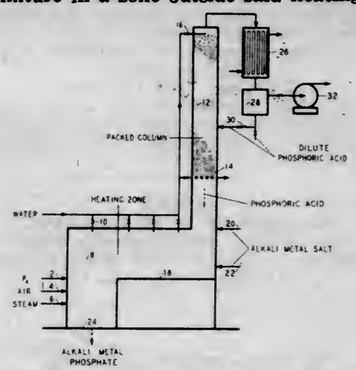
2,280,848

MAKING ALKALI METAL PHOSPHATES

Gordon R. Pole, near Sheffield, Ala.

Application December 15, 1939, Serial No. 309,372
5 Claims. (Cl. 23—106)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

5. Process for making an alkali metal phosphate from an alkali metal compound, reactive with phosphoric acid to form an alkali metal phosphate, and phosphoric acid, which comprises forming a hot gaseous mixture containing metaphosphoric acid in a heating zone in which the lowest temperature is above the melting point of the alkali metal phosphate subsequently formed, admitting said alkali metal compound to said heating zone, separating phosphoric acid and vaporized alkali metal compound from said gaseous mixture in a zone outside said heating zone



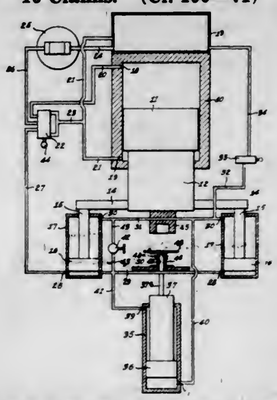
maintained under conditions adapted to simultaneously separate liquid phosphoric acid and the vaporized alkali metal compound therefrom, returning the phosphoric acid and alkali metal compound so separated to said heating zone in contact with said alkali metal compound admitted thereto, and maintaining the temperature in the heating zone so that a substantial portion of the alkali metal compound and the phosphoric acid in the mixture react to form the fused alkali metal phosphate.

2,280,849

PRESS WITH EJECTOR RAM OPERATED WITHOUT AUXILIARY PRESSURE SOURCE

Paul C. Pocock, Marion, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del., a corporation of Delaware

Application June 7, 1938, Serial No. 212,327
10 Claims. (Cl. 100—71)



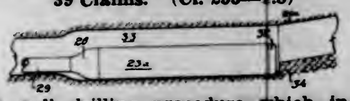
1. In a hydraulic press circuit, a main plunger, a push-back plunger operatively connected with said main plunger and adapted to effect the retraction stroke thereof, an ejector plunger operable during the retraction stroke of the main plunger by fluid expelled by said push-back

plunger, a source of pressure fluid, means for selectively directing pressure fluid from said source to said main plunger or said push-back plunger, and a hydraulic circuit interconnecting said plungers.

2,280,850
INSECT REPELLENT CONTAINING NITRILES
Anderson W. Ralston and John P. Barrett, Chicago, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application September 5, 1939, Serial No. 293,521
5 Claims. (Cl. 167—22)

1. An insect repellent having as an essential active constituent a straight chain aliphatic nitrile having ten to fourteen carbon atoms.

2,280,851
METHOD OF WELL DRILLING
Leo Ranney, McConnelsville, Ohio
Application January 12, 1939, Serial No. 250,569
39 Claims. (Cl. 255—1.8)

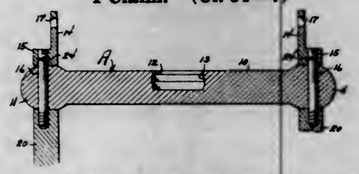


1. A well drilling procedure which includes drilling in a substantially horizontal direction while supporting the drilling tool on the side face of the drilled hole, and while continuously controlling the direction of drilling so that successive length units of the drilled hole extend in a substantially horizontal direction but each has a relationship to the horizontal different from that of a similar unit immediately adjacent thereto.

2,280,852
COATED ABRASIVE ARTICLE
Norman P. Robie, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
No Drawing. Application February 24, 1938, Serial No. 192,391
7 Claims. (Cl. 51—303)

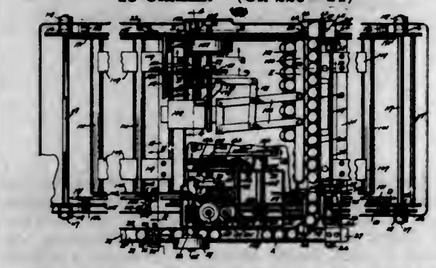
1. As a novel article of manufacture, a coated abrasive article characterized by the abrasive grain being secured to the backing by an adhesive comprising a stable cellulose ester of a carboxylic acid soluble in a non-acid aqueous medium.

2,280,853
BRIDLE BIT
Adolph E. Rody, Elmwood, Ontario, Canada
Application July 15, 1940, Serial No. 345,619
1 Claim. (Cl. 54—7)



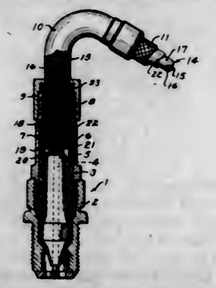
A bit of the kind described, comprising a mouth bar having a cavity uppermost therein, bridle strap rings carried by the ends of the mouth bar and having slots in their upper ends on the same side with the cavity in the mouth bar adapted to receive the cheek straps of a bridle, and balancing weights carried by said rings on the opposite sides from the cheek strap slots, whereby the mouth bar is normally held with the cavity in an uppermost position.

2,280,854
TRAY LOADING MACHINE
Walter E. Rooney, Bellingham, Wash., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application January 4, 1939, Serial No. 249,303
13 Claims. (Cl. 226—14)



12. A machine for loading cans in staggered rows in trays, which comprises in combination: mechanism for advancing trays along a predetermined path of travel, instrumentalities for placing rows of a definite number of cans into said trays, and means for effecting relative movement between a said tray and said instrumentalities transversely of the path of travel of the trays to insure staggering said rows of cans so that the cans will nest together in the trays.

2,280,855
SHIELDED SPARK PLUG CABLE TERMINAL
John J. Rose, Dayton, Ohio
Application October 15, 1941, Serial No. 415,072
7 Claims. (Cl. 123—169)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



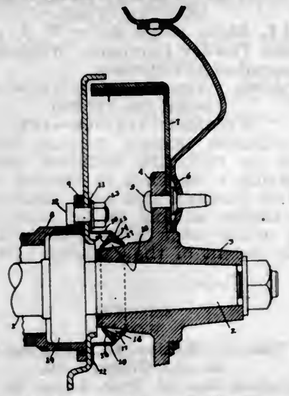
1. A moisture proof terminal construction for ignition cables of the character used in conjunction with shielded spark plugs having a grounded shielding sleeve projecting from the plug body; comprising an annular thimble of a rigid insulating material having a substantially closed lower end provided with a contact adapted to engage the central electrode of the spark plug, said contact being adapted to be electrically connected to the cable conductor, a resilient sealing washer seated on the bottom of said thimble and adapted to tightly encompass the conductor of said cable and to abut the end face of the insulation and protective covering thereof in sealing relation, and a tubular sleeve of rubber or like material surrounding said cable, the end face of said sleeve also engaging said washer in sealing relation and the said tubular shield tightly engaging the interior walls of said thimble in sealing relation, said tubular sleeve extending along said cable from the said thimble a distance sufficient to prevent contact between said cable and any of the shielding elements of the associated spark plug.

2,280,856
BENZENE SULPHONAMIDYL COMPOUNDS OF SULPHANILAMIDE, SALTS AND DERIVATIVES THEREOF, AND METHODS OF PRODUCTION
Sanford M. Rosenthal and Hugo Bauer, Washington, D. C., assignors to Government of the United States of America, represented by the Secretary of the Treasury
No Drawing. Application June 25, 1937, Serial No. 150,424
12 Claims. (Cl. 260—397.7)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. The method of preparing therapeutically active benzene sulphonamidyl compounds of sulphanilamide which comprises condensing acetanilide para-sulphochloride with a sulphanilamide of the group consisting of sulphanilamide and its N^1-alkylol-, N^1-carboxyalkyl-, and N^1-phenylsulphonamide substitution products, and deacetylating the therapeutically inactive condensation product to produce a therapeutically active benzene sulphonamidyl compound of sulphanilamide.

3. A product of the group consisting of the N^4-sodium methylene sulphinate-, the N^4-benzyl-, and the N^4-carboxybenzyl-derivatives of N^4-[sulphanilyl]-sulphanilamide.

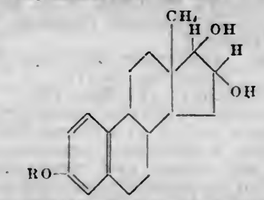
2,280,857
OIL SEAL
James Webb Saffold, Cleveland, Ohio
Application August 17, 1939, Serial No. 290,641
1 Claim. (Cl. 286—5)



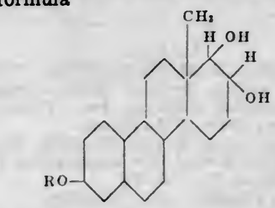
The combination with relatively rotatable members, of a unitary oil seal cooperating therewith, said seal comprising a metal holder provided with an annular flange, a one-piece, annular member formed of synthetic rubber having a thickened portion, said flange being embedded in and bonded to said thickened portion to secure said annular member against rotation relative to said flange, and being provided with tapered spaced flanges diverging toward and engaging said rotatable member and terminating in relatively sharp edges, said annular member being of less initial diameter at said edges than the diameter of the rotatable member at points respectively engaged by said edges whereby said flange edges engage said member under tension with a pressure dependent solely upon the resiliency of the material and forming with said rotatable member a relatively deep, annular grease chamber about said member, the tapered flanges engaging said rotatable member by a line contact and presenting surfaces converging away from the rotatable member to force grease from the edges of the flanges back into said grease chamber by centrifugal force as the rotatable member rotates.

2,280,858
ACYL DERIVATIVES OF GERMINAL GLAND HORMONE PREPARATIONS OF HIGH ACTIVITY, AND A METHOD OF PRODUCING THE SAME
Walter Schoeller, Berlin-Westend, and Friedrich Hildebrandt, Hohen Neuendorf, near Berlin, Germany, and Erwin Schwenk, Montclair, N. J., assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey
No Drawing. Original application February 21, 1935, Serial No. 7,604. Divided and this application October 9, 1936, Serial No. 104,848. In Germany February 22, 1934
8 Claims. (Cl. 260—397.5)

1. A method of producing derivatives of germinal gland hormone preparations, comprising subjecting a follicle hormone hydrate derivative of the following structural formula



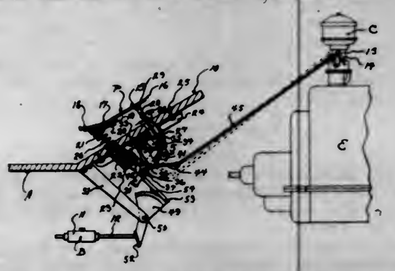
wherein R represents an acyl group, to the action of a reducing agent capable of hydrogenating the benzene nucleus in the molecule of said starting material into a hydro-aromatic nucleus, stopping the hydrogenation when the benzene nucleus has been hydrogenated, and recovering a compound of the formula



2,280,859
ACCELERATOR AND BRAKE CONTROL
John L. Siesennop, Milwaukee, Wis.
Application June 21, 1940, Serial No. 341,603
4 Claims. (Cl. 192—3)

1. The combination with an automobile having a brake mechanism and an engine having a carburetor provided with a throttle valve and an operating crank: a treadle mechanism including a hingedly connected heel and toe plate, means for actuating the brake mechanism from the heel plate, including a push rod, a swinging frame, means for operating the throttle valve from the toe plate, including an accelerator push rod piv-

otally connected to the toe plate, and a swinging crank lever disposed below the accelerator push rod, a guide on the swinging frame for the accelerator push rod, a cam track on the brake push rod, a roller on the swinging frame, and resilient means normally holding the forward end of the frame in a raised position with the



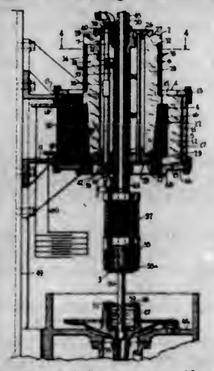
frame back toward the brake push rod, and the accelerator push rod on said lever, and the roller against the brake push rod, whereby upon downward movement of the brake push rod, the cam track will force the roller and swinging frame forward and the accelerator push rod off the lever.

2,280,860
COATING COMPOSITION AND METHOD OF MAKING SAME
William H. Smyers, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 30, 1933, Serial No. 704,747
11 Claims. (Cl. 260—757)

1. An improved flexible coating composition for waterproofing a surface of a fibrous sheet material comprising a uniformly homogeneous mixture of wax and rubber, said composition being compounded of a colloidal rubber uniformly and completely swelled to a jelly-like mass, the rubber being substantially preserved against excessive decomposition so as to retain its colloidal structure, the wax being homogeneously dispersed in the rubber, and said jelly-like mass being smoothly spreadable on the surface of a fibrous sheet material without substantial penetration.

2,280,861
TRANSFORMER DISTRIBUTING SYSTEM
Howard E. Somes, Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan
Original application August 20, 1936, Serial No. 96,929. Divided and this application January 21, 1938, Serial No. 186,194
6 Claims. (Cl. 171—119)

1. A transformer comprising an inner annular core member composed of substantially radial laminations to form a continuous transverse annular section, a winding about said core terminating short of at least one end of the core, an outer annular shell core composed of substantially radial laminations to form a continuous transverse ring section, a winding wound within the walls of the outer annular shell terminating short of at least one end of the shell, said inner core being arranged within the outer shell with the windings in juxtaposition and overlapping, and said inner core and shell having their laminations extended radially over at least one end of the coils toward each other to substantially encase the overlapping coils said core member and its winding thereabout, and said outer shell core and its winding within being relatively



movable with respect to one another substantially on their common axes.

2,280,862
COATING COMPOSITION AND METHOD OF PREPARATION
Ben Edmund Sorenson, Upper Darby, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 17, 1940, Serial No. 335,787
19 Claims. (Cl. 260—405)

1. The process of preparing modified oils and resinous materials which comprises refluxing fatty unsaturated, non-hydroxylated oils containing substantially no conjugation and maleic acid esters of unsaturated alcohols.

2,280,863
CELLULOSE ACETATE MOLDING COMPOSITION
Raphael L. Stern, South River, N. J., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 24, 1938, Serial No. 247,680
9 Claims. (Cl. 106—169)

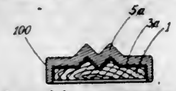
6. A cellulose acetate molding composition prepared by colloiding cellulose acetate normally having a tendency to discolor on heating at molding temperatures with plasticizer therefor and adding an acid to the composition in a quantity in the range between about 0.002% and 0.01% by weight of the cellulose acetate.

2,280,864
MOLD
Max Stössel, Chicago, Ill., assignor to Otto Stossel, Chicago, Ill.
Application May 22, 1939, Serial No. 274,951
In Great Britain January 11, 1938
6 Claims. (Cl. 22—190)



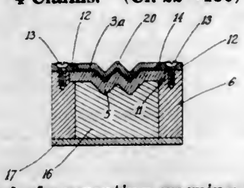
1. Method of preventing warping in the manufacture of a spray metal mold which comprises applying a relatively thin coherent coat of spray metal to a model and marginal member positioned substantially around and immediately adjacent to said model, at least part of said coat overlying said model being so bonded as to be strippable from said model and at least part of said coat overlying said marginal member being relatively highly bonded to said marginal member, thereafter spraying metal on the coated model until said model is covered with metal to the desired thickness, removing substantially intact the spray metal shell thus formed overlying said model and recovering a substantially accurate non-warped spray metal negative of said model.

2,280,865
PRODUCTION OF SPRAY METAL NEGATIVES OF MODELS
Max Stössel, New York, N. Y., assignor to Otto Stossel, Chicago, Ill.
Original application May 22, 1939, Serial No. 274,951. Divided and this application May 29, 1940, Serial No. 337,789. In Great Britain January 11, 1938
6 Claims. (Cl. 22—190)



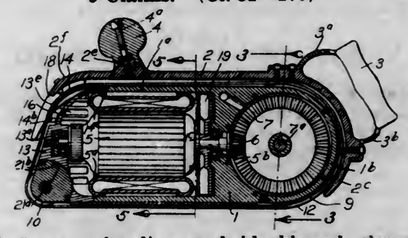
1. Method of making a spray metal negative of relatively hard metal from a model the surface of which is non-metallic and does not permit the direct spraying with such metal, which comprises the steps of spraying a coating of metal of relatively low melting point on such model, said coating being strippably bonded to said model, separating said model from the spray metal negative thus formed, spraying a coating of metal of relatively higher melting point on said negative to form a spray metal duplicate of said model, separating said duplicate from said negative, spraying said duplicate with a relatively hard metal to form a second negative and separating said duplicate from said second negative.

2,280,866
PRODUCTION OF SPRAY METAL NEGATIVES OF MODELS
Max Stössel, New York, N. Y., assignor to Otto Stossel, Chicago, Ill.
Original application May 22, 1939, Serial No. 274,951. Divided and this application May 29, 1940, Serial No. 337,791. In Great Britain January 11, 1938
4 Claims. (Cl. 22—190)



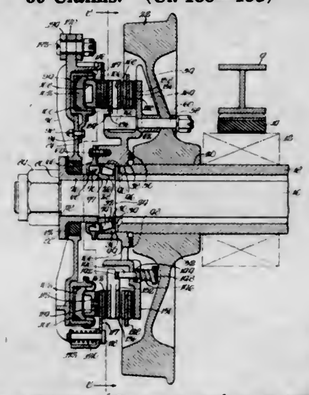
1. Method of preventing warping in the manufacture of a spray metal negative of a model adapted to be coated with spray metal, which comprises placing a frame member substantially in delimitation of the model surface and immediately adjacent to the border of such surface so as to define a shoulder with said surface, applying to such model and said frame member a coherent coat of spray metal, said coat being anchored to the frame member by the spray metal within the corner defined by said shoulder and being so bonded as to be strippable from said model, removing substantially intact the spray metal shell thus formed overlying said model and recovering a substantially accurate non-warped spray metal negative of said model.

2,280,867
ABRADING AND BLACKBOARD CLEANING MACHINE
Harold A. Swan, Coronado, Calif.
Application October 30, 1939, Serial No. 301,994
9 Claims. (Cl. 51—170)



3. In an abrading and blackboard cleaning machine of the class described, the combination of a hollow shell like casing, a motor mounted therein at the front portion with its axis longitudinally thereof, a drive shaft in connection with one end of said motor extending backwardly therefrom, a bevel pinion on the extended end of said drive shaft, a bevel gear centrally positioned in the rear portion of said casing and intermeshing with said bevel pinion, a shaft for said bevel gear extending in opposite directions therefrom, a drive pulley secured on each end of said shaft with the surfaces of said pulleys extending to the upper and lower sides and beyond the rear end portion of said casing, a single abrasive belt positioned over said pulleys and around said casing and contacting with said pulleys whereby said abrasive belt is driven by said pulleys, a separate casing and belt guard secured in spaced relation to said abrasive belt, and automatic tension means in engagement with the upper front side of said abrasive belt supported by said casing.

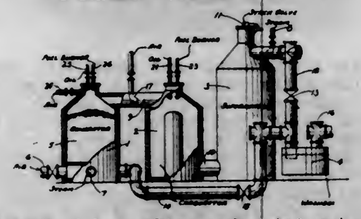
2,280,868
BRAKE ARRANGEMENT
Carl E. Tack, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application September 23, 1939, Serial No. 296,218
39 Claims. (Cl. 188—153)



1. In a vehicle, a frame member, a supporting wheel and axle assembly, a journal box inboard said wheel, said assembly including a non-rotating axle, a rotating axle sleeved thereover, a wheel fitted on said rotating axle, braking means comprising interleaved rotors and stators supported from said rotating axle and non-rotating

axle respectively, means for moving said rotors and stators axially, said means comprising a disc resiliently mounted on said non-rotating axle, a cylinder carried by said disc, a piston therein, and flexible dirt protecting means for said cylinder.

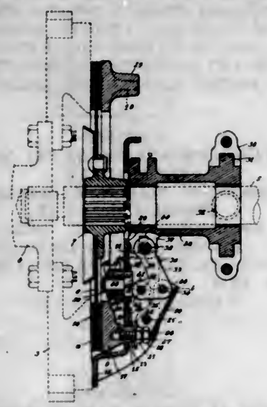
2,280,869
METHOD FOR MAKING CARBURETED WATER GAS
Harutyun G. Terzian, Philadelphia, Pa., assignor to United Engineers & Constructors Inc., a corporation of Delaware
Application May 11, 1938, Serial No. 207,215
8 Claims. (Cl. 48—205)



1. A method for making carbureted water gas in a carbureted water gas set including a single generator containing a carbonaceous fuel bed, a single carbureter, a single superheater in individual detached shells and a wash box connected in series, comprising intermittently blasting the fuel bed of said generator by passing primary air therethrough upwardly from the bottom, marginally blasting the upper portion of said fuel bed with secondary air, passing the blast gases thus produced through said carbureter and superheater, said carbureter having an annular gas-making path which is substantially unobstructed and formed by a hollow chamber having a pier positioned in the center thereof, simultaneously supplying additional heat to said carbureter and superheater from a fuel burner located at the top of said carbureter, said fuel burner being directed downwardly into said annular passage, said additional heat being sufficient in quantity to bring said carbureter and superheater up to oil-gas-making temperature as soon as said fuel bed is up to blue-gas-making temperature, and intermediate said blast runs making a gas-making run by passing steam through said fuel bed and flowing the resulting gases through said carbureter and superheater while spraying oil into said set for vaporization and fixing, whereby said generator is operated with respect to the quantity of heat stored in the fuel bed by passing primary air therethrough as in blue-gas practice wherein no carburetion with oil takes place and said carbureter and superheater are operated with respect to the quantity of heat stored as in carbureted water gas practice wherein carburetion with oil does take place.

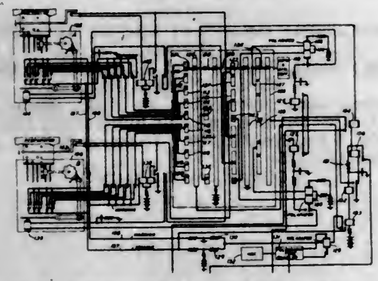
2,280,870
FRICTION CLUTCH
W. Vincent Thelander, Rockford, Ill.
Application July 12, 1940, Serial No. 345,202
27 Claims. (Cl. 192—68)

1. In a clutch comprising a driving element and a driven element, a pressure plate for holding the driving and driven elements frictionally engaged, a lever support, a lever pivoted intermediate its ends thereon arranged to communicate movement from its one end to the pressure plate to cause engagement of the clutch, compressible spring means on the lever support for applying clutch engaging pressure through said lever, and over-center means pivotally connected with the other end of said lever and arranged when moved to a substantially dead-center posi-



tion between its pivotal connection with the lever and said spring means to compress said spring means and transmit pressure therefrom to said lever whereby to cause engagement of the clutch under spring pressure.

2,280,871
CONTROL SYSTEM
Walter W. Tuthill, Jackson Heights, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 31, 1940, Serial No. 354,912
4 Claims. (Cl. 179—4)



1. In a communication system wherein telegraph signals are interpolated in voice current transmission during lulls and pauses therein, a transmission channel, voice controlled means at the transmitting end of said transmission channel comprising a transmitting chain of relays for performing interpolating switching operations, one of said relays exercising a remote control over a receiving chain of relays at the receiving end of said transmission channel, another of said relays in said transmitting chain operating to control the transmission of telegraph signals, said last relay being provided with a hangover circuit to time the earliest possible start of telegraph signal transmission a predetermined time interval after the said first relay has relinquished its said control over said receiving chain of relays, telegraph signal responsive means at the receiving end of said transmission channel, said receiving chain including a relay for enabling said telegraph signal responsive means, and a hang-over circuit for said enabling relay arranged to prevent the enabling of said telegraph signal responsive means until the said time for the earliest possible start of telegraph signal transmission.

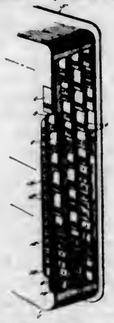
2,280,872
METHOD FOR ALTERING THE COMPOSITION OF MOLTEN METAL
Marvin J. Udy, Niagara Falls, N. Y.
No Drawing. Original application October 26, 1939, Serial No. 301,376. Divided and this application May 26, 1941, Serial No. 395,309
20 Claims. (Cl. 75—27)

1. The method of altering the composition of molten metal which comprises igniting in contact with the molten metal a reaction mixture in agglomerated form comprising particles of ferrosilicon intimately associated with and bonded together by means of oxidizing material capable of reacting with the silicon of the ferrosilicon to generate sufficient heat to melt the iron of the ferrosilicon.

2,280,873
PRODUCTION OF CHROMIUM-BEARING ALLOYS
Marvin J. Udy, Niagara Falls, N. Y.
No Drawing. Original application October 26, 1939, Serial No. 301,375. Divided and this application May 26, 1941, Serial No. 395,311
18 Claims. (Cl. 75—27)

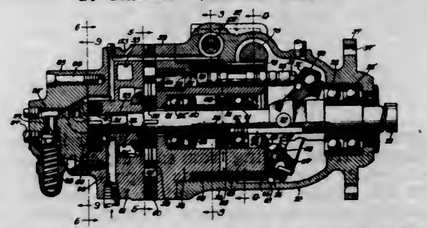
1. The method of incorporating chromium in iron or steel which comprises igniting in contact with the iron or steel in the molten state an exothermic reaction mixture comprising solid components consisting essentially of (1) high carbon ferrochromium containing silicon and more than about six percent of carbon and (2) oxidizing material containing a large proportion of a compound of the group consisting of (*a*) sodium nitrate (*b*) sodium chlorate and (*c*) a chromate of sodium and in which the components are present in such quantities and are so proportioned that the oxidizing material and the carbon and silicon of the ferrochromium are capable of reacting upon ignition to generate sufficient heat to melt the iron and chromium of the ferrochromium and carbon is present in the ferrochromium in amount sufficient to produce a substantial exothermic effect by reaction with the oxidizing material.

2,280,874
INDEXED BOOK OR THE LIKE
Howard H. Yonaka, Algonac, Mich.
Application July 26, 1939, Serial No. 286,709
5 Claims. (Cl. 283—38)



1. A reversible index for a book, such as a Bible or other voluminous reference work, said book consisting of a plurality of primary sections and a plurality of secondary sections, said index facilitating opening the book at the first page of the primary sections thereof from any position of the book whether open or closed from either end of the book; said index comprising indentations cut out of the free edges of the leaves of the book leaving uncut upper and lower corners of the leaves and leaving uncut that part of the said free edges of the respective primary sections necessary to provide primary index tabs in stepped relation through the book, each of said primary tabs substantially half underlying the index tabs of the preceding primary sections and substantially half overlapping the index tabs of the succeeding primary sections, a first index mark on the lower exposed front surface of the tab of the first leaf of each primary section identifying that section, a second index mark on the upper back exposed surface of the tab of the last leaf of each primary section identifying the following primary section.

2,280,875
FLUID PRESSURE GENERATING OR ACTUATED MEANS
Gunnar A. Wahlmark, Rockford, Ill.
Application November 22, 1939, Serial No. 305,690
17 Claims. (Cl. 103—162)

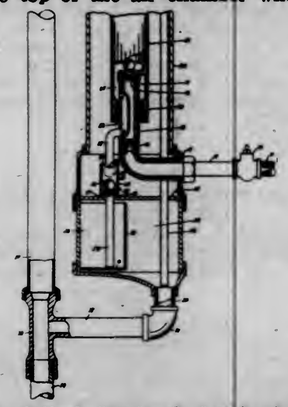


1. A fluid device comprising, in combination, a casing having a plurality of annularly arranged cylinders formed therein, a piston reciprocable in each of said cylinders, a rotatably mounted shaft concentric with said cylinders, a wobble plate mounted for converting rotary motion of said shaft into reciprocatory motion of imparting a discharge stroke to said pistons and vice versa, a pair of fluid ports in said casing for connection of the device to a hydraulic circuit, valve means driven by said shaft for controlling communication between said ports and said cylinders, said wobble plate being adjustably mounted to vary the stroke of said pistons, and a cylindrical member concentric with said shaft and cylinders and having an end edge lying in a plane perpendicular to said shaft adapted to engage said wobble plate, said member being shiftable axially to cause its end edge to bear throughout its circumference against said wobble plate.

2,280,876
ANTIPOLLUTION DRINKING FOUNTAIN
Frank Zugelter, Cincinnati, Ohio, assignor to The Murdock Manufacturing and Supply Company, Cincinnati, Ohio, a corporation of Ohio
Application May 19, 1939, Serial No. 274,603
2 Claims. (Cl. 137—78)

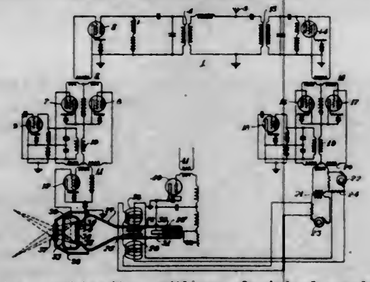
1. A device of the class described for controlling flow of potable water and using potable water for preventing contamination of such flow of potable water, comprising a water supply nozzle, a chambered valve carrying supply line for receiving water at its lower end from said nozzle and for

discharging water at its upper end at an elevation above ground level, and comprising a valve for cooperation with said nozzle for controlling flow of water from said nozzle to the upper end of said water supply line, means for actuating said valve to open and closed positions, means for draining the chamber and water supply line when the valve is closed and comprising a conduit connected with said chamber, an air chamber sealed at its top and having its lower end in communication with a sewer, a water trap wholly disposed within said air chamber, said conduit terminating interiorly of and adjacent the lower portion of said water trap, said water trap having an overflow wall connecting the trap with the air chamber at the top of the air chamber whereby to



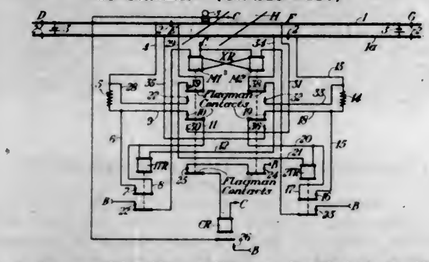
prevent a relatively low level of water in the air chamber from flowing from said air chamber into said water trap, and means disposed intermediate the length of said conduit for limiting the quantity of water displaced from said water trap into said conduit incident to back sewage operative upon the air cell and thereby creating a pressure condition within the cell and tending to force water in the trap to a higher elevation in said conduit, whereby sewage is precluded from overflowing the air cell and from rising through the trap and conduit to elevations above the water supply nozzle and valve and thereby contaminate any water intended for discharge by the water supply line at an elevation above ground level.

2,280,877
TELEVISION SYSTEM
Vladimir K. Zworykin, Forest Hills, N. Y., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 26, 1938, Serial No. 242,505
2 Claims. (Cl. 178—7.2)



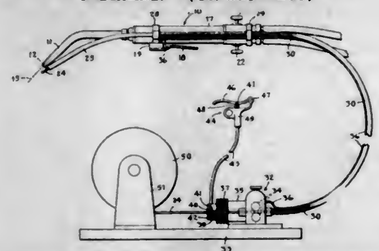
1. In combination with an electrical condenser comprising a pair of conducting elements separated by an insulating gap, said condenser being connected to an electrical circuit in series with a second insulating gap, said circuit being adapted to effectively utilize a discharge current from said condenser, an electron beam provided with means for normally separating it from contact with said gap and for at times moving it to such a position as to render said gap conductive.

2,280,878
RAILWAY TRACK CIRCUIT APPARATUS
Earl M. Allen, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application September 20, 1940, Serial No. 357,548
19 Claims. (Cl. 246—130)



1. In combination with an insulated section of railway track divided into two adjoining subsections by two insulated joints disposed one in each rail in such manner that a rail portion of one subsection overlaps a rail portion of the other subsection, two track circuits one for each of said subsections and each including a track relay connected to the rails of its associated subsections adjacent said two insulated joints, means controlled by the one of said track relays first released by a train in said section for establishing a shunt path around the one of said two insulated joints first to be encountered by the train moving through said section, and means controlled by said first released track relay for transferring the connection of such relay with the rail adjacent said one insulated joint to a point of that rail substantially opposite the other insulated joint.

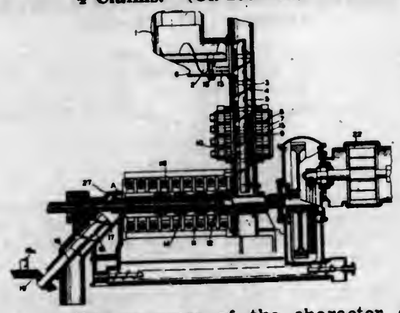
2,280,879
WIRE FEED FOR HAND TORCHES
James L. Anderson, Closter, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application May 7, 1940, Serial No. 333,716
9 Claims. (Cl. 113—109)



1. The combination with a hand welding torch having a handle portion and a tip extending at an angle to the handle portion of a guide for directing a welding wire into the region of a welding flame at the end of the tip, said guide

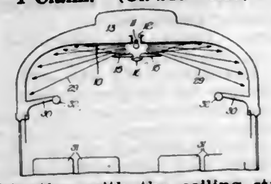
including a flexible conduit leading to wire feeding mechanism remote from the torch, and means connecting the guide to the torch, said guide being movable to shift it into position to feed the wire into a weld on different sides of the welding flame.

2,280,880
VARIABLE CHOKE MECHANISM FOR EXPELLER PRESSES
Raymond T. Anderson, Berea, Ohio, assignor to The V. D. Anderson Company, Cleveland, Ohio, a corporation of Ohio
Application January 26, 1940, Serial No. 315,660
4 Claims. (Cl. 100—48)



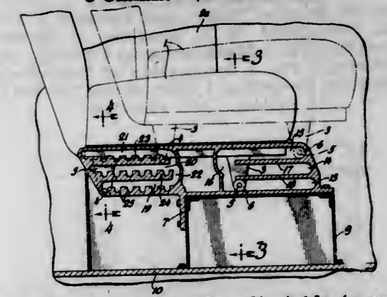
1. A continuous press of the character described, comprising an expressing worm, a choking screw cooperating therewith, and operating means for said worm and screw arranged to cause the speed of one thereof to control the speed of the other and thereby maintain uniform load conditions throughout a period of operation.

2,280,881
LIGHTING FIXTURE
Albert L. Arenberg, Highland Park, Ill., assignor to Patent License Corporation, Chicago, Ill., a corporation of Illinois
Application February 15, 1937, Serial No. 125,716
1 Claim. (Cl. 240—7.35)



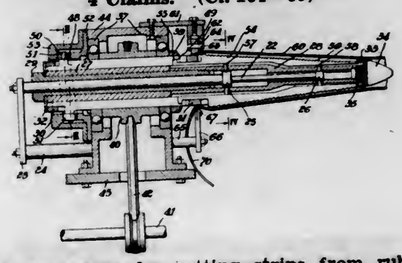
In combination with the ceiling structure of a passenger vehicle, a plurality of spaced parallel channels extending longitudinally of said ceiling defining a central recessed ventilating duct, a row of lights mounted in said ventilating duct, a lighting fixture and air baffle below said duct, said fixture comprising three baffle strips, two of which are identical with each other in size and shape and are arranged symmetrically with respect to the longitudinal axis of the fixture in laterally separated relation to each other, with the gap between the same centered directly below the bulbs, and the third of which baffle strips is spaced below the first two baffle strips directly under the gap, with the outer edges of the third strip lapping the inner edges of the first two strips far enough to cut off any direct rays from the bulbs, and brackets of inverted T-shape positioned at intervals along the baffle strips in vertical transverse planes between certain of the bulbs for supporting the fixture.

2,280,882
ADJUSTABLE SEAT
Dwight E. Austin, Pontiac, Mich., assignor to Yellow Truck & Coach Manufacturing Company, Pontiac, Mich., a corporation of Maine
Application May 21, 1940, Serial No. 336,474
3 Claims. (Cl. 155—14)



2. In a chair assembly adjustable to several longitudinal settings in each of several vertical heights, cooperating seat and base members, one thereof having four bearing feet fixedly mounted thereon, one at each corner of the assembly, bearing devices carried by the other member and complemental to said feet, each bearing device complemental to each foot comprising a set of vertically spaced and longitudinally extending horizontal guideways for selectively receiving said foot and accommodating its relative longitudinal adjustment through a range of selective longitudinal settings coincident with adjustment of all the feet in their respective guideways, the horizontal guideways of at least one set having longitudinally spaced foot receiving and locating notches for retaining the seat and base members against accidental displacement from their relative longitudinal setting, and a vertical transfer passage for each set of guideways for the vertical adjustment of the complementary foot from one guideway to another.

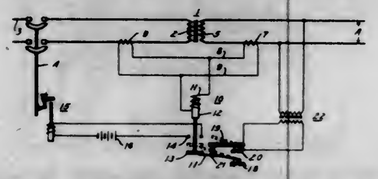
2,280,883
PRODUCTION OF RUBBER THREADS
John Bach, Budapest, Hungary
Application December 10, 1941, Serial No. 422,379
In Hungary September 25, 1940
4 Claims. (Cl. 164—69)



1. Apparatus for cutting strips from rubber hoses, which comprises a rotatable body of substantially roundish cross-section, a rubber hose stretched around said body, a fixed cutting tool in contact with said body, means for rotating said body with the rubber hose thereon, mechanical shifting means arranged in said body in contact with the rubber hose thereon and means for causing the shifting means to vibrate axially during the rotation of the body, the vibrating shifting means causing the rubber hose to move along said body towards and below the cutting

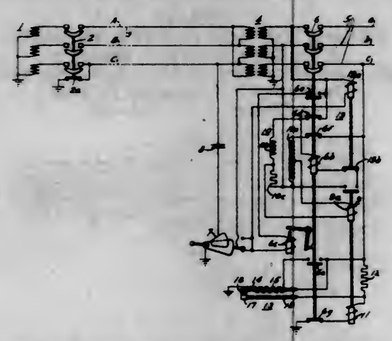
tool at substantially uniform speed, and thereby causing the cutting tool to cut a strip of substantially uniform width from the rubber hose.

2,280,884
DIFFERENTIAL RELAY
George M. Barrow, Nutley, and Bernard E. Lenehan, Bloomfield, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 4, 1939, Serial No. 302,938
11 Claims. (Cl. 175—294)



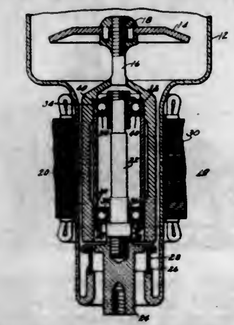
1. In a protective arrangement for an electrical system subject to transient current and having terminals for transmitting electrical current normally to and from said system, a protective device responsive to the difference between currents entering and leaving said electrical system through said terminals, and means responsive to the energization of said system and effective as transient current flowing in said electrical system when said system is initially energized disappears for progressively increasing the sensitivity of said protective device by successive increments.

2,280,885
NETWORK DISTRIBUTION SYSTEM
Myron A. Bostwick, Budd Lake, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 27, 1939, Serial No. 276,063
8 Claims. (Cl. 175—294)



1. In a polyphase electrical distribution system, a first polyphase circuit, a second polyphase circuit, coupling means including a switch for said polyphase circuits, said circuits normally being energized by similar polyphase voltages, means for deriving in part from said first circuit and in part from said second circuit, an alternating voltage dependent on a polyphase symmetrical phase-sequence component of the energization of said circuits, control means responsive to said alternating voltage and means for compensating said control means for variations resulting from a change in the energization of one of said circuits relative to the other of said circuits, said last-named means including means energized in accordance with an alternating voltage from the circuit subject to said change which normally is substantially in phase opposition to said first-named alternating voltage.

2,280,886
BEARING LUBRICANT FOR VACUUM SERVICE
Porter H. Brace, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 4, 1941, Serial No. 381,673
9 Claims. (Cl. 250—148)



1. A lubricant for bearings for use in a high vacuum without causing deterioration of the vacuum, comprising one or more metallic compounds selected from the group consisting of molybdenum sulfide, molybdenum telluride, molybdenum selenide, tungsten sulfide and tungsten telluride.

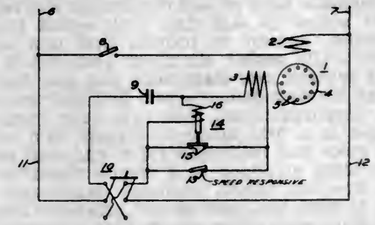
2,280,887
PROCESS FOR ELECTROLYTIC REDUCTION
Kenneth R. Brown, Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 16, 1939, Serial No. 295,244
11 Claims. (Cl. 204—77)

1. The process for the preparation of polyhydric alcohols which comprises electrolytically reducing an aqueous monosaccharide solution containing an alkali metal salt as the catholyte in a diaphragm cell, and maintaining said catholyte free from magnesium in amount greater than about 7.0 parts per million based on the total solids during the reduction.

2,280,888
ELECTRIC MOTOR CONTROL
Lloyd W. Buchanan, Covington, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 13, 1939, Serial No. 284,139
8 Claims. (Cl. 172—279)

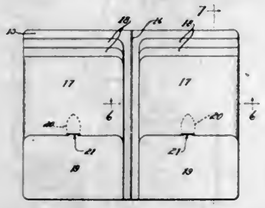
1. In combination, a self-starting single-phase motor having a main primary winding and an auxiliary primary winding, means for connecting said windings to a single-phase supply line, switching means for reversing the connections of one of the windings with respect to the other, speed responsive switch means connected in series with the auxiliary winding for disconnecting it

from the line when the motor has reached a predetermined speed, and a voltage relay having contacts which are closed when the relay is deenergized and having a voltage responsive oper-



ating coil, said relay contacts being connected in parallel with the speed responsive switch means and said operating coil being connected across the auxiliary winding and the relay contacts.

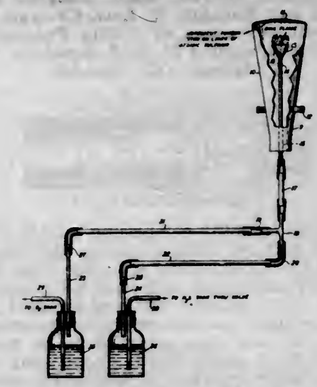
2,280,889
PORTFOLIO
Warner R. Buxton, Longmeadow, Mass.; Mabel Allen Buxton, Longmeadow, Mass., executrix of said Warner R. Buxton, deceased, assignor to Buxton, Incorporated, a corporation of Massachusetts
Application April 2, 1940, Serial No. 327,427
8 Claims. (Cl. 150—39)



1. In a portfolio, a body member foldable along its median line to superpose one half upon the other, a side closure member hingedly connected to one side edge of the body member and normally superposed on one half of the latter, a division strip located between said members and free from direct connection to the body member, said strip being mounted in superposed relation on the side closure, means for connecting said strip near its bottom edge to the side closure near the bottom edge of the latter and for yieldingly holding the strip in said relation, said strip being directly supported solely by said side closure, and means for connecting the body and side closure members to retain them in superposed relation and close the space between said members along the bottoms thereof.

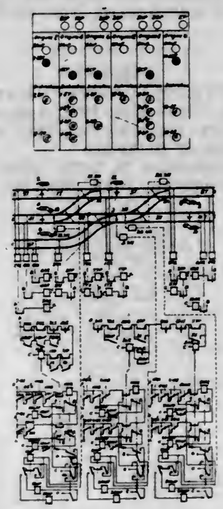
2,280,890
LUMINESCENT SCREEN
Chester J. Calbick, Summit, and John B. Johnson, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 5, 1940, Serial No. 327,958
7 Claims. (Cl. 91—70)

3. A method of applying a fluorescent coating to a supporting member comprising the steps of igniting a mixture of hydrogen sulphide and oxygen near the surface of said member to be coated and maintaining said ignition for a sufficient time to produce a thin film of sulphur on said member, drying said film, applying fluorescent material



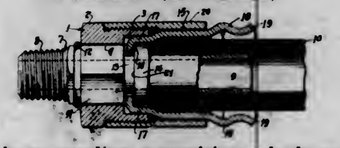
to said film to form a screen, and then baking the screen in an inert atmosphere.

2,280,891
ROUTE CONTROL SYSTEM
Georges Louis Caille, Vaujours, France, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application April 11, 1940, Serial No. 329,134
In France October 27, 1939
17 Claims. (Cl. 246—134)



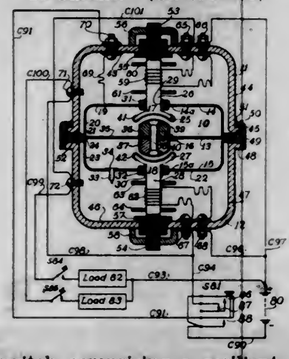
1. In an interlocking control system for a track layout including track switches operable to form different traffic routes, route buttons for selecting said routes, a route circuit for each route each closed in response to the operation of one or more route buttons identifying the corresponding route, route relays initially energised over said route circuits and arranged to be held energised independently of the operated route buttons until cancelled, for establishing said routes, and timing means effective to interrupt said route circuits in the event said buttons are held operated for a predetermined period.

2,280,892
DETACHABLE HOSE COUPLING
Irving Cowles, Detroit, Mich., assignor to said Cowles and Rudolph W. Lotz, Chicago, Ill., as successor cotrustees of Utility Patents Trust
Application November 25, 1938, Serial No. 242,305
7 Claims. (Cl. 285—86)



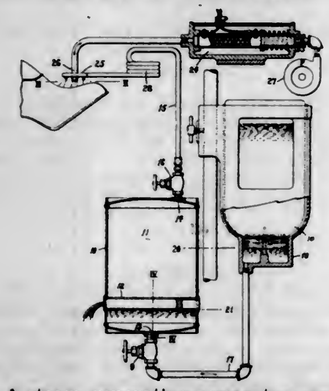
1. A hose coupling comprising a body member equipped with an axial stem, an internally cylindrical shell concentric with the stem having threaded engagement with said body member, a series of thin relatively flat and straight fingers slightly arcuate in cross section on substantially the axis of said stem adapted to lie normally substantially in contact throughout their lengths with the inner surface of said shell while the latter is disposed at substantially the inner limit of its movement relatively to the body member, said fingers associated at their innermost end portions with said body member against longitudinal movement for movement radially of the latter into and out of compressing relation to a hose end portion disposed over said stem, said fingers equipped at their other ends with outwardly projecting formations lying in the path of the mouth of said shell when the latter is disposed at substantially the inner limit of its movement said shell causing inward movement of said fingers throughout substantially their entire lengths to compress the said hose end portion as said shell is moved away from said last-named position.

2,280,893
ELECTROMAGNETIC SWITCH
Irvin W. Cox, Milwaukee, Wis., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application November 30, 1939, Serial No. 306,802
13 Claims. (Cl. 200—98)



13. A switch comprising a resilient magnetic diaphragm, first and second substantially cup-shaped non-magnetic housing elements respectively sealed to opposite sides of said diaphragm, first and second substantially cup-shaped magnetic yokes respectively associated with opposite sides of said diaphragm, means including a non-magnetic member mutually associated with said yokes for retaining said yokes in assembled relation and for clamping said diaphragm between said yokes, first and second magnetic pole pieces respectively carried by said first and second yokes and respectively extending through openings provided in said first and second housing elements, said first and second pole pieces being respectively associated in spaced relation with the opposite sides of said diaphragm and respectively sealed to said first and second housing elements, thereby to provide first and second hermetically sealed chambers respectively disposed between said diaphragm and said first and second housing elements, said first pole piece and said diaphragm and said first yoke being arranged in a first magnetic circuit, said second pole piece and said diaphragm and said second yoke being arranged in a second magnetic circuit, first and second windings respectively coupled to said first and second magnetic circuits, said diaphragm being adapted for vibration, and electric circuit contacts disposed within said first and second chambers and controlled by the vibration of said diaphragm.

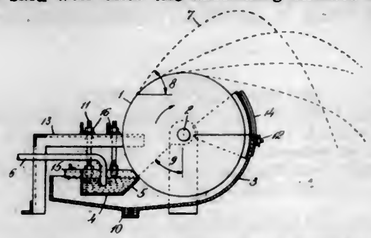
2,280,894
STEAM GENERATOR
Lee H. Cushman, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application February 3, 1941, Serial No. 377,101
4 Claims. (Cl. 219—38)



1. A steam-generating apparatus comprising a boiler shell forming a pressure-sustaining chamber, a flasher located in the steam-space of said chamber, said chamber having a water-inlet below and a steam-outlet above said flasher, a throttle-valve arranged to arrest the escape of steam from said chamber, and means by which water is supplied through said inlet to replenish the water in said chamber to the level of the bottom of said flasher.

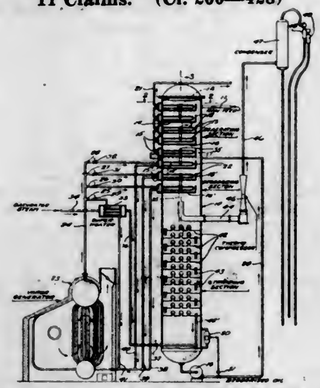
2,280,895
APPARATUS AND METHOD FOR DISPERSING LIQUIDS
Richard C. Datin, Petersburg, Va., assignor to The Solvay Process Company, New York, N. Y., a corporation of New York
Application August 12, 1939, Serial No. 289,931
9 Claims. (Cl. 83—91)

1. Apparatus for dispersing a liquid comprising a horizontal drum rotatable on its axis, a liquid conduit and weir positioned with said weir adjacent to but not touching a line along the ascending side of said drum, the clearance between the weir and the drum surface being no more than .07 inch, means for adjusting the position of said weir relative to said drum surface, means for supplying liquid to said conduit so as to overflow said weir onto the ascending surface of the



drum, and means for rotating the drum at a rate sufficient to throw particles of liquid from its surface.

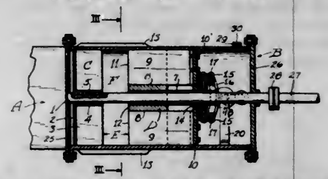
2,280,896
DEODORIZATION OF ANIMAL AND VEGETABLE OILS
Dion K. Dean, Rahway, N. J., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application July 22, 1937, Serial No. 154,994
11 Claims. (Cl. 260—428)



1. The process of continuously deodorizing animal or vegetable oils which comprises continuously introducing the oil into a treating zone, maintaining a vacuum in said zone, progressively heating the oil in a first portion of the zone to deaerate the oil by passing it counter-current to and in indirect heat exchange relationship with heated deodorized oil withdrawn from said zone, progressively heating the deaerated oil to a higher temperature in another portion of the zone by indirect heat exchange relationship with a separate heating medium to remove high boiling constituents and thereby deodorize the oil, passing the heated deodorized oil through a further portion of said zone in contact with a stripping medium, withdrawing from said zone the vaporous constituents removed from the oil and the stripping medium at an outlet so disposed that said constituents removed in the first and other portions of said zone flow concurrently with the oil in passing therethrough, and continuously removing the deodorized and stripped oil from said zone.

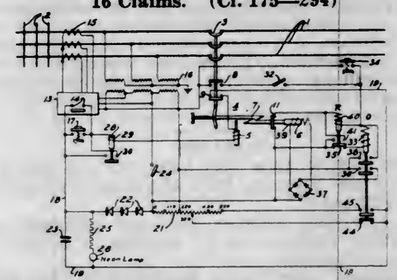
5. Apparatus for the continuous deodorization of animal or vegetable oils comprising means forming a treating chamber, means for producing and maintaining a vacuum in said chamber, means for continuously introducing oil into said chamber, means for progressively heating the oil in its passage through a first portion of the chamber to deaerate the oil including fluid conducting tubes in contact with the oil in said portion, means for passing heated deodorized oil withdrawn from said chamber through said tubes, said tubes being arranged so that the oil therein flows counter-current to the oil in contact therewith, means for progressively heating the deaerated oil to a higher temperature in another portion of the chamber to remove high boiling constituents and thereby deodorize the oil including heating surface in contact with the oil in said portion, means for heating said surface by a separate heating medium, the arrangement being such that the vaporous constituents removed from the oil in said chamber flow concurrently with the oil therein, means for continuously withdrawing the vaporous constituents from said zone, and means for continuously removing the deodorized oil from said zone.

2,280,897
FLUID CONTROLLED BRAKE
George E. Denman, Oakland, Calif.
Application May 17, 1941, Serial No. 393,969
4 Claims. (Cl. 188—90)



1. A fluid controlled brake comprising a casing for holding a fluid, a rotor mounted in the casing and being attachable to a member that is to be braked, radially-extending blades on the rotor, a stator rigidly mounted in the casing and having radially extending slots, said stator being disposed a predetermined distance from the rotor blades, a second group of movable blades slidably mounted in the stator slots, and common means for simultaneously moving all of the second set of movable blades toward or away from the rotor blades for applying a desired degree of braking force to the rotor.

2,280,898
CAPACITOR TRIPPING DEVICE FOR CIRCUIT BREAKERS
Lloyd W. Dyer, Wilkinsburg, and Gayne D. Gamel, Verona, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 14, 1939, Serial No. 284,448
16 Claims. (Cl. 175—294)



1. A circuit-breaker system for an alternating-current line, comprising: a circuit breaker having main contacts in series with the line; electrical tripping-means for tripping said circuit-

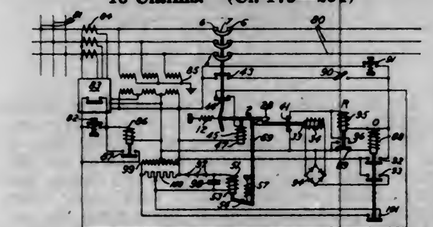
breaker to actuate the latter to an open-circuit condition; a unidirectional-current bus; a capacitor permanently connected across the terminals of said unidirectional-current bus; a line-energized voltage-circuit adapted to be energized from across the line on one side of the main contacts of the breaker; rectifier-means for charging said capacitor from said line-energized voltage-circuit; circuit-means for at times energizing said tripping-means from said unidirectional-current bus; means automatically responsive to a predetermined stage in the opening operation of the circuit breaker for deenergizing said tripping-means; means for reclosing the circuit breaker; and means automatically effective during the closing operation of the circuit breaker for causing said line-energized voltage-circuit and said rectifier-means to supply charging-voltage to said unidirectional-current bus at a temporarily increased ratio with respect to the line-voltage.

2,280,899

UNDERVOLTAGE MECHANISM FOR CIRCUIT BREAKERS

Lloyd W. Dyer, Wilkinsburg, and Gayne D. Gamel, Verona, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application September 30, 1939, Serial No. 297,332
18 Claims. (Cl. 175—294)



1. A switching device including main contacts, mechanism having an opening operation for effecting the separation of said main contacts and a closing operation for effecting the closure of said main contacts, an undervoltage controlling-means having a dropout operation for initiating an opening operation of the mechanism when the voltage impressed on the undervoltage controlling-means falls below a predetermined minimum, said mechanism including accelerating-means separate from said undervoltage controlling-means for thereafter completing the opening operation of the mechanism and closing-means separate from said undervoltage controlling-means for effecting a closing operation of the mechanism, means for normally energizing the undervoltage controlling-means in accordance with a predetermined response to a predetermined voltage, and means effective at the moment of the completion of the closing operation of the mechanism for providing additional preventive means for preventing the dropout operation of the undervoltage controlling-means.

2,280,900

PRODUCTION AND TREATMENT OF PACKAGES OF YARNS AND SIMILAR TEXTILE MATERIALS

Henry Dreyfus, London, England, assignor to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application December 29, 1938, Serial No. 248,207. In Great Britain January 5, 1938
16 Claims. (Cl. 28—1)

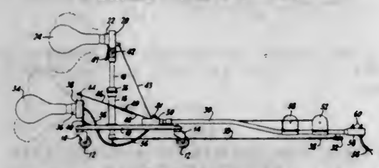
1. Packages of yarn and similar textile materials having a basis of cellulose acetate or other organic derivative of cellulose wound on bobbins of which the barrels are coated with a solid substance which is soluble or readily dispersible in water.

2,280,901

ILLUMINATION DEVICE

William C. Eddy, Port Washington, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application April 28, 1939, Serial No. 270,542
1 Claim. (Cl. 240—1.3)



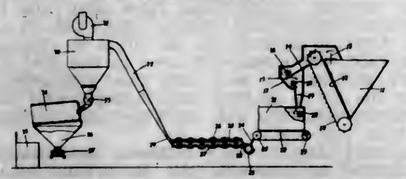
An illumination device comprising a moveable support member, a plurality of light sources positioned in axial alignment and spaced at predetermined distances from each other, a carrier means positioned for supporting the lights, means for rotatably mounting the carrier upon the forward end of said support member, means for moving the carrier and said light sources in unison about a horizontal axis located at the forward end of said support member so that the issuing light from each source is directed along a predetermined and adjustable path, a second carrier member located at the forward end of said support member and arranged to extend upwardly thereof, a light source carried upon said second named carrier member in a position upwardly displaced from the first group of lights, means for adjusting and rotating the second light source about a horizontal axis parallel to and displaced from the axis of rotation of the first group of lights, and means for adjusting and rotating said second named light source about an axis normal to each horizontal axis of rotation so that the second light source may be adjusted relative to said first group of lights about two axes so as to control the directional path of the emitted light and thereby diffuse the light falling upon a subject in the path of the light issuing from both sources.

2,280,902

OPENING AND CLEANSING OF ASBESTOS FIBROUS MATERIAL

Wilfred James Ellison, Norden, Rochdale, England, assignor to Turner and Newall Limited, Spotland, Rochdale, England, a British company

Application January 23, 1940, Serial No. 315,191
In Great Britain November 14, 1939
17 Claims. (Cl. 209—2)



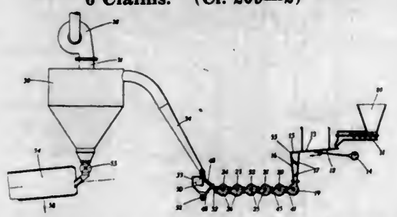
1. In the opening of fibrous asbestos material, the steps which comprise providing the material in tufts of a size adapted to be air-borne, conveying at high velocity in air a stream of said detached tufts of asbestos material and striking said tufts by an impacting member while they are being so conveyed and are freely suspended in air and without disintegration of the material by rubbing or tearing action.

2,280,903

SEPARATION AND RECOVERY OF SHORT FIBROUS ASBESTOS FROM GRANULAR ASBESTOS-BEARING ROCK

Wilfred James Ellison, Norden, Rochdale, England, assignor to Turner and Newall Limited, Spotland, Rochdale, England, a British company

Application January 23, 1940, Serial No. 315,192
In Great Britain November 14, 1939
6 Claims. (Cl. 209—2)



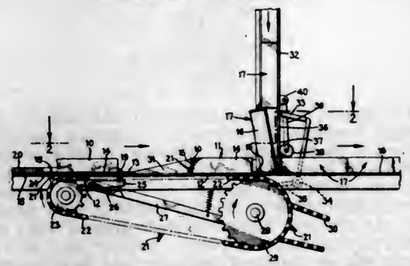
1. In an apparatus for recovering fibrous asbestos from asbestos-bearing rock in granular form, the combination of means for forming the granular material into a thin substantially uniform stream, high-speed rotary beating means adapted to strike said stream and feed it forward, means for feeding said stream to said beating means, at least one treatment casing arranged in series with said beating means, each of said treatment casings containing a high speed rotary beater comprising a plurality of beater arms projecting from a shaft, inlet and outlet passages for each of said treatment casings so disposed that the material impelled by the beater in the preceding casing is directed against the beater arms in the next casing in a region where they are moving against the path of the incoming material at high velocity, means independent of said beater means for setting up a continuous airstream adapted to pick up and bear said material through said casings; and baffle means arranged in the path of said airborne material after it leaves said treatment casings and adapted to remove the heavier particles from the asbestos.

2,280,904

PACKAGING

Arthur B. Erekson, Plymouth, Wis., assignor to The Borden Company, New York, N. Y., a corporation of New Jersey

Application November 19, 1940, Serial No. 366,212
8 Claims. (Cl. 93—3)



1. A method of packaging which comprises placing the article to be packaged on the bottom section of an unfolded container, folding three sides of the container against the sides of the article, placing the fourth side in overlapping relationship to an inside edge of a telescopic cover detached from the container, and folding said fourth side against the article by pulling the cover into closed position on the container.

2,280,905

FLOTATION OF MAGNESITE AND THE LIKE MAGNESIUM ORES

Arthur W. Fahrenwald, Moscow, Idaho, assignor to Northwest Magnesite Company, Chewelah, Wash., a corporation of Washington

No Drawing. Application April 16, 1941, Serial No. 388,881
2 Claims. (Cl. 209—167)

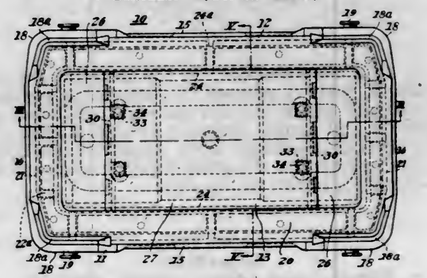
1. In a two-stage froth flotation method of beneficiating a magnesium ore in which siliceous gangue is removed from the ore in the first stage, and magnesium ore is floated from a further amount of gangue in the second stage, the improvement in said first stage which consists in subjecting the ore to flotation with methyl amyl alcohol as a collector of siliceous gangue to float said gangue, and separating the floated gangue from the ore and thereby producing an ore concentrate impoverished of said siliceous gangue.

2,280,906

STOOL FOR INGOT MOLDS

Howard Felsing, Wheeling, W. Va., assignor, by direct and mesne assignments, to William H. Warren, Steubenville, Ohio, and James A. Baker, Pittsburgh, Pa.

Application December 13, 1941, Serial No. 422,795
7 Claims. (Cl. 22—139)



1. In a stool for ingot molds, an outer metal shell including a bottom and side walls upstanding therefrom defining a receiving space, a metal rim cast in said shell, extending around the bottom inside said walls and covering only the peripheral portion of the bottom, and an insert removably disposed on said bottom and substantially filling the remainder of said space unoccupied by said rim.

2,280,907

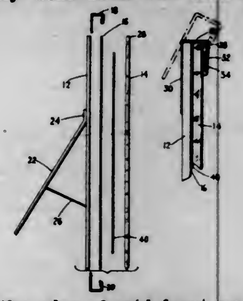
DISPLAY ASSEMBLAGE

Morris Fink, New York, N. Y.

Application December 14, 1939, Serial No. 309,193
4 Claims. (Cl. 40—155)

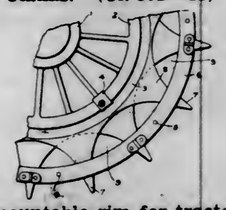
1. A readily separable display unit for the display of pictures or the like, said unit comprising a back, a glass front, an assortment of colored background sheets having the same dimension as the back and the glass and providing a variety of background colors any of which may be used,

and independent channel-shaped pieces of metal so dimensioned as to fit over the edge of the assemblage of back and background and glass with a snug friction fit, said channels having a comparatively wide back wall and a narrower



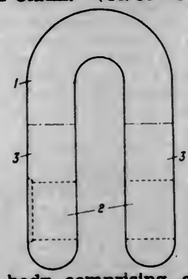
front wall, the edge of said front wall being reversely folded, and said channels being held in position solely by friction, whereby the display unit may be assembled and disassembled rapidly and without the use of tools.

2,280,908
TRACTOR WHEEL RIM
George E. Garey, Downs, Kans.
Application December 5, 1940, Serial No. 368,593
6 Claims. (Cl. 301—41)



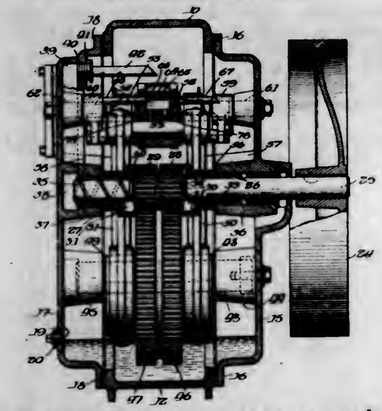
1. In a demountable rim for tractor wheels, a channel portion adapted to surround the wheel, outwardly flaring angular flanges on said channel portion, soil escape openings in said flanges, the openings in one flange being staggered in relation to the openings in the other flange, and means for retaining said rim on the wheel.

2,280,909
SHACKLE
Thomas Scott Glover, Airdrie, Scotland
Application January 3, 1942, Serial No. 425,533
In Great Britain February 6, 1941
1 Claim. (Cl. 59—86)



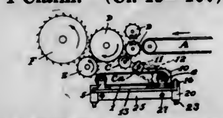
A shackle body comprising a bow member made from a piece of steel bar shaped to U-form and a pair of eye members each having a shank, said shanks being welded to the ends of the bow member.

2,280,910
LUBRICATING MEANS
William Horace Hazard, Dubuque, Iowa, assignor to A. Y. McDonald Mfg. Co., Dubuque, Iowa, a corporation of Iowa
Application October 30, 1939, Serial No. 301,873
2 Claims. (Cl. 184—11)



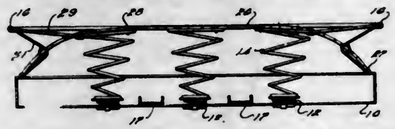
1. Means for lubricating the power mechanism of a deep well pump comprising a housing having an oil sump therein, shafts in said housing on which intermeshing gears are mounted, one set of gears running through the oil in the oil sump, the housing having an oil passage in one side thereof into which one of said shafts extends, one of said shafts having a spiral groove therearound leading from one of said gear wheels to the end of the shaft through which oil is forced into and through the passage in the housing, a walking beam having an oil trough therein with spaced partitions thereacross whereby oil receiving compartments are formed in said trough, one of said compartments being oil retaining at all times, a discharge pipe leading from the passage in the housing to discharge oil into the walking beam trough, and oil conveying pipes connected to said walking beam, the said walking beam having channels therein whereby oil is conveyed by gravity from compartments other than the oil retaining compartment through said conveying pipes and channels to other parts of the mechanism.

2,280,911
CARD BREAST WASTE SAVING APPARATUS FOR CARDING MACHINES
Sumner M. Hodsdon and Arthur A. Tidd, Wilton, Maine
Application March 13, 1940, Serial No. 323,738
1 Claim. (Cl. 19—107)



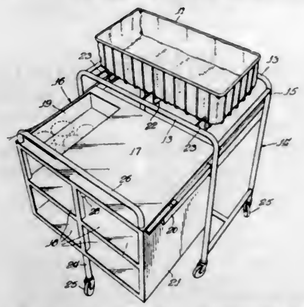
A device of the class described adapted for installing beneath the breast of a carding machine having a main carding cylinder, a feed-hopper apron and feed rolls thereon, comprising in combination with the lumper roll for said breast, an endless conveyor located beneath said breast one end thereof being remotely spaced with relation to said main carding cylinder and its opposite end so disposed beneath said feed-hopper apron that it may receive droppings of the waste material therefrom before they have entered said feed rolls, means to provide a "break" in the continuity of the feed of the waste material after having fallen on said conveyor and is proceeding on its course thereover, said break being for the purpose of slightly separating the line of waste material to permit dirt and foreign matter to be dislodged from the line before said lumper roll continues further movement of the waste material to the leader cylinder on its way to the breast cylinder and finally to the main card cylinder, and means to actuate said conveyor.

2,280,912
SPRING STRUCTURE
Henry Hopkes, Grosse Pointe, Mich., assignor to No-Sag Spring Company, Detroit, Mich., a corporation of Michigan
Application October 27, 1937, Serial No. 171,309
2 Claims. (Cl. 5—266)



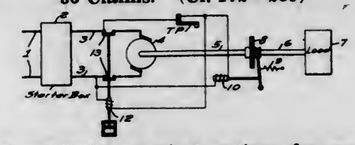
2. A spring unit embodying in combination, a base frame, spaced braces extending across said frame, resilient sinuous spring wire elements spanning said frame, said elements being permanently set upon an arch of less radius than the radius of the arch they assume when fixed in place to said frame and cross braces, coil springs supported directly on said resilient elements and connected thereto, a top frame element joined to said springs, and other like sinuous spring elements disposed across said last frame element above said coil springs at substantially right angles to said first named sinuous spring elements, said last named sinuous spring elements being connected to said coil spring elements and having their ends connected to said base frame.

2,280,913
BASSINET UNIT
Stuart K. Hummel, Joliet, and Perry W. Swern, Chicago, Ill.
Application December 9, 1940, Serial No. 369,150
8 Claims. (Cl. 5—2)



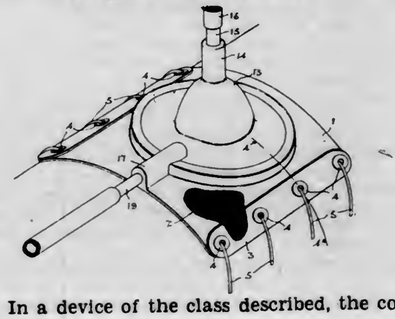
1. A bassinet unit for nurseries and the like comprising in combination a generally rectangular frame having a top provided with an opening therein and having bassinet supporting means adjacent said top, a rim comprising side and end members extending about said top for retaining a bassinet in place between said side members and permitting tilting of the bassinet by support of one end portion thereof on an end member of said rim, a service element telescopically connected to said frame and retractible to a position within the frame beneath said supporting means, the top of said service element having a dressing table member provided with an upstanding rim along its front or outer edge and having an adjacent depressed space open at the top adapted to contain articles used while caring for an infant and positioned, while the service element is retracted within said frame, below the opening in the top of the frame so that said articles are accessible through said opening, said service element being slidable outwardly to an extended position exposing said dressing table member for use and having below its top a compartment movable with the dressing table member and accessible through an opening in a vertical wall of the service element for storing additional articles, and means supporting the front side of the service element against tilting when in its extended position.

2,280,914
TEMPERATURE PROTECTION FOR INDUSTRIAL MOTORS
Francis J. Johns, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 4, 1939, Serial No. 259,827
36 Claims. (Cl. 172—239)



1. A protective control system for an electric motor comprising, an electric motor operative under loaded conditions or under substantially unloaded conditions, means for connecting said motor to a source of electrical energy, protective means operable in conformity to temperature conditions in said motor for protecting said motor against overheating, said protective means including means operable in accordance with motor temperatures for selecting under which of the aforesaid loaded or unloaded conditions the motor shall operate with the motor operating in said unloaded condition until the said temperature conditions protected against cease.

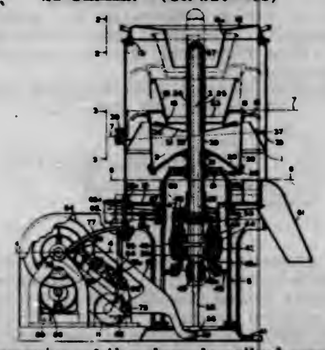
2,280,915
DEVICE FOR IRRIGATING AND TREATING WOUNDS
John H. Johnson, Toronto, Ontario, Canada
Application April 3, 1941, Serial No. 386,644
8 Claims. (Cl. 128—350)



8. In a device of the class described, the com-

bination of a flexible pad having an opening formed with a flanged edge to encircle a wound and form a seal therearound, means co-operating with said pad to form a drain passage on the outward side of said opening, a cupped extension connected with the aforesaid means and extending above the aforesaid opening and having an inlet thereto, means forming a tubular outlet from said drain passage, and a rigid reinforcing cup adapted to be inserted in said cupped extension and having the bottom thereof open and being formed with an extension engaging the flexible pad in supporting contact to support the drain passage against collapse, and means forming drainage communication from the interior of the rigid reinforcing cup through said drain passage to said tubular outlet.

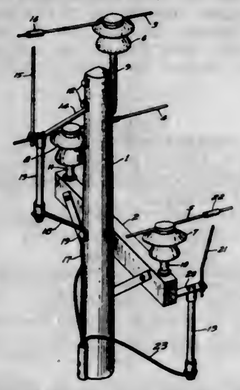
2,280,916
CENTRIFUGAL APPARATUS
Oscar W. Johnson, Rochester, N. Y., assignor to The American Laundry Machinery Company, Norwood, Ohio, a corporation of Ohio
Application November 23, 1938, Serial No. 241,927
21 Claims. (Cl. 210—73)



1. Apparatus of the class described comprising a container for a mixture composed of solid and liquid material, said container having a downwardly inclined bottom having a resilient gasket adjacent its outer periphery, an imperforate wall having elevated outlet openings and a reenforcing strip at the bottom edge which engages the resilient gasket on the periphery of the bottom when said container is in normal position, a movable control device, means for rotating said container to expel the liquid, means operatively associated with said control device for applying a reversing force counter to the direction of rotation of said container, so as to decelerate the rate of rotation after a substantial portion of the liquid has been expelled, and actuating means arranged below said container operatively associated with said control device and with the wall for raising the wall from the bottom while the container is undergoing deceleration to permit discharge of solid material from the container between the wall and the bottom.

2,280,917
MOUNTING FOR PROTECTIVE DISCHARGE DEVICES
Charles L. Jones, Dormont, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 23, 1939, Serial No. 257,868
3 Claims. (Cl. 175—30)

1. In combination, a wooden supporting structure for an overhead electrical transmission or distribution line having a plurality of conductors, an insulator mounted on the supporting structure for supporting one of said line conductors, an overvoltage discharge device mounted on the supporting structure, a common means for securing both the insulator and the discharge device to

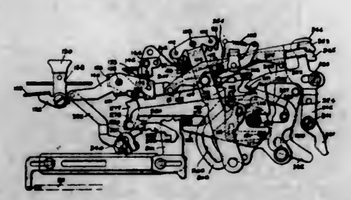


the supporting structure, the discharge device being connected in series between the insulator and ground, and a horn member mounted on the discharge device and extending towards the line conductor to form an air gap between the discharge device and the conductor in parallel with the insulator.

2,280,918
PREPARATION OF ORTHO-HYDROXY-CINNAMIC ACID
Jonas Kamlet, Brooklyn, N. Y., assignor to Miles Laboratories, Inc., Elkhart, Ind., a corporation of Indiana
No Drawing. Application October 25, 1940, Serial No. 362,839
15 Claims. (Cl. 260—521)

1. A process for preparing ortho-hydroxy-cinnamic acid which comprises reacting salicylal-acetone with a member of the group consisting of the alkali metal- and alkali-earth metal-hypohalites, and acidifying the resultant salt of o-hydroxycinnamic acid.

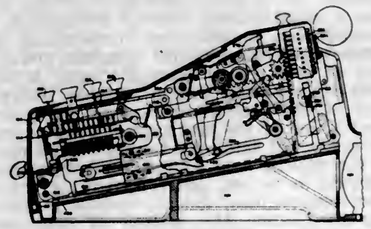
2,280,919
COMPUTING AND LISTING MACHINE
Walter W. Landsiedel, Elmira, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Original application March 13, 1936, Serial No. 68,694. Divided and this application November 3, 1938, Serial No. 238,596
4 Claims. (Cl. 235—60)



3. In a listing and computing machine, the

combination of a register cradle frame in which is supported two sets of intermeshed register wheels, actuators for said wheels, means for moving said cradle frame toward and from said actuators to engage and disengage said wheels and said actuators, a device for reversing said cradle whereby positive and negative amounts may be entered in said register wheels, a fugitive one mechanism for controlling said cradle reversing device, printing mechanism including printing hammers controlled by said actuating racks for printing said positive and negative totals, a bail movable from and to normal position for restoring said printing hammers, a type bar for printing a character to identify a printed negative total, a latch for restraining said type bar from moving to printing position, a trunnion for said cradle frame to engage said latch and disable same when said cradle is moved toward said actuators, a second latch for restraining said type bar from moving to printing position, a cam on said second latch cooperative with said restoring bail whereby said latch is disabled when said restoring bail moves from normal position, holding means to restrain said type from moving to printing position, and means under control of said cradle reversing device whereby said holding means is effective when said register wheels contain a positive total and rendered ineffective when said register wheels contain a negative total.

2,280,920
COMPUTING MACHINE
Walter W. Landsiedel, Elmira, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Original application April 6, 1936, Serial No. 73,020. Divided and this application March 17, 1939, Serial No. 262,351
3 Claims. (Cl. 235—60)



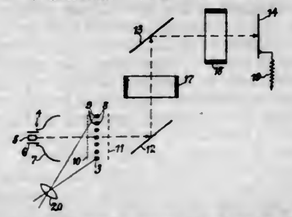
1. In an adding and listing machine, the combination with registering mechanism, numeral printing mechanism, total taking control mechanism and control keys including a sub-total key for modifying the operation of the machine, of means for printing characters designating different operations, said means comprising a character type carrier, a stepped stop member for controlling differential settings of said type carrier, a cam moving with said total taking control mechanism, operable means under control of said cam to move said member to a point to cause said type carrier to be arrested in position to print a total designation, a second cam moving with said total taking control mechanism, and means actuated upon depression of said sub-total key to move said operable means out of cooperative relation with said first cam and into cooperative relation with said second cam whereby said member is moved to a point to cause the arrestment of said type carrier in position to print a sub-total designation.

2,280,921
SLIDE BUCKLE
Jerome R. La Vigne, Waterbury, Conn., assignor to The Waterbury Buckle Company, Waterbury, Conn., a corporation of Connecticut
Application April 10, 1940, Serial No. 328,811
3 Claims. (Cl. 24—197)



1. A slide-buckle comprising: a first buckle-member having two spaced-apart end-bars and two complemental side-bars which together with the said end-bars define a slot through the first buckle-member; a second buckle-member cooperating with the said first buckle-member and also having two spaced-apart end-bars and two laterally-spaced-apart side-bars defining a slot through the second buckle-member; one of the said buckle-members being narrower than the slot in the other of said buckle-members and extending through the last-mentioned slot between the side-bars bordering the same for sliding movement with respect to the other of said buckle-members; and one of the end-bars of one of the said buckle-members being provided with a gripping-tongue extending toward the other complemental end-bar and extending over the face of one of the end-bars of the other of said buckle-members to grip a strap therebetween.

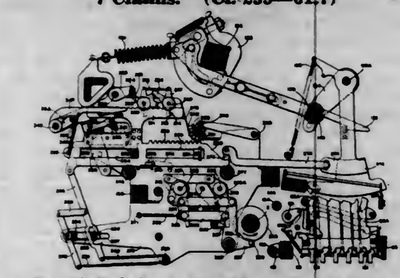
2,280,922
ELECTRON DISCHARGE DEVICE
Hans Gerhard Lubszynski, Hillingdon, England, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain
Application January 15, 1937, Serial No. 120,701
In Great Britain January 16, 1936
7 Claims. (Cl. 178—7.2)



1. An electron discharge device suitable for use in television and like systems, comprising an evacuated envelope containing an electron permeable light responsive structure upon which a light image is adapted to be projected and constructed to develop and retain an electrostatic charge image, a source of electrons for producing a focused electron beam of substantially constant current intensity for scanning one side of said electron permeable structure to project electrons through said structure, the electron beam being modulated in intensity in passing through said electron permeable structure during the scan-

ning of said structure by reason of the electrostatic charge image developed on said structure, a first target electrode positioned on the side of the structure opposite the said one side that is scanned, said first target electrode being adapted to receive the scanning beam of electrons projected through said structure, and a collecting electrode or anode arranged in a position to receive secondary electrons liberated as a result of impact of said modulated cathode ray beam on said first target electrode whereby the target electrode and the collecting electrode or anode constitute a direct current amplifier, at least one state of amplification being employed.

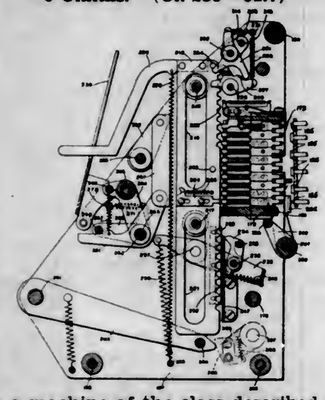
2,280,923
STATISTICAL MACHINE
Joseph M. McDonnell, Ozone Park, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application July 29, 1937, Serial No. 156,304
7 Claims. (Cl. 235—61.7)



1. In a tabulator adapted to operate upon serially numbered record cards arranged in a plurality of groups of sequentially numbered cards, record sensing means, a normally inactive total-taking control device, a rack controlled by said sensing means for setting up a representation of a digit of the number of each card, a second rack, means under control of the total-taking control device to advance the second rack with the first rack when the number of the first card of a series is being set up, normally effective means to retain the second rack in a setting representative of the number of the first card of a series, cyclically operated means to change this retained setting to the representation of the assumed number of successive cards, cyclically operated means to compare the settings of the two racks, and means operated by the comparing means to render active said total taking control device when the settings of said racks do not represent the same number.

7. In a tabulator adapted to operate on serially numbered sequentially arranged record cards, the combination of a record sensing device, an accumulator, a normally inactive total-taking control device, a naught block associated with said accumulator, cyclically operated means tending to operate the naught block for each machine cycle to add one into said accumulator, means under the control of the total-taking control device to disable the naught block during a total taking cycle and during the sensing of the first card of a group after a total-taking cycle, means operated by the sensing device to enter the number of the first card of a group into the accumulator when the naught block is disabled, a group of settable elements cyclically operated and controlled by the sensing device to represent the serial number of successive cards, a second group of settable elements, means under the control of the total-taking control device and operative on the first machine cycle after a total-taking operation to effect the setting of the second group of elements to represent the serial number of the first card of a group, cyclically operated mean to change the successive settings of the second group of elements to represent the serial number the next card should have, cyclically operated means to engage and compare said groups of settable elements, and means operated by the comparing means when the settings do not agree to render active said total-taking control device whereby a total is extracted from the accumulator.

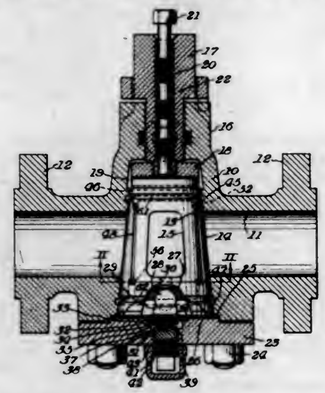
2,280,924
STATISTICAL MACHINE
Joseph M. McDonnell, Ozone Park, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application September 25, 1937, Serial No. 165,661
6 Claims. (Cl. 235—61.7)



4. In a machine of the class described adapted to operate on serially numbered record cards, having a total taking control mechanism and record sensing means, the combination of a number-representing device settable under the control of said record sensing means, a second number-representing device settable under the control of the first number-representing device to the number of the first card of a group, means under control of said total taking control mechanism for causing said second number-representing device to be set under control of the first number-representing device, cyclically operated means to change the setting of said second number-representing device by one unit each cycle, means periodically moved each cycle for initiating an operation of said total taking control mechanism, and means on the second number-representing device and operated by the first number-representing device to block the operation of the initiating means when the settings of the two number-representing devices correspond.

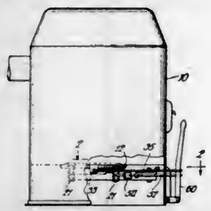
2,280,925
HIGH TEMPERATURE VALVE
Sven J. Nordstrom, Lafayette, Calif., assignor to Merco Nordstrom Valve Company, Pittsburgh, Pa., a corporation of Delaware
Original application September 27, 1938, Serial No. 231,906, now Patent No. 2,255,182, dated September 9, 1941. Divided and this application October 21, 1940, Serial No. 362,025
2 Claims. (Cl. 251—112)

1. A valve comprising a casing having a passageway therethrough and a tapered valve seat formed transversely of the passageway, a cover having a central opening secured to the casing for closing the larger end of the seat, a tapered plug seated in the valve seat and having a hole adapted to register with the passageway, a separate operating stem passing through the casing in sealing relation thereto and engaging the smaller end of the plug, a sealing diaphragm interposed between the valve cover and the casing, a plate having a substantially flat surface



engaging said diaphragm and having a raised periphery on the opposite side, inherently resilient spring metal washers in said central opening supported at their peripheries by the raised periphery of said plate, means on the opposite side of the diaphragm for transmitting the thrust of said washers against the plug, and means in the cover for deflecting said washers to force the plug into its seat.

2,280,926
FURNACE GRATE MECHANISM
Marvin R. Olsen, Glen Ellyn, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application March 27, 1939, Serial No. 264,357
6 Claims. (Cl. 126—169)



1. In combination with a furnace, a grate mounted for rotation in a horizontal plane for shaking the fuel bed and for rotation on a horizontal axis for dumping said bed, means for shaking said grate and means for dumping said grate, said shaking and dumping means each including an element extending outwardly of the furnace, said elements being in closely spaced horizontal relation, a coupling device on each of said elements, and a lever pivotally mounted outside of said furnace between said elements and movable only toward and away from said furnace and transversely of said first-mentioned movement into engagement with one or both of said coupling devices, whereby said lever is operable to actuate either or both of said shaking and dumping means.

2,280,927
MEANS AND APPARATUS FOR PREPARING INLAY CAVITIES
David W. Phillips, Chicago, Ill.
Application July 2, 1941, Serial No. 400,737
3 Claims. (Cl. 32—48)



1. A dental bur, comprising a shaft provided at its end with circularly-disposed cutting knives, a non-cutting shank portion extending from said knives and having straight parallel portions cut away along lines parallel with the long axis of said shaft to form debris escapes, the edges formed by said debris escapes with said shank portion having obtuse angles, and a depth-limiting shoulder formed integrally with said shaft, said debris escapes terminating at said shoulder.

2,280,928
CHLORINATION OF METHANE
Paul F. Pie, Jr., Newark, Del., assignor to Darco Corporation, Wilmington, Del., a corporation of Delaware
Application March 4, 1939, Serial No. 259,768
22 Claims. (Cl. 260—662)

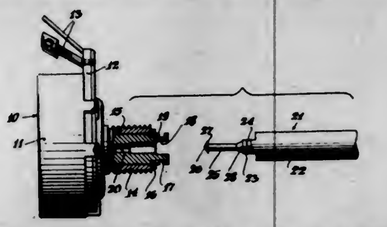
1. The process of chlorinating methane which comprises passing a mixture of chlorine and methane through a contact mass consisting essentially of a catalyst for the chlorine-methane reaction of relatively low heat conductivity and a diluent of relatively high heat conductivity, the gases, in their passage through the contact mass, contacting portions of the mass having progressively increasing catalytic activity.

14. Apparatus for the chlorination of methane comprising a reaction chamber provided with an entrance for the mixture of chlorine and methane and an exit for the reaction product, said reaction chamber containing, between the entrance and the exit, a contact mass consisting essentially of a catalyst for the chlorine-methane reaction of relatively high catalytic activity and of relatively low heat conductivity and a diluent of relatively high heat conductivity, the proportion of catalyst in said contact mass progressively increasing and the amount of the diluent progressively decreasing toward the exit of the reaction chamber.

2,280,929
ELECTRIC CONTROL SHAFT
Joseph C. Rah, Indianapolis, and Oscar V. Hadley, Plainfield, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
Application December 4, 1940, Serial No. 368,436
3 Claims. (Cl. 287—104)

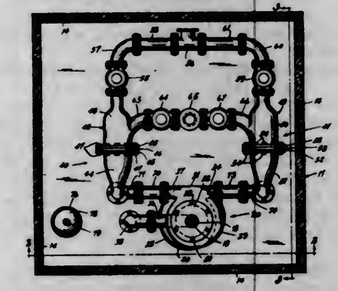
3. A control shaft coupling for adjustable electrical devices comprising a pair of shafts having interfitting portions for keying them together end to end, and means for aligning said shafts and preventing loose play therebetween comprising a longitudinal bore extending inward from the end of one of said shafts, said bore having a larger diameter outer portion and a smaller di-

ameter inner portion, and a longitudinal post on the end of the other of said shafts, and a flange on the end of said post having a diameter intermediate the diameters of the larger and smaller ends of said bore, whereby said post may be first inserted part way into said bore to align the in-



terfitting portions of said shafts and then pressed further into said bore to bring said interfitting portions into final keyed relation and to bring said flange into firm engagement with said smaller diameter inner portion of said bore to produce a tight fit.

2,280,930
PUMPING EQUIPMENT
William H. Reeves, St. Louis, Mo.
Application March 22, 1940, Serial No. 325,284
6 Claims. (Cl. 103—3)



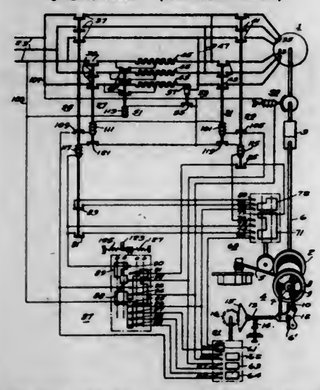
1. Pumping apparatus comprising a first pumping means, a second pumping means, each pumping means being designed to pump liquid against a positive head when rotating in one direction and to exhaust liquid to a negative head when rotating in the opposite direction, means for driving said pumping means first in one direction and then in the opposite direction, means connecting the first pumping means with a source of solid-laden liquid supply, means connecting said first pumping means with a point of disposal, means connecting said first pumping means with a receptacle, means connecting the second pumping means with the source of solid-laden liquid supply, means connecting said second pumping means with a point of disposal, means connecting said second pumping means with the receptacle, means to prevent return of liquid from either disposal-connecting means to either source-connecting means, and means in each of said source-connecting means for preventing the passage of larger solids to the pumping means, said last means also being in a portion of the disposal-connecting means, said pumping means being disposed so that one draws liquid from the source into the receptacle while the other forces liquid from the receptacle to the place of disposal, whereby one solid-blocking means is being cleaned while the other is fulfilling its screening function.

2,280,931
VENETIAN BLIND
Adelbert Ford Rice, Cleveland, Ohio
Application May 1, 1941, Serial No. 391,389
10 Claims. (Cl. 156—17)



1. In a Venetian blind, in combination, a tilt bar, a bottom rail, spaced inner and outer tapes connecting said bar and rail, slats disposed at the inner side of the inner tape supporting members for said slats attached thereto and passing through the inner tape, anchoring means connecting the supporting members of each slat with the outer tape, the said slats being accessible over their entire surfaces at the space at the inner side of the inner tape, means for actuating the tilt bar to move the tapes and thereby effect tilted or horizontal adjustments of the slats, and means for raising the bottom rail for collapsing the slats together.

2,280,932
AUTOMATIC MOORING WINCH
Walter Schaelchlin, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 26, 1939, Serial No. 252,943
9 Claims. (Cl. 254—172)



8. A winch system comprising a squirrel cage motor provided with one set of stator windings for slow speed operation and a second set of stator windings for high speed operation, a source of alternating current energy for the motor, a reeling drum operated by the motor, a cable operated by the drum, means responsive to the cable tension, a controller operated by the said means responsive to cable tension, said controller being movable to a high tension position when the cable is subjected to a given high tension and being movable to a low tension position when the cable is subjected to a given low tensions, means responsive to the cable length paid-out by said reeling drum, a second controller operated by the means responsive to the cable length paid-out by the reeling drum, and switching means selectively controlled by said controllers for connecting the windings of the motor to the source of alternating current energy either to operate the motor at slow speed in response to the tension in the cable or at high speed in response to the length of the cable paid-out by the reeling drum.

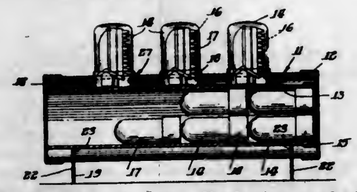
2,280,933
TEXTILE PRODUCT
George Schneider, Montclair, N. J., assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application March 2, 1939, Serial No. 259,389
10 Claims. (Cl. 28—1)

1. Artificial filaments, yarns or other filamentary products characterized by having a greatly reduced running tension, said products comprising filaments or yarns comprising an organic derivative of cellulose and containing uniformly dispersed therein a mass composed of a plastic material and finely divided insoluble material of substantially the same index of refraction as the organic derivative of cellulose, the amount of insoluble material being insufficient to affect materially the transparency or luster of the filaments or yarns, which finely divided material has been reduced to a fine state of subdivision by a squeezing, rubbing or kneading action while dispersed in the plastic mass.

2,280,934
PROCESS OF PREPARING SYNTHETIC RESIN MOLDING MATERIALS CONTAINING FILLERS
Fritz Seebach, Erkner, near Berlin, Germany, assignor, by mesne assignments, to Bakelite Corporation, a corporation of New Jersey
No Drawing. Application May 12, 1938, Serial No. 207,510. In Germany May 15, 1937
14 Claims. (Cl. 260—38)

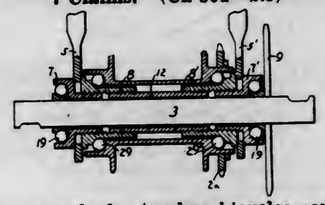
1. Process of preparing a moldable composition from a filler of loose absorptive fibers and about 20 to 50 per cent of a binder which comprises densifying the loose fibrous filler containing not more than 2 to 10 per cent of adhesive by highly compressing between rolls into sheet form to cause a material reduction in volume of the fibers with a decrease in absorptiveness, grinding the densified sheeted filler, and incorporating a binder with the densified filler in amount to provide a composition having from about 20 to 50 per cent of the binder.

2,280,935
PACKAGE AND DISPLAY CARTON
Roderick G. Stevens, Jr., Chicago, Ill.
Application December 27, 1938, Serial No. 247,862
12 Claims. (Cl. 206—44)



7. A display carton for displaying and storing articles comprising an outer casing, said outer casing being provided with openings therein whereby the articles may fit into said openings and extend interiorly of the casing, a stand for supporting the outer casing comprising portions adapted to engage the outer casing in supporting relationship, a supporting member adapted to be arranged interiorly of said outer casing and in spaced relation to said openings to engage the inner extremities of articles inserted within said openings for positioning said articles in said openings with the opposite portions projecting outwardly thereof in display relationship, and means associated with said stand and said member to support said member in said predetermined relationship with respect to said openings when the carton is in assembled position, said member cooperating with said casing to provide a substantial interior space for the storage of additional articles interiorly of the casing, said stand comprising a foldable member with spaced, supporting walls having cooperable receiving surfaces for said outer casing, tab means extending beyond said cooperable receiving surfaces to support said member in said predetermined, spaced relation with respect to said apertures and slots in said outer casing for permitting said tabs to extend into engagement with said member.

2,280,936
CONVERTIBLE TANDEM BICYCLE
David A. Swanson, Chicago, Ill.
Application August 6, 1940, Serial No. 351,588
7 Claims. (Cl. 301—2.5)

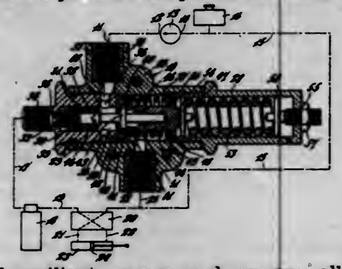


1. A rear axle for tandem bicycles comprising a hub, a tubular section within the hub and having a radial abutment member at the ends, each abutment member having a surface positioned beyond the ends of the hub, respective fork ends abutting said surfaces, a tubular bearing support adjustably engaged in each abutment member for clamping action against respective fork ends, each bearing support having a bearing assembly outwardly of the fork ends, and a crank shaft journalled in and projecting beyond said bearing assemblies.

2,280,937
PRESSURE REGULATING DEVICE FOR FLUID SUPPLY SYSTEMS
Peter Warborn Thornhill and John Keith Simpson, Leamington Spa, England, assignors to Automotive Products Company Limited, Leamington Spa, Warwickshire, England
Application April 25, 1941, Serial No. 390,418
In Great Britain February 26, 1940
3 Claims. (Cl. 137—153)

1. A device for the regulation of fluid pressure in a reservoir supplied thereto by a pump, compressor or the like comprising an axially movable valve adapted to open under the influence of a predetermined pressure, resilient means urging said valve to its closed position, a piston member slidably mounted relative to and normally abutting said valve and arranged to be acted upon by pressure fluid when the valve member opens, and a second resilient means associated with said piston member for holding the valve and piston member in their closed positions so constructed

and arranged that as the valve opens under the influence of pressure the piston will compress the



second resilient means and remove all force thereof from the valve.

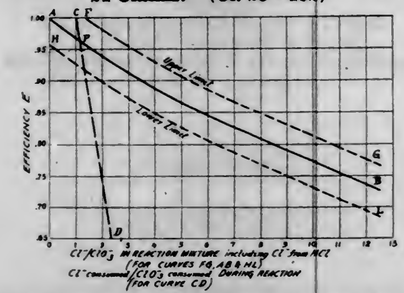
2,280,938

PREPARATION OF CHLORINE DIOXIDE, ClO_2

George Paul Vincent, Poughkeepsie, N. Y., assignor to The Mathieson Alkali Works, Inc., New York, N. Y., a corporation of Virginia

Application October 24, 1939, Serial No. 301,066

21 Claims. (Cl. 23—152)



1. In the production of gas mixtures comprising chlorine dioxide and chlorine by reacting at a temperature within the range of about 15° C. to 60° C. an aqueous reaction mixture containing water equal to about 50% to 75% by weight and having dissolved therein a soluble inorganic chlorate, an inorganic acid and chloride ion, the improvement which comprises employing during substantially all of the reaction period chloride ion and inorganic chlorate in proportions providing a total chloride to initial chlorate ion ratio not lower than about 1.15 and not greater than about 12.5, and employing acid in an amount providing an equivalent molar ratio of acid to initial chlorate not substantially lower than a ratio expressed by the equation $H^+/ClO_3^-=6—4E$ where E is an efficiency value for the reaction falling substantially on the curve AB of Fig. 2 and substantially on the ordinate of the total chloride to initial chlorate ion ratio, and in an amount capable of producing a yield of chlorine dioxide at least as great as that produced by hydrochloric acid when the hydrogen ion to chlorate ion ratio approximates 3.5.

9. In the production of gas mixtures comprising chlorine dioxide and chlorine by reacting at a temperature within the range of about 15° C. to 60° C. an aqueous reaction mixture containing water equal to about 50% to 75% by weight and having dissolved therein calcium chlorate and calcium chloride in proportions providing an initial chloride to chlorate ion ratio approximating 5, with sulfuric acid, improvement which comprises employing during substantially all of the reaction period sulfuric acid in an amount providing an equivalent molar ratio of acid to initial chlorate not substantially lower than 2.55, and in an amount providing an equivalent molar ratio of acid to initial chlorate not greater than about 23

10. In the production of gas mixtures comprising chlorine dioxide and chlorine by reacting at a temperature within the range of about 15° C. to 60° C. an aqueous reaction mixture containing water equal to about 50% to 75% by weight and having dissolved therein a soluble inorganic chlorate, with hydrochloric acid, the ratio of initial chloride ion from any soluble chloride salt present to initial chlorate ion being not greater than about 9.5, the improvement which comprises employing during substantially all of the reaction period hydrochloric acid in an amount providing an equivalent molar ratio of acid to initial chlorate not substantially lower than a ratio expressed by the equation $H^+/ClO_3^-=6—4E$ where E is an efficiency value for the reaction falling substantially on the curve AB of Fig. 2 and substantially on the ordinate of the total chloride to initial chlorate ion ratio, and not substantially higher than a ratio of 3.5.

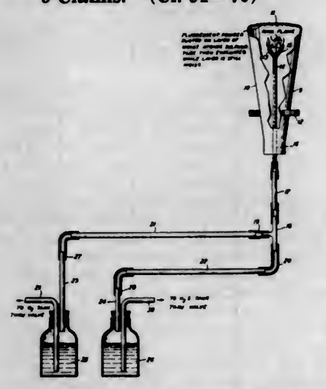
2,280,939

LUMINESCENT SCREEN

Howard W. Weinhart, Elizabeth, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application April 5, 1940, Serial No. 327,959

5 Claims. (Cl. 91—70)



1. A method of binding fluorescent material to a supporting member comprising the steps of burning a mixture of hydrogen sulphide and oxygen to produce a thin film of sulphur on the supporting member for said fluorescent layer, said burning also producing water, and applying fluorescent powder to the film while it is still moist.

2,280,940

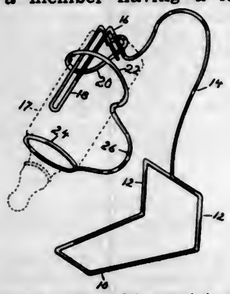
BOTTLE HOLDER

Lillian G. Wightman, Chicago, Ill.

Application September 23, 1939, Serial No. 296,177

3 Claims. (Cl. 248—107)

1. In a bottle holder, a base comprising a substantially rectangularly shaped wire member, a standard projecting upwardly from said base, the upper portion of said standard being curved forwardly and thence downwardly, a bottle guard formed of a part of the forwardly projecting portion of said standard, a pair of bottle supporting members in association with said standard, parts of said members engageable with the shoulder and the base of a bottle, and means for maintaining said bottle supporting members in aligned operable relation one with the other, said means comprising a member having a longitudinally



curved manually adjustable part to maintain the shoulder and base engaging parts in engagement with the shoulder and the base of bottles of various lengths.

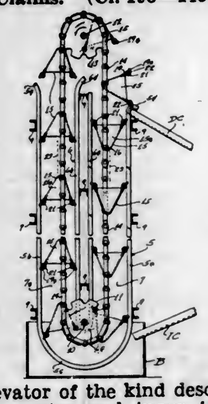
2,280,941

AUTOMATIC DUMP BUCKET ELEVATOR

Rex Adams, Galatia, Ill., assignor of one-fourth to Michael Shannon, Johnston City, Ill.

Application September 4, 1941, Serial No. 409,516

3 Claims. (Cl. 198—145)



1. In an elevator of the kind described, a supporting frame, outer and inner U-shaped rail units or tracks transversely aligned in parallel relation at each side of the frame, the rail unit at each side including outer and inner rails spaced apart in a common plane, extended vertically in parallel relation, curvedly connected at their lower ends and flared asunder at their open, upper ends, shafts journaled transversely through the upper and lower portions of the frame, the lower shaft within the bights of the inner rail units and the upper shaft above the upper ends of the inner rail units, both shafts in a plane passed centrally through the inner rail units, drive sprockets keyed onto the ends of the shafts, inside the frame and in working alignment at each side, endless sprocket chains trained over the drive sprockets at each side, a plurality of elongated dump buckets V-shaped in cross-section extended transversely between the sprocket chains at each side in spaced relation and pivotally connected at their angularly closed bottoms to the sprocket chains, the buckets being dimensioned to travel freely in either upright or inverted position between the outer and inner rail units, and means for upsetting the buckets outwardly as they rise in upright position at the top of the rail units at one side of the apparatus.

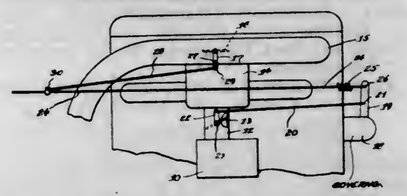
2,280,942

ENGINE

William Engstrom, Muskegon, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a corporation of Virginia

Application July 22, 1940, Serial No. 346,824

9 Claims. (Cl. 123—122)



1. In an engine having fluid intake and exhaust means, a carburetor connected with said intake means and a throttle valve associated therewith, a governor, means connecting said governor with said throttle valve, intake heating means associated with said exhaust means and including a control device for regulating the amount of heat transmitted to said intake means, means manually operated to adjust said governor to control engine operation, and means connecting said governor adjusting means directly with said heat control device to vary the adjustment of said heat control device in accordance with the adjustment of said governor.

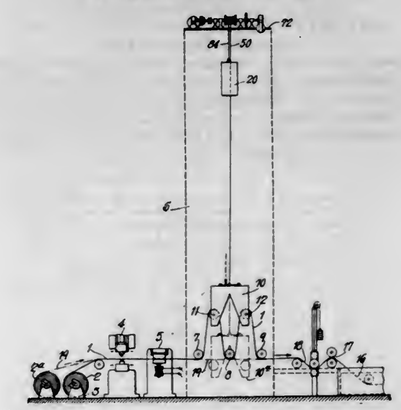
2,280,943

APPARATUS FOR HANDLING METAL STRIP

John F. Ferm, Midland, Pa., assignor to Crucible Steel Company of America, New York, N. Y., a corporation of New Jersey

Application January 30, 1941, Serial No. 376,659

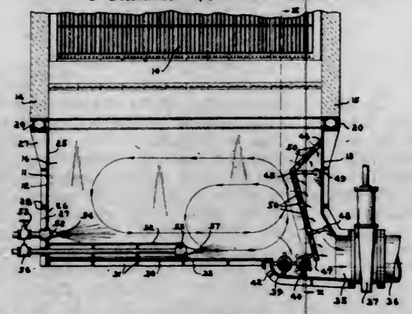
10 Claims. (Cl. 271—2.2)



1. Apparatus for feeding strip material continuously from an intermittent source, comprising: a series of rolls over which the strip is fed, an elevatable carriage for displacing certain of said rolls with respect to others for variably looping the strip therebetween, a cable and drum for elevating said carriage, a motor and interposed magnetic clutch for releasably driving said drum, a magnetic brake therefor, switch actuated relay means for energizing said motor and clutch and for releasing said brake to elevate said carriage, means including a switch responsive to a preselected elevation of said carriage for deenergizing said motor and clutch and actuating said

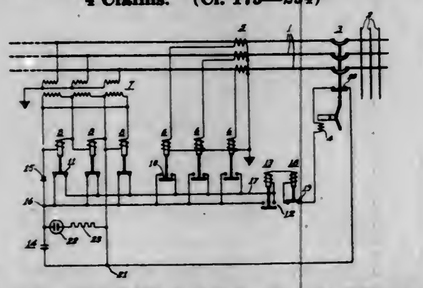
brake, and means including a switch responsive to subsequent descent of said carriage to a lower elevation, for releasing said brake.

2,280,944
MATERIAL-HANDLING APPARATUS
Robert A. Foresman, Prospect Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 1, 1940, Serial No. 332,642
5 Claims. (Cl. 110—171)



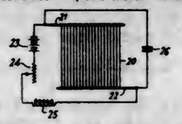
1. In an ash disposal system, a storage hopper having an ash inlet at the top and a discharge outlet at the bottom, valve mechanism for controlling said discharge outlet, a grid in said hopper adjacent the discharge outlet for preventing passage therethrough of clinkers exceeding a predetermined size, and hydraulic means for repeatedly projecting clinkers against said grid to reduce the size of said clinkers.

2,280,945
CAPACITOR TRIPPING DEVICE FOR CIRCUIT BREAKERS
Gayne D. Gamel, Verona, and Lloyd W. Dyer, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 31, 1940, Serial No. 348,808
4 Claims. (Cl. 175—294)



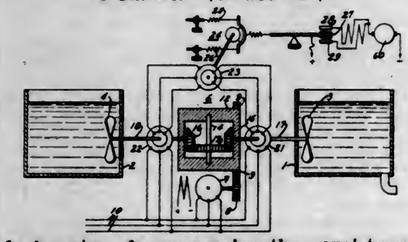
1. A circuit-breaker system for an alternating-current line, comprising: a circuit breaker having main contacts in series with the line; electrical tripping-means for tripping said circuit-breaker to actuate the latter to an open-circuit condition; a unidirectional-current bus; a capacitor permanently connected across the terminals of said unidirectional-current bus; a line-energized voltage-circuit adapted to be energized from across the line on one side of the main contacts of the breaker; rectifier-means for charging said capacitor from said line-energized voltage-circuit; circuit-means for at times energizing said tripping-means from said unidirectional-current bus; and means operative in a predeterminedly short time, independently of the tripping operation of the circuit breaker, after the energization of said tripping-means to deenergize said tripping-means, said short time being sufficiently short to insure that the capacitor does not lose more than a predetermined fraction of its charge, and said short time being sufficiently long to build up sufficient magnetic energy in the tripping-means to carry through the tripping operation.

2,280,946
THERMAL OPTICAL IMAGE REPRODUCING SYSTEM
Alfred N. Goldsmith, New York, N. Y.
Application November 1, 1939, Serial No. 302,309
9 Claims. (Cl. 250—164)



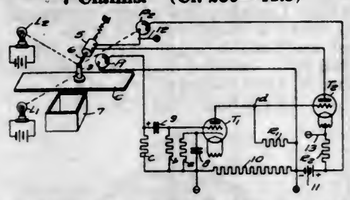
1. In a cathode ray tube, a current conducting thermally responsive target element adapted to incandesce under the influence of electron bombardment, means to develop an electron stream and to direct the stream upon the target, means to direct the stream to traverse the target linearly according to a predetermined scanning path throughout a definite working area of the target, and means for passing a current through the target along a path at all times substantially normal to the selected predetermined scanning path, said current being impressed onto said target through only one pair of diagonally opposite terminals onto a pair of low resistance conductors lying along substantially opposite segments of the boundary of the target.

2,280,947
CONSISTENCY REGULATOR
Finn H. Gulliksen, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 6, 1938, Serial No. 206,431
5 Claims. (Cl. 265—11)



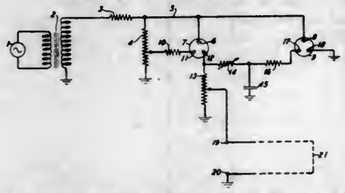
1. A system for measuring the consistency of a pulp solution, comprising means for holding a sample of the solution to be tested, a propeller immersed therein and means for rotating the propeller; means for holding a standard solution, a propeller therein similar to the propeller in the sample solution and rotating means therefor, and adjusting means in the standard solution for adjusting its impeding reaction to the propeller rotation so as to be equivalent to the reaction of the sample solution to its propeller when the consistency of the sample solution is substantially that desired, means for equalizing the torques upon both propellers, means response to a difference in the speeds of the respective propellers in their respective solution.

2,280,948
INSPECTION SCHEME
Finn H. Gulliksen, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 7, 1939, Serial No. 293,735
7 Claims. (Cl. 250—41.5)



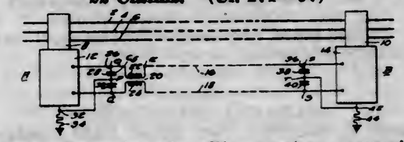
1. An electrical control system comprising, in combination, a light source, a light responsive device cooperating therewith to detect the presence of an object, energy storing means and an impulse controlled electrical discharge device connected to said light responsive device so as to be responsive solely to the rate of change of illumination on the light responsive device, a second light responsive device in electrical circuit relationship with said first light responsive device, a second electric discharge device, relay means operable solely in response to a predetermined simultaneous condition of conductivity of both of said electric discharge devices.

2,280,949
ELECTRIC SIGNALING
Nathan I. Hall, Long Island City, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 21, 1941, Serial No. 375,200
6 Claims. (Cl. 250—27)



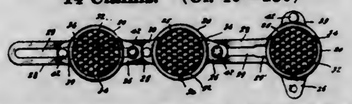
1. The combination in an impulse system of a discharge tube, an impulse conductor, a source of alternating voltage, circuit means for applying said source to said tube to cause the discharge of said tube when the wave of said voltage source reaches a definite value, a discharge circuit having a resistance element therein through which current flows following the discharge of said tube, the resultant voltage across said resistance element serving to produce an impulse in said impulse conductor, a condenser, circuit means for applying to said condenser the voltage of said resistance element to charge said condenser to a given voltage in a predetermined interval following the discharge of said tube, a second discharge tube, circuit means connecting said condenser thereto for causing the discharge of said second tube at the end of said predetermined interval, and a discharge circuit for said second tube for quenching said first tube to terminate said impulse.

2,280,950
PILOT WIRE SYSTEM WITH MEANS FOR NEUTRALIZING INDUCED VOLTAGES
Edwin L. Harder, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 13, 1941, Serial No. 393,184
22 Claims. (Cl. 171—97)



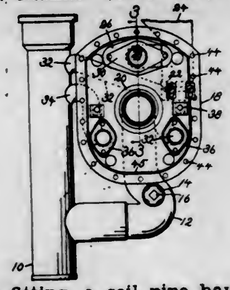
1. A pilot wire signalling system comprising spaced terminals and a pair of pilot wires therebetween, said pilot wires conducting signal current between said terminals, and being subject to longitudinal in-phase voltages, means for reducing the effects of said longitudinal in-phase voltages, said means comprising a neutralizing transformer including a pair of closely coupled windings, a winding of said neutralizing transformer being in each of said pilot wires, and circuit means on the pilot wire side of said terminals for causing said longitudinal voltages to produce an exciting current-flow in one of said pilot wires for magnetizing said neutralizing transformer whereby induced voltages are produced therein for opposing said longitudinal voltages, said circuit means having non-capacitive impedance only.

2,280,951
HIGHWAY SIGNAL
Okla H. Hershman, Indianapolis, Ind.
Application October 13, 1939, Serial No. 299,249
14 Claims. (Cl. 40—130)



10. In a device of the class described, a series of interconnected links, and light reflecting elements carried by said links, each of said links having a pair of outwardly extending ears one of which is provided with an elongated slot and the other of which is provided with means pivotally and slidably received in the slot of an adjacent link.

2,280,952
PIPE FITTING
Victor A. Hoffmann, Harvey, Ill.
Application November 4, 1940, Serial No. 364,175
7 Claims. (Cl. 4—252)



1. In pipe fitting, a soil pipe having an extension projecting at right angles thereto, said extension being turned upwardly and then forwardly to provide a siphon action discharge pipe,

a supporting plate secured to the upwardly turned portion of said discharge pipe, means positioned at the rear of said plate for supporting a flush tank, a siphon breaking passageway operably connected to said soil pipe closely adjacent the upper end thereof, said siphon breaking pipe being adapted to be extended and be connected to said discharge pipe below the normal water level of said device, a plurality of securing nut receiving recesses formed in the face of said plate, and means whereby wall members may be secured to said plate.

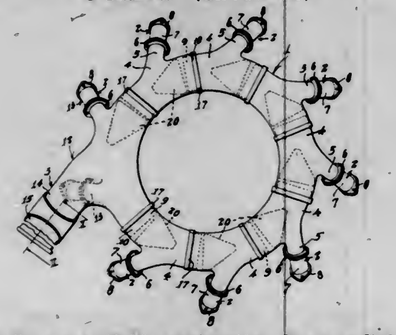
2,280,953

EXHAUST STRUCTURE

Russell C. Huntoon, San Diego, Calif., assignor to Solar Aircraft Company, San Diego, Calif., a corporation of California

Application October 12, 1940, Serial No. 360,865

5 Claims. (Cl. 181—40)



1. In a manifold construction for a radial internal combustion engine, means defining a continuous annular passage, inlet ducts extending from said means defining said annular passage for conveying exhaust gases from different engine cylinders into said annular passage, said inlet ducts being inclined circumferentially, whereby gases are discharged therefrom into said annular passage with a tangential component, discharge means connected to said annular passage for conveying gases therefrom, and a plurality of baffle members mounted in said annular passage for retarding circulation of gases therethrough.

2,280,954

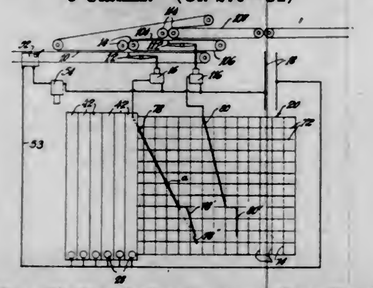
FOLDING MACHINE

Leo M. Kahn, New York, N. Y., assignor to The American Laundry Machinery Company, Norwood, Ohio, a corporation of Ohio

Application September 22, 1939, Serial No. 296,059

In Great Britain September 22, 1938

5 Claims. (Cl. 270—81)



1. In a timing device for a machine for folding articles, the combination comprising an element, means for moving said element along a two-directional path for a distance which is a function of the length of an article to be folded, and folding means set in operation by said element at the end of said path and adapted for folding said article, said path lying on a cylindrical surface and including a portion parallel to the axis of said cylinder and a circumferential portion.

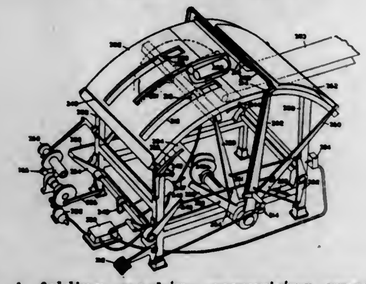
2,280,955

FOLDING MACHINE

Leo M. Kahn, New York, N. Y., assignor to The American Laundry Machinery Company, Norwood, Ohio, a corporation of Ohio

Original application September 22, 1939, Serial No. 296,059. Divided and this application November 27, 1940, Serial No. 367,410

12 Claims. (Cl. 270—61)



1. A folding machine comprising means for fixing a portion of an article in position, and means for operating said fixing means when the mid point of one side of the article is adjacent said fixing means, and means for folding the article about the portion thereof which is fixed in position.

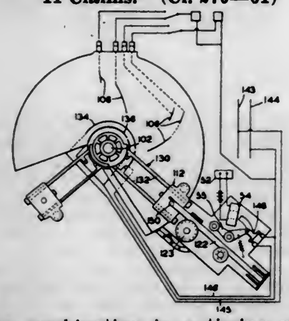
2,280,956

FOLDING MACHINE TIMING MECHANISM

Leo M. Kahn, New York, N. Y., assignor to The American Laundry Machinery Company, Norwood, Ohio, a corporation of Ohio

Original application September 22, 1939, Serial No. 296,059. Divided and this application November 27, 1940, Serial No. 367,411

11 Claims. (Cl. 270—61)



1. The combination in a timing mechanism, with a rotary contact carrier and a support provided with fixed contacts adjacent the path of said carrier, of a contact button held mechanically and movably by said carrier, means for shifting said button along said carrier toward and from the axis thereof and into operative relation with certain of said fixed contacts, and electric means on said carrier for holding said button mechanically against said carrier.

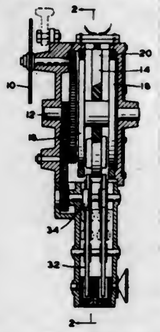
2,280,957

FOLDING MACHINE

Leo M. Kahn, New York, N. Y., assignor to The American Laundry Machinery Company, Norwood, Ohio, a corporation of Ohio

Original application September 22, 1939, Serial No. 296,059. Divided and this application May 29, 1941, Serial No. 395,788. In Great Britain September 22, 1938

4 Claims. (Cl. 270—61)



1. The combination in a timing mechanism with a rotary contact carrier and a support adjacent to one face of said carrier provided with fixed contacts, of a plurality of contact buttons between which and said rotary carrier magnetic relation exists to cause the contact buttons to adhere movably to the face of the rotary carrier in any adjusted position, means for releasing one contact button at a time to the action of the rotary carrier, means for shifting the button movably along the face of the rotary carrier to a predetermined position in proper relation to any one of said fixed contacts, and means for returning the contact button to its original position, said original position being outside the magnetic influence of said rotary contact carrier.

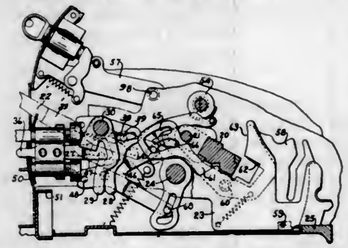
2,280,958

CASH REGISTER

James W. Kelly, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Application May 20, 1939, Serial No. 274,675

3 Claims. (Cl. 235—27)



1. In a cash register having two registering departments, one of which is normally selected on each operation of the machine, the combination of a selecting key which when operated selects for the next machine operation the department not normally selected; a lock for the key; an auxiliary member which when operated selects the department as if the selecting key were operated; means for operating said auxiliary member; a second lock; means operated by the second lock to connect the auxiliary member to its operating means so as to be operated each machine operation; and a movable support for both of said locks, which support if moved renders the first-mentioned lock ineffective and causes the means operated by the second lock to be moved with the second lock and disconnect the auxiliary member from its operating means.

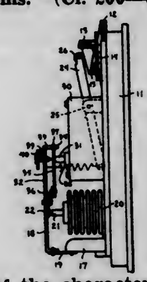
2,280,959

DIFFERENTIAL ADJUSTMENT

Carl G. Kronmiller, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application December 7, 1939, Serial No. 308,005

12 Claims. (Cl. 200—83)



1. In a device of the character described, an operating mechanism of the self return type in which a predetermined force is required to actuate it in one direction and a predetermined smaller force will prevent it from returning to its original position, a control device shifted between two positions of operation by said mechanism, an actuating member for said mechanism, means applying an initial force to said member sufficient to hold said mechanism in actuated position but incapable of exerting a sufficient force to actuate it, and means for supplying an additional force independently of said last mentioned means to actuate said mechanism and then removing said additional force and some of said initial force to permit said mechanism to return to its original position.

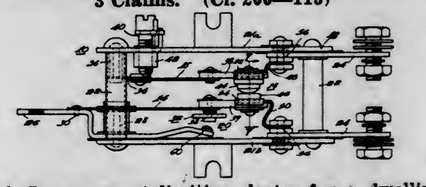
2,280,960

CURRENT LIMITING RELAY

Paul R. Lee, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 20, 1939, Serial No. 300,421

3 Claims. (Cl. 200—113)



1. In a current limiting device for a dwelling house electric power circuit which disconnects a portion of the household circuit when the total power demand of the household is above a predetermined value, the combination of a supporting structure, a first bimetallic member resiliently attached to the supporting structure, a movable contact insulatedly attached to said bimetallic member, a terminal means insulatedly attached to the supporting structure, means connecting the movable contact and the terminal means comprising at least in part a flexible strap, a

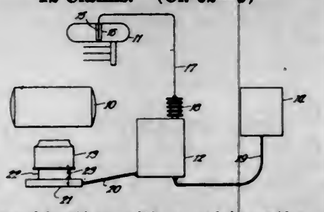
second bimetallic member attached to the supporting structure, said members moving in a common direction a like amount with changes in ambient temperature, a second movable contact insulatedly attached to the second bimetallic member, said second contact engaging said first contact during normal operations of the device, a second terminal means attached to the supporting structure, means at least in part flexible connecting the second contact with the second terminal means, two main terminal means positioned upon and insulated from the supporting structure, contact means positioned upon the upper surfaces of the inner ends of the main terminal means, said second bimetallic member being attached to the main terminal means whereby said second bimetallic member is in series with such main terminals, a jumper contact attached to the second bimetallic member so as to engage the contact means upon the terminal means when said second bimetallic member has flexed to its fully open position whereby the current normally flowing through the second bimetallic member will be shunted through said main terminal means, said second bimetallic member flexing in response to the passage of a current through the main terminals whereby upon such current increasing above a predetermined value said member will flex so as to disengage the cooperating first and second contacts, and adjusting means supported by the supporting structure and engaging the first bimetallic member for adjustably positioning such member to selectively determine the predetermined current for disengaging said first and second contacts.

2,280,961
CONTROL MECHANISM FOR ABSORPTION REFRIGERATORS

John Lithgow and Leslie K. Jackson, Cleveland, Ohio, assignors to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York

Application August 25, 1939, Serial No. 291,986

12 Claims. (Cl. 62—5)



1. In combination with a refrigeration device of the intermittent absorption type, including an evaporator and a generator heated by a liquid fuel burner, a metering means, a fuel supply connected to said metering means by a fuel supply line, a valve interposed in the fuel supply line, means to connect the metering means to the burner, including a second valve, means responsive to a predetermined increase in temperature in said evaporator to open said first valve to supply fuel to the metering means, and means operated by said metering means to close the first mentioned valve and open the second mentioned valve to supply a measured quantity of fuel to the burner.

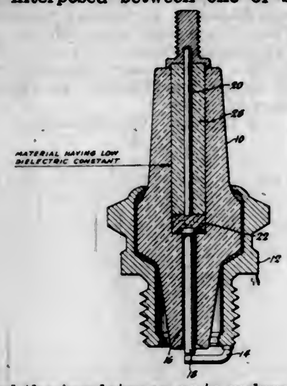
2,280,962
SPARK PLUG

Taine G. McDougal, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application July 24, 1940, Serial No. 347,091

4 Claims. (Cl. 123—169)

1. A spark plug comprising spaced electrodes, an insulator between the said electrodes, and material having lower dielectric strength than the insulator interposed between one of said electrodes and the insulator so as to reduce the electrical stress in the insulator and prevent corona discharge or flashover.

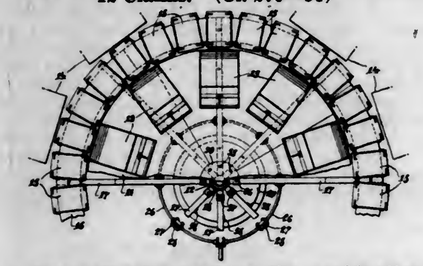


2,280,963
GATHERING MACHINE

Norman D. Mitchell, Park Ridge, Ill.

Application August 23, 1941, Serial No. 408,039

12 Claims. (Cl. 270—58)



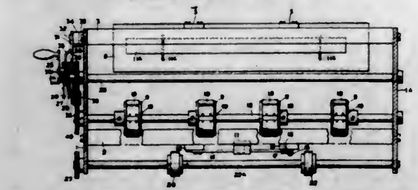
1. In a gathering machine, the combination of a stationary, substantially circular table, supply cabinets removably and adjustably mounted on said table, operator stations about said table, opposite said supply cabinets and a ring of removably and adjustably mounted collecting trays rotatably mounted below said table, in between said cabinets and operator stations.

2,280,964
PAPER FEED MECHANISM

Harold P. Mixer, Rockville Centre, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware

Application May 29, 1941, Serial No. 395,796

1 Claim. (Cl. 271—23)



In a paper feeding device, the combination of a plate, feed rollers and spring-pressed separating knife supporting a stack of sheets of paper,

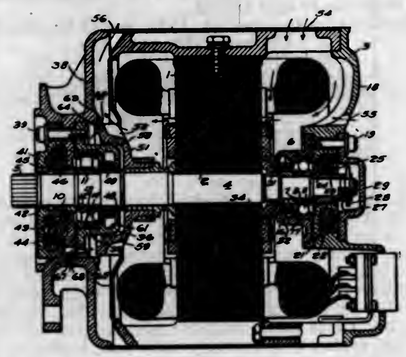
said rollers being fixedly mounted on a shaft operatively connected with cam-controlled gearing means, in which the movement of one cam forces a pinion to be swung in a path of rotation substantially the same as that of a drive gear and thus to remain stationary to act in conjunction with the drive gear in causing a gear of the feed roller operating shaft to revolve momentarily in reverse, and in which the movement of a complementary cam forces the pinion to be swung in a path of rotation opposite that of the drive gear, thus to be revolved itself and impart a forward motion to the gear of the feed roller operating shaft similar to that of the drive gear and which will be in the line of feed of the sheets of paper.

2,280,965
LUBRICATION AND COOLING OF ANTI-FRICTION BEARINGS

Erich O. Mueller, Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Original application October 7, 1939, Serial No. 298,463. Divided and this application March 9, 1940, Serial No. 323,210

4 Claims. (Cl. 171—252)



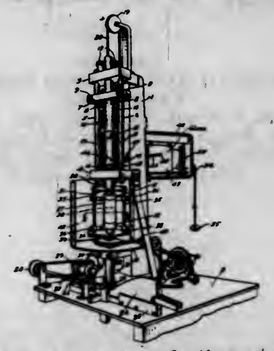
1. A combined bearing and ventilating assembly for one end of a machine having an enclosing, relatively stationary casing and an enclosed, relatively stationary stator-member therein, a relatively rotating shaft which is supported, at one end, in said combined bearing and ventilating assembly, and a rotor-member carried by said shaft in cooperative relation to said stator-member, said combined bearing and ventilating assembly comprising a casing-supported bearing-housing having its inner end-portion extending into a close-running oil-sealing relation to the shaft, a lubricated, shaft-supporting bearing-member within said bearing-housing, a shaft-supported, dished, imperforate fan-supporting member disposed in spaced relation to said inner end-portion of the bearing-housing, and a plurality of fan-blades projecting inwardly from said fan-supporting member for causing a movement of a ventilating fluid within the casing of the machine, said assembly being characterized by a narrow, close-running clearance-space between a portion of said dished fan-supporting member and a part of said bearing-housing for impeding the suction of the ventilating fluid from said close-running oil-seal between said inner end-portion of the bearing-housing and the shaft, and means for providing inlet-means for admitting ventilating fluid by-passing the bearing and communicating from outside of the machine-casing to a space between the fan-supporting member and the bearing-housing, and between the narrow, close-running clearance-space and the close-running oil-seal.

2,280,966
COMPRESSION TESTER FOR PLASTIC MATERIALS

Arpad Nadai and Harold C. Harrison, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 26, 1940, Serial No. 315,698

11 Claims. (Cl. 265—12)



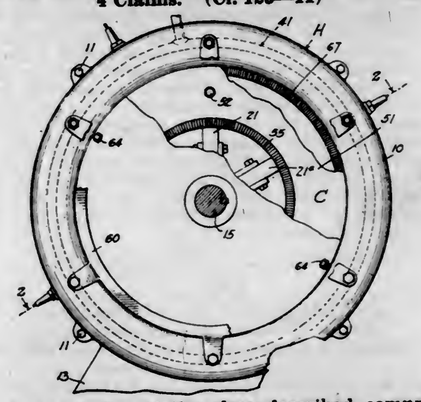
1. Apparatus for testing plastic material comprising means for compressing a test piece at a predetermined rate, means for cutting off portions bulging from said test piece as a result of the compressive force to maintain constant the cross-sectional area thereof in a plane perpendicular to the direction of the compressive force, and means for indicating the reaction of said test piece to said stress.

2,280,967
ROTARY ENGINE

Harry G. Nelson, Lompoc, Calif.

Application October 21, 1940, Serial No. 362,008

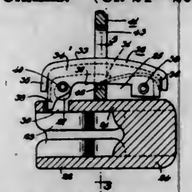
4 Claims. (Cl. 123—11)



1. An engine of the class described comprising: an element mounted for rotation about a fixed axis; a stationary housing having an annular bore concentric to said axis; a plurality of piston and cylinder units mounted for rotation independently of each other about said axis with the cylinders having a working fit in said bore, and the pistons of each unit working in the cylinders of the outer unit; fuel supply means for

the cylinders; means for igniting fuel charges in the cylinders; means for holding one unit against rotation and operatively connecting the other unit to said element alternately; means whereby fuel will be inducted, compressed, ignited and exhausted by co-action of the pistons and cylinders in synchronism with the operation of the last means so as to impart a step by step progressive rotational movement to said element by power impulses delivered alternately by the units; and means through which cooling air will be inducted into and exhausted from the cylinders by co-action of the cylinders and pistons during the cycle of operation, so as to dissipate heat from the cylinders.

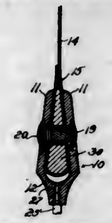
2,280,968
AUTOMATIC LOCK SLIDER FOR SLIDE FASTENERS
Arthur B. Newhall, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania
Application August 15, 1941, Serial No. 406,978
6 Claims. (Cl. 24—205.5)



4. In a slider for slide fasteners, a slider body having a fastener member guide channel therein, a longitudinal lug projecting from one side of said slider body, a hollow locking member extending over said lug and pivotally connected to said lug at one end, said locking member having a projection adjacent its free end projectible into said channel for locking said slider and retractible therefrom for unlocking said slider, yielding means acting between said lug and said locking member for constantly urging the free end of said locking member toward said slider body to project said projection into said channel and lock said slider, said lug having aligned trunnion receiving recesses at opposite sides intermediate its length, a pull member having at one end a pair of oppositely, inwardly directed trunnions complementary to said recesses and disposed therein for pivotally connecting said pull member directly to said lug, and cam members on said pull member adjacent said trunnions, said cam members engaging said hollow locking member and lifting the free end portion of said locking member against the force of said yielding means and maintaining said locking member in unlocked position in one position of said pull member.

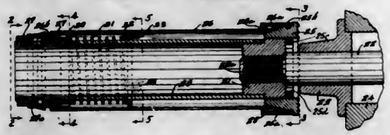
2,280,969
SHADE-PULL ATTACHMENT
Joseph O'Malley, New Bedford, Mass.
Application August 14, 1940, Serial No. 352,504
3 Claims. (Cl. 156—40)

1. A shade-pull comprising a molded yoke-shaped body whose tines are adapted to embrace and fit flatwise against the opposite sides of an apertured fabric-covered window shade stick, said tines being each formed with a hole extending therethrough having a countersink at its outer end and said two holes being axially alined relatively and also with respect to the aperture of said stick; an interiorly threaded tubular nut occupying one of said holes, said nut being made at its outer end with a head seated against the bottom of the countersink of its hole so that the periphery of said head is housed within said countersink, and a screw occupying the other hole with its shank in threaded engagement with



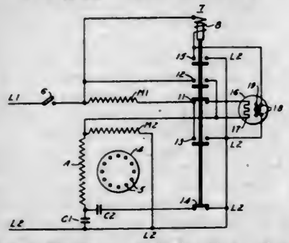
said tubular nut, said screw being made at its outer end with a head seated against the bottom of the countersink of its hole so that the periphery of said head is housed within said countersink.

2,280,970
CONTRACTING MANDREL
John G. O'Neil, Faribault, and Lawrence G. Zesbaugh, Minneapolis, Minn.; said Zesbaugh assignor to said O'Neil
Application October 24, 1940, Serial No. 362,558
7 Claims. (Cl. 242—72)



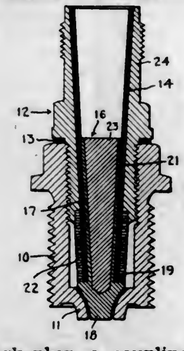
5. A collapsible mandrel having in combination, a core member adapted to be attached to a supporting spindle, conical members at the ends of said core member having their surfaces tapering in the same direction, a shell of comparatively thin material formed of a plurality of slightly spaced longitudinally divided segments supported at their ends on said conical surfaces, a coil spring surrounding said core between said supporting members and members at the inner sides of said segments acted on by said spring to move said segments longitudinally.

2,280,971
LOW-STARTING-CURRENT MOTOR
Lewis C. Packer, Longmeadow, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 7, 1940, Serial No. 322,778
4 Claims. (Cl. 172—279)



4. A three-winding self-starting single-phase induction motor having relatively rotating primary and secondary members, the primary member having two main primary windings and a spatially dephased auxiliary winding, the secondary member having a polyaxially short-circuited secondary winding, starting means including connections for starting the motor with the two main windings connected in series with each other across the single-phase supply line, and with the auxiliary winding connected across only one of the main windings with the capacitance-means connected in series with the auxiliary winding, running means including connections for connecting all three of the primary windings in parallel across the single-phase supply line, with a capacitance-means connected in the auxiliary-winding circuit, a current-responsive control-means included in a circuit-conductor which is energized when the starting connections are made but not when the running-connections are made, an electrically energized control-means responsive to a response of said first-mentioned control-means for changing from the starting connections to the running-connections, at least one of said control means having a sufficiently sluggish action so that, between them, a sufficient starting-time is provided for the motor, and means for thereafter maintaining the electrical energization of the second-mentioned control-means so long as, and only so long as, the motor remains energized from said single-phase supply-line.

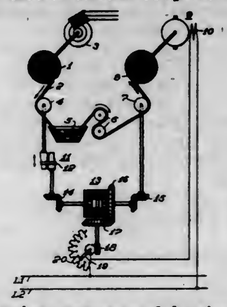
2,280,972
SPARK-PLUG CONSTRUCTION
George M. Paulson, New York, N. Y.
Application August 21, 1940, Serial No. 353,445
12 Claims. (Cl. 123—169)



1. In a spark-plug, a coupling nut having a downwardly tapered opening, a tapered spindle held in said opening and extending downward from the coupling nut, a shoulder on the spindle, and insulation clamped between the shoulder and a surface of the coupling nut and holding the spindle against upward displacement in the coupling nut.

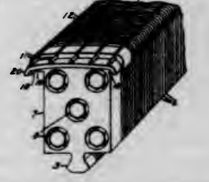
2,280,973
WINDING MACHINE
Hermann Philippi, Berlin-Spandau, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 30, 1939, Serial No. 282,184
In Germany August 13, 1938
5 Claims. (Cl. 242—75)

5. A winding machine including, in combination, a winding drum for winding lengths of flexible material thereon, driving means for said winding drum, an unwinding drum having, in operation, a length of flexible material disposed thereon, said material being disposed between said drums and, in operation, unwound from the unwinding drum and wound on the winding drum, means responsive to the peripheral speed of the unwinding drum, means responsive to the peripheral speed of the winding drum, a differential transmission coupled to both said



speed responsive means and having an element responsive to the speed difference of said speed responsive means, and means, responsive to said element, for controlling the speed of the driving means for the winding drum.

2,280,974
DAMPER WINDING
Ernest I. Pollard, Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 30, 1939, Serial No. 282,157
2 Claims. (Cl. 172—120)



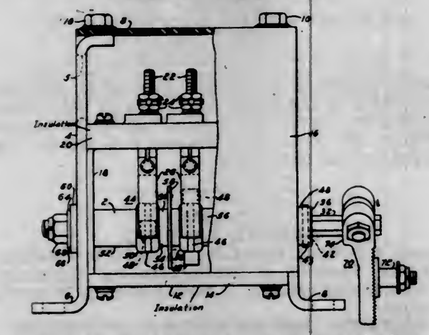
1. In a dynamo-electric machine, a rotor member having a plurality of salient pole pieces thereon, each pole piece having an outer peripheral face and laterally extending pole tips, a plurality of conducting bars placed in slots in the face of each pole piece, additional conducting bars on each pole piece placed in slots in the bottom surfaces of the pole tips, and means for connecting all the bars on each pole piece together at both ends, the bars being connected together only on the individual pole pieces.

2,280,975
HYDROGENATION OF INVERTIBLE SACCHARIDES
James T. Power, Wilmington, Del., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Original application August 17, 1938, Serial No. 225,349. Divided and this application September 19, 1941, Serial No. 411,487
6 Claims. (Cl. 260—635)

1. The process of producing polyhydroxy compounds from an invertible saccharide selected from the group consisting of oligosaccharides and polysaccharides, which comprises dissolving said saccharide and acid in water to form an aqueous solution with an acid strength sufficient to hydrolyze the saccharide, hydrolyzing the said saccharide in said acid solution to monosaccha-

ride, and concurrently in the same operation hydrogenating said monosaccharide to polyhydroxy compounds of the same number of carbon atoms with hydrogen under pressure, in the presence of a hydrogenating catalyst, and at a temperature below that at which splitting of the carbon-carbon bond occurs.

2,280,976
SWITCH
Ernest K. Read, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 30, 1939, Serial No. 282,158
7 Claims. (Cl. 200—8)



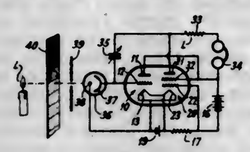
1. In a switch having an operating shaft and a plurality of contact members rotatably mounted on said shaft, with each contact member including laterally extending shoulders at opposite sides thereof, the combination of a pair of driving members of flexible material for each contact member positioned at said opposite sides thereof and slidably and non-rotatably mounted on said shaft, and means for releasably engaging said contact member and driving members, with the driving members engaging said contact member between the contact shoulders to move the edges of said driving members into wedging relation with said contact members.

2,280,977
HIGH TEMPERATURE HEATING UNIT AND METHOD OF MAKING SAME
Reinhold Reichmann, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 30, 1940, Serial No. 332,508
In Germany February 10, 1939
4 Claims. (Cl. 201—67)



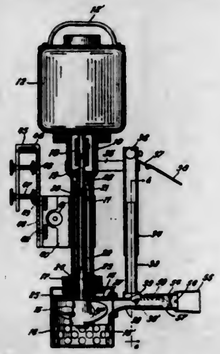
2. A high-temperature heating unit comprising, a tubular ceramic body of cylindrical form, a helical groove on the outside of said body, a helical non-metallic refractory closure closing said groove, said closure substantially matching said groove, a high-temperature metallic refractory heating element swelled in said groove through heating at high temperatures, and a snug-fitting gas-tight non-metallic refractory outer cover around said body and closure.

2,280,978
NEGATIVE TRANSCONDUCTANCE DEVICE
Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 20, 1939, Serial No. 310,115
9 Claims. (Cl. 250—41.5)



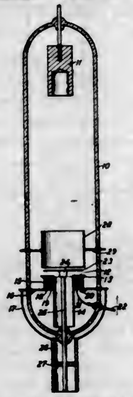
1. A negative transconductance system comprising a first stage and a second stage of electron discharge devices each having a grid-to-cathode circuit and a cathode-to-anode circuit, a load resistor and a single source of anode voltage common to said cathode-to-anode circuits, an additional load in the cathode-to-anode circuit of the second stage, control means connected to the grid of the first stage, and a direct connection from the grid of the second stage to the junction between said resistor and said source.

2,280,979
HYDROTHERAPY CIRCULATOR
William Rocke, South Bend, Ind.
Application May 9, 1941, Serial No. 392,646
4 Claims. (Cl. 4—180)



1. In an adjustable hydrotherapy circulator adapted to be mounted from the rim of tanks having various depths and shapes. an adjustable inwardly extending bracket adapted to be supported from the rim of the tank, a telescoping radially adjustable support tube within the tank carried by the bracket, a drive motor on the top of the tube, an impeller pump on the bottom of the tube, telescoping driving connections between the motor and the pump within the tube, an adjustable inlet guard mounted on the bottom of the pump, a radial pump outlet on the pump, a telescoping adjustable air inlet on top of the pump outlet in injection relation thereto extending to and supported from the top of the tube, and nozzle attachment means on the pump outlet, whereby the circulator pump may be mounted near the bottom of tanks having various depths and shapes, with the motor slightly above the tank, with the pump inlet and drive guarded, and variable water-air currents created and adjustably directed radially.

2,280,980
ELECTRON DISCHARGE DEVICE
Arthur L. Samuel, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 21, 1941, Serial No. 375,113
6 Claims. (Cl. 250—27.5)



1. An electron discharge device comprising a hollow cathode structure including an annular substantially plane electron emissive surface, a control electrode coaxial with said surface and substantially parallel thereto, said surface and said control electrode being electrically symmetrical with respect to the common axis thereof, an electron receiving element, means enclosing said cathode structure, electron receiving element and control electrode, a linear leading-in conductor connected to said control electrode, coaxial with and extending through said structure, and means for shielding said leading-in conductor comprising a hollow metallic member electrically integral with said emissive surface and coaxial with and encompassing said conductor.

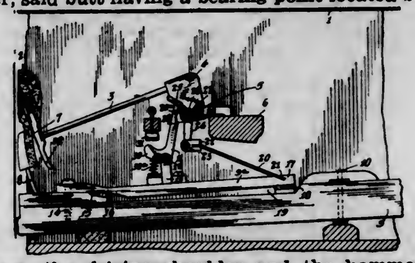
2,280,981
FABRICATION OF LAMINATED METAL OBJECTS
Arthur E. Schuh, Riverton, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 17, 1939, Serial No. 299,816
13 Claims. (Cl. 29—189)



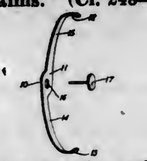
6. The method of forming laminated metal objects which comprises coating a plurality of metal sheets with a solution of a thermoplastic adhesive, allowing the coating to dry, piling the metal sheets on top of one another, subjecting the pile to a pressure of the order of one ton per square inch at a temperature above the softening point of the adhesive, allowing the pile to cool while maintaining the pressure and machining the resultant block to the desired shape.

2,280,982
REPEAT ACTION FOR GRAND PIANOS
Carl Schulze, Santa Barbara, Calif.
Application February 3, 1941, Serial No. 377,130
7 Claims. (Cl. 84—239)

2. In a piano action, the combination of a hammer having a shank with a butt, a pivotal support for the hammer butt, said butt having a driving shoulder, an actuating lever, a driving jack pivotally supported on the actuating lever and engaging the driving shoulder for swinging the hammer forward, resilient means for pressing the driving jack into contact with the driving shoulder, set-off means cooperating with the jack to move the same out of contact with the shoulder during the forward movement of the hammer, said butt having a bearing point located between the driving shoulder and the hammer's pivot, a counterbalancing jack for the hammer having a flexible joint supported on the actuating lever, having a connection to, and thrusting against, the hammer butt at said bearing point, said counterbalancing jack operating to retard the return of the hammer and thereby allow time after the actuating lever has been moved to, and held in, its extreme position, for the driving jack to re-engage with the driving shoulder, for striking a repeat note.



2,280,983
WIRE SUPPORTING CLIP
Herbert F. Stover, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 2, 1940, Serial No. 322,040
2 Claims. (Cl. 248—71)

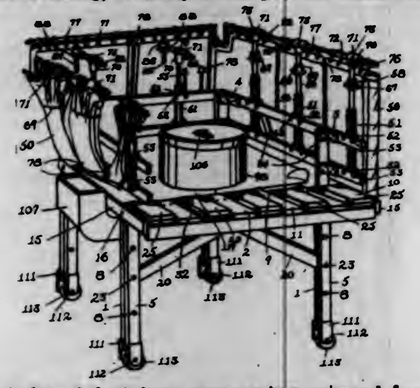


1. A fastener for securing cable to supporting surfaces comprising a centrally apertured metal body portion, a pair of arms integral with said body portion and extending in opposite directions in offset relation with each other, both of said arms gripping the cable when bent thereabout, the ends of said arms being bent inwardly around a sharp radius to firmly grip the surface of the cable, and means passing through the aperture in the body portion of said fastener for securing it to a supporting surface.

2,280,984
PORTABLE BOOTH
Carl G. Thurnau, Utica, N. Y.
Application August 2, 1940, Serial No. 349,774
5 Claims. (Cl. 304—9)

1. In a portable booth, uprights for supporting a platform and side bars, sleeve members attached to said side bars, adjustable rods mounted in said sleeves, horizontally disposed rods carried by said last named rods, curtains carried on said horizontal bars, a hollow casing mounted in said booth and a fan mounted in said hollow casing

to cause an outflow of air from the booth to said hollow casing, whereby it will prevent fumes and



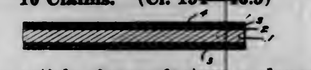
particles of dust from progressing outward from said booth.

2,280,985

PRINTING PLATE SUPPORT

William Craig Toland and Ellis Bassist, Brookline, Mass., assignors to William Craig Toland, trustee

Application November 25, 1939, Serial No. 306,141
10 Claims. (Cl. 154—46.5)



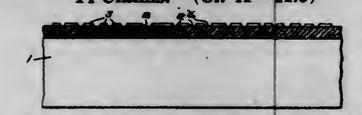
1. As an article of manufacture, a planographic printing element comprising a web of paper which has been impregnated with a waterproofing material to resist stretching and separation of its fibers when subjected to the planographic printing processes, a water-receptive paper bonding sheet secured at one side of the said web of paper and a film of a water-receptive colloid applied at one side of the said bonding sheet, said film being adapted to form the non-printing portions of a planographic printing plate.

2,280,986

COATING MATERIAL

William Craig Toland and Ellis Bassist, Brookline, Mass., assignors to William Craig Toland, trustee

Application January 16, 1941, Serial No. 374,694
14 Claims. (Cl. 41—41.5)



1. As an article of manufacture a planographic printing plate presenting printing portions and non-printing portions, said non-printing portions including a water-absorptive material, a filler, and a water-repellent substance.

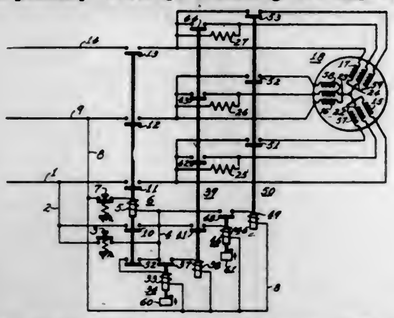
2,280,987

METHOD AND CONNECTION FOR STARTING ALTERNATING CURRENT MOTORS

Hans Trassl, Berlin-Siemensstadt, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 15, 1940, Serial No. 365,823
In Germany October 31, 1939
9 Claims. (Cl. 172—289)

9. In a starting control for an alternating current motor, in combination, an alternating current motor having a plurality of primary windings, impedance means in series circuit with one of said primary windings, a source of alternating current, electromagnetic means for connecting the primary windings including the impedance



means in their circuits to said source of alternating current, a time limit relay controlled by said electromagnetic means, electromagnetic means, set in operation by the operation of the time limit means, for connecting the remaining primary windings to the source of alternating current.

2,280,988

PENCIL COMPOSITION

Mary Louise Weiser, Los Angeles, Calif., assignor to Walt Disney Productions, Los Angeles, Calif., a corporation of California

No Drawing. Application November 14, 1939, Serial No. 304,388
4 Claims. (Cl. 106—19)

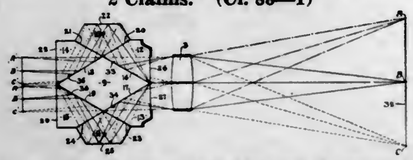
4. A pencil composition adapted to form a difficulty removable stain on the surface of objects made of cellulose derivatives and organic plastics which comprises: a base containing 50% to 90% by weight of waxes, up to about 30% by weight of plasticizing agents, a binder, a solvent capable of reacting with the surface of an object made of cellulose derivatives and organic plastics, and an oil-soluble dye.

2,280,989

PHOTOGRAPHIC CAMERA AND PROJECTOR

Earl M. Welch, Floral Park, N. Y.

Application June 27, 1940, Serial No. 342,619
2 Claims. (Cl. 88—1)



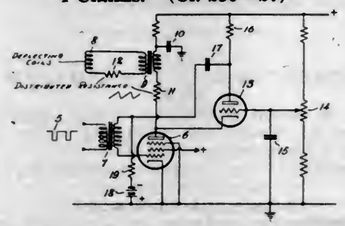
1. An optical unit adapted for a camera or projector provided with a conventional objective, which consists of a prism unit adapted to be positioned in the camera or projector symmetrically with respect to the optical axis of the objective, said prism unit when used in a camera including means for receiving substantially all of the light rays passing through the objective of the camera, splitting them into two substantially equal halves and directing these halves side-by-side upon a light sensitive surface to form two identical images of the object at which the rays originate and when used in a projector for receiving substantially all of the light projected through two such images and combining these rays to form a single image, said prism unit consisting of four essentially equi-angular triangular prismatic wedges arranged in pairs apex to apex and with the bases of each pair contiguous and in alignment and parallel to the bases of the other pair, two additional prisms, each filling one of the V-shaped depressions formed by the outer sides of each pair of prismatic wedges, each of said additional prisms having a reflecting surface parallel to the major axis of each pair of prismatic wedges and spaced from said axis a distance substantially equal to two-thirds the distance between both of said axes.

2,280,990

THERMIONIC VALVE CIRCUITS FOR THE GENERATION OF SAW TOOTH CURRENTS

Eric Lawrence Casling White, Hillingdon, England, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain

Application May 15, 1940, Serial No. 335,381
In Great Britain May 15, 1939
4 Claims. (Cl. 250—27)



1. A system for producing deflection voltage variations for a magnetically deflected cathode ray beam comprising a first electron discharge tube having a cathode, a control electrode and an anode, a source of potential having positive and negative terminals, means including a load circuit for connecting said anode to said positive terminal of the source of potential and the cathode to said negative terminal whereby said anode may be maintained positive with respect to said cathode, a second electron discharge tube having a cathode, a control electrode and an anode, means for effectively connecting said second electron discharge tube in parallel with said load circuit with the cathode of said second electron discharge tube connected to the anode of said first electron discharge tube and with the anode of said second electron discharge tube connected to said positive terminal of the source of potential, means for applying synchronizing impulses between the control electrode and the cathode of said first electron discharge tube, and means including a potentiometer for maintaining the control electrode of said second electron discharge tube at a predetermined positive potential with respect to the cathode of said first electron discharge tube.

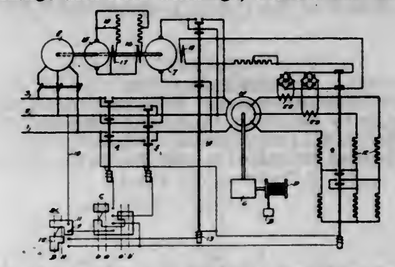
2,280,991

MOTOR CONTROL SYSTEM

William R. Wickerham, Swissvale, and James E. Borland, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 29, 1941, Serial No. 404,498
11 Claims. (Cl. 172—179)

11. In a system of control for effecting dynamic braking of a wound rotor induction motor, in combination, a wound rotor induction motor having a primary winding and a secondary winding, a source of alternating current, switching means for connecting the primary winding to the source of alternating current, a source of direct current, switching means for connecting the primary winding to the source of direct current to effect dynamic braking when the motor is driven by an overhauling load, a controller effecting the operation of said switching means for disconnecting the primary winding from the source of alternating current and for connecting the source of direct current to the primary winding, said source of direct current including a main direct current generator having armature windings and field windings, a main exciter having armature windings and field windings, transformer means



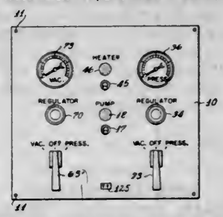
connected to be energized in proportion to the current traversing the secondary winding, rectifier means connected to said transformer to produce a direct current potential proportional to the value of the current in the secondary winding, a booster exciter having armature windings and field windings connected to the main exciter, an electric valve so interconnected with the direct current potential of the rectifying means and the field winding of the booster exciter that the field winding of the booster exciter is energized only when the direct current potential of the rectifying means rises above the voltage of the main exciter, and means for substantially simultaneously making said transformer means, said rectifying means ineffective and for altering the resistance value of the secondary winding.

2,280,992

APPARATUS FOR TREATING NASAL ORGANS

Russell M. Wright and Carl Voorhies, Detroit, Mich.

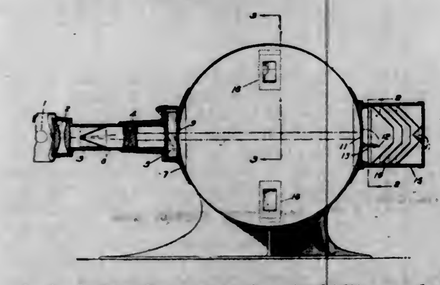
Application January 8, 1940, Serial No. 312,810
2 Claims. (Cl. 128—297)



1. The improvement in an air pressure system for treating sinus disorders having pump actuated pressure and suction branches including dispensing and evacuating nozzles insertable in the nasal organs, which consists in providing said pressure branch with a medicament tube having means thereon supporting said dispensing nozzle, and in providing said suction branch with a sampling tube with means thereon supporting said evacuating nozzle, which also consists in

providing a single supporting panel upon which said system branch means are mounted into a unitary system, closure means on said sampling tube including a valve adapted to be operated by the thumb of the operator for initiating an evacuating action, bracket means connecting said medicament and sampling tubes as a unit and in such manner they may be held in the palm of the hand of the operator used to thumb said valve, said suction branch of the pressure system on said panel unit connected through elongated flexible hose means with the closure means on the sampling tube, valve means in the pressure and suction branches of said system, and in the provision in said valve in the pressure branch of a muffler tube controlled port open to the atmosphere for quietly exhausting air when the suction branch of the system is operative.

2,280,993
TURBIDIMETER
Robert Bowling Barnes, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application December 5, 1940, Serial No. 368,574
5 Claims. (Cl. 88—14)



1. A device for measuring turbidity or haze which comprises in combination a hollow body having a diffusely reflecting internal surface and oppositely disposed apertures small in area compared to the total inner surface of the hollow body, a source of light, means for directing a beam of light from said source through one of said apertures at right angles thereto, means for preventing the entering of any stray light through said aperture, means for retaining a transparent cell containing material the turbidity of which is to be measured interposed in said beam closely adjacent to said aperture, a light absorber disposed externally to said hollow body adjacent to the second aperture, means for closing the second aperture, said means when shutting off the aperture forming with the interior of the hollow body a continuous diffusely reflecting surface and photoelectric indicating means for measuring the integrated light in said hollow body.

2,280,994
MUD DISPERSION
Robert B. Booth, Springdale, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application May 31, 1940, Serial No. 338,050
20 Claims. (Cl. 252—8.5)

1. A method of controlling the viscosity of aqueous clay dispersions which comprises admixing therewith a urea compound.

13. A drilling fluid comprising an aqueous thixotropic clay dispersion and a urea compound.

2,280,995
MUD DISPERSION
Robert B. Booth, Springdale, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application May 31, 1940, Serial No. 338,241
13 Claims. (Cl. 252—8.5)

1. A method of controlling the viscosity of mud dispersions which comprises admixing dicyandiamide therewith.

2,280,996
TREATMENT OF SALT- AND LIME-CUT MUD
Robert B. Booth, Springdale, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application November 16, 1940, Serial No. 365,942
12 Claims. (Cl. 252—8.5)

1. A method of controlling the viscosity of salt-cut and lime-cut drilling muds which comprises incorporating therein a compound selected from the group consisting of urea, thiourea, substituted ureas and substituted thioureas.

2,280,997
TREATMENT OF SALT-CUT AND LIME-CUT MUD
Robert B. Booth, Springdale, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application November 20, 1940, Serial No. 366,380
9 Claims. (Cl. 252—8.5)

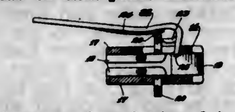
1. A method of controlling the viscosity of salt-cut and lime-cut drilling muds which comprises incorporating dicyandiamide therein.

2,280,998
ALUMINA RECOVERY PROCESS
Ralph Waldo Brown, East St. Louis, Ill., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application April 13, 1940, Serial No. 329,538
6 Claims. (Cl. 23—143)

1. In the art of extracting alumina values from ore containing the same, which includes digesting the ore by treating it with caustic solution to produce a slurry consisting of liquor containing dissolved alumina with insoluble particles suspended therein, removing insoluble particles and thereafter precipitating alumina from the liquor, the improvement which comprises, prior to the precipitation of alumina, providing starch in said slurry in an amount which will effect flocculation of the suspended insoluble particles but not sufficient to interfere with auto-precipitation of alumina after flocculation and removal of suspended insoluble particles, and removing starch from the liquor, along with the suspended insoluble particles, to an extent leaving the liquor unstable to auto-precipitation.

2,280,999
DETACHABLE PULL TAB FOR SLIDE FASTENER SLIDERS
Alfred E. Carlile, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania
Application March 16, 1940, Serial No. 324,335
14 Claims. (Cl. 24—205.5)

8. A detachable pull tab member for use with slide fastener sliders having lugs of loop form and adjacent locking pin apertures, a plate member with a hook portion at its inner end and a leaf spring member having one end attached to the underside of said plate member and having



its free end engaged and biased toward the interior of said hook portion, and a locking pin on said plate member adjacent said hook portion adapted for projection through said locking pin aperture for engaging slide fastener members in the slider.

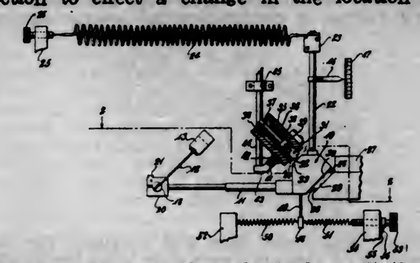
2,281,000
LOCKING BRIDGE TOP STOP
Alfred E. Carlile, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania
Application August 11, 1941, Serial No. 406,245
7 Claims. (Cl. 24—205)



4. In combination with a slide fastener including a pair of complementary stringer tapes each having a row of interlocking fastener members on one edge, and a slider slidable on said rows of interlocking fastener members for progressively engaging and disengaging said fastener members to close and open said fastener, said slider comprising a pair of wings connected at their upper ends by a neck; a bridge top stop comprising a pair of relatively inflexible tape holding members connected at their upper ends by a relatively flexible bridge portion, said tape holding members being secured to adjacent edges of said tapes above the rows of interlocking fastener members for maintaining said upper tape ends in predetermined relation, and projections on said tape holding members yieldingly engaging the neck of said slider in its uppermost position for yieldingly connecting said slider with said top stop in the closed position of said fastener to prevent accidental opening of said fastener.

2,281,001
GRAVITY METER
Dayton H. Clewell, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application May 24, 1940, Serial No. 336,898
7 Claims. (Cl. 265—1.4)

1. In a gravity meter that comprises a support, a main mass, means for pivotally securing the mass to the support in such a manner that the pivotal point and the center of gravity of the mass are in different vertical planes, elastic means for supporting the mass against the action of vertical components of gravitational force, means for indicating the disposition of the mass relative to the support, and means for nulling the gravity meter by returning the mass to a predetermined indicated position, said means comprising an auxiliary mass pendulously fixed to the main mass and means for shifting the auxiliary mass in a substantially horizontal direction to effect a change in the location of



the center of gravity through which gravitational forces act.

2,281,002
AIR CONDITIONING DEVICE
John R. Eck, Solana Beach, Calif., assignor of one-fourth to Omer Nelson and one-fourth to Maurice M. Myers
Application April 18, 1938, Serial No. 202,595
3 Claims. (Cl. 98—33)

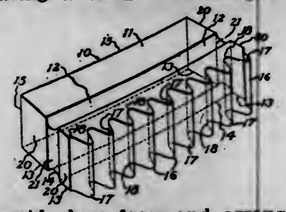


1. In an apparatus for conditioning air of a living room, the combination of two hollow risers uprightly disposed therein, one of said risers serving as a conduit for carrying off the foul air from said room and the other riser serving as a conduit for the admission of fresh to replace said foul air, a box shaped receptacle depressed within said fresh air conduit intermediate the ends thereof, a heating unit mounted within said receptacle and serving at the same time slightly to preheat said fresh air and also to supply sufficient heat to heat the air of said room at normal temperatures.

2,281,003
REFRACTORY BRICK
William H. Henson and Kenric H. Bird, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application August 24, 1940, Serial No. 354,074
1 Claim. (Cl. 72—101)

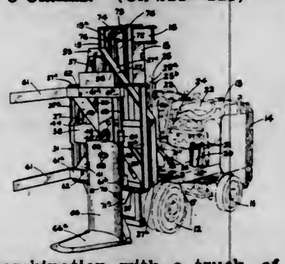
A refractory brick for an inner, heat conductive, annular wall of a gas producer composed of ceramic bonded silicon carbide grains shaped substantially as a segment of said annular wall and having top and bottom faces lying in substantially parallel planes, end faces arranged as radial planes, an inner partial cylindrical surface which forms a smooth non-clinkering wall,

and a corrugated face forming a portion of an outer heat exchanging surface for said wall, said brick having a circumferential groove cutting



each of said plane faces and arranged for the reception of cement which interlocks the bricks together in said wall.

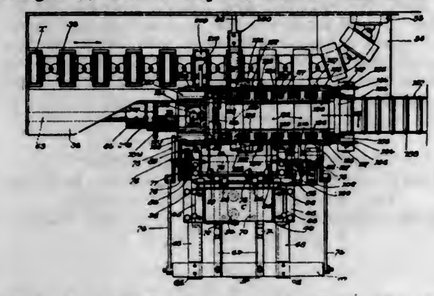
2,281,004
INDUSTRIAL TRUCK
Max Lehmann, Cleveland, and Paul R. Guerin, East Cleveland, Ohio, assignors to Towmotor Co., Cleveland, Ohio, a copartnership consisting of Lester M. Sears, Ruth P. Sears, and Mary Ann Sears, all of Shaker Heights, Ohio, and Anna L. Sears, Cleveland, Ohio
Application September 3, 1940, Serial No. 355,166
8 Claims. (Cl. 214—113)



1. The combination with a truck, of a mast comprising a pair of substantially vertical side members pivotally supported adjacent to their lower ends by said truck for movement each about a horizontal axis, a first hydraulic cylinder mounted adjacent to each side of said truck, a piston rod extending from each cylinder, means connecting the said piston rods with the said side members for tilting the latter about their horizontal axes, a load carrier comprising a carriage mounted for reciprocation along the side members, a swinging carriage mounted upon the first mentioned carriage for rotation about a substantially horizontal axis, a second hydraulic cylinder mounted between the said side members and having a piston rod projecting therefrom, connections between the said piston rod and the first mentioned carriage for raising and lowering the same along said side members, a third hydraulic cylinder carried by the first mentioned carriage and having a piston rod, means connecting the piston rod with the swinging carriage, and means for supplying hydraulic fluid to and from the said cylinders.

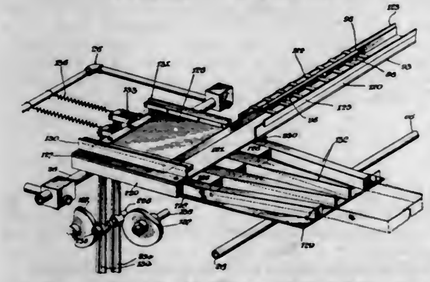
2,281,005
MECHANISM FOR FORMING COVERS ON THE TRAYS OF TELESCOPIC BOXES
Wilmer C. Nicodemus and Hugo D. Brown, Barberton, Ohio, assignors to The Diamond Match Company, New York, N. Y., a corporation of Delaware
Application December 21, 1940, Serial No. 371,088
12 Claims. (Cl. 93—3)

1. The combination of a vertically-reciprocative longitudinally-divided plunger whereof the parts have capacity for concurrent and also relative vertical movement, a stationary former element having a throat above and in co-operative relation to the plunger, means for supporting a cover blank flatwise under said former element and in overhanging relation to the plunger, a horizontally reciprocative folder blade movable over and from one side of the throat, means for simultaneously elevating the two parts of the plunger so that a tray associated with a cover



blank is pushed through and above the said throat by the plunger to cause the blank to span the top and embrace the sides of the tray, said latter means thereafter independently lowering a short distance the part of the plunger adjacent the path of the folder blade, thus providing a clearance space for the blade and the opposing fold of the blank, and finally lowering the two parts of the plunger to their previous position and with their tops in the same level, and means for reciprocating the folder blade in timed relation to the plunger.

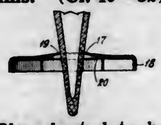
2,281,006
GROUPING AND ARRANGING MECHANISM FOR PACKET ASSEMBLING MACHINES
Wilmer C. Nicodemus, Barberton, Ohio, assignor to The Diamond Match Company, New York, N. Y., a corporation of Delaware
Application March 11, 1941, Serial No. 382,721
2 Claims. (Cl. 198—33)



1. In combination with a support for a row of packages, means for successively advancing rows of packages upon said support, a rearwardly extending floor element below said support provided with a series of channels in angular relation to the path of delivery of said rows of packages, means including a movable element for endwise pushing the packages of each succeeding row from said support and positioning each package with one of its longitudinal marginal portions resting on the wall of a channel, means including an element movable in respect to said channels to support temporarily the adjacent edges of the respective pairs of packages, and

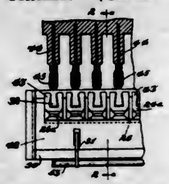
means for actuating the said movable elements in timed relation, whereby when the second named element is moved in one direction the packages, unbalanced, overhang the adjacent channels, thus gravitating in pairs into the respective channels.

2,281,007
SCORING AND GROOVING FILE
Bruno Page, New York, N. Y., assignor to Schering & Glatz, Inc., New York, N. Y., a corporation of New York
Application June 5, 1940, Serial No. 338,935
5 Claims. (Cl. 49—52)



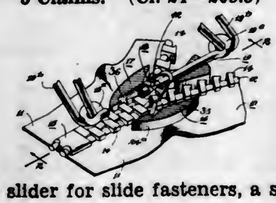
1. An annular file adapted to be grasped between two fingers of one hand and slipped over the end of a tapered glass tube, rod or the like to effect scoring preparatory to breaking, and composed of a centrally apertured sheet metal plate having a row of cutting teeth along its inner periphery, and having a plurality of approximately radial slits extending from the inner periphery to a point intermediate the inner and outer peripheries and dividing the body of the file into relatively flexible sections.

2,281,008
MACHINE FOR MAKING SEPARABLE FASTENERS
Noel J. Poux, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania
Original application November 20, 1933, Serial No. 698,801. Divided and this application October 28, 1939, Serial No. 301,852
3 Claims. (Cl. 18—1)



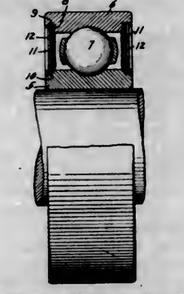
1. In a machine for forming separable fasteners, the combination of means for advancing a stringer, means for applying interlocking members thereto, and means for supplying cement for the engaging surfaces comprising a tank, a slot in the tank through which the stringer is drawn, the stringer being related to the slot to seal the slot.

2,281,009
LOCK SLIDER FOR SLIDE FASTENERS
Noel J. Poux, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania
Application October 31, 1940, Serial No. 363,708
5 Claims. (Cl. 24—205.5)



4. In a slider for slide fasteners, a slider body comprising a pair of spaced connected wing members forming an upwardly divergent fastener member guide channel therebetween, one of said wing members having therein an enclosed locking member receiving pocket communicating through an aperture with said fastener member guide channel and a longitudinal unlocking member supporting bore extending into said pocket, a bifurcated resilient locking member supported in said pocket, said locking member having legs straddling interlocking fastener members in said channel and having offset oppositely directed locking projections at their ends extending through said aperture into said channel and normally engaging the leg end surfaces of interlocking fastener members in said channel, said locking member being provided with laterally spaced cam follower members, and a manually operable reciprocating unlocking member supported in said bore and having a double acting reciprocating cam disposed between said cam follower members and cooperating with said cam follower surfaces upon movement of said unlocking member against the inherent resiliency of said locking member to spread said resilient locking member and simultaneously to withdraw both said locking projections from engagement with interlocking fastener members in the guide channel of said slider body.

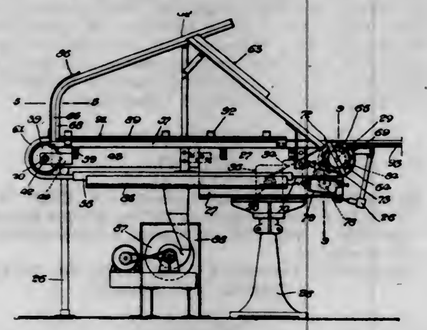
2,281,010
BEARING SEAL
Harry R. Reynolds and Ladonace A. Hilles, New Britain, Conn., assignors to The Fafnir Bearing Company, New Britain, Conn., a corporation of Connecticut
Application January 6, 1940, Serial No. 312,628
3 Claims. (Cl. 286—5)



1. In combination with a pair of relatively rotatable rings one within the other and held in radially spaced apart relationship and against substantial relative movement axially, the outer of said rings at one end having a generally axially outwardly facing abutment shoulder, an annular substantially flat seal disk of flexible and resilient lubricant-resistant rubber-like material seated at its outer edge on said abutment shoulder, said seal disk extending in a substantially radial direction completely across the space between said rings and at its inner edge being flexed into sealing engagement with a seating surface facing generally axially outwardly on the inner of said rings, said outer ring having a second shoulder facing generally axially inwardly, an annular securing disk split to render the same radially contractible snapped behind said last mentioned shoulder and abutting said annular seal disk to hold the latter in place in sealing engagement with said generally axially outwardly facing abutment shoulder, said securing disk lying on the outside of said seal disk and extending in a

substantially radial direction from said outer ring toward said inner ring and terminating radially short of the radially outermost point of contact between said seal disk and its said seating surface on said inner ring whereby the distance between said securing disk and the point of contact of said seal disk and inner ring seating surface will be greater than the thickness of said seal disk, said securing disk serving to hold the inner edge of said seal disk flexed into and held by its inherent resiliency in sealing engagement with said inner ring seating surface as aforesaid.

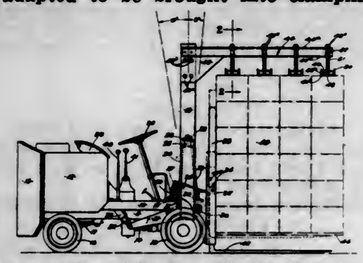
2,281,011
MACHINE FOR COMBINING DISSIMILAR ARTICLES
William Roberts, Oswego, N. Y., assignor to The Diamond Match Company, New York, N. Y., a corporation of Delaware
Application March 5, 1941, Serial No. 381,786
6 Claims. (Cl. 93—93)



1. The combination with a conveyer having a succession of members each comprising a body having oppositely-extending step-like portions at its respective sides, and the succession of bodies being equally spaced throughout the length of the conveyer to provide in each space between adjacent bodies a holder of different transverse dimensions for the reception of dissimilar packets in superposed relation, and means for actuating said conveyer, of means for feeding a packet of one variety to each succeeding holder of said conveyer at one part of the said path, means at another part of the path for feeding a packet of another variety to each succeeding holder and in superposed relation to the packet previously entered in said holder, and means for uniting the associated packets contained in said holder.

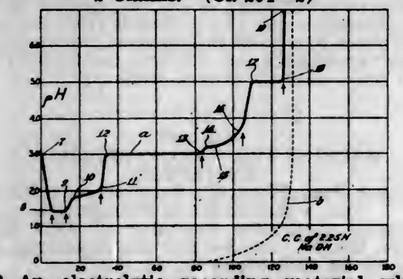
2,281,012
INDUSTRIAL TRUCK
Lester M. Sears, Shaker Heights, Ohio, assignor to Towmotor Co., Cleveland, Ohio, a copartnership consisting of Lester M. Sears, Ruth P. Sears, and Mary Ann Sears, all of Shaker Heights, Ohio, and Anna L. Sears, Cleveland, Ohio
Application August 3, 1940, Serial No. 350,587
8 Claims. (Cl. 214—66)

1. The combination, with a truck, of a mast carried by said truck, a load carrier projecting forwardly from said mast, means for raising and lowering the same along the said mast, an arm rigid with said mast and projecting forwardly therefrom above and substantially parallel with the said load carrier, and a plurality of yieldingly supported clamping members carried by said arm and adapted to be brought into clamping en-



gagement with articles upon the load carrier when the latter is moved upwardly along the mast.

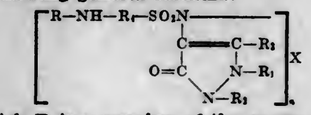
2,281,013
ELECTROLYTIC RECORDING PAPER
Paul Talmey, New York, N. Y., assignor to Radio Inventions, Inc., New York, N. Y., a corporation of New York
Application February 25, 1939, Serial No. 258,391
2 Claims. (Cl. 204—2)



2. An electrolytic recording material which comprises a supporting surface carrying an electrolytically sensitive composition consisting essentially of a compound of the class consisting of, antimony trioxide, antimony oxysulphate, potassium antimoniate, tartar emetic, antimony pentasulfide, bismuth oxynitrate, bismuth oxyiodogallate, bismuth subgallate, bismuth salicylate (basic), bismuth lactate, bismuth chromate, bismuth trioxide, bismuth tetraoxide, bismuth ammonium citrate, bismuth citrate, bismuth phosphate, bismuth oxalate, and bismuth tannate, a buffer chosen from the class consisting of, gallic acid, salicylic acid, benzoic acid, citric acid, boric acid and phosphoric acid, and an electrolyte in sufficient quantity to make the material conducting in the presence of water.

2,281,014
AMINOARYLSULPHONAMIDO-PYRAZOLONES
Philip Stanley Winnek, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application June 8, 1939, Serial No. 278,075
6 Claims. (Cl. 260—310)

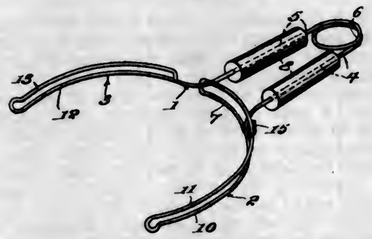
1. Aminoarylsulphonamidopyrazolones having the following general formula:



in which R is a member of the group consisting

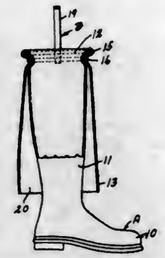
of hydrogen and solubilizing groups, R_1 and R_2 are members of the group consisting of hydrogen, alkyl and aryl radicals, R_3 is a member of the group consisting of hydrogen and alkyl radicals, R_4 is a mononuclear aryl radical, X is a member of the group consisting of hydrogen, metals and ammonium radicals and n is a small whole number.

2,281,015
PAN LIFTER
Albert F. Weise, West View, Pa.
Application April 8, 1941, Serial No. 387,529
1 Claim. (Cl. 294—33)



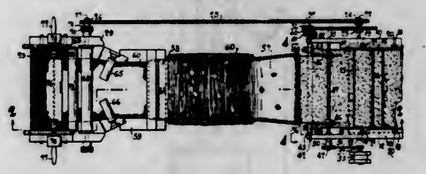
A pan lifter formed from a single piece of wire bent at one end to form a transverse guide loop closed at one end by a return bend integrally connecting the arms of the loop and closed at its opposite end by a bent end of one of the arms forming one of the extremities of the wire, the wire thence being bent to form a looped jaw, thence bent to form a handle portion, a coil spring and a second handle portion connected by the spring with the first-named handle portion, said handle portions being extended through and movable relatively to each other in the guide loop, and then continued beyond the second-named handle portion and bent to form a second looped jaw for cooperation with the first-named jaw, one end of the loop of the second-named jaw being closed by a bent portion constituting the other extremity of the wire.

2,281,016
HIP BOOT DRYING HANGER
Merritt Dan Barney, Billings, Mont.
Application July 11, 1940, Serial No. 345,015
5 Claims. (Cl. 34—21)



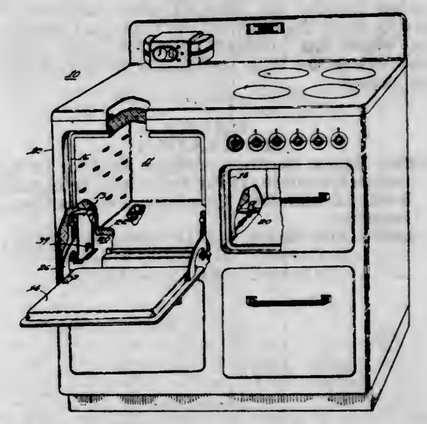
5. The method of drying a hip boot of the character which includes a flexible upwardly flaring top which includes disposing the boot top in inverted downwardly flaring outwardly spaced relation to the empty boot leg to form a downwardly opening pocket between the top and leg, and suspending the empty boot in an upward draft of heated air with the foot of the boot lowermost.

2,281,017
METHOD AND MEANS FOR MAKING FILTER PADS AND THE LIKE
Jacob C. Barnhardt, Charlotte, N. C., assignor to Barnhardt Manufacturing Company, Charlotte, N. C., a corporation of North Carolina
Application May 4, 1940, Serial No. 333,352
7 Claims. (Cl. 154—1)



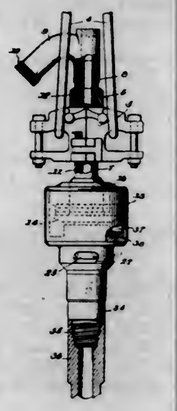
1. In a machine of the character described, the combination of a tubular carrier adapted to be surrounded by a tube of fabric compacted in overlapping folds, means for feeding a filler material through said carrier, said carrier having one end thereof flared outwardly, means for feeding the tube of fabric over said flared end and over the filler whereby the fabric will be stretched just short of its ultimate stretch before encasing the filler.

2,281,018
HINGE MECHANISM
Alfons Barasteiner and Edwin H. Lockwood, Mansfield, Ohio, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 29, 1939, Serial No. 311,633
3 Claims. (Cl. 126—194)



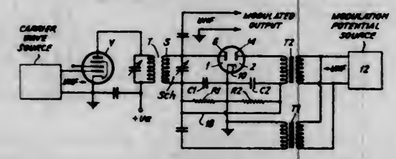
1. In a hinge mechanism for pivotally mounting an oven door on a range structure, a unitary sub-assembly comprising a housing formed with two opposite walls and open at one side to receive a hinge bracket attached to said oven door, a hinge pin mounted on and disposed in said housing and adapted to be pivotally engaged by said hinge bracket, a latching device mounted on said housing and disposed therein in position to engage said hinge bracket when the oven door is in closed position for holding the same in closed position, and bosses formed within opposite walls of the housing positioned between the hinge pin and latching device for guiding the hinge bracket in its movement so that said bracket will engage the latching device in a predetermined manner as the door is closed.

2,281,019
SWIVEL CONNECTION
Walter Brauer, Oklahoma City, Okla.
Application April 4, 1940, Serial No. 327,902
3 Claims. (Cl. 255—25)



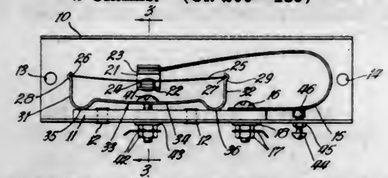
1. In a rotary swivel for use with well drilling equipment comprising a rotatable swivel body, a stationary swivel stem operatively connected with the well drilling equipment, said body being supported by said stem, said stem having an annular flange, an anti-friction bearing supported by the flange, said body having a portion resting on the anti-friction bearing, said body acting as a lubricant reservoir enclosed by an adjustable nut connected thereto, an integral tube extending upwardly from the nut into the stem and terminating above the lubricant reservoir, and a wash pipe inside the tube forming a conduit through the swivel.

2,281,020
MODULATION
Lothar Brück, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie, Berlin, Zehlendorf, Germany, a corporation of Germany
Application March 4, 1941, Serial No. 381,624
In Germany November 8, 1939
3 Claims. (Cl. 179—171.5)



3. In a modulation system, a parallel tuned circuit wherein wave energy of carrier wave frequency is caused to flow, a rectifier and a load resistance for said rectifier in series connected in shunt to said parallel tuned circuit, a source of modulating potentials, means for impressing said modulating potentials on said load resistance, and means for rectifying said modulating potentials to derive direct current voltage which corresponds to the envelope of the modulating potentials and impressing the same on said resistance to thereby stabilize the percentage modulation in the presence of fluctuations in the wave energy of carrier wave frequency.

2,281,021
QUICK ACTION THERMOSTAT
Ralph F. Butler and Oliver D. Westerberg, Chicago, Ill.
Application April 1, 1940, Serial No. 327,214
2 Claims. (Cl. 200—139)



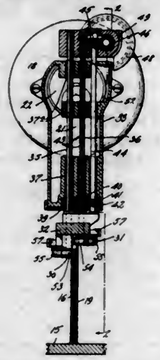
1. In a thermostat, a snap action contactor assembly comprising a flat spring snap member and a mounting bracket; said mounting bracket including a center portion, a pair of reverse curve fulcrums located at opposite sides of said center portion, a pair of pivot sockets, and adjusting means to move each of said sockets equally and simultaneously in opposite directions; said snap member consisting of a narrow, thin, relatively long, normally flat spring including a pair of pivoting edges at the opposite ends and a central electrical contact; said contactor assembly being adapted to be actuated through an across-center toggle action by a relatively long gradual action, a U-shaped temperature-sensitive actuating member consisting of a bi-metallic strip including an electrical contact adapted to engage the center contact of said spring snap member responsive to relative movement in one direction, an insulated adjustment screw adjacent the curve of the U, and a lost-motion connection to permit limited separation of said contacts responsive to relative movement in the opposite direction.

2,281,022
SHADE CONSTRUCTION
Thomas Joseph Cavanaugh, Detroit, Mich.
Application August 1, 1940, Serial No. 349,324
11 Claims. (Cl. 156—10)



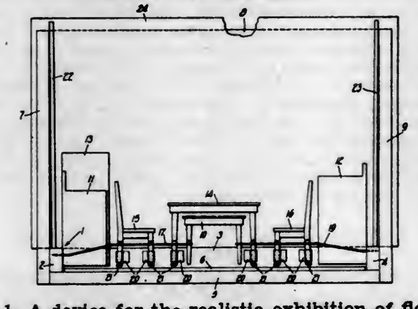
1. Shade construction comprising a spring-operated roller, a shade adapted to be wound on said roller and having one end secured thereto, means securing the other end of said shade adjacent said spring-operated roller, a second roller engaging said shade intermediate the ends thereof, one of said rollers being supported by said shade and being movable toward and away from the other of said rollers for effecting the winding of said shade upon and the unwinding of said shade from said spring-operated roller, said shade when unwound from said spring-operated roller assuming a U-shaped form, said shade being constructed so as to provide alternate translucent and opaque areas along the length thereof, and manually operable means acting on said shade for adjusting the length of the unwound part of said shade without displacing the same from its normal path of travel for selectively effecting the alignment or disalignment of translucent areas in opposing portions of said shade for controlling the passage of light through said shade.

2,281,023
KNIFE SHARPENING MECHANISM FOR CUTTING MACHINES
Frederick J. Clark and Frederick G. Clark, Buffalo, N. Y., assignors to Eastman Machine Company, Buffalo, N. Y.
Application January 19, 1940, Serial No. 314,666
8 Claims. (Cl. 51—246)



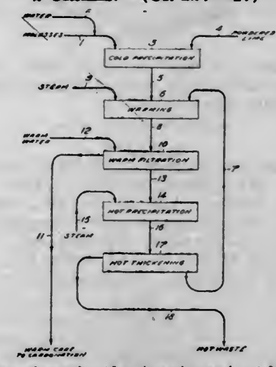
1. In a knife sharpening mechanism comprising a flexible abrasive band which travels past the knife in a direction toward a point in advance of the knife edge, and means for guiding and yieldingly holding said band in grinding contact with the edge portion of the knife including a guide element which the band travels past and engages only at a peripheral portion thereof adjacent to the extreme edge of the knife, and means for pressing the guide element yieldingly towards the knife, said element being movable toward and from the knife for its yielding action and in addition being adjustable in a direction at an angle to its direction of yielding motion for changing the angular relation of its said band-engaging portion and the band to the plane of the knife.

2,281,024
EXHIBITION DEVICE
James R. Connor, New York, N. Y.
Application February 12, 1940, Serial No. 318,421
11 Claims. (Cl. 35—7)



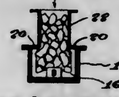
1. A device for the realistic exhibition of floor or wall coverings comprising, in combination, a miniature room-like structure for simulating a room, including a bottom wall and a plurality of side walls, a baseboard running part way around the bottom wall, and miniature furniture supported exclusively from the baseboard and spaced from the bottom wall and the side walls sufficiently to permit different sample panels of floor and wall coverings to be inserted in place and withdrawn without disturbing the furniture.

2,281,025
RECOVERY OF SUGAR FROM MOLASSES
Roy H. Cottrell and Vernal Jensen, Ogden, Utah
Application October 27, 1936, Serial No. 107,794
2 Claims. (Cl. 127—47)



1. Those steps in the treatment of beet molasses, which comprise reacting lime with the sugar in the solution while maintaining the temperature of the reacting mixture substantially below 35° C., heating the mixture resulting from said reaction to a temperature relatively higher than that at which the reaction was effected but not above approximately 35° C., and filtering the mixture at substantially said relatively higher temperature, said heating being realized by the direct introduction of steam into the mixture while passing to the filtering step.

2,281,026
CONVEYER
Alfred De Los Sinden, Aurora, Ill., assignor to Redler Conveyor Company, Quincy, Mass., a corporation of Massachusetts
Application March 2, 1940, Serial No. 321,968
3 Claims. (Cl. 198—168)

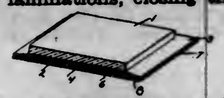


1. In a conveyer for conveying lumpy material, in combination, a casing having an inlet opening in the top wall thereof, a conveyer element adapted to be drawn through the casing provided with a plurality of spaced flights, said flights being of a skeleton structure adapted to convey the material in a continuous stream through the casing and having at least one upright leg disposed adjacent a side wall of the casing and being open at the upper end to enable lumpy material to flow from the inlet into the casing to within the flights, said casing at the inlet being provided with cover members disposed immediately above the upper end of said upright legs to prevent lumps becoming jammed between the same and the edge of the inlet.

2,281,027
PROCESS FOR MANUFACTURING LAMINATED ARTICLES
Brook J. Dennison, Aspinwall, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application July 31, 1940, Serial No. 348,775
5 Claims. (Cl. 154—2)

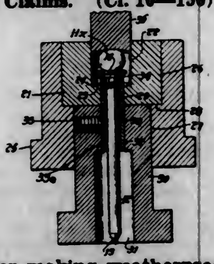
1. A process of manufacturing a laminated article which comprises superposing a plurality of laminations with interposed plastic adhesive material in sheet form extending beyond the

edges of the laminations, applying covering nonporous sheet material also extending beyond the edges of the laminations, closing the extending



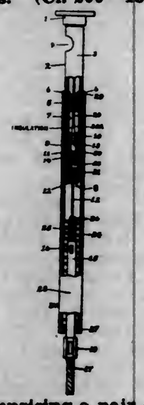
edge portions of the covering and interposed plastic, and subjecting the assembled elements to heat and fluid pressure.

2,281,028
METHOD OF AND MEANS FOR MAKING WEATHERPROOF NAILS
Robert B. Dickson, Evanston, Ill., assignor to Dickson Weatherproof Nail Company, Evanston, Ill., a corporation of Delaware
Application March 2, 1940, Serial No. 321,970
5 Claims. (Cl. 10—156)



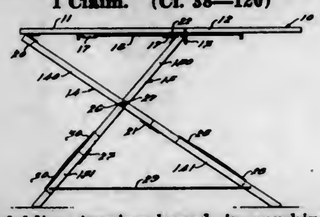
2. Means for making weatherproof nails embodying therein a die member having a cavity therein, means disposed axially of said die member for receiving the shank of a headed nail when the same is inserted into said cavity, said means carrying a portion that normally projects above the bottom of said cavity so as to be engaged by a part of the underside of the head of said nail so as to support the same in a position above the bottom of said cavity, said die member and said means being relatively movable axially so as to change the relative position between the top edge of said portion of said means and the bottom of said cavity.

2,281,029
FUSE LINK
Ralph H. Earle, Wauwatosa, Wis., assignor to Line Material Company, Milwaukee, Wis., a corporation of Delaware
Application February 26, 1940, Serial No. 320,903
17 Claims. (Cl. 200—135)



2. A fuse link comprising a pair of conducting portions, a destructible section holding one of said portions in position relative to the other, a heater element connected electrically with said portions, and an insulating member disposed between said portions and adapted to allow complete current flow through said heater element, said element acting when an overload current is established therethrough to produce sufficient heat to destroy said section and interrupt the flow of current through said link.

2,281,030
IRONING BOARD
Ina Pearl Fair, Detroit, Mich.
Application January 8, 1941, Serial No. 373,558
1 Claim. (Cl. 38—120)



In a folding ironing board, in combination, a rear section and a forward section foldable with respect to each other, the front section serving as an extension of said rear section when the ironing board is set up, a pair of downwardly and forwardly disposed foldable legs hinged to the rear of said rear section and a pair of downwardly and rearwardly disposed foldable legs hinged to the front of said rear section, the said forwardly extending legs extending to a point substantially below the free end of the said forward section when extended, one forwardly disposed leg and one rearwardly disposed leg being juxtaposed laterally on each side of said rear section, a hinge disposed on the bottom of each foldable leg at a joint therein normal to the said leg, a removable securing pin telescoped through each pair of juxtaposed legs when the ironing board is set-up, means cooperating with each securing pin for clamping each pair of juxtaposed legs together when said ironing board is set up, means for bracing the ironing board legs when the ironing board is set up, a pair of long strap hinges secured to abutting ends of said rear and front ironing board sections anchoring said sections together when the ironing board is set up and holding said sections in sufficient spaced relationship to accommodate the folded supporting legs thereof when the bottoms of said ironing board sections are folded in opposite relationship to each other, and a slide telescopingly secured to the bottom of said rear section serving as a cantilever support for said front section when said ironing board is set up.

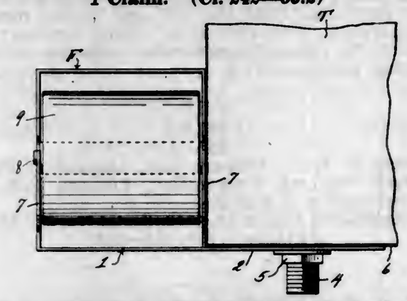
2,281,031
DRAIN PLATFORM FOR WASHING MACHINES
William John Francey, Syracuse, N. Y., assignor to United States Hoffman Machinery Corporation, New York, N. Y., a corporation of Delaware
Application March 15, 1940, Serial No. 324,170
6 Claims. (Cl. 68—210)



1. The combination of a washing machine,

comprising a cylinder mounted to rotate on a substantially horizontal axis and to dip into a bath of cleaning fluid, said cylinder having an axial port of less diameter than the cylinder through which fabrics to be treated are inserted and removed; and a drain platform of approximately rectangular form, said platform including means for collapsing the same in one transverse direction to permit its insertion through said port, and in the other transverse direction being rigid and so dimensioned as to be sustained at its ends by portions of said drum in chordal relation to the drum, whereby the platform may be inserted above the fabrics and then be transposed to a sustaining position beneath the fabrics and above the bottom of the drum as an incident to the partial rotation of the drum.

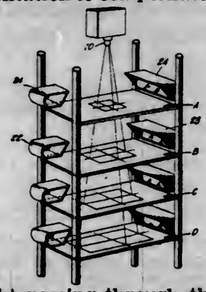
2,281,032
HOLDER FOR TOILET PAPER
William Galens, Fergus Falls, Minn.
Application April 15, 1941, Serial No. 388,688
1 Claim. (Cl. 242—55.2)



In combination with a flush tank having a member depending from the bottom wall thereof, of a toilet paper holder for use in connection with the flush tank, said holder comprising a frame including side members and a bottom member, the side members being provided with means whereby a paper roll may be supported therebetween, a laterally disposed arm extending from an end of the bottom member of the frame, said arm being broad, the outer or free end portion of the arm having an open slot disposed lengthwise thereof, said arm being adapted to contact the bottom of the tank from below, the slot in the arm allowing the outer end portion of the arm to straddle the member depending from the bottom wall of the tank, and a clamping element engaging the member depending from the tank for holding the arm in close contact against the bottom wall of the tank with the frame in a position to one side of the tank.

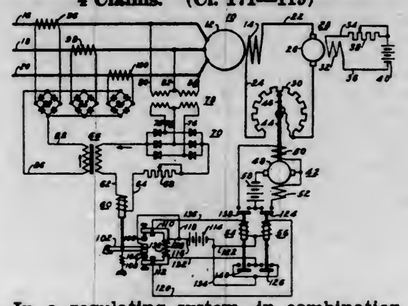
2,281,033
METHOD OF PRODUCING ANIMATED PHOTOPLAYS
William E. Garity, Los Angeles, Calif., assignor to Walt Disney Productions, Los Angeles, Calif., a corporation of California
Application May 8, 1939, Serial No. 272,315
3 Claims. (Cl. 88—16)

1. In a method of producing an effect of depth in photographic images of pictorial representations, the steps of: placing pictorial representations in two parallel spaced planes along the optical axis of a camera lens, said pictorial representations being complementary, the representation closer to said camera lens being carried by a transparent member, illuminating the camera side of each of said representations, illuminating the rear representation with light of sufficiently higher intensity than the illumination of the front representation to compensate for absorption



losses of light passing through the front representation and its carrying medium, and moving the camera lens and the rear representation along the camera lens axis and in the same direction, between periods of photography by said camera.

2,281,034
REGULATING SYSTEM
Ralph A. Geiselman, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 27, 1940, Serial No. 347,900
4 Claims. (Cl. 171—119)

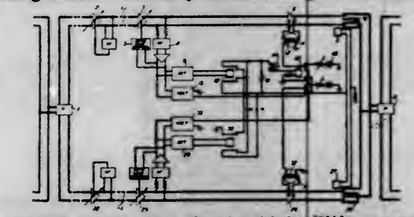


1. In a regulating system, in combination, a generator provided with a field winding for delivering three-phase power to a load which may fluctuate, a rheostat connected in circuit relation with the field winding to control the field excitation, a motor for operating the rheostat, and a direct-current relay for initiating and controlling the operation of the rheostat motor to effect an increase or decrease in the field excitation, the relay being responsive to a direct current component voltage which is inversely dependent upon a change in current supplied to the load and directly dependent upon a change in the generator voltage.

2,281,035
REPEATERED TRANSMISSION SYSTEM
Estill I. Green, Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 31, 1941, Serial No. 396,148
10 Claims. (Cl. 178—44)

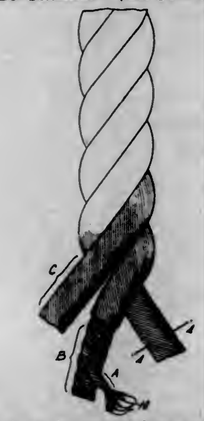
6. A signaling system comprising duplicate transmission facilities separated into a multiplicity of long distance transmission links, means for applying signals and pilot waves to the two transmission facilities in each of said links,

means for maintaining a 120-degree vector relationship between the signal and pilot waves in the one facility and the signal and pilot waves in the other facility, automatic transmission regulating means normally maintaining the transmis-



sion equivalent of each of said facilities approximately constant, and means at the junction of said links operative under the control of said pilot waves for equalizing the transmission levels in the two facilities irrespective of variations in relative level permitted by said regulating means.

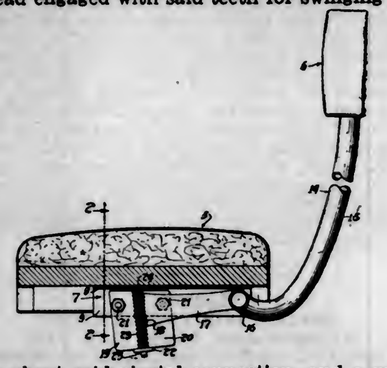
2,281,036
ROPE STRUCTURE
John A. Hetzel, Jersey City, N. J., assignor to Whitlock Cordage Company, New York, N. Y., a corporation of New Jersey
Application December 21, 1940, Serial No. 371,161
18 Claims. (Cl. 57—144)



1. A rope strand comprising a plurality of units twisted together in helices of substantially identical diameter about the axis of the strand, each unit consisting of a plurality of rope elements twisted together in helices of substantially identical diameter about the axis of the unit without center elements so that all of the said rope elements in a given length of strand are of substantially equal length.

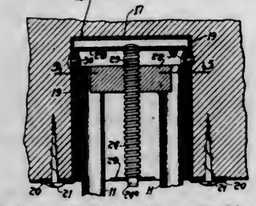
2,281,037
CHAIR
Arthur E. Jones, Elkhart, Ind., assignor to Posture Research Corporation, Elkhart, Ind., a corporation of Indiana
Application March 18, 1940, Serial No. 324,585
3 Claims. (Cl. 155—161)

1. A chair embodying therein a seat, a back rest supporting means, means providing a pivotal connection between said supporting means and said seat, an arm fixed at one end to a part of said pivotal connection means and extending therefrom in the direction of the sides of the seat, and formed at its other end with teeth arranged on an arc concentric with the axis of said pivotal connection, a member having a helical thread engaged with said teeth for swinging said



arm about said pivotal connection, and a member depending from the seat and having means cooperating therewith in providing bearings in which the ends of said member with the helical thread are journalled.

2,281,038
CHAIR
Arthur E. Jones, Elkhart, Ind., assignor to Posture Research Corporation, Elkhart, Ind., a corporation of Indiana
Application March 18, 1940, Serial No. 324,586
5 Claims. (Cl. 155—158)

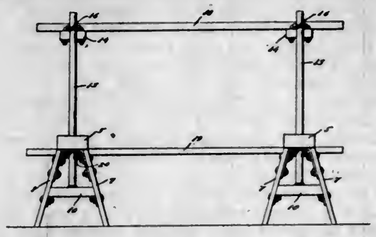


5. A chair embodying therein a backrest having a recess that opens through the bottom and the back thereof, an open bottom means mounted in said recess for a limited rocking movement about a horizontal axis arranged longitudinally of the backrest and substantially closing the open back of said recess, a support for said backrest and including laterally spaced, generally upright members having their upper ends disposed in said means, a nut-like member connecting said upper ends of said generally upright members, and a screw having a threaded engagement intermediate its ends with said nut-like member and also having a swiveled connection with said means.

2,281,039
SCAFFOLD JACK
Elmer L. Jones, Indio, Calif.
Application September 23, 1940, Serial No. 357,969
1 Claim. (Cl. 304—5)

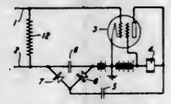
A scaffold jack comprising an elongated cross piece, a leg structure adjacent each end thereof and each structure including a pair of downwardly diverging members, means for connecting said members at their upper ends to the cross piece and a brace plate extending between the members of each pair intermediate the ends thereof and connected therewith, a pair of posts extending

upwardly from the cross piece and each post passing through the cross piece to a brace plate to which the post is welded, a second cross piece extending between the posts and of less length



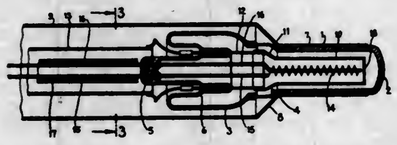
than the distance between the two posts, plates having openings therein through which the posts pass and means for hinging the inner ends of the plates to the upper face of the second cross piece adjacent the ends of the cross piece.

2,281,040
THERMIONIC RELAY CIRCUIT
Robert M. Kalb, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 26, 1941, Serial No. 390,464
10 Claims. (Cl. 175—320)



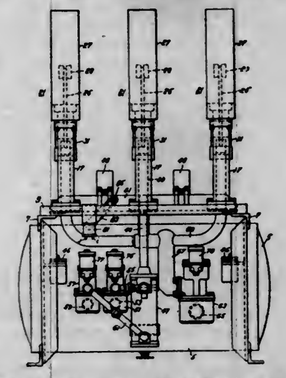
1. A rectified reaction thermionic tube circuit comprising a multigrid tube, a feedback circuit therefor and a condenser in said feedback circuit for controlling the relation between the characteristic curve of anode current with respect to input to said circuit on increasing input and the said characteristic curve for decreasing input.

2,281,041
HIGH FREQUENCY ELECTRON DISCHARGE TUBE
Emile Labin, New York, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application February 19, 1941, Serial No. 379,559
6 Claims. (Cl. 250—27.5)



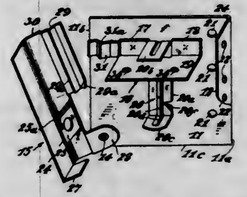
1. A high frequency vacuum tube arrangement comprising a cylindrical anode forming a part of the envelope, a grid electrode assembly arranged on a cylindrical surface of a given diameter arranged concentrically of said anode, a concentric transmission line external of said envelope, means interconnecting said outer conductor and said anode, and means interconnecting said inner conductor and said grid, each of said interconnecting means comprising a generally conical tapering member, one of said conical members being disposed within the other of said conical members, whereby a substantially uniform gradient between the anode and the grid structures is obtained.

2,281,042
CIRCUIT INTERRUPTER
John B. MacNeill, Wilkinsburg, Benjamin P. Baker, Turtle Creek, and Andrew H. Bakken, Edgewood, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 11, 1940, Serial No. 313,430
12 Claims. (Cl. 200—148)



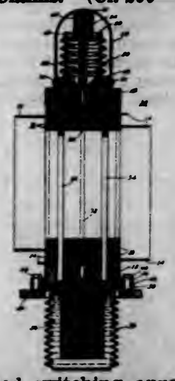
1. In a gas blast circuit breaker, separable contacts for establishing an arc, a source of gas under pressure, means for directing a blast of gas from said source against the arc to extinguish the arc, operating means actuated by gas under pressure from said source for moving said contacts to closed position, means for positively mechanically holding said contacts in the closed position, and said holding means being operated mechanically by the pressure of said source for releasing said contact means to move to open position with the pressure from said source for releasing the holding means applied prior to the application of force to the moving contact tending to move it in opening direction.

2,281,043
VENETIAN BLIND BRACKET
Harry H. Nelson, New York, N. Y., assignor, by mesne assignments, to Lorentzen Hardware Mf'g. Corp., New York, N. Y., a corporation of New York
Application March 29, 1940, Serial No. 326,573
16 Claims. (Cl. 156—17)



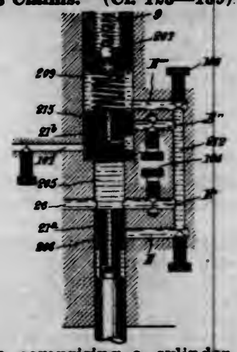
1. A Venetian blind bracket comprising: a vertical plate, and a laterally projecting flange at the rear of the plate for mounting the bracket on the forward face of a window frame, the vertical plate projecting beneath the bottom of the flange and having the rear edge of the projecting portion positioned flush with the rear surface of the flange.

2,281,044
ELECTRICAL SWITCHING APPARATUS
Kirk A. Oplinger, Verona, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 6, 1941, Serial No. 405,585
6 Claims. (Cl. 200—152)



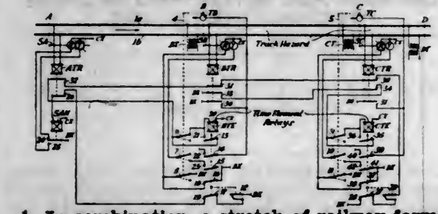
1. In a sealed switching apparatus having a plurality of conductor members disposed in spaced relation, in combination, a conducting liquid disposed in the switching apparatus, the conducting liquid being disposed for movement to progressively bridge the conductor members, a chamber associated with the spaced conductor members and disposed to receive the conducting liquid under predetermined conditions, a gas capable of reducing arcing carried in the sealed apparatus in the chamber and above the conducting liquid, and a valve disposed within the chamber, the valve being disposed for operation under predetermined conditions to close the chamber from the remaining portion of the sealed apparatus to maintain the gas within the chamber substantially free from the conducting liquid and the conducting liquid in the remaining portion of the sealed apparatus substantially free from the gas.

2,281,045
PUMP
Jean Outin, Paris, France, assignor to Société La Precision Mecanique, Paris (Seine), France, a society of France
Application February 10, 1937, Serial No. 125,129
In France February 19, 1936
13 Claims. (Cl. 123—139)



1. A pump comprising a cylinder, an intake port in a wall of said cylinder for supplying fluid to said cylinder from a source of fluid supply, an exhaust port remote from said intake port in a wall of said cylinder, first piston means in said cylinder for forcing fluid from said intake port to said exhaust port and being movable to cover and uncover successively said intake port, a second piston movably mounted and spaced from said first piston in said cylinder between said intake port and said exhaust port and movable by fluid displaced by said first piston, conduit means communicating with said cylinder adjacent said intake port at one end of said second piston and adjacent said exhaust port at an opposite end of said second piston for by-passing said second piston, means for limiting the movement of said second piston toward said first piston, and a second exhaust port in a wall of said cylinder adjacent said second piston and communicative with said intake port through said cylinder when uncovered by movement of said second piston.

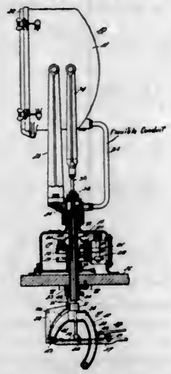
2,281,046
RAILWAY TRAFFIC CONTROLLING APPARATUS
Easton E. Parrill, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application March 25, 1941, Serial No. 385,040
7 Claims. (Cl. 246—39)



1. In combination, a stretch of railway formed with a first and a second track section which a train travels in the order named when operating in the normal direction of traffic, a signal and an automatic train stop located at the entrance of the second section to govern traffic entering that section, a track relay for each of said sections, a time element relay provided with front contacts which are closed only after the relay has been energized for a preselected time interval; an energizing circuit including a contact operatively connected to said automatic train stop and closed in the stop position, a back contact of the track relay for said first section and a front contact of the track relay for said second section to energize said time element relay; a first operating circuit including a front contact of said time element relay for operating said train stop to a clear position, and a second operating circuit including a front contact of said time element relay and a contact operatively connected to said train stop and closed at the clear position for operating said signal as required to display a proceed indication.

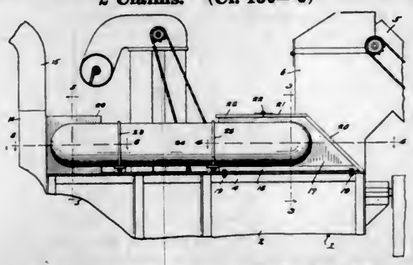
2,281,047
CONTROL MECHANISM FOR SEARCHLIGHT
Willis A. Pennow, Cleveland, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 26, 1940, Serial No. 331,764
4 Claims. (Cl. 240—61.1)

4. The combination with a searchlight having a drum element mounted for movement in azimuth and elevation, of a mechanism for actuating and holding the drum in any desired position comprising a first substantially rigid member for actuating the drum in azimuth, a second member for actuating the drum in elevation, braking means comprising a stationarily mounted band element and a cooperating shoe element carried by the first member for retaining the drum in any desired position in azimuth, a support member rigidly attached to the lower end of the first member, a single lever pivotally mounted upon the support member and pivotally



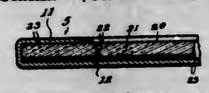
attached to the second member for actuating said first and second members, a spring-biased lever handle pivotally mounted on the free end of the lever and cooperating with the support member for retaining the lever in any desired position to hold the drum in a corresponding position in elevation, and lever means controlled by the lever handle on the lever for releasing the shoe element of the braking means, whereby the drum may be fully released for movement in azimuth and elevation and locked against such movement by single operations of the lever handle.

2,281,048
SUCTION CLEANER
Simeon Lee Pool, Ocheyedan, Iowa
Application January 2, 1941, Serial No. 372,908
2 Claims. (Cl. 130—6)



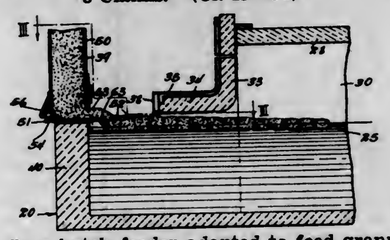
1. In a dust-removing mechanism for corn shellers, a casing, a concave in the casing, an upwardly convexed cap supported above the concave, delivery means discharging on the concave, a dust box on the casing, above the cap and provided at one side with a suction conduit, a depending first baffle fixed closely adjacent to the concave and the cap and located on the same side thereof as the suction conduit, and an angular second baffle disposed on the opposite side of the concave and the cap, the second baffle comprising a substantially vertical depending flange extending upwardly from the concave and the cap, and a substantially horizontal flange extended toward the suction conduit and overhanging the cap.

2,281,049
LUMINOUS INDICIA DISPLAY DEVICE
Lawrence F. Powell, Denton, Tex.
Application March 26, 1941, Serial No. 385,343
1 Claim. (Cl. 40—134)



In a luminous display device, a metallic casing including a solid back wall and a front wall integral therewith and provided with a window opening for display, a solid transparent panel located between the front and rear walls and tightly held thereby to completely close the window opening, characters of luminous material applied to the face of the panel next to the back wall and viewable through the panel by way of the window opening, a protective coating applied to the face of the rear wall next to the panel for protecting the luminous material, and a black coating applied to the rear and front walls to provide black background and framing respectively for accentuating the luminosity of the characters through the panel.

2,281,050
BATCH FEEDING APPARATUS
Joseph H. Redshaw, Homestead, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application April 11, 1940, Serial No. 329,089
8 Claims. (Cl. 49—54)

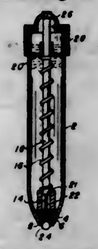


1. In a batch feeder adapted to feed granular batch in layers on a bath of material, a device movable forwardly and rearwardly to assume positions above the bath and to carry forwardly a layer of batch therewith, means suspending the device in swinging relation to provide for its forward and rearward movement, and means for depositing the batch on the bath from the forward extremity of said device as the latter is moved rearwardly.

2,281,051
DROP METER AND DISPENSER
Albert J. Roger, Oakland, Calif.
Application May 20, 1940, Serial No. 336,279
3 Claims. (Cl. 221—148)

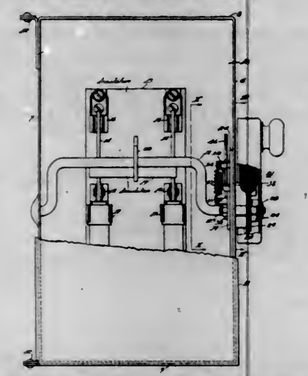
1. In a dispenser, a cylindrical shell having a flexible diaphragmatic closure to close one end of the cylinder, a tapered portion providing an axial port with an exteriorly disposed valve seat recess forming the other end closure of the cylinder, an axially disposed cylindrical metering chamber communicating with said port and disposed inwardly of said shell, a deformable valve seat in said recess; a reciprocating member hav-

ing valve means for cooperation with the seat, a stem portion passing through said port, a piston portion for separating liquid from the interior of the shell and forcing it from said metering



chamber, and a plunger extending from the piston portion to the diaphragmatic closure; and spring means for closing said valve, deforming said seat, and communicating the metering chamber with the main chamber of said shell.

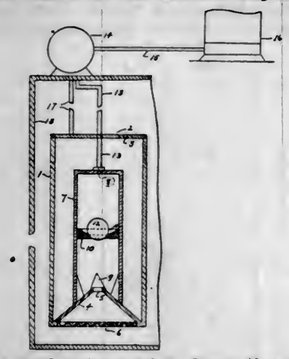
2,281,052
SAFETY SWITCH
John W. Samselius, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 30, 1940, Serial No. 363,419
9 Claims. (Cl. 200—50)



1. In a switch mechanism, in combination, a switch member, an operating shaft therefor, an operating handle rotatably mounted on said shaft and having a hub portion surrounding the shaft, a yielding member, and a floating member having a lost-motion connection to the operating shaft for actuating the switch member, said floating member engaging the hub portion of said handle to establish a predetermined tension on said yielding member, said floating member having an opening therein of a greater diameter than said hub portion, said hub portion having a shoulder thereon engaging one side of said floating member.

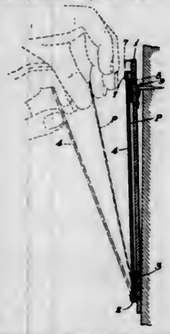
2,281,053
AUTOMATIC INTAKE AND OUTLET VALVE
John Seymour Seney and Harvey Neeb Seney, Chesterfield County, Va.
Application March 8, 1940, Serial No. 322,926
4 Claims. (Cl. 210—170)

1. The combination with a fuel feed pump for feeding fuel to a furnace, a fuel supply tank, of a fuel straining device within said supply tank, said fuel straining device comprising a chambered housing having its lower end open, strainer means within said open lower end of the housing, an inverted chambered container within the housing, a fuel supply pipe connecting the upper end of the container and the pump for supplying fuel from the chamber of the container to the pump, a check valve within the chamber of the container for trapping fuel above the check valve on the suction impulses of the



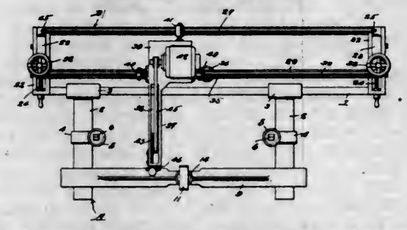
pump, a fuel return pipe from the pump and discharging into the chamber of the housing, the lower end of the container below the check valve being provided with means for allowing fuel to enter the chamber of the container from the chamber of the housing below the check valve, and means between the container and strainer for allowing fuel to enter the chamber of the container from the chamber of the supply tank through the strainer below the check valve.

2,281,054
PICTURE HOLDER
André Smith and Attilio Banca, Maitland, Fla.
Application March 31, 1941, Serial No. 386,053
1 Claim. (Cl. 40—156)



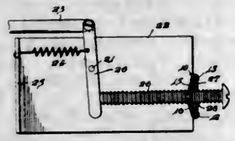
A mat-simulating device for the temporary display of a print, said device comprising a relatively thin, rectangular, plane panel, a rectangular transparent plate which is narrower and shorter than the panel, two open-end sockets on the face of the panel, one near each of the lower corners of the panel, for removably supporting the lower edge of the plate so that the plate may be tilted to swing the upper portion thereof away from the panel for the insertion of a print into the space between the panel and the plate, with the lower edge of the print resting in said sockets, or the removal of the print from such space, said sockets projecting but slightly beyond the plane of the panel, and means on the face of the panel which is movable by the fingers down into engagement with the midportion of the upper edge of the plate to hold the plate against the print and the print against the panel, said last-mentioned means being movable upwardly to release the plate and the print, the four marginal plane portions of the panel which project beyond the edges of the print and the edges of the transparent plate being exposed to view and painted white to simulate an unframed picture-mat.

2,281,055
MOWER SHARPENER
William V. Smith, Greenville, Ill.
Application April 2, 1940, Serial No. 327,501
2 Claims. (Cl. 51—48)



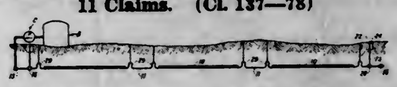
1. In a lawn mower sharpener, a frame, a carrier, means for mounting the carrier on the frame for raising and lowering, a track on the carrier, means under the control of an operator and cooperating with the carrier and the track to bow the track adjustably, a lever, means for mounting the lever on the track for vertical tilting movement transversely of the track and for movement lengthwise of the track, a sharpening element carried by the lever, a guide carried by the lever and movable with the lever along a lawn mower blade to be ground, and means for holding the lever in such position that the sharpening element will cooperate with the blade to be sharpened.

2,281,056
FASTENING DEVICE
George A. Tinnerman, Cleveland, Ohio, assignor, by mesne assignments, to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application November 27, 1939, Serial No. 306,357
7 Claims. (Cl. 151—30)



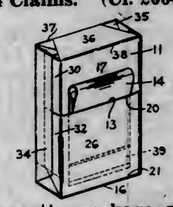
1. In an assembly comprising a threaded bolt or screw adapted to be threadedly engaged in a threaded opening in a substantial nut element, spring locking means associated with said nut element comprising a sheet metal fastener provided with resilient preformed thread engaging means, said thread engaging means corresponding substantially to the helix of the bolt thread and being normally out of phase with the threads on said bolt fastener, said sheet metal fastener being nonrotatably attached to said nut element, whereby upon threading the bolt in said threaded opening in the nut element into threaded engagement with said thread engaging means of the sheet metal fastener, said thread engaging means have a pronounced binding action with the threads of said bolt to prevent relative rotation thereof with respect to said nut element.

2,281,057
LIQUID STORAGE AND DISTRIBUTION SYSTEM
William von Phul, Jr., New York, N. Y.
Application October 23, 1940, Serial No. 362,405
11 Claims. (Cl. 137—78)



1. A system for storing and distributing liquids comprising a plurality of spaced apart storage containers formed of sections of pipe for storing and distributing liquid, each section of pipe being of materially larger cross-sectional area than is required to distribute said liquid but smaller in cross-sectional area than the usual storage tank, pipes of little storage capacity and small cross-sectional area connecting said storage containers, checking means in each pipe of little storage capacity for isolating the liquid in said containers, and means to introduce liquid into said pipes and containers and remove it therefrom.

2,281,058
CIGARETTE PACKAGE WRAPPER
Clarence A. Winterbourne, Seymour, Conn.
Application September 20, 1939, Serial No. 295,777
4 Claims. (Cl. 206—48)

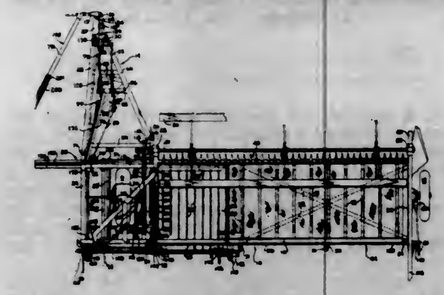


1. In a cigarette package wrapper, a single strip of flat sheet material having portions adapted to be folded about a package of cigarettes to enclose the same and a portion folded upwardly from the bottom portion of said wrapper and having side sections to embrace the sides of said wrapper to form a match receiving pocket for a loose match book to protect the match scratching pad from moisture.

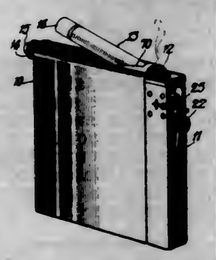
2,281,059
WINDROW HARVESTER
Ralph L. Anderson and Alvin W. Oehler, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application June 30, 1939, Serial No. 282,026
9 Claims. (Cl. 56—23)

1. In a windrower, a transverse wheel supported frame structure having an opening for discharging harvested crops into a windrow, said frame structure comprising a front transverse beam and a rear upper transverse beam extending substantially the entire width of the structure, a lower rear beam disposed below said upper rear beam and extending from the outer end of said frame structure to said crop discharge opening, a backboard extending between said upper and lower rear beams, there being an unrestricted opening in the frame rearwardly of said front beam and beneath said upper rear beam, a cutter bar mounted on said frame, and

a platform conveyor for moving said crops from said cutter bar to said discharge opening, means for driving said conveyor including a drive shaft mounted on the frame at one side of said discharge opening for rotation about a fore and aft extending axis, a driving pulley mounted on said shaft, a driven pulley associated with said conveyor and mounted on the frame on the opposite side of said discharge opening from said driving pulley, a power transmitting belt trained over said pulleys, and a pair of idler pulleys disposed side by side on said upper transverse beam above said discharge opening and journaled for independent rotation on a common axis, the two runs of said power transmitting belt being trained over said idler pulleys, respectively.

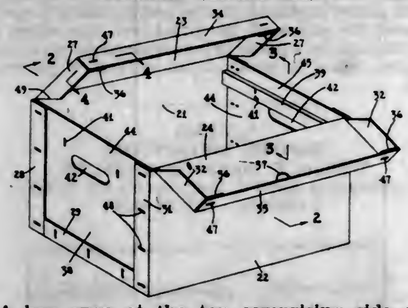


2,281,060
DEVICE FOR DISPENSING AND LIGHTING CIGARETTES OR THE LIKE
Louis V. Aronson, Newark, N. J., assignor to Art Metal Works, Inc., a corporation of New Jersey
Application March 11, 1938, Serial No. 195,245
9 Claims. (Cl. 206—41.3)



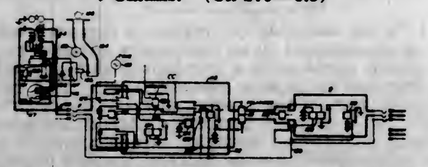
1. A device for containing and delivering cigarettes, comprising a magazine for receiving a plurality of the cigarettes in side-by-side relationship, a cartridge-like compartment for receiving cigarettes individually from said magazine, said compartment being mounted for rotation about its own longitudinal axis, said compartment having a longitudinally extending opening along one side for permitting a cigarette to enter the compartment from said magazine, means for rotating said compartment whereby said opening may be turned toward the exterior of the device, means at one end of said compartment for retaining one end of a cigarette therein, and additional means within the compartment operative to deflect the other cigarette end, while said first named cigarette end is held in position, outwardly of the compartment through said opening to a freely exposed position accessible to the mouth of the smoker.

2,281,061
BOX
Paul F. Beeye, St. Paul, Minn., assignor to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application March 17, 1939, Serial No. 262,354
1 Claim. (Cl. 229—44)



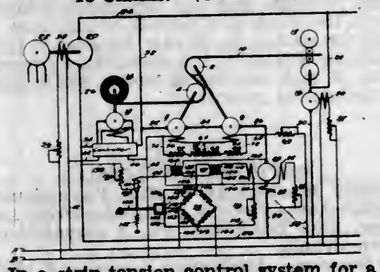
A box open at the top comprising side and end walls and a bottom connected therewith, said end walls being free at their upper ends and continuous at such locality from one side wall to the other, a closure for the box comprising closure flaps hinged to the two side walls of the box and extending substantially in a common plane when in closing position, said flaps meeting intermediate the side walls of the box, flanges issuing from the ends of said flaps, other flanges issuing from the other edges of said flaps and disposed in juxtaposition when the closure is in closing position, extensions disposed on certain of said flanges and secured to the other flanges for holding the flanges in extended position, said first named flanges being disposed upon the interior of the box, and supporting cleats secured to the said end walls upon the inner surfaces thereof at localities situated below the upper edges of the end walls of the box distances substantially equal to the heights of the flanges, said first named flanges throughout substantially the entire length thereof engaging said cleats and resting thereon whereby stresses created by loads placed upon the closure of the box are transmitted to the lateral walls of the box through the flanges of the closure, said flanges engaging the end walls of the box upon the inner surfaces thereof to resist weaving of the box through pressure applied to the corners of the box.

2,281,062
TELEPHONE SYSTEM
James W. Brubaker, Freeport, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 4, 1939, Serial No. 254,572
7 Claims. (Cl. 179—6.3)



1. In a telephone system, a line equipped with coin-receiving mechanism at the substation, a central office having automatic switches therein, a subscriber's line, an operator's position, means controlled by the party at said coin substation for selectively operating said automatic switches to establish either a connection to said subscriber's line or a connection to said operator's position, means for supplying current to said coin line, impedance means, means responsive to the deposit of a coin in said receiving mechanism when a connection has been extended to the subscriber's line for rendering said impedance means effective to change the intensity of the current flowing in said line to transmit a distinctive signal to the central office, means at the central office responsive to said distinctive signal, and means responsive to the deposit of a coin in said mechanism when a connection has been extended to said operator's position for sending a distinctive signal to the operator without rendering said impedance means effective.

2,281,063
CONTROL SYSTEM
Willard G. Cook, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 29, 1939, Serial No. 306,661
13 Claims. (Cl. 80—32)



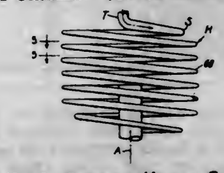
1. In a strip tension control system for a pair of tensioning rolls over which the strip passes in travelling between a roll stand and a reel of a strip rolling mill, in combination, a separate dynamo-electric machine connected in driving relation with each of the tensioning rolls, means connecting the armatures of said dynamo-electric machines to a source of potential to which the roll stand and reel motors are connected and which is selectively variable to vary the speed of the mill, and auxiliary generator connected in series circuit relation with said dynamo-electric machines, means providing selectively adjustable substantially constant excitations for said dynaom-electric machines, and means for so controlling the said auxiliary generator as to cause said dynamo-electric machines to exert substantially constant torques on the strip regardless of variations in the value of the potential of the source of potential which energizes the reel and roll stand motors.

2,281,064
MULTIPLE GLAZED UNIT
Oscar D. Englehart, Brackenridge, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application November 22, 1939, Serial No. 305,646
1 Claim. (Cl. 20—56.5)



A double glazing unit comprising a plurality of glass plates, spacers between the plates at the margins thereof providing a dead air chamber, a frame substantially of U-shape in cross-section surrounding the glass plates, and a layer of hygroscopic material interposed between the frame and the spacers between the plates.

2,281,065
FLUID SEPARATION
Jean Loumiet et Lavigne, Playa de la Teja, Itabo, Cuba
Application December 17, 1936, Serial No. 116,333
In Cuba May 14, 1936
14 Claims. (Cl. 62—175.5)



1. The method of separating a fluid into component parts mechanically and by fractional condensation which comprises expanding the fluid in vapor form while compelling it to travel at high velocity in a helical path under heat conditions designed to condense the denser component, and said path being so formed as to oppose high frictional resistance to flow of the fluid at the outer side of the path for converting some of the energy of the fluid frictionally into heat and causing the reevaporation of a condensed portion of the lighter component.

2,281,066
SET-OFF SKID FOR RAILWAY VEHICLES
Irving N. Eustis, Fairmont, Minn., assignor to Fairmont Railway Motors, Inc., Fairmont, Minn., a corporation of Minnesota
Application November 29, 1940, Serial No. 367,711
7 Claims. (Cl. 105—162)



1. In combination with a railway vehicle having pairs of front and rear rail engaging wheels, and means carried by the vehicle intermediate the pairs of front and rear wheels and including portions inclined to the horizontal and positioned closely adjacent to the associated wheels with the lowermost part of said inclined portions substantially coplanar with a plane tangent to the bottom of said associated wheels and operative when said vehicle is being moved transversely over one of the rails of a railway track for removal therefrom, to engage and skid upwardly upon said rail and raise the associated end of the vehicle with respect to the rail.

2,281,067
FILE FOLLOWER PLATE
Ed. Bergman, New York, N. Y., assignor to Art Steel Company, Inc., New York, N. Y., a corporation of New York
Application December 16, 1940, Serial No. 370,371
5 Claims. (Cl. 129—29)

2. In a file receptacle, a channel, a follower, said follower including a pair of separable shoes

slidably arranged within said channel, one of said shoes superposed upon the other, a member arranged between the shoes and journaled on one of said shoes for oscillation thereon, said



member having a cam adapted to engage the other shoe upon oscillation thereof to separate the shoes, and a tooth arranged on said member adapted to engage said other shoe to advance said other shoe upon oscillation of the member.

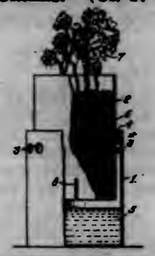
2,281,068

PLANT-GROWING AND FEEDING POT

Richard B. Farnham, Cranbury, N. J., assignor to Endowment Foundation, New Brunswick, N. J., a corporation of New Jersey

Application October 11, 1939, Serial No. 299,027

5 Claims. (Cl. 47—1.1)



5. A combined plant-growing and feeding pot especially for household use, comprising two telescopically arranged cup-like receptacles, each having considerable depth comparable with usual plant pots, the inner receptacle containing the plant and rooting material, the lower part of this receptacle having passageways therethrough, while the outer receptacle is adapted to contain a nutrient solution in amount which will flood the roots of the plant in the inner receptacle when the same is moved thereinto, and coacting means between the two receptacles for normally holding the inner receptacle so at least the plant roots therein are out of the nutrient solution, said means being actuatable, by force applied to the top part of the inner receptacle, to move it into the nutrient solution within the outer receptacle.

2,281,069

MODULATION SYSTEM

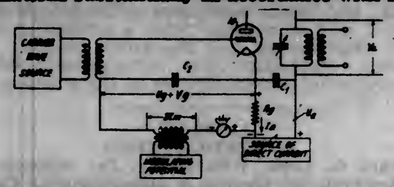
Rudolf Hofer, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application February 27, 1935, Serial No. 8,423

In Germany March 10, 1934

2 Claims. (Cl. 179—171.5)

1. In a modulation system, a source of carrier wave oscillations, a source of modulating potentials, an electron discharge tube having a control grid, a cathode and an anode, a circuit coupling said source of carrier wave oscillations to said cathode and control grid, a circuit including a source of direct current potential and an impedance coupling said source of modulating potentials to the control grid and cathode of said tube to impress modulating potentials on said control grid and cathode to modulate in said tube said oscillations substantially in accordance with said



modulation potentials, and means for correcting distortion inherently accomplished during modulation of said carrier wave oscillations by said modulating potentials including a source of direct current potential and said impedance connected between the anode and cathode of said tube, and means for setting up in said impedance potentials characteristic of the modulation frequency flowing in said last named circuit which oppose said modulating potentials.

2,281,070

METHOD OF WELDING

Charles H. Jennings, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application November 4, 1939, Serial No. 302,915

2 Claims. (Cl. 219—10)

1. A metallic electric arc welding process which comprises, depositing a powdered flux along the line of a weld on a member to be welded comprising a metallic oxide and a metal having a higher heat of oxidation than the metal of the oxide, striking an arc between a metallic electrode and the member to be welded, moving the electrode along the line of the weld while maintaining an arc voltage on the order of 35 volts and an arc current on the order of 1150 amperes to traverse the arc and melt and ignite the flux mixture on the member in advance of the arc so as to cause the flux mixture to react exothermically upon the member to produce additional welding heat and deposit at least a portion of the weld metal.

2,281,071

WINDOW CONSTRUCTION

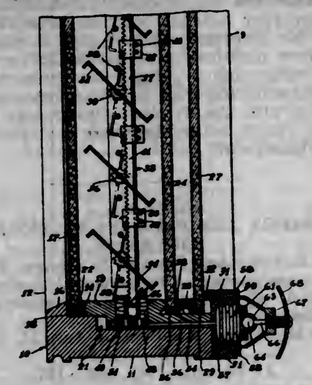
Percy E. Knudsen, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

Application March 24, 1939, Serial No. 263,927

4 Claims. (Cl. 20—56.5)

1. A multiple glazed window construction embodying a sash frame including jamb sections at the sides thereof and transverse sections connected thereto, inner and outer spaced sheets of glass disposed in the frame and having their edges sealed in the frame to provide a sealed dead air chamber, horizontal louver bars having pintles at opposite ends journaled at the sides of the frame, pinion gears upon the pintles, a rack bar engaging the gears, one of said transverse sections having an opening formed therein contiguous to an extremity of said rack bar and

means for reciprocating the bar, which means comprises an extensible diaphragm disposed to seal the opening formed in the transverse section and having an operative connection with the rack



bar to reciprocate the latter and means for extending and retracting the diaphragm for reciprocatingly operating the rack bar.

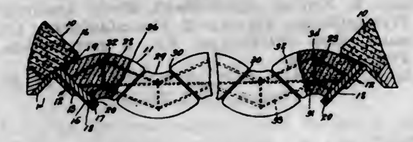
2,281,072

BUILDING WALL

Percy E. Knudsen, Pittsburgh, Pa., assignor to Pittsburgh Corning Corporation, Allegheny County, Pa., a corporation of Pennsylvania

Application July 6, 1940, Serial No. 344,247

5 Claims. (Cl. 72—40)



1. A building wall comprising a panel of glass blocks laid in superposed courses, said blocks in cross-sectional contour constituting segments of annulae and having concentric inner and outer surfaces, the blocks in each course being faced alternately inwardly and outwardly to provide flutings in the panel surface, and a rigid grid disposed between adjacent courses, said grid comprising a straight rod extending longitudinally of the panel and two similar parallel side rods bent in zig-zag fashion so as to have apices facing alternately inwardly and outwardly and conforming approximately to the flutings of the panel, said rods being directly attached at their inwardly facing apices to the first rod on opposite sides thereof, whereby the grid is truss-like in character.

2,281,073

PROTECTIVE DEVICE FOR ELECTRICAL APPARATUS

Merrill G. Leonard, Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application September 3, 1938, Serial No. 228,333

13 Claims. (Cl. 200—120)

1. In a protective link for electrical apparatus provided with a body of dielectric, in combination, a conductor which will fuse when subjected to predetermined electrical conditions, the conductor being connected in circuit relation with the electrical apparatus, a case for the fusible conductor, the case being so disposed that at least a portion of the fusible conductor is immersed in the body of dielectric, said dielectric being subject to decomposition generating gases



when exposed to an electric arc and a tube carried by the fusible conductor, said tube cooperating to predetermine the conditions at which the fusible conductor will fuse and a cap carried by the case disposed to be acted upon by the pressures generated to effect the separation of the fused portions of the conductor and to utilize the body of the dielectric to prevent arcing.

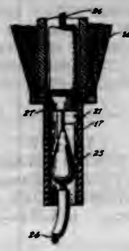
2,281,074

PROTECTIVE DEVICE FOR ELECTRICAL APPARATUS

Merrill G. Leonard, Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

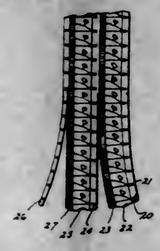
Application September 3, 1938, Serial No. 228,334

8 Claims. (Cl. 200—120)



1. In a protective device for electrical apparatus provided with a dielectric, in combination, a fusible conductor, a tubular casing for the fusible conductor, a projectile connected to the fusible conductor and disposed in a tubular casing, the projectile being so disposed that it may be driven from the tubular casing when acted upon by the gases generated by the fusing of the fusible conductor, a piston disposed for movement in the tubular casing carried by the projectile, the piston being loosely mounted on the projectile whereby when they are driven from the tubular casing they will separate and the projectile will travel at a high speed effecting a quick separation of the fused portions of the fusible conductor.

2,281,075
COLOR PHOTOGRAPHY
Allen L. McCormick, Chalmers C. Smith, and William T. Crespinel, Los Angeles, Calif., assignors to Cinecolor, Incorporated, Los Angeles, Calif., a corporation of California
Application September 2, 1938, Serial No. 228,126
4 Claims. (Cl. 88—16.2)

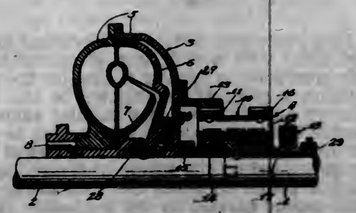


1. The method of producing a plurality of reduced size motion picture prints in color and sound which includes: producing a set of 35 mm. negatives having a series of color-value images thereon; producing from said set of negatives a plurality of series of reduced size positive images in color on a single 35 mm. film strip having two sets of perforations therein; producing a plurality of reduced size sound tracks on said film strip, said picture and sound images all together occupying but 32 mm. of said film; and slitting said film longitudinally to produce a plurality of strips of reduced size picture images in color and sound which are duplicates of each other.

2,281,076
METHOD OF MAKING REFLECTING GLASS
Arthur D. Nash, Sewickley, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
No Drawing. Application November 1, 1938, Serial No. 238,223
4 Claims. (Cl. 49—79)

1. In the production of reflecting sheet glass containing a relatively small percentage of a silver salt, the steps comprising melting a glass batch containing a silver salt, forming the molten glass into sheets, and subsequently subjecting these sheets to heat in a reducing atmosphere.

2,281,077
VARIABLE SPEED TRANSMISSION
Willard L. Pollard, Evanston, Ill.
Application September 20, 1939, Serial No. 295,792
10 Claims. (Cl. 74—189.5)

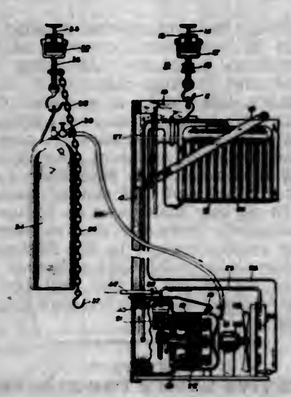


1. A variable speed transmission comprising a rotatable power transmitting drive member, a rotatable power transmitting driven member coaxial therewith, a hydraulic torque converter, and a planetary gear construction, said planetary gear construction comprising a gear carrier secured to said drive member, planet gearing carried by said gear carrier, a sun gear meshing with said planet gearing, and a ring gear meshing with said planet gearing, releasable means for holding said sun gear against rotation, one-way clutch means for causing said sun gear to rotate with said drive member, said hydraulic torque converter comprising a pump rotor connected to rotate with said ring gear, a turbine rotor connected to rotate with the driven member, and a torque varying stator acting between said pump rotor and turbine rotor.

2,281,078
PALE ROSIN AND PROCESS OF PRODUCING THE SAME
Robert E. Price and Ismond E. Knapp, Picayune, Miss., assignors to Crosby Naval Stores, Incorporated, Picayune, Miss., a corporation of Mississippi
No Drawing. Application July 12, 1938, Serial No. 218,880
14 Claims. (Cl. 260—107)

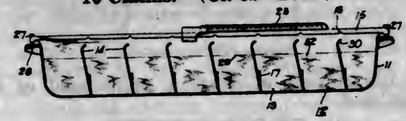
8. The process of purifying rosin, which comprises the steps of contacting a solution of said rosin with acid-treated bentonite and maintaining the solution at a temperature less than about 28° C. for a period of time proportionately less than about one hour as the order of temperatures range upwardly toward 28° C., whereby to produce a substantially decolorized rosin without materially disturbing the optical rotation of the rosin.

2,281,079
REFRIGERATING APPARATUS
James B. Rollins, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 17, 1939, Serial No. 262,371
9 Claims. (Cl. 34—105)



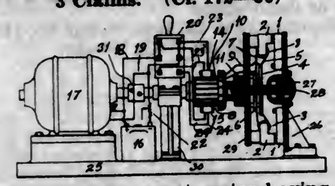
9. In apparatus for dehydrating refrigerating units, the combination of heating means, means for progressively moving refrigerating units, each including a plurality of chambers adapted to contain refrigerant, relative to and in heat exchange relation with said heating means, and means for passing a dehydrating agent through said chambers while said units are moving relative to said heating means.

2,281,080
LIQUID CONGEALING APPARATUS
Jules N. Saler, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 16, 1939, Serial No. 273,848
10 Claims. (Cl. 62—108.5)



1. In liquid congealing apparatus, the combination of an ice pan, a removable grid disposed therein for dividing the pan into a plurality of cells for forming separate pieces of ice, said grid embodying members movable relative to and independently of each other, a slide extending longitudinally of said grid and leverage means arranged to move longitudinally of the grid on said slide into cooperative relation with only one of said movable members at a time and being thereafter angularly movable while still attached to said slide to impart ice dislodging movement to that movable member without disturbing the remaining members.

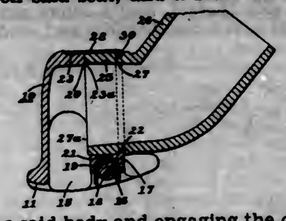
2,281,081
ELECTROMAGNET MOTOR
Garnett G. Sheldon, Ferrysburg, Mich.
Application November 6, 1940, Serial No. 364,506
3 Claims. (Cl. 172—36)



1. In an electro-magnet motor having a commutator and brushes engaging the commutator for conducting electricity to and from the commutator, a rotatable shaft supporting the said commutator and having thereon and rotatable therewith a disc like rotor having secured thereto a plurality of magnets energised alternately to opposite plurality by electricity conducted from said commutator, a bearing supporting said shaft in spaced apart relation to said commutator and supported by a stationary disc having secured thereto a plurality of permanent magnets each having poles extending substantially parallel with and adjacent the poles of the magnets energised by electricity conducted from said commutator.

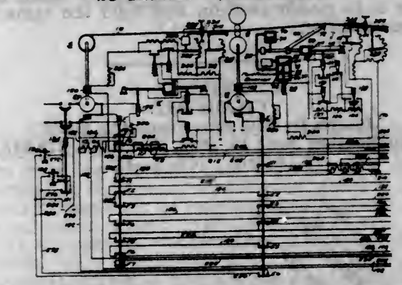
2,281,082
SWIVEL CONNECTION
Clarence Everett Stevens, Greenwich, Conn., assignor to Electrolux Corporation, Dover, Del., a corporation of Delaware
Application May 22, 1940, Serial No. 336,493
7 Claims. (Cl. 285—97.3)

1. In a suction nozzle, a hollow body formed with an inlet opening and an outlet opening, said body having a plane surface surrounding at least a portion of said outlet opening and a semi-cylindrical concave seat extending outwardly adjacent to said outlet opening and at right angles to said plane surface, a hollow outlet member having a flat end abutting said plane surface and a cylindrical outer surface rotatably received on said seat, and a semi-circular strap



secured to said body and engaging the cylindrical surface of said member to retain the latter in engagement with said seat.

2,281,083
CONTROL SYSTEM FOR ROLLING MILLS
Glenn E. Stoltz, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 28, 1938, Serial No. 204,711
25 Claims. (Cl. 80—32)



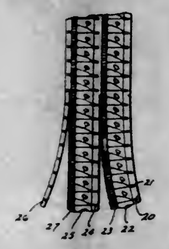
2. In a strip rolling mill having a winding reel for the strip material, means including said winding reel for applying front tension to the strip as the strip passes through the mill, and means for applying an abnormal back tension to the strip from the time the leading end of the strip enters the rolls until said end of the strip is started winding on said winding reel.

20. In a strip tensioning control system for a multi-stand metal strip rolling mill having winding and unwinding reels, means responsive to the positions of the leading and following ends of the strip with respect to the roll stands and winding and unwinding reels for establishing and maintaining substantially constant reduction-due-to-tension effects on the strip at each roll stand while the strip is passing therethrough throughout the entire length of the strip as it passes through the mill.

2,281,084
RANGE ASSEMBLY
Ernest E. Sutherland and Lester E. Lown, Mansfield, Ohio, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 12, 1939, Serial No. 308,782
8 Claims. (Cl. 126—194)

6. In a range, a wall structure forming a chamber, a door for said chamber, a unitary sub-assembly separate from said wall structure and adapted to be mounted thereon, said sub-assembly including a housing formed with two opposite walls and open at one side and a latching device mounted on said housing and disposed there-

2,281,075
COLOR PHOTOGRAPHY
Allen L. McCormick, Chalmers C. Smith, and William T. Crespinel, Los Angeles, Calif., assignors to Cinecolor, Incorporated, Los Angeles, Calif., a corporation of California
Application September 2, 1938, Serial No. 228,126
4 Claims. (Cl. 88—16.2)

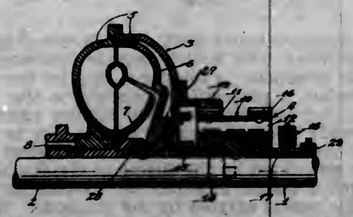


1. The method of producing a plurality of reduced size motion picture prints in color and sound which includes: producing a set of 35 mm. negatives having a series of color-value images thereon; producing from said set of negatives a plurality of series of reduced size positive images in color on a single 35 mm. film strip having two sets of perforations therein; producing a plurality of reduced size sound tracks on said film strip, said picture and sound images all together occupying but 32 mm. of said film; and slitting said film longitudinally to produce a plurality of strips of reduced size picture images in color and sound which are duplicates of each other.

2,281,076
METHOD OF MAKING REFLECTING GLASS
Arthur D. Nash, Sewickley, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
No Drawing. Application November 1, 1938, Serial No. 238,223
4 Claims. (Cl. 49—79)

1. In the production of reflecting sheet glass containing a relatively small percentage of a silver salt, the steps comprising melting a glass batch containing a silver salt, forming the molten glass into sheets, and subsequently subjecting these sheets to heat in a reducing atmosphere.

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VARIABLE SPEED TRANSMISSION
Willard L. Pollard, Evanston, Ill.
Application September 20, 1939, Serial No. 295,792
10 Claims. (Cl. 74—189.5)

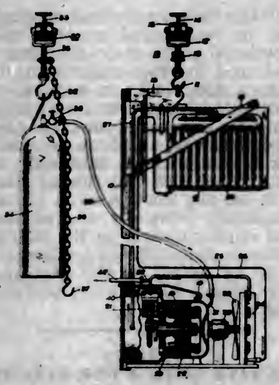


1. A variable speed transmission comprising a rotatable power transmitting drive member, a rotatable power transmitting driven member coaxial therewith, a hydraulic torque converter, and a planetary gear construction, said planetary gear construction comprising a gear carrier secured to said drive member, planet gearing carried by said gear carrier, a sun gear meshing with said planet gearing, and a ring gear meshing with said planet gearing, releasable means for holding said sun gear against rotation, one-way clutch means for causing said sun gear to rotate with said drive member, said hydraulic torque converter comprising a pump rotor connected to rotate with said ring gear, a turbine rotor connected to rotate with the driven member, and a torque varying stator acting between said pump rotor and turbine rotor.

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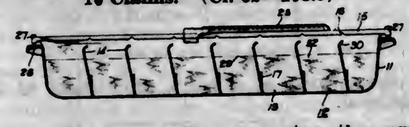
8. The process of purifying rosin, which comprises the steps of contacting a solution of said rosin with acid-treated bentonite and maintaining the solution at a temperature less than about 28° C. for a period of time proportionately less than about one hour as the order of temperatures range upwardly toward 28° C., whereby to produce a substantially decolorized rosin without materially disturbing the optical rotation of the rosin.

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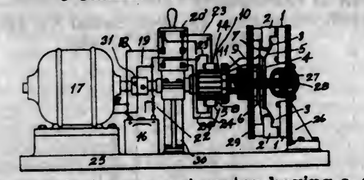
9. In apparatus for dehydrating refrigerating units, the combination of heating means, means for progressively moving refrigerating units, each including a plurality of chambers adapted to contain refrigerant, relative to and in heat exchange relation with said heating means, and means for passing a dehydrating agent through said chambers while said units are moving relative to said heating means.

2,281,080
LIQUID CONGEALING APPARATUS
Jules N. Saier, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 16, 1939, Serial No. 273,848
10 Claims. (Cl. 62—108.5)



1. In liquid congealing apparatus, the combination of an ice pan, a removable grid disposed therein for dividing the pan into a plurality of cells for forming separate pieces of ice, said grid embodying members movable relative to and independently of each other, a slide extending longitudinally of said grid and leverage means arranged to move longitudinally of the grid on said slide into cooperative relation with only one of said movable members at a time and being thereafter angularly movable while still attached to said slide to impart ice dislodging movement to that movable member without disturbing the remaining members.

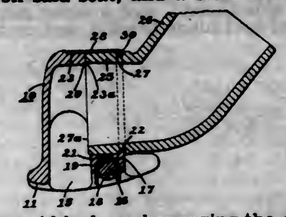
2,281,081
ELECTROMAGNET MOTOR
Garnett G. Sheldon, Ferrysburg, Mich.
Application November 6, 1940, Serial No. 364,506
3 Claims. (Cl. 172—36)



1. In an electro-magnet motor having a commutator and brushes engaging the commutator for conducting electricity to and from the commutator, a rotatable shaft supporting the said commutator and having thereon and rotatable therewith a disc like rotor having secured thereto a plurality of magnets energised alternately to opposite plurality by electricity conducted from said commutator, a bearing supporting said shaft in spaced apart relation to said commutator and supported by a stationary disc having secured thereto a plurality of permanent magnets each having poles extending substantially parallel with and adjacent the poles of the magnets energised by electricity conducted from said commutator.

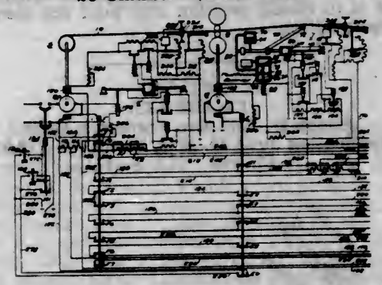
2,281,082
SWIVEL CONNECTION
Clarence Everett Stevens, Greenwich, Conn., assignor to Electrolux Corporation, Dover, Del., a corporation of Delaware
Application May 22, 1940, Serial No. 336,493
7 Claims. (Cl. 285—97.3)

1. In a suction nozzle, a hollow body formed with an inlet opening and an outlet opening, said body having a plane surface surrounding at least a portion of said outlet opening and a semi-cylindrical concave seat extending outwardly adjacent to said outlet opening and at right angles to said plane surface, a hollow outlet member having a flat end abutting said plane surface and a cylindrical outer surface rotatably received on said seat, and a semi-circular strap



secured to said body and engaging the cylindrical surface of said member to retain the latter in engagement with said seat.

2,281,083
CONTROL SYSTEM FOR ROLLING MILLS
Glenn E. Stoltz, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 28, 1938, Serial No. 204,711
25 Claims. (Cl. 80—32)



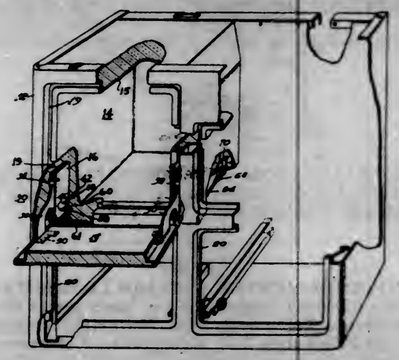
2. In a strip rolling mill having a winding reel for the strip material, means including said winding reel for applying front tension to the strip as the strip passes through the mill, and means for applying an abnormal back tension to the strip from the time the leading end of the strip enters the rolls until said end of the strip is started winding on said winding reel.

20. In a strip tensioning control system for a multi-stand metal strip rolling mill having winding and unwinding reels, means responsive to the positions of the leading and following ends of the strip with respect to the roll stands and winding and unwinding reels for establishing and maintaining substantially constant reduction-due-to-tension effects on the strip at each roll stand while the strip is passing therethrough throughout the entire length of the strip as it passes through the mill.

2,281,084
RANGE ASSEMBLY
Ernest E. Sutherland and Lester E. Lown, Mansfield, Ohio, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 12, 1939, Serial No. 308,782
8 Claims. (Cl. 126—194)

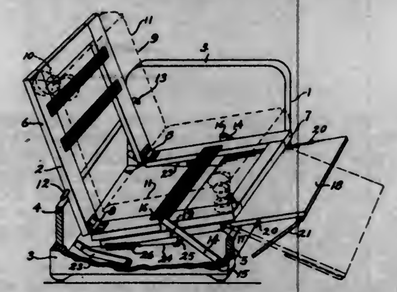
6. In a range, a wall structure forming a chamber, a door for said chamber, a unitary sub-assembly separate from said wall structure and adapted to be mounted thereon, said sub-assembly including a housing formed with two opposite walls and open at one side and a latching device mounted on said housing and disposed there-

in, a hinge bracket attached to said door and adapted to extend within said housing through the open side thereof, and a hinge pin pivotally connecting said hinge bracket and said housing,



said latching device being disposed in such position as to engage said hinge bracket when the door is in closed position and hold the same in closed position.

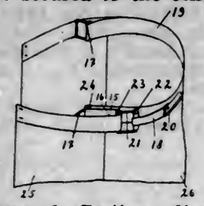
2,281,085
CHAIR BED
Joseph D. Bell, San Francisco, Calif.
Application June 19, 1939, Serial No. 279,943
6 Claims. (Cl. 5—47)



1. In a chair bed, a main frame, a movable frame comprising a back section, a seat section and a hinged connection between the same, means for supporting the latter frame on the former with freedom of movement between chair and bed positions, an extension carried by the seat section and being movable from a position underneath the seat section to a position in front thereof, releasable means for supporting the hinge connection when the second frame is in bed position and means operable by movement of the extension for actuating the hinge supporting means.

2,281,086
TROUSERS
Alfons Blankenhorn, Zurich, Switzerland
Application December 2, 1938, Serial No. 243,582
In Switzerland February 22, 1938
1 Claim. (Cl. 2—237)

Trousers having a waistband thereon, said waistband including a folded part having two folds, the folds being connected together and fitted with slidable attachments, one slidable attachment being fixed to the waistband, and a pulling device secured to the other attachment

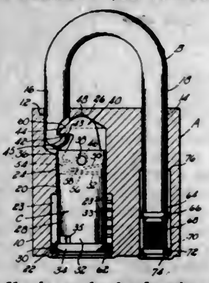


for the purpose of effecting adjustment of the waistband.

2,281,087
RUBBER CEMENT
Walter M. Kutz, Pittsburgh, Pa., assignor to The Ssolin Corporation, New York, N. Y., a corporation of West Virginia
No Drawing. Application September 27, 1939, Serial No. 296,849
2 Claims. (Cl. 260—760)

1. The method of producing a rubber cement of low viscosity in a short time, which consists of dispersing rubber in a non-aqueous solvent therefor and boiling the dispersion under reflux in the presence of metallic copper for a period of about two hours.

2,281,088
RAP-PROOF PADLOCK
Robert C. Nelson, Berlin, Conn., assignor to Eagle Lock Company, Terryville, Conn., a corporation of Connecticut
Application June 28, 1940, Serial No. 343,028
7 Claims. (Cl. 70—38)



1. In a padlock, a body having spaced bores open from one end, a shackle mounted in said bores, said body having a bore intermediate of said spaced bores and open from the other end, and a locking insert within said bore including a locking pawl mounted for vertical, pivotal, and rotatable movement.

2,281,089
ENVELOPE MACHINE
Abraham Novick, Flushing, N. Y., assignor to F. L. Smithe Machine Co., Inc., New York, N. Y., a corporation of New York
Application April 17, 1940, Serial No. 330,006
25 Claims. (Cl. 93—62)



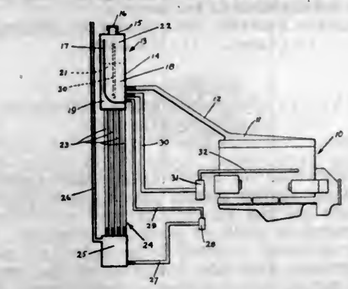
1. A transfer mechanism for planiform articles of the class described, such as envelopes, said

transfer mechanism comprising a run of mechanism adapted to advance a continuous band of said articles along a prescribed path to a transfer station in fanned out, overlapping relation, transfer means at a transfer station operating transversely of the direction of said path to engage each article in a zone at one side of the middle of said path and pull it in a sidewise direction relative to the direction of said path, individualizing mechanism for seizing a margin of the article which is at the opposite side of the zone engaged by the transfer means from the center of the article and for pulling the article to continue the advance initiated by the transfer means, said transfer means being timed in its operation relative to the individualizing mechanism to insure individualization of the articles.

2,281,090
ELECTROLYTIC MANUFACTURE OF POTASSIUM PERSULPHATE
Modesto Salleras, Paris, France, assignor to Buffalo Electro-Chemical Company, Inc., a corporation of New York
Application March 31, 1938, Serial No. 199,294
In France March 31, 1937
6 Claims. (Cl. 204—82)

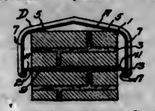
4. The continuous method of producing potassium persulphate electrolytically without the use of a porous diaphragm which comprises electrolyzing a substantially saturated aqueous solution of potassium acid sulphate acidified with sulphuric acid while maintaining such a temperature and continuing the electrolysis that a precipitate of potassium persulphate is produced, the solution subjected to electrolysis being continuously moved upwardly between the electrolyzing electrodes and continuously removed from the cell at such a rate as to carry out the precipitated potassium persulphate and prevent deposition of the same in the cell or on the anode, compressed air being discharged into the solution passing between the electrodes to aid additionally in preventing deposition of solid potassium persulphate on the anode.

2,281,091
METHOD AND MEANS OF VAPOR PHASE COOLING OF FLUID JACKETED CYLINDERS
John H. Wallace, Alhambra, Calif., assignor to Pacific Enterprise Products, Inc., Los Angeles, Calif., a corporation of California
Application April 26, 1940, Serial No. 331,815
2 Claims. (Cl. 123—174)



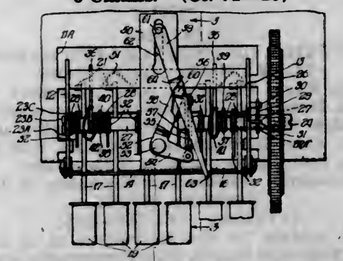
1. In combination with a jacketed engine, a circulating system, including a reservoir for a fluid cooling medium disposed at a level above the engine jacket and connected with the top thereof, whereby a body of cooling liquid may accumulate in the engine jacket and maintain the same filled, a separate closed conduit leading from said reservoir, a circulating pump to which said conduit connects, a discharge conduit connected to the pump and delivering cooling liquid to the bottom of the engine jacket in a quantity to maintain the engine jacket completely filled with cooling liquid, a draw-off passageway formed in connection with said reservoir and through which liberated vapors from the cooling fluid may pass in direct unrestricted flow, a condenser beneath said reservoir to and through which said vapors pass, an accumulating tank beneath said condenser for receiving the condensate, a conduit connected therewith, a make-up pump and a conduit from the make-up pump to the storage reservoir.

2,281,092
COPING CAP
Paul B. Andrews and Doremus L. Mills, Rome, N. Y., assignors to Revere Copper and Brass Incorporated, Rome, N. Y., a corporation of Maryland
Application April 26, 1940, Serial No. 331,780
9 Claims. (Cl. 72—86)



1. A coping comprising trough-like sheet metal sections adapted to be placed in inverted position over the top of a wall, a trough-like cover adapted to be placed in inverted position over the adjacent ends of said sections in closely adjacent relation thereto, the portions of said sections adapted to lie beneath the cover being formed with transverse corrugations extending from adjacent one longitudinal edge thereof to the other, which corrugations present a plurality of upstanding ridges adapted to lie adjacent each of the opposite ends of said cover, the ridges projecting above the bodies of the sections, and the corrugations presenting drainage grooves between said ridges.

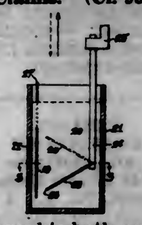
2,281,093
RADIO TUNING APPARATUS
Harold Z. Benton, Glencoe, and Lloyd P. Morris, Chicago, Ill., assignors to Crowe Name Plate & Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application December 4, 1939, Serial No. 307,362
6 Claims. (Cl. 74—10)



1. In a device for adjusting radio tuning apparatus, a frame, a transverse shaft rotatably supported in the frame, means for rotating the shaft, the shaft having a portion non-circular in cross-section, an arm loosely fitted on the non-circular section of the shaft to rotate therewith,

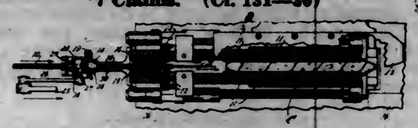
an operative connection from said arm for actuating tuning means, and means for taking up slack between the arm and shaft.

2,281,094
AGITATING DEVICE FOR PHOTOGRAPHIC DEVELOPING BATHS
Carl C. Chambers, Lansdowne, Pa., assignor to Edward Stern & Company, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania
Application March 26, 1940, Serial No. 326,012
19 Claims. (Cl. 95—89)



1. In a photographic bath agitation device, including means for supporting a submerged film out of contact with agitating structure, the combination of an agitator of blade form, means for reciprocating the agitator across the surface of a film in a direction parallel to the surface, and means whereby the agitator yields under the action of liquid flow at the end of each reciprocation.

2,281,095
NEEDLE CONSTRUCTION FOR CIGAR WRAPPING MECHANISMS
Sigurd Clausen, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey
Application April 11, 1939, Serial No. 267,232
7 Claims. (Cl. 131—36)

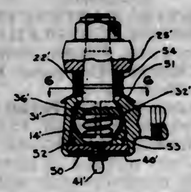


5. In a cigar machine, the combination with an actuating member, of a single unitary mount pivotally supported on said member, a tuck needle supported in said mount, and means for releasably securing the needle in axially immovable relation in said mount, said needle being adapted to be withdrawn axially from said mount when released.

2,281,096
PRODUCTION OF UNSATURATED HALOGEN-CONTAINING COMPOUNDS
William Enga, Piedmont, Calif., Herbert P. A. Groll, Hamburg-Wellingsbuttel, Germany, and Alasdair W. Fairbairn, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application November 20, 1939, Serial No. 305,334
11 Claims. (Cl. 260—655)

10. A process for the production of an unsaturated aliphatic halide which comprises reacting an unsaturated ethylene linkage containing aliphatic halide possessing at least three carbon atoms and having at least two replaceable hydrogen atoms distributed on two contiguous carbon atoms only one of which is attached by an ethylene linkage to a still another carbon atom, with a free halogen selected from the group consisting of chlorine and bromine in the vapor phase at a temperature above 360° C. but below that at which substantial rupture of the carbon skeleton occurs, and for a period of time sufficient to effect conversion of the primary material to a product predominating in an unsaturated aliphatic halide which has the same number of halogen atoms but more ethylene linkages than the unsaturated halide undergoing treatment.

2,281,097
JOINT CONSTRUCTION
William A. Flumerfelt, Columbus, Ohio, assignor to The Columbus Auto Parts Company, Columbus, Ohio, a corporation of Ohio
Application October 3, 1940, Serial No. 359,580
4 Claims. (Cl. 287—90)



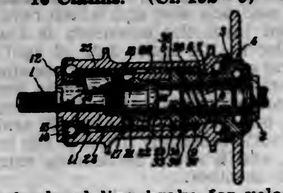
1. A joint construction including a hollow housing; a stud member having an enlarged portion projecting into said housing; a pair of similarly shaped elements in engagement with the enlarged portion of said stud member, the exterior lateral surfaces of said elements forming together a substantially ball-shaped configuration; said housing having an interior wall of partial spherical curvature; the spherical exterior surfaces of said elements being in bearing engagement with the curved interior wall of said housing; a seat element positioned beneath and in engagement with the curved exterior surfaces of said similarly shaped elements; each of said elements having interior flattened surfaces; and resilient means positioned within and engaging the flattened surfaces of both said elements and contacting said stud member for urging said elements into bearing engagement with the wall of said housing and said seat member.

2,281,098
CONNECTOR
Richard T. Hennessy, Indianapolis, Ind., assignor to Climax Machinery Company, Indianapolis, Ind., a corporation of Indiana
Application April 26, 1941, Serial No. 390,635
15 Claims. (Cl. 74—579)



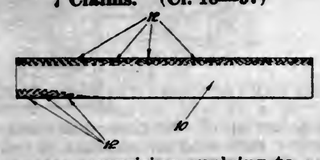
1. A connector for connecting a first member combination, frame means providing a window perforation formed in each of said members, a ball received in each of said perforations, the diameter of each of said balls being substantially identical with the diameter of the perforation in which it is received, a link formed with two spaced, paraxial, cylindrical holes, the diameters of said holes being less than the diameters of said balls, and means for pressing said link into contact with said balls, each of said holes receiving a portion of one of said balls.

2,281,099
BACKPEDALING BRAKE FOR VELOCIPEDES
Stanley B. Kurzina, Jr., Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application June 26, 1940, Serial No. 342,485
10 Claims. (Cl. 192—6)



1. In a backpedaling brake for velocipedes, a hub, a spiral brake member therein, a fixed anchor preventing rotation of the brake in a forward direction, and manually operable means for rotating the free end of the brake member in a forward direction including a non-rotatable screw shaft, an actuating sleeve threaded thereon, and means causing relative longitudinal movement between the screw shaft and sleeve.

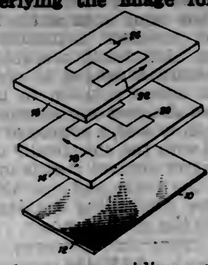
2,281,100
METHOD OF MANUFACTURING LIGHT POLARIZERS
Edwin H. Land, Boston, Mass., assignor to Polaroid Corporation, Dover, Del., a corporation of Delaware
Original application February 24, 1938, Serial No. 192,241. Divided and this application February 23, 1939, Serial No. 257,813
7 Claims. (Cl. 18—57)



1. A process comprising applying to a surface of a light-transmitting element of organic plastic material a material from the group consisting of the solvents and plasticizers for said element to soften said surface, applying to said softened surface a light-polarizing material in the form of minute needle-shaped light-polarizing particles having their polarizing axes coinciding with their needle axes, and orienting the polarizing axes of adjacent particles by pressing said particles into intimate contact with said softened surface, the said pressing of said particles acting to orient the polarizing axes thereof.

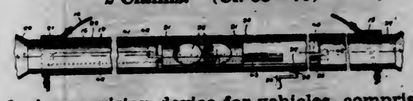
2,281,101
DICHROIC STEREOSCOPIC PRINT WITH REFLECTING BACKING
Edwin H. Land, Boston, Mass., assignor to Polaroid Corporation, Dover, Del., a corporation of Delaware
Application June 7, 1940, Serial No. 339,252
16 Claims. (Cl. 88—29)

1. In combination, a sheet of transparent material comprising dichroic material forming light-polarizing areas positioned to provide a left eye stereoscopic image, a second sheet of transparent material bonded to said first sheet and comprising dichroic material forming light-polarizing areas with their polarizing axes at right angles to the axes of the areas of said first sheet, the areas of said second sheet positioned to provide a right eye stereoscopic image substantially overlying the image formed in said



first sheet, and means providing a reflecting surface bonded to and facing the outer surface of one of said sheets.

2,281,102
REAR VISION DEVICE FOR VEHICLES
Willis L. Lowman, Newcastle, Ind.
Application June 24, 1940, Serial No. 342,148
2 Claims. (Cl. 88—70)



1. A rear vision device for vehicles, comprising an elongated tube adapted to be stationarily mounted so as to extend through each side wall of the vehicle, an inner and outer tube slidably supported within each end of said elongated tube, means comprising rack bars extending from the inner ends of said outer tubes for telescoping said inner and outer tubes whereby said tubes will be projected beyond each end of said elongated tube with said inner tube extending beyond said outer tube, means journalled in the wall of said elongated tube in mesh with said rack bars for moving the same, a reflector mounted on the projecting ends of said inner tubes, and a mirror carried by said elongated tube and suitably positioned in the field of vision of the vehicle driver for receiving an image from the reflector to be viewed by the driver.

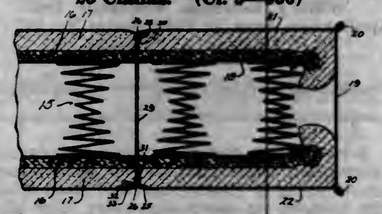
2,281,103
APPARATUS FOR PLACING EXPLOSIVES
Gordon C. MacDonald, Tulsa, Okla., assignor to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application November 3, 1939, Serial No. 302,757
5 Claims. (Cl. 102—4)



1. An apparatus for placing a charge of explosive in a well under positive control from the top of the well comprising an explosive contain-

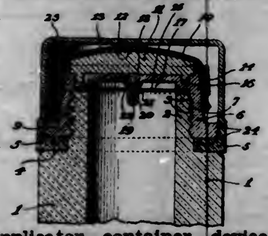
er of cross section such as to permit passage in a well and having an opening at one end of substantially the same area as the internal cross section of the container, a closure for the container opening, electrically operable latch means within the closure arranged to normally retain the closure in closed relation to the container, cable means constructed and arranged to suspend the container in a well, a source of electrical energy in circuit with the electrically operable latch means and circuit control means including leads extending up the cable and operable at the top of the well for controlling application of electrical energy to the latch means.

2,281,104
MATTRESS AND THE LIKE AND METHOD OF PRODUCING IT
Reinhold W. Marquardt, Milwaukee, Wis., assignor to The Marquardt Company, Milwaukee, Wis., a corporation of Wisconsin
Application December 30, 1937, Serial No. 182,424
25 Claims. (Cl. 5—356)



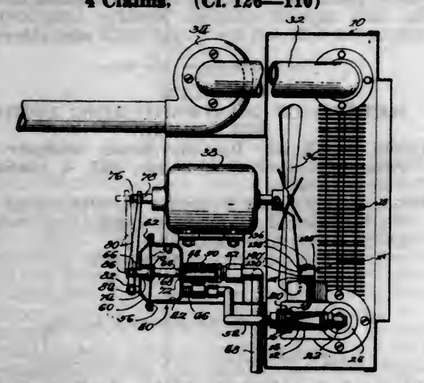
3. The quilting of cover plies upon a compressible body, including the process steps of stitching to the inner faces of the respective cover plies a spaced series of longitudinally folded straps and enfolded cords, anchoring multistrand quilting ties at spaced points through each of said straps and about the enfolded cord thereof in one of said cover plies, mounting said body upon a temporary retaining ply, superposing said one cover ply on said body, and passing the respective quilting ties through the body and said temporary retaining ply, whereby frictionally to anchor temporarily the projecting ends of said ties, inverting the assembled first cover ply, body, and temporary retaining ply to expose the projecting ends of said ties, stripping the retaining ply from said ends, and applying the second cover ply to said body while knotting each of said ties under tension to the straps of the second cover ply and the enfolded cord.

2,281,105
ABSORBENT SEALING CAP
Joaquin Montané Martí and Agustín Fitó Piñol, Buenos Aires, Argentina
Application March 29, 1941, Serial No. 385,932
In Argentina December 18, 1940
2 Claims. (Cl. 15—133)



1. An applicator container device wherein the container is provided with an externally threaded neck, said device including an internally threaded nozzle member for engaging the threaded neck of the container and having an end wall at the bottom of a recess formed in its outer end, said wall being provided on its outer face with a cavity providing a ball seat and also provided on its inner face with a frangible tubular extension whose bore communicates at one end with said ball seat and which bore is otherwise closed until the extension is fractured, a sealing disc at the inner side of said end wall and having a central opening whose edge portion engages said extension to hold the same therewith, a porous disc fitted in said recess and enclosing a ball located in said ball seat, an applicator fabric releasibly fitted to the nozzle over said disc, and a cover detachably connected to said nozzle member.

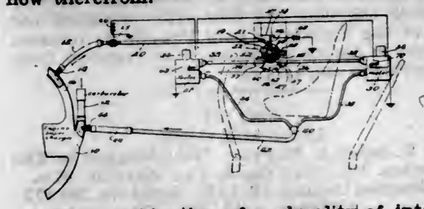
2,281,106
ROOM HEATER
Henry J. De N. McCollum, Evanston, Ill.
Application June 10, 1939, Serial No. 278,421
4 Claims. (Cl. 126—110)



1. In a heater of the class described, a radiator having inlet and outlet sides, a combustion chamber connected to the radiator inlet side, an exhaust pipe connected to the outlet side of the radiator, an air circulating means connected to the exhaust pipe to maintain said radiator and combustion chamber below atmospheric pressure, means to supply fuel to the combustion chamber under the influence of the air circulating means, a fan to blow air over the radiator, means to mount said fan for longitudinal movement under the reactive influence of air forced therefrom, and means to cut off the fuel supply whenever the fan stops, comprising a valve, means movable into one position to open the valve and into a second position to close the same, said movable means adapted to be actuated by the longitudinal movements of said fan.

2,281,107
HEATING SYSTEM
Henry J. De N. McCollum, Chicago, Ill.
Application February 3, 1941, Serial No. 377,182
8 Claims. (Cl. 237—2)

1. In a heating system for use in conjunction with an internal combustion engine receiving a compressed combustible mixture of fuel and air from a supercharger having an inlet and an outlet, the combination of an internal combustion heater, a conduit for supplying combustible mixture to said heater from said outlet, and a conduit for discharging the products of combustion from said heater into said inlet, whereby the differential pressure created by said supercharger will cause combustible mixture to flow to said heater, and the products of combustion to flow therefrom.



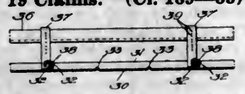
8. The combination of a plurality of internal combustion heaters, an electrical operating circuit for each of said heaters, a common conduit for supplying combustible mixture to all of said heaters, a plurality of parallel conduits connecting each of said heaters with said common conduit, a source of electrical current, a common electrical conductor for supplying current from said source to all of said heaters, a plurality of parallel electrical conductors for supplying current from said common conductor to each of said electrical operating circuits, a master switch for directly controlling the flow of current through said common conductor, a plurality of switches, one in each of said parallel conductors, means for preventing the flow of combustible mixture through said common conduit, means for opening said master switch incidental to preventing said flow, means for preventing the flow through one of said parallel conduits, and means for opening the switch in the corresponding parallel conductor incidental to preventing the flow of combustible mixture to the corresponding heater.

2,281,108
FASTENER AND ORNAMENTATION DEVICE
Guy H. Montmartin, New York, N. Y.
Application June 30, 1941, Serial No. 400,503
12 Claims. (Cl. 24—73)



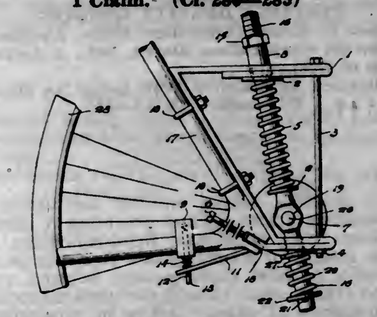
1. In a separable fastener device, a socket member and a complementary element for impaling engagement by said socket member, said socket member comprising an endless extensible-retractable means and means mounted thereon for engaging contact with said complementary element.

2,281,109
BUILDING CONSTRUCTION
Anders C. Olsen, Gwynedd, Pa.
Application August 14, 1939, Serial No. 289,987
19 Claims. (Cl. 189—85)



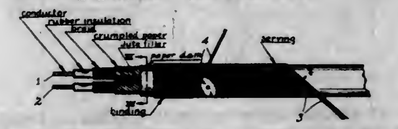
1. In an acoustical wall construction, the combination with a supporting structure of an ornamental wall facing supported therefrom comprising perforated membranes, said membranes comprising upturned edge flanges formed to interengage with upturned edge flanges of contiguous membranes and certain of said flanges having inwardly turned terminal flange portions, means for supporting the membranes side by side in substantially co-planar relationship to form an acoustical wall construction, said means comprising straps being supported from the supporting structure to support units as they are erected by the inwardly turned terminal flange portion and means demountably attached to some of the flanges of contiguous membranes by a resilient action and to the straps by a wedging action, whereby the membranes are adapted to be attached and detached in the acoustical wall construction.

2,281,110
BICYCLE AND THE LIKE VEHICLE
Harry Olof Olson, Chicago, Ill.
Application August 10, 1940, Serial No. 352,055
1 Claim. (Cl. 280—285)



A shock absorbing wheel mount for a bicycle frame, comprising a frame member, means for attaching said member to a wheelfork of said bicycle frame, said member including top and bottom portions, aligned openings through said top and bottom portions, a reciprocable rod extending through said openings, means connecting a wheel axle to said rod intermediate said top and bottom portions, a coil spring around said rod between said axle and said top portion, a washer slidable on said rod and bearing against the top of said spring, a sleeve slidable on said rod above said washer, said sleeve slidably extending through said opening in said top portion and bearing against the upper surface of said washer, the upper end of said rod being threaded, a nut threaded on the upper end of said rod and bearing against the upper end of said sleeve to adjust the tension of said spring while protecting said threaded end of said rod during reciprocation through said opening in said top portion.

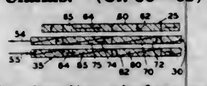
2,281,111
NONMETALLIC SHEATH CABLE
William C. Robinson, Sewickley, Pa., and Ralph W. E. Moore, Riverdale, N. Y., assignors to National Electric Products Corporation, a corporation of Delaware
Application September 23, 1939, Serial No. 296,286
2 Claims. (Cl. 174—116)



1. In non-metallic sheath cable constructed with an inner assembly consisting of a plurality of conductors and insulating packing and an exterior non-metallic insulating and protective sheath; a sheath composite of an inner sealing wrap of absorbent strands laid in a single layer

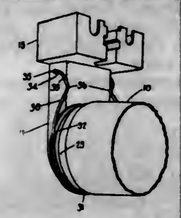
helical serving, and an outer binder and protector wrap of absorbent strands greater in size than the strands of the sealing wrap laid as a single layer helical serving with a lesser number of turns than the sealing wrap in a helix opposite in sense to that in which the turns of the sealing wrap are laid and with a lesser lead, the said binder and protector wrap by its lesser lead forming with the longitudinal axis of the cable an angle greater than that formed therewith by the turns of the sealing wrap, the said two wraps being saturated and bonded together by a heavy viscous and adhesive insulating saturant.

2,281,112
VARIABLE DENSITY WINDOW
William H. Ryan, Cambridge, Mass., assignor to Polaroid Corporation, Dover, Del., a corporation of Delaware
Application November 6, 1940, Serial No. 364,522
7 Claims. (Cl. 88—65)
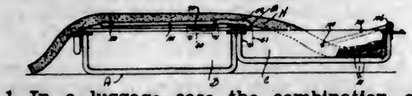


1. A variable density window comprising, in combination, frame means providing a window aperture, three sheet-like, light-polarizing elements, means for mounting said elements in substantially parallel superimposed relation within said frame, each of said elements comprising a multiplicity of parallel strips of substantially uniform width comprising light-polarizing material, the transmission axes of adjacent strips being relatively perpendicular, said elements being positioned with the component strips thereof relatively parallel, the polarizing properties of the component strips of one of said elements being substantially uniform, the polarizing properties of each of the other two of said elements varying uniformly across the width thereof, said two elements being so positioned with respect to each other that the direction of variation of the polarizing properties in the component strips of one of said elements is opposite to said direction of variation in the other said element, two of said elements being mounted for parallel, linear movement within said frame, and means for moving said movably mounted elements.

2,281,113
TUBULAR LAMP RETAINING DEVICE
Selden Bradley Sanford, Yonkers, N. Y., assignor to Otis Elevator Company, New York, N. Y., a corporation of New Jersey
Application May 21, 1941, Serial No. 394,425
3 Claims. (Cl. 173—328)



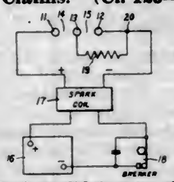
1. A tubular lamp support having a bracket provided with a socket for receiving the end of the lamp and having a spring retaining clip pivotally mounted on the bracket extending around the end of the lamp, characterized in that the clip has camming portions extending partially in front of and over the face of the bracket from each side thereof for holding the clip in lamp retaining position, said camming portions upon the clip being swung backwardly, automatically riding up onto the sides of the bracket thereby releasing the clip and thereafter engaging the sides of the bracket to hold the clip in released position to enable the lamp to be removed from or inserted in said socket.

2,281,114
LUGGAGE CASE
Hugo R. Schwab, Mayville, Wis., assignor to The Peerless Traveling Goods Co., Mayville, Wis.
Application October 19, 1939, Serial No. 300,273
5 Claims. (Cl. 190—41)



1. In a luggage case the combination of a cover section, a body section, garment hanger means at an end wall of at least one of said sections, a frame on said sections including pivoted side arms and a fold maintaining bar adapted to be swung to a fold maintaining position to a point adjacent the wall opposite that wall which supports the garment hangers, said side arms being pivoted on an axis transverse to the section on which mounted so that the bar thereof may be swung to a position entirely out of obstructing relation with the compartment of said case section, and a second fold frame independently pivoted on the case with respect to the first frame and adjacent that wall which is opposite the wall on which the garment hanger is connected and having a fold bar at its free end adapted to assume a position adjacent to the garment hanger wall of the case section when in garment fold maintaining position.

2,281,115
ELECTRIC CIRCUITS FOR PRODUCING SPARKS
Otto C. Semonsen, Bellerose, N. Y.
Application September 6, 1940, Serial No. 355,619
16 Claims. (Cl. 123—148)



1. A method of modifying an electric circuit for producing sparks, whereby a plurality of sparks in series can be produced therein with a single interruption of the electric current, which consists of interposing an intermediate electrode between and spaced from the terminal electrodes, thereby forming in the said circuit a plurality of spark gaps in series, and providing means for bringing the intermediate electrode into a negative condition with respect to the positive side of the circuit.

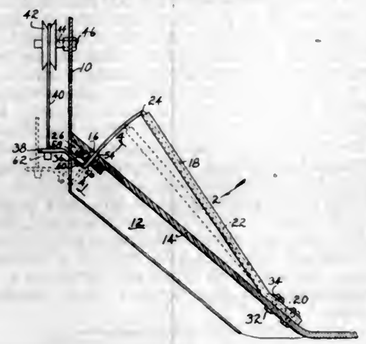
2,281,116
IMPULSE TRANSMITTING DEVICE
Hans Sengebusch, Villa Park, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application July 31, 1939, Serial No. 287,534
10 Claims. (Cl. 177—330)

1. A unitary impulse transmitting device for electric circuits comprising manually operable means operative to register a plurality of digits, mechanism operative to store a number corresponding to the sum of the digits registered, an indicator operative to indicate the number stored in said mechanism, impulse transmitting means



operative to transmit a single series of substantially evenly spaced-apart impulses corresponding in number to the number stored in said mechanism, and manually operable means for operating said impulse transmitting means.

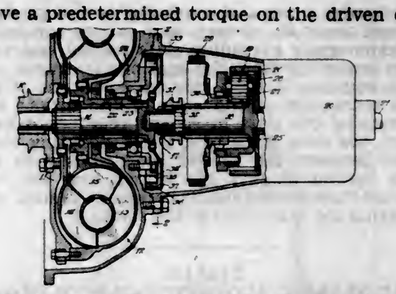
2,281,117
ACCELERATOR PEDAL
Joseph F. Sladky, Racine, Wis., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland
Application February 15, 1940, Serial No. 319,041
4 Claims. (Cl. 74—513)



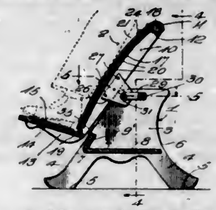
1. In an automobile having a floor board, an accelerator pedal having a continuous flexible member fixed at one end to said floor board, a deformable sleeve covering a portion of said flexible member, another portion of said flexible member extending through said floor board and arranged to be connected to throttle operating mechanism.

2,281,118
ROTOR BRAKE
Richard L. Smirl, Bellwood, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application November 22, 1940, Serial No. 366,547
7 Claims. (Cl. 192—12)

1. A hydro-dynamic torque-transmitting device comprising a driving element, a driven element hydraulically associated with the driving element, and a brake for the driven element, said brake being normally biased to engaged position to arrest the rotation of the driven element and arranged to allow rotation of the driven element above a predetermined torque on the driven element impressed thereon by the driving element through its hydraulic association therewith.

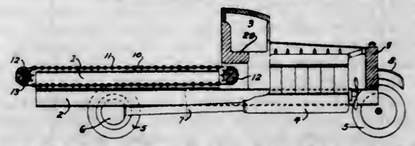


2,281,119
FOOT AND LEG REST
Glenn R. Smith, Santa Barbara, Calif., assignor of one-half to Nellie R. Smith, Santa Barbara, Calif.
Application January 29, 1940, Serial No. 316,198
14 Claims. (Cl. 155—169)



11. A foot and leg rest, comprising: a base having a substantially horizontal supporting surface and another supporting surface having a relatively steeply inclined portion extending forwardly downward from the front end of said horizontal surface; a foot and leg supporting platform transversely hinged to said base intermediate the ends of said platform and adjacent the front end of said horizontal surface, and adapted to be supported in a horizontal position by said horizontal surface and in an inclined position by said inclined surface; and forward and rearward floor engaging means on said base disposed to prevent overbalancing of said base forwardly or backwardly respectively by the weight of a user sustained by said platform.

2,281,120
FLOOR CONVEYER FOR TRUCKS
Helen Stargardt, Detroit, Mich.
Application July 29, 1940, Serial No. 348,218
1 Claim. (Cl. 214—83)



In a floor conveyer for trucks, a frame, a drive shaft, a driven shaft, said shafts being located at opposite ends of the frame, drums carried by said shafts and turning with the shafts, said drums being of appreciably less length than the shafts carrying the same and formed with longitudinally extending radial ribs spaced from each other circumferentially of the drum, and an endless carrier extending longitudinally in the frame

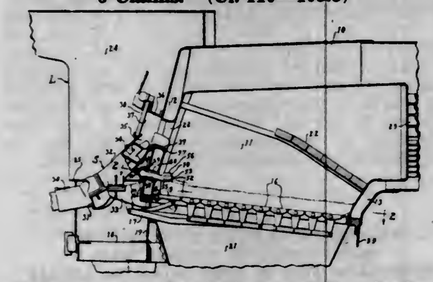
and having upper and lower flights and portions trained about the drums, said carrier consisting of transversely extending slats having end portions projecting from the ends of the drums, and rings engaged through side edge portions of the slats outwardly of the ends of the drums and connecting the slats in spaced relation to each other, the slats being of a width adapting them to fit between the ribs of the drums with the slats resting against the drums and the ribs passing through the spaces between the slats and engaging the side edges of the slats.

2,281,121
LOAD BEARING ACOUSTIC BUILDING BLOCK
Merton T. Straight, Des Moines, Iowa
Application August 25, 1939, Serial No. 291,887
5 Claims. (Cl. 72—41)



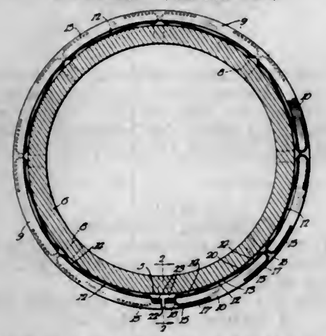
1. An improved load-bearing building block formed of plastic material having two of its side faces roughened to form an irregular and uneven surface, a cavity extending longitudinally through said block opposite each of said roughened surfaces, and a partition impervious to the passage of sound vibrations between said cavities formed integrally with said body, said roughened surfaces being provided with inwardly projecting passages having their inner ends connected with said cavities.

2,281,122
LOCOMOTIVE STOKER
Charles J. Surdy, Erie, Pa., assignor to The Standard Stoker, Incorporated, a corporation of Delaware
Application August 18, 1939, Serial No. 290,832
6 Claims. (Cl. 110—105.5)



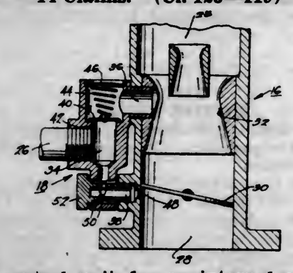
4. In a locomotive firebox, a hollow backwall provided with a firing opening therein and grates forming the bottom of said firebox disposed below the lower marginal end of said opening, a stoker conveyor adapted to feed fuel through said firing opening into said firebox so as to form a mound of fuel on said grate at the rearward portion of said firebox beneath said firing opening, a pressure fluid jet provided with a front face disposed within the rearward portion of said firebox beneath said firing opening and above the level of said grates, said grates constituting the sole means for supporting the fuel dropping from said firing opening, the front face of said jet head being provided with a plurality of jet apertures directed forwardly and laterally across said firebox, and means for supplying fluid under pressure to said jet head for issuance from said jet apertures for projecting fuel from the mound of fuel on said grate to all parts of the firebox, the vertical distance from the level of said grates to said jet apertures being less than the vertical distance from said jet apertures to the lower marginal edge of said firing opening.

2,281,123
PISTON RING
Macy O. Teetor, Newcastle, Ind., assignor to The Perfect Circle Company, Hagerstown, Ind., a corporation of Indiana
Application November 20, 1939, Serial No. 305,213
5 Claims. (Cl. 309—44)



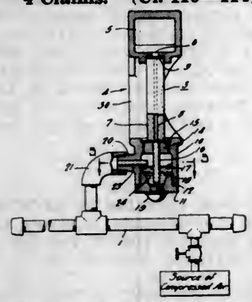
2. A piston ring structure adapted for use in a ring groove of a piston of an internal combustion engine comprising a pair of flat, thin, split rails having parallel faces adapted to be disposed along the opposite sides of a ring groove, and a plurality of independent spacer-expander elements of spring ribbon, each element having a body portion and end portions, the middle of the body portion of each element being adapted to engage the bottom of the ring groove and the ends of the body portions being adapted to engage the inner peripheries of the rails to expand the rails against the cylinder wall, and the end portions of each element being arranged to project between the rails and extend a substantial distance toward each other and being of a width corresponding to the desired axial spacing of the rails.

2,281,124
INTERNAL COMBUSTION ENGINE
Brayton W. Westcott, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application February 7, 1940, Serial No. 317,634
14 Claims. (Cl. 123—119)



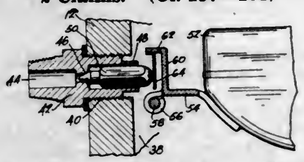
6. A control unit for an internal combustion engine having a throttle controlled induction passage comprising a chamber, an inlet to said chamber adapted to be connected to the engine crankcase, a pair of outlets from said chamber adapted to be respectively connected to the induction passage on opposite sides of the throttle, and a pressure operated valve for varying the effective area of one of said outlets.

2,281,125
LEAK INDICATOR
Gustav Wiemer, Los Angeles, Calif.
Application July 27, 1940, Serial No. 347,895
4 Claims. (Cl. 116—114)



1. In a leak detector for a system of connected fluid passages, means forming an upper closed liquid chamber, means forming a downwardly directed transparent conduit communicating with the chamber and having a cross section for the downward flow of liquid that is much smaller than that of the chamber, means forming a lower passageway adapted to be connected to the system under test, and in communication with the lower end of the conduit, and a liquid piston adapted to operate partly in the conduit and partly in the upper chamber.

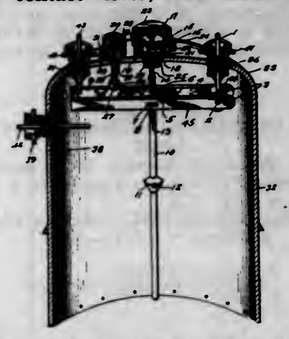
2,281,126
FLOAT VALVE FOR CARBURETORS
Samuel R. Willits, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application November 29, 1939, Serial No. 306,616
2 Claims. (Cl. 137—104)



1. In a carburetor for an internal combustion engine, a fuel chamber having a fuel inlet, a valve in said inlet, a substantially non-resilient float hanger in the chamber, a pivotal mounting for said hanger, a float attached directly to the hanger, said hanger having a rigid arm, and a leaf spring attached to the arm adjacent the free end thereof, the free edge of said spring being adjacent the pivotal mounting of the hanger, and said valve being engaged by a portion of said spring adjacent said free edge of the latter.

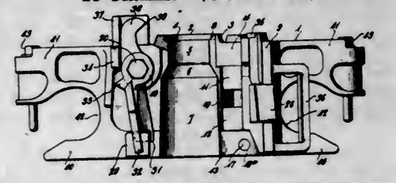
2,281,127
FLOAT OPERATED SWITCH
Jacob Ottis Williams, San Bernardino, Calif.
Application August 29, 1939, Serial No. 292,438
1 Claim. (Cl. 200—84)

In a device of the character described, a float operated switch including a housing, conductor pins insulated from and projecting into said housing, an enlarged head on one of said pins, a conducting contact lever pivotally secured at one end portion to said head, a block pivotally secured to an intermediate portion of said conducting contact lever, said block having a



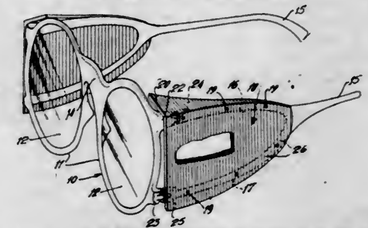
threaded vertical opening therethrough, a threaded push rod adjustably mounted in said threaded block opening for swinging said conductor lever to close a circuit, and a wrench secured to said push rod for rotating the same into adjusted position in said threaded opening in said block.

2,281,128
ELEVATOR
William Webster Wilson, Huntington Park, Calif.
Application May 15, 1940, Serial No. 335,364
18 Claims. (Cl. 294—91)



1. A pipe elevator comprising a body and a door, a pipe-supporting seat on the body and door below the upper surface thereof, the body having inclined faces forward of the center line of the body, and inclining upwardly and forwardly of the pipe-supporting seat.

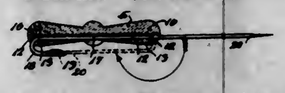
2,281,129
OPHTHALMIC MOUNTING
Otto E. Wolff, Arlington, Mass., assignor to Polaroid Corporation, Dover, Del., a corporation of Delaware
Application November 9, 1939, Serial No. 303,549
8 Claims. (Cl. 2—13)



1. An ophthalmic mounting comprising a spectacle frame having bows, said bows having affixed thereto and extending a substantial dis-

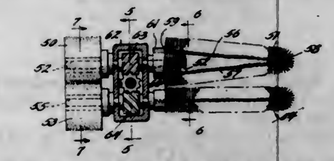
tance along the length thereof means providing a multiplicity of substantially vertical, spaced, thin, light-blocking elements positioned to substantially block light propagated from the rear of said mounting toward the front thereof and spaced from each other to permit the passage of light propagated in a direction substantially perpendicular to a plane defined by the bow and the light-blocking elements affixed thereto.

2,281,130
METHOD OF MAKING BROOCHES AND THE LIKE
Edward M. Woodruff, Auburn, N. Y., assignor to The Woodruff Company, Auburn, N. Y., a corporation of New York
Application July 28, 1941, Serial No. 404,404
8 Claims. (Cl. 63—20)



1. The method of making brooches and the like ornaments, which comprises forming an interrupted groove in the rear face of the body of the brooch, piercing the groove-interrupting portion of the body in the plane of the groove with the central axis of the pierced opening extending generally parallel to the groove, inserting into the pierced opening aforesaid an elongated resilient fastener member having a catch portion provided at one end thereof to project rearwardly from the body at one end of the groove and a pointed pin portion at its other end of sufficient length to project beyond the pierced opening when inserted therethrough, and thereafter reversely bending the pin portion outwardly of the groove at the opposite end of the latter and towards the catch portion of the fastener member to dispose the pointed end in a position to releasably engage the catch in the manner of a safety pin.

2,281,131
CLEANING APPARATUS
Parvin Wright, Seattle, Wash., assignor of fifty-one per cent to Ray Wellington Bauer, Seattle, Wash.
Application November 24, 1941, Serial No. 420,285
5 Claims. (Cl. 15—36)



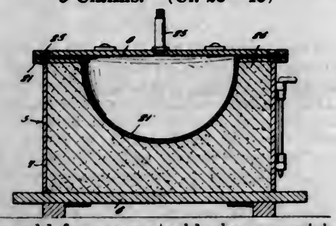
1. A cleaning device for the inside of a shoe, comprising a pair of shafts disposed substantially in a common plane, heel-cleaning elements mounted on two adjacent shaft ends, toe-cleaning elements mounted on the other adjacent shaft ends, and a third shaft disposed between said pair of shafts and having its axis substantially perpendicular to the plane thereof, said third shaft disposed between the heel-cleaning and toe-cleaning elements and having connections for imparting opposite directional rotation to said pair of shafts, the heel-cleaning elements separated from the toe-cleaning elements by a distance which is less than the difference between the overall length of the cleaning elements and the inside length of the shoe.

2,281,132
METHOD OF WIRE DRAWING
Leonard A. Young, Detroit, Mich.
Application September 9, 1939, Serial No. 294,115
6 Claims. (Cl. 148—12)



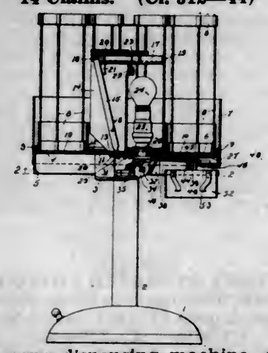
1. In a process of drawing carbon steel wire having a carbon content of .50% to .70%, the steps of electrically heating a continuously moving wire to a predetermined temperature by two stationary electric contacts, and thereupon passing the wire through a drawing die, said die being disposed at such a predetermined distance beyond the second contact that a portion of the wire heated between said contacts enters said drawing die at a temperature of 350° to 450° F.

2,281,133
MOLD FOR CONCRETE BLOCKS
Tyler D. Abercrombie, Ashburn, Ga.
Application March 4, 1940, Serial No. 322,202
5 Claims. (Cl. 25—45)



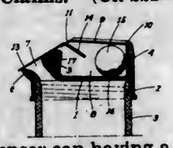
1. A mold for concrete blocks comprising bottom and side walls, a lid supported on the side walls, said lid embodying upper and lower rigid plates, the lower plate having an opening with its edges spaced inwardly from the side walls, a flexible sheet of material having its edges clamped between the plates to form a diaphragm movable through the opening and means for supplying air under pressure between the upper plate and the diaphragm to expand the same inwardly of the mold.

2,281,134
ICE CREAM CONE DISPENSER
James Balton, Baltimore, Md., assignor to Maryland Baking Company, Inc., Baltimore, Md., a corporation of Maryland
Application June 3, 1940, Serial No. 338,636
14 Claims. (Cl. 312—44)



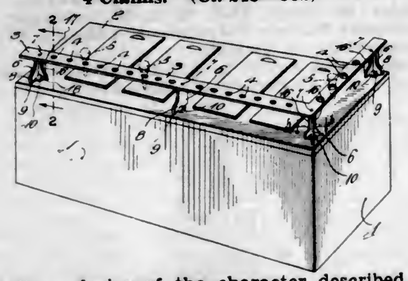
1. In a cone dispensing machine, a platform having a dispensing opening, a gate for closing said opening, a magazine for cone stacks rotatably mounted on said platform and having a plurality of discharge openings, cone stack guides over each discharge opening, a cone dispensing mechanism, means for opening said gate and actuating said dispensing mechanism to dispense a cone through said dispensing opening, and means to lock said magazine against being turned while said gate opening and cone dispensing means is in operation.

2,281,135
DISPENSER CAP
John D. Becker, Chowchilla, Calif.
Application June 21, 1940, Serial No. 341,646
2 Claims. (Cl. 221—13)



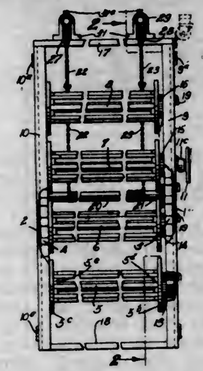
1. In a dispenser cap having a pouring opening therethrough, a flap normally closing said opening, the cap having an upwardly opening elongated groove therein extending diametrally from adjacent said opening, a closure plate on the cap and enclosing the groove adjacent the top thereof, said plate having a transverse slot therein adjacent said opening, a tongue on said flap projecting through the slot into the groove transversely of the length thereof, and a ball disposed in the groove between said tongue and the end of the groove opposite said pouring opening; the flap, tongue, and closure plate being removable from the cap as a unit.

2,281,136
ICE CREAM CONE HOLDER
Clifton Beverlin, Sedro Wooley, Wash.
Application April 24, 1941, Serial No. 390,169
4 Claims. (Cl. 248—362)



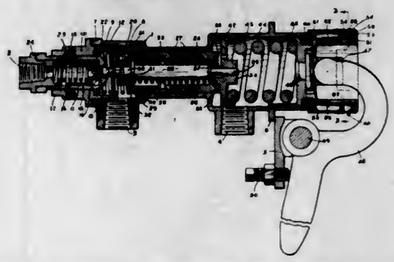
1. In a device of the character described, a support comprising a body disposed vertically and having edge faces and side faces, said body having a recess leading from its lower end and tapered upwardly and forming the support with feet spaced from each other by the recess, walls of the recess being each in the form of a reverse curve and having their upper ends spaced from each other to provide a throat at the upper end of the recess, and a vacuum cup in the recess having a neck fitting snugly in the throat of the recess and firmly secured to the body and projecting from opposite sides thereof, the cup having walls normally spaced from walls of the recess and conforming to the contour thereof for close fitting engagement therewith when the cup is expanded by downward pressure and suction created in the cup to hold the support in place on a counter.

2,281,137
BROADLOOM EXHIBITOR
Victor Borevitz, San Diego, Calif.
Application June 10, 1941, Serial No. 397,397
10 Claims. (Cl. 242—55.3)



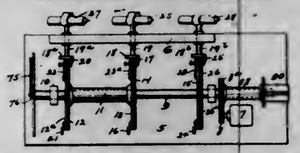
1. In a broadloom exhibitor of the class described, the combination of spaced spool supporting frame members provided with open inwardly and downwardly extending slotted bearing portions at their edges, broadloom supporting spools having shaft bearing portions positioned in said slotted bearing portions, said spool supporting frame members having rows of openings therein parallel with said slotted bearing portions, a spur gear supported on each of said broadloom supporting spools near one end thereof and a handle provided with a pinion gear revolubly positioned in one of said openings in cooperative relation with one of said spur gears.

2,281,138
HIGH PRESSURE REGULATING CONTROL VALVE
Niels A. Christensen, South Euclid, Ohio
Application March 27, 1941, Serial No. 385,497
13 Claims. (Cl. 303—54)



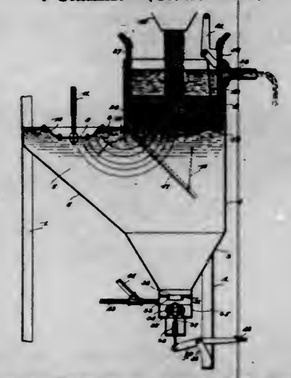
1. A pressure regulating and control valve comprising a casing having an abutment thereon and inter-dependent inlet and outlet valves therein, a metering spring in the casing through which said valves are operated, an operator operated plunger in said casing for said spring having an externally threaded axial extension projecting beyond the end of the casing, said extension having a plurality of circumferentially spaced longitudinally extending grooves, a pressure regulating collar threaded upon said extension of adjustability relative to said abutment, and a detent on said collar engageable with any one of said grooves to releasably retain said collar in adjusted positions.

2,281,139
TRAFFIC SIGNAL
Leroy A. Clark, Miami, Fla.
Application April 24, 1941, Serial No. 390,149
10 Claims. (Cl. 200—32)



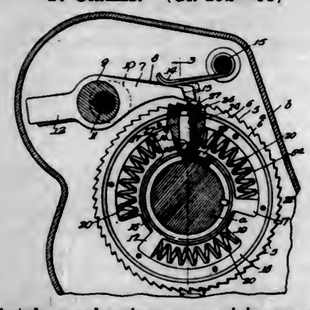
1. In a traffic control mechanism, the combination with a double throw master switch and a pair of auxiliary double throw switches, of a motor, a first rotative part driven by said motor, a second rotative part mounted to turn with but adjustable upon the first rotative part, means for holding said parts in locked position and in varying positions of circumferential adjustment with respect to each other, an actuating member upon the said first rotative part for throwing the master switch in one direction, an actuating member upon said second rotative part for throwing the master switch in the other direction, actuating means carried wholly by the first rotative part arranged to engage and move one of the auxiliary switches first in one direction and then in the other in the rotation of said part, and actuating means carried wholly by the second rotative part for moving the other auxiliary switch first in one direction and then in the other in the rotation of said second rotative part.

2,281,140
APPARATUS FOR DISSOLVING ROCK SALT
Thomas F. Courthope, Geneseo, Stanley Martin, Retsof, and Robert G. Sickly, Geneseo, N. Y., assignors to International Salt Company, Retsof, N. Y., a corporation of New Jersey
Application May 5, 1941, Serial No. 392,016
7 Claims. (Cl. 23—272)



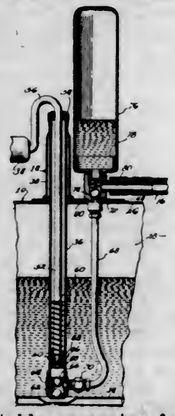
2. A salt dissolving apparatus including a material-receiving chamber and a settling chamber therebeneath, a material supporting screen in the material-receiving chamber above the settling chamber, means for introducing water above the material-supporting screen, a brine outlet near the top of the material-receiving chamber, means at the bottom of the settling chamber permitting removal of settled material therefrom, a water pulsating chamber offset horizontally from the settling chamber and communicating with the upper part of the settling chamber at a point above the bottom thereof, and water pulsating means located in the pulsating chamber and acting to effect a pulsating movement of the water in the upper part of the settling chamber upwardly through said screen and body of material.

2,281,141
CLUTCH MECHANISM
Jasper F. Cullin, Detroit, Mich., assignor to two-thirds to Lou Mervis, Lock Haven, Pa.
Application April 21, 1941, Serial No. 389,583
17 Claims. (Cl. 192—63)



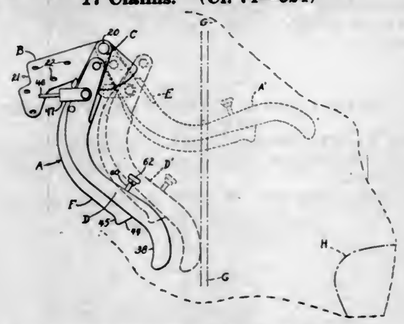
1. Clutch mechanism comprising a wheel, an inner member, an intermediate member, said wheel and members being connected for relative rotation, resilient driving means between said members, a locking element movably mounted on the intermediate member for driving the intermediate member, from the wheel and responsive to torque from the wheel for uncoupling the wheel and intermediate member, and means on the wheel for holding the element uncoupled from the wheel.

2,281,142
PORTABLE PUMPING APPARATUS
Ernest W. Davis, Oak Park, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application August 9, 1939, Serial No. 289,143
3 Claims. (Cl. 299—97)



3. In a portable apparatus for supplying liquid under pressure, the combination of an elongated curved closed container having a side shaped to conform generally to the contour of the hips of a person carrying it, and when filled with a liquid having a center of gravity located close to said side, a strap secured to the opposite ends of said container and adapted to pass over the shoulder of the person carrying the apparatus, a vertical pump cylinder secured in said container near one of its ends, a piston, a piston rod extending through the top of said cylinder, a horizontally extending handle at the extremity of said piston rod, a pressure bell located adjacent the upper end of said pump cylinder and extending upwardly from the top of said container, and a discharge conduit for said pump, a portion of said discharge conduit being in communication with said pressure bell.

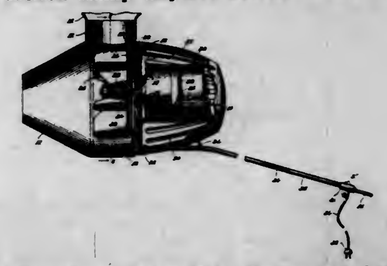
2,281,143
JOINTED HAND BRAKE LEVER
Dorman B. Dickerson, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application December 29, 1939, Serial No. 311,550
17 Claims. (Cl. 74—524)



1. In an automotive vehicle braking system, a manually operable brake lever at the driver's station in the vehicle pivotally connected to the system and being supported at its upper end for rearward movement to a latching and braking position, said lever including a plurality of sections one of which is a handle section depending downwardly from an upper section, and means for disconnecting the handle section from operative cooperation with said upper section when the brake lever is in a latched position without detaching the sections and for enabling forward swinging movement of said handle section below said upper section and toward the front of the vehicle to provide more clearance for the egress and ingress of the driver with respect to said driver's station, and latching means, effective only when said sections are in predetermined angular relation, for connecting said sections together for movement together as a single brake lever, said disconnecting and latching means including a lost motion connection between said sections providing for limited predetermined swinging movement of the handle section relative to the upper section when the sections are disconnected.

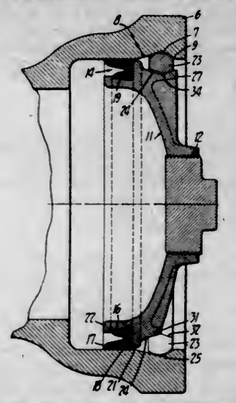
2,281,144
ELECTRIC VACUUM FLUE CLEANER
Ernest E. Dillon, Indianapolis, Ind.
Application March 18, 1940, Serial No. 324,683
1 Claim. (Cl. 230—117)

A boiler flue cleaner comprising, a cylindrical housing having an inlet and an outlet and being adapted to be applied to a boiler flue, an inturned rear flange at the rear end of the housing, a disk rear wall for the housing secured to the flange, a suction fan mounted eccentrically in the housing, an electric motor outside the rear wall having its shaft extending through a central opening in the rear wall and connected to the fan, a concave bottom wall integral with said rear wall conforming to the contour of the bottom of the motor and supporting the motor on the rear wall, an end wall closing the outer end of the concave bottom wall forming a stop to prevent outward endwise shifting of the motor, an arched clamp disposed astride of the motor



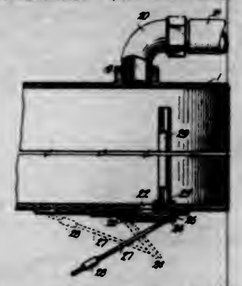
and secured at the ends to the concave bottom wall, a slotted cup secured at its open end to said rear wall and forming a ventilating guard enclosing the motor, and an asbestos sheet clamped at the peripheral edge portion between said inturned flange and said rear wall preventing access of heat from the housing to the motor, said sheet being provided with a central opening through which the motor shaft is engaged.

2,281,145
PIPE PLUG
Harold Stewart Duey, Los Angeles, Calif.
Application November 28, 1939, Serial No. 306,512
3 Claims. (Cl. 220—55)



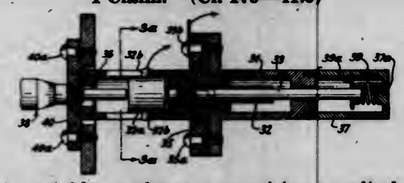
2. A plug for insertion in an internally grooved bell on a pipe to close the pipe in conjunction with a sealing resilient member carried by the plug, said plug comprising a circular head member adapted to be inserted in said bell adjacent said groove, said head member having a portion of its peripheral surface recessed cooperatively adjacent said groove when said member is in said bell, and a plurality of elongated arcuately formed segmental locking members, each member having an outer arcuate face thereon adapted to engage and fit in said bell groove and having a plurality of flat angular faces on its inner side and adapted, upon a sliding movement of said segment between said head member and said grooved bell, to lock the head member in the bell.

2,281,146
LIQUID LIFTING DEVICE
Hubert M. Fayman, Kansas City, Mo.
Application March 8, 1941, Serial No. 382,408
4 Claims. (Cl. 103—236)



1. A vacuum device for lifting liquid from a reservoir below the level of the device adapted to be used with a vacuum source such as the intake manifold of an internal combustion engine, including in combination a liquid receptacle, a connection near its top communicating with a vacuum source, a liquid supply line connected near the top of the receptacle, a discharge valve in the bottom of the receptacle, an air inlet standpipe mounted in the discharge valve opening, a float in the receptacle and a vacuum relief valve coacting with the float to release to the atmosphere the connection to the vacuum source and open the discharge valve and air inlet standpipe.

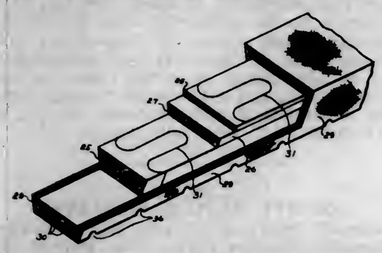
2,281,147
VARIABLE CONDENSER
Ralph E. Franklin and Earle Dayton Thorne, Patchogue, N. Y., assignors to Radio Corporation of America, a corporation of Delaware
Application June 28, 1939, Serial No. 281,642
1 Claim. (Cl. 175—41.5)



A variable condenser comprising a cylindrical slotted guide member, an insulating member secured to said slotted guide member, a fixed electrode secured to said insulating member, an insulating rod supported by said fixed electrode, a movable electrode secured to said insulating rod, one end of said movable electrode having guide pins to slide in the slot of said slotted guide member, and means to vary the condenser capacity by movement of said movable electrode within said fixed electrode.

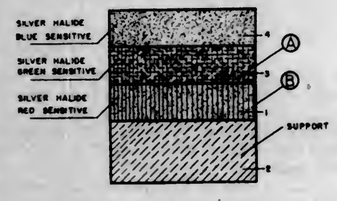
2,281,148
WRAPPED BELT
Abraham L. Freedlander, Dayton, Ohio, assignor to The Dayton Rubber Mfg. Company, Dayton, Ohio, a corporation of Ohio
Application August 25, 1939, Serial No. 291,919
3 Claims. (Cl. 74—233)

1. In a belt, a plurality of sections comprising the body of the belt, one of said sections being a compression section of rubber composition reinforced with fine textile fibres which are disposed substantially parallel and transversely of the longitudinal axis of said belt, a neutral axis section including a plurality of parallel laid cords extending longitudinally of said belt and a wrapper completely encircling said belt and provided



with spaced grooves extending at right angles to the side walls of the belt and molded on the inner side thereof, the depth of said grooves being less than the depth of the underside thickness of the wrapper.

2,281,149
COLOR PHOTOGRAPHIC MULTILAYER MATERIAL
Bela Gaspar, Brussels-Forest, Belgium, assignor to Chromogen, Incorporated, a corporation of Nevada
Application July 12, 1939, Serial No. 284,104
In Germany July 12, 1938
3 Claims. (Cl. 95—2)

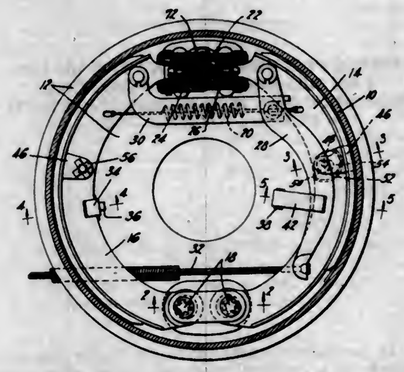


1. A light-sensitive exposure material for color photographic purposes comprising three light-sensitive silver halide emulsion layers sensitized predominantly to blue, green and red light respectively and arranged the one behind the other, a yellow azo dye in the layer predominantly sensitized to green light and a magenta azo dye in the layer predominantly sensitized to red light, both the yellow dye and the magenta dye corresponding to the general formula

$$R_1—N=N—R_2—R_3—N=N—R_4$$

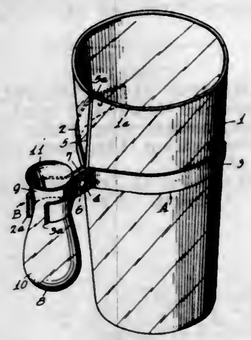
in which R_1, R_2, R_3, R_4 are aromatic radicals, at least one of the said radicals containing an acid substituent and at least one of said radicals containing a substituent selected from the group consisting of basic nitrogen substituents and phenolic hydroxy groups, but not more than one of the radicals R_1, R_2, R_3, R_4 containing simultaneously a sulphonic acid substituent and a phenolic hydroxy group, and in which the direct linkage between the radicals R_2 and R_3 may be replaced by one of the groups —CH=CH— and —NH—CO—NH—.

2,281,150
BRAKE
Rudolph A. Goepfrich, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application August 17, 1939, Serial No. 290,547
6 Claims. (Cl. 188—79.5)



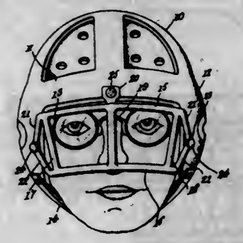
1. A brake having, for use in combination with a brake drum, a shoe having movably mounted thereon a member shifted by said drum when the brake is applied after the shoe has worn, a member rotatably mounted on the shoe and which has eccentrically arranged means pivotally connecting it to the first member, a positioning device mounted on the rotatable member, and a positioning device engaged by the first device when the brake is released.

2,281,151
COMBINED HOOK AND CLASP FASTENER
Earl C. Granger, Alameda, Calif.
Application December 13, 1939, Serial No. 309,036
1 Claim. (Cl. 24—84)



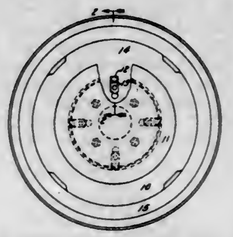
A double clamp for securing an ash tray to a cocktail glass and comprising a pair of spring arms, each arm being in the shape of double arcuate portions, the arms lying in the same plane with the concave portions of one arm facing the concave portions of the other, and a supporting hook secured to the two arms at the junctures of the double arcuate portions to define two clamps, said hook having its shank extending above the plane of the two arms and having its hooked end overlying one of the clamps.

2,281,152
PROTECTIVE DEVICE
Thomas Park Hollingsworth, Lincoln, Kans.
Application November 29, 1940, Serial No. 367,841
3 Claims. (Cl. 2—9)



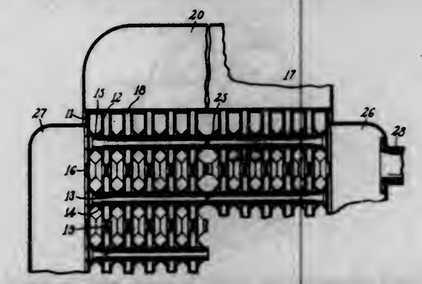
1. In combination with a head gear having a frontal member and ear lobes adapted to be worn by players with eyeglasses, a protective frame comprising upper and lower bars, said bars at the ends of said upper and lower bars forming a frame substantially into a rectangle, a middle bar extending between said upper and lower bars and curved vertically, means for suspending the middle portion of the top bar from the frontal member of the head gear, an open triangular frame at each end of said rectangular frame having the divergent ends of its legs joined to the frame at the intersection of the upper and lower bars with the side bars, and fastening members on said triangular frames for attachment to the ear lobes.

2,281,153
VEHICLE WHEEL
Harry J. Horn, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application August 16, 1941, Serial No. 407,102
6 Claims. (Cl. 301—37)



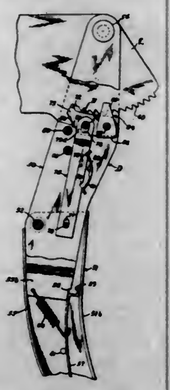
1. In combination, a wheel member, a cover member, and a spring clip having an inboard end and an outboard end, said clip comprising a strip of resilient metal formed to provide an engaging portion near the outboard end thereof, said strip being of gradually decreasing width from near the outboard end to near the inboard end of said engaging portion, the inboard end of said clip being rigidly connected to one of said members, the outboard end of said clip resiliently engaging the other of said members, said last mentioned member having an annular edge portion contacting the lateral edges of the engaging portion of the clip in the region of the narrowest portion thereof, whereby upon relative movement of the members away from each other the lateral edges of the clip bite into the annular edge of the last mentioned member.

2,281,154
RADIATOR
Joseph Hromadko, Hamden, Conn.
Application August 28, 1940, Serial No. 354,561
2 Claims. (Cl. 257—241)



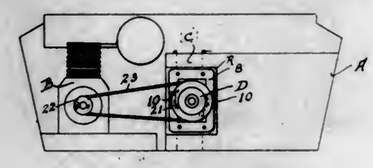
1. A radiator comprising a plurality of spaced parallel tubular members forming fluid passages and having spaced plates thereon, headers at opposite ends of said tubular members, said plates being in heat transfer relation with said members and having integrally formed abutting projections thereon to space apart adjacent ones of said plates and form water passages and open-ended air passages therebetween, said water passages being distinct from the fluid passages formed by the tubes, and additional header members at opposite ends of said water passages whereby two separate liquids may be passed through the radiator in addition to the passage of air through the air passages.

2,281,155
NONDRAG BRAKE LEVER
Herbert S. Jandus and Hugh Buchanan, Detroit, Mich., assignors to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application December 29, 1939, Serial No. 311,540
29 Claims. (Cl. 74—537)



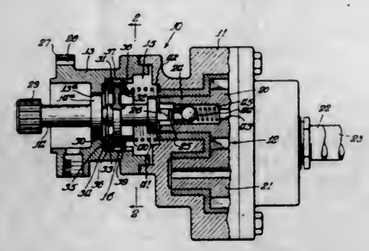
1. A lever construction comprising a lever arranged for pivotal connection to a support, cooperating clutching members for holding said lever in adjusted position, means frictionally engageable for rendering said clutching members inoperative and being arranged of their own accord when so engaged for maintaining the clutching members out of cooperation to allow said lever to be freely and fully swung in either direction, additional means for automatically rendering said clutching members operative when said lever is swung to one of its limits, and other means operative when said first means are inoperative for maintaining said clutching members out of cooperation when the lever is moved in one direction and for maintaining said members in cooperation when the lever is moved in the opposite direction.

2,281,156
DRIVE FOR SHALLOW WATER BOATS
Emil Johnson, Salt Lake City, Utah
Application May 23, 1939, Serial No. 275,191
4 Claims. (Cl. 115—34)



1. In a shallow water drive for boats the combination of a channel member fitted over a slot in the bottom and rear of a boat; a casting secured to the inner end of said channel member having bearings formed on two sides thereof; a flexible packing mounted between the casting and channel member; a drive shaft housing having extended stub shafts on each side to fit into said bearings; a cylindrical housing for the drive shaft secured in said drive shaft housing with the end closed by a bearing; a drive shaft passed through both housings and with the rear end extending through said bearing with the space between the housing and shaft packed full of grease; a worm type propeller having the forward end of the worm slanting to screw through or over obstructions; bearings in the forward end of said shaft housing to guide the drive shaft; a sheave wheel mounted on the forward end of said drive shaft within the boat; a stationary motor mounted in the boat; and a belt driving the shaft sheave from the drive sheave of the motor.

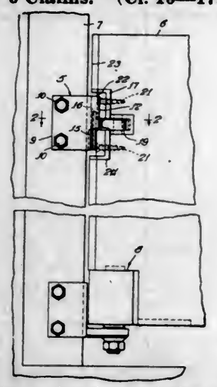
2,281,157
OIL PUMP SEAL ASSEMBLY
John Kanuch and Edmund F. Wichorek, Cleveland, Ohio, assignors to Pump Engineering Service Corporation, Cleveland, Ohio, a corporation of Ohio
Application October 23, 1940, Serial No. 362,461
4 Claims. (Cl. 286—7)



1. In a sealing arrangement between the drive shaft and housing of a pump assembly including a shaft extending into said housing and be-

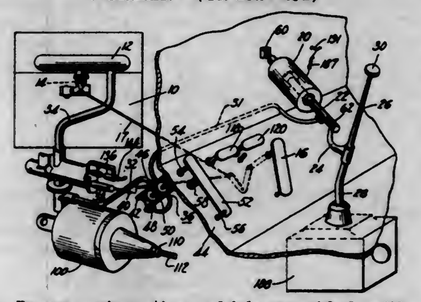
ing formed at the outer end thereof for cooperation with a source of driving power and formed at the inner end thereof with a tongue-like connecting element adapted for cooperation with a complementarily formed extension on a pump gear for driving the same, a radially outwardly extending axial thrust receiving flange formed intermediate the ends of said shaft, said flange being defined in part by a pair of oppositely facing axial thrust receiving surfaces, a circular opening formed in said housing through which said shaft extends, said opening being smaller in diameter than said flange but providing for slight axial adjustment between said housing and said shaft, said flange being disposed within said housing and adjacent said opening, a resilient seal ring in engagement with the inside of said housing about said opening, a generally flat metal bearing washer-like member in engagement on one side with said resilient seal ring and on the other side thereof with the adjacent thrust surface of said flange, a second metal bearing washer-like member in engagement with the opposite thrust surface of said flange, a coil compression spring having a diameter not substantially less than that of said flange received about said shaft with one end portion thereof in engagement with said second bearing washer-like member for urging the same into engagement with said second thrust surface, the other end portion of said coil spring being in engagement with said housing at a point removed axially inwardly of said housing from said flange, at least one axially extending spline on said housing, complementary recesses in the periphery of said washer-like members for preventing the same from turning when said flange thrust surfaces are turned relative thereto by the rotation of said shaft.

2,281,158
HINGE
William J. Keene, Chicago, Ill., assignor to Chicago Spring Hinge Company, Chicago, Ill., a corporation of Illinois
Application June 24, 1940, Serial No. 342,016
5 Claims. (Cl. 16—179)



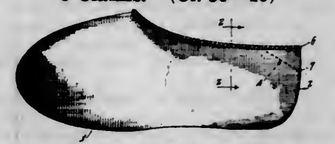
1. In a hinge structure of the class described, a normally stationary hinge part, another hinge part movable vertically relative to said normally stationary part, an intermediate member pivotally connected at one end to said movable hinge part and slidably connected adjacent its other end to said stationary hinge part, said sliding connection comprising oppositely disposed guides formed integral with said stationary hinge part and a base part formed integral with said intermediate member and slidable in said guides, said movable hinge part having a portion adapted to move upwardly toward the lower ends of said guides incident to relative vertical movement between said hinge parts, and said intermediate member base part having a portion normally extending below the lower ends of said guides to normally fill the space into which said movable hinge part moves incident to said relative vertical movement between the hinge parts.

2,281,159
TRANSMISSION OPERATING MECHANISM
Victor W. Kliesrath and Robert P. Breese, New York, N. Y., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application October 24, 1939, Serial No. 301,056
7 Claims. (Cl. 192—.01)



1. In an automotive vehicle provided with a change-speed transmission having a plurality of shift rails, manually and power actuated means for operating the transmission including a hand actuated member, a double-acting pressure differential operated motor, means for controlling the operation of said motor including a valve mechanism housed within said motor and a control unit located exteriorly of said motor, and force-transmitting means interconnecting said hand actuated member, the power element of said motor and the transmission, all of said parts being so constructed and arranged as to make possible movement of the selected shift rail by the physical effort of the driver to establish the transmission in a desired gear ratio, or movement of said rail by said motor, or movement of said rail by the combined physical effort of the driver and the power of said motor.

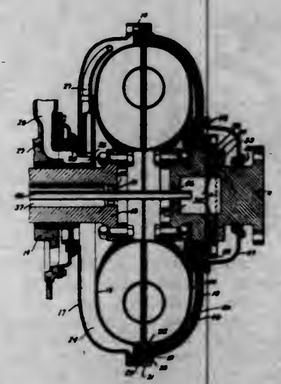
2,281,160
FOOT COVER
Otto B. Kuerschner, Wilmington, Del.
Application April 20, 1940, Serial No. 330,737
3 Claims. (Cl. 36—10)



1. A protector for medication applied to one's foot, consisting of a flimsy fabric body to be slipped onto the foot and having a flimsy heel portion with a heel guard of flexible nonelastic material attached to the fabric heel on its inner side substantially along the vertical medial plane thereof, and extending downwardly from the upper edge of the fabric heel, said guard being in the form of a substantially tri-

angular gusset presenting bottom edges extending laterally and secured to the fabric heel only at points laterally removed from the medial plane, said gusset operating when the protector is worn, to become taut and engage the side of the wearer's heel to maintain the fabric heel in position and prevent the same from being pulled down by the movements of the foot in walking.

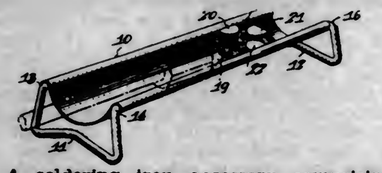
2,281,161
HYDRAULIC CLUTCH THRUST BEARING LUBRICATION AND DRAINAGE
Austin Kuhns and Emil R. Gasser, Buffalo, N. Y., assignors to Farrel-Birmingham Company, Incorporated, Buffalo, N. Y., a corporation of Connecticut
Application January 24, 1941, Serial No. 375,774
4 Claims. (Cl. 60—54)



1. A hydraulic clutch assembly comprising an impeller element and a runner element, a driving shaft connected to the impeller element, a driven shaft connected to the runner element, a two-part casing secured at its periphery to the runner element to rotate therewith and to surround said impeller and runner elements, one part of said casing and said runner element defining a scoop tube chamber, a scoop tube mounted in said chamber, leakage passageways connecting the working space between said clutch elements with said scoop tube chamber, a thrust bearing between the second part of said casing and said driving shaft for neutralizing the axial thrust of the clutch elements, means for supplying lubricant to said bearing, and an auxiliary casing structure surrounding said second part of said casing and said bearing for receiving drainage lubricant from said bearing and having connection with said leak-off passageways for flow of the drainage lubricant into said scoop tube chamber.

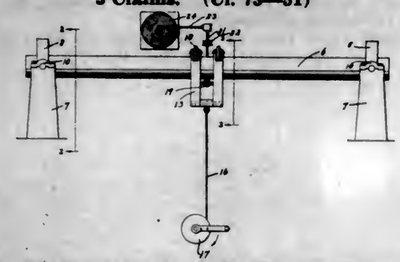
4. A hydraulic coupling assembly comprising an impeller element structure and a runner element structure, axially aligned supporting shafts for said structures respectively, a thrust bearing between one of said shafts and the structure supported by the other shaft, said thrust bearing shaft having an axially extending chamber therein for lubricant and said shaft having passageways therethrough for flow of the lubricant from said chamber to said bearing, and means extending through said other shaft for supplying lubricant to said chamber.

2,281,162
SOLDERING IRON CLEANING AND SUPPORTING STAND
Walter A. Kuehl, Chicago, Ill.
Application November 13, 1939, Serial No. 304,244
6 Claims. (Cl. 113—111)



1. A soldering iron accessory comprising a trough-like bed, supporting members attached to said trough-like bed for supporting it in a substantially horizontal position, a plurality of resilient finger-like elements supported from the bottom of said bed and forming a partial enclosure, two of said elements being arranged to form opposite sides of said partial enclosure and the third of said elements being arranged to form the back thereof, and a cleaning and abrading element comprising metallic wool peripherally retained within said resilient finger-like elements, said cleaning and abrading element being formed in the shape of a wad having portions thereof extending into the spaces between said finger-like elements for holding said wad and being sufficiently exposed to permit the soldering iron tip to be forced against said wad and rotated without engaging said finger-like elements.

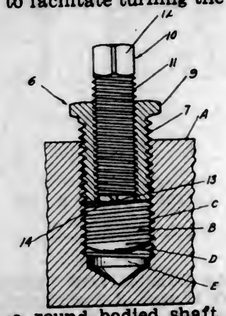
2,281,163
APPARATUS FOR DETERMINING THE DEGREE OF FATIGUE IN DRILL PIPE AND THE LIKE
Edward K. Lane, Houston, Tex.
Application July 19, 1940, Serial No. 346,330
3 Claims. (Cl. 73—51)



1. An apparatus for indicating the fatigue of a pipe or the like, comprising a pair of spaced supports each having a pivoted part adapted to embrace a pipe or the like and prevent lateral movement thereof at the point embraced while permitting pivotal and longitudinal movement thereof at said point, and means adapted to engage said pipe or the like intermediate said supported points to apply a lateral force thereto for deflecting the same, said last mentioned means being releasable from said pipe by the application of a predetermined deflecting force to the pipe therethrough.

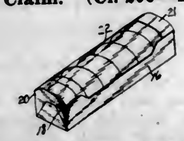
2,281,164
DEVICE FOR REMOVING BROKEN STUDS
Howard S. Maling, Seattle, Wash.
Application February 19, 1941, Serial No. 379,627
1 Claim. (Cl. 81—53)

A device for loosening and removing parts of broken studs from threaded sockets, comprising a tubular sleeve, a spiral thread on the outside of the sleeve to conform with the thread in the sockets, a spiral thread on the inner walls of the sleeve sloping in opposite direction from the outside thread thereon, and a shoulder on the top of the sleeve to facilitate turning the same within



the sockets, a round bodied shaft and a spiral thread around the same operative with the said threads inside the sleeve, teeth projected from the lower end of the shaft to impinge against the top of the studs and adapted to turn said studs outward when the shaft is turned downward.

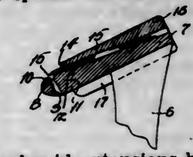
2,281,165
CARTON
William W. Miller, Middletown, Conn.
Application July 25, 1940, Serial No. 347,391
1 Claim. (Cl. 206—44)



A carton formed of a one-piece blank including a bottom section, side sections to be bent upwardly from the bottom section, end flaps at each end of the side sections, bottom section end flaps at each end of the bottom section, a crimping section in each end of the bottom section adjacent the union between the bottom section end flaps and the bottom section, said blank being adapted for folding to provide a crease extending centrally along the bottom section and bottom section end flaps, each bottom section end flap at opposite sides thereof having an inwardly extending notch, a fold line between said notches defining at the end of each flap an integral window supporting flap, the outer sides of the notches of each flap being straight and alined, and the inner side of each notch being convexly curved and in operative position defining a curved support for the window supporting flap.

2,281,166
SAFETY RAZOR AND BLADE
Robert De Silva Nava, San Luis Potosi, Mexico, assignor to Juan Martinez Lopez, San Luis Potosi, Mexico
Application February 9, 1939, Serial No. 255,385
2 Claims. (Cl. 30—66)

1. A safety razor for use with a resilient concavo-convex blade, said razor including a wedge-shaped head having means defining a guard at its forward edge and decreasing in thickness from the guard edge to the rear edge and presenting a flat seat for a blade, said head being provided with integrally formed and tapered guide extensions, a cap having side wings slidable along said extensions and guidedly retained thereby in relation to said head, said cap including a wedge-shaped clamping plate integral with said wings and increasing in thickness from its forward edge to its rear edge and presenting a flat face in opposed and spaced relation to said seat, said

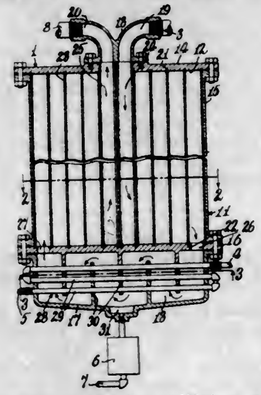


side wings and said extensions being cooperable to effect clamping movement of said clamping plate towards said seat as said cap is pushed forwardly on said head whereby the forward portion of said plate is adapted progressively to engage said blade with an ironing movement and being cooperable with the resilient blade under the forward portion of said plate to retain said cap and said head in assembled relation in use.

2,281,167
GRANULAR MATERIAL
Ernest H. Nichols, Hagerstown, Md., assignor to The Funkhouser Company, Hagerstown, Md., a corporation of Maryland
No Drawing. Application January 4, 1940, Serial No. 312,417
6 Claims. (Cl. 91—70)

1. A process of making weather-resistant, color-permanent, stony granules suitable for use on asphalt-treated roofing felt, which comprises treating granules of schistose greenstone, of a size suitable as roofing granules, with an amount of liquid phosphoric acid sufficient to moisten said particles, and heating the moistened particles to about 600° F. to 1200° F. until the surfacing is glazed and weatherproof.

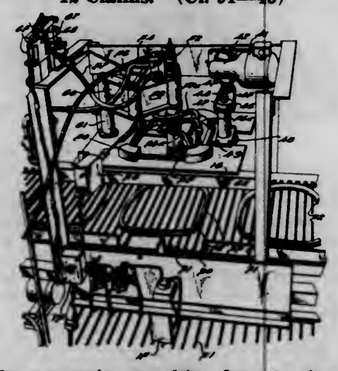
2,281,168
GASEOUS FLUID TREATING APPARATUS
Win W. Paget, Long Beach, Michigan City, Ind., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application January 17, 1938, Serial No. 185,312
3 Claims. (Cl. 257—9)



1. In a device for dehumidifying a moisture-laden gas, in combination, means forming a pair of spirally disposed non-communicating

passages separated from each other by relatively thin substantially vertical walls, each passage throughout the greater part of its length having the other passage at each of its opposite sides, top inlet means for one of said passages adjacent its axis, top discharge means for the other of said passages adjacent its axis, bottom discharge means for said first passage adjacent its outer end, bottom inlet means for said second passage adjacent its outer end, said bottom discharge means and said bottom inlet means spaced from each other substantially the full width of said device, means forming a compartment connecting said bottom discharge means and said bottom inlet means, and cooling means in said compartment over which fluid passing from said bottom discharge means to said bottom inlet means passes in such transit.

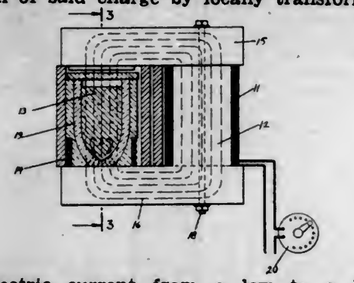
2,281,169
AUTOMATIC SPRAYING MACHINE
Herbert J. Pattison, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application March 24, 1939, Serial No. 263,954
12 Claims. (Cl. 91—45)



11. In a spraying machine for spraying workpieces of uniform sizes, a spray gun bodily movable along a curvilinear path lying in a substantially straight plane and substantially corresponding to the configuration of the workpiece to be sprayed, an intermittently moving endless conveyor adapted to receive workpieces and to bring them one after another into a position in spraying proximity to said gun and to stop in such a position having the respective workpiece in such spaced relationship to the gun that when said gun moves along its path the spray of the gun substantially follows the configuration of said workpiece, means stopping said conveyor as a workpiece reaches said position, and means beginning the moving of said gun for spraying said workpiece as said conveyor stops.

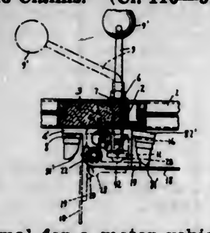
2,281,170
METHOD OF AND APPARATUS FOR MELTING METALS BY ELECTROMAGNETIC INDUCTION
Clarence Q. Payne, New York, N. Y.
Application November 7, 1940, Serial No. 364,635
6 Claims. (Cl. 13—26)

1. The method of melting finely divided inductive metals, which consists in constricting to a coned point the sectional area of such a metal charge, placing it within the magnetic flux circuit of an alternating electromagnet, and then raising to its melting temperature the coned portion of said charge by locally transforming



the electric current from a low to a high amperage.

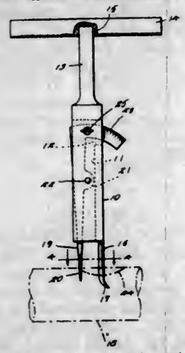
2,281,171
SIGNAL FOR MOTOR VEHICLES
Clarence Ringwald, Springfield, Ohio
Application June 17, 1940, Serial No. 340,877
13 Claims. (Cl. 116—52)



1. In a signal for a motor vehicle, a housing secured to the vehicle body and lying wholly on the exterior thereof, a semaphore hinged to said housing, a spring carried by said housing normally holding said semaphore in non-signalling position, a bushing projecting transversely through the vehicle body and communicating with said housing, a structure the parts of which are rigid, an operating member controlled from the interior of the body, said structure being so constructed that at least a portion of the structure is movably carried by said bushing and adapted to be moved by the initial movement of said operating member in one direction to move at least a portion of said structure axially outward to first position the outer portion thereof in operative relation with said semaphore and by the final movement of said operating member in the same direction to cause at least a portion of said structure to move said semaphore to signalling position.

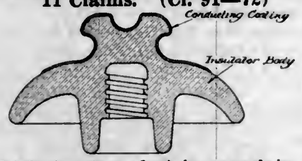
2,281,172
TAPPING TOOL
Lawrence J. Rodgers, Vernon, Tex.
Application June 2, 1941, Serial No. 396,356
1 Claim. (Cl. 164—71)

A tapping tool comprising a frame in the nature of a bar, a transverse handle on the upper end of the bar for turning the bar axially, a shank extending downward from the bottom of the bar terminating in a curved sharpened lower end, there being a longitudinal recess in one side of the bar opening through the bottom of the bar and having a transverse extension at the upper end opening through the opposite side of the bar, a cutter in the nature of a bar pivoted centrally in said recess and extending downwardly along said shank, the cutter terminating in a sharpened lower end adapted to cut a circular disk from a pipe when the curved lower end of the shank is inserted in the pipe at the center of an opening to be cut by the cutter during rotation of the tool to carry the cutter in a circular path around the shank, an arcuate scale on the upper end of the cutter concentric with



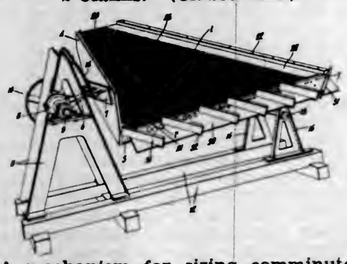
the pivot of the cutter and extending through said extension of the recess for indicating adjusted pivotal positions of the cutter with respect to the first named bar, and a set screw engaged through the first named bar and engaging the cutter to hold the cutter in adjusted positions.

2,281,173
INSULATOR AND METHOD OF PRODUCING CONDUCTING COATING THEREON
Sebastian L. Santomieri, Columbus, Ohio, assignor to Victor Insulators, Inc., Victor, N. Y., a corporation of New York
Application January 10, 1940, Serial No. 313,211
11 Claims. (Cl. 91—72)



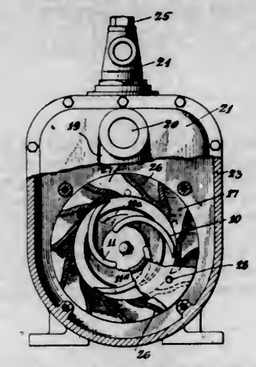
1. A high tension electric porcelain insulator having a fired surface conducting coating consisting of a material derived by firing a coated composition containing an inorganic compound of an element of group II of the periodic table and an inorganic compound of an element from the section of group VIII of the periodic table which contains iron, cobalt, and nickel.

2,281,174
MATERIAL SIZING MECHANISM
Oliver W. Steele, St. Louis, Mo.
Application March 7, 1939, Serial No. 260,300
2 Claims. (Cl. 209—112)



1. A mechanism for sizing comminuted unsized material including in combination an inclined impermeable support, lying in a substantially continuous plane, means for feeding material to travel by gravity over the support, means for reciprocating the support to propel material thereon across the direction of its flow by gravity, a plurality of material-collecting and settling impervious grooves substantially V-shaped in cross section for vertically sizing the material therein and for guiding propelled material over the support and across the direction of its gravital flow, said grooves being continuous from end to end and of diminishing depth and width longitudinally in the direction of travel of the material propelled therealong.

2,281,175
PRIMING MEANS FOR SELF-PRIMING PUMPS
Albert C. Stratton, Ridgewood, N. J., assignor to Alfred S. Marlow, Ridgewood, N. J.
Application October 4, 1940, Serial No. 359,662
4 Claims. (Cl. 103—113)

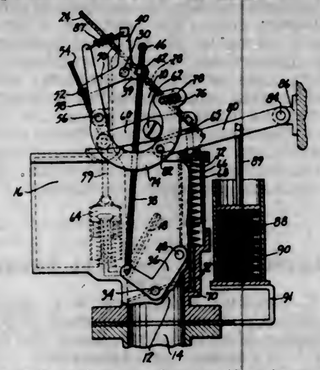


1. A self-priming pump of the turbine type as herein described, comprising in combination a case holding reserve liquid and having a suction inlet and discharge outlet, a propelling unit submerged within said reserve liquid consisting of a rotating impeller enclosed on one face by a disc having at its center a suction opening in communication with said suction inlet and at its periphery a series of conventional diffusion passages in radial alignment with said impeller leading forward in the direction of the impeller rotation only enough to overlap an adjacent passage, each passage opening directly into said reserve liquid, and admitting said reserve liquid to the impeller periphery for agitation into an air liquid mixture, said enclosing disc provided with small port holes communicating between said reserve liquid and said diffusion passage at the periphery of said impeller to accelerate the outward flow of said air-liquid mixture from said diffusion passage into said reserve liquid.

2,281,176
CARBURETOR
Stuyvesant C. Smith, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application May 5, 1932, Serial No. 609,479
4 Claims. (Cl. 261—39)

4. In a carburetor for an internal combustion engine, a choke valve actuated by a differential of pressures on opposite sides thereof, means tending to close the valve upon increase in tem-

perature, means responsive to suction posterior to the throttle for modifying the effect of the temperature-responsive means, said temperature-responsive means being adapted to fully



open the valve at normal operating temperature of the engine, and a second choke valve connected to the first mentioned means to be operated thereby.

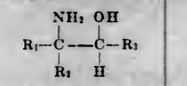
2,281,177

FATTY ACID SALTS OF AMINO ALCOHOLS

Byron M. Vanderbilt, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

No Drawing. Application August 13, 1937, Serial No. 158,961
6 Claims. (Cl. 260—404)

1. A higher fatty acid salt of an aminoalcohol of the following general structural formula:



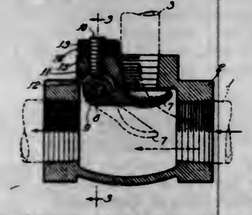
wherein the substituents R_1, R_2 and R_3 represent components chosen from the class consisting of hydrogen atoms and alkyl groups having less than four carbon atoms, in which the sum of the hydrogen atoms represented by said substituents is less than three, and the sum of the carbon atoms represented by R_1 plus R_2 is less than four and greater than zero.

2,281,178

PIPE FITTING

Farley J. Wilkinson, Homewood, Ill.

Application June 29, 1938, Serial No. 216,503
1 Claim. (Cl. 138—37)



A branch fitting adapted to be removably inserted in a heating unit, provided with two opposed openings, each opening adapted to removably receive therein a conduit pipe, a third opening lateral to the said opposed openings, a swinging arm adapted to serve as a closure for said last mentioned opening, said swinging arm journaled on a shaft and secured thereto by means of a screw, a bolt head on said shaft extending externally of said fitting and serving as a means for changing the position of said swinging arm, and having graduations on the external side thereof to indicate the relative position of said swinging arm, and a set screw projecting externally from said fitting and adapted by means of a nut and packing underneath the nut to be pressed against the swinging arm with relatively great frictional pressure, whereby the said arm is locked in any predetermined position against the pressure of the water that may be exerted against it.

2,281,179

PRODUCTION OF RUSTLESS IRON

William B. Arness, Baltimore, Md., assignor to Rustless Iron and Steel Corporation, Baltimore, Md., a corporation of Delaware

No Drawing. Original application July 20, 1933, Serial No. 681,373. Divided and this application November 28, 1936, Serial No. 113,258
2 Claims. (Cl. 75—127)

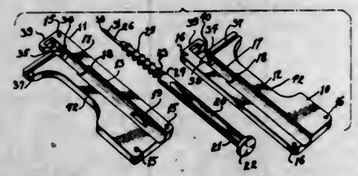
1. The process of producing sound, fine-grained chromium iron castings which comprises forming a melt containing iron; adding to the said melt an iron-chromium-nitrogen prealloy containing about 60% to 70% chromium and .5% to 1% nitrogen, the ratio of nitrogen to chromium in said prealloy being between about 1:140 and 1:75; and then casting the melt.

2,281,180

NEEDLE THREADER

Philipp Christ, East Orange, N. J., assignor to Aid Manufacturing Company, East Orange, N. J., a partnership of New Jersey

Application May 9, 1940, Serial No. 334,295
8 Claims. (Cl. 223—99)



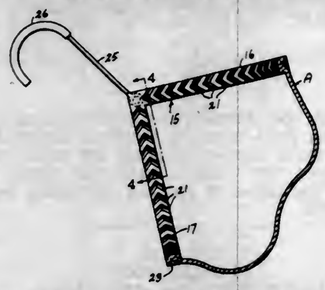
1. A needle threader comprising a body portion having a thread-receiving recess at one end thereof, a needle-holding aperture in said body portion between said thread-receiving recess and the opposite end of the body portion, an elongated aperture extending through said body portion transversely to said thread-receiving recess and in communication with said needle-holding aperture, a plunger reciprocably mounted within said elongated aperture, guide means integral with and disposed in said body portion slidably engaging said plunger to prevent the same from turning in said elongated aperture, a flexible hooked member attached to the inner end of said plunger and adapted to pass across said thread-receiving recess and receive a thread, guide members with converging hook-facing sides projecting from opposite sides of said elongated aperture toward the center thereof, leaving only a narrow slit therebetween and lying on opposite sides of said hooked member when the latter is advanced to pass through a needle eye, and disposed at the side of the needle-holding aperture opposite to that of thread-receiving recess, whereby when the plunger is depressed the hooked member will be accurately guided through the eye of a needle held in said needle-holding aperture.

2,281,181

RESPIRATORY MASK

Clement S. Clarke, Shreveport, La.

Application August 31, 1940, Serial No. 355,057
6 Claims. (Cl. 128—146)



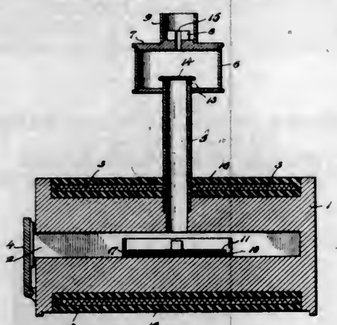
1. An air conditioning face mask formed of air proof sheet material adapted to cover a portion of the wearer's skin, the inside of said mask being bounded by an intra-marginal strip having an exterior surface adapted to fit snugly against the wearer's skin to dispose the inside of the mask in spaced relation to the wearer's skin whereby to form an air chamber communicating with the respiratory system of the wearer, the exterior surface of said strip being provided with transverse shallow grooves constituting means by which air traveling therealong is brought into direct contact with the skin of the wearer.

2,281,182

PROCESS AND APPARATUS FOR CONTROLLING MOISTURE IN GRANULAR AND PULVERULENT SUBSTANCES

Marcel Chopin, Paris, France

Application April 12, 1939, Serial No. 267,443
In France April 26, 1938
8 Claims. (Cl. 34—19)



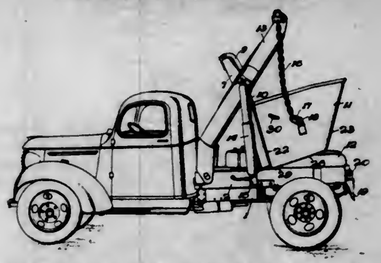
1. Apparatus for drying moisture-containing materials, said apparatus comprising an oven having a heating chamber therein in which moisture-containing materials may be heated to drive off moisture-laden gases, a container adapted to hold a material that will react with moisture to generate a combustible gas, means for conveying said moisture-laden gases from the heating chamber to the container to react with such material in the container to generate a combustible gas, an illuminating burner, and means for conducting gas thus generated from said container to said burner.

2,281,183

TRANSPORTING AND DUMPING DEVICE

George R. Dempster, Knoxville, Tenn.

Application April 27, 1940, Serial No. 332,041
17 Claims. (Cl. 214—77)



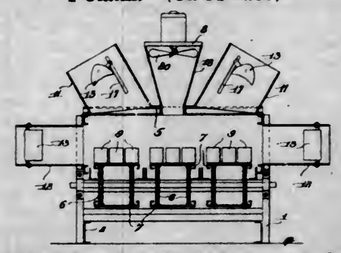
1. In a transporting vehicle, the combination of a track or way extending forward from the rear end of the vehicle above and across the rear axle thereof, a skid traveler movable forward and backward along said track or way, skid frames pivotally mounted on said skid traveler, means normally securing said skid frames to said skid traveler in an upwardly extending direction, power means for imparting movement to said skid traveler, a boom pivoted forward of said track and extending rearward to said skid frames, means for swinging said boom on its pivot to move a container up and down in contact with said skid frames, and connections from the rear end of said boom for said container whereby said container may be moved along said skid frames.

2,281,184

APPARATUS FOR PARTIALLY DRYING MOIST CLAY BODIES

Laurence J. Dykstra and Edwin M. Meyer, Rochester, N. Y., assignors to Victor Insulators, Inc., Victor, N. Y., a corporation of New York

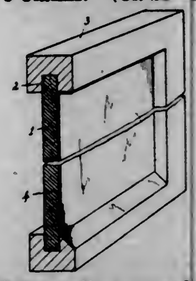
Application November 5, 1940, Serial No. 364,438
1 Claim. (Cl. 34—233)



Apparatus for partially drying moist clay bodies comprising a housing, a conveyor movable through said housing, a net-like support for the clay bodies whereby air has access around substantially the entire surfaces thereof, an air duct located centrally above the housing and in communication therewith, a blower acting to force air through said duct into the housing, chambers located above the housing on opposite sides of said duct, chambers located on opposite sides of the housing, said chambers having their inner ends in communication with the housing and open at their outer ends, and radiant-heat units located in the chambers, the air being movable

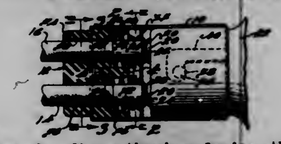
around the clay bodies and thence outwardly through said chambers in a direction opposite to the rays from the heat units.

2,281,185
BUILDING ELEMENT
Friedrich Förster, Berlin, Germany
Application October 31, 1938, Serial No. 238,033
In Germany November 2, 1937
3 Claims. (Cl. 20—81)



1. In a building unit composed of an insulating panel adhesively united to a wooden frame, and a layer of metal foil adhesively united to said panel and frame, the adhesive uniting said panel and frame consisting of a casein-glue containing sodium salicylate, and the adhesive uniting said metal foil to said panel and frame consisting of oxidized boiled linseed-oil.

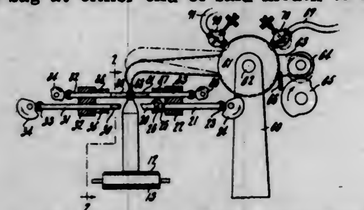
2,281,186
CIRCUIT CONTINUING DEVICE
Charles E. Wade, Sturgis, Mich.
Application September 21, 1938, Serial No. 230,955
3 Claims. (Cl. 175—328)



3. In a circuit continuing device, the combination of a tubular body; an insulator positioned adjacent one end of said body and having an intermediate body portion, an outer boss formation extending outwardly from the outer face of said body portion and an inner boss formation extending inwardly of said body portion into said tubular body, said insulator having a bore extending axially through said inner and outer boss formations and body portion to slidably receive and guide an associated conductor; a spring acting against said inner formation for urging the conductor inwardly of the tubular body, said tubular body having a base against which said outer face seats and provided with a non-circular opening therein; and said outer boss formation being formed to non-rotatively project through said opening.

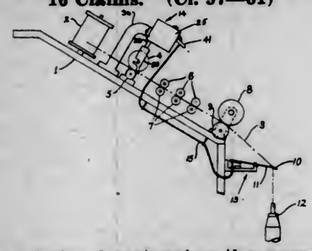
2,281,187
MACHINE AND METHOD FOR PACKING COMMODITIES
Harry F. Waters, New York, N. Y.
Continuation of application Serial No. 20,371, May 8, 1935. This application December 18, 1937, Serial No. 180,591
10 Claims. (Cl. 226—51)

1. In a machine for evacuating a filled bag and sealing the mouth of said evacuated bag, the combination of means for removing air from said bag including an extension terminating in a substantially flat mouth of less width than the bag mouth, and means for gripping the edges of the bag at either end of said mouth to hold



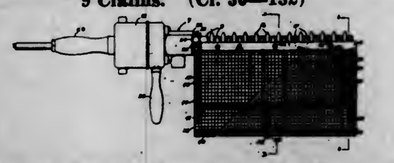
the bag on the extension, said last-named means comprising jaws made of resilient material, the working faces thereof holding the sides of the bag against the walls of said flat mouth and gripping the edges of the bag extending beyond said mouth.

2,281,188
STOP MOTION
Carl B. White, Brookline, Mass.
Application July 17, 1940, Serial No. 345,876
16 Claims. (Cl. 57—81)



1. In a device for stopping the movement of the roving in a spinning machine, actuating means operable by the breaking of the roving, means exerting applied pressure on said roving through a first pressure member against a second pressure member, with said first member positioned above and with at least a part of its weight also exerting a pressure on, said second member and means operated by said actuating means for relieving both of said members of said applied pressure and separating said members.

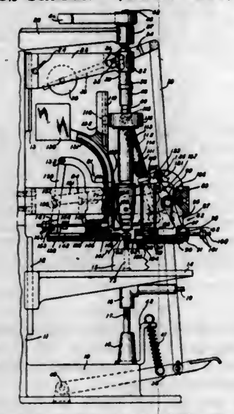
2,281,189
CATCHER ATTACHMENT FOR POWER HEDGE-TRIMMERS
Alfred M. Wright, Oakland, Calif.
Application August 12, 1938, Serial No. 224,533
9 Claims. (Cl. 30—132)



1. A catcher attachment for a hand supported power-driven hedge-trimmer having a housing and a cutter-bar extending from an end portion thereof with a cutter-blade mounted thereon, comprising a plate extending rearwardly from said bar in substantially coplanar relation to the coacting faces of the bar and blade, and means adjacent the forward edge of the plate to releasably secure the plate to said bar, and means

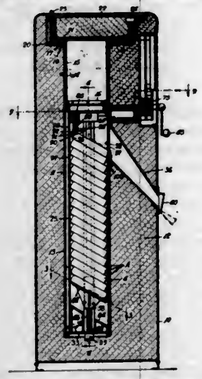
extending from said plate intermediate the forward and rear edges thereof for releasably securing the plate to said end portion of said housing above said bar extending therefrom.

2,281,190
METHOD OF AND APPARATUS FOR ASSEMBLING ARTICLES
Edward Bertalan, Glen Arm, and Lowell J. Moeller, Towson, Md., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application June 5, 1940, Serial No. 338,880
32 Claims. (Cl. 10—155)



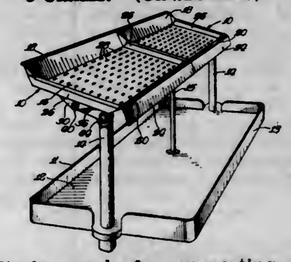
1. An apparatus for assembling articles such as nuts and washers on bolts comprising means to move a nut and a washer into superposed positions, means to center the nut and washer with a bolt, and means operable in timed relation with the said moving and centering means to assemble the nut and washer on the bolt.

2,281,191
VENDING MACHINE
Robert F. Eddy, Emil W. Moeller, Ralph R. Wilcox, and Allan F. Eddy, South Pasadena, Calif.
Application March 26, 1940, Serial No. 325,962
8 Claims. (Cl. 312—36)



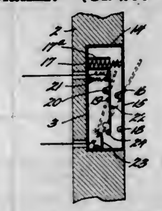
1. In a machine for dispensing articles, the combination comprising a cabinet, means for supporting in an inclined position a stack of articles to be dispensed in said cabinet, a discharge chute, means for feeding said stack upwardly step by step to bring the top article successively in discharge position with respect to said chute, the inclination of said articles being sufficiently steep so that when the top article is in discharge position and free to slide over the next lower article it will slidably gravitate towards the inlet of said discharge chute, and a removable stationary cam adapted to be positioned in the path of upward travel of the articles, engaging the top article while the stack is moving upwardly to impart to said top article a slide impetus toward the inlet of said discharge chute.

2,281,192
DISPLAY RACK
Ernest R. Erickson, Des Moines, Iowa, assignor to C. E. Erickson Company, Incorporated, Des Moines, Iowa, a corporation of Iowa
Application December 12, 1938, Serial No. 245,253
5 Claims. (Cl. 211—126)



4. A display rack for supporting packaged goods on edge comprising a tray having a bottom and an upstanding rear wall, and rows of straight line slits formed in said bottom along lines parallel to said rear wall, the bottom of said tray adjacent said slits, on the sides thereof opposite said rear wall, being upstruck from the plane of said bottom.

2,281,193
BURGLAR ALARM
Campbell Hollingsworth, New York, N. Y.
Application September 4, 1941, Serial No. 409,567
2 Claims. (Cl. 200—54)



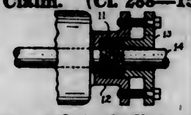
1. In an electrical burglar alarm system, a trip switch for completing an electrical circuit for operating an alarm or the like, said switch comprising a switch box adapted to be inserted in the frame of a closure member and having a closure-contacting face, a pivoted switch element and a companion fixed member having a flexible contact located within said box and adapted to be connected in the electrical circuit, means for yieldingly maintaining said pivoted switch element separated from said flexible contact, a control plate pivotally supported intermediate its length so as to swing from a position flush with the closure-contacting face of the box to a position inwardly of the box, when the closure member is moved out of engagement therewith, and

a spring normally urging said control plate into striking engagement with the pivoted switch element to depress said member into electrical engagement with the fixed member and latch said fixed member behind the flexible contact element to retain the switch in circuit-closing position independent of the control plate.

2,281,194
WATER TREATMENT PROCESS AND MATERIAL
Eric Leighton Holmes, Lucie Evelyn Holmes, and William George Prescott, London, England, assignors, by mesne assignments, to The Permutit Company, New York, N. Y., a corporation of Delaware
No Drawing. Application December 24, 1938, Serial No. 247,640. In Great Britain December 31, 1937
5 Claims. (Cl. 210—24)

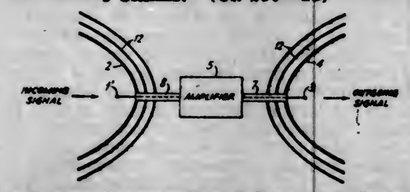
1. A process for de-acidifying water, comprising passing a water containing free acid in contact with extensive surfaces of a resin impregnated carrier made by treating an inert material first with a solution of an organic amine and then at an elevated temperature with an aldehyde capable of forming at such temperature an insoluble acid absorbing condensation product with said amine, and regenerating the resin impregnated carrier from time to time by washing with dilute alkaline solutions.

2,281,195
PACKING
Frank C. Jacobs, New Kensington, Pa.
Application February 2, 1940, Serial No. 316,973
1 Claim. (Cl. 288—15)



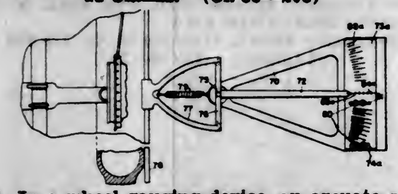
In a packing seal including a compressible packing body comprising a filamentous metallic reinforcement held under compression between the parts to be sealed against the escape of fluid, the invention herein described in which said reinforcement comprises a mass of curled, smooth-edged ribbon of highly elastic metal which under the effect of said compression forms within the packing body a multiplicity of stressed resilient arcs and affords a packing body of enduring elasticity under conditions of service.

2,281,196
RADIO RELAY REPEATER
Nils E. Lindenblad, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application June 30, 1939, Serial No. 282,119
9 Claims. (Cl. 250—15)



1. In a radio repeating station, an antenna including wave directive structure and means for eliminating radiation from the edges of such structure, said means including a resonant structure tuned to offer a high impedance to the operating frequency of said antenna at said edges.

2,281,197
RUNNING GEAR CHECKING APPARATUS
Sidney W. Martin, Chicago, Ill.
Original application December 31, 1935, Serial No. 56,972. Divided and this application October 28, 1939, Serial No. 301,851
13 Claims. (Cl. 33—203)



1. In a wheel gauging device, an arcuate scale portion adapted to rest upon a horizontal support, a pointer adapted to sweep said scale, and means for connecting said pointer to the wheel of a vehicle standing upon a horizontal support upon which said scale portion is resting whereby it may be swept over said scale by turning the wheel with respect to a substantially vertical axis.

2,281,198
FASTENER-APPLYING IMPLEMENT
Arthur H. Maynard, Warwick, R. I., assignor to Boston Wire Stitcher Company, Warwick, R. I., a corporation of Maine
Application August 13, 1940, Serial No. 352,371
3 Claims. (Cl. 248—346)

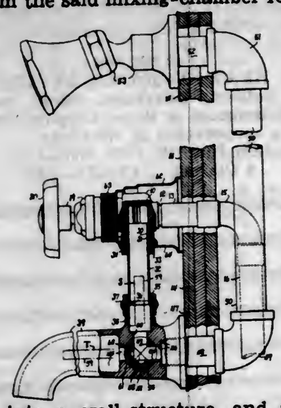


3. In a device of the type indicated, a base adapted to seat on a desk or other support and having a recess in its upper face, a resilient stud projecting upwardly from the recessed portion of the base, and a fastener-applying implement having a bottom member adapted to fit closely within the recess in the base and having an eye in alinement with the stud to adapt it to snap over the latter to detachably connect the implement to the base, said recess in the base cooperating with the bottom member to prevent the implement from turning on the base.

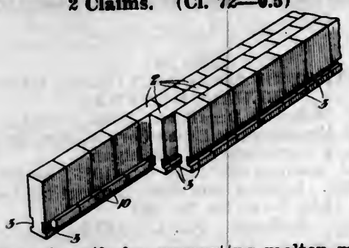
2,281,199
COMBINATION PLUMBING FIXTURE
James W. McGarry, Waterbury, and Elton A. Pope, Middlebury, Conn., assignors to Chase Brass & Copper Co. Incorporated, Waterbury, Conn., a corporation
Application October 9, 1941, Serial No. 414,262
8 Claims. (Cl. 4—145)

1. A combination plumbing fixture, comprising: a spout having a mixed-water-inlet passage therein, a forwardly-extending tub-feeding passage therein communicating with the said mixed-water-inlet passage and a rearwardly-extending shower-feeding passage therein also communicating with the said mixed-water-inlet passage; a two-way valve mounted on the said spout and constructed and arranged to selectively divert mixed water from the mixed-water-inlet passage of the said spout either forwardly through the tub-supply passage thereof or rearwardly through

the shower-supply passage of the said spout; a mixing-head located above the said spout and having a mixing-chamber therein, a hot-water-supply duct projecting rearwardly from the said mixing-chamber for extension into a wall-structure, a cold-water-supply duct projecting rearwardly from the said mixing-chamber for extension also into a wall-structure, and a mixed-water duct leading downwardly from the said mixing-chamber to the mixed-water-inlet passage of the said spout; and valve-means controlling the flow of both hot water and cold water entering the said mixing-head from the respective rearwardly-extending hot-water-supply duct and the rearwardly-extending cold-water-supply duct thereof.

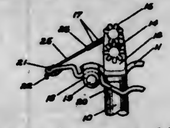


2,281,200
REFRACTORY BRICKWORK
William Rex McLain, Chicago, Ill.
Application August 10, 1939, Serial No. 289,511
2 Claims. (Cl. 72—0.5)



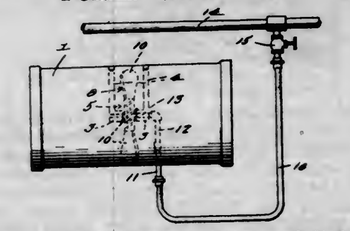
2. In a hearth for supporting molten metal, a single row of contacting, substantially identical rectangular bricks similarly disposed in alignment, whereby the surfaces of the bricks of each row are substantially flush; a similarly formed and disposed single row of bricks in contact with, but staggered with respect to, said first-named row; the contacting surfaces of the bricks of adjacent rows having opposed and similar rectangular recesses to provide a continuous keyway extending longitudinally of the said rows; and a plurality of aligned rectangular keys disposed in said continuous keyway, said keys being of sufficient width to extend between the opposed and similar rectangular recesses; the continuous longitudinal keyway provided by the said recesses being disposed most adjacent the bottoms of the rows of bricks and therefore remotely with respect to the surface of the hearth, whereby the major portions of the said bricks may be eroded by contact therewith of the molten metal without disturbing the keying provided by the continuous keyway and aligned keys aforesaid; the joints between the plurality of aligned keys being staggered with respect to the joints between the bricks of both rows.

2,281,201
MAGAZINE SAFETY RAZOR
Joseph Muros, Cambridge, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
Application November 3, 1939, Serial No. 302,693
23 Claims. (Cl. 30—40)



1. A safety razor having a blade carrier, in combination with a magazine holder having guides retaining a blade magazine movable back and forth in the holder to deliver a blade to the carrier, and interfitting parts on the razor and holder respectively for detachably and positively connecting the razor and holder against separation in the direction of magazine movement.

2,281,202
VENTILATING APPARATUS
Clarence D. Nelson, Mullan, Idaho, assignor of one-half to Edna Hanson, Wallace, Idaho
Application April 11, 1940, Serial No. 329,153
1 Claim. (Cl. 230—116)

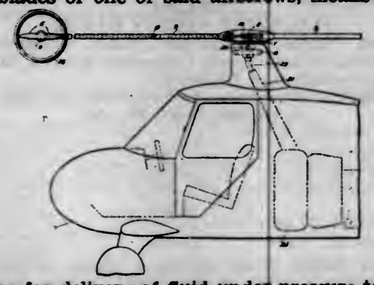


In a ventilating apparatus, a conduit forming member having an inlet end and an outlet end, a longitudinally extending shaft in the member spaced from the ends, means for rotatably supporting the shaft from the member, radiating blades connected with the shaft, a rim surrounding the blades and connected with their outer ends, fan blades radiating outwardly from the rim, all of the blades being constructed and arranged to draw air through the inlet end of the conduit forming member and discharge the air through the outlet end thereof, a manifold in the conduit forming member between the first-mentioned blades and the inlet end of the member, jets carried by the manifold and arranged to discharge fluid forwardly against the first-mentioned blades to rotate the same, said fluid passing from the jets flowing toward the outlet end of the conduit member and means for supplying compressed fluid to the manifold.

2,281,203
DRIVING MECHANISM FOR AIR ROTORS, ESPECIALLY AIRCRAFT SUSTAINING ROTORS
Harold F. Pitcairn, Bryn Athyn, Pa., assignor to Autogiro Company of America, Willow Grove, Pa., a corporation of Delaware
Application November 14, 1939, Serial No. 304,308
4 Claims. (Cl. 244—17)

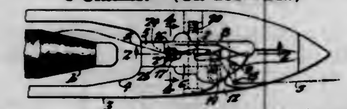
2. In air rotors, a relatively large diameter

bladed rotor, a pair of relatively small diameter tandem coaxial oppositely rotating airscrews mounted on a blade of said rotor to effect rotation thereof, fluid pressure jet means mounted on the blades of one of said airscrews, means pro-



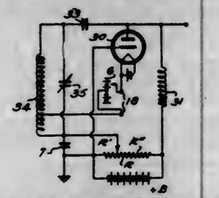
viding for delivery of fluid under pressure to the jet means, and fluid pressure operable impeller means mounted on the blades of the other of said airscrews and juxtaposed to receive fluid ejected from the jet means.

2,281,204
MAGNETIC TENSION DEVICE
Horace H. Raymond, Berlin, Conn., assignor to American Paper Tube Co., Woonsocket, R. I., a corporation of Rhode Island
Application December 4, 1940, Serial No. 368,511
8 Claims. (Cl. 139—212)
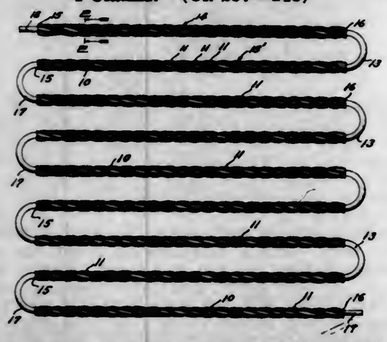


1. In combination, a loom shuttle having means for holding a bobbin of yarn or the like, and a tension-device in the shuttle comprising a pair of opposed tension-members adapted to act against the yarn strand drawing therebetween, at least one of said tension-members being permanently magnetized and the other being magnetically-responsive whereby said tension-members are drawn together to press against the yarn strand.

2,281,205
VOLTAGE VARIATION COMPENSATOR
Robert E. Schock, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application August 20, 1938, Serial No. 225,911
3 Claims. (Cl. 250—36)



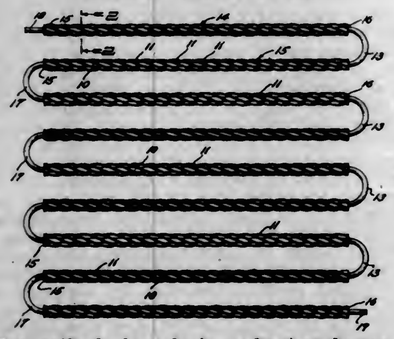
1. A power supply system for an oscillator circuit comprising an electron discharge tube having at least an anode circuit, a grid circuit and a cathode circuit, means for voltage supply compensation of said electron discharge device comprising a potentiometer having a variable tap, a choke coil connected between said anode and one end of said potentiometer, a first source of potential connected in shunt with said potentiometer, a second source of potential connected between said grid and the other end of said potentiometer, an oscillator coil and a variable condenser connected between said anode and the variable tap on said potentiometer, and a tap for said oscillator coil connected to said cathode.

2,281,206
HEAT EXCHANGE DEVICE
Paul F. Schoen, Dearborn, Mich., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich., a corporation of Michigan
Application June 17, 1939, Serial No. 279,690
4 Claims. (Cl. 257—148)



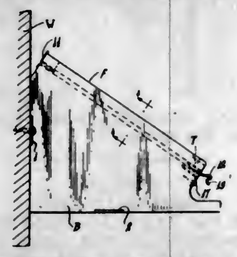
1. A heat exchange unit comprising a single length of tubing formed into straight runs connected by bent portions, each of the straight runs having external spiral fins and internal spiral fins, the bent portions having smooth external surfaces free of fins and having internal non-spiraled fins, a portion at each end of the length of tubing having smooth external surfaces free of fins.

2,281,207
METHOD OF MANUFACTURING HEAT EXCHANGE DEVICES
Paul F. Schoen, Dearborn, Mich., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich., a corporation of Michigan
Original application June 17, 1939, Serial No. 279,690. Divided and this application February 1, 1940, Serial No. 316,803
1 Claim. (Cl. 29—157.3)



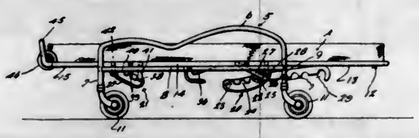
The method of producing a heat exchange device which comprises extruding a length of tubing having internal and external longitudinal fins, giving the fins on certain parts of the tubing a spiral form relative to the tubing, removing the external fins from the ends of the tubing and from certain parts intermediate the ends, and bending the tubing at said intermediate parts.

2,281,208
THUMB TACK DISPENSING DEVICE
Robert Schwarzkopf, New Rochelle, N. Y.
Application May 6, 1941, Serial No. 392,055
3 Claims. (Cl. 312—90)



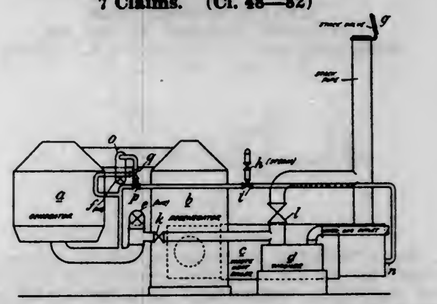
1. A thumb tack dispensing device comprising a base member provided with at least one inclined chute of inverted T-shape cross-section having a size, shape and configuration approximating but larger than that of thumb tacks disposed therein and a length several times the diameter of a tack, the bottom of said chute being closed by a manually operative tack discharging means, said tack discharging means comprising a curved spring leaf member sustained in the discharge end of said chute to provide a closure therefor when in rest position and in spring depressed position to permit the gravity fall of tacks from the said chute.

2,281,209
COMBINATION BED AND CARRIAGE
Orville Dale Smith, Grinnell, Iowa
Application July 29, 1938, Serial No. 222,049
2 Claims. (Cl. 5—66)



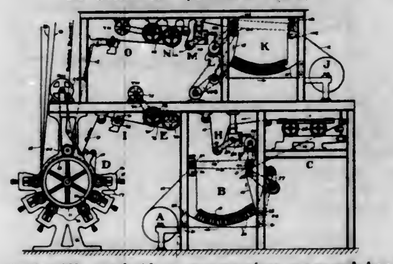
1. A combination structure of the character described, a carriage consisting of side frames, end members connecting the end portions of the side frames, an intermediate cross member connecting the side frames, a bed bottom consisting of an intermediate section, a foot section and a head section hingedly connected together, a hook provided on the intermediate section for disposition under the intermediate cross member, adjusting means between the sections for adjusting the angularity of the sections with respect to each other, said intermediate section being adapted to rest on the intermediate cross member, a downwardly disposed member on the head section end of the intermediate section, an elongated adjusting member having one end provided with a handle and its other end swingably connected to the downwardly disposed member, said elongated adjusting member being disposed under the head section and against which the head section is adapted to rest, said elongated adjusting member having notches therein to receive the adjacent end connecting member between the side frames.

2,281,210
MANUFACTURE OF WATER GAS AND APPARATUS THEREFOR
Joseph Herbert Smith, Elstree, Herts, England, assignor to Humphreys & Glasgow Limited, London, England
Application April 3, 1939, Serial No. 265,802
In Great Britain May 2, 1938
7 Claims. (Cl. 48—82)



1. Apparatus for carrying out the method of operation described comprising a generator, an air supply pipe to the generator base, a regenerator, an outlet from the generator to the regenerator, a secondary air supply pipe to said outlet, a pipe leading from the outlet end of the regenerator to atmosphere, a stack valve thereon, a steam supply main, a steam supply pipe system leading therefrom and comprising three branches leading respectively to the base of the generator, to the generator top and to the outlet end of the regenerator, a three way valve at the junction of said steam supply pipe system with said main, a three way valve at the junction of the branches leading respectively to the base and top of the generator, a pipe loop connecting these two branches and a third three way valve at the junction of said pipe loop with the branch to the generator top.

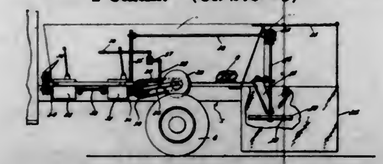
2,281,211
TEXTILE PRINTING APPARATUS
Stephen B. Stafford, Oxford, Mass., assignor to Rice Barton Corporation, a corporation of Massachusetts
Application October 20, 1939, Serial No. 300,433
18 Claims. (Cl. 101—178)



1. A textile printing apparatus comprising a printing machine having power driven rolls which draw the fabric forward at a given rate for the printing operation, means providing a supply of fabric of limited length, a receptacle for the fabric located between said supply and printing machine means for feeding the fabric from said supply to said receptacle at a faster rate than the fabric is fed into the printing machine, so that time is provided for securing a new fabric to the end of the one in said supply while the fabric is

running continuously to the printing machine, independent driving mechanism for removing the fabric from the receptacle and means which controls the driving mechanism and insures that the fabric is held under tension as it is fed forward thereby.

2,281,212
MATERIAL SPREADER
Christian U. Stoltzfus, Joanna, Pa.
Application July 27, 1940, Serial No. 348,042
1 Claim. (Cl. 275—3)



In a material spreader, a vehicle having a body, means for conveying material to the rear of the body, horizontally arranged centrifugal spreading means at the rear of the body and located below the body, chutes for delivering the material from the conveying means on to said spreading means, an elongated horizontally arranged frame connected with the vehicle below the body and extending outwardly beyond the sides of the body and rearwardly beyond the rear end of the body, curtains suspended from the frame and terminating a limited distance from the ground to restrict spreading of the material beyond a given distance from the body, a flexible top connected with the frame and having openings therein for the passage of the chutes, said frame having vertically arranged portions engaged by parts of the curtains, a frame connected with the top of the rear portion of the body and extending beyond the same and suspension means connecting the last-mentioned frame with the curtain supporting frame.

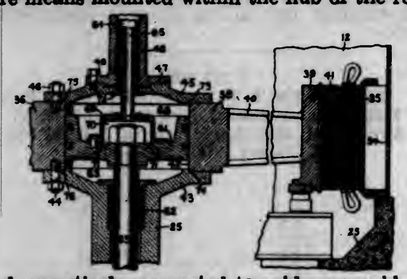
2,281,213
BOMB AND METHOD OF MAKING SAME
Herbert V. Thaden, Mount Lebanon, Pa.
Application December 23, 1938, Serial No. 247,523
16 Claims. (Cl. 29—1.21)



1. In the manufacture of bombs, the method which comprises coiling an elongated metal strip so as to form a laminated hollow body, fastening certain convolutions to one another as the coiling proceeds so as to negative their tendency to uncoil, and securing a piercing head to one end of said body.

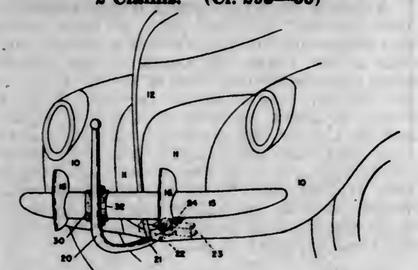
2,281,214
TURBO MACHINE
Karl J. Van Erp, Staten Island, N. Y., assignor to American Voith Contact Company, Incorporated, New York, N. Y., a corporation of New York
Application August 1, 1940, Serial No. 349,276
10 Claims. (Cl. 290—52)

1. In a turbo machine comprising a runner having blades movable into different angular positions and an electric machine having a rotor connected by a shaft to said runner, of fluid pressure means mounted within the hub of the rotor



and operatively connected to said runner blades for actuating the same.

2,281,215
GRILLE GUARD
Charles M. Van Auken, Highland Park, Mich.
Application March 18, 1940, Serial No. 324,475
2 Claims. (Cl. 293—55)



1. In combination with the horizontally arranged bumper of a vehicle, a substantially rigid hollow member fixed in an upright position to said bumper and having its lower end portion extending backward toward said vehicle, and a relatively stiff resilient member fixed to the vehicle frame and extending forward and into the end of said backwardly extending lower portion.

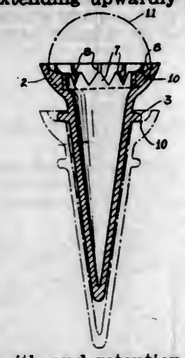
2,281,216
METALLURGY
Marvin J. Udy, Niagara Falls, N. Y.
No Drawing. Original application May 28, 1940, Serial No. 337,680. Divided and this application May 26, 1941, Serial No. 395,310
15 Claims. (Cl. 75—27)

1. In a metallurgical process involving the ignition by contact with a body of molten metal of an exothermic reaction mixture containing solid particles comprising a reducing agent and oxidizing material containing oxygen available for reaction with the reducing agent and capable upon ignition of the reaction mixture of reacting exothermically with the reducing agent, the improvement which comprises employing the reaction mixture in agglomerated form in which the solid particles comprising the reducing agent are intimately associated with and bonded together by means of the oxidizing material.

2,281,217
REINFORCED CONE
Werd W. Turnbull, Chattanooga, Tenn.
Application August 26, 1940, Serial No. 354,233
4 Claims. (Cl. 99—89)

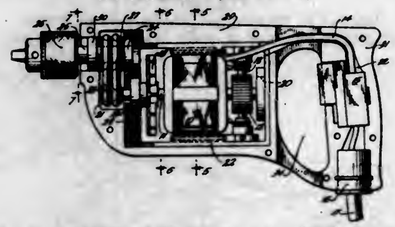
2. A pastry cup of the character described

comprising a hollow body portion, a top portion integrally secured to the upper end thereof and including a continuous mouth and a continuous inner lip spaced from said mouth, a series of projections extending upwardly from the lip for



engagement with and retention of the contents of the cup, and ribs bridging the space between said lip and projections and said mouth to strengthen said top, the tops of the ribs being substantially continuous with the tops of the projection and mouth.

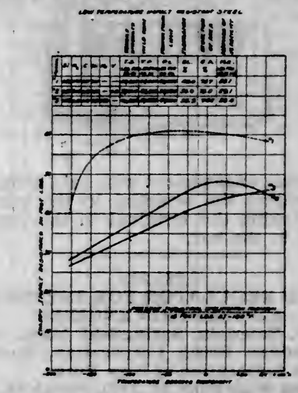
2,281,218
ELECTRIC DRILL
Otis A. Windsor, Santa Monica, Calif., assignor, by mesne assignments, to Armstrong Tool Manufacturing Company, Los Angeles, Calif.
Application July 9, 1940, Serial No. 344,618
14 Claims. (Cl. 77—6)



1. An electric drill having a chuck, a motor for driving the same, the driving connection between the motor and the chuck being such as to electrically insulate the chuck from the motor so that in the event that short circuits or loose connections should develop in the motor or connections leading thereto current will not be carried to the chuck, the motor being enclosed in resilient insulating material.

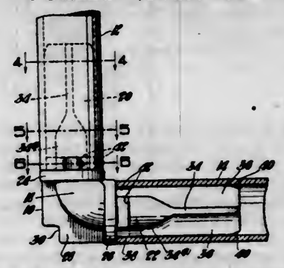
2,281,219
ALLOY STEEL
Nicholas A. Ziegler and Homer W. Northrup, Chicago, Ill., assignors to Crane Co., Chicago, Ill., a corporation of Illinois
Application December 2, 1940, Serial No. 368,124
3 Claims. (Cl. 148—31)

1. A cast low alloy steel which is characterized by low temperature impact resistance, comprising substantially the components nickel 3.5 to 4.0 per cent, silicon 0.2 to 0.4 per cent, manganese 0.5 to 0.8 per cent, carbon up to .07 per cent, the usual incidental contents of sulphur and phosphorus not to exceed .05 per cent, a carbide-forming element of the character described in an effective amount not to exceed 0.5 per cent, the remainder being substantially iron, the said alloy steel being produced in a highly deoxidised state and thereafter given a first normalizing treatment at about 1750 degrees Fahrenheit and cooling to room temperature, a second normaliz-



ing treatment at about 1750 degrees Fahrenheit and cooled to room temperature, an air quenching treatment at about 1550 degrees Fahrenheit and cooled to room temperature, and a drawing treatment at about 1200 degrees Fahrenheit and cooled to room temperature.

2,281,220
GATE CONSTRUCTION
Robert Anderson, Waukegan, Ill., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application March 24, 1941, Serial No. 384,986
6 Claims. (Cl. 287—54)

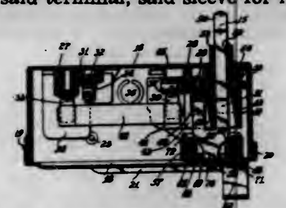


1. A gate structure comprising tubular members connected by an L-like fitting including a body portion having kerfed tongues extending into the members, each tongue having a notched portion and each tubular member having a portion of the wall thereof swaged into a respective notch of the tongue.

2,281,221
BUS BAR DUCT CONNECTOR
William C. Anderson, Bromley, Ky., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a corporation of Connecticut
Application May 18, 1940, Serial No. 335,876
9 Claims. (Cl. 200—51)

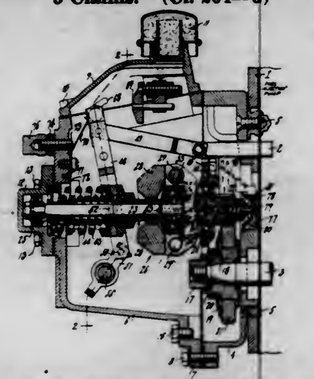
1. In a branch connector, a box carrying a movable switch member, a terminal in the box formed of a single piece of metal having jaws at one end in the box for engagement by said switch member and jaws at the other end pro-

jecting from the box for engaging a bus bar, an insulating sleeve secured in the box and surrounding said terminal, said sleeve for its length



being in snug engagement with said terminal for rigidly holding the terminal in the box and a screw fastening the terminal to the sleeve and the sleeve in the box.

2,281,222
SPEED REGULATOR FOR INTERNAL-COMBUSTION ENGINES
George W. Baierlein, Springfield, Mass., assignor to American Bosch Corporation, Springfield, Mass., a corporation of New York
Application September 27, 1941, Serial No. 412,575
5 Claims. (Cl. 264—3)



1. In a speed regulator for internal combustion engines, a shaft rotatable by the engine, a centrifugal governor driven by the shaft, a non-rotatable bushing mounted on the shaft for axial movements therealong, a sleeve non-rotatably mounted on the bushing and having a collar forming with the bushing an annular pocket around the shaft, an end cap having a bearing supporting one end of the shaft, a non-rotatable spring seat cooperative with the end cap to form a recess therewith, a thrust bearing mounted on the shaft and having its non-rotatable member fast with the bushing and its rotatable member engaged by the governor, a non-rotatable spring extending into said pocket and said recess and arranged to react against the sleeve and the spring seat, and a pivoted fuel control lever acted upon by the collar.

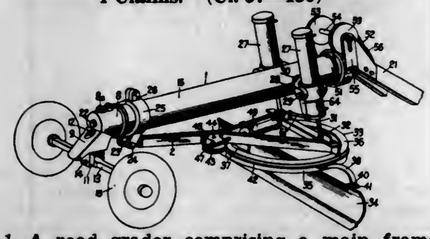
2,281,223
STROP PROTECTOR
Blum G. Barron, Charles M. Taylor, and Florian D. Barron, Houston, Tex.
Application November 18, 1940, Serial No. 366,126
2 Claims. (Cl. 51—268)

1. The combination with a casing having an open end, of means thereon for attaching the casing to a stationary anchor, a roller within the casing, a flexible member one end of which is wound on the roller, a coil spring one end of which is attached to the roller and the other end of which is fixed in relation to the casing, a strop attached, at one end, to the casing, a cylinder attached to the other end of the strop, a hood-like sheath around and enclosing the strop and whose lower end is closed and whose upper end is open, a tubular grip member around the strop



and secured to said open end of the sheath and of approximately the same cross-sectional contour as that of the open end of the casing, an anchor rod to which the free end of the flexible member is attached, said rod having its ends anchored to the grip member whereby the tension on said spring will normally hold the grip member in adjacent relation with the open end of the casing.

2,281,224
GRADER
Daniel F. Baumgartner, Bucyrus, Ohio
Application May 6, 1941, Serial No. 392,064
4 Claims. (Cl. 37—156)

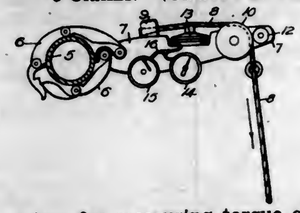


1. A road grader comprising a main frame, said main frame including a support, a tubular member carried by said support for rotating about its own axis, a sub-frame suspended from said tubular member, said sub-frame having its forward end connected to said tubular member by a universal joint and having its rear end connected to said sub-frame by vertically adjustable means, a scraper blade carried by said sub-frame, and means for rotating said tubular member so that the sub-frame will be revolved about the axis thereof.

2,281,225
METHOD OF PRODUCING MOLDS
Purling A. Bleakley, Toledo, Ohio, assignor to The Bleakley Corporation, Toledo, Ohio, a corporation of Delaware
No Drawing. Application February 15, 1940, Serial No. 319,014
8 Claims. (Cl. 148—3)

8. A method of producing a metal article which comprises spraying a stream of molten metal in comminuted form and at a temperature above the melting point of said metal onto and causing it to adhere to a form cooled by a liquid at substantially the temperature of water, and moving said stream and said form relatively to cause said metal to impinge upon different portions of said form to produce a shell of metal having a surface conforming to the shape and size of said form.

2,281,226
APPARATUS AND SYSTEM FOR MEASURING TORQUE
Younse Boles, Pinedale, Wyo.
Application September 11, 1939, Serial No. 294,331
3 Claims. (Cl. 265—1)



3. A system for measuring torque comprising tongs inclusive of a lever arm, a pulley journalled for rotation on the arm, a cable reeved over the pulley and anchored to the arm, a compressible element on the arm in a position to contact and to deflect said cable between the pulley and the place of anchorage of the cable to the arm and normally to hold it out of a straight line position, and an indicative element operatively connected with said compressible element.

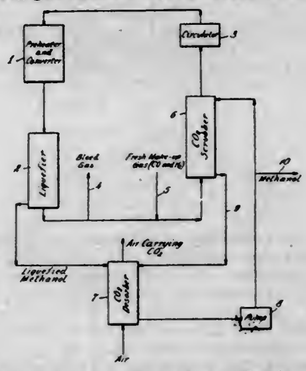
2,281,227
METHOD OF MAKING FACE CASTS
Alexander Brady, Newton, Mass.
Application July 27, 1940, Serial No. 347,878
3 Claims. (Cl. 18—55)



3. The method of making a cast of a face of a subject, comprising placing eye covers having depressed outer rim portions on the enclosed eyelids of the said subject with said outer rim portions resting on said eyelids, depositing plastic material on said face and eye covers and leaving it there until it can be removed as a unit with said eye covers integral therewith, removing the resultant mask, placing eye members having projecting lid portions and pupil members on said eye covers with said lid portions seating in said eye cover outer rim portions and said pupil members pointing towards said eye covers, depositing plastic material on the face features of said mask and on said eye members and leaivng it there until it can be removed as a unit with said eye members integral therewith.

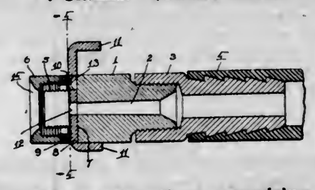
2,281,228
PROCESS FOR SYNTHESIZING METHANOL
Ralph Lyman Brown, Bala-Cynwyd, Pa., assignor to The Solvay Process Company, New York, N. Y., a corporation of New York
Application March 3, 1939, Serial No. 259,622
10 Claims. (Cl. 260—449)

1. In a process for the synthesis of methanol wherein a gas containing hydrogen and carbon monoxide is circulated in a cyclic system wherein it is passed under high pressure in contact with a catalyst promoting the synthesis of methanol from the hydrogen and carbon monoxide, the gas after contact with the catalyst is treated to remove methanol and the residual gas from which the methanol has been removed is recirculated into contact with the catalyst, and wherein the gas introduced into contact with the catalyst contains an equilibrium concentration of carbon dioxide, that improvement which comprises contacting said gas containing hydrogen and carbon



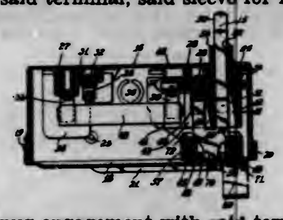
monoxide with a methanol synthesis catalyst which is free from oxides and salts of the alkali and alkaline earth metals at a temperature of 300° C. to 340° C. and at a space velocity of 10,000 to 20,000 and removing from the gas circulating in said cyclic system carbon dioxide in amount such that the gas introduced into contact with the catalyst contains materially less carbon dioxide than said equilibrium concentration, thereby preventing the substantial decrease in catalytic activity of said catalyst which results when the gas introduced into contact therewith contains said equilibrium concentration of carbon dioxide.

2,281,229
NOZZLE CONSTRUCTION
Giles E. Bullock, Rochester, N. Y.
Application June 2, 1941, Serial No. 396,250
7 Claims. (Cl. 299—139)



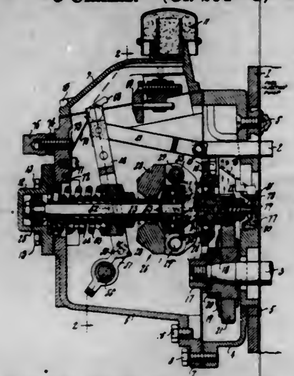
1. A nozzle construction comprising a valve body having a duct therethru, a valve seat extending transversely across said valve body and its duct, a valve member mounted to slide on said valve seat and projecting from the side of said valve body for movement thereof, a cap movable endwise on said valve body and having an opening in the end thereof in line with said duct, and compressible means interposed between said cap and said valve member, said valve member having at least one opening therethru for alignment with said valve duct and the opening in said cap by the movement of said valve member.

jecting from the box for engaging a bus bar, an insulating sleeve secured in the box and surrounding said terminal, said sleeve for its length



being in snug engagement with said terminal for rigidly holding the terminal in the box and a screw fastening the terminal to the sleeve and the sleeve in the box.

2,281,222
SPEED REGULATOR FOR INTERNAL-COMBUSTION ENGINES
George W. Baierlein, Springfield, Mass., assignor to American Bosch Corporation, Springfield, Mass., a corporation of New York
Application September 27, 1941, Serial No. 412,575
5 Claims. (Cl. 264—3)



1. In a speed regulator for internal combustion engines, a shaft rotatable by the engine, a centrifugal governor driven by the shaft, a non-rotatable bushing mounted on the shaft for axial movements therealong, a sleeve non-rotatably mounted on the bushing and having a collar forming with the bushing an annular pocket around the shaft, an end cap having a bearing supporting one end of the shaft, a non-rotatable spring seat cooperative with the end cap to form a recess therewith, a thrust bearing mounted on the shaft and having its non-rotatable member fast with the bushing and its rotatable member engaged by the governor, a non-rotatable spring extending into said pocket and said recess and arranged to react against the sleeve and the spring seat, and a pivoted fuel control lever acted upon by the collar.

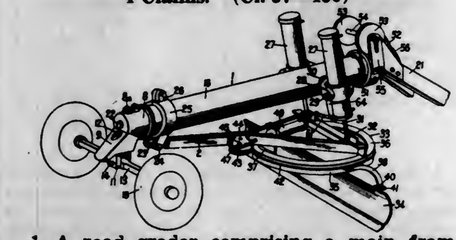
2,281,223
STROP PROTECTOR
Blum G. Barron, Charles M. Taylor, and Florian D. Barron, Houston, Tex.
Application November 18, 1940, Serial No. 366,126
2 Claims. (Cl. 51—268)

1. The combination with a casing having an open end, of means thereon for attaching the casing to a stationary anchor, a roller within the casing, a flexible member one end of which is wound on the roller, a coil spring one end of which is attached to the roller and the other end of which is fixed in relation to the casing, a strop attached, at one end, to the casing, a cylinder attached to the other end of the strop, a hood-like sheath around and enclosing the strop and whose lower end is closed and whose upper end is open, a tubular grip member around the strop



and secured to said open end of the sheath and of approximately the same cross-sectional contour as that of the open end of the casing, an anchor rod to which the free end of the flexible member is attached, said rod having its ends anchored to the grip member whereby the tension on said spring will normally hold the grip member in adjacent relation with the open end of the casing.

2,281,224
GRADER
Daniel F. Baumgartner, Bucyrus, Ohio
Application May 6, 1941, Serial No. 392,064
4 Claims. (Cl. 37—156)

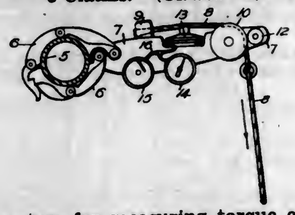


1. A road grader comprising a main frame, said main frame including a support, a tubular member carried by said support for rotating about its own axis, a sub-frame suspended from said tubular member, said sub-frame having its forward end connected to said tubular member by a universal joint and having its rear end connected to said sub-frame by vertically adjustable means, a scraper blade carried by said sub-frame, and means for rotating said tubular member so that the sub-frame will be revolved about the axis thereof.

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METHOD OF PRODUCING MOLDS
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No Drawing. Application February 15, 1940, Serial No. 319,014
8 Claims. (Cl. 148—3)

8. A method of producing a metal article which comprises spraying a stream of molten metal in comminuted form and at a temperature above the melting point of said metal onto and causing it to adhere to a form cooled by a liquid at substantially the temperature of water, and moving said stream and said form relatively to cause said metal to impinge upon different portions of said form to produce a shell of metal having a surface conforming to the shape and size of said form.

2,281,226
APPARATUS AND SYSTEM FOR MEASURING TORQUE
Younse Boles, Pinedale, Wyo.
Application September 11, 1939, Serial No. 294,331
3 Claims. (Cl. 265—1)



3. A system for measuring torque comprising tongs inclusive of a lever arm, a pulley journalled for rotation on the arm, a cable reeved over the pulley and anchored to the arm, a compressible element on the arm in a position to contact and to deflect said cable between the pulley and the place of anchorage of the cable to the arm and normally to hold it out of a straight line position, and an indicative element operatively connected with said compressible element.

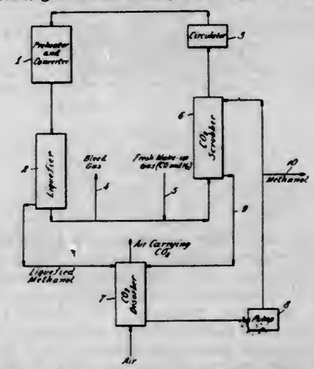
2,281,227
METHOD OF MAKING FACE CASTS
Alexander Brady, Newton, Mass.
Application July 27, 1940, Serial No. 347,878
3 Claims. (Cl. 18—55)



3. The method of making a cast of a face of a subject, comprising placing eye covers having depressed outer rim portions on the enclosed eyelids of the said subject with said outer rim portions resting on said eyelids, depositing plastic material on said face and eye covers and leaving it there until it can be removed as a unit with said eye covers integral therewith, removing the resultant mask, placing eye members having projecting lid portions and pupil members on said eye covers with said lid portions seating in said eye cover outer rim portions and said pupil members pointing towards said eye covers, depositing plastic material on the face features of said mask and on said eye members and leaivng it there until it can be removed as a unit with said eye members integral therewith.

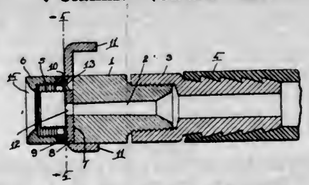
2,281,228
PROCESS FOR SYNTHESIZING METHANOL
Ralph Lyman Brown, Bala-Cynwyd, Pa., assignor to The Solvay Process Company, New York, N. Y., a corporation of New York
Application March 3, 1939, Serial No. 259,622
10 Claims. (Cl. 260—449)

1. In a process for the synthesis of methanol wherein a gas containing hydrogen and carbon monoxide is circulated in a cyclic system wherein it is passed under high pressure in contact with a catalyst promoting the synthesis of methanol from the hydrogen and carbon monoxide, the gas after contact with the catalyst is treated to remove methanol and the residual gas from which the methanol has been removed is recirculated into contact with the catalyst, and wherein the gas introduced into contact with the catalyst contains an equilibrium concentration of carbon dioxide, that improvement which comprises contacting said gas containing hydrogen and carbon



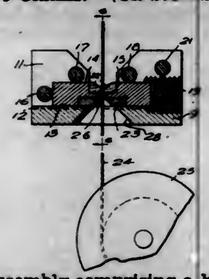
monoxide with a methanol synthesis catalyst which is free from oxides and salts of the alkali and alkaline earth metals at a temperature of 300° C. to 340° C. and at a space velocity of 10,000 to 20,000 and removing from the gas circulating in said cyclic system carbon dioxide in amount such that the gas introduced into contact with the catalyst contains materially less carbon dioxide than said equilibrium concentration, thereby preventing the substantial decrease in catalytic activity of said catalyst which results when the gas introduced into contact therewith contains said equilibrium concentration of carbon dioxide.

2,281,229
NOZZLE CONSTRUCTION
Giles E. Bullock, Rochester, N. Y.
Application June 2, 1941, Serial No. 396,250
7 Claims. (Cl. 299—139)



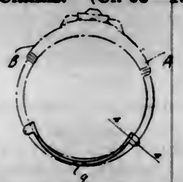
1. A nozzle construction comprising a valve body having a duct therethru, a valve seat extending transversely across said valve body and its duct, a valve member mounted to slide on said valve seat and projecting from the side of said valve body for movement thereof, a cap movable endwise on said valve body and having an opening in the end thereof in line with said duct, and compressible means interposed between said cap and said valve member, said valve member having at least one opening therethru for alignment with said valve duct and the opening in said cap by the movement of said valve member.

2,281,230
APPARATUS FOR MAKING METALLIC RIBBON
Harry Blount and Harold P. Arizena, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Original application May 8, 1937, Serial No. 141,480. Divided and this application February 14, 1940, Serial No. 318,796
6 Claims. (Cl. 205—26)
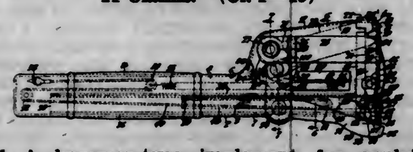


1. A die assembly comprising a holder having a base and side members, die mounting members fitting between said side members and resting on said base member, said die mounting members having cut out portions, a single apertured spacer for said die mounting members positioned in the cut out portions thereof, and means for holding said die mounting members against said spacer.

2,281,231
RETAINING CLIP FOR WEDDING AND ENGAGEMENT RINGS
Frank R. Campana and William Goetz, San Francisco, Calif.
Application March 20, 1941, Serial No. 384,290
4 Claims. (Cl. 63—15)



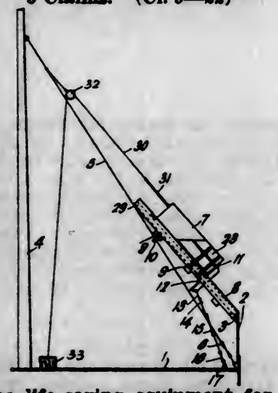
1. A device for retaining a wedding ring and an engagement ring together, comprising a curved member having resilient means engaging the inner peripheries of the rings and another means engaging the outer peripheries of the rings, whereby the two rings are retained in a resiliently locked position together.

2,281,232
FASTENER-APPLYING IMPLEMENT
John F. Cavanagh, Providence, R. I., assignor to Boston Wire Stitcher Company, Warwick, R. I., a corporation of Maine
Application March 8, 1939, Serial No. 260,536
11 Claims. (Cl. 1—49)



1. A hammer-type implement for applying fasteners comprising a handle, a head at one end of the handle having an open forward side, a removable bonnet having a front wall and side walls enclosing the front and sides of the upper portion of the head and providing a closure for the open side thereof throughout the greater portion of its length, a resilient strap embracing the bonnet and sides of the head for yieldingly attaching the bonnet to the head, a movable gate for closing the open side of the head at the lower portion thereof, fastener-driving means wholly enclosed within the head, and means for operating the fastener-driving means.

2,281,233
MARINE LIFESAVING EQUIPMENT
Robert Stanley Chipchase, South Shields, England
Application March 8, 1941, Serial No. 382,356
In Great Britain January 25, 1940
5 Claims. (Cl. 9—22)

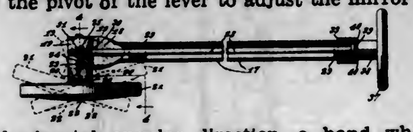


1. Marine life-saving equipment for installation on a ship, comprising in combination with a buoyant unit, a slip-way structure adapted to be mounted in a downwardly and outwardly inclined position on a ship with the foot end of said structure extending at least flush with the outside of the ship's hull, a first releasable retaining means carried by said structure and adapted to engage the lower end of said unit to arrest said unit in an elevated position bearing against said structure, said retaining means being adapted to oppose movement of said unit in a downward sense relatively to said structure, while permitting movement of said unit away from said structure in a direction other than downwards, and a second retaining means on said structure engageable with the upper part of said unit inoperative to prevent release of said unit by release of said first retaining means and releasable by movement of the lower end of said unit away from said structure in a direction other than downwards.

2,281,234
REAR VIEW MIRROR
Elvin C. Clark and Harold J. Clark, Montour, Iowa
Application June 24, 1940, Serial No. 342,164
4 Claims. (Cl. 88—93)

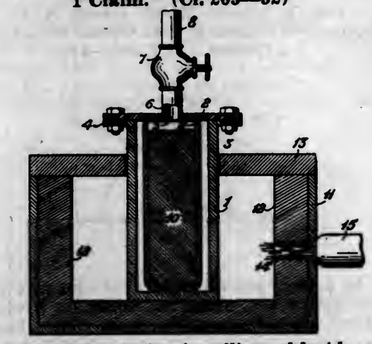
1. A rear view mirror for motor vehicles comprising, a tubular arm, means for mounting the arm upon a motor vehicle for inward or outward adjustment and oscillating movement, a lever, a pivot mounting the lever at a point between its ends on the outer end of the arm, a mirror secured to one end of the lever, a rod

mounted for axial rotation in the arm, a nut swivelly mounted on the opposite end of the lever from the mirror, the outer end of the rod being threadedly engaged in the nut to swing the lever about a vertical axis of rotation formed by the pivot of the lever to adjust the mirror in



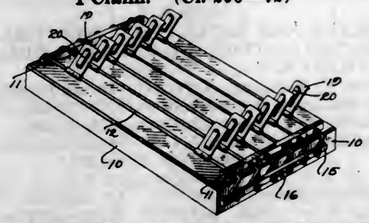
a horizontal angular direction, a hand wheel having a hub mounted on the inner end of the rod for turning the rod, and a handle secured to the inner end of the arm for turning the arm on a horizontal axis to adjust the mirror in a vertical angular direction.

2,281,235
PROCESS OF FUSING BERYLLIUM CHLORIDE
Hugh S. Cooper, New York, N. Y., assignor to Cooper-Wilford Beryllium, Ltd., Philadelphia, Pa., a corporation of Delaware
Application November 28, 1940, Serial No. 367,623
1 Claim. (Cl. 263—52)



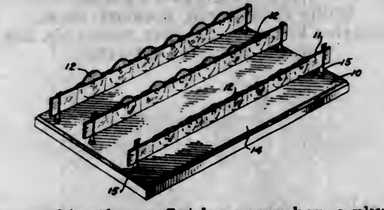
The process of fusing beryllium chloride which comprises heating it in a closed vessel to a temperature of about 300° C. while permitting the generated vapors to escape, and thereafter heating to a temperature of about 400° C. while keeping the vessel tightly closed.

2,281,236
STRIP HOLDER
Pauline S. Eckman, San Francisco, Calif.
Application July 2, 1940, Serial No. 343,629
1 Claim. (Cl. 206—72)



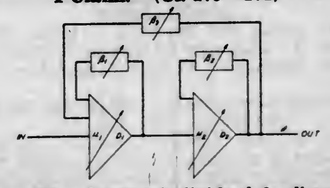
A device of the character described comprising a flat base, a plurality of shafts arranged in parallelism to each other at spaced distances apart and parallel to the adjacent face of the base and positioned a slight distance above the face of the base, said shafts being rotatably supported at their ends on the base, a pair of strip holding clips fixed on each shaft adjacent the ends thereof and extending radially from said shafts, a crank at the end of each shaft, connecting means connecting said cranks in parallelism and capable of simultaneously operating all of said shafts to dispose said strip holding clips either in an upraised position relative to the face of the base or in a flatwise position relative to and closely adjacent to the face of the base, and keeper means for maintaining the connecting means in an adjusted position.

2,281,237
MEANS FOR PACKAGING POLISHING DISKS AND HOLDER THEREFOR
Pauline S. Eckman, San Francisco, Calif.
Application July 2, 1940, Serial No. 343,631
1 Claim. (Cl. 206—72)



In combination, a flat base member, a plurality of pairs of gripping members projecting upwardly from the base, the gripping members of each pair being in alignment and positioned adjacent the opposite ends of the base, the pairs of the gripping members being spaced apart laterally of the base, a package in strip form to be gripped and received by said gripping members, said package comprising a strip of flexible material folded upon itself longitudinally forming two strips of material lying side by side, the same being secured laterally at spaced intervals apart along the length thereof to divide the interior of the same into a plurality of pockets each of a dimension to more or less snugly receive a polishing disk, said packages being gripped at their ends by said gripping members and held in position with the open edges of the pockets disposed uppermost.

2,281,238
FEEDBACK AMPLIFIER
Quentin E. Greenwood, Flushing, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 1, 1940, Serial No. 332,645
1 Claim. (Cl. 179—171)



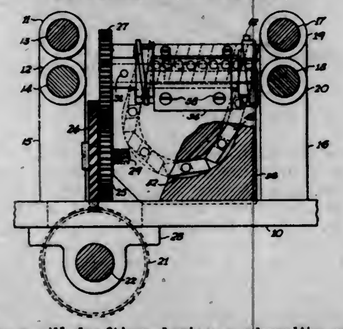
An amplifier having individual feedback paths of propagations β_1 and β_2 respectively around first and second cascaded amplifying portions forming therewith two feedback loops of loop propagations $\mu_1\beta_1$ and $\mu_2\beta_2$, respectively, and an over-all negative feedback path around both portions forming therewith a third feedback loop, $\mu_1\beta_1$ and $\mu_2\beta_2$ differing from unity, $\mu_1\beta_1$ minus unity being equal to μ_2 times the ratio of the magnitude of a given order of distortion components generated by the first and second am-

plifying portions at their respective outputs without feedback, and said portions and paths having propagations adapted to maintain the amplifier stable.

2,281,239
PESTICIDAL COMPOSITION
Henry B. Hass, West Lafayette, Ind., assignor to Purdue Research Foundation, Lafayette, Ind., a corporation of Indiana
No Drawing. Application September 30, 1940, Serial No. 359,103
5 Claims. (Cl. 167—22)

1. An insecticidal composition comprising a lower 1,1-dichloro-1-nitroalkane.

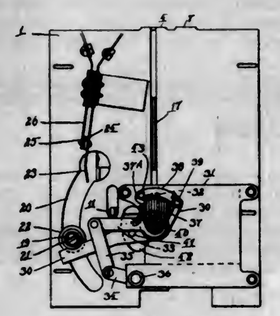
2,281,240
GILL DRAWING FRAME
Willie Holdsworth, Seekonk, Mass.
Application February 24, 1940, Serial No. 320,524
11 Claims. (Cl. 19—129)



2. In a gill drafting device, a plurality of faller bars arranged in series for continuous movement one following another, said faller bars having their pins arranged vertically and their adjacent sides parallel and inclined forwardly in the direction of their movement through a working stroke, means for traversing the faller bars through a working stroke, and means for ejecting the faller bars at the end of their working stroke by sliding them in a plane parallel to their forwardly inclined sides whereby the pins of a following faller bar advance toward the pins of the foremost faller bar during the ejection of the latter.

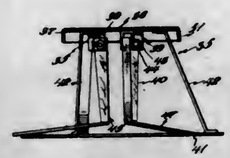
2,281,241
ELECTRIC TOASTER OPERATING MECHANISM
Alvin D. Keene and Theodore S. Krebs, Rochester, N. Y., assignors to Samson-United Corporation, Rochester, N. Y., a corporation of Delaware
Application November 12, 1940, Serial No. 365,219
4 Claims. (Cl. 219—19)

1. An electric toaster operating mechanism comprising a movement panel, a guide post on said movement panel, a carrier movable on said post, a slide movable on said guide post for movement of said carrier in one direction, a spring for movement of said carrier in the opposite direction, a dog for engagement of said carrier to hold said carrier against movement by said spring, a link pivotally mounted on said slide for endwise movement therewith, a guide slot in said movement panel, a stud carried by said link and movement in said guide slot to cause lateral swinging movement of the link on its movement with said slide, and a lug carried by said link for engagement of said dog and disengagement from said carrier to permit move-



ment of said carrier with said slide on said post by said spring.

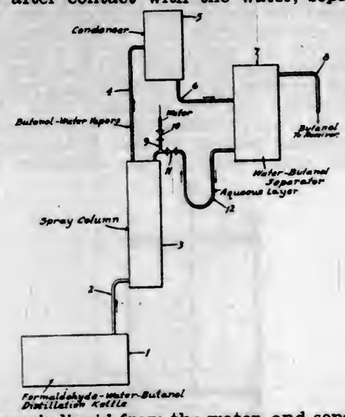
2,281,242
CHURN ATTACHMENT
Guy T. Kilmer, Middle Grove, N. Y.
Application August 6, 1941, Serial No. 405,663
3 Claims. (Cl. 259—1)



1. In a mechanically operated churn, a frame for mounting the cream container on a washing machine agitator comprising an upper member and a lower member, means for securing said members together in spaced relation, the lower member being provided with an opening adapted to axially receive a washing machine agitator, a plurality of legs for engaging the agitator, at least one of the legs having a portion extending axially of the frame and hinged to the upper member and a portion extending radially of the frame and movable in adjacency to the lower member and means to secure said movable leg to the lower member in selected adjusted position.

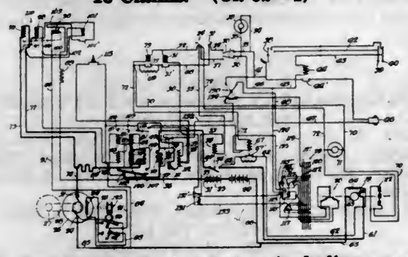
2,281,243
PROCESS FOR SEPARATING MIXTURES OF FORMALDEHYDE AND VOLATILE ORGANIC COMPOUNDS
Arthur C. Lansing, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
Application October 4, 1939, Serial No. 297,807
3 Claims. (Cl. 202—66)

1. In a process for separating from a formaldehyde-containing mixture, an organic liquid which is at least partially water-soluble and which is capable of being distilled from an aqueous mixture at a temperature below the boiling point of water, the steps which comprise distilling said mixture, contacting the resulting vapors containing formaldehyde and the organic liquid countercurrently with water to scrub out the formaldehyde, condensing the organic liquid vapors and water vapors remaining in the vapor phase after contact with the water, separating



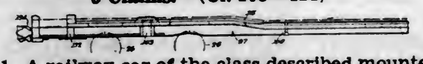
the organic liquid from the water, and separately recovering the formaldehyde.

2,281,244
AIR CONDITIONING SYSTEM
John P. Milar, Chicago, Ill., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application November 18, 1938, Serial No. 241,213
13 Claims. (Cl. 62—4)



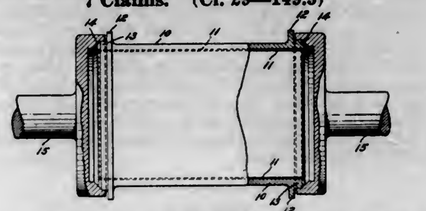
7. An air conditioning system including a compressor, condenser, an evaporator, and means for driving the compressor, clutch means between the driving means and the compressor, and a control circuit including a thermostat, means responsive to the thermostat for energizing the compressor driving means, generating means, time delay means for energizing the generating means, and means responsive to the output of the generating means for energizing the clutch means so as to positively drive the compressor.

2,281,245
RAILWAY CAR
Peter Parke and Nils A. Thunstrom, Chicago, Ill., assignors to The Pullman Company, Chicago, Ill., a corporation of Illinois
Application August 9, 1938, Serial No. 223,963
5 Claims. (Cl. 105—414)



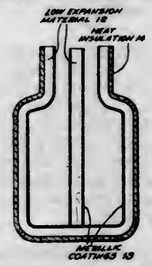
1. A railway car of the class described mounted on trucks and having an underframe including a center sill extending throughout the length of the car, the longitudinal axis of which is substantially a straight line, means at the ends of the car for receiving the buff and draft loads, the relative positions of the center sill and said means being such that the longitudinal axis of the center sill will be substantially along the line of buff and draft applied at said means, car side sills lying substantially in the horizontal projection of the center sill in the region between the car trucks and positioned above the horizontal projection of the center sill in the region over the trucks, and a floor supported on the side sills throughout their length and also supported on and spaced above the center sill adjacent to the trucks.

2,281,246
METHOD OF MAKING BEARINGS
William J. Peters and Wayne Pattison, Detroit, Mich., assignors to Bohn Aluminum & Brass Corporation, Detroit, Mich., a corporation of Michigan
Application February 5, 1940, Serial No. 317,284
7 Claims. (Cl. 29—149.5)



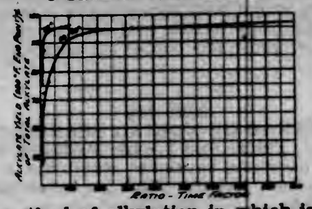
1. The method of finishing bearings having a shell formed of strong backing material lined with a layer of bearing material which comprises: initially forming the bearing with outturned end flanges of greater width axially of the bearing than are to be present in the finished bearing, rough boring the inner diameter of the bearing, chucking against the inner diameter, removing part only of the end faces of the flanges to produce terminal collars of less radius than the flanges, bevelling the outer corners of the collars to form chamfers, and engaging the chamfers with chucks to hold and center the bearing, and finishing the outside of the shell.

2,281,247
ULTRA SHORT WAVE RESONANT CIRCUIT
Harold O. Peterson, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application February 29, 1940, Serial No. 321,399
13 Claims. (Cl. 178—44)



12. The process of making a tuned oscillatory circuit which includes the step of molding a material having a low temperature coefficient of expansion to the form of a hollow body, and coating the interior of said body with electrically conducting material, whereby the resonance characteristic of said tuned circuit is dependent upon the interior dimensions of said hollow body tuned circuit.

2,281,248
PROCESS OF ALKYLATING HYDROCARBONS
David H. Putney, Kansas City, Mo., assignor to Stratford Development Corporation, Kansas City, Mo., a corporation of Delaware
Application August 2, 1941, Serial No. 405,199
5 Claims. (Cl. 196—10)



1. A method of alkylation in which iso-paraffinic hydrocarbons are alkylated with olefinic hydrocarbons in the presence of a condensation catalyst in an alkylation stage and the catalyst recycled for reuse, the improvement which comprises selectively absorbing the olefinic hydrocarbons of the charge in the catalyst prior to alkylation and limiting the residence time period of contact of the catalyst and olefins in minutes to less than one tenth of the volumetric catalyst olefin hydrocarbon ratio.

2,281,249
GERMICIDAL CONCENTRATE
Luther S. Roehm, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application May 9, 1940, Serial No. 334,269
5 Claims. (Cl. 167—31)

1. A composition comprising 24 parts by weight of ortho-phenyl phenyl dissolved in from 36 to 136 parts by weight of a liquid partially neutralized sulphonated oil selected from the group consisting of castor and sperm oils, and which in 5 per cent aqueous solution has a pH above 7.0.

2,281,250
METHOD OF MAKING SPIRAL CUTTERS
Henry Ruskin, Chicago, Ill., assignor of one-half to George E. Hale, Chicago, Ill.
Application December 8, 1938, Serial No. 244,593
2 Claims. (Cl. 76—104)



1. The method of making cutters with spirally pitched shear slots, which comprises drilling an eccentric bore in a piece of cylindrically formed stock, threading said bore with a thread of the desired pitch of said slots, and grinding the exterior surface portions radially of said bore and eccentrically relative to said bore until the trough portions between said threading are cut through to provide slots pitched conformably with the pitch of said threading.

2,281,251
CONTAINER
Albert Elliott Simmons, Eureka, Calif., assignor of one-third to Ernest S. Mitchell, Eureka, Calif.
Application February 21, 1940, Serial No. 320,193
1 Claim. (Cl. 206—56)

In a container having a vertically movable false bottom, a flexible lifting member attached centrally to said false bottom and rising therefrom, said flexible lifting member being arranged to be bent outwardly and downwardly over the upper edge of said container, and a cap arranged to telescope on the upper end of said container, said cap comprising a skirt substantially conformably engaging the outside of said container when in closed position, said skirt being formed with an internal vertical groove to accommodate the depending portion of said lifting member, the said upper edge of the container being



formed with a notch opening into the upper part of said vertical groove in the skirt of the cap to accommodate the bend of said lifting member and allow said cap to seat upon the said upper edge of the container, the upper part of said container being formed with an exterior bead to be met by the lower edge of the skirt of the cap with the cap in closed position, the lower edge of the skirt of the cap and said bead cooperating to clamp the depending portion of said lifting member.

2,281,252
CONDENSATION PRODUCT OF STYRENE AND ARYL ETHERS
Frank B. Smith and Harold W. Moll, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application November 2, 1938, Serial No. 238,438
4 Claims. (Cl. 260—612)

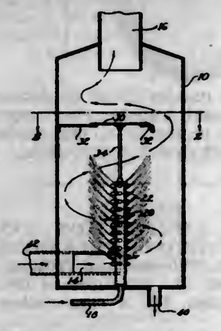
1. A condensation product of styrene and diphenyl ether prepared by reacting styrene with diphenyl ether in the presence of an alkylation catalyst, said product distilling at temperatures between about 210° C. and about 248° C. under 20 millimeters pressure and consisting of a mixture of isomeric mono-phenylethyl-diphenyl ethers.

2,281,253
NITRO ALCOHOL
Alfred G. Susie, Boston, Mass., assignor to Purdue Research Foundation, La Fayette, Ind., a corporation of Indiana
No Drawing. Application March 5 1941, Serial No. 381,845
1 Claim. (Cl. 260—617)

1-(1-nitrocyclohexyl)-1-ethanol.

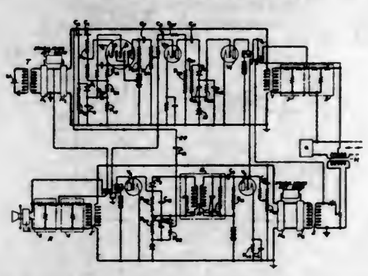
2,281,254
APPARATUS FOR WASHING IMPURITIES FROM GAS
Alfred W. Anthony, Jr., Waltham, Mass., assignor to Pease, Anthony Equipment Company, Cambridge, Mass., a corporation of Massachusetts
Application September 17, 1940, Serial No. 357,105
3 Claims. (Cl. 261—79)

1. Apparatus for gas-liquid contact, comprising an elongated treating chamber, means for imparting a spinning velocity to the body of gas within the chamber, means for delivering centrally of the spinning gas body a spray of liquid divided into droplets preponderantly so fine as to be incapable of traversing the gas body through their initial momentum, and means for interposing centrally of the chamber above the de-



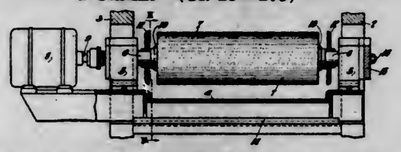
livery of the liquid spray a diverting surface of a diameter of about one-third to one-half the diameter of the chamber in a position to divert outwardly an axially rising cloud of droplets which otherwise would pass through the outlet without traversing the gas body, the chamber being substantially unobstructed in the space surrounding said surface.

2,281,255
TELEPHONE CONTROL CIRCUITS
Herbert W. Augustadt, Valley Stream, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 8, 1940, Serial No. 351,869
2 Claims. (Cl. 179—170)



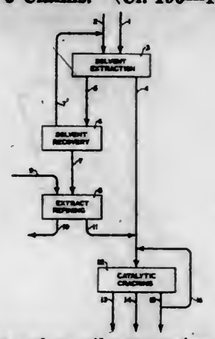
1. In combination, a two-way telephone system including oppositely directed one-way transmission paths for repeating the telephone signals in opposite directions, a voice operated switching system comprising amplifier-rectifier switching circuits controlled from the respective one-way paths for switching losses between the paths in such manner as to suppress echoes and prevent singing, and means to improve the operation of said switching system including a voice-operated volume range expander connected in front of the rectifier in at least one of said switching circuits, the expander operating to provide a better signal-to-noise ratio, to increase the speed of operation of the circuit and to provide a more nearly constant hold-over time for varying level input signals.

2,281,256
UNITARY BRUSH ASSEMBLY
Howard G. Bargfeldt, Gary, Ind., and Winfred M. Quigley, West View, and Ewart S. Taylerson, Pittsburgh, Pa., assignors to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application April 28, 1939, Serial No. 270,707
1 Claim. (Cl. 15—179)



A brushing apparatus comprising a frame, a unitary brushing assembly slidable endwise in said frame, said assembly comprising an elongated inverted U-shaped supporting member, means carried by said frame for supporting and guiding said supporting member, a driving unit secured to said supporting member adjacent one of its ends and adapted for disposition exteriorly of said frame, a rotary shaft extending longitudinally of said supporting member and secured thereto, and a rotary elongated brush carried by said rotary shaft.

2,281,257
TREATMENT OF CRACKING STOCKS
Wayne L. Benedict and Jacob Elston Ahlberg, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application March 27, 1939, Serial No. 264,480
6 Claims. (Cl. 196—13)



1. A hydrocarbon oil conversion process which comprises extracting the charging oil with a selective solvent to remove objectionable components of the oil, separating the resultant extract and raffinate, treating the extract with an acidic refining agent, combining the thus treated extract with said raffinate, and subjecting the resultant mixture to catalytic cracking.

2,281,258
FOOD GRINDER PLATE
Wade H. Benton, Fort Worth, Tex.
Application September 26, 1940, Serial No. 358,546
9 Claims. (Cl. 146—189)

1. A food chopper comprising, a discharge plate and a cutter rotatable relative to and in contact with each other cooperatively to comminute food, the discharge plate comprising a primary member and a companion piece, the primary member providing a surface of contact

for the cutter with apertures therethrough cooperating with the cutter for coarse comminution of the food, the companion piece comprising inserts positionable in the apertures of the primary member, the inserts each providing a surface of contact for the cutter positioned in the plane of the surface of contact of the primary member when the inserts are positioned



in the apertures, additional apertures through the contact surfaces of the primary member and companion piece smaller than the first named apertures cooperating with the cutter for finer comminution of the food, and means to adjust the primary member and companion piece with the inserts selectively positioned into and out of the first named apertures to regulate the degree of fineness of food comminution.

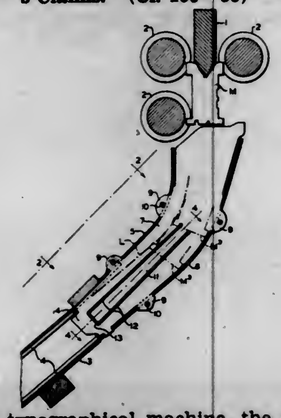
2,281,259

TYPOGRAPHICAL MACHINE

John W. Bittner, Bellerose, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y., a corporation of New York

Application May 23, 1941, Serial No. 394,791

5 Claims. (Cl. 199—33)



1. In a typographical machine, the combination of a channel entrance for guiding matrices from the distributor to a magazine and having spaced partitions forming matrix passages between them, with auxiliary matrix guiding means constituted by portions partially severed from the respective partitions and bendable about their unsevered connections therewith into the matrix passages at either side of the partitions.

2,281,260

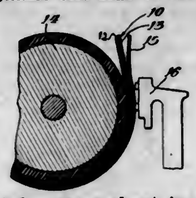
MEANS FOR AND METHOD OF PREPARING MASTER COPY SHEETS

Johan Bjorksten, Chicago, and William J. Champion, Berwyn, Ill., assignors to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia

Application December 15, 1939, Serial No. 309,364

4 Claims. (Cl. 41—41.5)

1. The method of preparing a master copy sheet for use in a planographic or like duplicating process, which method comprises typing data to be duplicated against one side of an assembly com-



prising a metal master sheet in contact with a transfer sheet, said transfer sheet comprising a base paper sheet impregnated and coated on both sides with an oleaginous composition.

2,281,261

HECTOGRAPH COMPOSITION AND BLANKET AND METHOD OF PREPARING SAME

Johan Bjorksten, Chicago, and William J. Champion, Riverside, Ill., assignors to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia

No Drawing. Application January 23, 1941, Serial No. 375,616

10 Claims. (Cl. 41—31.6)

1. A hectograph copy mass which has substantially no tendency toward increased hardness over an extended period of time, said mass comprising tanned gelatin and a conversion product, other than the tanned gelatin, of a tanning compound which has substantially no tanning action.

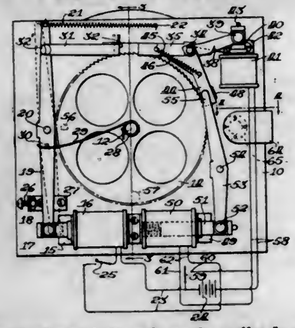
2,281,262

STEP-UP MECHANISM

Charles T. Breitenstein, Chicago, Ill., assignor to Raymond T. Moloney, Chicago, Ill.

Application March 14, 1940, Serial No. 323,926

7 Claims. (Cl. 74—142)



1. In a device of the class described, a support, a ratchet wheel turnably mounted about an axis on the support, an element movable with the wheel as a functionally integral part thereof, a lever swingably mounted on the support including a spring urged pawl to engage and step up the wheel, a second lever mounted on the support including a spring urged dog to engage the ratchet wheel, a latch lever fulcrumed coaxially with the second lever and having a part resiliently held against the second lever normally to hold a dog portion on the latch lever free of the ratchet wheel teeth, the respective pawl and dog of the first two levers including interrelated portions whereby the pawl may act to step up the wheel without acting on the dog and when the second lever is swung to clear the ratchet wheel the portions act to free the pawl from the wheel, and separate actuating devices for the first two levers, the latch lever dog portion engaging and stopping the wheel when the second lever is actuated to free the pawl and its dog from the wheel.

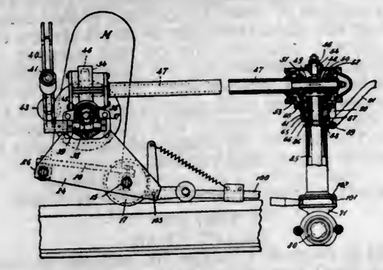
2,281,263

DRIVE TRANSMITTING MECHANISM

Wilhelm B. Bronander, Montclair, N. J.

Application April 12, 1941, Serial No. 388,203

5 Claims. (Cl. 74—411)



1. In combination, a drive shaft, a driven shaft, a member driven by said driven shaft, driving connections between said driven shaft and said member, a clutch for operatively connecting the drive shaft to the driven shaft, means including the driving connections between the driven shaft and member driven thereby for automatically and positively throwing out the clutch when the driven member encounters a predetermined resistance to rotation, and releasable means connected to the clutch for holding the clutch members in driving relation, said means including a lever, a rod, a member on said rod engaging the lever and an adjustable spring tension device on the rod engaging said lever engaging member.

2,281,264

GRATING ROTOR

Joseph C. Bruno, Binghamton, N. Y.

Application August 2, 1938, Serial No. 222,671

2 Claims. (Cl. 83—6)



1. In a rotor for grating machines, a plurality of circular plates having teeth on the peripheral edges thereof, means retaining said plates in related assembly to form a cylinder, said teeth being bent in such a manner as to overlie adjacent plates with respect to the plane of each of said plates and spaced with respect to adjacent teeth of adjacent plates to form a plurality of oppositely disposed helices beginning at the ends of said rotor and converging toward a midpoint thereof to guide the grated material toward said midpoint.

2,281,265

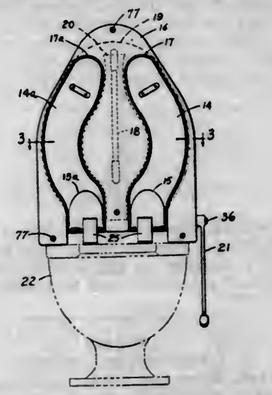
TOILET SEAT MECHANISM

Harris S. Campbell, Bryn Athyn, Pa.

Application November 18, 1940, Serial No. 366,079

21 Claims. (Cl. 4—251)

1. For a hinged toilet seat, mechanism for raising and lowering said seat including a support, a primary shaft upon which said seat is mounted, a secondary shaft, a depending pedal arm associated with said secondary shaft, means interconnecting said secondary shaft and said



hinge shaft for rotating said primary shaft upon movement of said pedal shaft, said means including mechanism providing for greater angular movement of said seat shaft than of said secondary shaft.

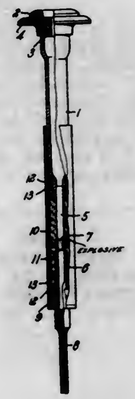
2,281,266

CIRCUIT INTERRUPTER

George L. Carlisle and Fred L. Kradel, Greensburg, Pa., assignors to Railway and Industrial Engineering Company, Greensburg, Pa., a corporation of Delaware

Application January 31, 1940, Serial No. 316,678

9 Claims. (Cl. 200—135)



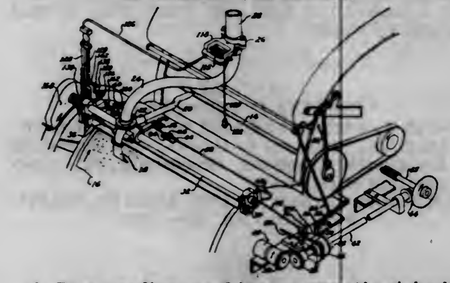
1. A circuit interrupter link which comprises a fragile shell, a powder charge within the shell, conductive members extending into the shell from the opposite ends thereof, means mechanically and electrically connecting said members to each other, said means comprising an electric resistance element connected to at least one of said conductive members by a telescope joint, the coacting elements of said telescope joint being secured together by crimping to provide a joint which will part when the fuse blows, and means associated with said conductive members respectively for connecting the link into a circuit.

2,281,267
EATING UTENSIL
Elton M. Chapman, Atlanta, Ga.
Application April 30, 1940, Serial No. 332,570
6 Claims. (Cl. 30—345)



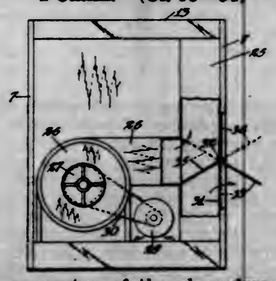
2. An eating utensil comprising a permanent portion having a handle and a food holding portion; and a coating on the food holding portion in the form of a layer of edible flavored material.

2,281,268
CARDING MACHINE
Ernest Clark, Brockton, Mass., assignor to Abington Textile Machinery Works, Boston, Mass., a trust of Massachusetts
Application November 2, 1940, Serial No. 364,075
14 Claims. (Cl. 19—100)



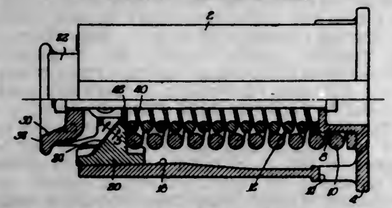
1. In a carding machine, pneumatic stripping mechanism including a nozzle, means for applying suction to the nozzle, traverse mechanism for the nozzle having means to limit traverse thereof, feed gearing adapted to be disconnected, means operated in relation to nozzle traverse to re-connect the feed gearing, and means for cutting off the nozzle suction after completion of the traverse.

2,281,269
CORN DRIER
Timothy J. Costello, St. Paul, Minn.
Application December 18, 1939, Serial No. 309,844
1 Claim. (Cl. 98—54)



Drying apparatus of the class described comprising, a drying chamber having openings in the top and bottom portions thereof, a conduit connected at its ends with the interior of said casing at said openings, means for setting up a flow of relatively dry air in said conduit including a blower having a dry air intake and having an outlet connected to said conduit intermediate its ends, said conduit having an opening opposite to the point of connection of said blower and leading to the outer atmosphere, and a flow control valve comprising a pivoted element having three radially disposed and equally spaced vanes and having its pivotal axis extending horizontally across the center of said conduit opening, said conduit opening and the length of said vanes being such as to close off one-half of said conduit opening and simultaneously to direct airflow from said blower into one end of said conduit only when said vanes are in one position, and said vanes being shiftable on their pivotal axis to open the closed half of said conduit opening and close the other half thereof and simultaneously to direct the flow of air from said blower only into the other end of said conduit.

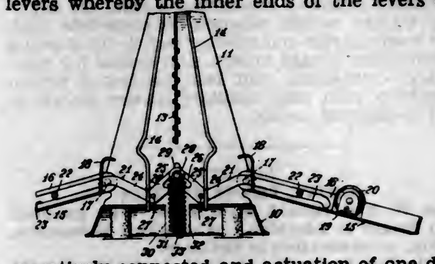
2,281,270
DRAFT GEAR
Robert B. Cottrell, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application May 24, 1940, Serial No. 337,013
27 Claims. (Cl. 213—32)



1. In a friction absorbing device, a housing having an oval open end with pairs of diametrically opposed tapering internal friction faces arranged respectively on the long and short diameters thereof, an inner compression spring, an outer compression spring, an inner spring cap, an outer spring cap, a wedge follower, and pairs of inner and outer friction shoes arranged in series between said spring caps and wedge follower and seated against said friction faces respectively with each inner shoe having diagonal face engagement with both outer shoes on spaced areas lying in diverging planes, said outer spring having abutment with said outer spring cap, said outer spring cap having diagonal face engagement with said inner shoes, said inner spring having abutment with said inner spring cap and said inner spring cap having means projecting through said outer spring cap for abutment with said outer shoes.

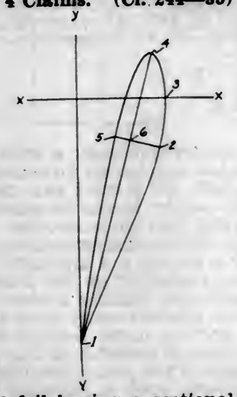
2,281,271
TOASTER
Frank J. Cullomer, Chicago, Ill., assignor of one-third to Erich O. Steudel, Chicago, Ill.
Application September 11, 1940, Serial No. 356,319
10 Claims. (Cl. 53—5)

2. In a toaster, a pair of opposed doors hingedly mounted at their lower ends to swing downwardly outward; lever members arranged in the toaster and pivotally mounted intermediate of their ends to move through vertical arcs, the outer ends of the levers having slot and pin connection with the doors; and resilient means immovably secured to the toaster and operatively associated with the inner ends of said levers whereby the inner ends of the levers are



operatively connected and actuation of one door induces simultaneous operation of both doors.

2,281,272
FLUID FOIL
David R. Davis, Los Angeles, Calif.
Application May 9, 1938, Serial No. 206,867
4 Claims. (Cl. 244—35)



1. A fluid foil having a sectional profile producible by modification of a sectional profile conforming substantially to the following formula, in which theta varies from zero to

$$\frac{\pi}{2} \text{ radians}$$

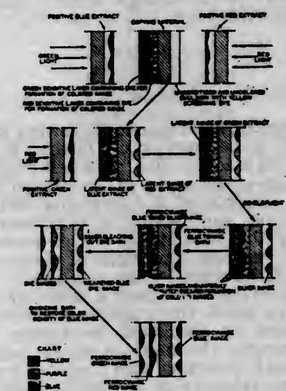
and the value of A is constant and equal to approximately one:

$$X_u = \sin\theta(4/\pi - 1)A + \tan\theta(1 - 2\theta/\pi)(1 - A)$$
$$Y_u = \cos\theta(4/\pi - 1)A - A(1 - 2\theta/\pi)$$
$$X_b = \sin\theta(4/\pi - 1)A + \tan\theta(1 - 2\theta/\pi)(1 - A)$$
$$Y_b = \cos\theta(4/\pi + 1)A - 3A(1 - 2\theta/\pi)$$

said modification consisting in multiplying all foil section ordinates of any camber line by a constant value whereby the foil thickness is increased or decreased depending on the value of the constant.

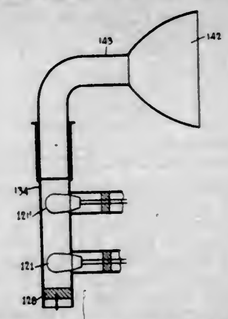
2,281,273
PHOTOGRAPHIC SUBTRACTIVE MULTI-COLOR PICTURE
John Eggert, Leipzig-Gohlis, and Werner Schultze, Dessau, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application January 10, 1939, Serial No. 250,162
In Germany January 11, 1938
3 Claims. (Cl. 95—2)

1. In a process for producing subtractive multi-color pictures by photographically copying color sensations of a picture on to a photographic multi-layer material comprising at least one silver halide emulsion layer colored with a dye used for the production of the finished picture by the silver bleaching out dye method and one uncolored silver halide emulsion layer, the improvement which consists in copying the images from the corresponding color sensations into the



colored and uncolored layers, developing and fixing the exposed material, forming a ferrocyanide blue image in said uncolored layer by blue toning and fixing said layer, treating the material in a silver bleaching out dye bath which alters the color of said ferrocyanide blue image and then in a bath containing an oxidizing agent which restores the original color density of said ferrocyanide blue image, and washing and drying the material.

2,281,274
ULTRA SHORT WAVE RADIATOR
Walter Dallenbach, Berlin-Charlottenburg, Ernst Wilckens, Berlin-Sudende, and Wolfgang Pupp, Berlin-Kopenick, Germany
Application July 12, 1938, Serial No. 218,752
In Germany March 25, 1936
13 Claims. (Cl. 250—11)



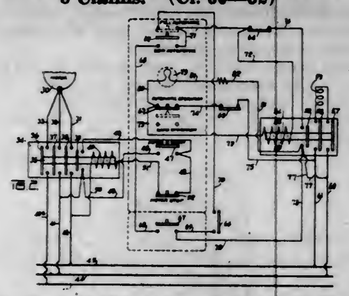
1. Apparatus for the directional transmission and reception of ultra high frequency electromagnetic waves comprising a transmitter, a receiver and an antenna comprising at least one conducting surface and serving directly as transmitting and receiving antenna for said transmitter and receiver, a conducting tube coupling the antenna to the transmitter and the receiver, said transmitter and receiver being placed within this conducting tube.

2,281,275
HEMMER ATTACHMENT FOR SEWING MACHINES
John P. Enos, Elizabeth, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application March 5, 1940, Serial No. 322,268
4 Claims. (Cl. 112—141)



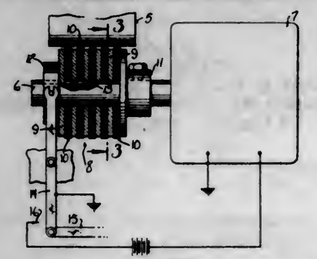
4. A hemming attachment for sewing machines comprising, a hemmer-scroll having a spiraled work-turning leading edge, means for supporting said hemmer-scroll, and a gauge located adjacent to and in advance of the receiving end of said hemmer-scroll and having a C-shaped fabric-passageway the capacity of which exceeds that required for normal conditions of work-handling but which is adequate when completely filled to deliver to said hemmer-scroll a sufficient quantity of fabric to offset the unfolding action of the fabric caused by abnormal thicknesses thereof passing through the hemmer-scroll, said gauge having a work-directing edge disposed a substantial distance laterally to one side of and beyond the spiraled work-turning leading edge of said hemmer-scroll against which work-directing edge the fabric is manually shifted when traversing abnormal thicknesses of fabric.

2,281,276
ELECTRICAL CONTROL SYSTEM FOR PRESSES
Walter Ernst, Mount Gilead, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del., a corporation of Delaware
Application August 31, 1939, Serial No. 292,931
8 Claims. (Cl. 60—52)



1. In a hydraulic press control system, the combination with a reversible hydraulic motor means having a reciprocable ram and a source of pressure fluid therefor with a flow-control member for reversibly controlling the distribution of pressure fluid to said hydraulic motor means, of an electric circuit comprising means including an electrical device for selectively shifting said flow-control member to ram-advancing and retracting positions, limit switch means for automatically altering the energization of said electrical device for initiating a retraction stroke of said ram at the end of a ram-advancing stroke, means for automatically re-altering the energization of said electrical device at the end of a retraction stroke for effecting an immediately repeated advancing stroke, a combined main starter and selector switch for effecting energization of said circuit and for selecting said immediately repeated advancing stroke, an auxiliary starter switch adapted to cooperate with said main starter and selector switch for starting energization of said circuit, and means for electrically connecting said last mentioned switch selectively with said auxiliary starter switch or said re-altering means.

2,281,277
DRIVE TRANSMISSION
John W. Fitz Gerald, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Application December 30, 1940, Serial No. 372,279
2 Claims. (Cl. 74—214)

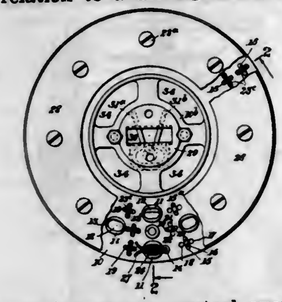


1. In a drive transmission: a pulley rotatable about a fixed axis and having an annular surface; a shaft rotatable on a fixed axis parallel with the axis of the pulley; means for selectively drivingly connecting and disconnecting said pulley and the shaft, said means comprising a shoulder on the shaft; a plurality of alternate rubber and metal washers assembled on the shaft with one end of the assembly bearing against the shoulder, the rubber washers being loose with respect to the shaft and the metal washers being keyed thereto, said washer assembly being opposite the annular surface of the pulley, the metal washers having a diameter such as to leave substantial clearance between them and the annular surface of the pulley and the rubber washers having a normal free diameter at least as great as the metal washers but insufficient to contact the annular surface of the pulley; and means for controlling the diameter of said rubber washers regardless of rotation of the shaft, said last named means including a part movable longitudinally of the shaft toward the shoulder thereon to place said assembly of washers under axial compression and thereby expand the rubber washers radially into driving engagement with the annular surface of the pulley, said part being movable away from said shoulder to relieve the rubber washers of axial compressive and peripheral torsional forces.

2,281,278
SCARIFICATOR
Walter S. Finnell, Elkhart, Ind., assignor to Finnell System, Inc., a corporation of Indiana
Application July 29, 1939, Serial No. 287,331
17 Claims. (Cl. 15—93)

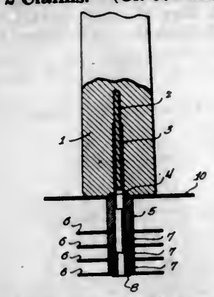
1. A scarificator including a disc having a plurality of openings therethrough, said openings being grouped in pairs, upstanding members rigidly supported on said disc, each in definite relation to a pair of openings, scarifier elements having U-shaped apexes supported on the upper ends of said members, a removable member overlying all said elements and maintaining said apexes in rigid engagement with said members,

and means on said disc for securing the same in driven relation to a driving shaft, said remov-



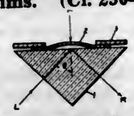
able member having a central aperture therethrough clearing said driving shaft.

2,281,279
CANDLE CONSTRUCTION
David A. Fox, Milwaukee, Wis.
Application February 19, 1940, Serial No. 319,574
2 Claims. (Cl. 67—23)



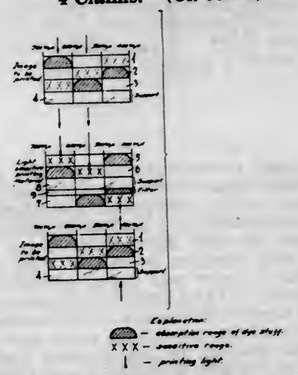
2. In a candle capable of accommodation to candle-stick sockets of varying sizes, the combination comprising a candle body having a centrally disposed wick, a tubular metallic spindle firmly held within said candle body surrounding said wick and extending beyond the bottom of said candle, and a plurality of alternate spacers and radially slit resilient disks having outwardly extending portions secured at their centers to the portion of said spindle exterior to said candle body.

2,281,280
LIGHT RELAY
Dennis Gabor, Rugby, England, assignor to General Electric Company, a corporation of New York
Application May 10, 1940, Serial No. 334,441
In Great Britain May 24, 1939
8 Claims. (Cl. 250—164)



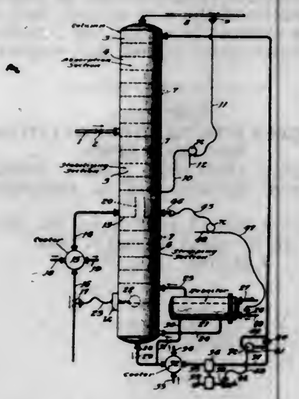
1. Apparatus for controlling light radiations of a given type in accordance with radiations of a second type comprising a base member which is transparent to the first-named radiations and adapted to reflect such radiations by internal reflection at a particular surface of the member, a unitary, thermally expansible film positioned normally in optical contact with the said surface and having a portion the spacing of which with respect to the surface varies in accordance with the degree of thermal expansion of the film, said film being of diffusive character with respect to said first-named radiations and being absorptive with respect to radiations of said second type, and means for directing radiations of the second type against the said film to vary its thermal expansion by the heat generated through absorption of such radiations and by thus changing the spacing of the said portion with respect to the base member to modify the reflectivity of the latter with respect to said first-named radiations.

2,281,281
PROCESS FOR PRODUCING COLOR PHOTOGRAPHS
Bela Gaspar, Hollywood, Calif., assignor to Chromogen, Incorporated, a corporation of Nevada
Application July 12, 1939, Serial No. 284,105
In Germany August 5, 1938
4 Claims. (Cl. 95—2)



1. A process for producing three-color pictures which comprises exposing a silver halide multilayer exposure film to the colored object, said multilayer film having a blue-sensitive front layer, a green-sensitive middle layer and a yellow dye in said middle layer, a red-sensitive rear layer and a magenta dye therein, developing said multilayer film, producing a yellow record of the green color separation and a magenta record of the red color separation of the object by local dye destruction within the predyed layers, converting the silver image within the front layer into a blue-green record of the blue color separation, printing the blue-green record of the blue color separation and one of the other records carried by said multilayer film from the one side, and printing the third record carried by said multilayer film from the opposite side onto a three-layer printing material without separating said layers, said three-layer printing material being one which has three predyed light-sensitive layers in superposition on a single support and which comprises in each of said layers a dye chiefly absorbing one-third of the visible spectrum and adequately transmitting the other two-thirds and which is capable of being locally destroyed in the presence of metallic silver, each of said layers being sensitized for light of such third of the spectrum as is transmitted by the dye present in the colored layer and not recorded in the identically colored layer of the exposure film but being essentially insensitive for differently colored light, developing the film and converting the silver images into dye-images by local dye destruction.

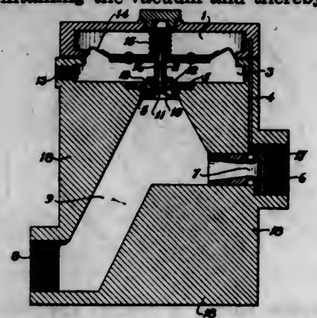
2,281,282
TREATMENT OF HYDROCARBONS
Clarence G. Gerhold, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application August 18, 1939, Serial No. 290,826
4 Claims. (Cl. 196—8)



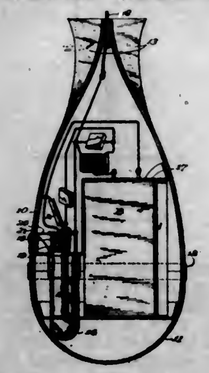
1. A process for separating normally gaseous and normally liquid hydrocarbons from a mixture thereof which comprises introducing the mixture to a column at a point a substantial distance below the top thereof, scrubbing vapors and gases with absorber oil in the upper portion of the column above said point, permitting enriched absorber oil and liquid components of said mixture to descend through an intermediate portion of the column below said point and in this intermediate portion of the column stabilizing the liquid to remove dissolved gases therefrom, removing a portion of the thus stabilized liquid from said intermediate portion of the column and passing the remainder thereof downwardly through the lower portion of the column wherein it is stripped of lighter components by countercurrent contact with ascending vapors formed as hereinafter set forth, reboiling the thus stripped remainder of said stabilized liquid by heat exchange with a heating medium and passing resultant vaporized portions thereof upwardly through the lower portion of the column as said ascending vapors, controlling the supply of heating medium to the reboiling step in response to temperature variations at a point in said intermediate portion of the column adjacent the point of withdrawal of said portion of the stabilized liquid therefrom, and supplying at least a portion of the reboiled liquid to the upper portion of the column as said absorber oil.

2,281,283
VAPOR SEPARATOR
William E. Haast, Miami, Fla.
Application July 15, 1941, Serial No. 402,501
11 Claims. (Cl. 137—69)

1. A device of the type described including a fuel line, an exhaust valve located in said line, vacuum operated means for controlling said valve, a passage extending from the fuel line to said vacuum operated means and adapted to permit any vapor occurring in the fuel line to flow freely into said vacuum operated means for breaking the vacuum and thereby opening said exhaust valve, and a restriction in said passage for impeding the flow of liquid through said passage for maintaining the vacuum and thereby retaining said exhaust valve closed in the absence of vapors in the fuel line.



2,281,284
ALTITUDE DETERMINING MEANS AND METHOD
Laurens Hammond, Chicago, Ill.
Application May 20, 1937, Serial No. 143,696
10 Claims. (Cl. 250—1)

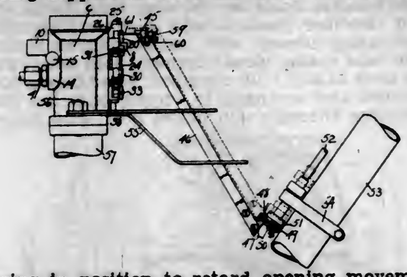


1. The method of determining the altitude of a body in flight which comprises rendering operative a radio frequency oscillation generator which is sufficiently frangible to be rendered inoperative when subjected to slight shock, detecting the oscillations produced by the generator by means of a radio receiver carried by the body in flight, dropping the generator from the body the altitude of which is to be determined, noting the duration of time during which the generator oscillates from the instant it is dropped from the body to the time it strikes the ground and is thereby rendered inoperative, and from said time of fall determining the altitude of the body.

2,281,285
CARBURETOR
Grant Hammond, West Haven, Conn., assignor to The Hammond Company, New Haven, Conn., a corporation of Connecticut
Application February 12, 1940, Serial No. 318,434
11 Claims. (Cl. 74—472)

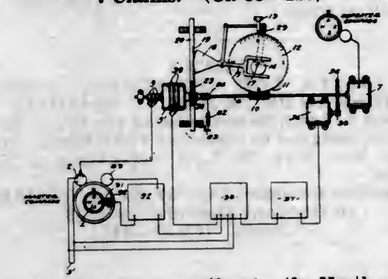
1. A carburetor including a shell having an air inlet opening to an air passage therein, an air valve positioned across said passage and unimpededly movable under the influence of air currents in said passage, a movably mounted spring support, a spring mounted on said support, a change

speed gear shifting member, and a connection between said gear shifting member and said spring support to move the latter to locate said



spring in position to retard opening movement of said valve when said gear shifting member is operated to effect a predetermined rate of speed.

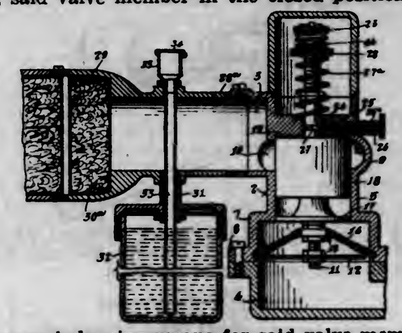
2,281,286
CORRECTION DEVICE FOR GYROSCOPIC COMPASSES AND THE LIKE
William G. Harding, Whitton, and Robert H. Nisbet, Osterley, England, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Original application May 5, 1938, Serial No. 206,208. Divided and this application October 19, 1939, Serial No. 300,182. In Great Britain May 7, 1937
7 Claims. (Cl. 33—126)



1. A system for correcting for the North steaming and other errors of a gyro compass at a repeater compass comprising a master compass, a variable controller for retransmitting signals received from a transmitter at the master compass proportional to the deviation thereof, a motor positioned by the signals transmitted by said controller, a relay transmitter directly actuated by said motor, a repeater compass at a remote position from the master compass, controlled from said relay transmitter, an error correction device actuated by said motor, differentially controlled means for positioning said variable controller through said correction device and through direct operation of said motor to obtain a corrective signal from the controller for said motor and thereby correct the directly actuated relay transmitter and the repeater compass controlled therefrom so that the repeater compass gives a directional indication free of error.

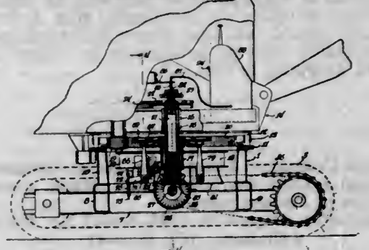
2,281,287
MANIFOLD VENT CONTROL
Walter R. Hearn, George J. Snook, and Albert J. Challeen, Los Angeles, Calif., assignors of forty-two and one-half per cent to said Hearn, forty-two and one-half per cent to said Snook, and fifteen per cent to said Challeen
Application September 27, 1938, Serial No. 231,920
15 Claims. (Cl. 123—124)

1. A manifold vent control, comprising a valve chamber having an air inlet and an outlet, a normally closed valve member within said valve chamber operable to open position by vacuum within said outlet, means yieldingly maintaining said valve member in the closed position, a



vacuum balancing means for said valve member having restricted communication with said outlet, and baffle means for said valve member operable for retaining the valve member in open position by the flow of air to said outlet.

2,281,288
BRAKING SYSTEM
Henry C. Hettelsater, Milwaukee, Wis., assignor to Harnischfeger Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application February 6, 1941, Serial No. 377,644
13 Claims. (Cl. 180—9.2)



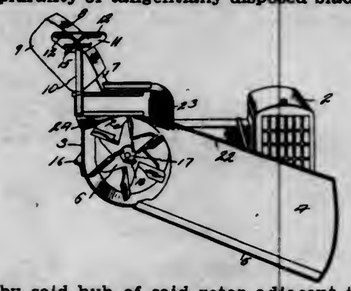
13. In an excavator having a track type tractor tread car body and a rotatable control and driving cab mounted thereon, the combination comprising driving and steering means for said treads, and hydraulic means independent of said driving and steering means controllable from within said cab through an hydraulic conduit a portion of which is in substantial alignment with the axis of rotation of said cab for fixing said treads against movement in either direction when said excavator is digging.

2,281,289
SNOWPLOW
Walter Hewitt, Longmire, Wash., assignor of one-half to Marlow Glenn, Washington, D. C.
Application December 29, 1939, Serial No. 311,697
3 Claims. (Cl. 37—43)

1. The combination with a snow plow comprising a rotor casing, a rotor within said casing, an upwardly extending discharge spout carried by said casing, of a channel shaped pivoted reversible discharge chute above said spout and into either end of which one end of the spout extends, said pivotal point of said chute being laterally shiftable.

3. The combination with a snow plow bladed

rotor disposed within a casing and having a hub, of a plurality of tangentially disposed blades car-



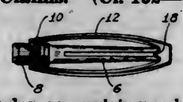
ried by said hub of said rotor adjacent its axis and tangential to a circle between the axis of the hub and the periphery of the hub.

2,281,290
KNOTTER
Frank William Higgins, Cranston, R. I.
Application December 6, 1940, Serial No. 368,823
8 Claims. (Cl. 289—5)



1. A knotter of the type including a revolving bill and thread guides cooperating therewith, in combination with parts at one side of said bill relatively movable to yieldingly grip a thread engaged by the bill, and screw threaded means for relatively moving said parts to adjust their thread gripping action.

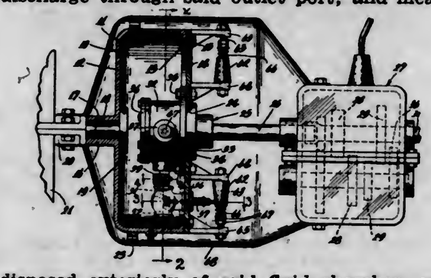
2,281,291
HAIR CURLER
Crofton C. Holden, Leominster, Mass., assignor to Tilton & Cook Co., Leominster, Mass., a corporation of Massachusetts
Application August 12, 1941, Serial No. 406,447
6 Claims. (Cl. 132—41)



1. A hair curler comprising a bifurcated hair-winding member of plastic material and having a head with an elongated aperture therethrough, and a one-piece resilient loop of plastic material having a pivot arm received in the aperture, the ends of the winding member and loop having cooperating locking portions.

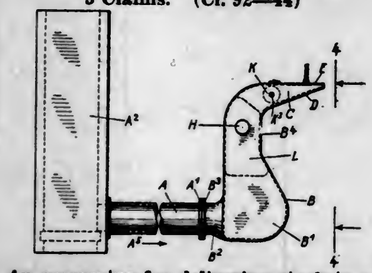
2,281,292
COUPLING MEANS
Arthur L. Hoover, Avery, Milan Township, Erie County, Ohio
Application May 24, 1940, Serial No. 336,992
6 Claims. (Cl. 192—61)

1. Coupling means, for coupling a driving shaft and a driven shaft, comprising: means forming a fluid chamber; fluid in said chamber; fluid pump means, including casing means and rotor means, said casing means having inlet and outlet ports, and being connected for rotation with one of the shafts, and said rotor means being connected for rotation with the other of the shafts, so that relative rotation of said driving and driven shafts causes relative rotation between said casing means and said rotor means, such relative rotation drawing fluid from said fluid chamber through said inlet port and into said casing means, and discharging such fluid from said casing means through said outlet port and back to said fluid chamber; valve means constructed and arranged to control only the fluid discharge through said outlet port; and means,



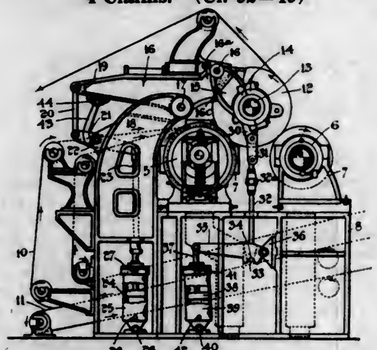
disposed exteriorly of said fluid chamber, constructed and arranged to move said valve means toward closed position restricting fluid discharge through said outlet port when the driving shaft is rotating at a predetermined speed, such restricting of fluid discharge providing opposition to the relative movement between said casing means and said rotor means and causing transmission of movement from the driving shaft to the driven shaft.

2,281,293
APPARATUS FOR DELIVERING PAPER STOCK TO PAPER MAKING MACHINES
Richard T. Lang, Heidenheim on the Brenz, Germany, assignor to American Voith Contact Co. Inc., New York, N. Y., a corporation of New York
Application December 15, 1937, Serial No. 179,881
In Germany December 19, 1936
5 Claims. (Cl. 92—44)



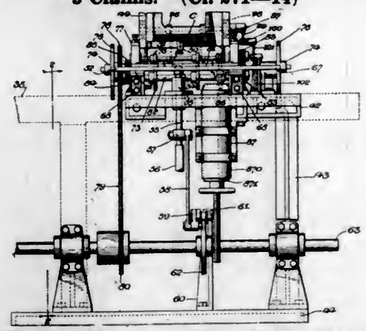
1. An apparatus for delivering stock to a high speed paper making machine, comprising a vertically disposed container having a lower and an upper portion, and having a stock inlet at said lower portion at the rear of the container and a stock outlet at its upper end, a stock supply pipe, for supplying stock to said inlet, a stock delivery nozzle for said outlet, said lower portion being formed with a curved wall, at the front of the container, disposed in line with and opposite to said inlet for deflecting the stock in an upward direction, and said upper portion having unimpeded communication with the lower portion and having substantially the same cross-sectional area throughout its length, said area being smaller than the cross-sectional area of the lower portion which varies with the curvature of said curved wall.

2,281,294
PRESS FOR PAPER MAKING MACHINES
Bernard Abbott Malkin, Lachine, Quebec, Canada, assignor to Dominion Engineering Works Limited, Lachine, Quebec, Canada
Application June 20, 1940, Serial No. 341,514
4 Claims. (Cl. 92—49)



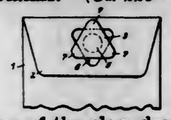
1. A press for paper making machines comprising a top press roll and two bottom press rolls arranged in triangular formation, pressure applying means acting against the top roll to give an evenly distributed line pressure between both nips and a second pressure applying means also arranged to act against the top roll to give an additional nip pressure between the top roll and the second bottom roll so that this nip pressure is greater than the nip pressure between the top roll and the first bottom roll, said first mentioned pressure applying means comprising a cylinder, a piston working in said cylinder and a pressure transmitting connection through which downward pressure on said piston is transmitted to the top press roll so that the line of action of the pressure thus transmitted is along the projection of a line through the center of the top roll midway between the centers of the two bottom rolls and perpendicular to a line joining the two last mentioned centers.

2,281,295
BLANK FEEDING MECHANISM
Wilmer C. Nicodemus and Hugo D. Brown, Barberton, Ohio, assignors to The Diamond Match Company, New York, N. Y., a corporation of Delaware
Original application December 21, 1940, Serial No. 371,088. Divided and this application May 13, 1941, Serial No. 393,194
3 Claims. (Cl. 271—14)



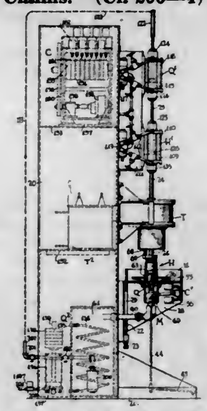
1. The combination with a blank support, of cooperatively arranged primary and secondary means for feeding blanks flatwise in succession to said support, said primary feeder including an elongated pusher longitudinally reciprocative toward and from the said support and having an abutment between which and the forward end of the pusher a blank is imposed when the pusher is in retracted position, the distance between said abutment and the forward end of the pusher exceeding the width of a blank, and the secondary feeder including feed rolls rearwardly spaced from the said support and constructed to receive the leading end of each blank as it is initially advanced by the pusher, guide means in and between which said blank is fed by the feed rolls so that when the pusher is at the limit of its forward stroke the blank is clear of said rolls and is supported throughout its length upon the forward portion of the pusher, and back stop means for engaging the trailing edge of the blank as said edge escapes the bite of the feed rolls.

2,281,296
ENVELOPE
Werner Rodiger, Berlin, Germany
Application October 24, 1938, Serial No. 236,690
In Germany October 28, 1937
6 Claims. (Cl. 229—77)



1. An envelope of the class described, comprising a body, a closing flap and a substantially non-circular fastening member provided within the central portion of said flap, said fastening member being substantially completely separated from the flap by cuts provided all around the fastening member, cohering with the flap through a few tiny connecting pieces only adapted for ready tearing and complete separation of the fastening member from the flap along predetermined contours, and being gummed on the inner side of the flap, the gummed area being confined to a circle which is substantially smaller than the largest circle that can be inscribed in the contours of the substantially non-circular fastening member.

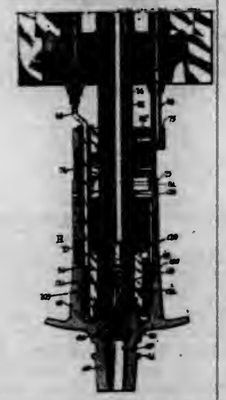
2,281,297
INDUCTION HEAT TREATING APPARATUS
Howard E. Somes, Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan
Application August 17, 1936, Serial No. 96,346
25 Claims. (Cl. 266—4)



1. Apparatus for heat treating hollow objects

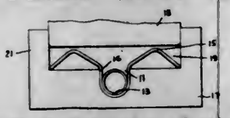
from the inside, comprising a heating unit and a quenching unit, and a support for slidably mounting said heating unit for movement into and out of the hollow object the quenching unit being slidable within the heating unit for relative movement into and out of the hollow of the object to be heat treated, together with means carried by the quenching unit arranged to engage the work and space the quenching unit with respect to the work.

2,281,298
INDUCTION HEAT TREATING APPARATUS
Howard E. Somes, Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan
Original application August 17, 1936, Serial No. 96,346. Divided and this application July 1, 1941, Serial No. 406,623
18 Claims. (Cl. 219—13)



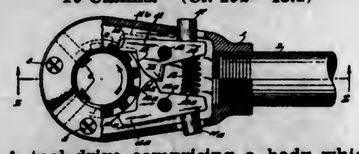
1. Apparatus for heat treating hollow objects from the inside by electric inductive heating comprising a central pilot member arranged to be extended into the hollow of the object to be heat treated and positioned in fixed relation therewith and an inductive heating coil mounted around and adapted to slide along said pilot member into operative relation with the interior of said hollow object.

2,281,299
METHOD OF MAKING HEAT EXCHANGERS
Christian Steenstrup, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application August 14, 1941, Serial No. 406,753
4 Claims. (Cl. 113—118)



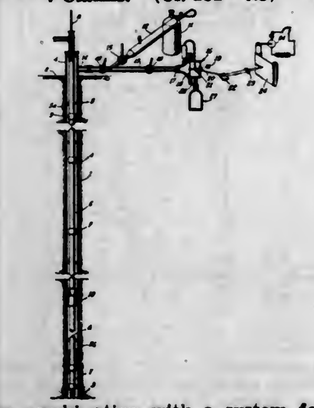
1. The method of forming a heat exchange element comprising the steps of forming a sheet of relatively good heat conducting material with a longitudinally extending groove, bending said sheet to form a longitudinally extending upstanding ridge or corrugation on each side of said groove, interposing a pre-formed section of tubing in said groove, and acting on said sheet to flatten out said ridge portion of said sheet and to force said sheet around the tube while confining the edges of said sheet against outward lateral movement.

2,281,300
TOOL DRIVE
John E. Waldo, Bridgeport, Conn., assignor to Armstrong Manufacturing Co., Bridgeport, Conn., a corporation of Connecticut
Application December 11, 1940, Serial No. 369,525
10 Claims. (Cl. 192—43.1)



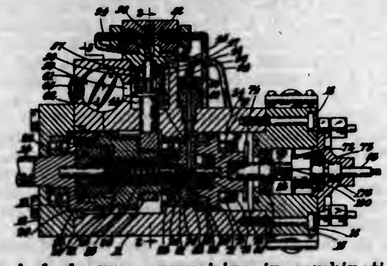
1. A tool-drive comprising a body which has a socket, a turnable member turnably mounted in said socket so that the body can be turned relative to said turnable member, said turnable member having lateral teeth, a pair of pawls, each pawl being movably connected to said body, each pawl being movable to an operative position in which said pawl contacts with said teeth to turn said turnable member in unison with said body only when the body is turned in a predetermined direction, resilient means adapted to urge each said pawl to its respective operative position, each said pawl being movable relative to the turnable member so that the pawl slips over said teeth when said pawl is in operative position and when the body is turned in a direction reverse to said predetermined direction so that the body is then turned relative to said turnable member, each said pawl being movable to an inoperative position in which said pawl is held spaced from said teeth, said pawls having adjacent stop walls which contact with each other when one pawl is in operative position and the other pawl is in inoperative position, said stop walls being shaped so that the stop wall of the pawl which is in operative position holds the other pawl in inoperative position, both said pawls being movable to respective inoperative positions, the direction in which the turnable member is turned in unison with said body when one of said pawls is in operative position, being reverse to the direction in which said turnable member is turned in unison with the body when the other pawl is in operative position.

2,281,301
MEANS FOR DETERMINING THE LOCATION OF OBSTRUCTIONS IN WELLS
Cranford P. Walker, San Marino, Calif.
Application November 14, 1940, Serial No. 365,603
7 Claims. (Cl. 181—0.5)



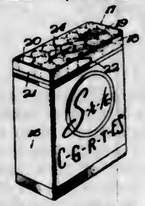
1. The combination with a system for determining the location of obstructions in a well by the registration of echoes from the obstructions of a pressure impulse introduced into the well, which includes a pipe extending from and communicating with the well to define an enclosed path for pressure wave echoes, and echo registering means communicating with said pipe for receiving and registering the echoes; of a means for causing said registering means to register echoes, occurring at a given frequency, distinctly from other echoes comprising means associated with said pipe for providing a zone in said path of small cross sectional area opening into another zone of larger cross sectional area, the cross sectional area and length of said first named zone and the volume of said last named zone being so selected relative to each other as to produce acoustical oscillations of a frequency equal to or a multiple of said given frequency to amplify echoes of said given frequency.

2,281,302
FUEL AND LIKE PUMP
George Amery, Oldbury, England
Original application August 15, 1938, Serial No. 225,025. Divided and this application February 23, 1940, Serial No. 320,375. In Great Britain August 25, 1937
2 Claims. (Cl. 103—220)



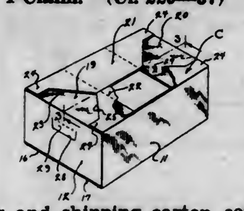
1. A fuel pump comprising in combination a pump-plunger, a barrel therefor, a delivery port for the barrel, an inlet passage to the pump-barrel, a filter spanning said inlet passage and a plunger-operating ram of greater diameter than the pump-plunger and operatively connected thereto so as to actuate the same, said plunger-operating ram working in a space forming part of said inlet passage which is on the delivery side of the filter and is in free and open communication with said filter so as to displace liquid therein backwardly through the filter without producing any substantial pressure on the ram at the same time as the pump-plunger is delivering fuel through the delivery port.

2,281,303
CONTAINER
Wilfred R. Fox, Flint, Mich.
Application March 2, 1940, Serial No. 321,924
3 Claims. (Cl. 229—51)



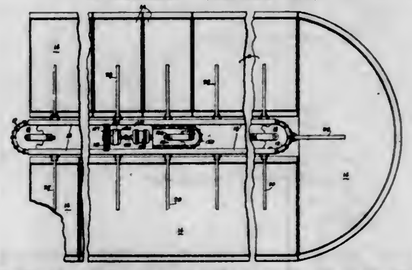
1. A container including a pliable plastic container-body embodying a single blank fashioned to provide a lip at one end of the body and flaps at the opposite end of the body capable of being folded for closing the body after being filled, and a plastic cap moulded as a preformed imperforate unit to mate with the body and shaped to fit over said lip united therewith by the application of heat, said cap including a side wall having spaced guide grooves indented therein to define an intervening tear band terminating at one end in a tab free to be grasped for manually tearing out said band.

2,281,304
PACKING AND SHIPPING CARTON
Joseph Louis Gillian, Milwaukee, Wis., assignor to Hummel & Downing Company, Milwaukee, Wis.
Application June 15, 1940, Serial No. 340,730
1 Claim. (Cl. 229—37)



A packing and shipping carton comprising a body including end walls and side walls, rectangular imperforate top end wall flaps formed on the end walls and foldable in over the body with their opposed free edges in spaced relation, longitudinally extending imperforate main cover flaps formed on the side walls and foldable in over the top of the body on the top end wall flaps, said main cover flaps extending the full length of the side walls and having end reinforcing corner tabs and truncated tapering extensions, the inner edges of the extensions meeting at the longitudinal center of the carton when the main flaps are folded down, a means adhesively securing the corner tabs and the inner faces of the cover flaps along the inclined edges to the top end wall flaps, the tabs and the inclined edges of the extensions forming notches in said main flaps to expose the end wall flaps partly to view.

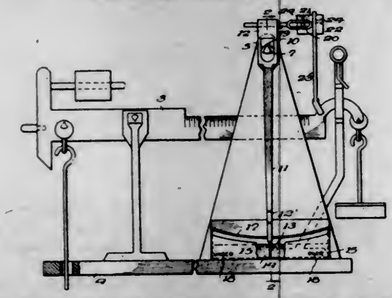
2,281,305
CONVEYER DRIVE FOR PROCESSING MACHINES
Albert H. Hannon, Springfield, Ohio
Application December 6, 1940, Serial No. 368,902
5 Claims. (Cl. 214—17)



1. In combination, a frame, tanks arranged adjacent the side of said frame, a horizontally arranged endless intermittently driven chain on said frame, arms pivoted on said endless chain, a continuously driven second endless chain hori-

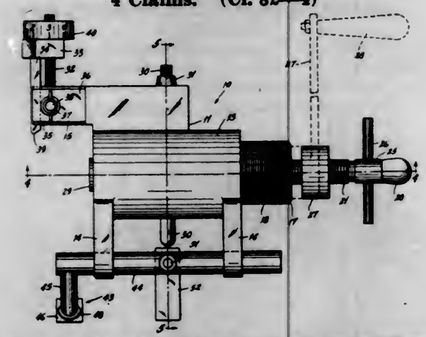
zontally arranged on said frame, having means thereon for driving said first chain intermittently, a plurality of lifter means for pivoting said arms about their pivots, mechanism for operating said lifter means, common means for continuously driving said mechanism and said second mentioned chain, said lifter means being adapted to successively engage said pivoted arms and move the same about their pivots to raise and lower articles supported by said arms out of and into said tanks, the mechanism being so constructed as to cause pivoting of said arms during the time the intermittently driven chain is stationary.

2,281,306
WEIGHT ATTACHMENT FOR PLATFORM BEAM SCALES
Charles M. Jeffers, St. Joseph, Mo.
Application September 21, 1940, Serial No. 357,806
2 Claims. (Cl. 265—58)



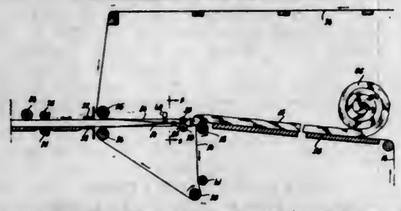
1. In combination with a platform scale beam, a liquid container arranged in proximity to the beam, a lid overhanging the container, an indicating pointer one end of which is operatively connected to the beam, the opposite end being engageable in said liquid, the free end of the pointer being offset to pass around the container lid to position the fluid engaging portion thereof for movement in the same plane as that in which the body portion of the pointer moves.

2,281,307
TOOL
Ernest L. Johnson, Ferguson, Mo.
Application June 3, 1940, Serial No. 338,491
4 Claims. (Cl. 82—4)



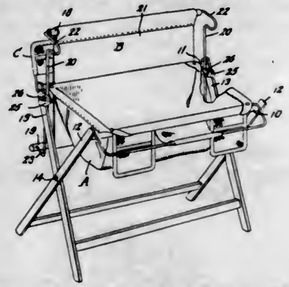
1. A lathe comprising a casting including a base and a split cylindrical body portion, a threaded cylinder disposed within the cylindrical portion, means releasably closing the split cylindrical body into engagement with the cylinder, means for rotating the cylinder to effect longitudinal movement thereof through the cylindrical body, means for maintaining a commutator in engagement with the cylinder for rotation therewith, and adjustable stationary means disposed to turn down the commutator during the rotation of the cylinder.

2,281,308
MECHANISM FOR THE MANUFACTURE OF COMFORTABLES, QUILTS, AND THE LIKE
James Reid Johnson, New London, Conn.
Application January 15, 1941, Serial No. 374,424
8 Claims. (Cl. 112—117)



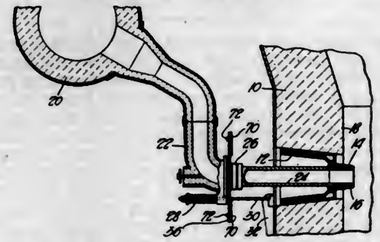
1. In mechanism for manufacturing comfortables, quilts and the like, the combination of three separate sources of automatic, continuous supply of textile top sheet, bottom sheet and sheet bat, respectively, automatic means for causing sheet bat to be deposited on the wrong face of the bottom sheet to travel with it preliminarily, automatic means for causing said bottom sheet to be deflected away from the sheet bat and then looped back with its faces reversed, automatic means for bringing the outside edges of the top and bottom sheets into registration with each other, automatic means for sewing the registering edges with outside seams forming a long, flat tube, automatic means for turning the tube right side out, retracting it and simultaneously drawing the sheet bat into it, automatic means for smoothing the bat filled tube laterally each way from its longitudinal center, the top and bottom sheets, sheet bat and tube all moving at a uniform and continuous rate of speed, whereby a long, flat bat-filled, smoothed tube with inside edge seams is produced automatically and continuously.

2,281,309
INFANT'S BATHING DEVICE
Dewey M. Kennedy, Rochester, N. Y.
Application December 19, 1940, Serial No. 370,742
8 Claims. (Cl. 311—2)



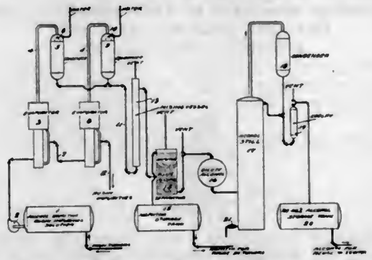
8. In an infant's bathing device of the type which includes a dressing table having a transversely extending arm at each end and a support including legs at each end thereof, means carried by the legs providing a bearing and a guide with which the side arms of the dressing table slidably engage to permit of the movement of the dressing table from an active horizontal position upon the support to an inactive position suspended at its upper end in depending relation from the rear of the support, and elements carried by said arms at the overbalancing longitudinal center of the dressing table for limiting the downward movement of the dressing table at the rear of the support by engagement of said elements with said means during the movement of the dressing table from the active to another inactive position in which the dressing table is supported with the upper portion thereof disposed above the support and in position to be drawn forwardly to the active position.

2,281,310
TUYÈRE SHIELD
Truman H. Kennedy, McKeesport, Pa., assignor to National Tube Company, a corporation of New Jersey
Application July 25, 1941, Serial No. 404,086
6 Claims. (Cl. 266—41)



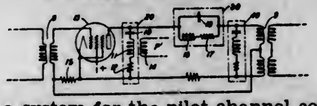
1. In a blast furnace, the combination with the penstock, blow pipe and tuyère thereof, of a shield comprising two coacting notched plates hingedly mounted between the penstock and the tuyère and surrounding the blow pipe.

2,281,311
METHOD FOR RECOVERING ALCOHOL FROM ALCOHOLIC MIXTURES
Ismond E. Knapp, Robert E. Price and Herman A. Brondum, Picayune, Miss., assignors to Crosby Naval Stores, Incorporated, Picayune, Miss., a corporation of Mississippi
Application April 6, 1940, Serial No. 328,386
6 Claims. (Cl. 202—60)



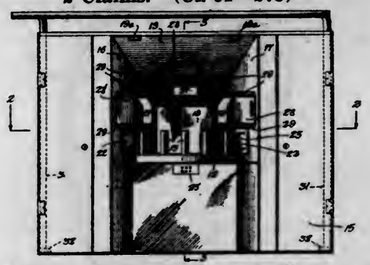
1. A process for separating and recovering substantially pure ethyl alcohol of 93–95% strength from a mixture of ethyl alcohol, water and naphtha which comprises distilling the mixture, contacting the alcohol-naphtha vapors with water, collecting and settling the resulting diluted alcohol-naptha condensate to form layers, separating the layer of substantially pure naphtha, distilling the ethyl alcohol-water layer, and recovering substantially pure 93–95% ethyl alcohol.

2,281,312
WAVE TRANSLATION
Henry K. Krist, Mountain Lakes, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 25, 1941, Serial No. 380,423
7 Claims. (Cl. 178—44)



1. In a system for the pilot channel control of repeater gain, a repeater amplifier of the negative feedback type, means for applying signal and pilot currents to said amplifier for through transmission with substantially equal gain, means at a point in the mu circuit of said amplifier for diverting pilot current therefrom, and means in said mu circuit following said point introducing many times greater relative transmission loss for said pilot current than for said signal current.

2,281,313
DUST COLLECTING DEVICE
Frank A. Kumnick, Bridgeport, Conn.
Application April 23, 1940, Serial No. 331,175
2 Claims. (Cl. 51—273)

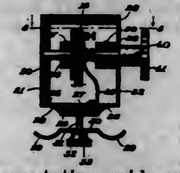


1. The combination with a buffing machine or the like having a turntable provided with a plurality of work-carrying means and one or more work stations having means operating on the work carried by the means, of a dust collector comprising a plurality of walls surrounding the machine and extending from above the machine to the floor supporting the machine and a cover connecting the upper ends of the wall to form a chamber substantially enclosing the machine, one of the walls of said chamber being disposed in front of the machine and having a part thereof extending inwardly over the turntable and forming a reentrant chamber to provide an operator's station in which the operator has access to the work-carrying means on the turntable to supply and remove work therefrom, said walls protecting the operator from the dust and dirt from the machine and having a closure therein movable to an open position wherein the work at the work stations can be viewed by the operator; and common means connected to an exhaust means for removing the dust-laden air and heavy dirt from the floor of said chamber.

2,281,314
SWITCH
John Kurilla, Berwick, Pa.
Application May 26, 1941, Serial No. 395,256
3 Claims. (Cl. 200—52)

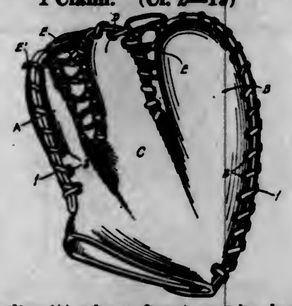
1. A switch of the type described comprising a support, normally spaced contacts, a rotary screw carried by said support, abutments on said

screw, a plate threadedly connected with said screw and located between said abutments, one of said contacts being arranged in the path of said plate, spring means acting on said plate to urge the latter against one of said abutments,



and means for rotating said screw to move the plate against said one contact to move the latter into engagement with the other contact upon rotation of the screw in one direction but to separate the contacts upon rotation in the opposite direction.

2,281,315
BASEBALL MITT
Harry B. Latina, East St. Louis, Ill., assignor to Rawlings Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application September 12, 1940, Serial No. 356,442
1 Claim. (Cl. 2—19)

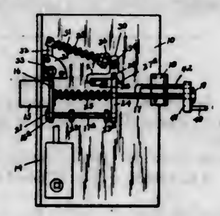


A baseball mitt whose front and back sides are formed by facing pieces of flexible material, each of which is cut or shaped so as to produce a center portion having three projections or extensions separated from each other by gaps, said facing pieces being arranged in superimposed or substantially parallel relation and the corresponding parts of said pieces having their marginal edges connected together so as to produce a flexible shell comprising a palm portion, a hollow thumb portion, a hollow finger portion designed to receive all of the fingers of the user's hand, and a back-stop portion arranged intermediate said thumb and finger portions and separated from same by gaps, padding material on the interior of said shell for padding the respective portions of same, and flexible, skeleton-like structures for bridging the gaps between the central back-stop portion and the thumb and finger portions and connecting to same for causing the thumb and fingers of the user's hand to be drawn inwardly towards each other by the force or impact of a caught ball on said back-stop portion.

2,281,316
COMPOSITION OF MATTER AND METHOD OF PRODUCING THE SAME
Everitt Walter Mace, Tulsa, Okla., assignor to Petrolite Corporation, Ltd., Wilmington, Del.
No Drawing. Application January 22, 1940, Serial No. 315,127
16 Claims. (Cl. 260—406)

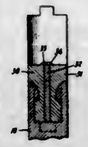
1. A viscous, non-gelatinized product formed by oxidizing with an oxygen-containing gas the reaction product of a member of the group consisting of ricinoleic acid, polyricinoleic acid and their esters with a member of the group consisting of aldehydes and ketones.

2,281,317
LOCK
Robert Buchanan McFarlane, Toronto, Ontario, Canada
Application December 3, 1940, Serial No. 368,373
5 Claims. (Cl. 292—164)



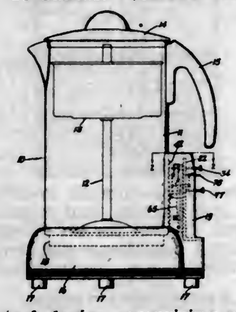
1. A door lock comprising in combination a base plate, a main shaft slidably carried by said base plate, a latch bolt on one end of said main shaft, a movable stop member on said shaft, a relatively heavy compressible spring mounted on said shaft between said stop member and a spaced apart abutment secured to said shaft approximate to said latch bolt, said compressible spring normally holding said shaft in latch bolt protracted position, a second shaft having one end slidably carried by said abutment and the other end secured to and actuated by movement of the said movable stop member, means for limiting the movement of said second shaft independently of said abutment, and manually operated means operably connected to said movable stop member, said manually operable means including relatively light spring means adapted to return the assembly to its normal latch protracted position, and means for retracting said latch bolt independently of said manually operated means.

2,281,318
BLADED STRUCTURE
Jakob Neufeld, Berlin-Spandau, Germany, assignor to General Electric Company, a corporation of New York
Application November 25, 1940, Serial No. 367,123
In Germany December 9, 1939
2 Claims. (Cl. 253—77)



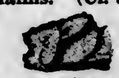
1. Bladed structure comprising a support forming an undercut groove with a notch and a recess in the bottom of the groove adjacent the notch, a plurality of blade and spacer members between the blades having portions engaging and filling the groove, the spacer member filling the notch having an extension located in the recess and engaging the end faces of adjacent members, at least one other spacer member being made in two halves to permit assembly with the support subsequent to assembly of the spacer member located in the notch, and means locking said halves to the support.

2,281,319
CONTROL DEVICE
Heber L. Newell, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application December 31, 1940, Serial No. 372,535
13 Claims. (Cl. 219—43)



1. A control device comprising a temperature responsive element, control means responsive to movement of said temperature responsive element for initiating a timed interval, control means responsive to further movement of said temperature responsive element for terminating said timed interval, and control means operable after the lapse of said timed interval for maintaining a predetermined temperature in accordance with movement of said temperature responsive element.

2,281,320
ROASTING GREEN COFFEE
John R. Odell, Jr., Grosse Pointe Farms, Mich.
Application October 2, 1939, Serial No. 297,602
4 Claims. (Cl. 99—68)
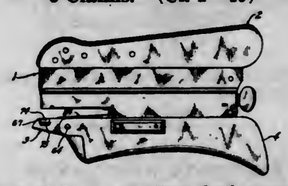


1. A process of preparing a roasted coffee product comprising bringing the moisture content of green coffee bean sufficiently low to permit cracking the bean to form separate particles, then adding moisture to the particles to form a plastic composition, then flaking this plastic composition and roasting these green coffee flakes.

2,281,321
OVERSHOE
Frederick F. Ojson, Belmont, and Leslie H. L'Hollier, Waltham, Mass., assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application August 3, 1940, Serial No. 350,562
1 Claim. (Cl. 36—7.3)



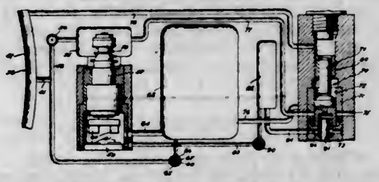
A heel type overshoe comprising a flexible upper having a constricted foot-receiving opening, a bendable full length sole and a heel-receiving portion at the rear end of the sole, said upper comprising an outer layer of elastic rubber-like material extending continuously from the forward part of the shoe over said heel-receiving portion, a fabric lining secured to the inner face of said outer layer forward of the heel portion of the upper and terminating at the heel portion with the edges of said lining extending upward from the bottom of the heel-receiving portion at each side thereof, the heel portion of the upper having a stiffening layer spaced rearwardly of said edges of the lining and connected to said lining by an extent of said elastic outer layer providing stretchability of the heel-receiving portion for donning and doffing the overshoe.

2,281,322
STAPLING MACHINE ANVIL
William G. Pankonin, Chicago, Ill.
Original application September 26, 1940, Serial No. 358,439. Divided and this application April 11, 1941, Serial No. 388,011
5 Claims. (Cl. 1—49)



1. An anvil for a stapling device comprising a plurality of anvil members, each member having a plurality of differently acting clinching cavities, said members being movable to selected positions whereby the desired clinching cavity may be alined with the legs of the staple driven from the stapling device.

2,281,323
WELDING EQUIPMENT
Henry Thomas Platz, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application May 26, 1938, Serial No. 210,233
32 Claims. (Cl. 219—4)

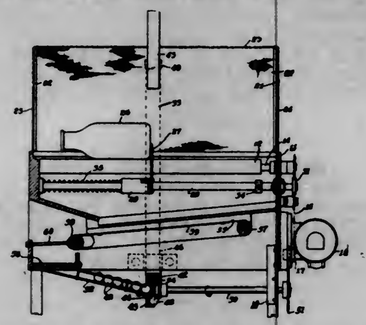


15. In electric welding equipment, a welder having relatively movable electrodes arranged in an electric circuit, a fluid pressure supply line communicating with the welder, means for introducing fluid under pressure from the supply line into the welder, means responsive to the fluid under pressure admitted to the welder to relatively move the electrodes into engagement with the work, a fluid pressure operated valve communicating with the supply line in advance of the welder to receive fluid pressure prior to admitting the same to the welder and operated by the pressure of the fluid, and a switch in said circuit responsive to the operation of the valve to close the circuit to said electrodes.

2,281,324
APPARATUS FOR TESTING BY IMPACT
Frank W. Preston, Butler, Pa.
Application January 23, 1941, Serial No. 375,554
12 Claims. (Cl. 73—51)

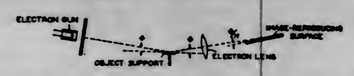
1. Apparatus for testing glass bottles and the like, comprising means for moving a bottle longitudinally of its axial line, means for simultane-

ously rotating the bottle about its axis, and means for imparting impacts thereto during the



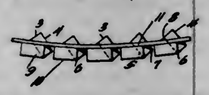
said movements, at a predetermined point along the path of travel.

2,281,325
ELECTRON MICROSCOPE
Simon Ramo, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application August 20, 1941, Serial No. 407,562
7 Claims. (Cl. 250—49.5)



1. Apparatus for the microscopic examination of an electron-impervious object comprising means for generating a beam of electrons, means for supporting the chosen object with a surface desired to be examined in the path of the electron beam and inclined thereto to assure a low angle of incidence of impinging electrons, an electron lens system for electron-optically focusing the electrons grazingly reflected from the said surface, and electron sensitive image-reproducing means positioned to receive the focused electrons.

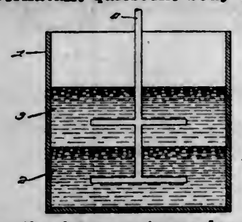
2,281,326
WELL SCREEN
Chester E. Records, Columbus, Ohio
Application August 15, 1940, Serial No. 352,784
5 Claims. (Cl. 166—5)



1. A well screen comprising a series of rectangular bars extending vertically throughout the length of the screen and each arranged at an angle to the coincident tangential line of the screen, the ends of the bars being deformed to cause such ends to be arranged in circumferential alignment, and rings secured to the flat sides of the deformed ends.

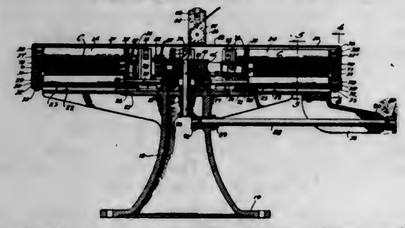
2,281,327
EXTRACTION OF BENZO-QUINONE
Joseph C. Schumacher and Alwin C. Carus, La Salle, Ill., assignors to Carus Chemical Company, Inc., a corporation of Illinois
Application June 5, 1940, Serial No. 339,017
2 Claims. (Cl. 260—396)

2. The method of preparing benzo-quinone which comprises oxidizing aniline sulfate under acid conditions in the presence of an excess of water, and then supplying to the quiescent body of the resulting aqueous quinone-containing mixture a supernatant quiescent body of an organic



solvent for the benzo-quinone lower in specific gravity than said mixture, and maintaining said organic solvent thereon for an extended period under circulating conditions sufficiently slow to produce no turbulence at the interface.

2,281,328
MOTION PICTURE PROJECTOR
Abraham Shapiro, Chicago, Ill., assignor to Ampro Corporation, Chicago, Ill., a corporation of Illinois
Application December 12, 1940, Serial No. 369,871
6 Claims. (Cl. 88—18.7)

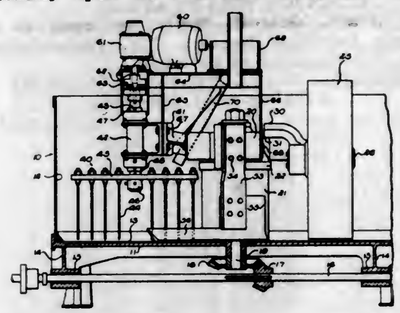


1. A film holder for continuous film motion picture projectors, comprising a horizontal platform, lower smooth surfaced radial rollers of uniform diameter horizontally journaled on said platform on which the film coil is laid, means for rotating said rollers, upper freely rotatable radial gravity rollers above and parallel with said lower rollers adapted to rest on and be rotated by the film coil and bodily movable vertically, members engaged with the outer and inner peripheries of the coil to maintain the form of the latter, a horizontal sprocket coaxial with said platform for drawing off the outgoing film from the center of said coil, means for rotating said sprocket, and means for guiding the returning film onto the outer periphery of said coil.

2,281,329
MULLER AND MOTOR DRIVEN AGITATOR
Bruce L. Simpson, Chicago, Ill., assignor to Herbert S. Simpson, Chicago, Ill.
Application June 29, 1940, Serial No. 343,253
12 Claims. (Cl. 83—45)

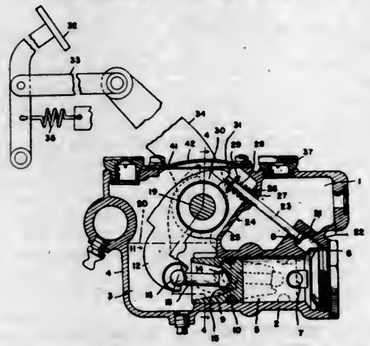
1. In a muller-agitator, a mulling pan, a mulling wheel freely rotatable upon a supporting axis therein, an agitator assembly positioned within said pan and supported by a freely rotatable axis, means for supporting said agitating assembly and said mulling wheel in operative relation to the bottom wall of said pan, means for rotating said supporting means to orbitally rotate said agitator and said mulling wheel, and an independently operable prime mover drivingly connected to said agitator for rotating said agitator

assembly upon its own axis independently of



said orbital rotation to intensely mix material in said pan.

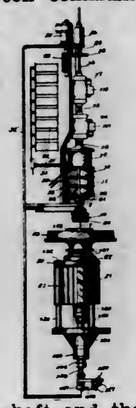
2,281,330
MASTER CYLINDER
Charles W. Sinclair, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Application March 20, 1939, Serial No. 263,069
5 Claims. (Cl. 60—54.6)



4. A master cylinder comprising a cylinder, a piston movable within said cylinder, a chamber communicating with the rear end of said cylinder and containing liquid to a height above the communication with said cylinder, a liquid reservoir adapted to communicate with said cylinder, said reservoir being closed from communication with said chamber, and means for moving said piston comprising a shaft extending into said chamber above the level of liquid therein, and a lever upon said shaft operatively connected to said piston.

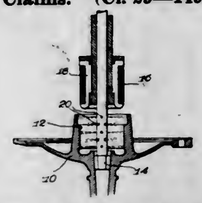
2,281,331
INDUCTION HEAT TREATING APPARATUS
Howard E. Somes, Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan
Application September 17, 1937, Serial No. 164,320
29 Claims. (Cl. 266—4)

1. Apparatus for heat treating a work piece by electro-magnetic induction comprising a stationary support, a work holder for holding the work piece, a tool shaft slidably mounted on said support and having a channel therein, an induction head carried by said shaft for movement with the shaft into and out of operative heating relation with the work piece held in said work holder, a tubular heating coil carried by said induction head, and a quenching nozzle carried by the induction head having fluid connection with the channel in said tool shaft, one terminal of said tubular coil communicating with the



channel in said shaft and the other terminal communicating with a space beyond the nozzle on the side away from the induction head.

2,281,332
METHOD OF VARYING DIMENSIONS
Howard E. Somes, Grosse Pointe Park, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan
Application April 8, 1939, Serial No. 266,911
8 Claims. (Cl. 29—149.5)

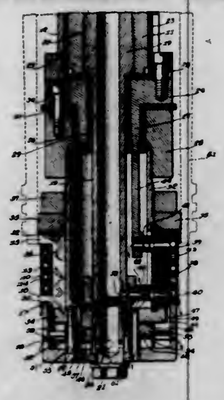


1. The method of reducing the internal diameter of the bore of a sleeve without materially changing the external diameter thereof, which comprises generating annular heating currents in the internal layers of said sleeve by electro-magnetic induction to uniformly heat an annular internal zone to a plastic state for approximately 3 to 5 seconds subsequently cooling in air, while maintaining the outer layers sufficiently cool whereby upon complete cooling the outer layers will return substantially to their normal original dimension, and said inner layers will have been forced to expand and upset inwardly while in the plastic state.

2,281,333
PROGRESSIVE HEAT TREATING APPARATUS
Howard E. Somes, Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan
Application June 8, 1939, Serial No. 277,996
11 Claims. (Cl. 266—4)

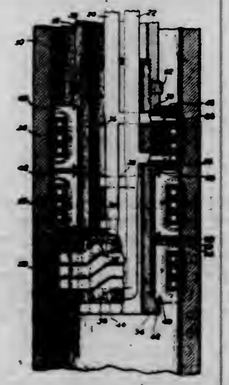
1. An induction head for heat-treating a hollow workpiece from the inside comprising a core support, a cylindrical radially laminated core carried by said support and surrounding the same, an induction heating coil surrounding said core, said core having extensions at each end extending radially outwardly of the ends of said coil,

and a quenching fluid channel formed in the external radial face of one of said core exten-



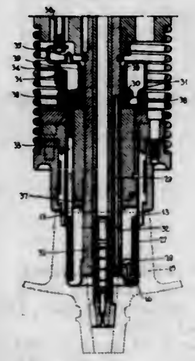
sions to direct a quenching fluid outwardly and axially away from said radial face.

2,281,334
HEAT TREATMENT
Howard E. Somes, Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan
Application May 17, 1940, Serial No. 335,843
10 Claims. (Cl. 219—13)



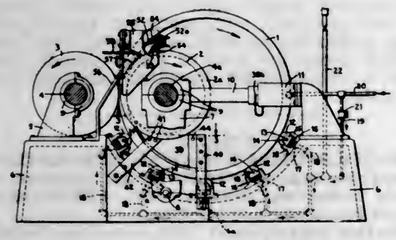
1. Apparatus for heat treating a surface portion of an elongated workpiece comprising a plurality of high-frequency inducing coils and cores therefor having pairs of complementary pole pieces spaced apart in the direction of elongation of the workpiece, said coils having each of their convolutions and cores lying closely adjacent the workpiece and extending over a length less than the length of the workpiece and presented to the surface to be treated to guide the magnetic flux into the latter, the magnetic circuit of each coil being axially spaced from the magnetic circuit of each other coil insofar as the portions of said magnetic circuits outside the work are concerned, all adjacent pole pieces being of the same polarity and being spaced in the direction of elongation a fractional portion of the length of each of the coils or the pole pieces, and means for effecting relative movement between the said series of coils and the workpiece in the direction of elongation.

2,281,335
INDUCTION HEATING
Howard E. Somes, Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan
Application May 21, 1940, Serial No. 336,363
4 Claims. (Cl. 219—13)



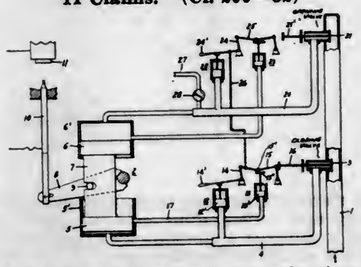
4. In a device for heating a work piece by electromagnetic induction, a hollow inducing conductor, means for supplying cooling fluid to said conductor, the improvement for eliminating the deposition of atmospheric moisture on said conductor, which improvement includes a heat exchange device for removing heat from the cooling fluid, said device being spaced from the portion of the conductor which is effective to heat the work and constructed to remove no more than enough heat from the cooling fluid to keep such fluid substantially at or slightly above the temperature of the atmosphere adjacent said conductor.

2,281,336
RECOVERY OF RUBBER
Matthew J. Stacom, Flushing, N. Y., assignor to Stacom Process Corporation, Long Island City, N. Y., a corporation of New York
Application March 14, 1938, Serial No. 195,777
21 Claims. (Cl. 260—816)



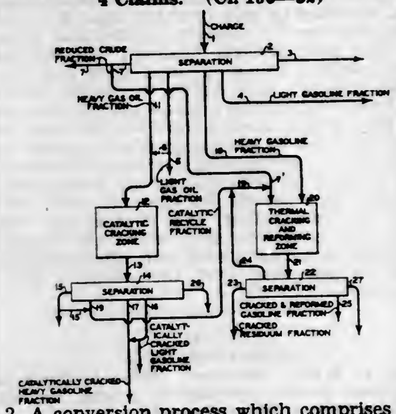
1. In the recovery of rubber from rubber-bearing plants, the step of subjecting the plant having substantially its normal amount of liquid and its normal cellular structure to about 5,000 to 100,000 pounds pressure per lineal inch of width of the matter to which the pressure is applied to express and separate rubber therefrom in a fluid fraction by a single application of the pressure.

2,281,337
CIRCUIT BREAKER FLUID PRESSURE OPERATED SYSTEM
Hans Stegelitz, Berlin-Johannisthal, and Wilhelm Schreiner, Berlin-Niederschonhausen, Germany, assignors to General Electric Company, a corporation of New York
Application February 26, 1938, Serial No. 192,804
In Germany April 3, 1937
11 Claims. (Cl. 200—82)



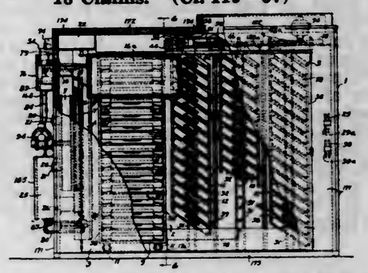
1. Fluid operated actuating mechanism comprising a source of fluid pressure, piston structure adapted to be actuated by fluid pressure, a main valve for controlling a fluid connection between said source and piston, an auxiliary pressure operated device communicating with said connection, means for opening said main valve, means mechanically interconnecting said auxiliary device and main valve whereby said device is operative to maintain said main valve in open position when fluid pressure is first admitted to said connection, and means for rendering inoperative the connection between said device and main valve after a predetermined working stroke of said piston.

2,281,338
HYDROCARBON CONVERSION
Frank G. Straka, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application August 18, 1939, Serial No. 290,777
4 Claims. (Cl. 196—52)



2. A conversion process which comprises fractionally distilling hydrocarbon oil of relatively wide boiling range to separate therefrom a heavy gasoline fraction and a fraction suitable as catalytic cracking stock, catalytically cracking the last named fraction and fractionating the resultant products to separate gasoline from higher boiling hydrocarbons, combining at least a portion of the latter with said heavy gasoline fraction, thermally cracking the resultant mixture, and separating gasoline from the products of the last-mentioned cracking step.

2,281,339
INCUBATOR
Joseph I. Taggart, Cleveland, Ohio
Application August 2, 1940, Serial No. 349,478
18 Claims. (Cl. 119—37)

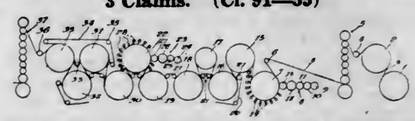


4. An incubator comprising an elongated chamber, a hatching rack at one end of said chamber, a plurality of incubating racks arranged side by side between the hatching rack and the opposite end of the chamber, means for controlling the temperature and humidity of the air in said chamber, a fan in the end portion of the chamber remote from the hatching rack for maintaining a vertically circulating current of air through the incubating racks, and a fan in the end of the chamber occupied by the hatching rack for drawing a portion of the air from the vertically circulating current and causing the same to pass horizontally through the hatching rack.

16. In an incubator, an egg tray, a rack for supporting said tray having a tray receiving portion of greater width than the tray, and a chick guard attached to the tray and providing a chick runway alongside the tray.

18. An incubator comprising a main chamber, egg supporting racks in said chamber, means for circulating air in said chamber, air cooling means comprising a coil connected at one end to a water supply line, a discharge pipe connected to the opposite end of said coil, said discharge pipe having a plurality of outlets, a valve controlling each of said outlets, an air humidifying device receiving water from one of said outlets, means for operating said valves, means including a humidostat in the main chamber for controlling the operation of the valve controlling the outlet leading to the humidifying device, and means including a thermostat in the main chamber for controlling the operation of the valve controlling another of said outlets.

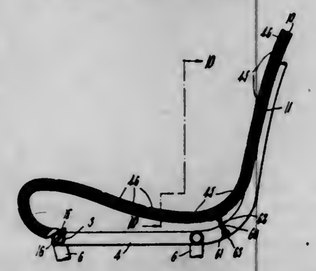
2,281,340
PAPER COATING DEVICE
William F. Thiele and Howard B. Richmond, Wisconsin Rapids, Wis., assignors to Consolidated Water Power and Paper Company, Wisconsin Rapids, Wis., a corporation of Wisconsin
Application September 8, 1939, Serial No. 293,982
3 Claims. (Cl. 91—55)



1. A device for coating paper in a continuous manner as it comes from the driers of a paper machine comprising, means for passing the web

of paper from the driers of the paper machine to the surface of a heated drier drum, means for carrying said web around a major portion of the surface of said drying drum, whereby said web is brought into heat interchange relationship with the drum surface means for maintaining the tension of the web substantially constant during its travel around said drying drum, a coating unit disposed adjacent said drying drum comprising a roll which contacts said web upon said drum at a point on said drum spaced from the point at which the web initially contacts the drying drum and after the web has traveled over a minor portion of its total travel over said drum surface to preliminarily heat the web prior to the application of coating thereto, means for depositing a coating material on said roll, said roll being adapted to transfer said coating material to said web, while said web is passing over said drying drum, whereby said coating material carried upon said web is given a preliminary set during passage of the web in the remaining major portion of its travel over the surface of said drum.

2,281,341
CHAIR OR SEAT
John Turner, Contoocook, N. H.
Application November 23, 1938, Serial No. 241,911
8 Claims. (Cl. 155—119)



8. The method of making a seat structure which comprises forming a plurality of spring wires into seat and back form having a forwardly bowed back portion and a reversely curved seat portion merging with said back portion and with projecting ends, laying sheet material over a seat form having a contour similar to that of said wires, arranging a plurality of said wires in substantially parallel relation on said sheet material and clamping said ends in position, overlying said wires with unvulcanized rubber and vulcanizing said rubber, wires, and sheet material layer together, unclamping said wire ends, and removing the structure from said form, and then permanently securing said wire ends to top back and front seat frame members with said vulcanized structure free from the frame between said members.

2,281,342
GARMENT SUPPORTER
Daniel Visconti and Esther R. Visconti, South Weymouth, Mass.
Application April 5, 1939, Serial No. 266,088
4 Claims. (Cl. 24—243)

1. A trolley action garter for girdles comprising a short length of elastic tape, the ends of which are secured to the girdle in spread apart relationship, male and female fastening elements each having a single slot to receive the tape whereby said elements are freely slidable on the loop of tape, the outer male element having an inwardly offset tongue and the inner female element having an opening to receive the tongue, the vertical dimension of said opening being less than the vertical dimension of the tongue where-



by said elements must be angularly disposed for fastening and unfastening, said elements being adapted to support a stocking by gripping a portion of the stocking therebetween.

2,281,343
ADVERTISING SIGNBOARD CONSTRUCTION
David V. Walker, Wichita, Kans.
Application January 16, 1941, Serial No. 374,647
2 Claims. (Cl. 40—130)

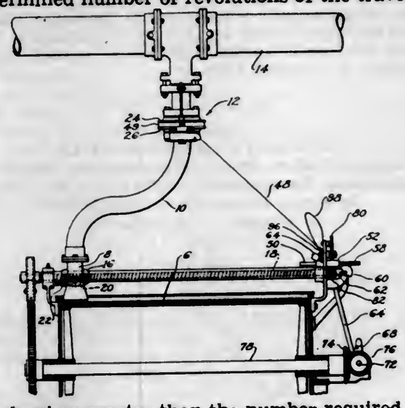


1. An advertising signboard construction including in combination a base member, a vertical background member secured thereto forming a primary area, self-illuminated advertising indicia mounted on said primary area, a second vertical member of different geometrical shape than said first vertical member, said second vertical member being mounted upon said first vertical member and having a second background area disposed in a plane spaced from the plane of said first area, a third vertical member having the form of a graphic representation of merchandise to be advertised, means for mounting said third vertical member in spaced relation with said second background area, and means for footlighting and silhouetting said graphic representation of merchandise against the second background area and simultaneously casting diffued light over the primary background area.

2,281,344
CARDING MACHINE
Charles E. White, Abington, Mass., assignor to Abington Textile Machinery Works, Boston, Mass., a trust of Massachusetts
Application November 2, 1940, Serial No. 364,066
9 Claims. (Cl. 19—109)

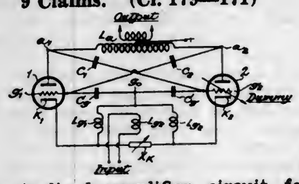
1. In a carding machine, pneumatic stripping mechanism including a nozzle, means for applying suction to the nozzle, a suction valve, traverse mechanism for the nozzle, timing means operable upon each revolution of the traverse mechanism, and connections between the timing means and

the suction valve to close the latter after a predetermined number of revolutions of the traverse



mechanism greater than the number required for traverse of the nozzle.

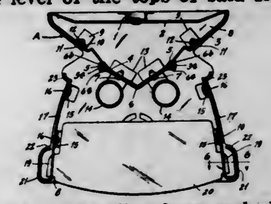
2,281,345
NEUTRALIZED SHORT WAVE AMPLIFIER CIRCUIT
Erwin Willwacher and Heinz Goliub, Berlin, Germany, assignors to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Zehlendorf, Osteweg, Berlin, Germany, a corporation of Germany
Application February 15, 1941, Serial No. 379,068
In Germany August 24, 1939
9 Claims. (Cl. 179—171)



3. A neutralized amplifier circuit for ultra short waves comprising a vacuum tube having a cathode, a grid and an anode, a network simulating the constants of said tube and comprising three spaced elements corresponding to the electrodes of said tube, an output impedance connected between said anode and the corresponding element of said network, a condenser connected directly between the anode of said tube and that element of said network corresponding to the grid, a condenser connected directly between the grid of said tube and that element of said network corresponding to the anode of said tube, a variable impedance connected between the cathode of said tube and the corresponding element of said network, and a four-terminal network, including an input circuit, coupled between said grid and its corresponding element and the cathode and its corresponding element, said four-terminal network including a pair of balancing condensers directly connected to said grid and the corresponding element of said first network.

2,281,346
FLUORESCENT LIGHTING FIXTURE
David J. Biller, St. Louis, Mo., assignor to Day-Brite Lighting, Inc., St. Louis, Mo., a corporation of Missouri
Application November 6, 1941, Serial No. 418,011
4 Claims. (Cl. 240—78)

1. A lighting fixture of the trough reflector housing type, comprising end plates with projecting tabs near their margins, side walls secured to said tabs, said side walls stopping short of the tops of said end plates, tubular lights extending longitudinally of said reflector housing below the level of the tops of said side walls, a

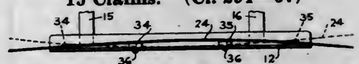


wiring housing extending from end plate to end plate above said lights having portions projecting outwardly beyond said side walls and spaced above the tops thereof, said side walls having outwardly and upwardly rebent lower marginal lips and slots in the area concealed by said lips and louvers having end tabs extending into said slots.

2,281,347
SWEETENING HYDROCARBON OILS
Charles M. Blair, Jr., Webster Groves, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
No Drawing. Application March 15, 1941, Serial No. 383,637
13 Claims. (Cl. 196—30)

1. In the sweetening of sour hydrocarbon oils by treatment thereof with aqueous alkaline solution capable of removing mercaptans from the oil, the method of preventing emulsification of alkaline solution and oil which comprises effecting said treatment in the presence of a relatively small amount of an oil-soluble sulfonate having a molecular weight between 250 and 800.

2,281,348
GRAPPLE
Jack Breslav, New Haven, Conn.
Application October 3, 1941, Serial No. 413,421
15 Claims. (Cl. 294—67)

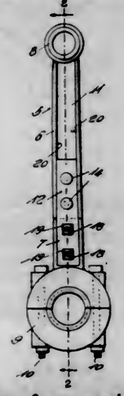


1. In a sheet lifting grapple, means to support a sheet along each side edge thereof, and means on each of said supporting means to induce a curve in the supported sheet intermediate its unsupported ends.

2,281,349
CONNECTING ROD
Ledyard V. Brewin, Paulsboro, N. J.
Application June 14, 1941, Serial No. 398,131
1 Claim. (Cl. 74—579)

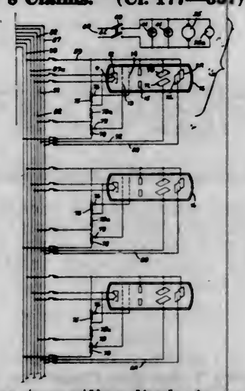
In a connecting rod for internal combustion engines, a member having oppositely arranged channeled faces extending the full length thereof and including separable rigid sections arranged in endwise abutting relation, a piston pin bearing integral with one of said sections, a crank shaft bearing integral with the other section, said sections adjacent the abutting ends each having a group of openings opening through the channeled faces, elongated flat connecting plates lying in the channeled faces across the abutting ends of said sections and provided with openings aligning with the openings in the sections, rivets extending through the openings of one of the sec-

tions and openings of the plates for permanently securing the latter to the latter-named section, and bolts extending through the openings of the other section and openings of the plates to detachably connect the sections whereby one of the sections may be removed through a cylinder head



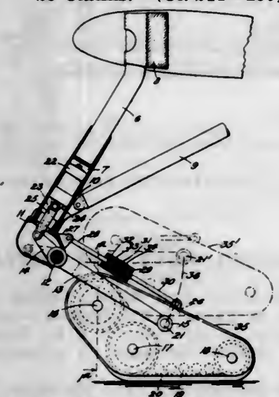
end of a cylinder of an engine along with the piston connected thereto, said plates snugly engaging the channeled faces permitting the latter to assist the rivets and bolts in preventing the plates from having relative movement to the sections.

2,281,350
NUMBER DISPLAYING DEVICE
James W. Bryce, Glen Ridge, N. J., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application April 10, 1940, Serial No. 328,850
8 Claims. (Cl. 177—337)



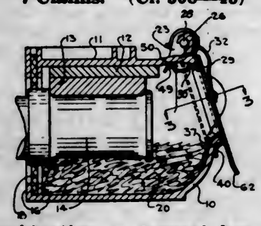
1. A character outline displaying apparatus including a single cathode ray tube having a screen upon which character outlines are traced and displayed, said cathode ray tube having electron deflection control elements, a common source for generating the changing potentials to be impressed upon the deflection control elements for deflecting an electron beam and for controlling the possible tracing of a set of different character outlines, means for selecting which character outline or outlines are to be displayed upon the screen under control of the source means, a plurality of supplemental biasing controls for applying biasing potentials to one of the deflection control elements which also receives said changing potentials to effect a supplemental displacement of the electron beam to any one of a plurality of zones upon the tube screen, and means for bringing said supplemental biasing controls into action whereby a plurality of character outlines may be traced and displayed upon a single screen of a single tube.

2,281,351
AIRCRAFT LANDING GEAR
George Herbert Dowty, Cheltenham, England
Application November 25, 1939, Serial No. 306,205
In Great Britain December 8, 1938
23 Claims. (Cl. 244—100)



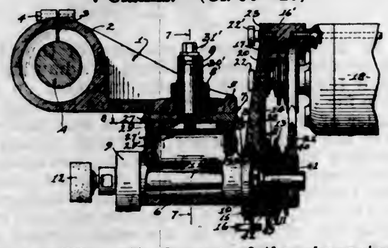
1. In an aircraft landing gear, a supporting structure extending from the aircraft, a principal load bearing lever, pivot means on said structure mounting said lever for swinging in an up and down movement in trail of said structure, an endless track landing element including means pivotally mounting the same as a unitary structure to said lever upon a single pivotal axis remote from said lever pivot on said supporting structure for movement in a pitching sense, resiliently yieldable means interconnecting said landing element with said supporting structure and constructed and arranged whereby the leading portion of said landing element may move upwardly in the pitching sense under the influence of landing loads, and resilient means connected between the lever and the supporting structure to resist swinging of the lever under the influence of landing and taxiing loads transmitted through the landing element.

2,281,352
COMBINED JOURNAL BOX SEAL AND COVER RETAINER
Cleon M. Hannaford, Toledo, Ohio; Marie L. Hannaford executrix of said Cleon M. Hannaford, deceased
Application May 8, 1941, Serial No. 392,517
7 Claims. (Cl. 308—45)



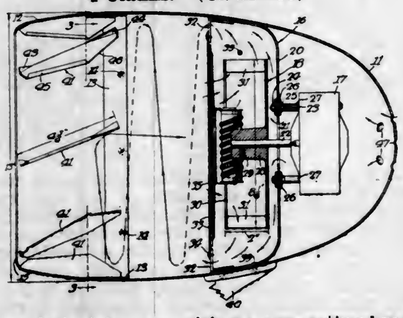
7. In combination, a journal box having an opening, a cover for said opening pivotally connected to said journal box, a sealing means formed of sheet metal and interposed between said journal box and said cover, said sealing means having a U-shaped configuration engageable with the walls of the journal box surrounding said opening; a plurality of resilient projections formed on the sealing means and arranged to engage interior abutments in said journal box, said sealing means having a pair of exteriorly projecting resilient ear portions arranged to engage and normally hold said journal box cover in closed position.

2,281,353
FULL UNIVERSAL ALL-SPEED MILLING ATTACHMENT
Kuteman D. Hubbard, Los Angeles, Calif., assignor to Russel R. Fray, Beverly Hills, Calif.
Application February 20, 1939, Serial No. 257,307
7 Claims. (Cl. 90—17)



1. A milling attachment of the character described comprising a bracket for attachment to the overarm of a milling machine, a member rotatably adjustable on said bracket, a spindle mounting slidably supported on said member, means for moving said mounting relative to said member, and a shaft having its axis coincident with the axis of rotation of said member for operating said means.

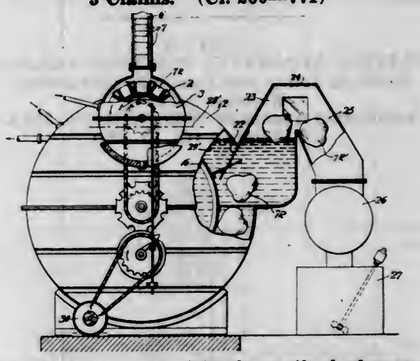
2,281,354
HAIR DRIER
Dwight C. Hudson, deceased, late of Chicago, Ill., by Eleanor C. Hudson, administratrix, Chicago, Ill.
Original application April 17, 1937, Serial No. 137,543. Divided and this application February 13, 1939, Serial No. 256,130
4 Claims. (Cl. 34—99)



4. A hair drier comprising a supporting bracket, an air heating and circulating unit fixed to and carried by said bracket, and a shell enclosing said unit and having a portion clamped between said unit and said bracket and supported thereby

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2,281,355
PROCESS FOR PRODUCING RUBBER HYDROCHLORIDE AND LIKE PRODUCTS
Henry F. Irving and Floyd E. Williams, Gary, Ind., assignors to Marbon Corporation, Gary, Ind., a corporation of Delaware
Application May 1, 1939, Serial No. 271,064
3 Claims. (Cl. 260—771)



1. The improvement in the method of preparing rubber hydrochloride which comprises reacting a bundle of rubber with liquefied hydrogen chloride to form a bundle of rubber hydrochloride, and immersing said bundle of rubber hydrochloride in an aqueous liquid medium saturated with hydrogen chloride and at a temperature substantially above the temperature of said bundle of rubber hydrochloride whereby heat is transferred into said mass of rubber hydrochloride and hydrogen chloride is released from said mass without being absorbed by said liquid, and recovering said hydrogen chloride.

2,281,356
TREATMENT OF HYDROCARBONS
Warren W. Johnstone and Wayne L. Benedict, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application September 22, 1939, Serial No. 296,070
4 Claims. (Cl. 196—30)

1. In the sweetening of hydrocarbon distillates containing hydrogen sulfide and water by contact with copper-containing sweetening agents which are deleteriously affected by hydrogen sulfide and water, the improvement which comprises treating the distillate, prior to its contact with the sweetening agent, with a substantially anhydrous mixture of an aliphatic polyhydroxy alcohol and an aliphatic hydroxylamine to remove hydrogen sulfide and water therefrom.

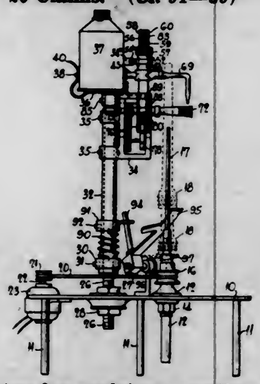
2,281,357
EAR MUFF
Victor R. Johnson, Chicago, Ill.
Application December 18, 1939, Serial No. 309,905
3 Claims. (Cl. 2—209)



3. An ear muff comprising a flat pocket mem-

ber having a pair of substantially identical and substantially ear-shaped side walls, and a slit-like frontal opening in an edge of said member adapted for the insertion of an ear therein, the rim of the frontal opening of the pocket being tucked inwardly to form a hem, and an endless band of elastic material incorporated in the hem.

2,281,358
COATING APPARATUS FOR YARN HOLDERS
David A. Jolley and Joseph P. Scarborough, Kannapolis, N. C.
Application August 20, 1940, Serial No. 354,652
20 Claims. (Cl. 91—39)



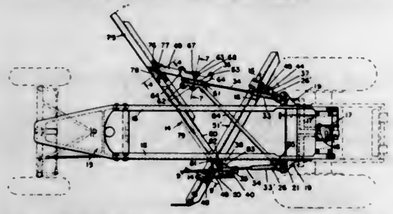
1. Apparatus for applying a coating to a portion of a yarn carrier comprising a rotary holder for the yarn carrier, a movable brush, means for supplying coating material to the brush, means operable by the placing of a yarn carrier onto the rotary holder for moving the brush into contact with the yarn carrier for applying coating material to the yarn carrier while the yarn carrier is being rotated.

2,281,359
PLOW TAIL WHEEL
Cecil E. Kenner, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application April 19, 1939, Serial No. 268,755
5 Claims. (Cl. 152—352)



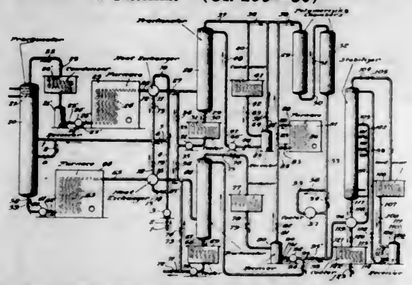
1. A pneumatic tire for an agricultural implement wheel, for guiding and supporting the wheel during earth-working operations and for pneumatically cushioning it from ground or pavement, said tire comprising an annular inflatable body having a wheel-engaging portion and side wall portions, and a tread of rubber-like material integral with said body comprising a major conical tread face intersecting the central radial plane of the tire so as to extend axially beyond said plane in opposite directions and having an axis coincident with that of the wheel and arranged to provide cushioning support of the wheel from the ground, and a minor conical tread face having the same axis as the first with said tread faces converging to one side of the central radial plane of the tire, the sidewalls of the tire being spaced laterally inward of the sides of the angle formed by said conical tread faces.

2,281,360
ROAD SHOULDER MAINTAINER
Joseph H. Kerber, Milwaukee, Wis., assignor to Hi-Way Service Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application May 8, 1939, Serial No. 272,492
6 Claims. (Cl. 37—155)



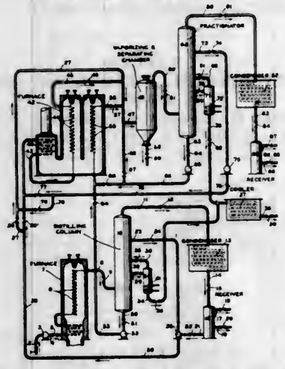
1. In a road treating apparatus of the character described, the combination of a hauling vehicle, a front scraper member mounted on said vehicle for working over the surface forming the shoulder of the road and scraping road material toward the edge of the surfaced road, means for supporting said member at varying elevations, a second scraper blade yieldingly mounted relative to the roadway and carried by said supporting means to scrape material from the surfaced road back to the shoulder at the edge thereof and spread said material evenly over said shoulder, said blades being vertically and pivotally mounted relative to each other and said supporting means being adapted to hold said blades at various angles to each other in a horizontal plane.

2,281,361
TREATMENT OF MOTOR FUEL
Friedrich W. Leffer, Kenton-Harrow, England, assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application November 30, 1938, Serial No. 243,173
5 Claims. (Cl. 196—50)



1. A process for producing anti-knock motor fuel from gasoline distillates of low anti-knock value which comprises separating the distillate into a light fraction and a heavier fraction, cracking said light fraction in a heating zone and separating from the resultant products a condensate containing heavy gasoline hydrocarbons and a lighter fraction containing normally gaseous olefins, reforming said heavier fraction of the distillate in a second heating zone, commingling at least a portion of said condensate with the heated products from the second heating zone, fractionating the resultant mixture to separate a gasoline product from normally gaseous olefins, combining the latter with said lighter fraction containing normally gaseous olefins, subjecting the thus commingled materials to polymerization, and recovering gasoline boiling hydrocarbons from the products of the polymerization.

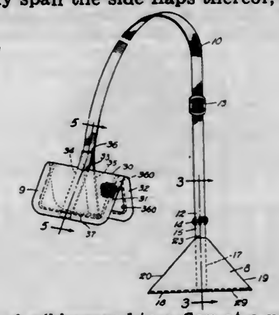
2,281,362
CONVERSION OF HYDROCARBON OILS
Friedrich W. Leffer, Kenton-Harrow, England, assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application January 13, 1939, Serial No. 250,772
8 Claims. (Cl. 196—48)



1. The process of treating a synthetic hydrocarbon oil resulting from the interaction of carbon monoxide and hydrogen, which comprises separating from said oil by fractional distillation thereof, without appreciable cracking, a Diesel fuel of unusually high cetene number, selected lower boiling fractions and fractions boiling above the range of said Diesel fuel, cracking said lower boiling fraction under conditions regulated to produce therefrom high yields of good antiknock gasoline, separately cracking said higher boiling fractions under conditions regulated to produce therefrom high yields of cracked Diesel fuel, commingling the products of both cracking operations and cooling the same to below an active cracking temperature, separating the resulting cooled and commingled products into vapors and non-vaporous residue, fractionating the vapors to form condensate consisting of cracked Diesel fuel having a low cetene number and an overhead vaporous stream comprising materials of good antiknock value boiling within the range of gasoline, condensing said overhead vaporous stream, recovering the resulting distillate, and blending Diesel fuels resulting from said distilling and cracking steps to form a final Diesel fuel product of the desired characteristics.

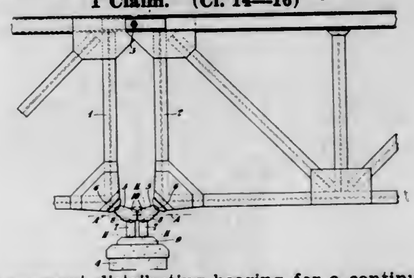
2,281,363
GARMENT STRAP REINFORCEMENT
Emmita Lyford, Cincinnati, Ohio
Application September 9, 1940, Serial No. 355,916
8 Claims. (Cl. 2—323)

1. A supporting strap structure for dainty garments which are structurally inherently weak, said supporting structure comprising an elongated narrow ribbon having opposite ends for attachment to portions of the garment, anchorage pockets having spaced side flaps providing enlarged surfaces for contacting equally large surfaces of the garment and providing substantial areas of fixation, the ends of the ribbon being extended into and through the pockets to substantially span the side flaps thereof, and means



fixing each ribbon end to a flap at a point remote from the location at which the ribbon end enters the pocket.

2,281,364
MOMENT DISTRIBUTING BEARING
Albert F. MacDonald, Leetsdale, Pa.
Application July 16, 1940, Serial No. 345,802
1 Claim. (Cl. 14—16)



A moment distributing bearing for a continuous structure having at least two spans with the bottoms of adjacent ends of the spans positioned over a common support and the tops of the ends pivoted together, said bearing including the combination of opposite lever members, the upper end of one member being pivoted to one of the bottoms and the other member being similarly pivoted to the other of the bottoms, the members being declined towards each other and terminating in curved surfaces which rockably abut each other; wheel members rockably engaging the support; the lower end of each lever member having a pivotal connection with the upper end of one of the wheel members and being positioned between the curved surface and the upper pivot of the respective lever member; and the point of abutment between the curved surfaces being positioned between a line connecting the upper pivots and a line connecting the lower pivots of the lever members for transmitting horizontal components between the ends and the support.

2,281,365
ENGINE STARTER GEARING
Thomas B. Martin, Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application August 21, 1940, Serial No. 353,490
9 Claims. (Cl. 74—7)

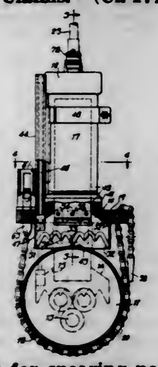
1. In an engine starter drive, a power shaft, a screw shaft splined thereon, a pinion journalled on the power shaft and slidable into engagement

with a member of an engine to be started, said power shaft having stop means defining the operative position of the pinion, a barrel member fixed to the pinion, a nut threaded on the screw shaft and splined to the barrel, yielding means



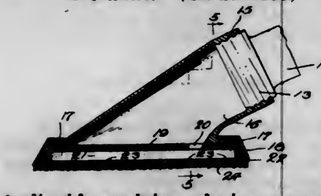
transmitting longitudinal movement of the nut to the barrel in a direction to engage the pinion with the engine member, and yielding means opposing longitudinal movement of the screw shaft in the opposite direction.

2,281,366
CABLE SPEAR
Charles N. Metcalf, Port Chester, N. Y., assignor to Consolidated Edison Company of New York, Inc., New York, N. Y., a corporation of New York
Application March 29, 1941, Serial No. 385,955
13 Claims. (Cl. 174—5)



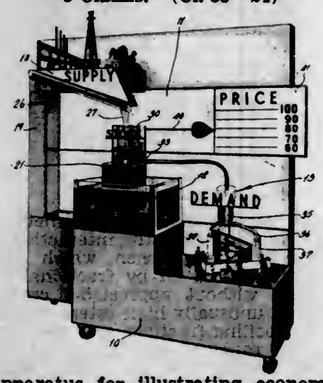
2. Apparatus for spearing power cables, comprising a fluid pressure operated piston, a cylinder therefor, a spearing blade secured in respect to said piston, and means for removably securing said cylinder in respect to a cable with said blade directed toward the cable, including a sprocket chain for embracing the cable and attached at its ends to said cylinder.

2,281,367
APPLICATOR
Norman J. Moll, Washington, D. C.
Application July 3, 1941, Serial No. 401,033
4 Claims. (Cl. 15—138)



1. A liquid applying device comprising an open-mouthed main hollow liquid receiving body terminating in a supporting flange, an elongated solid rubber yieldable backing member secured to said flange and extending across the open-mouth of said body whereby the intermediate portion of said member is readily inwardly flexible, a plurality of liquid distributing conduits extending longitudinally of said member formed in the outer face thereof, the inner face of the backing member having a transverse slot providing communication between the hollow body and the rear portions of said distributing conduits, a contact applicator part coextensive with the outer face of said backing member including a supporting part and a wiping part, said supporting part having a plurality of openings providing communication between said conduits and said wiping part whereby liquid from said main body will be evenly dispensed to substantially the entire wiping part.

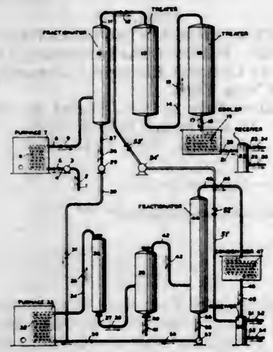
2,281,368
APPARATUS FOR ILLUSTRATING ECONOMIC LAWS
James D. Mooney, Oyster Bay, N. Y.
Application April 19, 1941, Serial No. 389,320
5 Claims. (Cl. 35—24)



1. Apparatus for illustrating economic laws, comprising a vertical wall, a tank containing liquid mounted in front of said wall, a float in said tank, a liquid receptacle mounted on the top of said float, means for admitting liquid to and means for discharging liquid from said receptacle at relatively variable rates to represent the relative strength of two economic factors, a guiding member extending through an opening in said wall behind said float and connected to the latter to hold said float in vertical position while permitting it to rise and fall as the volume of liquid in the receptacle decreases and increases, respectively, to represent the resultant of said factors, and a counterweight connected to said member behind said wall to reduce the depth of submergence of the float due to the dead weight of the float and receptacle.

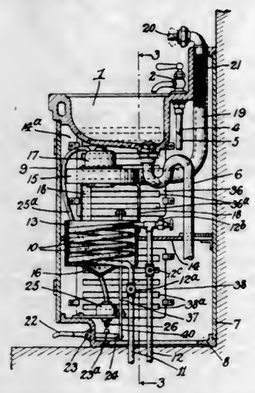
2,281,369
TREATMENT OF GASOLINES
Jacque C. Morrell, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application April 30, 1938, Serial No. 205,368
2 Claims. (Cl. 196—50)

1. A process which comprises separating cracked gasoline into a light fraction and a heavier fraction of approximately gasoline end boiling point, contacting said light gasoline fraction, in admixture with normally gaseous olefins, with a polymerizing agent under polymerizing conditions to produce gasoline boiling hydrocarbons from the gaseous olefins and to free said light gasoline fraction of objectionable gum-forming olefins, reforming said heavier fraction of approximately gasoline end point for en-



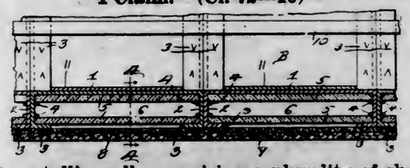
hancement of its anti-knock value under conditions such that a portion thereof is decomposed into normally gaseous olefins, and supplying normally gaseous olefins produced in the reforming step to the aforesaid polymerizing step.

2,281,370
COMBINATION WASHROOM FIXTURE
Willard L. Morrison, Lake Forest, and Robert Edwin Moore, Park Ridge, Ill.
Application October 28, 1938, Serial No. 237,514
4 Claims. (Cl. 4—166)



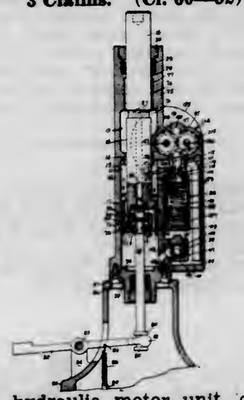
1. A combination wash room fixture comprising an enclosure, heating coil in said enclosure, means for supplying heating fluid to said heating coil, an air discharging nozzle, a blower, an electric motor for driving said blower, a connection between said blower and said nozzle, a circuit closing device for closing the electric circuit through said motor to set said blower in operation to discharge hot air from said enclosure through said nozzle, a separate discharge opening separate from said nozzle, for discharging hot air from the enclosure into the room, a controlling device for said separate discharge opening, and a connection between said controlling device and said circuit closing device, which moves the controlling device to close said separate discharge opening while the motor is in operation.

2,281,371
METALLIC BUILDING STRUCTURE
Herman A. Mugler, Lynbrook, N. Y.
Application July 6, 1939, Serial No. 283,114
1 Claim. (Cl. 72—16)



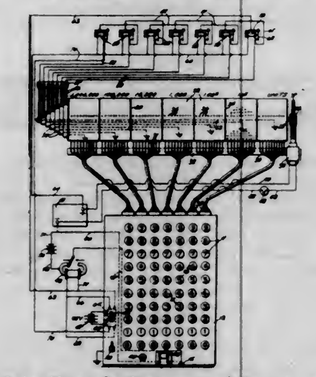
A metallic wall comprising a plurality of sheet metal panels, the abutting sides of said panels being channeled shaped and having their outer flanges extending in opposite directions, a metal lathing engaging the flanges, struck-out lugs carried by the flanges and extending outwardly through the metal lathing, anchoring the lathing to the flanges and struckout lugs carried by the webs of the channels and overlying each other and anchoring said webs together, said struck out lugs of the webs being in vertical series and spaced from the inner sides of the panels and the inner sides of the channel flanges, and sheets of insulating material interposed between the inner sides of the panels and the adjacent tongues, and the inner sides of the flanges and the adjacent tongues.

2,281,372
HYDRAULIC MOTOR
Johan A. Muller, Mount Gilead, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del., a corporation of Delaware
Application September 9, 1938, Serial No. 229,215
3 Claims. (Cl. 60—52)



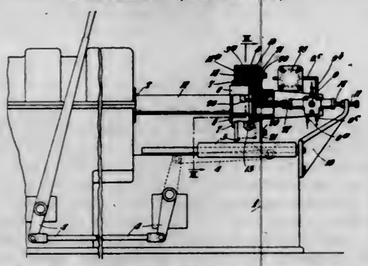
1. In a hydraulic motor unit, casing means having a cylinder bore, a plunger reciprocable in said bore and having a head with a passageway therethrough, a pump mounted on said casing means and connected to deliver pressure fluid to said cylinder bore on one side of said head, a valve member positioned to selectively open and close said passageway to admit and exclude pressure fluid respectively from the other side of said head, said valve member being adapted to physically contact said plunger throughout a portion of its stroke for moving said plunger a portion of its stroke in response to a manual movement of said valve member whereby to rapidly traverse said plunger to its working position by means of said valve member, and valve means for admitting fluid behind said plunger to fill the space evacuated by the motion of said plunger by its mechanical engagement with said valve member.

2,281,373
DETECTING DEVICE
Joseph P. Naes, St. Louis, Mo.
Application October 25, 1939, Serial No. 301,168
10 Claims. (Cl. 177—311)



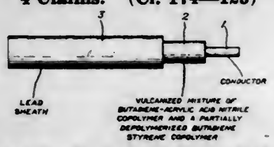
1. A detecting device comprising a series of denominational rows of keys movable from unoperated to operated positions and vice versa, means for holding said keys in their operated positions, a signalling device, a movable contact carrier, manually settable contacts arranged on said carrier, means for establishing electrical communication from said contacts to said signalling device during movement of said carrier, means controlled by said keys regulating electrical communication from said contacts to said signalling device and causing operation of said signalling device when said keys are in their operated positions during movement of said carrier, and other means controlling duration of operation of said signalling device after operation thereof has been initiated by depression of keys complementary to said contacts and of the same denominational and digital value.

2,281,374
THREADING MACHINE
Andrew B. Nesbitt and Samuel Webb, Pittsburgh, Pa., assignors to National Tube Company, a corporation of New Jersey
Application May 31, 1939, Serial No. 276,750
5 Claims. (Cl. 10—89)



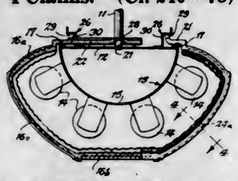
1. Screw threading apparatus including die heads for mounting the parts of a separable threading die, means oppositely mounting said die heads for opposite linear reciprocation, means for oppositely reciprocating said die heads, and means for limiting the approach of said die heads respecting one another, the last named means comprising a sleeve riding in opposite bottomed bores formed in alignment in oppositely facing parts of said die heads, pins inside said sleeve and respectively bearing on the opposite bottoms of said bores and a wedge working against the adjacent ends of said pins.

2,281,375
ELECTRICAL INSULATION
Paul Nowak, Berlin-Charlottenburg, Germany, assignor to General Electric Company, a corporation of New York
Application July 2, 1940, Serial No. 343,562
In Germany July 8, 1939
4 Claims. (Cl. 174—125)



1. An electrically insulated conductor, the insulation of which comprises a vulcanized mixed polymer of butadiene and acrylic acid nitrile and a partially depolymerized mixed polymer of butadiene and styrene as a plasticizer therefor.

2,281,376
ELECTRIC LIGHTING FIXTURE
Albert J. D. Ohm, Buffalo, N. Y., assignor to Markel Electric Products, Inc., Buffalo, N. Y., a corporation of New York
Application February 21, 1941, Serial No. 379,958
4 Claims. (Cl. 240—78)

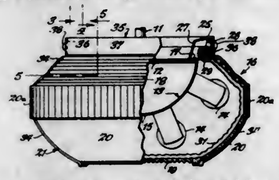


1. An electric lighting fixture of the character described including a body, a light source, an elongated diffuser for modifying the light emitted by said light source, said diffuser comprising a plurality of preformed sections arranged end-to-end and having end sections which are closed at their outer ends and open at their inner ends, means carried by said body for providing spaced longitudinally extending guides, each of said end sections having a transversely extending flange at its closed end and having spaced longitudinally extending flanges which are movable along said guides and which cooperate with the latter to support said sections in a predetermined assembled relation and means on said body for releasably engaging the transversely extending flanges on said end sections to hold said sections against movement off said guides.

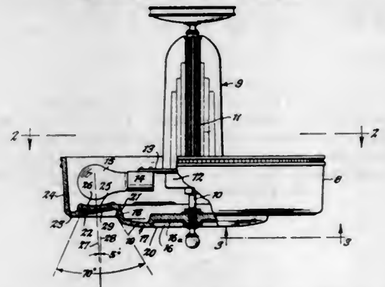
2,281,377
ELECTRIC LIGHTING FIXTURE
Albert J. D. Ohm, Buffalo, N. Y., assignor to Markel Electric Products, Inc., Buffalo, N. Y., a corporation of New York
Application February 21, 1941, Serial No. 379,959
5 Claims. (Cl. 240—78)

1. An electric lighting fixture of the character described including a body, a light source, an elongated diffuser for modifying the light emitted by said light source, said diffuser comprising a plurality of preformed sections arranged end-to-end and including end sections having closed outer ends and open inner ends, longitudinally

extending angle members carried by said body which provide spaced guides, said end sections being formed at their closed ends with transversely extending end flanges and with longitudinally extending side flanges which are movable along said guides and which cooperate with the latter to support said sections in a predetermined assembled relation and U-shaped members having legs pivotally connected to said angle members adjacent their ends and normally occupying horizontal positions in which transversely extending body portions cooperate with said end flanges to hold said end sections against movement off said guides, said members being movable about their pivots to release said end flanges and permit removal of said sections from said guides.



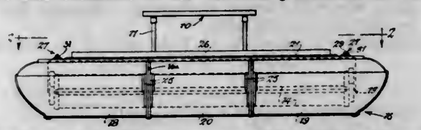
2,281,378
ELECTRIC LIGHTING FIXTURE
Albert J. D. Ohm, Buffalo, N. Y., assignor to Markel Electric Products, Inc., Buffalo, N. Y., a corporation of New York
Application February 21, 1941, Serial No. 379,960
4 Claims. (Cl. 240—106)



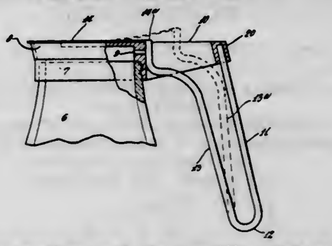
1. An electric lighting fixture of the multilamp type including an inverted bowl which, throughout the greater part of its extent, has a low light transmission characteristic, integral portions of the bottom wall of said bowl having a high light transmission characteristic and being formed to provide lenses, one for each lamp, to direct diverging beams of light downwardly, said lenses being so arranged that the beams thus produced merge at a point below the fixture to illuminate a predetermined area brightly and uniformly.

2,281,379
ELECTRIC LIGHTING FIXTURE
Albert J. D. Ohm, Buffalo, N. Y., assignor to Markel Electric Products, Inc., Buffalo, N. Y., a corporation of New York
Application May 5, 1941, Serial No. 391,905
3 Claims. (Cl. 240—78)

1. An electric lighting fixture of the character described including a body, a light source mounted on said body, a diffuser for modifying the light emitted by said light source comprising a plurality of pre-formed sections, including an end section, arranged horizontally end-to-end on said body to provide an elongated assembly and having longitudinally-extending side flanges, means for providing parallel, longitudinally-extending guides for said side flanges at opposite sides of said body, and an element carried by and adjustable lengthwise of said body, said element having a head which may be tightened to secure the element in its various positions of adjustment and which is engageable with said end section to hold it in the desired position on said body, said guides permitting said sections to be assembled on said body and to be removed therefrom only by moving them lengthwise in substantially the same horizontal position in which they are supported and then only when said end section is elevated to disengage it from said head.

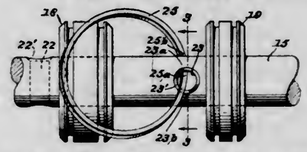


2,281,380
DISPENSING DEVICE FOR CONTAINERS
Axel H. Peterson, Kewanee, Ill.
Application November 16, 1938, Serial No. 240,744
6 Claims. (Cl. 65—31)



5. A dispensing and drip cutting device for containers of viscous liquids comprising a body portion having a discharge opening at one side thereof, a closure having an edge thereof slidable over and across said opening and adapted to cut away the drip therefrom, and a spring forming a handle having one end connected to said body portion and having the other end arranged to hold said closure yieldably normally closing said opening said closure being retracted toward said handle when subjecting the handle to operating pressure.

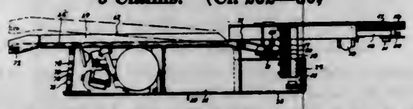
2,281,381
RINGED SHAFT-MOUNTED PISTON
Best Pratt and Clarence J. Smith, Chicago, Ill., assignors to Brake Equipment & Supply Company, Chicago, Ill., a corporation of Illinois
Application November 12, 1941, Serial No. 418,784
6 Claims. (Cl. 309—1)



1. A shaft and a piston carried thereby, said piston having a peripheral groove for the reception of a split piston ring and said shaft having a diameter such that the ring cannot be spread sufficiently to pass said diameter without danger of breakage or permanent distortion, said

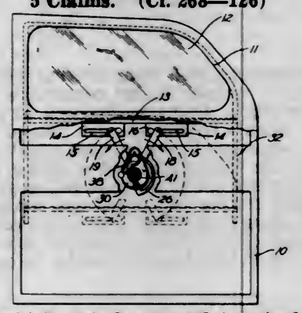
shaft having a portion of reduced cross-section which will pass the ring without undue spreading of the ring.

2,281,382
KERF-CUTTING MINING MACHINE
Thomas E. Pray, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application September 26, 1940, Serial No. 358,509
5 Claims. (Cl. 262—30)



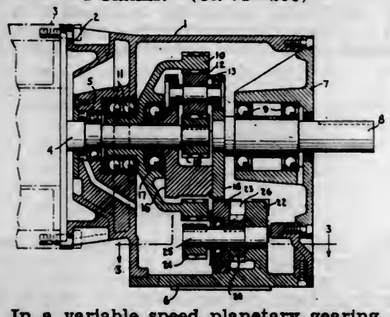
1. In a mining machine, a machine body slidable on the mine bottom, including a motor and flexible feeding mechanism driven thereby, cutting mechanism disposed in front of said motor and driven thereby, including a horizontally disposed cutter chain-carrying cutter bar disposed in a plane above said machine body, cuttings-collecting means comprising a trough telescopically mounted along the side of said cutter bar for endwise engagement with the mine wall, and an endless conveyer mounted along the top of said machine body arranged to receive the cuttings from said trough and discharge them to the rear of said machine body.

2,281,383
VEHICLE WINDOW REGULATOR MECHANISM
Robert Raphaël, Colombes, France
Application July 4, 1939, Serial No. 282,803
In France July 9, 1938
5 Claims. (Cl. 268—126)



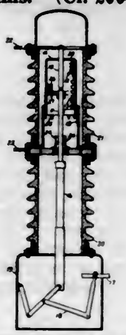
1. A vehicle window regulator including a bracket, a pair of swinging arms adapted to be connected at their outer ends to a window, a sector member on the inner end of one arm having inwardly extending teeth, a segmental member on the inner end of the other arm having outwardly extending teeth whereby the teeth of both members face in the same general direction, said members being overlapped, a pivotal element carried by the bracket and common to and extending through each of the members, and an operating member having a part fixedly carrying a pair of superposed gears which latter are located between the inner circumference of the sector member and the periphery of the segmental member, the teeth of one of said gears meshing with the teeth of the sector member and the teeth of the other gear meshing with the teeth of the segmental member, whereby to cause the arms to simultaneously swing toward or away from each other according to the direction of rotation of the gears.

2,281,384
VARIABLE SPEED DRIVING MEANS
Edward T. Ross, Newark, N. J.
Application February 21, 1939, Serial No. 257,598
4 Claims. (Cl. 74—293)



1. In a variable speed planetary gearing, the combination with a gear casing, of a driving shaft journaled therein, a driven shaft journaled in said casing, a sun gear fixed to said driving shaft, a series of planetary gears rotating about the axis of said driving shaft and each planetary gear revolving about its own axis, said planetary gears meshing with said sun gear, an internally-toothed external ring encircling and meshing with said planetary gears, said ring being journaled in said casing to rotate about said driving shaft, said ring being clear of said driving shaft, a spider supporting said planetary gears, said spider being journaled in said ring to rotate about said driving shaft but to clear said driving shaft.

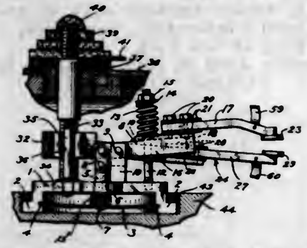
2,281,385
ELECTRIC CIRCUIT BREAKER
Jacques Marie Saint-Germain and Georges Balachowsky, Paris, France, assignors to General Electric Company, a corporation of New York
Application May 17, 1940, Serial No. 335,828
In France June 22, 1939
5 Claims. (Cl. 200—146)



1. An electric circuit breaker for high voltage power circuits including relatively movable interrupting contacts, an auxiliary electrode movable adjacent to the arc gap formed between said contacts, a resistor, said resistor being electrically connected between said auxiliary electrode and one of said contacts, actuating means for said relatively movable contacts and said auxiliary electrode, said relative movement of said contacts and said auxiliary electrode causing first, formation of a predetermined length of arc gap and arcing between said interrupting contacts and finally, reduced arcing between said electrode and one of said contacts, and means

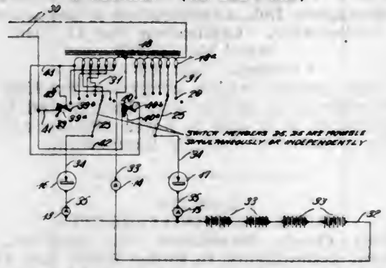
including an arc-extinguishing fluid for extinguishing in sequence said arcs so that the circuit is completely opened.

2,281,386
THERMOSTATIC CONTROL
Morris A. Schwartz, Los Angeles, Calif.
Application April 2, 1940, Serial No. 327,448
7 Claims. (Cl. 200—138)



1. In a thermostatic control, a base member, a thermostatic element mounted on the base member, a pair of levers fulcrumed on said base so that their fulcrums are close to adjacent ends thereof and having engageable contacts on their other ends, means for operatively connecting an end of one of the levers and the thermostatic element, spring means resisting movement of one of said levers in one direction.

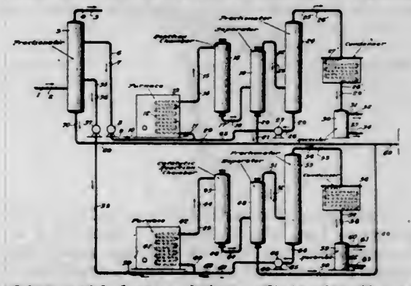
2,281,387
TAP SWITCH MECHANISM
Richard E. Sears, Cleveland, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Application August 3, 1940, Serial No. 350,925
9 Claims. (Cl. 171—314)



5. In an electrical system of the character described, a transformer having input conductors connected thereto and having a winding with two sets of taps, a pair of delivery circuits, a tap switch mechanism including two sets of contacts connected with said taps, two movable switch members, and means for either simultaneously or independently moving the switch members over the contacts to connect variable portions of said winding in the delivery circuits, and switch means for said input circuit so arranged with respect to said switch members that said input circuit is opened or closed at said switch means only when each of said switch members is moved to a predetermined position.

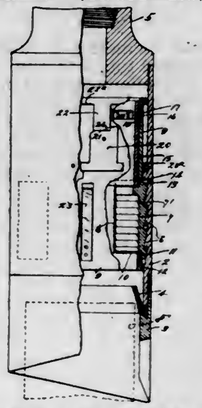
2,281,388
TREATMENT OF HYDROCARBON OILS
Jean Delattre Seguy, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application December 12, 1938, Serial No. 245,152
7 Claims. (Cl. 196—50)

5. A process for treating crude petroleum which comprises fractionating said petroleum to produce overhead gasoline of at least 70 octane number, light and heavy intermediate fractions and residuum, cooling, condensing and collecting said overhead gasoline, thermally reforming said light intermediate fractions to produce gasoline of at least 70 octane number, catalytically



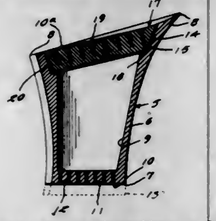
cracking said heavy intermediate fractions to produce gasoline of at least 70 octane number and fractionating resultant vaporous products independently of said crude petroleum, and thermally cracking said residuum along with residual liquids produced in the reforming and catalytic cracking operations to produce coke.

2,281,389
ROTARY RELEASING FISHING TOOL
Donald U. Shaffer, Brea, Calif., assignor to Shaffer Tool Works, Brea, Calif., a corporation of California
Substituted for abandoned application Serial No. 362,965, October 26, 1940. This application October 25, 1941, Serial No. 416,554
7 Claims. (Cl. 294—102)



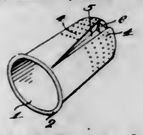
1. A fishing tool of the class described including a pair of relatively axially shiftable assemblies one including a slip cage having longitudinally deep blocks fixed on its upper wall portion and the other having a locking means to positively hold the cage in a slip retracting position and which is rotative relative to the cage and includes a part whereby to fully release the cage for a full and unobstructed axial shift stroke instantly upon a slight turn of the lock means from engagement with the coordinate cage; said locking means including isolate, axially long, longitudinal lugs with plane meeting ends to abut the cage blocks, and means on one lug to prevent rotation of the lugs relatively in one direction; the cage having closed top recesses for the lugs.

2,281,390
COMPOSITION SHOE HEEL
Cy Isidore Simon, Chicago, Ill.; now by judicial change of name Cyrus Swift
Application October 5, 1939, Serial No. 298,111
9 Claims. (Cl. 36—34)



1. A method of constructing a hollow composition shoe heel which includes forming a shell of composition material having the upper end of its inner face formed with a rabbet and the lower end of its inner face integral with a closure having spaced openings, forming an insert of composition material provided with recesses opening at its upper surface and corresponding in contour to the contour of the rabbet, and then bonding the insert to the surfaces of the rabbet.

2,281,391
THIMBLE THREAD CUTTER
Norman V. Stratton, St. John's, Newfoundland
Application July 11, 1940, Serial No. 345,004
1 Claim. (Cl. 7—14.5)

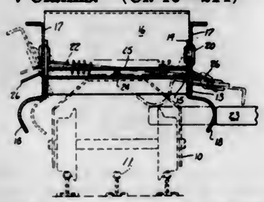


In a thimble including a hollow cylindrical body and a rounded top, a thread cutter comprising a pair of projections formed on the body and extending along its length from said top to the base of the body, said projections having spaced flat confronting faces providing a thread receiving groove extending longitudinally of the body with the latter providing the bottom wall of the groove, said projections merging laterally in rounded formation into the body and gradually increasing in thickness from the said base to said top to increase the depth of the groove accordingly, said groove increasing in width from its lower end to its upper end, and a beveled blade bridging the groove adjacent said top and fixed to the body wall and said confronting faces for disposal transversely of the groove at an upward inclination, with its cutting edge flush with the outer faces of the projections.

2,281,392
BOILER COMPOUND
Edward Lewis Smead, Mexico City, Mexico, and Samuel Schmucker Sadtler, Springfield Township, Montgomery County, Pa., assignors to Henex, S. A., Mexico City, Mexico
No Drawing. Application June 30, 1937, Serial No. 151,318
5 Claims. (Cl. 252—180)

1. The process of obtaining boiler compounds from the juice of plants of the agave species which comprises preparing a juicy pulp from said plants, pressing the juice therefrom, then subjecting the juice to fermentation by organisms normally present on the plant, then adding a compound selected from the group consisting of sodium hydroxide and calcium hydroxide to neutralize the product, thereby forming salts, filtering the product and concentrating the filtrate to at least 20° Baumé.

2,281,393
SELF-UNLOADING TOY VEHICLE
Richard G. Smith, Amsterdam, N. Y., assignor to The Lionel Corporation, New York, N. Y., a corporation of New York
Application April 20, 1940, Serial No. 330,675
7 Claims. (Cl. 46—214)

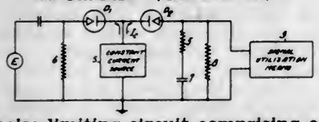


1. A toy car having a body provided with a side wall pivoted to swing outwardly and downwardly, spring means acting to hold the side wall vertical, a centrally pivoted, normally horizontal bottom, and means interconnecting the side wall and the bottom so that when the side wall is swung downwardly it causes the bottom to tilt in the same direction.

2,281,394
OXY-ESTERS OF ALPHA-BETA ACIDS AND UNSATURATED ALCOHOLS
Ben Edmund Sorenson, Upper Darby, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 17, 1940, Serial No. 335,789
9 Claims. (Cl. 260—484)

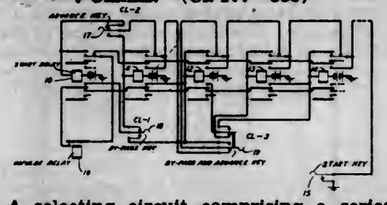
1. The process which comprises reacting an alkyl ester of an alpha beta unsaturated lower dicarboxylic acid and a lower olefinic alcohol in the presence of metallic magnesium.

2,281,395
NOISE LIMITING CIRCUITS
Charles Travis, Wyndmoor, Pa., assignor, by mesne assignments, to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application July 27, 1939, Serial No. 286,903
In Great Britain August 26, 1938
20 Claims. (Cl. 250—20)



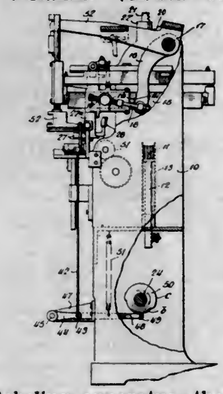
1. A noise limiting circuit comprising a source of signals and a utilization means therefor, signal transfer means therebetween including a serially connected non-linear impedance means, means for supplying said non-linear impedance means with a biasing current, whereby said transfer means is rendered substantially non-conducting for signals exceeding predetermined cut-off amplitudes, and frequency selective circuits operatively associated with said non-linear impedance means for varying said cut-off amplitudes according to a function of the signal frequency.

2,281,396
RELAY SELECTING CIRCUIT
Edward L. Vibbard, St. Albans, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 3, 1940, Serial No. 327,573
7 Claims. (Cl. 177—353)



1. A selecting circuit comprising a series of relays, impulsing means, circuits interconnecting said relays and said impulsing means for operating said relays in succession in response to successive operations of said impulsing means, the operating circuit for each relay including a back contact of that relay, a front contact of the immediately preceding relay and a back contact of each of the remaining relays.

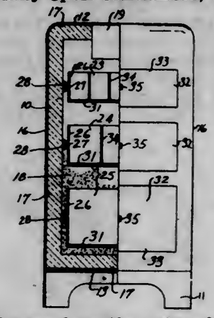
2,281,397
LABELING APPARATUS
George W. von Hofe, Bound Brook, N. J., assignor to New Jersey Machine Corporation, Hoboken, N. J., a corporation of New Jersey
Application May 16, 1940, Serial No. 335,464
7 Claims. (Cl. 271—60)



1. In a labeling apparatus, the combination of a traveling label carrying means reciprocable over a given path between two terminals, and operating means for reciprocating said label carrying means between said terminals, said operating means, without interruption of its own operation, being arranged to temporarily arrest the travel of said label carrying means in one direction at a predetermined point between said terminals and to effect a continuous travel of said carrying means in the opposite direction.

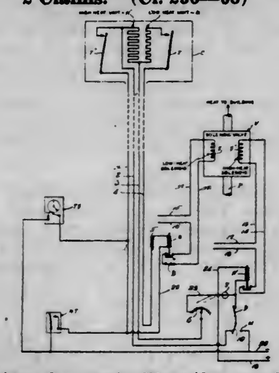
2,281,398
REFRIGERATION UNIT
Percy E. Walley, Corwith, Iowa
Application November 6, 1939, Serial No. 303,042
1 Claim. (Cl. 62—89)

A small refrigeration unit for preserving medicines, comprising a body providing a normally closed chamber, heat insulation material lining said chamber, a cooling unit in an upper portion of said chamber, a plurality of substantially open containers in said chamber each adapted removably to receive articles such as vials to be cooled, said containers being mounted one above the other in spaced apart cooling areas of the chamber and beneath and in spaced relation to said cooling unit, each of said containers being at least partially removable from said chamber, means constituted as separate and distinct openings in said body and heat insulating material through which each of said substantially open containers individually can be made accessible outside of said body independently of others of said substantially open containers, an insulating



wall upon a forward portion of each of said substantially open containers for insertion into one of said openings in said body and heat insulating material in closing relation to the opening, and an insulating closure member upon each container adjacent the corresponding insulating wall for sealing closed the corresponding opening in said body, each insulating closure member having overall area to provide a margin thereof projecting beyond the marginal edges of the corresponding insulating wall adapted to be engaged against the body of said refrigeration unit in surrounding relation to the corresponding opening.

2,281,399
HEAT CONTROL
Joseph Warren Wattles, 3rd, Canton, Mass., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application January 7, 1939, Serial No. 249,792
2 Claims. (Cl. 236—68)



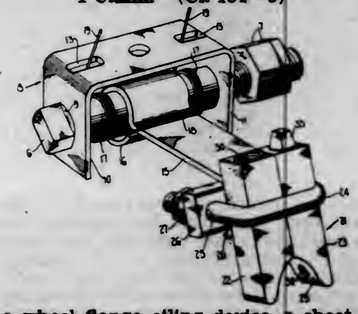
1. A system for controlling the supply of heat exchange to a zone at high or low rates comprising a casing having radiation characteristics similar to those of the zone for exposure to similar weather conditions outside the zone, control switches for regulating said heat supply at high

and low rates respectively, electrical actuating means for operating the control switches, two thermostats in said casing, two heaters in said casing, and an energizing circuit for each of said electrical actuating means including in series switch means operated by one of said thermostats, one of said casing heaters, and one of said electrical actuating means, the casing heater in the energizing circuit for the electrical actuating means for the high rate control switch supplying heat to the casing at a higher rate than the other casing heater.

2,281,400
LUBRICATING DEVICE

Henry B. Welby, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan

Application April 10, 1940, Serial No. 328,920
1 Claim. (Cl. 184—3)



In a wheel flange oiling device, a sheet metal supporting arm having one end rebent to cylindrical form to provide a journal bearing for mounting said arm, the other end of said member being transversely bent to provide a hook portion having an outer supporting face, a wheel flange lubricating shoe extending transverse to said supporting arm with a side face abutting said supporting face, and a removable clamping means surrounding and securing together said shoe and said hook portion.

2,281,401
LUBRICATING OIL COMPOSITION

Chester E. Wilson, San Pedro, Calif.

No Drawing. Application November 21, 1939, Serial No. 305,496
17 Claims. (Cl. 252—32)

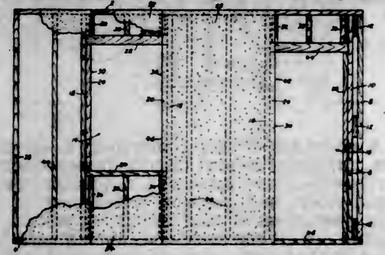
1. A lubricant comprising mineral lubricating oil and a small quantity of an oil-soluble metal compound of a thiophenol having an ionization constant in the order about 1×10^{-7} to about 1×10^{-11}, the oil containing also a small proportion of an oil-soluble detergent metal soap of a relatively strong saponifiable carboxylic acid.

2,281,402
FRAMING CONSTRUCTION

Francis Vaux Wilson, Jr., Morrisville, Pa., and John W. Germond, Trenton, N. J., assignors to Homasote Company, Incorporated, Fernwood, Ewing Township, N. J., a corporation of New Jersey

Application October 12, 1939, Serial No. 299,052
3 Claims. (Cl. 20—4)

1. A method of constructing a prefabricated wall section having a wall opening therein and adapted to be assembled with other wall sections in the erection of a building, comprising the steps of arranging framing members about said opening so that the center line of cripples above said opening are in line with the inner surface of jamb studs on opposite sides of said opening, applying a single continuous sheet of wall forming material to one face of the framing, cutting said continuous sheet of material along lines adjacent the inner surfaces of the jamb studs and adjacent the upper and lower edges of the opening to leave said opening unobstructed and to form a piece of material equal in width to the distance between the center lines of said cripples, applying a portion of the piece of material so removed to the opposite face of said framing above the opening so



that the edges thereof lie on the center lines of said cripples, cutting another sheet of wall forming material along a single straight line to form a straight edge on each portion thereof and securing said portions to the opposite face of said framing with said straight edges flush with the inner surfaces of said jamb studs and extending along the center lines of said cripples adjacent the edges of the material removed from the sheet applied to the opposite face of the framing.

2,281,403
UNIVERSAL JOINT

Sven Gustaf Wingquist, Remningstorp, Sweden

Original application September 28, 1940, Serial No. 358,921. Divided and this application April 11, 1941, Serial No. 388,158. In Sweden July 16, 1940
5 Claims. (Cl. 64—17)



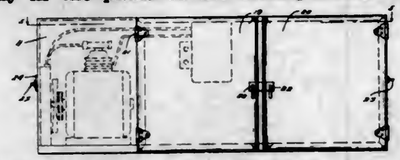
1. A universal joint having one centre of deflection, comprising a driving member, a driven member, axially projecting lugs on each of said members, races on said lugs, power transmitting roller bodies between proximate races on said lugs, a rigid connecting member placed inside said lugs, four crosswisely placed teeth on said connecting member, and tooth spaces in said lugs in mesh with said teeth.

2,281,404
PORTABLE ELECTRIC REFRIGERATOR

Lewis Wurster, Gashland, Mo., assignor of twenty-five per cent to Elwood A. Jewell and twenty-five per cent to Arthur G. Jewell, both of Kansas City, Kans.

Application January 31, 1941, Serial No. 376,888
1 Claim. (Cl. 62—116)

A refrigerator comprising a rectangular shaped case having insulated walls forming a storage compartment, one of said walls having a closure providing access to the compartment and said compartment having a refrigeration freezing unit therein, an extension on one end of the case forming a compartment adapted to contain a mechanical refrigerating unit including an electrically operated motor, the top, bottom, front and rear walls of the extension being substantially in the plane of the corresponding walls

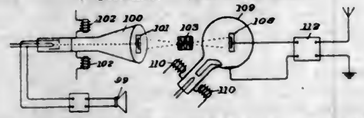


of the case, and the outer end wall of the extension being open, a foraminous cover for said outer end wall of the extension to admit air to the interior thereof, a rigid bar transversely at the outer end of the extension, a handle secured to the bar, and a second handle at a relative opposite end of the case.

2,281,405
METHOD AND APPARATUS FOR TRANSMISSION OF SIGNALS

Robert Lloyd Barrish and George Barrish, Pittsburgh, Pa.

Application May 11, 1938, Serial No. 207,332
6 Claims. (Cl. 179—1.5)

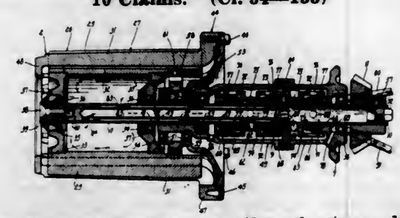


1. A signalling method which comprises recording signal impulses and converting them through periodic omissions of some recorded impulses into other signal impulses, one of the steps being continuous and one being intermittent, the periodic omissions being of such high frequency that the converted signal retains an approximate resemblance to the recorded impulses.

2,281,406
APPARATUS FOR TREATING THREAD OR THE LIKE

Richard F. Bergmann, Lakewood, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware

Application September 28, 1939, Serial No. 296,937
10 Claims. (Cl. 34—153)

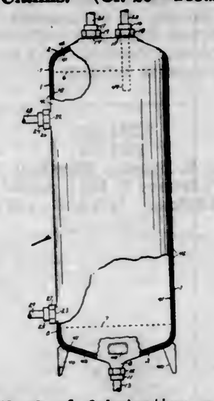


1. A thread-advancing thread store device comprising a frame member; a first set of spaced, longitudinally extending bar members; means supporting said first set of bar members in rotatable relation to said frame member; a second set of spaced, longitudinally extending bar members alternating with the bar members of said first set but mounted for rotation about an axis in inclined relation to the axis of rotation of said first set, said second set of bar members surrounding a portion of said frame members; supporting means characterized by a concave web portion extending inward of the device as a whole rigidly connected to said second set of bar members at one end thereof, said supporting means being disposed about said frame member; and, disposed within the periphery of and at a substantial distance from the ends of said second set of bar members, bearing means rotatably supporting the supporting means for said second set of bar members from said frame member.

2,281,407
METHOD OF MAKING ENAMELED CONTAINERS

John A. Bohnsack, Youngstown, Ohio, assignor, by mesne assignments, to Porcelain Steels, Inc., Cleveland, Ohio, a corporation of Ohio

Application April 25, 1939, Serial No. 269,946
2 Claims. (Cl. 29—148.2)



1. The method of fabricating a sheet metal range boiler which includes forming a sheet metal tubular boiler body and a pair of sheet metal heads having tubular edge portions, disposing the edge portion of one head in abutting relation with one end of the body and integrally welding it thereto by flash welding, tooling off the interior flash fin to a surface by a tool projected into the opposite open end of the body, providing a perforation in said head; disposing the edge portion of the other head in abutting relation with the other end of the body and integrally welding it thereto by flash welding, tooling off the interior flash fin of the last named welding operation to a surface by a tool projected through the said perforation, causing the said surfaces to be sufficiently smooth for vitreous enamel to flow completely thereover and adhere thereto, and coating the entire inside surface of the boiler including said tooled surfaces with vitreous enamel.

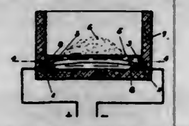
2,281,408
METHOD AND APPARATUS FOR MANUFACTURE AND TREATMENT OF GLASS AND ANALOGOUS SUBSTANCES

Edouard Virgile Borel, Romont, Switzerland, assignor to Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France

Application February 11, 1939, Serial No. 255,829
In Great Britain February 14, 1938
18 Claims. (Cl. 13—6)

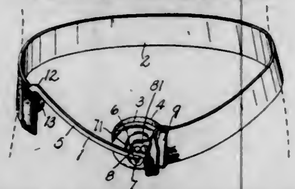
15. In a method for the discontinuous manufacture of glass, the steps of supplying a relatively small mass of molten glass making mate-

rials to the chamber of a furnace, passing electrical current through said molten materials to heat the same, the density of said electrical current being relatively uniform throughout said mass when the latter is relatively shallow, adding raw glass making materials to said mass and melting the same to increase the depth of the molten mass until said chamber is filled to a



desired relatively high level while increasing the density of electrical current in restricted zones of said mass adjacent the bottom and side walls of the chamber in relation to the density of the electrical current in the remainder of the mass outside of said zones and thereby creating restricted high intensity heat zones in said mass, and maintaining said level until the entire molten mass is refined.

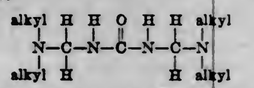
2,281,409
TRUSS
Thomas E. Brooks, Marshall, Mich.
Application February 7, 1941, Serial No. 377,780
3 Claims. (Cl. 128—102)



3. A truss for hernia, comprising a pad for application to the affected area, a rod including a pivoting arm supporting said pad, said arm extending laterally and terminating in an outwardly offset lever arm, said lever arm being adapted to engage the hip of the wearer as a fulcrum, said lever arm being effective when force is applied to the rod tending to tension the same peripherally of the wearer's body to rock said pad arm about said fulcrum and swing the pad inwardly toward the affected area, and a body encircling band secured to said lever arm and to the rod to apply tension to the rod and thereby effect said rocking action.

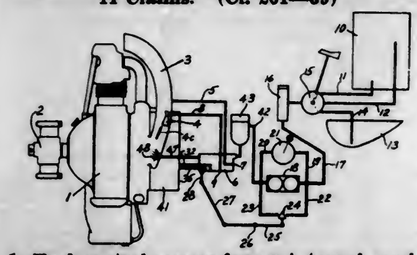
2,281,410
RUBBER HYDROHALIDES STABILIZED WITH AMINOMETHYL UREAS
William James Burke and Franklin Traviss Peters, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 2, 1940, Serial No. 321,916
12 Claims. (Cl. 260—735)

2. A composition of matter which includes a rubber hydrohalide and 1%—10% of material of the formula:



wherein the alkyl groups have 1 to 20 carbon atoms.

2,281,411
FUEL CONTROL APPARATUS FOR INTERNAL COMBUSTION ENGINES
John F. Campbell, Dayton, Ohio, assignor to George M. Holley and Earl Holley
Application March 2, 1938, Serial No. 193,598
11 Claims. (Cl. 261—39)



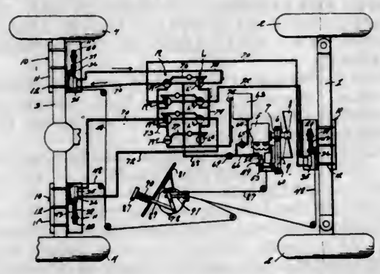
1. Fuel control means for an internal combustion engine comprising an air induction passage, means in said passage responsive to air flow therethrough to provide a differential fluid pressure proportional to air flow, a source of liquid fuel under pressure, and a conduit connecting the source with said induction passage, said fuel conduit including means responsive to fuel flow to provide a differential fluid pressure proportional to the rate of fuel flow, a device subject to and movable by the air differential pressure, a second device subject to and independently movable by the fuel differential pressure, a flow regulating valve controlling the effective capacity of the fuel conduit, a servomotor for operating said valve, means shiftable by the first device to positions determined by the measured rate of air flow, independently movable means shiftable by the second device to positions determined by the measured rate of fuel flow, and linkage means interconnecting the two last named means with the servomotor to move said valve to increase or decrease the capacity of said conduit depending upon whether the measured rate of fuel flow is respectively less or greater than that required to provide a predetermined variable fuel air ratio with the measured rate of air flow.

2,281,412
BRUSH
Henry Cave and Alfred L. Le Febvre, Hartford, Conn., assignors to The Fuller Brush Company, Hartford, Conn., a corporation of Connecticut
Application June 28, 1939, Serial No. 281,672
10 Claims. (Cl. 15—182)



1. A brush including an arbor, a brush strip comprising a separately formed grooved base with bristles projecting therefrom spirally wound on said arbor, means for securing said strip at one end to said arbor, a holder ring rotatably mounted upon said arbor at the other end of said brush strip and having a groove extending across the inner end thereof, a laterally projecting end from said base extending into said groove, and means for securing said holder against rotation in any position to which it may be turned to place opposite ends of the coils in line lengthwise of the arbor to obtain a set of complete coils thereby to effect a balance of the entire brush structure on all sides of its axis.

2,281,413
MOTOR VEHICLE JACK
Court B. Chaffee and Scott R. Melton, Memphis, Tenn.
Application January 22, 1941, Serial No. 375,519
8 Claims. (Cl. 254—86)



1. In combination with a vehicle having a motor driven power take-off and wheel supported axles, a jack unit secured to an axle, said unit including a cylinder and a piston in the cylinder, a pump including a rotary drive element, a fluid reservoir, means for conducting fluid under pressure from the reservoir to the jack cylinder and for returning the fluid from the cylinder to the reservoir by and upon operation of the pump, means for controlling the flow of fluid to and from the reservoir, supporting means for the pump facilitating movement of the rotary drive element thereof into operative connection with said power take-off for the driving of the pump, and means operated by the piston of the jack unit for breaking the connection between the drive element and power take-off after a predetermined movement of the piston of the jack unit.

2,281,414
COMBINED BRIDGE PLUG AND DRILLABLE WHIPSTOCK
James M. Clark, Basile, La., assignor to Continental Oil Company, Ponca City, Okla., a corporation of Delaware
Application November 7, 1940, Serial No. 364,667
1 Claim. (Cl. 255—1.6)

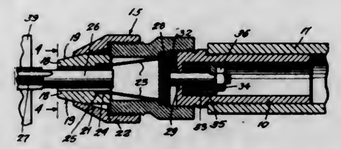


A combined bridge plug and whipstock including in combination a body member formed of concrete, said concrete comprising cement and an aggregate of hard material, a pipe formed of relatively soft drillable alloy fixedly embedded axially of said body member, aligning transverse ducts formed in said body member and said pipe adjacent the lower end of the body, said pipe being formed adjacent its upper portion with a left hand thread, said body member provided with an inclined surface at its upper end.

2,281,415
POLYESTER AMIDES
Donald Drake Coffman, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 7, 1939, Serial No. 302,318
12 Claims. (Cl. 260—75)

1. A polymeric reaction product of a linear polyamide-forming composition comprising a member of the class consisting of polymerizable monoaminomonocarboxylic acids and mixtures of diamine and dibasic carboxylic acid and a linear polyester-forming composition which comprises a diprimary glycol having at least one hydrocarbon substituent attached to the chain of atoms separating the hydroxyl groups; the said polymeric reaction product being one which can be formed into fibers showing by characteristic X-ray patterns orientation along the fiber axis.

2,281,416
TOOL HOLDER
George H. Cote, Bridgeport, Conn.
Application June 10, 1941, Serial No. 397,352
13 Claims. (Cl. 10—89)

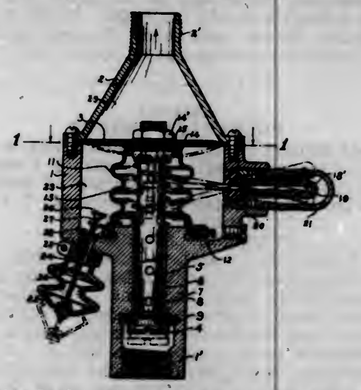


1. A device of the type described comprising a carrier for holding a threading tool; means for securing said carrier to a turret of a screw machine or the like for axial and rotary movement relative thereto; means for rigidly holding said carrier against rotary movement while permitting axial movement thereof, said means being rendered inoperative to hold said carrier against rotary movement after the same has been axially moved a predetermined distance relative to said turret; and means to yieldingly restrain rotary movement of said carrier operative in both directions after the same has been axially moved relative to said turret a distance greater than said predetermined distance.

2,281,417
SAFETY VALVE
David A. Darby, Wichita Falls, Tex., assignor of one-half to George F. Smith, Wichita Falls, Tex.
Application May 24, 1939, Serial No. 275,547
7 Claims. (Cl. 137—153)

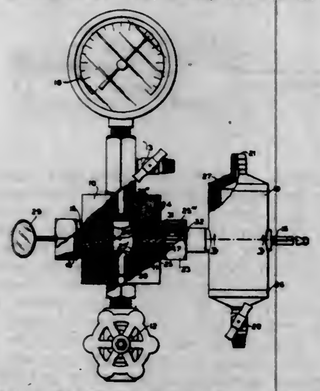
1. In a pressure valve of the character described, a body having two compartments therein, a diaphragm disposed within said body between said compartments and responsive to pressure in said compartments, a valve attached to said diaphragm and normally held open by said diaphragm when under pressure, manual means for opening said valve, resilient means tending to close said valve, a valve stem for said

valve, and a bellows within one of said compartments and forming a vapor tight compartment



and attached to the valve stem at an end thereof.

2,281,418
APPARATUS FOR DETERMINING THE DEW POINT OF GASES UNDER PRESSURE
William M. Deaton and Ellis M. Frost, Jr., Amarillo, Tex.
Application October 14, 1939, Serial No. 299,440
6 Claims. (Cl. 73—51)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

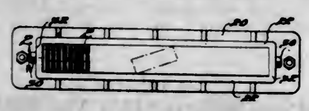


4. Means for determining the dew point of a gas under predetermined pressures which comprises a body member having a chamber, a plate-like member of low thermal resistance having a reflecting surface and mounted within said chamber, said chamber having a transparent wall portion opposite said reflecting surface and through which condensate formations on said surface may be observed, means for differentially cooling said reflecting surface to a temperature at which vapor condenses on a portion only of said surface to produce a readily discernible contrast between portions of said surface, temperature indicating means operatively associated with said reflecting surface for indicating the temperature of the portion on which condensate is formed, means for conducting gases into said chamber and directing the same against said reflecting surface, means for controlling the quantity and pressure of the gases flowing into said chamber, and pressure indicating means operatively associated with said chamber for indicating the pressures of the gases within said chamber.

2,281,419
COMPOSITION OF MATTER AND PROCESS FOR PREVENTING WATER-IN-OIL TYPE EMULSIONS RESULTING FROM ACIDIZATION OF CALCAREOUS OIL-BEARING STRATA
Melvin De Groote, University City, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
No Drawing. Application March 6, 1940, Serial No. 322,537
24 Claims. (Cl. 252—8.55)

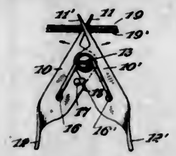
1. A process for preventing water-in-oil type emulsions resulting from acidization of calcareous oil-bearing strata, which consists in introducing into the cognate fluids of a well prior to emergence, a water-soluble, surface-active, alkaline earth-resistant polyglycol ether characterized by freedom from any polybasic carboxy acid radical, and which is derived by reacting an alkylene oxide with a water-insoluble hydroxylated ester of a higher molecular weight carboxy acid.

2,281,420
BUILT-UP ABRASIVE
Joseph C. Drader, Detroit, Mich., assignor to Michigan Tool Company, a corporation of Delaware
Application April 15, 1936, Serial No. 74,451
1 Claim. (Cl. 51—204)



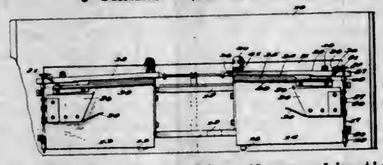
A tool for finishing gears or the like having a body portion and a plurality of teeth formed thereon, each of said teeth comprising a single abrasive element of a form conjugate to the teeth to be produced, each of said abrasive elements and said body portion having a plurality of mating serrations extending along the cooperating surfaces thereof to form an interlocking joint therebetween.

2,281,421
SHEET METAL CLAMP
Hartvig A. Duncan, Garden City, N. Y.
Application July 18, 1941, Serial No. 403,001
3 Claims. (Cl. 85—5)



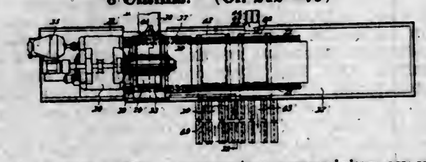
1. A sheet metal clamp comprising two members pivotally attached to each other intermediate of their ends, one end of each said member being extended into a narrower bite member, and resilient means carried by said device adapted to maintain said bite members in cross-position with respect to each other with their extremities extended outwardly from each other.

2,281,422
CUTTING MACHINE
Ronald W. Du Val, Petersburg, Va.
Application August 29, 1941, Serial No. 408,899
9 Claims. (Cl. 164—45)



9. In a trimming machine, the combination of a frame and bench, said frame comprising a wall extending upwardly at an inclination from said bench, a pair of work-receiving beds mounted on said inclined wall, for relative adjustment toward and from each other to accommodate different sizes of work, a trimming mechanism comprising a movable knife and a fixed knife carried by each of said beds, work retaining and positioning means movably mounted adjacent each of said pairs of knives, means to actuate said movable knives and to move each of said work retaining means out of a work retaining position after a trimming operation comprising a treadle linkage extending through said inclined wall, said wall being slotted to permit the passage therethrough said treadle linkage, as well as to facilitate escape of cuttings from the work, and said inclined wall having a supply magazine for work blanks at its upper portion, and a trough for the reception of trimmed blanks at its lower portion.

2,281,423
APPARATUS FOR HANDLING COILS
Klaus Egge, Mount Lebanon, Pa.
Application May 6, 1941, Serial No. 392,093
6 Claims. (Cl. 242—79)



3. Coil-handling apparatus comprising an uncoiler having a mandrel for receiving a coil of strip and supporting it during unwinding, a car movable axially of the mandrel, entry and discharge ramps terminating adjacent the path of said car, a coil-supporting platform pivotally mounted on said car, means on the car for tilting the platform from coil-receiving position to coil-transporting position, and means for tilting the platform from coil-transporting position to coil-discharging position on movement of the car from the mandrel to a position opposite the discharge ramp.

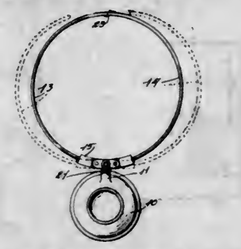
2,281,424
COIN BOX
Walter J. Englert, Rochester, N. Y., assignor to Flower City Specialty Company, Rochester, N. Y., a corporation of New York
Application February 7, 1939, Serial No. 255,091
2 Claims. (Cl. 229—8.5)

1. A coin bank comprising a four-sided tubular outer body open at both ends, and an inner body within said outer body, said inner body having three hingedly-connected side walls lying against the inner surfaces of three of the walls of said outer body, a flap hinged to the bottom edge of each of the three side walls of said inner body, said flaps overlapping each other and forming a closure for the bottom of said body, a flap hinged to the top edge of each of at least two of the three side walls of said inner body, said flaps overlapping each other and forming a closure for the top of said body, the outermost one of the top-hinged flaps having a coin-insertion slot therein, the flap beneath said coin slot being mounted for downward swinging movement upon insertion of



a coin, one of the top-hinged flaps and one of the bottom-hinged flaps each having hinged to that edge of the flap which is adjacent the fourth side of the inner body a supplementary flap, the two supplementary flaps extending toward each other, partially closing the fourth side of the inner body and being located between and abutting against the inner surfaces of the two opposite side walls of said inner body to prevent inward collapse of said side walls toward each other, at said fourth side.

2,281,425
SKIRT MARKER
Simon Esecson, Malden, Mass.
Application June 17, 1941, Serial No. 398,471
2 Claims. (Cl. 33—9)



1. In a skirt marker, a base having an arm, a graduated standard supported by the arm, a member having a sleeve slidable on the arm, means for securing the slidable member in different positions of adjustment, blocks pivotally connected to the member having the sleeve, and curved arms each having a threaded connection with one of the blocks, one of the said arms having a pin projecting from its free end and adapted to coact with the end of the other arm when said arms are in operative position.

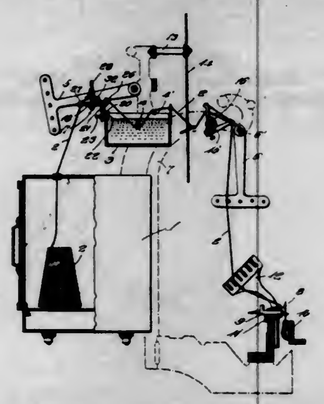
2,281,426
PISTON RING AND METHOD OF MAKING SAME
Warren H. Farr, Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 23, 1938, Serial No. 203,784
2 Claims. (Cl. 29—156.6)



1. The method of treating a preformed solid wall of circumferentially closed hardenable material for a piston skirt or a piston ring which

is relatively soft and unhardened, which includes heating only a radially inner portion of the wall to a hardening temperature without heating the remaining radial portion of the wall to such hardening temperature, quenching the heated inner portion before the full radial depth of the wall has been so heated or becomes hardened, to form an intervening relatively thin and sharply defined zone of demarcation between the hardened and unhardened portions such that the hardened portion appears to terminate abruptly in the unhardened portion, whereby the relatively soft outermost portion has not been hardened, is softer than the hardened portion and is as soft as any portion of the wall so that no hard radially outermost surface has to be removed to provide access to any softer under surface, and splitting the wall to make it contractible and expansible, said splitting being at a single location and across the radial depth of the wall.

2,281,427
THREAD TENSIONER
Walter J. Freer, Philadelphia, Pa.
Application January 16, 1941, Serial No. 374,755
6 Claims. (Cl. 66—146)



6. Thread tensioning means for a knitting machine comprising an elongated member adapted to be mounted vertically in position for sliding engagement by a portion of the thread intermediate the source of supply and the needles, and a weight loose about said member for resting upon portions of the thread at opposite sides of the member and urging the engaged portions of the thread downwardly to tension the thread.

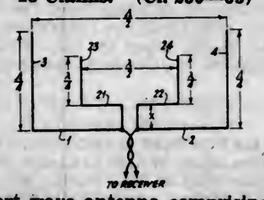
2,281,428
RAZOR STROP CONTAINER AND SUPPORTING DEVICE
John E. Gillespie, Washington, D. C., assignor of one-half to Sherman C. Shelton, Washington, D. C.
Application August 22, 1939, Serial No. 291,403
8 Claims. (Cl. 51—201)

1. A razor strop container and supporting device comprising a casing having gas confined therein, a movable plunger slidably positioned within said device, plunger moving means comprising a razor strop having one end connected to said plunger and passage means between the upper and lower parts of the casing through which the gas confined within the casing may flow from one side of the plunger to the other



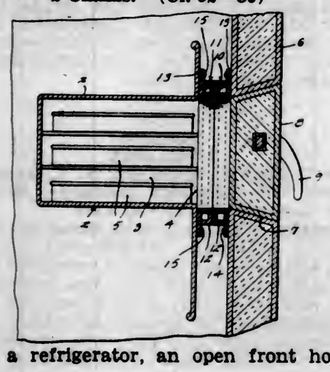
during movement of the plunger by the moving means.

2,281,429
ANTENNA
De Witt Rugg Goddard, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application November 26, 1938, Serial No. 242,440
13 Claims. (Cl. 250—33)



1. A short wave antenna comprising a pair of L shaped radiating conductors disposed in a common horizontal plane with an arm of each of said conductors extending toward each other along a common axis and their ends adjacent, and a transmission line connected to said conductors, each of said conductors having a length equal to half the length of the operating wave, the parallel arms of said conductors being so spaced that the energy radiated thereby is additive along a line perpendicular to said arms.

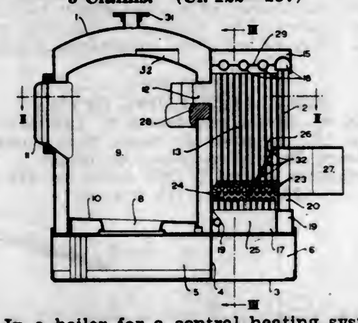
2,281,430
REFRIGERATOR
David M. Grant, St. Louis, Mo.
Application April 18, 1941, Serial No. 389,238
2 Claims. (Cl. 62—89)



1. In a refrigerator, an open front housing,

means therein to provide a freezing chamber having an entrance at its front, a hinged main door for closing the open front of the housing and formed with a door opening aligned with said entrance, an auxiliary door hinged to the main door for normally closing said door opening, a main sealing element secured to the inner face of said outer door and bordering throughout the inner end of said door opening, an inner sealing element secured to said means and bordering throughout said entrance, said elements coacting to seal said chamber to the interior of the housing when the main door is closed and said inner door when opened, permitting access to said chamber while the latter is sealed to the interior of the housing.

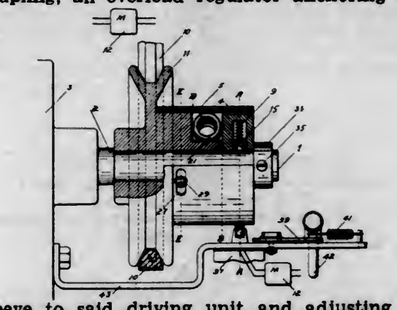
2,281,431
BOILER
Jan J. Groenema, The Hague, and Hermannus van Tongeren, Heemstede, Netherlands
Application September 21, 1939, Serial No. 295,984
In Germany September 21, 1938
3 Claims. (Cl. 122—187)



1. In a boiler for a central heating system, a water-jacketed furnace, walls forming a chamber adjacent said furnace, walls extending from near the top of said furnace and said chamber establishing a passageway therebetween, a continuous tubular heat exchange system lining most of the wall area of said chamber, said heat exchange system including a lower bank of tubes adjacent the lowermost wall of said chamber, said system occupying only a minor portion of the space of said chamber, means defining a flue opening in a wall of said chamber, the upper extremity of the opening lying above all of the tubes constituting said lower bank, and a baffle extending inwardly and downwardly from the uppermost point of said means defining a flue opening to a point below at least some of the tubes constituting said lower bank and below said flue opening, whereby burning gases issuing from the furnace through the passageway will be caused to contact the upper runs of the heat exchange system in the chamber and then before issuing through said flue opening to contact the lower bank of tubes.

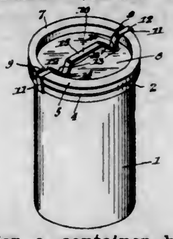
2,281,432
AUTOMATIC MECHANICAL POWER CUTOUT
Henry P. Grohn, Chicago, Ill., assignor, by direct and mesne assignments, of fifty per cent to John J. Pubins, seventeen and one-half per cent to Frank Kunza, seven and one-half per cent to Fred W. Grohn, and five per cent to Gus Skly, all of Chicago, Ill.
Application October 7, 1940, Serial No. 360,138
6 Claims. (Cl. 192—150)

1. In a power cut out, held axially on a shaft, a driving unit rotatable on said shaft, a plurality of resilient members in a plurality of recesses in said driving unit and, of lesser periphery and rigid on said shaft, a dependent member carrying a plurality of protruding lugs axially engaged counter-clockwise against said resilient members, a trickler pin in said dependent unit at right angles to said shaft, a sleeve encasing said driving and dependent units to form a flexible coupling, an overload regulator anchoring said



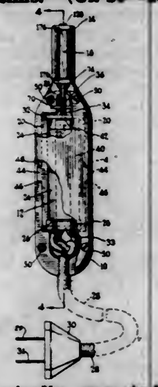
sleeve to said driving unit and adjusting the predetermined overload by adjusting the engaging pressure of the respective members, thus varying the relative position of said trickler pin, and when the predetermined overload is placed on said resilient members, said members compress sufficiently to partially release said trickler pin through an aperture in said housing and against the power switch which is directly in the path of said released pin.

2,281,433
JAR CLOSURE
Douglas William Gunn, Toronto, Ontario, Canada
Application July 8, 1939, Serial No. 283,496
1 Claim. (Cl. 215—91)



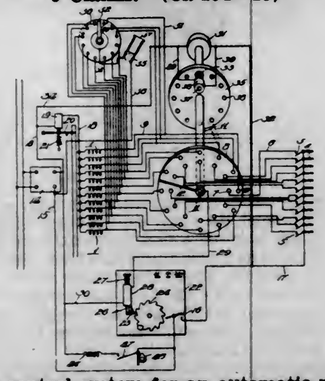
A closure for a container having shoulder means adjacent its open end, comprising a removable top having a countersunk central portion and a grooved peripheral portion, the grooves extending radially from the countersunk central portion to the outer edge of the peripheral portion, and spring means having hooked end portions to engage said shoulder means on the container, flat portions to lie in said grooves, two wide, open topped, V-shaped depending portions having fulcrums at their lower ends normally engaging and exerting pressure on the countersunk central portion of the top at points spaced inwardly from the peripheral portion of the top, and a normally flat bendable bridge portion between and connecting said depending portions and spaced apart from said countersunk portion of said top, the bridge portion serving when depressed toward said container, to move said fulcrums apart radially of the top, to move said depending portions about said fulcrums and to move the hooked end portions outwardly from engagement with said shoulder means.

2,281,434
SHAVING DEVICE
Jacob Gur Arye, New York, N. Y., assignor to Samuel Gorad, New York, N. Y.
Application September 23, 1936, Serial No. 102,064
15 Claims. (Cl. 30—43)



1. In a mechanically operated hair clipper and shaving device, a movable cutter having a longitudinal groove arranged thereon, electrically actuated cutter operating means including an armature, said armature freely movable in the operating means, a member disposed in the said cutter groove and secured to the armature for connecting the armature to the cutter and spring influenced means for maintaining the member in the groove in engagement with the cutter.

2,281,435
CONTROL SYSTEM FOR AUTOMATIC PHONOGRAPHS
Earle G. Henry, Chicago, Ill., assignor to Buckley Music System, Inc., a corporation of Illinois
Application March 5, 1941, Serial No. 381,769
9 Claims. (Cl. 194—15)



1. A control system for an automatic machine adapted selectively to play a series of records having a movable selective element and a coin-receiving controller, which control system comprises: a series of electro-magnets cooperating with said selective element to arrest it in various positions according to the selections to be made, a separate, normally-open energizing circuit for each electro-magnet including a manually-operable switch, and means controlled by said controller operating successively to close momentarily all of said circuits in which the said switches happen to be closed.

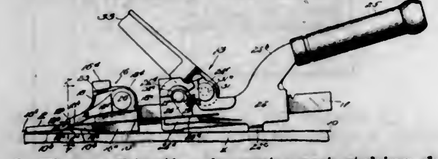
2,281,436
STABLE RUBBER HYDROCHLORIDE COMPOSITION
Albert Hershberger, Buffalo, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 1, 1939, Serial No. 307,982
8 Claims. (Cl. 260—735)

1. A composition of matter which includes a rubber hydrohalide and 0.5% to 12% polyethylene polyamine aliphatic acid salt based on the rubber hydrohalide, said amine containing 2 to 5 nitrogen atoms and said aliphatic acid having 12 to 20 carbon atoms.

2,281,437
AGE RESISTANT RUBBER HYDROCHLORIDE
Albert Hershberger, Buffalo, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 2, 1940, Serial No. 321,984
14 Claims. (Cl. 260—735)

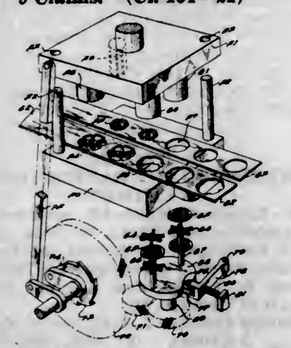
1. A composition of matter which includes a rubber hydrohalide stabilized with 5% of its weight of benzyl trimethyl ammonium stearate.

2,281,438
STRAP STRETCHING DEVICE
Charles G. Healet and Edwin C. Layman, Chicago, Ill., assignors to Acme Steel Company, Chicago, Ill., a corporation of Illinois
Application August 7, 1939, Serial No. 288,694
12 Claims. (Cl. 254—51)



1. The combination in a strap stretching device, of means for effecting relative movement of overlapping end portions of a strap passed around a package to draw the strap taut, and means located at one extreme end of said device and adapted upon a movement of said device bodily with respect to the package for severing one end portion of the strap.

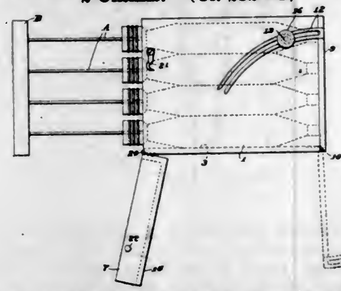
2,281,439
DIE SET FOR MAKING METAL-EDGE FILTERS
Paul Heftler, Chicago, Ill.
Application March 6, 1941, Serial No. 382,049
9 Claims. (Cl. 164—21)



5. A die set for forming a series of stamped

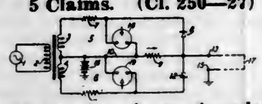
elements and stacking them in alternate sequence, comprising two separate means for stamping patterns in sheet stock, two separate means for blanking out the pattern-bearing portions of said stock and forming them into finished elements, and means for receiving said finished elements in alternate arrangement in a stack and for preventing them from rotating relative to each other after they are received by said means, the receiving means including two members for receiving the different elements from the two blanking means, the two receiving members being carried by mechanism which places each one alternately in receiving relation to one blanking means and then to the other.

2,281,440
BOBBIN RECEIVING AND HOLDING RECEPTACLE
William P. Homans, Canton, Mass., assignor to Atkinson, Haserick & Co., Boston, Mass., a voluntary association
Application May 26, 1939, Serial No. 275,872
2 Claims. (Cl. 232—1)



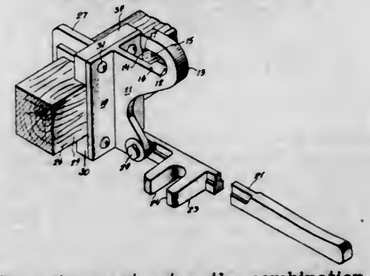
1. A receptacle having an open top compartment for receiving and holding in superposed order of lay a plurality of wound bobbins dropped from a winding machine, said compartment being of sufficient width and depth to hold a plurality of lays of wound bobbins parallelly disposed, the bottom of said compartment being appreciably longer than the full length of a single bobbin, the end of said compartment adjacent the tip ends of all contained bobbins being inclined to gradually lengthen said compartment as the distance increases from the bottom upwardly to the top thereof, the inclination of said end of the compartment being such that as wound bobbins are dropped and the tip ends thereof contact with said inclined end all bobbins so contacting will be directed to assume such position in said compartment that the bases thereof will lie beyond and out of contact with the winding on any bobbin next adjacent to it.

2,281,441
ELECTRIC SIGNALING
Arthur W. Horton, Jr., South Orange, N. J., and Milton E. Mohr, Jamaica, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 21, 1941, Serial No. 375,202
5 Claims. (Cl. 250—27)



1. The combination in an impulse system of an impulse conductor, an impedance element in circuit with said impulse conductor, two rectifying circuits including said impedance element in common, a source for producing an alternating voltage wave, means for applying said wave to said rectifying circuits, rectifiers in said circuits for causing current to flow in the same direction in said impedance element during both alternations of the cycle of said wave, discharge devices in both of said rectifying circuits which conduct and cease to conduct in response to the rise and fall of said wave, said devices when conducting serving to limit the current flowing in said impedance element, and means effective during the interval that said discharge devices are not conducting for producing an impulse in said impulse conductor.

2,281,442
SINEW EXTRACTING DEVICE
Louis Jacob, New York, N. Y., assignor to Fred Jacob, Bronx, N. Y.
Application September 18, 1940, Serial No. 357,275
4 Claims. (Cl. 17—11.3)



1. In a sinew extractor, the combination of a base plate, a vertical plate formed integrally with and at substantially right angles to said base plate and an inwardly turned projection formed integrally with the upper edge of said vertical plate forming a fixed jaw which receives the leg of a fowl, a downwardly disposed extension formed at the free end of said projection for preventing casual removal of the leg, an elongated lever hinged at its inner end to the lower edge of the vertical plate, and an integrally formed fixed jaw on the lever at a point spaced from the inner end thereof.

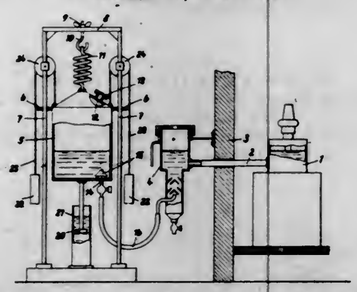
2,281,443
ROTARY OPERATED FASTENER INSTALLATION WITH ROTARY OPERATED FASTENER
Walter I. Jones, Belmont, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application December 26, 1940, Serial No. 371,638
12 Claims. (Cl. 24—221)



4. In a fastener installation of the class described, a plurality of apertured members to be fastened together, a rotary operative stud having a head bearing against the outer surface of one apertured member and a shank extending through all of the apertured members, a lateral projection carried by the stud and overlying the inner surface of the inner apertured member when the stud is turned to fastening position thereby to hold all of the apertured members

in close face-to-face engagement and stud-holding means located at the inner face of the installation to engage and hold the stud in fastening position while permitting release by positive rotation of the said stud.

2,281,444
FLOW REGULATOR
Victor Teodor Julin, Djursholm-Danderyd, Sweden
Application June 3, 1938, Serial No. 211,695
In Sweden June 5, 1936
1 Claim. (Cl. 137—68)



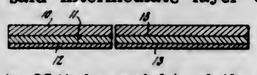
Apparatus for maintaining a constant level of a supply of liquid which is to be utilized, said apparatus comprising a vertically movable vessel for containing the supply of the liquid which is to be utilized, flexible conduit means connected with said vessel for conducting liquid therefrom for utilization, means for supporting said vessel and for altering the vertical position of the same to maintain the level of the supply liquid therein at about a constant absolute vertical height regardless of the amount of supply liquid contained in the said vessel, and means within the said vessel for preventing oscillations of the supply liquid within the said vessel from being transmitted through the said flexible conduit means.

2,281,445
SOLVENT-RESISTANT ETHYL CELLULOSE FILM
Toivo A. Kauppi, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application February 8, 1940, Serial No. 317,969
5 Claims. (Cl. 260—15)

1. An ethyl cellulose composition, capable of depositing flexible films which, when baked, are resistant to the softening and weakening effects of solvents, which consists essentially of a solution in mutual solvent of from 65 to 90 parts of medium ethoxy ethyl cellulose having an ethoxy content of from 43.5 to 46.5 percent and correspondingly from 35 to 10 parts of an organo-soluble and heat-convertible toluene sulphonamide-formaldehyde resin.

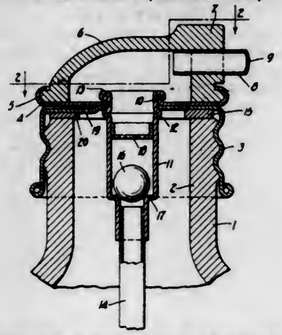
2,281,446
ELECTRICAL CONTACT
Clemens A. Laise, Tenafly, N. J.; Fidelity Union Trust Company, executor of said Clemens A. Laise, deceased, assignor to Callite Tungsten Corporation, Union City, N. J., a corporation of Delaware
Application January 7, 1937, Serial No. 119,378
13 Claims. (Cl. 200—166)

1. A composite member consisting of a layer of argentic material, an intermediate layer of cupric material and a base layer of ferric material, the said intermediate layer comprising



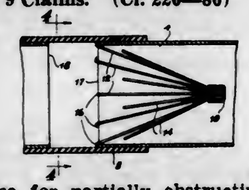
from 15% to 35% by weight of the composite member, and metallic means integrally uniting the same to the adjacent layers.

2,281,447
SPRAYER
Frank H. Maloney, Elmhurst, Long Island, N. Y., assignor to Brass Goods Manufacturing Co., Brooklyn, N. Y., a corporation of New York
Application November 15, 1939, Serial No. 304,453
5 Claims. (Cl. 299—97)



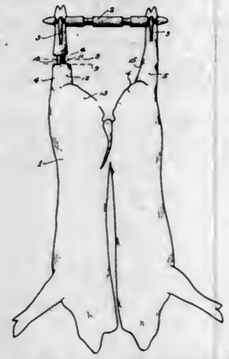
5. A sprayer comprising a spraying head and means for delivering thereto liquid to be sprayed, the spraying head including a rigid base member, a peripheral channel associated therewith, a resilient member resting at its bottom portion upon the base member and defining therewith the spraying compartment, a flange extending laterally from the said bottom portion of the resilient member and engaged in the said channel, and a nozzle extending through the resilient member.

2,281,448
DEVICE FOR PARTIALLY OBSTRUCTING PIPES
Alcide E. Mathey, Boston, Mass., assignor to Scully Signal Co., East Cambridge, Mass., a corporation of Massachusetts
Application September 17, 1941, Serial No. 411,164
9 Claims. (Cl. 220—86)



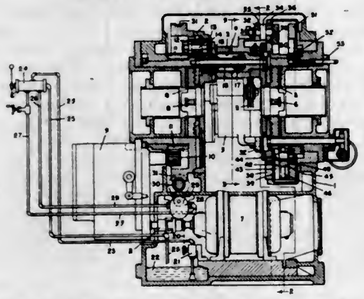
1. A device for partially obstructing a pipe, comprising three or more wire members, means for rigidly anchoring said members at an apex so that the members extend in a generally conelike formation, the said anchoring means being of relatively small cross-sectional dimension with respect to the cross-sectional dimension of the base of the conelike formation, the wire members being free at their outer ends and capable of being flexed from their normal position, the free ends of at least some of said wire members being bent radially outwardly to form hooklike engaging means, the projected area of the anchoring means and the wire members in the direction of the longitudinal axis of said device being less than three-quarters of the cross-sectional area as defined by the ends of said wire members.

2,281,449
HAM BUTCHERING
Harry H. McKee, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application March 1, 1940, Serial No. 321,674
4 Claims. (Cl. 17—45)



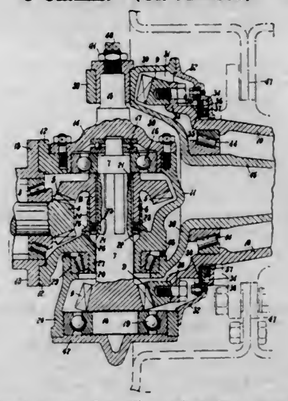
4. The method of manufacturing hams from freshly dressed animal carcasses and sides thereof which comprises suspending the carcass by the hind legs, severing the skin, meat and tendons at approximately the upper extremity of the fibular tarsal bones, chilling the carcass while suspended by the bones of the hind legs, thereafter cutting the bones at approximately the point of said severance and separating the hams from the body of the carcass.

2,281,450
ROTARY TOOL MACHINE
Edwin R. Motch, Jr., Cleveland, and Johan Gustaf Moohl, Cleveland Heights, Ohio, assignors to The Motch & Merryweather Machinery Co., Cleveland, Ohio, a corporation of Ohio
Application October 3, 1939, Serial No. 297,732
11 Claims. (Cl. 29—70)



1. In a rotary tool machine, the combination of a rotatable member carrying a plurality of rotary tools, cam means for moving said tools inwardly and away from a common center on rotation of said rotatable member, a worm wheel carried by said rotatable member, a worm meshing with said worm wheel and a fluid power motor for driving said worm member.

2,281,451
DRIVING GEAR FOR STEERING ROAD WHEELS OF MOTOR VEHICLES
Oliver Danson North, Hunton Bridge, and Percy Garibaldi Hugh, Watford West, England, assignors to Scammell Lorries Limited, Watford West, Hertfordshire, England
Application August 26, 1941, Serial No. 408,402
In Great Britain April 12, 1940
5 Claims. (Cl. 74—386)

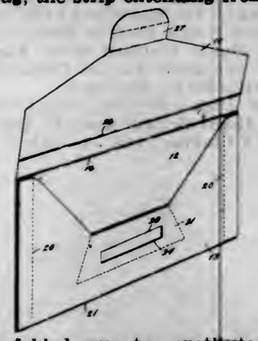


1. Driving gear for the steering road wheels of motor vehicles comprising an axle-housing, a driving axle in said axle-housing, a cup shaped housing fixed to said axle-housing, a gear wheel therein fixed to the driving axle, a cover on said housing, a further housing rotatable about and disposed beneath the base of the beforesaid housing, bearings in said cover and said lower housing, a vertical spindle supported at its ends in said bearings, a pair of gear wheels mounted on the upper and lower ends of said spindle, the upper gear wheel meshing with the gear wheel on the driving axle, a hollow annular steering head integral with said lower housing, an annular gear ring in said steering head meshing with the gear wheel in said lower housing, an upstanding steering pivot on said cover and a coaxial hollow depending pivot on said upper housing, a combined thrust and radial bearing in said lower housing receiving said hollow pivot and supporting said upper housing and axle-housing, a stub-axle fixed to said steering head and a wheel hub carrying said annular gear wheel and rotatable upon said stub-axle.

2,281,452
CLOSURE FOR FLEXIBLE RECEPTACLES
Nathan Ottinger, New York, N. Y.
Application November 25, 1938, Serial No. 242,130
3 Claims. (Cl. 229—84)

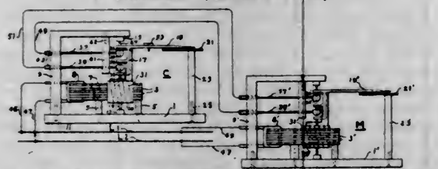
1. A carry-bag constituted of a single sheet of flexible material having two opposed parts to be joined together, said sheet of material having a plurality of tabs extending from the two opposed parts respectively to form the side elements of the article, the front part having a strip extending from substantially its median horizontal line and within the circumferential ambit of the article, an elongated opening of sufficient size to receive a plurality of the fingers of a hand, in at least one of said parts, a sheet of material constituting a backing for said opening and for abutment by the fingers of the hand extending through said opening, and a closure tab adapted for insertion into said opening in said part, so as to lie between the inner surface of said panel

and said backing sheet of material, to releasably close the bag, the strip extending from the front



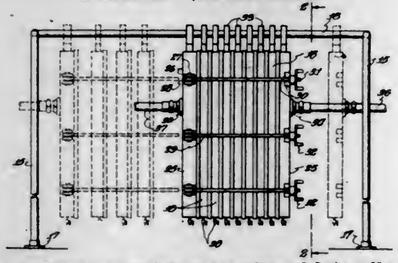
part being folded over to constitute a backing for the front part immediately rearwardly of the elongated opening in said part.

2,281,453
ELECTROMAGNETIC MOVEMENT REPEATING SYSTEM
Louis Petersen, Detroit, Mich.
Application May 11, 1939, Serial No. 272,991
9 Claims. (Cl. 177—351)



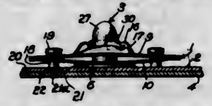
1. An electromagnetic movement repeating and amplifying system comprising, a variable control transformer device having a stationary primary winding and a movable secondary control winding mounted adjacent the primary winding for movement to variable inductive coupling therewith, means for actuating said secondary control winding into various inductive coupling relations with the adjacent primary winding in accordance with a quantity or condition to be measured, a cooperative device having a stationary primary winding, a movable secondary winding supported movably adjacent the primary winding of said cooperative device for variable inductive coupling therewith, conductive means for energizing the two primary windings from a suitable source of alternating current, conductive means forming a closed secondary circuit for connecting the movable secondary windings of said devices together in series relation so that current from the control secondary winding aids the secondary winding of the cooperative device to be automatically moved to a proper position to induce an alternating potential of equal amplitude and opposing polarity applied in the secondary circuit in response to a movement of the control secondary winding and thus balancing the current substantially to zero in the control secondary winding while moving the cooperative device to predetermined corresponding positions, impedance means in said secondary circuit providing biasing potentials in accordance with current flowing in said circuit while the system is in an unbalanced condition, an electronic amplifier, conductive means for applying said biasing potentials from said impedance means to the input of said amplifier, electromotive means mechanically connected with the movable secondary winding of the cooperative device for applying amplified power to forcefully move said secondary winding in accordance with the movements of the movable control winding, and means connecting the output of said amplifier to apply amplified power impulses to energize said electromotive means moving the secondary winding of said cooperative device while current is flowing in the series secondary circuit, the movement of said winding stopping when a balanced condition of the system is produced and current no longer passes through the impedance means.

2,281,454
MULTIPLE COLD MILK FILTER
George J. Polivka, La Grange, Ill.
Application June 14, 1939, Serial No. 279,179
3 Claims. (Cl. 210—188)



1. A filter comprising a series of laterally-assembled units, filtering means between the units, closures endwise of the latter, means to clamp the assembly firmly together, and upwardly directed means for removably suspending the assembly from a horizontal support.

2,281,455
ROTARY OPERATIVE FASTENER
Leonard A. Powell, Hyde Park, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application April 16, 1940, Serial No. 329,903
9 Claims. (Cl. 24—221)

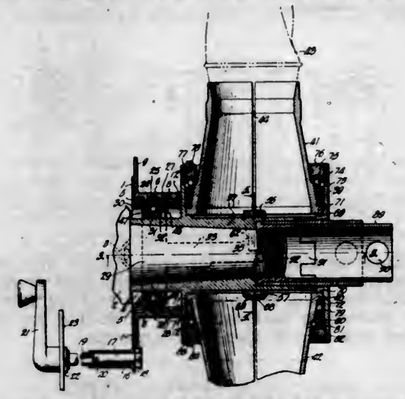


5. A spring unit for fastener cooperation with a rotating member of the type having a shank and at least one projection extending from said shank, said unit including a pair of superposed plates, said plates having aligned openings to receive a portion of the shank and the projection of the rotating member, one of said plates having an integral embossed portion in said spring on an arc concentric with the center of said opening providing a gradually rising cam surface, a depression, and a stop for cooperation with said projection during rotation of said rotating member in one direction, and one of said plates being flexible relative to the other during said rotative movement.

2,281,456
VARIABLE PITCH PROPELLER
Horace H. Roby, Wichita, Kans., assignor to Roby, Inc., a corporation of Kansas
Application October 19, 1940, Serial No. 361,884
12 Claims. (Cl. 170—163)

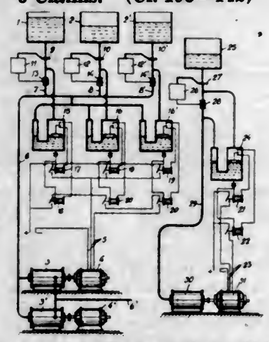
1. A controllable pitch propeller including in

combination a hub structure, blades rotatably mounted on the hub, a propeller shaft, a hub sleeve fixed to the shaft, levers pivoted on said sleeve within the projected perimeters of the blades, each of said levers having a short arm and a long arm, means engaging the short arms



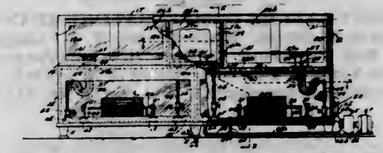
for rotating said blades, a thrust bearing having a rotating element and a non-rotating element, means connecting the long arms of said levers and said rotating thrust element, and means for moving said non-rotating thrust element to adjust said levers to control the pitch of the propeller blades.

2,281,457
AERATION OF FERMENTING WORT IN THE MANUFACTURE OF YEAST
Sven Olof Rosenqvist, Rotebro, Sweden, assignor to Svenska Jästfabriks Aktiebolaget, Stockholm, Sweden, a corporation of Sweden
Application January 19, 1939, Serial No. 251,819
In Sweden January 22, 1938
6 Claims. (Cl. 195—142)



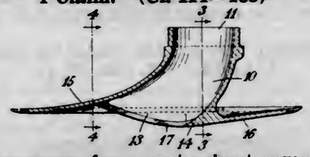
1. Apparatus for the aeration of fermenting wort in the manufacture of yeast, comprising, in combination, a fermentation vat, a variable speed air compressor, a valved delivery conduit communicating between the pressure side of the air compressor and the fermentation vat, in the delivery conduit and between the valve and the fermentation vat a device for measuring the amount of air being delivered to the fermentation vat, a program metering means with a continuously driven member which program metering means is connected to the measuring device and to the valve and adapted to vary the setting of the latter and hence to vary the quantity of air being delivered to the fermentation vat according to a predetermined program of air delivery, and a controlling pressure gauge responsive to air pressures in the delivery conduit in advance of and behind the valve to regulate the rate of speed of the air compressor.

2,281,458
MEAT AND VEGETABLE COOLING DEVICE
Theophilus Schadegg, Minneapolis, Minn.
Application September 22, 1939, Serial No. 296,168
29 Claims. (Cl. 62—37)



1. A cooling device having in combination, a cabinet, a chamber in said cabinet having an insulating wall, means in said chamber for cooling the same, a passage through said wall, means for delivering moisture-laden air through said passage, means in said passage having a surface for condensing moisture from said air as it passes into said chamber and an outlet for air from said chamber whereby the air which has been supplied to said chamber can pass therefrom and a circulation of air thus provided to maintain a fresh atmosphere.

2,281,459
WATER SCOOP FOR BOATS
Hubert Scott-Paine, Southampton, England
Application April 24, 1940, Serial No. 331,319
In Great Britain June 5, 1939
1 Claim. (Cl. 114—185)



A water scoop for a motor boat comprising a pipe having a wall and a flange-like body integral therewith, the pipe wall defining a curved conduit having an open end, the flange-like body disposed in an oblique relation to the axis of the conduit at its open end and the open end lying in the general plane of the flange-like body, one portion of the wall terminating in the general plane of said flange-like body and the opposite portion of said wall terminating out of said plane and there forming a cowl-like protuberance having at one side thereof a fairing surface tapering toward and terminating approximately in the plane of the flange-like body, a plurality of bars extending from the extremity of the protuberance across the open end of said conduit thereby constituting a grid for said conduit preventing ingress of debris to said protuberance.

2,281,460
METHOD OF MANUFACTURING CHILLED CAST IRON AND PRODUCT THEREOF
Oliver Smalley, Pittsburgh, Pa., assignor to Mechanite Metal Corporation, Pittsburgh, Pa., a corporation of Tennessee
No Drawing. Application April 14, 1938, Serial No. 202,133
9 Claims. (Cl. 22—213)

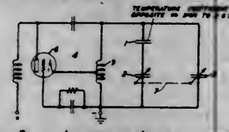
1. The method of producing a chilled casting

having a hard chilled outer zone and a gray inner zone which comprises introducing into the molten cast iron tellurium in an amount up to 2%, and casting the iron against a metal chill thereby increasing both the depth and the hardness of the chill over that which would be obtained in the absence of the tellurium and producing a sharp line of demarcation substantially free of mottling between the hard chilled outer zone and non-chilled gray inner zone of the casting.

2,281,461
TEMPERATURE COMPENSATING MEANS

Kenneth D. Smith, White Plains, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application September 24, 1941, Serial No. 412,069
3 Claims. (Cl. 250—36)



1. Means for temperature compensating a variable condenser throughout its capacity range, comprising a second variable condenser substantially similar to and mechanically ganged with said first-named variable condenser, a fixed condenser having a temperature coefficient opposite in sign to that of the two variable condensers connected in series with the second condenser, and means connecting the two series-connected condensers in parallel with the variable condenser.

2,281,462
NAIL FILE

Michael F. Smith, Los Angeles, Calif., assignor of one-tenth to George L. Schaeffer, Los Angeles, Calif.

Application May 5, 1941, Serial No. 391,919
2 Claims. (Cl. 132—76.4)



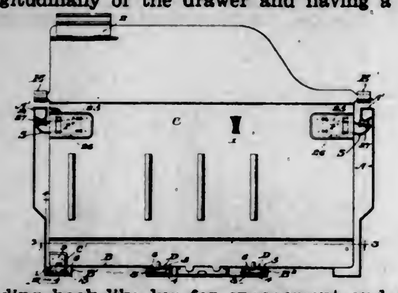
1. A handle member of an elongated flat character having a main recess extending along an intermediate portion of its length across the entire width of one of its edge portions, an auxiliary recess extending across said edge portion in a spaced relation to one of the ends of said main recess, thereby providing as seen from the side of the handle, an intact portion between said recesses, and a groove extending from end to end of the bottom of said main recess and through the mid-width of said intact portion; and a nail file of the elongated flat type fitted within said groove, a portion of the faces of said file being exposed for use by reason of said main recess, said file having a point which projects into said auxiliary recess in a sufficiently exposed position for use and is guarded against contact with the clothing by the parts of the handle adjacent to said auxiliary recess.

2,281,463
DIVIDER FOR FILING DRAWERS

Clarence W. Straubel, Youngstown, Ohio, assignor to The General Fireproofing Company, Youngstown, Ohio, a corporation of Ohio

Application June 6, 1941, Serial No. 396,953
13 Claims. (Cl. 129—16)

13. A divider for filing drawers shiftable to selected locations longitudinally of the sides and bottom of the drawer, comprising, divider locater means extending throughout substantially the length of the drawer, a divider plate adjustable longitudinally of the drawer and having a de-

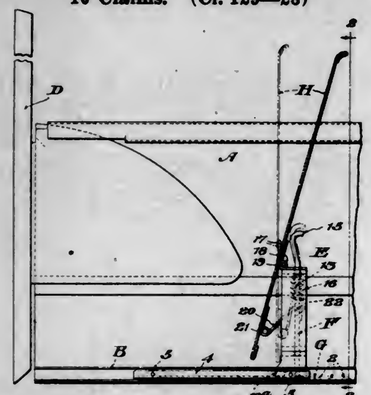


pending hook-like lug for engagement and disengagement with said locater means, and yielding means normally urging the plate transversely of the drawer to maintain said hook-like lug engaged with said divider locater means.

2,281,464
DRAWER FOLLOWER

Clarence W. Straubel, Youngstown, Ohio, assignor to The General Fireproofing Company, Youngstown, Ohio, a corporation of Ohio

Application June 6, 1941, Serial No. 396,954
10 Claims. (Cl. 129—28)



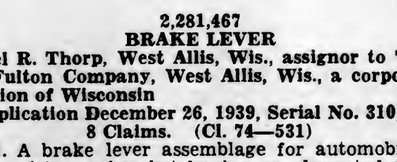
1. In a filing drawer or the like, means for automatically regulating the filing space relative to the drawer head, comprising, in combination with the drawer, follower locater means in the drawer, a space regulating follower slidable in the drawer relative to said locater means and including a follower plate supported on a medially disposed horizontal axis, latch means normally spring-urged toward the follower locater means, and an operating connection between the plate and said latch means, said connection being below said axis, automatically to actuate said latch means upon movement of the plate about said horizontal axis.

2,281,465
EXTENSIBLE FILING DRAWER

Clarence W. Straubel, Youngstown, Ohio, assignor to The General Fireproofing Company, Youngstown, Ohio, a corporation of Ohio

Application June 6, 1941, Serial No. 396,955
3 Claims. (Cl. 129—26)

3. A drawer for filing cabinets, comprising a main drawer body, a drawer head having a body extension slidably and telescopically interfitting with the bottom of the main drawer body, a compressor plate pivotally supported on the front end of the main drawer body, a link pivoted at one end to the drawer head above the point of pivotal support of the compressor plate and cooperating means respectively on the other

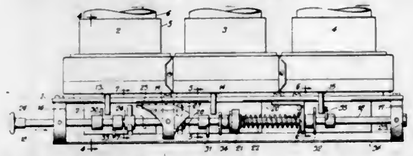


end of the link and on the front face of the compressor located above the points of pivotal support for the link and compressor plate to provide a sliding connection between the last mentioned end of the link and the compressor whereby movement of the drawer head relative to the drawer body controls the inward and outward movement of the compressor plate.

2,281,466
MULTIUNIT CUP DISPENSER

Clifford B. Terry, Flushing, N. Y., assignor to Lily-Tulip Cup Corporation, New York, N. Y., a corporation of Delaware

Application April 28, 1941, Serial No. 390,703
7 Claims. (Cl. 312—44)



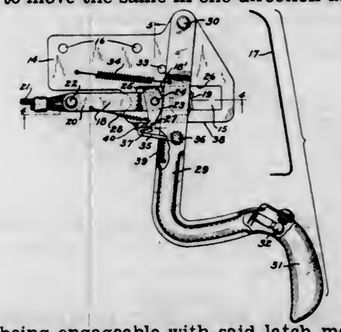
1. In a device for dispensing paper cups or the like articles, the combination of a plurality of relatively fixed dispenser units disposed in a longitudinal series, each of said respective units having a magazine for holding a supply of articles to be dispensed and mechanism for individually dispensing said articles therefrom, each of said individual dispensing mechanisms having a longitudinally reciprocable portion for effecting actuation thereof, a plurality of driving connections corresponding respectively to said reciprocable portions and constructed and arranged to impart reciprocal motion to said engageable portions for actuating said dispensing means, and means common to said plurality of driving connections for actuating the same, said driving connections and common actuating means being so constructed and arranged that said dispenser units are sequentially operated.

2,281,467
BRAKE LEVER

Joel R. Thorp, West Allis, Wis., assignor to The Fulton Company, West Allis, Wis., a corporation of Wisconsin

Application December 26, 1939, Serial No. 310,887
8 Claims. (Cl. 74—531)

1. A brake lever assemblage for automobiles, comprising, a bracket having an elongated surface, a slide element movable along and in proximity to said surface and having a tension connection with the brakes, a latch means carried by said element and being engageable with said surface to retain the brakes set, a lever swingably suspended from said bracket and having a pawl remote from the lever actuating handle, said lever being cooperable with said slide element to move the same in one direction and said

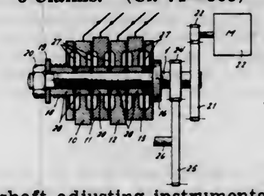


pawl being engageable with said latch means to release the same, and means for normally maintaining said lever in brake release position independently of the brakes.

2,281,468
WIRELESS RECEIVER

Johannes Antonius van Lammeren, Eindhoven, Netherlands, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware

Application July 22, 1939, Serial No. 285,896
In the Netherlands July 23, 1938
3 Claims. (Cl. 74—568)



1. In a shaft adjusting instrumentality, a rotatable control shaft, a series of substantially similar sleeve members mounted over said shaft in spaced axial relation, a plurality of control cam discs one for each of said sleeves, each of said cam discs being rotatably mounted on its respective sleeve member and so that each sleeve forms a hub for its cam disc, a plurality of thin resilient spacing diaphragms interposed between adjacent sleeve members, clamping means for clamping said sleeve members and said diaphragms to the control shaft whereby said shaft, sleeve members, and diaphragms rotate as a unit upon rotation of said shaft, said diaphragms being extended radially so as to act as spacers between adjacent cam discs, and resilient means for resiliently clamping together said spacing diaphragms and cam discs.

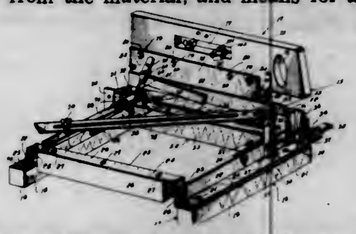
2,281,469
DADO, GAIN, AND MITER SAW

John P. Weddle and Joe W. Meyers, Weleetka, Okla.; said Weddle assignor of ten per cent to said Meyers

Application February 21, 1940, Serial No. 320,214
6 Claims. (Cl. 143—87)

4. A work holding frame comprising a guide for a cutting tool, a clamp element adjustably mounted beneath said guide to cooperate therewith for clamping a piece of material therebetween to be engaged by the cutting tool, said clamp element and tool guide combining to form

a clamp for holding the material and to remove warp from the material, and means for adjust-



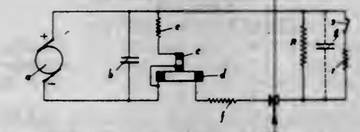
into the width of said tool guide for accommodating it to cutting tools of various sizes.

2,281,470

ELECTRICAL MEASURING INSTRUMENT

Ralph Tyrrell Wright, Chiswick, London, England, assignor to Evershed & Vignoles Limited, Chiswick, London, England, a British company

Application August 7, 1939, Serial No. 288,903
In Great Britain September 24, 1938
4 Claims. (Cl. 171—95)



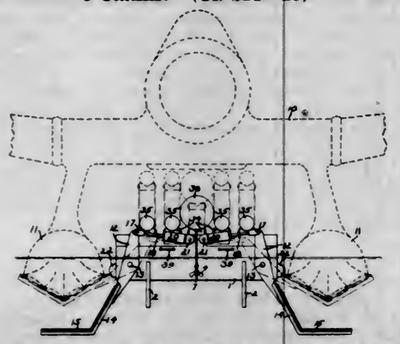
1. An apparatus for the measurement of high electrical resistance, comprising a source of unidirectional electric current, a rectifier connected to pass current flowing from said source through the resistance to be measured, and an electrical instrument for measuring the current flowing from said source to the resistance through said rectifier.

2,281,471

LOADING RAFT

Fred J. Baum, Glendale, and Eldon M. Wilson, Hermosa Beach, Calif., assignors to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California

Application January 4, 1941, Serial No. 373,076
3 Claims. (Cl. 214—13)



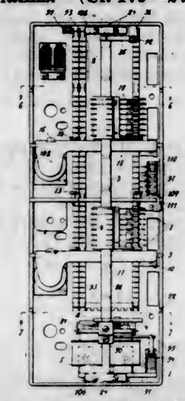
1. In a bomb loading rack wherein a buoyant hull carrying bombs is shaped to float between pontoons of a seaplane having bomb racks thereon, the improvement comprising a pair of arms pivotally mounted at each end of said hull, a cradle fastened to the end of each arm and shaped to fit under the lower surface of a pontoon, said cradle having lateral portions extending above the lowest portion of said pontoon on each side of said lowest portion, and means for moving said arms to engage said cradles with said pontoons to raise said pontoons and depress said hull in position to load said bombs into said seaplane, said cradles and said arms forming the sole vertical and lateral positioning and locking link between said hull and said pontoons, a bomb carrying table in said hull and means for raising said table to register bombs thereon with the racks on said seaplanes.

2,281,472

SWITCH FOR AUTOMATIC TELEPHONE PLANTS

Gotthilf Ansgarius Betulander, Stockholm, Sweden

Application December 20, 1939, Serial No. 310,117
In Sweden January 11, 1939
11 Claims. (Cl. 179—27.5)



1. A switch for automatic telephone plants comprising a rotatable non-slidable shaft, a plurality of groups of flexible contact brushes rigidly connected with said shaft, a bank of stationary contact springs adapted to cooperate with said rotatable contact brushes, said contact brushes being adapted, during rotation of said shaft, to rotate out of contact with said stationary springs, a rotating abutment associated with and participating in the rotation of each one of said groups of rotatable contact brushes, a number of stationary bridge electromagnets allotted individually to each one of said groups of rotatable contact brushes, a stationary abutment path operated individually by said bridge electromagnets and extending substantially in parallel with the path of movement of the apertaining rotating abutment, said abutment path, upon being operated, actuating said rotating abutment to flex the rotating contact brushes into contact with the selected stationary contacts.

2,281,473

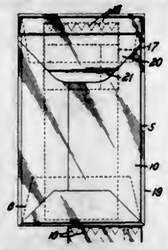
STERILE SURGICAL PACKAGE

John H. Brewer, Baltimore, Md., assignor to Hynson, Westcott & Dunning, Incorporated, Baltimore, Md., a corporation of Maryland

Application December 16, 1940, Serial No. 370,394
2 Claims. (Cl. 206—63.2)

1. A sterile package for surgical powders comprising an outer protective envelope having a closure, an inner sterile envelope for the surgical powder disposed within said outer envelope and removable therefrom through said closure, said inner envelope having perforations along one

edge thereof for dispensing the powder and being disposed with said edge adjacent the closure of said outer envelope, and a protective, readily removable sheath enclosing a portion of said en-



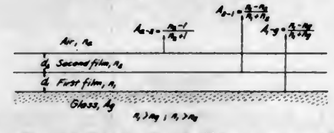
velope including the perforated edge of the same, said sheath serving as a closure for the dispensing openings and as a contamination preventing hand-hold for use in withdrawing said inner envelope from said outer envelope.

2,281,474

TREATING SURFACES OF LIGHT-TRANSMITTING ARTICLES, AND THE TREATED PRODUCTS

Charles Hawley Cartwright, San Gabriel, Calif., and Arthur Francis Turner, Newton, Mass., assignors to Research Corporation, New York, N. Y., a corporation of New York

Application March 20, 1939, Serial No. 263,014
9 Claims. (Cl. 88—1)



1. In the method of treating a normally partially light-reflective surface of a solid light-transmitting optical element to reduce the light-reflectance thereof which involves applying to said surface a light-transmitting layer, of a normally solid and stable inorganic substance, having an optical thickness and an effective index of refraction adapted to reduce reflection of light from said surface, the improvement which consists in forming said layer from at least two successively applied light-transmitting films of dissimilar normally solid and stable inorganic substances having indices of refraction differing from each other and from that of the material constituting the light-transmitting optical element, the substance constituting the film which is adjacent the surface of the optical element having a higher index of refraction than that of the substance constituting the outer film, and selecting such optical thicknesses for the films that the sum of the reflected amplitude vectors from the films and from the surface of the optical element is substantially zero.

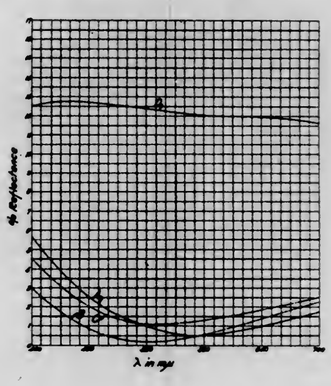
2,281,475

REDUCING REFLECTION OF LIGHT FROM SURFACES, AND ARTICLES SO PRODUCED

Charles Hawley Cartwright, San Gabriel, Calif., and Arthur Francis Turner, Newton, Mass., assignors to Research Corporation, New York, N. Y., a corporation of New York

Application August 4, 1939, Serial No. 288,458
6 Claims. (Cl. 88—1)

1. Process of improving the ruggedness and tenacity of a reflectance-diminishing light-transmitting layer of solid and stable metallic fluoride on a surface of a solid light-transmitting article, said layer having an optical thickness approximately one-fourth the wavelength of pre-selected light and an effective index of refraction approaching the square root of that of the article,



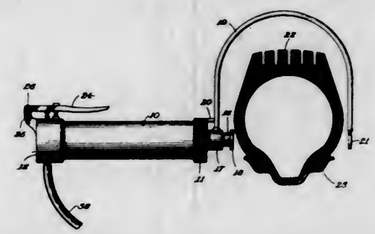
which comprises baking the layer on the article at a temperature between about 300° and about 500° C. at which the optical properties of the layer and of the article are substantially maintained and for a period of time sufficient to effect a substantial improvement in the ruggedness and tenacity of said layer.

2,281,476

TIRE COMPRESSOR

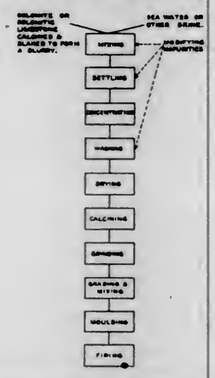
Thurman G. Casey, Oakland, Calif.

Application December 16, 1940, Serial No. 370,398
2 Claims. (Cl. 157—6)



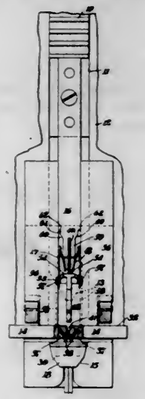
1. A tool for removing tires from rims comprising, an air cylinder, means at the rear end of the cylinder for admitting air to the cylinder, a cap closing the front end of the cylinder provided with an axial opening, a piston in the cylinder having a piston rod projecting through said opening, a guide tube for the piston extending from said cap, an enlarged head on the free end of the piston rod, an arched member fixed at its rear end to said guide tube and adapted to straddle a tire, an enlarged head on the free end of the member located opposite the head of the piston rod, and brace means connected to the member and to the cap.

2,281,477
MAGNESIA REFRACTORY
Heinz Henry Chesny, Worksop, Nottinghamshire, England
Application September 15, 1937, Serial No. 164,088
In Great Britain September 24, 1936
14 Claims. (Cl. 23—201)



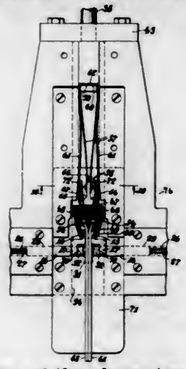
1. A dead burnt magnesium oxide clinker consisting of agglomerates of long and relatively thin particles.

2,281,478
ASSEMBLING MACHINE
Nathan Chirelstein, Chicago, Ill.
Application August 31, 1939, Serial No. 292,843
8 Claims. (Cl. 29—84)



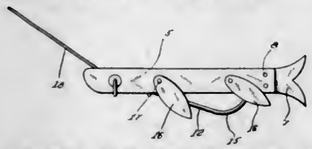
1. A machine for assembling conductor wires and contact blades in attachment plug caps, comprising a guide for the contact blades, means for positioning a plug cap at the end of said guide in position to receive contact blades directed by said guide, means for driving contact blades in said guide into a plug cap located by said positioning means, relatively separable doors intercepting said guide in front of said plug cap positioning means, said doors having wire retaining means located to receive the ends of wires extended through a plug cap located by said plug cap positioning means and means for effecting relative separation of said doors to spread the ends of wires engaged with said wire retaining means and in time to pass contact blades advanced by said contact blade driving means.

2,281,479
ATTACHMENT PLUG ASSEMBLING MACHINE
Nathan Chirelstein, Chicago, Ill.
Application March 13, 1940, Serial No. 323,656
7 Claims. (Cl. 29—84)



1. In a machine of the character disclosed, the combination of spreader slides opposed end-to-end, means for effecting relative separation and approach of said slides and spreader fingers pivotally mounted on said opposed slides and projecting therefrom to enter the cord passage in the end of a stretchable plug cap and the pivotal mounting of said spreader fingers on said slides permitting the rocking of a plug cap engaged thereon from a position with said plug cap standing in one plane to a position with said plug cap standing in another plane angularly related to the first.

2,281,480
ARTIFICIAL BAIT
Charles C. Clark, Marshall, Wis., assignor of forty per cent to George Kleinsteiber, Jr., Marshall, Wis.
Application September 23, 1940, Serial No. 357,960
4 Claims. (Cl. 43—39)

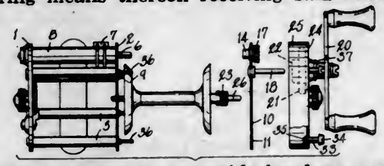


1. An artificial bait comprising an elongated body having longitudinal portions thereof spaced apart, a pin transversely of the body adjacent its front end, a hook pivoted on said pin and disposed between said longitudinal spaced portions of the body, and adapted for projecting outwardly at opposite sides of the body, means carried by the body and engaging the shank of the hook adjacent its pivoted end for supporting the hook against movement in one direction with the barb thereof protected by the body, and a towing line attached to the front end of the body and adapted to maintain the body in a position with the hook resting on said supporting means.

2,281,481
FISHING REEL
Earle D. Clickner, Kalamazoo, Mich., assignor to Shakespeare Company, Kalamazoo, Mich.
Application August 1, 1940, Serial No. 349,076
12 Claims. (Cl. 242—84.1)

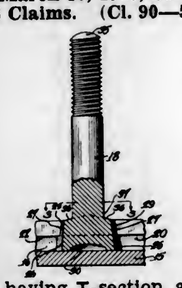
10. The combination in a fishing reel having rotatable actuating means associated therewith,

of a frame including a plurality of threaded pillars and an annular end member mounted thereon and fixedly secured thereto, a spool removable through said end member, a bearing supporting member removably engaged with said pillars, said bearing supporting member having bearing means thereon receiving said rotatable



actuating means, a removable head cap constituting a retaining member for said bearing supporting member, and securing elements threadedly engageable with the pillars mounted on said head cap for removal therewith and having a retaining connection thereto so that when released they are retained in assembled relation therewith.

2,281,482
COUPLING
Foster M. Crayton, Philadelphia, Pa.
Application March 30, 1940, Serial No. 326,949
8 Claims. (Cl. 90—59)



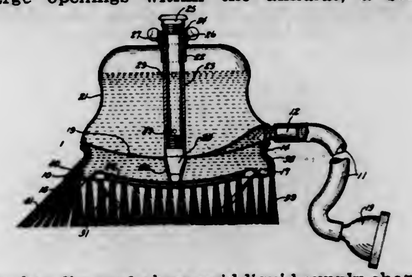
1. A fitting having T-section, adapted to move within the slot of a machine tool bed or table and having the ends of the T concaved facing in directions of the length of slot.

2,281,483
PROCESS OF PREPARING LAMINATED MATERIAL
Donald Edwards Edgar, Philadelphia, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Original application June 23, 1934, Serial No. 732,083. Divided and this application May 1, 1940, Serial No. 332,687
14 Claims. (Cl. 154—2)

1. In the process of preparing laminated materials wherein thin, non-porous sheets are joined by means of a thermoplastic adhesive, the improvement which comprises applying to at least one surface of one of the sheets as the sole adhesive a thermoplastic adhesive composition comprising a cellulose derivative and from 0.6 to 5 parts of a synthetic resin compatible therewith for each part of cellulose derivative, allowing the film to dry, and uniting the said surface to a second surface by means of heat and pressure.

2,281,484
DISH WASHING SPRAY HEAD
Flora H. Ellinger, Chicago, Ill.
Application November 10, 1939, Serial No. 303,740
4 Claims. (Cl. 299—84)

1. A spraying device comprising, a fresh liquid supply chamber having an annular series of lower liquid discharge slots directed toward a common axis and also having a plurality of lower discharge openings within the annulus, a soap

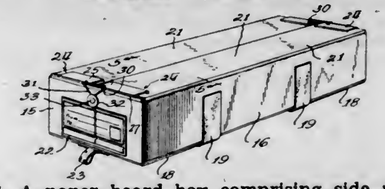


chamber disposed above said liquid supply chamber, and means for conducting soap from within said soap chamber through a plurality of lower discharge openings disposed within said annular series of slots.

2,281,485
SEPARATION OF SODIUM PHENOLATE FROM SODIUM SULPHITE
Albert Thomas Fellows, Irvington, N. J., assignor, by mesne assignments, to Allied Chemical & Dye Corporation, a corporation of New York
No Drawing. Application July 20, 1940, Serial No. 346,527
11 Claims. (Cl. 260—628)

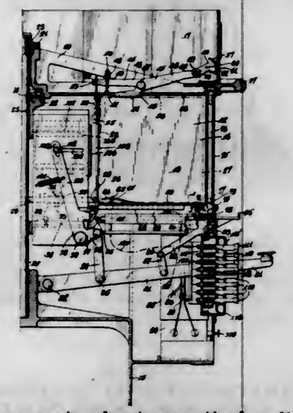
1. In the sulphonation process of synthesizing phenol from benzene involving the step of fusing sodium benzene sulphonte with caustic soda, the improvement which comprises separating sodium phenolate from sodium sulphite produced by said fusion by treating the fusion mass with a saturated monohydric aliphatic alcohol solvent.

2,281,486
FILE BOX CLOSURE FASTENING
Harry L. Fellowes, Chicago, Ill., assignor to Bankers Box Company, Chicago, Ill., a corporation of Illinois
Application September 15, 1939, Serial No. 294,996
10 Claims. (Cl. 229—46)



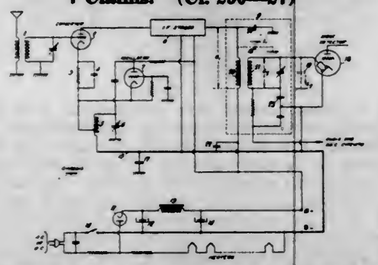
1. A paper board box comprising side walls, end walls, a bottom and a top closure in the form of lateral top flaps, carried by the side walls, adapted to lie edge to edge when closed, stiffeners applied to the end edge portions of such lateral top flaps, a hook carried by each stiffened end of each of said lateral top flaps, the two hooks at each end of the box opening laterally and away from each other, a cord locking button carried by each end wall at a point beneath and between said hooks, and a cord anchored to each end wall at a point adjacent the button carried thereby, each said cord being adapted to be tautly drawn and held by its button in a substantially triangular configuration in which it extends from the button, through the hooks, and thence back to the button, the cord and hook lying solely beyond the plane of the box end.

2,281,487
PHONOGRAPH DELIVERY MECHANISM
Maurice Finkel, Philadelphia, and William P. Schmid, Yeadon, Pa.
Application April 18, 1940, Serial No. 330,286
12 Claims. (Cl. 312—64)



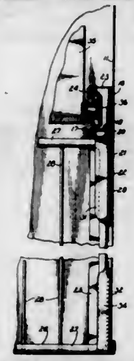
1. A rotary casing having vertical radial stalls adapted to hold cartoned phonograph records on the edge, an ejecting mechanism to eject the records from the stalls in ejecting positions, locking means for interlocking the casing and the delivery mechanism when the latter begins to operate, a lever adapted to control ejection of a phonograph record, a plurality of springs, one in each stall adapted to be downwardly pressed by a record in said stall, revoluble stops, one carried by each of the springs to present the stops beneath the casing, coin-controlled means for releasing the ejecting lever and hand-operated selective means cooperating with the revoluble stops to limit movement of the casing when a stall containing a record comes in line with an ejecting position.

2,281,488
RADIO RECEIVER
Ernest C. Freeland, Abington Township, Montgomery County, Pa., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application November 16, 1940, Serial No. 365,999
7 Claims. (Cl. 250—27)



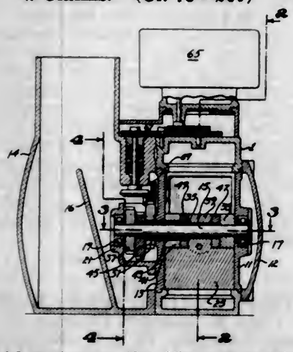
1. A radio receiver comprising a plurality of vacuum tube circuits, means for energizing said circuits directly from electric supply mains, said energizing means including a conductive connection between said mains and the anode circuits of said vacuum tubes, a metal housing or chassis for supporting the receiver components, means providing a low impedance radio frequency path between said conductive connection and said chassis, there being stray capacitance between said chassis and a relatively high potential radio frequency portion of the receiver, tending to cause undesired current flow in said low impedance path, and means including an impedance element connected between said chassis and the radio frequency portion of the receiver for causing substantially equal and opposite currents to flow in said path, thereby to prevent the building up of a radio frequency voltage across said path.

2,281,489
STORAGE CABINET
Edward M. Fritz, Grand Rapids, Mich., assignor to Grand Rapids Cabinet Company, Grand Rapids, Mich., a corporation of Michigan
Application August 30, 1939, Serial No. 292,602
11 Claims. (Cl. 312—150)



1. A storage cabinet comprising a box having side walls and adapted to contain a storage receptacle, opposite rails adjacent the side walls for supporting said receptacle, partitions extending between said rails and bracing them against inward lateral movement, and clips carried by said rails for retaining said partitions against lateral displacement.

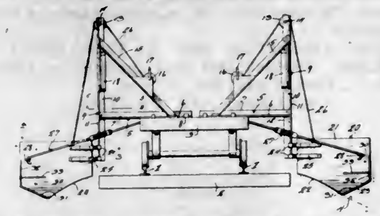
2,281,490
FLUID METER
Albert J. Granberg, and Thomas A. McCoy, Oakland, Calif., assignors to Granberg Equipment Inc., Emeryville, Calif., a corporation of California
Application January 22, 1940, Serial No. 315,058
2 Claims. (Cl. 73—260)



1. A fluid meter or the like comprising three concentric shafts, each terminating short of

each end of the shaft of next smaller diameter to expose end portions of such shaft of smaller diameter, a blade for each shaft, one of said blades being centrally and fixedly mounted adjacent one exposed end of the intermediate shaft, another of said blades being fixedly mounted on the adjacent end of the largest shaft and having a free bearing around the end of the intermediate shaft adjacent the mounting of the blade fixedly mounted thereon, the remaining blade being fixedly attached to the adjacent end of the smallest shaft and having a free bearing around the largest shaft adjacent the mounting of the blade fixedly mounted thereon, a chamber in which said blades rotate, said chamber having side walls bearing on the edges of said blades and a peripheral wall bearing against the outer edges of said blades and having inlet and outlet openings therein, the blade mounting end of said smallest diameter shaft being journaled in a main bearing in one of said side walls with all the shafts passing through the opposite of said side walls, an elliptical gear mounted on each of adjacent exposed ends of said shafts outside of said latter side wall, a second main bearing carried by a bearing hanger attached to said latter side wall and journaling the exposed end of the smallest diameter shaft, a second set of elliptical gears fixedly mounted on a shaft rotating on said latter side wall and said bearing hanger, and respectively meshing with the elliptical gears on said shafts, and an inlet conduit connected to said inlet opening and enclosing said gears.

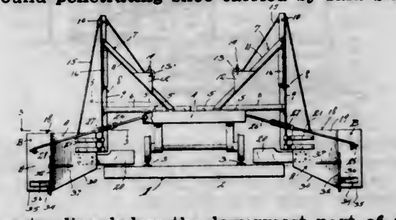
2,281,491
RAILROAD BALLAST DRESSER
Wade E. Haist, Aurora, Ill., and Pernal F. Thomas, La Crosse, Wis.
Application May 9, 1940, Serial No. 334,248
8 Claims. (Cl. 37—105)



7. A ballast dresser designed to be moved along the side of a railway track, comprising a plate member of substantial height and width, the plate member when in operative relation with the trackway being vertically disposed and extending outwardly from the trackway, said plate member having the lower edge thereof extending downwardly from the inner vertical edge of the plate part way through the width of the plate to form a ballast shaping blade, and then extending upwardly and outwardly toward the vertical outer edge of the plate, the said plate having the portion thereof lying between the two angularly related lower edges bent to curve forwardly and in the direction of movement of the plate.

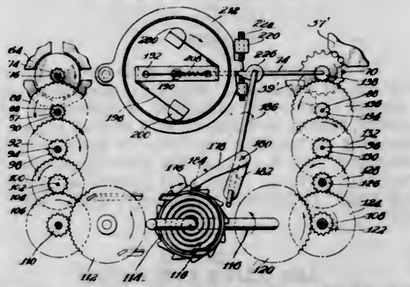
2,281,492
RAILROAD BALLAST DRESSER
Wade E. Haist, Aurora, Ill., and Pernal F. Thomas, La Crosse, Wis.
Application November 7, 1940, Serial No. 364,738
12 Claims. (Cl. 37—105)

1. In a railway ballast dresser, including a supporting structure adapted to be moved along a trackway, a vertically disposed blade operatively connected with said supporting structure, said blade having an inner lower edge portion for spreading ballast along and shaping a shoulder at the side of the trackway and a substantially horizontally disposed outer lower edge portion, a ground penetrating shoe carried by said blade



and extending below the lowermost part of the lower edge thereof and in the direction of movement of the blade for forming an earth line at the outer edge of the ballast material, and a forwardly extending means at the said horizontal portion of the lower edge of the blade forming a weed cutter. .

2,281,493
ELECTRIC CLOCK
Laurens Hammond, Evanston, Ill., assignor to Hammond Instrument Company, Chicago, Ill., a corporation of Delaware
Application February 13, 1931, Serial No. 515,598
13 Claims. (Cl. 58—26)



1. A time-keeping device having a motor, and means to control the speed of operation of the motor; said means comprising an electric synchronous brake supplied with alternating current of regulated frequency, a member rotated by said motor, an element resiliently secured to said member and movable outwardly from the axis of rotation thereof, a stop normally stationary with respect to said member, and means for positioning said stop in the path of outward movement of said element thereby to impede rotation of said member at greater than a predetermined speed, said last named means being energized upon an interruption in the supply of current to said synchronous brake to move to operative position.

2,281,494
CLOCK
Laurens Hammond, Evanston, Ill., assignor to Hammond Instrument Company, Chicago, Ill., a corporation of Delaware
Application February 13, 1931, Serial No. 515,599
33 Claims. (Cl. 58—26)

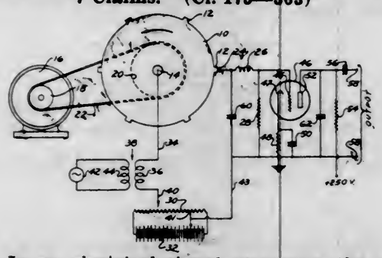
3. In a time-keeping device, the combination of a coil adapted to be connected to a source of alternating current, a core for said coil having a plurality of pairs of poles, an induction ro-

tor cooperating with one of said pairs of poles, an energy storing motor driven by said induction rotor, a synchronous brake driven by said energy storing motor and cooperating with the other of



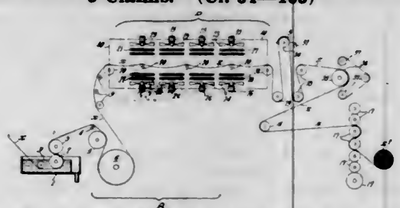
said pair of poles, and mechanical speed governing means for controlling the speed of operation of said energy storing motor when said synchronous brake is ineffective.

2,281,495
FREQUENCY GENERATOR
Laurens Hammond, Chicago, Ill.
Application March 2, 1940, Serial No. 321,835
7 Claims. (Cl. 175—363)



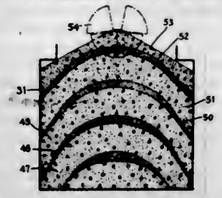
1. In an electrical signal generator, the combination of a varying capacitor, means to derive a signal from said capacitor, a source of direct current, means to connect said source across said capacitor to polarize the latter, a high frequency generator, and a circuit for superimposing high frequency voltage from said generator upon the polarizing potential impressed upon said capacitor.

2,281,496
AIR DRIER FOR PAPER
Hugo H. Hanson, Philadelphia, Pa., assignor to W. C. Hamilton & Sons, Miquon, Pa., a corporation of Pennsylvania
Application April 29, 1940, Serial No. 332,348
5 Claims. (Cl. 34—155)



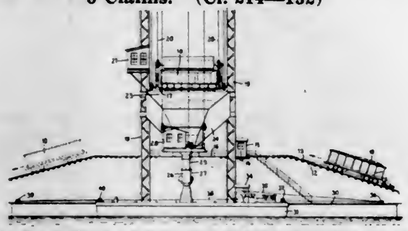
1. In a paper-finishing apparatus, a pair of naked foraminous air-heaters each having a large number of air passages, said air-heaters being arranged in opposed spaced and substantially parallel relationship providing a paper-receiving channel therebetween, means for advancing a continuous web of paper longitudinally through said channel, and means for driving air through the air passages of said heaters directly into contact with the opposite faces respectively of the moving web, said air normally maintaining said web in spaced relation to said heaters.

2,281,497
METHOD OF MIXING FUELS
John A. Hyson, Merwood Park, and Joseph H. Kerrick, Philadelphia, Pa., assignors to The Philadelphia and Reading Coal and Iron Company, Philadelphia, Pa., a corporation of Pennsylvania
Application July 6, 1939, Serial No. 282,968
6 Claims. (Cl. 259—1)



1. A method of intermixing a plurality of different solid fuels as an incident to the transfer thereof from a supply point to a delivery point which comprises distributing the several fuels in successive layers in a carrier at the supply point, removing the fuel from said carrier at the delivery point in such a way as to take successive portions of the fuel from the top and from a plurality of layers at a time, the amounts of the different fuels removed each time being in substantially the proportion in which they are disposed in the layers, and dumping each of the successive portions a plurality of times in the course of conveying the same to the point of use.

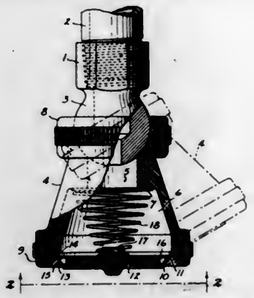
2,281,498
FUEL LOADING AND INTERMIXING METHOD
John A. Hyson, Merwood Park, and Joseph H. Kerrick, Philadelphia, Pa., assignors to The Philadelphia and Reading Coal and Iron Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application July 6, 1939, Serial No. 282,968. Divided and this application December 31, 1940, Serial No. 372,626
8 Claims. (Cl. 214—152)



1. A method of loading different types of solid fuel into a carrier for the purpose of aiding the inter-mixture thereof which comprises dumping the different types of fuel successively in desired ratio from a series of cars through a hopper, delivering the fuel from said hopper to a predetermined point, and shifting the carrier back and forth with respect to said point to distribute the fuel in a series of layers within the carrier as it is delivered from the hopper.

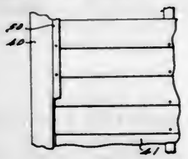
2,281,499
SHOWER BATH SPRAY HEAD
Isadore Herzbrun and Charles F. Schultis, Cleveland, Ohio
Application November 23, 1940, Serial No. 366,894
4 Claims. (Cl. 299—141)

1. A shower bath spray head having a chamber with an inlet opening and a bottom wall provided with a single large centrally disposed opening, and a closure disk in said chamber having a marginal seating portion engageable with the bottom wall at the margin of said opening, the marginal seating portions of said disk and opening being formed to provide a circumferential row of jet orifices, said disk being movable upwardly and tiltable laterally in said opening upon application of pressure to the under face



thereof to dispose diametrically opposite seating portions of the disk clear of the bottom wall with intermediate seating portions of the disk in engagement with the bottom wall at opposite sides of the opening, whereby pressure upon the engaging seating portions retains the disk in tilted position to permit free flow of water past the disk and through the discharge opening to wash away accumulations of solid material from the interior of the head.

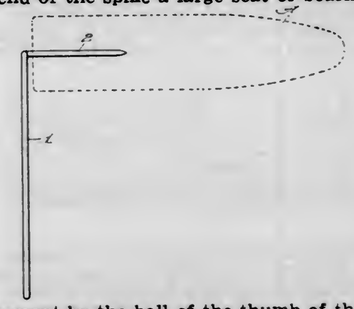
2,281,500
BUILDING
Charles F. Jaeger, Ferndale, Mich.
Application February 3, 1940, Serial No. 317,085
2 Claims. (Cl. 20—5)



1. A building structure comprising a wall frame, siding fastened to the outer side of the frame and disposed in edge overlapping step-like relation, corner boarding fastened to the frame at the ends of the siding, and a wooden trim strip extending along and fitting the side edge surface of each corner boarding and also extending over the ends of the siding, said strip having its inner side notched out to fit the stepped siding and to fit the corner space at the junction of the siding and corner boarding.

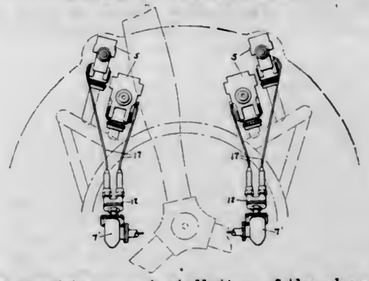
2,281,501
HOLDER FOR EARS OF CORN
Tazewell H. Jenkins, Chicago, Ill.
Application April 24, 1940, Serial No. 331,317
4 Claims. (Cl. 294—5)

1. A device of the character described, consisting of a single handle adapted to be gripped in the hand, and a long sturdy spike projecting laterally from one end of the handle and adapted to be inserted in one end of an ear of corn and support the entire weight of the same by a cantilever action, said device having adjacent to the base end of the spike a large seat or bearing for



engagement by the ball of the thumb of the user to force the spike into the said ear.

2,281,502
ORDNANCE
Robert Adam Kaiser, Glendale, N. Y., assignor to Republic Aviation Corporation, a corporation of Delaware
Application March 28, 1938, Serial No. 198,437
4 Claims. (Cl. 89—37.5)

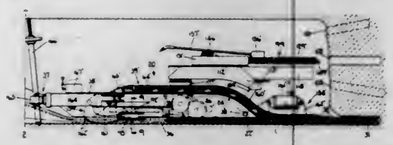


1. A machine-gun installation of the character described comprising a plurality of machine guns, a trigger-motor associated with each machine gun, mechanism for simultaneously operating said trigger motors, said mechanism including a rotary cam, means for continuously rotating the cam, a lower casing enclosing the cam, an upper casing contiguous with said lower casing, a slide member supported in the lower casing and arranged to be reciprocated by said cam, said slide member terminating in a pair of laterally disposed arms slidable in the upper casing, a spring-loaded tensile member extending between each of said arms and a trigger-motor, and means for locking said slide member against reciprocation.

2,281,503
APPARATUS FOR MINING COAL
Nils D. Levin, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application August 15, 1938, Serial No. 224,845
13 Claims. (Cl. 262—28)

5. In a mining machine, the combination with a main frame, of a supplemental frame pivoted thereto for adjustment relative thereto on a transverse axis, a motor on said main frame, a pair of kerf-cutters mounted on said supplemental frame for pivotal movement relatively thereto on an upright axis and for bodily rectilinear movements relatively to the supplemental frame forwardly and rearwardly along the same, means for tilting the supplemental frame on said trans-

verse axis to effect tilting of said kerf-cutters relative to an upright face of a mine vein, means for feeding said kerf-cutters rectilinearly along said supplemental frame into the said face at the adjusted inclination, means for feeding said



kerf-cutters arcuately in opposite directions while in the mine vein, and power-transmission mechanism extending from the motor on the main frame to said kerf-cutters to drive the same in its various positions of adjustment and feeding as aforesaid.

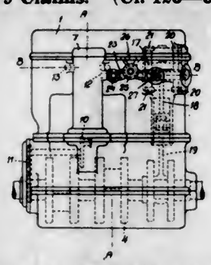
2,281,504
PROCESS FOR THE EXTRACTION OF CELLULOSE FIBERS FROM LIGNIFIED FIBROUS MATERIAL
Walter Talbot Kerr, St. Margarets-on-Thames, England, assignor to Sisal Pulp Syndicate Limited, London, England
No Drawing. Application March 24, 1939, Serial No. 264,043. In Great Britain March 29, 1938
4 Claims. (Cl. 92—9)

1. A process for the extraction of cellulose fibres suitable for producing paper pulp, from finely divided fibrous lignocellulose material, which material has been freed from most of the adhering material and dust, which process comprises subjecting the material firstly to the action of a weak solution of an alkaline agent selected from the group consisting of alkali hydroxide and alkali carbonate while heating at a temperature not above its boiling point under atmospheric pressure, then washing the material, then subjecting it while in movement to the action of a weak non-acid aqueous solution of chlorine, chlorine being added as required to keep the concentration constant during the greater part of the treatment, then washing the material, subjecting it to a further treatment with a weak solution of an alkaline agent while heating at a temperature of about its boiling point under atmospheric pressure, washing the material again, and then mechanically separating the undissolved impurities.

2,281,505
PAVING COMPOSITION AND METHOD OF PREPARATION OF SAME
William L. Kirkland, Waban, Mass.
No Drawing. Application September 7, 1938, Serial No. 228,871
10 Claims. (Cl. 106—281)

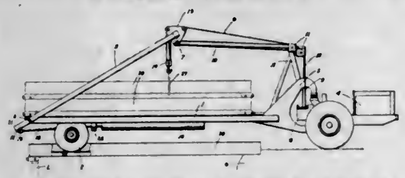
1. The method of preparing a bituminous paving mixture which consists of combining in predetermined proportions, coarse aggregate mineral particles larger than will pass a screen having ten meshes per linear inch and equally dense fine aggregate mineral particles which will pass a ten mesh screen with bituminous cement, all of same being heated to temperatures sufficient to produce a complete mixture which will be easily workable after transportation to point of use; the coarse aggregate particles in the amount of at least 25% of the total aggregate at the time of combining, being at a temperature at least 15° F. cooler than the temperature of the fine aggregate.

2,281,506
INTERNAL COMBUSTION ENGINE
Carl Fredrik Gunnar Kjellberg, Stockholm, Sweden
Application April 15, 1940, Serial No. 329,815
In Sweden November 11, 1938
9 Claims. (Cl. 123—59)



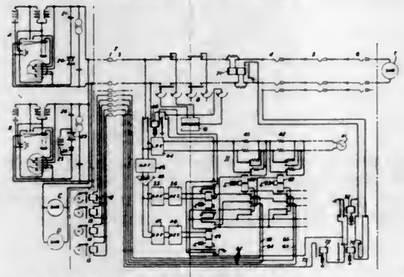
1. In an internal combustion engine, a working cylinder, a working piston arranged in reciprocate in said cylinder, an engine shaft operatively connected to said piston, a charging pump having an inlet and an outlet and including a reciprocating piston operatively connected to said engine shaft, means responsive to the angular position of said engine shaft for connecting the outlet of said charging pump with said working cylinder during the compression stroke thereof and for completing the charging stroke of said charging pump before said working piston has completed its compression stroke, a precharging pump having an inlet and an outlet and including a reciprocating piston operatively connected to said engine shaft, a passage for connecting the outlet of said precharging pump with the inlet of said charging pump, and means for timing the reciprocating movements of said pistons so as to complete the compression stroke of said precharging pump and the suction stroke of said charging pump substantially at the same time and a valve device in said passage for controlling the outlet of said precharging pump and the inlet of said charging pump for supplying a charge from said precharging pump as an additional filling into said working cylinder.

2,281,507
LOAD CARRYING AND ERECTING IMPLEMENT
Robert G. Le Tourneau, Peoria, Ill., assignor to R. G. Le Tourneau, Inc., a corporation
Application September 22, 1941, Serial No. 411,828
9 Claims. (Cl. 212—8)



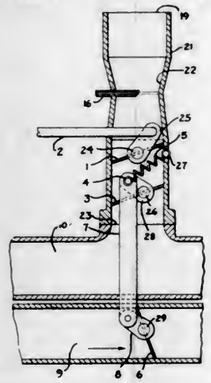
1. In combination with a vehicle having a bed, a boom projecting above said bed, means pivoting the boom intermediate its ends but adjacent its lower end for swinging movement lengthwise of the vehicle between a forwardly inclined position and a rearwardly inclined position, load supporting means depending from the upper end of the boom, pull cables connected to said boom on opposite sides of its pivot, and extending forwardly therefrom, and separate means applied to each cable to pull the same forwardly; one such means comprising a loaded spring.

2,281,508
TELEPHONE SYSTEM
Alexis A. Lundstrom, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 2, 1940, Serial No. 316,914
8 Claims. (Cl. 179—8.5)



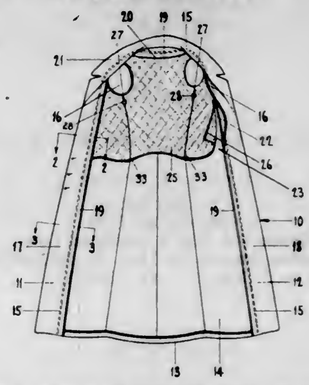
1. In a telephone system, a party line terminating at one end in a plurality of party line subscriber stations, and at the other end in a central office, a source of alternating current at said central office, means responsive to the removal of the receiver at any one of said stations for connecting said source to the line, means responsive to the flow of current from said source for producing in said line second or third harmonics of the fundamental frequency of said current that are individually distinctive in regard to their energy levels for each station, and means at the central office responsive to said harmonics for identifying the calling party.

2,281,509
CHARGE CONTROL SYSTEM FOR INTERNAL COMBUSTION ENGINES
Marion Mallory, Detroit, Mich.
Application October 28, 1940, Serial No. 363,135
7 Claims. (Cl. 123—119)



1. A carburetion and charge control system for an internal combustion engine comprising an intake passageway, a manually controlled throttle valve in said intake passageway, a charge control valve in said passageway, pneumatic means responsive to the pressure existing in the intake passageway on the engine side of the charge control valve for closing the valve as the pressure rises and for opening the valve as the pressure lowers, and means responsive to the pressure in the engine exhaust passageway connected to said charge control valve for closing the same as the pressure lowers and for opening the same as the pressure rises whereby the charge control valve is controlled in accordance with the load and speed of the engine.

2,281,510
COMBINATION COAT AND JACKET
Leo W. Neumark, Shaker Heights, Ohio, assignor to The Printz-Biederman Company, a corporation of Ohio
Application January 4, 1941, Serial No. 373,124
2 Claims. (Cl. 2—97)

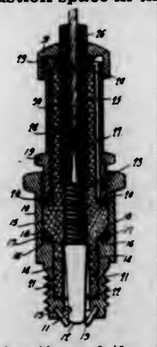


1. In a combined overcoat and inner jacket member, comprising a lined overcoat and a sleeveless inner jacket member of a size adapted to be worn in unitary relation within said lined overcoat, slide fastener elements for securing the side and top edge portions of said inner jacket member to said overcoat, said inner jacket member having armholes with the entire upper portions thereof unsecured to said overcoat, said inner jacket member having vertically disposed buttonholes directly below said armholes, said lining having buttons secured thereto and positioned in alinement and engageable with said buttonholes to prevent sideways movements of the armhole portions of said inner jacket member while permitting limited vertical movements of said armhole portions of said jacket member relative to the sleeves of said overcoat, said jacket member having arcuate flaps secured thereto at the lower portion of said armholes and extending into the sleeves of said overcoat and serving to frictionally restrain the armhole portions of said inner jacket member from undue sideways shifting at the periphery of said armholes and to maintain the alinement of the armhole portions of the jacket member with the said overcoat sleeves.

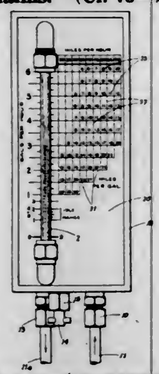
2,281,511
SPARK PLUG
George Parkin, Philadelphia, Pa.
Application July 1, 1940, Serial No. 343,488
4 Claims. (Cl. 123—169)

1. In a spark plug, a shell having a cylindrical bore, a unitary porcelain comprising a heavy body portion having a thin skirt closely fitting in the bore and in good heat exchange relation to the shell, the bore being reduced at its lower end to provide a flange having the same interior diameter as and shielding the lower end of the skirt from direct contact by the products of combustion in an engine, and a large primary electrode detachably engaged in the body portion of said porcelain and filling a substantial portion of the

cavity formed by said skirt and flange to determine the combustion space in the plug and thereby control the heating of the skirt of said porcelain.



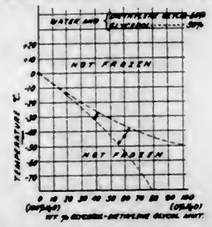
2,281,512
FLOW METER
Harlow A. Reed, Oakdale, Calif.
Application August 24, 1940, Serial No. 354,007
3 Claims. (Cl. 73—215)



1. A liquid flow meter comprising a vertical feed tube having an intake above its lower end, a vertical gauge tube, a vertical meter-tube casing, a perforated meter tube in the casing, a vertical air tube, a tank having a bottom outlet and into which the air tube and casing discharge, a hollow head connecting all the tubes and the casing at the top, and a base passage member connecting the feed and gauge tubes and the casing at their lower ends and with which the meter tube communicates adjacent its lower end; there being a seal between the casing and meter tube between the points of communication of the casing with the tank and of the meter tube with the base passage member; the gauge tube being disposed exteriorly of the other tubes and the casing and spaced therefrom whereby a flat gauge plate may be placed directly behind said gauge.

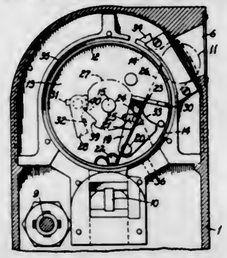
2,281,513
PRESERVED PRODUCT
Frank H. Reichel and Ralph T. K. Cornwell, Fredericksburg, Va., assignors to Sylvania Industrial Corporation, Fredericksburg, Va., a corporation of Virginia
Application December 29, 1939, Serial No. 311,530
9 Claims. (Cl. 99—171)

1. In a wrapped frozen food product comprising a mass of frozen food encased in a flexible wrapper which does not adhere to said food and which protects the food from desiccation and freezer burn, a wrapper comprising a non-fibrous



hydrophilic organic colloid containing a plasticizer comprising water, glycerol and diethylene glycol, said plasticizer maintaining said wrapper flexible at sub-atmospheric temperatures.

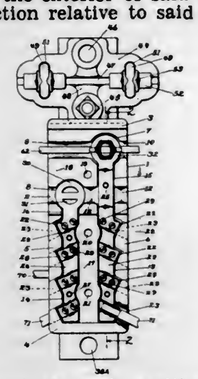
2,281,514
TIMING DEVICE
Marcus H. Rhodes, Hartford, Conn., assignor to M. H. Rhodes, Inc., Hartford, Conn., a corporation of Delaware
Application August 3, 1940, Serial No. 350,915
4 Claims. (Cl. 194—72)



1. In a timing device, a casing having coin entrance and exit slots, clock mechanism within said casing, a main shaft associated with said clock mechanism, a coaxial shaft, an operating member for said second shaft, a winding ratchet on said first shaft, a pawl for operatively engaging said ratchet on insertion of a coin in said entrance slot and movement of said operating member, a coin carrying assembly on said second shaft movable on the insertion of a coin to carry a part thereof radially into position to engage and move the pawl into engagement with the ratchet thereby to wind the clock mechanism a predetermined amount prior to releasing the coin to the exit slot when the pawl and ratchet are disengaged and the coin carrying assembly is returned to normal to receive a second coin, and means to position the pawl opposite the next tooth on the ratchet whereby on insertion of a second coin and movement of the member a second predetermined period of time is cumulatively wound on said clock mechanism.

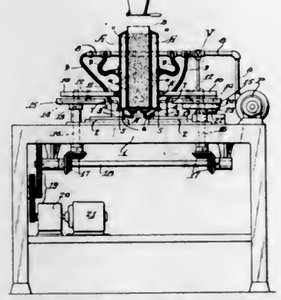
2,281,515
SECONDARY SERVICE BOX
Michael Ruggieri, Stroudsburg, Pa., assignor to Line Material Company, South Milwaukee, Wis., a corporation of Delaware
Application April 8, 1940, Serial No. 328,505
10 Claims. (Cl. 174—59)

1. A secondary service box made of an insulating material and comprising channels extending transversely thereof and open on each side of said box, adjacent terminal compartments having a common dividing wall and each provided with a side and communicating with one of said channels, the opposed faces of the dividing wall and the side walls having offset and inset portions, said side walls being provided with apertures extending to the exterior of said box and in an angular direction relative to said channels, and



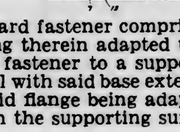
elongated terminals each positioned in one of said compartments and extending into a corresponding channel and having a series of tubular conductor clamps adjacent said apertures and in axial alignment therewith, and said elongated terminals being constructed for interfitting engagement with the offset and inset portions of the common dividing wall and side walls.

2,281,516
CONTAINER HANDLING APPARATUS
Thomas M. Royal, Philadelphia, Pa.
Application January 2, 1941, Serial No. 372,943
6 Claims. (Cl. 226—47)



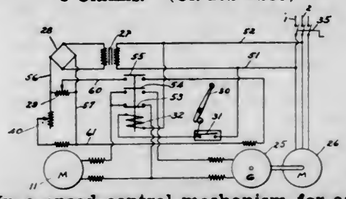
6. In apparatus for opening collapsed flexible containers, a pair of movable supports, a first pair of suction plates pivotally connected respectively to each of said movable supports, a second pair of suction plates pivotally connected together and each being pivotally connected respectively to one of said first pair of suction plates, actuating means connected to the pairs of suction plates for moving the same and their supports toward and away from each other between a closed position wherein said plates engage opposite walls of an interposed collapsed container and an open position determined by the dimensions of said container when expanded, the connection of said actuating means to said plates being outwardly offset with respect to the connection of the plates to their movable supports so that said first pair of plates is initially separated at the upper end thereof upon movement from the closed position, and means for creating a suction force at the container engaging surfaces of said plates so that when the plates are closed upon a collapsed container the walls of the latter will be held by the plates and carried by said plates during movement thereof to said open position thereby expanding the container.

2,281,517
THERMOSTAT
Waldo A. Saul, Lexington, Mass., assignor to Metals & Controls Corporation, Attleboro, Mass., a corporation of Massachusetts
Application September 14, 1940, Serial No. 356,717
20 Claims. (Cl. 200—138)



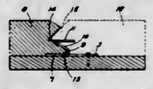
1. A thermostat comprising a helix composed of a coiled strip of composite metal and means for causing one portion of the helix to respond more rapidly to temperature change than another portion.

2,281,518
ADJUSTABLE SPEED DRIVE
Robert S. Elberty, Jr., Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa.
Application November 3, 1938, Serial No. 238,657
3 Claims. (Cl. 172—239)



1. In a speed control mechanism for an electrically driven part, a driving unit comprising a cumulatively compound wound motor connected to said part for operating same, as overcompounded generator for furnishing electrical energy to said motor for operating same, the field winding of the generator being proportioned so that an increase in load on the motor will cause a sufficient rise in output of the generator to maintain said motor speed substantially constant under said increased load.

2,281,519
WALLBOARD FASTENER
Elwood C. Faber, Manheim Township, Lancaster County, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application October 29, 1940, Serial No. 363,267
6 Claims. (Cl. 72—118)



1. A wallboard fastener comprising a base having an opening therein adapted to receive means to secure the fastener to a supporting surface, a flange integral with said base extending outwardly therefrom, said flange being adapted to be interposed between the supporting surface and a sup-

ported wallboard, a clamp portion integral with said base adapted to overlie and clamp a portion of an adjacent marginal edge of the wallboard to the supporting surface, said flange in combination with said clamp portion constituting a retaining portion into which the marginal edge of the wallboard extends to frictionally secure the fastener to the wallboard, and a tang projecting from the clamp portion adapted to penetrate into the adjacent marginal edge of a second wallboard.

2,281,520

STABILIZED MINERAL OIL COMPOSITION

Everett W. Fuller, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application February 18, 1939, Serial No. 257,097

5 Claims. (Cl. 252—51)

1. A viscous mineral oil fraction of the lubricant type having in admixture therewith a minor proportion of a paranitroso dialkyl aniline in an amount sufficient to inhibit the deleterious effects of oxidation.

2,281,521

STABILIZED LUBRICATING OIL

Everett W. Fuller, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application October 8, 1940, Serial No. 360,289

9 Claims. (Cl. 252—47)

1. A lubricating oil composition comprising a viscous hydrocarbon oil which normally tends to deteriorate by oxidation under normal conditions of use and in intimate admixture therewith a minor proportion, sufficient to inhibit such deterioration, of a reaction product obtainable by reacting substantially equimolecular proportions of a mercaptan, an aromatic amine and formaldehyde.

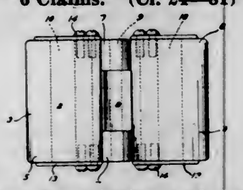
2,281,522

CLAMP FOR GRIPPING THE ADJACENT EDGES OF SHEET MATERIAL

Harry R. Jaynes, Manheim Township, Lancaster County, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania

Application May 2, 1940, Serial No. 332,938

6 Claims. (Cl. 24—81)



4. A clamp for gripping and connecting the adjacent edges of sheet material such as linoleum, felt base and the like during factory processing comprising a sheet gripping member terminating in spaced jaws between which the edge of a sheet may be inserted, the opposite end of said member terminating in two spaced projections having openings therein, a roll placed between said jaws and being movable longitudinally therein, plates mounted on said member adapted to prevent substantial lateral movement of said roll, said roll being adapted to wedge itself between said jaws to hold the inserted edge of a sheet, a second gripping member terminating in spaced jaws between which the edge of a second sheet may be inserted, the opposite end of said second member terminating in a single projection having an opening therein adapted to be placed in alignment with the openings in said spaced projections, a roll placed between the jaws of the second gripping member and movable longitudinally therein, plates mounted on said second member adapted to prevent substantial lateral movement of said roll, said roll being adapted to wedge itself between said jaws to hold the inserted edge of the second sheet, and means fitting in the aligned openings of said projections interlockingly connecting said members.

2,281,523

FILM

Daniel D. Lanning, Williamsville, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 2, 1940, Serial No. 312,096

12 Claims. (Cl. 106—171)

2. A dry cast film of ethyl cellulose containing 0.5% to 5% of an ammonium soap.

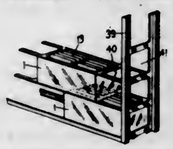
2,281,524

GLASS BUILDING BLOCK

George T. Meyers, Parkersburg, W. Va., assignor to The Meyers Company, Parkersburg, W. Va., a corporation of West Virginia

Application November 25, 1940, Serial No. 367,043

3 Claims. (Cl. 72—42)



2. A wall structure made up of a plurality of glass blocks, each of said glass blocks comprising a hollow body portion of substantially rectangular form having a top wall, front and rear walls, end walls and an open bottom, said hollow body portion having a transversely extending web joined to the front, rear and top walls and being disposed at a point midway between the ends of said block, a plurality of raised portions formed on the upper surface of the top wall which are spaced from each other and from all edges of the block so as to provide load-bearing surfaces at the front, rear and end edges of the top wall which are disposed directly above said front, rear and end walls and a load-bearing surface between said raised portions which is disposed directly above said web, said blocks being disposed in horizontal rows with the vertical joints of adjacent rows in staggered relationship, the raised portions on the blocks of one row fitting into the open lower ends of the blocks of the adjacent row above so that the lower edges of the upper row of blocks will rest on said load-bearing surfaces of the lower row of blocks, and metal strips provided between said row of blocks, said strips having sockets through which the raised portions of said blocks pass.

2,281,525

GRINDING WHEEL

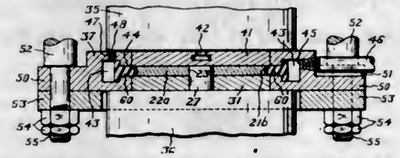
Lowell H. Milligan and Robert H. Lombard, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application November 19, 1936, Serial No. 111,720

5 Claims. (Cl. 51—293)

1. Method of making a diamond abrasive wheel

comprising preforming a central disk of granular material and bond, introducing around said disk a mixture of abrasive material and bond, and



pressing said mixture radially by pressure derived from radial forces against the disk, then maturing both parts in a single maturing operation.

2,281,526

GRINDING WHEEL

Lowell H. Milligan and Robert H. Lombard, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts

No Drawing. Application May 16, 1940, Serial No. 335,502

1 Claim. (Cl. 51—308)

A grinding wheel or other abrasive article comprising boron carbide abrasive particles bonded with a ceramic bond having the following formula, 45% to 65% by weight of SiO_2, 15% to 40% of B_2O_3, 3% to 20% of Al_2O_3, and 3% to 10% of an oxide of alkali metal.

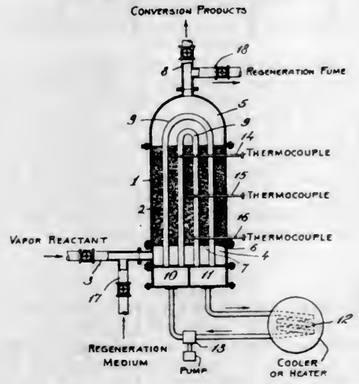
2,281,527

METHOD OF CONDUCTING CATALYTIC CONVERSION OPERATIONS

Thomas P. Simpson, John W. Payne, and John A. Crowley, Jr., Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

Application September 17, 1938, Serial No. 230,356

5 Claims. (Cl. 196—52)



1. In a unitary operation for the conversion of hydrocarbons in the presence of a contact mass followed by regeneration in situ of the contact mass, the method which comprises passing hydrocarbons at reaction temperature through the contact mass for a predetermined period of reaction, then passing regeneration medium through said contact mass until the time when the last portion of said mass to be regenerated has reached maximum regeneration temperature and stopping such passage substantially at said time, and thereafter resuming passage of hydrocarbons through said mass.

2,281,528

METHOD OF HEATING AND MELTING PRECIOUS METALS AND FLUX COMPOSITION THEREFOR

Herbert R. Berger, Brooklyn, N. Y., assignor to J. F. Jelenko & Co. Inc., New York, N. Y., a corporation of New York

No Drawing. Application April 22, 1940, Serial No. 330,898

11 Claims. (Cl. 75—65)

1. The method of treating a precious metal alloy subject to oxidation when heated, according to which there is utilized a centrifugal furnace having alundum in the interior thereof, which comprises heating such metal alloy in said furnace in the presence of a flux which is inert to alundum and which contains potassium bitartrate.

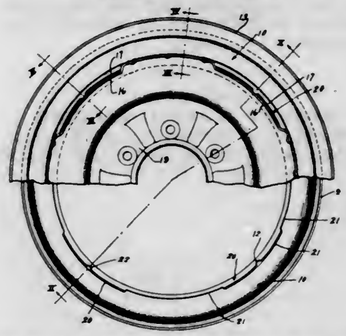
2,281,529

ORNAMENTAL TRIM RING

George Albert Lyon, Allenhurst, N. J.

Application January 21, 1939, Serial No. 252,097

6 Claims. (Cl. 41—10)



1. As an article of manufacture, an ornamental trim ring for a wheel including a rim member having a plurality of radial flanges as well as a base flange and a body member having spaced apertures at its junction with the rim member, said ring having a radially inner turned edge provided with a plurality of spaced resilient projections adapted to extend through said apertures and to each embrace an inner and concealed shoulder of one of said members for retaining the ring on the wheel, said projections being separated by cut out sections in said turned edge and being adapted to be snapped into retaining engagement upon application of the ring in an axial direction to the wheel, the other and radially outer edge of said ring being turned to bear against a radial flange of the rim member.

2,281,530

JIG

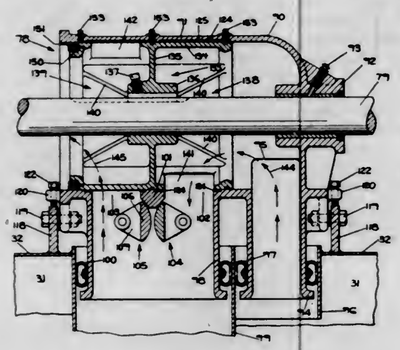
Orval R. Strawn, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio

Application July 19, 1939, Serial No. 285,302

3 Claims. (Cl. 209—455)

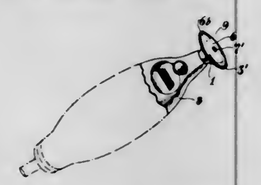
1. In a jig, the combination with a jigging liquid receiving container, of a material supporting screen therein, an air chamber, mechanism for supplying air cyclically to said air chamber to force liquid through said screen cyclically, said mechanism including a cyclically operated valve constructed to have air inlet, expansion, exhaust and compression periods during each cycle of operation totalling 360 degrees,

and including means for adjusting the number of degrees of each period while the valve is operating, said means being constructed and arranged



to have such flexibility that the expansion and compression periods may be adjusted for different periods.

2,281,531
ROTARY SHAVING MACHINE
Thaddeus S. Casner, Plainfield, N. J.
Application December 31, 1938, Serial No. 248,756
6 Claims. (Cl. 30—43)



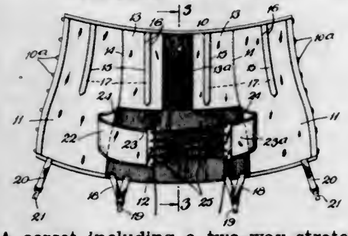
1. A shaving machine embodying, in combination, a circular comb member having, at its perimetric edge, an annular comb band or strip of angular cross-section, having a cutter-contact surface and provided with radially-disposed skin-contacting comb-teeth and interdental spaces, and a disc-like cutter-carrier of smaller diameter mounted coaxially with said comb member and rotatable over said comb member, said cutter-carrier having a bottom surface flush with and contacting the surface of said annular comb member and a free top surface, said cutter-carrier being provided with an arcuate edge having a plurality of spaced cutter members provided with sharp cutting edges at an angle to said arcuate edge and movable circumferentially in contact with said band of comb-teeth to cut hair inserted therebetween, said cutter members also being provided with bottom portions conforming to and closely contacting the top of the comb band and each cutter member having a bevelled portion extending in the direction of rotation and bridging the top and bottom surfaces of the edge of the carrier to provide a sharp cutting edge, said arcuate edge and spaced cutters being so positioned inwardly in relation to the skin-contacting edge of said comb band that the top of the rotatable disc-shaped cutter-carrier will cooperate with the circular comb member to provide a guard whereby the user will be enabled to shave hair from a skin surface without danger of cutting the skin.

2,281,532
SHOE POLISH CONTAINER AND ENCLOSED BRUSH
Philip Lewis and Nicholas Sherhofer, New York, N. Y.
Application July 15, 1939, Serial No. 284,620
3 Claims. (Cl. 15—258)



1. In a shoe polish container the combination of a base cup and a cover therefor slidably removable from said base cup, a tube of shoe-polish-like-material in said base, a brush having handle and bristles housed within said container, said tube providing a side wall housing for the bristles and said cover housing the handle, an additional tube of paste material adjacent the cylindrical inner wall surface of the first tube, said inner tube having a coating of material having a higher melting point than the first tube material, the tubes and coating being frangible to wear away as the paste is used and together providing a flat upper wearing surface contactable by the bristles when moved in a straight line across the outer diameter of said flat surface.

2,281,533
CORSET
Vita Buchanan, New York, N. Y.
Application May 19, 1939, Serial No. 274,488
3 Claims. (Cl. 2—27)



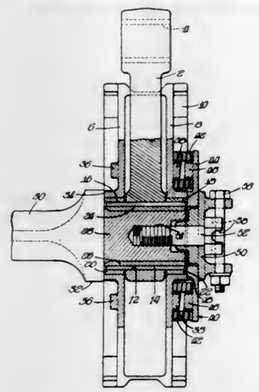
1. A corset including a two-way stretch back panel coextensive with the height of the garment, a lining member underlying said back member and extending from the top edge thereof with its lower edge free and terminating on a line substantially midway of the height of the garment, said lining member comprising an intermediate panel of horizontally elastic material, and stocking-supporting members secured to the lower edge of said elastic back panel.

2,281,534
METHOD AND APPARATUS FOR HYDROLYZING FATS AND OILS
Warren Davey, Montclair, and Martin Hill Ittner, Jersey City, N. J., assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
Application August 26, 1939, Serial No. 292,056
13 Claims. (Cl. 260—415)

1. The process of producing fatty acids and concentrated glycerine which comprises hydrolyzing fats or oils under superatmospheric pressure and at an elevated temperature, separately removing fatty acids containing some dissolved water and a glycerine-water solution from the hydrolyzing chamber, utilizing a portion of the heat in the fatty acid-water mixture to generate steam under pressure, preheating the oil or fat before introduction into the hydrolyzing chamber with at least a portion of the steam so generated, employing a portion of said steam for producing a vacuum, flashing the glycerine-water solution to evaporate a portion of the water therefrom as steam under pressure, utilizing a further portion of the heat in the outcoming fatty acids-water mixture to further evaporate water from the glycerine-water solution as steam under pressure, preheating the water before introduction into the hydrolyzing chamber with a portion of the steam generated from the glycerine-water solution, utilizing another portion of the steam thus generated to further evaporate water from the concentrated glycerine-water solution at a lower pressure, flashing the partially concentrated glycerine-water solution to evaporate a portion of the water therein, and using a portion of the heat remaining in the fatty acids-water mixture to further evaporate water from the concentrated glycerine-water solution at the lower pressure, the evaporation of water from the concentrated glycerine solution being further assisted by reducing the pressure thereon below atmospheric.

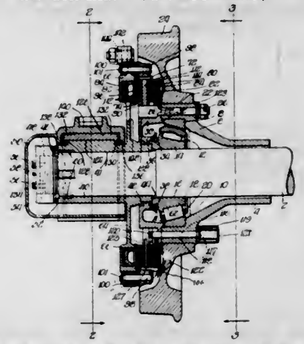
11. An apparatus for hydrolyzing fats and oils and producing fatty acids and concentrated glycerine which comprises, in combination with a pressure hydrolysis vessel, means for separately withdrawing fatty acids and glycerine solution therefrom, means for reducing the pressure on the glycerine solution, means for bringing the steam thus generated into indirect contact with the water feed to preheat it, means for bringing the fatty acids into indirect heat exchange relation with water to generate steam, means for bringing steam thus generated into indirect contact with the fat or oil feed, means for bringing the fatty acids into indirect heat relation with the glycerine-water solution, and means for further reducing the pressure on the concentrated glycerine solution to evaporate more water therefrom.

2,281,535
PIVOTAL MEANS AND METHOD OF ASSEMBLY
William C. Drews, Maywood, Ill.
Application March 17, 1941, Serial No. 383,679
15 Claims. (Cl. 188—230)



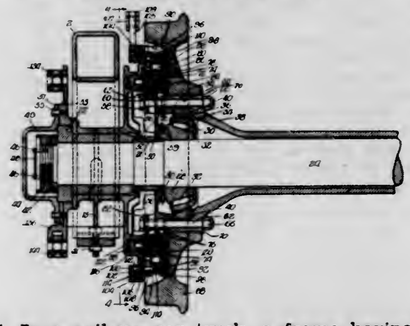
1. In a brake assembly, a brake head having spaced walls with aligned openings, a brake hanger having an end accommodated between said walls and having an opening aligned with said first-mentioned openings, a bushing fitted in said hanger and projecting into said aligned openings in said brake head whereby said head and hanger may be handled as a unit, and a brake beam having a trunnion end projecting into said bushing and supported by said hanger.

2,281,536
BRAKE ARRANGEMENT
Walter H. Baselt, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application September 8, 1939, Serial No. 293,914
24 Claims. (Cl. 188—153)



1. In a vehicle, a frame member, a supporting wheel and axle assembly having an outer axle, a wheel fixed thereon, an inner axle sleeve within said outer axle, anti-friction bearings between said axles, a rotor supported from said wheel, a stator supported from said inner axle, and means operative to move said rotor and stator axially into engagement, said operating means comprising a cylinder casting adjustably sleeved on said inner axle in abutment with said bearing, a cylinder integrally formed therewith, and a piston in said cylinder operable to move said stator into engagement with said rotor.

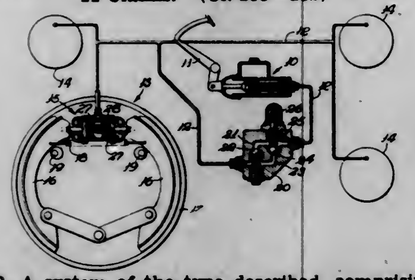
2,281,537
BRAKE
William S. Spieth and Carl E. Tack, Chicago, Ill., assignors to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application April 3, 1939, Serial No. 265,709
46 Claims. (Cl. 188—153)



1. In a railway car truck, a frame having a side member with pedestal jaws, a journal box positioned in said jaws, resilient means seated on said box and supporting said side member, an anti-friction wheel and axle assembly comprising a normally non-rotating axle having an end supported in said jaws, a rotatable axle sleeved over said non-rotating axle, a wheel fixed on said ro-

tating axle, an anti-friction bearing between said axles, rotatable and non-rotatable braking discs inter-leaved between said journal box and said wheel, and power means mounted on said journal box and operable to move certain of said plates axially of said structure.

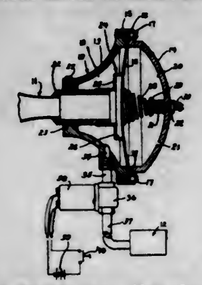
2,281,538
MEANS FOR AND METHOD OF ADJUSTING PRESSURE FLUID BRAKE SYSTEMS
Max Leichsenring, Jr., Chicago, Ill.
Application September 28, 1939, Serial No. 296,900
11 Claims. (Cl. 188—152)



2. A system of the type described, comprising a movable brake element yieldably biased toward released position, and fluid pressure actuated means for moving said element to engage a co-acting element, characterized by the provision of adjustable means applying a predetermined fluid force to said element for limiting the releasing movement of said element, and means for relieving such fluid force in excess of the predetermined amount as may result from a change in the operating condition of the coacting elements.

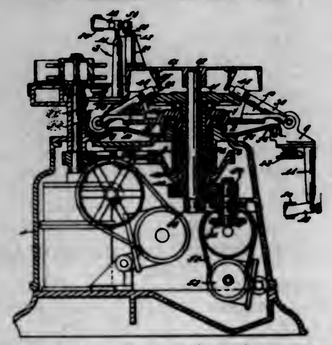
2,281,539
HORN
Lyndon V. Grover, Los Angeles, Calif., assignor to Grover Products Company, Los Angeles, Calif., a corporation of California
Application November 4, 1939, Serial No. 302,795
11 Claims. (Cl. 116—142)

1. A sound producing unit of the character described which includes: a casing defining a chamber; a diaphragm mounted in said casing so as to divide the interior thereof into a forward chamber and a rear chamber; a tubular member mounted in the forward wall of said casing extending rearwardly in said forward chamber, said tubular member being provided on its inner end with an expansion cup of a substantially greater diameter than said tubular member and having an annular base surrounding the inner end of said tubular member and generally normal to the axis thereof, the rim of said cup being normally in contact with said diaphragm, whereby fluid entering said cup from said forward chamber by reason of the disengagement of said diaphragm with said cup rim will be caused to reverberate several times between said annular cup



base and said diaphragm, thereby aiding the vibration of said diaphragm before passing into said tubular member; and means in said forward chamber for introducing fluid therein.

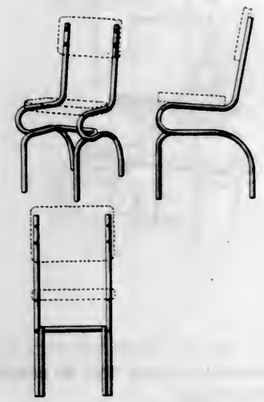
2,281,540
BEVERAGE MIXING MACHINE
James Kantor, Chicago, Ill., assignor to The Liquid Carbonic Corporation, Chicago, Ill., a corporation of Delaware
Application October 2, 1939, Serial No. 297,441
25 Claims. (Cl. 259—54)



1. In a machine for mixing the contents of a container, in combination, a member moving in a fixed path of travel, means on said member for supporting a container and journaled on said member for oscillating movement thereon in a plane substantially transverse to the plane of movement of the member, means for imparting an oscillating movement to said member while moving in said path of travel, and means for positively rotating said container supporting means on an axis coincident with the longitudinal axis of the container supported thereby while said supporting means is oscillating and while traveling in said path.

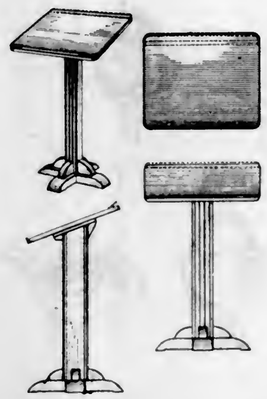
DESIGNS
APRIL 28, 1942

132,165
DESIGN FOR A CHAIR
William A. Burke, South Bend, Ind., assignor to Oriental Wrought Iron Works, Inc., South Bend, Ind., a corporation of Indiana
Application December 15, 1941, Serial No. 104,648
Term of patent 3½ years



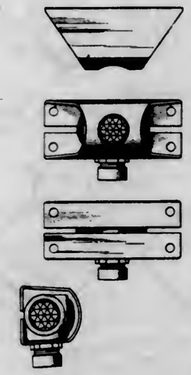
The ornamental design for a chair, as shown and described.

132,166
DESIGN FOR A SCORE TABLE OR THE LIKE
Ellery J. Cloutier, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a corporation of Delaware
Application February 6, 1942, Serial No. 105,659
Term of patent 14 years



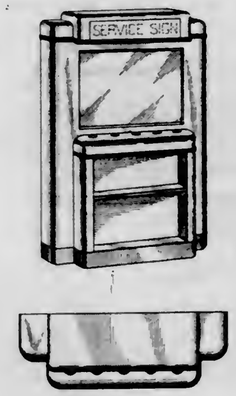
The ornamental design for a score table or the like, as shown and described.

132,167
DESIGN FOR A VEHICLE LAMP OR SIMILAR ARTICLE
Samuel M. Dover, Chicago, Ill.
Application June 30, 1941, Serial No. 101,819
Term of patent 7 years



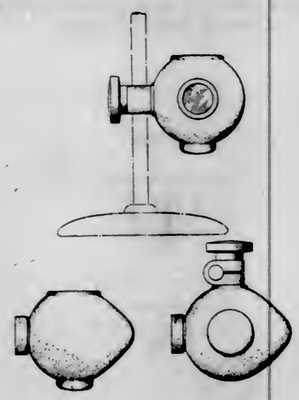
The ornamental design for a vehicle lamp or similar article, substantially as shown.

132,168
DESIGN FOR A MERCHANDISING DISPLAY CABINET OR SIMILAR ARTICLE
George M. Graham, Detroit, Mich., assignor to Hinckley-Myers Company, Jackson, Mich.
Application October 25, 1941, Serial No. 103,891
Term of patent 3½ years



The ornamental design for a merchandising display cabinet or similar article, substantially as shown.

132,169
DESIGN FOR AN ILLUMINATING PROJECTOR
William F. Peck, Snyder, N. Y., assignor to Spencer Lens Company, Buffalo, N. Y., a corporation of New York
Application March 7, 1941, Serial No. 99,405
Term of patent 3½ years



The ornamental design for an illuminating projector, substantially as shown and described.

132,170
DESIGN FOR A PLAQUE
Gabriel P. Alvino, Newark, N. J.
Application December 24, 1941, Serial No. 104,831
Term of patent 3½ years



The ornamental design for a plaque, as shown.

132,171
DESIGN FOR A BOWLING ALLEY SCORE TABLE
Albert Bersin, Brooklyn, N. Y.
Application February 17, 1941, Serial No. 99,039
Term of patent 7 years



The ornamental design for a bowling alley score table, as shown.

132,172
DESIGN FOR AN AVIATOR'S OXYGEN MASK OR SIMILAR ARTICLE
Walter M. Boothby and William Randolph Lovelace, II, Rochester, Minn.
Application June 19, 1940, Serial No. 93,092
Term of patent 14 years



The ornamental design for an aviator's oxygen mask or similar article, as shown.

132,173
DESIGN FOR AN ORONASAL MASK
Walter M. Boothby and William Randolph Lovelace, II, Rochester, Minn.
Application October 4, 1940, Serial No. 95,630
Term of patent 14 years



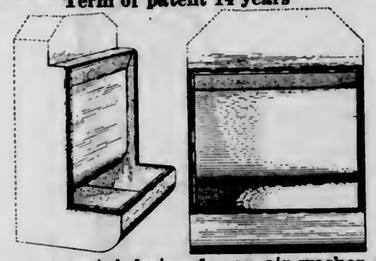
The ornamental design for an oronasal mask, substantially as shown.

132,174
DESIGN FOR A CHAIR
William A. Burke, South Bend, Ind., assignor to Oriental Wrought Iron Works, Inc., South Bend, Ind., a corporation of Indiana
Application December 15, 1941, Serial No. 104,649
Term of patent 3½ years



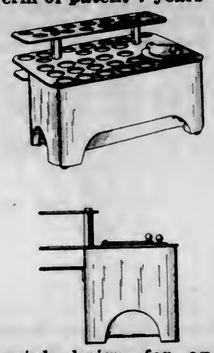
The ornamental design for a chair, as shown and described.

132,175
DESIGN FOR AN AIR WASHER CASING OR SIMILAR ARTICLE
Alfred J. Dalton, Detroit, Mich., assignor to Industrial Sheet Metal Works, Inc., Detroit, Mich.
Application August 18, 1941, Serial No. 102,911
Term of patent 14 years



The ornamental design for an air washer casing or similar article, as shown and described.

132,176
DESIGN FOR AN ELECTRICALLY HEATED WATER BATH
Samuel Duberstein, Brooklyn, N. Y., assignor to American Sundries Company, Inc., a corporation of New York
Application May 22, 1941, Serial No. 101,183
Term of patent 7 years



The ornamental design for an electrically heated water bath, substantially as shown and described.

132,177
DESIGN FOR A BUILDING
Standish Forde Hansell, Eddington, Pa.
Application October 24, 1941, Serial No. 103,885
Term of patent 14 years



The ornamental design for a building, substantially as shown.

132,178
DESIGN FOR A REFUSE RECEPTACLE OR SIMILAR ARTICLE
Russell C. Heisiag, Brooklyn, N. Y.
Application October 28, 1941, Serial No. 103,916
Term of patent 7 years



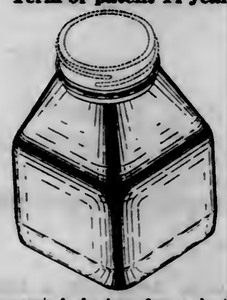
The ornamental design for a refuse receptacle or similar article, substantially as shown and described.

132,179
DESIGN FOR A PENNANT OR SIMILAR ARTICLE
Irving Hordes, Yonkers, N. Y.
Application February 17, 1942, Serial No. 105,851
Term of patent 3½ years



The ornamental design for a pennant or similar article, substantially as shown.

132,180
DESIGN FOR A BOTTLE OR SIMILAR ARTICLE
Meredith Stewart Ireys, Lancaster, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application December 17, 1941, Serial No. 104,682
Term of patent 14 years



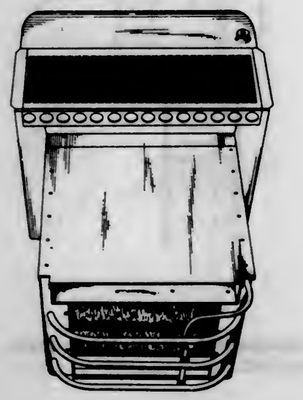
The ornamental design for a bottle or similar article substantially as shown and described.

132,181
DESIGN FOR A STATUETTE
Leo Jiranek, New York, N. Y., assignor to Boynton and Company, Chicago, Ill., a corporation of Illinois
Application February 16, 1942, Serial No. 105,835
Term of patent 3½ years

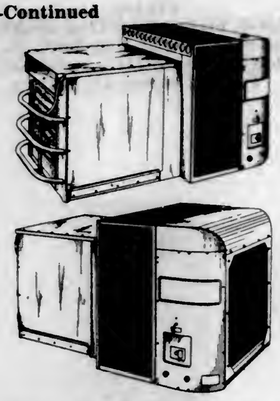


The ornamental design for a statuette, as shown and described.

132,182
DESIGN FOR AN AIR CONDITIONING UNIT
Frederick M. Jones, Minneapolis, Minn., assignor to U S Thermo Control Company, an association composed of Joseph A. Numero and M. Green
Application April 10, 1941, Serial No. 100,294
Term of patent 14 years

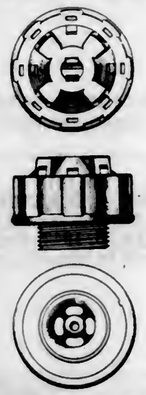


132,182—Continued



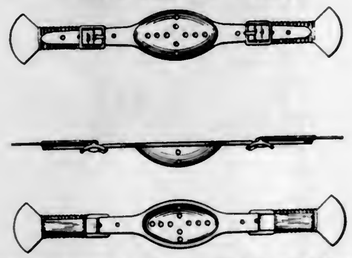
The ornamental design for an air conditioning unit, as shown and described.

132,183
DESIGN FOR A SPRAY NOZZLE
John O. Lewis, New York, N. Y.
Application February 7, 1942, Serial No. 105,705
Term of patent 14 years



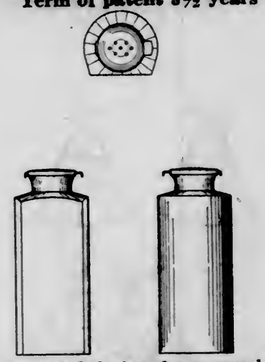
The ornamental design for a Spray nozzle, substantially as shown.

132,184
DESIGN FOR HEADGEAR CHIN STRAP
Harold J. Lyon, Los Angeles, Calif.
Application December 2, 1941, Serial No. 104,437
Term of patent 7 years



The ornamental design for a headgear chin strap, substantially as shown.

132,185
DESIGN FOR A POWDER DISPENSER OR SIMILAR ARTICLE
Frank McIntosh, New York, N. Y., assignor to Lentheric Incorporated, New York, N. Y., a corporation of New York
Application May 16, 1941, Serial No. 100,980
Term of patent 3½ years



The ornamental design for a powder dispenser or similar article, substantially as shown.

132,186
DESIGN FOR A BADGE OR SIMILAR ARTICLE
Irwin A. Stark, Brooklyn, N. Y.
Application January 7, 1942, Serial No. 105,065
Term of patent 3½ years



The ornamental design for a badge or similar article, substantially as shown.

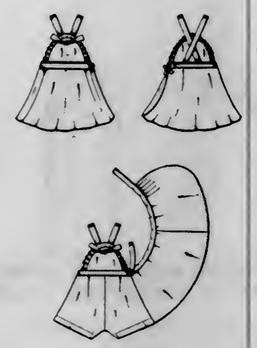
132,187
DESIGN FOR A JEWELRY FINDING
Laurence Valcourt, Pawtucket, R. I., assignor to Carl-Art, Inc., Providence, R. I., a corporation of Rhode Island
Application May 5, 1941, Serial No. 100,799
Term of patent 7 years





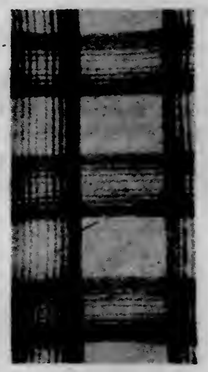
The ornamental design for a jewelry finding, substantially as shown.

132,188
DESIGN FOR A CHILD'S COMBINATION GARMENT
David Widrow, New York, N. Y., assignor to G., H. & E. Freydberg, Inc., New York, N. Y., a corporation of New York
Application February 16, 1942, Serial No. 105,836
Term of patent 7 years



The ornamental design for a child's combination garment, as shown.

132,189
DESIGN FOR A WOVEN TEXTILE FABRIC
Philip L. Lawrence, New York, N. Y.
Application March 27, 1942, Serial No. 106,340
Term of patent 3½ years



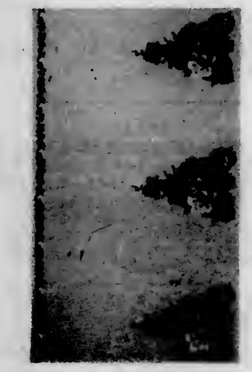
The ornamental design for a woven textile fabric, substantially as shown.

132,190
DESIGN FOR A TEXTILE FABRIC
Jacques E. Maisch, New York, N. Y.
Application March 25, 1942, Serial No. 106,323
Term of patent 3½ years



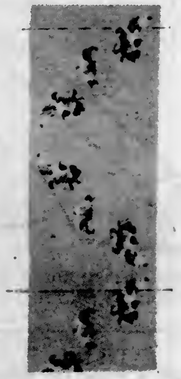
The ornamental design for a textile fabric, substantially as shown and described.

132,191
DESIGN FOR A TEXTILE FABRIC
Jacques E. Maisch, New York, N. Y.
Application March 25, 1942, Serial No. 106,324
Term of patent 3½ years



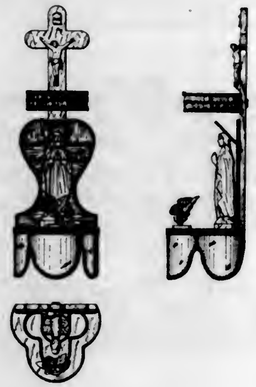
The ornamental design for a textile fabric, substantially as shown.

132,192
DESIGN FOR A TEXTILE FABRIC
Jacques E. Maisch, New York, N. Y.
Application March 25, 1942, Serial No. 106,325
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown and described.

132,193
DESIGN FOR AN ALTAR
Lawrence J. Murphy, Brooklyn, N. Y.
Application January 8, 1942, Serial No. 105,074
Term of patent 7 years



The ornamental design for an altar, as shown.

132,194
DESIGN FOR AN AUTOMOBILE HORN KEYBOARD SWITCH OR THE LIKE
Peter Nielsen, Omaha, Nebr., assignor to Jubilee Manufacturing Company, Omaha, Nebr., a corporation of Nebraska
Application February 19, 1941, Serial No. 99,119
Term of patent 7 years



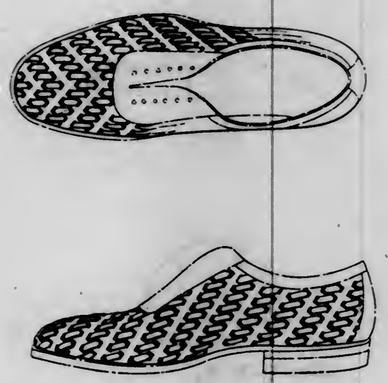
The ornamental design for an automobile horn keyboard switch or the like, as shown and described.

132,195
DESIGN FOR AN UMBRELLA FERRULE
Morris Shedlo, New York, N. Y.
Application January 23, 1942, Serial No. 105,380
Term of patent 14 years



The ornamental design for an umbrella ferrule, substantially as shown.

132,196
DESIGN FOR A SHOE
Claude H. Daniels, Greenwich, Conn.
Application February 5, 1942, Serial No. 105,651
Term of patent 14 years



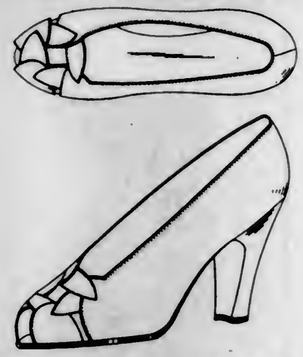
The ornamental design for a shoe, substantially as shown and described.

132,197
DESIGN FOR A SHOE
Claude H. Daniels, Greenwich, Conn.
Application February 5, 1942, Serial No. 105,652
Term of patent 14 years



The ornamental design for a shoe, substantially as shown and described.

132,198
DESIGN FOR A SHOE OR SIMILAR ARTICLE
Newton Elkin, Philadelphia, Pa.
Application March 22, 1942, Serial No. 106,284
Term of patent 3½ years



The ornamental design for a shoe or similar article, substantially as shown.

132,199
DESIGN FOR A PAIR OF SPECTACLES
George E. Nerney, Attleboro, Mass., assignor to Bay State Optical Company, Attleboro, Mass., a corporation of Maine
Application March 3, 1941, Serial No. 99,296
Term of patent 14 years



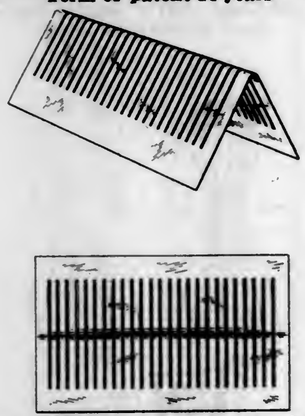
The ornamental design for a pair of spectacles, substantially as shown and described.

132,200
DESIGN FOR A PAIR OF SPECTACLES
George E. Nerney, Attleboro, Mass., assignor to Bay State Optical Company, Attleboro, Mass., a corporation of Maine
Application March 3, 1941, Serial No. 99,297
Term of patent 14 years



The ornamental design for a pair of spectacles, substantially as shown and described.

132,201
DESIGN FOR A PHONOGRAPH RECORD RACK
Frank D. Slough, Mentor, Ohio
Application February 8, 1940, Serial No. 90,124
Term of patent 14 years



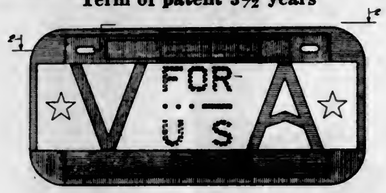
The ornamental design for a phonograph record rack, substantially as shown.

132,202
DESIGN FOR A LACE TRIMMING OR SIMILAR ARTICLE
Hans Tobler, Teaneck, N. J.
Application February 28, 1942, Serial No. 106,039
Term of patent 3½ years



The ornamental design for a lace trimming or similar article, substantially as shown.

132,203
DESIGN FOR A DISPLAY PLATE FOR AUTOMOBILES
Harry Eizenberg, Brooklyn, N. Y.
Application January 26, 1942, Serial No. 105,440
Term of patent 3½ years



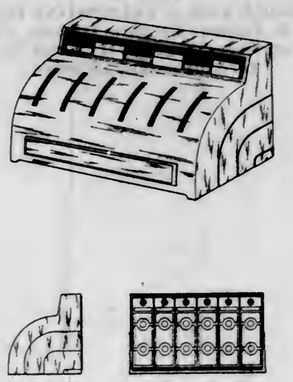
The ornamental design for a display plate for automobiles, substantially as shown and described.

132,204
DESIGN FOR A SERVICE FLAG
James W. Mellen, Los Angeles, Calif.
Application February 6, 1942, Serial No. 105,661
Term of patent 3½ years



The ornamental design for a service flag, as shown.

132,205
DESIGN FOR A BUDGET BANK
Malcolm A. Vendig, Sandspoint, Long Island, N. Y.
Application December 24, 1941, Serial No. 104,822
Term of patent 7 years



The ornamental design for a budget bank, as shown and described.

132,206
DESIGN FOR A DOLL GROUP
Dora Mohr, Boston, Mass.
Application September 3, 1941, Serial No. 103,143
Term of patent 7 years



The ornamental design for a doll group, substantially as shown.

132,207
DESIGN FOR A TELEPHONE INDEX
Philip D. Palmer, Toronto, Ontario, Canada
Application December 1, 1941, Serial No. 104,419
Term of patent 14 years



The ornamental design for a telephone index, as shown and described.

132,208
DESIGN FOR A COAT
Israel Buchholz, New York, N. Y.
Application February 9, 1942, Serial No. 105,711
Term of patent 3½ years



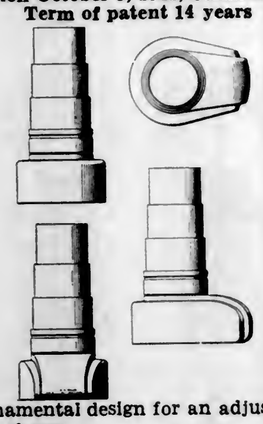
The ornamental design for a coat, substantially as shown.

132,209
DESIGN FOR A MILK BOTTLE CRATE
John A. Christensen, Arlington, Mass.
Application January 4, 1941, Serial No. 97,811
Term of patent 14 years



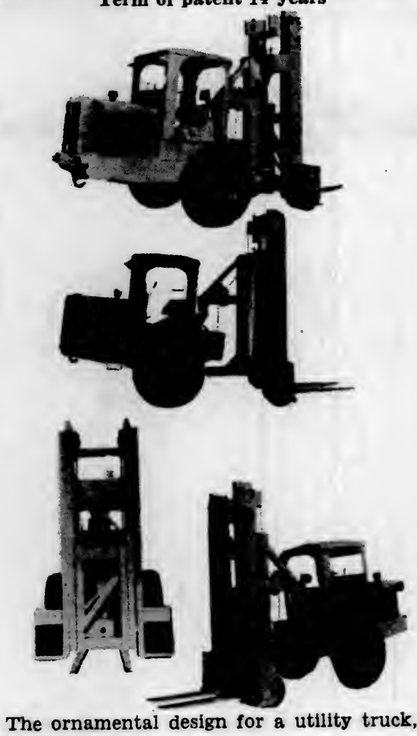
The ornamental design for a milk bottle crate, substantially as shown.

132,210
DESIGN FOR AN ADJUSTABLE CHAIR CASING
Henry Dreyfuss, New York, N. Y., assignor to The S. S. White Dental Manufacturing Company, a corporation of Pennsylvania
Application October 9, 1941, Serial No. 103,700
Term of patent 14 years



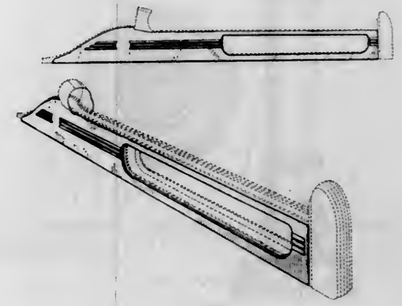
The ornamental design for an adjustable chair casing, as shown.

132,211
DESIGN FOR A UTILITY TRUCK
Oscar Raymond Peterson, Tournapull, Ga., assignor to R. G. Le Tourneau, Inc., a corporation
Application October 10, 1941, Serial No. 103,708
Term of patent 14 years



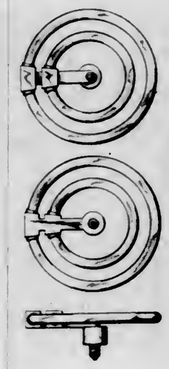
The ornamental design for a utility truck, as shown.

132,212
DESIGN FOR A BOWLING BALL RACK OR THE LIKE
Robert E. Kennedy, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a corporation of Delaware
Application January 16, 1942, Serial No. 105,234
Term of patent 14 years



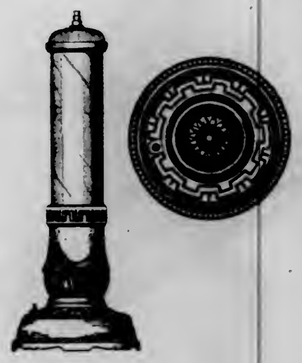
The ornamental design for bowling ball rack or the like, as shown and described.

132,213
DESIGN FOR A FLUORESCENT LAMP
Earl F. Miller, Creve Coeur, Ill.
Application January 16, 1942, Serial No. 105,247
Term of patent 14 years



The ornamental design for a fluorescent lamp, as shown and described.

132,214
DESIGN FOR A FLUORESCENT TABLE LAMP
Carl Edward Swanson, Chicago, Ill.
Application March 13, 1942, Serial No. 106,191
Term of patent 14 years



The ornamental design for a fluorescent table lamp, substantially as shown.

132,215
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application March 30, 1942, Serial No. 106,360
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,216
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application March 30, 1942, Serial No. 106,362
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,217
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application March 30, 1942, Serial No. 106,363
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,218
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application March 30, 1942, Serial No. 106,364
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,219
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application March 30, 1942, Serial No. 106,365
Term of patent 3½ years



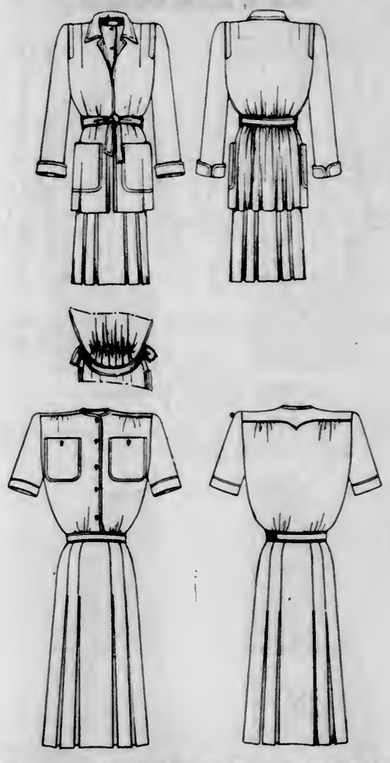
The ornamental design for a dress, substantially as shown.

132,220
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application March 30, 1942, Serial No. 106,366
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,221
DESIGN FOR A DRESS ENSEMBLE
Bonnie Cashin, New York, N. Y.
Application March 30, 1942, Serial No. 106,367
Term of patent 3½ years



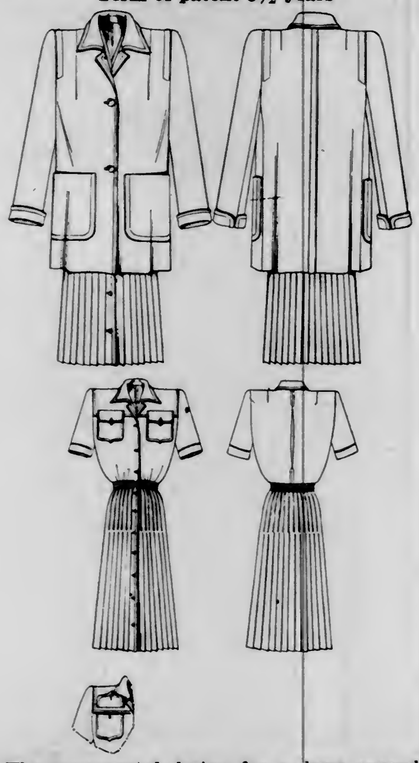
The ornamental design for a dress ensemble, substantially as shown.

132,222
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application March 30, 1942, Serial No. 106,368
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,223
DESIGN FOR A DRESS ENSEMBLE
Bonnie Cashin, New York, N. Y.
Application March 30, 1942, Serial No. 106,369
Term of patent 3½ years



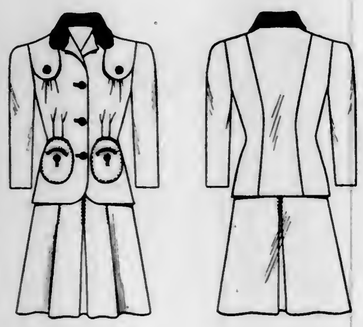
The ornamental design for a dress ensemble, substantially as shown.

132,224
DESIGN FOR A DRESS
Elizabeth Cutler, New York, N. Y.
Application March 30. 1942, Serial No. 106,371
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,225
DESIGN FOR A SUIT
Abraham Ducket, New York, N. Y.
Application April 4, 1942, Serial No. 106,459
Term of patent 3½ years



The ornamental design for a suit, substantially as shown.

132,226
DESIGN FOR A DRESS
Sadie Elmo, New York, N. Y.
Application March 30, 1942, Serial No. 106,377
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,227
DESIGN FOR A DRESS
Sadie Elmo, New York, N. Y.
Application March 30, 1942, Serial No. 106,378
Term of patent 3½ years



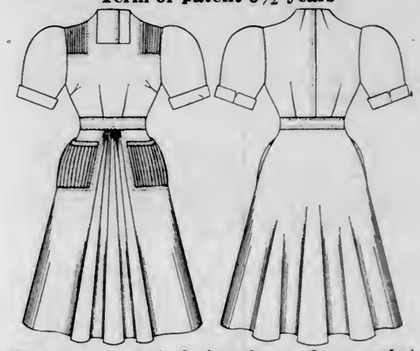
The ornamental design for a dress, substantially as shown.

132,228
DESIGN FOR A DRESS
Sadie Elmo, New York, N. Y.
Application March 30, 1942, Serial No. 106,379
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,229
DESIGN FOR A DRESS
Alexander S. Gross, New York, N. Y.
Application March 25, 1942, Serial No. 106,318
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,230
DESIGN FOR A DRESS
Alexander S. Gross, New York, N. Y.
Application March 25, 1942, Serial No. 106,319
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,231
DESIGN FOR A DRESS
Alexander S. Gross, New York, N. Y.
Application March 25, 1942, Serial No. 106,320
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,232
DESIGN FOR A DRESS
Alexander S. Gross, New York, N. Y.
Application March 25, 1942, Serial No. 106,321
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,233
DESIGN FOR A DRESS
Enid Rosenberg, New York, N. Y.
Application March 30, 1942, Serial No. 106,372
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,234
DESIGN FOR A DRESS
Enid Rosenberg, New York, N. Y.
Application March 30, 1942, Serial No. 106,373
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,235
DESIGN FOR A DRESS
Enid Rosenberg, New York, N. Y.
Application March 30, 1942, Serial No. 106,374
Term of patent 3½ years



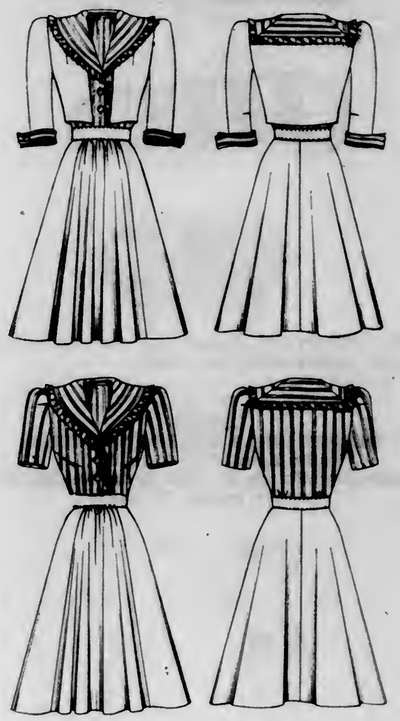
The ornamental design for a dress, substantially as shown.

132,236
DESIGN FOR A DRESS
Enid Rosenberg, New York, N. Y.
Application March 30, 1942, Serial No. 106,375
Term of patent 3½ years



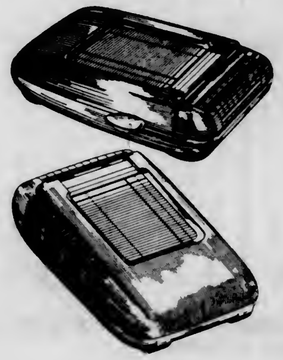
The ornamental design for a dress, substantially as shown.

132,237
DESIGN FOR A DRESS ENSEMBLE
Enid Rosenberg, New York, N. Y.
Application March 30, 1942, Serial No. 106,376
Term of patent 3½ years

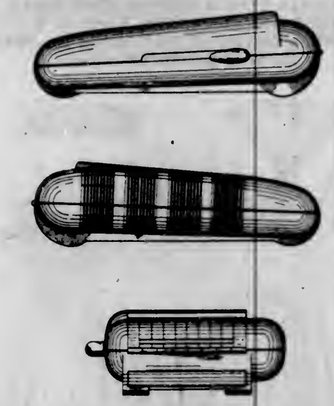


The ornamental design for a dress ensemble, substantially as shown.

132,238
DESIGN FOR AN AUTOGRAPHIC REGISTER
Carl W. Sundberg, Birmingham, Mich., assignor to The Standard Register Company, Dayton, Ohio, a corporation of Ohio
Application March 5, 1941, Serial No. 99,366
Term of patent 14 years

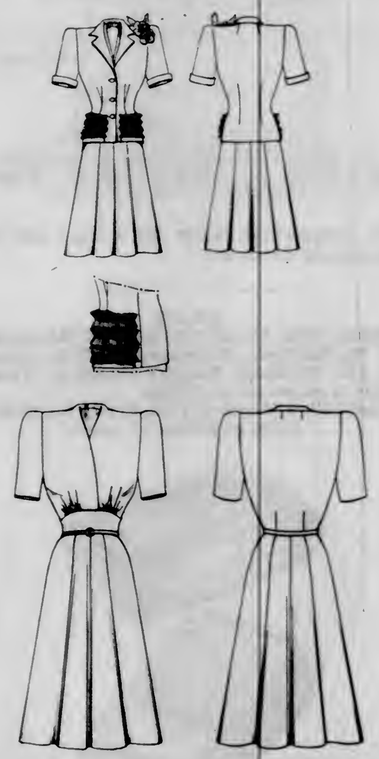


132,238—Continued



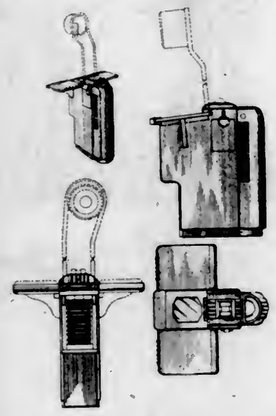
The ornamental design for an autographic register, substantially as shown.

132,239
DESIGN FOR A DRESS ENSEMBLE
Philip Zahn, New York, N. Y.
Application March 30, 1942, Serial No. 106,370
Term of patent 3½ years



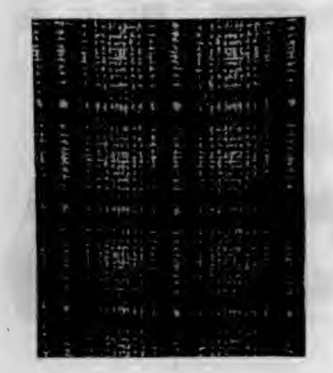
The ornamental design for a dress ensemble, substantially as shown.

132,240
DESIGN FOR A COMBINED SCORE TABLE AND SCORE PROJECTOR OR SIMILAR ARTICLE
Ellery J. Cloutier, Muskegon, Mich., assignor to Brunswick-Balke-Collender Company, Chicago, Ill., a corporation of Delaware
Application February 6, 1942, Serial No. 105,660
Term of patent 14 years



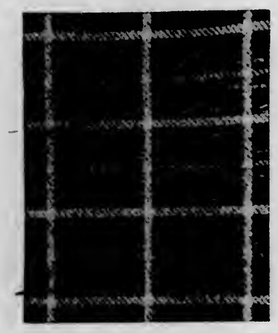
The ornamental design for a combined score table and score projector or similar article, as shown and described.

132,241
DESIGN FOR A TEXTILE FABRIC
Robert H. Coe, Worcester, Mass.
Application April 2, 1942, Serial No. 106,432
Term of patent 3½ years



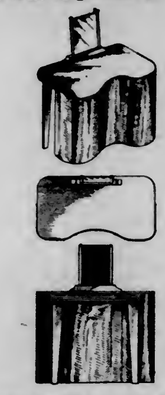
The ornamental design for a textile fabric, substantially as shown.

132,242
DESIGN FOR A TEXTILE FABRIC
Robert H. Coe, Worcester, Mass.
Application April 2, 1942, Serial No. 106,433
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown.

132,243
DESIGN FOR A TOY DRESSING TABLE OR THE LIKE
Jacob Pressman, New York, N. Y.
Application February 17, 1942, Serial No. 105,841
Term of patent 14 years



The ornamental design for a toy dressing table or the like, substantially as shown.

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CONTENTS

	Page
DECISIONS OF THE COMMISSIONER OF PATENTS, May 5, 12, 19, 26	3, 241, 503, 741
TRADE-MARKS PUBLISHED AND REGISTERED, May 5, 12, 19, 26	11, 255, 513, 757
REISSUES, May 5, 12, 19, 26	35, 281, 539, 785
PLANT PATENTS, May 5, 12, 19, 26	36, 282, —, 786
PATENTS, May 5, 12, 19, 26	37, 283, 540, 788
DESIGNS, May 5, 12, 19, 26	218, 484, 719, 959

ANNOUNCEMENTS

	Page
APPLICATIONS—Condition of pending	2, 240, 502, 740
ADVERSE DECISIONS IN INTERFERENCE	10, 511
ATTORNEYS—Examination of—Rule 17	1
BULLETIN OF DECISIONS ON TRADE-MARKS	749
CLASSIFICATION OF INVENTION—Changes in—*Order No. 3618*	249
Order No. 3619	511
DEFENSE COMMITTEE—Name changed to Patent Office War Committee	1
ERRATUM—Bulletin of Decisions on Trade-Marks	1
Patent Suits	501
DISCLAIMERS—Arndt, Jack W	10
Bacon, Dana Howland	511
Dorfman, Louis J	748
Eitzen, August D	511
Gillespie, Charles P., et al	10
Knott, Wm. T., Company, Inc	10
Lawton, Howard C	10
MacLaren, Frederick H	10
Mason, Warren P	511
McEachron, Karl B	511
Shoemaker, Bernard H., et al	511
Steinmeyer, Alwin G	748
Suits, Chauncey G	10
St. Pierre, Eugene	10
Thomas, Joseph R	748
Thompson, Leslie E., et al	748
Wooster, Philip A	511
LICENSES—Public 239, Amendment to	739
Executive Order 8389—Public Circular 5-A	739
PATENT SUITS	9, 248, 509, 746
PATENTS—List of adjudicated	9, 239, 501, 747
TRADE-MARK REGISTRATIONS CANCELED	511
Notice of Cancellation	1, 239, 501, 739

TABLE OF CASES REPORTED

	Page
▪ Canadian-American Pharmaceutical Company *v.* Coe, Com. of Patents	4
*Colin, In re	5
*Davis et al., In re	241
*Farnsworth *v.* Brown, et al	242
*Fischer, In re	503
*Gunther, In re	744
*Helmond, In re	246
*Kesling, In re	505
▪ Stonite Products Company *v.* The Melvin Lloyd Company et al	3
	7
*Taub, et al., In re	
▪ U. S. Industrial Chemicals, Inc., *v.* Carbide and Carbon Chemicals Corp	741

(Decisions of the United States Court of Appeals for the District of Columbia are indicated by the letter (▪); of the United States Court of Customs and Patent Appeals by a star (*); and of the Supreme Court of the United States by the letter (▪).)

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LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Aarons Manufacturing Co. (See Tenenbaum, Aaron.)
Abraham & Straus, Inc., Brooklyn, N. Y. Women's and misses' blouses. Serial No. 451,404; May 5. Class 39.
Allied Stores Corporation, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash., and Dey Brothers & Company, Wilmington, Del. Glass pots and pans. Serial No. 451,432; May 5. Class 33.
American Bolex Company, New York, N. Y. Tripod heads for adjustably mounting cameras. Serial No. 450,637; May 5. Class 26.
American Character Doll Corporation, New York, N. Y. Dolls. Serial No. 451,524; May 5. Class 22.
American Cyanamid & Chemical Corporation, New York, N. Y. Chemical preparation. Serial No. 450,153; May 5. Class 6.
American Optical Company, Southbridge, Mass. Ophthalmic lenses, eye protection lenses, blanks for such lenses, goggles, and sunglasses. Serial No. 439,918; May 5. Class 26.
Arco Company, The, Cleveland, Ohio. Paints, varnishes, lacquers, etc. Serial No. 450,704; May 5. Class 16.
Atlas Powder Company, Wilmington, Del. Paints and paint enamels, paint colors, etc. Serial No. 451,254; May 5. Class 16.
Avon Products, Inc., New York, N. Y. Perfumes. Serial No. 451,794; May 5. Class 6.
Ayers, Milton I., Bloomfield, N. J. Tablet, capsule, pill, or like unit counting dispensing and feeding-into-container apparatus and fixtures therefor. Serial No. 444,520; May 5. Class 26.
Ballerino, Louella, Los Angeles, Calif. Ladies' and children's dresses, slacks, and playsuits. Serial No. 450,951; May 5. Class 39.
Benson, N. P., Optical Company, Inc., Minneapolis, Minn. Eyeglass lenses and eyeglass edge finishes. Serial No. 451,830; May 5. Class 26.
Beol, Inc., New York, N. Y. Ladies' hosiery. Serial No. 451,283; May 5. Class 39.
Best's Apparel, Inc., Seattle, Wash. Women's, ladies', and misses' dresses, blouses, skirts, etc. Serial No. 451,619; May 5. Class 39.
Bon Marche, The. (See Allied Stores Corporation.)
Book Match Hobby Club. (See Carter, Joanne.)
Burry Biscuit Corporation, Elizabeth, N. J. Crackers. Serial No. 451,288; May 5. Class 46.
California Growers Wineries, Cutler, Calif. Brandy. Serial No. 441,047; May 5. Class 49.
Campbell Products, Inc., New York, N. Y. Preparation for use in rectal therapy. Serial No. 451,545; May 5. Class 6.
Carter, Joanne, doing business as Book Match Hobby Club, Rochester, N. Y. Publication. Serial No. 448,600; May 5. Class 38.
Century Metalcraft Corporation, Chicago, Ill. Celery soup mix, flavoring base, canned soy beans, etc. Serial No. 450,157; May 5. Class 46.
Ciba Pharmaceutical Products, Inc., Summit, N. J. Pharmaceutical vitamin preparation. Serial No. 451,530; May 5. Class 6.
Commander-Larabee Milling Company, doing business as Buffalo Flour Mills Corporation, Buffalo, N. Y. Wheat flour. Serial No. 446,993; May 5. Class 46.
Congress Shirt Company, Boston, Mass. Men's and boys' coats, jackets, outer shirts, etc. Serial No. 450,537; May 5. Class 39.
Consolidation Coal Company, New York, N. Y. Coal. Serial No. 451,263–3; May 5. Class 1.
Consumers Cooperative Association, North Kansas City, Mo. Periodical. Serial No. 450,273; May 5. Class 38.
Copyright Carbon Corporation, Cleveland, Ohio. Carbon papers and typewriter ribbons. Serial No. 449,409; May 5. Class 11.
Cucamonga Winery, Cucamonga, Calif. Wines. Serial No. 446,793; May 5. Class 47.
Davenport Hosiery Mills, Inc., Chattanooga, Tenn. Hosiery. Serial No. 451,593; May 5. Class 39.
Davis & Geck, Inc., Brooklyn, N. Y. Surgical ligatures and sutures. Serial No. 451,929; May 5. Class 44.
Delegation of Meat Packers of Poland, Inc., New York, N. Y. Canned cooked ham. Serial No. 440,496; May 5. Class 46.
Deliguori, Fred, Washington, D. C. Cleaning compound. Serial No. 450,728; May 5. Class 4.
Dey Brothers & Company. (See Allied Stores Corporation.)
Dolge, C. C., Company, The, Westport, Conn. Cutting oil germicide. Serial No. 451,640; May 5. Class 6.
Dorr Company, Inc., The, New York, N. Y. Apparatus for the treatment of solids suspended in liquids and more particularly for apparatus or equipment known as thickeners or clarifiers. Serial No. 450,793; May 5. Class 23.
Douglas Machinery Co., Inc., New York, N. Y. Grinding machines. Serial No. 450,761; May 5. Class 23.
Duluth Universal Milling Co., Duluth, Minn. Wheat flour. Serial No. 451,594; May 5. Class 46.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Explosive rivets. Serial No. 448,822; May 5. Class 13.
Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Etching knives. Serial No. 451,808; May 5. Class 23.
Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Air filters and filter cotton. Serial No. 451,810; May 5. Class 31.
Eisendrath, B. D., Tanning Co., Chicago, Ill. Leather. Serial No. 450,734; May 5. Class 1.
Emery and Redmond, New York, N. Y. Portable electric cooking and heating stoves. Serial No. 425,086; May 5. Class 21.
Endo Products, Inc., New York, N. Y. Preparation of calcium pantothenate. Serial No. 451,166; May 5. Class 6.
Eversharp, Inc., Chicago, Ill. Mechanical pencils. Serial No. 451,167; May 5. Class 37.
Firestone Tire & Rubber Company, The, Akron, Ohio. Fishing lines. Serial No. 448,320–1; May 5. Class 22.
Flotill Products, Incorporated, Stockton, Calif. Canned tomatoes. Serial No. 449,480; May 5. Class 46.
General Chemical Company, New York, N. Y. Calcium sulfate. Serial No. 451,767; May 5. Class 6.
Goldman, Albert S., doing business as Mutual Sportswear Company, New York, N. Y. Outer shirts, sportcoats, lumber jackets, etc. Serial No. 450,201; May 5. Class 39.
Goodman & Suss Clothes Corporation, New York, N. Y. Men's coats, vests, trousers, etc. Serial No. 440,589; May 5. Class 39.
Grand Rapids Bookcase & Chair Co., Hastings, Mich. Furniture. Serial No. 450,628; May 5. Class 32.
Great Atlantic & Pacific Tea Company, The, New York, N. Y. Household cleanser. Serial No. 451,035; May 5. Class 4.
Greensboro Cotton Twine Company. (See Yancey, Clement L., Jr.)
Hanley and Kinsella Laboratories, Inc., St. Louis, Mo. Insecticide. Serial No. 451,232; May 5. Class 6.
Harrison, Helen, New York, N. Y. Periodical. Serial No. 451,597; May 5. Class 38.
Hawkins, Tom C. (See Olson, Eric R., and Tom C. Hawkins.)
Hoffmann-La Roche, Inc., Nutley, N. J. Medicinal preparation. Serial No. 451,108; May 5. Class 6.
Hygrade Food Products Corporation, New York, N. Y. Cheese. Serial No. 450,540; May 5. Class 46.
Kellogg, John L., Company, Chicago, Ill. Coffee. Serial No. 439,697; May 5. Class 46.
Keyes Fibre Company, Waterville, Maine. Mold charge in the nature of a molding compound. Serial No. 449,423; May 5. Class 1.
Lee Sportswear Co., New York, N. Y. Ladies', men's, and children's slacks, overalls, slack and blouse combinations, etc. Serial No. 450,311; May 5. Class 39.
Lehn & Fink Products Corporation, Bloomfield, N. J. Anti-perspirant and deodorant cream. Serial No. 448,734; May 5. Class 6.
Lentheric, Incorporated, New York, N. Y. Perfumes, toilet waters, and cosmetic creams. Serial No. 451,554; May 5. Class 6.
Lentheric, Incorporated, New York, N. Y. Lipsticks and rouges. Serial No. 451,897; May 5. Class 6.
Moss, David L., & Co., Inc., New York, N. Y. Machinery and equipment. Serial No. 449,739; May 5. Class 23.
Mutual Products Company, Minneapolis, Minn. Stock food and calf pellets containing milk. Serial No. 450,770; May 5. Class 46.
Mutual Sportswear Company. (See Goldman, Albert S.)
National Fruit Product Company, Inc., Winchester, Va. Apple cider vinegar, canned apples, apple sauce, etc. Serial No. 446,951; May 5. Class 46.
Neumann-Endler, Incorporated, Danbury, Conn. Men's, women's, and children's wool hats. Serial No. 450,402; May 5. Class 39.
Newton Line Company, Inc., Homer, N. Y. Fish lines. Serial No. 445,241; May 5. Class 22.
North American Mfg. Co., Chicago, Ill. Electric fluorescent lamps. Serial No. 447,293; May 5. Class 21.
Okie, Reginald W., Brooklyn, N. Y. Beverages and extracts. Serial No. 451,537; May 5. Class 45.
Olson, Eric R., and Tom C. Hawkins, Crafton, Pa. Medicinal preparation for livestock. Serial No. 451,825; May 5. Class 6.
Parke, Davis & Company, Detroit, Mich. Preparations containing cardioactive constituents of digitalis. Serial No. 451,847; May 5. Class 6.
Parke, Davis & Company, Detroit, Mich. Preparations containing progestin. Serial No. 451,848; May 5. Class 6.

Parke, Davis & Company, Detroit, Mich. Preparations used in treatment of fungus and other infections. Serial No. 451,849; May 5. Class 6.
Parke, Davis & Company, Detroit, Mich. Preparations used for protection of the skin. Serial No. 451,850; May 5. Class 6.
Parke, Davis & Company, Detroit, Mich. Vitamin preparation. Serial No. 451,852; May 5. Class 6.
Penberthy Injector Company, Detroit, Mich. Relief valves, reducing valves, and vacuum breakers. Serial No. 451,016; May 5. Class 13.
Personal Products Corporation, The, Milltown, N. J. Facial tissues. Serial No. 451,116; May 5. Class 37.
Pillsbury Flour Mills Company, Minneapolis, Minn. Prepared mixture for the making of cakes, rolls, etc. Serial No. 451,654; May 5. Class 46.
Premo Pharmaceutical Laboratories, Inc., New York, N. Y. Cough mixture. Serial No. 451,780; May 5. Class 6.
Premo Pharmaceutical Laboratories, Inc., New York, N. Y. Preparation of pyridoxine hydrochloride. Serial No. 451,781; May 5. Class 6.
Reduc-O-Matic Inc., New York, N. Y. Therapeutic apparatus. Serial No. 442,284; May 5. Class 44.
Republic Filters, Inc., Paterson, N. J. Filtering apparatus. Serial No. 451,826; May 5. Class 31.
Revlon Products Corporation, New York, N. Y. Cuticle nippers and scissors. Serial No. 450,742; May 5. Class 44.
Rogers, Charles, New York, N. Y. Preparation for the relief of pains, headaches, etc. Serial No. 451,579; May 5. Class 6.
Rosenfeld-Seltzer-Lipchitz, Inc., New York, N. Y. Women's and misses' fur coats. Serial No. 442,336; May 5. Class 39.
Roxalin Flexible Lacquer Company, Inc., Elizabeth, N. J., now by change of name, Roxalin Flexible Finishes, Inc. Coating material to be applied to window glass, skylights, etc., to render the same shatterproof. Serial No. 451,147; May 5. Class 16.
Sanette Manufacturing Co., Inc., New York, N. Y. First aid treated strips, gauze pad, and cotton cloth backing, etc. Serial No. 451,040; May 5. Class 44.
Saunders, J. F. (See Williams, A. K., and J. F. Saunders.)
Shanhouse, W., Sons, Inc., Rockford, Ill. Outer garments for men, women and children. Serial No. 451,580; May 5. Class 39.
Simon, Franklin, & Co., Inc., New York, N. Y. Women's and misses' dresses. Serial No. 449,502; May 5. Class 39.
Singer Manufacturing Company, The, Elizabeth, N. J. Lubricating oils. Serial No. 450,815; May 5. Class 15.
Slenda Vogue, Inc., New York, N. Y. Electrical apparatus for exercising. Serial No. 441,789; May 5. Class 44.
Smith, Wallace W., Chicago, Ill. Air navigation calculating devices. Serial No. 451,510; May 5. Class 26.
Stansfield, J. E., Arvin, Calif. Fresh grapes. Serial No. 448,342; May 5. Class 46.
Steckler, Nat P., New York, N. Y. Suspensories, abdominal supporters, trusses, etc. Serial No. 446,249; May 5. Class 44.
Stone, Clarence H., doing business as C. H. Stone Company, Lynnfield Center, Mass. Solvent soap and waterproofing agents for leather. Serial No. 447,989; May 5. Class 4.
Syncro Machine Company, Rahway, N. J. Rod and wire drawing machines; rod and wire spooling machines; etc., and parts thereof. Serial No. 450,773; May 5. Class 23.
Taylor Wine Company, The, Hammondsport, N. Y. Wine. Serial No. 451,043; May 5. Class 47.
Tenenbaum, Aaron, doing business as Aarons Manufacturing Co., New York, N. Y. Men's and boys' shorts; dress, negligee, and work shirts, etc. Serial No. 444,058; May 5. Class 39.
Tested Papers of America, Inc., Chicago, Ill. Toilet tissue. Serial No. 451,126; May 5. Class 37.
Tolerton & Warfield Co., Sioux City, Iowa. Dill seed, soup mixture, pepper, etc. Serial No. 437,977; May 5. Class 46.
Tremco Manufacturing Company, The, Cleveland, Ohio. Liquids for metal surfaces. Serial No. 451,787; May 5. Class 6.
Tribune Company, Chicago, Ill. Newspaper column. Serial No. 451,423–4; May 5. Class 38.
Tuttman, Harry, & Son, New York, N. Y. Dresses. Serial No. 451,327; May 5. Class 39.
Union Fork & Hoe Company, The, Columbus, Ohio. Hand operated tools. Serial No. 450,931; May 5. Class 23.
Wheatley & Wheatley, Kingston, Pa. Coal stokers. Serial No. 444,516; May 5. Class 34.
Whitehead Bros. Rubber Company, The, Trenton, N. J. Acid hose, air hose, chemical hose, etc. Serial No. 451,662; May 5. Class 35.
Wiener Machinery Company, Inc., New York, N. Y. Woodworking equipment. Serial No. 445,621; May 5. Class 23.
Williams, A. K., and J. F. Saunders, Boston, Mass. Specially processed metal sheets. Serial No. 449,197; May 5. Class 14.
Wilson-Imperial Company, Newark, N. J. Paint, varnish, enamel, etc. Serial No. 447,856; May 5. Class 16.
Worldover Press, Wilton, Conn. News release. Serial No. 450,525; May 5. Class 38.
X-Acto Crescent Products Co., Inc., New York, N. Y. Knives. Serial No. 451,863; May 5. Class 23.
Yancey, Clement L., Jr., doing business as Greensboro Cotton Twine Company, Greensboro, N. C. Cotton twine. Serial No. 451,734; May 5. Class 7.
Younghusband, James L., Chicago, Ill. Tampons. Serial No. 451,560; May 5. Class 44.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbotts Dairies, Incorporated, Philadelphia, Pa. Food product consisting of a layer of ice cream between two sugar wafers. 394,970; May 5; Serial No. 449,402; published Feb. 24, 1942. Class 46.
All-American Comics, Inc., New York, N. Y. Cartoons published in a series. 394,891; May 5; Serial No. 445,078; published Feb. 24, 1942. Class 38.
Allied Stores Corporation, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash. Hosiery. 395,028; May 5. Class 39.
American Display Company, The, Dayton, Ohio. Fishing rod and reel. 153,958; renewed Apr. 4, 1942.
American Stores Company, Philadelphia, Pa. Mint candy. 395,008; May 5. Class 46.
Anvelo Company, The. (See Dilley, Thomas E.)
Atlas Foundry Company, The, Cleveland, Ohio. Welding bars and rods. 159,264; renewed Sept. 26, 1942.
Augstein, S., & Co., College Point, New York city, N. Y. Sweaters, suits, bathing suits, scarfs, mufflers, etc. 394,980; May 5; Serial No. 449,565; published Feb. 24, 1942. Class 39.
Bahis, Harry E., doing business as Windsor Tobacco Company, Buffalo, N. Y. Tobacco. 395,002; May 5. Class 17.
Baldwin Locomotive Works, The, Eddystone, Pa. Machinery. 395,007; May 5. Class 23.
Barber, W. H., Company, Minneapolis, Minn. Gasoline. 158,385; renewed Sept. 5, 1942.
Bardinet, Ltd., New York, N. Y. Cordials. 394,933; May 5; Serial No. 448,751; published Feb. 24, 1942. Class 49.
Bear Brand Hosiery Co. (See Paramount Knitting Company, assignor.)
Belt Modes, Inc., New York, N. Y. Ladies' handbags. 394,962; May 5; Serial No. 449,336; published Feb. 24, 1942. Class 3.
Bierhaus, E., & Sons, Vincennes, Ind. Coffee. 394,875; May 5; Serial No. 433,244; published Sept. 10, 1940. Class 46.
Bitwell Furs, Inc., New York, N. Y. Fur skins. 395,017; May 5. Class 1.
Boglé, R. H., Company, The, Alexandria, Va. Moth destroyer preparation. 394,986; May 5; Serial No. 449,664; published Feb. 17, 1942. Class 6.
Bon Marche, The. (See Allied Stores Corporation.)
Botany Worsted Mills, Passaic, N. J. Neckties. 394,961; May 5; Serial No. 449,313; published Feb. 24, 1942. Class 39.
Bourjois, Inc., New York, N. Y. Ornamental sacheted lingerie cases or envelopes. 394,950; May 5; Serial No. 449,119; published Feb. 24, 1942. Class 40.
Bradley, Milton, Company, Springfield, Mass. Paper cut-outs for making composite pictures. 395,022; May 5. Class 22.
British Ropes Limited, Doncaster, England. Ropes made from manila, hemp, jute, sisal, cotton, etc. 394,901; May 5; Serial No. 446,384; published Feb. 24, 1942. Class 7.
Brooke, Norman E., Washington, D. C. Hand rakes. 394,917; May 5; Serial No. 447,793; published Feb. 17, 1942. Class 23.
Brush Development Company, The, Cleveland, Ohio. Direct recording oscillograph units, vibration pickups, headphones, etc. 395,000; May 5; Serial No. 439,800; published Dec. 30, 1941. Class 26.
Burden, Margaret C., doing business as Mrs. M. Burden and Grandma's Spanish Pepper Co., Berkeley, Calif. Food seasoning containing ground chile peppers, garlic, etc. 394,876; May 5; Serial No. 434,432; published Feb. 24, 1942. Class 46.
Calcium Sulphide Corporation, Damascus, Va. Calcium hydrosulfide. 394,990; May 5; Serial No. 449,760; published Feb. 17, 1942. Class 6.
Campana Corporation, Batavia, Ill. Toilet preparations. 394,880; May 5; Serial No. 439,748; published Feb. 17, 1942. Class 6.

Casco Products Corporation, doing business as Perfection Motor Products Company, Bridgeport, Conn. Dirigible electric light. 394,921; May 5; Serial No. 448,072; published Feb. 17, 1942. Class 21.
Casco Products Corporation, Bridgeport, Conn. Hand held electric motor device for drilling, grinding, etc. 394,930; May 5; Serial No. 448,668; published Feb. 17, 1942. Class 21.
Cerf, Baruch, Milwaukee, Wis., and Chicago, Ill., assignor, by mesne assignments, to I. Epstein & Sons, Inc., Newark, N. J. Food products. 159,324; renewed Sept. 26, 1942.
Chance, A. B., Company, Centralia, Mo. Marble games. 394,904; May 5; Serial No. 446,828; published Feb. 24, 1942. Class 22.
Chemade Company, The. (See Wilcox, Clifford F.)
Clapper, Anne T., assignor to Nettie Geary, Pittsburgh, Pa. Toilet creams, astringent lotions, skin-cleansing lotion, etc. 154,245; renewed Apr. 11, 1942.
Clensel Products, Incorporated. (See Paterson, John, & Co., Ltd.)
Cohn & Rosenberger, Inc., New York, N. Y. Necklaces and bracelets, finger rings, earrings, etc. 394,945; May 5; Serial No. 449,091; published Feb. 24, 1942. Class 28.
Columbian Rope Company, Auburn, N. Y. Resin-impregnated needled felted vegetable fiber material. 394,934; May 5; Serial No. 448,754; published Feb. 24, 1942. Class 50.
Consolidated Paper Corporation Limited. (See Wayagamack Pulp & Paper Co., Limited, assignor.)
Coty, Inc., New York, N. Y. Face powder, dusting powder, toilet water, perfume, suntan oil, etc. 394,976–7; May 5; Serial Nos. 449,543–4; published Feb. 17, 1942. Class 6.
Coty, Inc., New York, N. Y. Face powder, dusting powder, toilet water, perfume, suntan oil, etc. 394,991; May 5; Serial No. 449,766; published Feb. 17, 1942. Class 6.
Curtiss Candy Company, The, Chicago, Ill. Candy. 394,940; May 5; Serial No. 448,936; published Feb. 24, 1942. Class 46.
Dampney Company of America, Boston, Mass. Protective paint coatings. 158,645; renewed Sept. 12, 1942.
Deisel-Wemmer-Gilbert, The. (See Schwartz, Bernard, & Sons, assignors.)
De Kuyper, John, & Son, Inc., New York, N. Y. Liqueur. 394,974; May 5; Serial No. 449,517; published Feb. 24, 1942. Class 49.
De Marsay, Inc., New York, N. Y. Beauty creams, cold creams, refreshing creams, etc. 394,887; May 5; Serial No. 443,839; published Feb. 17, 1942. Class 6.
Dernburg Fur Company, Inc., Chicago, Ill. Compounds used in the treatment of furs. 394,888; May 5; Serial No. 443,925; published Feb. 17, 1942. Class 6.
Detail Products Company, St. Louis, Mo. Emulsion of mineral oil with thiamin chloride. 394,984; May 5; Serial No. 449,642; published Feb. 17, 1942. Class 6.
Detective Comics, Inc., New York, N. Y. Magazine publication. 394,922; May 5; Serial No. 448,076; published Feb. 24, 1942. Class 38.
Detective Comics, Inc., New York, N. Y. Magazine publication. 394,923; May 5; Serial No. 448,096; published Feb. 24, 1942. Class 38.
Devine, Patrick E., doing business as Devine's Remedies, Chicago, Ill. Ointment. 395,003; May 5. Class 6.
Dilley, Thomas E., doing business as The Anvelo Company, Fort Wayne, Ind. Preparation used in washing the hair. 153,698; renewed Mar. 28, 1942.
Doall Co., Inc., The, Des Plaines, Ill. Files, file segments, file bands, saws, and saw bands. 394,883; May 5; Serial No. 443,157; published Feb. 17, 1942. Class 23.
Dome Chemicals, Inc., New York, N. Y. Medicines and pharmaceutical preparations. 395,010–11; May 5. Class 6.
Drumlin, Inc., New York, N. Y. Herbal compound for use in the care of the scalp and hair. 394,971; May 5; Serial No. 449,411; published Feb. 17, 1942. Class 6.
Duro-Test Corporation, North Bergen, N. J. Incandescent and fluorescent lamps. 394,981; May 5; Serial No. 449,569; published Feb. 24, 1942. Class 21.
Electro Manufacturing Company, Chicago, Ill. Fluorescent lamps and lighting fixtures and apparatus therefor. 394,987; May 5; Serial No. 449,673; published Feb. 24, 1942. Class 21.
Emery Industries, Inc., Cincinnati, Ohio. Fat splitting reagents and saponifiers. 394,884; May 5; Serial No. 443,489; published Feb. 17, 1942. Class 6.
Emery Industries, Inc., Cincinnati, Ohio. Fat splitting reagents and saponifiers. 394,885; May 5; Serial No. 443,492; published Feb. 17, 1942. Class 6.
Epstein, I., & Sons, Inc. (See Cerf, Baruch, assignor.)
Filene's, Wm., Sons Company, Boston, Mass. Leather boots and shoes. 158,950; renewed Sept. 19, 1942. Class 39.
First Caramel Malting Corporation, Paterson, N. J. Malt in solid condition. 394,946–8; May 5; Serial Nos. 449,095–7; published Feb. 24, 1942. Class 46.
Fisher Scientific Company, Pittsburgh, Pa. Combined metal supporting ring and heat dissipating gauze employed to support glassware over burners. 395,012; May 5. Class 34.
Fitzgerald, John R., doing business as Tripak Machinery Service, Harlingen, Tex. Garment shaping and stretching machines, skirt spreaders and garment measuring and shaper-drier apparatus. 394,873; May 5; Serial No. 427,578; published Feb. 24, 1942. Class 50.
Florentine Products Co. (See Rainone, Michael.)
Forest City Products, Inc., Cleveland, Ohio. Vitamin tablets. 394,953–4; May 5; Serial Nos. 449,227–8; published Feb. 17, 1942. Class 6.
Fox River Paper Company, assignor to Fox River Paper Corporation, Appleton, Wis. Writing paper and ledger. 159,353; renewed Sept. 26, 1942.
Fruechtenicht, Henry, Louisville, Ky. Horse feed, cattle and dairy feed, poultry feed, etc. 159,355; renewed Sept. 26, 1942.
Gaines, Max C., New York, N. Y. Magazine. 394,955; May 5; Serial No. 449,229; published Feb. 24, 1942. Class 38.
Gamble Stores Incorporated, Minneapolis, Minn. Circulating oil, wood, coal, and gas heaters. 394,927; May 5; Serial No. 448,473; published Feb. 24, 1942. Class 34.
Geary, Nettie. (See Clapper, Anne T., assignor.)
General Dyestuff Corporation. (See Grasselli Chemical Company, The, assignor.)
General Grocery Co., Phoenix, Ariz. Canned fruits and vegetables. 394,951; May 5; Serial No. 449,132; published Feb. 24, 1942. Class 46.
General Mills, Inc. (See Oklahoma City Mill & Elevator Co., assignor.)
General Motors Corporation, Detroit, Mich. Electrical apparatus—namely, magnet cores, relay cores. 394,896; May 5; Serial No. 445,893; published Feb. 24, 1942. Class 21.
Godchaux Sugars, Inc., New Orleans, La. Plastic molding compounds in powdered form. 394,924; May 5; Serial No. 448,135; published Feb. 24, 1942. Class 1.
Grandma's Spanish Pepper Co. (See Burden, Margaret C.)
Grasselli Chemical Company, The, Cleveland, Ohio, assignor, by mesne assignments, to General Dyestuff Corporation, New York, N. Y. Dyes and dyestuffs. 153,732–3; renewed Mar. 28, 1942.
Handfield, Frank, Montreal, Quebec, Canada. Blank correspondence cards. 395,023; May 5. Class 37.
Hart, Schaffner & Marx, Chicago, Ill. Blank forms—namely, gift certificates. 394,898; May 5; Serial No. 445,939; published Feb. 24, 1942. Class 37.
Harvey, G. F., Company, The, Saratoga Springs, N. Y. Pharmaceutical preparation—namely, vitamin capsules. 394,893; May 5; Serial No. 445,288; published Feb. 17, 1942. Class 6.
Hecht, George J., New York, N. Y. Strings of beads. 394,899; May 5; Serial No. 445,942; published Feb. 24, 1942. Class 28.
Hecht, George J., New York, N. Y. Strings of beads. 394,902; May 5; Serial No. 446,570; published Feb. 24, 1942. Class 28.
Hewitt Soap Company. (See Remmers Soap Company, assignor.)
Hollins, William, & Company, Limited, London and Mansfield, England, to William Hollins & Company, Limited, Nottingham, England. Cloths of wool. 157,102; renewed July 25, 1942.
Horowitz & Son, Inc., New York, N. Y. Watches. 394,975; May 5; Serial No. 449,520; published Feb. 24, 1942. Class 27.
Hubbard and Company, Emeryville, Calif. Pole line hardware—namely, upsweep street hood brackets, telephone pole top brackets, etc. 394,874; May 5; Serial No. 432,189; published Feb. 24, 1942. Class 13.
Independent Lock & Key Manufacturing Co. Inc., Leominster, by change of name to Independent Lock Company, Fitchburg, Mass. Locks and keys. 159,382; renewed Sept. 25, 1942.
International Braid Company, Providence, R. I. Shoe lacings, corset lacings, galloons, etc. 157,689; renewed Aug. 15, 1942.
International Harvester Company. (See Wisconsin Steel Company, assignor.)
International Shoe Co., St. Louis, Mo. Shoes. 157,113; renewed July 25, 1942.
Irwin, Robert W., Company, Grand Rapids, Mich. Cigar and cigarette boxes, trays and stands. 394,908; May 5; Serial No. 447,513; published Feb. 24, 1942. Class 8.
Irwin, Robert W., Company, Grand Rapids, Mich. Electric lamps—namely, floor and table lamps. 394,909; May 5, 1942; Serial No. 447,515; published Feb. 24, 1942. Class 21.
Irwin, Robert W., Company, Grand Rapids, Mich. Ceramic breakfast, luncheon, and dinner dishes. 394,910; May 5; Serial No. 447,516; published Feb. 24, 1942. Class 30.
Irwin, Robert W., Company, Grand Rapids, Mich. Bedroom furniture. 394,911; May 5; Serial No. 447,517; published Feb. 24, 1942. Class 32.
Irwin, Robert W., Company, Grand Rapids, Mich. Table, bar, and cooking glassware. 394,912; May 5; Serial No. 447,518; published Feb. 24, 1942. Class 33.
Irwin, Robert W., Company, Grand Rapids, Mich. Wall pictures, paintings, and prints. 394,913; May 5; Serial No. 447,519; published Feb. 24, 1942. Class 38.
Irwin, Robert W., Company, Grand Rapids, Mich. Closet accessories. 394,914; May 5; Serial No. 447,521; published Feb. 24, 1942. Class 50.

Ives, H. B., Company, The, New Haven, Conn. Door latches. 395,025; May 5.

Jensen Radio Manufacturing Company, Chicago, Ill. Loud speakers. 394,906–8; May 5; Serial Nos. 446,877–8; published Feb. 17, 1942. Class 21.

Johnson, Fredric H., doing business as Spice Islands Company, San Francisco, Calif. Red wine vinegar. 395,020; May 5. Class 46.

Johnson, Frieda L., doing business as Johnson Products Company, New York, N. Y. All purpose fabric mender. 394,925; May 5; Serial No. 448,193; published Feb. 17, 1942. Class 6.

Julian & Kokenge Co., Cincinnati, to The Julian & Kokenge Co., Columbus, Ohio. Shoes. 157,696; renewed Aug. 15, 1942.

Kearney & Trecker Corporation, West Allis, Wis. Machine tools, milling machines, parts thereof and accessories therefor. 394,972; May 5; Serial No. 449,422; published Feb. 17, 1942. Class 23.

Keystone Varnish Company, Brooklyn, N. Y. Enamel paints and varnish. 159,004; renewed Sept. 19, 1942.

Kimberly-Clark Corporation, Neenah, Wis. Book paper. 394,978; May 5; Serial No. 449,551; published Feb. 24, 1942. Class 37.

King, Bruce, doing business as Zolar, New York, N. Y. Publications—namely, horoscopes, astrological predictions, etc. 394,894; May 5; Serial No. 445,606; published Feb. 24, 1942. Class 38.

Klein, C. Emil, Co. (See Moss & Lowenhaupt Cigar Co., assignor.)

Knox Company, The, Los Angeles, Calif. Preparations used in and for the treatment and to relieve the irritations and pain of bunions, burns, etc. 394,958; May 5; Serial No. 449,281; published Feb. 17, 1942. Class 6.

Krueger, Elmer R., doing business as Paper Art Products, Indianapolis, Ind. Paper napkins, paper mats, and paper table covers. 395,029; May 5. Class 37.

Krueger, G., Brewing Company. (See United States Brewing Company, assignor.)

Lang, Edward C., Buffalo, N. Y. Candy. 395,031; May 5. Class 46.

Lentheric, Incorporated, New York, N. Y. Perfumes, toilet waters and cosmetic creams. 394,967; May 5; Serial No. 449,379; published Feb. 17, 1942. Class 6.

Longines-Wittnauer Watch Co. Inc., New York, N. Y. Watches and clocks. 394,872; May 5; Serial No. 425,798; published Feb. 24, 1942. Class 27.

Luft, George W., Company, Inc., The, Long Island City, N. Y. Lipstick, perfume, rouge, and face powder. 394,963; May 5; Serial No. 449,349; published Feb. 17, 1942. Class 6.

Lyons Band Instrument Company, Chicago, Ill. Band and orchestra musical instruments. 394,889; May 5; Serial No. 444,348; published Feb. 24, 1942. Class 36.

Magnolia Metal Company, New York, N. Y., to Magnolia Metal Company, Elizabeth, N. J. Babbitt, bearing, and antifriction metals and alloys. 159,429; renewed Sept. 26, 1942.

Manton Publishing Company, Inc., New York, N. Y. Periodical. 395,006; May 5. Class 38.

Marshall Field. (See Newspaper PM, Inc., assignor.)

Mas de Roda y Bernal, David, Barcelona, Spain. Perfumery. 394,890; May 5; Serial No. 444,488; published Feb. 17, 1942. Class 6.

McKesson & Robbins, Inc., New York, N. Y. Capsules or liquid containing a plurality of vitamins A, B_1, B_2, C, D, B_6, etc. 394,973; May 5; Serial No. 449,461; published Feb. 17, 1942. Class 6.

Metallurgical Products Co. (See Wilenchik, Israel W.)

Miller, I., & Sons, Inc., Long Island City, N. Y. Ladies' shoes. 394,936; May 5; Serial No. 448,834; published Feb. 24, 1942. Class 39.

Milligan, G. D., Grocer Company, Springfield, Mo. Canned fruits and vegetables. 156,352; renewed June 20, 1942.

Moss & Lowenhaupt Cigar Co., St. Louis, Mo., assignor to D. Emil Klein Co., Inc., New York, N. Y. Cigars, cheroots, cigarettes, etc. 155,491; renewed May 30, 1942.

Muckland Celery Company, Sarasota, Fla. Celery. 394,939; May 5; Serial No. 448,918; published Feb. 24, 1942. Class 46.

Mulligan, Walter J., doing business as W. J. Mulligan & Co., San Francisco, Calif. Vermouth. 395,016; May 5. Class 47.

Myers, Philip R., New York, N. Y. Cigars, cigarettes, and smoking and chewing tobacco. 394,983; May 5. Serial No. 449,623; published Feb. 24, 1942. Class 17.

Nash Coffee Company, to Nash-Finch Company, Minneapolis, Minn., successor. Coffee. 159,451; renewed Sept. 26, 1942.

National Fruit Preserves, Inc., Jacksonville, Fla. Fruit products. 394,879; May 5; Serial No. 439,236; published Feb. 24, 1942. Class 46.

National Herb Medicine Company of Missouri, St. Louis, Mo. Female tonic. 153,805; renewed Mar. 28, 1942.

Nestle-Lemur Co., New York, N. Y. Hair dyes. 395,001; May 5. Class 6.

Newspaper PM, Inc., The, Brooklyn, assignor to Marshall Field, Lloyds Neck, N. Y. Daily newspaper. 394,928; May 5; Serial No. 448,576; published Feb. 24, 1942. Class 38.

Newton Line Company, Inc., Homer, N. Y. Fish lines. 394,892; May 5; Serial No. 445,240; published Feb. 24, 1942. Class 22.

Norwich Pharmacal Company, The, Norwich, N. Y. Liniment. 155,787; renewed June 6, 1942.

Norwich Pharmacal Company, Norwich, N. Y. Publication. 157,726; renewed Aug. 15, 1942.

Oklahoma City Mill & Elevator Co., Oklahoma, Okla., assignor to General Mills, Inc., Minneapolis, Minn. Wheat flour. 158,763; renewed Sept. 12, 1942.

Olsen, Tinius, Testing Machine Co., Philadelphia, Pa. Impact testers. 394,952; May 5; Serial No. 449,219; published Feb. 24, 1942. Class 26.

O'Neil, Albert T., doing business as O'Neil-Irwin Manufacturing Co., Minneapolis, Minn. Metal brakes, wire benders, and metal shears. 394,932; May 5; Serial No. 448,704; published Feb. 17, 1942. Class 23.

Ortho Products Inc., Linden, N. J. Applicators. 394,998; May 5; Serial No. 450,111; published Feb. 24, 1942. Class 44.

Overton, S. E., Company, South Haven, Mich. Cork trays. 395,004; May 5. Class 2.

Pangburn Company, Inc., Fort Worth, Tex. Candy. 394,988; May 5; Serial No. 449,696; published Feb. 24, 1942. Class 46.

Paper Art Products. (See Krueger, Elmer R.)

Paramount Knitting Company, Chicago, assignor to Bear Brand Hosiery Co., Kankakee and Chicago, Ill. Hosiery. 154,652; renewed Apr. 18, 1942.

Parfums Schiaparelli, Inc., New York, N. Y. Perfumes and toilet waters. 394,968; May 5; Serial No. 449,384; published Feb. 17, 1942. Class 6.

Paterson, John, & Co., Ltd., Glasgow, Scotland, assignor to Clensel Products, Incorporated, Wilmington, Del. Liquid compound for toilet use. 150,045; renewed Dec. 27, 1941.

Paterson, John, & Co., Ltd., Glasgow, Scotland, assignor to Clensel Products, Incorporated, Wilmington, Del. Insecticides. 150,046; renewed Dec. 27, 1941.

Pawling Refining Corp., Port Chester, N. Y. Degumming, desludging, motor cleaning preparation. 394,931; May 5; Serial No. 448,680; published Feb. 17, 1942. Class 6.

Peacock Laboratories, Inc., Philadelphia, Pa. Machine for spraying liquids in the preparation of mirrors. 394,969; May 5; Serial No. 449,393; published Feb. 17, 1942. Class 23.

Penney, J. C., Company, Salt Lake City, Utah, and New York, N. Y., assignor to J. C. Penney Company, New York, N. Y. Cotton piece goods. 156,388; renewed June 20, 1942.

Penney, J. C., Company, Salt Lake City, Utah, and New York, N. Y., assignor to J. C. Penney Company, New York, N. Y. Men's work shirts, boys' work shirts, boys' blouses, etc. 156,909; renewed July 18, 1942.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Young men's and boys' clothing—namely, hats, shoes, belts, suspenders, etc. 394,937; May 5; Serial No. 448,837; published Feb. 24, 1942. Class 39.

Perfection Motor Products Company. (See Casco Products Corporation.)

Perry, J. C., & Company, Inc., Indianapolis, Ind. Canned fruits, vegetables, scale and shell fish, etc. 157,172; renewed July 25, 1942.

Philadelphia Magnesia Co., Philadelphia, Pa. Mineral oil used in the treatment of constipation. 394,878; May 5; Serial No. 439,174; published Feb. 17, 1942. Class 6.

Phillips, Ed., & Sons Company, Minneapolis, Minn. Whiskey. 394,941; May 5; Serial No. 448,985; published Feb. 24, 1942. Class 49.

Phillips Petroleum Company, Bartlesville, Okla. Oil dressing for hair. 394,982; May 5; Serial No. 449,585; published Feb. 17, 1942. Class 6.

Pindus Chemical Co. (See Voss, Peter.)

Pinex Co., The, Fort Wayne, Ind. Cough balsam. 394,959; May 5; Serial No. 449,293; published Feb. 17, 1942. Class 6.

Pioneer Manufacturing Company, The, Cleveland, Ohio. Chemical for melting ice. 395,030; May 5. Class 6.

Pirrone, F., & Sons, Garfield, N. J. Wines. 394,995; May 5; Serial No. 450,022; published Feb. 24, 1942. Class 47.

Plough, Inc. (See Strecker, Dr. J. E., assignor.)

Poldi Steel Corporation of America. (See Poldina Hut, továrna na kelimkovou ocel (Crucible Steel Works), assignor.)

Poldihutte Tiegelgusstahlfabrik. (See Poldina Hut, továrna na kelimkovou ocel (Crucible Steel Works).)

Poldina Hut, továrna na kelimkovou ocel (Crucible Steel Works), doing business as Poldihutte Tiegelgusstahlfabric, assignor to the firm Poldi Steel Corporation of America, Prague and Kladno, Czechoslovakia, assignor, by mesne assignments, to Poldihutte Aktiengesellschaft, Prague, Czechoslovakia. Steel in blocks and in bars and forgings. 158,707; renewed Sept. 12, 1942.

Pond's Extract Company, New York, N. Y. Liquefying cream. 394,949; May 5; Serial No. 449,102; published Feb. 17, 1942. Class 6.

Provost, Girdner, doing business as Girdner Provost Co., New York, N. Y. Dolls and pre-formed parts to be assembled into finished dolls. 394,900; May 5; Serial No. 446,335; published Feb. 24, 1942. Class 22.

RCA Manufacturing Company, Inc., Camden, N. J. Electrically operated laundry washing machines and ironers, parts thereof, etc. 394,994; May 5; Serial No. 449,806; published Feb. 24, 1942. Class 24.

Rainone, Michael, doing business as Florentine Products Co., Brooklyn, N. Y. Scalp cream. 395,026; May 5. Class 6.

Rand McNally & Company, Chicago, Ill. Blank forms—namely, account cards. 394,897; May 5; Serial No. 445,900; published Feb. 24, 1942. Class 37.

Rauschenberger, John, Company, Milwaukee, Wis. Cordage. 158,782; renewed Sept. 12, 1942.

Raygram Corporation, New York, N. Y. Photographic chemicals. 394,915; May 5; Serial No. 447,669; published Feb. 17, 1942. Class 6.

Raygram Corporation, New York, N. Y. Photographic developers and fixer hardeners. 394,916; May 5; Serial No. 447,671; published Feb. 17, 1942. Class 6.

Reading Batteries Inc., Temple, Pa. Storage batteries. 394,882; May 5; Serial No. 441,923; published Feb. 24, 1942. Class 21.

Remington Rand Inc., Buffalo, N. Y. Paper fasteners. 395,013–14; May 5. Class 37.

Remmers Soap Company, The, Cincinnati, assignor, by mesne assignments, to The Hewitt Soap Company, Inc., Dayton, Ohio. Soap. 159,494; renewed Sept. 26, 1942.

Revlon Products Corporation, New York, N. Y. Enamel for coating finger nails, and lipsticks. 394,996–7; May 5; Serial Nos. 450,025–6; published Feb. 17, 1941. Class 6.

Riverside & Dan River Cotton Mills, Inc., Danville, Va., to Riverside & Dan River Cotton Mills, Inc., Danville, Va., and New York, N. Y. Chambray and cheviots in the piece. 156,405; renewed June 20, 1942.

Robert, Joseph, to Societe Anonyme des Laboratoires Robert et Carriere, Paris, France, successor. Medicinal preparations. 131,596; renewed May 18, 1940.

Roddenbery Bros., Cairo, Ga. Cane sirup. 154,805; renewed May 9, 1942.

Rolex, Montres, S. A. (Rolex Uhren A. G.) (Rolex Watch Co. Ltd.), Geneva, Switzerland. Watches and parts thereof. 394,881; May 5; Serial No. 440,945; published Feb. 24, 1942. Class 27.

Rubinstein, Helena, Inc., New York, N. Y. Face creams. 394,864; May 5; Serial No. 449,356; published Feb. 17, 1942. Class 6.

Safety Legion of America, The, Berne, Ind. Magazines and circulars. 394,895; May 5; Serial No. 445,750; published Feb. 24, 1942. Class 38.

Sal-T-Rub Company, Minneapolis, Minn. Rubbing mixture for mechanical stimulation of the skin. 394,903; May 5; Serial No. 446,636; published Feb. 17, 1942. Class 6.

Sandvikens Jernverks Aktiebolag, Sandviken, Sweden. Iron and steel bars, bands, and wire. 153,845; renewed Mar. 28, 1942.

San Francisco Sulphur Co., San Francisco, Calif. Sulphur. 155,818; renewed June 6, 1942.

Scanlan, Thomas P., Chicago, Ill. Title for a magazine section. 395,018; May 5. Class 38.

Schur-Fit Foot Appliances, New York, N. Y. Arch supports. 395,027; May 5. Class 44.

Schwartz, Bernard, & Sons, assignor to The Diesel-Wemmer-Gilbert Corporation, Detroit, Mich. Cigars. 153,851; renewed Mar. 28, 1942.

Seminole Flavor Company, Chattanooga, Tenn. Carbonated, non-alcoholic, non-cereal, maltless beverages. 395,009; May 5. Class 45.

Sequoia Citrus Association, Lemon Grove, Calif. Fresh citrus fruits. 394,956; May 5; Serial No. 449,240; published Feb. 24, 1942. Class 46.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Preparations for correction of metabolic deficiencies. 394,965; May 5; Serial No. 449,358; published Feb. 17, 1942. Class 6.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Pharmaceutical preparations for use as pressor agents, vasoconstrictors, broncho-dilators, etc. 394,966; May 5; Serial No. 449,360; published Feb. 17, 1942. Class 6.

Smith, A. O., Corporation, Milwaukee, Wis. Electric and gas water heaters. 394,992–3; May 5; Serial Nos. 449,784–5; published Feb. 24, 1942. Class 34.

Smith, Arthur E., Los Angeles, Calif. Anesthetizing and nerve blocking preparations. 394,918; May 5; Serial No. 447,829; published Feb. 17, 1942. Class 6.

Smith, Arthur E., Los Angeles, Calif. Hypodermic syringes, hypodermic needles, anaesthesia instruments, etc. 395,015; May 5. Class 44.

Smith & Nelson, Inc., Tonasket, Wash. Fresh apples. 394,907; May 5; Serial No. 447,256; published Feb. 24, 1942. Class 46.

Societe Anonyme des Laboratoires Robert et Carriere. (See Robert, Joseph.)

Southwestern Milling Company, Inc., The, New York, N. Y. and Kansas City, Mo., assignor to Standard Milling Company, New York, N. Y. Wheat flour. 159,531; renewed Sept. 26, 1942.

Spice Islands Company. (See Johnson, Fredric H.)

Spink, Charles C., & Son. (See Sporting News Publishing Company, The.)

Sporting News Publishing Company, The, doing business as Charles C. Spink & Son, St. Louis, Mo. Newspaper column. 394,938; May 5; Serial No. 448,879; published Feb. 17, 1942. Class 38.

Stanco Incorporated, Wilmington, Del., and New York, N. Y. White oils, pharmaceutical and medicinal products, and petroleum ether. 394,957; May 5; Serial No. 449,241; published Feb. 17, 1942. Class 6.

Standard Brands Incorporated, New York, N. Y. Food flavoring composition containing vegetable extracts and vegetable protein derivative material. 394,999; May 5; Serial No. 450,187; published Feb. 24, 1942. Class 46.

Standard Milling Company. (See Southwestern Milling Company, Inc., The.)

Stearns & Foster Company, Lockland, Ohio. Cotton batting. 156,432; renewed June 20, 1942.

Stearns & Foster Company, The, Lockland, Ohio. Mattresses. 159,115; renewed Sept. 19, 1942.

Stearns & Foster Company, The, Lockland, Ohio. Mattresses. 159,117–19; renewed Sept. 19, 1942.

Sterling Brewers, Inc., Evansville, Ind. Beer. 394,929; May 5; Serial No. 448,626; published Feb. 17, 1942. Class 48.

Strecker, Dr. J. E., Chattanooga, assignor to Plough, Inc., Memphis, Tenn. Preparations for certain named purposes. 155,845; renewed June 6, 1942.

Taylor, W. A., & Co., Inc., New York, N. Y. Wines. 394,935; May 5; Serial No. 448,808; published Feb. 24, 1942. Class 47.

Tetziaff, Ben. A., Chicago, to Benjamin A. Tetziaff, Riverside, Ill. Hose clamps. 153,878; renewed Mar. 28, 1942.

Texas Gulf Sulphur Company, New York, N. Y. Sulphur and sulphur inoculated with bacteria. 158,113; renewed Aug. 22, 1942.

Texas Gulf Sulphur Company, New York, N. Y. Sulphur and sulphur inoculated with bacteria. 158,834; renewed Sept. 12, 1942.

Texas Star Flour Mills, Galveston, Tex. Wheat flour. 395,024; May 5. Class 46.

Ton Tex Corporation, Grand Rapids, Mich. Cross-sectionally V-shaped, flat and round transmission, elevating, and conveying belting. 394,960; May 5; Serial No. 449,306; published Feb. 24, 1942. Class 35.

Tribune Company, Chicago, Ill. Newspaper column. 394,942; May 5; Serial No. 448,991; published Feb. 17, 1942. Class 38.

Tripak Machinery Service. (See Fitzgerald, John R.)

United States Brewing Company, assignor to G. Krueger Brewing Company, Newark, N. J. Beer and near beer. 159,561; renewed Sept. 26, 1942.

Vauxhall Motors, Limited, Luton, England. Automobiles and motor cycles. 157,400; renewed Aug. 1, 1942.

Victor Adding Machine Co., Chicago, Ill. Adding and calculating machines. 394,919; May 5; Serial No. 447,853; published Feb. 24, 1942. Class 26.

Virginia Breeder, Inc., The, Warrenton, Va. Magazine. 395,021; May 5. Class 38.

Voss, Peter, doing business as Pindus Chemical Co., Washington, D. C. Laxatives, skin and rectal ointments, and healing salves. 394,886; May 5; Serial No. 443,589; published Feb. 17, 1942. Class 6.

Wallerstein Company, Inc., New York, N. Y. Mixture of enzymes for analytical and industrial purpose. 394,989; May 5; Serial No. 449,708; published Feb. 17, 1942. Class 6.

Ward Baking Company, New York, N. Y. Bread. 159,577–8; renewed Sept. 26, 1942.

Warner, William R., & Co., Inc., New York, N. Y. Calcium diphosphate preparation containing vitamins. 394,944; May 5; Serial No. 448,993; published Feb. 17, 1942. Class 6.

Warner, William R., & Co., Inc., New York, N. Y. Medicinal preparation for use in the treatment of constipation. 394,985; May 5; Serial No. 449,656; published Feb. 17, 1942. Class 6.

Waterbury Tack Company, Shelton, Conn. Thumb tacks. 395,005; May 5. Class 37.

Wayagamack Pulp & Paper Co., Limited, Three Rivers, Quebec, Canada, assignor to Consolidated Paper Corporation Limited, Montreal, Canada. Wood pulp, chemical pulp, sulphate and sulphite pulp, etc. 156,077; renewed June 13, 1942.

Webb Publishing Company, The, St. Paul, Minn. Periodicals. 159,149; renewed Sept. 19, 1942.

Western Union Telegraph Company, The, New York, N. Y. Telegraph facsimile transmitting and recording apparatus. 394,979; May 5; Serial No. 449,562; published Feb. 17, 1942. Class 21.

Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric regulators for regulating the excitation of dynamoelectric machines. 394,926; May 5; Serial No. 448,213; published Feb. 24, 1942. Class 21.

Weston International Corp., New York, N. Y. Theatrical and utility flashlights. 395,019; May 5. Class 21.

Wilcox, Clifford F., doing business as The Chemade Company, Los Angeles, Calif. Diuretic antacid alkaline compound. 394,944; May 5; Serial No. 449,088; published Feb. 17, 1942. Class 6.

Wilenchik, Israel W., doing business as Metallurgical Products Co., Philadelphia, Pa. Deoxidising, degasifying, and desulphurising agents. 394,920; May 5; Serial No. 448,068; published Feb. 17, 1942. Class 6.
Williams, R. C., & Company, Inc., New York, N. Y. Canned fruits and vegetables, crushed fruit, diced peels, etc. 394,877; May 5; Serial No. 437,746; published Feb. 24, 1942. Class 46.
Windsor Tobacco Company. (See Bahls, Harry E.)
Wisconsin Steel Company, assignor to International Harvester Company, Chicago, Ill. Coal. 155,872; renewed June 6, 1942.
Worcester Brush and Scraper Company, Worcester, Mass. Boiler-tube cleaners. 153,080; renewed Mar. 7, 1942.
Zolar. (See King, Bruce.)

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Wisconsin Steel Company. 155,872; renewed June 6, 1942.
Cotton batting. Stearns & Foster Company. 156,432; renewed June 20, 1942.
Fur skins. Bitwell Furs, Inc. 395,017; May 5.
Plastic molding compounds in powdered form. Godchaux Sugars, Inc. 394,924; May 5; Serial No. 448,135; published Feb. 24, 1942.
Pulp, Wood, chemical, sulphate and sulphite. Wayagamack Pulp & Paper Co. 156,077; renewed June 13, 1942.

CLASS 2

Trays, Cork. S. E. Overton Company. 395,004; May 5.

CLASS 3

Handbags, Ladies'. Belt Modes, Inc. 394,962; May 5; Serial No. 449,336; published Feb. 24, 1942.

CLASS 4

Compound for toilet use, Liquid. John Paterson & Co. 150,045; renewed Dec. 27, 1941.
Soap. Remmers Soap Company. 159,494; renewed Sept. 26, 1942.

CLASS 6

Alkaline compound, Diuretic antacid. C. F. Wilcox. 394,944; May 5; Serial No. 449,088; published Feb. 17, 1942.
Anesthetizing and nerve blocking preparations. A. E. Smith. 394,918; May 5; Serial No. 447,829; published Feb. 17, 1942.
Beauty creams, cold creams, refreshing creams, etc. De Marsay, Inc. 394,887; May 5; Serial No. 443,839; published Feb. 17, 1942
Calcium diphosphate preparation containing vitamins. William R. Warner & Co. 394,944; May 5; Serial No. 448,993; published Feb. 17, 1942.
Calcium hydrosulfide. Calcium Sulphide Corporation. 394,990; May 5; Serial No. 449,760; published Feb. 17, 1942.
Capsules or liquid containing a plurality of vitamins A, B_1, B_2, C, D, B_6, etc. McKesson & Robbins, Inc. 394,973; May 5; Serial No. 449,461; published Feb. 17, 1942.
Chemical for melting ice. Pioneer Manufacturing Company. 395,030; May 5.
Cleaning preparation, Degumming, desludging, motor. Pawling Refining Corp. 394,931; May 5; Serial No. 448,680; published Feb. 17, 1942.
Compounds used in the treatment of furs. Dernburg Fur Company. 394,888; May 5; Serial No. 443,925; published Feb. 17, 1942.
Cough balsam. Pinex Co. 394,959; May 5; Serial No. 449,293; published Feb. 17, 1942.
Cream, Liquefying. Pond's Extract Company. 394,949; May 5; Serial No. 449,102; published Feb. 17, 1942.
Cream, Scalp. M. Rainone. 395,026; May 5.
Creams, astringent lotions, skin-cleansing lotion, etc., Toilet. A. T. Clapper. 154,245; renewed Apr. 11, 1942.
Creams, Face. Helena Rubinstein, Inc. 394,964; May 5; Serial No. 449,356; published Feb 17, 1942.
Enamel for coating finger nails, and lipsticks. Revlon Products Corporation. 394,996–7; May 5; Serial Nos. 450,025–6; published Feb. 17, 1942.
Enzymes for analytical and industrial purpose, Mixture of. Wallerstein Company. 394,989; May 5; Serial No. 449,708; published Feb. 17, 1942.
Deoxidising, degasifying, and desulphurising agents. I. W. Wilenchik. 394,920; May 5; Serial No. 448,068; published Feb. 17, 1942.
Dyes and dyestuffs. Grasselli Chemical Company. 153,732–3; renewed Mar. 28, 1942.
Dyes, Hair. Nestle-Lemur Co. 395,001; May 5.
Fabric mender, All purpose. F. L. Johnson. 394,925; May 5; Serial No. 448,193; published Feb. 17, 1942.
Herbal compound for use in the care of the scalp and hair. Drumlin, Inc. 394,971; May 5; Serial No. 449,411; published Feb. 17, 1942.
Insecticides. John Paterson & Co., Ltd. 150,046; renewed Dec. 27, 1941.
Laxatives, skin and rectal ointments, and healing salves. P. Voss. 394,886; May 5; Serial No. 443,589; published Feb. 17, 1942.
Liniment. Norwich Pharmacal Company. 155,787; renewed June 6, 1942.
Lipstick, perfume, rouge, and face powder. George W. Luft Company. 394,963; May 5; Serial No. 449,349; published Feb. 17, 1942.
Medicinal preparation. William R. Warner & Co. 394,985; May 5; Serial No. 449,656; published Feb. 17, 1942.
Medicinal preparations. J. Robert. 131,596; renewed May 18, 1940.
Medicines and pharmaceutical preparations. Dome Chemicals, Inc. 395,010–11; May 5.
Mineral oil used in the treatment of constipation. Philadelphia Magnesia Co 394,878; May 5; Serial No. 439,174; published Feb. 17, 1942.
Mixture for mechanical stimulation of the skin, Rubbing. Sal-T-Rub Company. 394,903; May 5; Serial No. 446,636; published Feb. 17, 1942.
Moth destroyer preparation. R. H. Bogle Company. 394,986; May 5; Serial No. 449,664; published Feb. 17, 1942.
Oil dressing for hair. Phillips Petroleum Company. 394,982; May 5; Serial No. 449,585; published Feb. 17, 1942.
Oil with thiamin chloride, Emulsion of mineral. Detail Products Company. 394,984; May 5; Serial No. 449,642; published Feb. 17, 1942.
Oils, pharmaceutical, and medicinal products, and petroleum ether, White. Stanco Incorporated. 394,957; May 5; Serial No. 449,241; published Feb. 17, 1942.
Ointment. P. E. Devine. 395,003; May 5.
Perfumery. D. Mas De Roda y Bernal. 394,890; May 5; Serial No. 444,488; published Feb. 17, 1942.
Perfumes and toilet waters. Parfums Schiaparelli, Inc. 394,968; May 5; Serial No. 449,384; published Feb. 17, 1942.
Perfumes, toilet waters and cosmetic creams. Lentheric, Incorporated. 394,967; May 5; Serial No. 449,379; published Feb. 17, 1942.
Pharmaceutical preparation—namely, vitamin capsules. G. F. Harvey Company. 394,893; May 5; Serial No. 445,288; published Feb. 17, 1942.
Pharmaceutical preparations Sharp & Dohme, Incorporated. 394,966; May 5; Serial No. 449,360; published Feb 17, 1942.
Photographic chemicals. Raygram Corporation. 394,915; May 5; Serial No. 447,669; published Feb. 17, 1942.
Photographic developers and fixer hardeners. Raygram Corporation. 394,916; May 5; Serial No. 447,671; published Feb. 17, 1942.
Powder, dusting powder, toilet water, perfume, etc., Face. Coty, Inc. 394,976–7; May 5; Serial No. 449,543–4; published Feb. 17, 1942.
Powder, dusting powder, toilet water, perfume, etc., Face. Coty, Inc. 394,991; May 5; Serial No. 449,766; published Feb. 17, 1942.
Preparation used in washing the hair. T. E. Dilley. 153,698; renewed Mar. 28, 1942.
Preparations for certain named purposes. Dr. J. E. Strecker. 155,845; renewed June 6, 1942.
Preparations for correction of metabolic deficiencies. Sharp & Dohme, Incorporated. 394,965; May 5; Serial No. 449,358; published Feb. 17, 1942.
Preparations used in and for the treatment and to relieve the irritation and pain of bunions, burns, etc. Knox Company. 394,988; May 5; Serial No. 449,281; published Feb. 17, 1942.
Reagents and saponifiers, Fat splitting. Emery Industries, Inc. 394,884; May 5; Serial No. 443,489; published Feb. 17, 1942.
Reagents and saponifiers, Fat splitting. Emery Industries, Inc. 394,885; May 5; Serial No. 443,492; published Feb. 17, 1942.
Sulphur. San Francisco Sulphur Co. 155,818; renewed June 6, 1942.
Sulphur and sulphur inoculated with bacteria. Texas Gulf Sulphur Company. 158,113; renewed Aug. 22, 1942.
Toilet preparations. Campena Corporation. 394,880; May 5; Serial No. 439,748; published Feb. 17, 1942.
Tonic, Female. National Herb Medicine Company of Missouri. 153,805; renewed Mar. 28, 1942.
Vitamin tablets. Forest City Products, Inc. 394,953–4; May 5; Serial No. 449,227–8; published Feb. 17, 1942.

CLASS 7

Cordage. John Rauschenberger Company. 158,782; renewed Sept. 12, 1942.
Ropes made from manila, hemp, jute, sisal, etc. British Ropes Limited. 394,901; May 5; Serial No. 446,384; published Feb. 24, 1942.

CLASS 8

Cigars and cigarette boxes, trays and stands. Robert W. Irwin Company. 394,908; May 5; Serial No. 447,513; published Feb. 24, 1942.

CLASS 10

Sulphur and sulphur inoculated with bacteria. Texas Gulf Sulphur Company. 158,834; renewed Sept. 12, 1942.

CLASS 13

Clamps, Hose. B. A. Tetzlaff. 153,878; renewed Mar. 28, 1942.
Hardware, Pole line. Hubbard and Company. 394,874; May 5; Serial No. 432,189; published Feb. 24, 1942.

CLASS 14

Bars and rods, Welding. Atlas Foundry Company. 159,264; renewed Sept. 26, 1942.
Bars, bands, and wire, Iron and steel. Sandvikens Jernverks Aktiebolag. 153,845; renewed Mar. 28, 1942.
Metals and alloys, Babbitt, bearing, and antifriction. Magnolia Metal Company. 159,429; renewed Sept. 26, 1942.
Steel in blocks and in bars and forgings. Poldina Hut, továrna na Kelímkovou oceal (Crucible Steel Works). 158,707; renewed Sept. 12, 1942.

CLASS 15

Gasoline. W. H. Barber Company. 158,385; renewed Sept. 5, 1942.

CLASS 16

Paints and varnish, Enamel. Keystone Varnish Company. 159,004; renewed Sept. 19, 1942.
Protective paint coatings. Dampney Company of America. 158,645; renewed Sept. 12, 1942.

CLASS 17

Cigars. Bernard Schwartz & Sons. 153,851; renewed Mar. 28, 1942.
Cigars, cheroots, cigarettes, etc. Moss & Lowenhaupt Cigar Co. 155,491; renewed May 30, 1942.
Cigars, cigarettes, and smoking and chewing tobacco. P. R. Myers. 394,983; May 5; Serial No. 449,623; published Feb. 24, 1942.
Tobacco. H. E. Bahls. 395,002; May 5.

CLASS 19

Automobiles and motor cycles. Vauxhall Motors, Limited. 157,400; renewed Aug. 1, 1942.

CLASS 21

Batteries, Storage. Reading Batteries Inc. 394,882; May 5; Serial No. 441,923; published Feb. 24, 1942.
Electric motor device for drilling, grinding, etc., Hand held. Casco Products Corporation. 394,930; May 5; Serial No. 448,668; published Feb. 17, 1942.
Electric lamps. Robert W. Irwin Company. 394,909; May 5; Serial No. 447,515; published Feb. 24, 1942.
Electric light, Dirigible. Casco Products Corporation. 394,921; May 5; Serial No. 448,072; published Feb. 17, 1942.
Electric regulators. Westinghouse Electric & Manufacturing Company. 394,926; May 5; Serial No. 448,213; published Feb. 24, 1942.
Electrical apparatus—namely, magnet cores, relay cores. General Motors Corporation. 394,896; May 5; Serial No. 445,893; published Feb. 24, 1942.
Flashlights, Theatrical and utility. Weston International Corp. 395,019; May 5.
Lamps and lighting fixtures and apparatus thereof, Fluorescent. Electro Manufacturing Company. 394,987; May 5; Serial No. 449,673; published Feb. 24, 1942.
Lamps, Incandescent and fluorescent. Duro-Test Corporation. 394,981; May 5; Serial No. 449,569; published Feb. 24, 1942.
Loud speakers. Jensen Radio Manufacturing Company. 394,905–6; May 5; Serial No. 446,877–8; published Feb. 17, 1942.
Telegraph facsimile transmitting and recording apparatus. Western Union Telegraph Company. 394,979; May 5; Serial No. 449,562; published Feb. 17, 1942.

CLASS 22

Cut-outs for making composite pictures, Paper. Milton Bradley Company. 395,022; May 5.
Dolls and pre-formed parts to be assembled into finished dolls. G. Provost. 394,900; May 5; Serial No. 446,335; published Feb. 24, 1942.
Fish lines. Newton Line Company. 394,892; May 5; Serial No. 445,240; published Feb. 24, 1942.
Fishing rod and reel. American Display Company. 153,958; renewed Apr. 4, 1942.
Marble games. A. B. Chance Company. 394,904; May 5; Serial No. 446,828; published Feb. 24, 1942.

CLASS 23

Boiler-tube cleaners. Worcester Brush and Scraper Company. 153,080; renewed Mar. 7, 1942.
Brakes, wire benders, and metal shears, Metal. A. T. O'Neil. 394,932; May 5; Serial No. 448,704; published Feb. 17, 1942.
Files, file segments, file bands, saws and saw bands. Doall Co. 394,883; May 5; Serial No. 443,157; published Feb. 17, 1942.
Machine for spraying liquids in the preparation of mirrors. Peacock Laboratories, Inc. 394,969; May 5; Serial No. 449,393; published Feb. 17, 1942.
Machinery. Baldwin Locomotive Works. 395,007; May 5.
Rakes, Hand. N. E. Brooke. 394,917; May 5; Serial No. 447,793; published Feb. 17, 1942.
Tools, milling machines, parts thereof and accessories therefor, Machine. Kearney & Trecker Corporation. 394,972; May 5; Serial No. 449,422; published Feb. 17, 1942.

CLASS 24

Laundry washing machines and ironers, parts thereof, etc., Electrically operated. RCA Manufacturing Company. 394,994; May 5; Serial No. 449,806; published Feb. 24, 1942.

CLASS 25

Latches, Door. H. B. Ives Company. 395,025; May 5.
Locks and keys. Independent Lock & Key Manufacturing Co. 159,382; renewed Sept. 26, 1942.

CLASS 26

Adding and calculating machines. Victor Adding Machine Co. 394,919; May 5; Serial No. 447,853; published Feb. 24, 1942.
Oscillograph units, vibration pickups, headphones, etc., Direct recording. Brush Development Company. 395,000; May 5; Serial No. 439,800; published Dec. 30, 1941.
Testers, Impact. Tinium Olsen Testing Machine Co. 394,952; May 5; Serial No. 449,219; published Feb. 24, 1942.

CLASS 27

Watches. Horowitz & Son, Inc. 394,975; May 5; Serial No. 449,520; published Feb. 24, 1942.
Watches and clocks. Longines-Wittnauer Watch Co. Inc. 394,872; May 5; Serial No. 425,798; published Feb. 24, 1942.
Watches and parts thereof. Montres Rolex S. A. (Rolex Uhren A. G.) (Rolex Watch Co. Ltd.) 394,881; May 5; Serial No. 440,945; published Feb. 24, 1942.

CLASS 28

Beads, Strings of. G. J. Hecht. 394,899; May 5; Serial No. 445,942; published Feb. 24, 1942.
Beads, Strings of. G. J. Hecht. 394,902; May 5; Serial No. 446,570; published Feb. 24, 1942.
Necklaces and bracelets, finger rings, earrings, etc. Cohn & Rosenberger, Inc. 394,945; May 5; Serial No. 449,091; published Feb. 24, 1942.

CLASS 30

Dishes, Ceramic breakfast, luncheon, and dinner. Robert W. Irwin Company. 394,910; May 5; Serial No. 447,516; published Feb. 24, 1942.
Mattresses. Stearns & Foster Co. 159,115; renewed Sept. 19, 1942.
Mattresses. Stearns & Foster Company. 159,117–9; renewed Sept. 19, 1942.

CLASS 33

Glassware, Table, bar and cooking. Robert W. Irwin Company. 394,912; May 5; Serial No. 447,518; published Feb. 24, 1942.

CLASS 34

Heaters, Circulating oil, wood, coal, and gas. Gamble Stores Incorporated. 394,927; May 5; Serial No. 448,473; published Feb. 24, 1942.
Heaters, Electric and gas water. A. O. Smith Corporation. 394,992–3; May 5; Serial Nos. 449,784–5; published Feb. 24, 1942.
Metal supporting ring and heat dissipating gauze employed to support glassware over burners, Combined. Fisher Scientific Company. 395,012; May 5.

CLASS 35

Belting, Cross-sectionally V-shaped flat and round transmission, elevating, and conveying. Ton Tex Corporation. 394,960; May 5; Serial No. 449,306; published Feb. 24, 1942.

CLASS 36

Musical instruments, Band and orchestra. Lyons Band Instrument Company. 394,889; May 5; Serial No. 444,348; published Feb. 24, 1942.

CLASS 37

Blank forms—namely, account cards. Rand McNally & Company. 394,897; May 5; Serial No. 445,900; published Feb. 24, 1942.
Blank forms—namely, gift certificates. Hart, Schaffner & Marx. 394,898; May 5; Serial No. 445,939; published Feb. 24, 1942.
Cards, Blank correspondence. F. Handfield. 395,023; May 5.
Paper and ledger, Writing. Fox River Paper Co. 159,353; renewed Sept. 26, 1942.

Paper, Book. Kimberly-Clark Corporation. 394,978; May 5; Serial No. 449,551; published Feb. 24, 1942.
Paper fasteners. Remington Rand Inc. 395,013–14; May 5.
Paper napkins, paper mats, and paper table covers. E. R. Krueger. 395,029; May 5.
Tacks, Thumb. Waterbury Tack Company. 395,005; May 5.

CLASS 38

Cartoons. All-American Comics, Inc. 394,891; May 5; Serial No. 445,078; published Feb. 24, 1942.
Magazine. M. C. Gaines. 394,955; May 5; Serial No. 449,229; published Feb. 24, 1942.
Magazine. Virginia Breeder, Inc. 395,021; May 5.
Magazine publication. Detective Comics, Inc. 394,922; May 5; Serial No. 448,076; published Feb. 24, 1942.
Magazine publication. Detective Comics, Inc. 394,923; May 5; Serial No. 448,096; published Feb. 24, 1942.
Magazines and circulars. Safety Legion of America. 394,895; May 5; Serial No. 445,750; published Feb. 24, 1942.
Newspaper column. Sporting News Publishing Company. 394,938; May 5; Serial No. 448,879; published Feb. 17, 1942.
Newspaper column. Tribune Company. 394,942; May 5; Serial No. 448,991; published Feb. 17, 1942.
Newspaper, Daily. Newspaper PM, Inc. 394,928; May 5; Serial No. 448,576; published Feb. 24, 1942.
Periodical. Manton Publishing Company. 395,006; May 5.
Periodicals. Webb Publishing Company. 159,149; renewed Sept. 19, 1942.
Pictures, paintings, and prints, Wall. Robert W. Irwin Company. 394,913; May 5; Serial No. 447,519; published Feb. 24, 1942.
Publication. Norwich Pharmacal Company. 157,726; renewed Aug. 15, 1942.
Publications. B. King. 394,894; May 5; Serial No. 445,606; published Feb. 24, 1942.
Title for a magazine section. T. P. Scanlan. 395,018; May 5.

CLASS 39

Boots and shoes. Wm. Filene's Sons Company. 158,950; renewed Sept. 19, 1942.

CLASS 32

Furniture, Bedroom. Robert W. Irwin Company. 394,911; May 5; Serial No. 447,517; published Feb. 24, 1942.
Clothing, Young men's and boys'. J. C. Penney Company. 394,937; May 5; Serial No. 448,837; published Feb. 24, 1942.
Hosiery. Allied Stores Corporation. 395,028; May 5.
Hosiery. Paramount Knitting Company. 154,652; renewed Apr. 18, 1942.
Neckties. Botany Worsted Mills. 394,961; May 5; Serial No. 449,313; published Feb. 24, 1942.
Shirts, boys' work shirts, boys' blouses, etc., Men's work. J. C. Penney Company. 156,909; renewed July 18, 1942.
Shoes. International Shoe Co. 157,113; renewed July 25, 1942.
Shoes. Julian & Kokenge Co. 157,696; renewed Aug. 15, 1942.
Shoes, Ladies'. I. Miller & Sons, Inc. 394,936; May 5; Serial No. 448,834; published Feb. 24, 1942.
Sweaters, suits, bathing suits, scarfs, etc. S. Augstein & Co. 394,980; May 5; Serial No. 449,565; published Feb. 24, 1942.

CLASS 40

Lacings, Shoe, corsets, galloons, etc. International Braid Company. 157,689; renewed Aug. 15, 1942.
Lingerie cases or envelopes, Ornamental sacheted. Bourjois, Inc. 394,950; May 5; Serial No. 449,119; published Feb. 24, 1942.

CLASS 42

Chambray and cheviots in the piece. Riverside & Dan River Cotton Mills. 156,405; renewed June 20, 1942.
Cloths of wool. William Hollins & Company. 157,102; renewed July 25, 1942.
Cotton piece goods. J. C. Penney Company. 156,388; renewed June 20, 1942.

CLASS 44

Applicators. Ortho Products Inc. 394,998; May 5; Serial No. 450,111; published Feb. 24, 1942.
Arch supports. Schur-Fit Foot Appliances. 395,027; May 5.
Hypodermic syringes, hypodermic needles, anaesthesia, instruments, etc. A. E. Smith. 395,015; May 5.

CLASS 45

Beverages, Carbonated, non-alcoholic, non-cereal, malt-less. Seminole Flavor Company. 395,009; May 5.

CLASS 46

Apples, Fresh. Smith & Nelson, Inc. 394,907; May 5; Serial No. 447,256; published Feb. 24, 1942.
Bread. Ward Baking Company. 159,577–8; renewed Sept. 26, 1942.
Candy. Curtiss Candy Company. 394,940; May 5; Serial No. 448,936; published Feb. 24, 1942.
Candy. Pangborn Company. 394,988; May 5; Serial No. 449,696; published Feb. 24, 1942.
Candy. E. C. Lang. 395,031; May 5.
Candy, Mint. American Stores Company. 395,008; May 5.
Canned fruits and vegetables. G. D. Milligan Grocer Company. 156,352; renewed June 20, 1942.
Canned fruits and vegetables. General Grocery Co. 394,951; May 5; Serial No. 449,132; published Feb. 24, 1942.
Canned fruits and vegetables, and crushed fruits, diced peels, etc. R. C. Williams & Company. 394,877; May 5; Serial No. 437,746; published Feb. 24, 1942.
Canned fruits, vegetables, scale and shell fish, etc. J. C. Perry & Company. 157,172; renewed July 25, 1942.
Celery. Muckland Celery Company. 394,939; May 5; Serial No. 448,918; published Feb. 24, 1942.
Coffee. Nash Coffee Company. 159,451; renewed Sept. 26, 1942.
Coffee. E. Bierhaus & Sons. 394,875; May 5; Serial No. 433,244; published Sept. 10, 1940.
Feed, cattle and dairy feed, poultry feed, etc., Horse. H. Fruechtenicht. 159,355; renewed Sept. 26, 1942.
Flour, Wheat. Oklahoma City Mill & Elevator Co. 158,763; renewed Sept. 12, 1942.
Flour, Wheat. Southwestern Milling Company. 159,531; renewed Sept. 26, 1942.
Flour, Wheat. Texas Star Flour Mills. 395,024; May 5.
Food flavoring composition containing vegetable extracts and protein derivative material. Standard Brands Incorporated. 394,999; May 5; Serial No. 450,187; published Feb. 24, 1942.
Food product consisting of a layer of ice cream between two sugar wafers. Abbotts Dairies, Incorporated. 394,970; May 5; Serial No. 449,402; published Feb. 24, 1942.
Food products. B. Cerf. 159,324; renewed Sept. 26, 1942.
Food seasoning containing ground chile peppers, garlic, etc. M. C. Burden. 394,876; May 5; Serial No. 434,432; published Feb. 24, 1942.
Fruit products. National Fruit Preserves, Inc. 394,879; May 5; Serial No. 430,236; published Feb. 24, 1942.
Fruits, Fresh citrus. Sequoia Citrus Association. 394,956; May 5; Serial No. 449,240; published Feb. 24, 1942.
Malt in solid condition. First Caramel Malting Corporation. 394,946–8; May 5; Serial Nos. 449,095–7; published Feb. 24, 1942.
Sirup, Cane. Roddenbery Bros. 154,805; renewed May 9, 1942.
Vinegar, Red wine. F. H. Johnson. 395,020; May 5.

CLASS 47

Vermouth. W. J. Mulligan. 395,016; May 5.
Wines. W. A. Taylor & Co. 394,935; May 5; Serial No. 448,808; published Feb. 24, 1942.
Wines. F. Pirrone & Sons. 394,995; May 5; Serial No. 450,022; published Feb. 24, 1942.

CLASS 48

Beer. Sterling Brewers, Inc. 394,929; May 5; Serial No. 448,626; published Feb. 17, 1942.
Beer and near beer. United States Brewing Company. 159,561; renewed Sept. 26, 1942.

CLASS 49

Cordials. Bardinet, Ltd. 394,933; May 5; Serial No. 448,751; published Feb. 24, 1942.
Liqueur. John De Kuyper & Son, Inc. 394,974; May 5; Serial No. 449,517; published Feb. 24, 1942.
Whiskey. Ed. Phillips & Sons Company. 394,941; May 5; Serial No. 448,985; published Feb. 24, 1942.

CLASS 50

Closet accessories. Robert W. Irwin Company. 394,914; May 5; Serial No. 447,521; published Feb. 24, 1942.
Shaping and stretching machines, shirt spreaders and garment measuring and shaper-drier apparatus, Garment. J. R. Fitzgerald. 394,873; May 5; Serial No. 427,578; published Feb. 24, 1942.
Vegetable fiber material, Resin impregnated needled felted. Columbian Rope Company. 394,934; May 5; Serial No. 448,754; published Feb. 24, 1942.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 5TH DAY OF MAY, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Albright, Robert B., assignor, by mesne assignments, to Philco Radio and Television Corporation, Philadelphia, Pa. Tuning control device for radio receivers and the like. Re. 22,087; May 5.
Higgs, Charles W., London, England, assignor to Borg-Warner Corporation, Chicago, Ill. Clutch. Re. 22,088; May 5.
Penn, Frederic H., Dallas, Tex. High melting point chocolate and preparing the same. Re. 22,089; May 5.
Powell, Edward R., North Plainfield, N. J., assignor, by mesne assignments, to Johns-Manville Corporation, New York, N. Y. Making felted mineral fiber. Re. 22,090; May 5.
Rippen, Nicholas, Los Angeles, Calif. Sheathing system. Re. 22,091; May 5.
Steinmayer, Alwin G., Shorewood, assignor to Line Material Company, South Milwaukee, Wis. Fuse. Re. 22,092; May 5.

LIST OF PLANT PATENTEES

Brockner, Frank, assignor to Holton & Hunkel Co., Milwaukee, Wis. Saintpaulia plant. 514; May 5.
Byrum, Roy L., assignor to J. H. Hill Company, Richmond, Ind. Rose plant. 513; May 5.

LIST OF DESIGN PATENTEES

Aluminum Cooking Utensil Company, The. (See Miller, Arthur P., assignor.)
Aluminum Cooking Utensil Company, The. (See Miller, A. P., and Hestwood, assignors.)
American Hoist and Derrick Company. (See Stoddard, Robert J., assignor.)
Autoyre Company, The. (See Sanford, Roy S., assignor.)
Baer, Max, New York, N. Y. Muff. 132,320; May 5.
Baird, Ralph F., Youngstown, Ohio. Badge or similar article. 132,269; May 5.
Baker, Le Roy, Kansas City, Kans. Golf game device. 132,270; May 5.
Baum, Abby B., Seattle, Wash. Baby's observation stimulating device. 132,244; May 5
Bausch & Lomb Optical Company. (See Stegeman, Raymond F. E., assignor.)
Beebe, Edwin D. (See Noel, V. A., and Beebe.)
Benton, Wallace H., assignor to The Selby Shoe Company, Portsmouth, Ohio. Shoe. 132,292; May 5.
Bermond, Jack F., New York, N. Y., assignor to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J. Display container for jewelry or the like. 132,309; May 5.
Castle, Wilmont, Company. (See Greppin, Ernest H., assignor.)
Chandler, Orvin H., W. W. Chandler, and C. R. Copeland, Cocoa, Fla. Ashtray. 132,310; May 5.
Chandler, William W. (See Chandler, O. H., Chandler and Copeland.)
Charms Company. (See Weise, Frederick H., assignor.)
Chase, Jules, New York, N. Y. Applique embroidery. 132,245; May 5.
Clarke, Louis B., South San Francisco, Calif. Plaque. 132,246; May 5.
Coakley, Francis J., London, England. Hair curler comb. 132,271; May 5.
Cohn & Rosenberger, Inc. (See Katz, Adolph, assignor.)
Cooper, Harry L., Steubenville, Ohio. Badge or similar article. 132,247; May 5.
Copeland, Claremont R. (See Chandler, O. H., Chandler and Copeland.)
Crane Co. (See Dreyfuss, Henry, assignor.)
Curtman Co. (See Manzotti, Galliano, assignor.)
De Ganahl, Frank, Riverton, N. J., assignor to Fleetwings, Incorporated, Bristol, Pa. Badge. 132,272; May 5.
De Ganahl, Frank, Riverton, N. J., assignor to Fleetwings, Incorporated, Bristol, Pa. Badge. 132,273; May 5.
Dixon, Eileen, Miami, Fla. Brooch or similar article. 132,321; May 5.
Dixon, Eileen, Miami, Fla. Brooch or similar article. 132,322; May 5.
Dreyfuss, Henry, New York, N. Y., assignor to Crane Co., Chicago, Ill. Built-in paper holder or the like. 132,248; May 5.
Dreyfuss, Henry, New York, N. Y., assignor to Crane Co., Chicago, Ill. Built-in soap dish. 132,249; May 5.
Dreyfuss, Henry, New York, N. Y., assignor to Crane Co., Chicago, Ill. Built-in tumbler holder 132,250; May 5.
Dubinsky, Jack, Chicago, Ill. Bracelet link or similar article. 132,311; May 5.
Eddy, William C., Michigan City, Ind. Television camera. 132,274; May 5.
Eron, Marie, Chicago, Ill. Pin or similar article. 132,251; May 5.
Faunce, James F., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Waffle iron. 132,252; May 5.
Fay, John C., Connersville, Ind., assignor to Hamilton Manufacturing Company, Two Rivers, Wis. Physician's examining table or the like. 132,293; May 5.
Fay, John C., Connersville, Ind., assignor to Hamilton Manufacturing Company, Two Rivers, Wis. Physician's examining table or the like. 132,294; May 5.
Fay, John C., Connersville, Ind., assignor to Hamilton Manufacturing Company, Two Rivers, Wis. Cabinet. 132,295; May 5.
Ferguson, Harry R., Battle Creek, Mich. Pennant or similar article. 132,253; May 5.
Firestone Tire & Rubber Company, The. (See Faunce, James F., assignor.)
Flavell, Harry N., Jr. (See Harvey, Walter R., Henry, and Flavell.)
Fleetwings, Incorporated. (See de Ganahl, Frank, assignor.)
General Motors Corporation. (See McCormick, Francis H., assignor.)
Genter, Edward J., New London, Conn. Poster or similar article. 132,275; May 5.
Giovanni, Edward S., New York, N. Y. Combination ashtray and card tray. 132,312; May 5.
Greppin, Ernest H., Brighton, assignor to Wilmot Castle Company, Rochester, N. Y. Lighting fixture. 132,276; May 5.
Hamilton Manufacturing Company. (See Fay, John C., assignor.)
Hampton, Ernest W., Artemus, Ky. Game board. 132,313; May 5.
Harvey, Walter R., Quarryville, J. T. Henry, Jr. and H. N. Flavell, Jr., York, Pa. Plaque or similar article. 132,254; May 5.
Henry, Joseph T., Jr. (See Harvey, Walter R., Henry, and Flavell.)
Hestwood, John C. (See Miller, A. P., and Hestwood.)
Hobé, William W., New York, N. Y. Brooch or similar article. 132,323; May 5.
Hobé, William W., New York, N. Y. Brooch or similar article. 132,324; May 5.
Hobé, William W., New York, N. Y. Brooch or similar article. 132,325; May 5.
Hobé, William W., New York, N. Y. Brooch or similar article. 132,326; May 5.
Hobé, William W., New York, N. Y. Brooch or similar article. 132,327; May 5.
Hobé, William W., New York, N. Y. Brooch or similar article. 132,328; May 5.
Hobé, William W., New York, N. Y. Brooch or similar article. 132,329; May 5.
Hobé, William W., New York, N. Y. Brooch or similar article. 132,330; May 5.
Hoeveler, John A., Mount Lebanon, assignor to Pittsburgh Reflector Company, Pittsburgh, Pa. Reflector for tubular lamps. 132,296; May 5.
Hubert, Rene, Hollywood, Calif. Snowshield or the like. 132,297; May 5.
Jorgensen, Clarence W., Chicago, Ill. Pad holder. 132,298; May 5.
Junghanns, Ernest L., Yonkers, N. Y. Cabinet. 132,255; May 5.

Kalep, Elvy, New York, N. Y. Combined toy figure and parachute. 132,277; May 5.
Katz, Adolph, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y. Brooch or similar article. 132,331; May 5.
Katz, Adolph, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y. Brooch or similar article. 132,332; May 5.
Katz, Adolph, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y. Brooch or similar article. 132,333; May 5.
Katz, Adolph, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y. Brooch or similar article. 132,334; May 5.
Katz, Adolph, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y. Brooch or similar article. 132,335; May 5.
Katz, Adolph, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y. Brooch or similar article. 132,336; May 5.
Katz, Adolph, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y. Brooch or similar article. 132,337; May 5.
Katz, Adolph, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y. Brooch or similar article. 132,338; May 5.
Kowalski, Stephen A., South Bend, Ind. Mat or similar article. 132,299; May 5.
Kreisler, Jacques, Manufacturing Corporation. (See Bermond, Jack F., assignor.)
Kristofferson, L. (See Whittaker, Norman A., assignor.)
Libbey Glass Company. (See Sawyer, Charles W., assignor.)
Ludwig, Louis, Brooklyn, N. Y. Desk lamp. 132,278; May 5.
Manzotti, Galliano, assignor to Curtman Co., Providence, R. I. Badge or similar article. 132,256; May 5.
McCormick, Francis H., assignor to General Motors Corporation, Dayton, Ohio. Range surface heating unit. 132,279; May 5.
Meltzer, Elie, Plainfield, N. J. Bag or the like. 132,300; May 5.
Melville, Russell V., Henning, Minn. Combination cake pan and dough cutter. 132,314; May 5.
Miller, Arthur P., assignor to The Aluminum Cooking Utensil Company, New Kensington, Pa. Baking dish or similar article. 132,280; May 5.
Miller, Arthur P., and J. C. Hestwood, assignors to The Aluminum Cooking Utensil Company, New Kensington, Pa. Casserole cover or similar article. 132,281; May 5.
Miller, Doris, assignor to Doris Miller, Inc., New York, N. Y. Lady's undergarment or the like. 132,339; May 5.
Murray, Arthur H. (See Noel, Victor A., and Murray.)
Noel, Victor A., Brighton, and A. H. Murray, Rochester, N. Y., assignors to Ritter Company, Inc., New Castle County, Del. Cuspidor stand. 132,282; May 5.
Noel, Victor A., Brighton, and E. D. Beebe, Rochester, N. Y., assignors to Ritter Company, Inc., New Castle County, Del. Medical equipment stand. 132,283; May 5.
Parke, Davis & Company. (See Schutz, Thomas A., assignor.)
Pearce, Lloyd, Tulsa, Okla. Fan. 132,315; May 5.
Pittsburgh Reflector Company. (See Hoeveler, John A., assignor.)
Putterman, Benjamin, Brooklyn, N. Y., assignor to Yankee Metal Products Corp., Norwalk, Conn. Combination thermometer, mirror, and reflector device. 132,316; May 5.
Ritter Company. (See Noel, Victor A., and Murray, assignors.)
Ritter Company. (See Noel, Victor A., and Beebe, assignors.)
Ross, Irven N. (See Wilson, Everette A. and Ross.)
Sanford, Roy S., assignor to The Autoyre Company, Incorporated, Oakville, Conn. Grab bar or similar article. 132,257; May 5.
Sanford, Roy S., assignor to The Autoyre Company, Incorporated, Oakville, Conn. Grab bar or similar article. 132,258; May 5.
Sanford, Roy S., assignor to The Autoyre Company, Incorporated, Oakville, Conn. Grab bar or similar article. 132,259; May 5.
Sanford, Roy S., assignor to The Autoyre Company, Incorporated, Oakville, Conn. Grab bar or similar article. 132,260; May 5.
Sanford, Roy S., assignor to The Autoyre Company, Incorporated, Oakville, Conn. Grab bar or similar article. 132,261; May 5.
Sanford, Roy S., assignor to The Autoyre Company, Incorporated, Oakville, Conn. Grab bar or similar article. 132,262; May 5.
Sanford, Roy S., assignor to The Autoyre Company, Incorporated, Oakville, Conn. Grab bar or similar article. 132,263; May 5.
Sawyer, Charles W., assignor to Libbey Glass Company, Toledo, Ohio. Vase. 132,264; May 5.
Sawyer, Charles W., assignor to Libbey Glass Company, Toledo, Ohio. Jar. 132,284; May 5.
Sawyer, Charles W., assignor to Libbey Glass Company, Toledo, Ohio. Candy jar. 132,285; May 5.
Schumacher, Lillian, Brooklyn, N. Y. Combination knife and fork. 132,317; May 5.
Schutz, Thomas A., Chicago, Ill., assignor to Parke, Davis & Company, Detroit, Mich. Counter display case. 132,318; May 5.
Schwartz, Jerome M., New York, N. Y. Reversible hooded coat. 132,340; May 5.
Scott, Lawrence B., Columbus, Ohio. Repair lock for metal castings or the like. 132,265; May 5.
Selby Shoe Company, The. (See Benton, Wallace H., assignor.)
Shawl, Alfred B., New York, N. Y. Combined lapel watch and reflector button. 132,266; May 5.
Smilo, Paul P., New York, N. Y. Lapel pin. 132,341; May 5.
Soukup, Leo, and R. V. Westover, Lincoln, Nebr. Necktie holder. 132,286; May 5.
Steckler, Nat P., New York, N. Y. Finger guard or similar article. 132,287; May 5.
Stegeman, Raymond F. E., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Eye testing instrument. 132,288; May 5.
Stoddard, Robert J., assignor to American Hoist and Derrick Company, St. Paul, Minn. Truck for a traveling crane. 132,301; May 5.
Stoddard, Robert J., assignor to American Hoist and Derrick Company, St. Paul, Minn. Truck for a traveling crane. 132,302; May 5.
Stoddard, Robert J., assignor to American Hoist and Derrick Company, St. Paul, Minn. Truck for a traveling crane. 132,303; May 5.
Stoddard, Robert J., assignor to American Hoist and Derrick Company, St. Paul, Minn. Truck for a traveling crane. 132,304; May 5.
Stoddard, Robert J., assignor to American Hoist and Derrick Company, St. Paul, Minn. Truck for a traveling crane. 132,305; May 5.
Stoddard, Robert J., assignor to American Hoist and Derrick Company, St. Paul, Minn. Truck for a traveling crane. 132,306; May 5.
Stoddard, Robert J., assignor to American Hoist and Derrick Company, St. Paul, Minn. Truck for a traveling crane. 132,307; May 5.
Taylor, Charles H., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company. Suction cleaner or the like. 132,319; May 5.
Thompson, Max C., South Pasadena, Calif. Cleaning gun unit. 132,289; May 5.
Wadely, Harold E., Scarsdale, N. Y. Woven pile carpet fabric. 132,290; May 5.
Wallace, R., & Sons Manufacturing Company. (See Warren, William S., assignor.)
Warren, William S., Meriden, assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Spoon or other article of flatware. 132,308; May 5.
Weise, Frederick H., assignor to Charms Company, Bloomfield, N. J. Confectionery product. 132,267; May 5.
Westover, Richard V. (See Soukup, Leo, and Westover.)
Westinghouse Electric & Manufacturing Company. (See Taylor, Charles H., assignor.)
Whittaker, Norman A., assignor of one-fourth to L. Kristofferson, Seattle, Wash. Ultra-violet applicator. 132,291; May 5.
Wilson, Everette A., and Irven N. Ross, Salinas, Calif. Game board. 132,268; May 5.
Yankee Metal Products Corp. (See Putterman, Benjamin, assignor.)

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 5TH DAY OF MAY, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abernethy, George R., Charlotte, N. C. Educational toy. 2,281,656; May 5.
Aceves, Julius G. (See Amy, E. V., and Aceves.)
Adams, Gale L., San Marino, Calif., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Adiabatic fractionating column. 2,281,906; May 5.
Adlake Company, The. (See Hagerty, Andrew T., assignor.)
Advertising Displays Incorporated. (See Austin, Charles D., assignor.)
Aeration Processes, Inc. (See Smith, Alynne H., assignor.)
Aircraft Radio Corporation. (See Drake, Frederick H., assignor.)
Aktiebolaget Gerh. Arehns Mekaniska Verkstad. (See Tolnai, Gabor K., assignor.)
Aktiengesellschaft Brown, Boveri & Cie. (See Thommen, Hans, assignor.)
Albertson & Company. (See Albertson, Frans O., assignor.)
Albertson, Frans O., assignor to Albertson & Company, Inc., Sioux City, Iowa. Metal spray gun. 2,282,214; May 5.
Alexander, George, Pittsfield, Mass., assignor to General Electric Company. Resinous plasticizer. 2,282,017; May 5.
Allen-Bradley Company. (See Beeman, L., and Hanke, assignors.)
Allen-Bradley Company. (See Hanke, Edwin W. R., assignor.)
Allen, Roy O., Athens, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Implement retainer. 2,282,149; May 5.
Allis-Chalmers Manufacturing Company. (See Henter, Mathias, assignor.)
Allsworth, Terrence W. (See Fay, E., and Allsworth.)
Altenkirch, Edmund, Neuenhagen, near Berlin, Germany. Air conditioning. 2,281,815; May 5.
American Anode Inc. (See Hansen, Merrill E., assignor.)
American Arch Company. (See Schroeder, Karl, assignor.)
American Bosch Corporation. (See Schwarzmann, W. E., and Strniste, assignors.)
American Cyanamid Company. (See Jayne, David W., Jr., assignor.)
American Cyanamid Company. (See Moore, William, assignor.)
American Engineering Company. (See Bennett, Joseph S., assignor.)
American Engineering Company. (See Lamond, Robert C., assignor.)
American Gas Accumulator Company. (See Parsberg, Erik R., assignor.)
American Laundry Machinery Company, The. (See Gabbert, Hugh W., assignor.)
American Locomotive Company. (See Nichols, W. M., Anderson and Aue, assignors.)
American Merri-Lei Corporation. (See Hoeflich, Victor T., assignor.)
American Rolling Mill Company, The. (See Fay, E., and Allsworth, assignors.)
American Safety Razor Corporation. (See Dalkowitz, Godfrey, assignor.)
American Steel Foundries. (See Cottrell, Robert B., assignor.)
Amy, Ernest V., and J. G. Aceves, New York, N. Y. All wave radio receiving system. 2,282,292; May 5.
Andary, Sarah S., Ocala, Fla. Opening and dispensing device. 2,282,150; May 5.
Anderson, John W. (See Nichols, W. M., Anderson and Aue.)
Andrews, Albert K., Vancouver, Wash. Pneumatic treating recovery head for dehydrated ore. 2,281,816; May 5.
Andrews, Edward F., Chicago, Ill. Automatic phonograph. 2,281,547; May 5.
Andrews, Edward F., Chicago, Ill. Automatic phonograph. 2,281,548; May 5.
Andrews, Eleanor U. (See Moskovics, Frederick E., assignor.)
Angell, Robert C., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Folding chair. 2,282,109; May 5.
Angell, Robert C., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Fluid dispenser. 2,282,110; May 5.
Anthony, Thomas P., Edgewater Park, N. J. Centrifugal soil pipe casting machine. 2,281,867; May 5.
Aquino, Salvatore A., Brooklyn, N. Y., assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio. Package. 2,281,657; May 5.
Arbic, Honorius A. (See Barr, A. J., and Arbic.)
Arnold, Albert, Detroit, Mich. Water craft drive. 2,281,549; May 5.
Arnold, Hoffman & Co. Incorporated. (See Morgan, W. L., assignor.)
Arvey Corporation. (See Strauss, Charles, assignor.)
Asbridge, Harry H., Ashton-on-Mersey, assignor to The Churchill Machine Tool Company, Limited, Broadheath, near Altrincham, England. Work gauging instrument for precision grinding machines. 2,281,817; May 5.
Ash, Carl G., Pomona, Calif. Railway locomotive piston valve inertia arrester. 2,281,818; May 5.
Ash, Charles S., Milford, Mich. Dual wheel assembly. 2,281,541; May 5.
Ashlock, Harold J., Aruba, Netherlands West Indies, assignor to Standard Oil Development Company. Gauging device. 2,281,907; May 5.
Associated Electric Laboratories. (See Fowler, Ralph R., assignor.)
Associated Electric Laboratories Inc. (See Hadfield, Bertram M., assignor.)
Associated Manufacturers, Inc. (See Potter, Miles S., assignor.)
Associated Telephone and Telegraph Company. (See Terroni, T. B. D., and McCusker, assignors.)
Atlyeh, George E., et al. (See Jahjah, Joseph, assignor.)
Atkinson, John F., Harrisonville, Mo. Wallpaper removing device. 2,281,819; May 5.
Atlantic Refining Company. (See Chechot, Vladimir L., assignor.)
Atlas Underwear Company, The. (See Flesh, Alfred L., assignor.)
Aue, George K. (See Nichols, W. M., Anderson and Aue.)
Austin, Charles D., Cincinnati, Ohio, assignor to Advertising Displays Incorporated, Covington, Ky. Stereoscope. 2,282,151; May 5.
Automatic Shifters, Inc. (See Hey, Henry W., assignor.)
Automatic Signal Corporation. (See Barker, John L., assignor.)
Babbin, Edward, New York, N. Y. Double action shower mixing valve. 2,282,152; May 5.
Babcock, Guilford C., Morris Township, Morris County, N. J., assignor to Stapling Machines Co. Box. 2,281,908; May 5.
Baker, Benjamin F., Turtle Creek, and A. H. Bakken, Edgewood, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit interrupter. 2,282,153; May 5.
Baker, Chester L., Penn Wynne, assignor to Philadelphia Quartz Company, Philadelphia, Pa. Manufacture of alkali metal silicate detergents. 2,282,018; May 5.
Baker Perkins Inc. (See Riordan, Albert O., assignor.)
Bakken, Andrew H. (See Baker, B. P., and Bakken.)
Bakken, Andrew H., Edgewood, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit interrupter. 2,282,154; May 5.
Bakken, Andrew H. (See Johnson, P. B., and Bakken.)
Ball, Charles F., Wauwatosa, assignor to Chain Belt Company, Milwaukee, Wis. Truck mixer hopper. 2,281,820; May 5.
Balmer, Richard, Winterthur-Seen, assignor to Sulzer Freres Societe Anonyme, Winterthur, Switzerland. Diesel engine and gas compressor combination. 2,281,821; May 5.
Balousek, William E., Hinsdale, assignor to W. J. Dennis & Company, Chicago, Ill. Automatic door bottom. 2,282,019; May 5.
Balsiger, Harold E., assignor to Landis Tool Company, Waynesboro, Pa. Bearing arrangement. 2,281,658; May 5.
Balthasar, Harry G., Cincinnati, Ohio. Bracket for window furnishings. 2,281,659; May 5.
Bandur, Adolph F., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Molding die. 2,282,155; May 5.
Bannon, Lewis A., and H. G. Schneider, Roselle, N. J., assignors to Standard Oil Development Company. Separation of isobutylene from hydrocarbon mixtures. 2,281,911; May 5.
Barber-Colman Company. (See Edgar, John, assignor.)
Barcalo Manufacturing Company. (See Vallone, Joseph M., assignor.)
Bareco Oil Company. (See Wiles, Everett R., assignor.)

Barker, John L., Norwalk, assignor to Automatic Signal Corporation, East Norwalk, Conn. Traffic actuated signaling apparatus. 2,282,142; May 5.

Barr, Alexander J., Carp, Ontario, and H. A. Arbic, Bristol, Quebec, Canada. Crop divider for mowing machines. 2,281,660; May 5.

Barrans, William T., Towson, and P. M. Cole, Dundalk, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Electrical conductor. 2,281,542; May 5.

Barrow, Wilmer L., Newton, Mass., assignor to Research Corporation, New York, N. Y. Electric-circuit element. 2,281,550; May 5.

Barrow, Wilmer L., Newton, Mass., assignor to Research Corporation, New York, N. Y. Electric communication. 2,281,551; May 5.

Barrow, Wilmer L., Newton, Mass., assignor to Research Corporation, New York, N. Y. Electric communication. 2,281,552; May 5.

Barry-Wehmiller Machinery Company. (See Herold, J. L., Nekola, and Wehmiller, assignors.)

Barsky, George, New York, and F. A. Strauss, Staten Island, N. Y., assignors to A. S. Daneman, Dayton, Ohio. Printing stencil and making the same. 2,281,909; May 5.

Bartell, Floyd E. (See Copeman, L. G., and Bartell.)

Barton, Loy E., Collingswood, N. J., assignor to Radio Corporation of America. Tuning system. 2,281,661; May 5.

Baumbach, Emil A., River Forest, Ill. Punch holder shank. 2,281,543; May 5.

Baxter, James G. (See Hickman, K. C. D., and Baxter.)

Bay State Optical Company. (See Nerney, George E., assignor.)

Bay State Optical Company. (See Person, Axel, assignor.)

Bazeley, Arthur J., deceased, Shaker Heights, Ohio, by Ruth McKean Bazeley, Shaker Heights, executrix, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Car coupling and supporting apparatus. 2,281,662; May 5.

Bazeley, Ruth McK., as executrix. (See Baseley, Arthur J.)

Beard, Theodore H., and J. M. Lucarelle, Bridgeport, Conn., assignors to Dictaphone Corporation, New York, N. Y. Connecting sound tubes to dictating machines. 2,282,020; May 5.

Bechtner, Paul. (See Gelder, Royal W., assignor.)

Becker, Wilhelm. (See Wollthan, H., and Becker.)

Beckwith, Wendell K., Milwaukee, and W. H. Lieber, Wauwatosa, assignors to Milwaukee Electric Tool Corporation, Milwaukee, Wis. Metal straightener. 2,282,111; May 5.

Beeman, Lyle, Milwaukee, and E. W. F. Hanke, Whitefish Bay, assignors to Allen-Bradley Company, Milwaukee, Wis. Pressure switch. 2,281,544; May 5.

Behnisch, Robert. (See Pohls, P., and Benisch.)

Bell & Howell Company, The. (See Stechbart, Bruno, assignor.)

Bell Telephone Laboratories, Incorporated. (See Bjornson, Bjorn B., assignor.)

Bell Telephone Laboratories, Incorporated. (See Mason, Warren P., assignor.)

Bell Telephone Laboratories, Incorporated. (See Samuel, Arthur L., assignor.)

Bell Telephone Laboratories, Incorporated. (See Strickler, Walter B., assignor.)

Belmont Radio Corporation. (See Plensler, Alexander W., assignor.)

Benes, Edwin J., Cleveland, Ohio. Fishing reel spool. 2,282,156; May 5.

Bennett, Alva H., Kenmore, and R. S. Estey, assignors to Spencer Lens Company, Buffalo, N. Y. Colorimeter. 2,281,545; May 5.

Bennett, Joseph S., Merion, assignor to American Engineering Company, Philadelphia, Pa. Stoker. 2,282,157; May 5.

Bennet, Loren F., and A. C. Dahl, Hinsdale, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Container. 2,282,158; May 5.

Bennett, Stanton A., Braintree, Mass., assignor, by mesne assignments, to Houdry Process Corporation, Wilmington, Del. Variable cycle timer. 2,281,553; May 5.

Benningfield, Thomas, Buffalo, Okla. Truss and abdominal support. 2,282,021; May 5.

Berger, Meyers M., Youngstown, Ohio. Cap troner. 2,281,546; May 5.

Bergström, Hilding O. V. and K. G. Trobeck, Stockholm, Sweden. Making the contaminated water from alkaline pulp mills harmless. 2,281,112; May 5.

Berndt, Harold H. (See Berndt, Hugo O., assignor.)

Berndt, Hugo O., assignor to Harold H. Berndt, Hartford, Wis. Teat cup. 2,282,159; May 5.

Berndt, Otto. (See Moerlin, W. J., Berndt and Wales.)

Bethke, Albert H. (See Niles, R. W., Bethke and Graves.)

Bethlehem Steel Company. (See McKinney, Paul E., assignor.)

Bevarly, Henry W. (See Miller, B. DeH., and Bevarly.)

Bialosky, Jerome M., and M. Merlub-Sobel, Cleveland Heights, assignors to William L. Ulmer, Cleveland, Ohio. Flux. 2,281,910; May 5.

Bickley, Everett H., Bala Cynwyd, Pa. Photo-electric tube. 2,282,302; May 5.

Bischoff, Louis, assignor to Oneida Paper Products, Inc., New York, N. Y. Bag feeding apparatus. 2,282,160; May 5.

Bills, Claud H., and G. E. Young, Los Angeles, Calif. Metal grating. 2,281,822; May 5.

Binks Manufacturing Company. (See Bramsen, S., and MacMartin, assignors.)

Bishop, Joseph W., Detroit, and A. W. Bull, Grosse Pointe, Mich., assignors, by mesne assignments, to United States Rubber Company, New York, N. Y. Forming tire molds. 2,282,022; May 5.

Bishop, Joseph W., Detroit, and A. W. Bull, Grosse Pointe, Mich., assignors, by mesne assignments, to United States Rubber Company, New York, N. Y. Electrolytic apparatus for forming tire molds. 2,282,023; May 5.

Bitar, H. A., et al. (See Jahjah, Joseph, assignor.)

Bitner, Ralph E., New York, N. Y. Liquid sterilizer. 2,282,024; May 5.

Bixler, Milo E., and C. C. Coons, assignors to The Hoover Company, North Canton, Ohio. Refrigeration. 2,281,823; May 5.

Bjornson, Bjorn B., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Two-way signaling system. 2,281,912; May 5.

Blackhawk Mfg. Co. (See Mandle, Siegmund, assignor.)

Blickhan, Herbert L., Independence, Mo. Receptacle support. 2,281,740; May 5.

Blue, Robert D. (See Hunter, R. M., Otis, and Blue.)

Bock, Heinrich. (See Liebau, M., and Bock.)

Boe, Walter, and T. G. Stuppy, San Gabriel, Calif. Reel for line washing and drying. 2,281,868; May 5.

Bohn Aluminum & Brass Corporation. (See Nelson, Adolph L., assignor.)

Bohr, Frank P., Chicago, Ill., assignor of one-half to W. Bohr, Parkston, S. D. Cigarette paper holder. 2,281,663; May 5.

Bohr, Walter. (See Bohr, Frank P., assignor.)

Booth, Louis J. (See Uhlemann, W. R., and Booth.)

Borg-Warner Corporation. (See Higgs, Charles W., assignor.)

Borg-Warner Corporation. (See Swenson, C. E., and Potgieter, assignors.)

Börjeson, Edward W., Stockholm, Sweden. Wheel suspension. 2,282,025; May 5.

Boulard, Constance, Union City, N. J. Construction for the digits of display figures and the like. 2,281,741; May 5.

Boulton, Carson B. (See Constant, T. D., and Boulton.)

Bowser, Roland W., Red Bank Township, Clarion County, Pa. Combined window shade and curtain rod support. 2,281,664; May 5.

Braden Copper Company. (See Johnson, Benjamin Le B., assignor.)

Bradt, Charles H., Groton, assignor to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y. Adding machine. 2,281,742; May 5.

Brady, Raymond F., Haddonfield, N. J., assignor to Radio Corporation of America. Phonographic apparatus. 2,281,665; May 5.

Brailsford, Joseph D. (See Rust, N. M., Brailsford and Goodenough.)

Brailsford, Joseph D., London, England, assignor to Radio Corporation of America. Band-pass filter. 2,282,113; May 5.

Braithwaite, Isaac, & Sons Engineers Limited. (See O'Brien, Terence H., assignor.)

Bramsen, Svend, Chicago, and W. B. MacMartin, Lombard, assignors to Binks Manufacturing Company, Chicago, Ill. Valve control means for spray guns. 2,281,666; May 5.

Brasseur, Ernest J., Winnetka, assignor to A. B. Dick Company, Chicago, Ill. Duplicating machine. 2,281,869; May 5.

Brauer, Otto H., Three Rivers, Mich., assignor to Fairbanks, Morse & Co., Chicago, Ill. Journal assembly for axle or shaft bearings. 2,282,161; May 5.

Bray, Ulric B., Palos Verdes Estates, assignor to Union Oil Company of California, Los Angeles, Calif. Method for treating oils. 2,281,667; May 5.

Bray, Ulric B., Palos Verdes Estates, assignor to Union Oil Company of California, Los Angeles, Calif. Modified lubricating oil. 2,281,824; May 5.

Bren, Bozetech C., Verona, J. H. Hopkins and G. H. Wilder, Arlington, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Treatment of polyvinyl acetal resins. 2,282,026; May 5.

Brister, Jess W., Alexandria, La. Micrometer calipers. 2,282,114; May 5.

Brockhurst, James B., Red Bank, N. J. Casting cement. 2,282,027; May 5.

Bronander, Wilhelm B., Montclair, N. J. Container sealing machine. 2,282,162; May 5.

Brooker, Leslie G. S., and F. L. White, assignors to Eastman Kodak Company, Rochester, N. Y. Trinuclear polymethine dyes. 2,282,115; May 5.

Brooker, Leslie G. S., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic element. 2,282,116; May 5.

Brooks Equipment Corporation. (See Brooks, Stephen H., assignor.)

Brooks, Stephen H., assignor to Brooks Equipment Corporation, New York, N. Y. Power transmission means. 2,281,913; May 5.

Brooks, Stephen H., assignor to Brooks Equipment Corporation, New York, N. Y. Lubricated shaft and gear means. 2,281,914; May 5.

Brown, George H., Haddonfield, N. J., assignor to Radio Corporation of America. Apparatus and method for adjusting transmitting antennas. 2,281,668; May 5.

Brown, Louis M., Westfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit breaker. 2,281,743; May 5.

Brown, William L., Lansdowne, Pa. Gas meter. 2,281,669; May 5.

Brown, William L., Lansdowne, Pa. Gas meter. 2,281,670; May 5.

Brown, William L., Lansdowne, Pa. Gas meter. 2,281,671; May 5.

Brunner, Newton L., East Cleveland, Ohio. Face mask. 2,281,744; May 5.

Bryant, Alva T. (See Gladfelter, W. I., and Bryant.)

Bryce, James W., Glen Ridge, N. J., assignor to International Business Machines Corporation, New York, N. Y. Electrical accumulator. 2,282,028; May 5.

Bryce, James W., Glen Ridge, N. J., assignor to International Business Machines Corporation, New York, N. Y. Recording device. 2,282,029; May 5.

Buchanan, Michel K., Norfolk, Va. Combined play pen and table. 2,281,672; May 5.

Buckingham, William D., Southhampton, assignor to The Western Union Telegraph Company, New York, N. Y. Printing telegraph error detecting system. 2,281,745; May 5.

Budd, Edward G., Manufacturing Company. (See Dean, Albert G., assignor.)

Budd, Edward G., Manufacturing Company. (See Horton, Reuben H., assignor.)

Budd, Edward G., Manufacturing Company. (See Mealing, K. W., and Harwick, assignors.)

Bull, Arthur W. (See Bishop, J. W., and Bull.)

Burdick, John N., Buffalo, N. Y., assignor to The Linde Air Products Company. Apparatus for detecting combustible gases. 2,281,746; May 5.

Burgwin, Stephen L., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Treatment of silicon-iron alloys. 2,282,163; May 5.

Burkholder, John W., Hudson, Wis. Necktie. 2,281,825; May 5.

Burnelli, Vincent J., Keyport, N. J., assignor to Central Aircraft Corporation. Military airplane. 2,281,673; May 5.

Burt, Guy H. (See Cavanagh, John F., assignor.)

Busignies, Henri G., Paris, France, assignor to International Standard Electric Corporation, New York, N. Y. System of guiding vehicles. 2,282,030; May 5.

Buswell, Wallace H., Kalamazoo, Mich. Selective apparatus. 2,282,164; May 5.

Calleson, Amos, and E. A. Calleson, Merrick, N. Y., assignors to Crown Cork & Seal Company, Inc., Baltimore, Md. Curling machine. 2,281,554; May 5.

Calleson, Edgar A. (See Calleson, Amos and E. A.)

Camp, Thomas R., Newton, Mass. Flow control apparatus. 2,281,826; May 5.

Campbell, Lester, assignor to Foster Machine Company, Westfield, Mass. Winding apparatus. 2,281,747.

Cappellanti, Harry, assignor of one-third to F. E. Christopher and one-third to P. S. Davis, both of Morgantown, W. Va. Debris separator for coal washing apparatus. 2,281,827; May 5.

Cardell, George A. (See Montgomery, D. H., and Cardell.)

Carlson, Ora E., et al. (See Kogl, Frank, assignor.)

Carlson, Walter H., et al. (See Kogl, Frank, assignor.)

Carney, Samuel C., Bartlesville, Okla., assignor to Phillips Petroleum Company. Equipment for storing volatile liquids. 2,281,748; May 5.

Carpenter, Martin L. (See Collins, E. W., and Carpenter.)

Carrier, Hermenegilde, Amesbury, Mass. Propelling and steering device. 2,281,915; May 5.

Carson, William, Vancouver, British Columbia, Canada. Auto direction signal. 2,281,674; May 5.

Carter, Ray E., assignor to Unit Rig & Equipment Company, Tulsa, Okla. Clutch. 2,282,143; May 5.

Cartier, Inc. (See Pujol, Albert J., assignor.)

Cassidy, Edward E., Washington, D. C. Daylight loading film receptacle. 2,282,117.

Castiglia, Biagis, assignor to Wheel Aligning Necessities, Inc., New York, N. Y. Knee action compensator. 2,281,555; May 5.

Catlett, James T., Scotia, N. Y., assignor to General Electric Company. Welding apparatus. 1,282,031; May 5.

Catlett, James T., Scotia, N. Y., assignor to General Electric Company. Seam welding. 2,282,032; May 5.

Cavanagh, John F., assignor to Guy H. Burt, Providence, R. I. Lamp socket. 2,282,281; May 5.

Celanese Corporation of America. (See Whitehead, William, assignor.)

Celotex Corporation, The. (See Sorensen, Louis N., assignor.)

Central Aircraft Corporation. (See Burnelli, Vincent J., assignor.)

Chain Belt Company. (See Ball, Charles F., assignor.)

Chain Belt Company. (See Klaucke, Hermann, assignor.)

Chalman, Frank E. (See Wright, Archie H., assignor.)

Chamberlain Corporation. (See Etten, Nicholas L., assignor.)

Chaplik, Jacob, et al. (See Witz, Sidney R., assignor.)

Chaplik, Louis, et al. (See Witz, Sidney R., assignor.)

Chapman, Joseph, et al. (See Cobbs, J. J., and Chapman.)

Chase, Arthur H., and J. J. Talcott, Washington, D. C. Automatic brake. 2,281,556; May 5.

Chase Brass & Copper Co. (See Gazey, William J., assignor.)

Chase Brass & Copper Co., Incorporated. (See Pope, Elton A., assignor.)

Chaslyn Company, The. (See Linebarger, Charles E., assignor.)

Checot, Vladimir L., assignor to The Atlantic Refining Company, Philadelphia, Pa. Treatment of hydrocarbon oils. 2,282,033; May 5.

Cherry-Burrell Corporation. (See Dalzell, Charles B., assignor.)

Chester, Bernard. (See Glassberg, M., and Chester.)

Chevrier, Maxine, Harrisville, N. Y. Paper stock machine. 2,281,749; May 5.

Christensen, Carl J., and L. P. Shepherd, Toledo, Ohio. Dispensing container. 2,282,034; May 5.

Christensen, Carl J., and L. P. Shepherd, Toledo, Ohio. Dispensing container. 2,282,035; May 5.

Christenson, Frank, Jamaica Estates, N. Y. Heat insulating lining. 8,282,293; May 5.

Christopher, Frank, et al. (See Cappellanti, Harry, assignor.)

Chrysler Corporation. (See Williams, Burdell S., assignor.)

Churchill Machine Tool Company Limited, The. (See Asbridge, Harry H., assignor.)

Ciba Pharmaceutical Products, Incorporated. (See Ruzicka, Leopold, assignor.)

Cincinnati Ball Crank Company, The. (See Woelfer, Frank C., Jr., assignor.)

Cincinnati Grinders Incorporated. (See Graf, Andrew J., assignor.)

Cinelli, Louis. (See Moddes, E. J., and Cinelli.)

Clark, Genevieve, et al. (See Kogl, Frank, assignor.)

Clark, J. R., Company, The. (See Place, Lee W., assignor.)

Clarkson, Ralph P., Milford, Conn. Rail fastening. 2,281,750; May 5.

Claytor, Edward M., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Overdrive control system. 2,281,916; May 5.

Clear Bed Super-Pinker Corporation. (See Glassberg, M., and Chester, assignors.)

Cloud, Raymond T., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Seismic wave generation apparatus. 2,281,751; May 5.

Cobbs, John J., Roanoke, and J. Chapman, Catawba, assignors of two-thirds to J. J. Cobbs, Roanoke, and one-third to J. Chapman, Catawba, Va. Cigarette case. 2,282,036; May 5.

Cobbs, John J., et al. (See Cobbs, J. J., and Chapman, assignors.)

Coey, John S., assignor to Hooker Electrochemical Company, Niagara Falls, N. Y. Improving the color of caustic alkali solutions. 2,282,294; May 5.

Cole, Cawthern C., Whittier, Calif. Gun perforator. 2,281,870; May 5.

Cole, Paul M. (See Barrans, W. T., and Cole.)

Collection Recorder Company. (See Haynes, James E., assignor.)

Collins, Edward W., and M. L. Carpenter, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Armature assembling machine. 2,281,917; May 5.

Colt's Patent Fire Arms Manufacturing Company. (See Messler, Allan H., assignor.)

Condit, Paul A., assignor to Cooper-Bessemer Corporation, Mount Vernon, Ohio. Hydraulic speed control system for prime movers. 2,281,675; May 5.

Connolly, Gerald C., Baton Rouge, La., assignor to Standard Oil Development Company. Cracking oil using synthetic catalytic compositions. 2,281,919; May 5.

Consolidated Edison Company of New York, Inc. (See Xenis, Constantine P., assignor.)

Constant, Thomas D., and C. B. Boulton, assignors to Pipe Cleaning Company, Inc., Oklahoma City, Okla. Pipe cleaning tool. 2,281,918; May 5.

Continental Carbon, Inc. (See Jira, Joseph W., assignor.)

Cook, Elmer W., New York, N. Y., assignor to Tide Water Associated Oil Company, Bayonne, N. J. Turbine oil. 2,281,676; May 5.

Coons, Curtis C. (See Bixler, M. E., and Coons.)

Coons, Curtis C., North Canton, and W. H. Kitto, Canton, assignors to The Hoover Company, North Canton, Ohio. Refrigeration. 2,281,828; May 5.

Coons, Curtis C., North Canton, and W. H. Kitto, Canton, assignors to The Hoover Company, North Canton, Ohio. Refrigeration. 2,281,829; May 5.

Cooper-Bessemer Corporation. (See Condit, Paul A., assignor.)

Cooper, Robert C. (See Harrower, P., Cooper, and Walters.)

Cooper Oven Thermometer Company, The. (See Whittier, Elmer S., assignor.)
Copeman Laboratories Company. (See Copeman, L. G., and Bartell, assignors.)
Copeman, Lloyd G., Flint, and F. E. Bartel, Ann Arbor, assignors to Copeman Laboratories Company, Flint, Mich. Treating textile fabrics and the product thereof. 2,281,830; May 5.
Corby, Joseph, Jr., assignor to Kingsbury Machine Works, Inc., Philadelphia, Pa. Thrust measuring device. 2,281,871; May 5.
Corn Products Refining Company. (See Swallen, L. C., and Reintjes, assignors.)
Corson, Floyd W., Cleveland, Ohio. Key vise. 2,282,165; May 5.
Cottrell, Robert B., assignor to American Steel Foundries, Chicago, Ill. Car truck. 2,282,166; May 5.
Courvelle, Sidney, Alvin, Tex. Fishing bob. 2,281,831; May 5.
Craig, W E. (See Hester, W. F., and Craig.)
Craig, W E, Philadelphia, and W. F. Hester, Drexel Hill, assignors to Röhm & Haas Company, Philadelphia, Pa. Thiocyanomethyl derivatives of phenyl ethers. 2,281,677; May 5.
Cravotta, Samuel R., assignor of forty-five per cent to J. Sages, Uniontown, Pa. Barber chair attachment. 2,281,832; May 5.
Cressaty, George M. (See Cullman, Philipp A., assignor.)
Critoph, David I. (See Osterberg, H., and Critoph.)
Crocker, Oliver E. (See Ford, David O., assignor.)
Crosby, Stephen A., Jackson Heights, assignor to Speed Products Company, New York, N. Y. Stapling machine. 2,281,557; May 5.
Cross, Bert S., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Manufacture of abrasive articles and apparatus therefor. 2,281,558; May 5.
Crowley, Daniel J., Grosse Pointe, Mich. Combined lamp and radio receiving set. 2,281,920; May 5.
Crown Cork & Seal Company. (See Calleson, A., and Calleson, assignors.)
Crown Cork & Seal Company. (See Gladfelter, W. I., and Bryant, assignors.)
Crown Cork & Seal Company. (See Newton, George W., assignor.)
Cullman, Philipp A., Flushing, assignor to G. M. Cressaty, New York, N. Y. Flashlight. 2,282,167; May 5.
Cumming, James M. (See MacDonald, H. G., and Cumming.)
Cumming, James M., Turtle Creek, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit breaker. 2,281,752; May 5.
Cunnington, George R., Grosse Pointe Park, Mich., assignor to National Automotive Fibres, Inc. Decorative upholstery fabric. 2,282,168; May 5.
Cunnington, George R., Grosse Pointe Park, Mich., assignor to National Automotive Fibres, Inc. Decorated fabric. 2,282,169; May 5.
Cunnington, George R., Grosse Pointe Park, Mich., assignor to National Automotive Fibres, Inc. Upholstery. 2,282,170; May 5.
Cuozzo, Michele, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Manufacture of ribbed insoles. 2,281,678; May 5.
Curtis, Frank W., assignor to Van Norman Machine Tool Company, Springfield, Mass. Tumble change gear mechanism. 2,281,921; May 5.
Cutler-Hammer, Inc. (See Jones, Jesse E., assignor.)
Dahl, Arthur C. (See Bennett, L. E., and Dahl.)
Dahle, Joseph, Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Producing granular precipitates from colloidal solutions. 2,282,037; May 5.
Dake, Henry F. (See Wulle, W. A., and Dake.)
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Urea-Haloacylated urea-aldehyde condensation products. 2,281,559; May 5.
Dalkowitz, Godfrey, assignor to American Safety Razor Corporation, Brooklyn, N. Y. Motor. 2,281,753; May 5.
Dalkowitz, Godfrey, assignor to American Safety Razor Corporation, Brooklyn, N. Y. Shaving device. 2,281,922; May 5.
Dalzell, Charles B., Little Falls, N. Y., assignor to Cherry-Burrell Corporation, Chicago, Ill. Heat exchanger. 2,281,754; May 5.
Daneman, Alfred S. (See Barsky, G., and Strauss, assignors.)
Daniel, Lawrence M., Spokane, Wash. Wheel straightener. 2,281,118; May 5.
Darling, Harry R., assignor to Eastman Kodak Company, Rochester, N. Y. Film reel. 2,282,119; May 5.
Davenport, Granger, Verona, assignor to Gould & Eberhardt, Newark, N. J. Variable trimmer cam. 2,282,038; May 5.
Davis, George C., Jr., assignor to Threads, Incorporated, Gastonia, N. C. Coating thread. 2,281,679; May 5.
Davis, G. W., Corporation. (See Davis, Walter C., assignor.)
Davis, Philip S., et al. (See Cappellanti, Harry, assignor.)
Davis, Walter C., assignor to G. W. Davis Corporation, Richmond, Ind. Lawn mower package. 2,281,923; May 5.
Dean, Albert G., Narberth, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Draft gear. 2,282,171; May 5.
De Canio, Dominick M., assignor to Unviersal Form Clamp Co., Chicago, Ill. Form wall tie. 2,281,833; May 5.
De Frees, Nicholas W., Hastings, Minn., assignor to H. D. Hudson Manufacturing Company, Chicago, Ill. Dispensing device. 2,282,172; May 5.
Degenhardt, Hope H., executrix, et al. (See Hawley, Charles G., assignor.)
Delphos Bending Company, The. (See Peltier, Leslie, assignor.)
De Ment, Robert R., Cleveland Heights, Ohio. Church truck. 2,281,680; May 5.
Demeulenaere, Marcel, Brussels, Belgium. Cash register. 2,282,120; May 5.
Dennis, W. J., & Company. (See Balousek, William E., assignor.)
Denver Chemical Manufacturing Company, The. (See Galat, Alexander, assignor.)
De Simó, Martin, Piedmont, and F. M. McMillan, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Executing reactions with the aid of fugitive catalysts. 2,281,924; May 5.
Detroit Lubricator Company. (See Eggleston, Lewis W., assignor.)
Deutsche Hollerith Maschinen Gesellschaft m. b. H. (See Maul, Michael, assignor.)
Dever, Patrick J. (See Dever, Roger J. and P. J.)
Dever, Roger J. and P. J., Freeland, Pa. Draft regulator for chimneys. 2,281,925; May 5.
Dew, Walter A., and B. H. Mackey, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Drying of smokeless powder. 2,281,560; May 5.
Diamond, Hyman. (See von Fuchs, G. H., and Diamond.)
Dick, A. B., Company. (See Brasseur, Ernest J., assignor.)
Dictaphone Corporation. (See Beard, T. H., and Lucarelle, assignors.)
Diederichs, E. C. R., Bourgoin, France. Weft control device for weaving looms. 2,281,561; May 5.
Dietz, Karl, Cronberg, and F. Privinsky, Hofheim, Germany, assignors, by mesne assignments, to Pen-Chlor, Incorporated, Philadelphia, Pa. Self-hardening cement for spark plugs. 2,281,834; May 5.
Dike, Theodore W., and H. Galber, assignors to I. F. Laucks, Inc., Seattle, Wash. Plywood. 2,282,177; May 5.
Distillation Products Inc. (See Hickman, K. C. D., and Baxter, assignors.)
Di Toro, Michael J., East Orange, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Governor. 2,282,178; May 5.
Ditto, Marvin W., and W. P. Torrington, assignors to Emulsions Process Corporation, New York, N. Y. Fuel gas production. 2,281,562; May 5.
Dollison, John W., Newcomerstown, Ohio. Adjustable supporting device. 2,281,835; May 5.
Donnell, Lloyd H., Chicago, Ill., assignor, by mesne assignments, to Wingfoot Corporation, Akron, Ohio. Lightweight girder. 2,282,173; May 5.
Donnelly, Alexander, Brooklyn, N. Y. Pajamas. 2,281,872; May 5.
Doogan, Edgar A., assignor to Hussmann-Ligonier Company, St. Louis, Mo. Indicating cylinder. 2,282,039; May 5.
Doran, James A., Providence, R. I. Ignition coil. 2,282,040; May 5.
Double, Plummer E. (See Langmaid, C. T., and Double.)
Douglas Aircraft Company. (See Klemperer, Wolfgang B., assignor.)
Dow Chemical Company, The. (See Heerema, J., and Owens, assignors.)
Dow Chemical Company, The. (See Hunter, R. M., Otis, and Blue, assignors.)
Dow Chemical Company, The. (See Peake, John S., assignor.)
Dow Chemical Company, The. (See Robinson, Harold A., assignor.)
Dow Chemical Company, The. (See Stone, John B., assignor, and Teplitz.)
Drake, Frederick H., assignor to Aircraft Radio Corporation, Boonton, N. J. Condenser. 2,282,215; May 5.
Draper, Charles T., Cleveland Heights, assignor to The Draper Manufacturing Company, Cleveland, Ohio. Container closure construction. 2,282,041; May 5.
Draper Manufacturing Company, The. (See Draper, Charles T., assignor.)
Dufault, Homer D., Easthampton, assignor to Holyoke Heater Company, Holyoke, Mass. Pilot for gas ranges. 2,281,563; May 5.
Dunning, Edgar C., Detroit, Mich. Combined accelerator and brake. 2,281,755; May 5.
Du Pont, E. I., de Nemours & Company. (See Bren, B. C., Hopkins, and Wilder, assignors.)
Du Pont, E. I., de Nemours & Company. (See Dew, W. A., and Mackey, assignors.)
Du Pont, E. I., de Nemours & Company. (See Ellingboe, E. K., and Salzberg, assignors.)
Du Pont, E. I., de Nemours & Company. (See Grace, Worthington T., assignor.)
Du Pont, E. I., de Nemours & Company. (See Hanford, William E., assignor.)

Du Pont, E. I., de Nemours & Company. (See Heckert, Winfield W., assignor.)
Du Pont, E. I., de Nemours & Company. (See Hopkins, J. H., and Wilder, assignors.)
Du Pont, E. I., de Nemours & Company. (See Mitchell, James A., assignor.)
Du Pont, E. I., de Nemours & Company. (See Sloan, Clifford K., assignor.)
Du Pont, E. I., de Nemours and Company. (See Ufer, H., and Weickmann, assignors.)
Durfee, Benjamin M., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Multiplying machine. 2,282,121; May 5.
Durlacher & Company. (See Otnow, Israel, assignor.)
Eastman Kodak Company. (See Brooker, L. G. S., and White, assignors.)
Eastman Kodak Company. (See Brooker, Leslie G. S., assignor.)
Eastman Kodak Company. (See Darling, Harry R., assignor.)
Eastman Kodak Company. (See Fairbanks, Henry N., assignor.)
Eastman Kodak Company. (See Helbing, G. O., and Lechleitner, assignors.)
Eastman Kodak Company. (See Lowe, Wesley G., assignor.)
Eastman Kodak Company. (See Merriman, William E., assignor.)
Eastman Kodak Company. (See Mihalyi, Joseph, assignor.)
Eastman Kodak Company. (See Rittman, Adolph C., assignor.)
Eastman Kodak Company. (See Russell J., and Stauffer, assignors.)
Eastman Kodak Company. (See Sheppard, S. E., and Vanselow, assignors.)
Eastman Kodak Company. (See Talbot, Ralph H., assignor.)
Eastman Kodak Company. (See Wittel, Otto, assignor.)
Easy Washing Machine Corporation. (See Litle, Thomas J., Jr., assignor.)
Easy Washing Machine Corporation. (See Schultze, Helmuth A., assignor.)
Eaton, George R., Oak Park, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Automatic telephone apparatus and circuits. 2,281,564; May 5.
Ebelhare, William H., Nichols, Conn., assignor to Magazine Repeating Razor Company, New York, N. Y. Razor. 2,281,926; May 5.
Eckel, Arthur F., Chicago, Ill. Sign and reflector therefor. 2,281,565; May 5.
Edgar, John, assignor to Barber-Colman Company, Rockford, Ill. Work holder for form tools. 2,281,681; May 5.
Edison, Thomas A., Incorporated. (See Di Toro, Michael J., assignor.)
Eggleston, Lewis W., Davison, assignor to Detroit Lubricator Company, Detroit, Mich. Air vent valve. 2,281,566; May 5.
Eichenberg, Robert. (See Ransone, K., and Eichenberg.)
Ekstrom, Gustaf H., assignor to Sundstrand Machine Tool Co., Rockford, Ill. Rubbing machine. 2,282,043; May 5.
Electric & Musical Industries Limited. (See Green, Eric A., assignor.)
Electromaster, Inc. (See Lanigan, Alfred E., assignor.)
Ellingboe, Ellsworth K., and P. L. Salzberg, Newcastle County, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Composition and preparing same. 2,281,567; May 5.
Else, Harry D., and C. G. Veinott, Lima, Ohio, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Resilient mounting for motors. 2,282,174; May 5.
Emerson, Roy W., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Welding flux. 2,282,175; May 5.
Emulsions Process Corporation. (See Ditto, M. W., and Torrington, assignors.)
Engel, William, Clayton, assignor to Universal-Engel Paper Box Co., Inc., St. Louis, Mo. Container. 2,281,836; May 5.
Engelhardt, Carl F., Yeadon, assignor to Wilkening Manufacturing Company, Philadelphia, Pa. Piston ring. 2,281,873; May 5.
England, Harry F., Prairie City, Oreg. Pump and bearing construction. 2,281,682; May 5.
Enos, John P., Union, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Hemming attachment for sewing machines. 2,282,042; May 5.
Erismann, Gérard, Neueville, Switzerland. Shock absorber for the balance staff of watches. 2,282,122; May 5.
Essig, Sanford F., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Mosaic screen. 2,282,123; May 5.
Estey, Roger S. (See Bennett, A. H., and Estey.)
Etten, Nicholas L., assignor to Chamberlain Corporation, Waterloo, Iowa. Roll wringer mechanism. 2,281,683; May 5.
Ex-Cell-O Corporation. (See Seyferth, H. N., and Snader, assignors.)
Ex-Cell-O Corporation. (See Snader, Ira J., assignor.)
Fabristeel Products, Inc. (See Langmaid, C. T., and Double, assignors.)
Fahrenwald, Frank A., Chicago, Ill., deceased, Marjorie P. Fahrenwald, executrix. Production of iron from iron oxide. 2,282,124; May 5.
Fahrenwald, Frank A., Chicago, Ill., deceased, Marjorie P. Fahrenwald, executrix. Production of sponge iron. 2,282,144; May 5.
Fahrenwald, Marjorie P., executrix. (See Fahrenwald, Frank A., deceased.)
Fallor, Charles W., Forest Hills, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling apparatus. 2,281,929; May 5.
Fairbanks, Henry N., assignor to Eastman Kodak Company, Rochester, N. Y. Indicating means and magazine ejector for film handling apparatus. 2,282,044; May 5.
Fairbanks, Morse & Co. (See Brauer, Otto H., assignor.)
Fairbanks, Morse & Co. (See Hadley, Harlan A., assignor.)
Farnsworth Television and Radio Corporation. (See Essig, Sanford F., assignor.)
Faulkner, William G., Kirkland Lake, Ontario, Canada. Clothesline shield. 2,282,216; May 5.
Fay, Eugene, and T. W. Allsworth, assignors to The American Rolling Mill Company, Middletown, Ohio. Method and apparatus for forming helical lock seam pipe. 2,282,176; May 5.
Field, Malcolm C. (See Scott, T. R., and Field.)
Field, O. C., Gasoline Corporation. (See Thelen, Edmund, assignor.)
Fijux, George F, Laurelton, Long Island, N. Y. Furniture wall guard. 2,281,684; May 5.
Firehammer, Welton E., assignor to Wisconsin Heating and Draft Control Company, Oshkosh, Wis, Furnace control. 2,282,125; May 5.
Fischer, Albert C., Chicago, Ill. Seed tape. 2,281,927; May 5.
Fischer, Hans, Yonkers, assignor to Lanova Corporation, Long Island City, N. Y. Injection engine. 2,281,685; May 5.
Fisher, Clayton F., Spencer, and E. E. Franks, Jr., Worcester, assignors to Sleeper & Hartley, Inc., Worcester, Mass. Wire cutting machine. 2,281,756; May 5.
Fisher, Herman G., assignor to Fisher-Price Toys, Inc., East Aurora, N. Y. Action toy 2,281,757; May 5.
Fisher, Herman, G., East Aurora, assignor to Fisher-Price Toys, Inc., East Aurora, N. Y. Action toy. 2,282,179; May 5.
Fisher-Price Toys, Inc. (See Fisher, Herman G., assignor.)
Fleischer, Max, Miami Beach, Fla. View finder. 2,282,045; May 5.
Flesh, Alfred L, assignor to The Atlas Underwear Company, Piqua, Ohio. Undergarment. 2,282,217; May 5.
Flesh, Alfred L., assignor to The Atlas Underwear Company, Piqua, Ohio. Garment. 2,282,218; May 5.
Fletcher, Dean, Wildomar, Calif. Quick shift rooter. 2,281,928; May 5.
Flygare, Carl G., and S. S. Mader, assignors to Norton Company, Worcester, Mass. Cylindrical grinding machine. 2,281,930; May 5.
Folmer Graflex Corporation, The. (See Hineline, Edson S., assignor.)
Folmer Graflex Corporation, The (See Olson, Harold T., assignor.)
Folmer Graflex Corporation. (See Steiner, Oscar, assignor.)
Folmer Graflex Corporation, The. (See Whitman, Vernon E., assignor.)
Ford, David O., assignor of one-tenth to Oliver E. Crocker, Petersburg Va. Frosting lucite. 2,281,837; May 5.
Ford Motor Company. (See Kramer, Clarence F., assignor.)
Fossa, Joseph, Salem, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Lacing machine. 2,281,686; May 5.
Foster, Edwin E., assignor to Majix-Ironers, Inc., Austin, Tex. Flat plate ironer. 2,281,568; May 5.
Foster Machine Company. (See Campbell, Lester, assignor.)
Fowler, Ralph R., Oak Park, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Relay. 2,281,687. May 5.
Frank, Gabriel, Budapest, Hungary, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. X-ray apparatus. 2,281,931; May 5.
Franks, Edward E., Jr. (See Fisher, C. F., and Franks.)
Freer, Phelps M., Detroit, Mich. Friction coupling. 2,281,932; May 5.
Fries, Wilhelm, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Drive for encased switch devices. 2,282,219; May 5.
Fritsche, Otto E., Hasbrouck Heights, assignor to Alfred Hofmann, Inc., West New York, N. J. Flat knitting hosiery machine. 2,281,569; May 5.
Fuhrmann, Karl P., Portsmouth, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va. Making containers. 2,281,570; May 5.
Funk, James M., Ottawa, Ill., assignor to Lonergan Manufacturing Company, Albion, Mich. Air conditioning and circulating apparatus. 2,281,874; May 5.

Gabbert, Hugh W., assignor to The American Laundry Machinery Company, Norwood, Ohio. Folding and stacking machine. 2,282,126; May 5.
Gabbert, Hugh W., assignor to The American Laundry Machinery Company, Norwood, Ohio. Stacking machine. 2,282,127; May 5.
Gage, Anna L., St. Paul Minn. Head band for use in connection with bathing caps. 2,282,220; May 5.
Gage, Arthur G., assignor, by mesne assignments, to Henry T. Gage, Bell, Calif. Differential pump. 2,281,933; May 5.
Gage, Edward G., Brooklyn, assignor of two-thirds to L. Ottinger, New York, N. Y. Safety circuits for thermionic apparatus. 2,281,571; May 5.
Gage, Edward G., Brooklyn, assignor of two-thirds to L. Ottinger, New York, N. Y. Safety circuits for electronic apparatus. 2,281,572; May 5.
Gage, Henry T. (See Gage, Arthur G., assignor.)
Galat, Alexander, Bronx, assignor to The Denver Chemical Manufacturing Company, New York, N. Y. Dry reagent for testing. 2,281,758; May 5.
Galber, Harry. (See Dike, T. W., and Galber.)
Gard, Robert A., Charlton City, Mass. Mule spinning machine. 2,281,969; May 5.
Gartrell, Robert D. (See Keys, W. C., Younglove, Gartrell and Hambidge.)
Gasoline Products Company, Inc. (See Keith, P. C., Jr., and Roberts, assignors.)
Gaylord Bros., Inc. (See Grant, Chester, assignor.)
Gazey, William J., assignor to Chase Brass & Copper Co., Incorporated, Waterbury, Conn. Method and apparatus for making branch-fitting blanks. 2,281,573; May 5.
Gear Processing, Inc. (See Lambrix, Maurice A., assignor.)
Geiger, Max, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Electrical impulse segregation circuits. 2,281,934; May 5.
Gelder, Royal W., Greeley, Colo., assignor to Paul Bechtner, Chicago, Ill. Sewage treatment. 2,281,759; May 5.
General Aniline & Film Corporation. (See Kranzlein, Paul, assignor.)
General Aniline & Film Corporation. (See Schlichting, O., and Hrubesch, assignors.)
General Aniline & Film Corporation. (See Schussler, H., and Retter, assignors.)
General Aniline & Film Corporation. (See Stiasny, E., and Schuette, assignors.)
General Aniline & Film Corporation. (See Zerweck, W., Schutz and Hechtenberg, assignors.)
General Chemical Company. (See Shinn, J. V., and Michener, assignors.)
General Chemical Company. (See Towner, William B., assignor.)
General Electric Company. (See Alexander, George, assignor.)
General Electric Company. (See Catlett, James T., assignor.)
General Electric Company. (See D'Alello, Gaetano F., assignor.)
General Electric Company. (See Krautwig, Frans, assignor.)
General Electric Company. (See Newell, Heber L., assignor.)
General Electric Company. (See Pieplow, Hanswerner, assignor.)
General Electric Company. (See Propernick, August A., assignor.)
General Electric Company. (See Smith, Robert W., assignor.)
General Electric Company. (See Underwood, James W., assignor.)
General Electric Company Limited. (See Puckette, Charles C., assignor.)
General Electric Company. (See Weed, James M., assignor.)
General Motors Corporation. (See Claytor, Edward M., assignor.)
General Motors Corporation. (See Collins, E. W., and Carpenter, assignors.)
General Motors Corporation. (See Smith, Harry F., assignor.)
General Motors Corporation. (See Young, Otto W., assignor.)
Geser, Josefine R., Zurich, Switzerland. Ribbon attachment for typewriters for making duplicate copies. 2,281,688; May 5.
Gibbons, Henry B., Stratford, Conn., assignor, by mesne assignments, to Wingfoot Corporation, Akron, Ohio. Girder. 2,282,221; May 5.
Gilbert, Alfred G., South Acton, assignor to Reece Folding Machine Company, East Cambridge, Mass. Infolding of vest pocket welts and the like. 2,281,970; May 5.
Gille, Willis H., St. Paul, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Temperature control system. 2,282,180; May 5.
Girdler Corporation, The. (See Miller, B. DeH., and Bevarly, assignors.)
Gladfelter, Willie I. and A. T. Bryant, Philadelphia, Pa., assignors to Crown Cork & Seal Company, Inc., Baltimore, Md. Curling machine. 2,281,574; May 5.
Glaskowsky, Nicholas A., assignor to Stanley Home Products, Inc., Westfield, Mass. Deodorizing device. 2,281,760; May 5.
Glassberg, Morris and B. Chester, assignors to Clear Bead Super-Pinker Corporation, Kingston, N. Y. Pinking machine. 2,281,575; May 5.
Glassberg, Morris, assignor of one-half to J. E. Honig, Kingston, N. Y. Pinking machine. 2,281,761; May 5.
Gleason, Charles O. (See Loughner, J. N., and Gleason.)
Gleissner, Paul, Dusseldorf-Oberkassel, Germany. Power transmitting mechanism. 2,281,875; May 5.
Glidden Company, The. (See Jullan, P. L., and Oberg, assignors.)
Goddard, Robert H., Roswell, N. Mex. Fluid cooled bearing. 2,281,971; May 5.
Goeske, Charles J., Henryetta, Okla. Motor vehicle wheel. 2,282,222; May 5.
Goff, Harold E., assignor to Watson-Williams Manufacturing Company, Millbury, Mass. Self-threading shuttle eye. 2,281,972; May 5.
Goldsmith, Alfred N., New York, N. Y., assignor to Radio Corporation of America. Multiplex signaling system. 2,282,046; May 5.
Goodenough, Ernest F. (See Rust, N. M., Brailsford and Goodenough.)
Gordon, Albert L. (See Smith, Harvey E., assignor.)
Gordon, M. N. (See Johnson, Samuel C., assignor.)
Gould & Eberhardt. (See Davenport, Granger, assignor.)
Grace, Worthington T., Upper Darby, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing sulphur trioxide and oxygen. 2,281,762; May 5.
Graesser, David A., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Feed regulating mechanism. 2,282,047; May 5.
Graesser, David A. (See Marsac, L. C., and Graesser.)
Graf, Andrew J., Norwood, assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Headstock for machine tools. 2,282,048; May 5.
Grant, Chester, assignor to Gaylord Bros., Inc., Syracuse, N. Y. Card printing machine. 2,281,763; May 5.
Graves, Walter. (See Niles, R. W., Bethke and Graves.)
Green, Eric A., Southall, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England. Frequency controlling system. 2,281,876; May 5.
Green, Frank A., Queens Village, N. Y. Cutting stick. 2,281,877; May 5.
Green, Frederick L. (See Merrill, P. D., and Green.)
Gubbins, James B., Pittsburg, Calif. Game. 2,282,128; May 5.
Guinzburg, Roland H., Montrose, assignor to I. B. Kleinert Rubber Company, New York, N. Y. Antiseptic fabric. 2,282,181; May 5.
Gulf Research & Development Company. (See Ritzmann, Otto F., assignor.)
Gulf Research & Development Company. (See Stone, J. B., and Teplitz, assignors.)
Gulf Research & Development Company. (See Vacquier, Victor V., assignor.)
Gulliksen, Finn H., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Amplifier circuit. 2,282,182; May 5.
Haas, Stephen. (See Snyder, Robert H., assignor.)
Hadfield, Bertram M., Middlesex, England, assignor to Associated Electric Laboratories Inc., Chicago, Ill. Alternating current signaling system. 2,282,129; May 5.
Hadfield, Bertram M., Harrow Weald, England, assignor to Associated Electric Laboratories Inc., Chicago, Ill. Thermionic generator of alternating current. 2,282,130; May 5.
Hadfield, Bertram M., Harrow Weald, England, assignor to Associated Electric Laboratories Inc., Chicago, Ill. Electrical signaling system. 2,282,131; May 5.
Hadley, Harlan A., River Edge, N. J., assignor to Fairbanks, Morse & Co., Chicago, Ill. Beam locking device. 2,281,838; May 5.
Hagerty, Andrew T., Elkhart, Ind., assignor to The Adlake Company. Electric lantern. 2,281,839; May 5.
Haggart, John C., Jr., Westfield, N. J., assignor to Signal Service Corporation. Sinking posts. 2,282,049; May 5.
Halton, Evanda P., and G. L. Ledingham, Fort Worth, Tex. Electrical timing mechanism. 2,282,132; May 5.
Hambidge, Richard H. (See Keys, W. C., Younglove, Gartrell and Hambidge.)
Hamilton, Clark S., San Diego, Calif. Air deflector for motor vehicles. 2,281,840; May 5.
Hamilton, Wallace, Plainfield, N. J. Loom. 2,282,223; May 5.
Hamlen, Earle K., assignor to The Robinson Clay Product Company, Akron, Ohio. Method and apparatus for manufacturing pipe. 2,282,282; May 5.
Handy, Arthur E., Lynbrook, and C. J. Kroepel, Manhasset, assignors to Otis Elevator Company, New York, N. Y. Moving stairway. 2,282,050; May 5.
Hanford, William E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polyamides and making same. 2,281,576; May 5.
Hanke, Edwin W. F. (See Beeman, Lyle.)
Hanke, Edwin W. F., Whitefish Bay, assignor to Allen-Bradley Company, Milwaukee, Wis. Pressure-responsive switch. 2,281,764; May 5.
Hanna, William T., Cincinnati, Ohio. Stoking mechanism. 2,281,765; May 5.
Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Oscillation generation and control. 2,282,295; May 5.

Hansen, Merrill E., assignor to American Anode Inc., Akron, Ohio. Splicing rubber. 2,281,976; May 5.
Hansen, William W., and R. H. Varian, assignors to The Board of Trustees of The Leland Stanford Junior University, Stanford University, Calif. Modulation system. 2,281,935; May 5.
Harbison-Walker Refractories Company. (See Rowe, Andrew E., assignor.)
Hare, Terence G., Ypsilanti, Mich. Valve structure. 2,281,689; May 5.
Harman, David B. (See Olsen, Eric H., assignor.)
Harris, Emanuel, New York, N. Y. Adjustable neckband for shampoo and like capes. 2,282,183; May 5.
Harris-Seybold-Potter Company. (See Harrold, Charles W., assignor.)
Harrold, Charles W., University Heights, assignor to Harris-Seybold-Potter Company, Cleveland, Ohio. Sheet feeder. 2,282,224; May 5.
Harrower, Peter, R. C. Cooper and O. H. Walters, Runcorn, England, assignors to Imperial Chemical Industries Limited. Manufacture of hydrogen peroxide. 2,282,184; May 5.
Hartford National Bank and Trust Company. (See Frank, Gabriel, assignor.)
Harwick, Henry K. (See Mealing, K. W., and Harwick.)
Havill, Frederick S., Halifax, Nova Scotia, Canada. Locomotive tire sander. 2,282,185; May 5.
Hawley, Charles G., deceased, Chicago, Ill., H. H. Degenhardt and V. T. Hawley, executrices, assignors, by mesne assignments, to Hawley Engineering Corporation, Cleveland, Ohio. Sewage stabilizer. 2,282,225; May 5.
Hawley, Paul F., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Logging of permeable formations traversed by wells. 2,281,766; May 5.
Hawley, Virginia T., executrix, et al. (See Hawley, Charles G., assignor.)
Haynes, James E., Boston, assignor to Collection Recorder Company, Andover, Mass. Collector's recorder. 2,281,577; May 5.
Hazel-Atlas Glass Company. (See Williams, John J., assignor.)
Healy, Patrick J., Detroit, Mich. Swivel connection. 2,281,973; May 5.
Hechtenberg, Wilhelm. (See Zerweck, W., Schutz, and Hechtberg.)
Heckert, Winfield W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Pump. 2,281,767; May 5.
Heddon, Charles, assignor to James Heddon's Sons, Dowagiac, Mich. Multiple plug bait. 2,281,578; May 5.
Heddon's, James, Sons. (See Heddon, Charles, assignor.)
Hedlund, William T., New Rochelle, assignor to Servel, Inc., New York, N. Y. Refrigerator. 2,281,690; May 5.
Heerema, Jacob, and J. S. Owens, assignors to The Dow Chemical Company, Midland, Mich. Photopolymerization of vinyl halides. 2,281,768; May 5.
Heger, Joseph J., assignor to Universal X-Ray Products, Inc., Chicago, Ill. Valve tube and casing therefor. 2,281,878; May 5.
Helbing, Grayson O., and A. E. Lechleitner, assignors to Eastman Kodak Company, Rochester, N. Y. Combined ejector and indicator for film handling apparatus. 2,282,051; May 5.
Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Testing device for determining mass distribution. 2,282,052; May 5.
Henninger, Andrew F., Jr., and G. D. Henninger, Chicago, Ill. Manufacture of gaseous conduction lamps. 2,281,579; May 5.
Henninger, George D. (See Henninger, Andrew F., Jr., and G. D.)
Henninger, Philip E., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Resistance welding electrode and method. 2,282,186; May 5.
Hensel, Franz E., Wilkinsburg, and E. I. Larsen, Turtle Creek, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Heat treating copper alloys. 2,281,691; May 5.
Henter, Mathias, Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Dynamo-electric machine. 2,282,283; May 5.
Herold, James L., and W. J. Nekola, St. Louis, and F. W. Wehmiller, Ladue, assignors to Barry-Wehmiller Machinery Company, St. Louis, Mo. Pasteurizing liquids in containers. 2,282,187; May 5.
Herr, Joseph S., Nottingham, Pa. Molasses mixing tank. 2,281,974; May 5.
Hester, William F. (See Craig, W. E., and Hester.)
Hester, William F., Drexel Hill, and W. E. Craig, assignors to Röhm & Haas Company, Philadelphia, Pa. Thiocyanates of phenyl ether. 2,281,692; May 5.
Hey, Henry W., assignor to Automatic Shifters, Inc., Richmond, Va. Gear shifting mechanism. 2,282,053; May 5.
Hickman, Kenneth C. D., and J. G. Baxter, assignor to Distillation Products Inc., Rochester, N. Y. Preservation of glyceride oils. 2,282,054; May 5.
Hill, Herman, Bridgeport, Conn., assignor to Magazine Repeating Razor Company, New York, N. Y. Blade grinding machine. 2,281,975; May 5.
Hill, Joseph H., Company. (See Byrum, Roy L., assignor.)
Hinde & Dauch Paper Company, The. (See Aquino, Salvatore A., assignor.)
Hinde & Dauch Paper Company, The. (See Larkin, Daniel A., assignor.)
Hineline, Edson S., assignor to The Folmer Graflex Corporation, Rochester, N. Y. Reflex camera. 2,282,284; May 5.
Hirsch, Rudolph, North Bergen, N. J. Smoking pipe. 2,282,055; May 5.
Hobbs, James C., Painesville, Ohio. Fluid heat exchange device. 2,281,580; May 5.
Hochriem, Gustav F., Chicago, Ill., assignor to Public Scale Company. Leveling device for scales and other objects. 2,281,769; May 5.
Hoe, R., & Co. (See Wieking, William C., assignor.)
Hoeflich, Victor T., assignor to American Merri-Lei Corporation, New York, N. Y. Toy. 2,282,056; May 5.
Hoesel, Anthony F., assignor to Peerless of America, Incorporated, Chicago, Ill. Defrosting system. 2,281,770; May 5.
Hofmann, Alfred, Inc. (See Fritsche, Otto E., assignor.)
Hollenton, Frank. (See Hollentonder, Frank.)
Hollentonder, Frank, Bridgeport, Conn., now by judicial change of name Frank Hollenton. Foldable table set. 2,282,296; May 5.
Holsclaw, Neil, Chicago, assignor of one-half to Fred E. Sudlow, Rock Island, Ill. Razor. 2,281,841; May 5.
Holst, Paul F. G., and L. R. Kirkwood, Oaklyn, N. J., assignors to Radio Corporation of America. Volume range control system. 2,281,693; May 5.
Holton & Hunkel Co. (See Brockner, Frank, assignor.)
Holyoke Heater Company. (See Dufault, Homer D., assignor.)
Honig, Joseph E. (See Glassberg, Morris, assignor.)
Honorary Advisory Council for Scientific and Industrial Research, The. (See Swales, William E., assignor.)
Hooker Electrochemical Company. (See Coey, John S., assignor.)
Hoop, John G., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Control means for industrial heat-treating furnaces. 2,282,226; May 5.
Hoover Ball & Bearing Company. (See Niles, R. W., Bethke, and Graves, assignors.)
Hoover Company, The. (See Bixler, M. E., and Coons, assignors.)
Hoover Company, The. (See Coons, C. C., and Kitto, assignors.)
Hoover Company, The. (See Pierce, Frank L., assignor.)
Hoover Company, The. (See Prince, Warren V., assignor.)
Hoover Company, The. (See Smellie, Donald G., assignor.)
Hopkins, John H. (See Bren, B. C., Hopkins, and Wilder.)
Hopkins, John H., and G. H. Wilder, Arlington, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Purification and stabilization of polyvinyl acetal resins. 2,282,057; May 5.
Hoppe, William, assignor to National Bread Wrapping Machine Co., Springfield, Mass. Loaf control for bread wrapping machines. 2,281,936; May 5.
Horne, Burchard E., Andover, assignor to Watts Regulator Company, Lawrence, Mass. Vacuum breaker. 2,282,188; May 5.
Horton, Kenneth W., Defreestville, N. Y. Supporting attachment for ladders. 2,282,133; May 5.
Horton, Reuben H., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Dining car. 2,281,581; May 5.
Houdry Process Corporation. (See Bennett, Stanton A., assignor.)
Hoza, John, Belcamp, Md. Machine for forming heel seats in the manufacture of shoes. 2,282,134; May 5.
Hrubesch, Adolf. (See Schlichting, O., and Hrubesch.)
Huber, John S., South Milwaukee, assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Manifold. 2,281,694; May 5.
Hudson, H. D., Manufacturing Company. (See De Frees, Nicholas W., assignor.)
Hug, Christian J., Highland, Ill. Chassis frame. 2,282,227; May 5.
Hunter, Ralph M., L. B. Otis, and R. D. Blue, assignors to The Dow Chemical Company, Midland, Mich. Electrolytic cell. 2,282,058; May 5.
Hussmann-Ligonier Company. (See Doogan, Edgar A., assignor.)
Imperial Chemical Industries Limited. (See Harrower, P., Cooper, and Walters, assignors.)
Imperial Knife Company. (See Mirando, Felix A., assignor.)
Independent Consulting Company. (See Ransone, K., and Eichenberg, assignors.)
Indge, Herbert S., Westboro, assignor to Norton Company, Worcester, Mass. Machine for lapping the ways of machine tools. 2,282,145; May 5.
Industrial Patents Corporation. (See Newton, Lowell B., assignor.)
Industrial Patents Corporation. (See Walter, Charles T., assignor.)
Ingersoll-Rand Company. (See Allen, Roy O., assignor.)

International Business Machines Corporation. (See Bryce, James W., assignor.)
International Business Machines Corporation. (See Durfee, Benjamin M., assignor.)
International Business Machines Corporation. (See Lake, Clair D., assignor.)
International Business Machines Corporation. (See Lake, C. D., and Pfaff, assignors.)
International Business Machines Corporation. (See Lang, William, assignor.)
International Business Machines Corporation. (See Nichols, H. J., and Tholstrup, assignors.)
International Business Machines Corporation. (See Rast, Frederick Q., assignor.)
International Business Machines Corporation. (See Watson, Thomas J., Jr., assignor.)
International Business Machines Corporation. (See Weitmann, Otto, assignor.)
International Paper Company. (See Mahannah, Everett A., assignor.)
International Standard Electric Corporation. (See Busignies, Henri G., assignor.)
International Standard Electric Corporation. (See James, I. R., and Wagstaffe, assignors.)
International Standard Electric Corporation. (See Scott, T. R., and Field, assignors.)
International Standard Electric Corporation. (See Scott, T. R., Mildner and Mensies, assignors.)
International Standard Electric Corporation. (See Scott, T. R., and Webb, assignors.)
Irmscher, Hans O., Roslyn, N. Y., assignor to Millie Patent Holding Co., Inc. Manufacture of essence containing packages for brewing beverages. 2,281,582; May 5.
Isaacson, Carl A., St. Paul, Minn. Garment hanger. 2,281,842; May 5.
Ish-Shalom, Samu-El, Brooklyn, N. Y. Continuous sterilizer. 2,282,059; May 5.
Jackson, Philip F., New York, N. Y. Front wheel indicator for motor vehicles. 2,282,189; May 5.
Jacquard Knitting Machine Co. (See Sirmay, Julius, assignor.)
Jahjah, Joseph, Beyrouth, Republic of Lebanon, Syria, assignor of one-third to H. A. Bitar, and one-third to G. E. Atiyeh, Portland, Oreg. Multicellular cementitious composition. 2,282,190; May 5.
Jam Handy Picture Service, Inc. (See Loughner, John N., and Gleason, assignors.)
James, Ivor R. J., and C. F. A. Wagstaffe, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Goniometer coil for radio direction finding system. 2,282,060; May 5.
James, Thomas W., and R. T. Marette, Cleveland, assignors to The Lubri-Zol Corporation, Wickliffe, Ohio. Gum and carbon removal. 2,281,695; May 5.
Janssen, Webster E., Westport, Conn. Illuminated music rack. 2,282,135; May 5.
Jasco Incorporated. (See Wollthan, H., and Becker, assignors.)
Jasperson, Nickolas, Oshkosh, Wis. Combination storm and screen sash. 2,282,061; May 5.
Jayne, David W., Jr., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparation of organic base compounds. 2,281,879; May 5.
Jenkins, Charles F. (See Rambo, R. E., and Jenkins.)
Jewett, Raymond V., Chitina, Territory of Alaska. Envelope opener. 2,282,062; May 5.
Jira, Joseph W., Newburgh Heights, Ohio, assignor to Continental Carbon, Inc. Metal film resistor. 2,281,843; May 5.
Johns-Manville Corporation. (See McAlpine, William M., assignor.)
Johns-Manville Corporation. (See Moore, Howard C., assignor.)
Johns-Manville Corporation. (See Powell, Edward R., assignor.)
Johnson, Benjamin L., Sewell, Rancagua, Chile, assignor to Braden Copper Company, New York, N. Y. Flotation. 2,281,880; May 5.
Johnson, Clarence L., assignor to Lockheed Aircraft Corporation, Burbank, Calif. Balanced control surface. 2,281,696; May 5.
Johnson, Frederick B., Murrysville, and A. H. Bakken, Edgewood, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit interrupter. 2,282,228; May 5.
Johnson, Samuel C., Uniontown, Pa., assignor to M. Neal Gordon, New York, N. Y. Therapeutic composition. 2,281,937; May 5.
Johnston, James W., Manchester, N. H., assignor to North American Holding Corporation, Syracuse, N. Y. Grading machine. 2,281,771; May 5.
Jones, Jesse E., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Distant control apparatus. 2,281,844; May 5.
Jorgensen, Richard W., Palos Park, Ill. Automobile headlight shade. 2,282,136; May 5.
Julian, Percy L., Maywood, and E. B. Oberg, Evanston, Ill., assignors to The Glidden Company, Cleveland, Ohio. Treating protein material and products produced thereby. 2,281,584; May 5.
Kadenacy, Michel, Furzeney, Fulmer, England. Supercharging. 2,281,585; May 5.
Kallo, Inc. (See Lieberknecht, Karl R., assignor.)
Kalorotor, Incorporated. (See Newhall, Ralph P., assignor.)
Kalva Venders, Inc. (See Tone, Frederick F., assignor.)
Kaplan, Arch, South Fallsburg, N. Y. Phonograph record rack. 2,281,845; May 5.
Kassner, Donald E. (See Quentin, C. F., and Kassner.)
Kaufmann, John J., Jr., Greenville, S. C., assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Loom shuttle. 2,282,191; May 5.
Keehn, Warner L., Spokane, Wash. Trailer loader. 2,282,137; May 5.
Keiser, David H., Jr., Wyomissing Hills, Pa. Pivotal connection for shears. 2,281,977; May 5.
Keith, Percival C., Jr., Peapack, N. J., and J. K. Roberts, Flossmoor, Ill., assignors of one-half to Standard Oil Company, Chicago, Ill., and one-half to Gasoline Products Company, Inc., Jersey City, N. J. Cracking of hydrocarbon oils. 2,281,881; May 5.
Keller, Curt, assignor to Escher Wyss Maschinenfabriken Aktiengesellschaft, Zurich, Switzerland. Controllable pitch propeller. 2,282,297; May 5.
Kellogg, Helen L. (See Kellogg, John L., assignor.)
Kellogg, John L., assignor to Helen L. Kellogg, Chicago, Ill. Production of soluble coffee extract. 2,282,138; May 5.
Kellogg, John L., assignor to Helen L. Kellogg, Chicago, Ill. Process for production of coffee extract. 2,282,139; May 5.
Kellogg Switchboard and Supply Company. (See Eaton, George R., assignor.)
Kelsey-Hayes Wheel Company. (See Whitten, Owen M., assignor.)
Kerr, Ralph L., Houston, Tex. Lubricated plug valve. 2,281,697; May 5.
Keyes, Walter C., Detroit, Mich., J. A. Younglove, Highland Park, Ill., R. D. Gartrell, Oakland, and R. H. Hambidge, Nutley, N. J., assignors, by mesne assignments, to United States Rubber Company, New York, N. Y. Railroad passenger car. 2,282,063; May 5.
Kibre, Martin W., Whittier, Calif. Continuous vapor pressure apparatus. 2,281,978; May 5.
Kimball, A., Company. (See Wetmont, Joseph, assignor.)
Kimberlin, Charles N., Baton Rouge, La., assignor to Standard Oil Development Company. Hydrocarbon treatment. 2,281,979; May 5.
Kingsbury Machine Works, Inc. (See Corby, Joseph, Jr., assignor.)
Kinsman, Russell C., Fairfield, Conn., assignor to Manning, Maxwell & Moore, Incorporated, New York, N. Y. Coupling. 2,281,882; May 5.
Kirkwood, Loren R. (See Holst, P. F. G., and Kirkwood.)
Kistler, Samuel S., West Boylston, assignor to Norton Company, Worcester, Mass. Grinding wheel. 2,282,192; May 5.
Kitto, William H. (See Coons, C. C., and Kitto.)
Klaucke, Hermann, Worcester, Mass., assignor to Chain Belt Company, Milwaukee, Wis. Rigid-back chain. 2,281,938; May 5.
Klein, William E., Pontiac, Ill. Straw cutter for grain combines. 2,281,846; May 5.
Kleinert, I. B., Rubber Company. (See Guinzburg, Roland H., assignor.)
Klemperer, Wolfgang B., Los Angeles, assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. Gun installation. 2,281,772; May 5.
Knoll, William J., assignor to H. B. Rouse & Company, Chicago, Ill. Mitering machine. 2,282,064; May 5.
Kogl, Frank, assignor of two and one-half percent to W. H. Carlson, two and one-half percent to O. E. Carlson, four percent to M. C. Schneider, four percent to G. Clark, and ten percent to R. S. McBride, all of St. Paul, Minn. Apparatus for precasting concrete stair structures. 2,281,698; May 5.
Kollman, August J., New York, N. Y. Fluid applicator. 2,281,773; May 5.
Koolerkoil Company. (See White, Melbourne H., assignor.)
Koppers Company. (See Koppers, Heinrich, assignor.)
Koppers, Heinrich, Essen, Germany, assignor, by mesne assignments, to Koppers Company, Pittsburgh, Pa. Chamber oven for the production of gas and coke. 2,281,847; May 5.
Kosian, Arthur, Chicago, Ill. Speed control for engines. 2,281,883; May 5.
Kraft Cheese Company. (See Palmer, Frank D., assignor.)
Kramer, Clarence F., Birmingham, assignor to Ford Motor Company, Dearborn, Mich. Combined scuff plate and weather strip. 2,281,586; May 5.
Krinzlein, Paul, Berlin, Germany, assignor to General Aniline & Film Corporation. Substituted anthraquinones and the corresponding aroyl-benzoic acids and process of preparing the same. 2,281,583; May 5.
Krautwig, Franz, Berlin-Steglitz, Germany, assignor to General Electric Company. Electromagnetic device. 2,282,065; May 5.
Kroepel, Carl J. (See Handy, A. E., and Kroepel.)
Kuhnl, Leopold, Bridgeport, Conn., assignor to Magazine Repeating Razor Company, New York, N. Y. Concealed spring razor. 2,281,980; May 5.
Lachle, Francis B., assignor to The Sharples Corporation, Philadelphia, Pa. Refining of fatty oils. 2,281,884; May 5.

Lagaard, Alexander S. T., Minneapolis, Minn. Tool. 2,281,939; May 5.
Lagne and Bowler, Incorporated. (See Ogran, Casper J., assignor.)
Lake, Clair D., Binghamton, and W. Pfaff, Union Center, assignors to International Business Machines Corporation, New York, N. Y. Relay. 2,282,006; May. 5.
Lake, Clair D., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Time recorder. 2,282,140; May 5.
Lamond, Robert C., assignor to American Engineering Company, Philadelphia, Pa. Steering gear. 2,282,194; May 5.
Lambrix, Maurice A., assignor to Gear Processing, Inc., Cleveland, Ohio. Method and apparatus for cutting gears. 2,282,193; May 5.
Landis Tool Company. (See Balsiger, Harold E., assignor.)
Lang, William, assignor to International Business Machines Corporation, New York, N. Y. Printing control mechanism. 2,282,067; May 5.
Langmaid, Charles T., and P. E. Double, assignors to Fabristeel Products, Inc., Detroit, Mich. Clinch nut. 2,281,699; May 5.
Langmaid, Charles T., Detroit, Mich. Fastening device. 2,281,700; May 5.
Lanigan, Alfred E., Ferndale, assignor to Electromaster, Inc., Detroit, Mich. Safety appliance for electrically heated apparatus. 2,281,848; May 5.
Lanova Corporation. (See Fischer, Hans., assignor.)
Larkin, Daniel A., assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio. Basket. 2,281,701; May 5.
Larsen, Earl I. (See Hensel, F. R., and Larsen.)
Larsen, Louis G., Jersey City, N. J., assignor to Wirthsen Associates, Inc., New York, N. Y. Slotting machine. 2,281,774; May 5.
Larus & Brother Co. (See Wysong, James R., assignor.)
Latch Coupling Company. (See Stitzer, William E., assignor.)
Latham, Harold A. M., Binghamton, N. Y., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Making cutting dies. 2,281,587; May 5.
Laucks, I. F., Inc. (See Dike, T. W., and Galber, assignors.)
Lechleitner, Aloysius E. (See Helbing, G. O., and Lechleitner.)
Le Compte, John M., North Attleboro, Mass. Racket. 2,282,195; May 5.
Lederle Laboratories, Inc. (See Parfentjev, Ivan A., assignor.)
Ledingham, George L. (See Haltom, E. P., and Ledingham.)
Leland Stanford, Junior, University, The Board of Trustees of The. (See Hansen, W. W., and Varian, assignors.)
Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc. Building structure. 2,281,981; May 5.
Le Tourneau, R. G., Inc. (See Le Tourneau, Robert G., assignor.)
Lewis, Robert R., Baldwin, assignor to Vulcan Proofing Company, Brooklyn, N. Y. Coating composition. 2,281,940; May 5.
Leyn, Albrecht, Berlin, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie Zehlendorf, Osteweg, Berlin, Germany. Arrangement for transmitting and receiving wireless messages. 2,281,982; May 5.
Liberty Can and Sign Company. (See Rueger, Herman W., assignor.)
Liebau, Martin, Berlin-Kopenick, and H. Böck, Berlin-Steglitz, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Calibrating means for a radio receiver. 2,282,068; May 5.
Lieber, Eugene, Linden, N. J., assignor to Standard Oil Development Company. Wax modifying agents. 2,281,941; May 5.
Lieber, Eugene, Linden, N. J., assignor to Standard Oil Development Company. Addition agent for lubricating oils. 2,281,942; May 5.
Lieber, William H. (See Beckwith, W. K., and Lieber.)
Lieberknecht, Karl R., Oberlungwitz, Germany, assignor to Kallo, Inc., New York, N. Y. Straight bar knitting machine. 2,281,702; May 5.
Linde Air Products Company, The. (See Burdick, John N., assignor.)
Linebarger, Charles E., deceased, late of Chicago, Ill., by Charles E. Linebarger, Jr., administrator, assignor to The Chaslyn Company, Chicago, Ill. Hydrometer. 2,282,069; May 5.
Linebarger, Charles E., Jr., as administrator. (See Linebarger, Charles E.)
Line Material Company. (See Steinmayer, Alwin G., assignor.)
Litle, Thomas J., Jr., assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Wringer roll stop mechanism. 2,281,885; May 5.
Lockheed Aircraft Corporation. (See Johnson, Clarence L., assignor.)
Lonergan Manufacturing Company. (See Funk, James M., assignor.)
Long, James W., Plainfield, and G. I. Roberts, Cresskill, N. J., assignors to The Western Union Telegraph Company, New York, N. Y. Telegraph printer. 2,281,775; May 5.
Longwell, Robert R., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Shielding of grid supports. 2,282,229; May 5.
Lorentzen Hardware Mf'g. Corp. (See Waltzinger, August F., assignor.)
Louden Machinery Company, The. (See Peebles, Frank B., assignor.)
Loughner, John N., Detroit, and C. O. Gleason, Ferndale, assignors to Jam Handy Picture Service, Inc., Detroit, Mich. Sliding film projector. 2,281,943; May 5.
Lowe, Wesley G., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic silver halide emulsions. 2,281,703; May 5.
Lubri-Zol Corporation, The. (See James, T. W., and Marette, assignors.)
Lubri-Zol Development Corporation, The. (See Prutton, Carl F., assignor.)
Lucarelle, Joseph M. (See Beard, T. H., and Lucarelle.)
Lynn, Clarence, Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Parallel operation of dynamo-electric machines. 2,282,196; May 5.
Lyon, James, San Diego, Calif. Brooder. 2,281,776; May 5.
MacAlpine, William M., Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Mineral wool product and making it. 2,282,230; May 5.
MacDonald, Howard G., Murrysville, and J. M. Cumming, Turtle Creek, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Tank lifter for circuit breakers. 2,282,232; May 5.
Mackey, Bill H. (See Dew, W. A., and Mackey.)
MacMartin, William B. (See Bramsen, Svend, and MacMartin.)
Mader, Stewart S. (See Flygare, C. G., and Mader.)
Madsen Iron Works. (See Madsen, M., and Ziegler, assignors.)
Madsen, Martin, Alhambra, and A. H. Ziegler, Hollywood, assignors to Madsen Iron Works, Huntington Park, Calif. Adjustable stroke metering pump. 2,281,777; May 5.
Magazine Repeating Razor Company. (See Ebelhare, William H., assignor.)
Magazine Repeating Razor Company. (See Hill, Hermann, assignor.)
Magazine Repeating Razor Company. (See Kuhnl, Leopold, assignor.)
Magazine Repeating Razor Company. (See Reid, Willard, assignor.)
Magnus, Henry, Nichols, Wis. End dam for milk desiccators. 2,281,588; May 5.
Mahannah, Everett A., Niagara Falls, assignor to International Paper Company, New York, N. Y. Apparatus for drying paper and paper pulp samples. 2,282,070; May 5.
Majik-Ironers, Inc. (See Foster, Edwin E., assignor.)
Mandl, Siegmund, assignor to Blackhawk Mfg. Co., Milwaukee, Wis. Tool handle. 2,282,148; May 5.
Manning, Maxwell & Moore, Incorporated. (See Kinsman, Russell C., assignor.)
Marette, Ralph T. (See James T. W., and Marette.)
Markle, George B., Jr., Butler Township, Luzerne County, Pa. Self-locking arbor for tubes and spools or the like. 2,281,983; May 5.
Marsac, Leonard C., Cranford, and D. A. Graesser, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine drive. 2,282,071; May 5.
Martiny, Henry L., New Orleans, La. Play garment. 2,281,984; May 5.
Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Piezoelectric crystal apparatus. 2,281,778; May 5.
Mastic Asphalt Corporation. (See Snyder, Gilbert J., assignor.)
Matthews, James W., Alice, Tex. Flush tank. 2,282,141; May 5.
Matthews, Louis L., assignor to Maxson Automatic Machinery Company, Westerly, R. I. Sheet feeding machine. 2,281,704; May 5.
Mattox, William J., assignor to Universal Oil Products Company, Chicago, Ill. Separation of aromatic hydrocarbons. 2,282,231; May 5.
Maul, Michael, Berlin-Johannisthal, assignor to the firm Deutsche Hollerith Machinen Gesellschaft m. b. H., Berlin-Lichterfelde, Germany. Machine for operating upon record cards. 2,282,072; May 5.
Maxson Automatic Machinery Company. (See Matthews, Louis L., assignor.)
Maynard, Meade J., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Combustion control system. 2,282,197; May 5.
McBride, Charles B. (See Watson, J. E., and McBride.)
McBride, Ruby S., et al. (See Kogl, Frank, assignor.)
McCoppin, Richard B., Westchester, Ill. Rotatable rack. 2,281,849; May 5.
McCusker, Joseph B. (See Terroni, T. B. D., and McCusker.)
McDonald, Albert P., Louisville, Ky. Vitreous clay underground conduit. 2,282,073; May 5.

McDonald, Robert E., San Antonio, Tex., dedicated to the free use of the People in the Territory of the United States. Subsoil stalk cutter. 2,281,779; May 5.
McFerron, Alfred V., Rocky River, Ohio. Fishing rod. 2,282,233; May 5.
McKinney, Paul E., Bethlehem, Pa., assignor to Bethlehem Steel Company. Sucker rod steel. 2,281,850; May 5.
McMillan, Frank M. (See De Simó, M., and McMillan.)
Mealing, Kenneth W., East Lansdowne, and H. K. Harwick, Darby, Del., assignors to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Draft gear mechanism for railway vehicles. 2,282,146; May 5.
Mehan, Thomas O., assignor to Victor Adding Machine Co., Chicago, Ill. Printing mechanism for adding machines. 2,281,851; May 5.
Menzies, Thomas E. D. (See Scott, T. R., Mildner, and Menzies.)
Mercier, Jean, Neuilly-sur-Seine, France. Method of making fluid-tight packing pieces. 2,281,780; May 5.
Merlub-Sobel, Menahem. (See Bialosky, J. M., and Merlub-Sobel.)
Merrill, David R., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Extreme pressure lubricant. 2,281,705; May 5.
Merrill, Patterson D., South Bend, Ind., and F. L. Green, Irvington, N. Y., assignors to M. B. Skinner Company, South Bend, Ind. T-fitting and valve. 2,281,781; May 5.
Merriman, William E., assignor to Eastman Kodak Company, Rochester, N. Y. Film magazine with sound drum. 2,282,074; May 5.
Messler, Allan H., West Hartford, assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Dishwashing machine. 2,281,852; May 5.
Metropolitan Device Corporation. (See Rypinski, Albert B., assignor.)
Michener, Aubrey W. (See Shinn, J. V., and Michener.)
Mihalyi, Joseph, assignor to Eastman Kodak Company, Rochester, N. Y. Motor drive operating mechanism for roll film cameras. 2,282,075; May 5.
Mildner, Raymond C. (See Scott, T. R., Mildner, and Menzies.)
Miller, Bruce De H., and H. W. Bevarly, assignors to The Girdler Corporation, Louisville, Ky. Processing apparatus. 2,281,944; May 5.
Miller, Harry C., Meadville, Pa. Permanent wave method and apparatus. 2,281,853; May 5.
Miller, James, Jr., Chicago, Ill., assignor to Trumbull Asphalt Company. Method and apparatus for packaging asphalt and container therefor. 2,281,854; May 5.
Millie Patent Holding Co., Inc. (See Irmscher, Hans O., assignor.)
Milliken, Alma D., Rye, N. Y. Paper napkin. 2,281,945; May 5.
Milwaukee Electric Tool Corporation. (See Beckwith, W. K., and Lieber, assignors.)
Mine and Smelter Supply Company, The. (See Moerlin, W. J., Berndt, and Wales, assignors.)
Minich, Charles A., Philadelphia, Pa. Parachute. 2,282,234; May 5.
Minneapolis-Honeywell Regulator Company. (See Gille, Willis H., assignor.)
Minneapolis-Honeywell Regulator Company. (See Maynard, Meade J., assignor.)
Minneapolis-Honeywell Regulator Company. (See Plum, Le Roy H., assignor.)
Minnesota Mining & Manufacturing Company. (See Cross, Bert S., assignor.)
Mirando, Felix A., assignor to Imperial Knife Company, Inc., Providence, R. I. Knife. 2,281,782; May 5.
Mirando, Felix A., assignor to Imperial Knife Company, Inc., Providence, R. I. Knife. 2,281,783; May 5.
Mitchell, James A., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Moistureproof wrapping material. 2,281,589; May 5.
Moberly, Lawrence E., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Hydrocarbon gas treatment for electrographitic material. 2,282,235; May 5.
Moddes, Edmund J., and L. Cinelli, Kenosha, Wis. Whirling sound drum toy. 2,282,076; May 5.
Moerlin, William J., O. Berndt, and J. P. Wales, assignors to The Mine and Smelter Supply Company, Denver, Colo. Pulverizer. 2,281,855; May 5.
Mohr, Albert C., Berkeley, assignor to Stauffer Chemical Company, San Francisco, Calif. Insecticide. 2,281,784; May 5.
Mohr, Albert C., Berkeley, assignor to Stauffer Chemical Company, San Francisco, Calif. Insecticidal composition. 2,281,785; May 5.
Mohr, Albert C., Berkeley, assignor to Stauffer Chemical Company, San Francisco, Calif. Insecticidal material. 2,281,786; May 5.
Mohr, Albert C., Berkeley, assignor to Stauffer Chemical Company, San Francisco, Calif. Composition for insecticidal use. 2,281,787; May 5.
Monsanto Chemical Company. (See Dahle, Joseph, assignor.)
Montgomery, Donald H., West Hartford, and G. A. Cardell, assignors, by mesne assignments, to The New Britain Machine Company, New Britain, Conn. Tool holder. 2,281,706; May 5.
Moore, Hamilton K., St. Louis, Mo. Changeable pitch propeller unit. 2,282,077; May 5.
Moore, Howard C., Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Making composite sheets. 2,281,591; May 5.
Moore, William, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Dioctyl cyanamid as an insecticide. 2,281,856; May 5.
Moore, William, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Ethyl dinitro salicylate as an insecticide. 2,281,857; May 5.
Morehead, James A., Huntington, assignor to Sinclair Glass Company, Ceredo, W. Va. Light reflecting sign. 2,282,079; May 5.
Morey, Glen H., Terre Haute, Ind. Electrical heating device. 2,282,078; May 5.
Morgan, Francis E., Waco, Tex. Egg fork and opener. 2,281,985; May 5.
Morgan, Willard L., Cranston, R. I., assignor to Arnold, Hoffman & Co., Incorporated. Weighting textiles. 2,281,599; May 5.
Morris, George L., Bonsall, Calif. Honey extractor comb pocket means. 2,281,788; May 5.
Moskovics, Frederick E., assignor to E. U. Andrews, Greenwich, Conn. Shaving apparatus. 2,281,789; May 5.
Mott, Edwin L., St. Louis, Mo. Container. 2,281,707; May 5.
Mouradian, Hughes, Philadelphia, Pa. Antistatic device. 2,282,299; May 5.
Murcek, Slavo J., Duquesne, assigner to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Photoelectric differential analyzer. 2,282,198; May 5.
Nagdeman, Jacob, East Chicago, Ind. Shirt collar support. 2,282,080; May 5.
Nash-Kelvinator Corporation. (See Huber, John S., assignor.)
Nash-Kelvinator Corporation. (See Wahlberg, Nils E., assignor.)
National Automotive Fibres, Inc. (See Cunnington, George R., assignor.)
National Automotive Fibres, Inc. (See Ratley, Harold M., assignor.)
National Bread Wrapping Machine Co. (See Hoppe, William, assignor.)
National Cash Register Company. (See Robertson, William H., assignor.)
National Malleable and Steel Castings Company. (See Bazeley, Arthur J., assignor.)
Nekola, William J. (See Herold, J. L., Nekola, and Wehmiller.)
Nelson, Adolph L., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Piston. 2,282,081; May 5.
Nerney, George E., assignor to Bay State Optical Company, Attleboro, Mass. Eyeglass construction. 2,282,236; May 5.
Neuman, Jacob J., assignor to United States Patent Development and Royalty Company, South Salem, N. Y. Bag filling and closing apparatus. 2,282,199; May 5.
Neuman, Jacob J., assignor to United States Patent Development and Royalty Company, South Salem, N. Y. Tape cutter for bag closing machines. 2,282,200; May 5.
Neuman, Jacob J., assignor to United States Patent Development and Royalty Company, South Salem, N. Y. Lift truck. 2,282,201; May 5.
New Britain Machine Company, The. (See Montgomery, D. H., and Cardell, assignors.)
Newell, Heber L., Stratford, Conn., assignor to General Electric Company. Cooking apparatus. 2,282,082; May 5.
Newhall, Ralph P., Conway, N. H., assignor to Kalorotor, Incorporated, New York, N. Y. Luminous display apparatus. 2,281,790; May 5.
Newton, George W., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md. Mixing beverages. 2,281,791; May 5.
Newton, John S., Drexel Hill, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Combined electric coupling and reverse gear. 2,282,237; May 5.
Newton, Lowell R., assignor to Industrial Patents Corporation, Chicago, Ill. Meat treatment. 2,281,590; May 5.
Newton, Richard T., New York, N. Y. Lawn mower for grass, grains, and the like. 2,282,238; May 5.
Nichol, Clinton, Morrison, Okla. Ground engaging vehicle brake. 2,282,202; May 5.
Nichols, Harry J., Point Pleasant, N. J., and H. L. Tholstrup, Binghamton, assignors to International Business Machines Corporation, New York, N. Y. Clutch. 2,282,084; May 5.
Nichols, William M., J. W. Anderson, and G. K. Aue, Auburn, assignors to American Locomotive Company, New York, N. Y. Piston. 2,282,085; May 5.
Nicholson, Frank H., Penn Township, Allegheny County, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signal control circuit. 2,282,083; May 5.
Niles, Raymond W., Saline, A. H. Bethke, Ann Arbor, and W. Graves, Ypsilanti, assignors to Hoover Ball & Bearing Company, Ann Arbor, Mich. Antifriction bearing. 2,281,708; May 5.
Nolan, Benjamin A., Stillwater, Minn. Marine sky beam signaling device. 2,281,986; May 5.

Nordberg Manufacturing Company. (See Talboys, Henry H., assignor.)
Norris, Edward O., Westport, Conn., assignor to Edward O. Norris, Inc., New York, N. Y. Stencil. 2,282,203; May 5.
Norris, Edward O., Inc. (See Norris, Edward O., assignor.)
North American Holding Corporation. (See Johnston, James W., assignor.)
Norton Company. (See Flygare, C. G., and Mader, assignors.)
Norton Company. (See Indge, Herbert S., assignor.)
Norton Company. (See Kistler, Samuel S., assignor.)
Oak Manufacturing Company. (See Ten Cate, Arthur C., assignor.)
Oberg, Elmer B. (See Julian, P. L., and Oberg.)
O'Brien, Joseph F., Englewood, N. J. Bottle carrier. 2,281,592; May 5.
O'Brien, Terence H., assignor to Isaac Braithwaite & Son Engineers Limited, Kendal, England. Garment and like pressing machine. 2,282,204; May 5.
Odessey, Paul H., Brooklyn, N. Y. Voltage regulator. 2,281,593; May 5.
Ogran, Casper J., Milwaukee, Wis., assignor to Lagne and Bowler, Incorporated, Memphis, Tenn. Cable tool reamer. 2,281,614; May 5.
Oil Well Supply Company. (See Shimer, John M., assignor.)
Olsen, Eric H., Salt Lake City, assignor of one-half to D. B. Harman, Midvale, Utah. Spreader. 2,282,205; May 5.
Olson, Elmer, Pomeroy, Iowa. Beat oscillator. 2,281,709; May 5.
Olson, Harold T., assignor to The Folmer Graflex Corporation. Rochester, N. Y. Camera stand or tripod. 2,282,285; May 5.
Oman, Carl, Cedar Grove, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Telemetering system. 2,281,710; May 5.
Oneida Paper Products, Inc. (See Bischoff, Louis, assignor.)
O'Neill, Lambert J., Jr., Staten Island, N. Y., assignor to Poirier & McLane Corporation. Screed support. 2,281,946; May 5.
Opperman, Stanley E., Greenhill, Ganwick Corner, near Barnet, England. Screw-cutting die. 2,282,206; May 5.
Opsahl, Alert M., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. General bushing seal. 2,282,239; May 5.
Osterberg, Harold, and D. I. Critoph, assignors to Spencer Lens Company, Buffalo, N. Y. Ventilating device for projection apparatus. 2,281,988; May 5.
Oswald, Hans, assignor to Sulzer Freres, Societe Anonyme, Winterthur, Switzerland. Internal combustion engine and control apparatus. 2,281,987; May 5.
Otis Elevator Company. (See Handy, A. E., and Kroepel, assignors.)
Otis, Lawrence B. (See Hunter, R. M., Otis, and Blue.)
Otnow, Israel, assignor to Durlacher & Company, Incorporated, New York, N. Y. Monogram affixing device. 2,282,286; May 5.
Ott, Joe, Manufacturing Co. (See Ott, Joseph S., assignor.)
Ott, Joseph S., assignor to Joe Ott Manufacturing Co., Chicago, Ill. Toy airplane construction. 2,281,792; May 5.
Ottinger, Leon. (See Gage, Edward G., assignor.)
Owens, James S. (See Heerema, J., and Owens.)
Package Machinery Company. (See Smith, Elmer L., assignor.)
Palmer, Frank D., Chicago, Ill., assignor to Kraft Cheese Company. Container and making the same. 2,282,207; May 5.
Parfentjev, Ivan A., Nyack, assignor to Lederle Laboratories, Inc., New York, N. Y. Production of plasma. 2,281,989; May 5.
Parfentjev, Ivan A., Nyack, assignor to Lederle Laboratories, Inc., New York, N. Y. Treatment of blood. 2,281,990; May 5.
Parsberg, Erik R., Lidingo, Sweden, assignor to American Gas Accumulator Company, Elizabeth, N. J. Beacon. 2,282,208; May 5.
Parsons, John B., Toledo, Ohio. Hydraulic window regulator mechanism. 2,282,240; May 5.
Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Refrigerator latch. 2,281,947; May 5.
Patrick, Joseph C., Morrisville, Pa., assignor to Thiokol Corporation, Trenton, N. J. Desulphurized polysulphide polymer and making. 2,282,287; May 5.
Patrick, William P., Vaughn, Wash. Magnetic recorder. 2,281,793; May 5.
Peake, John S., assignor to The Dow Chemical Company, Midland, Mich. Making dolomite briquettes for use in the production of magnesium. 2,282,241; May 5.
Pearl, William A., Chicago, Ill. Sealing tubes to tube sheets of heat exchangers, and the like. 2,281,594; May 5.
Peck, William F., and C. M. Sperazz, Kenmore, assignors to Spencer Lens Company, Buffalo, N. Y. Speed governor for electric motors. 2,281,711; May 5.
Peebles, Frank B., assignor to The Louden Machinery Company, Fairfield, Iowa. Trolley for overhead conveying systems. 2,281,794; May 5.
Peerless of America, Incorporated. (See Hoesel, Anthony F., assignor.)
Peltier, Leslie, Delphos, assignor to The Delphos Bending Company, Columbus, Ohio. Folding walker. 2,282,086; May 5.
Peña, Juan N., Las Vegas, N. Mex. Automobile heater. 2,282,087; May 5.
Pen-Chlor, Incorporated. (See Dietz, K., and Privinsky, assignors.)
Peple, Gustave A., Jr., Richmond, Va. Method and apparatus for air conditioning. 2,281,615; May 5.
People in the territory of the United States, Dedicated to the free use of the. (See McDonald, Robert E., assignor.)
Pepper, William M., Jr., and P. E. Vrooman, Atlanta, Ga. Time interval indicating device. 2,282,209; May 5.
Person, Axel, assignor to Bay State Optical Company, Attleboro, Mass. Eyeglass construction. 2,282,242; May 5.
Petersen, Carl G., Bismarck, N. Dak. Filter card. 2,282,301; May 5.
Pfaff, Wesley. (See Lake, C. D., and Pfaff.)
Philadelphia Quartz Company. (See Baker, Chester L., assignor.)
Philco Radio and Television Corporation. (See Albright, Robert B., assignor.)
Phillips Petroleum Company. (See Carney, Samuel C., assignor.)
Phillips Petroleum Company. (See Pyeatt, William H., assignor.)
Phillips Petroleum Company. (See White, Charley L., assignor.)
Pieplow, Hanswerner, Berlin, Germany, assignor to General Electric Company, Schenectady, N. Y. Relaxation oscillator. 2,281,948; May 5.
Pierce, Frank L., Garden City, N. Y., assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,281,858; May 5.
Pipe Cleaning Company. (See Constant, T. D., and Boulton, assignor.)
Pittman, Ralph R., and C. H. Walsh, Pine Bluff, Ark. Fuse link construction. 2,281,795; May 5.
Pittsburgh Plate Glass Company. (See Pollack, Maxwell A., assignor.)
Place, Les W., assignor to The J. R. Clark Company, Minneapolis, Minn. Ironing table top. 2,282,300; May 5.
Placek, Adolph, Jackson Heights, N. Y. Process and apparatus for treating liquids with a gaseous medium. 2,281,616; May 5.
Plant, Leland G., Washington, D. C., and L. Richardson, Cambridge, Mass. Apparatus for servicing railway running gears. 2,281,595; May 5.
Plensler, Alexander W., Chicago, Ill., assignor to Belmont Radio Corporation. Gear cutting apparatus. 2,282,288; May 5.
Plum, Le Roy H., Collingswood, N. J., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Air conditioning system. 2,282,210; May 5.
Podbielniak, Walter J., assignor to Benjamin B. Schneider, Chicago, Ill. Effecting countercurrent contact between fluids. 2,281,796; May 5.
Poetschke, Paul, Bronxville, N. Y. Dental amalgam alloy. 2,281,991; May 5.
Poetschke, Paul, Bronxville, N. Y. Impression taking composition. 2,281,992; May 5.
Pöhls, Paul, and R. Behnisch, Wuppertal-Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Sulphone compounds. 2,282,211; May 5.
Poirier & McLane Corporation. (See O'Neil, L. J., Jr., assignor.)
Pollack, Maxwell A., Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Chloracrylic esters. 2,282,088; May 5.
Pope, Elton A., assignor to Chase Brass & Copper Co., Incorporated, Waterbury, Conn. Drain assembly. 2,282,212; May 5.
Poravas, Chris, et al. (See Waite, Charles F., assignor.)
Potgieter, Fred M. (See Swenson, C. E., and Potgieter.)
Potigian, Armen, Davenport, Iowa. Force measuring device. 2,281,712; May 5.
Potter, Miles S., assignor to Associated Manufacturers, Inc., Waterloo, Iowa. Centrifugal liquid separator. 2,281,797; May 5.
Potts, Louis M., Evanston, assignor to Teletype Corporation, Chicago, Ill. Telegraphic transmission by space discharge control. 2,281,596; May 5.
Prat-Daniel Corporation. (See Watson, J. E., and McBride, assignors.)
Pritchard, Sydney C., London, England. Hair drying machine. 2,281,993; May 5.
Prince, Warren V., assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,281,798; May 5.
Privinsky, Franz. (See Dietz, K., and Privinsky.)
Propernick, August A., Bridgeport, Conn., assignor to General Electric Company. Electric appliance. 2,282,089; May 5.

Prutton, Carl F., Cleveland Heights, assignor to The Lubri-Zol Development Corporation, Cleveland, Ohio. Lubricant and method of lubricating. 2,281,597; May 5.

Prutton, Carl F., Cleveland Heights, assignor to The Lubri-Zol Corporation, Wickliffe, Ohio. Solvent and fuel containing same. 2,281,598; May 5.

Puckette, Charles C., Coventry, assignor to The General Electric Company Limited, London, England. Impulse sender for use in telephone or like systems. 2,281,994; May 5.

Pujol, Albert J., Astoria, Long Island, assignor to Cartier, Inc., New York, N. Y. Corsage holder. 2,282,090; May 5.

Purington, Ellison S., Gloucester, Mass., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Phase comparing system. 2,281,995; May 5.

Pyeatt, William H., Breckenridge, Tex., assignor to Phillips Petroleum Company. Setting poles. 2,281,713; May 5.

Pyle-National Company, The. (See Wulle, W. A., and Drake, assignors.)

Public Seale Company. (See Hochriem, Gustav F., assignor.)

Quave, Oscar E., Huntington Park, assignor to Utility Fan Corporation, Los Angeles, Calif. Flow distributor. 2,281,799; May 5.

Quentin, Charles F., Cedar Rapids, and D. E. Kassner, Marion, Iowa. Fish line drying means. 2,282,147; May 5.

Radio Corporation of America. (See Barton, Loy E., assignor.)

Radio Corporation of America. (See Brady, Raymond F., assignor.)

Radio Corporation of America. (See Brailsford, Joseph D., assignor.)

Radio Corporation of America. (See Brown, George H., assignor.)

Radio Corporation of America. (See Goldsmith, Alfred N., assignor.)

Radio Corporation of America. (See Hansell, Clarence W., assignor.)

Radio Corporation of America. (See Holst, P. F. G., and Kirkwood, assignors.)

Radio Corporation of America. (See Purington, Ellison S., assignor.)

Radio Corporation of America. (See Riddle, James M., Jr., assignor.)

Radio Corporation of America. (See Rinia, Herre, assignor.)

Radio Corporation of America. (See Rust, N. J., Brailsford, and Goodenough, assignor.)

Radio Corporation of America. (See Roberts, Walter van B., assignor.)

Radio Corporation of America. (See Tunick, Harry, assignor.)

Radio Corporation of America. (See van der Mark, Jan, assignor.)

Radio Corporation of America. (See Weathers, Paul, assignor.)

Rambo, Rawdon E., Wilkinsburg, and C. F. Jenkins, Forest Hills, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Submerged motor assembly. 2,282,243; May 5.

Ramsdell, Bentley F., Geneva, Ill. Cigarette chest. 2,281,617; May 5.

Randall, Gerald A., Merrick, and J. E. Rice, Jr., Brooklyn, assignors to The Western Union Telegraph Company, New York, N. Y. Submarine cable amplifying system. 2,281,996; May 5.

Randall, Gerald A., Merrick, assignor to The Western Union Telegraph Company, New York, N. Y. Submarine cable signal shaping system. 2,281,997; May 5.

Ransome Company. (See Ransome Tallent H., assignor.)

Ransome, Tallent H., Berkeley, assignor to Ransome Company, Emeryville, Calif. High pressure safety valve. 2,282,244; May 5.

Ransone, Keating, and R. Eichenberg, assignors to Independent Consulting Company, Houston, Tex. Well drilling device. 2,281,952; May 5.

Rast, Frederick Q., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Time recorder. 2,281,998; May 5.

Ratley, Harold M., Highland Park, assignor to National Automotive Fibres, Inc., Detroit, Mich. Strip applicator. 2,282,245; May 5.

Rauh, Herbert H., Columbus, Ohio. Lock. 2,281,714; May 5.

Reagan, Maurice E., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Automatic reclosing circuit breaker system. 2,282,246; May 5.

Redd, Oliver F., Wellsville, Ohio. Preparing calcined gypsum. 2,282,091; May 5.

Reece Folding Machine Company. (See Gilbert, Alfred G., assignor.)

Reeves, Paul B., assignor to Reeves Pulley Company, Columbus, Ind. Lubrication device. 2,281,859; May 5.

Reeves Pulley Company. (See Reeves, Paul B., assignor.)

Reid, Johnston F., Wilmington, Del. Drawer guide. 2,282,247; May 5.

Reid, Willard, assignor to Magazine Repeating Razor Company, New York, N. Y. Blade stropping device. 2,281,953; May 5.

Reintjes, Harold. (See Swallen, L. C., and Reintjes.)

Renault, Jean C., Salinas, Calif. Continuous feed and pressure press. 2,281,860; May 5.

Research Corporation. (See Barrow, Wilmer L., assignor.)

Retter, Walther. (See Schussler, H., and Retter.)

Reynolds, Joseph H., and A. Sandhofer, Cisco, Tex. Pumping wells. 2,281,801; May 5.

Rice, James E., Jr. (See Randall, G. A., and Rice, Jr.)

Richter, Herman F., Los Angeles, Calif. Cigarette making device. 2,281,861; May 5.

Rieback, Bertha, New York, N. Y. Garment fastener. 2,281,999; May 5.

Riedesel, Ernest H., Jr., Bennett, Iowa. Closure for storage batteries. 2,281,800; May 5.

Rice Barton Corporation. (See Smith, Herman A., assignor.)

Richardson, Lawrence. (See Plant, L. G., and Richardson.)

Riddle, James M., Jr., West Collingswood, N. J., assignor to Radio Corporation of America. Inverse feedback amplifier. 2,281,618; May 5.

Rinia, Herre, Eindhoven, Netherlands, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Device for synchronizing the speed of rotation of rotating bodies. 2,281,954; May 5.

Riordan, Albert O., assignor to Baker Perkins Inc., Saginaw, Mich. Apparatus for straightening the edge of a dough sheet preparatory to coiling. 2,281,802; May 5.

Rittman, Adolph C., assignor to Eastman Kodak Company, Rochester, N. Y. Lubricating oil package. 2,282,000; May 5.

Ritzmann, Otto F., assignor to Gulf Research & Development Company, Pittsburgh, Pa. Apparatus for seismograph prospecting. 2,281,949; May 5.

Roberts, Clifford R., Brighton, Mich. Thermostatically controlling gas fired heaters and the like. 2,281,619; May 5.

Roberts, George I. (See Long, J. W., and Roberts.)

Roberts, Joseph K. (See Keith, P. C., Jr., and Roberts.)

Roberts, Walter van B., Princeton, N. J., assignor to Radio Corporation of America. Frequency modulation receiver. 2,282,092; May 5.

Robertson, William H., assignor to National Cash Register Company, Dayton, Ohio. Cash register. 2,281,803; May 5.

Robinson Clay Product Company, The. (See Hamlen, Earle K., assignor.)

Robinson, Harold A., assignor to The Dow Chemical Company, Midland, Mich. Halogen extraction. 2,282,280; May 5.

Rogers, Donald A., Petersburg, Va., assignor to The Solvay Process Company, New York, N. Y. Production of sodium formate. 2,281,715; May 5.

Röhm & Haas Company. (See Craig, W. E., and Hester, assignors.)

Röhm & Haas Company. (See Hester, W. F., and Craig, assignors.)

Rolph, Henry D., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Door lock. 2,282,213; May 5.

Rosenweig, Siegfried, New York, N. Y. Shockproof isolator. 2,281,955; May 5.

Ross, Emma E. (See Ross, Joseph R., assignor.)

Ross, Joseph R., assignor to E. E. Ross, New York, N. Y. Dilator. 2,281,600; May 5.

Rossman, Allen M., Wilmette, Ill. Pull rod carrier. 2,281,601; May 5.

Rouse, H. B., & Company. (See Knoll, William J., assignor.)

Rowe, Andrew R., McKeesport, assignor to Harbison-Walker Refractories Company, Pittsburgh, Pa. Making metallic ingots. 2,282,248; May 5.

Ruben, Samuel, New Rochelle, N. Y. Electrostatic condenser and spacer therefor. 2,281,602; May 5.

Rudd, Harry B., Flushing, N. Y. Pinking cutter. 2,281,716; May 5.

Rueger, Herman W., Lancaster, Pa., assignor to Liberty Can and Sign Company. Receptacle discharge cap. 2,281,620; May 5.

Russell, John, and R. E. Stauffer, assignors to Eastman Kodak Company, Rochester, N. Y. Color-forming gelatin compound. 2,282,001; May 5.

Rust, Noël M., Chelmsford, J. D. Brailsford, London, and E. F. Goodenough, Springfield, Chelmsford, England, assignors to Radio Corporation of America. Band-pass filter. 2,281,621; May 5.

Ruthruff, Robert F., Chicago, Ill. Isomerization of olefins. 2,281,804; May 5.

Ruzicka, Leopold, Zurich, Switzerland, assignor, by mesne assignments, to Ciba Pharmaceutical Products, Incorporated, Summit, N. J. Saturated and unsaturated derivatives of the 3-keto-cyclopentano-polyhydrophenanthrene series. 2,281,622; May 5.

Rypinski, Albert B., Laurelton, assignor to Metropolitan Device Corporation, Brooklyn, N. Y. Circuit breaker. 2,281,950; May 5.

Sages, Joseph. (See Cravotta, Samuel R., assignor.)

Salzberg, Paul L. (See Ellingboe, E. K., and Salzberg.)

Salzer, Walter, Wuppertal-Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Hormone-like acting product and manufacturing the same. 2,281,956; May 5.

Samuel, Arthur L., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge apparatus. 2,281,717; May 5.

Sandhofer, Arthur. (See Reynolds, J. H., and Sandhofer.)

Schaelchlin, Walter, Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Centrifugal device. 2,282,249; May 5.

Schenk, Eduard, Oakdale, Pa. Electric welding. 2,281,805; May 5.

Schlichting, Otto, and A. Hrubesch, Ludwigshafen-on-Rhine, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Valuable vat dyestuffs of the dibenzanthrone and isodibenzanthrone series. 2,282,250; May 5.

Schmidt, Maximilian P. (See von Poser, G., and Schmidt.)

Schneider, Benjamin B. (See Podbielniak, Walter J., assignor.)

Schneider, Helmuth G. (See Bannon, L. A., and Schneider.)

Schneider, Minnie C., et al. (See Kogl, Frank, assignor.)

Schott, John E., New York, N. Y., assignor to Tide Water Associated Oil Company, Bayonne, N. J. Lubricating oil composition. 2,281,623; May 5.

Schroeder, Karl, Elmhurst, assignor to American Arch Company, New York, N. Y. Furnace wall. 2,281,951; May 5.

Schuette, Hermann. (See Stiasny, E., and Schuette.)

Schulman, Joseph, Los Angeles, Calif. Automobile attachment. 2,281,806; May 5.

Schultze, Helmuth A., assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Roll stop mechanism. 2,281,886; May 5.

Schlüssler, Heribert, Cologne, and W. Retter, Cologne-Deutz, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Water-soluble mothproofing agents. 2,281,624; May 5.

Schutz, Karl. (See Zerweck, W., Schutz and Hechtenberg.)

Schwarzmann, Wolfgang E., Longmeadow, and C. Strniste, Agawam, assignors to American Bosch Corporation, Springfield, Mass. Ignition coil and terminal connector therefor. 2,281,862; May 5.

Schwendt, Bernard J., Fort Thomas, Ky. Precast reinforced foundation for signal masts. 2,282,251; May 5.

Scott, Thomas R., and M. C. Field, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Incorporating polymerized aliphatic mono-olefins in polymerized styrene. 2,282,002; May 5.

Scott, Thomas R., R. C. Mildner, and T. E. D. Menzies, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Electric cable. 2,282,003; May 5.

Scott, Thomas R., and J. K. Webb, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Terminating electric cables. 2,282,004; May 5.

Scott, Walter J., Hinsdale, and G. Stuhlfauth, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Article coating apparatus. 2,282,252; May 5.

Scully, John T., Lawrence, N. Y., and G. H. Wyckoff, Mountain Lakes, N. J. Casting metal ingots and apparatus therefor. 2,281,718; May 5.

Servel, Inc. (See Hedlund, William T., assignor.)

Seyferth, Harold N., East Detroit, and I. J. Snader, assignors to Ex-Cell-O Corporation, Detroit, Mich. Grinding wheel dresser. 2,281,719; May 5.

Sharples Corporation, The. (See Lachle, Francis B., assignor.)

Shaub, Benjamin M., Northampton, Mass. Photometer. 2,282,253; May 5.

Shefts, William, New York, N. Y. Cup and saucer combination. 2,281,720; May 5.

Shell Development Company. (See De Simó, M., and McMillan, assignors.)

Shell Development Company. (See van Dijck, Willem J. D., assignor.)

Shell Development Company. (See von Fuchs, G. H., and Diamond, assignors.)

Shepherd, Leslie P. (See Christensen, C. J., and Shepherd.)

Sheppard, Samuel E., and W. Vanselow, assignors to Eastman Kodak Company, Rochester, N. Y. Phenazine and naphthazine fog inhibitor for photographic emulsions. 2,282,005; May 5.

Sherrill, Harry J., Youngstown, Ohio. Locomotive valve and valve gear. 2,282,093; May 5.

Shields, Charles B., Petersburg, Va., assignor to The Union Switch and Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,281,957; May 5.

Shimer, John M., Dallas, Tex., assignor to Oil Well Supply Company. Securing means for pump liners. 2,282,254; May 5.

Shinn, John V., Flushing, N. Y., and A. W. Michener, Claymont, Del., assignors to General Chemical Company, New York, N. Y. Drying process. 2,281,807; May 5.

Shobert, Erle I., II, assignor to Stackpole Carbon Company, St. Marys, Pa. Method and apparatus for prolonging the life of electric brushes. 2,282,094; May 5.

Shoup, Ransom F., Ardmore, assignor to The Shoup Voting Machine Corporation, Philadelphia, Pa. Voting machine. 2,281,603; May 5.

Shoup Voting Machine Corporation, The. (See Shoup, Ransom F., assignor.)

Signal Service Corporation. (See Haggart, John C., Jr., assignor.)

Silex Company, The. (See Wolcott, Frank E., assignor.)

Sinclair Glass Company. (See Morehead, James A., assignor.)

Singer Manufacturing Company, The. (See Enos, John P., assignor.)

Singer Manufacturing Company, The. (See Graesser, David A., assignor.)

Singer Manufacturing Company, The. (See Marsac L. C., and Graesser, assignors.)

Sirmay, Julius, assignor to Jacquard Knitting Machine Co., Inc., Philadelphia, Pa. Knitting machine. 2,281,721; May 5.

Sleeper & Hartley, Inc. (See Fisher, Clayton F., and Franks, assignors.)

Skinner, Bronson C., Dunedin, Fla. Coloring fruits and vegetables. 2,281,625; May 5.

Skinner, M. B., Company. (See Merrill, P. D., and Green, assignors.)

Skvortzoff, Alexander A., Sharon, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Bushing cap. 2,282,255; May 5.

Sloan, Clifford K., Wilmington, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Pigment and coating compositions containing the same. 2,282,006; May 5.

Smelik, Joseph M., Jessup, Pa. Suction draft creating apparatus. 2,282,256; May 5.

Smellie, Donald G., Canton, assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,281,863; May 5.

Smiley, Gilbert, Hingham, Mass. Switch. 2,281,808; May 5.

Smith, Allyne H., assignor to Aeration Processes, Inc., Columbus, Ohio. Container for holding liquid under pressure. 2,281,604; May 5.

Smith, Benjamin H., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Thermal type demand meter. 2,282,257; May 5.

Smith, Earl W., Chicago, Ill. Fish lure. 2,281,809; May 5.

Smith, Elmer L., Longmeadow, assignor to Package Machinery Company, Springfield, Mass. Wrapping machine. 2,281,887; May 5.

Smith, George E., assignor to The United States Electrical Tool Company, Cincinnati, Ohio. Sanding or polishing pad. 2,281,722; May 5.

Smith, Harry F., Lexington, assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,281,626; May 5.

Smith, Harvey E., assignor to A. Leslie Gordon, Portland, Oreg. Fluid pressure control device. 2,281,605; May 5.

Smith, Herman A., Holden, Mass., assignor to Rice Barton Corporation. Fabric spreading device for textile treating machines. 2,281,627; May 5.

Smith, L. C., & Corona Typewriters, Inc. (See Bradt, Charles H., assignor.)

Smith, Robert W., Folsom, N. Y., assignor to General Electric Company. Control of motor operated devices. 2,282,007; May 5.

Smith, Royal C., Wilberforce, Ohio. Hydraulic control mechanism. 2,282,008; May 5.

Smith, Thomas, Columbus, Ky. Retrieving device for pipes in deep wells. 2,282,095; May 5.

Snader, Howard B., Temple, assignor to Vanity Fair Silk Mills, Reading, Pa. Stocking of the strain absorber type. 2,281,606; May 5.

Snader, Ira J., assignor to Ex-Cell-O Corporation, Detroit, Mich. Spindle structure. 2,281,628; May 5.

Snader, Ira J. (See Seyferth, H. N., and Snader.)

Snader, Ira J., assignor to Ex-Cell-O Corporation, Detroit, Mich. Grinding wheel dresser. 2,281,723; May 5.

Snavely, Clarence S., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Mounting means for relays. 2,281,958; May 5.

Snow, William, New York, N. Y. Device for preventing colic in feeding infants. 2,281,629; May 5.

Snyder, Gilbert J., assignor to Mastic Asphalt Corporation, South Bend, Ind. Saturating machine. 2,281,724; May 5.

Snyder, Gilbert J., assignor to Mastic Asphalt Corporation, South Bend, Ind. Panel feed mechanism. 2,281,725; May 5.

Snyder, James E., Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Plasticized and non-plasticized double-wall bags. 2,282,258; May 5.

Snyder, Robert H., Maple Shade, N. J., assignor of one-half to Stephen Haas, Philadelphia, Pa. Apparatus for controlling heating systems and the like. 2,281,888; May 5.

Socony-Vacuum Oil Company. (See Adams, Gale L., assignor.)

Solvay Process Company, The. (See Rogers, Donald A., assignor.)

Sorensen, Louis N., Port Clinton, Ohio, assignor to The Celotex Corporation, Chicago, Ill. Method of and apparatus for perforating gypsum lath or the like. 2,282,259; May 5.

Southard, George W., Hoquiam, Wash. Sanitary receptacle. 2,281,630; May 5.

Speed Products Company. (See Crosby, Stephen A., assignor.)

Spelker, Albert J., Toledo, Ohio. Electroforming marking tools. 2,282,260; May 5.

Spencer Lens Company. (See Bennett, A. H., and Estey, assignors.)

Spencer Lens Company. (See Osterberg, H., and Critoph, assignors.)

Spencer Lens Company. (See Peck, W. F., and Sperass, assignors.)

Sperazz, Charles M. (See Peck, W. F., and Sperass.)

Spillmann, Max, Clifton, and R. M. Watson, Bloomfield, assignors to Worthington Pump and Machinery Corporation, Harrison, N. J. Centrifugal pump. 2,281,631; May 5.

Stackpole Carbon Company. (See Shobert, Erle I., II, assignor.)

Standard Oil Development Company. (See Ashlock, Harold J., assignor.)

Standard Oil Development Company. (See Bannon, L. A., and Schneider, assignors.)

Standard Oil Development Company. (See Connolly, Gerald C., assignor.)

Standard Oil Company, et al. (See Keith, P. C., Jr., and Roberts, assignors.)

Standard Oil Development Company. (See Kimberlin, Charles N., assignor.)

Standard Oil Development Company. (See Lieber, Eugene, assignor.)

Standard Oil Development Company. (See Tilton, Joshua A., assignor.)

Standard Oil Development Company. (See Whiteley, James M., Jr., assignor.)

Stanley Home Products, Inc. (See Glaskowsky, Nicholas A., assignor.)

Stanley Works, The. (See Parsons, Stuart W., assignor.)

Stanolind Oil and Gas Company. (See Cloud, Raymond T., assignor.)

Stanolind Oil and Gas Company. (See Hawley, Paul F., assignor.)

Staples, Crawford E., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for detecting the approach of railway trains. 2,281,890; May 5.

Stapling Machines Co. (See Babcock, Guilford C.)

Stauffer Chemical Company. (See Mohr, Albert C., assignor.)

Stauffer Chemical Company. (See Wieder, Ferd W., assignor.)

Stauffer, Robert E. (See Russell, J., and Stauffer.)

Stechbart, Bruno, assignor to The Bell & Howell Company, Chicago, Ill. Intermittent feed device. 2,281,726; May 5.

Steegstra, John R., Bridgeport, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. High frequency testing apparatus. 2,282,261; May 5.

Steel Heddle Manufacturing Company. (See Kaufmann, John J., Jr., assignor.)

Steinberg, Abe I., Chicago, Ill. Article of furniture. 2,282,262; May 5.

Steiner, Oscar, Irondequoit, assignor to The Folmer Graflex Corporation, Rochester, N. Y. Camera with direct-vision view finder. 2,282,263; May 5.

Steps, Robert A., Los Angeles, Calif. Jacket for drill pipe couplings. 2,281,632; May 5.

Stewart, Eleanor C., Pasadena, Calif. Sifter. 2,281,727; May 5.

Stiasny, Edmund, Nya Kungshult, Helsingborg, Sweden, and H. Schuette, Mannheim, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Producing substances having tanning action. 2,282,264; May 5.

Stitzer, William E., assignor to Latch Coupling Company, Muskogee, Okla. Pipe coupling. 2,281,633; May 5.

Stone, John B., Tulsa, Okla., and A. J. Teplitz, Penn Township, Allegheny County, Pa., said Stone assignor to The Dow Chemical Company, Midland, Mich., and said Teplitz assignor to Gulf Research & Development Company, Pittsburgh, Pa. Earth consolidation. 2,281,810; May 5.

Stone, Sol, Brooklyn, N. Y. Drawer construction. 2,281,959; May 5.

Stössel, Max, New York, N. Y., assignor to O. Stossel, Chicago, Ill. Production of spray metal negatives of models. 2,281,634; May 5.

Stossel, Otto. (See Stössel, Max, assignor.)

Strauss, Charles, assignor to Arvey Corporation, Chicago, Ill. Plastic film material. 2,281,635; May 5.

Strauss, Frank A. (See Barsky, G., and Strauss.)

Strickler, Walter B., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Tandem telephone system. 2,281,636; May 5.

Strniste, Charles. (See Schwarzmann, W. E., and Strniste.)

Stuart, Elizabeth R. B. (See Stuart, K., and Wilson, assignors.)

Stuart, Elizabeth R. B. (See Wilson, Allen B., assignor.)

Stuart, Kimberly, Menasha, Wis., and A. B. Wilson, Evanston, Ill., assignors, by mesne assignments to Elizabeth R. B. Stuart, Menasha, Wis. Fastening and sealing rim and article embodying it. 2,281,889; May 5.

Stuart, Kimberly, et al. (See Wilson, Allen B., assignor.)

Stuhlfauth, George. (See Scott, W. J., and Stuhlfauth.)

Stuppy, Tony G. (See Boe, W., and Stuppy.)

Submarine Signal Company. (See Williams, Robert L., assignor.)

Sudlow, Fred E. (See Holsclaw, Neil, assignor.)

Sulzer Freres, Societe Anonyme. (See Oswald, Hans, assignor.)

Sukumlyn, Thomas W., Los Angeles, Calif. Cathode ray television receiver. 2,281,637; May 5.

Sukumlyn, Thomas W., Los Angeles, Calif. Electron camera. 2,281,638; May 5.

Sulzer Freres Societe Anonyme. (See Balmer, Richard, assignor.)

Sundstrand Machine Tool Co. (See Ekstrom, Gustaf H., assignor.)

Swales, William E., Ste. Anne de Bellevue, Quebec, assignor to The Honorary Advisory Council for Scientific and Industrial Research, Ottawa, Ontario, Canada. Anthelmintic tablet. 2,282,290; May 5.

Swallen, Lloyd C., Argo, and H. Reintjes, Berwyn, Ill., assignors to Corn Products Refining Company, New York, N. Y. Extraction apparatus and method. 2,282,265; May 5.

Swan, James A., Springfield, Mo. Flixi-bar rotor-type lawn mower. 2,281,639; May 5.

Swaskey, Henry S., Monessen, Pa. Coaxial propeller drive and mounting. 2,282,266; May 5.

Swenson, Carl E., and F. M. Potgieter, Rockford, assignors to Borg-Warner Corporation, Chicago, Ill. Tractor hitch. 2,282,267; May 5.

Talbot, Ralph H., assignor to Eastman Kodak Company, Rochester, N. Y. Manufacture of vinyl resin film and sheeting. 2,282,009; May 5.

Talboys, Henry H., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Grinder. 2,282,096; May 5.

Taylor, Warren G., Chicago, Ill. Nonemitting electrode structure. 2,282,097; May 5.

Taylor, Warren G., Chicago, Ill. Carbon electrode. 2,282,098; May 5.

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Geiger, Max, assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie Zehlendorf. (See Leyn, Albrecht, assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Liebau, M., and Bock, assignors.)

Teletype Corporation. (See Potts, Louis M., assignor.)

Teletype Corporation. (See Worley, John L., assignor.)

Ten Cate, Arthur C., assignor to Oak Manufacturing Company, Chicago, Ill. Preselector. 2,281,640; May 5.

Teplitz, Abraham J. (See Stone, J. B., and Teplitz.)

Terroni, Teseo B. D., and J. B. McCusker, Liverpool, England, assignors to Associated Telephone and Telegraph Company, Chicago, Ill. Electrical signaling system. 2,282,271; May 5.

Terry, Victor J., Aldwych, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Picture transmission, television, and the like. 2,281,891; May 5.

Thelen, Edmund, Santa Maria, Calif., assignor to O. C. Field Gasoline Corporation. Manufacture of asphaltic material. 2,281,728; May 5.

Thiokol Corporation. (See Patrick, Joseph C., assignor.)

Tholstrup, Henry L. (See Nichols, H. J., and Tholstrup.)

Thomas, David W., assignor to Youngstown Metal Products Company, Youngstown, Ohio. Metal ironing board. 2,281,729; May 5.

Thomas, Richard, Los Angeles, Calif., assignor to Thomascolor Corporation. Multiple photography. 2,281,607; May 5.

Thomascolor Corporation. (See Thomas, Richard, assignor.)

Thommen, Hans, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Electric circuit breaker. 2,282,268; May 5.

Thompson, Jesse C., Kansas City, Kans. Bottle handling apparatus. 2,281,730; May 5.

Thompson, Howard A., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Coded track circuits for railway traffic control 2,282,099; May 5.

Thompson, Morris, Nyack, N Y. Controller for telephonic recording. 2,282,100; May 5.

Threads Incorporated. (See Davis, George C., Jr., assignor.)

Tide Water Associated Oil Company. (See Cook, Elmer W., assignor.)

Tide Water Associated Oil Company. (See Schott, John E., assignor.)

Tilton, Joshua A., Baton Rouge, La., assignor to Standard Oil Development Company. Producing oxidation inhibitors. 2,281,892; May 5.

Toledo Scale Company. (See Hem, Halvor O., assignor.)

Tolnai, Gábor K., assignor to Aktiebolaget Gerh. Arehns Mekaniska Verkstad, Stockholm, Sweden. Device for remote control. 2,282,010; May 5.

Tone, Frederick F., Montclair, N. J., assignor to Kalva Venders, Inc., Chicago, Ill. Vending machine. 2,282,269; May 5.

Toop, Frederick, York, Pa. Mechanism for converting rotary motion to reciprocatory motion. 2,281,641; May 5.

Toothacre, Floyd E., Stockton, Calif. Vertical framing construction. 2,281,864; May 5.

Torrington, William P. (See Ditto, M. W., and Torrington.)

Towner, William B., Westtown, Pa., assignor to General Chemical Company, New York, N. Y. Drying process. 2,281,811; May 5.

Trobeck, Karl G. (See Bergström, H. O. V., and Trobeck.)

Trumbull Asphalt Company. (See Miller, James, Jr., assignor.)

Tsekrekas, Angelo, et al. (See Waite, Charles F., assignor.)

Tuerck-Mackenzie Company. (See Tuerck, Oscar, assignor.)

Tuerck, Oscar, assignor to Tuerck-Mackenzie Company, Portland, Oreg. End former for concrete pipe. 2,281,731; May 5.

Tunick, Harry, Rye, N. Y., assignor to Radio Corporation of America. Detection of frequency modulated waves. 2,282,101; May 5.

Tunick, Harry, Rye, N. Y., assignor to Radio Corporation of America. Signaling. 2,282,102; May 5.

Tunick, Harry, Rye, N. Y., assignor to Radio Corporation of America. Frequency modulation. 2,282,103; May 5.

Tunick, Harry, Rye, N. Y., assignor to Radio Corporation of America. Reception of angular velocity modulated waves. 2,282,104; May 5.

Tunick, Harry, Rye, N. Y., assignor to Radio Corporation of America. Detection of frequency modulated waves. 2,282,105; May 5.

Tyler Laboratories, Incorporated. (See Witte, Paul J., assignor.)

Ufer, Hanns, and A. Weickmann, Ludwigshafen-on-Rhine, Germany, assignors, by mesne assignments, to E. I. du Pont de Nemours and Company, Wilmington, Del. Production of superpolyamides. 2,281,961; May 5.

Uhlemann Optical Co. of Illnois. (See Uhlemann, W. R., and Booth, assignors.)

Uhlemann, William R., Evanston, and L. J. Booth, assignors to Uhlemann Optical Co. of Illinois, Chicago, Ill. Ophthalmic mounting. 2,281,812; May 5.

Ulanet, Herman, Newark, N. J. Dispensing and bottle closure device. 2,281,642; May 5.

Uline, Bernard, Nappanee, Ind. Sliding tray for high chairs. 2,281,813; May 5.

Uline, Walter C., Nappanee, Ind. Chair. 2,281,732; May 5.

Ulmer, William L. (See Bialosky, J. M., and Merlub-Sobel, assignors.)

Underwood, James W., Pittsfield, Mass., assignor to General Electric Company. Ceramic-to-metal seal. 2,282,106; May 5.

Union Oil Company of California. (See Bray, Ulric B., assignor.)

Union Oil Company of California. (See Merrill, David R., assignor.)

Union Switch & Signal Company (See Failor, Charles W., assignor.)

Union Switch & Signal Company, The. (See Nicholson, Frank H., assignor.)

Union Switch and Signal Company, The. (See Shields Charles B., assignor.)

Union Switch & Signal Company, The. (See Snavely, Clarence S., assignor.)

Union Switch & Signal Company, The. (See Staples, Crawford E., assignor.)

Union Switch & Signal Company, The. (See Thompson, Howard A., assignor.)

Unit Rig & Equipment Company. (See Carter, Ray E., assignor.)

United Shoe Machinery Corporation. (See Cuozzo, Michele, assignor.)

United Shoe Machinery Corporation. (See Fossa, Joseph, assignor.)

United Shoe Machinery Corporation. (See Latham, Harold A. M., assignor.)

United States Electrical Tool Company, The. (See Smith, George E., assignor.)

United States Patent Development and Royalty Company. (See Neuman, Jacob J., assignor.)

United States Rubber Company. (See Bishop, J. W., and Bull, assignors.)

United States Rubber Company. (See Keys, W. C., Younglove, Gartrell, and Hambidge, assignors.)

Universal-Engel Paper Box Co. (See Engel, William, assignor.)

Universal Form Clamp Co. (See De Canio, Dominick M., assignor.)

Universal Oil Products Company. (See Mattox, William J., assignor.)

Universal Oil Products Company. (See Watson, Kenneth M., assignor.)

Universal X-Ray Products, Inc. (See Heger, Joseph J., assignor.)

Utility Fan Corporation. (See Quave, Oscar E., assignor.)

Vac-Control Manufacturing Company. (See Wylie, William H., assignor.)

Vacquier, Victor V., Oakmont, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Apparatus for logging bores. 2,281,960; May 5.

Vallone, Joseph M., assignor to Barcalo Manufacturing Company, Buffalo, N. Y. Article of furniture. 2,282,270; May 5.

Van der Mark, Jan, Eindhoven, Netherlands, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Television scanning apparatus. 2,281,893; May 5.

Van Dijck, Willem J. D., The Hague, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Separating high molecular mixtures. 2,281,865; May 5.

Vanity Fair Silk Mills. (See Snader, Howard B., assignor.)

Van Norman Machine Tool Company. (See Curtis, Frank W., assignor.)

Vanselow, Waldemar. (See Sheppard, S. E., and Vanselow.)

Van Tongeren, Hermannus, Heemstede, Netherlands. Dust sampler. 2,281,962; May 5.

Van Tongeren, Hermannus, Heemstede, Netherlands. Sound deadener. 2,281,963; May 5.

Varian, Russell H. (See Hansen, W. W., and Varian.)

Veinott, Cyril G. (See Else, H. D., and Veinott.)

Victor Adding Machine Co. (See Mehan, Thomas O., assignor.)

Vincent, Alfred S., Los Angeles, Calif. Viewing device for cooking ranges. 2,281,608; May 5.

Vischer, Alfred, Jr., Park Ridge, assignor to Vischer Products Company, Chicago, Ill. Pressure cooker and similar container. 2,282,011; May 5.

Vischer Products Company. (See Vischer, Alfred, Jr., assignor.)

Vogel, Emma B., executrix. (See Vogel, Werner G., deceased.)

Vogel, Werner G., deceased, late of Louisville, Ky., E. B. Vogel, Louisville, Ky., executrix. Spring supported scraper blade for conduits of heat exchangers. 2,282,298; May 5.

Von Fuchs, George H., Wood River, and H. Diamond, Alton, Ill., assignors to Shell Development Company, San Francisco, Calif. Lubricating oil composition. 2,281,894; May 5.

Von Poser, Gottlieb, Wiesbaden, and P. Schmidt, Wiesbaden-Biebrich, Germany. Light sensitive material. 2,281,895; May 5.

Vrooman, Philip E. (See Pepper, W. M., Jr., and Vrooman.)

Vulcan Proofing Company. (See Lewis, Robert R., assignor.)

Wagstaffe, Charles F. A. (See James, I. R. J., and Wagstaffe.)

Wahlberg, Nils E., assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Headlamp. 2,281,643; May 5.

Waite, Charles F., assignor of one-third to A. Tsekrekas, and one-third to C. Poravas, Boston, Mass. Self-sharpening razor. 2,282,012; May 5.

Wales, Jess P. (See Moerlin, W. J., Berndt, and Wales.)

Wallberg, Ivor O., San Luis Obispo, Calif. Gravel pump. 2,281,733; May 5.

Walsh, Carroll H. (See Pittman, R. R., and Walsh.)

Walter, Charles T., assignor to Industrial Patents Corporation, Chicago, Ill. Preparation of gelatin stock. 2,281,609; May 5.

Walters, Oswald H. (See Harrower, P., Cooper, and Walters.)

Waltzinger, August F., Elmhurst, Long Island, assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y. Venetian blind tilting mechanism. 2,282,272; May 5.

Watson, John E., New Rochelle, and C. B. McBride, assignors to Prat-Daniel Corporation, Port Chester, N. Y. Dust collector. 2,281,610; May 5.

Watson, Kenneth M., assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons. 2,282,273; May 5.

Watson, Ralph M. (See Spillmann, M., and Watson.)

Watson, Thomas J., Jr., assignor to International Business Machines Corporation, New York, N. Y. Typewriter display device. 2,282,107; May 5.

Watson-Williams Manufacturing Company. (See Goff, Harold E., assignor.)

Watts Regulator Company. (See Horne, Burchard E., assignor.)

Weathers, Paul, Audubon, N. J., assignor to Radio Corporation of America. Inverse feedback amplifier. 2,281,644; May 5.

Webb, John K. (See Scott, T. R., and Webb.)

Weed, James M., Schenectady, N. Y., assignor to General Electric Company. Voltage regulator. 2,281,645; May 5.

Wehmiller, Frederick W. (See Herold, J. L., Nekola, and Wehmiller.)

Weickmann, August. (See Ufer, H., and Weickmann.)

Weimont, Joseph, Bogota, N. J., assignor to A. Kimball Company, New York, N. Y. Marking machine. 2,281,896; May 5.

Weiswasser, Abby H. and F., Philadelphia, Pa. "Vinyon" bandage and method of making and setting it. 2,282,274; May 5.

Weiswasser, Frederick. (See Weiswasser, A. H., and F.)

Weitmann, Otto, Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Time delay circuit. 2,282,108; May 5.
Westburgh, Arthur E., Jamestown, N. Y. Lubricator. 2,282,275; May 5.
Western Electric Company. (See Bandur, Adolph F., assignor.)
Western Electric Company. (See Barrans, W. T., and Cole, assignors.)
Western Electric Company. (See Bennett, L. E., and Dahl, assignors.)
Western Electric Company. (See Scott, W. J., and Stuhlfauth, assignors.)
Western Electric Company. (See Terry, Victor J., assignor.)
Western Union Telegraph Company, The. (See Buckingham, William D., assignor.)
Western Union Telegraph Company, The. (See Long, J. W., and Roberts, assignors.)
Western Union Telegraph Company. (See Randall, Gerald A., assignor.)
Western Union Telegraph Company. (See Randall, G. A., and Rice, Jr., assignors.)
Westinghouse Electric & Manufacturing Company. (See Baker, B. P., and Bakken, assignors.)
Westinghouse Electric & Manufacturing Company. (See Bakken, Andrew H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Brown, Louis M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Burgwin, Stephen L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Cumming, James M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Else, H. D., and Veinott, assignors.)
Westinghouse Electric & Manufacturing Company. (See Emerson, Roy W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Fries, Wilhelm, assignor.)
Westinghouse Electric & Manufacturing Company. (See Gulliksen, Finn H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Henninger, Philip E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hansel, F. R., and Larsen, assignors.)
Westinghouse Electric & Manufacturing Company. (See Hoop, John G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Johnson, F. B., and Bakken, assignors.)
Westinghouse Electric & Manufacturing Company. (See Longwell, Robert R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lynn, Clarence, assignor.)
Westinghouse Electric & Manufacturing Company. (See McDonald, H. G., and Cumming, assignors.)
Westinghouse Electric & Manufacturing Company. (See Moberly, Lawrence E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Murcek, Slavo J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Newton, John S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Oman, Carl, assignor.)
Westinghouse Electric & Manufacturing Company. (See Opsahl, Alert M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Rambo, R. E., and Jenkins, assignors.)
Westinghouse Electric & Manufacturing Company. (See Reagan, Maurice E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Schaelchlin, Walter, assignor.)
Westinghouse Electric & Manufacturing Company. (See Skvortzoff, Alexander A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Smith, Benjamin H.)
Westinghouse Electric & Manufacturing Company. (See Steegstra, John R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Whittaker, Charles C., assignor.)
Wetzsteon, Raymond V., Butte, Mont. Air conditioning system. 2,282,013; May 5.
Wetzsteon, Raymond V., Butte, Mont. Control means for vacuum heating systems. 2,282,014; May 5.
Wheel Aligning Necessities, Inc. (See Castiglia, Biagis, assignor.)
Wheeling Steel Corporation. (See Fuhrmann, Karl P., assignor.)
White, Charley L., Smackover, Ark., assignor to Phillips Petroleum Company. Well equipment. 2,281,899; May 5.
White, Frank L. (See Brooker, L. G. S., and White.)
White, Melbourne H., Miami, Fla., assignor to Koolerkoil Company. Water cooling device. 2,282,276; May 5.
White, S. S., Dental Manufacturing Company, The. (See Angell, Robert C., assignor.)
Whitehead, William, Rye, N. Y., assignor to Celanese Corporation of America. Making stiffened fabrics. 2,281,646; May 5.
Whitehead, William, Rye, N. Y., assignor to Celanese Corporation of America. Yarn and making it. 2,281,647; May 5.
Whiteley, James M., Jr., Westfield, N. J., assignor to Standard Oil Development Company. Solvent treating process. 2,281,897; May 5.
Whitman, Vernon E., assignor to The Folmer Graflex Corporation, Rochester, N. Y. Photographic camera shutter control means. 2,282,291; May 5.
Whittaker, Charles C., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Transfer system for electrically operated vehicles. 2,281,734; May 5.
Whitten, Owen M., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Friction coupling disk. 2,281,898; May 5.
Whittier, Elmer S., Bristol, assignor to The Cooper Oven Thermometer Company, Pequabuck, Conn. Thermometer. 2,282,277; May 5.
Wieder, Ferd W., Berkeley, Calif., assignor to Stauffer Chemical Company. Dusting composition. 2,281,735; May 5.
Wieking, William C., Woodhaven, assignor to R. Hoe & Co., Inc., New York, N. Y. Control mechanism for printing machines. 2,281,900; May 5.
Wilder, George H. (See Bren, B. C., Hopkins, and Wilder.)
Wilder, George H. (See Hopkins, J. H., and Wilder.)
Wiles, Everett R., Barnsdall, assignor to Bareco Oil Company, Tulsa, Okla. Producing a chlorinated mineral oil and the oil resulting therefrom. 2,281,648; May 5.
Wilkening Manufacturing Company. (See Engelhardt, Carl F., assignor.)
Williams, Burdell S., Dayton, Ohio, assignor to Chrysler Corporation, Detroit, Mich. Air conditioning unit. 2,282,015; May 5.
Williams, Ivan A., Portland, Oreg. Ratchet mechanism. 2,281,866; May 5.
Williams, John J., assignor to Hazel-Atlas Glass Company, Wheeling, W. Va. Snap-on closure. 2,281,649; May 5.
Williams, Robert L., Newton, assignor to Submarine Signal Company, Boston, Mass. Diaphragm whistle. 2,281,611; May 5.
Willoughby, Mark E., Superior, Wis. Torch support. 2,281,814; May 5.
Wilson, Allen B. (See Stuart, K., and Wilson.)
Wilson, Allen B., Evanston, Ill., assignor, by mesne assignments, of one-half to K. Stuart, and one-half to E. R. B. Stuart, both of Menasha, Wis. Rim and rimmed article. 2,281,901; May 5.
Wingfoot Corporation. (See Donnell, Lloyd H., assignor.)
Wingfoot Corporation. (See Gibbons, Henry G., assignor.)
Wingfoot Corporation. (See Snyder, James A., assignor.)
Winthrop Chemical Company. (See Pohls, P., and Behnisch, assignors.)
Winthrop Chemical Company. (See Salzer, Walter, assignor.)
Wirthsen Associates, Inc. (See Larsen, Louis G., assignor.)
Wisconsin Heating and Draft Control Company. (See Firehammer, Welton E., assignor.)
Wisticenus, George F., South Orange, assignor to Worthington Pump and Machinery Corporation, Harrison, N. J. Circulating pump for steam generators. 2,281,650; May 5.
Witte, Paul J., New York, assignor to Tyler Laboratories, Incorporated, Brooklyn, N. Y. Iodine compound and producing the same. 2,281,612; May 5.
Wittel, Otto, assignor to Eastman Kodak Company, Rochester, N. Y. Film support assembly. 2,282,016; May 5.
Wittenburg, George M., Cleveland, Ohio. Hand tool for upholstery work. 2,281,736; May 5.
Witz, Sidney R., assignor to J. and L. Chaplik, doing business as J. C. Plating Works, Chicago, Ill. Chair. 2,281,902; May 5.
Woelfer, Frank C., Jr., assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio. Discharge nozzle. 2,281,737; May 5.
Wolcott, Frank E., West Hartford, Conn. Food dispenser. 2,281,651; May 5.
Wolcott, Frank E., West Hartford, Conn., assignor to The Silex Company. Coffee maker bowl support. 2,281,652; May 5.
Wolcott, Frank E., West Hartford, Conn. Dispenser. 2,281,738; May 5.
Wolf Brothers, et al. (See Wolf, Howard A., assignor.)
Wolf, Elias, et al. (See Wolf, Howard A., assignor.)
Wolf, Howard A., Philadelphia, Pa., assignor to L., E., H. A., and W. L. Wolf, copartners trading and doing business as Wolf Brothers. Method and apparatus for making paper bags. 2,281,964; May 5.
Wolf, Howard A., et al. (See Wolf, Howard A., assignor.)
Wolf, Louis, et al. (See Wolf, Howard A., assignor.)
Wolf, Walter L., et al. (See Wolf, Howard A., assignor.)
Wollthan, Heinz, Marl-Drewer, and W. Becker, Cologne-Mulheim, Germany, assignors to Jasco Incorporated. Polymerizing butadiene hydrocarbons. 2,281,613; May 5.
Wood, John, Manufacturing Company, Inc. (See Woodford, Joseph C., assignor.)
Woodford, Joseph C., Wayne, assignor to John Wood Manufacturing Company, Inc., Conshohocken, Pa. Variable throw crank. 2,281,903; May 5.

Works, J. C., Plating Works. (See Witz, Sidney A., assignor.)
Worley, John L., Elmwood Park, assignor to Teletype Corporation, Chicago, Ill. Portable tray. 2,281,653; May 5.
Worthington Pump and Machinery Corporation. (See Spillmann, M., and Watson, assignors.)
Worthington Pump and Machinery Corporation. (See Wislicenus, George F., assignor.)
Wright, Archie H., assignor of forty per cent to F. E. Chalman, San Francisco, Calif. Electrical connector. 2,281,730; May 5.
Wulle, William A., and H. F. Dake, assignors to The Pyle-National Company, Chicago, Ill. Connector. 2,281,654; May 5.
Murtele, Allan R., New Roads, La. Harvester. 2,281,904; May 5.
Wyckoff, George H. (See Scully, J. T., and Wyckoff.)
Wylie, William H., assignor to Vac-Control Manufacturing Company, Inc., Oklahoma City, Okla. Receiving roll adjusting means for web winding machines. 2,281,905; May 5.
Wysong, James R., assignor to Larus & Brother Co., Inc., Richmond, Va. Package conveying, closing, and sealing machine. 2,282,278; May 5.
Wyss, Escher, Maschinenfabriken Aktiengesellschaft. (See Keller, Curt, assignor.)
Xenis, Constantine P., Little Neck, assignor to Consolidated Edison Company of New York, Inc., New York, N. Y. Limiter lug. 2,282,279; May 5.
Yale & Towne Manufacturing Company, The. (See Rolph, Henry D., assignor.)
Yogg, Howell J., Newark, N. J. Folding display device. 2,282,280; May 5.
Young, George E. (See Bills, C. H., and Young.)
Young, Otto W., Maplewood, N. J., assignor to General Motors Corporation, Detroit, Mich. Oil seal or guard. 2,281,905; May 5.
Younglove, James A. (See Keys, W. C., Younglove, Gartrell, and Hambridge.)
Youngstown Metal Products Company. (See Thomas, David W., assignor.)
Zanger, Louis, Brooklyn, N. Y. Safety device for scaffolds. 2,281,966; May 5.
Zazvorka, Joseph R., Los Angeles, Calif. Wall construction. 2,281,967; May 5.
Zerweck, Werner, and K. Schütz, Frankfort-on-the-Main-Fechenheim, and W. Hechtenberg, Frankfort-on-the-Main, Germany, assignors to General Aniline & Film Corporation, New York, N. Y. Sulphur dyestuffs. 2,281,968; May 5.
Ziegler, Albert H. (See Madsen, M., and Ziegler.)
Zippay, John, Charlerol, Pa. Nonskid device. 2,281,655; May 5.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 5TH DAY OF MAY, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Chocolate and preparing the same, High melting point. F. H. Penn. Re. 22,089; May 5.
Clutch. C. W. Higgs. Re. 22,088; May 5.
Control device for radio receivers and the like, Tuning. R. B. Albright. Re. 22,087; May 5.
Fabric, Making felted mineral. E. R. Powell. Re. 22,090; May 5.
Fuse. A. G. Steinmayer. Re. 22,092; May 5.
Sheathing system. N. Rippen. Re 22,091; May. 5.

LIST OF PLANT INVENTIONS

Plant, Rose. R. L. Byrum. 513; May 5.
Plant, Saintpaulia. F. Brockner. 514; May 5.

LIST OF DESIGN INVENTIONS

Applicator, Ultra-violet. N. A. Whittaker. 132,291; May 5.
Appliqué embroidery. J. Chase. 132,245; May 5.
Ashtray. O. H. Chandler, W. W. Chandler, and C. R. Copeland. 132,310; May 5.
Ashtray and card tray, Combination. E. S. Giovanni. 132,312; May 5.
Badge. F. de Ganahl. 132,272–3; May 5.
Badge or similar article. R. F. Baird. 132,269; May 5.
Badge or similar article. H. L. Cooper. 132,247; May 5.
Badge or similar article. G. Manzotti. 132,256; May 5.
Bag or the like. E. Meltzer. 132,300; May 5.
Bar or similar article, Grab. R. S. Sanford. 132,257–63; May 5.
Brooch or similar article. E. Dixon. 132,321–2; May 5.
Brooch or similar article. W. W. Hobe. 132,323–30; May 5.
Brooch or similar article. A. Katz. 132,331–8; May 5.
Cabinet. J. C. Fay. 132,295; May 5.
Cabinet. E. L. Junghanns. 132,255; May 5.
Camera, Television. W. C. Eddy. 132,274; May 5.
Case, Counter display. T. A. Schutz. 132,318; May 5.
Cleaner or the like, Suction. C. H. Taylor. 132,319; May 5.
Coat, Reversible hooded. J. M. Schwartz. 132,340; May 5.
Comb, Hair curler. F. J. Coakley. 132,271; May 5.
Confectionery product. F. H. Weise. 132,267; May 5.
Container for jewelry or the like, Display. J. F. Bermond. 132,309; May 5.
Cover or similar article, Casserole. A. P. Miller and J. C. Hestwood. 132,281; May 5.
Dish, Built-in soap. H. Dreyfuss. 132,249; May 5.
Dish or similar article, Baking. A. P. Miller. 132,280; May 5.
Fabric, Woven pile carpet. H. E. Wadely. 132,290; May 5.
Fan. L. Pearce. 132,315; May 5.
Fixture, Lighting. E. H. Greppin. 132,276; May 5.
Game board. E. W. Hampton. 132,313; May 5.
Game board. E. A. Wilson and I. N. Ross. 132,268; May 5.
Game device, Golf. Le R. Baker. 132,270; May 5.
Guard or similar article, Finger. N. P. Steckler. 132,287; May 5.
Gun unit, Cleaning. M. C. Thompson. 132,289; May 5.
Heating unit, Range surface. F. H. McCormick. 132,279; May 5.
Holder, Built-in tumbler. H. Dreyfuss. 132,250; May 5.
Holder, Necktie. L. Soukup and R. V. Westover. 132,286; May 5.
Holder or the like, Built-in paper. H. Dreyfuss. 132,248; May 5.
Holder, Pad. C. W. Jorgensen. 132,298; May 5.
Iron, Waffle. J. F. Faunce. 132,252; May 5.
Jar. C. W. Sawyer. 132,284; May 5.
Jar, Candy. C. W. Sawyer. 132,285; May 5.
Knife and fork, Combination. L. Schumacher. 132,317; May 5.
Lamp, Desk. L. Ludwig. 132,278; May 5.
Link or similar article, Bracelet. J. Dubinsky. 132,311; May 5.
Lock for metal castings or the like, Repair. L. B. Scott. 132,265; May 5.
Mat or similar article. S. A. Kowalski. 132,299; May 5.
Muff. M. Baer. 132,320; May 5.
Pan and dough cutter, Combination cake. R. V. Melville. 132,314; May 5.
Pennant or similar article. H. R. Ferguson. 132,253; May 5.
Pin, Lapel. P. P. Smilo. 132,341; May 5.
Pin or similar article. M. Eron. 132,251; May 5.
Plaque. L. B. Clarke. 132,246; May 5.
Plaque or similar article. W. R. Harvey. 132,254; May 5.
Poster or similar article. E. J. Genter. 132,275; May 5.
Reflector for tubular lamps. J. A. Hoeveler. 132,296; May 5.
Shoe. W. H. Benton. 132,292; May 5.
Snowshield or the like. R. Hubert. 132,297; May 5.
Spoon or other article of flatware. W. S. Warren. 132,308; May 5.
Stand, Cuspidor. V. A. Noel and A. H. Murray. 132,282; May 5.
Stand, Medical equipment. N. A. Noel and E. D. Beebe. 132,283; May 5.
Stimulating device, Baby's observation. A. B. Baum. 132,244; May 5.
Table or the like, Physician's examining. J. C. Fay. 132,293–4; May 5.
Testing instrument, Eye. R. F. E. Stegeman. 132,288; May 5.
Thermometer, mirror, and reflector device, Combination. B. Putterman. 132,316; May 5.
Toy figure and parachute, Combined. E. Kalep. 132,277; May 5.
Truck for a traveling crane. R. J. Stoddard. 132,301–7; May 5.
Undergarment or the like, Lady's. D. Miller. 132,339; May 5.
Vase. C. W. Sawyer. 132,264; May 5.
Watch and reflector button, Combined lapel. A. B. Shawl. 132,266; May 5.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 5TH DAY OF MAY, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive articles and apparatus therefor, Manufacture of. B. S. Cross. 2,281,558; May 5.
Accelerator and brake, Combined. E. C. Dunning. 2,281,755; May 5.
Acids and preparing the same, Substituted anthraquinones and the corresponding aroyl-benzoic. P. Kränzlein. 2,281,583; May 5.
Adding machine. C. H. Bradt. 2,281,742; May 5.
Adiabatic fractionating column. G. L. Adams. 2,281,906; May 5.
Adjustable stroke metering pump. M. Madsen and A. H. Ziegler. 2,281,777; May 5.
Adjusting means for web winding machines, Receiving roll. W. H. Wylie. 2,281,965; May 5.
Air conditioning. E. Altenkirch. 2,281,815; May 5.
Air conditioning and circulating apparatus. J. M. Funk. 2,281,874; May 5.
Air conditioning, Method and apparatus for. G. A. Peple, Jr. 2,281,615; May 5.
Air conditioning system. Le R. H. Plum. 2,282,210; May 5.
Air conditioning system. R. V. Wetzsteon. 2,282,013; May 5.
Air conditioning unit. B. S. Williams. 2,282,015; May 5.
Air vent valve. L. W. Eggleston. 2,281,566; May 5.
Airplane, Military. V. J. Burnelli. 2,281,673; May 5.
Aliphatic mono-olefins in polymerized styrene, Incorporating polymerized. T. R. Scott and M. C. Field. 2,282,002; May 5.
Alloy: *See*—
Dental amalgam alloy.
Alloys, Process for heat treating copper. F. R. Hensel and E. I. Larsen. 2,281,691; May 5.
Alloys, Treatment of silicon-iron. S. L. Burgwin. 2,282,182; May 5.
Amplifier circuit. F. H. Gulliksen. 2,282,182; May 5.
Antifriction bearing. R. W. Niles, A. H. Bethke, and W. Graves. 2,281,708; May 5.
Antiseptic fabric. R. H. Guinzburg. 2,282,181; May 5.
Antistatic device. H. Mouradian. 2,282,299; May 5.
Apparatus and method for adjusting transmitting antennas. G. H. Brown. 2,281,668; May 5.
Apparatus for controlling heating systems and the like. R. H. Snyder. 2,281,888; May 5.
Apparatus for detecting combustible gases. J. N. Burdick. 2,281,746; May 5.
Apparatus for detecting the approach of railway trains. C. E. Staples. 2,281,890; May 5.
Apparatus for drying paper and paper pulp samples. E. A. Mahannah. 2,282,070; May 5.
Apparatus for logging bores. V. V. Vacquier. 2,281,960; May 5.
Apparatus for precasting concrete stair structures. F. Kogl. 2,281,698; May 5.
Apparatus for seismograph prospecting. O. F. Ritzmann. 2,281,949; May 5.
Apparatus for servicing railway running gear. L. G. Plant and L. Richardson. 2,281,595; May 5.
Apparatus for straightening the edge of a dough sheet preparatory to coiling. A. O. Riordan. 2,281,802; May 5.
Applicator, Fluid. A. J. Kollmann. 2,281,773; May 5.
Applicator, Strip. H. M. Ratley. 2,282,245; May 5.
Arbor for tubes and spools and the like, Self-locking. G. B. Markle, Jr. 2,281,983; May 5.
Asphalt and container therefor, Method and apparatus for packaging. J. Miller, Jr. 2,281,854; May 5.
Asphaltic material, The manufacture of. E. Thelen. 2,281,728; May 5.
Assembling machine, Armature. E. W. Collins and M. L. Carpenter. 2,281,917; May 5.
Attachment for ladders, Supporting. K. W. Horton. 2,282,133; May 5.
Auto direction signal. W. Carson. 2,281,674; May 5.
Automatic brake. A. H. Chase and J. J. Talcott. 2,281,556; May 5.
Automatic telephone apparatus and circuits. G. R. Eaton. 2,281,564; May 5.
Automobile attachment. J. Schulman. 2,281,806; May 5.
Automobile heater. J. N. Peña. 2,282,087; May 5.
Bag feeding apparatus. L. Bischoff. 2,282,160; May 5.
Bag filling and closing apparatus. J. J. Neuman. 2,282,199; May 5.
Method and apparatus for making paper. H. A. Wolf. 2,281,964; May 5.
Bags, Plasticized and nonplasticized double wall. J. E. Snyder. 2,282,258; May 5.
Bait, Multiple plug. C. Heddon. 2,281,578; May 5.
Bandage and making and setting it, "Vinyon". A. H. and F. Weiswasser. 2,282,274; May 5.
Band-pass filter. N. M. Rust, J. D. Brailsford, and E. F. Goodenough. 2,281,621; May 5.
Band-pass filter. J. D. Brailsford. 2,282,113; May 5.
Barber chair attachment. S. R. Cravotta. 2,281,832; May 5.
Basket. D. A. Larkin. 2,281,701; May 5.
Bathing caps, Head bands for use in connection with. A. L. Gage. 2,282,220; May 5.
Beacon. E. R. Parsberg. 2,282,208; May 5.
Bearing: *See*—
Antifriction bearing.
Fluid cooled bearing.
Bearing arrangement. H. E. Balsiger. 2,281,658; May 5.
Beverages, Manufacture of essence containing packages for brewing. H. O. Irmscher. 2,281,582; May 5.
Beverages, Mixing. G. W. Newton. 2,281,791; May 5.
Blade stropping device. W. Reid. 2,281,953; May 5.
Blanks, Method and apparatus for making branch-fitting. W. J. Gazey. 2,281,573; May 5.
Blood, Treatment of. I. A. Parfentjev. 2,281,990; May 5.
Board: *See*—
Metal ironing board.
Bottle carrier. J. F. O'Brien. 2,281,592; May 5.
Bottle closure device, Dispensing and. H. Ulanet. 2,281,642; May 5.
Bottle handling apparatus. J. C. Thompson. 2,281,730; May 5.
Box. G. C. Babcock. 2,281,908; May 5.
Bracket for window furnishings. H. G. Balthasar. 2,281,659; May 5.
Brake: *See*—
Automatic brake.
Vehicle brake.
Brooder. J. Lyon. 2,281,776; May 5.
Brushes, Method and apparatus for prolonging the life of electric. E. I. Shobert. 2,282,094; May 5.
Building structure. R. G. Le Tourneau. 2,281,981; May 5.
Bushing cap. A. A. Skvortzoff. 2,282,255; May 5.
Cable: *See*—
Electric cable.
Cables, Terminating electric. T. R. Scott and J. K. Webb. 2,282,004; May 5.
Calibrating means for a radio receiver. M. Liebau and H. Böck. 2,282,068; May 5.
Calipers, Micrometer. J. W. Brister. 2,282,114; May 5.
Cam, Variable trimmer. G. Davenport. 2,282,038; May 5.
Camera, Electron. T. W. Sukumlyn. 2,281,638; May 5.
Camera, Reflex. E. S. Hineline. 2,282,284; May 5.
Camera shutter control means, Photographic. V. E. Whitman. 2,282,291; May 5.
Camera, stand or tripod. H. T. Olson. 2,282,285; May 5.
Camera with direct-vision view finder. O. Steiner. 2,282,263; May 5.
Cap: *See*—
Bushing cap.
Receptacle discharge cap.
Car: *See*—
Dining car.
Railroad passenger car.
Car coupling and supporting apparatus. A. J. Bazeley. 2,281,662; May 5.
Card printing machine. C. Grant. 2,281,763; May 5.
Carrier: *See*—
Bottle carrier.
Pull rod carrier.
Case: *See*—
Cigarette case.
Cash register. M. Demeulenaere. 2,282,120; May 5.
Cash register. W. H. Robertson. 2,281,803; May 5.
Catalysts, Executing reactions with the aid of fugitive. M. de Simó and F. M. McMillan. 2,281,924; May 5.
Cathode ray television receiver. T. W. Sukumlyn. 2,281,637; May 5.
Caustic alkali solutions, Improving the color of. J. S. Coey. 2,282,294; May 5.
Cement, Casting. J. B. Brockhurst. 2,282,027; May 5.
Cement for spark plug, Self-hardening. K. Dietz and F. Privinsky. 2,281,834; May 5.
Cementitious composition, Multicellular. J. Jahjah. 2,282,190; May 5.
Centrifugal device. W. Schaelchlin. 2,282,249; May 5.
Centrifugal liquid separator. M. S. Potter. 2,281,797; May 5.
Centrifugal pump. M. Spillmann and R. M. Watson. 2,281,631; May 5.

Centrifugal soil pipe casting machine. T. P. Anthony. 2,281,867; May 5.
Ceramic-to-metal seal. J. W. Underwood. 2,282,106; May 5.
Chain: *See*—
Rigid-back chain.
Chair: *See*—
Folding chair.
Chair. W. C. Uline. 2,281,732; May 5.
Chair. S. R. Witz. 2,281,902; May 5.
Chamber oven for the production of gas and coke. H. Koppers. 2,281,847; May 5.
Chassis frame. C. J. Hug. 2,282,227; May 5.
Chest, Cigarette. B. F. Ramsdell. 2,281,617; May 5.
Chloracrylic esters. M. A. Pollack. 2,282,088; May 5.
Cigarette case. J. J. Cobbe and J. Chapman. 2,282,036; May 5.
Cigarette making device. H. F. Richter. 2,281,861; May 5.
Cigarette paper holder. F. P. Bohr. 2,281,663; May 5.
Circuit: *See*—
Amplifier circuit. Time delay circuit.
Railway signal control circuit.
Circuit breaker. L. M. Brown. 2,281,743; May 5.
Circuit breaker. J. M. Cumming. 2,281,752; May 5.
Circuit breaker. A. B. Rypinski. 2,281,950; May 5.
Circuit breaker, Electric. H. Thommen. 2,282,268; May 5.
Circuit breaker system, Automatic reclosing. M. E. Reagan. 2,282,246; May 5.
Circuit interrupter. B. P. Baker and A. H. Bakken. 2,282,153; May 5.
Circuit interrupter. A. H. Bakken. 2,282,154; May 5.
Circuit interrupter. F. B. Johnson and A. H. Bakken. 2,282,228; May 5.
Circuits, Electrical impulse segregation. M. Geiger. 2,281,934; May 5.
Circuits for electronic apparatus, Safety. E. G. Gage. 2,281,572; May 5.
Circuits for railway traffic control, Coded track. H. A. Thompson. 2,282,099; May 5.
Circuits for thermionic apparatus, Safety. E. G. Gage. 2,281,571; May 5.
Cleaner: *See*—
Suction cleaner.
Clinch nut. C. T. Langmaid and P. E. Double. 2,281,699; May 5.
Closure for storage batteries. E. H. Riedesel, Jr. 2,281,800; May 5.
Clothesline shield. W. G. Faulkner. 2,282,216; May 5.
Clutch. R. E. Carter. 2,282,143; May 5.
Clutch. H. J. Nichols and H. L. Tholstrup. 2,282,084; May 5.
Coal washing apparatus, Debris separator for. H. Cappellanti. 2,281,827; May 5.
Coating apparatus, Article. W. J. Scott and G. Stuhlfauth. 2,282,252; May 5.
Coating composition. R. R. Lewis. 2,281,940; May 5.
Coffee extract, Production of soluble. J. L. Kellogg. 2,282,138–9; May 5.
Coffee maker bowl support. F. E. Wolcott. 2,281,652; May 5.
Colic in feeding infants, Device for preventing. W. Snow. 2,281,629; May 5.
Colorimeter. A. H. Bennett and R. S. Estey. 2,281,545; May 5.
Composition and preparing same. E. K. Ellingboe and P. L. Salzberg. 2,281,567; May 5.
Composition for insecticidal use. A. C. Mohr. 2,281,787; May 5.
Concrete pipe, End former for. O. Tuerck. 2,281,731; May 5.
Condenser. F. H. Drake. 2,282,215; May 5.
Conduit, Vitreous clay underground. A. P. McDonald. 2,282,073; May 5.
Connector: *See*—
Electrical connector.
Connector. W. A. Wulle and H. F. Dake. 2,281,654; May 5.
Container: *See*—
Dispensing container.
Container. L. F. Bennett and A. C. Dahl. 2,282,158; May 5.
Container and making the same. F. D. Palmer. 2,282,207; May 5.
Container sealing machine. W. B. Bronander. 2,282,162; May 5.
Container. W. Engel. 2,281,836; May 5.
Container. E. L. Mott. 2,281,707; May 5.
Container closure construction. C. T. Draper. 2,282,041; May 5.
Container for holding liquid under pressure. A. H. Smith. 2,281,604; May 5.
Containers, Making. K. P. Fuhrmann. 2,281,570; May 5.
Control apparatus, Distant. J. E. Jones. 2,281,844; May 5.
Control means for industrial heat-treating furnaces. J. G. Hoop. 2,282,226; May 5.
Control means for vacuum heating systems. R. V. Wetzsteon. 2,282,014; May 5.
Control mechanism for printing machines. W. C. Wieking. 2,281,900; May 5.
Control surface, Balanced. C. L. Johnson. 2,281,696; May 5.
Control system, Combustion. M. J. Maynard. 2,282,197; May 5.
Control system, Overdrive. E. M. Claytor. 2,281,916; May 5.
Control system, Temperature. W. H. Gille. 2,282,180; May 5.
Controller for telephonic recording. M. Thompson. 2,282,100; May 5.
Cooker and similar container, Pressure. A. Vischer, Jr. 2,282,011; May 5.
Cooking apparatus. H. L. Newell. 2,282,082; May 5.
Cooking ranges, Viewing device for. A. S. Vincent. 2,281,608; May 5.
Corsage holder. A. J. Pujol. 2,282,090; May 5.
Coupling: *See*—
Friction coupling. Pipe coupling.
Coupling. R. C. Kinsman. 2,281,882; May 5.
Coupling and reverse gear, Combined electric. J. S. Newton. 2,282,237; May 5.
Crank, Variable throw. J. C. Woodford. 2,281,903; May 5.
Crop divider for mowing machines. A. J. Barr and H. A. Arbic. 2,281,660; May 5.
Cup and saucer combination. W. Shefts. 2,281,720; May 5.
Cup, Teat. H. O. Berndt. 2,282,159; May 5.
Curling machine. A. Calleson and E. A. Calleson. 2,281,554; May 5.
Curling machine. W. I. Gladfelter and A. T. Bryant. 2,281,574; May 5.
Cutter: *See*—
Pinking cutter. Subsoil stalk cutter.
Cutter for bag closing machines, Tape. J. J. Neuman. 2,282,200; May 5.
Cutting stick. F. A. Green. 2,281,877; May 5.
Cycle timer, Variable. S. A. Bennett. 2,281,553; May 5.
Cylinder, Indicating. E. A. Doogan. 2,282,039; May 5.
Cylindrical grinding machine. C. G. Flygare and S. S. Mader. 2,281,930; May 5.
Decorated fabric. G. R. Cunnington. 2,282,169; May 5.
Decorative upholstery fabric. G. R. Cunnington. 2,282,168; May 5.
Defrosting system. A. F. Hoesel. 2,281,770; May 5.
Deodorizing device. N. A. Glaskowsky. 2,281,760; May 5.
Dental amalgam alloy. P. Poetschke. 2,281,991; May 5.
Detergents, Manufacture of alkali metal silicate. C. L. Baker. 2,282,018; May 5.
Device for synchronizing the speed of rotation of rotating bodies. H. Rinia. 2,281,954; May 5.
Diesel engine and gas compressor combination. R. Balmer. 2,281,821; May 5.
Dies, Making cutting. H. A. M. Latham. 2,281,587; May 5.
Differential pump. A. G. Gage. 2,281,933; May 5.
Dilator. J. R. Ross. 2,281,600; May 5.
Dining car. R. H. Horton. 2,281,581; May 5.
Dioctyl cyanamid as an insecticide. W. Moore. 2,281,856; May 5.
Dishwashing machine. A. H. Messler. 2,281,852; May 5.
Disk, Friction coupling. O. M. Whitten. 2,281,898; May 5.
Dispenser: *See*—
Fluid dispenser. Food dispenser.
Dispenser. F. E. Wolcott. 2,281,738; May 5.
Dispensing container. C. J. Christensen and L. P. Shepherd. 2,282,034–5; May 5.
Dispensing device. N. W. De Frees. 2,282,172; May 5.
Display device, Folding. H. J. Yogg. 2,282,280; May 5.
Display figures and the like, Construction for the digits of. C. Boulard. 2,281,741; May 5.
Distributor, Flow. O. E. Quave. 2,281,799; May 5.
Door bottom, Automatic. W. E. Balousek. 2,282,019; May 5.
Door lock. H. D. Rolph. 2,282,213; May 5.
Draft gear. A. G. Dean. 2,282,171; May 5.
Drain assembly. E. A. Pope. 2,282,212; May 5.
Drawer guide. J. F. Reid. 2,282,247; May 5.
Drawer construction. S. Stone. 2,281,959; May 5.
Drying means, Fish line. C. F. Quentin and D. E. Kassner. 2,282,147; May 5.
Drying process. J. V. Shinn and A. W. Michener. 2,281,807; May 5.
Drying process. W. B. Towner. 2,281,811; May 5.
Dry reagent for testing. A. Galat. 2,281,758; May 5.
Duplicating machine. E. J. Brasseur. 2,281,869; May 5.
Dust collector. J. E. Watson and C. B. McBride. 2,281,610; May 5.
Dust sampler. H. van Tongeren. 2,281,962; May 5.
Dusting composition. F. W. Wieder. 2,281,735; May 5.
Dynamoelectric machine. M. Henter. 2,282,283; May 5.
Dyestuffs of the dibenzanthrone and isodibenzanthrone series, Valuable vat. O. Schlichting and A. Hrubesch. 2,282,250; May 5.
Dyestuffs, Sulphur. W. Zerweck, C. Schutz, and W. Hechtenberg. 2,281,968; May 5.
Dynamo-electric machines, Parallel operation of. C. Lynn. 2,282,196; May 5.
Earth consolidation. J. B. Stone and A. J. Teplitz. 2,281,810; May 5.
Educational toy. G. R. Abernethy. 2,281,656; May 5.
Egg fork and opener. F. E. Morgan. 2,281,985; May 5.

Ejector and indicator for film handling apparatus, Combined. G. O. Helbing and A. E. Lechleitner. 2,282,051; May 5.
Electric appliance. A. A. Propernick. 2,282,089; May 5.
Electric cable. T. R. Scott, R. C. Mildner, and T. E. D. Menzies. 2,282,003; May 5.
Electric-circuit element. W. L. Barrow. 2,281,550; May 5.
Electric communication. W. L. Barrow. 2,281,551–2; May 5.
Electrical conductor. W. T. Barrans and P. M. Cole. 2,281,542; May 5.
Electric lantern. A. T. Hagerty. 2,281,839; May 5.
Electric welding. E. Schenk. 2,281,805; May 5.
Electrical accumulator. J. W. Bryce. 2,282,028; May 5.
Electrical connector. A. H. Wright. 2,281,739; May 5.
Electrical heating device. G. H. Morey. 2,282,078; May 5.
Electrode, Carbon. W. G. Taylor. 2,282,098; May 5.
Electrode and method, Resistance welding. P. E. Heninger. 2,282,186; May 5.
Electrode structure, Nonemitting. W. G. Taylor. 2,282,097; May 5.
Electroforming marking tools. A. J. Spelker. 2,282,260; May 5.
Electrolytic apparatus for forming tire molds. J. W. Bishop and A. W. Bull. 2,282,023; May 5.
Electrolytic cell. R. M. Hunter, L. B. Otis and R. D. Blue. 2,282,058; May 5.
Electromagnetic device. F. Krautwig. 2,282,065; May 5.
Electron discharge apparatus. A. L. Samuel. 2,281,717; May 5.
Electrostatic condenser and spacer therefor. S. Ruben. 2,281,602; May 5.
Engine: *See*—
Injection engine.
Engine and control apparatus, Internal combustion. H. Oswald. 2,281,987; May 5.
Ethyl dinitro salicylate as an insecticide. W. Moore. 2,291,857; May 5.
Eyeglass construction. G. E. Nerney. 2,282,236; May 5.
Eyeglass construction. A. Person. 2,282,242; May 5.
Extraction apparatus and method. L. C. Swallen and H. Reintjes. 2,282,265; May 5.
Fabric: *See*—
Antiseptic fabric. Decorative upholstery fabric.
Decorated fabric.
Fabric spreading device for textile treating machines. H. A. Smith. 2,281,627; May 5.
Fabrics, Making a stiffened. W. Whitehead. 2,281,646; May 5.
Fastener: *See*—
Garment fastener.
Fastening device. C. T. Langmaid. 2,281,700; May 5.
Feed device, Intermittent. B. Stechbart. 2,281,726; May 5.
Feed regulating mechanism. D. A. Graesser. 2,282,047; May 5.
Feedback amplifier, Inverse. J. M. Riddle, Jr. 2,281,618; May 5.
Feedback amplifier, Inverse. P. Weathers. 2,281,644; May 5.
Feeder: *See*—
Sheet feeder.
Film magazine with sound drum. W. E. Merriman. 2,282,074; May 5.
Film receptacle, Daylight loading. E. E. Cassidy. 2,282,117; May 5.
Film reel. H. R. Darling. 2,282,119; May 5.
Film support assembly. O. Wittel. 2,282,016; May 5.
Filter: *See*—
Band-pass filter.
Filter card. C. G. Petersen. 2,282,301; May 5.
Fish lure. E. W. Smith. 2,281,809; May 5.
Fishing bob. S. Courvelle. 2,281,831; May 5.
Fishing rod. A. V. McFerron. 2,282,233; May 5.
Flashlight. P. A. Cullman. 2,282,167; May 5.
Flotation. B. Le B. Johnson. 2,281,880; May 5.
Flow control apparatus. T. R. Camp. 2,281,826; May 5.
Fluid cooled bearing. R. H. Goddard. 2,281,971; May 5.
Fluid dispenser. R. C. Angell. 2,282,110; May 5.
Fluid heat exchange device. J. C. Hobbs. 2,281,580; May 5.
Fluid pressure control device. H. E. Smith. 2,281,605; May 5.
Fluids, Effecting countercurrent contact between fluids. W. J. Podbielniak. 2,281,796; May 5.
Flush tank. J. W. Matthews. 2,282,141; May 5.
Flux. J. M. Bialosky and M. Merlub-Sobel. 2,281,910; May 5.
Flux, Welding. R. W. Emerson. 2,282,175; May 5.
Folding and stacking machine. H. W. Gabbert. 2,282,126; May 5.
Folding chair. R. C. Angell. 2,282,109; May 5.
Food dispenser. F. E. Wolcott. 2,281,651; May 5.
Force measuring device. A. Potigian. 2,281,712; May 5.
Frame: *See*—
Chassis frame.
Frequency controlling system. E. A. Green. 2,281,876; May 5.
Frequency modulated waves, Detection of. H. Tunick. 2,282,101; May 5.
Frequency modulated waves, Detection of. H. Tunick. 2,282,105; May 5.
Frequency modulation. H. Tunick. 2,282,103; May 5.
Friction coupling. P. M. Freer. 2,281,932; May 5.
Fruits and vegetables, Coloring. B. C. Skinner. 2,281,625; May 5.
Fuel gas production. M. W. Ditto and W. P. Torrington. 2,281,562; May 5.
Furnace control. W. E. Firehammer. 2,282,125; May 5.
Furnace wall. K. Schroeder. 2,281,951; May 5.
Furniture, Article of. A. I. Steinberg. 2,282,262; May 5.
Furniture, Article of. J. M. Vallone. 2,282,270; May 5.
Furniture wall guard. G. F. Fijux. 2,281,684; May 5.
Fuse link construction. R. E. Pittman and C. H. Walsh. 2,281,795; May 5.
Game. J. B. Gubbins. 2,282,128; May 5.
Garment. A. L. Flesh. 2,282,218; May 5.
Garment and like pressing machine. T. H. O'Brien. 2,282,204; May 5.
Garment fastener. B. Rieback. 2,281,999; May 5.
Garment hanger. C. A. Isaacson. 2,281,842; May 5.
Garment, Play. H. L. Martiny. 2,281,984; May 5.
Gas fired heaters and the like, Thermostatically controlling. C. R. Roberts. 2,281,619; May 5.
Gas meter. W. L. Brown. 2,281,669–71; May 5.
Gaseous medium, Process and apparatus for treating with a liquid. A. Placek. 2,281,616; May 5.
Gauging device. H. J. Ashlock. 2,281,907; May 5.
Gear: *See*—
Draft gear. Steering gear.
Locomotive valve and valve gear.
Gear cutting apparatus. A. W. Plensler. 2,282,288; May 5.
Gear mechanism for railway vehicles, Draft. K. W. Mealing and H. K. Jarwick. 2,282,146; May 5.
Gear mechanism, Tumble change. F. W. Curtis. 2,281,921; May 5.
Gear shifting mechanism. H. W. Hey. 2,282,053; May 5.
Gears, Method and apparatus for cutting. M. A. Lambrix. 2,282,193; May 5.
Gelatin compounds, Color-forming. J. Russell and R. E. Stauffer. 2,282,001; May 5.
Gelatin stock, Preparation of. C. T. Walter. 2,281,609; May 5.
Generator of alternating current, Thermionic. B. M. Hadfield. 2,282,130; May 5.
Girder. H. B. Gibbons. 2,282,221; May 5.
Girder, Leightweight. L. H. Donnell. 2,282,173; May 5.
Goniometer coil for radio direction finding system. I. R. J. James and C. F. A. Wagstaffe. 2,282,060; May 5.
Governor. M. J. Di Toro. 2,282,178; May 5.
Granular precipitates from colloidal solutions, Producing. J. Dahle. 2,282,037; May 5.
Grating, Metal. C. H. Bills and G. E. Young. 2,281,822; May 5.
Gravel pump. I. O. Wallberg. 2,281,733; May 5.
Grading machine. J. W. Johnston. 2,281,771; May 5.
Grid supports, Shielding of. R. R. Longwell. 2,282,229; May 5.
Grinder. H. H. Talboys. 2,282,096; May 5.
Grinding machine, Blade. H. Hill. 2,281,975; May 5.
Grinding machines, Work gauging instrument for precision. H. H. Asbridge. 2,281,817; May 5.
Grinding wheel. S. S. Kistler. 2,282,192; May 5.
Gum and carbon removal. T. W. James and R. T. Marette. 2,281,695; May 5.
Gun installation. W. B. Klemperer. 2,281,772; May 5.
Gun perforator. C. C. Cole. 2,281,870; May 5.
Gypsum, Preparing calcined. O. F. Redo. 2,282,091; May 5.
Hair drying machine. S. C. Pritchard. 2,281,993; May 5.
Halide emulsions, Photographic silver. W. G. Lowe. 2,281,703; May 5.
Halogen extraction. H. A. Robinson. 2,282,289; May 5.
Hand tool for upholstery work. G. M. Wittenburg. 2,281,736; May 5.
Handle: *See*—
Tool handle.
Hanger: *See*—
Garment hanger.
Harvester. A. R. Wurtele. 2,281,904; May 5.
Headlamp. N. E. Wahlberg. 2,281,643; May 5.
Headlight shade, Automobile. R. W. Jorgensen. 2,282,136; May 5.
Headstock for machine tools. A. J. Graf. 2,282,048; May 5.
Heat exchanger. C. B. Dalzell. 2,281,754; May 5.
Heater: *See*—
Automobile heater.
High frequency testing apparatus. J. R. Steegstra. 2,282,261; May 5.
Holder: *See*—
Cigarette paper holder. Tool holder.
Corsage holder.
Holder for form tools, Work. J. Edgar. 2,281,681; May 5.
Holder shanks, Punch. E. A. Baumbach. 2,281,543; May 5.
Honey extractor comb pocket means. G. L. Morris. 2,281,788; May 5.
Hormone-like acting product and manufacturing the same. W. Salzer. 2,281,956; May 5.
Hosiery machine, Flat knitting. O. E. Fritsche. 2,281,569; May 5.

Hydraulic control mechanism. R. C. Smith. 2,282,008; May 5.
Hydraulic speed control system for prime movers. P. A. Condit. 2,281,675; May 5.
Hydrocarbon gas treatment for electrographitic material. L. E. Moberly. 2,282,235; May 5.
Hydrocarbon treatment. C. N. Kimberlin. 2,281,979; May 5.
Hydrocarbons, Conversion of. K. M. Watson. 2,282,273; May 5.
Hydrocarbons, Separation of aromatic. W. J. Mattox. 2,282,231; May 5.
Hydrometer. C. E. Linebarger. 2,282,009; May 5.
Ignition coil. J. A. Doran. 2,282,040; May 5.
Ignition coil and terminal connector therefor. W. E. Schwarzmann and C. Striniste. 2,281,862; May 5.
Implement retainer. R. O. Allen. 2,282,149; May 5.
Impression taking composition. P. Poetschke. 2,281,992; May 5.
Impulse sender for use in telephone or like systems. C. C. Puckette. 2,281,994; May 5.
Indicating means and magazine ejector for film handling apparatus. H. N. Fairbanks. 2,282,044; May 5.
Ingots and apparatus therefor, Casting metal. J. T. Scully and G. H. Wyckoff. 2,281,718; May 5.
Ingots, Making metallic. A. R. Rowe. 2,282,248; May 5.
Inhibitors, Producing oxidation. J. A. Tilton. 2,281,892; May 5.
Injection engine. H. Fischer. 2,281,685; May 5.
Insecticidal composition. A. C. Mohr. 2,281,785; May 5.
Insecticidal material. A. C. Mohr. 2,281,786; May 5.
Insecticide. A. C. Mohr. 2,281,784; May 5.
Insoles, Manufacture of ribbed. M. Cuozzo. 2,281,678; May 5.
Iodine compound and producing the same. P. J. Witte. 2,281,612; May 5.
Iron from iron oxide, Production of. F. A. Fahrenwald. 2,282,124; May 5.
Iron, Production of sponge. F. A. Fahrenwald. 2,282,144; May 5.
Ironer, Cap. M. M. Berger. 2,281,546; May 5.
Ironer, Flat plate. E. E. Foster. 2,281,563; May 5.
Isobutylene from hydrocarbon mixtures, Separation of. L. A. Bannon and H. G. Schneider. 2,281,911; May 5.
Jacket for drill pipe couplings. R. A. Stepa. 2,281,632; May 5.
Journal assembly for axle or shaft bearings. O. H. Brauer. 2,282,161; May 5.
Knee action compensator. B. Castiglia. 2,281,555; May 5.
Knife. F. A. Mirando. 2,281,782–3; May 5.
Knitting machine. J. Sirmay. 2,281,721; May 5.
Lacing machine. J. Fossa. 2,281,686; May 5.
Latch: *See*—
Refrigerator latch.
Lath or the like, Method of and apparatus for perforating gypsum. L. N. Sorensen. 2,282,209; May 5.
Lamp and radio receiving set, Combined. D. J. Crowley. 2,281,920; May 5.
Lamps, Manufacture of gaseous conduction. A. F. Henninger, Jr., and G. D. Henninger. 2,281,579; May 5.
Lawn mower for grass, grains, and the like. R. T. Newton. 2,282,238; May 5.
Leveling device for scales and other objects. G. F. Hochriem. 2,281,769; May 5.
Light reflecting sign. J. A. Morehead. 2,282,079; May 5.
Lining, Heat insulating. F. Christenson. 2,282,293; May 5.
Liquids, Equipment for storing volatile. S. C. Carney. 2,281,748; May 5.
Liquids in containers, Pasteurizing. J. L. Herold and W. J. Nekola and F. W. Wehmiller. 2,282,187; May 5.
Loaf control for bread wrapping machines. W. Hoppe. 2,281,936; May 5.
Lock: *See*—
Door lock.
Lock. H. H. Rauh. 2,281,714; May 5.
Locking device, Beam. H. A. Hadley. 2,281,838; May 5.
Logging of permeable formations traversed by wells. P. F. Hawley. 2,281,766; May 5.
Loom. W. Hamilton. 2,282,223; May 6.
Lubricant and method of lubricating. C. F. Prutton. 2,281,597; May 5.
Lubricant, Extreme pressure. D. R. Merrill. 2,281,705; May 5.
Lubricated plug valve. R. L. Kerr. 2,281,697; May 5.
Lubrication device. P. B. Reeves. 2,281,859; May 5.
Lubricating oil composition. G. H. von Fuchs and H. Diamond. 2,281,894; May 5.
Lubricator. A. E. Westburgh. 2,282,276; May 5.
Lucite, Frosting. D. O. Ford. 2,281,537; May 5.
Lug, Limiter. C. P. Xenis. 2,282,279; May 5.
Luminous display apparatus. R. P. Newhall. 2,281,790; May 5.
Machine for forming heel seats in the manufacture of shoes. J. Hosa. 2,282,134; May 5.
Machine for lapping the ways of machine tools. H. S. Indge. 2,282,145; May 5.
Machine for operating upon record cards. M. Maul. 2,282,072; May 5.
Magnesium, Making dolomite briquettes for the use in the production of. J. S. Peake. 2,282,241; May 5.
Manifold. J. S. Huber. 2,281,694; May 5.
Marking machine. J. Weimont. 2,281,896; May 5.
Mask, Face. N. L. Brunner. 2,281,744; May 5.
Material, Light sensitive. G. von Poser and M. P. Schmidt. 2,281,895; May 5.
Measuring device, Thrust. J. Corby, Jr. 2,281,871; May 5.
Meat treatment. L. R. Newton. 2,281,590; May 5.
Metal film resistor. J. W. Jira. 2,281,843; May 5.
Metal ironing board. D. W. Thomas. 2,281,729; May 5.
Metal negatives of models, Production of spray. M. Stossel. 2,281,634; May 5.
Metal spray gun. F. O. Albertson. 2,282,214; May 5.
Metal straightener. W. K. Beckwith and W. H. Lieber. 2,282,111; May 5.
Meter: *See*—
Gas meter.
Thermal type demand meter.
Milk desiccators, End dam for. H. Magnus. 2,281,588; May 5.
Mineral oil and the oil resulting therefrom, Producing a chlorinated. E. R. Wiles. 2,281,648; May 5.
Mineral wool product and making it. W. M. MacAlpine. 2,282,230; May 5.
Mitering machine. W. J. Knoll. 2,282,064; May 5.
Mixing tank, Molasses. J. S. Herr. 2,281,974; May 5.
Mixing valve, Double action shower. E. Babbin. 2,282,152; May 5.
Modulation receiver, Frequency. W. van B. Roberts. 2,282,092; May 5.
Modulation system. W. W. Hansen and R. H. Varian. 2,281,935; May 5.
Molding die. A. F. Bandur. 2,282,155; May 5.
Molds, Forming tire. J. W. Bishop and A. W. Bull. 2,282,022; May 5.
Molecular mixture, Separating high. W. J. D. van Dijck. 2,281,865; May 5.
Monogram affixing device. I. Otnow. 2,282,286; May 5.
Mosaic screen. S. F. Essig. 2,282,123; May 5.
Mothproofing agents, Water-soluble. H. Schussler and W. Retter. 2,281,624; May 5.
Motor. G. Dalkowitz. 2,281,753; May 5.
Motor assembly, Submerged. R. E. Rambo and C. F. Jenkins. 2,282,243; May 5.
Motor drive operating mechanism for roll film cameras. J. Mihalyi. 2,282,075; May 5.
Motor operated devices, Control of. B. W. Smith. 2,282,007; May 5.
Motor vehicle wheel. C. J. Goeske. 2,282,222; May 5.
Motor vehicles, Air deflector for. C. S. Hamilton. 2,281,840; May 5.
Mounting: *See*—
Ophthalmic mounting.
Mounting for motors, Resilient. H. D. Else and C. G. Veinott. 2,282,174; May 5.
Mounting means for relays. C. S. Snavely. 2,281,958; May 5.
Mower, Flixi-bar rotor-type lawn. J. A. Swan. 2,281,639; May 5.
Mower package, Lawn. W. C. Davis. 2,281,923; May 5.
Multiplying machine. B. M. Durfee. 2,282,121; May 5.
Music rack, Illuminated. W. E. Janssen. 2,282,135; May 5.
Napkin, Paper. A. D. Milliken. 2,281,945; May 5.
Neckband for shampoo and like capes, Adjustable. E. Harris. 2,282,183; May 5.
Necktie. J. W. Burkholder. 2,281,825; May 5.
Nonskid device. J. Zippay. 2,281,655; May 5.
Nozzle, Discharge. F. C. Woelfer, Jr. 2,281,737; May 5.
Oil composition, Lubricating. J. E. Schott. 2,281,623; May 5.
Oil, Modified lubricating. U. B. Bray. 2,281,824; May 5.
Oil package, Lubricating. A. C. Rittman. 2,282,000; May 5.
Oil using synthetic catalytic compositions, Cracking. G. C. Connolly. 2,281,919; May 5.
Oils, Addition agent for lubricating. E. Lieber. 2,281,942; May 5.
Oils, Cracking of hydrocarbon. P. C. Keith, Jr., and J. K. Roberts. 2,281,881; May 5.
Oils, Method for treating. U. B. Bray. 2,281,667; May 5.
Oils, Preservation of glyceride. K. C. D. Hickman and J. G. Baxter. 2,282,064; May 5.
Oils, Refining of fatty. F. B. Lachle. 2,281,884; May 5.
Oils, Treatment of hydrocarbon. V. L. Chechot. 2,282,083; May 15.
Olefins, Isomerization of. R. F. Ruthruff. 2,281,804; May 5.
Opener, Envelope. R. V. Jewett. 2,282,062; May 5.
Opening and dispensing device. S. S. Andary. 2,282,150; May 5.
Ophthalmic mounting. W. R. Uhlemann and L. J. Booth. 2,281,812; May 5.
Oscillation generation and control. C. W. Hansell. 2,282,295; May 5.
Oscillator, Beat. E. Olson. 2,281,709; May 5.
Oscillator, Relaxation. H. Pieplow. 2,281,948; May 5.
Package. S. A. Aquino. 2,281,657; May 5.
Package conveying, closing, and sealing machine. J. R. Wysong. 2,282,278; May 5.
Packing pieces, Making fluid-tight. J. Mercier. 2,281,780; May 5.

Pad: *See*—
Sanding and polishing pad.
Pajamas. A. Donnelly. 2,281,872; May 5.
Panel feed mechanism. G. J. Snyder. 2,281,725; May 5.
Paper stock machine. M. Chevrier. 2,281,749; May 5.
Parachute. C. A. Minich. 2,282,234; May 5.
Permanent wave method and apparatus. H. C. Miller. 2,281,853; May 5.
Peroxide, Manufacture of hydrogen. P. Harrower, R. Christian, and O. H. Walters. 2,282,184; May 5.
Phase comparing system. E. S. Purington. 2,281,995; May 5.
Phenazine and naphthazine fog inhibitors for photographic emulsions. S. E. Sheppard and W. Vanselow. 2,282,005; May 5.
Phonograph, Automatic. E. F. Andrews. 2,281,547–8; May 5.
Phonograph record rack. A. Kaplan. 2,281,845; May 5.
Phonograph apparatus. R. F. Brady. 2,281,665; May 5.
Photo-electric tube. E. H. Bickley. 2,282,302; May 5.
Photoelectric differential analyzer. S. J. Murcek. 2,282,198; May 5.
Photographic element. L. G. S. Brooker. 2,282,116; May 5.
Photography, Multiple. R. Thomas. 2,281,607; May 5.
Photometer. B. M. Shaub. 2,282,253; May 6.
Photopolymerization of vinyl halides. J. Heerema and J. S. Owens. 2,281,768; May 5.
Piezoelectric crystal apparatus. W. P. Mason. 2,281,778; May 5.
Pigment and coating compositions containing the same. C. K. Sloan. 2,282,006; May 5.
Pilot for gas ranges. H. D. Dufault. 2,281,563; May 5.
Pinking cutter. H. B. Rudd. 2,281,716; May 5.
Pinking machine. M. Glassberg. 2,281,761; May 5.
Pinking machine. M. Glassberg and B. Chester. 2,281,575; May 5.
Pipe: *See*—
Smoking pipe.
Pipe cleaning tool. T. D. Constant and C. B. Boulton. 2,281,918; May 5.
Pipe coupling. W. E. Stitzer. 2,281,633; May 5.
Pipe, Method and apparatus for forming helical lock seam. E. Fay and T. W. Allsworth. 2,282,176; May 5.
Pipe, Method and apparatus for manufacturing. E. K. Hamlen. 2,282,282; May 5.
Pipes in deep wells, Retrieving device for. T. Smith. 2,282,095; May 5.
Piston. A. L. Nelson. 2,282,081; May 5.
Piston. W. M. Nichols, J. W. Anderson, and G. K. Aue. 2,282,085; May 5.
Piston ring. C. F. Engelhardt. 2,281,873; May 5.
Piston valve inertia arrester, Railway locomotive. C. G. Ash. 2,281,818; May 5.
Plasma, Production of. I. A. Parfentjev. 2,281,989; May 5.
Plastic film material. C. Strauss. 2,281,635; May 5.
Play pen and table, Combined. M. K. Buchanan. 2,281,672; May 5.
Plywood. T. W. Dike and H. Galber. 2,282,177; May 5.
Pneumatic treating recovery head for dehydrated ore. A. K. Andrews. 2,281,816; May 5.
Pocket welts and the like, Infolding of vest. A. G. Gilbert. 2,281,970; May 5.
Poles, Setting. W. H. Pyeatt. 2,281,713; May 5.
Polyamides and making same. W. E. Hanford. 2,281,576; May 5.
Polymerizing butadine hydrocarbons. H. Wollthan and W. Becker. 2,281,613; May 5.
Polymethine dyes, Trinuclear. L. G. S. Brooker and F. L. White. 2,282,115; May 5.
Polysulphide polymer and making, Desulphurized. J. C. Patrick. 2,282,287; May 5.
Portable tray. J. L. Worley. 2,281,653; May 5.
Posts, Sinking. J. C. Haggart, Jr. 2,282,049; May 5.
Power transmitting mechanism. P. Gleissner. 2,281,875; May 5.
Precast reinforced foundation for signal masts. B. J. Schwendt. 2,282,251; May 5.
Preparation of organic base compounds. D. W. Jayne, Jr. 2,281,879; May 5.
Preselector. A. C. Ten Cate. 2,281,640; May 5.
Press, Continuous feed and pressure. J. C. Renault. 2,281,860; May 5.
Pressure-responsive switch. E. W. F. Hanke. 2,281,764; May 5.
Pressure switch. L. Beeman and E. W. F. Hanke. 2,281,544; May 5.
Printing control mechanism. W. Lang. 2,282,067; May 5.
Printing mechanism for adding machines. T. O. Mehan. 2,281,851; May 5.
Printing telegraph error detecting system. W. D. Buckingham. 2,281,745; May 5.
Processing apparatus. B. De H. Miller and H. W. Bevarly. 2,281,944; May 5.
Projector, Sliding film. J. N. Loughner and C. O. Gleason. 2,281,943; May 5.
Propeller, Controllable pitch. C. Keller. 2,282,297; May 5.
Propeller drive and mounting, Coaxial. H. S. Swaskey. 2,282,266; May 5.
Propeller unit, Changeable pitch. H. K. Moore. 2,282,077; May 5.
Propelling and steering device. H. Carrier. 2,281,915; May 5.
Protein material and products produced thereby, Treating. P. L. Julian and E. B. Oberg. 2,281,594; May 5.
Pull rod carrier. A. M. Rossman. 2,281,601; May 5.
Pulverizer. W. J. Moerlin, O. Berndt, and J. P. Wales. 2,281,855; May 5.
Pump: *See*—
Adjustable stroke metering pump.
Centrifugal pump.
Differential pump.
Gravel pump.
Pump. W. W. Heckert. 2,281,767; May 5.
Pump and bearing construction. H. F. England. 2,281,682; May 5.
Pump for steam generators, Circulating. G. F. Wislicenus. 2,281,650; May 5.
Rack: *See*—
Music rack.
Phonograph record rack.
Rotatable rack.
Racket. J. M. Le Compte. 2,282,195; May 5.
Radio receiving system, All wave. E. V. Amy and J. G. Aceves. 2,282,292; May 5.
Rail fastening. R. P. Clarkson. 2,281,750; May 5.
Railroad passenger car. W. C. Keys, J. A. Younglove, R. D. Gartrell, and R. H. Hambidge. 2,282,063; May 5.
Railway signal control circuit. F. H. Nicholson. 2,282,083; May 5.
Railway signaling apparatus. C. W. Fallor. 2,281,929; May 5.
Range control system, Volume. P. F. G. Holst and L. R. Kirkwood. 2,281,693; May 5.
Ratchet mechanism. I. A. Williams. 2,281,866; May 6.
Razor. W. H. Ebelhare. 2,281,926; May 5.
Razor. N. Holsclaw. 2,281,841; May 5.
Razor, Concealed spring. L. Kuhnl. 2,281,980; May 5.
Razor, Self-sharpening. C. F. Waite. 2,282,012; May 5.
Reamer, Cable tool. C. J. Ogran. 2,281,614; May 5.
Receptacle: *See*—
Film receptacle.
Sanitary receptacle.
Receptacle discharge cap. H. W. Rueger. 2,281,620; May 5.
Receptacle support. H. L. Blickhan. 2,281,740; May 5.
Reception of angular velocity modulated waves. H. Tunick. 2,282,104; May 5.
Recorder, Collectors'. J. E. Haynes. 2,281,577; May 5.
Recorder, Magnetic. W. P. Patrick. 2,281,793; May 5.
Recorder, Time. C. D. Lake. 2,282,140; May 5.
Recorder, Time. F. Q. Rast. 2,281,998; May 5.
Recording device. J. W. Bryce. 2,282,029; May 5.
Reel: *See*—
Film reel.
Reel for line washing and drying. W. Boe and T. G. Stuppy. 2,281,868; May 5.
Refrigerating apparatus. H. F. Smith. 2,281,626; May 5.
Refrigeration. M. E. Bixler and C. C. Coons. 2,281,823; May 5.
Refrigeration. C. C. Coons and W. H. Kitto. 2,281,828–9; May 5.
Refrigerator. W. T. Hedlund. 2,281,690; May 5.
Refrigerator latch. S. W. Parsons. 2,281,947; May 5.
Regulator: *See*—
Voltage regulator.
Regulator for chimneys, Draft. R. J. and P. J. Dever. 2,281,925; May 5.
Relay. R. R. Fowler. 2,281,687; May 5.
Relay. C. D. Lake and W. Pfaff. 2,282,066; May 5.
Remote control, Device for. G. K. Tolnai. 2,282,010; May 5.
Resin film and sheeting, Manufacture of vinyl. R. H. Talbot. 2,282,009; May 5.
Resinous plasticizer. G. Alexander. 2,282,017; May 5.
Resins, Purification and stabilization of polyvinyl acetal. J. H. Hopkins and G. H. Wilder. 2,282,057; May 5.
Resins, Treatment of polyvinyl acetal. B. C. Bren, J. H. Hopkins, and G. H. Wilder. 2,282,026; May 5.
Ribbon attachment for typewriters for making duplicate copies. J. R. Geser. 2,281,688; May 5.
Rigid-back chain. H. Klaucke. 2,281,938; May 5.
Rim and article embodying it, Fastening and sealing. K. Stuart and A. B. Wilson. 2,281,889; May 5.
Rim and rimmed article. A. B. Wilson. 2,281,901; May 5.
Ring: *See*—
Piston ring.
Rod: *See*—
Fishing rod.
Roll stop mechanism. H. A. Schultze. 2,281,886; May 5.
Rotatable rack. R. B. McCoppin. 2,281,849; May 5.
Rotary motion to reciprocatory motion, Mechanism for converting. F. Toop. 2,281,641; May 5.
Rubber, Splicing. M. E. Hansen. 2,281,976; May 5.
Rubbing machine. G. H. Ekstrom. 2,282,043; May 5.
Safety appliance for electrically heated apparatus. A. E. Lanigan. 2,281,848; May 5.
Safety device for scaffolds. L. Zanger. 2,281,966; May 5.
Safety valve, High pressure. T. H. Ransome. 2,282,244; May 5.
Sanding and polishing pad. G. E. Smith. 2,281,722; May 5.
Sanitary receptacle. G. W. Southard. 2,281,630; May 5.

Sash, Combination storm and screen. N. Jasperson. 2,282,061; May 5.
Saturated and unsaturated derivatives of the 3-keto-cyclopentanopolyhydrophenanthrene series. L. Ruzicka. 2,281,622; May 5.
Saturating machine. G. J. Snyder. 2,281,724; May 5.
Scraper blade for conduits of heat exchangers, Spring supported. W. G. Vogel. 2,282,298; May 5.
Screed support. L. J. O'Neill, Jr. 2,281,946; May 5.
Screen: *See*—
Mosaic screen.
Screw-cutting die. S. E. Opperman. 2,282,206; May 5.
Scuff plate and weather strip, Combined. C. F. Kramer. 2,281,586; May 5.
Seal, General bushing. A. M. Opsahl. 2,282,239; May 5.
Seal or guard, Oil. O. W. Young. 2,281,905; May 5.
Sealing tubes to tube sheets of heat exchangers and the like. W. A. Pearl. 2,281,594; May 5.
Securing means for pump liners. J. M. Shimer. 2,282,254; May 5.
Seed tape. A. C. Fischer. 2,281,927; May 5.
Seismic wave generation apparatus. R. T. Cloud. 2,281,751; May 5.
Selective apparatus. W. H. Buswell. 2,282,164; May 5.
Separator: *See*—
Centrifugal liquid separator.
Sewage stabilizer. C. G. Hawley, H. H. Degenhardt and V. T. Hawley. 2,282,225; May 5.
Sewage treatment. R. W. Gelder. 2,281,759; May 5.
Sewing machine drive. L. C. Marsac and D. A. Graesser. 2,282,071; May 5.
Sewing machines, Hemming attachment for. J. P. Enos. 2,282,042; May 5.
Shaft and gear means, Lubricated. S. H. Brooks. 2,281,914; May 5.
Shaving apparatus. F. E. Moskovics. 2,281,789; May 5.
Shaving device. G. Dalkowitz. 2,281,922; May 5.
Shears, Pivotal connection for. D. H. Keiser, Jr. 2,281,977; May 5.
Sheet feeder. C. W. Harrold. 2,282,224; May 5.
Sheet feeding machine. L. L. Matthews. 2,281,704; May 5.
Sheets, Making composite. H. C. Moore. 2,281,591; May 5.
Shift rooter, Quick. D. Fletcher. 2,281,928; May 5.
Shirt collar support. J. Nagdeman. 2,282,080; May 5.
Shock absorber for the balance staff of watches. G. Erismann. 2,282,122; May 5.
Shockproof isolator. S. Rosenweig. 2,281,955; May 5.
Shuttle eye, Self-threading. H. E. Goff. 2,281,972; May 5.
Shuttle, Loom. J. J. Kaufmann, Jr. 2,282,191; May 5.
Sifter. E. C. Stewart. 2,281,727; May 5.
Sign: *See*—
Light reflecting sign.
Sign and reflector therefor. A. F. Eckel. 2,281,565; May 5.
Signal: *See*—
Auto direction signal.
Signaling. H. Tunick. 2,282,102; May 5.
Signaling apparatus, Traffic actuated. J. L. Barker. 2,282,142; May 5.
Signaling device, Marine sky beam. B. A. Nolan. 2,281,986; May 5.
Signaling system, Alternating current. B. M. Hadfield. 2,282,129; May 5.
Signaling system, Electrical. B. M. Hadfield. 2,282,131; May 5.
Signaling system, Electrical. T. B. D. Terroni and J. B. McCusker. 2,282,271; May 5.
Signaling system, Multiplex. A. N. Goldsmith. 2,282,046; May 5.
Signaling system, Two-way. B. B. Bjornson. 2,281,912; May 5.
Sliding tray for high chairs. B. Uline. 2,281,813; May 5.
Slotting machine. L. G. Larsen. 2,281,774; May 5.
Smokeless powder, Drying of. W. A. Dew and B. H. Mackey. 2,281,560; May 5.
Smoking pipe. R. Hirsch. 2,282,055; May 5.
Snap-on closure. J. J. Williams. 2,281,649; May 5.
Socket, Lamp. J. F. Cavanagh. 2,282,281; May 5.
Sodium formate, Production of. D. A. Rogers. 2,281,715; May 5.
Solvent and fuel containing same. C. F. Prutton. 2,281,598; May 5.
Solvent treating process. J. M. Whiteley, Jr. 2,281,897; May 5.
Sound deadener. H. van Tongeren. 2,281,963; May 5.
Sound tubes to dictating machines, Connecting. T. H. Beard and J. M. Lucarelle. 2,282,020; May 5.
Speed control for engines. A. Kosian. 2,281,883; May 5.
Speed governor for electric motors. W. F. Peck and C. M. Sperazz. 2,281,711; May 5.
Spreader. E. H. Olsen. 2,282,205; May 5.
Spindle structure. I. J. Snader. 2,281,628; May 5.
Spinning machine, Mule. R. A. Gard. 2,281,969; May 5.
Spool, Fishing reel. E. J. Benes. 2,282,156; May 5.
Stacking machine. H. W. Gabbert. 2,282,127; May 5.
Stairway, Moving. A. E. Handy and C. J. Kroepel. 2,282,050; May 5.
Stapling machine. S. A. Crosby. 2,281,557; May 5.
Steering gear. R. C. Lamond. 2,282,194; May 5.
Stencil. E. O. Norris. 2,282,203; May 5.
Stencil and making the same, Printing. G. Barsky and F. A. Strauss. 2,281,909; May 5.
Stereoscope. C. D. Austin. 2,282,151; May 5.
Sterilizer, Continuous. S. Ish-Shalom. 2,282,059; May 5.
Sterilizer, Liquid. R. E. Bitner. 2,282,024; May 5.
Stocking of the strain absorber type. H. B. Snader. 2,281,606; May 5.
Stoker. J. S. Bennett. 2,282,157; May 5.
Stoking mechanism. W. T. Hanna. 2,281,765; May 5.
Straight bar knitting machine. K. R. Liberknecht. 2,281,702; May 5.
Straw cutter for grain combines. W. E. Klein. 2,281,846; May 5.
Submarine cable amplifying system. G. A. Randall and J. E. Rice, Jr. 2,281,996; May 5.
Submarine cable signal shaping system. G. A. Randall. 2,281,997; May 5.
Subsoil stalk cutter. R. E. McDonald. 2,281,779; May 5.
Substances having tanning action, Producing. E. Stiasny and H. Schuette. 2,282,264; May 5.
Sucker rod steel. P. E. McKinney. 2,281,850; May 5.
Suction cleaner. F. L. Pierce. 2,281,858; May 5.
Suction cleaner. W. V. Prince. 2,281,798; May 5.
Suction cleaner. D. G. Smellie. 2,281,863; May 5.
Suction draft creating apparatus. J. M. Smelik. 2,282,256; May 5.
Sulphone compounds. P. Pöhls and R. Behnisch. 2,282,211; May 5.
Sulphur trioxide and oxygen, Producing. W. T. Grace. 2,281,762; May 5.
Supercharging. M. Kadenacy. 2,281,585; May 5.
Superpolyamides, Production of. H. Ufer and A. Weickmann. 2,281,961; May 5.
Support: *See*—
Coffee maker bowl support.
Receptacle support.
Screed support.
Shirt collar support.
Torch support.
Truss and abdominal support.
Window shade and curtain rod support.
Supporting device, Adjustable. J. W. Dollison. 2,281,835; May 5.
Switch: *See*—
Pressure-responsive switch.
Pressure switch.
Switch. G. Smiley. 2,281,808; May 5.
Switch devices, Drive for encased. W. Fries. 2,282,219; Mar. 5.
Swivel connections. P. J. Healy. 2,281,973; May 5.
T-fitting and valve. P. D. Merrill and F. L. Green. 2,281,781; May 5.
Table: *See*—
Play pen and table.
Table set, Foldable. F. Hollentonder. 2,282,296; May 5.
Table top, Ironing. L. W. Place. 2,282,300; May 5.
Tablet, Anthelmintic. W. E. Swales. 2,282,290; May 5.
Tank: *See*—
Flush tank.
Mixing tank.
Tank lifter for circuit breakers. H. G. MacDonald and J. M. Cumming. 2,282,232; May 5.
Telegraph printer. J. W. Long and G. I. Roberts. 2,281,775; May 5.
Telegraphic transmission by space discharge control. L. M. Potts. 2,281,596; May 5.
Telemetering system. C. Oman. 2,281,710; May 5.
Telephone system, Tandem. W. B. Strickler. 2,281,636; May 5.
Television scanning apparatus. J. van der Mark. 2,281,893; May 5.
Testing device for determining mass distribution. H. O. Hem. 2,282,052; May 5.
Textile fabrics and the product thereof, Treating. L. G. Copeman and F. E. Bartel. 2,281,830; May 5.
Textiles, Weighting. W. L. Morgan. 2,281,599; May 5.
Therapeutic composition. S. C. Johnson. 2,281,937; May 5.
Thermal type demand meter. B. H. Smith. 2,282,257; May 5.
Thermometer. E. S. Whittier. 2,282,277; May 5.
Thiocyanates of phenyl ether. W. F. Hester and W. E. Craig. 2,281,692; May 5.
Thiocyanomethyl derivatives of phenyl ethers. W. E. Craig and W. F. Hester. 2,281,677; May 5.
Thread, Coating. G. C. Davis, Jr. 2,281,679; May 5.
Time delay circuit. O. Weitmann. 2,282,108; May 5.
Time interval indicating device. W. M. Pepper, Jr., and P. E. Vrooman. 2,282,209; May 5.
Timing mechanism, Electrical. E. P. Haltom and G. L. Ledingham. 2,282,132; May 5.
Tire sander, Locomotive. F. S. Havill. 2,282,185; May 5.
Tool: *See*—
Pipe cleaning tool.
Tool. A. S. T. Lagaard. 2,281,939; May 5.
Tool handle. S. Mandl. 2,282,148; May 5.
Tool holder. D. H. Montgomery and G. A. Cardell. 2,281,706; May 5.
Torch support. M. E. Willoughby. 2,281,814; May 5.
Toy. V. T. Hoeflich. 2,282,056; May 5.
Toy, Action. H. G. Fisher. 2,281,757; May 5.
Toy, Action. H. G. Fisher. 2,282,179; May 5.
Toy airplane construction. J. S. Ott. 2,281,792; May 5.
Toy, Whirling sound drum. E. J. Moddes and L. Cinelli. 2,282,076; May 5.
Tractor hitch. C. E. Swenson and F. M. Potgieter. 2,282,267.

Traffic controlling apparatus, Railway. C. B. Shields. 2,281,957; May 5.
Trailer loader. W. L. Keehn. 2,282,137; May 5.
Transfer system for electrically operated vehicles. C. C. Whittaker. 2,281,734; May 5.
Transmission means, Power. S. H. Brooks. 2,281,913; May 5.
Transmission, television, and the like, Picture. V. J. Terry. 2,281,891; May 5.
Trolley for overhead conveying systems. F. B. Peebles. 2,281,794; May 5.
Truck, Car. R. B. Cottrell. 2,282,166; May 5.
Truck, Church. R. R. De Ment. 2,281,680; May 5.
Truck, Lift. J. J. Neuman. 2,282,201; May 5.
Truck mixer hopper. C. F. Ball. 2,281,820; May 5.
Truss and abdominal support. T. Benningfield. 2,282,021; May 5.
Tube: *See*—
Photo-electric tube.
Tuning system. L. E. Barton. 2,281,661; May 5.
Turbine oil. E. W. Cook. 2,281,676; May 5.
Typewriter display device. T. J. Watson, Jr. 2,282,107; May 5.
Undergarment. A. L. Flesh. 2,282,217; May 5.
Upholstery. G. R. Cunnington. 2,282,170; May 5.
Urea-haloacylated urea-aldehyde condensation products. G. F. D'Alelio. 2,281,559; May 5.
Vacuum breaker. B. E. Horne. 2,282,188; May 5.
Valve: *See*—
Air vent valve.
Lubricated plug valve.
Mixing valve.
Safety valve.
Valve and valve gear, Locomotive. H. J. Sherrill. 2,282,093; May 5.
Valve control means for spray guns. S. Bramsen and W. B. MacMartin. 2,281,666; May 5.
Valve structure T. G. Hare. 2,281,689; May 5.
Valve tube and casing thereof. J. J. Heger. 2,281,878; May 5.
Vapor pressure apparatus, Continuous. M. W. Kibre. 2,281,978; May 5.
Vehicle brake, Ground engaging. C. Nichol. 2,282,202; May 5.
Vehicle framing construction. F. E. Toothacre. 2,281,864; May 5.
Vehicles, System of guiding. H. G. Busignies. 2,282,030; May 5.
Vending machine. F. F. Tone. 2,282,269; May 5.
Venetian blind tilting mechanism. A. F. Waltzinger. 2,282,272; May 5.
Ventilating device for projection apparatus. H. Osterberg and D. I. Critoph. 2,281,988; May 5.
View finder. M. Fleischer. 2,282,045; May 5.
Vise, Key. F. W. Corson. 2,282,165; May 5.
Voltage regulator. P. H. Odessey. 2,281,593; May 5.
Voltage regulator. J. M. Weed. 2,281,645; May 5.
Voting machine. R. F. Shoup. 2,281,603; May 5.
Walker, Folding. L. Peltier. 2,282,086; May 5.
Wall construction. J. R. Zazvorka. 2,281,967; May 5.
Wallpaper removing device. J. F. Atkinson. 2,281,819; May 5.
Wall tie, Form. D. M. De Canio. 2,281,833; May 5.
Water cooling device. M. H. White. 2,282,276; May 5.
Water craft drive. A. Arnold. 2,281,549; May 5.
Water from alkaline pulp mills harmless, Making the contaminated. H. O. V. Bergstrom and K. G. Trobeck. 2,281,112; May 5.
Wax modifying agents. E. Lieber. 2,281,941; May 5.
Weaving looms, Weft control device for. E. C. R. Diederichs. 2,281,561; May 5.
Welding apparatus. J. T. Catlett. 2,282,031; May 5.
Welding, Seam. J. T. Catlett. 2,282,032; May 5.
Well drilling device. K. Ransone and R. Eichenberg. 2,281,952; May 5.
Well equipment. C. L. White. 2,281,899; May 5.
Wells, Pumping. J. H. Reynolds and A. Sandhofer. 2,281,801; May 5.
Wheel: *See*—
Grinding wheel.
Motor vehicle wheel.
Wheel assembly, Dual. C. S. Ash. 2,281,541; May 5.
Wheel dresser, Grinding. H. N. Seyferth and I. J. Snader. 2,281,719; May 5.
Wheel dresser, Grinding. I. J. Snader. 2,281,723; May 5.
Wheel indicator for motor vehicles, Front. P. F. Jackson. 2,282,189; May 5.
Wheel straightener. L. M. Daniel. 2,282,118; May 5.
Wheel suspension. E. W. Börjeson. 2,282,025; May 5.
Whistle, Diaphragm. R. L. Williams. 2,281,611; May 5.
Winding apparatus. L. Campbell. 2,281,747; May 5.
Window regulator mechanism, Hydraulic. J. B. Parsons. 2,282,240; May 5.
Window shade and curtain rod support, Combined. R. W. Bowser. 2,281,664; May 5.
Wire cutting machine. C. F. Fisher and E. E. Franks, Jr. 2,281,756; May 5.
Wireless messages, Arrangement for transmitting and receiving. A. Leyn. 2,281,982; May 5.
Wrapping material, Moistureproof. J. A. Mitchell. 2,281,589; May 5.
Wrapping machine. E. L. Smith. 2,281,887; May 5.
Wringer mechanism, Roll. N. L. Etten. 2,281,683; May 5.
Wringer roll stop mechanism. T. J. Litle, Jr. 2,281,885; May 5.
X-ray apparatus. G. Frank. 2,281,931; May 5.
Yarn and making it. W. Whitehead. 2,281,647. May 5.

CLASSIFICATION OF PATENTS

ISSUED MAY 5, 1942

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

1— 3: 2,281,557
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21— 93: 2,282,059
22— 65: 2,281,867
139: 2,281,718
147: 2,282,248
200: 2,281,634
203: 2,282,022
23— 122: 2,282,091
167: 2,281,762
184: 2,282,294
207: 2,282,184
216: 2,282,289
310: 2,282,265
24— 6: 2,282,090
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118: 2,281,698
131: 2,281,833
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156.6: 2,281,780
30— 36: 2,282,012
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43: 2,281,789
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164: 2,281,782
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230: 2,281,716
248: 2,281,977
294: 2,281,939
2,282,062
31— 85: 2,282,159
33— 50: 2,281,772
64: 2,282,263
147: 2,282,114
34— 9: 2,281,560
48: 2,281,993
163: 2,282,070
38— 36: 2,281,568
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70— 146: 2,282,213
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101: 2,281,951
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468: 2,281,913
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522.5: 2,281,601
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602: 2,281,903
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2,282,144
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13.05: 2,282,165
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39.1: 2,281,854
88: 2,281,896
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31: 2,282,044
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44: 2,282,045
53: 2,282,291
98— 33: 2,282,210
40: 2,281,615
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99— 23: Re.22,089
71: 2,282,138
2,282,139
103: 2,281,625
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253: 2,282,024
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105— 15: 2,282,063
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327: 2,281,581
106— 87: 2,282,190
253: 2,282,006
107— 9: 2,281,802
108— 1: 2,281,981
110—105.5: 2,281,765
112— 5: 2,281,686
122: 2,281,575
2,281,761
130: 2,282,200
141: 2,282,042
210: 2,282,047
220: 2,282,071
113— 35: 2,282,176
112: 2,282,032
2,282,106
120: 2,281,570
114— 84: Re.22,091
2,282,194
115— 29: 2,281,915
54: 2,281,549
116— 28: 2,281,806
31: 2,282,189
48: 2,281,674
129: 2,282,039
142: 2,281,611
117— 17: 2,281,558
76: 2,281,589
98: 2,281,830
141: 2,282,181
119— 33: 2,281,776
121— 161: 2,281,818
163: 2,282,093
122— 4: 2,282,157
478: 2,281,580
123— 32: 2,281,685
52: 2,281,694
65: 2,281,585
90: 2,281,883
148: 2,281,862
169: 2,281,834
176: 2,282,085
198: 2,281,695
125— 11: 2,281,719
2,281,723
2,282,038
126— 110: 2,281,874
271.1: 2,281,819
128— 100: 2,282,021
146: 2,281,744
156: 2,282,274
344: 2,281,600
131— 75: 2,281,861
225: 2,282,055
132— 36: 2,281,853
136— 4: 2,281,563
177: 2,281,800
137— 21: 2,281,907
69: 2,281,781
78: 2,281,749
139: 2,282,244
137— 166: 2,281,799
138— 48: 2,282,073
139— 55: 2,282,223
196: 2,282,191
223: 2,281,972
376: 2,281,561
140— 140: 2,281,756
141— 9: 2,281,852
146— 2: 2,281,985
76: 2,281,590
119: 2,281,846
153: 2,281,936
219: 2,281,609
148— 4: 2,282,163
11.5: 2,281,691
23: 2,281,910
24: 2,282,175
153— 48: 2,281,554
2,282,111
2,282,118
59: 2,281,574
154— 2: 2,281,646
2,282,168
2,282,169
2.23: 2,282,003
28: Re.22,090
2,282,230
42: 2,281,976
46: 2,281,635
54: 2,282,170
155— 22: 2,282,086
25: 2,282,109
45: 2,282,270
123: 2,282,296
127: 2,281,813
171: 2,281,732
188: 2,281,832
196: 2,281,902
156— 13: 2,281,659
17: 2,282,272
158— 28: 2,282,197
159— 11: 2,281,588
49: 2,281,807
2,281,811
161— 1: 2,281,553
2,281,998
2,282,140
18: 2,282,132
164— 0.5: 2,281,870
58: 2,281,877
89: 2,282,259
118: 2,281,543
166— 2: 2,281,801
167— 22: 2,281,735
2,281,784
2,281,785
2,281,786
2,281,787
2,281,856
31: 2,281,857
37: 2,281,624
53: 2,282,290
58: 2,281,937
70: 2,281,612
78: 2,281,989
2,281,990
170—135.5: 2,282,266
163: 2,282,077
2,282,297
171— 34: 2,282,257
97: 2,281,734
119: 2,281,593
2,281,645
224: 2,282,196
252: 2,282,283
324: 2,282,094
325: 2,282,235
327: 2,281,778
172— 8: 2,282,237
172— 36: 2,281,753
2,282,243
239: 2,281,844
2,282,010
245: 2,281,995
279: 2,282,249
293: 2,281,954
173— 328: 2,281,654
2,281,739
2,281,958
2,282,281
174— 20: 2,282,004
65: 2,282,239
69: 2,281,542
167: 2,282,255
175— 41: 2,281,602
41.5: 2,282,215
182: 2,281,766
183: 2,282,261
294: 2,282,246
336: 2,282,066
338: 2,282,065
357: 2,282,040
363: 2,281,619
375: 2,282,097
176— 122: 2,281,579
177— 311: 2,281,746
337: 2,282,142
2,281,710
352: 2,281,949
2,282,208
353: 2,282,164
178— 7.1: 2,281,891
7.2: 2,281,893
7.5: 2,281,637
29: 2,281,775
44: 2,281,550
2,281,551
2,281,552
2,282,113
63: 2,281,996
2,281,997
69: 2,281,745
71: 2,281,596
179— 6: 2,282,100
15: 2,282,046
16: 2,282,129
24: 2,281,564
27: 2,281,636
90: 2,281,994
100.2: 2,281,793
170: 2,281,912
171: 2,281,618
2,281,621
2,281,644
171.5: 2,281,935
2,282,103
2,282,295
84: 2,282,131
2,282,271
180— 14: 2,282,267
22: 2,281,541
181— 0.5: 2,281,751
42: 2,281,963
183— 83: 2,281,610
184— 82: 2,282,275
188— 5: 2,282,292
152: 2,281,932
189— 28: 2,282,251
37: 2,282,173
2,282,221
64: 2,282,061
83: 2,281,822
192— .02: 2,282,008
3: 2,281,755
2,281,916
27: 2,282,084
85: 2,282,143

192—	107:	Re.22,088	206—	62:	2,281,657	229—	3.5:	2,282,258	248—	150:	2,281,740
		2,281,898	209—	166:	2,281,880		4.5:	2,281,901		169:	2,282,285
194—	10:	2,282,269		474:	2,281,816		5.7:	2,281,889		259:	2,281,664
196—	13:	2,281,865		493:	2,281,827		7:	2,282,150		353:	2,281,835
		2,281,897	210—	2:	2,281,759		23:	2,281,836	250—	8:	2,282,102
		2,281,979			2,282,112		34:	2,281,701		10:	2,282,299
	18:	2,281,667			2,282,225		61:	2,282,207		11:	2,281,668
	22:	2,281,728		55:	2,281,826	230—	56:	2,281,821			2,282,030
	38:	2,281,802		65:	2,281,788		117:	2,282,256			2,282,060
	40:	2,282,033	211—	40:	2,281,845		211:	2,281,925		14:	2,281,920
	49:	2,281,881		77:	2,281,849	233—	23:	2,281,797		15:	2,281,982
	52:	2,281,919		119.18:	2,282,216	235—	2:	2,281,803		20:	2,281,661
		2,282,273	213—	21:	2,281,662			2,282,120			2,281,693
	78:	2,281,941		46:	2,282,171		60:	2,281,742			2,282,068
	151:	2,281,804		47:	2,282,146		61.6:	2,282,028			2,282,092
197—	19:	2,282,107	214—	65:	2,282,137		61.8:	2,282,121		27:	2,281,571
	153:	2,281,688		113:	2,282,201	236—	12:	2,282,152			2,281,572
198—	110:	2,281,725		152:	2,281,713		45:	2,282,125			2,281,876
	189:	2,281,938	215—	40:	2,281,649		61:	2,281,566			2,282,101
200—	37:	2,281,888		79:	2,281,642		68:	2,282,180			2,282,104
	80:	2,281,711	216—	29:	2,282,162	237—	8:	2,282,013			2,282,105
	82:	2,282,228	217—	47:	2,281,908		9:	2,282,014			2,282,108
	83:	2,281,544	219—	4:	2,282,186	238—	349:	2,281,750			2,282,182
		2,281,764		10:	2,281,805	240—	2:	2,282,050		27.5:	2,281,717
	104:	2,281,587		14:	2,282,031		8.1:	2,281,643			2,281,878
	116:	2,281,743		19:	2,282,062		10.1:	2,281,790			2,282,098
		2,281,950			2,282,286		10.63:	2,281,839			2,282,123
	127:	Re.22,092		44:	2,282,078		10.69:	2,282,167			2,282,229
	135:	2,281,795	220—	21:	2,281,653		48.4:	2,282,136		33:	2,282,292
		2,282,279		25:	2,282,011	242—	43:	2,281,747		36:	2,282,130
	138:	2,282,089		26:	2,281,748		55:	2,282,117			2,281,709
	142:	2,281,848		39:	2,282,041		55.3:	2,282,245			2,281,934
	146:	2,281,752		87:	2,281,630		70:	2,282,016			2,281,948
	148:	2,282,153	221—	47.3:	2,281,737			2,282,119		40:	Re.22,087
		2,282,154		64:	2,281,620		71:	2,282,075		41.5:	2,282,198
		2,282,268		67:	2,282,035		76:	2,281,965		61.5:	2,281,931
	150:	2,282,232		74:	2,281,604		104:	2,281,868		173:	2,282,302
	153:	2,281,808		76:	2,281,651			2,282,147		177:	2,282,097
		2,282,219			2,281,738		110:	2,282,156	251—	46:	2,281,689
201—	76:	2,281,843		77:	2,282,172		130:	2,281,983		93:	2,281,697
202—	151:	2,281,847		79:	2,282,034	244—	90:	2,281,696		118:	2,282,188
204—	11:	2,282,260		95:	2,281,727		117:	2,281,673	252—	37:	2,281,623
	163:	2,281,768		105:	2,282,110		149:	2,282,234		39:	2,281,824
	215:	2,282,023	223—	15:	2,281,546	246—	33:	2,281,920		54:	2,281,597
	256:	2,282,058		38:	2,281,970		34:	2,281,890		56:	2,281,676
	298:	2,281,638		68:	2,281,741			2,282,099		58:	2,281,705
206—	1:	2,281,617		83:	2,282,080		38:	2,282,083		135:	2,282,018
	38:	2,281,663		95:	2,281,842		63:	2,281,957		364:	2,281,598
	41.2:	2,282,036	224—	45:	2,281,592	248—	20:	2,281,955		408:	2,281,758
	46:	2,281,923	226—	55:	2,282,199		23:	2,281,769	255—	22:	2,281,982
	56:	2,281,707	229—	3.1:	2,282,000		26:	2,282,174		28:	2,281,850
										73:	2,281,614

257—	64:	2,281,906	266—	23:	2,281,814						
	241:	2,282,087	268—	125:	2,282,240						
	245:	2,281,754	270—	20:	2,281,900						
259—	25:	2,281,974		66:	2,282,126						
	57:	2,281,791	271—	1:	2,282,160						
	109:	2,282,298		27:	2,282,224						
	175:	2,281,820		76:	2,281,704						
260—	3:	2,281,567		87:	2,282,127						
	6:	2,281,584	273—	73:	2,282,195						
	17:	2,281,940		137:	2,282,128						
	19:	2,282,017	274—	10:	2,281,547						
	32:	2,281,613			2,281,548						
	42:	2,282,002		17:	2,282,020						
		2,282,264	275—	2:	2,282,205						
	69:	2,281,559	279—	19.4:	2,282,149						
	73:	2,282,026	280—	42:	2,281,680						
		2,282,037		96.2:	2,281,555						
		2,282,057			2,282,025						
	78:	2,281,576		106:	2,282,227						
		2,281,961	285—	45:	2,281,594						
	79:	2,282,287		53:	2,281,882						
	83:	2,282,088		97.7:	2,281,973						
	117:	2,282,001		170:	2,281,633						
	128:	2,281,968	286—	5:	2,281,905						
	211:	2,282,211	291—	3:	2,282,185						
	240:	2,282,115	292—	340:	2,281,947						
	316:	2,281,583	294—	87:	2,281,730						
	353:	2,282,250		96:	2,282,095						
	397.1:	2,281,622	296—	1:	2,281,586						
	398.5:	2,282,054		44:	2,281,840						
	425:	2,281,884	299—	24:	2,281,760						
	454:	2,281,677		140.1:	2,281,666						
		2,281,692	301—	37:	2,282,222						
	542:	2,281,715	304—	10:	2,282,133						
	564:	2,281,879		32:	2,281,966						
	592:	2,281,942	308—	4:	2,281,632						
	613:	2,281,956		5:	2,281,859						
	660:	2,281,648		77:	2,281,971						
	674:	2,282,231		180:	2,282,161						
	676:	2,281,924		187.2:	2,281,708						
	677:	2,281,911	309—	3:	2,282,254						
	683:	2,281,804		11:	2,282,081						
261—	83:	2,281,616		45:	2,281,873						
		2,281,796									
262—	8:	2,281,928									
264—	3:	2,281,675									
	18:	2,282,178									
265—	1:	2,281,871									
	21:	2,281,712									
	27:	2,282,052									
	45:	2,282,069									
	49:	2,281,838									

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,281,549:	115—	54	2,281,629:	5—	1	2,281,765:	110—105.5		2,282,003:	154—	2.23	2,282,077:	170—	163	2,282,212:	4—	200
2,281,558:	117—	17	2,281,638:	204—	298	2,281,798:	15—	183	2,282,006:	106—	253	2,282,100:	179—	6	2,282,239:	174—	65
2,281,567:	260—	3	2,281,647:	28—	1	2,281,820:	259—	175	2,282,011:	220—	25	2,282,123:	250—	27.5	2,282,254:	309—	3
2,281,577:	101—	94	2,281,648:	260—	660	2,281,846:	146—	119	2,282,046:	179—	15	2,282,158:	91—	54.5	2,282,262:	45—	60
2,281,578:	43—	46	2,281,649:	215—	40	2,281,849:	211—	77	2,282,050:	240—	2	2,282,166:	105—	203	2,282,277:	73—	353
2,281,589:	117—	76	2,281,674:	116—	48	2,281,922:	30—	43	2,282,056:	46—	175	2,282,187:	99—	214	2,282,278:	93—	7
2,281,598:	252—	364	2,281,684:	45—	137	2,281,968:	260—	128	2,282,070:	34—	163	2,282,190:	106—	87	2,282,285:	248—	169
2,281,605:	50—	9	2,281,691:	148—	11.5	2,281,974:	259—	25	2,282,072:	73—	54	2,282,192:	51—	298	2,282,302:	250—	173

U. S. GOVERNMENT PRINTING OFFICE: 1942

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Allum, Ralph D., New York, N. Y. Dehydrated lemons. Serial No. 449,310; May 12. Class 46.

American Sterilizer Company, Erie, Pa. Ultra-violet space sterilizing apparatus. Serial No. 451,736; May 12. Class 44.

Atlas Supply Company, Newark, N. J. Storage battery chargers. Serial No. 447,778; May 12. Class 21.

Atlantic Refining Company, The, Philadelphia, Pa. Petroleum waxes. Serial No. 450,503; May 12. Class 15.

Barbara Coat Co., Inc., New York, N. Y. Women's misses' and children's coats, boys' and youths' coats. Serial No. 451,737; May 12. Class 39.

Barrie-Morell Co., New York, N. Y. Piece goods of wool and wool mixtures and worsted and worsted mixtures. Serial No. 450,504; May 12. Class 42.

Bega Brothers Products Corp., New York, N. Y. Sewing machine belts, motor belts, etc. Serial No. 449,661; May 12. Class 35.

Bendix-Westinghouse Automotive Air Brake Company, Pittsburgh, Pa. Automotive vehicle braking units, brake control valves, air compressors, etc. Serial No. 444,067; May 12. Class 19.

Berger Jewelry Mfg. Co., St. Louis, Mo. Jewelry. Serial No. 446,350; May 12. Class 28.

Bettilou Sportswear Co. (See Czarlinsky, Leon.)

Bolsey, Jacques, New York, N. Y. Cinematographic and photographic apparatus and accessories thereto. Serial No. 451,706; May 12. Class 26.

Bonat, S., & Bro., New York, N. Y. Shampoos. Serial No. 451,407; May 12. Class 6.

Brach's Candy Specialties Company, Chicago, Ill. Candy caramels. Serial No. 450,998; May 12. Class 46.

Burrows, R. C., doing business as The Burrows Company, Chicago, Ill. Sheets, pillow cases, blankets, etc. Serial No. 449,823; May 12. Class 42.

Cameo Corporation, Chicago, Ill. Preparation used as a general household cleanser. Serial No. 441,557–8; May 12. Class 4.

Carter Products, Inc., New York, N. Y. Deodorant. Serial No. 451,795; May 12. Class 6.

Chappel Bros., Inc., Rockford, Ill. Extract for medicinal purposes. Serial No. 450,952; May 12. Class 6.

Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Copper anodes, copper electrical bus bars, electric table and floor lamps, etc. Serial No. 451,409; May 12. Class 21.

Checks, Incorporated, Minneapolis, Minn. Printed matter. Serial No. 446,126–7; May 12. Class 37.

Chicago Mail Order Company, Chicago, Ill. Men's and boys' overalls, work pants, work jackets, etc. Serial No. 451,292–3; May 12. Class 39.

Chicago Pharmacal Company, Chicago, Ill. Preparations for the treatment of diseases of the skin, etc., a pharmaceutical preparation for genito-urinary infection, etc. Serial No. 451,962; May 12. Class 6.

Chisholm & Chapman. (See Du Pont, Francis I., & Co.)

Chocolate Products Company, Chicago, Ill. Vitamin fortified milk. Serial No. 451,622; May 12. Class 46.

Cincinnati Ball Crank Co., Cincinnati, Ohio. Lubrication equipment. Serial No. 450,065; May 12. Class 23.

Clement Grain Co., Waco, Texas. Hog and poultry feed supplements, horse and mule feeds and stock and poultry feeds. Serial No. 441,559; May 12. Class 46.

Cleveland Co-Operative Stove Company, The. Cleveland, Ohio. Cooking ranges. Serial No. 451,031; May 12. Class 34.

Coast Envelope & Leather Products Co., Los Angeles, Calif. Billfolds, empty compacts, key cases, etc. Serial No. 451,358; May 12. Class 3.

Continental Oil Company, Ponca City, Okla. Men's shirts and trousers, overalls, etc. Serial No. 451,004; May 12. Class 39.

Courtaulds, Limited, London, England. Piece goods made of cellulose yarns. Serial No. 450,713; May 12. Class 42.

Curtis-Stephens-Embry Co., Reading, Pa. Women's and misses' shoes. Serial No. 450,563; May 12. Class 39.

Curtis-Stephens-Embry Co., Reading, Pa. Women's and misses' shoes. Serial No. 450,565; May 12. Class 39.

Czarlinsky, Leon, doing business as Bettilou Sportswear Co., Kansas City, Mo. Women's slacks, skirts, dresses, etc. Serial No. 448,498; May 12. Class 39.

Dale Carnegie Courses Corporation, New York, N. Y. Periodical publications, printed books, and bulletins. Serial No. 433,732; May 12. Class 38.

Dellerman, Frank S., doing business as The Park Manufacturing Company, Cincinnati, Ohio. Artificial fishing lures. Serial No. 441,158; May 12. Class 22.

Deltox Rug Company, Oshkosh, Wis. Rugs. Serial No. 450,730; May 12. Class 42.

Deltox Rug Company, Oshkosh, Wis. Rugs, floor mats, and lid and stool covers, etc. Serial No. 450,731; May 12. Class 42.

Du Pont, Francis I., & Co., and Chisholm & Chapman, New York, N. Y. Daily financial news and statistical letters. Serial No. 449,769; May 12. Class 38.

Eaton Manufacturing Company, Detroit, Mich. Engineering bulletins. Serial No. 449,451 May 12. Class 38.

Economy Restaurant Supply Co., New York, N. Y. Canned fruits and canned vegetables. Serial No. 446,453; May 12. Class 46.

Educator Shoe Corporation of America, The, New York, N. Y. Shoes. Serial No. 428,382; May 12. Class 39.

Encore Press, The. (See Smith, Dent.)

Everel Propeller Corporation, Baltimore, Md. Airplane propellers. Serial No. 442,032; May 12. Class 19.

Filigree Quality Foods, Inc., Jersey City, N. J. Canned peas. Serial No. 448,250; May 12. Class 46.

Fillmore Citrus Association, Fillmore, California. Fresh citrus fruits. Serial No. 451,340; May 12. Class 46.

Firth Carpet Company, New York, N. Y. Carpets and rugs. Serial No. 440,931; May 12. Class 42.

Fisher Scientific Company, Pittsburgh, Pa. Electrically-operated instrument which automatically dispenses definite volumes of liquids. Serial No. 451,266; May 12. Class 26.

Fisher Scientific Company, Pittsburgh, Pa. Weights. Serial No. 451,202; May 12. Class 26.

Forrest, Hal, Palm Springs, Calif. Comic series publication. Serial No. 450,795; May 12. Class 38.

French, Gus H., doing business as French Laboratories, Minneapolis, Minn. Laxative pills. Serial No. 446,493; May 12. Class 6.

Gaines, Max C., New York, N. Y. Magazine. Serial No. 448,825; May 12. Class 38.

Gaines, Max C., New York, N. Y. Magazine. Serial No. 448,827; May 12. Class 38.

Garey, Albert A., Beverly Hills, Calif. Ladies', misses' and girls' slack suits and overalls. Serial No. 451,299; May 12. Class 39.

General Electric Company, Schenectady, N. Y. Lamps; electric blankets; television apparatus and parts thereof; etc. Serial No. 449,007; May 12. Class 21.

General Mills, Inc., Minneapolis, Minn. Flour. Serial No. 445,848; May 12. Class 46.

Gerard Milk Products Co. (See Obrecht, G. F.)

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Footwear. Serial No. 451,439; May 12. Class 39.

Gourielli, Inc., New York, N. Y. Perfumes, toilet water and cologne. Serial No. 451,818; May 12. Class 6.

Granular Foods, Inc., New York, N. Y. Combination of dry expanded corn syrup and fatty edible materials. Serial No. 441,432; May 12. Class 46.

Grays Harbor Veneer Corporation, Hoquiam, Wash. Wooden boxes, crates, baskets, and tubs. Serial No. 450,877; May 12. Class 2.

Gruendler Crusher & Pulverizer Co., St. Louis, Mo. Disintegrators, crushers, pulverizers, etc. Serial No. 451,302; May 12. Class 23.

Haines City Citrus Growers Association, Haines City, Fla. Fresh citrus fruit. Serial No. 448,138; May 12. Class 46.

Hillside Citrus Co., Inc., Riverside, Calif. Fresh citrus fruits. Serial No. 449,416; May 12. Class 46.

Johnson & Johnson, New Brunswick, N. J. Baby cream. Serial No. 451,910; May 12. Class 6.

Kaylon, Inc., New York, N. Y. Women's pajamas. Serial No. 447,209; May 12. Class 39.

Kellogg Company, Battle Creek, Mich. Cereal breakfast foods. Serial Nos. 451,494–5; May 12. Class 46.

Kelly, Marion Francis, Richmond, Va. Liquid solvent particularly adapted for increasing motor performance. Serial No. 451,569; May 12. Class 6.

Korbro Oil Corporation, New York, N. Y. Vegetable and salad oils. Serial No. 442,959; May 12. Class 46.

Kroywen Coats, New York, N. Y. Women's and misses' coats and suits. Serial No. 451,719; May 12. Class 39.

La Belle Silver Co., Inc., Glendale, N. Y. Electrical cooking devices. Serial No. 450,969; May 12. Class 21.

La Choy Food Products, Inc., Detroit, Mich. Confection. Serial No. 447,484; May 12. Class 46.

Lake Placid Packing Company, Lake Placid, Fla. Oranges, grapefruit and tangerines. Serial No. 451,722; May 12. Class 46.

Lawrence, Richard Sydney, doing business as R. S. Lawrence & Co., London, England. Cut leather shoe soles. Serial No. 451,384; May 12. Class 39.

Ling, Florence L. K., doing business as Ling Ranch, San Jose, Calif. Walnuts. Serial No. 450,313; May 12. Class 46.

Marine Products Company, San Diego, Calif. Frozen shrimp. Serial No. 443,661; May 12. Class 46.

Marlene Sportswear Co., Inc., New York, N. Y. Ladies' and misses' blouses, skirts, jackets, etc. Serial No. 451,143; May 12. Class 39.
Marley Company, Inc., The, Kansas City, Kans. Liquid cooling towers and parts thereof. Serial No. 451,416; May 12. Class 31.
Marion Confections Corporation, New York, N. Y. Chocolates and candies. Serial No. 448,055; May 12. Class 46.
Marshall Field & Company, Chicago, Ill. Woolen rugs. Serial No. 448,967; May 12. Class 42.
Maternity Dress Co. Inc., New York, N. Y. Women's dresses, blouses, dress ensembles, etc. Serial No. 451,447; May 12. Class 39.
Obrecht, G. Fred, doing business as Gerard Milk Products Company, Baltimore, Md. Poultry feed. Serial No. 446,175; May 12. Class 46.
Pappas, C., Company, Inc., Boston, Mass. Salad oil. Serial No. 429,744; May 12. Class 46.
Parents' Institute, Inc., New York, N. Y. Ladies', misses', and children's dresses, coats, and hats. Serial No. 449,777; May 12. Class 39.
Park Manufacturing Company, The. (See Dellerman, Frank S.)
Pfeiffer, S., Mfg. Co., St. Louis, Mo. Ointment and a lotion for prickly heat, poison oak and ivy, etc. Serial No. 451,317; May 12. Class 6.
Phillips, Ed., & Sons Company, Minneapolis, Minn. Creme de cacao, sloe gin, peppermint schnapps, etc. Serial No. 451,988; May 12. Class 49.
Picardy Mills, Inc., Brooklyn, N. Y. Gloves. Serial No. 451,538; May 12. Class 39.
Planters Cotton Oil & Fertilizer Co., Rocky Mount, N. C. Fertilizers. Serial No. 445,212; May 12. Class 10.
Pure Oil Company, The, Chicago, Ill. Lubricating oil. Serial No. 441,636; May 12. Class 15.
Pure Oil Company, The, Chicago, Ill. Soluble oil for use as cutting oil. Serial No. 441,638; May 12. Class 15.
Rice, Harold A., New York, N. Y. Table game. Serial No. 451,877; May 12. Class 22.
Robaut, Albert, Sanford, Maine. Apples. Serial No. 451,243; May 12. Class 46.
Schenley Import Corporation, New York, N. Y. Wines. Serial No. 451,728; May 12. Class 47.
Sewall & Son, Inc., Auburn, Maine. Strips of composite material from which insoles may be cut. Serial Nos. 426,008–9; May 12. Class 50.
Sharp & Dohme, Incorporated, Philadelphia, Pa. Extracts of digitalis and hydro-alcoholic extract of digitalis and standardized extracts of digitalis and preparations. Serial No. 450,838; May 12. Class 6.
Shawmut Woolen Mills, Inc., Stoughton, Mass. Suits for infants, two-piece dresses, pullovers, etc., for men and women, and bathing suits for boys, women, and children. Serial No. 451,121; May 12. Class 39.
Simpson, Wesley, Inc., New York, N. Y. Rayon, spun rayon, wool, etc. Serial No. 450,430; May 12. Class 42.
Smart Maid Coat Co., Inc., New York, N. Y. Children's and misses' coats. Serial No. 451,021; May 12. Class 39.
Smith, Dent, doing business as The Encore Press, Hoboken, N. J. Magazine. Serial No. 450,347; May 12. Class 38.
Springdale Canning Company, Springdale, Ark. Canned vegetables. Serial No. 451,615; May 12. Class 46.
Standard Register Company, The, Dayton, Ohio. Writing paper, blank checks, and business forms. Serial No. 448,485; May 12. Class 37.
Stark Bros. Ribbon Co., New York, N. Y. Seam binding tape. Serial No. 450,577; May 12. Class 40.
Supervis Bifocal Co., Inc., Seattle, Wash. Bifocal lenses. Serial No. 445,967; May 12. Class 26.
Swan Shoe Company, Inc., Baltimore, Md. Play shoes. Serial No. 449,870; May 12. Class 39.
System Plastics Company, Los Angeles, Calif. Portable plastic holders for collapsible containers or tubes. Serial No. 450,633; May 12. Class 2.
Tannin Corporation, The, New York, N. Y. Tannin extract having a general use in the industrial arts. Serial No. 451,786; May 12. Class 6.
Taylor Instrument Companies, Rochester, N. Y. Thermometers. Serial No. 450,870; May 12. Class 26.
Tobler, Ernst & Traber, Inc., New York, N. Y. Woven fabrics for industrial and technical use. Serial No. 450,928; May 12. Class 42.
United Cigar-Whelan Stores Corporation, New York, N. Y. External application for the relief of discomforts due to common colds. Serial No. 439,507; May 12. Class 6.
Vent, Bruce R., Michigan City, Ind. Optical glass. Serial No. 452,031; May 12. Class 26.
Viavi Company, The, San Francisco, Calif. Vitamins. Serial No. 451,699; May 12. Class 6.
Victor Glove Company, Inc., New York, N. Y. Cloth. Serial No. 449,814; May 12. Class 42.
Volf, Christian A., New York, N. Y. Articles, especially illustrated articles and picture strips. Serial No. 445,183; May 12. Class 38.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric fans. Serial No. 450,889; May 12. Class 21.
Weston, George, Ltd., Passaic, N. J. Biscuits, crackers, and cookies. Serial No. 445,970; May 12. Class 46.
Willard Storage Battery Company, Cleveland, Ohio. Storage batteries and parts thereof. Serial No. 451,430; May 12. Class 21.
Williams, R. C., & Company, Inc., New York, N. Y. Fountain syrups. Serial No. 443,902; May 12. Class 45.
Wolverine Battery Company, The, Grand Rapids, Mich. Wet or dry cell storage batteries. Serial No. 450,558; May 12. Class 21.
Wulling, Chas., doing business as Wultex Products, Clara City, Minn. Antiseptic for treating drinking water for poultry. Serial No. 451,922; May 12. Class 6.
Wultex Products. (See Wulling, Chas.)

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Deodorizer and disinfectant. 395,054; May 12; Serial No. 441,803; published May 20, 1941. Class 6.
Abbott Laboratories, North Chicago, Ill. Vitamin preparations. 395,164–6; May 12; Serial Nos. 449,876–8; published Feb. 24, 1942. Class 6.
Abraham & Straus, Inc., Brooklyn, N. Y. Children's underwear and hosiery. 395,185; May 12. Class 39.
Abraham & Straus, Inc., Brooklyn, N. Y. Dresses, aprons, and housecoats. 395,201; May 12. Class 39.
Adams, Lawrence L., doing business as L L's Antiseptic, Nashville, Tenn. Medicines for the relief of athlete's foot, eczema, burns, heat pimples, etc. 395,041; May 12; Serial No. 437,671; published Mar. 3, 1942. Class 6.
Aga Stove Company, Incorporated, Cranford, N. J. Solid fuel burning cooking stoves. 395,139; May 12; Serial No. 449,442; published Mar. 3, 1942. Class 34.
American Brake Shoe and Foundry Company, The, New York, N. Y. Air compressors, motor driven air compressors units, air controlled automobile lifts, etc. and parts thereof. 395,193; May 12. Class 23.
American Metal Moulding Company, Irvington, N. J. Flexible armored cable for electrical use. 395,098; May 12; Serial No. 448,716; published Mar. 3, 1942. Class 21.
American Optical Company, Southbridge, Mass. Ophthalmic mountings, lenses, blanks for such lenses, etc. 395,156; May 12; Serial No. 449,748; published Mar. 3, 1942. Class 26.
American Vapor, Inc., New York, N. Y. Babbitt metal. 395,150; May 12; Serial No. 449,633; published Feb. 24, 1942. Class 14.
American Viscose Corporation, Wilmington, Del. Conditioning media for yarns, threads, and filaments. 395,152–3; May 12; Serial Nos. 449,731–2; published Feb. 24, 1942. Class 6.
Antiseptol Company, Inc., Chicago, Ill. Preparations for use in hair and scalp treatments. 395,051; May 12; Serial No. 440,615; published Feb. 24, 1942. Class 6.
Arden, Elizabeth, Sales Corporation, New York, N. Y. Perfumes, toilet water, nail polish, and rouges. 395,146; May 12; Serial No. 449,596; published Mar. 3, 1942. Class 6.
Arrow, Bernard, Brooklyn, N. Y. Deodorants. 395,043; May 12; Serial No. 439,009; published Mar. 3, 1942. Class 6.
A'Vell's Co. (See Evington, Elva.)
Barnes, Reinecke & Rebholz, Chicago, Ill. Toy paperboard figures. 395,100–1; May 12; Serial Nos. 448,776–7; published Mar. 3, 1942. Class 22.
Barricini Inc., New York and Long Island City, N. Y. Ice-cream, ices, pastries. 395,102; May 12; Serial No. 448,845; published Mar. 3, 1942. Class 46.
Barricini Inc., New York and Long Island City, N. Y. Non-alcoholic beverages. 395,103; May 12; Serial No. 448,846; published Mar. 3, 1942. Class 45.
Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic lenses. 159,273; renewed Sept. 26, 1942.
Beachette Co., The, Fort Lauderdale, Fla. Canvas beach shelters and canvas windbreaks. 395,073; May 12; Serial No. 446,287; published Nov. 25, 1941. Class 50.
Bender, Matthew, & Company, Incorporated, Albany and New York, to Matthew Bender & Company, Incorporated, Albany, N. Y. Printed books. 158,892; renewed Sept. 19, 1942.
Black, Lester G., doing business as The Black Drill Co., Cleveland, Ohio. Metal drills and reamers. 395,123; May 12; Serial No. 449,167; published Mar. 3, 1942. Class 23.
Blanck, Joseph I., doing business as Health-Gard Process Co., Brooklyn, N. Y. Liquid cleaner for cloths and furs. 395,034; May 12; Serial No. 416,500; published Feb. 4, 1941. Class 4.
Böhme Fettchemie G. m. b. H., Chemnitz, Germany. Wetting, finishing, dyeing, and bleaching agents in the textile and leather industry. 395,048; May 12; Serial No. 439,855; published Feb. 24, 1942. Class 6.
Boyle, A. S., Company, The. (See Kant Rust Products Corporation, assignor.)

Brod, Louis, doing business as L. Brod & Company, Philadelphia, Pa. Women's and children's blouses, slacks, play suits, etc. 395,205; May 12. Class 39.
Buckeye Portable Tool Co., The, Dayton, Ohio. Manually supported motor units. 395,087; May 12; Serial No. 447,994; published Mar. 3, 1942. Class 23.
Butcher, W. & S., Limited, Sheffield, England, assignor to Durham Duplex Razor Company, Mystic, Conn. Cutlery and edge tools. 151,439; renewed Feb. 7, 1942.
Casco Products Corporation, Bridgeport, Conn. Rotary cutting and carving tools and electrically operated hand held chucks, or drivers therefor. 395,062; May 12; Serial No. 443,971; published Feb. 24, 1942. Class 23.
Charles of the Ritz, Inc., New York, N. Y. Lipstick and dry rouge. 395,159; May 12; Serial No. 449,793; published Mar. 3, 1942. Class 6.
Charlotte Chemical Laboratories, Inc., Charlotte, N. C. Organic amine compound. 395,097; May 12; Serial No. 448,670; published Feb. 24, 1942. Class 6.
Cheney Brothers, South Manchester, Conn., to Cheney Brothers, South Manchester, Conn., and New York, N. Y. Woven, knitted, netted, etc. fabrics in the piece. 156,204–5; renewed June 20, 1942.
Cheramy, Inc., New York, N. Y. Perfumes, toilet waters, face powders, etc. 159,310; renewed Sept. 26, 1942.
Chess, Mary, Inc., New York, N. Y. Perfume. 395,182; May 12; Serial No. 450,256; published Feb. 24, 1942. Class 6.
Children's Products Company. (See Hecht, George J.)
Claridge Food Corp., New York, N. Y. Canned and bottled potato salad, rice with mushrooms, macaroni salad, etc. 395,194; May 12. Class 46.
Cleveland Co-Operative Stove Company, The, Cleveland, Ohio. Gas range cocks. 395,188; May 12; Class 13.
Cluett, Peabody & Co., Inc., Troy, N. Y. Collars. 395,207; May 12. Class 39.
Cohn-Hall-Marx Co., New York, N. Y. Cotton piece goods. 158,640; renewed Sept. 12, 1942.
Cohn, Nat, doing business as Modern Amusement Sales Company, New York, N. Y. Vending and amusement devices. 395,190; May 12. Class 23.
Cole of California, Inc., Los Angeles, Calif. Garments—namely swimming suits. 395,050; May 12; Serial No. 440,580; published Feb. 17, 1942. Class 39.
Consolidated Hat Stores, Ltd., doing business as New York Hat Stores, Los Angeles, Calif. Ladies' and men's sportswear—namely, sport shirts, jackets, coats and sweaters. 395,074; May 12; Serial No. 446,314; published Feb. 24, 1942. Class 39.
Cooper, Maxwell, & Co. Limited, London, England. Articles of clothing for women comprising maternity gowns. 395,058; May 12; Serial No. 443,300; published Feb. 24, 1942. Class 39.
Cracker Jack Co., The. (See Rueckheim Bros. & Eckstein, assignor.)
Crown Fastener Corporation, Warren, R. I. Separable slide fasteners. 395,063; May 12; Serial No. 444,073; published Sept. 9, 1941. Class 13.
Crystal, David, Inc., New York, N. Y. Dresses and dress ensembles. 395,134; May 12; Serial No. 449,366; published Feb. 17, 1942. Class 39.
Dalkin, A., Co., Chicago, Ill. Vending machines. 395,147; May 12; Serial No. 449,601; published Feb. 24, 1942. Class 23.
De Toledo Frères S. A. Pharmacie Principale, Geneva, Switzerland. Analgetic pharmaceutical products in the form of powders, syrups, pills, etc. 395,044; May 12; Serial No. 439,015; published Mar. 3, 1942. Class 6.
Diversey Corporation, The, Chicago, Ill. Device for spraying disinfecting solutions on food-handling equipment. 395,187; May 12. Class 23.
Dorgan Packing Corp., Mobile, Ala., and Biloxi, Miss. Canned shrimp. 395,114; May 12; Serial No. 449,041; published Mar. 3, 1942. Class 46.
Douglas Oil & Refining Co., Los Angeles, Calif. Electric motors and storage batteries. 395,195; May 12. Class 21.
Drink-Mor Beverage Company, Wilkes-Barre, Pa. Root beer. 395,039; May 12; Serial No. 436,710; published Dec. 31, 1940. Class 45.
Dunham Company, The, Berea, Ohio. Disc harrows, rotary hoes, mulchers, etc. 395,197; May 12. Class 23.
Duquesne Brewing Company of Pittsburgh, Pittsburgh, Pa. Beer and ale. 395,042; May 12; Serial No. 438,978; published Feb. 11, 1941. Class 48.
Durham Duplex Razor Company. (See Butcher, W. & S., Limited, assignor.)
Dyshel, Benjamin H., doing business as Victory Letter-Velope Co., Philadelphia, Pa. Letter heads, envelopes, and combined letter heads and envelopes. 395,135; May 12; Serial No. 449,368; published Mar. 3, 1942. Class 37.
Electric Storage Battery Company, The, Philadelphia, Pa. Electric storage batteries or accumulators, their parts and supplies. 395,127; May 12; Serial No. 449,225; published Mar. 3, 1942. Class 21.
Ellison Insulations Limited, Perry Barr, Birmingham, England. Materials made wholly or in part from synthetic resinoids. 395,064–8; May 12; Serial Nos. 444,140–4; published Mar. 3, 1942. Class 1.
Evington, Elva, doing business as A'Vell's Co., Chicago, Ill. Toilet preparations. 395,038; May 12; Serial No. 435,124; published Mar. 3, 1942. Class 6.
Fairchild Bros. & Foster. (See Sanozym, Incorporated, assignor.)
Farnam, F. D., doing business as F. D. Farnam & Co., Chicago, Ill. Paper and composition gaskets and gasketing tape. 395,083; May 12; Serial No. 447,528; published Mar. 3, 1942. Class 35.
Federated Foods, Inc., also doing business as Federated Foods, Chicago, Ill. Household bleach. 395,084; May 12; Serial No. 447,802; published Feb. 24, 1942. Class 6.
Fleisher Yarns, Inc., New York, N. Y. Yarns. 395,136; May 12; Serial No. 449,370; published Mar. 3, 1942. Class 43.
Fleming and Sons, Inc., Dallas, Tex. Tacks. 395,202; May 12. Class 13.
Folger, J. A., & Company, Kansas City, Mo. Coffee. 395,209; May 12. Class 46.
Foster & Davies, Inc., Cleveland, Ohio. Reflectors, shades, and screens for electric lamps. 395,046; May 12; Serial No. 439,197; published Mar. 3, 1942. Class 34.
Foster, Dorothy R., Passaic, N. J. Women's and misses' jackets. 395,036; May 12; Serial No. 430,441; published June 18, 1940. Class 39.
Fraser Products Co. Detroit, Mich. Reversible ironing board covers. 395,056; May 12; Serial No. 442,356; published July 15, 1941. Class 24.
Friedman-Marks Clothing Company, Inc., Richmond, Va. Men's suits and coats. 395,203–4; May 12. Class 39.
Frigerbar Corporation, The, Kansas City, Mo. Air purifying compound. 395,130; May 12; Serial No. 449,260; published Feb. 24, 1942. Class 6.
Frontier Bronze Corporation, Niagara Falls, N. Y. Nonferrous metal castings. 159,354; renewed Sept. 26, 1942.
General Chemical Company, New York, N. Y. Metal polish in paste form. 395,161; May 12; Serial No. 449,837; published Mar. 3, 1942. Class 4.
Gerst, William, Brewing Co., Inc., The, Nashville, Tenn. Beer. 395,107; May 12; Serial No. 448,904; published Mar. 3. Class 48.
Gillette Safety Razor Company, Boston, Mass. Safety razors and safety razor blades. 395,052; May 12; Serial No. 440,719; published Apr. 22. Class 23.
Glidden Company, The, Cleveland, Ohio. Phosphatides. 395,154; May 12; Serial No. 449,735; published Mar. 3, 1942. Class 6.
Goldberg Brothers, Denver, Colo. Moving picture reels. 395,145; May 12; Serial No. 449,574; published Mar. 3, 1942. Class 26.
Gold Seal Products Company, Inc., by change of name to Urbana Wine Company, Inc., Urbana, New York. Champagnes and wine. 157,962; renewed Aug. 22, 1942.
Goodrich, B. F., Company, The. (See Rubens, Barney, assignor.)
Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Electric storage batteries. 395,157; May 12; Serial No. 449,771; published Mar. 3, 1942. Class 21.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Tires. 395,181; May 12; Serial No. 450,179; published Mar. 3, 1942. Class 35.
Grant, W. T., Company, New York, N. Y. Hosiery. 395,189; May 12. Class 39.
Haft, Morris W., & Bros., Inc., New York, N. Y. Women's and misses' suits and coats. 395,075; May 12; Serial No. 446,625; published Feb. 24, 1942. Class 39.
Hansen's, Chr., Laboratory, Inc., Little Falls, N. Y. Food colors for desserts, candies, ice cream, etc. 154,243; renewed April 11, 1942.
Hansen's, Chr., Laboratory, Inc., Little Falls, N. Y. Butter color, cheese color, and rennet extract. 154,244; renewed Apr. 11, 1942.
Hansen's, Chr., Laboratory, Inc., Little Falls, N. Y. Buttermilk tablets. 154,513; renewed Apr. 18, 1942.
Health-Gard Process Co. (See Blanck, Joseph I.)
Hecht & Biern, New York, N. Y. Ladies' sweaters. 395,128; May 12; Serial No. 449,232; published Feb. 17, 1942. Class 39.
Hecht, George J., doing business as Children's Products Company, New York, N. Y. Children's sweaters and dresses. 395,049; May 12; Serial No. 439,932; published Feb. 24, 1942. Class 39.
Hecht, George J., doing business as Children's Products Company, New York, N. Y. Children's sweaters, dresses, suits, coats, housecoats, blouses, etc. 395,078; May 12; Serial No. 447,236; published Feb. 24, 1942. Class 39.
Heinemeyer, Herman A., Roselle Park, N. J. Food nutrient having therapeutic properties. 395,089; May 12; Serial No. 448,080; published Mar. 3, 1942. Class 6.
Henry, Sidney, doing business as S. H. Hirsch, New York, N. Y. Perfume and toilet water, face powder and lipstick. 395,171–3; May 12; Serial Nos. 449,939–41; published Feb. 24, 1942. Class 6.
Hoosier Desk Company, Jasper, Ind. Desks and office tables. 158,984; renewed Sept. 19, 1942.
International Paper Company, New York, N. Y. Wrapping paper. 395,140; May 12; Serial No. 449,457; published Mar. 3, 1942. Class 37.
Interstate Shade Cloth Co., Hoboken, N. J. Shade rollers. 157,527; renewed Aug. 2, 1942.

Irwin, Robert W., Company, Grand Rapids, Mich. Ready-mixed paints, and varnishes. 395,081; May 12; Serial No. 447,514; published Feb. 24, 1942. Class 16.

Jasepr Desk Company, The, Jasper, Ind. Office furniture. 155,461; renewed May 30, 1942.

Jayne, D., Dr., & Son, Inc., Philadelphia, Pa. Medicinal preparations comprising vitamins and iron. 395,160; May 12; Serial No. 449,800; published Feb. 24, 1942. Class 6.

Kant Rust Products Corporation, Rahway, N. J., assignor to The A. S. Boyle Company, Jersey City, N. J. Chemical solvent for increasing and improving the efficiency of lubricating oils. 395,071; May 12; Serial No. 445,737; published Mar. 3, 1942. Class 6.

Knox Company, The, Los Angeles, Calif. Medicinal preparations for the treatment of disorders of the liver and intestines, etc. 395,088; May 12; Serial No. 448,054; published Mar. 3, 1942. Class 6.

Kroger Grocery & Baking Company, The, Cincinnati, Ohio. Wallpaper cleaner, glass cleaner and soap flakes. 395,162; May 12; Serial No. 449,859; published Feb. 24, 1942. Class 4.

Kroger Grocery & Baking Company, The, Cincinnati, Ohio. Sal soda, chlorite, and water softener. 395,163; May 12; Serial No. 449,860; published Mar. 3, 1942. Class 6.

L L's Antiseptic. (See Adams, Lawrence L.)

L So & Co. (See Oakland Toggery.)

Lady Esther Sales Co., Chicago, Ill. Face powder. 395,060; May 12; Serial No. 443,510; published July 22, 1941. Class 6.

Langley & Michaels Co., San Francisco, Calif., assignor by mesne assignments, to McKesson & Robbins, Incorporated, New York, N. Y. Soda fountains, carbonators, and soda-fountain machinery. 159,408; renewed Sept. 26, 1942.

Langley & Michaels Co., San Francisco, Calif., assignor by mesne assignments, to McKesson & Robbins, Incorporated, New York, N. Y. Antiseptic and germicidal solution. 159,409; renewed Sept. 26, 1942.

Lanteen Medical Laboratories, Inc., Chicago, Ill. Preparation or product in tablet or powdered form for the purpose of making up any vitamin deficiency in the diet. 395,158; May 12; Serial No. 449,774; published Mar. 3, 1942. Class 6.

Larus & Brother Company, Inc., Richmond, Va. Tobacco and tobacco products. 395,186; May 12. Class 17.

Lehn & Fink Products Corporation, Bloomfield, N. J. Lipsticks, rouge, vanity cases containing rouge and/or lipsticks, cologne, etc. 395,180; May 12; Serial No. 450,106; published Feb. 24, 1942. Class 6.

Letter Velope Co. (See Dyshel, Benjamin H.)

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. 395,148; May 12; Serial No. 449,617; published Feb. 24, 1942. Class 6.

Lingo, Wm. B., doing business as Medical Supply Company, St. Petersburg, Fla. Insecticides. 395,104; May 12; Serial No. 448,867; published Mar. 3, 1942. Class 6.

Lundberg, Eric, New York, N. Y. Table tennis balls. 395,178; May 12; Serial No. 450,072; published Mar. 3, 1942. Class 22.

Maison Jeurelle-Seventeen, Inc., New York, N. Y. Perfumes, cream rouge, eye shadow, etc. 395,099; May 12; Serial No. 448,768; published Mar. 3, 1942. Class 6.

Marcy Laboratories, Inc., New York, N. Y. Cholagogue evacuant. 395,151; May 12; Serial No. 449,649; published Feb. 24, 1942. Class 6.

Markay, Inc., Kansas City, Mo. Dresses, and slack suits, and play suits. 395,045; May 12; Serial No. 439,112; published Feb. 17, 1942. Class 39.

Marsh, Jordan, Company, Boston, Mass. Hooks and eyes. 157,695; renewed Aug. 15, 1942.

Martin, L., Company, Inc., The, New York, N. Y. Lampblack for use as an ink pigment. 395,111; May 12; Serial No. 449,011; published Jan. 20, 1942. Class 11.

Marvellum Company, The, Holyoke, Mass. Cover paper. 159,431; renewed Sept. 26, 1942.

McKesson & Robbins, Incorporated. (See Langley & Michaels Co., assignor.)

Medical Supply Company. (See Lingo, Wm. B.)

Merchantville Hosiery Company, Merchantville, N. J. Hosiery. 395,184; May 12. Class 39.

Mercury Corporation, The, Kansas City, Mo. Combination battery charging and testing apparatus. 395,059; May 12; Serial No. 443,422; published Mar. 3, 1942. Class 26.

Merejko, Vera A., New York, N. Y. Dresses, suits, and coats. 395,121; May 12; Serial No. 449,147; published Feb. 17, 1942. Class 39.

Metal and Alloy Specialties Company, Inc., Buffalo, N. Y. Nonrusting and corrosion-resisting alloy and castings made therefrom. 159,436; renewed Sept. 26, 1942.

Micro Switch Corporation, Freeport, Ill. Overload and overheat protectors for electric motors and for circuit controlling protectors for electric apparatus and power translating devices. 395,047; May 12; Serial No. 439,354; published Mar. 11, 1941. Class 21.

Micromatic Hone Corporation, Detroit, Mich. Size control devices for determining radial operation of the tool of the honing machine. 395,053; May 12; Serial No. 441,320; published Mar. 3, 1942. Class 26.

Miller, Douglas, Company. (See Spare, Edward A.)

Modern Amusement Sales Company. (See Cohn, Nat.)

Moneau Corp. of New York, New York, N. Y. Perfumes, toilet waters, and face lotions. 395,143; May 12; Serial No. 449,528; published Mar. 3, 1942. Class 6.

Moordale Casuals, Inc., Chicago, Ill. Suits, coats, dresses, and slacks. 395,142; May 12; Serial No. 449,491; published Feb. 17, 1942. Class 39.

Morrell, John, & Co., Ottumwa, Iowa. Marmalade, plum pudding, dairy products, etc. 159,445; renewed Sept. 26, 1942.

Myers, Ralph E., doing business as Ralph E. Myers Co., Salinas, Calif. Fresh vegetables. 395,177; May 12; Serial No. 450,058; published Mar. 3, 1942. Class 46.

National Carbon Company, Inc., New York, N. Y. Electric dry cells and dry cell batteries. 395,109; May 12; Serial No. 448,980; published Mar. 3, 1942. Class 21.

National Oil Products Company, Harrison, N. J. Fish oil or fish liver oil, etc. 395,122; May 12; Serial No. 449,148; published Mar. 3, 1942. Class 6.

National Silver Company, New York, N. Y. Cutlery. 395,192; May 12. Class 23.

Nevins Fruit Co., Inc., New York, N. Y. Fresh citrus fruits. 395,077; May 12; Serial No. 446,888; published Mar. 3, 1942. Class 46.

New York Hat Stores. (See Consolidated Hat Stores, Ltd.)

Nissen, John P., Jr.; doing business as John P. Nissen, Jr., Co., Wyncote, Pa. Textile printing colors—i. e., ink. 395,037; May 12; Serial No. 433,982; published Feb. 24, 1942. Class 11.

Nutrition Research Laboratories, Chicago, Ill. Vitamin preparations, of vitamins A, B_1, D, and G. 395,069; May 12; Serial No. 444,766; published Aug. 5, 1941. Class 6.

Oakland Toggery, The, also doing business as L So & Co., Oakland, Calif. Hosiery. 395,149; May 12; Serial No. 449,625; published Feb. 24, 1942. Class 39.

Ohio Rubber Company, The, Willoughby, Ohio. Dust and oil seals. 395,057; May 12; Serial No. 442,966; published Mar. 3, 1942. Class 35.

Ondolea Company. (See Stein, Hermann.)

Orth, Ph., Co., Milwaukee, Wis. Icing. 395,110; May 12; Serial No. 448,983; published Mar. 3, 1942. Class 46.

Oxford Products, Inc., Cleveland, Ohio. Vitamin preparations. 395,091; May 12; Serial No. 448,331; published Feb. 24, 1942. Class 6.

Packers Tar Soap, Inc., Mystic, Conn., and New York, N. Y. Shampooing preparation. 395,125–26; May 12; Serial Nos. 449,210–11; published Feb. 24, 1942. Class 6.

Pan-American Distributing Co., Charlotte, N. C. Special purpose food for human consumption, containing rice bran, wheat, oat flour, etc. 395,176; May 12; Serial No. 450,020; published Mar. 3, 1942. Class 46.

Paramount Aquarium, Inc., New York, N. Y. Pet food products and aquarium products—namely, fish food. 395,092; May 12; Serial No. 448,456; published Mar. 3, 1942. Class 46.

Parfums Schiaparelli, Inc., New York, N. Y. Perfumes, toilet waters, and face and talcum powders. 395,115–17; May 12; Serial Nos. 449,055–7; published Mar. 3, 1942. Class 6.

Parfums Schiaparelli, Inc., New York, N. Y. Perfumes, lipsticks, rouges, toilet waters, etc. 395,118; May 12; Serial No. 449,060; published Mar. 3, 1942. Class 6.

Parfums Schiaparelli, Inc., New York, N. Y. Perfumes, lipsticks, rouges, toilet waters, etc. 395,119–20; May 12; Serial Nos. 449,063–4; published Mar. 3, 1942. Class 6.

Parfums Schiaparelli, Inc., New York, N. Y. Perfumes, lipsticks, rouges, toilet waters, etc. 395,137–8; May 12; Serial Nos. 449,386–7; published Mar. 3, 1942. Class 6.

Parke, Davis & Company, Detroit, Mich. Preparation for the treatment of certain types of syphilis and related infections. 395,183; May 12; Serial No. 450,315; published Mar. 3, 1942. Class 6.

Parsons Paper Company, Holyoke, Mass. Bond, linen and ledger papers. 395,090; May 12; Serial No. 448,167; published Mar. 3, 1942. Class 37.

Pennsylvania Saw Corporation, York, Pa. Saws. 395,208; May 12. Class 23.

Penotrite Products Company. (See Voehringer, Carl.)

Peppard, J. G., Seed Co., assignor to Peppard Seed Company, Kansas City, Mo. Seeds. 156,389; renewed June 20, 1942.

Phoenix Closet Accessories, Inc., New York, N. Y. Garment bags, laundry bags, and shoe bags. 395,108; May 12; Serial No. 448,953; published Mar. 3, 1942. Class 2.

Pine Coco Products Incorporated, Des Moines, Iowa. Shampoos, rinses, and hair oils. 395,144; May 12; Serial No. 449,553; published Feb. 24, 1942. Class 6.

Porter Chemical Company, The, Hagerstown, Md. Chemicals. 159,063; renewed Sept. 19, 1942.

Powertown Tire and Rubber Co. (See Rubens, Barney.)

Premo Pharmaceutical Laboratories, Inc., New York, N. Y. Cough and bronchial syrup. 395,112; May 12; Serial No. 449,017; published Feb. 24, 1942. Class 6.

Premo Pharmaceutical Laboratories, Inc., New York, N. Y. Vitamin capsules. 395,179; May 12; Serial No. 450,077; published Mar. 3, 1942. Class 6.

Radiomarine Corporation of America, New York, N. Y. Radio transmitters, radio receivers, direction finders, etc., and parts thereof. 395,198; May 12. Class 21.

Radley, Mamie, doing business as Mrs. J. W. Radley, Honston, Tex. Preparation to help prevent and for use in the treatment of coccidiosis in chicks. 395,105; May 12; Serial No. 448,873; published Feb. 24, 1942. Class 6.

Raytheon Production Corporation, Newton, Mass. Electrical space discharge tubes. 395,167–69; May 12; Serial Nos. 449,914–16; published Mar. 3, 1942. Class 21.

Red-ee Foods, Inc., Los Angeles, Calif. Partly prepared applesauce. 395,085; May 12; Serial No. 447,822; published Mar. 3, 1942. Class 46.

Reid National Corn Company, Anamosa, Iowa. Hybrid seed corn. 395,131; May 12; Serial Nos. 449,327; published Mar. 3, 1942. Class 1.

Richards, Frederick K., New York, N. Y. Lamp masks, shades, and filters for blackout purposes. 395,155; May 12; Serial No. 449,741; published Mar. 3, 1942. Class 34.

Richardson Corporation, Rochester, N. Y. Root beer and syrup used in making root beer. 395,080; May 12; Serial No. 447,491; published Mar. 3, 1942. Class 45.

Riesser, Frank J., Ft. Thomas, Ky. Ointment for rectal irritations. 395,132; May 12; Serial No. 449,329; published Feb. 24, 1942. Class 6.

Rosenberg Bros. & Co., San Francisco, Calif. Dried currants. 395,191; May 12. Class 46.

Rotary Lift Company, Memphis, Tenn. Non-electric freight and passenger elevators and automobile, bus, truck, and freight lifts. 395,070; May 12; Serial No. 445,068; published Feb. 24, 1942. Class 23.

Rubens, Barney, doing business as Powertown Tire and Rubber Co., Rochester, N. Y., assignor to The B. F. Goodrich Company, Akron, Ohio. Automobile tires. 395,035; May 12; Serial No. 423,712; published Jan. 16, 1940. Class 35.

Rueckheim Bros. & Eckstein, Chicago, Ill., assignor to The Cracker Jack Co., assignor to The Cracker Jack Co., Chicago, Ill. Chocolate bars. 158,290; renewed Aug. 29, 1942.

Sanozym, Incorporated, assignor to Fairchild Bros. & Foster, New York, N. Y. Dentifrice in the form of a paste, a wash, or a powder. 154,380; renewed Apr. 11, 1942.

Sarfert Hosiery Mills, Inc., Philadelphia, Pa. Hose. 395,190; May 12. Class 39.

Schratz, Inc., Detroit, Mich. Bath crystals and oils, water softening preparations, and perfumes. 395,106; May 12; Serial No. 448,874; published Feb. 24, 1942. Class 6.

Scientific Oil Compounding Co., The, Chicago, Ill. Compound or composition of bodied oiticica oil. 395,072; May 12; Serial No. 445,782; published Feb. 24, 1942. Class 16.

Scofield, John H., doing business as Scofield Hatchery, Peoria, Ill. Poultry. 395,124; May 12; Serial No. 449,193; published Mar. 3, 1942. Class 46.

Serra, Arthur, and Co., Hollywood, Fla. Canned pineapple. 395,093; May 12; Serial No. 448,531; published Mar. 3, 1942. Class 46.

Sices & Rieger, Incorporated, Chicago, Ill. Ladies' cloth coats. 395,061; May 12; Serial No. 443,860; published Oct. 21, 1941. Class 39.

Skinner, William, & Sons, New York, N. Y., and Holyoke, Mass. Silk and silk and cotton fabrics in the piece. 154,388; renewed Apr. 11, 1942.

Skinner, William, & Sons, New York, N. Y., and Holyoke, Mass. Silks in the piece. 156,421; renewed June 20, 1942.

Sontag Chain Stores Co., Ltd., Los Angeles, Calif. Radio tubes. 395,032; May 12; Serial No. 392,563; published Sept. 21, 1937. Class 21.

Spare, Edward A., doing business as Douglas Miller Company, Camden, N. J. Tablet for headaches. 395,094; May 12; Serial No. 448,532; published Feb. 24, 1942. Class 6.

Special Foods Co., Chicago, Ill. Potato chips, popped and seasoned popcorn, and caramel coated popped popcorn. 395,206; May 12. Class 46.

Squibb, E. R., & Sons, New York, N. Y. Anti-venereal preparations. 395,170; May 12; Serial No. 449,925; published Feb. 24, 1942. Class 6.

Standard Brands Incorporated. (See Ward Baking Company, assignor.)

Standard Crayon Manufacturing Co., by change of name, to Standard Crayon Manufacturing Corporation, Danvers, Mass. Wax and chalk crayons. 159,537–40; renewed Sept. 26, 1942.

Standard Oil Company, The, Cleveland, Ohio. Chemical solutions, chemically treated towels and containers for same. 395,196; May 12. Class 4.

Standard Playing Card Company. (See United States Playing Card Company, The, assignor.)

Steel Storage File Company, The, Cleveland, Ohio. Filing cabinets. 395,033; May 12; Serial No. 412,312; published Mar. 3, 1942. Class 32.

Stein, Hermann, doing business as The Ondolea Company, New York, N. Y. Hair waving and fixing solutions and shampoos. 395,129; May 12; Serial No. 449,243; published Feb. 24, 1942. Class 6.

Strong Cobb & Co., Inc., Cleveland, Ohio. Vitamin preparations. 395,095; May 12; Serial No. 448,534; published Feb. 24, 1942. Class 6.

Tormey, Bello & Cia. Sociedad de Responsablilidad Limitada, Buenos Aires, Argentine. Cheese. 395,175; May 12; Serial No. 449,971; published Mar. 3, 1942. Class 46.

Turlipseed, L., Inc., St. Louis, Mo. Liniment. 395,086; May 12; Serial No. 447,962; published Feb. 24, 1942. Class 6.

United Aircraft Corporation, East Hartford, Conn. Aircraft and parts thereof. 395,082; May 12; Serial No. 447,536; published Mar. 3, 1942. Class 19.

United Drug Company, assignor to United Drug Company, Boston, Mass. Nonalcoholic vehicle or base for use by pharmacists in compounding prescriptions. 154,169; renewed Apr. 4, 1942.

United States Playing Card Company, The, Cincinnati, assignor to Standard Playing Card Company, assignor, by mesne assignments, to The United States Playing Card Company, East Norwood, Cincinnati, Ohio. Playing cards. 158,843; renewed Sept. 12, 1942.

United States Rubber Company, New York, N. Y. Asbestos yarns. 395,141; May 12; Serial No. 449,471; published Feb. 17, 1942. Class 43.

Urbana Wine Company, Inc. (See Gold Seal Products Company, Inc.)

Vanderbilt, R. T., Company, Inc., New York, N. Y. Extender for latex and dispersed rubber. 395,133; May 12; Serial No. 449,363; published Mar. 3, 1942. Class 6.

Voehringer, Carl, doing business as Penotrite Products Company, Long Island City, N. Y. Liquid solvent. 395,055; May 12; Serial No. 441,891; published May 27, 1941. Class 6.

Walker-Gordon Laboratory Company, Inc., Plainsboro, N. J. Milking machines. 395,174; May 12; Serial No. 449,947; published Mar. 3, 1942. Class 23.

Ward Baking Company, assignor to Standard Brands Incorporated, New York, N. Y. Bread. 159,576 renewed Sept. 26, 1942.

Waters, Norman D., & Associates, Inc., New York, N. Y. Sweaters. 395,079; May 12; Serial No. 447,261; published Feb. 24, 1942. Class 39.

Western Auto Supply Company, Los Angeles, Calif. Mufflers for internal combustion engines. 395,113; May 12; Serial No. 449,029; published Feb. 24, 1942. Class 23.

Wilhoits' Inc., Los Angeles, Calif. Knit wear—namely sweaters. 395,096; May 12; Serial No. 448,539; published Mar. 3, 1942. Class 39.

Williams, R. C., & Company, Inc., New York, N. Y. Canned vegetables; fruits; fruits and vegetable juices, etc. 395,040; May 12; Serial No. 437,427; published Mar. 3, 1942. Class 46.

Worthington Seed Co., Los Angeles, Calif. Garden vegetable seeds. 395,200; May 12, 1942. Class 1.

Worthy-Miss Dresses, Inc., New York, N. Y. Dresses. 395,076; May 12; Serial No. 446,714; published Feb. 24, 1942. Class 39.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Corn, Hybrid seed. Reid National Corn Company. 395,131; May 12; Serial No. 449,327; published Mar. 3, 1942.

Materials made wholly or in part from synthetic resinoids. Ellison Insulations Limited. 395,064–8; May 12; Serial No. 444,140–4; published Mar. 3, 1942.

Seeds. J. G. Peppard Seed Co. 156,389; renewed June 20, 1942.

Seeds, Garden vegetable. Worthington Seed Co. 395,200; May 12.

CLASS 2

Bags, Garment, laundry, and shoe. Phoenix Closet Accessories, Inc. 395,108; May 12; Serial No. 448,953; published Mar. 3, 1942.

CLASS 4

Chemical solutions, chemically treated towels and containers for same. Standard Oil Company. 395,196; May 12.
Cleaner, Liquid. J. I. Blanck. 395,034; May 12; Serial No. 416,500; published Feb. 4, 1941.
Cleaner, Wallpaper, glass and soap flakes. Kroger Grocery & Baking Company. 395,162; May 12; Serial No. 449,859; published Feb. 24, 1942.
Polish in paste form, Metal. General Chemical Company. 395,161; May 12; Serial No. 449,837; published Mar. 3, 1942.

CLASS 6

Analgesic pharmaceutical products in the form of powders, syrups, pills, etc. De Toledo Frères S. A. Pharmacie Principale. 395,044; May 12; Serial No. 439,015; published Mar. 3, 1942.
Antiseptic and germicidal solution. Langley & Michaels Co. 159,409; renewed Sept. 26, 1942.
Anti-venereal preparations. E. R. Squibb & Sons. 395,170; May 12; Serial No. 449,925; published Feb. 24, 1942.
Air purifying compound. Frigerbar Corporation. 395,130; May 12; Serial No. 449,260; published Feb. 24, 1942.
Bath crystals and oils, water softening preparations, and perfumes. Schratz, Inc. 395,106; May 12; Serial No. 448,874; published Feb. 24, 1942.
Bleach, Household. Federated Foods, Inc. 395,084; May 12; Serial No. 447,802; published Feb. 24, 1942.
Chemical solvent for increasing and improving the efficiency of lubricating oils. Kant Rust Products Corporation. 395,071; May 12; Serial No. 445,737; published Mar. 3, 1942.
Chemicals. Porter Chemical Co. 159,063; renewed Sept. 19, 1942.
Cholagogue evacuant. Marcy Laboratories, Inc. 395,151; May 12; Serial No. 449,649; published Feb. 24, 1942.
Color, cheese color, and rennet extract, Butter. Chr. Hansen's Laboratory, Inc. 154,244; renewed Apr. 11, 1942.
Colors for desserts, candies, ice cream, etc., Food. Chr. Hansen's Laboratories, Inc. 154,243; renewed Apr. 11, 1942.
Conditioning media for yarns, threads, and filaments. American Viscose Corporation. 395,152–3; May 12; Serial Nos. 449,731–2; published Feb. 24, 1942.
Cough and bronchial syrup. Premo Pharmaceutical Laboratories, Inc. 395,112; May 12; Serial No. 449,017; published Feb. 24, 1942.
Dentifrice in the form of a paste, a wash, or a powder. Sanozym, Incorporated. 154,380; renewed Apr. 11, 1942.
Deodorants. B. Arrow. 395,043; May 12; Serial No. 439,009; published Mar. 3, 1942.
Deodorizer and disinfectant. Abbott Laboratories. 395,054; May 12; Serial No. 441,803; published May 20, 1941.
Extender for latex and dispersed rubber. R. T. Vanderbilt Company. 395,133; May 12; Serial No. 449,363; published Mar. 3, 1942.
Face powder. Lady Esther Sales Co. 395,060; May 12; Serial No. 443,510; published July 22, 1941.
Food nutrient having therapeutic properties. H. A. Heinemeyer. 395,089; May 12; Serial No. 448,080; published Mar. 3, 1942.
Hair waving and fixing solutions and shampoos. H. Stein. 395,129; May 12; Serial No. 449,243; published Feb. 24, 1942.
Insecticides. Wm. B. Lingo. 395,104; May 12; Serial No. 448,867; published Mar. 3, 1942.
Liniment. L. Turnipseed Inc. 395,086; May 12; Serial No. 447,962; published Feb. 24, 1942.
Lipstick and dry rouge. Charles of the Ritz, Inc. 395,159; May 12; Serial No. 449,793; published Mar. 3, 1942.
Lipsticks, rouge, cologne, etc. Lehn & Fink Products Corporation. 395,180; May 12; Serial No. 450,106; published Feb. 24, 1942.
Medicinal preparation. Eli Lilly and Company. 395,148; May 12; Serial No. 449,617; published Feb. 24, 1942.
Medicinal preparations comprising vitamins and iron. Dr. D. Jayne & Son, Inc. 395,160; May 12; Serial No. 449,800; published Feb. 24, 1942.
Medicinal preparations for the treatment of disorders of the liver and intestines, etc. Knox Company. 395,088; May 12; Serial No. 448,054; published Mar. 3, 1942.
Medicines for the relief of athletes' foot, eczema, burns, etc. L. L. Adams. 395,041; May 12; Serial No. 437,671; published Mar. 3, 1942.
Oil or fish liver oil, etc., Fish. National Oil Products Company. 395,122; May 12; Serial No. 449,148; published Mar. 3, 1942.
Ointment for rectal irritations. F. J. Riesser. 395,132; May 12; Serial No. 449,329; published Feb. 24, 1942.
Organic amine compound. Charlotte Chemical Laboratories, Inc. 395,097; May 12; Serial No. 448,670; published Feb. 24, 1942.
Perfume. Mary Chess, Inc. 395,182; May 12; Serial No. 450,256; published Feb. 24, 1942.
Perfume and toilet water, face powder and lipstick. S. Henry. 395,171–3; May 12; Serial Nos. 449,939–40-1; published Feb. 24, 1942.
Perfumes, cream rouge, eye shadow, etc. Maison Jeurelle-Seventeen, Inc. 395,099; May 12; Serial No. 448,099; published Mar. 3, 1942.
Perfumes, lipsticks, rouges, toilet waters, etc. Parfums Schiaparelli, Inc. 395,118; May 12; Serial No. 449,060; published Mar. 3, 1942.
Perfumes, lipsticks, rouges, toilet waters, etc. Parfums Schiaparelli, Inc. 395,119–20; May 12; Serial Nos. 449,063–4; published Mar. 3, 1942.
Perfumes, lipsticks, rouges, toilet waters, etc. Parfums Schiaparelle, Inc. 395,137–8; May 12; Serial Nos. 449,386–7; published Mar. 3, 1942.
Perfumes, toilet waters, face powders, etc. Cheramy, Inc. 159,310; renewed Sept. 26, 1942.
Perfumes, toilet water, nail polish, and rouges. Elizabeth Arden Sales Corporation. 395,146; May 12; Serial No. 449,596; published Mar. 3, 1942.
Perfumes, toilet waters, and face lotions. Monenu Corp. of New York. 395,143; May 12; Serial No. 449,528; published Mar. 3, 1942.
Perfumes, toilet waters, and face and talcum powders. Parfums Schiaparelli, Inc. 395,115–16–17; May 12; Serial No. 449,055–7; published Mar. 3, 1942.
Phosphatides. Glidden Company. 395,154; May 12; Serial No. 449,735; published Mar. 3, 1942.
Preparation for the treatment of certain types of syphilis and related injections. Parke, Davis & Company. 395,183; May 12; Serial No. 450,315; published Mar. 3, 1942.
Preparation or product for the purpose of making up any vitamin deficiency in the diet. Lanteen Medical Laboratories, Inc. 395,158; May 12; Serial No. 449,774; published Mar. 3, 1942.
Preparation to help prevent and for use in the treatment of coccidiosis in chicks. M. Radley. 395,105; May 12; Serial No. 448,873; published Feb. 24, 1942.
Preparations for use in hair and scalp treatments. Antiseptol Company. 395,051; May 12; Serial No. 440,615; published Feb. 24, 1942.
Wetting, finishing, dyeing, and bleaching agents in the textile and leather industry. Böhme Fettchemie G. m. b. H. 395,048; May 12; Serial No. 439,855; published Feb. 24, 1942.
Sal soda, chlorite, and water softener. Kroger Grocery & Baking Company. 395,163; May 12; Serial No. 449,860; published Mar. 3, 1942.
Shampooing preparation. Packers Tar Soap, Inc. 395,125–26; May 12; Serial No. 449,210–11; published Feb. 24, 1942.
Shampoos, rinses, and hair oils. Pine Coco Products Incorporated. 395,144; May 12; Serial No. 449,553; published Feb. 24, 1942.
Solvents, Liquid. C. Voehringer. 395,055; May 12; Serial No. 441,891; published May 27, 1941.
Tablet for headaches. E. A. Spare. 395,094; May 12; Serial No. 448,532; published Feb. 24, 1942.
Toilet preparations. E. Evington. 395,038; May 12; Serial No. 435,124; published Mar. 3, 1942.
Vehicle or base for use by pharmacists in compounding prescriptions, Nonalcoholic. United Drug Company. 154,169; renewed Apr. 4, 1942.
Vitamin capsules. Premo Pharmaceutical Laboratories, Inc. 395,179; May 12; Serial No. 450,077; published Mar. 3, 1942.
Vitamin preparations. Abbott Laboratories. 395,164–6; May 12; Serial No. 449,876–8; published Feb. 24, 1942.
Vitamin preparations. Nutrition Research Laboratories. 395,069; May 12; Serial No. 444,766; published Aug. 5, 1941.
Vitamin preparations. Oxford Products, Inc. 395,091; May 12; Serial No. 448,331; published Feb. 24, 1942.
Vitamin preparations. Strong Cobb & Co. 395,095; May 12; Serial No. 448,534; published Feb. 24, 1942.

CLASS 11

Lampblack for use as an ink pigment. L. Martin Company. 395,111; May 12; Serial No. 449,011; published Jan. 20, 1942.
Printing colors—i. e., ink, Textile. J. P. Nissen, Jr. 395,037; May 12; Serial No. 433,982; published Feb. 24, 1942.

CLASS 13

Cocks, Gas Range. Cleveland Co-Operated Stove Company. 395,188; May 12.
Fasteners, Separable slide. Crown Fastener Corporation. 395,063; May 12; Serial No. 444,073; published Sept. 9, 1941.
Tacks. Fleming and Sons, Inc. 395,202; May 12.

CLASS 14

Alloy and castings made therefrom, Nonrusting and corrosion-resisting. Metal and Alloy Specialties Company. 159,436; renewed Sept. 26, 1942.
Castings, Nonferrous metal. Frontier Bronze Corporation. 159,354; renewed Sept. 26, 1942.
Metal, Babbitt. American Vapor, Inc. 395,150; May 12; Serial No. 449,633; published Feb. 24, 1942.

CLASS 16

Oiticica oil, Compound or composition of bodied. Scientific Oil Compounding Co. 395,072; May 12; Serial No. 445,782; published Feb. 24, 1942.

Paints, and varnishes, Ready-mixed. Robert W. Irwin Company. 395,081; May 12; Serial No. 447,514; published Feb. 24, 1942.

CLASS 17

Tobacco and tobacco products. Larus & Brother Company. 395,186; May 12.

CLASS 19

Aircraft, and parts thereof. United Aircraft Corporation. 395,082; May 12; Serial No. 447,526; published Mar. 3, 1942.

CLASS 21

Batteries, Electric storage. B. F. Goodrich Company. 395,157; May 12; Serial No. 449,771; published Mar. 3, 1942.
Batteries or accumulators, their parts and supplies, Electric storage. Electric Storage Battery Company. 395,127; May 12; Serial No. 449,225; published Mar. 3, 1942.
Cable for electrical use, Flexible armored. American Metal Moulding Company. 395,098; May 12; Serial No. 448,716; published Mar. 3, 1942.
Electric dry cells and dry cell batteries. National Carbon Company. 395,109; May 12; Serial No. 448,980; published Mar. 3, 1942.
Electrical space discharge tubes. Raytheon Production Corporation. 395,167–69; May 12; Serial Nos. 449,914–6; published Mar. 3, 1942.
Motors and storage batteries, Electric. Douglas Oil & Refining Co. 395,195; May 12.
Protectors for electric motors and for circuit controlling protectors, etc., Overload and overheat. Micro Switch Corporation. 395,047; May 12; Serial No. 439,354; published Mar. 11, 1941.
Radio transmitters, radio receivers, direction finders, etc. and parts thereof. Radiomarine Corporation of America. 395,198; May 12.
Radio tubes. Sontag Chain Stores Co. 395,032; May 12; Serial No. 392,563; published Sept. 21, 1937.

CLASS 22

Balls, Table tennis. E. Lundberg. 395,178; May 12; Serial No. 450,072; published Mar. 3, 1942.
Cards, Playing. United States Playing Card Company. 158,843; renewed Sept. 12, 1942.
Toy paperboard figures. Barnes, Reinecke & Rebholz. 395,100–1; May 12; Serial Nos. 448,776–7; published Mar. 3, 1942.

CLASS 23

Compressors, motor driven air compressor units, air controlled automobile lifts, etc., and parts thereof. American Brake Shoe and Foundry Company. 395,193; May 12.
Cutlery. National Silver Company. 395,192; May 12.
Device for spraying disinfecting solutions on food-handling equipment. Diversey Corporation. 395,187; May 12.
Disc harrows, rotary hoes, mulchers, etc. Dunham Company. 395,197; May 12.
Drills and reamers, Metal. L. G. Black. 395,123; May 12; Serial No. 449,167; published Mar. 3, 1942.
Elevators and automobile, bus, truck, and freight lifts, non-electric freight and passenger. Rotary Lift Company. 395,070; May 12; Serial No. 445,068; published Feb. 24, 1942.
Milking machines. Walker-Gordon Laboratory Company 395,174; May 12; Serial No. 449,947; published Mar. 3, 1942.
Motor units, Manually supported. Buckeye Portable Tool Co. 395,087; May 12; Serial No. 447,994; published Mar. 3, 1942.
Mufflers for internal combustion engines. Western Auto Supply Company. 395,113; May 12; Serial No. 449,029; published Feb. 24, 1942.
Razors and safety razor blades, Safety. Gillette Safety Razor Company. 395,052; May 12; Serial No. 440,719; published Apr. 22, 1941.
Saws. Pennsylvania Saw Corporation. 395,208; May 12.
Soda fountains, carbonators, and soda-fountain machinery. Langley & Michaels Co. 159,408; renewed Sept. 26, 1942.
Tools and electrically operated hand held chucks, or drivers therefor, Rotary cutting and carving. Casco Products Corporation. 395,062; May 12; Serial No. 443,971; published Feb. 24, 1942.
Tools, Cutlery and edge. W. & S. Butcher Limited. 151,439; renewed Feb. 7, 1942.
Vending and amusement devices. N. Cohn. 395,190; May 12.
Vending machines. A. Dalkin Co. 395,147; May 12; Serial No. 449,601; published Feb. 24, 1942.

CLASS 24

Ironing board covers. Fraser Products Co. 395,056; May 12; Serial No. 442,356; published July 15, 1941.

CLASS 26

Battery charging and testing apparatus, Combination. Mercury Corporation. 395,059; May 12; Serial No. 443,422; published Mar. 3, 1942.
Lenses, Ophthalmic. Bausch & Lomb Optical Co. 159,273; renewed Sept. 26, 1942.
Ophthalmic mountings, lenses, and blanks for such lenses, etc. American Optical Company. 395,156; May 12; Serial No. 449,748; published Mar. 3, 1942.
Reels, Moving picture. Goldberg Brothers. 395,145; May 12; Serial No. 449,574; published Mar. 3, 1942.
Size control devices for determining radial operation of the tool of the honing machine. Micromatic Hone Corporation. 395,053; May 12; Serial No. 441,320; published Mar. 3, 1942.

CLASS 32

Desks and office tables. Hoosier Desk Company. 158,984; renewed Sept. 19, 1942.
Filing cabinets. Steel Storage File Company. 395,033; May 12; Serial No. 412,312; published Mar. 3, 1942.
Furniture, Office. Jasper Desk Company. 155,461; renewed May 30, 1942.
Shade rollers. Interstate Shade Cloth Co. 157,527; renewed Aug. 8, 1942.

CLASS 34

Lamp masks, shades, and filters for blackout purposes. F. K. Richards. 395,155; May 12; Serial No. 449,741; published Mar. 3, 1942.

CLASS 34

Reflectors, shades, and screens for electric lamps. Foster & Davies, Inc. 395,046; May 12; Serial No. 439,197; published Mar. 3, 1942.
Stoves, Solid fuel burning cooking. Aga Stove Company. 395,139; May 12; Serial No. 449,442; published Mar. 3, 1942.

CLASS 35

Gaskets and gasketing tape, Paper and composition. F. D. Farnam. 395,083; May 12; Serial No. 447,528; published Mar. 3, 1942.
Seals, Dust and oil. Ohio Rubber Company. 395,057; May 12; Serial No. 442,966; published Mar. 3, 1942.
Tires. Goodyear Tire & Rubber Company. 395,181; May 12; Serial No. 450,179; published Mar. 3, 1942.
Tires, Automobile. B. Rubens. 395,035; May 12; Serial No. 423,712; published Jan. 16, 1940.

CLASS 37

Cover paper. Marvellum Company. 159,431; renewed Sept. 26, 1942.
Crayons, Wax and chalk. Standard Crayon Manufacturing Co. 159,537–40; renewed Sept. 26, 1942.
Letter heads, envelopes, and combined letter heads and envelopes. B. H. Dyshel. 395,135; May 12; Serial No. 449,368; published Mar. 3, 1942.
Paper, Wrapping. International Paper Company. 395,140; May 12; Serial No. 449,457; published Mar. 3, 1942.
Papers, Bond, linen and ledger. Parsons Paper Company. 395,090; May 12; Serial No. 448,167; published Mar. 3, 1942.

CLASS 38

Books, Printed. Matthew Bender & Company. 158,892; renewed Sept. 19, 1942.

CLASS 39

Blouses, slacks, play suits, Women's and children's. L. Brod. 395,205; May 12.
Clothing for women comprising maternity gowns. Maxwell Cooper & Co. Limited. 395,058; May 12; Serial No. 443,300; published Feb. 24, 1942.
Coats, Ladies' cloth. Sices & Rieger, Incorporated. 395,061; May 12; Serial No. 443,860; published Oct. 21, 1941.
Collars. Cluett, Peabody & Co. 395,207; May 12.
Dresses. Worthy-Miss Dresses, Inc. 395,076; May 12; Serial No. 446,714; published Feb. 24, 1942.
Dresses and dress ensembles. David Crystal, Inc. 395,134; May 12; Serial No. 449,366; published Feb. 17, 1942.
Dresses, and slack suits, and play suits. Markay, Inc. 395,045; May 12; Serial No. 439,112; published Feb. 17, 1942.
Dresses, aprons, and housecoats. Abraham & Straus, Inc. 395,201; May 12.
Dresses, suits, and coats. V. A. Merejko. 395,121; May 12; Serial No. 449,147; published Feb. 17, 1942.
Garments, namely swimming suits. Cole of California, Inc. 395,050; May 12; Serial No. 440,580; published Feb. 17, 1942.
Hose. Sarfert Hosiery Mills, Inc. 395,199; May 12.
Hosiery. W. T. Grant Company. 395,189; May 12.
Hosiery. Merchantville Hosiery Company. 395,184; May 12.
Hosiery. Oakland Toggery. 395,149; May 12; Serial No. 449,625; published Feb. 24, 1942.
Jackets, Women's and misses'. D. R. Foster. 395,036; May 12; Serial No. 430,441; published June 18, 1940.
Knit wear—namely, sweaters. Wilhoites' Inc. 395,096; May 12; Serial No. 448,539; published Mar. 3, 1942.
Sportswear, Ladies' and men's. Consolidated Hat Stores, Ltd. 395,074; May 12; Serial No. 446,314; published Feb. 24, 1942.

Suits and coats, Women's and misses'. Morris W. Haft & Bros., Inc. 395,075; May 12; Serial No. 446,625; published Feb. 24, 1942.
Suits and coats, Men's. Friedman-Marks Clothing Company. 395,203–4; May 12.
Suits, coats, dresses, and slacks. Moordale Casuals, Inc. 395,142; May 12; Serial No. 449,491; published Feb. 17, 1942.
Sweaters. Norman D. Waters & Associates, Inc. 395,079; May 12; Serial No. 447,261; published Feb. 24, 1942.
Sweaters and dresses, Children's. G. J. Hecht. 395,049; May 12; Serial No. 439,932; published Feb. 24, 1942.
Sweaters, dresses, suits, coats, etc., Children's. G. J. Hecht. 395,078; May 12; Serial No. 447,236; published Feb. 24, 1942.
Sweaters, Ladies'. Hecht & Biern. 395,128; May 12; Serial No. 449,232; published Feb. 17, 1942.
Underwear and hosiery, Children's. Abraham & Straus, Inc. 395,185; May 12.

CLASS 40

Hooks and eyes. Jordan Marsh Company. 157,695; renewed Aug. 15, 1942.

CLASS 42

Cotton piece goods. Cohn-Hall-Marx Co. 158,640; renewed Sept. 12, 1942.
Fabrics in the piece, Woven, knitted, netted, etc. Cheney Brothers. 156,204–5; renewed June 20, 1942.
Silk and silk and cotton fabrics in the piece. William Skinner & Sons. 154,388; renewed Apr. 11, 1942.
Silks in the piece. William Skinner & Sons. 156,421; renewed June 20, 1942.

CLASS 43

Yarns. Fleisher Yarns, Inc. 395,136; May 12; Serial No. 449,370; published Mar. 3, 1942.
Yarns, Asbestos. United States Rubber Company. 395,141; May 12; Serial No. 449,471; published Feb. 17, 1942.

CLASS 45

Beverages, Non alcoholic. Barricini Inc. 395,103; May 12; Serial No. 448,846; published Mar. 3, 1942.
Root beer. Drink-Mor Beverage Company. 395,039; May 12; Serial No. 436,710; published Dec. 31, 1940.
Root beer and syrup used in making root beer. Richardson Corporation. 395,080; May 12; Serial No. 447,491; published Mar. 3, 1942.

CLASS 46

Applesauce, Partly prepared. Red-ee Foods, Inc. 395,085; May 12; Serial No. 447,822; Mar. 3, 1942.
Bread. Ward Baking Company. 159,576; renewed Sept. 26, 1942.
Buttermilk tablets. Chr. Hansen's Laboratory, Inc. 154,513; renewed Apr. 18, 1942.
Canned and bottled potato salad, rice with mushrooms, macaroni salad, etc. Claridge Food Corp. 395,194; May 12.
Canned pineapple. Arthur Serra and Co. 395,093; May 12; Serial No. 448,531; published Mar. 3, 1942.
Canned shrimp. Dorgan Packing Corp. 395,114; May 12; Serial No. 449,041; published Mar. 3, 1942.
Canned vegetables; fruits; fruits and vegetable juices; etc. R. C. Williams Company. 395,040; May 12; Serial No. 437,427; published Mar. 3, 1942.
Cheese. Tormey, Bello & Cia. Sociedad de Responsabilidad Limitada. 395,175; May 12; Serial No. 440,971; published Mar. 3, 1942.
Chocolate bars. Rueckheim Bros. & Exkstein. 158,290; renewed Aug. 29, 1942.
Coffee. J. A. Folger & Company. 395,209; May 12.
Currants, Dried. Rosenberg Bros. & Co. 395,191; May 12.
Food for human consumption, containing rice, bran, wheat, oat flour, etc., Special purpose. Pan-American Distributing Co. 395,176; May 12; Serial No. 450,020; published Mar. 3, 1942.
Food products and aquarium products—namely, fish food, Pet. Paramount Aquarium, Inc. 395,092; May 12; Serial No. 448,456; published Mar. 3, 1942.
Fruits, Fresh citrus. Nevins Fruit Co. 395,077; May 12; Serial No. 446,888; published Mar. 3, 1942.
Ice-cream, Ices, pastries. Barricine Inc. 395,102; May 12; Serial No. 448,845; published Mar. 3, 1942.
Icing. Ph. Orth Co. 395,110; May 12; Serial No. 448,983; published Mar. 3, 1942.
Marmalade, plum pudding dairy products, etc. John Morrell & Co. 159,445; renewed Sept. 26, 1942.
Potato chips, popped and seasoned popcorn, and caramel coated popped popcorn. Special Foods Co. 395,206; May 12.
Poultry. J. H. Scofield. 395,124; May 12; Serial No. 449,193; published Mar. 3, 1942.
Vegetables, Fresh. R. E. Myers. 395,177; May 12; Serial No. 450,058; published Mar. 3, 1942.

CLASS 47

Champagnes and wine. Gold Seal Products Company. 157,962; renewed Aug. 22, 1942.

CLASS 48

Beer. William Gerst Brewing Co. 395,107; May 12; Serial No. 448,904; published Mar. 3, 1942.
Beer and ale. Duquesne Brewing Company of Pittsburgh. 395,042; May 12; Serial No. 438,978; published Feb. 11, 1941.

CLASS 50

Canvas beach shelters and canvas windbreaks. Beachette Co. 395,073; May 12; Serial No. 446,287; published Nov. 25, 1941.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 12TH DAY OF MAY, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Anderson, Alvin P., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Translucent petroleum plastic. Re. 22,093; May 12.
Bailey Meter Company. (See Dueringer, Walter E., assignor.)
Christensen, Norman V., assignor to Union Special Machine Company, Chicago, Ill. Sewing machine. Re. 22,094; May 12.
Dueringer, Walter E., Shaker Heights, Ohio, assignor to Bailey Meter Company. Indicating and positioning system. Re. 22,095; May 12.
Monroe, Charles S., Chicago, Ill. Oscillating lamp. Re. 22,096; May 12.
Shell Development Company. (See Anderson, Alvin P., assignor.)
Universal Oil Products Company. (See Wells, Bryan D., assignor.)
Union Special Machine Company. (See Christensen, Norman V., assignor.)
Wells, Bryan D., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of catalysts. Re. 22,097; May 12.

LIST OF PLANT PATENTEES

Byrum, Roy L., assignor to J. H. Hill Company, Richmond, Ind. Rose plant. 515; May 12.
Hill, Joseph H., Company. (See Byrum, Roy L., assignor.)

LIST OF DESIGN PATENTEES

Air-Tred Shoes, Inc. (See Boothby, Richard P., assignor.)
Angert, Richard W. (See Stoner, H. B., and Angert.)
Bendix Aviation Corporation. (See Daalder, Richard, assignor.)
Berger, Milton, Dumont, N. J. Dress ensemble. 132,382; May 12.
Bernstein, Edward H., Melrose Park, assignor to L. P. Weil, Philadelphia, Pa. Combined pot scraper, dish cloth, and soap unit. 132,343; May 12.
Bonagura, Pauline, New York, N. Y. Dress. 132,384; May 12.
Boothby, Richard P., assignor to Air-Tred Shoes, Inc., Auburn, Maine. Shoe. 132,351; May 12.
Burn, Walter P., and H. Jurkops, Washington, D. C., assignors to United States of America, as represented by James M. Landis, United States Director of Civilian Defense, Office of Civilian Defense, and his successors in office. Appliqué emblem or similar article. 132,352; May 12.
Burn, Walter P. and H. Jurkops, Washington, D. C., assignors to United States of America, as represented by James M. Landis, United States Director of Civilian Defense, Office of Civilian Defense, and his successors in office. Appliqué emblem or similar article. 132,353; May 12.
Burn, Walter P. and H. Jurkops, Washington, D. C., assignors to United States of America, as represented by James M. Landis, United States Director of Civilian Defense, Office of Civilian Defense, and his successors in office. Appliqué emblem or similar article. 132,354; May 12.
Cann, Milton M., Brooklyn, N. Y. Textile fabric or similar article. 132,417; May 12.
Carroll, Anna L. S., New York, N. Y. Dress. 132,385; May 12.
Carroll, Anna L. S., New York, N. Y. Dress. 132,386; May 12.
Carroll, Anna L. S., New York, N. Y. Dress. 132,387; May 12.
Carroll, Anna L. S., New York, N. Y. Dress. 132,388; May 12.
Carroll, Anna L. S., New York, N. Y. Dress. 132,389; May 12.
Carroll, Anna L. S., New York, N. Y. Dress. 132,390; May 12.
Carroll, Anna L. S., New York, N. Y. Dress. 132,391; May 12.
Carroll, Anna L. S., New York, N. Y. Dress. 132,392; May 12.
Carroll, Anna L. S., New York, N. Y. Dress. 132,393; May 12.
Carroll, Anna L. S., New York, N. Y. Dress. 132,394; May 12.
Carroll, Anna L. S., New York, N. Y. Dress. 132,395; May 12.
Carroll, Anna L. S., New York, N. Y. Dress. 132,396; May 12.
Cashin, Bonnie, New York, N. Y. Dress. 132,397; May 12.
Cashin, Bonnie, New York, N. Y. Dress. 132,398; May 12.
Cashin, Bonnie, New York, N. Y. Dress. 132,399; May 12.
Cashin, Bonnie, New York, N. Y. Dress. 132,400; May 12.
Cogswell, Margaret D., Arlington, Mass. Badge or similar article. 132,355; May 12.
Cohn, Irwin E., Leominster, Mass. Rattle. 132,342; May 12.
Coleman, Vance J., Cedar Rapids, Iowa. Combined conveyer and mixer for stock feeds, flours, and the like. 132,373; May 12.
Conant, Arthur P., Fort Thomas, assignor to Lentheric Incorporated, New York, N. Y. Vanity case. 132,366; May 12.
Daalder, Richard, East Paterson, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Ammunition rounds counter. 132,374; May 12.
Elkus, Richard J., San Francisco, Calif. Trailer. 132,375; May 12.
Eriksen, Halvdan J., Ottawa, Ontario, Canada. Electric plate heater. 132,356; May 12.
Fellman, Max, New York, N. Y. Picture-carrying brooch or the like. 132,357; May 12.
Froelich, George E., assignor to Hamilton Manufacturing Company, Two Rivers, Wis. Stirrup for physician's examining table. 132,358; May 12.
Fuerst, Edwin W., and C. W. Sawyer, assignors to Libbey Glass Company, Toledo, Ohio. Vase. 132,359; May 12.
Gardner, Julius J., New York, N. Y. Card rack or similar article. 132,360; May 12.
Giovagnoni, Violet, New York, N. Y. Hostess robe. 132,401; May 12.
Goetsch, William V., Naperville, Ill. Hand truck. 132,379; May 12.
Gregory, George E., Providence, R. I., assignor to Oneida Ltd., Oneida, N. Y. Dish or similar article. 132,344; May 12.
Hadden, Gavin, New York, N. Y. Grandstand. 132,361; May 12.
Hamilton Manufacturing Company. (See Froelich, George E., assignor.)
Hat Corporation of America. (See Stack, A. J., and Moran, assignors.)
Hewitt Soap Company, Inc., The. (See Stoner, H. B., and Angert, assignors.)
Houdaille-Hershey Corporation. (See Walker, George W., assignor.)
Imamura, Hiroshi, Salinas, Calif. Comb. 132,367; May 12.
Jack & Heintz, Inc. (See Tabb, W. E., and Paul, assignors.)
James, Earl M., Maplewood, Mo. Ice cream cone. 132,402; May 12.
Jezek, Henry J., Rosebud, and L. F. Jezek, Temple, Tex. Dual tire. 132,345; May 12.
Jezek, Louis F. (See Jezek, Henry J., assignor.)
Jorgensen, Clarence W., Chicago, Ill. Combined flowerpot and support. 132,368; May 12.
Jurkops, Helen. (See Burn, W. P., and Jurkops.)
Kaperst, Philip, New York, N. Y. Dress. 132,403; May 12.

Landau, Sam, New York, N. Y. Slip. 132,369; May 12.
Lawrence, John R., assignor to The Washburn Company, Worcester, Mass. Pitcher. 132,346; May 12.
Laylon, Harry L., assignor to Samson United Corporation, Rochester, N. Y. Combined fan motor housing and support therefor. 132,370; May 12.
Lentheric Incorporated. (See Conant, Arthur P., assignor.)
Lentheric Incorporated. (See McIntosh, Frank, assignor.)
Libbey Glass Company. (See Fuerst, E. W., and Sawyer, assignors.)
Lish, Samuel, Woodmere, N. Y. Lady's hat. 132,371; May 12.
Margone, Benjamin, Bronx, and H. Shweder, Brooklyn, N. Y. Pin or similar article. 132,404; May 12.
McCoy, Marion, St. Louis, Mo. Dress. 132,405; May 12.
McCoy, Marion, St. Louis, Mo. Dress. 132,406; May 12.
McCoy, Marion, St. Louis, Mo. Dress. 132,407; May 12.
McCoy, Marion, St. Louis, Mo. Dress. 132,408; May 12.
McCoy, Marion, St. Louis, Mo. Dress. 132,409; May 12.
McCoy, Marion, St. Louis, Mo. Dress. 132,410; May 12.
McIntosh, Frank, assignor to Lentheric Incorporated, New York, N. Y. Box. 132,362; May 12.
Moran, Alys C. (See Stack, A. J., and Moran.)
Munk, Max M., Cottage City, Md. Aircraft propeller. 132,376; May 12.
Nachumsohn, Irving, Chicago, Ill. Washing machine. 132,363; May 12.
Nordquist, Robert C., assignor to Patent License Corporation, Chicago, Ill. Illuminated mirror cabinet. 132,378; May 12.
Oneida Ltd. (See Gregory, George E., assignor.)
Page, George A., La Grange, assignor to United Air Lines Transport Corporation, Chicago, Ill. Antenna housing. 132,380; May 12.
Patent License Corporation. (See Nordquist, Robert C., assignor.)
Paul, William. (See Tabb, W. E., and Paul.)
Payne, Ruth, New York, N. Y. Dress. 132,411; May 12.
Powell, Frank, Miami, Fla. Figurine or similar article. 132,364; May 12.
Reedy, Robert E., North Hollywood, Calif., assignor, by mesne assignments, to Vega Aircraft Corporation. Target airplane or similar article. 132,383; May 12.
Reilly, William J., North Attleboro, Mass. Handbag or the like. 132,418; May 12.
Salow, Henry, New York, N. Y. Dress ensemble. 132,347; May 12.
Saltman, David J., Los Angeles, Calif. End piece for a sofa or the like. 132,348; May 12.
Samson United Corporation. (See Laylon, Harry L., assignor.)
Sawyer, Charles W. (See Fuerst, E. W., and Sawyer, assignors.)
Shweder, Herman. (See Margone, Benjamin.)
Smallman, Morris, New York, N. Y. Billfold. 132,372; May 12.
Smith, Walton H., Kansas City, Mo. Swimming device. 132,377; May 12.
Sniderman, Jacob, Toronto, Ontario, Canada. Jacket or similar article. 132,349; May 12.
Stack, Arthur J., Westport, Conn., and A. C. Moran, New York, N. Y., assignors to Hat Corporation of America, Norwalk, Conn. Hat. 132,412; May 12.
Stoner, Harold B., Dayton, Ohio, and R. W. Angert, Camp Hulen, Tex., assignors to The Hewitt Soap Company, Inc., Dayton, Ohio. Bar of soap. 132,350; May 12.
Strauss, Paula, New York, N. Y. Brooch or similar article. 132,413; May 12.
Tabb, Wilfred E., Cleveland Heights, and W. Paul, South Euclid, assignors to Jack & Heitz, Inc., Bedford, Ohio. Wire twisting device. 132,381; May 12.
United Air Lines Transport Corporation. (See Page, George A., assignor.)
United States Director of Civilian Defense. (See Burn, W. P., and Jurkops.)
Vega Aircraft Corporation. (See Reedy, Robert E., assignor.)
Walker, George W., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Automobile bumper or similar article. 132,365; May 12.
Washburn Company, The. (See Lawrence, John R., assignor.)
Weil, Lewis P. (See Bernstein, Edward H., assignor.)
Zahn, Samuel, New York, N. Y. Dress. 132,414; May 12.
Zahn, Samuel, New York, N. Y. Dress. 132,415; May 12.
Zahn, Samuel, New York, N. Y. Dress. 132,416; May 12.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 12TH DAY OF MAY, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abadie, Jean B. J. M., Puteaux, France. Luminous torus. 2,282,693; May 12.
Abell, Harold Q., Stockdale, Kans. Golf bag. 2,282,842; May 12.
Abercrombie, J. S. (See King, Walter E., assignor.)
Adams, Lytle S., Irwin, Pa., assignor to All American Aviation, Inc. Catapult. 2,282,315; May 12.
Adams, Lytle S., Irwin, Pa., assignor to All American Aviation, Inc. Airplane pickup and delivery apparatus. 2,282,920; May 12.
Adams, Lytle S., Irwin, Pa., assignor to All American Aviation, Inc. Aircraft pickup and delivery apparatus. 2,282,921; May 12.
Adams, Myron D. (See Pierson, O. E., Adams, and Edgar, Jr.)
Adams, Pierrepont. (See Swain, R. C., and Adams.)
Adler, Solomon, Kew Gardens, N. Y. Correlating device. 2,282,843; May 12.
Ahlberg, Jacob E., and C. L. Thomas, assignors to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons. 2,282,922; May 12.
Air Reduction Company. (See Anderson, James L., assignor.)
Air Reduction Company. (See Crowe, John J., assignor.)
Aktiebolaget-Bolinder-Munktell. (See Wallgren, August G. F., assignor.)
Aktiengesellschaft Brown, Boveri & Cie. (See Noack, Walter G., assignor.)
Albert, Samuel, Philadelphia, Pa. Electrode holder and cable unit. 2,282,316; May 12.
Alderman, Harold B., and R. R. Wiley, Buffalo, and W. K. Wiley, Tonawanda, assignors to R. & W. Wiley, Inc., Buffalo, N. Y. Lighting fixture. 2,282,445; May 12.
All American Aviation, Inc. (See Adams, Lytle S., assignor.)
Allen, Robert C., Wauwatosa, and C. F. Kenney, West Allis, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Vehicle control system. 2,283,133; May 12.
Allis-Chalmers Manufacturing Company. (See Allen, R. C., and Kenney, assignors.)
Allis-Chalmers Manufacturing Company. (See Bohn, Donald I., assignor.)
Allis-Chalmers Manufacturing Company. (See Hagemann, John R., assignor.)
Allis-Chalmers Manufacturing Company. (See Johnston, George F., assignor.)
Allis-Chalmers Manufacturing Company. (See Michel, Mathias, assignor.)
Allis-Chalmers Manufacturing Company. (See Ray, James L., assignor.)
Allis-Chalmers Manufacturing Company. (See Rheingans, William J., assignor.)
Allis-Chalmers Manufacturing Company. (See Ring, Joseph J., assignor.)
Allis-Chalmers Manufacturing Company. (See Roubal, Alexander J., assignor.)
Allis-Chalmers Manufacturing Company. (See Shaw, M. C., and Kollberg, assignors.)
Allison, Robert C., assignor to Alexander Smith & Sons Carpet Company, Yonkers, N. Y. Floor covering. 2,283,027; May 12.
Amalgamated Wireless (Australasia) Limited. (See Lindsay, Donald G., assignor.)
Ambruster, Cornelius, Roslyn, assignor to The Electric Storage Battery Company, Philadelphia, Pa. Temperature control of storage batteries. 2,282,923; May 12.
Amendola, James V., Kenosha, Wis. Suspensory buckle. 2,282,635; May 12.
American Brake Company, The. (See Mueller, Emil G., assignor.)
American Brass Company, The. (See Bradley, John C., assignor.)
American Can Company. (See Biggs, Llewellyn, assignor.)
American Can Company. (See Murch, John H., assignor.)
American Cast Iron Pipe Company. (See Moore, William D., assignor.)
American Coach & Body Company, The. (See Larsen, N. P., and Troche, assignors.)
American Cyanamid and Chemical Corporation (See Jewett, Joseph E., assignor.)
American Cyanamid Company. (See Swain, R. C., and Adams, assignors.)
American Floor Surfacing Machine Company. (See Kneisley, Richard F., assignor.)
American Lurgi Corporation. (See Göhre, Kurt R., assignor.)
American Machine & Foundry Company. (See Newman, M. M., and Opper, assignors.)
American Paper Bottle Company, The. (See Snader, I. J., and Earp, Jr., assignors.)
American Rolling Mill Company, The. (See Ryan, August W., assignor.)
American Safety Razor Corporation. (See Dalkowitz, Godfrey, assignor.)
American Sandpaper Company. (See Fenton, John P., assignor.)
American Steel and Wire Company, The. (See Burke, John J., assignor.)
American Steel Foundries. (See Whitney, Loren L., assignor.)
American Transformer Company. (See Brettell, George A., Jr., assignor.)
American Viscose Corporation. (See McDermott, Henry J., assignor.)
American Window Glass Company. (See Finnegan, Patrick, assignor.)
Ames, Butler, Boston, Mass. Movable support. 2,282,689; May 12.
Anchor Cap & Closure Corporation. (See Gibbs, John C., assignor.)
Andale Company. (See Jenkins, James M., assignor.)
Anderson, James L., Closter, assignor to Air Reduction Company, Incorporated, New York, N. Y. Method for butt-welding pipes and tubing. 2,282,508; May 12.
Anderson, Philip P., Jr. (See Thomas, A. R., and Anderson.)
Anemostat Corporation of America. (See Kurth, Franz J., assignor.)
Anglo California National Bank of San Francisco. (See Schichtel, G., and Jaburek, assignors.)
Animal Trap Company of America. (See Lehn, J. U., and Zahm, assignors.)
Anthony Company. (See Wachter, Lester W., assignor.)
Apex Electrical Manufacturing Company, The. (See Te Pas, E. J., Bottinelli and McCabe, assignors.)
Archer, Merton T., Toledo, Ohio., assignor to The National Supply Company, Pittsburgh, Pa. Well drilling plant. 2,282,597; May 12.
Arden Farms Co. (See Lewis, James A., assignor.)
Argo, Lisle T., Los Angeles, Calif., assignor to Kay-Brunner Steel Products Inc. Bulldozer. 2,282,389; May 12.
Armstrong, Gilbert. (See Lean, O. B., and Armstrong.)
Arndt, Franklin E., Galion, Ohio., assignor to The Galion Iron Works & Manufacturing Company. Road grader. 2,282,752; May 12.
Arndt, Franklin E., Galion, Ohio, assignor to The Galion Iron Works & Manufacturing Company. Road grader. 2,282,753; May 12.
Artzt, Maurice, Haddonfield, N. J., assignor to Radio Corporation of America. Paper feed device. 2,282,924; May 12.
Arutunoff, Armais, assignor to Reda Pump Company, Bartlesville, Okla. Electric cable for deep well pumps. 2,283,117; May 12.
Arutunoff, Armais, assignor to Reda Pump Company, Bartlesville, Okla. Deep well pump assembly. 2,283,118; May 12.
Ashley, Cecil W., El Centro, Calif. Tank gauge. 2,282,690; May 12.
Ashley, Cecil W., El Centro, Calif. Tank gauge. 2,282,691; May 12.
Ashmusen, Christian, assignor of one-half to C. and W. Dowling, Kings Park, L. I., N. Y. Measuring tape. 2,282,509; May 12.
Ashworth, Harry E., Wilkinsburg, assignor to Union Switch & Signal Company, Swissvale, Pa. Flasher relay. 2,282,446; May 12.
Associated Electric Laboratories, Inc. (See Crocker, Thomas F., assignor.)
Associated Electric Laboratories, Inc. (See Herrick, Roswell H., assignor.)
Associated Patentees, Inc. (See Koch, Frederick, assignor.)
Associated Telephone & Telegraph Company. (See Stehlik, Rudolph F., assignor.)
Association of American Soap & Glycerine Producers, Inc. (See Du Puis, Robert N., assignor.)
Athon, Walter C., Cody, and E. E. Phillips, Greybull, Wyo. Cutting device. 2,282,692; May 12.
Atlas Steel Barrel Corporation. (See Proctor, John R., assignor.)
Austria, Guillermo, Los Angeles, Calif. Tire. 2,282,598; May 12.
Automatic Linker, Inc. (See Demarest, D. D., Berendt, and Karius, assignors.)

Automotive Devices Company. (See Jarrett, George T., assignor.)
Ayers, Edgar H., Schenectady, N. Y., assignor to General Electric Company. Control device. 2,282,844; May 12.
B & H Manufacturing Company. (See Banowetz, Michael W., assignor.)
Badovinac, Peter, Cleveland, Ohio. Pocket umbrella. 2,282,695; May 12.
Bahr, Gustave F., Fairfield, assignor to Casco Products Corporation, Bridgeport, Conn. Shaving machine. 2,282,539; May 12.
Bailey, Warren G., Evanston, assignor to O-Cedar Corp., Chicago, Ill. Vaporizing apparatus. 2,283,028; May 12.
Baisch, Carl F., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Master cylinder. 2,282,390; May 12.
Bakelite Corporation. (See Johnston, Robert T.)
Bakewell, Sidney, Detroit, Mich. Potato cutting device. 2,283,029; May 12.
Bakewell, Sidney, Detroit, Mich. Vegetable slicer. 2,283,030; May 12.
Baldwin, H. J., & Company. (See Byers, Edward V., assignor.)
Baldwin Rubber Company. (See Richardson, Paul C., assignor.)
Ball, Charles F., Wauwatosa, assignor to Chain Belt Company, Milwaukee, Wis. Water supply system for concrete mixers. 2,282,694; May 12.
Banowetz, Michael W., assignor to B & H Manufacturing Company, Inc., New Orleans, La. Nongasket flange. 2,282,552; May 12.
Banowetz, Michael W., assignor to B & H Manufacturing Company, Inc., New Orleans, La. Gate valve. 2,282,553; May 12.
Bany, Herman, Lansdowne, Pa., assignor to General Electric Company. Control system. 2,282,845; May 12.
Barber, Alfred W., Flushing, N. Y., assignor to Radio Corporation of America. Electrical circuits. 2,282,696; May 12.
Barbot, Noël C., and P. A., Hyattsville, Md. Game apparatus. 2,282,846; May 12.
Barbot, Paul A. (See Barbot, N. C. and P. A.)
Barlin, Herbert F., Hamden, Conn., assignor to General Electric Company. Washing machine. 2,282,847; May 12.
Barker, William T., Jr., West Hartford, assignor to Hartford-Empire Co., Hartford, Conn. Apparatus for and method of regulably controlling the temperature of molten glass in forehearths. 2,282,554; May 12.
Barnard, Edward R., assignor to Standard Oil Company, Chicago, Ill. Diesel engine lubrication. 2,282,599; May 12.
Barnhart, George E., Pasadena, Calif. Thermal energy indicating apparatus. 2,282,447; May 12.
Barnitz, Richard W., Parkersburg, W. Va., assignor to Porcelain Products, Inc., Findlay, Ohio. Indicating cutout. 2,283,031; May 12.
Barr, Alan D. (See Sarver, Emmett E., assignor.)
Barrett, Richard C., Bristol, Conn., assignor of one-half to R. W. Barrett, Cambridge, Mass. Glass cutter. 2,283,134; May 12.
Barrett, Robert W. (See Barrett, Richard C., assignor.)
Barringer, Elmer D., Cleveland Heights, Ohio. Weatherstrip installer's gauge. 2,282,925; May 12.
Bassick Company, The. (See Herold, Walter F., assignor.)
Bates, Alfred, Elyria, Ohio. Safety carton opener. 2,282,697; May 12.
Bates, Franklin S., Redding, Conn., assignor to Interchemical Corporation, New York, N. Y. Apparatus for baking enamel. 2,282,926; May 12.
Batsel, Cecil N., North Hollywood, Calif., assignor to Radio Corporation of America. Sound film system. 2,282,927; May 12.
Battelle Memorial Institute. (See Faust, Charles L., assignor.)
Bauer, Rudolf, Cologne-Deutz, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Water-soluble condensation products. 2,282,928; May 12.
Bausch & Lomb Optical Company. (See Bouchard, Samuel E., assignor.)
Bausch & Lomb Optical Company. (See Rayton, Wilbur B., assignor.)
Bausch & Lomb Optical Company. (See Wittig, Carl H. O., assignor.)
Baxter, Gustave S. and T. C., Detroit, Mich., assignors to The Edward Katzinger Company, Chicago, Ill. Bread loaf baking and apparatus therefor. 2,283,032; May 12.
Baxter, Thom C. (See Baxter, Gustave C. and T. C.)
Beach, Edward J., assignor to Beach-Russ Company, Brooklyn, N. Y. Rotary vacuum pump. 2,283,033; May 12.
Beach-Russ Company. (See Beach, Edward J., assignor.)
Beasley, Edith B., executrix. (See Dickey, Robert B.)
Beatty, James M., Brooklyn, N. Y. Toy ring game. 2,282,555; May 12.
Beck, Hans, Ludwigshafen-on-Rhine, and W. Kuehne, Mannheim, Germany, assignors, by mesne assignments, to E. I. du Pont de Nemours and Company, Wilmington, Del. Printing plate and component for making the same. 2,282,448; May 12.
Beger, Charles R., Jr., Moriah, N. Y. Magnetic ore separator. 2,282,510; May 12.
Bell Aircraft Corporation. (See Herget, Marvin C., assignor.)
Bell, Philias, deceased, late of Montreal, Quebec, Canada, by M. Touchette, Montreal, administratrix, Quebec, Canada, assignor to J. A. Laporte, Montreal, Quebec, Canada. Electric meter. 2,283,034; May 12.
Bell Telephone Laboratories, Incorporated. (See Bieling, Carl A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Bruce, Edmond, assignor.)
Bell Telephone Laboratories, Incorporated. (See Corso, Frank B., assignor.)
Bell Telephone Laboratories, Incorporated. (See Dearborn, E. F., and Pearson, assignors.)
Belle Telephone Laboratories, Incorporated. (See Edwards, P. G., and Taylor, assignors.)
Bell Telephone Laboratories, Incorporated. (See Edwards, Paul G., assignor.)
Bell Telephone Laboratories, Incorporated. (See Engelhardt, George B., assignor.)
Bell Telephone Laboratories, Incorporated. (See Gannett, Danforth K., assignor.)
Bell Telephone Laboratories, Incorporated. (See Humphrey, Robert G., assignor.)
Bell Telephone Laboratories, Inc. (See Mason, Warren P., assignor.)
Bell Telephone Laboratories, Incorporated. (See Polkinghorn, Frank A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Shann, Oscar A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Staples, Elliot M., assignor.)
Bell Telephone Laboratories, Incorporated. (See Taylor, Edmund R., assignor.)
Belmont Radio Corporation. (See Dunn, William L., assignor.)
Bendix Aviation Corporation. (See Joseph, Francis M., assignor.)
Bendix Aviation Corporation. (See Stuart, Alfred A., Jr., assignor.)
Bennett, Alfred E., Trenton, N. J., assignor to Crane Co., Chicago, Ill. Rim punching device. 2,282,636; May 12.
Bennett, Charles E., Ridgewood, assignor to The Okonite Company, Passaic, N. J. Method of and apparatus for the electrostatic curing of heat curable materials, while under pressure. 2,282,317; May 12.
Bennett, Edwin O., assignor to Continental Oil Company, Ponca City, Okla. Automatic shutoff valve. 2,282,987; May 12.
Berendt, Carl. (See Demarest, D. D., Berendt, and Karins.)
Berger Brothers Company, The. (See Versoy, Irving R., assignor.)
Bernard, David G., assignor to The Goss Printing Press Company, Chicago, Ill. Magazine reel. 2,282,391; May 12.
Bernstein, Philip, Brooklyn, N. Y., assignor to Press Wireless, Inc., Chicago, Ill. Direction and position finder. 2,282,541; May 12.
Bert, Samuel D., assignor of one-third to M. A. Yorkin and one-third to J. D. Martin, Washington, Pa. Glass forming machine. 2,282,449; May 12.
Berthold, Walter K., Rockville, assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for blowing and cooling glassware. 2,282,845; May 12.
Beyer, Haim, Plainfield, assignor to Cornell-Dubilier Electric Corporation, South Plainfield, N. J. Electric fuse. 2,282,849; May 12.
Bickert, Friedrich-Wilhelm, Maribor-on-the-Lahn, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Stable dry preparations for diagnostic purposes of a biological antigen extract and a substance capable of forming a blood isotonic solution. 2,282,754; May 12.
Bieling, Carl A., Westfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,282,392; May 12.
Biemer, Heinrich, London, England. Lock. 2,282,698; May 12.
Biggs, Llewellyn, Leonia, N. J., assignor to American Can Company, New York, N. Y. Fiber can treating machine. 2,282,318; May 12.
Billstein, Arthur E. F., Altoona, assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Rail marking device. 2,282,929; May 12.
Black, James J., Cincinnati, Ohio, assignor, by mesne assignments, to The Fifth Third Union Trust Company of Cincinnati, Ohio. Tractor trailer combination. 2,282,414; May 12.
Black, Theodore R., Tippecanoe City, assignor to The Master Electric Company, Dayton, Ohio. Power transmission unit. 2,282,699; May 12.
Blackhawk Mfg. Co. (See Pfauser, Edward M., assignor.)
Blanc, Samuel O., Des Moines, Iowa. Machine for cleaning large drain tile and the like. 2,282,600; May 12.

Blau, Henry H., Corning, N. Y., and W. H. Gillett, Lock Number 4, Pa., assignor to Corning Glass Works, Corning, N. Y. Yellow glass composition. 2,282,601; May 12.
Bloch, Felix. (See Lurk, H. J., and Bloch.)
Block, Walter W., Kenosha, Wis. Curtain stretcher. 2,282,393; May 12.
Bludow, Pierre, Lyon, assignor to Societe "Rhodiaceta", Paris, France. Manufacture of 1,4,5,8-tetra-aminoanthraquinone. 2,283,035; May 12.
Bobbrof, James D., Portland, Oreg. Toothbrush. 2,282,700; May 12.
Bock, Louis H., and H. A. Bruson, assignors to Röhm & Hass Company, Philadelphia, Pa. Process of waterproofing. 2,282,701; May 12.
Bock, Louis H., Glenside, assignor to Röhm & Hass Company, Philadelphia, Pa. Dimethylene quaternary ammonium salts. 2,282,702; May 12.
Bohn, Donald I., Pittsburgh, Pa., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Reel control. 2,283,036; May 12.
Bojar, Leo. (See Corbi, A., and Bojar.)
Bolton, John W., & Sons, Inc. (See Schueler, Fred C., assignor.)
Bonanno, Joseph L., Maplewood, N. J., assignor to The Lionel Corporation, New York, N. Y. Adjustable transformer coil. 2,283,037; May 12.
Bondurant, Carlton W., Euclid, and E. G. Steffen, Cleveland Heights, assignors to The Titan Valve and Manufacturing Company, Cleveland, Ohio. Combined thermostatic valve mechanism. 2,282,755; May 12.
Borg-Warner Corporation. (See Hubacker, Earl F., assignor.)
Borg-Warner Corporation. (See Ingersoll, Roy C., assignor.)
Borg-Warner Corporation. (See Orr, Palmer, assignor.)
Bossard, Werner. (See Krebser, A., and Bossard.)
Bottinelli, Lelio A. (See Te Pas, E. J., Bottinelli, and McCabe.)
Bouchard, Samuel E., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 2,282,637; May 12.
Bowen, Herbert C., assignor to Hydraulic Brake Company, Detroit, Mich. Motor. 2,282,556; May 12.
Boyer, Robert, Paris, M. Marin, Neuilly-sur-Seine, and M. Gaestel, Arcueil, assignors to Société "Goodrich", Bois-Colombes (Seine), France. Elastic wheel. 2,282,638; May 12.
Boysen, Johannes, Dusseldorf, and E. Horn, Berlin-Friedenau, assignor to Fides Gesellschaft für die Verwaltung und Verwertung von gewerblichen Schutzrechten mit beschrankter Haftung, Berlin, Germany. Switching mechanism and circuit therefor. 2,282,930; May 12.
Bradley, John C., Waterbury, Conn., assignor to The American Brass Company. Coating cuprous surfaces with tin. 2,282,511; May 12.
Breitenstein, Charles T., assignor to Raymond T. Moloney, Chicago, Ill. Electric shaver. 2,283,038; May 12.
Bremiller, Charles T., Utica, N. Y. Reel control. 2,283,039; May 12.
Brettell, George A., Jr., assignor to American Transformer Company, Newark, N. J. Brush rigging for electrical apparatus. 2,282,450; May 12.
Brinkmann, Friedrich, and H. Zodtner, Berlin, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Electric plugging device. 2,283,040; May 12.
Broadway, Leonard F., Ickenham, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England. Electron focusing system. 2,283,041; May 12.
Brodersen, Richard. (See Schneider, W., Brodersen, Meissner, and Coenen.)
Brooks, Benjamin T., Old Greenwich, Conn., assignor to Standard Alcohol Company. Desulphurizing and cracking process. 2,282,451; May 12.
Brown, Benjamin W., Hapeville, Ga. Filling clamp. 2,282,304; May 12.
Brown & Bigelow. (See Winford, Orion P., assignor.)
Brown, Horatio W., Concord, Mass. Constructing the foundations of cellarless houses. 2,282,452; May 12.
Brown Instrument Company, The. (See Harrison, Thomas R., assignor.)
Brown Instrument Company, The. (See Jones, Harry S., assignor.)
Brown Instrument Company, The. (See Keeler, Earl A., assignor.)
Brown Instrument Company, The. (See Krogh, Anker E., assignor.)
Brown, Walter J., Cleveland Heights, assignor to The Brush Development Company, Cleveland, Ohio. Leakage reducing means. 2,282,319; May 12.
Brownscombe, Philip J., East Orange, N. J., assignor to Universal Camera Corporation, New York, N. Y. Camera. 2,282,850; May 12.
Bruce, Edmond, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Modulation of cathode ray devices. 2,283,148; May 12.
Bruce, E. L., Company. (See Bruce, Robert G., assignor.)
Bruce, Robert G., Memphis, Tenn., assignor to E. L. Bruce Company. Wood flooring. 2,283,135; May 12.
Bruecker, John, Chicago, Ill. Shaving implement. 2,282,639; May 12.
Bruno, Jacob, New York, N. Y. Aerial advertising apparatus. 2,282,305; May 12.
Brush Development Company, The. (See Brown, Walter J., assignor.)
Bruson, Herman A., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. Synthetic oils. 2,282,557; May 12.
Bruson, Herman A., assignor to Röhm & Haas Company, Philadelphia, Pa. Insecticidal mercapto-oxasolines. 2,282,931; May 12.
Bruson, Herman A. (See Bock, L. H., and Bruson.)
Bucklen-Bear Laboratories, Inc. (See Bucklen, H. E., and Hedin, assignors.)
Bucklen, Herbert E. and U. C. Hedin, assignors to Bucklen-Bear Laboratories, Inc., Elkhart, Ind. Mercury switch. 2,282,512; May 12.
Bueren, Hans. (See Christmann, F., Lemme, and Bueren.)
Buffalo Brake Beam Company. (See Busch, Charles R., assignor.)
Buffalo Electro-Chemical Company. (See Kauffmann, H. O., and McEwen, assignors.)
Bühler Brothers. (See Meyer, Fritz, assignor.)
Burk, Robert E., assignor to The Standard Oil Company, Cleveland, Ohio. Asphalt preparation. 2,282,703; May 12.
Burke, Henry P., et al. (See Vetterlein, Henry M., assignor.)
Burke, James P., Knoxville, Tenn., assignor to B. L. Quarnstrom and F. L. McLaughlin, Detroit, Mich. Clinch nut. 2,282,851; May 12.
Burke, John J., New Haven, Conn., assignor to The American Steel and Wire Company of New Jersey. Interconnecting elongated flexible members in parallel. 2,283,042; May 12.
Burnett, Robert J., Woodstock, Ill. Self-aligning hammer. 2,282,932; May 12.
Busch, Albert A., assignor to Sanozone Corporation, Detroit, Mich. Air drier. 2,283,043; May 12.
Busch, Charles R., Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y. Car truck. 2,282,558; May 12.
Butters, George M., Franklin, Pa., assignor to Joy Manufacturing Company. Automotive vehicle with detachable loading head. 2,282,704; May 12.
Byers, Edward V., assignor to H. J. Baldwin & Company, Limited, Nottingham, England. Protective tile. 2,272,559; May 12.
Caesar, George V., Staten Island, assignor to Stein, Hall & Company, Inc., New York, N. Y. Stabilization of starchy paste. 2,283,044; May 12.
Cahill, Lysle D., assignor to Willard Storage Battery Company, Cleveland, Ohio. Voltage regulator and the like. 2,282,933; May 12.
Cahn, Frank J., assignor to The Emulsol Corporation, Chicago, Ill. Preparation of higher molecular weight aliphatic carboxylic acyl halides. 2,282,320; May 12.
Calderazzo, Dominick J., New York, N. Y. Making shoes and slippers. 2,282,934; May 12.
California Consumers Corporation. (See Rosberg, Nels H., assignor.)
Calkins, Claude C., and L. A. Hunt, Spokane, assignor to Calkins Manufacturing Company. Weeder. 2,282,560; May 12.
Calkins Manufacturing Company. (See Calkins, C. C., and Hunt, assignors.)
Callahan, John T., Jr., assignor to Policy Vending Corporation, San Antonio, Calif. Vending machine. 2,282,561; May 12.
Campbell, Donald L., Elizabeth, N. J., assignor to Standard Oil Development Company. Catalytic reaction apparatus. 2,282,453; May 12.
Cannon, James H., Los Angeles, Calif. Electric circuit control. 2,282,454; May 12.
Carbonara, Victor E., Rockville Center, N. Y., assignor, by mesne assignments, to Square D Company, Detroit, Mich. Pitot static tube. 2,283,045; May 12.
Carlson, Oscar A., Oakland, Calif. Hand truck. 2,282,935; May 12.
Carrick, Oland W., and L. O. Gunderson, assignors to Electro-Chemical Engineering Corporation, Chicago, Ill. Automatic blow-off for steam driers. 2,282,640; May 12.
Carrick, Oland W. (See Gunderson, L. O., and Carrick.)
Carrier Corporation. (See Shawhan, Sam F., assignor.)
Carter, Albert S., Wilmington, Del., and F. B. Downing, Carney's Point, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical process. 2,282,705; May 12.
Carter Carburetor Corporation. (See Ericson, George R., assignor.)
Carton Finishers, Inc. (See Thiersch, A. R., and Wirth, assignors.)
Casco Products Corporation. (See Bahr, Gustave F., assignor.)
Celanese Corporation of America. (See Hadley, D. J., and Jackson, assignors.)
Central Specialty Company. (See Mast, Rodney R., assignor.)
Cha-Gobe Company, The. (See Stotz, Charles K., assignor.)
Chain Belt Company. (See Ball, Charles F., assignor.)
Chann, George, Bridgeton, N. J. Auto service indicator. 2,282,852; May 12.

Charlotte Chemical Laboratories, Inc. (See Howell, D. A., Gilchrist, Ingle and Crosson, assignors.)
Chenicek, Joseph A., assignor to Universal Oil Products Company, Chicago, Ill. Suppression of metal catalysis. 2,282,936; May 12.
Chicago Aerial Survey Company. (See Sonne, Frederick T., assignor.)
Chicago Eye Shield Company. (See Malcolm, Robert L., assignor.)
Chicago Flexible Shaft Company. (See Jepson, Ivar, assignor.)
Chireix, Henri, and J. Fagot, Paris, France, assignors to Compagnie Generale De Telegraphie Sans Fil. Modulated wave amplifier. 2,282,706; May 12.
Christmann, Friederich, and H. Lemme, Ludwigshafen-on-the-Rhine, and H. Bueren, Mannheim, Germany, assignors, by mesne assignments, to W. E. Currie, New York, N. Y. Production of high molecular weight resinous substances. 2,282,456; May 12.
Church, Walter L., Houston, and W. K. Holleron, Harlingen, Tex. Valve assembly. 2,282,455; May 12.
Clark, Frank M., Pittsfield, Mass., assignor to General Electric Company. Prevention of corrosion in electric capacitors. 2,282,937; May 12.
Clark, Sherman W., St. Paul, Minn. Automatic sliding pole brake control for two-wheeled trailers. 2,282,938; May 12.
Clark, Thomas D., Victor, Iowa. Anatomic vein occluder. 2,282,853; May 12.
Clawson, Selden I., Salt Lake City, Utah. Picture and memorandum holder. 2,282,939; May 12.
Clements, James H., and J. T. Goodall, Detroit, Mich. Phonograph recording and playing device. 2,282,940; May 12.
Climax Molybdenum Company. (See Linz, Arthur, assignor.)
Clouston, Norman E., Granby, Quebec, Canada. Transparent container. 2,283,046; May 12.
Coca-Cola Company, The. (See Swan, C. P., and Dickson, assignors.)
Coenen, Max. (See Schneider, W., Brodersen, Meissner, and Coenen.)
Coffey, Irven E. (See Ericson, G. R., and Coffey.)
Cohen, Charles A., Elizabeth, N. J., assignor, by mesne assignments, to Standard Oil Development Company. Dehydrating alcohol. 2,282,457; May 12.
Cole, Wheeler J., Ann Arbor, Mich. Diesel engine fuel pump. 2,282,562; May 12.
Coleman, Clyde, Montclair, N. J., assignor to United States Rubber Company, New York, N. Y. Treatment of rubber. 2,282,941; May 12.
Colestock, Harry B., St. Paul, Minn. Fluid machine and hammer. 2,283,047; May 12.
Collett, J D., Jr., Houston, Tex. Cleaning apparatus for wells. 2,283,048; May 12.
Coltman, Bertram W. (See Frey, Frank W., assignor.)
Compagnie Generale De Telegraphie Sans Fil. (See Chireix, H., and Fagot, assignors.)
Compagnie Generale De Telegraphie Sans Fil. (See Fagot, Jacques, assignor.)
Cone Automatic Machine Company. (See Trerice, William W., assignor.)
Conover, Warren C., assignor to Outboard, Marine & Manufacturing Company, Waukegan, Ill. Carburetor. 2,282,458; May 12.
Consolidated Edison Company of New York, Inc. (See Williams, E., and Xenis, assignors.)
Continental Foods, Inc. (See Rosenthal, R. E., Sternfield, and Peddle, assignors.)
Continental Oil Company. (See Bennett, Edwin O., assignor.)
Cook, Elmer William, New York, N. Y., assignor to Tide Water Associated Oil Company, Bayonne, N. J. Lubricating oil and lubrication therewith. 2,282,707; May 12.
Corbi, Alfred, Pawtucket, and L. Bojar, Providence, R. I.; said Corbi assignor to said Bojar. Bracelet locket. 2,282,563; May 12.
Core Laboratories, Inc. (See Horner, William L., assignor.)
Corey, William W., St. Louis, Mo., assignor to Iowa Valve Company, Des Moines, Iowa. Fire hydrant, street light standard, and similar highway accessories. 2,282,641; May 12.
Cormier, Gustave J., Jr., Houston, Tex. Derrick. 2,283,049; May 12.
Cornell-Dubilier Electric Corporation. (See Beyer, Haim, assignor.)
Cornell-Dubilier Electric Corporation. (See Deeley, Paul McK., assignor.)
Corning Glass Works. (See Blau, H. H., and Gillett, assignors.)
Corning Glass Works. (See Gray, D. E., Pond, and Weber, assignors.)
Coro-Gram, Inc. (See Placco, Oscar F., assignor.)
Corrigan, John T., Newport, R. I. Hydraulic transmission. 2,282,395; May 12.
Corso, Frank S., Beechhurst, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone booth. 2,282,394; May 12.
Crane Co. (See Bennett, Alfred E., assignor.)
Cravath, Austin M., San Francisco, Calif., assignor to The Union Switch and Signal Company, Swissvale, Pa. Wattmeter. 2,282,396; May 12.
Creely, Joseph W., Oaklyn, N. J., assignor to Eavenson & Levering Co. Mothproofing. 2,282,988; May 12.
Creveling, John L., Tucson, Ariz., assignor to The Safety Car Heating and Lighting Company, Inc. Electric system. 2,282,321; May 12.
Crocker, Thomas F., assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,282,564; May 12.
Crompton & Knowles Loom Works. (See Payne, Oscar V., assignor.)
Crompton & Knowles Loom Works. (See Turner, Richard C., assignor.)
Cross, Ralph E., Detroit, Mich. Insertable blade cutter. 2,282,308; May 12.
Crosson, Leo H. (See Howell, D. A., Gilchrist, Ingle and Crosson.)
Crowe, John J., Westfield, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Flame hardening. 2,282,942; May 12.
Crowley, William H., West Springfield, Mass. Loose leaf binder. 2,282,565; May 12.
Cummins, Elizabeth E. (See Dickey, Robert B., assignor.)
Curran, Hugh, Bakersfield, Calif. Hangar. 2,282,756; May 12.
Currie, William E. (See Christmann, F., Lemme, and Bueren, assignors.)
Currie, William E. (See Smeykal, K., and Reisinger, assignors.)
Curtis, Leona V. (See Scott, Bessie L., assignor.)
Curtis Pump Company. (See Curtis, William H., assignor.)
Curtis, William H., assignor to Curtis Pump Company, Dayton, Ohio. Vane structure for rotary pumps. 2,282,642; May 12.
Cushing, Russell E. (See LeBar, W. D., and Cushing.)
Cutting, Theodore A., Campbell, Calif. Spectrometer. 2,282,643; May 12.
Dahlin, Gustaf, assignor to Lightning Fastener Company, Limited, St. Catherines, Ontario, Canada. Machine for injection molding of the interlocking elements of slide fasteners. 2,282,308; May 12.
Dalkowits, Godfrey, assignor to American Safety Razor Corporation, Brooklyn, N. Y. Shaving appliance. 2,282,943; May 12.
Danforth, Richard S., Berkeley, Calif. Twin fluke anchor. 2,282,566; May 12.
Dantzig, Tobias, Hyattsville, Md. Coffee roasting product, method, and machine. 2,282,708; May 12.
Darby, J. F. (See Porter, Albert N., assignor.)
D'Arcy, John A., Lawrence, Mass., assignor to U. S. Bobbin & Shuttle Company, Providence, R. I. Composite shuttle. 2,282,309; May 12.
Davis, Daniel W., Beaumont, Tex. Foot manipulator. 2,282,307; May 12.
Davis, Frances G., et al. (See Guy, Norman L., assignor.)
Day, Joseph F., Royal Oak, Mich. Switch for directional signals. 2,282,709; May 12.
Dearborn, Ernest F., Yonkers, N. Y., and G. L. Pearson, Towaco, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Resistance composition and making it. 2,282,944; May 12.
Deck, Elbe W., Plainfield, N. J., assignor to Oxweld Acetylene Company. Method of and apparatus for treating defective surfaces of metal bodies. 2,282,397; May 12.
Deeley, Paul McK., Plainfield, assignor to Cornell-Dubilier Electric Corporation, South Plainfield, N. J. Electrolytic capacitor. 2,282,459; May 12.
De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Subresinous acylation reaction compound. 2,282,644; May 12.
De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Subresinous acylation reaction compound. 2,282,645; May 12.
De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Ricinoleic acid ester. 2,282,646; May 12.
De Jong, Henry W. (See Engs, W., and De Jong.)
De Lancey, Ralph W., assignor to The Miller Company, Meriden, Conn. Oil burner. 2,282,989; May 12.
Demarest, Daniel D., Little Neck, N. Y., C. Berendt, East Orange, and W. Karius, Irvington, N. J., assignors to Automatic Linker, Inc., Newark, N. J. Intermittent feeding device. 2,282,945; May 12.
Denneen, Francis S., Cleveland, and William C. Dunn, Shaker Heights, assignors to The Ohio Crankshaft Company, Cleveland, Ohio. Apparatus for electric heating. 2,282,322; May 12.
De Paul, Charles, Sault Ste. Marie, Mich. Closure for box offices. 2,282,990; May 12.
De Roo, William C., assignor to Hart & Cooley Manufacturing Company, Holland, Mich. Register. 2,282,946; May 12.
De Rose, Paradise, New York, N. Y. Combination motion picture camera, screen, and projector. 2,282,991; May 12.
Déserno, Peter, Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Television receiver. 2,282,992; May 12.

De Sherbinin, Ingvar E., Mount Vernon, N. J. Stereoscopic photography and projection. 2,282,947; May 12.
Deyrup, Alden J., Westfield, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Vitrifiable composition for decorating glassware. 2,282,540; May 12.
Dichter, Jakob, Berlin-Schoneberg, Germany. Manufacture of ampoules. 2,282,993; May 12.
Dickey, Edith B., executrix. (See Dickey, Robert B.)
Dickey, Joseph B., and J. G. McNally, assignors to Eastman Kodak Company, Rochester, N. Y. Azo compounds and material colored therewith. 2,282,323; May 12.
Dickey, Robert B., deceased, late of Oklahoma City, Okla., E. B. Dickey, now by marriage, E. B. Beasley, executrix, assignor to Elizabeth E. Cummins, Kansas City, Mo. Dry-ice press. 2,282,460; May 12.
Dickson, Frederick W. (See Swan, C. P., and Dickson.)
Dietrich, Melvin A., Claymont, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Stabilization of petroleum hydrocarbons. 2,282,710; May 12.
Dietzel, Otto E. Castrop-Rauxel, assignor to the firm Rutgerswerke-Aktiengeselischaft, Berlin, Germany. Solutions of sulphur-containing organic condensation products. 2,282,948; May 12.
Dillenback, Garett V. V., Jr., Slingerlands, assignor, by mesne assignments, to Times Telephoto Equipment Inc., New York, N. Y. Electro-optical system and apparatus. 2,282,461; May 12.
Dillon, Jeremiah M., Hampstead, London, England. Air-foil. 2,282,647; May 12.
Dixon, Joseph, Crucible Company. (See Van Dorn, Horace B., assignor.)
Dobson, William A., Wethersfield, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,282,994; May 12.
Dole Valve Company, The. (See Koenig, Alphonso L., assignor.)
Dole Valve Company, The. (See Masoner, William J., assignor.)
Dolza, John, Flint, assignor to General Motors Corporation, Detroit, Mich. Vacuum control of clutch capacity. 2,282,949; May 12.
Dornin, George A., Baltimore, Md. Ingot. 2,282,462; May 12.
Dornin, George A., Baltimore, Md. Ingot mold and ingot mold stool. 2,282,463; May 12.
Dow Chemical Company, The. (See Dreisbach, Robert R., assignor.)
Dowling, Cornelius, et al. (See Ashmusen, Christian, assignor.)
Dowling, William, et al. (See Ashmusen, Christian, assignor.)
Downing, Frederick B. and C. J. Pedersen, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Stabilization of viscous petroleum oils. 2,282,513; May 12.
Downing, Frederick B. (See Carter, A. S., and Downing.)
Drefahl, Edward M., Chicago, Ill. Portable power-driven tool-operating machine. 2,282,648; May 12.
Dreisbach, Robert R., assignor to The Dow Chemical Company, Midland, Mich. Pyrolysis of diphenyl-ethane compounds. 2,282,327; May 12.
Drennan, Harry E., Whittenburg, Tex., assignor to Phillips Petroleum Company. Conversion of hydrocarbons. 2,282,602; May 12.
Driftmeyer, Herbert L., Fort Wayne, Ind., assignor to General Electric Company. Stationary induction apparatus. 2,282,854; May 12.
Drying Systems, Inc. (See Yates, Robert E., assignor.)
Dumond, George H., Jersey City, N. J. Fishing reel. 2,282,995; May 12.
Dunbar, Ralph E., East Cleveland, assignor to Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio. Vacuum cleaner. 2,282,950; May 12.
Dunlop Tire and Rubber Goods Co. Limited. (See Reid, Frederick G., assignor.)
Dunn, William C. (See Denneen, F. S., and Dunn.)
Dunn, William H., Floral Park, N. Y. Combined portable vise and vise mounting. 2,282,310; May 12.
Dunn, William L., assignor to Belmont Radio Corporation, Chicago, Ill. Terminal strip. 2,283,136; May 12.
Duplex Envelope Company, The. (See Sadler, John E., assignor.)
Du Pont, E. I., de Nemours & Company. (See Beck, H., and Kuehne, assignors.)
Du Pont, E. I., de Nemours & Company. (See Carter, A. S., and Downing, assignors.)
Du Pont, E. I., de Nemours & Company. (See Deyrup, Alden J., assignor.)
Du Pont, E. I., de Nemours & Company. (See Dietrich, Melvin A., assignor.)
Du Pont, E. I., de Nemours & Company. (See Downing, F. B., and Pedersen, assignors.)
Du Pont, E. I., de Nemours & Company. (See Finzel, Theron G., assignor.)
Du Pont, E. I., de Nemours & Company. (See Morrison, J. O., and Perkins, assignors.)
Du Pont, E. I., de Nemours & Company. (See Rothrock, Henry S., assignor.)
Du Pont, E. I., de Nemours and Company. (See Schlack, Paul, assignor.)
Du Puis, Robert N., Chicago, Ill., assignor to Association of American Soap & Glycerine Producers, Inc., New York, N. Y. Hydrogenolysis of crude sugar bearing materials. 2,282,603; May 12.
Dyresen, Didrick, Billerica, Mass. Fastener member. 2,282,996; May 12.
Earp, James F., Jr. (See Snader, I. J., and Earp.)
Eastern Tool & Mfg. Co. (See Peterson, Carl E., assignor.)
Eastman Kodak Company. (See Dickey, J. B., and McNally, assignors.)
Eavenson & Levering Co. (See Creely, Joseph W., assignor.)
Edgar, William S. W., Jr. (See Pierson, O. E., Adams, and Edgar, Jr.)
Edmundson, Jerone, Birmingham, Ala. Fire extinguishing system for ships. 2,282,997; May 12.
Edwards, Donald V., Montclair, N. J., assignor to Electrons, Inc. Rectifier circuit. 2,282,998; May 12.
Edwards, Paul G., Verona, N. J., and E. R. Taylor, Mount Vernon, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Speech transmission system. 2,282,464; May 12.
Edwards, Paul G., Verona, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Speech transmission system. 2,282,465; May 12.
Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Catalytic conversion of hydrocarbon oils. 2,282,855; May 12.
Ehricke, Erich. (See Töpfer, H., and Ehricke.)
Ehrlich, Sidney B., assignor to Stackpole Carbon Company, St. Marys, Pa. Making insulated resistors. 2,282,398; May 12.
Eklund, Howard J., Chicago, Ill. Rivet. 2,282,711; May 12.
Electric & Musical Industries Limited. (See Broadway, Leonard F., assignor.)
Electric Storage Battery Company, The. (See Ambruster, Cornelius, assignor.)
Electric Storage Battery Company, The. (See Hauel, Anna P., assignor.)
Electric Storage Battery Company. (See Murphy, Harold P., assignor.)
Electric Vacuum Cleaner Company, Inc. (See Dunbar, Ralph E., assignor.)
Electrical Testing Laboratories, et al. (See Parker, Allan E., assignor.)
Electro-Chemical Engineering Corporation. (See Carrick, O. W., and Gunderson, assignors.)
Electro-Chemical Engineering Corporation. (See Gunderson, Lewis O., assignor.)
Electro-Chemical Engineering Corporation. (See Gunderson, L. O., and Carrick, assignors.)
Electro Motive Manufacturing Company. (See Flanzer, Joseph A., assignor.)
Electrons, Inc. (See Edwards, Donald V., assignor.)
Ellefson, Henry A., Jackson, Minn. Windrower. 2,282,567; May 12.
Emulsol Corporation, The. (See Cahn, Frank J., assignor.)
Engbert, Willi, Berlin, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Zehlendorf, Osteweg, Berlin, Germany. Magnetron oscillator. 2,282,856; May 12.
Engelhardt, George B., Hartsdale, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Measurement of phase shift. 2,282,951; May 12.
Engelke, Bernard L., Los Angeles, Calif. Washing machine. 2,282,999; May 12.
Enghauser, Winford L., Cincinnati, assignor to The Production Plating Works, Inc., Lebanon, Ohio. Apparatus for forming a water heating coil. 2,282,542; May 12.
Engs, William, Piedmont, and H. W. De Jong, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif. Recovery of hydrogen halides. 2,282,712; May 12.
Epstein, Hirsch, Chicago, Ill. Illuminating means. 2,282,325; May 12.
Erickson, Otto H., Minneapolis, Minn. Artificial leg. 2,282,952; May 12.
Ericson, George R., Kirkwood, and I. E. Coffey, Normandy, Mo. Internal combustion engine. 2,282,311; May 12.
Ericson, George R., Kirkwood, assignor to Carter Carburetor Corporation, St. Louis, Mo. Vacuum pumping system. 2,282,857; May 12.
Eske, Friedrich W., Sheffield, England. Furnace grate. 2,282,713; May 12.
Etten, Nicholas L., Waterloo, Iowa. Wringer mechanism. 2,282,953; May 12.
Etten, Nicholas L., Waterloo, Iowa. Hinged top wringer. 2,282,954; May 12.
Etzkorn, Rudolf, Murg, Baden, Germany. Fibrous material. 2,282,466; May 12.
Evans, Paul I. (See Zuck, Paul E., assignor.)
Evans, Raymond B. (See Kunze, W. G., and Evans.)
Everitt, Ronald, assignor to R. Everitt and V. Everitt, Aurora, Ill. Garage construction. 2,282,324; May 12.
Everitt, Ronald, et al. (See Everitt, Ronald, assignor.)
Everitt, Vivian, et al. (See Everitt, Ronald, assignor.)
Ewald, Mark, Olympia, Wash., assignor to Special Equipment Company, Portland Oreg. Coring device. 2,282,326; May 12.

Ewing, Samuel C., Scotia, N. Y., assignor to General Electric Company. Control system for synchronous machines. 2,282,955; May 12.

Excel Curtain Company. (See Levan, John F., assignor.)

Faber, John P., Dunellen, assignor to Ransome Concrete Machinery Company, Plainfield, N. J. Rotary concrete mixer. 2,282,467; May 12.

Fabig, Georg, Berlin-Frohnau, Germany. Automatic suction circulating pump. 2,282,569; May 12.

Fagot, Jacques. (See Chireix, H., and Fagot.)

Fagot, Jacques, Paris, France, assignor to Compagnie General De Telegraphie Sans Fil. Method and means for the linear transmission or amplification of amplitude-modulated carrier waves. 2,282,714; May 12.

Fairbanks, Morse & Co. (See Munson, Lowell F., assignor.)

Falge, Robert N., and G. W. Onksen, Jr., Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Direction signal system. 2,282,956; May 12.

Faltico, Frank J., Minneapolis, Minn. Automatic gain compensating means. 2,282,649; May 12.

Faure, André, Limoges, France. Process and apparatus for the decortication of ramie. 2,282,715; May 12.

Faust, Charles L., assignor to Battelle Memorial Institute, Columbus, Ohio. Electrolyte for and method of polishing metal surfaces anodically. 2,282,350; May 12.

Faust, Charles L., assignor to Battelle Memorial Institute, Columbus, Ohio. Electrolyte for and polishing metal surfaces anodically. 2,282,351; May 12.

Feldman, Jacob C., Boston, assignor to New England Bedding Company, Medford, Mass. Glider. 2,283,000; May 12.

Felix, Fremont. (See Moore, H. G., and Felix.)

Fenton, John P., Boston, Mass., assignor to American Sandpaper Company. Abrasive article. 2,282,650; May 12.

Feuss, Edward A. (See Fitler, L. D., Jr., and Feuss.)

Fey, Harry J., assignor to J. R. Kearney Corporation, St. Louis, Mo. Package. 2,283,001; May 12.

Fides Gesellschaft für die Verwaltung und Verwertung von gewerblichen Schutzrechten mit beschrankter Haftung. (See Boysen, J., and Horn, assignors.)

Fides Gesellschaft für die Verwaltung und Verwertung von gewerblichen Schutzrechten m. b. H. (See Lurk, H. J., and Bloch, assignors.)

Fides Gesellschaft für die Verwaltung und Verwertung von gewerblichen-Schutzrechten m. b. H. (See Schwartz, Roman, assignor.)

Fides Gesellschaft für die Verwaltung und Verwertung von gewerblichen Schutzrechten mit beschrankter Haftung. (See Töpfer, H., and Ehricke, assignors.)

Fields, James L., Hollywood, Calif., assignor to Radio Corporation of America. Control circuits for motion picture apparatus. 2,282,957; May 12.

Fifth Third Union Trust Company of Cincinnati, The. (See Black, James J., assignor.)

Fillinger, Charles, assignor to Herr Manufacturing Company, Inc., Buffalo, N. Y. Self-lubricating spinning ring. 2,282,468; May 12.

Fine, Harry A., Flushing, assignor to I. B. Kleinert Rubber Company, New York, N. Y. Method of and apparatus for making absorbent pads. 2,283,137; May 12.

Finnegan, Patrick, Jeannette, assignor to American Window Glass Company, Pittsburgh, Pa. Manufacture of laminated glass. 2,282,399; May 12.

Finsel, Theron G., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulosic structure and preparing same. 2,282,568; May 12.

Fischer, Herbert G. M., Westfield, N. J., and W. James, Palembang, Sumatra, Dutch East Indies, assignors of three-fourths to Standard Oil Development Company, and one-fourth to Socony-Vacuum Oil Company. Production of color stabilized petroleum oils. 2,282,514; May 12.

Fisher, Merle L., Canton, Ohio, assignor to J. R. Kearney Corporation, St. Louis, Mo. Guard structure. 2,283,050; May 12.

Fitch, Benjamin F., Greenwich, Conn., assignor by mesne assignments to National Fitch Corporation, New York, N. Y. Freight handling apparatus. 2,282,352; May 14.

Fitch, Benjamin F., Greenwich, Conn., assignor to National Fitch Corporation, New York, N. Y. Conveyor mechanism. 2,282,353; May 12.

Fitler, Lester D., Jr., New York, N. Y., and E. A. Feuss, Bloomfield, assignors to F. M. Smith and J. G. Henry, Jr., Montclair, N. J. Hydrometer. 2,282,958; May 12.

Flamer, Joseph A., assignor by mesne assignments to P. Lauter and J. Lauter, Willimantic, Conn., doing business under the name of The Electro Motive Manufacturing Company. Electrical condenser. 2,282,358; May 12.

Floraday, Burton S., Toledo, Ohio, assignor to Marvel Equipment Corporation, Detroit, Mich. Channel assembly. 2,283,002; May 12

Food Research Laboratories, Inc., et al. (See Parker, Allan E., assignor.)

Ford Motor Company. (See Newkirk, Daniel L., assignor.)

Fort Pitt Malleable Iron Company. (See Holmes, Edward H., assignor.)

Foster, William H., Mineola, assignor to The E. R. Merrill Spring Company, New York, N. Y. Spring. 2,282,716; May 12.

Frey, Frank W., Chicago, assignor of one-half to Bertram W. Coltman, Kenilworth, Ill. Box construction. 2,282,859; May 12.

Frieder, Leonard P., New York, N. Y. Suspension lines for parachutes and the like. 2,282,717; May 12.

Frolich, Per K., Westfield, N. J., assignor to Standard Oil Development Company. Production of ethers from alcohols. 2,282,469; May 12.

Frostad, George O., and R. J. Nebel, assignors to C. B. Henschel Mfg. Co., Milwaukee, Wis. Printing apparatus. 2,283,003; May 12.

Fuehrer, George H., Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y. Clamping device. 2,282,757; May 12.

Fujioka, Richard, Berkeley, Calif. Rice hulling machine. 2,282,718; May 12.

Fuller, Charles M., Lodi, assignor to E. D. Wilkinson, Stockton, Calif. Dry concentrator table. 2,282,860; May 12.

Fuller, Charles M., Lodi, assignor to E. D. Wilkinson, Stockton, Calif. Portable dry concentrator. 2,283,051; May 12.

Fuller, Charles M., Lodi, assignor to E. D. Wilkinson, Stockton, Calif. Air control. 2,283,052; May 12.

Gaestel, Michel. (See Boyer, R., Marin and Gaestel.)

Galion Iron Works & Manufacturing Company, The. (See Arndt, Franklin E., assignor.)

Gallagher, Clarence J., Gridley, Kans. Spider for oil and gas wells. 2,282,758; May 12.

Gallagher, Walter J., Cincinnati, Ohio. Smoker's combination unit. 2,282,422; May 12.

Gannett, Danforth K., Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 2,282,719; May 12.

Gardiner, Paul C., Scotia, N. Y., assignor to General Electric Company. Oscillator. 2,282,861; May 12.

Gardner-Denver Company. (See Sheets, Barton R., assignor.)

Gavitt, Lester E., West Brookfield, Mass. Antenna loop. 2,282,759; May 12.

Gebauer, Rudolf, and H. F. R. von Traubenberg, Berlin, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Electron multiplier. 2,283,004; May 12.

Geigy, J. R., A. G. (See Krebser, A., and Bossard, assignors.)

General Aniline & Film Corporation. (See Bauer, Rudolf, assignor.)

General Aniline & Film Corporation. (See Haynn, Richard, assignor.)

General Aniline & Film Corporation. (See Schneider, W., Brodersen, Meissner, and Coenen, assignors.)

General Electric Company. (See Ayers, Edgar H., assignor.)

General Electric Company. (See Bany, Herman, assignor.)

General Electric Company. (See Bariff, Herbert F., assignor.)

General Electric Company. (See Clark, Frank M., assignor.)

General Electric Company. (See Driftmeyer, Herbert L., assignor.)

General Electric Company. (See Ewing, Samuel C., assignor.)

General Electric Company. (See Gardiner, Paul C., assignor.)

General Electric Company. (See Goff, Robert W., assignor.)

General Electric Company. (See Jones, Ray D., assignor.)

General Electric Company. (See Kenefake, Edwin W., assignor.)

General Electric Company. (See King, Ralph E., assignor.)

GGeneral Electric Company. (See Moore, H. G., and Felix, assignors.)

General Electric Company. (See Mueller, Adolf G., assignor.)

General Electric Company. (See Norris, Rollin H., assignor.)

General Electric Company. (See Oergel, Charles T., assignor.)

General Electric Company. (See Patnode, Winton I., assignor.)

General Electric Company. (See Pieplow, Hanswerner, assignor.)

General Electric Company. (See Powers, James H., assignor.)

General Electric Company. (See Puffer, Samuel R., assignor.)

General Electric Company. (See Root, Charles S., assignor.)

General Electric Company. (See Schneider, Fred B., assignor.)

General Electric Company. (See Sheldon, Lucian A., assignor.)

General Electric Company. (See Spooner, Laurence W., assignor.)

General Electric Company. (See Steiner, H. C., and Peterson, assignors.)

General Electric Company. (See Stimson, Allen G., assignor.)

General Electric Company. (See Thumim, Carl, assignor.)

General Electric Company. (See Towne, Harold M., assignor.)

General Electric Company. (See Zoller, George, assignor.)

General Motors Corporation. (See Dolza, John, assignor.)

General Motors Corporation. (See Falge, R. N., and Onksen, Jr., assignors.)

General Motors Corporation. (See Graham, Charles D., assignor.)

General Motors Corporation. (See Hawkins, H., and Reid, assignors.)

General Motors Corporation. (See Preble, Paul H., assignor.)

General Motors Corporation. (See Ragsdale, E. T., and Reynolds, assignor.)

General Motors Corporation. (See Rippingille, Edward V., assignor.)

General Motors Corporation. (See Shutts, Leroy W., assignor.)

Genova, Alberto F., Venice, Italy, assignor, by mesne assignments, to Insta-Freeze Corporation, San Francisco, Calif. Refrigeration apparatus. 2,282,862; May 12.

Ghiglieri, Joseph L. (See Wise, E. T., and Ghiglieri.)

Gibbs, John C., Brooklyn, assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y. Machine for making closure caps. 2,282,959; May 12.

Gilbert, Archie E., Madison, Wis. Non-skid attachment for vehicle wheels. 2,282,470; May 12.

Gilchrist, Peter S. (See Howell, D. A., Gilchrist, Ingle, and Crosson.)

Gillett, Weston H. (See Blau, H. H., and Gillett.)

Ginnel, William S., New York, N. Y. Cooking utensil. 2,282,400; May 12.

Githens, Otto W., and G. Kende, New York, and E. M. Porter, Brooklyn, assignors to Universal Camera Corporation, New York, N. Y. Motion picture projector. 2,282,863; May 12.

Glenn, Lewis F., Los Angeles, Calif. Picture frame. 2,282,864; May 12.

Globe Hoist Company. (See Thompson, Elmer B., assignor.)

Godfrey, Elmore M., Jr., Knoxville, Tenn. Tire tread removing machine. 2,283,005; May 12.

Göhre, Kurt R., Frankfurt-on-the-Main, Germany, assignor to American Lurgi Corporation, New York, N. Y. Sintering device. 2,283,053; May 12.

Golden, Louis, Fort Myers, Fla. Film developing apparatus. 2,282,570; May 12.

Goff, Robert W., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 2,282,865; May 12.

Goodall, John T. (See Clements, J. H., and Goodall.)

Goodman Manufacturing Company. (See Poole, Clarence F., assignor.)

Goodrich, B. F., Company, The. (See Mayne, Robert, assignor.)

Goss Printing Press Company, The. (See Bernard, David G., assignor.)

Gossel, Erich, Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Directional transmitter. 2,283,054; May 12.

Goulds Pumps, Inc. (See Mann, John, assignor.)

Graef, Russell C., Westfield, N. J. Building wall structure. 2,282,515; May 12.

Graf, Vincent J., assignor, by mesne assignments, to Steel Plumbing Wares, Inc., Detroit, Mich. Making sinks. 2,282,571; May 12.

Graham, Charles D., assignor to General Motors Corporation, Dayton, Ohio. Air grille. 2,282,572; May 12.

Graham, Oliver B. (See White, C., and Graham.)

Grand Rapids Store Equipment Company. (See Vanderweld, Anthony, assignor.)

Graviner Manufacturing Company. (See Mathisen, Anders, assignor.)

Gray, David E., and L. N. Pond, Corning, N. Y., and W. C. Webber, West Hartford, Conn., assignors to Corning Glass Works, Corning, N. Y. Glass working apparatus. 2,283,055; May 12.

Griffith, John C., Indianapolis, Ind., assignor to Radio Corporation of America. Sound head. 2,282,960; May 12.

Groene, Willard L., assignor to The R. K. LeBlond Machine Tool Company, Cincinnati, Ohio. Crankshaft broaching lathe. 2,282,720; May 12.

Gropler, Hans, and E. Handke, assignors to Junkers Flugzeug-und-Motorenwerke Aktiengesellschaft, Dessau, Germany. Airplane wing structure. 2,282,516; May 12.

Groves, Frederick H., Dormont, Pa. Carton. 2,282,573; May 12.

Guardiola, Louis S., Brussels, Belgium. Piston packing. 2,283,056; May 12.

Gulf Research & Development Company. (See Pigott, Reginald J. S., assignor.)

Gulf Research & Development Company. (See Stevens, D. R., and Nickels, assignors.)

Gunderson, Lewis O. (See Carrick, Oland W., and Gunderson.)

Gunderson, Lewis O., and O. W. Carrick, assignors to Electro-Chemical Engineering Corporation, Chicago, Ill. Boiler water conditioner and blowoff system. 2,282,775; May 12.

Gunderson, Lewis O., Park Ridge, assignor to Electro-Chemical Engineering Corporation, Chicago, Ill. Feed water and blowoff system for boilers. 2,282,776; May 12.

Gunderson, Lewis O., Park Ridge, assignor to Electro-Chemical Engineering Corporation, Chicago, Ill. Foam inhibitor apparatus for boilers. 2,282,777; May 12.

Gunn, Ross, Washington, D. C. Expansion compensating means for steam piping. 2,282,354; May 12.

Guy, Ann L., et al. (See Guy, Norman L., assignor.)

Guy, Maude W., et al. (See Guy, Norman L., assignor.)

Guy, Norman L., et al. (See Guy, Norman L., assignor.)

Guy, Norman L., Providence, R. I., assignor of one-fourth to R. G. Saacke, Providence, three-eighths to T. A. Jenckes, Cumberland, one-eighth to M. W. Guy, Providence, one-sixteenth to F. G. Davis, Cranston, one-sixteenth to A. L. Guy, Providence, R. I., one-sixteenth to N. L. Guy, Wilmington, Del., and one-sixteenth to E. G. Legadin, Roslindale, Mass. Vehicle window and ventilating system. 2,282,980; May 12.

Haberberger, Anthony, assignor to Stackpole Carbon Company, St. Mary's, Pa. Insulated resistor. 2,282,651; May 12.

Hadley, David J., and T. Jackson, Spondon, near Derby, England, assignors to Celanese Corporation of America. Treatment of artificial materials. 2,282,415; May 12.

Hadley, David J., Banstead, Surrey, and T. Jackson, Spondon, near Derby, England, assignors to Celanese Corporation of America. Treatment of artificial materials. 2,282,416; May 12.

Hadley, David J., Banstead, Surrey, and T. Jackson, Spondon, near Derby, England, assignors to Celanese Corporation of America. Treatment of artificial materials. 2,282,417; May 12.

Hagemann, John R., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Turbine regulation and regulating apparatus. 2,283,138; May 12.

Hagen, Harold, Buffalo, N. Y. Electric liquid mixer and heater. 2,282,866; May 12.

Hagen, Wolfgang, and T. Nickel, Berlin, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Wire carrier system. 2,283,057; May 12.

Hahnemann, Walter M., and E. Kramar, Berlin, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Supervisory means for high frequency radiations. 2,283,058; May 12.

Hake, Donald S. (See Wellings, W. G., and Hake.)

Halbesch, Gerald K., Brookfield, Ill. Drafting pencil. 2,282,574; May 12.

Hale, Byford C., Tulsa, Okla. Valve mechanism. 2,282,867; May 12.

Hall, Edward H., Chicago, Ill. Press. 2,282,575; May 12.

Hall, Edwin S., New Haven, Conn. Engine construction. 2,282,721; May 12.

Hall, Edwin S., New Haven, Conn. Crosshead mechanism. 2,282,722; May 12.

Hall, Horace W., Newton, Mass. Playing racket construction. 2,282,418; May 12.

Hall, Horace W., Newton, Mass. Grip means for implement handles. 2,282,419; May 12.

Halstead, John H., San Jose, Calif. Packing. 2,282,312; May 12.

Hamilton, Alfred E., Pittsburgh, Pa. Finishing metal sheets. 2,282,723; May 12.

Hamilton, Francis C., Columbia, Ill., and E. C. Landholt, Overland, Mo., said Landholt assignor to L. R. Schuessler, St. Louis, Mo. Bottling machine. 2,282,576; May 12.

Hamilton, Sidney A., Shreveport, La. Scalp massaging apparatus. 2,282,577; May 12.

Handke, Erwin. (See Gropler, H., and Handke.)

Hannifin Manufacturing Co. (See Peterson, V. W., and Maha, assignors.)

Hannum, John A., Detroit, Mich. Electric switch. 2,282,355; May 12.

Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Electrical vacuum pump. 2,282,401; May 12.

Harmon, Kenneth A., Longmeadow, assignor to Wico Electric Company, West Springfield, Mass. Ignition means for radial engines. 2,282,581; May 12.

Harnischfeger Corporation. (See Mitchell, Robert B., assignor.)

Harris, William A., Nutley, N. J., assignor to Radio Corporation of America. Frequency modulation detector circuits. 2,282,961; May 12.

Harrison, J. Floyd, et al. (See Marcum, M., and Vance, assignors.)

Harrison, Thomas R., Wyncote, assignor to The Brown Instrument Company, Philadelphia, Pa. Control instrument. 2,283,059; May 12.

Hart & Cooley Manufacturing Company. (See De Roo, William C., assignor.)

Hartford-Empire Co. (See Barker, William T., Jr., assignor.)

Hartford-Empire Company. (See Berthold, Walter K., assignor.)

Hathaway, Hubert B., Windsor, Ontario, Canada, assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich. Fabric slitting and folding machine. 2,283,060; May 12.

Hauel, Anna P., New York, N. Y., assignor to The Electric Storage Battery Company, Philadelphia, Pa. Electrode. 2,282,760; May 12.

Hauge, Oscar W., executor. (See Johanson, C. H., and Nordstrom.)
Hawkins, Harry, and W. L. Reid, Saginaw, assignors to General Motors Corporation, Detroit, Mich. Gear shift remote control. 2,282,962; May 12.
Hawkinson, Paul E., assignor to P. E. Hawkinson Company, Minneapolis, Minn. Treading tire casings. 2,282,578; May 12.
Hawkinson, Paul E., assignor to P. E. Hawkinson Company, Minneapolis, Minn. Method of retreading tire casings. 2,282,579; May 12.
Hawkinson, Paul E., assignor to P. E. Hawkinson Company, Minneapolis, Minn. Method of retreading tire casings. 2,282,580; May 12.
Hawkinson, Paul E., Company. (See Hawkinson, Paul E., assignor.)
Hayes Industries, Inc. (See Hollerith, Charles, assignor.)
Haynes, Robert L., Haddon Heights, N. J., assignor to Radio Corporation of America. Spring driven electric generator. 2,282,963; May 12.
Haynn, Richard, Frankfort-on-the-Main, Germany, assignor to General Aniline & Film Corporation. Dyeing with substantive colors. 2,282,724; May 12.
Hazeltine Corporation. (See Tyson, Benjamin F., assignor.)
Hedding, Linnie K., assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical regulating apparatus. 2,282,471; May 12.
Hedin, Uno C. (See Buckles, H. E., and Hedin.)
Hefele, Edward J., Amityville, N. Y. Automatic radio direction indicator system. 2,282,402; May 12.
Hellmuth, Jacob A., Bloemfontein, Union of South Africa. Method and apparatus for lighting areas particularly applicable to facilitating night landings of aircraft. 2,282,356; May 12.
Hendley, Flavius J., Chattanooga, Tenn. Hanger for electrical conductors. 2,283,061; May 12.
Henning, Raymond A., assignor of seventy-five percent to C. S. Johnson, Piru, Calif. Hydraulic device. 2,282,652; May 12.
Henninger, Andrew F. and G. D., Chicago, Ill. Motor. 2,282,582; May 12.
Henninger, George D. (See Henninger, Andrew F., and G. D.)
Henrici, Fritz W. A., Milton, Mass., assignor to The Prosperity Company, Inc., Syracuse, N. Y. Receiving and loading tray for laundry hydro-extractors. 2,282,583; May 8.
Henry, James G., Jr., et al. (See Fitler, L. D., Jr., and Feuss, assignors.)
Henschel C. B., Mfg. Co. (See Frostad, G. O., and Nebel, assignors.)
Herget, Marvin C., Williamsville, assignor to Bell Aircraft Corporation, Buffalo, N. Y. Control mechanism. 2,283,139; May 12.
Herman, Kenneth R., and R. L. Tweedale, assignor to Vickers Incorporated, Detroit, Mich. Hydraulic brake. 2,282,472; May 12.
Herold, Walter F., assignor to The Bassick Company, Bridgeport, Conn. Tilting chair mounting. 2,283,062; May 12.
Herr Manufacturing Company. (See Fillinger, Charles, assignor.)
Herrick, George G., and H. N. Veley, Saint Marys, Pa., assignors to Speer Resistor Corporation. Making resistors. 2,282,328; May 12.
Herrick, Roswell H., Oak Park, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Transmission system. 2,282,403; May 12.
Herrick, Roswell H., Oak Park, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Transmission system. 2,282,404; May 12.
Herrick, Roswell H., Oak Park, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Transmission system. 2,282,405; May 12.
Hershey, Abram E., assignor to Hershey Creamery Company, Harrisburg, Pa. Sirup injector for semisolid frozen mass. 2,282,313; May 12.
Hershey Creamery Company. (See Hershey, Abram E., assignor.)
Herwig, Irvin G. H., Ohlman, Ill. Auto vehicle safety signal. 2,282,761; May 12.
Herzmark, Maurice H., New York, N. Y. Surgical traction device. 2,282,653; May 12.
Hess, Hanna M. (See Shaler, J. L., and Hess.)
Heuver, Herbert M., Seattle, Wash. Shoe-polishing machine. 2,283,063; May 12.
Hilbrand, David, New York, N. Y. Cutting and reducing device for relief pictures. 2,283,064; May 12.
Hill, George D., Millville, W. Va., assignor to The Standard Lime and Stone Company, Baltimore, Md. Operating rotary kilns. 2,282,584; May 12.
Hill, Henry C., Montclair, N. J., assignor to Wright Aeronautical Corporation. Transmission. 2,282,517; May 12.
Hirst, Harvey L., et al. (See Vetterlein, Henry M., assignor.)
Hochwalt, Carroll A., Dayton, and M. Plunguian, assignors to The Mead Corporation, Chillicothe, Ohio. Preparation of phenol-lignin-aldehyde resins. 2,282,518; May 12.
Hoe, R., & Co. (See Huck, William F., assignor.)
Hoffman, Edward L., and J. M. Russell, assignors to Standard Parachute Corporation, San Diego, Calif. Parachute. 2,282,407; May 12.
Hoffmann, Jacob A., Lyndhurst, assignor to H. P. Preis Engraving Machine Co., Newark, N. J. Copy character holder. 2,282,473; May 12.
Hohl, Russell L., New York, N. Y. Wall construction. 2,282,964; May 12.
Holcomb, Philo, Jr., Flushing, assignor to The Western Union Telegraph Company, New York, N. Y. Signaling system. 2,282,357; May 12.
Holcomb, Philo, Jr., Great Neck, assignor to The Western Union Telegraph Company, New York, N. Y. Telegraph system. 2,282,358; May 12.
Hollenbeck, Ernest L., East Orange, N. J. Fluid control applicator. 2,282,406; May 12.
Hollerith, Charles, assignor to Hayes Industries, Inc., Jackson, Mich. Airplane wheel. 2,282,359; May 12.
Holleron, William K. (See Church, W. L., and Holleron.)
Holley, Earl, et al. (See Kittler, M. J., and Udale, assignors.)
Holley, Earl, et al. (See Udale, Stanley M., assignor.)
Holley, George M., et al. (See Kittler, M. J., and Udale, assignors.)
Holley, George M., et al. (See Udale, Stanley M., assignor.)
Hollywood Comb Curler, Inc. (See Wallace, Frank C., assignor.)
Holmes, Edward H., assignor to Fort Pitt Malleable Iron Company, McKees Rocks, Pa. Pavement structure. 2,282,519; May 12.
Holophane Company. (See Logan, H. L., and Wince, assignors.)
Hoppe, William, Longmeadow, assignor to National Bread Wrapping Machine Co., Springfield, Mass. Sheet retainer for magazine feed. 2,282,585; May 12.
Horn, Ernst. (See Boysen, J., and Horn.)
Horner, William L., assignor to Core Laboratories, Inc., Dallas, Tex. Apparatus for determining fluid contents of solids. 2,282,654; May 12.
Horrocks, Walter E., Lakewood, Ohio. Lock washer for retaining pins in couplings. 2,282,360; May 12.
Hossfeld, John D., Beverly, Mass., assignor to United Shoe Machinery Company, Borough of Flemington, N. J. Quarter lining inking machine. 2,282,420; May 12.
Houlihan, William J., Windsor, Melbourne, Victoria, Australia. Spinning top. 2,282,314; May 12.
Howard, Stanley R., Milton, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Receptacle cleaning machine. 2,282,474; May 12.
Howell, Douglas A., P. S. Gilchrist, W. W. Ingle, and L. H. Crosson, assignors to Charlotte Chemical Laboratories, Inc., Charlotte, N. C. Insulating and refractory plastic. 2,282,361; May 12.
Hubacker, Earl F., Highland Park, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Electric motor unit or the like. 2,282,586; May 12.
Huck, William F., Richmond Hill., assignor to R. Hoe & Co., Inc., New York, N. Y. Inking mechanism for printing machines. 2,282,655; May 12.
Huebner, William C., New York, N. Y. Image reverser for cameras. 2,282,656; May 12.
Huggins, Leroy G. (See Minkler, W. A., and Huggins.)
Humphrey, Robert G., Pelham, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Solder connecting apparatus. 2,283,158; May 12.
Hunt, Laurence A. (See Calkins, C. C., and Hunt.)
Hunter, Thurman H., White Bluffs, Tenn. Chain shot. 2,283,065; May 12.
Hurd, Loren C., Jenkintown, assignor to Röhm & Haas Company, Philadelphia, Pa. Preparing zinc formaldehyde sulphoxylate. 2,282,965; May 12.
Hutchinson, Paul, St. Louis, Mo. Combined cigarette package wrapper and match package holder. 2,283,147; May 12.
Hydraulic Brake Company. (See Bowen, Herbert C., assignor.)
Hydraulic Brake Company. (See Swift, Harvey C., assignor.)
Imperial Chemical Industries Limited. (See Lean, O. B., and Armstrong, assignors.)
Imperial Chemical Industries Limited. (See McGill, J. H., and Tattersall, assignors.)
Imperial Chemical Industries Limited. (See Rogers, M. A. T., and Sexton, assignors.)
Industrial Patents Corporation. (See McCue, William J., assignor.)
Ingersoll-Rand Company. (See Fuehrer, George H., assignor.)
Ingersoll, Roy C., Winnetka, assignor to Borg-Warner Corporation, Chicago, Ill. Closed receptacle. 2,283,066; May 12.
Ingle, William W. (See Howell, D. A., Gilchrist, Ingle, and Crosson.)
Ingraham, Leo L., Santa Barbara, Calif. Toilet flush mechanism. 2,282,604; May 12.
Innes, George, Davenport, Iowa. Pickup and delivery mechanism. 2,282,868; May 12.
Insta-Freeze Corporation. (See Genova, Alberto F., assignor.)
Insta-Freeze Corporation. (See Lindsey, Ernest E., assignor.)

Insulation Development Corporation. (See Tea, Clark A., assignor.)
Interchemical Corporation. (See Bates, Franklin S., assignor.)
International Business Machines Corporation. (See Leathers, Ward, assignor.)
International Business Machines Corporation. (See Mills, Albert W., assignor.)
Iowa Valve Company. (See Corey, William W., assignor.)
Ipatieff, Vladimir, and H. Pines, assignors to Universal Oil Products Company, Chicago, Ill. Isomerization of normal butane. 2,283,142; May 12.
Ipatieff, Vladimir N., and H. Pines, assignors to Universal Oil Products Company, Chicago, Ill. Isomerization of normal butane. 2,283,143; May 12.
Ippolito, Joseph L., Jr., Ansonia, Conn. Piston ring expander. 2,282,475; May 12.
Irvine, Vanan C. (See Tamele, M., Ryland, and Irvine.)
Jaburek, Fritz. (See Schichtel, G., and Jaburek.)
Jackson, John G., assignor to Square D Company, Detroit, Mich. Circuit breaker. 2,282,520; May 12.
Jackson, Thomas. (See Hadley, D. J., and Jackson.)
James, Willem. (See Fischer, H. G. M., and James.)
Jamestown Steel Partitions, Inc. (See Johnson, Carl E. T., assignor.)
Jarrett, George T., East Cleveland, assignor, by mesne assignments, to Automotive Devices Company, Cleveland, Ohio. Clutch plate. 2,282,981; May 12.
Jenckes, Thomas A., et al. (See Guy, Norman L., assignor.)
Jenkins, James M., assignor to Andale Company, Philadelphia, Pa. Valve mechanism. 2,282,476; May 12
Jennings, William H., Portsmouth, Va. Refining sulphate wood turpentine. 2,283,067; May 12.
Jensen, Raymond A. (See Johnson, L. T., and Jensen.)
Jepson, Ivar, assignor to Chicago Flexible Shaft Company, Chicago, Ill. Shaving implement. 2,282,725; May 12.
Jewett, Joseph E., Larchmont, assignor to American Cyanamid and Chemical Corporation, New York, N. Y. Steam fractionation. 2,282,982; May 12.
Joa, Curt G., assignor to Curt G. Joa, Inc., Sheboygan Falls, Wis. Continuous bat assembly machine and method. 2,282,477; May 12.
Joa, Curt G., Jr., Inc. (See Joa, Curt G., assignor.)
Johanson, Carl H., Los Angeles, Calif., and W. Nordstrom, Lund, Sweden; said Nordstrom assignor to said Johanson; O. W. Hauge, executor of said C. H. Johanson, deceased. Leather-stretching apparatus. 2,282,478; May 12.
Johnson, Carl E. T., assignor to Jamestown Steel Partitions, Inc., Jamestown, N. Y. Shower cabinet. 2,282,329; May 12.
Johnson, Carl E. T., assignor to Jamestown Steel Partitions, Inc., Jamestown, N. Y. Shower cabinet. 2,282,362; May 12.
Johnson, Charles S. (See Henning, Raymond A., assignor.)
Johnson, Harry J., Alma, Colo. Propeller. 2,283,068; May 12.
Johnson Laboratories, Inc. (See Sinninger, Dwight V., assignor.)
Johnson, Lyle T., Madison, and R. A. Jensen, Menomonie, Wis. Shutter mechanism for cameras. 2,282,869; May 12.
Johnston, Clare E., administratrix. (See Johnston, Robert T.)
Johnston, George F., Elm Grove, assignor to Allis Chalmers Manufacturing Company, Milwaukee, Wis. Welding work positioner. 2,283,140; May 12.
Johnston, Robert T., deceased, Plainfield, N. J., by C. E. Johnston, administratrix, Newark, N. J., assignor, by mesne assignments, to Bakelite Corporation. Roofing granule and the like. 2,282,479; May 12.
Jones, Harry S., assignor to The Brown Instrument Company, Philadelphia, Pa. Control apparatus. 2,282,726; May 12.
Jones, Ray D., Fort Wayne, Ind., assignor to General Electric Company. Dynamoelectric machine. 2,282,966; May 12.
Joseph, Francis M., Cliffside Park, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Electromagnetic device. 2,282,762; May 12.
Joy Manufacturing Company. (See Butters, George M., assignor.)
Joy Manufacturing Company. (See Russell, John D., assignor.)
Junkers Flugzeug-und-Motorenwerke Aktiengesellschaft. (See Gropler, H., and Handke, assignors.)
Kahn, Albert, Inc. (See Schurman, John, assignor.)
Kaptuller, Alexander F., Chicago, Ill. Machine for chopping foods. 2,282,521; May 12.
Karius, William. (See Demarest, D. D., Berendt, and Karius.
Kasuske, William A., Twin Brooks, S. Dak. Grease gun filler. 2,282,727; May 12.
Katzinger, Edward, Company, The. (See Baxter, Gustave S. and T. C., assignors.)
Kauffmann, Hans O., and R. L. McEwen, Buffalo, assignors to Buffalo Electro-Chemical Company, Inc., Tonawanda, N. Y. Treatment of textile fabrics. 2,283,141; May 12.
Kay-Brunner Steel Products Inc. (See Argo, Lisle T., assignor.)
Kearney, James R., Corporation. (See Fey, Harry J., assignor.)
Kearney, James R., Corporation. (See Fisher, Merle L., assignor.)
Keefe, Arthur, Akron, Ohio. Electrical connection-circuit breaker. 2,282,967; May 12.
Keeler, Earl A., Norristown, assignor to The Brown Instrument Company, Philadelphia, Pa. Measuring and control apparatus. 2,282,480; May 12.
Keiser, Bernhard. (See De Groote, M., and Keiser.)
Kellogg, Spencer, and Sons, Inc. (See Schwarcman, Alexander, assignor.)
Kelsey-Hayes Wheel Company. (See Baisch, Carl F., assignor.)
Kende, George. (See Githens, O. W., Kende, and Porter.)
Kenefake, Edwin W., Schenectady, N. Y., assignor to General Electric Company. Coupling apparatus. 2,282,968; May 12.
Kennedy, Andrew M., Sewickley, Pa. Floating launching ways. 2,282,481; May 12.
Kennedy, Clifford F., Los Angeles, Calif. Amusement device. 2,282,763; May 12.
Kenney, Clarence E. (See Allen, R. C., and Kenney.)
Kennison, Frank, Beverly, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Actuating mechanism for work clamps. 2,282,330; May 12.
Kermath Manufacturing Company. (See Schultz, Arthur B., assignor.)
Kern, Joseph W., Buffalo, N. Y. Attachment for rotary drills or the like. 2,282,728; May 12.
Keystone Reamer & Tool Company. (See Wommer, Howard G., assignor.)
Kincaid, Frank M., Jr., Mountain Lakes, N. J., assignor to Wright Aeronautical Corporation. Sealing ring for rotary hydraulic clutches. 2,282,543; May 12.
King, Charles G., assignor to The University of Pittsburgh, Pittsburgh, Pa. Biological product and obtaining same. 2,282,969; May 12.
King, Ralph E., Fort Wayne, Ind., assignor to General Electric Company. Variable capacity refrigerant evaporator. 2,282,970; May 12.
King, Walter E., assignor to J. S. Abercrombie, Houston, Tex. Blowout preventer. 2,282,363; May 12.
Kirchen, Theodore, Chicago, Ill. Artificial flower. 2,282,657; May 12.
Kittler, Milton J. and S. M. Udale, assignors to G. M. and E. Holley, Detroit, Mich. Power control. 2,283,006; May 12.
Kleinert, I. B., Rubber Company. (See Fine, Harry A., assignor.)
Knauf, Charles S., Chicago, Ill. Cutting tool. 2,282,729; May 12.
Kneisley, Richard F., assignor to The American Floor Surfacing Machine Company, Toledo, Ohio. Sanding belt machine. 2,282,658; May 12.
Knight, Oliph M., Chicago, Ill., and W. C. Le Mire, Miami, Fla. Speed controlling device for motor vehicles. 2,282,366; May 12.
Knuetter, Paul, assignor to Thomas M. Royal & Company, Philadelphia, Pa. Bag and making same. 2,283,069; May 12.
Koch, Frederick, Sparta, assignor to Associated Patentees, Inc., Ampere, N. J., Milling machine. 2,283,153; May 12.
Koch, Frederick, Sparta, assignor to Associated Patentees, Inc., Ampere, N. J. Milling machine. 2,283,154; May 12.
Koch, Winfield R., Haddonfield, N. J., assignor to Radio Corporation of America. Signal detecting system. 2,282,971; May 12.
Koch, Winfield R., Haddonfield, N. J., assignor to Radio Corporation of America. Wide band receiver. 2,282,972; May 12.
Koch, Winfield R., Haddonfield, N. J., assignor to Radio Corporation of America. Wide band frequency modulation receiving system. 2,282,973; May 12.
Koch, Winfield R., Haddonfield, N. J., assignor to Radio Corporation of America. Radio signal receiving system. 2,282,974; May 12.
Koenig, Alphonso L., assignor to The Dole Valve Company, Chicago, Ill. Bottle container. 2,282,482; May 12.
Koistinen, Arnold A., Bryant, S. Dak. Ridge leveling attachment. 2,282,367; May 12.
Kollberg, Gustaf L. (See Shaw, M. C., and Kollberg.)
Kopitke, William H., West Hartford, assignor to Plax Corporation, Hartford, Conn. Process and apparatus for forming articles from organic plastic materials. 2,282,423; May 12.
Kraft, Maurice, San Francisco, Calif. Toothbrush. 2,282,730; May 12.
Krakauer, Samuel. (See Marcus, S. S., and Krakauer.)
Kramar, Ernst. (See Hahnemann, W. M., and Kramar.)
Kratz, John A., Bronxville, N. Y., assignor to The Linde Air Products Company. Electric welding. 2,282,522; May 12.
Krause, Frederick, assignor to S. K. Smith Co., Chicago, Ill. Merchandise container. 2,282,483; May 12.
Krebser, Adolf, Riehen, near Basel, and W. Bossard, assignors to the firm J. R. Geigy A. G., Basel, Switzerland. Trisazo dyestuffs, their copper compounds and their manufacture. 2,282,331; May 12.

Kreutzer, Conradin, assignor to Süddeutsche Apparate-Fabrik, Nurnberg, Germany. Manufacturing selenium rectifiers and photoelectric selenium cells. 2,282,523; May 12.

Krogh, Anker E., assignor to The Brown Instrument Company, Philadelphia, Pa. Furnace control. 2,283,007; May 12.

Kroll, Nathan J. (See Kroll, Samuel, and N. J.)

Kroll, Samuel and N. J., Chicago, Ill. Stabilizer for drop side cribs. 2,282,484; May 12.

Kuehne, Walther. (See Beck, H., and Kuehne.)

Kuhlman, Orville E., and J. M. Majewski, Jr., assignors to F. L. Talge, operating as Rival Manufacturing Company, Kansas City, Mo. Fruit juice extractor. 2,283,119; May 12.

Kuhn, George, Takoma Park, Md., assignor to G. Kuhn, Silver Spring, Md., O. S. Wilkinson, Washington, D. C., and L. A. Swem, New York, N. Y., as trustees. Washing and cleaning machine. 2,282,332; May 12.

Kuhn, George, as trustee. (See Kuhn, George, assignor.)

Kun, Eugene R., La Crosse, Wis. Automatic exposure camera. 2,282,659; May 12

Kunse, Walter G., and R. B. Evans, Catonsville, Md., assignors to Le Page's Inc., Gloucester, Mass. Starch adhesive composition. 2,282,364; May 12.

Kurth, Franz J., New York, N. Y., assignor to Anemostat Corporation of America. Ventilating and illuminating device. 2,282,587; May 12.

Lach, Joseph S., assignor to The Yale and Towne Manufacturing Company, Stamford, Conn. Padlock cylinder retainer. 2,282,983; May 12.

Laird, Marshall, Los Angeles, Calif. Link for Venetian blinds. 2,282,424; May 12.

Lambert, J. T. et al. (See Marcum, M., and Vance, assignors.)

Landholt, Elmer C. (See Hamilton, F. C., and Landholt.)

Lang, Richard T., assignor to J. M. Voith, Heidenheim on the Brenz, Germany. Apparatus for regulating and delivering paper stock to paper making machines. 2,283,155; May 12.

Laporte, Joseph A. (See Bell, Philias.)

Larkwood Silk Hosiery Mills, Inc. (See Mitzel, John P., assignor.)

Larsen, Neil P., and H. J. Troche, Cleveland Heights, assignors to The American Coach & Body Company, Cleveland, Ohio. Winch. 2,282,731; May 12.

Latina, Harry B. (See Scudder, M., Nolte, and Latina.)

Lauter, Josephine, et al. (See Flanzer, Joseph A., assignor.)

Lauter, Philip, et al. (See Flanser, Joseph A.)

Lazzari, Robert, Bronx, N. Y. Toy catapult and projectile. 2,282,764; May 12.

Lean, Owen B., Winkfield, Windsor, and G. Armstrong, Runcorn, England, assignors to Imperial Chemical Industries Limited. Composition for treating soil. 2,282,732; May 12.

Leathers, Ward, Brooklyn, N. Y., assignor, by mesne assignments, to International Business Machines Corporation. Automatic meter-reading apparatus. 2,283,070; May 12.

Leathers, Ward, Brooklyn, N. Y., assignor, by mesne assignments, to International Business Machines Corporation. Automatic meter-reading apparatus. 2,283,071; May 12.

Leathers, Ward, Brooklyn, N. Y., assignor, by mesne assignments, to International Business Machines Corporation. Automatic meter-reading apparatus. 2,283,072; May 12.

Le Bar, William D., and R. E. Cushing, Wyandotte, Mich., assignors to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Chemical processing apparatus. 2,283,008; May 12.

LeBlond, R. K., Machine Tool Company. (See Groene, Willard L., assignor.)

Lee, Don, Broadcasting System. (See Lubcke, Harry R., assignor.)

Lee, James E., Dallas, Tex. Corn slicer, shredder, and scraper. 2,282,660; May 12.

Legsdin, Elizabeth G., et al. (See Guy, Norman L., assignor.)

Lehn, John U., and J. D. Zahm, assignors to Animal Trap Company of America, Lititz, Pa. Animal trap. 2,282,485; May 12.

Le Mire, Warren C. (See Knight, O. M., and Le Mire.)

Lemme, Heinz. (See Christmann, F., Lamme, and Bueren.)

Le Monde Corset Company. (See Schubert, Minna R., assignor.)

Leonard, Ward, Electric Company. (See Logan, Frank G., assignor.)

Le Page's Inc. (See Kunze, W. G., and Evans, assignors.)

Lester Engineering Company. (See Whyte, Daniel O., assignor.)

Levan, John F., assignor to Excel Curtain Company, Inc., Elkhart, Ind. Sliding window construction. 2,283,009; May 12.

Leveque, Bernard T., Wenham, assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Sewing machine. 2,282,073; May 12.

Levin, Joseph, Lancaster, Pa. Umbrella rib tip. 2,283,074; May 12.

Lewis, James A., assignor to Arden Farms Co., San Diego, Calif. Device for handling and dipping confections. 2,282,661; May 12.

Lightning Fastener Company. (See Dahlin, Gustaf, assignor.)

Linde Air Products Company, The. (See Kratz, John A., assignor.)

Linderoth, Lambert S., Jr., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Shoe machinery. 2,282,365; May 12.

Lindsay, Donald G., Kogarah, near Sydney, assignor to Amalgamated Wireless (Australasia) Limited, Sydney, New South Wales, Australia. Inverse feed-back amplifier. 2,282,605; May 12.

Lindsey, Ernest E., Los Angeles, Calif., assignor to Insta-Freeze Corporation. Process and apparatus for the preparation of frozen confections. 2,282,662; May 12.

Linz, Arthur, assignor to Climax Molybdenum Company, New York, N. Y. Alloying steel. 2,282,486; May 12.

Lionel Corporation, The. (See Bonanno, Joseph L., assignor.)

Logan, Frank G., Mount Vernon, N. Y., assignor to Ward Leonard Electric Company. Electric motor. 2,282,624; May 12.

Logan, Henry L., New Rochelle, N. Y., and V. Wince, Newark, Ohio, assignors to Holophane Company, Inc., New York, N. Y. Store lighting apparatus. 2,283,010; May 12.

Lorenz, C., Aktiengesellschaft. (See Brinkmann, F., and Zodtner, assignors.)

Lorenz, C., Aktiengesellschaft. (See Deserno, Peter, assignor.)

Lorenz, C., Aktiengesellschaft. (See Gebauer, R., and von Traubenberg, assignors.)

Lorenz, C., Aktiengesellschaft. (See Gossel, Erich, assignor.)

Lorenz, C., Aktiengesellschaft. (See Hagen, Wolfgang, and Nickel, assignors.)

Lorenz, C., Aktiengesellschaft. (See Hahnemann, W. M., and Kramar, assignors.)

Lorenz, C., Aktiengesellschaft. (See Metschl, Emil, assignor.)

Lorenz, C., Aktiengesellschaft. (See Neubauer, Alois, assignor.)

Lorenz, C., Aktiengesellschaft. (See Schrumpf, Max, assignor.)

Lowe, Edward T. (See Mayer, S. W., and Lowe.)

Lowe, Joseph N., New York, N. Y. Handbag. 2,282,408; May 12.

Lowe, Joseph N., New York, N. Y. Handbag. 2,282,409; May 12.

Lozier, William W. (See Simon, R. W., and Lozier.)

Lubcke, Harry R., assignor to Don Lee Broadcasting System, Los Angeles, Calif. Television receiver. 2,272,467; May 12.

Lubri-Zol Development Corporation. (See Prutton, Carl F., assignor.)

Luby, Charles H., Philadelphia, Pa. Reinforcing material and producing same. 2,282,421; May 12.

Lundie, Ernest S., Haddon Heights, N. J., assignor to Radio Corporation of America. Audio frequency amplifier. 2,282,870; May 12.

Luck, Hans J., Berlin-Siemensstadt, and F. Bloch, Berlin-Charlottenburg, assignors to Fides Gesellschaft für die Verwaltung und Verwertung von gewerblichen Schutzrechten m. b. H., Berlin, Germany. Telephone system. 2,282,975; May 12.

Lyon, George A., Allenhurst, N. J. Apparatus for forming metal articles. 2,282,588; May 12.

MacClatchie, John W., Los Angeles, Calif., assignor, by mesne assignments, to Merco-Nordstrom Valve Company, Pittsburgh, Pa. Lubricating means. 2,282,488; May 12.

Macvaugh, Gilbert S., United States Navy. Visor. 2,282,334; May 12.

Madlem, Leo S., San Francisco, Calif. Oven heating system. 2,282,489; May 12.

Maguire, Walter R., Manhasset, N. Y. Quick freezing apparatus. 2,282,525; May 12.

Maha, Otto J. (See Peterson, V. W., and Maha.)

Majerus, Hubert S., Minneapolis, Minn. Sad iron rest. 2,282,668; May 12.

Majewski, Joseph M., Jr. (See Kuhlman, O. E., and Majewski, Jr.)

Malbon, Clifford B., Marblehead, Mass. Game board. 2,282,871; May 12.

Malcom, Robert L., Chicago, Ill., assignor to Chicago Eye Shield Company. Welder's shield. 2,283,120; May 12.

Malloy, Joseph P., Washington, Ind. Ventilator. 2,282,733; May 12.

Maloney, Walter F. (See Whann, R. D., and Maloney.)

Mann, John, assignor to Goulds Pumps, Inc., Seneca Falls, N. Y. Pumping apparatus. 2,282,765; May 12.

Marcum, Melvin, and R. Vance, Breeden, assignors of one-sixth to J. F. Harrison, and one-sixth to J. T. Lambert, both of Wayne, W. Va. Boat propelling mechanism. 2,282,368; May 12.

Marcus, Samuel S., Lewisboro, and S. Krakauer, New York, N. Y. Apparatus for assembling coiled spring units. 2,282,664; May 12.

Maresch, Frank, Nekoma, Kans. Dam digger. 2,282,984; May 12.

Marin, Marcel. (See Boyer, R., Marin and Gaestel.)

Martin, Alfred M., Park Ridge, Ill. Loose-leaf binder. 2,282,976; May 12.

Martin, James D., et al. (See Bert, Samuel D., assignor.)

Martin, Otis C., Los Angeles, Calif. Valve construction. 2,282,490; May 12.

Martin, Robert W., Wilmington, Del. Refining process. 2,283,156; May 12.

Marvel Equipment Corporation. (See Floraday, Burton S., assignor.)

Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Piezoelectric crystal apparatus. 2,282,369; May 12.

Masoner, William J., assignor to The Dole Valve Company, Chicago, Ill. Venting device for radiators. 2,282,734; May 12.

Mast, Rodney R., assignor to Central Specialty Company, Ypsilanti, Mich. Hydraulic operating mechanism for pumps. 2,282,977; May 12.

Masteller, Malcolm L., Miami, Fla. Hydraulic brake. 2,282,333; May 12.

Master Electric Company, The. (See Black, Theodore R., assignor.)

Mastic Asphalt Corporation. (See Snyder, Gilbert J., assignor.)

Mathisen, Anders, Osterley, Isleworth, assignor to Graviner Manufacturing Company Limited, Osterley, Isleworth, Middlesex, England. Fire extinguishing system device. 2,282,491; May 12.

Matthews, Howard D., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Thermostat. 2,283,075; May 12.

Mattimore, John D., Greensburg, Pa., assignor to Walworth Patents Inc., Boston, Mass. Valve. 2,283,076; May 12.

Maurer, J. A., Inc. (See Maurer, John A., Jr., assignor.)

Maurer, John A., Jr., assignor to J. A. Maurer, Inc., New York, N. Y. Camera focusing device. 2,283,077; May 12.

Mayer, Seymour W., Van Nuys, and E. T. Lowe, Beverly Hills, Calif., said Lowe assignor to said Mayer. Display device. 2,282,872; May 12.

Mayne, Robert, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Wheel structure. 2,282,589; May 12.

McCabe, John J. (See Te Pas, E. J., Bottinelli and McCabe.)

McCaslin, Clifford H., Oakland, Calif. Collapsible table. 2,282,665; May 12.

McClure, Roger M., Delaware, Okla. Check valve for well pumps. 2,283,078; May 12.

McConechy, John H. G., Swarthmore, assignor to Sun Shipbuilding & Dry Dock Company, Chester, Pa. Incinerator. 2,282,370; May 12.

McCue, William J., assignor to Industrial Patents Corporation, Chicago, Ill. Sausage linking. 2,282,666; May 12.

McDannald, Morris. (See Smith, R. W., and McDannald.)

McDermott, Henry J., Prospect Park, Pa., assignor to American Viscose Corporation, Wilmington, Del. Cake holder. 2,283,079; May 12.

McEwen, Robert L. (See Kauffmann, H. O., and McEwen.)

McFarlane, Maynard D., Hollywood, Calif. Translation of modulated electric current into a series of impulses. 2,283,157; May 12.

McGill, John H., Manchester, England, and H. J. Tattersall, Ardrossan, Scotland, assignors to Imperial Chemical Industries Limited. Coated sheet materials. 2,282,371; May 12.

McGuire, Milton R., Hartford, Conn. Concrete pipe making machine. 2,282,667; May 12.

McLaughlin, F. L., et al. (See Burke, James P., assignor.)

McNally, James G. (See Dickey, J. B., and McNally.)

Mead Corporation, The. (See Hochwalt, C. A., and Plunguian, assignors.)

Meissner, Oswald. (See Schneider, W., Brodersen, Meissner, and Coenen.)

Mendelson, Charles, New Rochelle, N. Y. Washing and scrubbing apparatus. 2,283,011; May 12.

Merco-Nordstrom Valve Company. (See MacClatchie, John W., assignor.)

Merco Nordstrom Valve Company. (See Nordstrom, Sven J., assignor.)

Merrick, Wallace M., Los Angeles, Calif. Butter slicing and dispensing machine. 2,282,735; May 12.

Merrill, E. R., Spring Company, The. (See Foster, William H., assignor.)

Mersereau, Everard C., assignor to National Brake Company, Buffalo, N. Y. Hand brake mechanism. 2,282,736; May 12.

Methven, Clyde L., St. Paul, Minn. Expansion joint construction. 2,282,335; May 12.

Metschel, Emil, Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Directional antenna. 2,283,081; May 12.

Metsger, William J., assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Car coupler. 2,283,080; May 12.

Meyer, Fritz, assignor to the firm Bunhler Brothers, Uzwil, Switzerland. Conveyer system for unloading ships. 2,282,978; May 12.

Meyer, Maximilian C., Brooklyn, N. Y. Spring-wire earring, ring and the like. 2,282,336; May 12.

Michel, Mathias, Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Light responsive control system. 2,283,121; May 12.

Micro Switch Corporation. (See Whitlock, Fred W., assignor.)

Mies, Ludwig, and W. Peterhans, Chicago, Ill. Apparatus for the production of dot-composed or screened negatives. 2,282,337; May 12.

Miether, George, Odessa, Tex. Pipe slip. 2,283,082; May 12.

Millar, John R., Reno, Nev., assignor to National Automotive Fibres, Inc., Detroit, Mich. Making upholstery. 2,282,425; May 12.

Miller Company, The. (See De Lancey, Ralph W., assignor.)

Miller, Max C., Cumberland, R. I. Knitting machine. 2,282,668; May 12.

Miller, Stephen, New York, N. Y. Glider. 2,282,669; May 12.

Miller, William, Corporation. (See Miller, William W., assignor.)

Miller, William J. Swissvale, Pa. Apparatus for feeding clay to molds in the manufacture of pottery ware. 2,282,372; May 12.

Miller, William W., Pasadena, Calif., assignor to William Miller Corporation. Galvanometer. 2,282,590; May 12.

Mills, Albert W., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Printing transferring machine. 2,282,737; May 12.

Minkler, William A., Philadelphia, Pa., and L. G. Huggins, Springfield, Mass., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Air conditioning apparatus. 2,282,373; May 12.

Minneapolis-Honeywell Regulator Company. (See Matthews, Howard D., assignor.)

Minneapolis-Honeywell Regulator Company. (See Newton, Alwin B., assignor.)

Miremont, Pierre G., Bayonne, France. Toy for sports. 2,282,766; May 12.

Mitchell, Robert B., assignor to Harnischfeger Corporation, Milwaukee, Wis. Flame hardening process and apparatus. 2,282,670; May 12.

Mitzel, John P., Derita, assignor to Larkwood Silk Hosiery Mills, Inc., Charlotte, N. C. Stocking. 2,282,873; May 12.

Miyamoto, Katsuhei, New York, N. Y., assignor, by mesne assignments, to Frederick Stearns and Company, Detroit, Mich. Process of isolating enzymes. 2,282,492; May 12.

Mize, Robert V., administrator. (See Torrence, Homer R.)

Modern Equipment Corporation. (See Sandberg, Oscar, assignor.)

Moloney, Raymond T. (See Breitenstein, Charles T., assignor.)

Moody, George E., Los Angeles, Calif. Antisiphonic valve. 2,282,338; May 12.

Moore & Munger. (See Padgett, Frederick W., assignor.)

Moore, Harold G., Wesleyville, Pa., and F. Felix, Schenectady, N. Y., assignors to General Electric Company. Power system including rotary transformers. 2,282,874; May 12.

Moore, John B., Riverhead, N. Y., assignor to Radio Corporation of America. Selector for diversity receiving system. 2,282,526; May 12.

Moore, William D., assignor to American Cast Iron Pipe Company, Birmingham, Ala. Screw gland joint. 2,282,738; May 12.

Morgan, John S., Jr., Hermosa Beach, and J. D. Spalding, Los Angeles, Calif., assignors to The National Supply Company, Pittsburgh, Pa. Rotary machine. 2,282,718; May 12.

Morrison, John O., Chatham, and B. H. Perkins, Jersey City, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Pigment treatment. 2,282,303; May 12.

Morrison, John O., Chatham, and B. H. Perkins, Jersey City, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Pigment transfer. 2,282,527; May 12.

Motte, Lewis B., Savannah, Ga. Meat grinder. 2,282,671; May 12.

Mueller, Adolf G., Stratford, Conn., assignor to General Electric Company. Lamp socket. 2,282,875; May 12.

Mueller, Emil G., Churchill Borough, assignor to The American Brake Company, Swissvale, Pa. Brake rigging. 2,282,374; May 12.

Munson, Lowell F., St. Paul, Minn., assignor to Fairbanks, Morse & Co., Chicago, Ill. Locating device for use with recording scales. 2,283,149; May 12.

Murch, John H., East Orange, N. J., assignor to American Can Company, New York, N. Y. Electric welding. 2,282,339; May 12.

Murphy, Harold P., Ridley Park, assignor to The Electric Storage Battery Company, Philadelphia, Pa. Counterelectromotive force cell. 2,282,979; May 12.

Murphy, Howard J., Greenwood, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Nut device. 2,283,122; May 12.

Musher Foundation Incorporated. (See Musher, Sidney, assignor.)

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Method of producing glycerine oil. 2,282,779; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Stabilized olive oil blends with unusual taste and fragance. 2,282,780; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Imitation olive oil. 2,282,781; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Enhanced olive flavored oil. 2,282,782; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Exploding vegetative materials. 2,282,783; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Exploded antioxygenic food composition. 2,282,784; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Stabilized emulsions of vitamin containing vegetative materials in molasses. 2,282,785; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Stabilization of animal meals. 2,282,786; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Stabilization of food compositions. 2,282,787; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Dry stable food compositions. 2,282,788; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Stabilized food product. 2,282,789; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Stabilization of glyceride oils. 2,282,790; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Stabilization of fish and similar oils. 2,282,791; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Stabilization of glyceride oils. 2,282,792; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Food. 2,282,793; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Stabilization of dairy compositions. 2,282,794; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Vitamin product. 2,282,795; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporation, New York, N. Y. Vitamin product. 2,282,796; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Manufacture of cereal germ oil. 2,282,797; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Stabilization of foods and oils. 2,282,798; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Stabilization of dairy products. 2,282,799; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Stabilization against oxidation by use of caramelized milk solids. 2,282,800; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Stabilization of fruits and vegetables. 2,282,801; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Treatment of coffee beans. 2,282,802; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Stabilized heat reacted cereal flakes. 2,282,803; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Heat treated stabilized flaked cereal germ preparation. 2,282,804; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Stabilized combinations of rice and similar polishings and whey or similar milk-solids-not-fat. 2,282,805; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Treatment of oils. 2,282,806; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Treatment of rendered glyceride oils. 2,282,807; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Stabilization of essential oils. 2,282,808; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Stabilization of oils. 2,282,809; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Stabilizing oils. 2,282,810; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Preservation of oils. 2,282,811; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Stabilization of oils. 2,282,812; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Stabilized oil. 2,282,813; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Stabilization of oils. 2,282,814; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Stabilization of oils. 2,282,815; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Retrding decomposition of oils. 2,282,816; Mar. 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Treatment of refined wet processed corn germ oil. 2,282,817; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Stabilized food composition. 2,282,818; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Treatment of hydrogenated oils. 2,282,819; May 12.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Peanut and soya bean oil. 2,282,820; May 12.

Myrtle Knitting Mills, Incorporated. (See Rosenstein, Nathan M., assignor.)

Napier, D., & Son Limited. (See Ramsay, Frank R. F., assignor.)

National Automotive Fibres, Inc. (See Millar, John R., assignor.)

National Brake Company. (See Mesereau, Everhard C., assignor.)

National Bread Wrapping Machine Co. (See Hoppe, William, assignor.)

National Carbon Company, Inc. (See Simon, R. W., and Lozier, assignors.)

National Fitch Corporation. (See Fitch, Benjamin F., assignor.)

National Lock Washer Company, The. (See Schunk, Joseph, assignor.)

National Malleable and Steel Castings Company. (See Metzger, William J., assignor.)

National Supply Company, The. (See Archer, Merton T., assignor.)

National Supply Company, The. (See Morgan, J. S., Jr., and Spalding, assignors.)

National Supply Company, The. (See Spalding, John D., assignor.)

National Supply Company, The. (See Timbs, Edward, assignor.)

National Supply Company, The. (See Young, Forrest J., assignor.)

Neal, Younger, assignor to The Pure Oil Company, Chicago, Ill. Fluid indicator and metering device. 2,282,528; May 12.

Nebel, Raymond J. (See Frostad, G. O., and Nebel.)

Nelson, Aaron A., Little Falls, Minn. Lifesaving apparatus for boats. 2,282,821; May 12.

Nelson, Vern, Bellingham, Wash. Sanitary door mat. 2,282,672; May 12.

Nestor Johnson Manufacturing Company. (See Smith, Albert W., assignor.)

Neubauer, Alois, Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Lorenzweg, Germany. Insulator. 2,283,083; May 12.

New England Bedding Company. (See Feldman, Jacob C., assignor.)

Newkirk, Daniel L., assignor to Ford Motor Company, Dearborn, Mich. Gas holder lubricating device. 2,283,084; May 12.

Newman, David F., Rockville Centre, N. Y., assignor to Trans-Lux Corporation, New York, N. Y. Projection screen. 2,282,876; May 12.

Newman, Max M., and M. Opper, New York, N. Y., assignors to American Machine & Foundry Company. Tie sewing machine. 2,282,877; May 12.

Newton, Alwin B., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Air conditioning system. 2,282,878; May 12.

Newton, Alwin B., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Air conditioning. 2,283,085; May 12.

Nichols, Wallace H. (See Rand, J. H., Jr., and Nichols.)

Nickel, Theodor. (See Hagen, W., and Nickel.)

Nickels, Joseph E. (See Stevens, D. R., and Nickels.)

Nielsen, Peter S., Bismarck, N. Dak. Vehicle traffic signal. 2,282,739; May 12.

Nightingale, Edward, Haysville, Pa. Bending apparatus. 2,283,012; May 12.

Noack, Walter G., assignor to Aktiengesellschaft Brown, Boveri & Cie. Baden, Switzerland. Heat exchange system. 2,282,740; May 12.

Nolte, Elmer. (See Scudder, M., Nolte, and Latina.)

Nordstrom, Sven J., Lafayette, Calif., assignor to Merco Nordstrom Valve Company, Pittsburgh, Pa. Lubricated valve. 2,282,493; May 12.

Nordstrom, Walfrid. (See Johanson, C. H., and Nordstrom.)

Norris, Rollin H., Schenectady, N. Y., assignor to General Electric Company. Cooling unit. 2,282,879; May 12.

Norton Company. (See Van der Pyl, Edward, assignor.)

Null, Fay E., Ridgefield, N. J. Spark gap device. 2,283,013; May 12.

O-Cedar Corp'n. (See Bailey, Warren G., assignor.)

Oergel, Charles T., Erie, Pa., assignor to General Electric Company. Refrigerating system. 2,282,880; May 12.

Ohio Crankshaft Company, The. (See Denneen, F. S., and Dunn, assignors.)

Oil Well Manufacturing Corporation. (See White, C., and Graham, assignors.)

Okonite Company, The. (See Bennett, Charles E., assignor.)

Oliphant, Charles W., Tulsa, Okla. Method and apparatus for analysis. 2,283,086; May 12.

Onksen, George W., Jr. (See Faige, R. N., and Onksen, Jr.)

Opper, Morris. (See Newman, M. M., and Opper.)

Orr, Palmer, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Transmission. 2,282,591; May 12.

Osborne, James L., Lyndhurst, N. J., assignor to Revlon Products Corporation, New York, N. Y. Cap brush for liquid-containing bottles. 2,283,123; May 12.

Ostrow, Stanley F., Momence, Ill. High-chair device. 2,282,881; May 12.

Outboard, Marine & Manufacturing Company. (See Conover, Warren C., assignor.)

Outboard, Marine and Manufacturing Company. (See Taylor, Clifford N., assignor.)

Oxweld Acetylene Company. (See Deck, Elbe W., assignor.)

Padgett, Frederick W., Jackson Heights, N. Y., assignor to Moore & Munger, Plainfield, N. J. Wax sealing composition. 2,282,375; May 12.

Palmer, Charles R., Glen Acres, Ohio. Thermostat. 2,282,426; May 12.

Parker, Allan E., Yonkers, N. Y., assignor of one-half to Electrical Testing Laboratories, and one-half to Food Research Laboratories, Inc. Apparatus for measurement. 2,282,741; May 12.

Patnode, Winton I., Schenectady, N. Y., assignor to General Electric Company. Gel composition and method of preparation. 2,282,882; May 12.

Payne, Oscar V., Leicester, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Yarn winding mechanism. 2,283,087; May 12.

Pearson, Gerald L. (See Dearborn, E. F., and Pearson.)

Peddle, Vincent J. (See Rosenthal, R. E., Sternfield and Peddle.)

Pedersen, Charles J. (See Downing, F. B., and Pedersen.)

Pennsylvania Company for Insurances on Lives and Granting Annuities, The. (See Wood, Joseph D., assignor.)

Pennsylvania Railroad Company, The. (See Billstein, Arthur E. F., assignor.)

Pennsylvania Salt Manufacturing Company, The. (See LeBar, W. D., and Cushing, assignors.)

Perkins, Ben H. (See Morrison, J. O., and Perkins.)

Pervier, William A., Watertown, Mass. Wrench. 2,282,743; May 12.

Pestarini, Joseph M., Turin, Italy. Power system including rotary transformers. 2,282,822; May 12.

Peterhans, Walter. (See Mies, L., and Peterhans.)

Peterson, Carl E., Montclair, assignor to Eastern Tool & Mfg. Co., Bloomfield, N. J. Filter holder. 2,282,767; May 12.

Peterson, Emil T., St. Paul, Minn. Garden tool. 2,282,673; May 12.

Peterson, Eugene F. (See Steiner, H. C., and Peterson.)

Peterson, Gustav, Malden on Hudson, N. Y. Screw propeller. 2,283,088; May 12.

Peterson, Victor W., and O. J. Maha, assignors to Hannifin Manufacturing Co., Chicago, Ill. Piston operated press and the like. 2,283,124; May 12.

Petrolite Corporation, Ltd. (See De Groote, M., and Keiser, assignors.)

Pfauser, Edward M., Elm Grove, assignor to Blackhawk Mfg. Co., Milwaukee, Wis. Hydraulic wedge assembly. 2,283,089; May 12.

Phillips, Bernard C., assignor to The Tillotson Manufacturing Company, Toledo, Ohio. Carburetor choke control. 2,282,376; May 12.

Phillips, Elijah E. (See Athon, W. C., and Phillips.)

Phillips Petroleum Company. (See Drennan, Harry E., assignor.)

Pickett, Frank M., Darien, Conn., assignor to Remington Rand Inc., Buffalo, N. Y. Copyholder for document photographing cameras. 2,282,768; May 12.

Pieplow, Hanswerner, Berlin, Germany, assignor to General Electric Company. Relaxation oscillator. 2,282,340; May 12.

Pierce, Erold F., Pines Lake, N. J., assignor to Wright Aeronautical Corporation. Hydraulic throttle control. 2,282,529; May 12.

Pierson, Oscar E., Brooklyn, M. D. Adams, and W. S. W. Edgar, Jr., assignors to The Western Union Telegraph Company, New York, N. Y. Multichannel telegraph system. 2,282,341; May 12.

Pigott, Reginald J. S., assignor to Gulf Research & Development Company, Pittsburgh, Pa. Chuck. 2,282,674; May 12.

Pigott, Reginald J. S., assignor to Gulf Research & Development Company, Pittsburgh, Pa. Controller for flowing gases. 2,282,675; May 12.

Pigott, Reginald J. S., assignor to Gulf Research & Development Company, Pittsburgh, Pa. Chuck. 2,282,676; May 12.

Pines, Herman. (See Ipatieff, V., and Pines.)

Piron, Emil H., New York, N. Y., assignor to Transit Research Corporation. Body construction. 2,282,823; May 12.

Placco, Oscar F., Cranston, R. I., assignor to Coro-Gram, Inc., New York, N. Y. Initial holder. 2,282,606; May 12.

Place, Willard P., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Control means for railway train communication apparatus. 2,282,377; May 12.

Plass, Robert H., Upper Montclair, N. J. Apparatus for cleaning and sorting fur bearing skins. 2,282,530; May 12.

Plax Corporation. (See Kopitke, William H., assignor.)

Plunguian, Mark. (See Hochwalt, C. A., and Plunguian.)

Pneumatic Scale Corporation. (See Howard, Stanley R., assignor.)

Pöhls, Paul, Wuppertal-Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Sulphonic acid amide compounds and manufacture thereof. 2,282,769; May 12.

Poirette Corsets, Inc. (See Robbins, Philip H., assignor.)

Policy Vending Corporation. (See Callahan, John T., Jr., assignor.)

Polkinghorn, Frank A., Bloomfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Volume control circuit. 2,282,744; May 12.

Pond, Leander N. (See Gray, D. E., Pond, and Weber.)

Poole, Clarence F., Evanston, assignor to Goodman Manufacturing Company, Chicago, Ill. Mucking machine. 2,282,378; May 12.

Porcelain Products, Inc. (See Barnitz, Richard W., assignor.)

Porter, Albert N., assignor to J. F. Darby, Tulsa, Okla. Rocker bearing. 2,282,607; May 12.

Porter, Everett M. (See Githens, O. W., Kende, and Porter.)

Potter, Jack A., Peoria, Ill. Illumination control for vision-test charts. 2,282,494; May 12.

Powell, Leonard A., Hyde Park, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Locking snap fastener. 2,283,125; May 12.

Power, Donnell W., New Providence, N. J., assignor to Radio Corporation of America. Composite glass and metal envelope. 2,283,090; May 12.

Powers, Frank T., Glen Cove, N. Y. Process camera. 2,282,427; May 12.

Powers, James H., Fort Wayne, Ind., assignor to General Electric Company. Antifriction bearing. 2,282,883; May 12.

Poysa, John W., Los Angeles, Calif. Base for machine or other light gun. 2,282,742; May 12.

Preble, Paul H., Concordia, Kans., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,282,342; May 12.

Preis, H. P., Engraving Machine Co. (See Hoffmann, Jacob A., assignor.)

Press Wireless, Inc. (See Bernstein, Philip, assignor.)

Pressurelube, Inc. (See Russell, John, assignor.)

Preston, Frank G., Tacoma, Wash. Vehicle driven boat. 2,282,745; May 12.

Primm, Joseph P., assignor of one-half to Rome Hosiery Mills, Rome, Ga. Knitting machine needle. 2,282,824; May 12.

Proctor, John R., assignor to Atlas Steel Barrel Corporation, Bayonne, N. J. Seal for bung rings. 2,282,495; May 12.

Production Plating Works, Inc. (See Enghauser, Winford L., assignor.)

Prosperity Company, Inc., The. (See Henrici, Fritz W. A., assignor.)

Prutton, Carl F., Cleveland Heights, assignor, by mesne assignments, to The Lubri-Zol Development Corporation, Cleveland, Ohio. Lubricating composition. 2,282,343; May 12.

Puffer, Samuel R., Lynnfield Center, Mass., assignor to General Electric Company. Valve support. 2,282,825; May 12.

Pure Oil Company, The. (See Neal, Younger, assignor.)

Pusinelli, Eric. (See Serr, William F., assignor.)

Putterman, Benjamin, Brooklyn, N. Y., assignor to Yankee Metal Products Corp., Norwalk, Conn. Clamp device. 2,282,746; May 12.

Quarnstrom, Bert L., et al. (See Burke, James P., assignor.)

Quirk, Edward, Great Crosby, Liverpool, England. Apparatus for displaying foodstuffs and other articles. 2,282,592; May 12.

Radio Corporation of America. (See Artzt, Maurice, assignor.)

Radio Corporation of America. (See Barber, Alfred W., assignor.)

Radio Corporation of America. (See Batsel, Cecil N., assignor.)

Radio Corporation of America. (See Fields, James L., assignor.)

Radio Corporation of America. (See Griffith, John C., assignor.)

Radio Corporation of America. (See Hansell, Clarence W., assignor.)

Radio Corporation of America. (See Harris, William A., assignor.)

Radio Corporation of America. (See Haynes, Robert L., assignor.)

Radio Corporation of America. (See Koch, Winfield E., assignor.)
Radio Corporation of America. (See Landle, Ernest S., assignor.)
Radio Corporation of America. (See Moore, John B., assignor.)
Radio Corporation of America. (See Power, Donnell W., assignor.)
Radio Corporation of America. (See Shepard, Francis H., Jr., assignor.)
Radio Corporation of America. (See Thomas, Harry E., assignor.)
Radio Corporation of America. (See Thompson, Leland E., assignor.)
Radio Corporation of America. (See van Lammeren, J. A., and Van der Mey, assignors.)
Radio Corporation of America. (See Wiest, Edward J., assignor.)
Ragsdale, Edward T., and E. F. Reynolds, Flint, assignors to General Motors Corporation, Detroit, Mich. Hood hinge and latch mechanism. 2,282,884; May 12.
Ramsay, Frank R. F., assignor to D. Napier & Son Limited, London, England. Electric switch for controlling a number of magneto circuits. 2,282,747; May 12.
Rand, James H., Jr., Stamford, Conn., and W. H. Nichols, Port Washington, assignors, by mesne assignments, to Remington Rand Inc., Buffalo, N. Y. Dry shaver. 2,282,748; May 12.
Ransome Concrete Machinery Company. (See Faber, John P., assignor.)
Raritan Bay Holding Company. (See Yates, Charles, assignor.)
Ray, James L., Elm Grove, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Turbine nozzle. 2,283,126; May 12.
Raymond, Antonin, New York, N. Y. Window construction. 2,282,885; May 12.
Rayton, Wilbur B., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Optical system. 2,282,677; May 12.
Rawlings Manufacturing Company. (See Scudder, M., Nolte, and Latina, assignors.)
Reda Pump Company. (See Arutunoff, Armais, assignor.)
Redler Conveyer Company. (See Sinden, Alfred D., assignor.)
Reid, Frederick G., Toronto, Ontario, assignor to Dunlop Tire and Rubber Goods Co., Limited, Montreal, Canada. Apparatus for tensioning cord. 2,283,014; May 12.
Reid, William L. (See Hawkins, H., and Reid.)
Reilly, Alfred F., North Attleboro, Mass. Bracelet or the like. 2,283,015; May 12.
Resinous Products & Chemical Company, The. (See Bruson, Herman A., assignor.)
Reisinger, Kurt. (See Smeykal, K., and Reisinger.)
Remington Rand Inc. (See Pickett, Frank M., assignor.)
Remington Rand Inc. (See Rand, J. H., Jr., and Nichols, assignors.)
Rempel, Dietrich G., assignor to The Sun Rubber Company, Barberton, Ohio. Hoist. 2,282,608; May 12.
Rempel, Dietrich G., assignor to The Sun Rubber Company, Barberton, Ohio. Apparatus for stenciling articles. 2,282,609; May 12.
Revlon Products Corporation. (See Osborne, James L., assignor.)
Reynolds, Edward F. (See Ragsdale, E. T., and Reynolds.)
Rheingans, William J., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukeee, Wis. Hydraulic turbine governor. 2,283,127; May 12.
Richardson, Paul C., assignor to Baldwin Rubber Company, Pontiac, Mich. Apparatus for manufacturing contoured sheets and the like. 2,282,593; May 12.
Rigandi, Joseph Ruig, Westerleigh, N. Y. Attachment for firearms. 2,282,428; May 12.
Ring, Joseph J., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Turbine lubrication. 2,283,128; May 12.
Rippingille, Edward V., assignor to General Motors Corporation, Detroit, Mich. Fatigue testing machine. 2,282,826; May 12.
Rival Manufacturing Company, et al. (See Kuhlman, O. E., and Majewski, Jr., assignors.)
Robbins, Philip H., assignor to Poirette Corsets, Inc., New York, N. Y. Foundation garment or the like. 2,283,091; May 12.
Roberts, Frederick W., Lockport, N. Y. Wood grinding machine. 2,282,887; May 12.
Roebling's, John A., Sons Company. (See Sunderland, Charles C., assignor.)
Rogers, Maurice A. T., and W. A. Sexton, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. New insoluble monazo compounds. 2,282,379; May 12.
Röhm & Haas Company. (See Bock, L. H., and Bruson, assignors.)
Röhm & Haas Company. (See Bock, Louis H., assignor.)
Röhm & Haas Company. (See Bruson, Herman A., assignor.)
Röhm & Haas Company. (See Hurd, Loren C., assignor.)
Rome Hosiery Mills. (See Primm, Joseph P., assignor.)
Root, Charles S., Stratford, Conn., assignor to General Electric Company. Feed-back circuit. 2,282,380; May 12.
Root, Charles S., Stratford, Conn., assignor to General Electric Company. Amplifier. 2,282,381; May 12.
Root, Charles S., Stratford, Conn., assignor to General Electric Company. Amplifier system. 2,282,382; May 12.
Root, Charles S., Bridgeport, Conn., assignor to General Electric Company. Audio frequency amplifier. 2,282,383; May 12.
Root Manufacturing Company, The. (See Root, Ralph R., assignor.)
Root, Ralph R., Lakewood, assignor to The Root Manufacturing Company, Cleveland, Ohio. Nozzle for dusting machines. 2,282,828; May 12.
Rosberg, Nels H., Pasadena, assignor to California Consumers Corporation, Los Angeles, Calif. Refrigerating appaartus and freezing liquid food products. 2,282,544; May 12.
Roseman, Richard J., Newark, N. J. Adjustable fastener. 2,282,410; May 12.
Rosan, Louis, Jacksonville, Fla. Fishing outfit. 2,283,092; May 12.
Rosenstein, Nathan M., West Hartford, Conn., assignor to Myrtle Knitting Mills, Incorporated. Garment pocket and making same. 2,282,545; May 12.
Rosenthal, Robert E., G. L. Sternfield, and V. J. Peddle, assignors to Continental Foods, Inc., Chicago, Ill. Filling spout. 2,283,093; May 12.
Rothe, Horst, Berlin-Charlottenburg, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Receiver and amplifier circuits. 2,282,886; May 12.
Rotherick, Howard W., Chicago, Ill. Carbon and copy sheet unit. 2,282,610; May 12.
Rothrock, Henry S., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Resinous product and making. 2,282,827; May 12.
Roubal, Alexander J., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Rotary clinker cooler. 2,282,129; May 12.
Rover Company, The. (See Swaine, John, assignor.)
Royal, Thomas M., & Company. (See Kneutter, Paul, assignor.)
Ruben, Samuel, New Rochelle, N. Y. Resistance device. 2,282,344; May 12.
Ruskin, Morris, Sea Point, Capetown, Cape Province, Union of South Africa. Buckle. 2,283,094; May 12.
Russell, James M. (See Hoffman, E. L., and Russell.)
Russell, John, Danbury, Conn., assignor to Pressurelube, Inc., Dover, Del. Lubrication pump. 2,282,429; May 12.
Russell, John D., Sugarcreek Township, Venango County, Pa., assignor, by mesne assignments, to Joy Manufacturing Company, Franklin, Pa. Mining machine. 2,282,749; May 12.
Russo, Eugene, Hollis, N. Y. Waxing device. 2,282,888; May 12.
Rutgerswerke-Aktiengesellschaft. (See Dietzel, Otto E., assignor.)
Ruthruff, Robert F. (See Sullivan, F. W., Jr., and Ruthruff.)
Ruths, Robert J., Baltimore, Md. Bearing structure. 2,282,345; May 12.
Ryan, August W., Zanesville, assignor to The American Rolling Mill Company, Middletown, Ohio. Handling silicon steel strip. 2,282,611; May 12.
Ryan, William, Chicago, Ill. Furnace. 2,282,496; May 12.
Ryland, Lloyd B. (See Tamele, M., and Ryland.)
Ryland, Lloyd B. (See Tamele, M., Ryland, and Irvine.)
Saacke, Roland G., et al. (See Guy Norman L., assignor.)
Sabol, Ernest J., Edgewood, Pa. Rail bond terminal. 2,283,095; May 12.
Sadler, John E., assignor to The Duplex Envelope Company, Inc., Richmond, Va. Counting hand stamp. 2,283,130; May 12.
Safety Car Heating and Lighting Company. (See Creveling, John L., assignor.)
Sandberg, Oscar, assignor to Modern Equipment Corporation, Defiance, Ohio. Wrapping paper control mechanism. 2,283,096; May 12.
Sandberg, Oscar, assignor to Modern Equipment Corporation, Defiance, Ohio. Wrapping machine. 2,283,097; May 12.
Sanosone Corporation. (See Busch, Albert A., assignor.)
Sarver, Emmett F., Kansas City, Mo., assignor of two-thirds to A. D. Barr, Lakewood, Ohio. Apparatus for removing foreign particles from air or similar gaseous mediums. 2,282,770; May 12.
Schenck, Le Roy, East Orange, N. J. Flush wall mounting for radio units. 2,282,384; May 12.
Schichtel, Georg, Leipzig, and F. Jaburek, Radenthein, Germany, assignors, by mesne assignments, to The Anglo California National Bank of San Francisco, San Francisco, Calif., as trustee. Production of refined magnesium and magnesium alloys. 2,283,099; May 12.
Schlack, Paul, Berlin-Treptow, Germany, assignor, by mesne assignments, to E. I. du Pont de Nemours and Company, Wilmington, Del. Producing oximes. 2,283,150; May 12.
Schneider, Fred B., Wesleyville, Pa., assignor to General Electric Company. Flow control device. 2,282,889; May 12.

Schneider, Wilhelm, and R. Brodersen, Dessau, and O. Meissner and M. Coenen, Uerdingen, Germany, assignors to General Aniline & Film Corporation, New York, N. Y. Antihalo coating for photographic material. 2,282,890; May 12.
Schroeder, Charles, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Motor driven trolley. 2,282,985; May 12.
Schrumpf, Max, Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. High frequency stage. 2,283,016; May 12.
Schubert, Minna R., assignor to Le Monde Corset Company, Saginaw, Mich. Combination brassière and foundation garment. 2,283,144; May 12.
Schueler, Fred C., Andover, assignor to J. W. Bolton & Sons, Inc., Lawrence, Mass. Process of making plug jackets. 2,282,750; May 12.
Schuessler, L. Ray. (See Hamilton, F. C., and Landholt, assignor.)
Schultz, Arthur B., Berkley, assignor to Kermath Manufacturing Company, Detroit, Mich. Marine power transmission system. 2,282,612; May 12.
Schultz, William F., Ripon, Wis. Float controlled meter. 2,282,497; May 12.
Schunk, Joseph, assignor to The National Lock Washer Company, Newark, N. J. Vehicle window sill construction. 2,282,531; May 12.
Schurman, John, Highland Park, Mich., assignor to Albert Kahn, Inc. Building construction. 2,282,829; May 12.
Schwalbe, Lester E., Wauwatosa, Wis. Pallet for hollow block molding machines. 2,282,891; May 12.
Schwarcman, Alexander, assignor to Spencer Kellogg and Sons, Inc., Buffalo, N. Y. Dehydrating castor oil. 2,282,892; May 12.
Schwartz, Roman, Berlin-Wilmersdorf, assignor to Fides Gesellschaft fur die Verwaltung und Verwertung von gewerblichen-Schutzrechten m. b. H., Berlin, Germany. Telephone system. 2,282,893; May 12.
Schwimmer, Oscar, Los Angeles, Calif. Apparatus for cutting ice. 2,282,546; May 12.
Scott, Bessie L., Altus, Okla., assignor of one-half to Leona V. Curtis, Amarillo, Tex. Apparatus for forming ornamental trimmings. 2,283,017; May 12.
Scudder, Mason, Clayton, E. Nolte, St. Louis, Mo., and H. B. Latina, East St. Louis, Ill., assignors to Rawlings Manufacturing Company, St. Louis, Mo. Protective helmets. 2,282,830; May 12.
Seltzer, Ervin, Philadelphia, Pa., assignor to Swan Fastener Corporation, New York, N. Y. Separable fastener. 2,283,018; May 12.
Serr, William F., assignor to Eric Pusinelli, New York, N. Y. Egg cooker. 2,283,019; May 12.
Servel, Inc. (See Taylor, Robert S., assignor.)
Servel, Inc. (See Thomas A. R., and Anderson, Jr., assignors.)
Sexton, Wilfred A. (See Rogers, M. A. T., and Sexton.)
Shaler, Jessie L., and H. M. Hess, Winona, Minn. Scalp protector. 2,282,498; May 12.
Shann, Oscar A., Bayside, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Hand telephone. 2,283,098; May 12.
Shaw, Melvin C., Wauwatosa, and G. L. Kollberg, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Centrifugal blower. 2,283,131; May 12.
Shawhan, Sam F., assignor to Carrier Corporation, Syracuse, N. Y. Refrigeration control. 2,282,385; May 12.
Sheets, Barton R., Denver, Colo., assignor to Gardner-Denver Company, Quincy, Ill. Centralizing and locking means for loaders. 2,282,613; May 12.
Sheldon, Lucian A., Schenectady, N. Y., assignor to General Electric Company. Elastic fluid turbine. 2,282,894; May 12.
Shell Development Company. (See Engs, W., and De Jong, assignors.)
Shell Development Company. (See Tamele, M., and Ryland, assignors.)
Shell Development Company. (See Tamele, M., Ryland, and Irvine, assignors.)
Shell Development Company. (See Van Ess, Paul R., assignor.)
Shenk, Robert H., assignor to J. A. Zurn Manufacturing Company, Erie, Pa. Back water valve. 2,282,532; May 12.
Shepard, Francis H., Jr., Merchantville, N. J., assignor to Radio Corporation of America. Relaxation oscillation generator. 2,282,895; May 12.
Shores, Harry C., Maplewood, Mo. Pressure regulating attachment for liquid containers. 2,283,100; May 12.
Shutts, Leroy W., Lockport, assignor to General Motors Corporation, Detroit, Mich. Making multiple window-pane units. 2,282,831; May 12.
Siemens & Halske Aktiengesellschaft. (See Wolf, Fritz, assignor.)
Simas, Charles P., Taunton, Mass. Device for hair waving. 2,282,896; May 12.
Simon, Russell W., and W. W. Lozier, Fostoria, Ohio, assignors to National Carbon Company, Inc. Direct current negative carbon electrode. 2,282,533; May 12.
Sinden, Alfred D., Aurora, Ill., assignor to Redler Conveyer Company, Quincy, Mass. Conveyer. 2,282,534; May 12.
Sinninger, Dwight V., assignor to Johnson Laboratories, Inc., Chicago, Ill. Resonant absorption reducing device. 2,282,386; May 12.
Slepack, Moses J. (See Sohn, Samuel L., assignor.)
Slye, Edward A., East Hartford, assignor to Veeder-Root Incorporated, Hartford, Conn. Registering mechanism. 2,282,678; May 12.
Smeykal, Karl, and K. Reisinger, Leuna, Germany, assignors, by mesne assignments, to William E. Currie, New York, N. Y. Depolymerization of high boiling unsaturated hydrocarbons. 2,282,499; May 12.
Smith, Albert W., Milwaukee, Wis., assignor to Nestor Manufacturing Company, Chicago, Ill. Display device. 2,282,430; May 12.
Smith, Alexander, & Sons, Carpet Company. (See Allison, Robert C., assignor.)
Smith, Charles J., Albany, N. Y. Apparatus for removing grass, weeds, and other matter from the ground. 2,282,679; May 12.
Smith, F. Morse, et al. (See Fitler, L. D., Jr., and Fenss, assignors.)
Smith, Kenneth, Lenexa, Kans. Shock absorber golf club. 2,282,614; May 12.
Smith, Ray W., and M. McDannald, Houston, Tex. Orienting device and method. 2,282,431; May 12.
Smith, S. K., Co. (See Krause, Frederick, assignor.)
Smith, Walter L., Likely, Calif. Portable press drill. 2,282,535; May 12.
Snader, Ira J., and J. F. Earp, Jr., Detroit, Mich., assignors to The American Paper Bottle Company, Toledo, Ohio. Apparatus for coating containers. 2,282,897; May 12.
Snader, Ira J. and J. F. Earp, Jr., Detroit, Mich., assignors to The American Paper Bottle Company, Toledo, Ohio. Coating containers. 2,282,898; May 12.
Snader, Ira J., and J. F. Earp, Jr., Detroit, Mich., assignors to The American Paper Bottle Company, Toledo, Ohio. Apparatus for cooling freshly coated articles. 2,282,899; May 12.
Snook, Ray, Windom, Minn. Rotary snow plow. 2,283,101; May 12.
Snyder, Gilbert J., assignor to Mastic Asphalt Corporation, South Bend, Ind. Building covering member. 2,282,432; May 12.
Societe "Goodrich," S. A., Bois-Colombes (Seine). (See Boyer, R., Marin and Gaestel, assignors.)
Societe "Rhodiaceta." (See Bludow, Pierre, assignor.)
Socony-Vacuum Oil Company et al. (See Fischer, H. G. M., and James, assignors.)
Soderquist, John E., Ferron, Utah. Tent. 2,282,433; May 12.
Sohn, Samuel L., assignor of one-half to M. J. Slepack, New York, N. Y. Cooking device. 2,282,500; May 12.
Sonne, Frederick T., Golf, assignor to Chicago Aerial Survey Company, Chicago, Ill. Gun camera. 2,282,680; May 12.
Spalding, John D., Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa. Brake for draw works. 2,282,615; May 12.
Spalding, John D., Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa. Draw works. 2,282,616; May 12.
Spalding, John D., Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa. Rotary machine. 2,282,617; May 12.
Spalding, John D. (See Morgan, J. S., and Spalding.)
Spanel, Abraham N., Dover, Del. Deposited rubber article. 2,282,547; May 12.
Special Equipment Company. (See Ewald, Mark, assignor.)
Speer Resistor Corporation. (See Herrick, G. G., and Veley, assignors.)
Spooner, Laurence W., Pittsfield, Mass., assignor to General Electric Company. Semiconducting tape. 2,282,832; May 12.
Square D Company. (See Carbonara, Victor E., assignor.)
Square D Company. (See Jackson, John G., assignor.)
Stackpole Carbon Company. (See Ehrlich, Sidney B., assignor.)
Stackpole Carbon Company. (See Haberberger, Anthony, assignor.)
Standard Alcohol Company. (See Brooks, Benjamin T., assignor.)
Standard Lime and Stone Company, The. (See Hill, George D., assignor.)
Standard Oil Company. (See Barnard, Edward R., assignor.)
Standard Oil Company, The. (See Burk, Robert E., assignor.)
Standard Oil Company. (See Sullivan, F. W., Jr., and Ruthruff, assignors.)
Standard Oil Development Company. (See Campbell, Donald L., assignor.)
Standard Oil Development Company. (See Cohen, Charles A., assignor.)
Standard Oil Development Company, et al. (See Fischer, H. G. M., and James, assignors.)
Standard Oil Development Company. (See Frolich, Per K., assignor.)
Standard Oil Development Company. (See Vesterdal, Hans G., assignor.)
Standard Parachute Corporation. (See Hoffman, E. L., and Russell, assignors.)

Staples, Elliot M., Hohokus, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Speech transmission system. 2,282,484; May 12.
Staples, Eugene A., Brooklyn, N. Y. Napkin. 2,282,751; May 12.
Stark, Stephen, Grunwald, near Munich, Bavaria, Germany. Apparatus for charging acetylene cylinders. 2,282,346; May 12.
Stearns, Frederick, and Company. (See Miyamoto, Katsuhei, assignor.)
Steel Plumbing Wares, Inc. (See Graf, Vincent J., assignor.)
Steffen, Elmer G. (See Bondurant, C. W., and Steffen.)
Stehlik, Rudolph F., Antwerp, Belgium, assignor to Associated Telephone & Telegraph Company, Chicago, Ill. Telephone system. 2,282,900; May 12.
Stein, Hall & Company. (See Caesar, George V., assignor.)
Steiner, Harry C., Scotia, and E. F. Peterson, Schenectady, N. Y., assignors to General Electric Company. Electronic apparatus. 2,282,901; May 12.
Stephano Brothers. (See Stephano, Constantine S., assignor.)
Stephano, Constantine S., Elkins Park, assignor to Stephano Brothers, Philadelphia, Pa. Package. 2,283,102; May 12.
Sternfield, George L. (See Rosenthal, R. E., Sternfield, and Peddle.)
Stevens, Donald R., Swissvale, and J. E. Nickels, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Sweetening petroleum products. 2,282,594; May 12.
Stewart, William H., East Jaffrey, N. H. Fishing rod. 2,282,618; May 12.
Stimson, Allen G., Marblehead, Mass., assignor to General Electric Company. Electric protective device. 2,282,833; May 12.
Stotz, Charles K., Farmington, Conn., assignor to The Cha-Gobé Company. Nasal filter. 2,282,681; May 12.
Stover, Russell, Kansas City, Mo. Shipping and storing method for bulk ice cream and the like. 2,282,548; May 12.
Stuart, Alfred A., Jr., Hasbrouck Heights, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Thermionic indicator. 2,283,103; May 12.
Süddeutsche Apparate-Fabrik. (See Kreutzer, Conradin, assignor.)
Suijk, Jacob. (See Suijk, K., and Suijk.)
Suijk, Koenraad, Heemstede, and J. Suijk, Haarlem, Netherlands. Centrifugal casting. 2,282,501; May 12.
Sullivan, Frederick W., Jr., and R. F. Ruthruff, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Polymerization of hydrocarbon gases. 2,282,549; May 12.
Sullivan Machinery Company. (See Watne, Carl J., assignor.)
Sultan, Max, Brooklyn, N. Y. Hacksaw. 2,282,902; May 12.
Sun Rubber Company, The. (See Rempel, Dietrich G., assignor.)
Sun Shipbuilding & Dry Dock Company. (See McConechy, John H. G., assignor.)
Sunderland, Charles C., New Brunswick, assignor to J. A. Roebling's Sons Company, Trenton, N. J. Fall rope carrier stop button. 2,283,020; May 12.
Sundstrand, Oscar J., West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Sheet feeding mechanism for accounting machines. 2,282,411; May 12.
Surman, Arthur J., Philadelphia, Pa. Amusement device or toy. 2,283,104; May 12.
Suth, Jack, Houston, Tex. Pump liner. 2,282,502; May 12.
Svensson, Rolf A. (See Vigren, S. D., and Svensson.)
Swain, Robert C., Riverside, and P. Adams, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparing synthetic tanning agents. 2,282,536; May 12.
Swaine, John, assignor to The Rover Company Limited, Coventry, England. Combustion chamber of spark-ignited internal combustion engines. 2,282,435; May 12.
Swan, Charles P., Decatur, and F. W. Dickson, Atlanta, Ga., assignors to The Coca-Cola Company, Wilmington, Del. Carton packer. 2,282,619; May 12.
Swan Fastener Corporation. (See Seltzer, Ervin, assignor.)
Swebilius, Carl G., Hamden, assignor to Western Cartridge Company, New Haven, Conn. Tubular-magazine automatic firearm. 2,282,903; May 12.
Swem, Lee A., as trustee. (See Kuhn, George, assignor.)
Swift, Harvey C., assignor to Hydraulic Brake Company, Detroit, Mich. Brake. 2,282,620; May 12.
Talge, Foster L., et al. (See Kuhlman, O. E., and Majewski, Jr., assignors.)
Tamele, Miroslav, Oakland, and L. B. Ryland, El Cerrito, assignors to Shell Development Company, San Francisco, Calif. Electrochemical halohydrination. 2,282,682; May 12.
Tamele, Miroslav, Oakland, L. B. Ryland, El Cerrito, and V. C. Irvine, Oakland, assignors to Shell Development Company, San Francisco, Calif. Electrochemical preparation of halogenated organic hydroxy compounds. 2,282,683; May 12.
Tattersall, Harold J. (See McGill, J. H., and Tattersall.)
Taylor, Clifford N., Fargo, N. Dak., assignor to Outboard, Marine and Manufacturing Company, Waukegan, Ill. Propeller. 2,282,436; May 12.
Taylor, Edmund R., Mount Vernon, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Speech transmission system. 2,282,437; May 12.
Taylor, Edmund R. (See Edwards, P. G., and Taylor.)
Taylor, Robert E., Los Angeles, Calif. Modulation system. 2,282,347; May 12.
Taylor, Robert S., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,282,684; May 12.
Tea, Clark A., Detroit, assignor to Insulation Development Corporation, Monroe, Mich. Durometer. 2,282,904; May 12.
Telefunken Gesellschaft für Drahtlose Telegraphie, m. b. H. (See Engbert, Willi, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Rothe, Horst, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie, m. b. H. (See Zeh, Martin, assignor.)
Te Pas, Edmund J., Rocky River, L. A. Bottinelli, East Cleveland, and J. J. McCabe, assignors to The Apex Electrical Manufacturing Company, Cleveland, Ohio. Ironing machine cabinet. 2,282,906; May 12.
ter Horst, William P., Packanack Lake, N. J., assignor to United States Rubber Company, New York, N. Y. Parasiticide. 2,282,907; May 12.
Thiersch, Arthur R., and A. C. Wirth, assignors to Carton Finishers, Inc., Chicago, Ill. Slitting and rewinding mechanism. 2,282,909; May 12.
Thomas, Albert R., and P. P. Anderson, Jr., Evansville, Ind., assignors to Servel, Inc., New York, N. Y. Refrigeration. 2,282,503; May 12.
Thomas, Albert R., and P. P. Anderson, Jr., Evansville, Ind., assignors to Servel, Inc., New York, N. Y. Refrigeration. 2,282,504; May 12.
Thomas, Charles L. (See Ahlberg, J. E., and Thomas.)
Thomas, Harry E., Haddonfield, N. J., assignor to Radio Corporation of America. Double heterodyne receiving system. 2,282,834; May 12.
Thompson, Edward M., Excelsior, Minn. Internally cushioned box. 2,282,908; May 12.
Thompson, Elmer B., assignor to Globe Hoist Company, Des Moines, Iowa. Vehicle dumping apparatus. 2,282,621; May 12.
Thompson, Leland E., Merchantville, N. J., assignor to Radio Corporation of America. Variable frequency detector system. 2,282,910; May 12.
Thompson, Louis T. E., Dahlgren, Va. Miles per gallon gauge. 2,282,438; May 12.
Thumim, Carl, Yeadon, Pa., assignor to General Electric Company. High speed circuit breaker reclosing mechanism. 2,282,348; May 12.
Tide Water Associated Oil Company. (See Cook, Elmer W., assignor.)
Tilden, Sydney G., Stewart Manor, N. Y. Automobile brake. 2,282,439; May 12.
Tillotson Manufacturing Company, The. (See Phillips Bernard C., assignor.)
Timbe, Edward, Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa. Cable anchor. 2,282,685; May 12.
Times Telephoto Equipment Inc. (See Dillenback, G. V. V., Jr., assignor.)
Titan Valve and Manufacturing Company, The. (See Bondurant, C. W., and Steffen, assignors.)
Titanium Alloy Manufacturing Company, The. (See Wellings, W. G., and Hake, assignors.)
Todd, Francis B., Attalla, Ala. Air injection nozzle. 2,282,387; May 12.
Torrence, Glayds J. (See Torrence, Homer R., assignor.)
Torrence, Homer R., deceased, late of South Laguna, Calif., by R. C. Mize, administrator, Santa Ana, Calif., assignor to Gladys J. Torrence. Treating juices. 2,282,622; May 12.
Torrence, Homer R., deceased, late of South Laguna, by Robert C. Mize, administrator, Santa Ana, Calif., assignor to Gladys J. Torrence. Apparatus for treating liquids. 2,282,623; May 12.
Töpfer, Herbert, and E. Ehricke, Berlin-Siemensstadt, assignors to Fides Gesellschaft für die Verwaltung und Verwertung von gewerblichen Schutzrichten mit beschränkter Haftung, Berlin, Germany. Telephone system. 2,282,911; May 12.
Touchette, Mary, administratrix. (See Bell, Phillas.)
Towne, Harold M., Pittsfield, Mass., assignor to General Electric Company. Dicharge gap. 2,282,905; May 12.
Trans-Lux Corporation. (See Newman, David F., assignor.)
Trans-Lux Corporation. (See Weller, Frank E., assignor.)
Transit Research Corporation. (See Piron, Emil H., assignor.)
Trerice, William W., Van Dyke, Mich., assignor to Cone Automatic Machine Company, Inc., Windsor, Vt. Method and machine for producing burnished work. 2,282,550; May 12.

Trimpe Supply Company. (See Whann, R. D., and Maloney, assignors.)
Troche, Herman J. (See Larsen, N. P., and Troche.)
Turke, Joseph F., Collins, N. Y. Electrical glass splitting machine. 2,282,440; May 12.
Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Detachable mounting for weft detectors. 2,283,105; May 12.
Tweedale, Ralph L. (See Herman, K. R., and Tweedale.)
Tyson, Benjamin F., Bayside, N. Y., assignor to Hazeltine Corporation. Carrier-signal selector network. 2,283,106; May 12.
U. S. Bobbin & Shuttle Company. (See D'Arcy, John A., assignor.)
Udale, Stanley M. (See Kittler, M. J., and Udale.)
Udale, Stanley M., Detroit, Mich., assignor to George M. Holley and E. Holley. Pressure carburetor. 2,283,021; May 12.
Underwood Elliott Fisher Company. (See Dobson, William A., assignor.)
Underwood Elliott Fisher Company. (See Sundstrand, Oscar J., assignor.)
Union Switch & Signal Company. (See Ashworth, Harry E., assignor.)
Union Switch and Signal Company, The. (See Cravath, Austin M., assignor.)
Union Switch & Signal Company, The. (See Hedding, Linnie K., assignor.)
Union Switch & Signal Company, The. (See Place, Willard P., assignor.)
Union Switch & Signal Company. (See Young, Henry S., assignor.)
United-Carr Fastener Corporation. (See Murphy, Howard J., assignor.)
United-Carr Fastener Corporation. (See Powell, Leonard A., assignor.)
United Shoe Machinery Company. (See Hossfeld, John D., assignor.)
United Shoe Machinery Corporation. (See Kennison, Frank, assignor.)
United Shoe Machinery Corporation. (See Leveque, Bernard T., assignor.)
United Shoe Machinery Corporation. (See Linderoth, Lambert S., Jr., assignor.)
United States Rubber Company. (See Coleman, Clyde, assignor.)
United States Rubber Company. (See ter Horst, William P., assignor.)
Universal Camera Corporation. (See Brownscombe, Philip J., assignor.)
Universal Camera Corporation. (See Githens, O. W., Kende and Porter, assignors.)
Universal Oil Products Company. (See Ahlberg, J. E., and Thomas, assignors.)
Universal Oil Products Company. (See Chenicek, Joseph A., assignor.)
Universal Oil Products Company. (See Egloff, Gustav, assignor.)
Universal Oil Products Company. (See Ipatieff, V., and Pines, assignors.)
University of Pittsburgh, The. (See King, Charles G., assignor.)
Upson, Charles A., and R. Winship, assignors to The Upson Company, Lockport, N. Y. Fastener for wallboard and the like. 2,282,624; May 12.
Upson Company, The. (See Upson, C. A., and Winship, assignors.)
Upson Company, The. (See Winship, Ross, assignor.)
Vance, Richard. (See Marcum, M., and Vance.)
Van der Mey, Wytze, H. (See van Lammeren, J. A., and van der Mey.)
Van der Pyl, Edward, Holden, assignor to Norton Company, Worcester, Mass. Grinding wheel. 2,282,912; May 12.
Vanderveld, Anthony, assignor to Grand Rapids Store Equipment Company, Grand Rapids, Mich. Revolving display rack. 2,282,835; May 12.
Vanderveld, Anthony, assignor to Grand Rapids Store Equipment Company, Grand Rapids, Mich. Garment supporting rack. 2,282,836; May 12.
Van Dorn, Horace B., Maplewood, assignor to Joseph Dixon Crucible Company, Jersey City, N. J. Eraser for pencils and holding tips therefor. 2,283,107; May 12.
Von Ende, Hermann L., Gary, Ind. Bluing steel. 2,283,109; May 12.
Van Ess, Paul R., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Antioxidant. 2,282,686; May 12.
Van Lammeren, Johannes A., and W. H. van der Mey, Eindhoven, Netherlands, assignors to Radio Corporation of America, New York, N. Y. Radio receiver. 2,282,913; May 12.
Van Uum, John H., Lakewood, Ohio. Spring fastening device. 2,283,151; May 12.
Veeder-Root Incorporated. (See Slye, Edward A., assignor.)
Veley, Hugh N. (See Herrick, G. G., and Veley.)
Versoy, Irving R., assignor to The Berger Brothers Company, New Haven, Conn. Controlling or fitting garment. 2,283,108; May 12.
Vesterdal, Hans G., Elizabeth, N. J., assignor to Standard Oil Development Company. Catalytic alkylation process. 2,282,505; May 12.
Vetterlein, Henry M., Blasdell, N. Y., assignor of one-third to H. P. Burke, Philadelphia, Pa., and one-third to H. L. Hirst, Riverton, N. J. Shutter. 2,282,914; May 12.
Vickers Incorporated. (See Herman, K. R., and Tweedale, assignor.)
Vigren, Sten D., and R. A. Svensson, Stockholm, Sweden, assignors to Western Electric Company, Incorporated. Set of contact springs for electrical switching apparatus. 2,282,687; May 12.
Voith, J. M. (See Lang, Richard T., assignor.)
Volk, Charles E., El Dorado, Kans. Chemical spreader. 2,282,625; May 12.
Von Traubenberg, Heinrich F. R. (See Gebauer, R., and von Traubenberg.)
Wachter, Lester W., assignor to Anthony Company, Streator, Ill. Trailer. 2,282,506; May 12.
Wachter, Lester W., assignor to Anthony Company, Streator, Ill. Hoist control means. 2,282,507; May 12.
Wagner, Carl D., Tulsa, Okla. Safety throwoff. 2,283,110; May 12.
Wahrenbrock, Elmer N., Los Angeles, Calif. Power lawn mower. 2,282,837; May 12.
Wallace, Frank C., assignor to Hollywood Comb Curler, Inc., Los Angeles, Calif. Handle device. 2,282,412; May 12.
Wallgren, August G. F., assignor to Aktiebolaget Bolinder-Munktell, Eskilstuna, Sweden. Lubricant seal for bearings. 2,283,022; May 12.
Walther, August, Frankfort-on-the-Main, Germany. Shoe cementing press with controlled press points. 2,283,111; May 12.
Walworth Patents Inc. (See Mattimore, John D., assignor.)
Watne, Carl J., Nokomis, Ill., assignor to Sullivan Machinery Company. Loading machine. 2,282,626; May 12.
Weber, Walter C. (See Gray, D. E., Pond, and Weber.)
Weiss, Louis, St. Louis, Mo. Draft assembly for chilled beverages. 2,282,627; May 12.
Weller, Frank E., Bloomfield, N. J., assignor to Trans-Lux Corporation. Projection system. 2,283,145; May 12.
Wellings, Wilbur G., and D. S. Hake, Niagara Falls, assignors to The Titanium Alloy Manufacturing Company, New York, N. Y. Foundry mold coating. 282,349; May 12.
Wemp, Ernest E., Detroit, Mich. Clutch disk. 2,283,112; May 12.
Wemp, Ernest E., Detroit, Mich. Clutch disk. 2,283,113; May 12.
Wesley, Rolland D., Norton, Kans. Bowling alley accessory. 2,283,114; May 12.
Western Cartridge Company. (See Swebilius, Carl G., assignor.)
Western Electric Company. (See Vigren, S. D., and Svensson, assignors.)
Western Union Telegraph Company, The. See Holcomb, Philo, Jr., assignor.)
Western Union Telegraph Company. (See Pierson, O. E., Adams, and Edgar, Jr., assignors.)
Westinghouse Electric & Manufacturing Company. (See Minkler, W. A., and Huggins, assignors.)
Westinghouse Electric & Manufacturing Company. (See Wolfert, Edward R., assignor.)
Whann, Russell D., and W. F. Maloney, assignors to Trimpe Supply Company, Indianapolis, Ind. Venetian blind slat washing means. 2,282,628; May 12.
White, Clarence, Walnut Park, and O. B. Graham, assignors to Oil Well Manufacturing Corporation, Los Angeles, Calif. Liner pulling device. 2,282,629; May 12.
Whitlock, Fred W., assignor to Micro Switch Corporation, Freeport, Ill. Thermometer construction. 2,282,441; May 12.
Whitlock, Fred W., assignor to Micro Switch Corporation, Freeport, Ill. System for measurement and control. 2,282,442; May 12.
Whitmore, Paul G., Pine Bluff, Ark. Voltage boosting system. 2,282,838; May 12.
Whitney, Loren L., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Making pivot means. 2,282,537; May 12.
Whyte, Daniel D., New York, N. Y., assignor to Lester Engineering Company, Cleveland, Ohio. Heat control system for pressure casting machines. 2,282,915; May 12.
Wico Electric Company. (See Harmon, Kenneth A., assignor.)
Wiest, Edward J., Oak Lane, Pa., assignor to Radio Corporation of America, New York, N. Y. Loudspeaker diaphragm and fabricating the same. 2,282,839; May 12.
Wiggins, John H., Chicago, Ill. Apparatus for gauging liquid containers. 2,282,771; May 12.
Wiggins, John H., Chicago, Ill. Pontoon type floating roof for liquid storage tanks. 2,282,772; May 12.
Wiggins, John H., Chicago, Ill. Seal for floating roofs. 2,282,773; May 12.
Wiggins, John H., Chicago, Ill. Gauging apparatus for liquid containers. 2,282,774; May 12.
Wiley, R. & W., Inc. (See Alderman, H. B., Wiley, R. R., and Wiley, W. K., assignors.)

Wiley, Roy R. (See Alderman, H. B., Wiley, R. R., and Wiley, W. K., assignors.)
Wiley, Wallace K. (See Alderman, H. B., Wiley, R. R., and Wiley, W. K., assignors.)
Wilkinson, E. D. (See Fuller, Charles M., assignor.)
Wilkinson, Oscar S., as trustee. (See Kuhn, George, assignor.)
Will, Hugo, Elk Rapids, Mich. Spark arrester. 2,282,595; May 12.
Willard Storage Battery Company. (See Cahill, Lysle D., assignor.)
Williams, Ernest, Jackson Heights, and C. P. Xenis, Little Neck, assignors to Consolidated Edison Company of New York, Inc., New York, N. Y. Cable joint construction. 2,283,023; May 12.
Wilson, William C., Perth Amboy, N. J. Vehicle mud guard. 2,282,443; May 12.
Wince, Vearl. (See Logan, H. L., and Wince.)
Winford, Orion P., assignor to Brown & Bigelow, St. Paul, Minn. Book reference calendar. 2,282,630; May 12.
Wing, Russell T., Excelsior, Minn. Fountain pen. 2,282,840; May 12.
Winship, Ross. (See Upson, C. A., and Winship, assignors.)
Winship, Ross, assignor to The Upson Company, Lockport, N. Y. Fastener for wallboards and the like. 2,282,631; May 12.
Winters, Lincoln H., Grant County, N. Dak. Pie pan lid. 2,282,444; May 12.
Winthrop Chemical Company. (See Bickert, Friedrich-Wilhelm, assignor.)
Winthrop Chemical Company. (See Pöhls, Paul, assignor.)
Wirth, Arthur C. (See Thiersch, A. R., and Wirth.)
Wise, Edward T. and J. L. Ghiglieri, Jackson, Calif. Replaceable bit for drill rods. 2,282,596; May 12.
Wittig, Carl H. O., Irondequoit, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Scale mounting. 2,282,632; May 12.
Wolf, Fritz, Birkenwerder, near Berlin, assignor to Siemens & Halske Aktiengesellschaft, Vernerwerk, Siemensstadt near Berlin, Germany. Impulse transmitter. 2,282,916; May 12.
Wolfert, Edward R., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Air conditioning apparatus. 2,283,024; May 12.
Wolfert, Edward R., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigerating apparatus. 2,283,025; May 12.
Wommer, Howard G., assignor to Keystone Reamer & Tool Company, Millersburg, Pa. Hone. 2,283,132; May 12.
Wood, Joseph D., Bethlehem, Pa., assignor, by mesne assignments, to The Pennsylvania Company for Insurances on Lives and Granting Annuities, Philadelphia, Pa. Electric controlling apparatus. 2,282,986; May 12.
Wright Aeronautical Corporation. (See Hill, Henry C., assignor.)
Wright Aeronautical Corporation. (See Kincaid, Frank M., Jr., assignor.)
Wright Aeronautical Corporation. (See Pierce, Erold F., assignor.)
Wright, Walter F., Wyoming, Ohio. Casting metal and cast article. 2,283,152; May 12.
Xenis, Constantine P. (See Williams, E., and Xenis.)
Yale & Towne Manufacturing Company, The. (See Lach, Joseph S., assignor.)
Yale & Towne Manufacturing Company, The. (See Schroeder, Charles, assignor.)
Yankee Metal Products Corp. (See Putterman, Benjamin, assignor.)
Yarnall, David R., assignor to Yarnall-Waring Company, Philadelphia, Pa. Spring-supported solid float indicator. 2,282,538; May 12.
Yarnall-Waring Company. (See Yarnall, David R., assignor.)
Yates, Charles, assignor to Raritan Bay Holding Company, Perth Amboy, N. J. Book. 2,283,026; May 12.
Yates, Robert E., assignor to Drying Systems, Inc., Chicago, Ill. Burner safety control. 2,282,551; May 12.
Yingling, Lawrence M., Gibsonia, Pa. Breakfast cereal. 2,283,115; May 12.
Yorkin, Maurice A., et al. (See Bert, Samuel D., assignor.)
Young, Forrest J., Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa. Hoisting block. 2,282,633; May 12.
Young, Forrest J., Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa. Drawworks. 2,282,634; May 12.
Young, Henry S., Wilkinsburg, assignor to Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,282,841; May 12.
Young, L. A., Spring & Wire Corporation. (See Hathaway, Hubert B., assignor.)
Young, Leonard A., Detroit, Mich. Seat cushion. 2,283,116; May 12.
Zahm, Joseph D. (See Lehn, J. U., and Zahm.)
Zawistowski, Martin, Huntington, N. Y. Cloth cutting machine. 2,282,917; May 12.
Zawistowski, Martin, Huntington, N. Y. Cloth cutting machine. 2,282,918; May 12.
Zeh, Martin, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie, m. b. H., Berlin, Germany. Foldable antenna. 2,282,388; May 12.
Zempel, Edward A., Milwaukee, Wis. Boring bar. 2,282,919; May 12.
Zoder, Incorporated. (See Zoder, Orren E., assignor.)
Zoder, Orren E., assignor, by mesne assignments, to Zoder, Incorporated, St. Louis, Mo. Safety apparatus. 2,282,413; May 12.
Zodtner, Heinrich. (See Brinkmann, F., and Zodtner.)
Zoller, George, Fort Wayne, Ind., assignor to General Electric Company. Dynamoelectric machine. 2,283,146; May 12.
Zuck, Paul E. and P. I. Evans, Still Water, Okla., said Evans assignor to said Zuck. Headrest. 2,282,688; May 12.
Zurn, J. A., Manufacturing Company. (See Shenk, Robert H., assignor.)

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 12TH DAY OF MAY, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Catalysts, Treatment of. B. D. Wells. Re. 22,097; May 12.
Indicating and positioning system. W. E. Dueringer. Re. 22,095; May 12.
Lamp, Oscillating. C. S. Monroe. 22,096; May 12.
Plastic, Translucent petroleum. A. P. Anderson. 22,093; May 12.
Sewing machine. N. V. Christensen. 22,094; May 12.

LIST OF PLANT INVENTIONS

Plant, Rose. R. L. Byrum. 515; May 12.

LIST OF DESIGN INVENTIONS

Airplane or similar article, Target. R. E. Reedy. 132,383; May 12.
Ammunition rounds counter. R. Daalder. 132,374; May 12.
Badge or similar article. M. D. Cogswell. 132,355; May 12.
Billfold. M. Smallman. 132,372; May 12.
Box. F. McIntosh. 132,362; May 12.
Brooch or similar article. P. Strauss. 132,413; May 12.
Brooch or the like, Picture-carrying. M. Fellman. 132,357; May 12.
Bumper or similar article, Automobile. G. W. Walker. 132,365; May 12.
Cabinet, Illuminated mirror. R. C. Nordquist. 132,378; May 12.
Case, Vanity. A. P. Conant. 132,366; May 12.
Comb. H. Imamura. 132,367; May 12.
Cone, Ice cream. E. M. James. 132,402; May 12.
Conveyer and mixer for stock feeds, flours, and the like, Combined. V. J. Coleman. 132,373; May 12.
Dish or similar article. G. E. Gregory. 132,344; May 12.
Dress. P. Bonagura. 132,384; May 12.
Dress. A. L. S. Carroll. 132,385–96; May 12.
Dress. B. Cashin. 132,397–400; May 12.
Dress. P. Kaperst. 132,403; May 12.
Dress. M. McCoy. 132,405–10; May 12.
Dress. R. Payne. 132,411; May 12.
Dress. S. Zahn. 132,414–16; May 12.
Dress ensemble. M. Berger. 132,382; May 12.
Dress ensemble. H. Salow. 132,347; May 12.
Emblem or similar article, Appliqué. W. P. Burn and H. Jurkops. 132,352–4; May 12.
End piece for a sofa or the like. D. J. Saltman. 132,348; May 12.
Figurine or similar article. F. Powell. 132,364; May 12.
Flowerpot and support, Combined. C. W. Jorgensen. 132,368; May 12.
Grandstand. G. Hadden. 132,361; May 12.
Handbag or the like. W. J. Reilly. 132,418; May 12.
Hat. A. J. Stack. 132,412; May 12.
Hat, Lady's. S. Lish. 132,371; May 12.
Heater, Electric plate. H. J. Eriksen. 132,356; May 12.
Housing and support therefor, Combined fan motor. H. L. Laylon. 132,370; May 12.
Housing, Antenna. G. A. Page. 132,380; May 12.
Jacket or similar article. J. Sniderman. 132,349; May 12.
Pin or similar article. B. Margone and H. Shweder. 132,404; May 12.
Pitcher. J. R. Lawrence. 132,346; May 12.
Pot scraper, dish cloth, and soap unit, Combined. E. H. Bernstein. 132,343; May 12.
Propeller, Aircraft. M. M. Munk. 132,376; May 12.
Rack or similar article, Card. J. J. Gardner. 132,360; May 12.
Rattle. I. E. Cohn. 132,342; May 12.
Robe, Hostess. V. Giovagnoni. 132,401; May 12.
Shoe. R. P. Boothby. 132,351; May 12.
Slip. S. Landau. 132,369; May 12.
Soap, Bar of. H. B. Stoner and R. W. Angert. 132,350; May 12.
Stirrup for physician's examining table. G. E. Froelich. 132,358; May 12.
Swimming device. W. H. Smith. 132,377; May 12.
Textile fabric or similar article. M. M. Cann. 132,417; May 12.
Tire, Dual. H. J. Jezek. 132,345; May 12.
Trailer. R. J. Elkus. 132,375; May 12.
Truck, Hand. W. V. Goetsch. 132,379; May 12.
Vase. E. W. Fuerst and C. W. Sawyer. 132,359; May 12.
Washing machine. I. Nachumsohn. 132,363; May 12.
Wire twisting device. W. E. Tabb and W. Paul. 132,381; May 12.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 12TH DAY OF MAY, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive article. J. P. Fenton. 2,282,650; May 12.
Acid ester, Ricinoleic. M. De Groote and B. Keiser. 2,282,646; May 12.
Actuating mechanism for work clamps. F. Kennison. 2,282,330; May 12.
Adjustable fastener. R. J. Roseman. 2,282,410; May 12.
Advertising apparatus, Aerial. J. Bruno. 2,282,305; May 12.
Air conditioning. A. B. Newton. 2,283,085; May 12.
Air conditioning apparatus. W. A. Minkler and L. G. Huggins. 2,282,373; May 12.
Air conditioning apparatus. E. R. Wolfert. 2,283,024; May 12.
Air conditioning system. A. B. Newton. 2,282,878; May 12.
Air control. C. M. Fuller. 2,283,052; May 12.
Aircraft, Method and apparatus for lighting areas particularly applicable to facilitating night landings of. J. A. Hellmuth. 2,282,356; May 12.
Aircraft pickup and delivery apparatus. L. S. Adams. 2,282,921; May 12.
Airfoil. J. M. Dillon. 2,282,647; May 12.
Airplane wheel. C. Hollerith. 2,282,359; May 12.
Airplane pickup and delivery apparatus. L. S. Adams. 2,282,920–1; May 12.
Airplane wing structure. H. Gropler and E. Handke. 2,282,516; May 12.
Alcohol, Dehydrating. C. A. Cohen. 2,282,457; May 12.
Alloys, Production of refined magnesium and magnesium. G. Schichtel and F. Jabirek. 2,283,099; May 12.
Amplifier, Audio frequency. E. S. Kundie. 2,282,870; May 12.
Amplifier, Audio frequency. C. S. Root. 2,282,383; May 12.
Amplifier. C. S. Root. 2,282,381; May 12.
Amplifier, Inverse feed-back. D. G. Lindsay. 2,282,605; May 12.
Amplifier system. C. S. Root. 2,282,382; May 12.
Ampoules, Manufacture of. J. Dichter. 2,282,993; May 12.
Amusement device. C. F. Kennedy. 2,282,763; May 12.
Amusement device or toy. A. J. Surman. 2,283,104; May 12.
Analysis, Method and apparatus for. C. W. Oliphant. 2,283,086; May 12.
Anchor, Cable. E. Timbs. 2,282,685; May 12.
Anchor, Twin fluke. R. S. Danforth. 2,282,566; May 12.
Animal trap. J. U. Lehn and J. D. Zahm. 2,282,485; May 12.
Antifriction bearing. J. H. Powers. 2,282,883; May 12.
Antioxidants. P. R. Van Ess. 2,282,686; May 12.
Antisiphonic valve. G. E. Moody. 2,282,338; May 12.
Antenna, Directional. E. Metschl. 2,283,081; May 12.
Antenna, Foldable. M. Zeh. 2,282,388; May 12.
Apparatus for assembling coiled spring units. S. S. Marcus and S. Krakauer. 2,282,664; May 12.
Apparatus for baking enamel. F. S. Bates. 2,282,926; May 12.
Apparatus for blowing and cooling glassware. W. K. Berthold. 2,282,848; May 12.
Apparatus for charging acetylene cylinders. S. Stark. 2,282,346; May 12.
Apparatus for cleaning and sorting fur bearing skins. R. H. Plass. 2,282,530; May 12.
Apparatus for coating containers. I. J. Snader and J. F. Earp, Jr. 2,282,897; May 12.
Apparatus for cooling freshly coated articles. I. J. Snader and J. F. Earp, Jr. 2,282,899; May 12.
Apparatus for cutting ice. O. Schimmer. 2,282,546; May 12.
Apparatus for determining fluid contents of solids. W. L. Horner. 2,282,654; May 12.
Apparatus for displaying foodstuffs and other articles. E. Quirk. 2,282,592; May 12.
Apparatus for electric heating. F. S. Denneen and W. C. Dunn. 2,282,322; May 12.
Apparatus for feeding clay to molds in the manufacture of pottery ware. W. J. Miller. 2,282,372; May 12.
Apparatus for forming ornamental trimmings. B. L. Scott. 2,283,017; May 12.
Apparatus for measurement. A. E. Parker. 2,282,741; May 12.
Apparatus for regulating and delivering paper stock to paper making machines. R. T. Lang. 2,283,155; May 12.
Apparatus for tensioning cord. F. G. Reid. 2,283,014; May 12.
Applicator, Fluid control. E. L. Hollenbeck. 2,282,406; May 12.
Apparatus for forming a water heating coil. W. L. Enghauser. 2,282,542; May 12.

Apparatus for gauging liquid containers. J. H. Wiggins. 2,282,771; May 12.
Apparatus for manufacturing contoured sheets and the like. P. C. Richardson. 2,282,593; May 12.
Apparatus for and method of regulably controlling the temperature of molten glass in forehearths. W. T. Barker, Jr. 2,282,554; May 12.
Apparatus for forming metal articles. G. A. Lyon. 2,282,588; May 12.
Apparatus for the production of dot-composed or screened negatives. L. Mies and W. Peterhans. 2,282,337; May 12.
Apparatus for removing foreign particles from air of similar gaseous mediums. E. F. Sarver. 2,282,770; May 12.
Apparatus for removing grass, weeds and other matter from the ground. C. J. Smith. 2,282,679; May 12.
Apparatus for stenciling articles. D. G. Rempel. 2,282,609; May 12.
Apparatus for treating liquids. H. R. Torrence. 2,282,623; May 12.
Artificial materials, Treatment of. D. J. Hadley and T. Jackson. 2,282,415–7; May 12.
Asphalt preparation. R. E. Burk. 2,282,703; May 12.
Assembly machine and method, Continuous bat. C. G. Joa. 2,282,477; May 12.
Attachment for firearms. J. R. Rigandi. 2,282,428; May 12.
Auto service indicator. G. Chann. 2,282,852; May 12.
Automotive vehicle with detachable loading head. G. M. Butters. 2,282,704; May 12.
Automatic brake. S. G. Tilden. 2,282,439; May 12.
Azo compounds and material colored therewith. J. B. Dickey and J. G. McNally. 2,282,323; May 12.
Bag: *See*—
Golf bag.
Bag and making same. P. Knuetter. 2,283,069; May 12.
Baking and apparatus therefor, Bread loaf. G. S. and T. C. Baxter. 2,283,032; May 12.
Band frequency modulation receiving system, Wide. W. R. Koch. 2,282,973; May 12.
Band receiver, Wide. W. R. Koch. 2,282,972; May 12.
Bar: *See*—
Boring bar.
Base for machine or other light gun. J. W. Poysa. 2,282,742; May 12.
Bearing: *See*—
Anti-friction bearing. **Rocker bearing.**
Bearing structure. R. J. Ruths. 2,282,345; May 12.
Belt machine, Sanding. R. F. Kneisley. 2,282,058; May 12.
Bending apparatus. E. Nightingale. 2,283,012; May 12.
Binder, Loose-leaf. A. M. Martin. 2,282,976; May 12.
Biological product and obtaining same. C. G. King. 2,282,969; May 12.
Bit for drill rods, Replaceable. E. T. Wise and J. L. Ghiglieri. 2,282,596; May 12.
Blade cutter, Insertable. R. E. Cross. 2,282,306; May 12.
Block: *See*—
Hoisting block.
Blowout preventer. W. E. King. 2,282,363; May 12.
Blow-off for steam driers, Automatic. O. W. Carrick and L. O. Gunderson. 2,282,640; May 12.
Board: *See*—
Game board.
Boat propelling mechanism. M. Marcum and R. Vance. 2,282,368; May 12.
Boat, Vehicle driven. F. G. Preston. 2,282,745; May 12.
Book. C. Yates. 2,283,026; May 12.
Boring bar. E. A. Zempel. 2,282,919; May 12.
Body construction. E. H. Piron. 2,282,823; May 12.
Book reference calendar. O. P. Winford. 2,282,630; May 12.
Bottle container. A. L. Koenig. 2,282,482; May 12.
Bottling machine. F. C. Hamilton and E. C. Landholt. 2,282,576; May 12.
Bowling alley accessory. R. D. Wesley. 2,283,114; May 12.
Box: *See*—
Internally cushioned box.
Box construction. F. W. Frey. 2,282,859; May 12.
Bracelet locket. A. Corbi and L. Bojar. 2,282,563; May 12.
Bracelet or the like. A. F. Reilly. 2,283,015; May 12.
Brake: *See*—
Automatic brake. **Hydraulic brake.**
Brake. H. C. Swift. 2,282,620; May 12.
Brake control for two-wheeled trailers, Automatic sliding pole. S. W. Clark. 2,282,938; May 12.

Brake for draw works. J. D. Spalding. 2,282,615; May 12.
Brake mechanism, Hand. E. C. Mersereau. 2,282,736; May 12.
Brake rigging. E. G. Mueller. 2,282,374; May 12.
Brassière and foundation garment, Combination. M. R. Schubert. 2,283,144; May 12.
Brush for liquid-containing bottles, Cap. J. L. Osborne. 2,283,123; May 12.
Brush rigging for electrical apparatus. G. A. Brettell, Jr. 2,282,450; May 12.
Buckle. M. Ruskin. 2,283,094; May 12.
Buckle, Suspensory. J. V. Amendola. 2,282,635; May 12.
Building construction. J. Schurman. 2,282,829; May 12.
Building covering member. G. J. Snyder. 2,282,432; May 12.
Building wall structure. R. C. Graef. 2,282,515; May 12.
Bulldozer. L. T. Argo. 2,282,389; May 12.
Burner: *See*—
Oil burner.
Burner safety control. R. E. Yates. 2,282,551; May 12.
Burnished work, Method and machine for producing. W. W. Trerice. 2,282,550; May 12.
Butter slicing and dispensing machine. W. M. Merrick. 2,282,735; May 12.
Cabinet: *See*—
Ironing machine cabinet. Shower cabinet.
Cable for deep well pumps, Electric. A. Arutunoff. 2,283,117; May 12.
Cable joint construction. E. Williams and C. P. Xenis. 2,283,023; May 12.
Cake holder. H. J. McDermott. 2,283,079; May 12.
Camera. P. J. Brownscombe. 2,282,850; May 12.
Camera, Automatic exposure. E. R. Kun. 2,282,659; May 12.
Camera focusing device. J. A. Maurer, Jr. 2,283,077; May 12.
Camera, Gun. F. T. Sonne. 2,282,680; May 12.
Camera, Process. F. T. Powers. 2,282,427; May 12.
Camera, screen and projector, Combination motion picture. P. De Rose. 2,282,991; May 12.
Cameras, Image reverser for. W. C. Huebner. 2,282,656; May 12.
Car coupler. W. J. Metzger. 2,283,080; May 12.
Carbon and copy sheet unit. H. W. Rotherick. 2,282,610; May 12.
Carburetor. W. C. Conover. 2,282,458; May 12.
Carburetor, Pressure. S. M. Udale. 2,283,021; May 12.
Carburetor choke control. B. C. Phillips. 2,282,376; May 12.
Carrier-signal selector network. B. F. Tyson. 2,283,106; May 12.
Carton. F. H. Groves. 2,282,573; May 12.
Carton opener, Safety. A. Bates. 2,282,697; May 12.
Catalysis, Suppression of metal. J. A. Chenicek. 2,282,936; May 12.
Catalytic alkylation process. H. G. Vesterdal. 2,282,505; May 12.
Catalytic reaction apparatus. D. L. Campbell. 2,282,453; May 12.
Catapult. L. S. Adams. 2,282,315; May 12.
Catapult and projectile, Toy. R. Lazzari. 2,282,764; May 12.
Carton packer. C. P. Swan and F. W. Dickson. 2,282,619; May 12.
Cathode ray devices, Modulation of. E. Bruce. 2,283,148; May 12.
Cellulosic structure and preparing same. T. G. Finzel. 2,282,568; May 12.
Centralizing and locking means for loaders. B. R. Sheets. 2,282,613; May 12.
Centrifugal blower. M. C. Shaw and G. L. Kollberg. 2,283,131; May 12.
Centrifugal casting. K. Suijk and J. Suijk. 2,282,501; May 12.
Cereal, Breakfast. L. M. Yingling. 2,283,115; May 12.
Cereal flakes, Stabilized heat reacted. S. Musher. 2,282,803; May 12.
Cereal germ preparation, Heat treated stabilized flaked. S. Musher. 2,282,804; May 12.
Chair mounting, Tilting. W. F. Herold. 2,283,062; May 12.
Chain shot. T. H. Hunter. 2,283,065; May 12.
Channel assembly. B. S. Floraday. 2,283,002; May 12.
Charts, Illuminated control for vision-test. J. A. Potter. 2,282,494; May 12.
Chemical process. A. S. Carter and F. B. Downing. 2,282,705; May 12.
Chemical processing apparatus. W. D. Le Bar and R. E. Cushing. 2,283,008; May 12.
Chemical spreader. C. E. Volk. 2,282,625; May 12.
Chuck. R. J. S. Pigott. 2,282,674; May 12.
Chuck. R. J. S. Pigott. 2,282,676; May 12.
Cigarette package wrapper and match package holder, Combined. P. Hutchinson. 2,283,147; May 12.
Circuit: *See*—
Control circuit. Rectifier circuit.
Feed back circuit.
Circuit breaker. J. G. Jackson. 2,282,520; May 12.
Circuit breaker, Electrical connection. A. Keefe 2,282,967; May 12.
Circuit breaker reclosing mechanism, High speed. C. Thumim. 2,282,348; May 12.
Circuit control, Electric. J. H. Cannon. 2,282,454; May 12.
Circuits for motion picture apparatus, Control. J. L. Fields. 2,282,957; May 12.
Circuits, Frequency modulation detector. W. A. Harris. 2,282,961; May 12.
Circuits, Receiver and amplifier. H. Rothe. 2,282,886; May 12.
Clamp: *See*—
Filling clamp. Sailpipe hub clamp.
Clamp device. B. Putterman. 2,282,746; May 12.
Clamping device. G. H. Fuehrer. 2,282,757; May 12.
Cleaner: *See*—
Vacuum cleaner.
Clinker cooler, Rotary. A. J. Roubal. 2,283,129; May 12.
Closed receptacle. R. C. Ingersoll. 2,283,066; May 12.
Closure for box offices. C. De Paul. 2,282,990; May 12.
Clutch disk. E. E. Wemp. 2,283,112–3; May 12.
Clutch plate. G. T. Jarrett. 2,282,981; May 12.
Coating containers. I. J. Snader and J. F. Earp, Jr. 2,282,898; May 12.
Coating cupreous surfaces with tin. J. C. Bradley. 2,282,511; May 12.
Coating for photographic material, Antihalo. W. Schneider, R. Brodersen, O. Meissner, and M. Coenen. 2,282,890; May 12.
Coffee beans, Treatment of. S. Musher. 2,282,802; May 12.
Coffee roasting product, method, and machine. T. Dantzig. 2,282,708; May 12.
Coil, Adjustable transformer. J. L. Bonanno. 2,283,037; May 12.
Collapsible table. C. H. McCaslin. 2,282,665; May 12.
Combustion chamber of spark-ignited internal combustion engines. J. Swaine. 2,282,435; May 12.
Concentrator, Portable dry. C. M. Fuller. 2,283,051; May 12.
Concentrator table, Dry. C. M. Fuller. 2,282,860; May 12.
Concrete mixer, Rotary. J. P. Faber. 2,282,467; May 12.
Concrete mixers, Water supply system for. C. F. Ball. 2,282,694; May 12.
Condenser: *See*—
Electrical condenser.
Conditioner and blowoff system. Boiler water. L. O. Gunderson and O. W. Carrick. 2,282,775; May 12.
Confections, Device for handling and dipping. J. A. Lewis. 2,282,661; May 12.
Confections, Process and apparatus for the preparation of frozen. E. E. Lindsey. 2,282,662; May 12.
Contact springs for electrical switching apparatus, Set of. S. D. Vigren and R. A. Svensson. 2,282,687; May 12.
Container: *See*—
Bottle container. Transparent container.
Merchandise container.
Control apparatus. H. S. Jones. 2,282,726; May 12.
Control circuit, Volume. F. A. Polkinghorn. 2,282,744; May 12.
Control device. E. H. Ayers. 2,282,844; May 12.
Control mechanism. M. C. Herget. 2,283,139; May 12.
Control system. H. Bany. 2,282,845; May 12.
Control system for synchronous machines. S. C. Ewing. 2,282,955; May 12.
Controller for flowing gases. R. J. S. Pigott. 2,282,675; May 12.
Conveyer. A. D. Siden. 2,282,534; May 12.
Conveyer mechanism. B. F. Fitch. 2,282,353; May 12.
Conveyer system for unloading ships. F. Meyer. 2,282,978; May 12.
Cooker, Egg. W. F. Serr. 2,283,019; May 12.
Cooking device. S. L. Sohn. 2,282,500; May 12.
Cooler: *See*—
Clinker cooler.
Cooling unit. R. H. Norris. 2,282,879; May 12.
Copy character holder. J. A. Hoffmann. 2,282,473; May 12.
Copyholder for document photographing cameras. F. M. Pickett. 2,282,768; May 12.
Coring device. M. Ewald. 2,282,326; May 12.
Correlating device. S. Adler. 2,282,843; May 12.
Corrosion in electric capacitors, Prevention of. F. M. Clark. 2,282,937; May 15.
Counterelectromotive force cell. H. P. Murphy. 2,282,979; May 12.
Coupling apparatus. E. W. Kenefake. 2,282,968; May 12.
Cribs, Stabilizer for drop side. S. Kroll and N. J. Kroll. 2,282,484; May 12.
Crosshead mechanism. E. S. Hall. 2,282,722; May 12.
Curtain stretcher. W. W. Block. 2,282,393; May 12.
Cushion, Seat. L. A. Young. 2,283,116; May 12.
Cutout, Indicating. R. W. Barnitz. 2,283,031; May 12.
Cutter: *See*—
Blade cutter. Glass cutter.
Cutting devices. W. C. Athon and E. E. Phillips. 2,282,692; May 12.
Cutting machine, Cloth. M. Zawistowski. 2,282,917–8. May 12.
Cutting tool. C. S. Knauf. 2,282,729; May 12.
Cylinder, Master. C. F. Baisch. 2,282,390; May 12.
Cylinder retainer, Padlock. J. S. Lach. 2,282,983; May 12.
Dairy compositions, Stabilization of. S. Musher. 2,282,794; May 12.

Dairy products, Stabilization of. S. Musher. 2,282,799; May 12.
Dam digger. F. Maresch. 2,282,984; May 12.
Derrick. G. J. Cormier, Jr. 2,283,049; May 12.
Desulphurizing and cracking process. B. T. Brooks. 2,282,451; May 12.
Detector system, Variable frequency. L. E. Thompson. 2,282,910; May 12.
Diaphragm and fabricating the same, Loudspeaker. E. J. Wiest. 2,282,839; May 12.
Diesel engine fuel pump. W. J. Cole. 2,282,562; May 12.
Diesel engine lubrication. E. R. Barnard. 2,282,599; May 12.
Direction and position finder. P. Bernstein. 2,282,541; May 12.
Discharge gap. H. M. Towne. 2,282,905; May 12.
Display device. S. W. Mayer and E. T. Lowe. 2,282,872; May 12.
Display device. A. W. Smith. 2,282,430; May 12.
Display rack, Revolving. A. Vanderveld. 2,282,835; May 12.
Draft assembly for chilled beverages. L. Weiss. 2,282,627; May 12.
Draw works. F. J. Young. 2,282,634; May 12.
Draw works. J. D. Spalding. 2,282,616; May 12.
Drier, Air. A. A. Busch. 2,283,043; May 12.
Drill: *See*—
  Press drill.
Dry-ice press. R. B. Dickey. 2,282,460; May 12.
Durometer. C. A. Tea. 2,282,904; May 12.
Dyeing with substantive colors. R. Haynn. 2,282,724; May 12.
Dyestuffs, their copper compounds and their manufacture, Trisazo. A. Krebser and W. Bossard. 2,282,331; May 12.
Dynamoelectric machine. R. D. Jones. 2,282,966; May 12.
Dynamoelectric machine. G. Zoller. 2,283,146; May 12.
Earring, ring and the like, Spring-wire. M. C. Meyer. 2,282,336; May 12.
Elastic wheel. R. Boyer, M. Marin, and M. Gaestel. 2,282,638; May 12.
Electric controlling apparatus. J. D. Wood. 2,282,986; May 12.
Electric current into a series of impulses, Translation of modulated. M. D. McFarlane. 2,283,157; May 12.
Electric generator. Spring driven. R. L. Haynes. 2,282,963; May 12.
Electric meter. P. Bell. 2,283,034; May 12.
Electric motor. F. G. Logan. 2,282,524; May 12.
Electric plugging device. F. Brinkmann and H. Zodtner. 2,283,040; May 12.
Electric switch. R. W. Goff. 2,282,865; May 12.
Electric system. J. L. Creveling. 2,282,321; May 12.
Electric switch. J. A. Hannum. 2,282,355; May 12.
Electric switch for controlling a number of magneto circuits. F. R. F. Ramsay. 2,282,747; May 12.
Electrical circuits. A. W. Barber. 2,282,696; May 12.
Electrical condenser. J. A. Flanzer. 2,282,858; May 12.
Electrical glass splitting machine. J. F. Turke. 2,282,440; May 12.
Electrical vacuum pipe. C. W. Hansell. 2,282,401; May 12.
Electrochemical halohydrination. M. Tamele and L. B. Ryland. 2,282,682; May 12.
Electrode. A. P. Hauel. 2,282,760; May 12.
Electrode, Direct current negative control. R. W. Simon and W. W. Lozier. 2,282,533; May 12.
Electrode holder and cable unit. S. Albert. 2,282,316; May 12.
Electrolyte for and method of polishing metal surfaces anodically. C. L. Faust. 2,282,350; May 12.
Electrolyte for and method of polishing metal surfaces anodically. C. L. Faust. 2,282,351; May 12.
Electrolytic capacitor. P. McK. Deeley. 2,282,459; May 12.
Electromagnetic device. F. M. Joseph. 2,282,762; May 12.
Electro-optical system and apparatus. G. V. V. Dillenback, Jr. 2,282,461; May 12.
Electron discharge device. C. A. Bieling. 2,282,392; May 12.
Electron focussing system. L. F. Broadway. 2,283,041; May 12.
Electron multiplier. R. Gebauer and H. F. R. von Traubenberg. 2,283,004; May 12.
Electronic apparatus. H. C. Steiner and E. F. Peterson. 2,282,901; May 12.
Electrostatic curing of heat curing materials, while under pressure, Method of and apparatus for the. C. E. Bennett. 2,282,317; May 12.
Emulsions of vitamin containing vegetative materials in molasses, Stabilized. S. Musher. 2,282,785; May 12.
Engine: *See*—
  Internal combustion engine.
Engine construction. E. S. Hall. 2,282,721; May 12.
Envelope, Composite glass and metal. D. W. Power. 2,283,090; May 12.
Enzymes, Process of isolating. K. Miyamoto. 2,282,492; May 12.
Eraser for pencils and holding tips therefor. H. B. Van Dorn. 2,283,107; May 12.
Ethers from alcohols, Production of. P. K. Frolich. 2,282,469; May 12.
Evaporator, Variable capacity refrigerant. R. E. King. 2,282,970; May 12.
Expansion compensating means for steam pipes. R. Gunn. 2,282,354; May 12.
Extractor: *See*—
  Fruit juice extractor.
Fabric slitting and folding machine. H. B. Hathaway. 2,283,060; May 12.
Fabrics, Treatment of textile. H. O. Kauffmann and R. L. McEwen. 2,283,141; May 12.
Fastener: *See*—
  Adjustable fastener. Snap fastener.
  Separable fastener.
Fastener for wallboards and the like. R. Winship. 2,282,631; May 12.
Fastener member. D. Dyresen. 2,282,996; May 12.
Fastening device, Spring. J. H. Van Uum. 2,283,151; May 12.
Feed-back circuit. C. C. Root. 2,282,380; May 12.
Feed water and blowoff system for boilers. L. O. Gunderson. 2,282,776; May 12.
Fiber can treating machine. L. Biggs. 2,282,318; May 12.
Fibrous material. R. Etzkorn. 2,282,466; May 12.
Filler, Grease gun. W. A. Kasuske. 2,282,727; May 12.
Filling clamp. B. W. Brown. 2,282,304; May 12.
Film developing apparatus. L. Golden. 2,282,570; May 12.
Film system, Sound. C. N. Batsel. 2,282,927; May 12.
Filter: *See*—
  Nasal filter.
Filter holder. C. E. Peterson. 2,282,767; May 12.
Fire extinguishing system for ships. J. Edmundson. 2,282,997; May 12.
Firearm, Tubular-magazine automatic. C. G. Swebilius. 2,282,903; May 12.
Fire extinguishing system device. A. Mathisen. 2,282,491; May 12.
Fire hydrant, street light standard and similar highway accessory. W. W. Corey. 2,282,641; May 12.
Fishing outfit. L. Rosen. 2,283,092; May 12.
Fishing reel. G. H. Dumond. 2,282,995; May 12.
Fishing rod. W. H. Stewart. 2,282,618; May 12.
Flame hardening. J. J. Crowe. 2,282,942; May 12.
Flame hardening process and apparatus. R. B. Mitchell. 2,282,670; May 12.
Flange, Nongasket. M. W. Banowetz. 2,282,552; May 12.
Flexible members in parallel, Interconnecting elongated. J. J. Burke. 2,283,042; May 12.
Float controlled meter. W. F. Schultz. 2,282,497; May 12.
Flot indicator, Spring-supported solid. D. R. Yarnall. 2,282,538; May 12.
Floor covering. R. C. Allison. 2,283,027; May 12.
Flooring, Wood. R. G. Bruce. 2,283,135; May 12.
Flow control device. F. B. Schneider. 2,282,889; May 12.
Flowers, Artificial. T. Kirchen. 2,282,657; May 12.
Fluid indicator and metering device. Y. Neal. 2,282,528; May 12.
Fluid machine and hammer. H. B. Colestock. 2,283,047; May 12.
Food. S. Musher. 2,282,793; May 12.
Food composition, Exploded antioxygenic. S. Musher. 2,282,784; May 12.
Food composition, Stabilized. S. Musher. 2,282,818; May 12.
Food compositions, Dry stable. S. Musher. 2,282,788; May 12.
Food compositions, Stabilization of. S. Musher. 2,282,787; May 12.
Food products, Stabilized. S. Musher. 2,282,789; May 12.
Foods and oils, Stabilization of. S. Musher. 2,282,798; May 12.
Foot manipulator. D. W. Davis. 2,282,307; May 12.
Frame: *See*—
  Picture frame.
Freezing apparatus, Quick. W. R. Maguire. 2,282,525; May 12.
Freight handling apparatus. B. F. Fitch. 2,282,352; May 12.
Fruit juice extractor. O. E. Kuhlman and J. M. Majewski, Jr. 2,283,119; May 12.
Fruits and vegetables, Stabilization of. S. Musher. 2,282,801; May 12.
Furnace. W. Ryan. 2,282,496; May 12.
Furnace control. A. E. Krogh. 2,283,007; May 12.
Furnace grate. F. W. Eske. 2,282,713; May 12.
Fuse, Electric. H. Beyer. 2,282,849; May 12.
Gain compensating means, Automatic. F. J. Faltico. 2,282,649; May 12.
Galvanometer. W. W. Miller. 2,282,590; May 12.
Game apparatus. N. C. Barbot and P. A. Barbot. 2,282,846; May 12.
Game board. C. B. Malbon. 2,282,871; May 12.
Garage construction. R. Everitt. 2,282,324; May 12.
Garden tool. E. T. Peterson. 2,282,673; May 12.
Garment, Controlling or fitting. I. R. Versoy. 2,283,108; May 12.
Garment or the like, Foundation. P. H. Robbins. 2,283,091; May 12.

Garment pocket and making same. N. M. Rosenstein. 2,282,545; May 12.
Gases, Polymerization of hydrocarbon. F. W. Sullivan, Jr., and R. F. Ruthruff. 2,282,549; May 12.
Gate valve. M. W. Banowetz. 2,282,553; May 12.
Gauge: *See*—
  Miles per gallon gauge. Weatherstrip installer's gauge.
  Tank gauge.
Gauging apparatus for liquid containers. J. H. Wiggins. 2,282,774; May 12.
Gear shift remote control. H. Hawkins and W. L. Reid. 2,282,962; May 12.
Gel composition and preparation. W. I. Patnode. 2,282,882; May 12.
Generator: *See*—
  Electric generator. Oscillating generator.
Gland joint, Screw. W. D. Moore. 2,282,738; May 12.
Glass composition, Yellow. H. H. Blau and W. H. Gillett. 2,282,601; May 12.
Glass cutter. R. C. Barrett. 2,283,134; May 12.
Glass forming machine. S. D. Bert. 2,282,449; May 12.
Glass, Manufacture of laminated. P. Finnegan. 2,282,399; May 12.
Glass working apparatus. D. E. Gray, L. N. Pond, and W. C. Webber. 2,283,055; May 12.
Glassware, Vitrifiable composition for decorating. A. J. Deyrup. 2,282,540; May 12.
Glider. J. C. Feldman. 2,283,000; May 12.
Glider. S. Miller. 2,282,669; May 12.
Golf bag. H. Q. Abell. 2,282,842; May 12.
Golf club, Shock absorber. K. Smith. 2,282,614; May 12.
Governor, Hydraulic turbine. W. J. Rheingans. 2,283,127; May 12.
Grader, Road. F. E. Arndt. 2,282,752–3; May 12.
Grille, Air. C. D. Graham. 2,282,572; May 12.
Grinder, Meat. L. B. Motte. 2,282,671; May 12.
Grinding machine, Wood. F. W. Roberts. 2,282,887; May 12.
Grinding wheel. E. Van der Pyl. 2,282,912; May 12.
Guard structure. M. L. Fisher. 2,283,050; May 12.
Hacksaw. M. Sultan. 2,282,902; May 12.
Hair waving, Device for. C. P. Simas. 2,282,896; May 12.
Halides, Recovery of hydrogen. W. Engs and H. W. De Jong. 2,282,712; May 12.
Halogenated organic hydroxy compounds, Electrochemical preparation of. M. Tamele, L. B. Ryland, and V. C. Irvine. 2,282,683; May 12.
Hammer, Self-aligning. R. J. Burnett. 2,282,932; May 12.
Hand stamp, Counting. J. E. Sadler. 2,283,130; May 12.
Handbag. J. N. Lowe. 2,282,408–9; May 12.
Handle device. F. C. Wallace. 2,282,412; May 12.
Handles, Grip means for implement. H. W. Hall. 2,282,419; May 12.
Hangar. H. Curran. 2,282,756; May 12.
Hanger for electrical conductors. F. J. Hendley. 2,283,061; May 12.
Headrest. P. E. Zuck and P. I. Evans. 2,282,688; May 12.
Heat control system for pressure casting machines. D. D. Whyte. 2,282,915; May 12.
Heat exchange system. W. G. Noack. 2,282,740; May 12.
Heater: *See*—
  Liquid mixer and heater.
Helmet, Protective. M. Scudder, E. Nolte, and H. B. Latina. 2,282,830; May 12.
High-chair device. S. F. Ostrow. 2,282,881; May 12.
High frequency radiations, Supervisory means for. W. M. Hahnemann and E. Kramar. 2,283,058; May 12.
High frequency stage. M. Schrumpf. 2,283,016; May 12.
Hinge and latch mechanism, Hood. E. T. Ragsdale and E. F. Reynolds. 2,282,884; May 12.
Hoist. D. G. Rempel. 2,282,608; May 12.
Hoist control means. L. W. Wachter. 2,282,507; May 12.
Hoisting block. F. J. Young. 2,282,633; May 12.
Holder: *See*—
  Cake holder. Filter holder.
  Cigarette package wrapper and match package holder. Initial holder.
  Copy holder. Picture and memorandum holder.
Hone. H. G. Wommer. 2,283,132; May 12.
Houses, Constructing the foundations of cellarless. H. W. Brown. 2,282,452; May 12.
Hulling machine, Rice. R. Fujioka. 2,282,718; May 12.
Hydraulic brake. M. L. Masteller. 2,282,333; May 12.
Hydraulic brake. K. R. Herman and R. L. Tweedale. 2,282,472; May 12.
Hydraulic device. R. A. Henning. 2,282,652; May 12.
Hydraulic operating mechanism for pumps. R. R. Mast. 2,282,977; May 12.
Hydraulic throttle control. E. F. Pierce. 2,282,529; May 12.
Hydraulic transmission. J. T. Corrigan. 2,282,395; May 12.
Hydraulic wedge assembly. E. M. Pfauser. 2,283,089; May 12.
Hydrocarbon oils, Catalytic conversion of. G. Egloff. 2,282,855; May 12.
Hydrocarbons, Conversion of. J. E. Ahlberg and C. L. Thomas. 2,282,922; May 12.
Hydrocarbons, Conversion of. H. E. Drennan. 2,282,602; May 12.
Hydrocarbons, Depolymerization of high boiling unsaturated. K. Smeykal and K. Reisinger. 2,282,499; May 12.
Hydrocarbons, Stabilization of petroleum. M. A. Dietrich. 2,282,710; May 12.
Hydrometer. L. D. Fitler, Jr. and E. A. Feuss. 2,282,958; May 12.
Ice cream and the like, Shipping and storing method of bulk. R. Stover. 2,282,548; May 12.
Ignition means for radial engines. K. A. Harmon. 2,282,581; May 12.
Illuminating means. H. Epstein. 2,282,325; May 12.
Incinerator. J. H. G. McConechy. 2,282,370; May 12.
Indicator: *See*—
  Auto service indicator. Thermionic indicator.
  Float indicator.
Induction apparatus, Stationary. H. L. Driftmeyer. 2,282,854; May 12.
Ingot. G. A. Dornin. 2,282,462; May 12.
Ingot mold and ingot mold stool. G. A. Dornin. 2,282,463; May 12.
Inhibitor apparatus for boilers, Foam. L. O. Gunderson. 2,282,777; May 12.
Initial holder. O. F. Placco. 2,282,606; May 12.
Inking machine, Quarter lining. J. D. Hossfeld. 2,282,420; May 12.
Inking mechanism for printing machines. W. F. Huck. 2,282,655; May 12.
Insecticidal mercapto-oxazolines. H. A. Bruson. 2,282,931; May 12.
Insoluble monazo compounds, New. M. A. T. Rogers and W. A. Sexton. 2,282,379; May 12.
Instrument, Control. T. R. Harrison. 2,283,059; May 12.
Insulating and refractory plastic. D. A. Howell, P. S. Gilchrist, W. W. Ingle, and L. H. Crosson. 2,282,361; May 12.
Insulator. A. Neubauer. 2,283,083; May 12.
Intermittent feeding device. D. D. Demarest, C. Berendt, and W. Karius. 2,282,945; May 12.
Internal combustion engine. G. R. Ericson and I. E. Coffey. 2,282,311; May 12.
Internally cushioned box. E. M. Thompson. 2,282,908; May 12.
Iron rest, Sad. H. S. Majerus. 2,282,663; May 12.
Ironing machine cabinet. E. J. Te Pas, L. A. Bottinelli, and J. J. McCabe. 2,282,906; May 12.
Isomerization of normal butane. V. Ipatieff and H. Pines. 2,283,142–3; May 12.
Joint: *See*—
  Gland joint.
Joint construction, Expansion. C. L. Methven. 2,282,335; May 12.
Juices, Treating. H. R. Torrence. 2,282,622; May 12.
Kilns, Operating rotary. G. D. Hill. 2,282,584; May 12.
Knitting machine. M. C. Miller. 2,282,668; May 12.
Launching ways, Floating. A. M. Kennedy. 2,282,481; May 12.
Lathe, Crankshaft broaching. W. L. Groene. 2,282,720; May 12.
Leakage reducing means. W. J. Brown. 2,282,319; May 12.
Leather-stretching apparatus. C. H. Johanson and W. Nordstrom. 2,282,478; May 12.
Leg, Artificial. O. H. Erickson. 2,282,952; May 12.
Lifesaving apparatus for boats. A. A. Nelson. 2,282,821; May 12.
Light responsive control system. M. Michel. 2,283,121; May 12.
Lighting apparatus, Store. H. L. Logan and V. Wince. 2,283,010; May 12.
Lighting fixture. H. B. Alderman and R. R. and W. K. Wiley. 2,282,445; May 12.
Liner pulling device. C. White and O. B. Graham. 2,282,629; May 12.
Liquid mixer and heater, Electric. H. Hagen. 2,282,866; May 12.
Loading machine. C. J. Watne. 2,282,626; May 12.
Locating device for use with recording scales. L. F. Munson. 2,283,149; May 12.
Lock. H. Biemer. 2,282,698; May 12.
Loop, Antenna. L. E. Gavitt. 2,282,759; May 12.
Loose leaf binder. W. H. Crowley. 2,282,565; May 12.
Lubricating composition. C. F. Prutton. 2,282,343; May 12.
Lubricating device, Gas holder. D. L. Newkirk. 2,283,084; May 12.
Lubricating means. J. W. MacClatchie. 2,282,488; May 12.
Lubricating valve. S. J. Nordstrom. 2,282,493; May 12.
Lubrication pump. J. Russell. 2,282,429; May 12.
Lubrication, Turbine. J. J. Ring. 2,283,128; May 12.
Machine for chopping foods. A. F. Kaptuller. 2,282,521; May 12.

Machine for cleaning large drain tile and the like. S. O. Blanc. 2,282,600; May 12.
Machine for injection molding of the interlocking elements of slide fasteners. G. Dahlin. 2,282,308; May 12.
Machine for making closure caps. J. C. Gibbs. 2,282,959; May 12.
Magazine reel. D. G. Bernard. 2,282,391; May 12.
Magnetic ore separator. C. R. Begor, Jr. 2,282,510; May 12.
Marine power transmission system. A. B. Schultz. 2,282,612; May 12.
Marking device, Rail. A. E. F. Billstein. 2,282,929; May 12.
Mat, Sanitary door. V. Nelson. 2,282,672; May 12.
Meals, Stabilization of animal. S. Musher. 2,282,786; May 12.
Measuring and control apparatus. E. A. Keeler. 2,282,480; May 12.
Measurement of phase shift. G. B. Engelhardt. 2,282,951; May 12.
Merchandise container. F. Krause. 2,282,483; May 12.
Mercury switch. H. E. Bucklen and U. C. Hedin. 2,282,512; May 12.
Metal and cast article, Casting. W. F. Wright. 2,283,152; May 12.
Metal bodies, Method of and apparatus for treating defective surfaces of. E. W. Deck. 2,282,397; May 12.
Meter: *See*—
Electric meter. Float controlled meter.
Meter-reading apparatus, Automatic. W. Leathers. 2,283,070–2; May 12.
Miles per gallon gauge. L. T. E. Thompson. 2,282,438; May 12.
Milling machine. F. Koch. 2,283,153–4; May 12.
Mining machine. J. D. Russell. 2,282,749; May 12.
Mixer: *See*—
Concrete mixer.
Modulation system. R. E. Taylor. 2,282,347; May 12.
Mold coating, Foundry. W. G. Wellings and D. S. Hake. 2,282,349; May 12.
Molecular weight aliphatic carboxylic acyl halides, Preparation of. F. J. Cahn. 2,282,320; May 12.
Molecular weight resinous substances, Production of high. F. Christmann, H. Lemme, and H. Bueren. 2,282,456; May 12.
Molding machines, Pallet for hollow block. L. E. Schwalbe. 2,282,891; May 12.
Mothproofing. J. W. Creely. 2,282,988; May 12.
Motor: *See*—
Electric motor.
Motor. H. C. Bowen. 2,282,556; May 12.
Motor. A. F. and G. D. Henninger. 2,282,582; May 12.
Motor unit or the like, Electric. E. F. Hubacker. 2,282,586; May 12.
Mounting: *See*—
Chair mounting. Scale mounting.
Ophthalmic mounting. Vise and vise mounting.
Mounting for weft detectors, Detachable. R. G. Turner. 2,283,105; May 12.
Movable support. B. Ames. 2,282,689; May 12.
Mower, Power lawn. E. N. Wahrenbrock. 2,282,837; May 12.
Mucking machine. C. F. Poole. 2,282,378; May 12.
Napkin. E. A. Staples. 2,282,751; May 12.
Nasal filter. C. K. Stotz. 2,282,681; May 12.
Needle, Knitting machine. J. P. Primm. 2,282,824; May 12.
Nozzle, Air injection. F. B. Todd. 2,282,387; May 12.
Nozzle for dusting machines. R. R. Root. 2,282,828; May 12.
Nozzle, Turbine. J. L. Ray. 2,283,126; May 12.
Nut, Clinch. J. P. Burke. 2,282,851; May 12.
Nut device. H. J. Murphy. 2,283,122; May 12.
Oil and lubrication therewith, Lubricating. E. W. Cook. 2,282,707; May 12.
Oil blends with unusual taste and fragrance, Stabilized olive. S. Musher. 2,282,780; May 12.
Oil burner. R. W. De Lancey. 2,282,989; May 12.
Oil, Dehydrating castor. A. Schwarcman. 2,282,892; May 12.
Oil, Enhanced olive flavored. S. Musher. 2,282,782; May 12.
Oil, Imitation olive. S. Musher. 2,282,781; May 12.
Oil, Manufacture of cereal germ. S. Musher. 2,282,797; May 12.
Oil, Peanut and soya bean. S. Musher. 2,282,820; May 12.
Oil, Producing glycerine. S. Musher. 2,282,779; May 12.
Oil, Stabilized. S. Musher. 2,282,813; May 12.
Oil, Synthetic. H. A. Bruson. 2,282,567; May 12.
Oil, Treatment of refined wet processed corn germ. S. Musher. 2,282,817; May 12.
Oils, Method of stabilizing. S. Musher. 2,282,810; May 12.
Oils, Preservation of. S. Musher. 2,282,811; May 12.
Oils, Production of color stabilized petroleum. H. G. M. Fischer and W. James. 2,282,514; May 12.
Oils, Retarding decomposition of. S. Musher. 2,282,816; May 12.
Oils, Stabilization of. S. Musher. 2,282,809; May 12.
Oils, Stabilization of. S. Musher. 2,282,812; May 12.
Oils, Stabilization of. S. Musher. 2,282,814–15; May 12.
Oils, Stabilization of essential. S. Musher. 2,282,808; May 12.
Oils, Stabilization of fish and similar. S. Musher. 2,282,791; May 12.
Oils, Stabilization of glyceride. S. Musher. 2,282,790; May 12.
Oils, Stabilization of glyceride. S. Musher. 2,282,792; May 12.
Oils, Stabilization of viscous petroleum. F. B. Downing and C. J. Pedersen. 2,282,513; May 12.
Oils, Treatment of. S. Musher. 2,282,806; May 12.
Oils, Treatment of hydrogenated. S. Musher. 2,282,819; May 12.
Oils, Treatment of rendered glyceride. S. Musher. 2,282,807; May 12.
1,4,5,8-tetraaminoanthraquinone, Manufacture of. P. Bludow. 2,283,035; May 12.
Ophthalmic mounting. S. E. Bouchard. 2,282,637; May 12.
Optical system. W. B. Rayton. 2,282,677; May 12.
Orienting device and method. R. W. Smith and M. McDannald. 2,282,431; May 12.
Oscillation generator, Relaxation. F. H. Shepard, Jr. 2,282,895; May 12.
Oscillator. P. C. Gardiner. 2,282,861; May 12.
Oscillator, Magnetron. W. Engbert. 2,282,856; May 12.
Oscillator, Relaxation. H. Pieplow. 2,282,340; May 12.
Oven heating system. L. S. Madlem. 2,282,489; May 12.
Package. H. J. Fey. 2,283,001; May 12.
Package. C. S. Stephano. 2,283,102; May 12.
Packing. J. H. Halstead. 2,282,312; May 12.
Pads, Method of and apparatus for making absorbent. H. A. Fine. 2,283,137; May 12.
Paper control mechanism, Wrapping. O. Sandberg. 2,283,096; May 12.
Paper feed device. M. Artzt. 2,282,924; May 12.
Parachute. E. L. Hoffman and J. M. Russell. 2,282,407; May 12.
Parachutes and the like, Suspension lines for. L. P. Frieder. 2,282,717; May 12.
Parasiticide. W. P. ter Horst. 2,282,907; May 12.
Paste, Stabilization of starchy. G. V. Caesar. 2,283,044; May 12.
Pavement structure. E. H. Holmes. 2,282,519; May 12.
Pen, Fountain. R. T. Wing. 2,282,840; May 12.
Pencil, Drafting. G. K. Halbasch. 2,282,574; May 12.
Petroleum products, Sweetening. D. R. Stevens and J. E. Nickels. 2,282,594; May 12.
Phonograph recording and playing device. J. H. Clements and J. T. Goodall. 2,282,940; May 12.
Photography and projection, Stereoscopic. I. E. de Sherbinin. 2,282,947; May 12.
Pickup and delivery system. G. Innes. 2,282,868; May 12.
Picture and memorandum holder. S. I. Clawson. 2,282,939; May 12.
Picture frame. L. F. Glenn. 2,282,864; May 12.
Pictures, Cutting and reducing device for relief. D. Hilbrand. 2,283,064; May 12.
Pie pan lid. L. H. Winters. 2,282,444; May 12.
Piezoelectric crystal apparatus. W. P. Mason. 2,282,369; May 12.
Pigment transfer. J. O. Morrison and B. H. Perkins. 2,282,527; May 12.
Pigment treatment. J. O. Morrison and B. H. Perkins. 2,282,303; May 12.
Pipe: *See*—
Electrical vacuum pipe.
Pipe making machine, Concrete. M. R. McGuire. 2,282,667; May 12.
Pipe slip. G. Miether. 2,283,082; May 12.
Pipes and tubing, Butt-welding. J. L. Anderson. 2,282,508; May 12.
Piston packing. L. S. Guardiola. 2,283,056; May 12.
Piston ring expander. J. L. Ippolito, Jr. 2,282,475; May 12.
Pitot static tube. V. E. Carbonara. 2,283,045; May 12.
Pivot means, Making. L. L. Whitney. 2,282,537; May 12.
Plastic materials, Process and apparatus for forming articles from organic. W. H. Kopitke. 2,282,423; May 12.
Plow, Rotary snow. R. Snook. 2,283,101; May 12.
Plug jackets, Making. F. C. Schueler. 2,282,750; May 12.
Potato-cutting device. S. Bakewell. 2,283,029; May 12.
Power control. M. J. Kittler and S. M. Udale. 2,283,006; May 12.
Power-driven tool-operating machine, Portable. E. M. Drefahl. 2,282,648; May 12.
Power system including rotary transformers. H. G. Moore and F. Felix. 2,282,874; May 12.
Preparations for diagnostic purposes of a biological antigen extract and a substance capable of forming a blood isotonic solution, Stable dry. F. W. Bickert. 2,282,574; May 12.
Press: *See*—
Dry-ice press.
Press. E. H. Hall. 2,282,575; May 12.
Press and the like, Piston operated. V. W. Peterson and O. J. Maha. 2,283,124; May 12.
Press drill, Portable. W. L. Smith. 2,282,535; May 12.
Pressure regulating attachment for liquid containers. H. C. Shores. 2,283,100; May 12.

Printing apparatus. G. O. Frostad and R. J. Nebel. 2,283,003; May 12.
Printing plate and component for making the same. H. Beck and W. Kuehne. 2,282,448; May 12.
Printing transferring machine. A. W. Mills. 2,282,737; May 12.
Process and apparatus for the decortication of ramie. A. Faure. 2,282,715; May 12.
Projection system. F. E. Weller. 2,283,145; May 12.
Projector, Motion picture. O. W. Githens, G. Kende, and E. M. Porter. 2,282,863; May 12.
Projection screen. D. F. Newman. 2,282,876; May 12.
Propeller. H. J. Johnson. 2,283,068; May 12.
Propeller. C. N. Taylor. 2,282,436; May 12.
Propeller, Screw. G. Peterson. 2,283,088; May 12.
Protective device, Electric. A. G. Stimson. 2,282,833; May 12.
Protector: *See*—
Scalp protector.
Pump: *See*—
Diesel engine fuel pump. Suction circulating pump.
Lubrication pump. Vacuum pump.
Pump assembly, Deep well. A. Arutunoff. 2,283,118; May 12.
Pump liner. J. Suth. 2,282,502; May 12.
Pumping apparatus. J. Mann. 2,282,765; May 12.
Pumping system, Vacuum. G. R. Ericson. 2,282,857; May 12.
Pyrolysis of diphenyl-ethane compounds. R. R. Dreisbach. 2,282,327; May 12.
Rack: *See*—
Display rack. Supporting rack.
Racket construction, Playing. H. W. Hall. 2,282,418; May 12.
Radiators, Venting device for. M. J. Masoner. 2,282,734; May 12.
Radio direction indicator system, Automatic. E. J. Hefele. 2,282,402; May 12.
Radio receiver. J. A. van Lammeren and W. H. van der Mey. 2,282,913; May 12.
Radio signal receiving system. W. R. Koch. 2,282,974; May 12.
Radio units, Flush wall mounting for. L. Schenck. 2,282,384; May 12.
Rail bond terminal. E. J. Sabol. 2,283,095; May 12.
Railway train communication apparatus, Control means for. W. P. Place 2,282,377; May 12.
Reaction compound, Subresinous acylation. M. De Groote and B. Keiser. 2,282,644–5; May 12.
Receiving system, Double heterodyne. H. E. Thomas. 2,282,834; May 12.
Receptacle: *See*—
Closed receptacle.
Receptacle cleaning machine. S. R. Howard. 2,282,474; May 12.
Rectifier circuit. D. V. Edwards. 2,282,998; May 12.
Rectifiers and photoelectric selenium cells, Manufacturing selenium. C. Kreutzer. 2,282,523; May 12.
Reel: *See*—
Fishing reel. Magazine reel.
Reel control. D. I. Bohn. 2,283,036; May 12.
Reel control. C. T. Bremiller. 2,283,039; May 12.
Refining process. R. W. Martin. 2,283,156; May 12.
Refrigerating apparatus. P. H. Preble. 2,282,342; May 12.
Refrigerating apparatus. E. R. Wolfert. 2,283,025; May 12.
Refrigerating apparatus and freezing liquid food products. N. H. Rosberg. 2,282,544; May 12.
Refrigerating system. C. T. Oergel. 2,282,880; May 12.
Refrigeration. R. S. Taylor. 2,282,684; May 12.
Refrigeration. A. R. Thomas and P. P. Anderson, Jr. 2,282,503–4; May 12.
Refrigeration apparatus. A. F. Genova. 2,282,862; May 12.
Refrigeration control. S. F. Shawhan. 2,282,385; May 12.
Register. W. C. De Roo. 2,282,946; May 12.
Registering mechanism. E. A. Slye. 2,282,678; May 12.
Regulating apparatus, Electrical. L. K. Hedding. 2,282,471; May 12.
Reinforcing material and producing same. C. H. Luby. 2,282,421; May 12.
Resinous product and making. H. S. Rothrock. 2,282,827; May 12.
Resins, Preparation of phenol-lignin-aldehyde. C. A. Hochwalt and M. Plunguian. 2,282,518; Apr. 12.
Resistance composition and making it. E. F. Dearborn and G. L. Pearson. 2,282,944; May 12.
Resistance device. S. Ruben. 2,282,344; May 12.
Resisters, Making. G. C. Herrick and H. N. Veley. 2,282,328; May 12.
Resistor, Insulated. A. Haberberger. 2,282,651; May 12.
Resistors, Making insulated. S. B. Ehrlich. 2,282,398; May 12.
Relay, Flasher. H. E. Ashworth. 2,282,446; May 12.
Resonant absorption reducing device. D. V. Sinninger. 2,282,386; May 12.
Rice and similar polishings and whey or similar milk solids-not-fat, Stabilized combinations of. S. Musher. 2,282,805; May 12.
Ridge leveling attachment. A. A. Koistinen. 2,282,367; May 12.
Rim punching device. A. E. Bennett. 2,282,636; May 12.
Ring: *See*—
Spinning ring.
Rivet. H. J. Eklund. 2,282,711; May 12.
Rocker bearing. A. N. Porter. 2,282,607; May 12.
Rod: *See*—
Fishing rod.
Roof for liquid storage tanks, Pontoon type floating. J. H. Wiggins. 2,282,772; May 12.
Roofing granule and the like. R. T. Johnston. 2,282,479; May 12.
Roofs, Seal for floating. J. H. Wiggins. 2,282,773; May 12.
Rotary drills or the like, Attachment for. J. W. Kern. 2,282,728; May 12.
Rotary machine. J. S. Morgan, Jr., and J. D. Spalding. 2,282,778; May 12.
Rotary machine. J. D. Spalding. 2,282,617; May 12.
Rubber article, Deposited. A. N. Spanel. 2,282,547; May 12.
Rubber, Treatment of. C. Coleman. 2,282,941; May 12.
Safety apparatus. O. E. Zoder. 2,282,413; May 12.
Safety signal, Auto vehicle. I. G. H. Herwig. 2,282,761; May 12.
Safety throwoff. C. D. Wagner. 2,283,110; May 12.
Salts, Dimethylene quaternary ammonium. L. H. Bock. 2,282,702; May 12.
Sausage linking. W. J. McCue. 2,282,666; May 12.
Scale mounting. C. H. O. Wittig. 2,282,632; May 12.
Scalp massaging apparatus. S. A. Hamilton. 2,282,577; May 12.
Scalp protector. J. L. Shaler and H. M Hess. 2,282,498; May 12.
Screen: *See*—
Projection screen.
Seal for bearings, Lubricant. A. G. F. Wallgren. 2,283,022; May 12.
Seal for bung rings. J. R. Proctor. 2,282,495; May 12.
Sealing composition, Wax. F. W. Padgett. 2,282,375; May 12.
Sealing ring for rotary hydraulic clutches. F. M. Kincaid, Jr. 2,282,543; May 12.
Separable fastener. E. Seltzer. 2,283,018; May 12.
Separator: *See*—
Magnetic ore separator.
Sewing machine. B. T. Leveque. 2,282,073; May 12.
Sewing machine, Tie. M. M. Newman and M. Opper. 2,282,877; May 12.
Selector for diversity receiving system. J. B. Moore. 2,282,526; May 12.
Shaver, Dry. J. H. Rand, Jr., and W. H. Nichols. 2,282,748; May 12.
Shaver, Electric. C. T. Breitenstein. 2,283,038; May 12.
Shaving appliance. G. Dalkowitz. 2,282,943; May 12.
Shaving implement. J. Bruecker. 2,282,639; May 12.
Shaving implement. I. Jepson. 2,282,725; May 12.
Shaving machine. G. F. Bahr. 2,282,539; May 12.
Sheet feeding mechanism for accounting machines. O. J. Sundstrand. 2,282,411; May 12.
Sheet materials, Coated. J. H. McGill and H. J. Tattersall. 2,282,371; May 12.
Sheets, Finishing metal. A. E. Hamilton. 2,282,723; May 12.
Sheet retainer for magazine feed. W. Hopper. 2,282,585; May 12.
Shield, Welder's. R. L. Malcom. 2,283,120; May 12.
Shoe cementing press with controlled press points. A. Walther. 2,283,111; May 12.
Shoe-polishing machine. H. M. Heuver. 2,283,063; May 12.
Shoe machinery. L. S. Linderoth, Jr. 2,282,365; May 12.
Shoes and slippers, Making. D. J. Calderazzo. 2,282,934; May 12.
Shower cabinet. C. E. T. Johnson. 2,282,362; May 12.
Shower cabinet. C. E. T. Johnson. 2,282,329; May 12.
Shutoff valve, Automatic. E. O. Bennett. 2,282,987; May 12.
Shutter. H. M. Vetterlein. 2,282,914; May 12.
Shuttle, Composite. J. A. D'Arcy. 2,282,309; May 12.
Shutter mechanism for cameras. L. T. Johnson and R. A. Jen. 2,282,869; May 12.
Signal: *See*—
Safety signal. Traffic signal.
Signal detecting system. W. R. Koch. 2,282,971; May 12.
Signal system, Direction. R. N. Falge and G. W. Onksen, Jr. 2,282,956; May 12.
Signaling system. D. K. Gannett. 2,282,719; May 12.
Signaling system. P. Holcomb, Jr. 2,282,357; May 12.
Sinks, Making. V. Graf. 2,282,571; May 12.
Sintering device. K. R. Göhre. 2,283,053; May 12.
Sirup injector for semisolid frozen mass. A. E. Hershey. 2,282,313; May 12.
Slicer, shredder, and scraper, Corn. J. B. Lee. 2,282,660; May 12.
Slicer, Vegetable. S. Bakewell. 2,283,030; May 12.
Slitting and rewinding mechanism. A. R. Thiersch and A. C. Wirth. 2,282,909; May 12.
Smoker's combination unit. W. J. Gallagher. 2,282,422; May 12.

Snap fastener, Locking. L. A. Powell. 2,283,125; May 12.
Socket, Lamp. A. G. Mueller. 2,282,875; May 12.
Soil, Composition for treating. O. B. Lean and G. Armstrong. 2,282,732; May 12.
Solder connecting apparatus. R. G. Humphrey. 2,283,158; May 12.
Soundhead. J. C. Griffith. 2,282,960; May 12.
Spark gap device. F. E. Null. 2,283,013; May 12.
Speed controlling device for motor vehicles. O. M. Knight and W. C. Le Mire. 2,282,366; May 12.
Spark arrester. H. Will. 2,282,595; May 12.
Spectrometer. T. A. Cutting. 2,282,643; May 12.
Spider for oil and gas wells. C. J. Gallagher. 2,282,758; May 12.
Spinning ring, Self-lubricating. C. Fillinger. 2,282,468; May 12.
Spout, Filling. R. E. Rosenthal, G. L. Sternfield, and V. J. Peddle. 2,283,093; May 12.
Spring. W. H. Foster. 2,282,716; May 12.
Stabilization against oxidation by use of caramelized milk solids. S. Musher. 2,282,800; May 12.
Starch adhesive composition. W. G. Kunze and R. B. Evans. 2,282,364; May 12.
Steam fractionation. J. E. Jewett. 2,282,982; May 12.
Steel, Alloying. A. Linz. 2,282,486; May 12.
Steel, Blueing. H. L. von Ende. 2,283,109; May 12.
Steel strip, Handling silicon. A. W. Ryan. 2,282,611; May 12.
Stocking. J. P. Mitzel. 2,282,873; May 12.
Stop button, Fall rope carrier. C. C. Sunderland. 2,283,020; May 12.
Suction circulating pump, Automatic. G. Fabig. 2,282,569; May 12.
Sugar bearing materials, Hydrogenolysis of crude. R. N. Du Puis. 2,282,603; May 12.
Sulphonic acid amide compounds and manufacture thereof. P. Pohls. 2,282,769; May 12.
Sulphur-containing organic condensation products, Solutions of. O. E. Dietzel. 2,282,948; May 12.
Support: *See*—
Movable support. Valve support.
Supporting rack, Garment. A. Vanderveld. 2,282,836; May 12.
System for measurement and control. F. W. Whitlock. 2,282,442; May 12.
Switch: *See*—
Electric switch. Mercury switch.
Switch for directional signals. J. F. Day. 2,282,709; May 12.
Switching mechanism and circuit therefor. J. Boysen and E. Horn. 2,282,930; May 12.
System including rotary transformers, Power. J. M. Pestarini. 2,282,822; May 12.
Table: *See*—
Collapsible table. Concentrator table.
Tank gauge. C. W. Ashley. 2,282,690–1; May 12.
Tanning agents, Preparing synthetic. R. C. Swain and P. Adams. 2,282,536; May 12.
Tape, Measuring. C. Ashmusen. 2,282,509; May 12.
Tape, Semiconducting. L. W. Spooner. 2,282,832; May 12.
Telegraph system. P. Holcomb, Jr. 2,282,358; May 12.
Telegraph system, Multichannel. O. E. Pierson, M. D. Adams and W. S. W. Edgar, Jr. 2,282,341; May 12.
Telephone booth. F. S. Corso. 2,282,304; May 12.
Telephone, Hand. O. A. Shann. 2,283,098; May 12.
Telephone system. T. F. Crocker. 2,282,564; May 12.
Telephone system. H. J. Lurk and F. Bloch. 2,282,975; May 12.
Telephone system. R. Schwartz. 2,282,893; May 12.
Telephone system. R. F. Stehlik. 2,282,900; May 12.
Telephone system. H. Töpfer and E. Ehricke. 2,282,911; May 12.
Television receiver. P. Dëserno. 2,282,992; May 12.
Television receiver. H. R. Lubcke. 2,282,487; May 12.
Temperature control of storage batteries. C. Ambruster. 2,282,923; May 12.
Tent. J. E. Soderquist. 2,282,433; May 12.
Terminal strip. W. L. Dunn. 2,283,136; May 12.
Testing machine, Fatique. E. V. Rippingille. 2,282,826; May 12.
Thermal energy indicating apparatus. G. E. Barnhart. 2,282,447; May 12.
Thermionic indicator. A. A. Stuart, Jr. 2,283,103; May 12.
Thermometer construction. F. W. Whitlock. 2,282,441; May 12.
Thermostat. H. D. Matthews. 2,283,075; May 12.
Thermostat. C. R. Palmer. 2,282,426; May 12.
Tile, Protective. E. V. Byers. 2,272,559; May 12.
Tire. G. Austria. 2,282,598; May 12.
Tire casings, Treading. P. E. Hawkinson. 2,282,578–80; May 12.
Tire tread removing machine. E. M. Godfrey, Jr. 2,283,006; May 12.
Toilet flush mechanism. L. L. Ingraham. 2,282,604; May 12.
Tool: *See*—
Cutting tool. Garden tool.
Toothbrush. J. D. Bobbroff. 2,282,700; May 12.
Toothbrush. M. Kraft. 2,282,730; May 12.
Top, Spinning. W. J. Houlihan. 2,282,314; May 12.
Torus, Luminous. J. B. J. M. Abadie. 2,282,693; May 12.
Toy for sports. P. G. Miremont. 2,282,766; May 12.
Toy ring game. J. M. Beatty. 2,282,555; May 12.
Traction device, Surgical. M. H. Herzmark. 2,282,653; May 12.
Tractor trailer combination. J. J. Black. 2,282,414; May 12.
Traffic controlling apparatus, Railway. H. S. Young. 2,282,841; May 12.
Traffic signal, Vehicle. P. S. Nielsen. 2,282,739; May 12.
Trailer. L. W. Wachter. 2,282,506; May 12.
Transmission. H. C. Hill. 2,282,517; May 12.
Transmission. P. Orr. 2,282,591; May 12.
Transmission system. R. H. Herrick. 2,282,403–5; May 12.
Transmission system, Speech. P. G. Edwards. 2,282,465; May 12.
Transmission system, Speech. P. G. Edwards and E. R. Taylor. 2,282,464; May 12.
Transmission system, Speech. E. M. Staples. 2,282,434; May 12.
Transmission system, Speech. E. R. Taylor. 2,282,437; May 24.
Transmission unit, Power. T. R. Black. 2,282,699; May 12.
Transmitter, Directional. E. Gossel. 2,283,054; May 12.
Transmitter, Impulse. F. Wolf. 2,282,916; May 12.
Transparent container. N. E. Clouston. 2,283,046; May 12.
Trap: *See*—
Animal trap.
Tray for laundry hydro-extractors, Receiving and loading. F. W. A. Henrici. 2,282,583; May 12.
Trolley, Motor driven. C. Schroeder. 2,282,985; May 12.
Truck, Car. C. R. Busch. 2,282,558; May 12.
Truck, Hand. O. A. Carlson. 2,282,935; May 12.
Tube: *See*—
Pitot static tube.
Turbine, Elastic fluid. L. A. Sheldon. 2,282,894; May 12.
Turbine regulation and regulating apparatus. J. R. Hagemann. 2,283,138; May 12.
Turpentine, Refining sulphate wood. W. H. Jennings. 2,283,067; May 12.
Typewriting machine. W. A. Dobson. 2,282,994; May 12.
Umbrella, Pocket. P. Badovinac. 2,282,695; May 12.
Umbrella rib tip. J. Levin. 2,283,074; May 12.
Upholstery, Making. J. R. Miller. 2,282,425; May 12.
Utensil, Cooking. W. S. Ginnel. 2,282,400; May 12.
Vacuum cleaner. R. E. Dunbar. 2,282,950; May 12.
Vacuum control of clutch capacity. J. Dolza. 2,282,949; May 12.
Vacuum pump, Rotary. E. J. Beach. 2,283,033; May 12.
Valve: *See*—.
Anti-siphonic valve. Shutoff valve.
Gate valve. Water valve.
Lubricating valve.
Valve. J. D. Mattimore. 2,283,076; May 12.
Valve assembly. W. L. Church and W. A. Holleron. 2,282,455; May 12.
Valve construction. O. C. Martin. 2,282,490; May 12.
Valve for well pumps, Check. R. M. McClure. 2,283,078; May 12.
Valve mechanism. B. C. Hale. 2,282,867; May 12.
Valve mechanism. J. M. Jenkins. 2,282,476; May 12.
Valve mechanism, Combined thermostatic. C. W. Bondurant and E. G. Steffen. 2,282,755; May 12.
Valve support. S. R. Puffer. 2,282,825; May 12.
Vane structure for rotary pumps. W. H. Curtis. 2,282,642; May 12.
Vaporizing apparatus. W. G. Bailey. 2,283,028; May 12.
Vegetative materials, Exploding. S. Musher. 2,282,783; May 12.
Vehicle control system. R. C. Allen and C. F. Kenney. 2,283,133; May 12.
Vehicle dumping system. E. B. Thompson. 2,282,621; May 12.
Vehicle mud guard. W. C. Wilson. 2,282,443; May 12.
Vehicle wheels, Non-skid attachment for. A. E. Gilbert. 2,282,470; May 12.
Vehicle window and ventilating system. N. L. Guy. 2,282,980; May 12.
Vein occluder, Anatomic. T. D. Clark. 2,282,853; May 12.
Vending machine. J. T. Callahan, Jr. 2,282,561; May 12.
Venetian blind slat washing means. R. D. Whann and W. F. Maloney. 2,282,628; May 12.
Venetian blinds, Link for. M. Laird. 2,282,424; May 12.
Ventilating and illuminating device. F. J. Kurth. 2,282,587; May 12.
Ventilator. J. P. Malloy. 2,282,733; May 12.
Vise and vise mounting, Combined portable. W. H. Dunn. 2,282,310; May 12.
Visor. G. S. Macvaugh. 2,282,334; May 12.
Vitamin product. S. Musher. 2,282,795–6; May 12.
Voltage boosting system. P. G. Whitmore. 2,282,838; May 12.
Voltage regulator and the like. L. D. Cahill. 2,282,933; May 12.
Wallboard and the like, Fastener for. C. A. Upson and R. Winship. 2,282,624; May 12.
Wall construction. R. L. Hohl. 2,282,964; May 12.
Washer for retaining pins in couplings, Lock. W. H. Horrocks. 2,282,360; May 12.
Washing and cleaning machine. G. Kuhn. 2,282,332; May 12.

Washing and scrubbing apparatus. C. Mendelson. 2,283,011; May 12.
Washing machine. H. E. Bariffi. 2,282,847; May 12.
Washing mochine. B. L. Enkelke. 2,282,999; May 12.
Waterproofing. L. H. Bock and H. A. Bruson. 2,282,701; May 12.
Water-soluble condensation products. R. Bauer. 2,282,928; May 12.
Water valve, Back. R. H. Shenk. 2,282,532; May 12.
Wattmeter. A. M. Cravath. 2,282,396; May 12.
Wave amplifier, Modulated. H. Chireix and J. Fagot. 2,282,706; May 12.
Wave, Linear transmission or amplification of amplitude-modulated carrier. J. Fagot. 2,282,714; May 12.
Waxing device. E. Russo. 2,282,888; May 12.
Weatherstrip installer's gauge. E. D. Barringer. 2,282,925; May 12.
Weeder. C. C. Calkins and L. A. Hunt. 2,282,560; May 12.
Welding, Electric. J. A. Kratz. 2,282,522; May 12.
Welding, Electric. J. H. Murch. 2,282,339; May 12.
Welding work positioner. G. F. Johnston. 2,283,140; May 12.
Well drilling plant. M. T. Archer. 2,282,597; May 12.
Wells, Cleaning apparatus for. J. D. Collett, Jr. 2,283,048; May 12.
Wheel: *See*—
Airplane wheel. Grinding wheel.
Elastic wheel.
Wheel structure. R. Mayne. 2,282,589; May 12.
Winch. N. P. Larsen and H. J. Troche. 2,282,731; May 12.
Window construction. A. Raymond. 2,282,885; May 12.
Window construction, Sliding. J. F. Levan. 2,283,009; May 12.
Windowpane units, Making multiple. L. W. Shutts. 2,282,831; May 12.
Window sill construction, Vehicle. J. Schunk. 2,282,531; May 12.
Windrower. H. A. Ellefson. 2,282,567; May 12.
Wire carrier system. W. Hagen and T. Nickel. 2,283,057; May 12.
Wrapping machine. O. Sandberg. 2,283,097; May 12.
Wrench. W. A. Pervier. 2,282,743; May 12.
Wringer, Hinged top. N. L. Etten. 2,282,954; May 12.
Wringer mechanism. N. L. Etten. 2,282,953; May 12.
Yarn winding mechanism. O. V. Payne. 2,283,087; May 12.
Zinc formaldehyde sulphoxylate, Preparing. L. C. Hurd. 2,282,965; May 12.

CLASSIFICATION OF PATENTS

ISSUED MAY 12, 1942

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

2— 3: 2,282,830
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37: 2,283,091
48: 2,282,547
247: 2,282,545
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5— 100: 2,282,484
129: 2,283,000
8— 87: 2,282,724
111: 2,283,141
116: 2,282,701
129: 2,282,568
131: 2,282,416
2,282,417
132: 2,282,415
136.5: 2,282,988
9— 3: 2,282,821
10— 86: 2,282,851
12— 37: 2,283,111
123: 2,282,330
15— 4: 2,282,530
16: 2,282,950
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97: 2,283,063
104.30: 2,282,600
137: 2,282,730
139: 2,282,406
140.2: 2,282,672
140.4: 2,283,123
16— 44: 2,282,506
111: 2,282,412
128.1: 2,282,884
17— 45: 2,282,666
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48: 2,282,421
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19— 24: 2,282,715
20— 1.13: 2,282,324
8: 2,283,135
40: 2,282,990
52: 2,282,885
22— 139: 2,282,463
189: 2,282,349
200: 2,282,501
2,283,152
218: 2,282,462
23— 154: 2,282,712
253: 2,282,654
24— 7: 2,282,751
73: 2,283,151
74: 2,282,635
114.5: 2,283,020
115: 2,283,042
135: 2,282,685
205: 2,283,018
206: 2,282,410
2,283,094
263: 2,282,758
2,283,082
25— 1: 2,282,636
22: 2,282,372
37: 2,282,667
41: 2,282,891
26— 55.5: 2,283,087
29— 18: 2,282,723
37: 2,282,550
73: 2,282,728
76: 2,282,648
2,283,005
81: 2,282,397
29— 88.2: 2,282,629
105: 2,282,306
148: 2,282,537
148.2: 2,282,750
30— 2: 2,282,697
43: 2,282,539
2,282,639
2,282,725
2,282,748
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2,283,038
116: 2,282,692
293: 2,282,729
31— 21: 2,282,735
33—126.5: 2,282,771
138: 2,282,509
180: 2,282,925
34— 9: 2,282,303
36— 71: 2,282,934
37— 43: 2,283,101
144: 2,282,389
157: 2,282,752
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40— 68: 2,282,592
2,282,852
95: 2,282,843
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159: 2,282,872
41— 13: 2,282,657
42— 17: 2,282,903
74: 2,282,428
43— 15: 2,283,092
18: 2,282,618
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148: 2,282,828
44— 9: 2,282,936
45— 68: 2,282,906
46— 13: 2,283,104
32: 2,282,881
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64: 2,282,314
47— 61: Pl.Pt.515
48— 174: 2,283,064
49— 5: 2,282,449
7: 2,282,993
18: 2,282,848
42: 2,283,055
50: 2,282,440
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51— 170: 2,282,658
184.3: 2,283,132
185: 2,282,650
249: 2,282,917
2,282,918
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56— 26: 2,282,837
192: 2,282,567
364: 2,282,868
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60— 52: 2,282,977
54.5: 2,282,472
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97: 2,282,597
62— 5: 2,282,504
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6: 2,282,880
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2,282,970
102: 2,282,899
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2,282,862
116: 2,282,342
119: 2,282,503
121: 2,282,460
126: 2,282,879
141: 2,282,627
174: 2,282,548
63— 5: 2,282,563
2,283,015
14: 2,282,336
64— 7: 2,283,139
66— 96: 2,282,668
121: 2,282,824
182: 2,282,873
67— 29: 2,282,850
68— 53: 2,282,847
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73— 51: 2,282,438
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212: 2,283,045
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74— 75: 2,282,999
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77— 32: 2,282,535
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80— 2: 2,282,611
81— 41: 2,282,310
53: 2,282,743
83— 30: 2,282,718
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5: 2,282,360
32: 2,283,122
88— 1: 2,282,677
14: 2,282,643
2,282,741
16: 2,282,991
16.2: 2,282,957
16.6: 2,282,947
19.4: 2,282,863
20: 2,282,494
24: 2,282,337
2,282,768
2,283,145
28.93: 2,282,876
34: 2,282,632
41: 2,282,637
88— 74: 2,282,656
2,283,114
89— 37: 2,282,742
90—13.1: 2,283,064
16: 2,283,153
2,283,154
33: 2,282,720
62: 2,282,473
91— 6: 2,282,661
13: 2,282,628
36: 2,282,888
50: 2,282,420
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2,283,014
92— 46: 2,283,155
93— 2: 2,283,097
36: 2,282,318
94— 8: 2,282,519
18: 2,282,335
95— 8: 2,282,890
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44: 2,283,077
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153: 2,282,785
2,282,803
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154: 2,282,801
155: 2,282,622
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163: 2,282,779
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101— 114: 2,282,609
134.5: 2,282,737
182: 2,283,003
348: 2,282,655
395: 2,282,448
102— 63: 2,283,065
103— 4: 2,282,857
5: 2,282,765
41: 2,282,562
87: 2,283,117
2,283,118
96: 2,282,569
138: 2,282,642
168: 2,282,429
202: 2,283,078
105— 154: 2,282,985
397: 2,282,823
106— 49: 2,282,540
54: 2,282,601
106— 62: 2,282,361
210: 2,282,364
211: 2,283,044
256: 2,282,527
269: 2,282,703
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117— 27: 2,282,479
56: 2,282,432
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95: 2,282,898
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120— 21: 2,282,574
38: 2,283,107
50: 2,282,840
121— 38: 2,283,124
122— 381: 2,282,775
436: 2,282,776
459: 2,282,777
492: 2,282,640
123— 55: 2,282,581
58: 2,282,721
2,282,722
103: 2,282,529
2,283,006
119: 2,282,376
2,282,458
127: 2,282,311
189: 2,282,867
191: 2,282,435
196: 2,282,599
124— 17: 2,282,315
26: 2,282,764
125— 34: 2,283,047
128— 69: 2,282,307
84: 2,282,653
148: 2,282,681
301: 2,282,577
327: 2,282,853
129— 17: 2,282,976
20: 2,283,026
35: 2,282,565
131— 235: 2,282,422
132— 36: 2,282,896
36.1: 2,282,498
135— 1: 2,282,433
25: 2,282,695
36: 2,283,074
136— 6: 2,282,979
64: 2,282,760
161: 2,282,923
137— 122: 2,282,734
139: 2,282,363
158: 2,283,138
138— 46: 2,282,675
139— 223: 2,282,309
269: 2,283,105
372: 2,282,304
401: 2,283,027
140— 3: 2,282,664
145— 29: 2,282,932
145— 108: 2,282,902
146— 3: 2,282,623
4: 2,282,660
52: 2,282,326
169: 2,283,020
2,283,030
189: 2,282,671
192: 2,282,521
148— 7: 2,283,100
21: 2,282,670
2,282,942
149— 21: 2,282,478
152— 40: 2,282,638
41: 2,282,589
340: 2,282,598
415: 2,282,387
153— 16: 2,283,012
33: 2,282,542
154— 28: 2,282,831
29: 2,282,477
2,283,137
33: 2,282,425
155— 22: 2,282,689
77: 2,283,062
176: 2,282,688
179: 2,283,116
156— 17: 2,282,424
158— 28: 2,282,551
94: 2,282,989
164— 61: 2,282,909
68: 2,283,096
166— 2: 2,282,987
18: 2,283,048
167— 22: 2,282,732
33: 2,282,907
2,282,931
66: 2,282,969
78: 2,282,754
169— 11: 2,282,491
170— 156: 2,283,068
164: 2,282,436
172: 2,283,068
171— 34: 2,283,034
95: 2,282,396
2,282,500
118: 2,282,845
119: 2,282,838
2,283,037
206: 2,283,146
223: 2,282,966
314: 2,282,321
324: 2,282,450
327: 2,282,369
172— 36: 2,282,582
2,282,586
126: 2,282,446
179: 2,282,874
239: 2,282,822
245: 2,282,951
274: 2,282,524
289: 2,282,955
173— 324: 2,283,136
328: 2,282,875
332: 2,283,040
174— 5: 2,283,050
21: 2,283,023
139: 2,283,083
140: 2,282,905
175— 41: 2,282,937
41.5: 2,282,858
183: 2,283,086
294: 2,282,348
2,282,986
308: 2,282,520
315: 2,282,459
335: 2,282,762
336: 2,282,933
356: 2,282,854
363: 2,282,471

175— 363: 2,282,998
366: 2,282,523
176— 1: 2,282,693
122: 2,282,325
134: 2,282,533
177— 311: 2,282,956
337: 2,282,761
351: Re.22,095
2,282,480
2,283,070
2,283,071
2,283,072
2,283,103
380: 2,282,916
178— 5.6: 2,282,461
6.6: 2,283,148
7.1: 2,283,157
7.5: 2,282,992
44: 2,283,106
2,282,719
52: 2,282,341
2,282,357
2,282,358
179— 1: 2,282,319
2.5: 2,282,968
3: 2,282,434
2,282,437
2,282,464
7.1: 2,282,975
9: 2,282,911
17: 2,282,803
27: 2,282,564
27.52: 2,282,930
98: 2,283,057
100.3: 2,282,927
2,282,960
103: 2,283,098
115.5: 2,282,839
170: 2,282,403
2,282,404
2,282,405
2,282,465
171: 2,283,016
2,282,380
2,282,381
2,282,382
2,282,383
2,282,605
2,282,649
2,282,706
2,282,714
2,282,870
2,282,886
171.5: 2,282,347
175.2: 2,282,900
183— 4: 2,283,043
7: 2,282,770
64: 2,282,595
184— 104: 2,282,476
105: 2,282,488
2,282,493
188— 56: 2,282,374
78: 2,282,439
79.5: 2,282,620
94: 2,282,652
188— 142: 2,282,938
151: 2,282,615
212: 2,282,558
189— 1.5: 2,282,756
2: 2,282,329
2,282,362
2,282,304
16: 2,283,049
64: 2,282,009
75: 2,282,581
88: 2,282,906
190— 41: 2,282,409
51: 2,282,408
192— .01: 2,282,949
2,283,133
61: 2,282,395
85: 2,282,543
107: 2,282,981
2,283,112
2,283,113
142: 2,282,604
195— 66: 2,282,492
196— 9: 2,282,549
10: 2,282,505
2,282,602
24: 2,282,451
33: 2,282,594
42: 2,282,514
52: 2,282,855
2,282,922
124: 2,282,453
197— 130: 2,282,411
165: 2,282,904
198— 9: 2,282,626
173: 2,282,353
229: 2,282,534
200— 1: 2,282,687
16: 2,282,747
47: 2,282,454
59: 2,282,709
80: 2,282,366
83: 2,282,844
87: 2,282,833
97: 2,282,865
113: 2,282,849
114: 2,283,031
115.5: 2,282,967
141: 2,282,426
152: 2,282,355
2,282,512
201— 63: 2,282,344
2,282,398
2,282,441
76: 2,282,651
2,282,900
2,282,832
2,282,944
202— 57: 2,282,457
2,283,067
72: 2,282,982
204— 81: 2,282,682
2,282,683
140: 2,282,350
2,282,351
206— 1: 2,282,908
48: 2,283,147
205— 56: 2,283,001
209— 222: 2,282,510
474: 2,282,860
475: 2,283,051
210— 155: 2,283,119
162: 2,282,767
211— 168: 2,282,536
213— 142: 2,283,080
214— 13: 2,282,978
46.5: 2,282,021
65.4: 2,282,935
83: 2,282,352
2,282,704
90: 2,282,378
130: 2,282,583
132: 2,282,613
217— 65: 2,282,859
219— 6: 2,282,339
8: 2,282,316
12: 2,283,158
13: 2,282,322
17: 2,283,140
19: 2,282,546
2,282,926
20: 2,282,915
47: 2,282,317
220— 25: 2,283,066
26: 2,282,772
2,282,773
39: 2,282,495
42: 2,282,483
221— 47.5: 2,282,727
80: 2,282,413
130: 2,282,625
224— 45: 2,282,482
225— 11: 2,283,100
226— 2: 2,282,576
2,282,619
20: 2,282,346
58: 2,283,093
229— 23: 2,283,046
47: 2,282,573
51: 2,283,102
53: 2,283,069
230— 58: 2,283,025
69: 2,282,401
111: 2,282,889
114: 2,283,052
132: 2,283,131
153: 2,283,033
206: 2,283,024
234— 54: 2,282,561
70: 2,282,924
2,282,929
235— 129: 2,283,130
144: 2,282,678
236— 15: 2,283,007
46: 2,282,489
79: 2,283,059
78: 2,282,442
2,282,726
81: 2,282,755
238—14.13: 2,283,095
240— 7.7: 2,282,356
48: Re.22,096
240— 78: 2,282,445
2,282,587
2,283,010
242— 64: 2,282,391
75: 2,283,036
2,283,121
84.5: 2,282,995
2,283,039
128: 2,283,079
244— 42: 2,282,516
2,282,647
64: 2,282,669
145: 2,282,407
246— 8: 2,282,377
26: 2,282,841
248— 16: 2,282,699
96: 2,282,842
117.6: 2,282,663
158: 2,282,835
226: 2,282,746
317: 2,283,061
250— 9: 2,282,487
11: 2,282,402
2,282,541
2,283,054
2,283,058
16: 2,282,394
20: 2,282,526
2,282,696
2,282,744
2,282,834
2,282,861
2,282,913
2,282,971
2,282,972
2,282,973
2,282,974
27: 2,282,910
2,282,961
27.5: 2,282,392
2,282,901
2,283,090
33: 2,282,388
2,282,759
2,283,081
36: 2,282,340
2,282,856
2,282,895
40: 2,282,386
88: 2,283,013
162: 2,283,041
174: 2,283,004
251— 11: 2,282,825
40: 2,283,076
69: 2,282,553
102: 2,282,455
123: 2,282,532
252— 14: 2,282,466
32: 2,282,686
47: 2,282,710
48: 2,282,707
51: 2,282,513
54: 2,282,343
243: Re.22,097
253— 69: 2,282,894
253— 78: 2,283,126
117: 2,283,128
143: 2,283,127
254— 104: 2,283,089
122: 2,282,608
186: 2,282,305
187: 2,282,616
2,282,731
192: 2,282,633
255— 1.6: 2,282,431
23: 2,282,617
2,282,778
51: 2,282,757
64: 2,282,596
257— 3: 2,282,878
137: 2,282,373
258— 1: 2,282,920
2,282,921
259— 104: 2,283,008
108: 2,282,866
168: 2,282,694
175: 2,282,467
260— 22: 2,282,827
28: Re.22,003
29: 2,282,948
32: 2,282,882
42: 2,282,536
49: 2,282,928
53: 2,282,518
82: 2,282,456
111: 2,283,156
158: 2,282,379
159: 2,282,323
172: 2,282,331
236.6: 2,282,808
378: 2,283,035
397.7: 2,282,769
398.5: 2,282,790
2,282,792
2,282,797
2,282,806
2,282,807
2,282,809
2,282,810
2,282,811
2,282,812
2,282,813
2,282,814
2,282,815
2,282,816
2,282,817
404: 2,282,644
2,282,645
2,282,646
2,282,702
407: 2,282,892
408: 2,282,320
410: 2,282,557
412.1: 2,282,795
412.8: 2,282,796
428: 2,282,791
429: 2,282,965
566: 2,283,150
614: 2,282,469
635: 2,282,603
260— 668: 2,282,327
676: 2,283,142
2,283,143
678: 2,282,705
683: 2,282,499
800: 2,282,941
261— 50: 2,283,021
262— 28: 2,282,749
263— 19: 2,282,740
32: 2,283,129
53: 2,282,584
265— 5: 2,283,149
12: 2,282,904
14: 2,282,826
46: 2,282,958
266— 21: 2,283,053
267— 47: 2,282,716
268— 46: 2,282,914
270— 96: 2,283,060
271— 41: 2,282,585
272— 36: 2,282,763
273— 58: 2,282,766
73: 2,282,418
75: 2,282,419
80: 2,282,614
85: 2,282,846
99: 2,282,555
136: 2,282,871
274— 13: 2,282,940
277— 20: 2,282,490
55: 2,282,338
279— 51: 2,282,674
2,282,676
280— 33.1: 2,282,414
80: 2,282,753
152: 2,282,443
282— 26: 2,282,610
283— 4: 2,282,630
285— 90: 2,282,354
131: 2,282,641
137: 2,282,552
166: 2,282,738
286— 26: 2,282,312
287— 99: 2,282,393
290— 1: 2,282,963
292— 320: 2,283,125
294— 50.7: 2,282,673
296— 44: 2,282,980
44.5: 2,283,002
297— 16: 2,283,075
298— 22: 2,282,507
299— 20: 2,283,028
301— 5: 2,282,359
40: 2,282,470
308— 21: 2,282,607
36.3: 2,283,022
187: 2,282,883
238: 2,282,345
309— 3: 2,282,502
7: 2,283,056
35: 2,282,475
311— 35: 2,282,665
314— 32: 2,282,522

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,282,303: 34— 9
2,282,323: 260—159
2,282,361: 106— 62
2,282,390: 49— 81
2,282,413: 221— 80
2,282,436: 260— 82
2,282,462: 22—218
2,282,479: 117— 27
2,282,501: 22—200
2,282,513: 252— 51
2,282,522: 314— 32
2,282,527: 106—256
2,282,577: 128—301
2,282,581: 123— 55
2,282,589: 152— 41
2,282,597: 60— 97
2,282,599: 123—196
2,282,621: 214—46.5
2,282,623: 146— 3
2,282,635: 24— 74
2,282,641: 285—131
2,282,642: 103—138
2,282,665: 311— 35
2,282,672: 15—140.2
2,282,674: 279— 51
2,282,696: 252— 32
2,282,699: 73—315
2,282,691: 73—315
2,282,692: 30—116
2,282,764: 124— 26
2,282,774: 73—290
2,282,779: 99—163
2,282,786: 99—157
2,282,797: 260—398.5
2,282,820: 99—163
2,282,825: 251— 11
2,282,842: 246— 96
2,282,859: 217— 65
2,282,876: 88—28.93
2,282,883: 308—187
2,282,914: 268— 46
2,282,948: 260— 29
2,282,958: 265— 46
2,282,970: 62— 8
2,282,980: 296— 44
2,282,992: 178—7.5
2,283,000: 5—129
2,283,011: 68— 85
2,283,021: 261— 50
2,283,023: 174— 21
2,283,041: 250—162
2,283,044: 106—211
2,283,055: 102— 63
2,283,095: 238—14.13
2,283,109: 148— 7
2,283,125: 292—320
2,283,132: 51—184.3
2,283,152: 22—200
2,283,156: 260—111

U. S. GOVERNMENT PRINTING OFFICE: 1942

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

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Albertson & Company, Inc., Sioux City, Iowa. Goods used in the servicing of automobiles and internal combustion engines. Serial No. 429,553; May 19. Class 23.

American-Marietta Company, Chicago, Ill. Paints. Serial No. 447,633; May 19. Class 16.

American Merri-Lei Corporation, New York, N. Y. Toy mechanical musical instrument. Serial No. 451,884; May 19. Class 36.

American Newspapers, Inc., New York, N. Y. Newspaper. Serial No. 450,131; May 19. Class 38.

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Archer Dental Mfg. & Supply Co. (See Blackwood, H. C.)

Atlantic Refining Company, The, Philadelphia, Pa. Gasoline. Serial No. 448,887; May 19. Class 15.

Automatic Electrical Devices Co., The, Cincinnati, Ohio. Alarm devices. Serial No. 450,997; May 19. Class 21.

Bailey, Otis M., Bristol, R. I. Men's, women's and children's aprons and women's evening gowns and ball gowns. Serial No. 441,078; May 19. Class 39.

Bee Hat & Cap Co., The, St. Louis, Mo. Men's and boys' hats. Serial No. 449,757; May 19. Class 39.

Bega Brothers Products Corp., New York, N. Y. Electric motors and parts thereof for sewing machines. Serial No. 449,662; May 19. Class 21.

Birch, Ray R., doing business as Ray Birch Service, East Liverpool, Ohio. Automobiles and accessories. Serial No. 445,713; May 19. Class 19.

Blackwood, H. C., doing business as Archer Dental Mfg. & Supply Co., Chicago, Ill. Dental impression trays. Serial No. 451,739; May 19. Class 44.

Blackwood, H. C., doing business as Archer Dental Mfg. & Supply Co., Chicago, Ill. Denture material. Serial No. 451,740; May 19. Class 44.

Blue Swan Mills, Inc., New York, N. Y. Ladies' and children's underwear. Serial No. 452,003; May 19. Class 39.

Botany Worsted Mills, Passaic, N. J. Woolen piece goods. Serial No. 451,027; May 19. Class 42.

Bradley, Milton, Company, Springfield, Mass. Paper and card cutters and trimmers. Serial No. 449,889; May 19. Class 23.

Brown Shoe Company, Inc., St. Louis, Mo. Men's, women's, and boys' shoes. Serial No. 451,101; May 19. Class 39.

Burnham, Edward M., San Francisco, Calif. Totem poles for store advertising. Serial No. 447,428; May 19. Class 50.

Cannon Shoe Company, Baltimore, Md. Shoes. Serial No. 451,546; May 19. Class 39.

Carson Pirie Scott & Company, Chicago, Ill. Men's sweaters. Serial No. 451,926; May 19. Class 39.

Chicago Mail Order Company, Chicago, Ill. Douche and vaginal suppositories. Serial No. 450,616; May 19. Class 6.

Chicago Mail Order Company, Chicago, Ill. Women's shoes. Serial No. 451,337; May 19. Class 39.

Clear Fork Coal Company, Middlesboro, Ky. Coal. Serial No. 450,618; May 19. Class 1.

Cobblers, Inc., Los Angeles, Calif. Shoes and slippers. Serial No. 451,592; May 19. Class 39.

Commercial Solvents Corporation, New York, N. Y. Radiator preparations. Serial No. 445,686; May 19. Class 6.

Consumers Cooperative Association, North Kansas City, Mo. Periodical. Serial No. 450,274; May 19. Class 38.

Dary, Homer H., & Son, Racine, Wis. Shampoo. Serial No. 448,131; May 19. Class 6.

David Crystal Inc., New York, N. Y. Ladies' and misses' dresses, dress ensembles consisting of dress and coat. Serial No. 452,009; May 19. Class 39.

Denison Engineering Company, The, Columbus, Ohio. Hydraulic pumps, hydraulic presses, hydraulic kiln car propellers, etc. Serial No. 447,229; May 19. Class 23.

De Rio Negro, Baron, Sociedad de Responsabilidad Limitada, Buenos Aires, Argentina. Wines. Serial No. 440,906; May 19. Class 47.

Dewar, John, & Sons Limited, Perth, Scotland, and London, England. Whiskey. Serial No. 450,226; May 19. Class 49.

Dreyfus, L. A., Company, Rosebank, Staten Island, N. Y. Chewing gum base. Serial No. 446,101; May 19. Class 1.

Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Carrying cases, and hand straps and neck straps. Serial No. 451,802; May 19. Class 3.

Evans, Nat, doing business as Nip-N-Tuck Styles, New York, N. Y. Ladies', misses', and girls' dresses and aprons. Serial No. 451,548; May 19. Class 39.

Fawcett Publications, Inc., Greenwich, Conn. Publication. Serial No. 451,380; May 19. Class 38.

Frank, Julius, Furs, Inc., New York, N. Y. Coats, capes, jackets and muffs made of fur. Serial No. 451,675; May 19. Class 39.

Freixas, Antonio, Buenos Aires, Argentina. Liquor. Serial No. 447,304; May 19. Class 49.

General Electric Company, Schenectady, N. Y. Electric fans and parts thereof. Serial No. 451,711; May 19. Class 21.

General Machinery Corporation, Hamilton, Ohio. Hydraulic forging-presses, forging-machines, steam-hammers, etc. Serial No. 452,014; May 19. Class 23.

Granular Foods, Inc., New York, N. Y. Preparation of cocoanut dextrose and other ingredients for making a food beverage. Serial No. 436,996; May 19. Class 46.

Grapevine Coal Company, Madisonville, Ky. Coal. Serial No. 451,267; May 19. Class 1.

Great Lakes Coal & Dock Co., St. Paul, Minn. Fuel. Serial No. 446,392; May 19. Class 1.

Hall, Franklin E., Chicago, Ill. Medical apparatus. Serial No. 447,480; May 19. Class 44.

Handihold Box Company, The, New York, N. Y. Folding boxes. Serial No. 451,819; May 19. Class 2.

Harris, Frank, doing business as Frank Harris Laboratories, Los Angeles, Calif. Polish for furniture, automobiles, and the like. Serial No. 447,565; May 19. Class 16.

Hayhawk Mfg. Co. Inc., New York, N. Y. Accessory boxes. Serial No. 445,423; May 19. Class 2.

Hecht, George J., New York, N. Y. Strings of beads. Serial No. 445,941; May 19. Class 28.

Hercules Powder Company, Wilmington, Del. Cartridges. Serial No. 450,898; May 19. Class 9.

Herman, Fred, and Sons, Chicago, Ill. Sodium hypochloride disinfectant. Serial No. 451,974; May 19. Class 6.

Hood Rubber Company, Wilmington, Del., and Watertown, Mass. Floor and wall covering materials. Serial No. 451,820; May 19. Class 20.

International Nickel Company, Inc., The, New York, N. Y. Castings. Serial No. 450,101; May 19. Class 14.

Interstate Shade Cloth Company, Hoboken, N. J. Window shade rollers. Serial No. 452,049; May 19. Class 32.

Jantzen Knitting Mills, Portland, Oreg. Foundation garments. Serial No. 451,304; May 19. Class 39.

Keynote Fashions, Inc., New York, N. Y. Women's, misses', and junior misses' dresses, blouses, skirts, etc. Serial No. 451,683; May 19. Class 39.

Lande & Miskend, Inc., New York, N. Y. Women's and misses' underwear, slips, nightgowns, etc. Serial No. 451,553; May 19. Class 39.

La Paz, S. A., Havana, Cuba. Maltless beverages. Serial No. 442,324; May 19. Class 45.

Laucks, I. F., Inc., Seattle, Wash. Glues. Serial No. 451,872; May 19. Class 5.

Manawui Patent Corporation, Boston, Mass. Processed ramie fibers. Serial No. 451,647; May 19. Class 1.

Mayflower Dress Co., Inc., New York, N. Y. Ladies' and misses' work garments. Serial No. 450,053; May 19. Class 39.

Merz & Co. Chemical Works, Inc., Newark, N. J. Chemical preparations. Serial No. 441,586; May 19. Class 6.

Murray, D. J., Manufacturing Co., Wausau, Wis. Wood cutting and treating equipment. Serial No. 449,382; May 19. Class 23.

Mutual Products Company, Minneapolis, Minn. Stock food. Serial No. 451,773; May 19. Class 46.

Nathanson, Eve, East Greenwich, R. I. Jewelry. Serial No. 450,484; May 19. Class 28.

National Foam System, Inc., Philadelphia, Pa. Fire extinguishing chemicals and compositions. Serial No. 450,513; May 19. Class 6.

National Garage Tools Company. (See Zoerman, John H.)

National Store Fixture Company, Baltimore, Md. Extruded opaque, transparent and translucent plastic material. Serial No. 451,014; May 19. Class 12.

Nettleton, A. E., Company, Syracuse, N. Y. Ladies', men's and boys' shoes and slippers. Serial No. 435,947; May 19. Class 39.

Nielson, August F., Co., Inc., New York, N. Y. Bathrobes, house coats, and crib covers, etc., for infants and children. Serial No. 450,974; May 19. Class 39.
Nip-N-Tuck Styles. (See Evans, Nat.)
Onita Specialty Co., Brooklyn, N. Y. Bath robes, sacks, buntings, etc. Serial No. 450,811; May 19. Class 39.
Palmetex Corporation, The, Jacksonville, Fla. Wall board, acoustic tile, insulation, etc. Serial No. 450,860; May 19. Class 12.
Parfums Weil Paris, Inc., New York, N. Y. Perfumes. Serial No. 451,875; May 19. Class 6.
Pasco Packing Association, Dade City, Fla. Canned orange juice, canned grapefruit juice, canned blended orange and grapefruit juice, etc. Serial No. 451,609; May 19. Class 46.
Penn Tobacco Company, Wilkes-Barre, Pa. Tobacco. Serial No. 451,610; May 19. Class 17.
Placentia Pioneer Valencia Growers Assn., Fullerton, Calif. Fresh citrus fruit. Serial Nos. 451,346–8; May 19. Class 46.
Powder Metals and Alloys, Inc., New York, N. Y. Metal powders. Serial No. 451,502; May 19. Class 14.
Rainbow Children Dress Co., New York, N. Y. Girls' and children's dresses, pinafores, blouses, etc. Serial No. 451,689; May 19. Class 39.
Rauschenberg, G. H., Co., Dalton, Ga. Infants' chenille robes. Serial No. 451,939; May 19. Class 39.
Rauschenberg, G. H., Co., Dalton, Ga. Ladies' chenille robes. Serial No. 451,940; May 19. Class 39.
Rauschenberg, G. H., Co., Dalton, Ga. Misses' chenille robes. Serial No. 451,941; May 19. Class 39.
Rego Accessories Mfg., Inc., New York, N. Y. Shopping, utility, and beach bags. Serial No. 451,540; May 19. Class 2.
Reliable Shoulder Pad, Inc., New York, N. Y. Shoulder pads, muff pads, and garment shields. Serial No. 451,690; May 19. Class 40.
Renault, L., N., & Sons, Inc. Egg Harbor City, N. J. Vermouth. Serial No. 448,523; May 19. Class 47.
Riverside & Dan River Cotton Mills, Inc., Danville, Va., and New York, N. Y. Piece goods. Serial No. 451,119; May 19. Class 42.
Roger & Gallet, New York, N. Y. Perfumes, toilet waters, powder and rouge containers, etc. Serial No. 449,435; May 19. Class 6.
Rollins Hosiery Mills, Inc., Des Moines, Iowa. Hosiery. Serial No. 451,878; May 19. Class 39.
Rubinstein, Harry, New York, N. Y. Arm slings. Serial No. 451,691; May 19. Class 44.
Schenley Distilleries, Inc., New York, N. Y. Distillers' dried corn solubles for use as cattle feed and/or as an ingredient thereof. Serial No. 451,760; May 19. Class 46.
Scherl, Morris, New York, N. Y. Cigars. Serial No. 450,429; May 19. Class 17.
Societe Anonyme des Anciens Etablissements Hotchkiss & Cie, Paris, France. Automobiles complete, chassis of automobiles, radiators for automobiles, etc. Serial No. 447,315; May 19. Class 19.
Solar Corporation, Milwaukee, Wis. Ready mixed paints, paint enamels, varnishes, etc. Serial No. 450,666; May 19. Class 16.
Southern Dyestuff Corporation, Charlotte, N. C. Various chemicals. Serial No. 451,558; May 19. Class 6.
Standard B Vitamins, Inc., New York, N. Y. Vitamin tablets. Serial No. 451,454; May 19. Class 6.
Sun Oil Company, Philadelphia, Pa. Lubricating oils for textiles. Serial No. 451,125; May 19. Class 15.
Swett's, Dr., Root Beer Co., Inc., New York, N. Y. Root beer. Serial No. 451,248; May 19. Class 45.
Texas Phenothiazine Company, Fort Worth, Tex. Anthelmintic livestock and poultry medicine. Serial No. 451,455; May 19. Class 6.
Torrington Company, The, Torrington, Conn. Cycle pedals. Serial No. 416,169; May 19. Class 19.
Turco Products, Inc., Los Angeles, Calif. Detergent cleaning compounds. Serial No. 450,753; May 19. Class 4.
V. & E. Engineering Co., Pasadena, Calif. Drafting machines and drawing instruments. Serial No. 451,401; May 19. Class 26.
Vanderbilt, R. T., Company, Inc., New York, N. Y. Material used in compounding natural, synthetic, and reclaimed rubber. Serial No. 451,698; May 19. Class 6.
Vegex Corporation, New York, N. Y. Yeast-vegetable extract. Serial No. 451,585; May 19. Class 46.
Victor Insulators, Inc., Victor, N. Y. Wet process porcelain high tension electric insulators. Serial No. 447,501; May 19. Class 21.
Wawak Company Inc., Chicago, Ill. Piece goods. Serial No. 451,128; May 19. Class 42.
Wayne Soap Company, The, Detroit, Mich. Liquid protective coating in the nature of a lacquer. Serial No. 450,172; May 19. Class 16.
Webb, A. M., & Co., Inc., New York, N. Y. Pajamas, nightshirts, nightgowns, etc. Serial No. 429,199; May 19. Class 39.
Well Surveys, Incorporated, Tulsa, Okla. Electrical instruments for surveying water, oil, gas, and other earth-bored wells. Serial No. 447,355; May 19. Class 26.
Westinghouse Air Brake Company, The, Wilmerding, Pa. Piston packing cups, gaskets, piston packing seals, etc. Serial No. 444,114; May 19. Class 35.
Whiting Corporation, Harvey, Ill. Furnaces, rotary furnaces, steel converters, etc. Serial No. 448,123; May 19. Class 34.
Zoerman, John H., doing business as National Garage Tools Company, Jackson, Mich. Garage service tools. Serial No. 448,885; May 19. Class 23.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Anti-mycotic powder. 395,324; May 19; Serial No. 450,466; published Mar. 10, 1942. Class 6.
Abraham & Straus, Inc., Brooklyn, N. Y. Blouses, sweaters, outer skirts, etc. 395,373; May 19. Class 39.
Acampo Winery and Distilleries, Incorporated, Acampo, Calif. Wines. 395,246; May 19; Serial No. 446,983; published Mar. 10, 1942. Class 47.
Acoustic Consultants, Inc., New York, N. Y. Apparatus functioning to record and reproduce sound electrically. 395,218; May 19; Serial No. 438,062; published Mar. 10, 1942. Class 21.
American Education Press, Inc., Columbus, Ohio. Series of text books. 395,271; May 19; Serial No. 448,843; published Mar. 10, 1942. Class 38.
American Lady Corset Co., Detroit, Mich. Corsets, brassières, bandeaux, etc. 395,360; May 19. Class 39.
Andrews & Knowles Produce Company, Inc., Mount Olive, N. C. Raw potatoes. 395,242; May 19; Serial No. 445,788; published Mar. 10, 1942. Class 46.
Artistic Neckwear Mfg. Co., The, Baltimore, Md. Neckties. 395,233; May 19; Serial No. 442,297; published Oct. 14, 1941. Class 39.
Atlantic Mills, Providence, R. I., assignor to A. D. Juilliard & Co., Inc., New York, N. Y. Woolen piece goods. 155,199; renewed May 23, 1942.
Atlas Distributing Corporation, Worcester, Mass. Wines. 395,297; May 19; Serial No. 449,750; published Mar. 10, 1942. Class 47.
Ballack, Helen A., Inc., Detroit, Mich. Laxative compounds. 395,338; May 19; Serial No. 450,673; published Mar. 10, 1942. Class 6.
Barnett, Charles, doing business as Charles Barnett Company, New York, N. Y. Dry vermouth. 395,363; May 19. Class 47.
Bemis, Kenneth B., Oakland, Calif. Sandwiches. 395,251; May 19; Serial No. 447,930; published Mar. 10, 1942. Class 46.
Berman, Helen, doing business as Character Products, New York, N. Y. Preparation for asthma and bronchitis. 395,314; May 19; Serial No. 450,044; published Mar. 10, 1942. Class 6.
Bethlehem Fabricators, Inc., Bethlehem, Pa. Structural shapes for buildings. 159,659; renewed Oct. 3, 1942.
Bird-Archer Co., The, New York, N. Y. Preparation used to condition water used in boilers. 395,315; May 19; Serial No. 450,046; published Mar. 10, 1942. Class 6.
Black Prince Company, Inc., The, Nutley, N. J. Rock and rye liqueur. 395,382; May 19. Class 49.
Bolser Corporation, The, Cedar Falls, Iowa. Oil filters and parts therefor. 395,344; May 19. Class 23.
Boss Manufacturing Company, The, Kewanee, Ill., and Brooklyn, N. Y., to The Boss Manufacturing Company, Kewanee, Ill. Fabric gloves and mittens. 158,902–3; renewed Sept. 19, 1942.
Bowey's, Inc. (See Horine & Bowey Company.)
Brach, E. J., & Sons, Chicago, Ill. Candy. 395,274; May 19; Serial No. 448,959; published Mar. 10, 1942. Class 46.
Bradley, Milton, Company, Springfield, Mass. Modeling clay and modeling materials, etc. 395,301; May 19; Serial No. 449,884; published Mar. 10, 1942. Class 1.
Bradley, Milton, Company, Springfield, Mass. Drawing paper, tracing paper, etc. 395,302; May 19; Serial No. 449,890; published Mar. 10, 1942. Class 37.
Brownie Food Company, Detroit, Mich. Strained foods for babies. 395,213; May 19; Serial No. 427,790; published Mar. 10, 1942. Class 46.
Buffalo Optical Company, Inc., Buffalo, N. Y. Glass paper weights shaped to form optical lenses. 159,294; renewed Sept. 26, 1942.
Bu-Tay Products, Inc., Huntington Park, Calif. Combination washing, blueing, and water softener. 395,278; May 19; Serial No. 449,036; published Mar. 10, 1942. Class 6.
Calico Printers' Association, Limited, The, Manchester, England. Piece goods. 395,380; May 19. Class 42.
Candymasters Incorporated, Minneapolis, Minn. Candy bars. 395,303; May 19; Serial No. 449,892; published Mar. 10, 1942. Class 46.
Cannon Shoe Company, Baltimore, Md. Shoes. 395,307; May 19; Serial No. 449,987; published Mar. 10, 1942. Class 39.

Carney Cement Company, Mankato, Minn., by change of name to The Carney Company. Cement. 159,677; renewed Oct. 3, 1942.
Cavalier Corporation, Chattanooga, Tenn. Consoles. 395,348; May 19. Class 32.
Central Paper Company, Menasha, Wis. Gummed paper. 159,309; renewed Sept. 26, 1942.
Chalmers Chemical Company, Newark, N. J. Paint removers and varnish removers. 158,630; renewed Sept. 12, 1942.
Champagne Vintners. (See Renault, L. N., & Sons, Inc.)
Character Products. (See Berman, Helen.)
Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Whisk brooms, clothes brushes, and hair brushes. 395,235; May 19; Serial No. 443,113; published Feb. 24, 1942. Class 29.
Cheney Brothers, Manchester, Conn., and New York, N. Y. Neckties, cravats, and scarfs. 395,256; May 19; Serial No. 448,280; published Mar. 3, 1942. Class 39.
Cheney Brothers, Manchester, Conn., and New York, N. Y. Neckties. 395,275; May 19; Serial No. 448,963; published Mar. 3, 1942. Class 39.
Cheney Brothers, Manchester, Conn., and New York, N. Y. Neckties. 395,283; May 19; Serial No. 449,125; published Mar. 3, 1942. Class 39.
Chicopee Sales Corporation, New York, N. Y. Babies' diapers, diaper outfits, and diaper pads. 395,254; May 19; Serial No. 448,184; published Mar. 3, 1942. Class 39.
Churchill, Owen P., Los Angeles, Calif. Fins for attachment to the feet for use as aids in swimming. 395,345; May 19. Class 22.
Cia Llcorera Julia. (See Julia, Angel P.)
Citrus Products Company, Chicago, Ill. Beverages, sirups, and concentrates. 158,917; renewed Sept. 19, 1942.
Clay-Adams Co., Inc., New York, N. Y. Dental, medical, and surgical appliances, etc. 395,221; May 19; Serial No. 439,330; published Mar. 10, 1942. Class 44.
Cleveland Co-Operative Stove Company, The, Cleveland, Ohio. Gas fired ovens and burners, the burners comprising essentially a gas burner of metal, etc. elements. 395,243; May 19; Serial No. 445,802; published Mar. 10, 1942. Class 34.
Clover Cravat Company. (See Shaffer, Elmer E.)
Cobblers, Inc., Los Angeles, Calif. Shoes and slippers. 395,300; May 19; Serial No. 449,829; published Mar. 3, 1942. Class 39.
Cock 'N Bull Products, Los Angeles, Calif. Ginger beer. 395,298; May 19; Serial No. 449,763; published Mar. 10, 1942. Class 45.
Codex Book Co., Inc., New York, N. Y., to Codex Book Company, Inc., Norwood, Mass. Ruled sheets to be used for making graphic charts. 156,209; renewed June 20, 1942.
Cohen, David, & Son, New York, N. Y. Hats, suits, overcoats and topcoats. 395,377; May 19. Class 39.
Colgate & Co., Jersey City, N. J., and New York, N. Y., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Perfumes, perfumed powders, and toilet waters. 158,923; renewed Sept. 19, 1942.
Colgate-Palmolive-Peet Company. (See Lournay, Inc., assignor.)
Colonial Cedar Company. (See Putman, Charles E.)
Colson Corporation, The, Elyria, Ohio. Bicycles. 395,249; May 19; Serial No. 447,096; published Mar. 10, 1942. Class 19.
Columbia Mills, Inc., The, New York, N. Y. Window-shade cloth in the piece. 159,682; renewed Oct. 3, 1942.
Columbian Carbon Company, New York, N. Y. Particulate carbon having a general use in the industrial arts. 395,304; May 19; Serial No. 449,894; published Mar. 10, 1942. Class 6.
Columbus Manufacturing Company, Columbus, Ga. Cotton sheetings. 159,683; renewed Oct. 3, 1942.
Comfy Manufacturing Company, The, Baltimore, Md. Furniture slip covers. 395,239; May 19; Serial No. 444,633; published Mar. 10, 1942. Class 32.
Consumers Products Co., Brooklyn, assignor, by mesne assignments, to Pilser Brewing Co., Inc., New York, N. Y. Malt sirup. 154,005; renewed Apr. 4, 1942.
Coty, Inc., New York, N. Y. Face powder, dusting powder, etc. 395,334–5; May 19; Serial Nos. 450,621–2; published Mar. 10, 1942. Class 6.
Covina Orange Growers Association, assignor to Covina Orange Growers Association, Covina, Calif. Oranges. 156,221; renewed June 20, 1942.
Crowe, Charles M., St. Louis, Mo. Scripts for radio broadcasts. 395,238; May 19; Serial No. 443,598; published Mar. 10, 1942. Class 38.
Crystal, David, Inc., New York, N. Y. Textile fabrics in the piece. 395,346; May 19. Class 42.
Cutter Laboratories, Berkeley, Calif. Vaccine for the prevention of cholera. 395,325; May 19; Serial No. 450,472; published Mar. 10, 1942. Class 6.
Cutter Laboratories, Berkeley, Calif. Mixed bacterin for the prevention and treatment of respiratory infection in cattle. 395,326; May 19; Serial No. 450,473; published Mar. 10, 1942. Class 6.
Dandro-Nox Co., The, Baltimore, Md. Face powder, skin whitening cream, eyebrow pencil, etc. 395,336; May 19; Serial No. 450,642; published Mar. 10, 1942. Class 6.
D'Arriago Brothers Co., San Jose, Calif. Fresh vegetables. 395,252; May 19; Serial No. 447,936; published Mar. 10, 1942. Class 46.
Day, Son & Hewitt, Limited, London, England. Blood purifiers, tonics, and conditioners for horses, cows, calves, etc. 158,931; renewed Sept. 19, 1942.
Dearborn Chemical Company, Chicago, Ill. Boiler compound for the prevention of deleterious action of water in steam boilers. 395,247; May 19; Serial No. 447,012; published Mar. 10, 1942. Class 6.
Dearborn Supply Co., Chicago, Ill. Depilatory. 155,403; renewed May 30, 1942.
De Long Hook and Eye Company, The, Philadelphia, Pa. Hooks and eyes, hook and eye tape, and safety pins. 158,932; renewed Sept. 19, 1942.
Deutsch, Jacob, doing business as L. A. Wholesale Shoe Co., Los Angeles, Calif. Children's shoes. 395,372; May 19. Class 39.
Dictaphone Corporation, Bridgeport, Conn. Electrical sound recording machines and parts thereof. 395,290; May 19; Serial No. 449,546; published Mar. 10, 1942. Class 21.
Diehnelt, Walter, doing business as Honey Acres, Menominee Falls, Wis. Honey and candy. 395,284; May 19; Serial No. 449,131; published Mar. 10, 1942. Class 46.
Diosma Laboratories, Inc., Bloomfield and Newark, N. J. Medical compound for treating arthritis. 395,291; May 19; Serial No. 449,605; published Mar. 10, 1942. Class 6.
Dominion Corset Company, Limited, Quebec, Canada. Corsets, girdles, and brassières. 395,236; May 19; Serial No. 443,247; published Mar. 3, 1942. Class 39.
Dougherty's, J. A., Sons, Incorporated, Distillers, Philadelphia, Pa. Whiskey. 395,217; May 19; Serial No. 438,040; published Mar. 3, 1942. Class 49.
Duquesne Manufacturing Company, The. (See Finkel, Abraham D., assignor.)
Eastern-Columbia, Inc. Photographic prints of furniture. 395,268; May 19; Serial No. 448,757; published Mar. 3, 1942. Class 38.
Electrical Publications, Inc., Chicago, Ill. Periodical. 395,381; May 19. Class 38.
Ellis, Eugene, Co., Inc., New Orleans, La. Cotton piece goods. 159,691; renewed Oct. 3, 1942.
Embalmers' Supply Company, The, Westport, Conn. Deodorant powder. 395,306; May 19; Serial No. 449,958; published Mar. 10, 1942. Class 6.
Emerson Phonograph Company, Inc., by consolidation to Emerson Radio and Phonograph Corporation, New York, N. Y. Phonographs and phonograph-records. 155,412; renewed May 30, 1942.
Emes Kosher Products. (See Shapera, Charles M.)
Endo Products, Inc., New York, N. Y. Hemorrhagic producing drug. 395,328; May 19; Serial No. 450,506; published Mar. 10, 1942. Class 6.
Endo Products, Inc., New York, N. Y. Preparation consisting of a combination of vitamins. 395,333; May 19; Serial No. 450,584; published Mar. 10, 1942. Class 6.
Everett, Silas K., New York, N. Y. Outer shirts, slacks, suits, etc. 395,240; May 19; Serial No. 444,638; published Mar. 3, 1942. Class 39.
Famous-Barr Company. (See May Department Stores Company, The.)
Fawcett Publications, Inc., Greenwich, Conn. Publication. 395,357–8; May 19. Class 38.
Finkel, Abraham D., doing business as Sorg Manufacturing Company, Pittsburgh, assignor to The Duquesne Manufacturing Company, New Kensington, Pa. Aprons, dresses, petticoats, etc. 158,664–5; renewed Sept. 12, 1942.
Floden Bros., Modesto, Calif. Dressed turkeys. 395,276; May 19; Serial No. 448,968; published Mar. 10, 1942. Class 46.
Forest City Bit & Tool Co., Rockford, Ill. Augers, drills, chisels, etc. 156,673; renewed July 11, 1942.
Fox, Ralph T., doing business as The Fox Company, Newfield, N. J. Poultry feed. 395,316; May 19; Serial No. 450,048; published Mar. 10, 1942. Class 46.
Franklin Simon & Co. Inc., assignor to Franklin Simon & Co., Inc., New York, N. Y. Clothing. 159,103; renewed Sept. 19, 1942.
Friz, Carlos A., New York, N. Y. Onyx. 395,383; May 19. Class 1.
Fruit Industries, Ltd., San Francisco, Calif., and Chicago, Ill., and Brooklyn, N. Y. Wines. 395,253; May 19; Serial No. 448,133; published Mar. 3, 1942. Class 47.
Gardner, George Milton, New York, N. Y. Publication. 395,347; May 19. Class 38.
Gemloid Coporation, Elmhurst, Long Island, N. Y. Signalling devices. 395,219; May 19; Serial No. 439,018; published Mar. 10, 1942. Class 21.
General Tire & Rubber Company, The, Akron, Ohio. Molded rubber goods. 395,212; May 19; Serial No. 426,695; published Mar. 10, 1942. Class 13.
Gilda, Audrey, Products, Inc., New York, N. Y. Hair Lotions. 395,310; May 19; Serial No. 450,012; published Mar. 10, 1942. Class 6.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Publications. 395,263; May 19; Serial No. 448,557; published Mar. 3, 1942. Class 38.

Graham Co., Inc., The, New York, N. Y. Dried lentils, dried pea beans, etc. 395,257; May 19; Serial No. 448,290; published Mar. 10, 1942. Class 46.
Graves, Charles W., Logansport, Ind., assignor to Lexington Mill & Elevator Co., Lexington, Nebr. Cereals and breads. 153,190; renewed Mar. 14, 1942.
Hadfields Limited, Sheffield, England. Instruments and appliances used and prescribed by dentists and surgeons. 159,704; renewed Oct. 3, 1942.
Hall, C. M., Lamp Company, Detroit, Mich. Apparatus consisting of a plurality of electric lamps. 395,340–1; May 19. Class 21.
Hammett, A. B., Inc., Los Angeles, Calif. Girdles, panty girdles, corsets, etc. 395,245; May 19; Serial No. 446,872; published Mar. 3, 1942. Class 39.
Harnischfeger Corporation. (See Milwaukee Electric Crane & Mfg. Co., Inc., assignor.)
Higginbotham-Bailey-Logan Company, Inc., Dallas, Tex. Silk piece goods and other fabrics. 395,370; May 19. Class 42.
Hill Distributing Company, The, Columbus, Ohio. Wines. 395,230; May 19; Serial No. 440,935; published June 17, 1941. Class 47.
Historical James River Plantations Co., Portsmouth, Va. Chests, tables, beds, chairs, etc. 395,232; May 19; Serial No. 441,435; published Mar. 10, 1942. Class 32.
Honey Acres. (See Kiehnelt, Walter.)
Horine & Bowey Company, Chicago, Ill., by change of name to Bowey's, Inc. Flavoring extracts, marshmallow dressing, fudges, etc. 154,577; renewed Apr. 18, 1942.
Howard Preserving Company, Inc., Miami, Fla. Fruit juice cocktails. 395,293; May 19; Serial No. 449,637; published Mar. 10, 1942. Class 46.
Hy-Ray Products Co. (See McConomy, Paul L.)
Independent Importing Co., Boston, Mass. Canned dog and cat food. 395,343; May 19. Class 46.
International Plastic Corporation, Chicago, Ill. Transparent pressure-sealing adhesive tape. 395,261; May 19; Serial No. 448,475; published Mar. 10, 1942. Class 5.
International Shoe Company, St. Louis, Mo. Inner soles for shoes. 395,216; May 19; Serial No. 437,683; published Mar. 3, 1942. Class 39.
Ivanhoe Mutual Orange Association, Ivanhoe, Calif. Fresh citrus fruits. 395,296; May 19; Serial No. 449,724; published Mar. 10, 1942. Class 46.
Jacobs, B. & J., Company, Cincinnati, Ohio. Air conditioning ducts. 395,227; May 19; Serial No. 439,869; published Mar. 10, 1942. Class 34.
Java Coffee Company, Newark, N. J. Coffee. 395,387; May 19. Class 46.
Judge & Dolph, Ltd., Chicago, Ill. Malt-like bottled beverages and concentrates. 395,289; May 19; Serial No. 449,531; published Mar. 10, 1942. Class 45.
Juilliard, A. D., & Co. (See Atlantic Mills, assignor.)
Julia, Angel P., doing business as Cia Licorera Julia, Barrio Obrero, Santurce, P. R. Rum. 395,373; May 19; Serial No. 448,944; published Mar. 10, 1942. Class 49.
Kaufmann, Harry A., doing business as The Kaufmann Company, Detroit, Mich. Storm windows and screens. 395,354; May 19. Class 12.
Kelly, Henry, Importing & Distributing Co. Inc., New York, N. Y. Brandy. 395,264; May 19; Serial No. 448,615; published Mar. 3, 1942. Class 49.
Kerotest Manufacturing Company. (See Pittsburgh Reinforced Brazing & Machine Company.)
Knapp-Monarch Company, doing business as Kwikway Company, St. Louis, Mo. Electric hand drills. 395,237; May 19; Serial No. 443,232; published Mar. 10, 1942. Class 21.
Kresge, S. S., Company, Detroit, Mich. Shirts, shorts, underwear, etc. 395,241; May 19; Serial No. 445,607; published Mar. 10, 1942. Class 39.
Kwikway Company. (See Knapp-Monarch Company.)
L. A. Wholesale Shoe Co. (See Deutsch, Jacob.)
La Marquise Slipper Co., Inc., New York, N. Y. Shoes and slippers. 395,222; May 19; Serial No. 439,350; published Mar. 3, 1942. Class 39.
Lanteen Medical Laboratories, Inc., Chicago, Ill. Publication. 395,375; May 19. Class 38.
Lederle Laboratories, Inc., New York, N. Y. Vitamin products and specifically a pharmaceutical product containing vitamins A and D. 395,269; May 19; Serial No. 448,762; published Mar. 10, 1942. Class 6.
Lewis & Locke, Inc., New York, N. Y. Fabric gloves. 395,229; May 19; Serial No. 440,865; published Aug. 19, 1941. Class 39.
Lexington Mill & Elevator Co. (See Graves, Charles W., assignor.)
Libbey-Owens-Ford Glass Company, Toledo, Ohio. Laminated safety glass. 395,305; May 19; Serial No. 449,942; published Mar. 10, 1942. Class 33.
Linde Air Products Company, The, New York, N. Y. Oxygen. 395,306–9; May 19; Serial Nos. 450,006–7; published Mar. 10, 1942. Class 6.
Lindsay Ripe Olive Company, Lindsay, Calif. Canned olives. 395,353; May 19. Class 46.
Litchfield Produce Co., Litchfield, Minn. Eggs, live and dressed poultry, turkeys, ducks, etc. 395,231; May 19; Serial No. 441,210; published Mar. 10, 1942. Class 46.
Look, Inc., Des Moines, Iowa. Section of a magazine. 395,225; May 19; Serial No. 439,721; published Mar. 3, 1942. Class 38.
Lord Baltimore Bottling Company. (See Schonhoff, John Z.)
Lournay, Inc., New York, N. Y., assignor, by mesne assignments, to Colgate-Palmolive-Peet Company, Jersey City, N. J. Rouge, cold cream, lip sticks, etc. 158,481; renewed Sept. 5, 1942.
Lucky Heart Laboratories, Inc., Memphis, Tenn. Perfume. 395,292; May 19; Serial No. 449,647; published Mar. 10, 1942. Class 6.
Luse-Stevenson Co., Chicago, Ill. Acoustic tile. 395,364; May 19. Class 12.
Lyndon Chemical Company, The, Dayton, Ohio. Ointment. 154,088; renewed Apr. 4, 1942.
Lyndon Chemical Company, The, Dayton, Ohio. Veterinary ointment. 158,254; renewed Aug. 29, 1942.
M & N Cigar Manufacturers, Inc., Cleveland, Ohio. Cigars, cigarettes, and cheroots. 395,286; May 19; Serial Nos. 449,185–6; published Mar. 10, 1942. Class 17.
Marathon Paper Mills Company, Rothschild, Wis. Laminated boards made from sheets bonded with lignin resin. 395,270; May 19; Serial No. 448,764; published Feb. 24, 1942. Class 12.
Marilyn Hat Co. Inc., New York, N. Y. Ladies' and misses' hats. 395,356; May 19. Class 39.
Marine Magnesium Products Corporation, South San Francisco, Calif. Magnesium hydroxide paste. 395,220; May 19; Serial No. 439,252; published Mar. 10, 1942. Class 6.
Marshall Field & Company, Chicago, Ill. Lace curtains. 395,374; May 19. Class 42.
Marshall Field & Company, Chicago, Ill. Lace curtains. 395,378–9; May 19. Class 42.
Massasoit Manufacturing Company, Fall River, Mass., assignor, by mesne assignments, to Massasoit Company, New York, N. Y. Mops. 157,147; renewed July 25, 1942.
Mastic Asphalt Corporation, South Bend, Ind. Building siding material. 395,228; May 19; Serial No. 440,605; published Feb. 24, 1942. Class 12.
Maupai, F. P., Dyeing Co., Inc., West New York, N. J. Fabric piece goods. 395,362; May 19. Class 42.
May Department Stores Company, The, New York, N. Y., Baltimore, Md., Cleveland, Ohio, Los Angeles, Calif., and Denver, Colo., also doing business as Famous-Barr Company, St. Louis, Mo., and also as The M. O'Neil Co., Akron, Ohio. Furniture. 395,311; May 19; Serial No. 450,017; published Mar. 10, 1942. Class 32.
McConomy, Paul L., doing business as Hy-Ray Products Co., Philadelphia, Pa. Cream. 159,939; renewed Oct. 10, 1942.
McElroy, Robert H., Jr., Chicago, Ill. Candy. 395,211; May 19; Serial No. 422,590; published Mar. 10, 1942. Class 46.
McKesson & Robbins, Inc. (See Renault, L. N., & Sons, Inc., assignor.)
McLoughlin Bros., Inc., Springfield, Mass. Books. 159,425; renewed Sept. 19, 1942.
Messel, Jerome A., Baltimore, Md. Sun tan and sunburn lotion. 395,337; May 19; Serial No. 450,654; published Mar. 10, 1942. Class 6.
Milwaukee Electric Crane & Mfg. Co., Inc., West Allis, assignor, by mesne assignments, to Harnischfeger Corporation, Milwaukee, Wis. Electric crane. 156,710; renewed July 11, 1942.
Minot, Hooper & Company, New York, N. Y. Cotton piece goods. 159,030; renewed Sept. 19, 1942.
Monsanto Chemical Company, St. Louis, Mo. Monocalcium phosphate and other chemicals. 395,321; May 19; Serial No. 450,401; published Mar. 10, 1942. Class 6.
Moore, Lucas E., Stave Co., of Ga., Mobile, Ala. Wooden barrels, and staves, etc., 395,258; May 19; Serial No. 448,296; published Mar. 10, 1942. Class 2.
Mother Hubbard Distributors Inc., New York, N. Y. Wheat germ. 395,280; May 19; Serial No. 449,081; published Mar. 10, 1942. Class 46.
Murry, Geo. E., Pequea, Pa. Liniment. 158,034; renewed Aug. 22, 1942.
New England Stationery Company, assignor to New England Stationery Company, Boston, Mass. Stationery. 156,371–2; renewed June 20, 1942.
New York Times Company, The, New York, N. Y. Newspaper column. 395,355; May 19. Class 38.
Newman, Milton, doing business as Quaker Maid Mills, Philadelphia, Pa. Toilet lid covers, bath mats, and rugs. 395,349; May 19. Class 42.
Nicholas & Co., Incorporated Importers, New York, N. Y. Whiskey. 395,368; May 19. Class 49.
Nickelberry, N. O., Mineral Wells, Tex. Nose drops. 395,330; May 19; Serial No. 450,571; published Mar. 10, 1942. Class 6.
Novelty Press Inc., New York, N. Y. Publication of cartoons and editorial matter. 395,285; May 19; Serial No. 449,149; published Mar. 3, 1942. Class 38.
O'Donnell Shoe Company, St. Paul, Minn., and Humboldt, Tenn. Boots and shoes. 395,384; May 19. Class 39.
Ohio Leather Company, The, Girard, Ohio. Leather. 395,350; May 19. Class 1.
Old Ranchers Company, Ontario, Calif. Canned olives. 395,299; May 19; Serial No. 449,804; published Mar. 10, 1942. Class 46.
O'Neil, M., Co., The. (See May Department Stores Company.)

Orthmann Laboratories Inc., The, Milwaukee, Wis. Waterproof grease, leather dressing and boot and shoe cleaners. 395,376; May 19. Class 4.
Pabst Brewing Company. (See Premier Malt Products Co. of Ohio, Inc., assignor.)
Pan American Band Instrument and Case Company, Elkhart, Ind. Mouthpieces for musical instruments. 395,260; May 19; Serial No. 448,370; published Mar. 10, 1942. Class 36.
Parke, Davis & Company, Detroit, Mich. Preparation used in the treatment of syphilitic and related types of infections. 395,327; May 19; Serial No. 450,489; published Mar. 10, 1942. Class 6.
Parker Brothers, Salem, Mass., to Parker Brothers, Inc., Portland, Maine, and Salem, Mass. Card games. 157,557; renewed Aug. 8, 1942.
Pascual, Mateo M., Hato Rey, P. R. Rum. 395,371; May 19. Class 49.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Cotton piece goods. 395,351; May 19. Class 42.
Peoples Distributing Company, Inc., Covington, Ky., and Cincinnati, Ohio. Wines. 395,266; May 19; Serial No. 448,681; published Mar. 10, 1942. Class 47.
Pharis Tire and Rubber Company, The, Newark, Ohio. Rubber and rubber containing pneumatic tires and tubes for vehicle wheels. 395,361; May 19. Class 35.
Pillsbury Flour Mills Company, Minneapolis, Minn. Wheat flour. 395,294; May 19; Serial No. 449,698; published Mar. 10, 1942. Class 46.
Pilser Brewing Co., Inc. (See Consumers Products Co., Inc., assignor.)
Pittsburgh Reinforced Brazing & Machine Company, Pittsburgh, Pa., by change of name, to Kerotest Manufacturing Company. Valves. 159,477; renewed Sept. 19, 1942.
Plough, Inc., Memphis, Tenn. Soothing, cooling, and astringent powder. 395,323; May 19; Serial No. 450,456; published Mar. 10, 1942. Class 6.
Pollack, Max, & Co., Inc., New York, N. Y. Sewing threads. 159,739; renewed Oct. 3, 1942.
Premier Malt Products Co. of Ohio, Inc., Chicago, assignor to Pabst Brewing Company, Peoria Heights, Ill. Malt sirup. 159,481–3; renewed Sept. 26, 1942.
Putman, Charles E., doing business as Colonial Cedar Company, Seattle, Wash. Stained cedar shingles and shakes. 395,352; May 19. Class 12.
Quaker Maid Mills. (See Newman, Milton.)
Rand McNally & Company, Chicago, Ill. Printed coupon books in booklet form, printed signs for windows, etc. 395,287; May 19; Serial No. 449,214; published Mar. 10, 1942. Class 38.
Renault, L. N., & Sons, Inc., doing business as Champagne Vintners, Egg Harbor City, N. J., assignor to McKesson & Robbins, Inc., New York, N. Y. Wines. 395,366; May 19. Class 47.
Reynolds Metals Company, Richmond, Va. Plaster reinforcement and plaster base. 395,267; May 19; Serial No. 448,738; published Feb. 24, 1942. Class 12.
Riverside & Dan River Cotton Mills, Inc., Danville, to Riverside & Dan River Cotton Mills, Inc., Danville, Va., and New York, N. Y. Chambray and cheviots in the piece. 157,572; renewed Aug. 8, 1942.
Robertson, H. H., Company, Pittsburgh, Pa. Cellular steel beam units for building purposes. 395,248; May 19; Serial No. 447,031; published Feb. 24, 1942. Class 12.
Rohrer, Wayne L., Lancaster, Pa. Milk. 160,002; renewed Oct. 10, 1942.
Rott, Edward H., Bogota, Colombia. Bi-monthly publication. 395,244; May 19; Serial No. 446,827; published Mar. 3, 1942. Class 38.
Roynat Corporation, New York, N. Y. Pressed wood fiber board. 395,365; May 19. Class 12.
Rubinstein, Helena, Inc., New York, N. Y. Lipsticks, face powders, face creams, etc. 395,331; May 19; Serial No. 450,573; published Mar. 10, 1942. Class 6.
Schering Corporation, Bloomfield, N. J. Medicinal, pharmaceutical, and chemical preparations. 395,319; May 19; Serial No. 450,212; published Mar. 10, 1942. Class 6.
Schonhoff, John Z., doing business as Lord Baltimore Bottling Company, Baltimore, Md. Ginger ale. 158,083; renewed Aug. 22, 1942.
Scott-Burr Stores Corporation, The, Chicago, Ill. Coats, dresses, hats, etc. 395,262; May 19; Serial No. 448,528; published Mar. 3, 1942. Class 39.
Sears, Roebuck and Co., Chicago, Ill. Infants' dresses, suits, gowns, etc. 395,265; May 19; Serial No. 448,660; published Mar. 3, 1942. Class 39.
Shaffer, Elmer E., doing business as Clover Cravat Company, Philadelphia, Pa. Neckties. 395,234; May 19; Serial No. 442,604; published Sept. 30, 1941. Class 39.
Shapera, Charles M., doing business as Emes Kosher Products, Chicago, Ill. Gelatine desserts. 395,250; May 19; Serial No. 447,642; published Mar. 10, 1942. Class 46.
Shaw-Barton, Inc., Coshocton, Ohio. Wall calendars. 395,312–13; May 19; Serial Nos. 450,027–8; published Mar. 10, 1942. Class 38.
Skybryte Company, The, Cleveland, Ohio. Preparation for cleaning and removing dirt and other substances from glass and other glazed surfaces. 159,525; renewed Sept. 26, 1942.
Smith, Kline & French Laboratories, Philadelphia, Pa. Medicine for stimulation of the nervous system, etc. 395,332; May 19; Serial No. 450,575; published Mar. 10, 1942. Class 6.
Societe Anonyme de Magenta-Epernay, Epernay, France. Champagne. 395,342; May 19. Class 47.
Sorg Manufacturing Company. (See Finkel, Abraham D.)
Springfield Leather Products Company, The, Springfield, Ohio. Cigarette cases. 395,226; May 19; Serial No. 439,731; published Mar. 10, 1942. Class 8.
Spry, Constance, Perfumeries Corporation, New York, N. Y. Perfume. 395,270; May 19; Serial No. 448,784; published Jan. 20, 1942. Class 6.
Stauffer Chemical Company, San Francisco, Calif. Insecticides. 395,295; May 19; Serial No. 449,705; published Mar. 10, 1942. Class 6.
Steck Company, The, Austin, Tex. School books. 395,368; May 19. Class 38.
Street & Smith Publications, Inc., New York, N. Y. Periodical publication. 395,272; May 19; Serial No. 448,926; published Mar. 10, 1942. Class 38.
Swedlin, J., Inc., New York, N. Y. Stuffed toys. 395,322; May 19; Serial No. 450,433; published Mar. 10, 1942. Class 22.
Taylor, Jane, Los Angeles, Calif. Bulletins. 395,385; May 19. Class 38.
Toro, Sylvia, doing business as Toro Products, Brooklyn, N. Y. Skin and scalp lotion. 395,320; May 19; Serial No. 450,254; published Mar. 10, 1942. Class 6.
Tourlaine Food Products, Inc., Chicago, Ill. Maltless, nonalcoholic beverages sold as soft drinks. 395,214; May 19; Serial No. 435,595; published Apr. 8, 1941. Class 45.
Towmotor Co., Cleveland, Ohio. Industrial power trucks. 395,255; May 19; Serial No. 448,270; published Mar. 10, 1942. Class 19.
Triangle Publications, Inc., Philadelphia, Pa. Monthly magazine devoted to motion picture industry. 395,277; May 19; Serial No. 448,990; published Mar. 10, 1942. Class 38.
Tribune Company, Chicago, Ill. Newspaper column. 395,288; May 19; Serial No. 449,362; published Mar. 3, 1942. Class 38.
Tri-Plex Shoe Company, Philadelphia, Pa., to Tri-Plex Shoe Company, Boston, Mass. Boots and shoes. 157,225; renewed July 25, 1942.
Troy Chemical Co., Binghamton, N. Y. Ointment used as an aid for cuts, etc. 395,329; May 19; Serial No. 450,523; published Mar. 10, 1942. Class 6.
Uhlemann Optical Co., Chicago, Ill. Ophthalmic mountings. 395,339; May 19. Class 26.
Ulmann, Bernhard, Co. Inc., New York, N. Y. Rugs. 395,367; May 19. Class 42.
United Cigar-Whelan Stores Corporation, New York, N. Y. Laxative. 395,224; May 19; Serial No. 439,504; published Mar. 10, 1942. Class 6.
United Cigar-Whelan Stores Corporation, New York, N. Y. Intestinal lubricant. 395,223; May 19; Serial No. 439,500; published Mar. 10, 1942. Class 6.
United Cork Companies, Lyndhurst, N. J., and New York, N. Y., to United Cork Companies, Kearny, N. J. Cork bulletin boards. 160,033; renewed Oct. 10, 1942.
United States Dental Manufacturing Company, The, Cleveland, Ohio. Dental tools. 158,556–7; renewed Sept. 5, 1942.
United States News Publishing Corporation, Washington, D. C. Sections of periodical publications. 395,317; May 19; Serial No. 450,171; published Mar. 10, 1942. Class 38.
United States Rubber Company, New York, N. Y. Jar rings. 395,359; May 19. Class 35.
Vita-Ray Corporation, The, Lowell, Mass. Cosmetic and toilet preparations. 395,281; May 19; Serial No. 449,109; published Mar. 10, 1942. Class 6.
Vita-Yeast Company, Ltd., New York, N. Y. Dried yeast. 395,279; May 19; Serial No. 449,073; published Mar. 10, 1942. Class 46.
Wallace, Fred H., Frankford, Mo. Chemical compound used in desulphating lead plate batteries. 395,210; May 19; Serial No. 418,426; published Sept. 12, 1939. Class 6.
West Disinfecting Company, New York, to West Disinfecting Company, Long Island City, N. Y. Paper towels. 159,581; renewed Sept. 26, 1942.
Westgate Sea Products Co., San Diego, Calif. Canned fish. 395,215; May 19; Serial No. 437,588; published June 10, 1941. Class 46.
Western Cooperage Company, Portland, Oreg. Battery separators. 395,259; May 19; Serial No. 448,350; published Mar. 10, 1942. Class 21.
Wholesaler Warehouse, Manchester, Iowa. Hog feeds. 395,386; May 19. Class 46.
Williams Products Company, Columbus, Ga. Foot powder. 395,318; May 19; Serial No. 450,173; published Mar. 10, 1942. Class 6.
Williams, R. C., & Company, Inc., New York, N. Y. Liqueur. 395,282; May 19; Serial No. 449,111; published Mar. 10, 1942. Class 49.
Winthrop Chemical Company, Inc., by consolidation to Winthrop Chemical Company, Inc., New York, N. Y. Antiseptic and alterative. 158,148; renewed Aug. 22, 1942.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Clay and modeling materials, etc., Modeling. Milton Bradley Company. 395,301; May 19; Serial No. 449,884; published Mar. 10, 1942.
Leather. Ohio Leather Company. 395,350; May 19.
Onyx. C. A. Friz. 395,383; May 19.

CLASS 2

Barrels, staves, etc., Wooden. Lucas B. Moore Stave Co., of Ga. 395,258; May 19; Serial No. 448,296; published Mar. 10, 1942.

CLASS 4

Grease, leather dressing, and boot and shoe cleaners, Waterproof. Orthmann Laboratories Inc. 395,376; May 19.
Preparation for cleaning and removing dirt and other substances from glass and glazed surfaces. Skybryte Company. 159,525; renewed Sept. 26, 1942.

CLASS 5

Adhesive tape, Transparent pressure-sealing. International Plastic Corporation. 395,261; May 19; Serial No. 448,475; published Mar. 10. 1942.

CLASS 6

Antiseptic and alterative. Winthrop Chemical Company. 158,148; renewed Aug. 22, 1942.
Bacterin for the prevention and treatment of respiratory infection in cattle, Mixed. Cutter Laboratories. 395,326; May 19; Serial No. 450,473; published Mar. 10, 1942.
Blood purifiers, tonics, and conditioners for horses, cows, calves, etc. Day, Son & Hewitt, Limited. 158,931; renewed Sept. 19, 1942.
Carbon having a general use in the industrial arts, Particulate. Columbian Carbon Company. 395,304; May 19; Serial No. 449,894; published Mar. 10, 1942.
Chemical compound used in desulphating lead plate batteries. F. H. Wallace. 395,210; May 19; Serial No. 418,426; published Sept. 12, 1939.
Compoennd for the prevention of deleterious action of water in steam boilers, Boiler. Dearborn Chemical Company. 395,247; May 19.
Cosmetic and toilet preparations. Vita-Ray Corporation. 395,281; May 19; Serial No. 449,109; published Mar. 10, 1942.
Cream. Paul L. McConomy. 159,939; renewed Oct. 10, 1942.
Depilatory. Dearborn Supply Co. 155,403; renewed May 30, 1942.
Drug, Hemorrhagic producing. Endo Products, Inc. 395,328; May 19; Serial No. 450,506; published Mar. 10, 1942.
Insecticides. Stauffer Chemical Company. 395,295; May 19; Serial No. 449,705; published Mar. 10, 1942.
Laxative. Unted Cigar-Whelan Stores Corporation. 395,224; May 19; Serial No. 439,504; published Mar. 10, 1942.
Laxative compounds. Helen A. Ballack, Inc. 395,338; May 19; Serial No. 450,673; published Mar. 10. 1942.
Liniment. G. E. Murry. 158,034; renewed Aug. 22, 1942.
Lipsticks, face powders, face creams, etc. Helena Rubinstein, Inc. 395,331; May 19; Serial No. 450,573; published Mar. 10, 1942.
Lotion, Skin and scalp. S. Toro. 395,320; May 19; Serial No. 450,254; published Mar. 10, 1942.
Lotion, Sun tan and sunburn. J. A. Meusel. 395,337; May 19.
Lotions, Hair. Gilda Audrey Products, Inc. 395,310; May 19; Serial No. 450,012; published Mar. 10, 1942.
Lubricant, Intestinal. United Cigar-Whelan Stores Corporation. 395,223; May 19; Serial No. 439,500; published Mar. 10. 1942.
Magnesium hydroxide paste. Marine Magnesium Products Corporation. 395,221; May 19; Serial No. 439,252; published Mar. 10. 1942.
Medical compound for treating arthritis. Diosma Laboratories, Inc. 395,291; May 19; Serial No. 449,605; published Mar. 10, 1942.
Medicinal, pharmaceutical, and chemical preparations etc. Schering Corporation. 395,319; May 19; Serial No. 450,212; published Mar. 10, 1942.
Medicine for stimulation of the nervous system, etc. Smith, Kline & French Laboratories. 395,332; May 19; Serial No. 450,575; published Mar. 10, 1942.
Monocalcium phosphate and other chemicals. Monsanto Chemical Company. 395,321; May 19; Serial No. 450,401; published Mar. 10, 1942.
Nose drops. N. O. Nickelberry. 395,330; May 19; Serial No. 450,571; published Mar. 10. 1942.
Ointment. Lyndon Chemical Company. 154,088; renewed Apr. 4, 1942.
Ointment used as an aid for cuts, etc. Troy Chemical Co. 395,329; May 19; Serial No. 450,523; published Mar. 10, 1942.
Ointment, Veterinary. Lyndon Chemical Company. 158,254; renewed Aug. 29, 1942.
Oxygen. Linde Air Products Company. 395,308–9; May 19; Serial Nos. 450,006–7; published Mar. 10, 1942.
Perfume. Lucky Heart Laboratories, Inc. 395,292; May 19; Serial No. 449,647; published Mar. 10, 1942.
Perfumes, perfumed powders, and toilet waters. Colgate & Co. 158,923; renewed Sept. 19, 1942.
Powder, Anti-mycotic. Abbott Laboratories. 395,324; May 19; Serial No. 450,466; published Mar. 10, 1942.
Powder, Deodorant. Embalmers' Supply Company. 395,306; May 19; Serial No. 449,958; published Mar. 10, 1942.
Powder, dusting powder, etc., Face. Coty, Inc. 395,334–5; May 19; Serial Nos. 450,621–2; published Mar. 10, 1942.
Powder, Foot. Williams Products Company. 395,318; May 19; Serial No. 450,173; published Mar. 10. 1942.
Powder, skin whitening cream, etc., Face. Dandro-Nox Co. 395,336; May 19; Serial No. 450,642; published Mar. 10, 1942.
Powder, Soothing, cooling, and astringent. Plough, Inc. 395,323; May 19; Serial No. 450,456; published Mar. 10 1942.
Preparation consisting of a combination of vitamines. Endo Products, Inc. 395,333; May 19; Serial No. 450,584; published Mar. 10, 1942.
Preparation for asthma and bronchitis. H. Berman. 395,314; May 19; Serial No. 450,044; published Mar. 10, 1942.
Preparation used in the treatment of syphilitic and related types of infections. Parke, Davis & Company. 395,327; May 19; Serial No. 450,489; published Mar. 10, 1942.
Preparation used to condition water used in boilers. Bird-Archer Co. 395,315; May 19; Serial No. 450,046; published Mar. 10, 1942.
Rouge, cold cream, lip sticks, etc. Lournay, Inc. 158,481; renewed Sept. 5, 1942.
Vaccine for the prevention of cholera. Cutter Laboratories. 395,325; May 19; Serial No. 450,472; published Mar. 10, 1942.
Vitamin products and specifically a pharmaceutical product containing vitamins A and D. Lederle Laboratories, Inc. 395,269; May 19; Serial No. 448,762; published Mar. 10, 1942.
Washing, blueing, and water softener, Combination. Bu-Tay Products, Inc. 395,278; May 19; Serial No. 449,036; published Mar. 10, 1942.

CLASS 8

Cigarette cases. Springfield Leather Products Company. 395,226; May 19; Serial No. 439,731; published Mar. 10, 1942.

CLASS 12

Beam units for building purposes, Cellular steel. H. H. Robertson Company. 395,248; May 19; Serial No. 447,031; published Feb. 24, 1942.
Building siding material. Mastic Asphalt Corporation. 395,228; May 19; Serial No. 440,605; published Feb. 24, 1942.
Cement. Carney Cement Company. 159,677; renewed Oct. 3, 1942.
Fiber board. Pressed wood. Roynat Corporation. 395,365; May 19.
Laminated boards. Marathon Paper Mills Company. 395,270; May 19; Serial No. 448,764; published Feb. 24, 1942.
Plaster reinforcement and plaster base. Reynolds Metals Company. 395,267; May 19; Serial No. 448,738; published Feb. 24, 1942.
Shingles and shakes, Stained cedar. C. E. Putman. 395,352; May 19.
Structural shapes for buildings. Bethlehem Fabricators, Inc. 159,659; renewed Oct. 3, 1942.
Tile, Acoustic. Luse-Stevenson Co. 395,364; May 19.
Windows and screens, Storm. H. A. Kaufmann. 395,354; May 19.

CLASS 13

Molded rubber goods. General Tire & Rubber Company. 395,212; May 19; Serial No. 426,695; published Mar. 10, 1942.
Valves. Pittsburgh Reinforced Brazing & Machine Company. 159,477; renewed Sept. 19, 1942.

CLASS 16

Paint removers and varnish removers. Chalmers Chemical Company. 159,630; renewed Sept. 12, 1942.

CLASS 17

Cigars, cigarettes, and cheroots. M & N Cigar Manufacturers, Inc. 395,286; May 19; Serial Nos. 449,185–6; published Mar. 10, 1942.

CLASS 19

Bicycles. Colson Corporation. 395,249; May 19; Serial No. 447,096; published Mar. 10, 1942.
Trucks, Industrial power. Towmotor Co. 395,255; May 19; Serial No. 448,270; published Mar. 10, 1942.

CLASS 21

Apparatus consisting of a plurality of electric lamps. C. M. Hall Lamp Company. 395,340–1; May 19.
Apparatus for functioning to record and reproduce sound electrically. Acoustic Consultants, Inc. 395,219; May 19; Serial No. 438,062; published Mar. 10, 1942.
Battery separators. Western Coopernge Company. 395,259; May 19; Serial No. 448,350; published Mar. 10, 1942.
Electric crane. Milwaukee Electric Crane & Mfg. Co. 156,710; renewed July 11, 1942.
Electric hand drills. Knapp-Monarch Company. 395,237; May 19; Serial No. 443,332; published Mar. 10, 1942.
Electrical sound recording machines and parts thereof. Dictaphone Corporation. 395,290; May 19; Serial No. 449,546; published Mar. 10, 1942.
Signalling devices. Gemloid Corporation. 395,219; May 19; Serial No. 439,018; published Mar. 10, 1942.

CLASS 22

Card game. Parker Brothers. 157,557; renewed Aug. 8, 1942.
Fins for attachment to the feet for use as aids in swimming. O. P. Churchill. 395,345; May 19.
Toys, Stuffed. J. Swedlin, Inc. 395,322; May 19; Serial No. 450,433; published Mar. 10, 1942.

CLASS 23

Augers, drills, chisels, etc. Forest City Bit & Tool Co. 156,673; renewed July 11, 1942.
Filters and parts therefor, Oil. Bolser Corporation. 394,344; May 19.

CLASS 26

Ophthalmic mountings. Uhlemann Optical Co. 395,339; May 19.
Weights shaped to form optical lenses, Glass paper. Buffalo Optical Company. 159,294; renewed Sept. 26, 1942.

CLASS 29

Brooms, clothes brushes, and hair brushes, Whisk. Chase Brass & Copper Co. Incorporated. 395,235; May 19; Serial No. 443,113; published Feb. 24, 1942.
Mops. Massasoit Manufacturing Company. 157147; renewed July 25, 1942.

CLASS 32

Chests, tables, beds, chairs, etc. Historical James River Plantations Co. 395,232; May 19; Serial No. 441,435; published Mar. 10, 1942.
Consoles. Cavalier Corporation. 394,348; May 19.
Furniture. Day Department Stores Company. 395,311; May 19; Serial No. 450,017; published Mar. 10, 1942.
Furniture slip covers. Comfy Manufacturing Company. 395,239; May 19; Serial No. 444,633; published Mar. 10, 1942.

CLASS 33

Glass, Laminated safety. Libbey-Owens-Ford Glass Company. 395,305; May 19; Serial No. 449,942; published Mar. 10, 1942.

CLASS 34

Air conditioning ducts. B. & J. Jacobs Company. 395,227; May 19; Serial No. 439,869; published Mar. 10, 1942.
Ovens and burners, the burners comprising essentially a gas burner of metal, etc. elements, Gas fired. Cleveland Co-Operative Stove Company. 395,243; May 19; Serial No. 445,802; published Mar. 10, 1942.

CLASS 35

Rings, Jar. United States Rubber Company. 395,359; May 19.
Rubber and rubber containing pneumatic tires and tubes for vehicle wheels. Pharis Tire and Rubber Company. 395,361; May 19.

CLASS 36

Mouthpieces for musical instruments. Pan American Band Instrument and Case Company. 395,260; May 19; Serial No. 448,370; published Mar. 10, 1942.
Phonographs and phonograph-records. Emerson Phonograph Company, Inc. 155,412; renewed May 30, 1942.

CLASS 37

Paper, Gummed. Central Paper Company. 159,309; renewed Sept. 26, 1942.
Paper, tracing paper, etc., Drawing. Milton Bradley Company. 395,302; May 19; Serial No. 449,890; published Mar. 10, 1942.
Sheets to be used for making graphic charts, Ruled. Codex Book Co. 156,209; renewed June 20, 1942.
Stationery. New England Stationery Company. 156,371–2; renewed June 20, 1942.
Towels, Paper. West Disinfecting Company. 159,581; renewed Sept. 26, 1942.

CLASS 38

Books. McLoughlin Bros., Inc. 159,425; renewed Sept. 19, 1942.
Books, School. Steck Company. 395,368; May 19.
Books, Series of text. American Education Press, Inc. 395,271; May 19; Serial No. 448,843; published Mar. 10, 1942.
Bulletins. J. Taylor. 395,385; May 19.
Calendars. Shaw-Barton, Inc. 395,312–13; May 19; Serial Nos. 450,027–8; published Mar. 10, 1942.
Coupon book in booklet form, printed signs for windows, etc., Printed. Rand McNally & Company. 395,287; May 19; Serial No. 449,214; published Mar. 10, 1942.
Magazine devoted to the motion picture industry, Monthly. Triangle Publications, Inc. 395,277; May 19; Serial No. 448,990; published Mar. 10, 1942.
Newspaper column. Tribune Company. 395,288; May 19; Serial No. 449,362; published Mar. 3, 1942.
Newspaper column. New York Times Company. 395,355; May 19.
Periodical. Electrical Publications, Inc. 395,381; May 19.
Photographic prints of furniture. Eastern-Columbia, Inc. 395,268; May 19; Serial No. 448,757; published Mar. 3, 1942.
Publication. Fawcett Publications, Inc. 395,357–8; May 19.
Publication. G. M. Gardner. 395,347; May 19.
Publication. Lanteen Medical Laboratories, Inc. 395,375; May 19.
Publication, Bi-monthly. E. H. Rott. 395,244; May 19; Serial No. 446,827; published Mar. 3, 1942.
Publication of cartoons and editorial matter. Novelty Press Inc. 395,285; May 19; Serial No. 449,149; published Mar. 3, 1942.
Publication, Periodical. Street & Smith Publications, Inc. 395,272; May 19; Serial No. 448,926; published Mar. 10, 1942.
Publications. Goodyear Tire & Rubber Company. 395,263; May 19; Serial No. 448,557; published Mar. 3, 1942.
Scripts for radio broadcasts. C. M. Crowe. 395,238; May 19; Serial No. 443,598; published Mar. 10, 1942.
Section of a magazine. Look, Inc. 395,225; May 19; Serial No. 439,721; published Mar. 3, 1942.
Sections of periodical publications. United States News Publishing Corporation. 395,317; May 19; Serial No. 450,171; published Mar. 10, 1942.

CLASS 39

Aprons, dresses, petticoats, etc. A. D. Finkel. 158,664–5; renewed Sept. 12, 1942.
Blouses, sweaters, outer skirts, etc. Abraham & Straus, Inc. 395,373; May 19.
Boots and shoes. O'Donnell Shoe Company. 395,384; May 19.
Boots and shoes. Tri-Plex Shoe Company. 157,225; renewed July 25, 1942.
Clothing. Franklin Simon & Co. Inc. 159,103; renewed Sept. 19, 1942.
Coats, dresses, hats, etc. Scott-Burr Stores Corporation. 395,262; May 19; Serial No. 448,528; published Mar. 3, 1942.
Corsets, brassières, bandeaux, etc. American Lady Corset Co. 395,360; May 19.
Corsets, girdles, and brassières. Dominion Corset Company. 395,236; May 19; Serial No. 443,247; published Mar. 3, 1942.
Diapers, diaper outfits, and diaper pads, Babies'. Chicopee Sales Corporation. 395,254; May 19; Serial No. 448,184; published Mar. 3, 1942.
Dresses, suits, gowns, Infants'. Sears, Roebuck and Co. 395,265; May 19; Serial No. 448,660; published Mar. 3, 1942.
Girdles, panty girdles, corsets, etc. A. B. Hammett, Inc. 395,245; May 19; Serial No. 446,872; published Mar. 3, 1942.
Gloves and mittens, Fabric. Boss Manufacturing Company. 158,902–3; renewed Sept. 19, 1942.
Gloves, Fabric. Lewis & Locke, Inc. 395,229; May 19; Serial No. 440,865; published Aug. 19, 1941.
Hats, Ladies' and misses'. Marilyn Hat Co. Inc. 395,356; May 19.
Hats, suits, overcoats, and topcoats. D. Cohen & Son. 395,377; May 19.
Neckties. Artistic Neckwear Mfg. Co. 395,233; May 19; Serial No. 442,297; published Oct. 14, 1941.
Neckties. Cheney Brothers. 395,275; May 19; Serial No. 448,963; published Mar. 3, 1942.
Neckties. Cheney Brothers. 395,283; May 19; Serial No. 449,125; published Mar. 3, 1942.
Neckties. E. E. Shaffer. 395,234; May 19; Serial No. 442,604; published Sept. 30, 1941.
Neckties, cravats, and scarfs. Cheney Brothers. 395,256; May 19. Serial No. 448,280; published Mar. 3, 1942.
Shirts, shorts, underwear, etc. S. S. Kresge Company. 395,241 May 19; Serial No. 445,607; published Mar. 10, 1942.
Shirts, slacks, suits, etc., Outer. S. K. Everett. 395,240; May 19; Serial No. 444,638; published Mar. 3, 1942.

Shoes. Cannon Shoe Company. 395,307; May 19; Serial No. 449,987; published Mar. 10, 1942.
Shoes and slippers. Cobblers, Inc. 395,300; May 19; Serial No. 449,829; published Mar. 3, 1942.
Shoes and slippers. La Marquise Slipper Co. 395,222; May 19; Serial No. 439,350; published Mar. 3, 1942.
Shoes, Children's. J. Deutsch. 395,372; May 19.
Soles for shoes, Inner. International Shoe Company. 395,216; May 19; Serial No. 437,683; published Mar. 3, 1942.

CLASS 40

Hooks and eyes, hook and eye tape, and safety pins. De Long Hook and Eye Company. 158,932; renewed Sept. 19, 1942.

CLASS 42

Chambray and cheviots in the piece. Riverside & Dan River Cotton Mills, Inc. 157,572; renewed Aug. 8, 1942.
Cotton piece goods. Eugene Ellis Co. Inc. 159,691; renewed Oct. 3, 1942.
Cotton piece goods. Minot, Hooper & Company. 159,039; renewed Sept. 19, 1942.
Cotton piece goods. J. C. Penney Company. 395,351; May 19.
Cotton sheetings. Columbus Manufacturing Company. 159,683; renewed Oct. 3, 1942.
Covers, bath mats, and rugs, Toilet lid. M. Newman. 395,349; May 19.
Fabric piece goods. F. P. Maupai Dyeing Co. 395,362; May 19.
Lace curtains. Marshall Field & Company. 395,374; May 19.
Lace curtains. Marshall Field & Company. 395,378–9; May 19.
Piece goods. Calico Printers' Association, Limited. 395,380; May 19.
Rugs. Bernhard Ulmann Co. Inc. 395,367; May 19.
Silk piece goods and other fabrics. Higginbotham-Bailey-Logan Company. 395,370; May 19.
Textile fabrics in the piece. David Crystal, Inc. 395,346; May 19.
Window-shade cloth in the piece. Columbia Mills, Inc. 159,682; renewed Oct. 3, 1942.
Woolen piece goods. Atlantic Mills. 155,199; renewed May 23, 1942.

CLASS 43

Threads, Sewing. Max Pollack & Co. 159,739; renewed Oct. 3, 1942.

CLASS 44

Dental, medical, and surgical appliances, etc. Clay-Adams Co., Inc. 395,221; May 19; Serial No. 439,330; published Mar. 10, 1942.
Dental tools. United States Dental Manufacturing Company. 158,556–7; renewed Sept. 5, 1942.
Instruments and appliances used and prescribed by dentists and surgeons. Haddelds Limited. 159,704; renewed Oct. 3, 1942.

CLASS 45

Beverages and concentrates, Maltless bottled. Judge & Dolph, Ltd. 395,289; May 19; Serial No. 449,531; published Mar. 10, 1942.
Beverages, sirups, and concentrates. Citrus Products Company. 158,917; renewed Sept. 19, 1942.
Ginger ale. J. Z. Schonhoff. 158,083; renewed Aug. 22, 1942.
Ginger beer. Cock N' Bull Products. 395,298; May 19; Serial No. 449,763; published Mar. 10, 1942.
Maltless, nonalcoholic beverages sold as soft drinks. Tourlaine Food Products, Inc. 395,214; May 19; Serial No. 435,595; published Apr. 8, 1941.

CLASS 46

Candy. E. J. Brach & Sons. 395,274; May 19; Serial No. 448,959; published Mar. 10, 1942.
Candy. R. H. McElroy, Jr. 395,211; May 19; Serial No. 422,560; published Mar. 10, 1942.
Candy bars. Candymasters Incorporated. 395,303; May 19; Serial No. 449,892; published Mar. 10, 1942.
Canned dog and cat food. Independent Importing Co. 395,343; May 19.
Canned fish. Westgate Sea Products Co. 395,215; May 19; Serial No. 437,588; published June 10, 1941.
Canned olives. Lindsay Ripe Olive Company. 395,353; May 19.
Canned olives. Old Ranchers Company. 395,299; May 19; Serial No. 449,804; published Mar. 10, 1942.
Cereals and breads. C. W. Graves. 153,190; renewed Mar. 14, 1942.
Coffee, Java Coffee Company. 395,287; May 19.
Eggs, live and dressed poultry, turkeys, ducks, etc. Litchfield Produce Co. 395,231; May 19; Serial No. 441,210; published Mar. 10, 1942.
Extracts marshmallow dressing, fudges, etc., Flavoring. Horlne & Bowey Company. 154,577; renewed Apr. 18, 1942.
Feed, Poultry. R. T. Fox. 395,316; May 19; Serial No. 450,048; published Mar. 10, 1942.
Feeds, Hog. Wholesaler Warehouse. 395,286; May 19.
Flour, Wheat. Pillsbury Flour Mills Company. 395,294; May 19; Serial No. 449,698; published Mar. 10, 1942.
Foods for babies, Strained. Brownie Food Company. 395,213; May 19; Serial No. 427,790; published Mar. 10, 1942.
Fruit juice cocktails. Howard Preserving Company. 395,293; May 19; Serial No. 449,657; published Mar. 10, 1942.
Fruits, Fresh citrus. Ivanhoe Mutual Orange Association. 395,296; May 19; Serial No. 449,724; published Mar. 10, 1942.
Gelatine desserts. C. M. Shapera. 395,250; May 19; Serial No. 447,642; published Mar. 10, 1942.
Honey and candy. W. Diehnelt. 395,284; May 19; Serial No. 449,131; published Mar. 10, 1942.
Lentils, dried pea beans, etc., Dried. Graham Co. Inc. 395,257; May 19; Serial No. 448,290; published Mar. 10, 1942.
Milk. W. L. Rohrer. 160,002; renewed Oct. 10, 1942.
Oranges. Covina Orange Growers Association. 156,221; renewed June 20, 1942.
Potatoes, Raw. Andrews & Knowles Produce Company. 395,242; May 19; Serial No. 445,788; published Mar. 10, 1942.
Sandwiches. K. E. Bemis. 395,251; May 19; Serial No. 447,930; published Mar. 10, 1942.
Sirup, Malt. Premier Malt Products Co. of Ohio, Inc. 159,481–3; renewed Sept. 26, 1942.
Syrup, Malt Consumers Products Co. 154,005; renewed Apr. 4, 1942.
Turkeys, Dressed. Floden Bros. 395,276; May 19; Serial No. 448,968; published Mar. 10, 1942.
Vegetables, Fresh. D'Arrigo Brothers Co. 395,252; May 19; Serial No. 447,936; published Mar. 10, 1942.
Wheat germ. Mother Hubbard Distributors Inc. 395,280; May 19; Serial No. 449,081; published Mar. 10, 1942.
Yeast, Dried. Vita-Yeast Company. 395,279; May 19; Serial No. 449,073; published Mar. 10, 1942.

CLASS 47

Champagne. Societe Anonyme De Magenta-Epernay. 395,342; May 19.
Vermouth Dry. C. Barnett. 395,363; May 19.
Wines. Acampo Winery and Distilleries, Incorporated. 395,246; May 19; Serial No. 446,983; published Mar. 10, 1942.
Wines. Atlas Distributing Corporation. 395,297; May 19; Serial No. 449,750; published Mar. 10, 1942.
Wines. Fruit Industries, Ltd. 395,253; May 19; Serial No. 448,133; published Mar. 3, 1942.
Wines. Hill Distributing Company. 395,230; May 19; Serial No. 440,935; published June 17, 1941.
Wines. Peoples Distributing Company. 395,266; May 19; Serial No. 448,681; published Mar. 10, 1942.
Wines. L. N. Renault & Sons, Inc. 395,366; May 19.

CLASS 49

Brandy. Henry Kelly Importing & Distributing Co. 395,264; May 19; Serial No. 448,615; published Mar. 3, 1942.
Liqueur. R. C. Williams & Company. 395,282; May 19; Serial No. 449,111; published Mar. 10, 1942.
Liqueur, Rock and rye. Black Prince Company. 395,382; May 19.
Rum. A. P. Julia. 395,273; May 19; Serial No. 448,944; published Mar. 10, 1942.
Rum. M. M. Pascual. 395,271; May 19.
Whiskey. J. A. Dougherty Sons, Incorporated, Distillers. 395,217; May 19; Serial No. 438,040; published Mar. 3, 1942.
Whiskey. Nicholas & Co., Incorporated Importers. 395,369; May 19.

CLASS 50

Bulletin boards, Cork. United Cork Companies. 160,033; renewed Oct. 10, 1942.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 19TH DAY OF MAY, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Duffy, John P., Uhrichsville, assignor to The Stillwater Clay Products Company, Cleveland, Ohio. Flanged wall coping. Re. 22,098; May 19.
Esch, Rudolf E. (See Harrington, F. T., and Esch.)
Harrington, Ferris T., Detroit, Mich., and R. E. Esch, Euclid Ohio, assignors to Vickers Incorporated, Detroit, Mich. Power transmission. Re. 22,099; May 19.
Stillwater Clay Products Company, The. (See Duffy, John P., assignor.)
Vickers Incorporated. (See Harrington, F. T., and Esch, assignors.)

LIST OF PLANT PATENTEES

Byrum, Roy L., assignor to J. H. Hill, Richmond, Ind. Rose plant. 517; May 19.
Hill, Joseph H. (See Byrum, Roy L., assignor.)
Howard, Frederick H., Montebello, Calif., assignor to L. C. Lovett, Red Bank, N. J. Rose. 516; May 19.
Lovett, Lester C. (See Howard, Frederick Huber, assignor.)

LIST OF DESIGN PATENTEES

Adler, Louis, New York, N. Y. Dress. 132,483; May 19.
American Type Founders, Incorporated. (See Smith, Robert E., assignor.)
Anderson, Frederick L., and J. M. Baeza, San Francisco, Calif. Heat exchange unit. 132,423; May 19.
Anderson, Frederick L., and J. M. Baeza, San Francisco, Calif. Heat exchange unit. 132,424; May 19.
Baeza, John M. (See Anderson, F. L., and Baeza.)
Bausch & Lomb Optical Company. (See Bausch, W., and Vevirit, assignors.)
Bausch, William, Rochester, and J. V. Vevirit, Lewiston, assignors to Bausch & Lomb Optical Company, Rochester, N. Y. Binocular or the like. 132,474; May 19.
Brauné, Lydia, Glen Head, N. Y. Textile fabric or similar article. 132,484; May 19.
Brown, Richard D., Olean, N. Y. Brush knife. 132,419; May 19.
Bullen, George T. (See Damrell, Capelle H., assignor.)
Cashin, Bonnie, New York, N. Y. Dress ensemble. 132,485; May 19.
Cashin, Bonnie, New York, N. Y. Dress. 132,486; May 19.
Chaplin, Charles J., assignor to Chaplin Corporation, South Portland, Maine. Molded fiber combination plate. 132,431; May 19.
Chaplin Corporation. (See Chaplin, Charles J., assignor.)
Damoff, Steven, Hammond, Ind. Compound tool. 132,463; May 19.
Damrell, Capelle H., assignor of one-half to G. T. Buller, Chicago, Ill. Rosary decade ring. 132,460; May 19.
Eagle Pencil Company. (See Hanle, Benjamin W., assignor.)
Edelman, Louis, East Cleveland, Ohio. Portable structure. 132,464; May 19.
Eisenberg Jewelry, Inc. (See Nathan, Florence, assignor.)
Erickson, Don H., Dubois, Pa. Food tray or similar article. 132,425; May 19.
Friedman, Desider, New York, N. Y. Scarf or analogous article. 132,487; May 19.
Friedman, Leonard I., New York, N. Y. Leather or similar article. 132,478; May 19.
George, Edwin M., Republic, Wash. Dust pan. 132,426; May 19.
Golden, Claire S., Hempstead, N. Y. Skirt and jacket ensemble. 132,488; May 19.
Graves, Marion E., Long Beach, Calif. Spoon or similar article. 132,441; May 19.
Green, Beatrice, New York, N. Y. Dress. 132,489; May 19.
Green, Beatrice, New York, N. Y. Dress. 132,490; May 19.
Hanle, Benjamin W., Elizabeth, N. J., assignor to Eagle Pencil Company, New York, N. Y. Draftsmen's eraser. 132,420; May 19.
Harvey, Herbert, assignor to C. G. Hellyer, Pekin, Ill. Grip for hammer handles and like articles. 132,465; May 19.
Hat Corporation of America. (See Maxwell, P. M., and Russy, assignors.)
Hellyer, Chester G. (See Harvey, Herbert, assignor.)
Hill, C. V., & Company. (See Hill, Joseph S., assignor.)
Hill, Joseph S., Hillwood Lakes, N. J., assignor to C. V. Hill & Company, Incorporated, Trenton, N. J. Self-service display case. 132,475; May 19.
Hill Rom Company. (See Hillenbrand, William A., assignor.)
Hillenbrand, William A., assignor to Hill Rom Company, Inc., Batesville, Ind. Over-bed table. 132,427; May 19.
Hooven, H., Edison, assignor to Quaker Lace Company Incorporated, Philadelphia, Pa. Lace tablecloth. 132,491; May 19.
Ideal Novelty & Toy Co. (See Szrajer, Mieczyslaw, assignor.)
Karstadt, Clarence, Glen Ellyn, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill. Device for brewing beverages. 132,428; May 19.
Klose, Alfred J., Inglewood, Calif., assignor to Vultee Aircraft, Inc. Airplane. 132,461; May 19.
Krapp, William L., assignor to The National Ideal Company, Toledo, Ohio. Combination support and standard for chick fount base and receptacle. 132,421; May 19.
Krenzer, Valentine W. (See Stoddard, Meryl L., assignor.)
Leavy, William, Jr., New York, N. Y. Textile fabric. 132,492; May 19.
Leuer, Martin J., San Francisco, Calif. Bomb shield. 132,468; May 19.
Maidman, William, New York, N. Y. Dress ensemble. 132,493; May 19.
Martin, Hoyt A., East Pasadena, Calif. Combination kitchen and bathroom utility unit. 132,476; May 19.
Maxwell, Paul M., Manhasset, N. Y., and W. J. Russy, Jersey City, N. J., assignors to Hat Corporation of America, Norwalk, Conn. Cap. 132,494; May 19.
McElfresh, Albert J., Anderson, Ind. Necktie. 132,429; May 19.
Miller, Walter C., Abington, assignor to Quaker Lace Company Incorporated, Philadelphia, Pa. Lace tablecloth. 132,495; May 19.
Miller, Walter C., Abington, assignor to Quaker Lace Company Incorporated, Philadelphia, Pa. Lace tablecloth. 132,496; May 19.
Millholland, William K., Indianapolis, Ind. Combined lathe and stock support. 132,432; May 19.
Montgomery, Hazael E., Springfield, Ill. Eye shield. 132,442; May 19.
Moskowitz, Jacob, New York, N. Y. Dress ensemble. 132,497; May 19.
Murphy, Madeleine L., Bronxville, N. Y. Knapsack bunting. 132,469; May 19.
Nathan, Florence, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill. Pin or similar article. 132,434; May 19.
Nathan, Florence, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill. Pin or similar article. 132,435; May 19.
Nathan, Florence, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill. Pin or similar article. 132,436; May 19.
Nathan, Florence, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill. Pin or similar article. 132,437; May 19.

Nathan, Florence, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill. Pin or similar article. 132,438; May 19.
Nathan, Florence, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill. Pin or similar article. 132,439; May 19.
Nathan, Florence, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill. Pin or similar article. 132,440; May 19.
Nathan, Florence, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill. Pin or similar article. 132,443; May 19.
Nathan, Florence, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill. Pin or similar article. 132,444; May 19.
Nathan, Florence, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill. Pin or similar article. 132,445; May 19.
Nathan, Florence, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill. Pin or similar article. 132,446; May 19.
Nathan, Florence, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill. Pin or similar article. 132,447; May 19.
Nathan, Florence, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill. Pin or similar article. 132,448; May 19.
Nathan, Florence, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill. Pin or similar article. 132,449; May 19.
Nathan, Florence, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill. Pin or similar article. 132,450; May 19.
Nathan, Florence, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill. Pin or similar article. 132,451; May 19.
Nathan, Florence, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill. Pin or similar article. 132,452; May 19.
Nathan, Florence, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill. Pin or similar article. 132,453; May 19.
Nathan, Florence, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill. Pin or similar article. 132,454; May 19.
Nathan, Florence, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill. Pin or similar article. 132,455; May 19.
Nathan, Florence, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill. Pin or similar article. 132,456; May 19.
Nathan, Florence, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill. Pin or similar article. 132,457; May 19.
National Ideal Company, The. (See Krapp, William L., assignor.)
Naylor, George W., Rutherford, N. J. Badge or the like. 132,470; May 19.
Pellegrin, Elmer D., Woodstock, Ill., assignor to Geo. D. Roper Corporation, Rockford, Ill. Knob for stoves or the like. 132,433; May 19.
Petera, Harry C., Shorewood, Wis. Truck type concrete mixer. 132,471; May 19.
Quaker Lace Company Incorporated. (See Hooven, Howard, assignor.)
Quaker Lace Company Incorporated. (See Miller, Walter C., assignor.)
Quaker Lace Company Incorporated. (See Wolf, William, assignor.)
Reinecke, Jean O., Oak Park, Ill., assignor to L. S. Reller, Chicago, Ill. Cosmetic case. 132,458; May 19.
Reller, Louis S. (See Reinecke, Jean O., assignor.)
Reynolds, Edwin, Vineland, N. J. Combined butter knife and butter pick or similar article. 132,462; May 19.
Robertson, John T., Millington, N. J. Badge. 132,466; May 19.
Roper, George D., Corporation. (See Pellegrin, Elmer D., assignor.)
Rosenberg, Solomon, Los Angeles, Calif. Spring clip. 132,430; May 19.
Ruchman, Albert, New York, N. Y. Dress. 132,479; May 19.
Russy, Wilhelmina J. (See Maxwell, P. M., and Russy.)
Sabatino, Nicholas S., Dayton, Ohio. Confection. 132,467; May 19.
Schrape, Ernest R., New York, N. Y. Glove. 132,472; May 19.
Sears, Roebuck and Co. (See Karstadt, Clarence, assignor.)
Smith, Robert E., New York, N. Y., assignor to American Type Founders, Incorporated, Elizabeth, N. J. Font of type. 132,422; May 19.
Stix, Frances T., New York, N. Y. Dress. 132,498; May 19.
Stoddard, Meryl L., Davison, assignor of one-half to V. W. Krenser, Ann Arbor, Mich. Finger ring. 132,477; May 19.
Szrajer, Mieczyslaw, Forest Hills, N. Y., assignor to Ideal Novelty & Toy Co., Long Island City, N. Y. Toy animal. 132,473; May 19.
Tetreault, Mary E., New York, N. Y. Dress. 132,499; May 19.
Vultee Aircraft, Inc. (See Klose, Alfred J.)
Walker, Joset, New York, N. Y. Dress. 132,500; May 19.
Walker, Joset, New York, N. Y. Dress. 132,501; May 19.
Walker, Joset, New York, N. Y. Dress. 132,502; May 19.
Wiener, Jack, New York, N. Y. Lace. 132,503; May 19.
Wolf, William, assignor to Quaker Lace Company Incorporated, Philadelphia, Pa. Lace tablecloth. 132,504; May 19.
Wottring Instrument Company, The. (See Wottring, Le Roy, assignor.)
Wottring, Le Roy, Altadena, Calif., assignor to The Wottring Instrument Company, Amherst, Ohio. Orthoptic instrument or article of similar nature. 132,459; May 19.
Zahn, Samuel, New York, N. Y. Dress. 132,480; May 19.
Zahn, Samuel, New York, N. Y. Dress. 132,481; May 19.
Zahn, Samuel, New York, N. Y. Dress. 132,482; May 19.
Zahn, Samuel, New York, N. Y. Dress. 132,505; May 19.
Zahn, Samuel, New York, N. Y. Dress. 132,506; May 19.
Zendman, Isaac, Jr., New York, N. Y. Lace. 132,507; May 19.
Zendman, Isaac, Jr., New York, N. Y. Lace. 132,508; May 19.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 19TH DAY OF MAY, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Achterman, Ernest, assignor to E. F. Achterman, Westfield, N. J. Rocket engine. 2,283,863; May 19.
Achterman, Ernest F. (See Achterman, Ernest, assignor.)
Adams, Harold E., South Norwalk, Conn., and W. A. Kates, Corning, N. Y.; said Adams assignor to Nash Engineering Company, South Norwalk, Conn.; and said Kates assignor to Corning Glass Works, Corning, N. Y. Pump. 2,283,348; May 19.
Aetna Rubber Company, The. (See Malek, Edward J., assignor.)
Ahern, Edward T., New Haven, Conn. Dispenser of solution and application thereof. 2,283,780; May 19.
Aiken, David, Winnsboro, assignor of one-third to J. W. Douglass, Jr., Greenville, S. C. Toothbrush assembly for liquid dentifrices. 2,283,781; May 19.
Akins, Clifford M., assignor to Marquette Manufacturing Co., Inc., Minneapolis, Minn. Hydraulic bumper jack. 2,283,593; May 19.
Aktiebolaget Gotaverken. (See Seldén, Folke H., assignor.)
Aktiebolaget Svenska Fläktfabriken. (See Lange, Bror G., assignor.)
Albin, Jeremiah W., Babylon, N. Y. Latching device. 2,283,526; May 19.
Alford, Andrew, assignor to International Telephone & Radio Manufacturing Corporation. High frequency energy distribution system. 2,283,620; May 19.
Allenghenv Ludlum Steel Corporation. (See Batcheller, Clements, assignor.)
Allied Chemical & Dye Corporation. (See Flett, Lawrence H., assignor.)
Allis-Chalmers Manufacturing Company. (See Norelius, Emil F., assignor.)
Allis-Chalmers Manufacturing Company. (See Nye, Henry V., assignor.)
Allis-Chalmers Manufacturing Company. (See Winograd, Harold, assignor.)
Altgelt, Herman E., South Bend, Ind., assignor to Oliver Farm Equipment Company. Plow construction. 2,283,482; May 19.
Aluminum Company of America. (See Kuerner, George W., assignor.)
American Can Company. (See Cabot, Walter K., assignor.)
American Can Company. (See Hunter, John, assignor.)
American Can Company. (See White, Richard J., assignor.)
American Laundry Machinery Company, The. (See Fischer, Charles A., assignor.)
American Laundry Machinery Company, The. (See Heidenfelder, Fred A., assignor.)
American Locomotive Company. (See Lewis, Frank M., assignor.)
American Machine & Foundry Company. (See Naftali, Rudolf V., and H., assignors.)
American Machine & Foundry Company. (See Smith Elberon D.)
American Machinery Corporation. (See Sias, Richard, assignor.)
American Steel and Wire Company of New Jersey, The. (See Brickman, Alan E., assignor.)
American Steel Foundries. (See Aurien, Ray G., assignor.)
American Steel Foundries. (See Light, David M., assignor.)
American Stove Company. (See Frick, William H., assignor.)
American Tubular Elevator Company. (See Schiller, Morgan B., assignor.)
Anderau, Walter. (See Straub, F., Pieth, Anderau, and Hanhart.)
Andrews, Irving B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Shoe-treating apparatus. 2,283,306; May 19.
Angier Edward H., Framingham, Mass., assignor to himself, as trustee. Stay tape. 2,283,349; May 19.
Apex Machinery Co. (See Apicella, Ralph, assignor.)
Apicella, Ralph, Jersey City, N. J., assignor to Apex Machinery Co., Newark, N. J. Laundry machine. 2,283,527; May 19.
Apjohn, Thomas L. (See Pratt, M. F., Apjohn and Happel.)
Arber, Herman, assignor to Essex Wire Corporation, Fort Wayne, Ind. Enamel applicator. 2,283,621; May 19.
Arneson, Edwin L., Morris, assignor to Morris Paper Mills, Chicago, Ill. Paper board folding machine and method. 2,283,159; May 19.
Arnold, Gerald D., Wauwatosa, Wis. Separator. 2,283,483; May 19.
Arrow-Hart & Hegeman Electric Company. (See Dahl, Magnus G., assignor.)
Ashley, Edward E., Noroton Heights, Conn., and A. E. Blumenthal, assignor of one-third to Kaufmann & Baer Company, doing business as Gimbel Bros., Pittsburg, Pa. Lighting fixture. 2,283,782; May 19.
Aspin, Frank Metcalf, Bury, England. Internal combustion engine. 2,283,594; May 19.
Atlantic Research Associates, Inc. (See Atwood, Francis C., assignor.)
Atterbury, Earl J., Chicago, Ill. Electric socket. 2,283,405; May 19.
Atwood, Francis C., Newton, assignor to Atlantic Research Associates, Inc., Newtonville, Mass. Spinning fibers. 2,283,169; May 19.
Audio Manufacturing Corp., The. (See Dech, Raymond S., assignor.)
Aurien, Ray G., assignor to American Steel Foundries, Chicago, Ill. Brake arrangement. 2,283,864; May 19.
Auto Electric Supply Co. (See Verney, Stanley S., assignor.)
Automotive Maintenance Machinery Co. (See Zimmerman, Herman W., assignor.)
B R E Manufacturing Co. (See Leslie, Howard C., assignor.)
Bacon, Charles J., Brooklyn, N. Y. Collapsible display receptacle. 2,283,406; May 19.
Baird, F. D. (See Lethlean, William F., assignor.)
Bak, Andrew, Chicago, Ill. Armor. 2,283,484; May 19.
Balle, Gerhard. (See Rosenbach, J., and Balle.)
Ballou, B. A., & Co. (See Goodwin, Charles A., assignor.)
Banister, James G., Chicago, Ill. Stilt. 2,283,595; May 19.
Bany, Herman, Lansdowne, Pa., assignor to General Electric Company. Excitation control system. 2,283,662; May 19.
Barbour, William M., Roanoke, Va. Door locking mechanism. 2,283,596; May 19.
Barlow, Benjamin W. (See Halford, F. B., and Barlow.)
Barr, Glen G., assignor to Backstay Welt Company, Union City, Ind. Automobile body trimming device. 2,283,783; May 19.
Barrett, Richard B. (See Parrott, Charles M., and Barrett.)
Barry, Richard J., New York, and C. Rasmussen, Flushing, N. Y., assignors to W. E. Irving, Glenbrook, Conn. Grating. 2,283,307; May 19.
Bartlett, Percy, Springfield, Pa., assignor to General Electric Company. Electric circuit breaker. 2,283,717; May 19.
Bassett, Bernard J., and O. E. Opichka, assignor to A. G. Malliem, Lena, Wis. Heater. 2,283,407; May 19.
Bassett, Robert S., Buffalo, N. Y. Bearing for water meters. 2,283,408; May 19.
Batcheller, Clements, Glens Falls, N. Y. Coloring etched stainless steel. 2,283,170; May 19.
Batcheller, Clements, Glens Falls, N. Y., assignor to Allegheny Ludlum Steel Corporation, Pittsburgh, Pa. Colorod steel. 2,283,171; May 19.
Bates, John R., Swarthmore, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Zeolites and their treatment. 2,283,172; May 19.
Bates, John R., Swarthmore, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Synthetic contact masses and their preparation. 2,283,173; May 19.
Bates, John R., Swarthmore, Pa., and G. R. Bond, Jr., Paulsboro, N. J., assignors to Houdry Process Corporation, Wilmington, Del. Preparing composite materials for contacting operations. 2,283,174; May 19.
Baum, Nathaniel, assignor to McLaughlin & Wallenstein, Chicago, Ill. Composition for bleaching hair. 2,283,350; May 19.
Bean, James, Alhambra, Calif. Shipping apparatus. 2,283,308; May 19.
Bean, James, Alhambra, and E. W. Narramore, Oakland, Calif. Cargo stowing apparatus. 2,283,309; May 19.
Beatty, William R., Hammond, Ind. Sheet and plate metal forming machine. 2,283,310; May 19.
Beck, Ernie J., assignor to S. Karpen & Bros., Chicago, Ill. Reclining seat mechanism. 2,283,485; May 19.
Bell Aircraft Corporation. (See Hineman, George L., assignor.)
Bell & Howell Company, The. (See Brueske, George A., assignor.)

Bell & Howell Company, The. (See McNabb, Louis A., assignor.)
Bell & Howell Company, The. (See Steckbart, Bruno, assignor.)
Bell, Stanley A. (See Hughes, H. R., Bell and Odekirk.)
Bell Telephone Laboratories, Incorporated. (See Bonerden, Allen R., assignor.)
Bell Telephone Laboratories, Incorporated. (See Hall, J. A., and Melhose, assignors.)
Bell Telephone Laboratories, Incorporated. (See Hickman, C. N., and Lakatos, assignors.)
Bell Telephone Laboratories, Incorporated. (See Lakatos, E., and Reeve, assignors.)
Bell Telephone Laboratories, Incorporated. (See Mohr, Milton E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Ohl, Russell S., assignor.)
Bell Telephone Laboratories, Incorporated. (See Pullis, George A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Slonczewski, T., and Stansel, assignors.)
Bell Telephone Laboratories, Incorporated. (See Strickler, Walter B., assignor.)
Bell Telephone Laboratories, Incorporated. (See Towne, Charles C., assignor.)
Belt Grip Co., The. (See Scalzitti, Sebastian R., assignor.)
Bendix Aviation Corporation. (See Bevins, James E., assignor.)
Bendix Aviation Corporation. (See Briechle, A., Hurley, and Merritt, assignors.)
Berger, Adolph L., Dayton, Ohio. Power regulator for supercharged engines. 2,283,175; May 19.
Bergmann, Felix. (See Bergmann, E., and Bergmann.)
Bergmann, Ernst, F. Bergmann and L. Haskelberg, Rehoboth, Palestine. Chemotherapeutical substances. 2,283,718; May 19.
Berkman, Boris, assignor to Milkweed Products Development Corporation, Chicago, Ill. Preparation of felt. 2,283,409; May 19.
Berry, Charles W., Dayton, Ohio. Hydro mechanical transmission drive. 2,283,486; May 19.
Betz, Frank J., and M. A. Betz, Gaza, Iowa. Pickup divider attachment for grain binders. 2,283,528; May 19.
Betz, Michael A. (See Betz, Frank J., and M. A.)
Bevins, James E., Wood-Ridge, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Compensating means for pressure responsive devices. 2,283,311; May 19.
Billings, Roy O., Milwaukee, Wis. Tag-line reel. 2,283,784; May 19.
Bingeeser, Carl, et al. (See Means, Eldon A.)
Birmann, Rudolph, Newton, Pa., assignor to Turbo Engineering Corporation, New York, N. Y. Elastic fluid mechanism. 2,283,176; May 19.
Bivens, Maurice E., Schenectady, N. Y., assignor to General Electric Company. Electric valve circuits. 2,283,719; May 19.
Black and Decker Manufacturing Company. (See Wilhide, Glenn C., assignor.)
Blackburn, George, and Sons Limited. (See Start, Harry W., and E., assignors.)
Blackhawk Mfg. Co. (See Mandl, Siegmund, assignor.)
Blackstay Welt Company. (See Barr, Glen G., assignor.)
Bland, James R. (See Tyler, J., Kells, Kern and Bland.)
Blumenthal, Alexander E. (See Ashley, E. E., and Blumenthal.)
Bobrick, Arthur L., San Marino, Calif. Dispenser for liquid soap and the like. 2,283,529; May 19.
Bocji Corporation. (See La Place, Desmond R., assignor.)
Bohachef, Michael F., Milwaukee, Wis. Garment hanger. 2,283,530; May 19.
Bohn Aluminum & Brass Corporation. (See McCullough, William E., assignor.)
Boice, Elvin G., assignor to Reed Roller Bit Company, Houston, Tex. Rock bit. 2,283,312; May 19.
Boileau, Arthur H., Cedar Rapids, Iowa, assignor to Cherry-Burrell Corporation, Wilmington, Del. Ice cream freezer. 2,283,487; May 19.
Boling, Marion L., Hollywood, Calif. Wiring system for motor vehicles. 2,283,785; May 19.
Bolton, John W., & Sons, Inc. (See Schueler, Fred, assignor.)
Bond, George R., Jr. (See Bates, J. R., and Bond, Jr.)
Bonorden, Allen R., Plainfield, N. J., assignor to Bell Telephone Laboratories Incorporated, New York, N. Y. Teletypewriter exchange system. 2,283,410; May 19.
Bonte, Frederick R., assignor to The Timken Roller Bearing Company, Canton, Ohio. Graphitic steel. 2,283,664; May 19.
Boosey, Edward W. N., Detroit, Mich. Roof drain. 2,283,160; May 19.
Booth, Earl C., assignor to Noblitt-Sparks Industries, Inc., Columbus, Ind. Metal table. 2,283,351; May 19.
Booton, Charles P., Anstey, assignor to J. P. Engineering Company Limited, Leicester, England. Lawn mower and the like. 2,283,161; May 19.
Bordon Mfg. Co. (See Bourque, Philip, assignor.)
Bourdin, Sylvain G. (See Meneaux, C., Bourdin and Chaussé.)
Bourque, Philip, assignor to Bordon Mfg. Co., Inc., Detroit, Mich. Electrode holder. 2,283,162; May 19.
Bowden, James J., Cleveland Heights, and J. S. Suda, Parma, Ohio. Manufacture of iron and steel by the open hearth process. 2,283,622; May 19.
Bowling Patents Management Corporation. (See Schmidt, Gottfried J., assignor.)
Bowser, S. F., & Company. (See Brubaker, W. S., and Saarinen, assignors.)
Brach, E. J., & Sons. (See Waddell, Dean T., assignor.)
Brady, Francis E., Jr., Muncie, Ind. Pump. 2,283,844; May 19.
Brainard, Kenneth A., Altadena, Calif. Electrical plug connection. 2,283,177; May 19.
Braker, William. (See Jones, W. S., and Braker.)
Brandt, Hermann, Berlin-Charlottenburg, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany. Gyroscope. 2,283,720; May 19.
Braselton, Chester H., New York, N. Y., assignor, by mesne assignments, to Sirian Wire and Contact Company, Newark, N. J. Lighting device. 2,283,352; May 19.
Brassert, H. A., & Company. (See Brassert, H. A., and Ives, assignors.)
Brassert, Herman A., and E. L. Ives, assignors to H. A. Brassert & Company, New York, N. Y. Shaft furnace and operating same. 2,283,163; May 19.
Brenner, Milton B., Chicago, Ill. Jacket crown. 2,283,788; May 19.
Bretschneider, Hermann, and László Fári, Budapest, assignors to Chinoin Gyogyszer és Vegyészeti Termékek Gyára R. T., Dr. Kereszty & Dr. Wolf, Ujpest, Hungary. Preparing of sterol degradation products. 2,283,411; May 19.
Brewster, Herbert M., Chicago, Ill. Spark plug. 2,283,164; May 19.
Brickman, Alan E., Monongahela, Pa., assignor to The American Steel and Wire Company of New Jersey. Pavement joint. 2,283,787; May 19.
Bridgeport Brass Company. (See Clark, Percy L., assignor.)
Briechle, Ambrosius, Brooklyn, R. T. Hurley, Dobbs Ferry, N. Y., and G. E. Merritt, Lusby, Md., assignors to Bendix Aviation Corporation, South Bend, Ind. Bombing camera. 2,283,788; May 19.
Brierly, Ralph C. (See Gillette, C. S., and Brierly.)
Bright, William H., Osone Park, N. Y. Golf bag support. 2,283,412; May 19.
Briod, André E., Belleville, N. J., and Bernard A. Dombrow, New York, N. Y., assignors to National Oil Products Company, Harrison, N. J. Vitamin food product and producing the same. 2,283,531; May 19.
Bristol Aeroplane Company Limited, The. (See Owner, Frank M., assignor.)
Bristow, James J. R. (See Skinner, Bronson C., and Bristow.)
British Oxygen Company Limited, The. (See Schuftan, Paul M., assignor.)
British Power Boat Company Limited, The. (See Johnson, Malcolm E., assignor.)
Brockhurst, James B., Red Bank, N. J. Self-sharpening safety razor. 2,283,721; May 19.
Brockson, James W., assignor of one-half to S. T. Green, Wilmington, Del. Hydraulic motor. 2,283,313; May 19.
Brouwer, George, Muskegon, Mich., assignor by mesne assignments to Ramsey Manufacturing Company. Device for milling oil slots in piston rings. 2,283,165; May 19.
Brown, Clarence W., Chicago, Ill. Making variegated balls. 2,283,845; May 19.
Brown Instrument Company, The. (See Williams, Calvin C., assignor.)
Brown, Susie, Chicago, Ill. Diaper construction. 2,283,178; May 19.
Brubaker, Walter S., Oakland, and A. J. Saarinen, San Francisco, Calif., assignors by mesne assignments to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind. Thermally adjustable meter. 2,283,532; May 19.
Brueske, George A., assignor to The Bell & Howell Company, Chicago, Ill. Light shutter. 2,283,533; May 19.
Bruner, Frank H. (See Goldsby, A. R., and Bruner.)
Buchanan, James A., United States Navy. Accelerometer. 2,283,180; May 19.
Buckeye Incubator Company, The. (See Gedge, Charles F., assignor.)
Buckingham, Adelbert P., Battle Creek, Mich. Soil pipe hub clamp. 2,283,179; May 19.
Bucknam, James H., Cranford, and L. W. Young, Scotch Plains, N. J., assignors to Oxweld Acetylene Company. Blowpipe machine. 2,283,346; May 19.
Buckwalter, John S., Lancaster, Pa. Distributor adjusting tool. 2,283,789; May 19.
Buell, Walter E., and L. A. Winter, Sioux City, Iowa. Treating sewage material. 2,283,166; May 19.
Bugg, Kenly C., Farmington, Mo. Connector. 2,283,663; May 19.
Bundy, William O., Jr., C. S. Lewis and I. Erlich, El Paso, Tex. Electrical switch. 2,283,534; May 19.
Burgess Cellulose Company. (See Schorger, A. W., and Ferguson, assignors.)
Burkey, Lawrence G., Cresson, assignor to S. Liebovits & Sons, Inc., Myerstown, Pa. Sewing machine. 2,283,535; May 19.

Burkhardt, Otto M., assignor to Thompson Products, Inc., Cleveland, Ohio. Mechanical clearance regulator. 2,283,536; May 19.
Burnham, Philip W., Summit, N. J., assignor of one-half to R. D. Ward, Wilmington, Del. Controlling device for fire doors. 2,283,537; May 19.
Burson, Harry H., assignor to N. C. Spong, Chicago, Ill. Clip assembly for wall structures. 2,283,167; May 19.
Busse, Edwin G., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake gear safety support. 2,283,846; May 19.
Busse, Edwin G., assignor to Chicago Railway Equipment Company, Chicago, Ill. Railway brake gear support. 2,283,847; May 19.
Butterbaugh, Darrel J. (See Spence, Le Roy U., and Butterbaugh.)
Byron Jackson Co. (See Farrell, A., Hollander and Hoover, assignors.)
Byron Jackson Co. (See Hollander, Aladar, assignor.)
Cabot, Walter K., Montclair, N. J., assignor to American Can Company, New York, N. Y. Can closing machine. 2,283,181; May 19.
Cadden, Charles C., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for installing rivets. 2,283,665; May 19.
Cage, Darcy L., Los Angeles, Calif. Fireplace construction. 2,283,790; May 19.
Calcott, William S., Woodstown, N. J., assignor to Kinetic Chemicals, Inc., Wilmington, Del. Warning agent. 2,283,666; May 19.
Campbell, Van E. (See McCreery, G. L., and Campbell.)
Carl Manufacturing Company. (See Carl, Walter G., assignor.)
Carl, Walter G., assignor to Carl Manufacturing Company, Incorporated, Mitchell, S. Dak. Electric cooker. 2,283,182; May 19.
Carnahan, Frank G., Akron, Ohio. Producing self-sealing tubes. 2,283,183; May 19.
Carpenter, William, et al. (See Means, Eldon A., assignor.)
Carroll, Charles F. (See Hartman, W., Greenwald, and Carroll.)
Casco Products Corporation. (See Cohen, Joseph H., assignor.)
Cash, A. W., Company. (See Temple, Paul C., assignor.)
Cashman, Robert J., Evanston, Ill. Phototube and manufacture. 2,283,413; May 19.
Castendyk, Fritz-Carl, Mattapan, Mass. Method and composition for degreasing skins. 2,283,421; May 19.
Celanese Corporation of America. (See Kimpton, William H., assignor.)
Celanese Corporation of America. (See Kinsella, Edward, assignor.)
Chamberlain, George H., Jr., San Jose, Calif. Tripod. 2,283,422; May 19.
Chamberlin Metal Weather Strip Company. (See Pillsbury, Howard G., assignor.)
Chandler, Homer P., assignor to The Ohio Brass Company, Mansfield, Ohio. Portable power drill. 2,283,722; May 19.
Chapin, Donald M., Artesia, N. Mex. Douche apparatus. 2,283,848; May 19.
Chausse, Louis. (See Meneux, C., Bourdin and Chaussé.)
Cherry-Burrell Corporation. (See Boileau, Arthur H., assignor.)
Chicago Railway Equipment Company. (See Busse, Edwin G., assignor.)
Chinoin Gyogyszer és Vegyészeti Termékek Gyára R. T. (See Bretschneider, H., and Fári, assignors.)
Chromogen, Incorporated. (See Goldfinger, Paul, assignor.)
Chromy, Ben J. (See Visitacion, Aniceto R., assignor.)
Ckola, John L., Chippewa Falls, Wis. Hydro dental brush. 2,283,314; May 19.
Clare, Irwin C., assignor to Hercules Powder Company, Wilmington, Del. Varnish composition. 2,283,353; May 19.
Clark, Edgar H., Forest Hills, N. Y. Translating and recording device. 2,283,538; May 19.
Clark, Percy L., Fairfield, assignor to Bridgeport Brass Company, Bridgeport, Conn. Extrusion machine cylinder or container. 2,283,791; May 19.
Clark, Richard U., assignor to The Magnavox Company, Incorporated, Fort Wayne, Ind. Porous electrode electrolytic condenser. 2,283,723; May 19.
Clarke, Harold E., West Somerville, Mass. Clutch control device. 2,283,423; May 19.
Clauberg, Herman P., Hasbrouck Heights, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y. Associating mechanism for printing machines. 2,283,597; May 19.
Claytor, Edward M., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Overdrive control system. 2,283,623; May 19.
Clemmons, Herbert D., assignor to Scovill Manufacturing Company, Sturgis, Mich. Spray nozzle. 2,283,315; May 19.
Cleveland Punch & Shear Works Company, The. (See Longfield, William F., assignor.)
Cliffe, Wilfrid H., Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Manufacture of new azo dyestuffs. 2,283,667; May 19.
Clingestein, Heinrich. (See Suckfüll, F., and Clingestein.)
Clopay Corporation. (See Johnson, Samuel J., assignor.)
Cluett, Peabody & Co. (See Redman, Frank R., assignor.)
Coffman, Roscoe A., Pittsburgh, Pa. Oscillatory starter and rotary breech mechanism therefor. 2,283,184; May 19.
Coffman, Roscoe A., Pittsburgh, Pa. Diesel engine starter. 2,283,185; May 19.
Coghill, Robert D., Peoria, Ill., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa. Triazane-3,5-dicarboxylic acid derivatives. 2,283,186; May 19.
Cohen, Joseph H., assignor to Casco Products Corporation, Bridgeport, Conn. Shaving machine. 2,283,865; May 19.
Colacuori, Salvatore. (See Lautzenhiser, F. B., and Colacuori.)
Cole, Raymond A., assignor to Norton Company, Worcester, Mass. Grinding and lapping machine. 2,283,792; May 19.
Coles, Henry L., University, Ala., assignor of nine-tenths to W. Sokolec, Chicago, Ill., and one-tenth to H. W. Dix, New York, N. Y. Producing alumina. 2,283,849; May 19.
Collings, William R., D. L. Gibb, and G. P. Schmelter, assignors to The Dow Chemical Company, Midland, Mich. Manufacture of solid polymers of vinyl aromatic compounds. 2,283,539; May 19.
Collins Radio Company. (See Van Cott, Charles C., assignor.)
Colorgraphic Process Corporation. (See Porth, Frank L., assignor.)
Columbia Dentoform Corp. (See Neustadt, David, assignor.)
Colwell, Archie T., and H. H. Engemann, assignors to Thompson Products Incorporated, Cleveland, Ohio. Cylinder liner sleeve. 2,283,424; May 19.
Comar Electric Co. (See Glennon, Edward J., assignor.)
Commonwealth Engineering Company, The. (See Waldie, William A., assignor.)
Conconi, Ernesto M., assignor to "Sacora" Soc. An. Commercio Olii Rappresentanze Autotrasporti, Milan, Italy. Preparing oligodynami filters. 2,283,883; May 19.
Conner, Steven L., United States Army, Watervliet, N. Y. Adapter for centrifugal casting molds. 2,283,187; May 19.
Conners, Carl L., assignor to W. F. Stimpson, Louisville, Ky. Weighing scale. 2,283,425; May 19.
Cool, John D. (See Grant, C., Cool, and Lang.)
Cooper, Claude, Watertown, and C. W. Sherman, Boston, Mass., said Sherman assignor to said Cooper. Liquid dispensing device. 2,283,414; May 19.
Cooper, Lester, Milford, Conn., and D. Roberts, assignors to Rubatex Products, Inc., New York, N. Y. One-stage process for the manufacture of rubber. 2,283,316; May 19.
Cooper, Victor J., Writtle, England, assignor to Radio Corporation of America. Keying circuit. 2,283,724; May 19.
Copell, Daniel K., New York, N. Y. Cover. 2,283,624; May 19.
Coplen, George H., Cripple Creek, Colo. Drill bit wrench. 2,283,625; May 19.
Cork, Edward C., Ealing, London, and J. L. Pawsey, Ickenham, assignors to Electric & Musical Industries Limited, Hayes, Middlesex, England. High frequency modulated radio signal transmitter. 2,283,793; May 19.
Cornelius, Anders E. A. S., Stockholm, Sweden, assignor to Hartford-Empire Company, Hartford, Conn. Electric furnace. 2,283,188; May 19.
Corning Glass Works. (See Adams, H. E., and Kates, assignor.)
Corning Glass Works. (See Kates, Willard A., assignor.)
Cox, James L., Danvers, assignor to Hygrade Sylvania Corporation, Salem, Oreg. Electric discharge lamp. 2,283,189; May 19.
Cox, John H., assignor to W. N. Meeks, Morales, Tex. Bean washer. 2,283,488; May 19.
Cox, John W., Berkeley, Calif., assignor to Radio Corporation of America. Signaling system. 2,283,415; May 19.
Crane, Carl J., Dayton, Ohio. Flight indicator. 2,283,190; May 19.
Crane Co. (See Stone, Carl R., assignor.)
Crapo, Frederick M. (See Fowle, F. F., and Crapo.)
Criley, William W., Cleveland, Ohio. Apparatus for forming metal articles. 2,283,416; May 19.
Croninger, Arthur G. (See Dickinson, F. G., and Croninger.)
Crotts, James K., Winston-Salem, N. C. Hair curler. 2,283,426; May 19.
Crousore, Ralph P., Indianapolis, Ind. Pin and cylinder lock. 2,283,489; May 19.
Crowley, John C., Cleveland Heights, assignor to The Dill Manufacturing Company, Cleveland, Ohio. Cap or closure member for valve stems. 2,283,490; May 19.
Crozier Manufacturing Co. (See Crozier, Michael A., assignor.)
Crozier, Michael A., New York, assignor to Crozier Manufacturing Co., Mount Vernon, N. Y. Bracket construction for plumbing fixtures. 2,283,794; May 19.
Cumiskey, William F., Painted Post, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Cylinder liner. 2,283,317; May 19.

Cuozzo, Michele, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Insole. 2,283,318; May 19.
Custer, Fred. (See Schmitt, J. B., and Custer.)
Cushman's Sons Inc. (See MacManus, John, assignor.)
Cutler, Philip, New York, N. Y. Sofa bed. 2,283,417; May 19.
Cyclite Company. (See James, Claud J., assignor.)
Dahl, Magnus G., West Hartford, assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn. Electric switch construction. 2,283,795; May 19.
Daimler-Benz Aktiengesellschaft. (See Nallinger, Fritz, assignor.)
Daine, Robert L., Greenwich, Conn., and H. F. May, Valley Stream, assignors to The Teleregister Corporation, New York, N. Y. Display device. 2,283,418; May 19.
Daley, Frank J., assignor to Hannifin Manufacturing Company, Chicago, Ill. Boring apparatus. 2,283,491; May 19.
Dalzell, Richard, assignor of one-half to A. O. Stixrud, Seattle, Wash. Safety alarm. 2,283,354; May 19.
Danforth, Louis D., Los Angeles, Calif. Tension lock nut. 2,283,850; May 19.
Darms, Lawrence J., Woodbury, N. J. Fire extinguisher. 2,283,796; May 19.
Davis & Company, Incorporated. (See Klemm, Hanns, assignor.)
Davis, Gifford D., South Orange, and R. E. Porter, East Orange, assignors to National Oil Products Company, Harrison, N. J. Compositions for treating leather and preparing the same. 2,283,540; May 19.
Davis, Lindsey, Smith & Shouts. (See Wilkerson, Clarence B., assignor.)
Day, Roland B., and E. R. Kanhofer, assignors to Universal Oil Products Company, Chicago, Ill. Hydrocarbon conversion process. 2,283,851; May 19.
Décallon, Maurice, Paris, assignor to Société pour la Fabrication des Projecteurs Electriques Marchal (Société Anonyme), Pantin, France. Illuminating apparatus. 2,283,598; May 19.
Dech, Raymond S., Stamford, assignor to The Audio Manufacturing Corp., Glenbrook, Conn. Phonograph disk. 2,283,797; May 19.
De Lange, Cornelis. (See Scherer, Odin L., assignor.)
Delano, James K., Poughkeepsie, N. Y., assignor to Delano Patents Company, Dover, Del. Apparatus for annealing wire. 2,283,798; May 19.
Delano Patents Company. (See Delano, James K., assignor.)
Delegard, Carl J., assignor to Paper Partitions, Inc., Chicago, Ill. Cell case machine. 2,283,492; May 19.
Delphos Bending Company, The. (See Peltier, Leslie, assignor.)
Demsey, Michael E., Cleveland, Ohio. Syringe appliance. 2,283,668; May 19.
Dersen, Heinrich, Krefeld, Germany. Thread guides for thread winding machines. 2,283,419; May 19.
Deutch, Samuel, New York, N. Y. Percentage calculator. 2,283,191; May 19.
De Vilbiss Company, The. (See Schmitt, J. B., and Custer, assignors.)
De Voge, John D. (See Miller, Frank A.)
Diamond Sanilift Company. (See Landis, Richard P., assignor.)
Dickerson, Walker T., Company, The. (See Gordon, William R., assignor.)
Dickey, Joseph B. (See McNally, J. G., and Dickey.)
Dickinson, Fairleigh S., Rutherford, N. J. Case for clinical thermometers. 2,283,599; May 19.
Dickinson, Frank G., Champaign, Ill., and A. G. Croninger, Miami, Okla. Line indicator. 2,283,493; May 19.
Dienst, Karl, Hildesheim, Germany. Vertical grain drier. 2,283,319; May 19.
Dill Manufacturing Company, The. (See Crowley, John C., assignor.)
Dinhofer, Julius, New York, N. Y. Diamond-holding tool. 2,283,320; May 19.
Dinnick, George M. (See Mouromtseff, I. E., and Dinnick.)
Disotell, William A., Spokane, Wash. Fireplace. 2,283,427; May 19.
Ditto, Marvin W., assignor to Emulsions Process Corporation, New York, N. Y. Utilizing emulsions. 2,283,192; May 19.
Dix, Howard W., et al. (See Coles, Henry L., assignor.)
Dixon, Paul H., Wenham, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Sole edge inking machine. 2,283,193; May 19.
Dodge, Adiel Y. (See Pollard, Willard L., assignor.)
Dodson, Ann C., Detroit, Mich. Footrest. 2,283,600; May 19.
Dodson, Edward, Putney Heath, London, England. Servo motor. 2,283,541; May 19.
Doe, Thomas B., New York, N. Y., and W. M. Gilman, Watertown, assignors to The Waterbury Tool Company, Waterbury, Conn. Power transmission. 2,283,321; May 19.
Dombrow, Bernard A. (See Briod, A. E., and Dombrow, assignors.)
Donaldson, Martha, et al. (See Manning, John R., assignor.)
Dorsey, Benjamin L., Los Angeles, Calif. Antiholdup cashier's cage. 2,283,542; May 19.
Douglass, J. W., Jr. (See Aiken, David, assignor.)
Dow Chemical Company, The. (See Collings, W. R., Gibb and Schmelter, assignors.)
Dow Chemical Company. (See Lyons, Orlin W., assignor.)
Dow Chemical Company, The. (See Nelson, Charles E., assignor.)
Draper, Grace, and V. Randle, Sonora, Tex. Hair dresser's pin support. 2,283,543; May 19.
Drummond, Folsom E., and W. A. Waldie, assignors to New Wrinkle, Inc., Dayton, Ohio. Finishing articles. 2,283,420; May 19.
Dryg, F. L. (See Shadrick, Richard H., assignor.)
Duke, James B. (See Tartaron, F. X., and Duke.)
Du Pont, E. I., de Nemours & Company. (See Izard, Emmette F., assignor.)
Du Pont, E. I., de Nemours & Company. (See Martin, Elmore L., assignor.)
Du Pont, E. I., de Nemours & Company. (See Middleton, E. B., and Jennings, assignors.)
Du Pont, E. I., de Nemours & Company. (See Neal, A. M., and Sturgis, assignors.)
Du Pont, E. I., de Nemours & Company. (See Regenbrecht, Albert, assignor.)
Du Pont, E. I., de Nemours & Company. (See Sturgis, Bernard M., assignor.)
Duriron Company, The. (See Jacobsen, Oystein, assignor.)
Dykstra, Harry, et al. (See Teitsma, William, assignor.)
Eastman Kodak Company. (See Hull, D. C., and Marshall, assignors.)
Eastman Kodak Company. (See McNally, J. G., and Dickey, assignors.)
Eaton, George, assignor to May C. Eaton, Cleveland, Ohio. Electric plug. 2,283,544; May 19.
Eaton, May E. (See Eaton, George, assignor.)
Eckert, John P., Jr., Philadelphia, Pa. Light modulating method and apparatus. 2,283,545; May 19.
Edell, William G., Upper Darby, Pa. Weed cutter. 2,283,322; May 19.
Edgren, Carl P., and J. E. Olson, St. Paul, Minn. Cleaning tool and dipper for oil burners. 2,283,669; May 19.
Edwards, Edward P., Larchmont, N. Y., assignor, by mesne assignments, to Oldetyme Distillers Corporation. Display device. 2,283,194; May 19.
Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Production of isoparaffins. 2,283,852; May 19.
Eichelberg, Gustav, Zurich, Switzerland. Fuel-injection nozzle valve. 2,283,725; May 19.
Electric & Musical Industries Limited. (See Cork, E. C., and Pawsey, assignors.)
Electricooker, Inc. (See Huck, Harry M., assignor.)
Ellis, Philip B., Ridley Park, Pa. Nozzle for vacuum cleaners. 2,283,428; May 19.
Emerson, David. (See Kopp, W. R., and Emerson.)
Emulsions Process Corporation (See Ditto, Marvin W., assignor.)
Engemann, Herbert H. (See Colwell, A. T., and Engemann.)
Ennis, George H., assignor of one-half to R. V. Funk, Long Beach, Calif. Method of and apparatus for determining the location of water strata in wells. 2,283,429; May 19.
Erdman, Harvey C., Shaker Heights, assignor to The National Screw & Manufacturng Company, Cleveland, Ohio. Making screw and washer assemblies. 2,283,494; May 19.
Erhardt, Joseph, Chicago, Ill. Apparatus for cutting valve seats. 2,283,323; May 19.
Erickson, Clarence N., Glendale, Calif. Reducing valve and flow regulator. 2,283,355; May 19.
Erickson, Elmer, Lake Orion, Mich. Indicator mechanism for tires. 2,283,601; May 19.
Erlich, Isidore. (See Bundy, W. O., Jr., Lewis and Erlich.)
Ernst, Walter, and P. J. Lindner, Mount Gilead, Ohio, assignors to The Hydraulic Development Corp., Inc., Wilmington, Del. High speed press control. 2,283,168; May 19.
Ernst, Walter, Mount Gilead, Ohio, assignor to The Hydraulic Development Corp., Inc., Wilmington, Del. Drawing. 2,283,356; May 19.
Essex Wire Corporation. (See Arber, Herman, assignor.)
Evans, Albert A. (See Simonsen, Harold C., assignor.)
Evans, Franklin J., Hazleton, Pa., assignor to Oliver United Filters Incorporated, Oakland, Calif. Continuous filter. 2,283,495; May 19.
Evans, Sidley O., Columbus, Ohio, assignor to General Electric Company. Transformer. 2,283,670; May 19.
Faber, Peter J., Chicago, Ill. Stand for microphones and the like. 2,283,324; May 19.
Factory Mutual Research Corporation. (See Thompson, Norman J., assignor.)
Failing, George E., Supply Company, The. (See Failing, George J. C., assignor.)
Failing, George J. C., assignor to The George E. Failing Supply Company, Enid, Okla. Drilling rig. 2,283,866; May 19.
Fairbanks, Morse & Co. (See Jacobus, Dale P., assignor.)
Farl, László. (See Bretschneider, H., and Farl.)
Farrel-Birmingham Company. (See Gasser, Emil R., assignor.)

Farrell, Asa, Oakland, A. Hollander, and V. A. Hoover, Los Angeles, assignors to Byron Jackson Co., Huntington Park, Calif. Adjustable motor pump. 2,283,195; May 19.
Favalora, Emile W., New York, N. Y. Handicapping device. 2,283,799; May 19.
Fawick General Company. (See Fawick, Thomas L., assignor.)
Fawick, Thomas L., assignor to The Fawick General Company, Inc., Akron, Ohio. Centrifugal clutch. 2,283,325; May 19.
Fehrenbach, Daniel W., assignor to Kansas City Journal-Post Company, Kansas City, Mo. Apparatus for controlling fuel supply to furnaces and the like. 2,283,496; May 19.
Felix, Friedrich, and W. Müller, assignor to the firm of Society of Chemical Industry in Basle, Basel, Switzerland. Yellow azo dyestuffs. 2,283,326; May 19.
Felix, Friedrich, Basel, and R. von Capeller, Riehen, assignors to the firm of Society of Chemical Industry in Basle, Basel, Switzerland. Azo dyestuffs. 2,283,327; May 19.
Fellows Gear Shaper Company, The. (See Williamson, James L., assignor.)
Ferguson, John, Cleveland, Ohio. Electrode arrangement for glass furnaces or the like. 2,283,800; May 19.
Ferguson, John H. (See Schorger, Arlie W., and Ferguson, assignors.)
Ferngren, Enoch T., Little Neck, Long Island, N. Y., assignor to Plax Corporation, Hartford, Conn. Method and apparatus for forming hollow articles from organic plastic material. 2,283,751; May 19.
Ferrisa Pharmacal Company. (See Krelling, August H., assignor.)
Fields, Theodore W., Los Angeles, and H. N. Oliver, South Gate, Calif. Boring bar. 2,283,497; May 19.
Fiero, George W., Buffalo, N. Y. Grease and lubricant. 2,283,602; May 19.
Finck, Joseph L., Brooklyn, N. Y. Heat insulating structure. 2,283,726; May 19.
Fink, Colin G., and G. L. Putnam, New York, N. Y. Recovery of gold from telluride ores. 2,283,196; May 19.
Fink, Colin G., and G. L. Putnam, New York, N. Y. Bromine process for gold ores. 2,283,198; May 19.
Finlay, Albert D., and R. S. Finlay, Melbourne, Victoria, Australia. Spring suspension device for cycles and motor cycles. 2,283,671; May 19.
Finlay, Robert S. (See Finlay, A. D., and R. S.)
Finley, Karl L., assignor to The F. E. Myers & Bro. Company, Ashland, Ohio. Self-oiling pump jack. 2,283,197; May 19.
Finley, Karl L., assignor to The F. E. Myers & Bro. Company, Ashland, Ohio. Self-oiling pump jack. 2,283,357; May 19.
Fischer, Charles A., assignor to The American Laundry Machinery Company, Norwood, Ohio. Foot operated press. 2,283,548; May 19.
Fischer, Rens W., assignor of fifty percent to M. Schreiber, San Diego, Calif. Card holder. 2,283,546; May 19.
Fitz Gerald, Arthur G., Newton, Mass. Self-sealing pneumatic inner tube. 2,283,801; May 19.
Flett, Lawrence H., Hamburg, N. Y., assignor to Allied Chemical & Dye Corporation. Detergent. 2,283,199; May 19.
Flosdorf, Earl W., Upper Darby, and F. J. Stokes, Jr., Chestnut Hill, Pa., assignors to F. J. Stokes Machine Company. Packaging and preserving dried biologicals, pharmaceuticals and the like. 2,283,867; May 19.
Flowers, Paul E., Mount Gilead, Ohio, assignor to The Hydraulic Development Corp., Inc., Wilmington, Del. Electrically controlled hydraulic press. 2,283,358; May 19.
Flude, John W., New Orleans, La. Method and apparatus for subsurface mining. 2,283,200; May 19.
Food Machinery Corporation. (See Kalmar, Arthur F., assignor.)
Ford, David O., Petersburg, Va. Salt dispenser. 2,283,547; May 19.
Forman Brothers, Inc. (See Hoffeld, M., Forman, and Warner, assignors.)
Forman, Sol. (See Hoffeld, M., Forman, and Warner.)
Fosterman, Alvin A., Utica, S. Dak., and L. O. Marshall, Verdigree, Nebr. Hog restraining device. 2,283,247; May 19.
Four Wheel Drive Auto Company. (See Sanborn, Charles M., assignor.)
Fowle, Frank F., Winnetka, Ill., and F. M. Crapo, assignors to Indiana Steel & Wire Company, Muncie, Ind. Hot-galvanized carbon-steel alternating-current conductor. 2,283,868; May 19.
Frances, Joseph E., Oakland, Calif. Pipe connection for plugs and the like. 2,283,672; May 19.
Franciare Company. (See Miller, Frank W., assignor.)
Freer, Phelps M., Detroit, Mich. Friction coupling. 2,283,673; May 19.
Frese, Adolph, Corporation. (See Frese, Arthur, assignor.)
Frese, Arthur, Santa Monica, assignor to Adolph Frese Corporation, Los Angeles, Calif. Thermometer holder. 2,283,248; May 19.
Frettem, Palmer E., Estherville, Iowa. Flashlight. 2,283,430; May 19.
Freydberg, Aaron, Mount Vernon, assignor to Freydberg Bros.-Strauss, Inc., New York, N. Y. Holder for tape sections. 2,283,626; May 19.
Freydberg Bros.-Strauss, Inc. (See Freydberg, Aaron, assignor.)
Freyn Engineering Company. (See Westcott, E., and Hayes, Jr., assignors.)
Frick, William H., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Broiler. 2,283,853; May 19.
Friedman, Bernard S., and W. L. Benedict, assignors to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbon oils. 2,283,854; May 19.
Fuel Refining Corporation. (See Otto, Carl, assignor.)
Funk, Robert V. (See Ennis, George H., assignor.)
Gaboury, Lucian, assignor to J. B. Webb Company, Detroit, Mich. Overhead conveyor trolley. 2,283,359; May 19.
Gade, Anna T., et al. (See Nicholas, Harold I., assignor.)
Gage, Edward G., Brooklyn, assignor of two-thirds to L. Ottinger, New York, N. Y. Safely servicing thermionic apparatus. 2,283,727; May 19.
Gage, Edward G., Brooklyn, assignor of two-thirds to L. Ottinger, New York, N. Y. Transformer means permitting safe handling of dangerous circuits. 2,283,728; May 19.
Gage, Edward G., Brooklyn, assignor of two-thirds to L. Ottinger, New York, N. Y. Safely servicing thermionic apparatus. 2,283,729; May 19.
Galbraith, Frank R., Atlanta, Ga. Cot. 2,283,549; May 19.
Gardner, Robert Irving, Bakersfield, assignor to Richfield Oil Corporation, Los Angeles, Calif. Testing pipes. 2,283,730; May 19.
Gasser, Emil R., Buffalo, N. Y., assignor to Farrel-Birmingham Company, Incorporated, Ansonia, Conn. Hydraulic clutch control system. 2,283,431; May 19.
Gaylord Bros., Inc. (See Grant, C., Cool and Lang, assignors.)
Gedge, Charles F., assignor to The Buckeye Incubator Company, Springfield, Ohio. Inclined thermometer. 2,283,360; May 19.
Gee, Norman E., Narberth, Pa. Car spring snubber. 2,283,855; May 19.
Geier, P. A., Company, The. (See Kaspar, Elmer J., assignor.)
General Aniline & Film Corporation. (See Rosenbach, J., and Balle, assignors.)
General Aniline & Film Corporation. (See Sieglitz, A., and Reuter, assignors.)
General Aniline & Film Corporation. (See Suckfüll, F., and Clingestein, assignors.)
General Chemical Company. (See Swaine, James W., assignor.)
General Electric Company. (See Bany, Herman, assignor.)
General Electric Company. (See Bartlett, Percy, assignor.)
General Electric Company. (See Bivens, Maurice E., assignor.)
General Electric Company. (See Evans, Sidley O., assignor.)
General Electric Company. (See Harrington, Richards H., assignor.)
General Electric Company. (See Jump, George H., assignor.)
General Electric Company. (See Kling, August J., assignor.)
General Electric Company. (See Lennox, Thomas C., assignor.)
General Electric Company. (See Leonard, Stephen C., assignor.)
General Electric Company. (See Mathieu, Joseph A., assignor.)
General Electric Company. (See Mikelson, Walter, assignor.)
General Electric Company. (See Palmer, Harry L., assignor.)
General Electric Company. (See Paul, William E., assignor.)
General Electric Company. (See Prince, David C., assignor.)
General Electric Company. (See Richardson, Ernest L., assignor.)
General Electric Company. (See Schaefer, Edward J., assignor.)
General Electric Company. (See Smith, Sidney R., Jr., assignor.)
General Electric Company. (See Stimson, Allen G., assignor.)
General Electric Company. (See Thumim, Carl, assignor.)
General Electric Company. (See Welch, Alanson U., Jr., assignor.)
General Machine Company, Inc. (See Kalmbach, Frederick, Jr., assignor.)
General Motors Corporation. (See Claytor, Edward M., assignor.)
General Motors Corporation. (See Geyer, Harvey D., assignor.)
General Motors Corporation. (See Hartzell, H. L., and Hittle, assignors.)
General Motors Corporation. (See Hill, Robert H., assignor.)

General Motors Corporation. (See Perrine, Lester E., assignor.)
General Motors Corporation. (See White, Joe, assignor.)
General Transformer Corporation. (See Wiggins, Edward J., assignor.)
Gerecke, Walter. (See Gerlach, M., and Gerecke.)
Gerlach, Manfred, Ak-En-on-the-Elbe, and W. Gerecke, assignors to Junkers Flugzeug-und-Motorenwerke A. G., Dessau, Germany. Piston and piston ring. 2,283,432; May 19.
Geyer, Harvey D., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Escutcheon for auto doors. 2,283,674; May 19.
Gibb, Donald L. (See Collings, W. R., Gibb, and Schmelter.)
Gibson, Alan, Mineola, N. Y. Molding and cutting device. 2,283,249; May 19.
Gilbert, Charles E., New York, N. Y. Electrical connector. 2,283,889; May 19.
Gillette, Claude S., Philadelphia, and R. C. Brierly, Narberth, Pa. Steam generator. 2,283,201; May 19.
Gillette Safety Razor Company. (See Hanley, John A., assignor.)
Gilman, Wilbert M. (See Doe, T. B., and Gilman.)
Gimbel Bros. (See Ashley, E. E., and Blumenthal, assignors.)
Gingher, Clair H., Greensboro, N. C. Fabric making machine. 2,283,802; May 19.
Girling, Albert H. G. (See Pratt, J. H., Manley, and Girling.)
Gittens, Sidney R., Philadelphia, Pa. Self-attaching patch for wire cloth or screens. 2,283,803; May 19.
Gleason, Anthony H., Westfield, N. J., assignor to Standard Oil Development Company. High molecular weight halogen- and sulphur-containing derivatives of hydrocarbon polymers. 2,283,627; May 19.
Glennon, Edward J., assignor to Comat Electric Co., Chicago, Ill. Multiple plug connector. 2,283,498; May 19.
Goldfinger, Paul, Brussels-Uccle, Belgium, assignor, by mesne assignments, to Chromogen, Incorporated. Color-photographic material. 2,283,361; May 19.
Goldsby, Arthur R., and F. H. Bruner, Beacon, assignors, by mesne assignments, to The Texas Company, New York, N. Y. Manufacture of motor fuel. 2,283,603; May 19.
Goldschmidt, Victor M., Holmenkollen, near Oslo, and K. J. Stenvik, Oslo, Norway. Manufacture of refractory materials. 2,283,250; May 19.
Golledge, Cuthbert J. (See Whitfield, F. G. S., and Golledge.)
Gonsett, Faust R., Los Angeles, Calif. Eye shield. 2,283,752; May 19.
Goodman Manufacturing Company. (See Lindgren, Frank A., assignor.)
Goodman Manufacturing Company. (See Pray, Thomas E., assignor.)
Goodman Manufacturing Company. (See Sloane, William W., assignor.)
Goodrich, B. F., Company, The. (See Cadden, Charles C., assignor.)
Goodrich, B. F., Company, The. (See Harrison, Marion M., assignor.)
Goodrich, B. F., Company, The. (See Lessig, Edward T., assignor.)
Goodrich, B. F., Company, The. (See Mathes, Roger A., assignor.)
Goodrich, B. F., Company, The. (See Trautmann, Herbert L., assignor.)
Goodwin, Charles A., East Providence, R. I., assignor to B. A. Ballou & Co., Inc. Clasp. 2,283,328; May 19.
Gordon, William R., assignor to The Walker T. Dickerson Company, Columbus, Ohio. Apparatus for beveling the heel portions of shoe insoles. 2,283,550; May 19.
Goss Printing Press Company, The. (See Taylor, Auburn, assignor.)
Goss, Richard C., Bridgeville, Pa., assignor to The Ohio Brass Company, Mansfield, Ohio. Coupler operating mechanism for dump cars. 2,283,731; May 19.
Graesser, David A., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Oil regulating means for sewing machines. 2,283,869; May 19.
Grant, Chester, Syracuse, J. D. Cool, Baldwinsville, and K. Lang, assignors to Gaylord Bros., Inc., Syracuse, N. Y. Card printing machine. 2,283,804; May 19.
Green, Samuel T. (See Brockson, James W., assignor.)
Greenwald, Milton W. (See Hartman, W., Greenwald, and Carroll.)
Greenwood, Benjamin K., Pueblo, Colo., assignor to B. F. Koperlik. Sleep inducer. 2,283,628; May 19.
Gross, Charles S., Long Beach, Calif. Rotary internal combustion engine. 2,283,433; May 19.
Gruen Watch Company, The. (See Katz, Benjamin S., assignor.)
Gunther, Leon F., Piqua, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Apparatus for use in the cutting of laminated safety glass. 2,283,251; May 19.
Gustafson, August W., Hutto, Tex. Dusting machine. 2,283,805 May 19.
Guyard, Léon J.-B., Paris, France, assignor to Owens-Corning Fiberglas Corporation. Reinforced motion picture film. 2,283,202; May 19.
H. L. F. Company. (See McBride, Samuel R., assignor.)
Haan, Henry, et al. (See Teitsma, William, assignor.)
Hachmuth, Karl H., Bartlesville, Okla., assignor to Phillips Petroleum Company. Catalytic process. 2,283,499; May 19.
Hakkl, Ismail, New York, N. Y. Centering tool. 2,283,806; May 19.
Halford, Frank B., Edgware, England, and B. W. Barlow, London, assignors to D. Napier & Son Limited, London, England. Variable ratio transmission mechanism. 2,283,434; May 19.
Halford, Frank B., Edgware, England, and B. W. Barlow, London, assignors to D. Napier & Son Limited, London, England. Variable ratio transmission mechanism. 2,283,435; May 19.
Hall, John A., Summit, and A. E. Melhose, Westfield, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Semiautomatic control system. 2,283,203; May 19.
Hamann, William, Irondequoit, N. Y., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Finishing machine. 2,283,204; May 19.
Hamilton, Madeleine C., New York, N. Y. Ski trousers. 2,283,362; May 19.
Hanhart, Walter. (See Straub, F., Pieth, Anderau, and Hanhart.)
Hanley, John A., Noroton, Conn., assignor to Gillette Safety Razor Company, Boston, Mass. Vibratory electric motor apparatus. 2,283,551; May 19.
Hanley, John A., Noroton, Conn., assignor to Gillette Safety Razor Company, Boston, Mass. Vibratory electric motor apparatus. 2,283,552; May 19.
Hannifin Manufacturing Company. (See Daley, Frank J., assignor.)
Hansen Mfg. Company. (See Hansen, W. L., and Hurst, assignors.)
Hansen, William L., and I. N. Hurst, assignors to Hansen Mfg. Company, Inc., Princeton, Ind. Slow speed self-starting synchronous motor. 2,283,363; May 19.
Hanson, Hilding, Charleston, W. Va., and R. W. Skoog, Borger, Tex., assignors to United Carbon Company, Inc., Charleston, W. Va. Agglomerating carbon black. 2,283,364; May 19.
Happel, John. (See Pratt, M. F., Apjohn and Happel.)
Harcum, William M., East Orange, N. J., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Anti-hunting automatic pilot. 2,283,753; May 19.
Harmon, Benjamin G. (See Schoengarth, Walter L., assignor.)
Harrington, Richards H., Schenectady, N. Y., assignor to General Electric Company. Preventing intergranular oxidation in ternary beryllium alloys. 2,283,675; May 19.
Harris, Walter K., Richmond, Va. Clothes drier. 2,283,205; May 19.
Harrison, Marion M., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Making sponge rubber. 2,283,604; May 19.
Hartford-Empire Company. (See Cornelius, Anders E. A. S., assignor.)
Hartford National Bank and Trust Company. (See van Dam, A., and Horowits, assignors.)
Hartman, William, M. W. Greenwald and C. F. Carroll, St. Louis, Mo.; said Carroll assignor to said Hartman and said Greenwald. Coin-operated vending machine and control mechanism therefor. 2,283,252; May 19.
Hartshorne, Edward. (See Mitchell, E. G., Schaper and Hartshorne.)
Hartzell, Herman L., and D. L. Hittle, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Lock switch coil. 2,283,732; May 19.
Hartzell, Herman L., and D. L. Hittle, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Ignition coil. 2,283,733; May 19.
Haskelberg, Leon. (See Bergmann, Ernst and Felix, and Haskelberg.)
Haslun, Joseph, Yonkers, N. Y. Display rack. 2,283,890; May 19.
Haven, Charles D., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Apparatus for producing multiply glass sheet glazing units. 2,283,253; May 19.
Hawkins, Henry E., Sr., Houston, Tex. Combined guard and towing device. 2,283,436; May 19.
Hayes, John C., Jr. (See Westcott, E., and Hayes.)
Hayward, John T., Tulsa, Okla. Controlling well fluids. 2,283,206; May 19.
Heenan & Froude Limited. (See Walker, George H., assignor.)
Heeter, C. M., Sons & Co. (See Heeter, Colonel C., assignor.)
Heeter, Colonel C., Butler, Pa., assignor to C. M. Heeter, Sons & Co., Inc. Well tool. 2,283,254; May 19.
Heftler, Paul, Chicago, Ill. Die set for making metal-edge filters. 2,283,629; May 19.
Heidenfelder, Fred A., Chicago, Ill., assignor to The American Laundry Machinery Company, Norwood, Ohio. Foot operated press. 2,283,553; May 19.
Heinkel, John, assignor to John C. Kupferle Foundry Company, St. Louis, Mo. Water level control roof drain. 2,283,365; May 19.
Heller, Richard D., Boise, Idaho. Screen. 2,283,877; May 19.

Heller, Richard D., Boise, Idaho. Making screen cloth. 2,283,878; May 19.
Heller, Richard D., Columbus, Ohio. Apparatus for making screen cloth. 2,283,879; May 19.
Heller, Richard D., Columbus, Ohio. Apparatus for making screen cloth. 2,283,880; May 19.
Heller, Richard D., Columbus, Ohio. Apparatus for making screen cloth. 2,283,881; May 19.
Heller, Richard D., Columbus, Ohio. Apparatus for making screen cloth. 2,283,882; May 19.
Hemphill Company. (See Smith, William L, Jr., assignor.)
Henkell, Victor M., Houston, assignor to W. H. H. Osterday, Harris County, Tex. Reciprocating electric motor. 2,283,886; May 19.
Hentrich, Winfrid, Duesseldorf-Reisholz, C. A. Lainau, Duesseldorf, and W. J. Kaiser, Duesseldorf-Benrath, Germany, assignors, by mesne assignments, to The Procter & Gamble Company, Cincinnati, Ohio. Sulphonated organic compounds as capillary-active media. 2,283,437; May 19.
Hentrich, Winfrid, Duesseldorf-Reisholz, C. A. Lainau, Duesseldorf, and W. J. Kaiser, Duesseldorf-Benrath, Germany, assignors, by mesne assignments, to The Procter & Gamble Company, Cincinnati, Ohio. Capillary active compounds and producing the same. 2,283,438; May 19.
Hercules Powder Company. (See Clare, Irwin C., assignor.)
Herman, Kenneth R., assignor to Vickers Incorporated, Detroit, Mich. Accumulator diaphragm. 2,283,439; May 19.
Herman, William P. Providence R. I. Electrical plug and contactor therefor. 2,283,807; May 19.
Hickman, Clarence N., Jackson Heights, and E. Lakatos, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Relay. 2,283,366; May 19.
Hill, Robert H., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Dimmer switch. 2,283,630; May 19.
Hintz, Peter M., Detroit, Mich. Table cloth stretcher. 2,283,367; May 19.
Hittle, Dalphin L. (See Hartzell, H. L., and Hittle.)
Hoe, R., & Co. (See Clauberg, Herman P., assignor.)
Hoe, R., & Co. (See Huck, William F., assignor.)
Hoenig, Henry M., Louisville, Ky. Cigarette package. 2,283,856; May 19.
Hoffeld, Murray, Brooklyn, S. Forman, New York, and M. L. Warner, assignors to Forman Brothers, Inc., Brooklyn, N. Y. Electrically heated receptacle. 2,283,734; May 19.
Hoffman, Fred D., Cleveland, assignor of one-half to J. T. Shipman, Twinsburg, Ohio. Apparatus for burning fuel. 2,283,631; May 19.
Holgerson, Robert I., Omaha, Nebr. Anchor davit. 2,283,500; May 19.
Holland-Letz, Ludwig, Crown Point, Ind. Automatic step motor switch locked heat regulator. 2,283,632; May 19.
Hollander, Aladar. (See Farrell, A., Hollander, and Hoover.)
Hollander, Aladar, Los Angeles, assignor to Byron Jackson Co., Huntington Park, Calif. Rotary well drilling system. 2,283,207; May 19.
Holland-Letz, Ludwig, Crown Point, Ind. Automatic nniform step temperature regulator. 2,283,633; May 19.
Holmes, Carl O. (See Samuelson, Erhardt G., assignor.)
Holmes, Gifford I., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Automatically reclosing circuit breaker. 2,283,368; May 19.
Holtz, Ray F., Mount Lebanon, assignor to The Lithograph Press Manufacturing Company, Pittsburgh, Pa. Device for cutting and stacking thin sheet material. 2,283,255; May 19.
Hoover Company, The. (See Humphrey, Warren A., assignor.)
Hoover Company, The. (See Roglin, Ernest C., assignor.)
Hoover Company, The. (See Taylor Charles H., assignor.)
Hoover Company, The. (See Troxler, Charles G., assignor.)
Hoover Company, The. (See Weaver, James W., assignor.)
Hoover Company, The. (See White, Harry B., assignor.)
Hoover, Vaino A. (See Farrell, A., Hollander and Hoover.)
Horowitz, Alexandre. (See van Dam, A., and Horowits.)
Houdaille-Hershey Corporation. (See Sandberg, Ray A., assignor.)
Houdry, Eugene J., Ardmore, and T. B. Prickett, Philadelphia, Pa., assignors to Houdry Process Corporation, Wilmington, Del. Catalytic converter. 2,283,208; May 19.
Houdry Process Corporation. (See Bates, John R., assignor.)
Houdry Process Corporation. (See Bates, J. R., and Bond, assignors.)
Houdry Process Corporation. (See Houdry, E. J., and Prickett, assignors.)
Houseman, Harold E., assignor to Scott and Williams, Incorporated, Laconia, N. H. Knitting method and machine. 2,283,554; May 19.
Howland, Louis H. (See Paul, P. T., and Howland.)
Huck, William F., Richmond Hills, assignor to R. Hoe & Co., Inc., New York, N. Y. Printing machine. 2,283,501; May 19.
Hufferd, George H., Detroit, Mich., assignor to Thompson Products Incorporated, Cleveland, Ohio. Resilient joint construction. 2,283,440; May 19.
Hughes, Howard R., Houston, Tex., S. A. Bell, Glendale, and G. E. Odekirk, Los Angeles, Calif., assignors to Hughes Tool Company, Houston, Tex. Dumping fuel from aircraft. 2,283,502; May 19.
Hughes Tool Company. (See Hughes, H. R., Bell and Odekirk, assignors.)
Hull, David C., and C. A. Marshall, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Apparatus for the manufacture of organic acid anhydrides. 2,283,209; May 19.
Hume Pipe Company (Australia) Limited. (See Hume, Walter R., assignor.)
Hume, Walter R., assignor to Hume Pipe Company (Australia) Limited, Melbourne, Victoria, Australia. Centrifugal concrete pipe molding machine. 2,283,735; May 19.
Humphrey, Warren A., Homeworth, assignor to The Hoover Company, North Canton, Ohio. Commutator. 2,283,808; May 19.
Hunter, Garniss W., Columbus, Ohio. Telephone stand. 2,283,441; May 19.
Hunter, John, Oak Park, Ill., assignor to American Can Company, New York, N. Y. Container key. 2,283,210; May 19.
Hurley, Roy T. (See Briechle, A., Hurley and Merritt.)
Hurst, Ira N. (See Hansen, W. L., and Hurst.)
Husk, Harry M., assignor to Electricooker, Inc., Newburyport, Mass. Cooking machine. 2,283,256; May 19.
Hutaff, George H., Jr., Wilmington, N. C. Bootle holder and carrier. 2,283,555; May 19.
Hydraulic Development Corp., The. (See Ernst, W., and Lindner, assignors.)
Hydraulic Development Corp. (See Ernst, Walter, assignor.)
Hydraulic Development Corporation, The. (See MacMillin, H. F., and Pocock, assignors.)
Hydraulic Development Corp., The. (See Flowers, Paul E., assignor.)
Hydraulic Development Corp. Inc., The. (See Tucker, Warren R., assignor.)
Hydrawmatic Machine Corporation. (See Simons, Abraham, assignor.)
Hygrade Sylvania Corporation. (See Cox, James L., assignor.)
Hygrade Sylvania Corporation. (See Lowry, Erwin F., assignor.)
Illinois Railway Equipment Company. (See Johnson, Malcolm S., assignor.)
Imperial Chemical Industries Limited. (See Cliffe, Wilfrid H., assignor.)
Indiana Steel & Wire Company. (See Fowle, Frank F., and Crapo, assignors.)
Ingersoll-Rand Company. (See Cumiskey, William F., assignor.)
Ingersoll-Rand Company. (See Smith, William A., Sr., assignor.)
International Harvester Company. (See Jedrzykowski, Edmund, assignor.)
International Harvester Company. (See Lautzenhiser, F. B., and Colacuori, assignors.)
International Harvester Company. (See Lindgren, A. C., and Mott, assignors.)
International Harvester Company. (See Welty, Albert B., assignor.)
International Nickel Company. (See Wise, E. M., and Schaefer, assignors.)
International Telephone & Radio Manufacturing Corporation. (See Alford, Andrew, assignor.)
International Telephone & Radio Manufacturing Corporation. (See Kandoian, Armig G., assignor.)
Irving, Walter E. (See Barry, R. J., and Rasmussen, assignors.)
Ives, Edward L. (See Brassert, H. A., and Ives.)
Izard, Emmette F., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coagulating cellulosic solutions. 2,283,809; May 19.
J. P. Engineering Company Limited. (See Booton, Charles F., assignor.)
Jackes-Evans Manufacturing Company. (See Toelke, A. F., and Wenta, assignors.)
Jackson, John G., assignor to Square D Company, Detroit, Mich. Circuit breaker. 2,283,736; May 19.
Jacobsen Manufacturing Company. (See Krenzke, William F., assignor.)
Jacobsen, Oystein, Montgomery County, assignor to The Duriron Company, Inc., Dayton, Ohio. Diaphragm valve. 2,283,369; May 19.
Jacobus, Dale P., St. Johnsbury, Vt., assignor to Fairbanks, Morse & Co., Chicago, Ill. Beam locking device. 2,283,634; May 19.

James, Barry C., Ashtabula, Ohio. Quick-convertible screen and storm window. 2,283,635; May 19.
James, Claude J., assignor to Cyclite Company, Inc., Milwaukee, Wis. Periodic switch. 2,283,442; May 19.
Jasco, Incorporated. (See Gleason, Anthony H., assignor.)
Jedrzykowski Edmund, Chicago, Ill., assignor to International Harvester Company. Internal combustion engine. 2,283,370; May 19.
Jennings, Andrew B. (See Middleton, E. B., and Jennings.)
Jensen, John, assignor to Whitney Metal Tool Company, Rockford, Ill. Method and means for producing sheet metal joint locks and the like. 2,283,258; May 19.
Johnson Bronze Company. (See Sandler, Louis, assignor.)
Johnson, Charles F., assignor to Reed Roller Bit Company, Houston, Tex. Valve. 2,283,259; May 19.
Johnson, Corydon M., Freeport, N. Y. Latch for handhold covers. 2,283,371; May 19.
Johnson, Frank W., South Pasadena, Calif. Valve. 2,283,605; May 19.
Johnson, John A., Woodhaven, N. Y. Making receptacle closure caps. 2,283,503; May 19.
Johnson, John A., Woodhaven, N. Y. Severing disks from webs. 2,283,504; May 19.
Johnson, Malcolm E., Wembley, assignor to The British Power Boat Company Limited, Hythe Southampton, England. Control valve. 2,283,810; May 19.
Johnson, Malcolm S., assignor to Illinois Railway Equipment Company, Chicago, Ill. Wear elements for brake hanger bracket. 2,283,636; May 19.
Johnson, Malcolm S., assignor to Illinois Railway Equipment Company, Chicago, Ill. Brake head lug and socket wear element. 2,283,637; May 19.
Johnson, Samuel J., West Chester, assignor to Clopay Corporation, Cincinnati, Ohio. Reversible window shade. 2,283,329; May 19.
Jones, William S., and W. Braker, Brooklyn, assignors to E. R. Squibb & Sons, New York, N. Y. Quinolineazo compounds. 2,283,211; May 19.
Jorgensen, Bernhardt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Method of and apparatus for making shoes. 2,283,260; May 19.
Jorsch, Matthew A., Detroit, Mich. Wall insulation. 2,283,257; May 19.
Joudry, Frederick, Kelowna, British Columbia, Canada. Paint mixing device. 2,283,737; May 19.
Joy, Joseph F., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 2,283,212; May 19.
Jump, George H., Newton, Mass., assignor to General Electric Company. Electrical regulating system. 2,283,738; May 19.
Junkers Flugzeug-und-Motorenwerke A. G. (See Gerlach, M., and Gerecke, assignors.)
Kaiser, Otto, assignor to the firm of Society of Chemical Industry In Basle, Basel, Switzerland. Yellow azo dyestuffs. 2,283,261; May 19.
Kaiser, Wilhelm J. (See Hentrich, W., Lainau, and Kaiser.)
Kalmar, Arthur F., Riverside, assignor to Food Machinery Corporation, San Jose, Calif. Apparatus for treating fruit. 2,283,372; May 19.
Kalmbach, Frederick, Jr., Mount Vernon, N. Y., assignor to General Machine Company, Inc., New York, N. Y. Ash relief door. 2,283,811; May 19.
Kamlet, Jonas, Brooklyn, N. Y., assignor to Miles Laboratories, Inc., Elkhart, Ind. Diagnostic composition and method. 2,283,262; May 19.
Kandolan, Armig G., assignor to International Telephone & Radio Manufacturing Corporation. Phase measuring arrangement. 2,283,676; May 19.
Kandolan, Armig G., assignor to International Telephone & Radio Manufacturing Corporation. Localizer beacon. 2,283,677; May 19.
Kanhofer, Elmer R. (See Day, R. B., and Kanhofer.)
Kansas City Journal-Post Company. (See Fehrenbach, Daniel W., assignor.)
Karpen, S., & Bros. (See Beck, Ernie J.)
Karrick, Lewis C., Salt Lake City, Utah. Valve. 2,283,556; May 19.
Kasper, Elmer J., assignor to The P. A. Geier Company, Cleveland, Ohio. Suction cleaner outlet construction. 2,283,557; May 19.
Kates, Willard A., assignor to Corning Glass Works, Corning, N. Y. Pump. 2,283,263; May 19.
Kates, Willard A. (See Adams, H. E., and Kates.)
Katz, Benjamin S., Cincinnati, assignor to Gruen Watch Company, Time Hill, Cincinnati, Ohio. Movement for wrist watches. 2,283,330; May 19.
Katzow, Abram, Indianapolis, Ind. Refrigerating system. 2,283,213; May 19.
Kaufmann & Baer Company. (See Ashley, E. E., and Blumenthal, assignors.)
Kelley, Charles K., Chicago, Ill. Goggle frame. 2,283,739; May 19.
Kells, Lyman M. (See Tyler, J., Kells, Kern, and Bland.)
Kelsey-Hayes Wheel Company. (See Sinclair, Charles W., assignor.)
Kennedy, Donald S., Longparish, Andover, England. Nonskid device. 2,283,264; May 19.
Kern, Willis F. (See Tyler, J., Kells, Kern, and Bland.)
Kestor, L. R., et al. (See Means, Eldon A., assignor.)
Kimpton, William H., Spondon, near Derby, England, assignor to Celanese Corporation of America. Yarn winding machinery. 2,283,265; May 19.
Kinetic Chemicals, Inc. (See Calcott, William S., assignor.)
Kinsella, Edward, Spondon, near Derby, England, assignor to Celanese Corporation of America. Distribution of fluids. 2,283,266; May 19.
Klein, Cletus A., Caro, Mich. Wrecking crane. 2,283,443; May 19.
Klein, Victor G., St. Louis, and L. C. Rotter, Maplewood, assignors to Lincoln Engineering Company, St. Louis, Mo. Injector. 2,283,638; May 19.
Kleinert, I. B., Rubber Company. (See Pfaun, Neil M., assignor.)
Klemm, Hanns, Boblingen, Wurttemberg, Germany, assignor, by mesne assignments, to Davis & Company, Incorporated, Houston, Tex. Adhesive composition. 2,283,740; May 19.
Kline, Bernard L., Manhasset, assignor to The Western Union Telegraph Company, New York, N. Y. Electrically conductive paper and producing the same. 2,283,558; May 19.
Kling, August J., Scotia, N. Y., assignor to General Electric Company. Electric discharge device. 2,283,639; May 19.
Koehler, Arthur R., Overland Park, Kans. Keyhole light. 2,283,444; May 19.
Kohinka, Martin F., Rio Dell, Calif. Insect brushing device. 2,283,812; May 19.
Kohl, Everard F., Cleveland, Ohio. Clutch and mechanism for effecting axial movement of a driven member. 2,283,267; May 19.
Kooperativa Förbundet Förening U. P. A. (See Ståhl, Nils E. J., assignor.)
Koperlik, Benjamin F. (See Greenwood, Benjamin K., assignor.)
Kopp, Walter R., and D. Emerson, assignors to Western Cartridge Company, New Haven, Conn. Hand lamp. 2,283,559; May 19.
Kostick, Walter A., Minneapolis, Minn. Dumping truck lift. 2,283,857; May 19.
Krafft, Bert H., Chicago, Ill., assignor to E. La Katos, Newark, N. J. Spool holder. 2,283,373; May 19.
Kreiling, August H., Chicago, Ill., assignor to Ferriss Pharmacal Company, Inc. Can clamp or similar device. 2,283,813; May 19.
Kreinin, Jacob M., Moscow, Union of Soviet Socialist Republics. Apparatus for projecting images of transparent or opaque objects and script on a screen. 2,283,268; May 19.
Krenzke, William F., assignor to Jacobsen Manufacturing Company, Racine, Wis. Power lawn mower equipment for direct connection to tractors. 2,283,269; May 19.
Kretchmer, Frank P., Los Angeles, Calif. Inspection tool. 2,283,560; May 19.
Kronmiller, Carl G., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Switching mechanism. 2,283,374; May 19.
Kuerner, George W., Mobile, Ala., assignor to Aluminum Company of America, Pittsburgh, Pa. Dust collector. 2,283,858; May 19.
Kupferle, John C., Foundry Company. (See Heinkel, John, assignor.)
Kwon, Doin, Honolulu, territory of Hawaii. Venetian blind. 2,283,640; May 19.
Kyrides, Lucas P., Webster Groves, assignor to Monsanto Chemical Company, St. Louis, Mo. Washing, wetting, and emulsifying agents. 2,283,214; May 19.
Lainau, Carl A. (See Hentrich, W., Lainau, and Kaiser.)
La Katos, Emery. (See Krafft, Bert H., assignor.)
Lakatos, Emory. (See Hickman, C. N., and Lakatos.)
Lakatos, Emory, New York, N. Y., and H. T. Reeve, Millburn, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic contact structure. 2,283,859; May 19.
Landis Machine Company. (See Nell, Frederic, assignor.)
Landis, Richard P., Grass Valley, assignor to Diamond Sanilift Company, Inc., San Francisco, Calif. Combination lift and flushing device for toilets. 2,283,678; May 19.
Lane, John T., New York, N. Y. Claw bar. 2,283,215; May 19.
Lang, Kenneth. (See Grant, C., Cool, and Lang.)
Lange, Bror G., Jonkoping, assignor to Aktiebolaget Svenska Fläktfabriken, Stockholm, Sweden. Liquid fuel burner. 2,283,445; May 19.
La Place, Desmond R., assignor to Bocjl Corporation, Pittsburgh, Pa. Staple and stapling. 2,283,814; May 19.
Lathrop, Harry D., assignor to The Lathrop-Paulson Company, Chicago, Ill. Washing device. 2,283,679; May 19.
Lathrop-Paulson Company, The. (See Lathrop, Harry D., assignor.)
Laurenson, Robert M., Forest Hills, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical relay. 2,283,270; May 19.
Lautzenhiser, Fred B., Chicago, and S. Colacuori, Riverside, Ill., assignors to International Harvester Company. Calculator. 2,283,375; May 19.

Lawton, George W., assignor to The United States Bung Manufacturing Company, Cincinnati, Ohio. Bung forming apparatus. 2,283,331; May 19.
Layne, Forrest D., assignor of one-half to J. E. Piersol, and J. E. Piersol, Jr., Oklahoma City, Okla. Prevention of interference in telephone circuits. 2,283,891; May 19.
Leechgrip Company. (See Spencer, Herman J., assignor.)
Lennox, Thomas C., Pittsfield, Mass., assignor to General Electric Company. Control system. 2,283,741; May 19.
Lenthall, Robert, London, England, assignor, by mesne assignments, to The Scholl Mfg. Co., Inc., Chicago, Ill. Foot arch support. 2,283,446; May 19.
Leonard, Stephen C., Pittsfield, Mass., assignor to General Electric Company. Hysteresoscope. 2,283,742; May 19.
Leroy, Pierre E. (See Mergier, P. L., and Leroy.)
Leslie, Howard C., Milton, assignor to B R E Manufacturing Co., Hyde Park, Mass. Water closet seat. 2,283,892; May 19.
Leslie, Howard C., Milton, assignor to B R E Manufacturing Co., Hyde Park, Mass. Water closet seat. 2,283,893; May 19.
Lessig, Edward T., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Testing resilient materials. 2,283,743; May 19.
Lethlean, William F., Haines, assignor of one-half to F. D. Baird, Baker, Oreg. Automatic land leveler. 2,283,744; May 19.
Levi, Edna, et al. (See Nicholas, Harold I., assignor.)
Levine, Harry, Brooklyn, N. Y. String clasp or button for envelopes. 2,283,815; May 19.
Lewers, George R. (See Martin, W. S., and Lewers.)
Lewis, Charles S. (See Bundy, W. O., Jr., Lewis, and Erlich.)
Lewis, Frank M., Weston, Mass., assignor to American Locomotive Company, New York, N. Y. Twin bank engine. 2,283,606; May 19.
Libbey-Owens-Ford Glass Company. (See Gunther, Leon F., assignor.)
Libbey-Owens-Ford Glass Company. (See Haven, Charles D., assignor.)
Libbey-Owens-Ford Glass Company. (See Lowry, Clyde D., assignor.)
Libbey-Owens-Ford Glass Company. (See Roesch, G. R., and White, assignors.)
Liebowitz, S., & Sons, Inc. (See Burkey, Lawrence G., assignor.)
Light, David M., assignor to American Steel Foundries, Chicago, Ill. Four-wheel truck. 2,283,332; May 19.
Lincoln Engineering Company. (See Klevin, V. G., and Rotter, assignors.)
Lindfelt, Edward C., Des Moines, Iowa. Mitten. 2,283,561; May 19.
Lindgren, Alexus C., Cherry Valley, and C. W. Mott, La Grange, Ill., assignors to International Harvester Company. Tractor-attached implement. 2,283,377; May 19.
Lindgren, Frank A., Western Springs, assignor to Goodman Manufacturing Company, Chicago, Ill. Kerf-cutting mining machine. 2,283,376; May 19.
Lindner, Philip J. (See Ernst, W., and Lindner.)
Liner, Joseph I., Toledo, Ohio. Temperature indicator. 2,283,378; May 19.
Lines, Harold A., West Haven, assignor of one-half to A. G. Purdue, New Haven, Conn. Regulating device for furnaces or the like. 2,283,745; May 19.
Lithograph Press Manufacturing Company, The. (See Holtz, Ray F., assignor.)
Lister, William, Chicago, Ill. Vaporizing apparatus. 2,283,562; May 19.
Loha, Willy, Berlin-Siemensstadt, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany. Rack drive. 2,283,746; May 19.
Longfield, William F., assignor to The Cleveland Punch & Shear Works Company, Cleveland, Ohio. Metalworking press. 2,283,505; May 19.
Loomis, Evarts G., Newark, N. J. Fluid pressure control system. 2,283,271; May 19.
Lorica Laboratories, Inc. (See Thompson, Roy E., assignor.)
Loughridge, Matthew H., Bogota, N. J. Justifying mechanism. 2,283,680; May 19.
Loutrel, Louis P., Ozone Park, N. Y. Grip handle for fishing rods. 2,283,816; May 19.
Lowry, Clyde D., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Blackboard construction. 2,283,272; May 19.
Lowry, Erwin F. Swampscott, assignor to Hygrade Sylvania Corporation, Salem, Mass. Cathode for discharge tubes. 2,283,216; May 19.
Ludin, Charles E. (See Singer, Henry, assignor.)
Ludwig, Albert J., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Muffler device. 2,283,607; May 19.
Lundvall, John S. (See O'Connor, A. F., and Lundvall.)
Lyons, Orlin W., Tulsa, Okla., assignor to The Dow Chemical Company, Midland, Mich. Treatment of wells. 2,283,563; May 19.
MacCallum, Frank, Birmingham, assignor to Maxolite Holdings Limited. London, England. Dry battery. 2,283,379; May 19.

MacManus, John, Yonkers, N. Y., assignor to Cushman's Sons Inc. Packaged cake. 2,283,380; May 19.
MacMillin, Howard F., and P. C. Pocock, Mount Gilead, Ohio, assignors to The Hydraulic Development Corporation, Inc., Wilmington, Del. Press brake. 2,283,447; May 19.
Madsen, Soren, Bergenfield, N. J., assignor to Perey Manufacturing Company, Inc., New York, N. Y. Turnstile. 2,283,681; May 19.
Magnavox Company. (See Clark, Richard U., assignor.)
Maki, George J., Elmhurst, Ill., assignor to Radio Corporation of America. Locking circuit. 2,283,381; May 19.
Malek, Edward J., Euclid, assignor to The Aetna Rubber Company, Cleveland, Ohio. Refrigerator lid. 2,283,448; May 19.
Mandl, Siegmund, assignor to Blackhawk Mfg. Co., Milwaukee, Wis. Ratchet mechanism. 2,283,382; May 19.
Manley, Gulbert E. (See Pratt, J. H., Manley, and Girling.)
Manning, John R., assignor of one-fourth to S. Winston and one-fourth to M. Donaldson, Sante Fe, N. Mex. Wheel structure. 2,283,860; May 19.
Marcy, Richard C., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Sandal. 2,283,273; May 19.
Marquette Manufacturing Co. (See Akins, Clifford M., assignor.)
Marshall, Claire A. (See Hull, D. C., and Marshall.)
Marshall, John T., assignor to Bendix Aviation Corporation, South Bend, Ind. Dash pot. 2,283,682; May 19.
Marshall, Louis O. (See Fosterman, A. A., and Marshall.)
Martin, Elmore L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical process. 2,283,083; May 19.
Martin, Gustav J., Elmhurst, and M. R. Thompson, Great Neck, assignors to William R. Warner & Company, Inc., New York, N. Y. Detoxicant. 2,283,817; May 19.
Martin, James V., Clintondale, N. Y. Safety tire. 2,283,274; May 19.
Martin, J. F., et al. (See Overbey, Herman T., assignor.)
Martin, Lynn P., assignor to W. A. Sheaffer Pen Company, Fort Madison, Iowa. Fountain pen. 2,283,333; May 19.
Martin, Warren S., Bayside, and G. R. Lewers, Brooklyn, assignors to Underpinning & Foundation Co., Inc., New York, N. Y. Incineration. 2,283,641; May 19.
Mathes, Roger A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Vulcanization of rubber. 2,283,747; May 19.
Mathias, John R., Washington, D. C. Soap holder. 2,283,875; May 19.
Mathieu, Joseph X., Pittsfield, Mass., assignor to General Electric Company. Switch. 2,283,748; May 19.
Matthews, William A., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Automatic banking means for airplane gyro pilots. 2,283,754; May 19.
Matthews, William B., Irvington, N. J. Athletic protector. 2,283,684; May 19.
Maury, Richmond. (See Swinford, Leo, assignor.)
Maxolite Holdings Limited. (See MacCallum, Frank, assignor.)
May, Harold F. (See Daine, R. L., and May.)
McBride, Samuel R., Long Beach, assignor to H. L. F. Company, Los Angeles, Calif. Fine texture casting. 2,283,749; May 19.
McCreery, George L., and V. E. Campbell, Wadsworth, assignors to The Ohio Brass Company, Mansfield, Ohio. High resistance conducting coating for electric insulators. 2,283,685; May 19.
McCullough, William E., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Bearing. 2,283,217; May 19.
McCullough, William E., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Manufacturing bearings. 2,283,218; May 19.
McCullough, William E., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Bearing. 2,283,219; May 19.
McCune, Alice W., St. Louis, Mo. Conditioning appliance for oral and dental use. 2,283,686; May 19.
McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake control means. 2,283,608; May 19.
McDonald, John E., Boston, assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass. Fan. 2,283,609; May 19.
McLane, Forrest M., Montebello, Calif., assignor to Stauffer Chemical Company. Insecticidal composition including walnut shell flour. 2,283,275; May 19.
McLaughlin & Wallenstein. (See Baum, Nathaniel, assignor.)
McNabb, Louis A., assignor to The Bell & Howell Company, Chicago, Ill. Vibration damping device. 2,283,861; May 19.
McNally, James G., and J. B. Dickey, assignors to Eastman Kodak Company, Rochester, N. Y. Azo compounds and material colored therewith. 2,283,220; May 19.
McNaney, Joseph T., Baltimore, Md. Signaling system. 2,283,383; May 19.

Means, Eldon A., Wichita, Kans., assignor of forty-two and one-half per cent to W. Carpenter, Scott City, forty-two and one-half per cent to L. R. Kestor, Garden City, Kans., and fifteen per cent to C. Bingesser. Drilling mud. 2,283,564; May 19.

Meeks, William N. (See Cox, John H., assignor.)

Mejias, Luis C., Caracas, Venezuela. Nut cracking machine. 2,283,876; May 19.

Melhose, Alfred E. (See Hall, J. A., and Melhose.)

Meneux, Charles, Nantes, S. G. Bourdin, Angers, and L. Chaussé, Nantes, France. Gaelic separator. 2,283,449; May 19.

Mercier, Jean, Neuilly-sur-Seine, France. Braking arrangement for the wheels of aircraft. 2,283,687; May 19.

Merco-Trinkle Machine Co. (See Trinkle, Dallas R., assignor.)

Mergier, Paul L., and P. E. Leroy, Paris, France. Molding colloidal matters. 2,283,688; May 19.

Merritt, George E. (See Briechle, A., Harley, and Merritt.)

Metropolitan Device Corporation. (See Soehner, John D., assignor.)

Michaels, Frank L., Fort Thomas, Ky. Logging strip printing apparatus. 2,283,221; May 19.

Michelsen, William O., Woodhaven, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 2,283,565; May 19.

Middleton, Edmund R., Metuchen, and A. B. Jennings, New Brunswick, N. J., assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Photographic composition containing arylides of N-heterocyclic acylacetic acids and developing photographic images therewith. 2,283,276; May 19.

Mies, Ludwig, Chicago, Ill. Article of furniture. 2,283,755; May 19.

Mikelson, Walter, Schenectady, N. Y., assignor to General Electric Company. Apparatus for measuring the density of gases. 2,283,760; May 19.

Miles Laboratories, Inc. (See Kamlet, Jonas, assignor.)

Milkweed Products Development Corporation. (See Berkman, Boris, assignor.)

Miller, Frank A., Troy, and J. D. De Voge, Watervliet, N. Y. Riffing tool. 2,283,222; May 19.

Miller, Frank W., assignor to Franciare Company, Chicago, Ill. Reconditioning boilers. 2,283,451; May 19.

Miller, John H., Short Hills, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Thermal converter circuit. 2,283,566; May 19.

Miner, W. H., Inc. (See Olander, Roland J., assignor.)

Minneapolis-Honeywell Regulator Company. (See Holmes, Gifford I., assignor.)

Minneapolis-Honeywell Regulator Company. (See Kronmiller, Carl G., assignor.)

Minneapolis-Honeywell Regulator Company. (See Newton, Alwin B., assignor.)

Minneapolis-Honeywell Regulator Company. (See Scoggin, Elmer K., assignor.)

Mitchell, Douglas T., Scarsdale, N. Y. Pilot socket for radios. 2,283,689; May 19.

Mitchell, Edmund G., Godfrey Township, Madison County, H. C. Schaper and E. Hartsborne, Alton, assignors to Western Cartridge Company, East Alton, Ill. Ingot mold. 2,283,450; May 19.

Modine, Arthur B., St. Petersburg, Fla. Golf swing indicator. 2,283,277; May 19.

Mohr, Milton E., Jamaica, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,283,610; May 19.

Molden, George H., assignor to The Sprague Meter Company, Bridgeport, Conn. Gyratory valve disk. 2,283,452; May 19.

Molybdenum Corporation of America. (See Tisdale, Norman F., assignor.)

Moncada, Ramon A., Cordoba, Argentina. Motion transforming mechanism. 2,283,506; May 19.

Monsanto Chemical Company. (See Kyrides, Lucas P., assignor.)

Moore, Everett B., assignor to Wonder Weave, Incorporated, Bridgeport, Conn. Weaving machine. 2,283,670; May 19.

Morris Paper Mills. (See Arneson, Erwin L., assignor.)

Morrison, Charles C. (See Willis, Maurice B., assignor.)

Morse, Oliver C., Stoneham, Mass. Sock. 2,283,278; May 19.

Morton, Henry E., Muskegon Heights, Mich. Flash removing machine. 2,283,507; May 19.

Morton, William P. (See Williams, Charles H., assignor.)

Mott, Carl W. (See Lindgren, A. C., and Mott.)

Mouromtseff, Ilia E., Montclair, and G. M. Dinnick, Bloomfield, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Ultra-high frequency oscillator. 2,283,805; May 19.

Mouromtseff, Ilia, Montclair, and G. M. Dinnick, Bloomfield, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Cathode structure. 2,283,806; May 19.

Mouromtseff, Ilia E., Montclair, and G. M. Dinnick, Bloomfield, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Ultra-high frequency tube. 2,283,804; May 19.

Moxley, William M., Kansas City, Mo. Battery retainer for electric hand lanterns. 2,283,384; May 19.

Müller, Willy. (See Felix, F., and Müller.)

Munson, Whitney K., East Orange, N. J. Base attachment for telephones. 2,283,690; May 19.

Murphy, Chalmer E., Cleveland Heights, assignor to Porcelain Steels, Inc., Cleveland, Ohio. Support. 2,283,279; May 19.

Murray, Marjorie E., Meadville, Pa., assignor to Talon, Inc. Slide fastened closure construction for sheer garments. 2,283,642; May 19.

Myers, F. E., & Bro. Company, The. (See Finley, Karl L., assignor.)

Naftali, Valentine. (See Naftali, Rudolf, V., and H.)

Naftali, Rudolf, and V., Pelham Manor, and H. Naftali, assignors to American Machine & Foundry Company, New York, N. Y. Tie stitching machine. 2,283,691; May 19.

Naltali, Valentine. (See Naftali, Rudolf, V., and H.)

Nagle, Theodore, Brooklyn, N. Y. Making gas from oil. 2,283,643; May 19.

Naillinger, Fritz, Stuttgart, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Aircraft. 2,283,223; May 19.

Nallinger Fritz, Stuttgart, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Control system. 2,283,644; May 19.

Napier, D., & Son Limited. (See Halford, F. B., and Barlow, assignors.)

Narramore, Emmet W. (See Bean, J., and Narramore.)

Nash Engineering Company. (See Adams, H. E., assignor, and Kates.)

National Oil Products Company. (See Briod, A. E., and Dombrow, assignors.)

National Oil Products Company. (See Davis, G. D., and Porter, assignors.)

National Screw & Manufacturing Company. (See Erdman, Harvey C., assignor.)

Neal Arthur M., Wilmington, Del., and B. M. Sturgis, Pitman, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Vulcanisation of rubber. 2,283,334; May 19.

Neal, Arthur M., Wilmington, Del., and B. M. Sturgis, Pitman, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Vulcanisation of rubber. 2,283,335; May 19.

Neal, Arthur M., Wilmington, Del., and B. M. Sturgis, Pitman, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Vulcanisation of rubber. 2,283,336; May 19.

Neal, Arthur M., Wilmington, Del., and B. M. Sturgis, Pitman, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Vulcanisation of rubber. 2,283,337; May 19.

Nealey, James B., Wilton, Conn. Welding torch. 2,283,567; May 19.

Neiman, Robert, assignor to Edmund A. Steinbock, Louisville, Ky. Composition. 2,283,611; May 19.

Nell, Frederic, assignor to Landis Machine Company, Waynesboro, Pa. Collapsible tap. 2,283,280; May 19.

Nelson, Charles E., assignor to The Dow Chemical Company, Midland, Mich. Purification of metal halide fluxes. 2,283,884; May 19.

Neustadt, David, assignor to Columbia Dentoform Corp., New York, N. Y. Dental articulator. 2,283,385; May 19.

Neva-Clog Products, Inc. (See Vogel, Max, assignor.)

Newhall, Walter S., Chagrin Falls, Ohio. Switch stand. 2,283,645; May 19.

Newton, Alwin B., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Air conditioning system. 2,283,386; May 19.

New Wrinkle, Inc. (See Drummond, F. E., and Waldie, assignors.)

Nicholas, Harold I., assignor of one-half to E. Levi, and one-half to A. T. Gade, Chicago, Ill. Telephone apparatus and circuit therefor. 2,283,646; May 19.

Nichols, Harry J. Binghamton, N. Y. Projectile. 2,283,224; May 19.

Noblee & Thörle G. m. b. H. (See Pardun, Hermann, assignor.)

Noblitt-Sparks Industries, Inc. (See Booth, Earl C., assignor.)

Norelius, Emil F., Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Bearing. 2,283,871; May 19.

Norma-Hoffman Bearings Corporation. (See Wright, Frank L., assignor.)

Norton Company. (See Cole, Raymond A., assignor.)

Norton Company. (See Weinland, Hermon G., assignor.)

Norton, John T., Cambridge, Mass. Torsion pendulum damping apparatus. 2,283,453; May 19.

Nye, Henry V., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Circuit breaker. 2,283,874; May 19.

O'Connor, Arthur F., assignor to Union Asbestos & Rubber Company, Chicago, Ill. Refrigeration car construction. 2,283,508; May 19.

O'Connor, Arthur F., and J. S. Lundvall, assignors to Union Asbestos & Rubber Company, Chicago, Ill. Convertible bulkhead for refrigerator cars. 2,283,756; May 19.

Odekirk, Glenn E. (See Hughes, H. R., Bell and Odekirk.)

Ohio Brass Company, The. (See Chandler, Homer P., assignor.)

Ohio Brass Company, The. (See Goss, Richard C., assignor.)

Ohl, Russell S., Little Silver, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Ultra-high frequency system. 2,283,568; May 19.

Ohls, Robert L., assignor to Reed Roller Bit Company, Houston, Tex. Valve. 2,283,281; May 19.

Oilgear Company, The. (See Tyler, Ransom, assignor.)

Olander, Roland J., assignor to W. H. Miner, Inc., Chicago, Ill. Railway draft rigging. 2,283,387; May 19.

Oldetyme Distillers Corporation. (See Edwards, Edward P., assignor.)

Oliver Farm Equipment Company. (See Altgelt, Herman E., assignor.)

Oliver, Henry N. (See Fields, T. W., and Oliver.)

Oliver United Filters Incorporated. (See Evans, Franklin J., assignor.)

Opichka, Olaf E. (See Bassett, B. J., and Opichka.)

Osterday, William H. H. (See Henkell, Victor M., assignor.)

Osterloo, Arthur, Kansas City, Mo. Socket for tube lamps. 2,283,454; May 19.

Ottinger, Leon. (See Gage, Edward G., assignor.)

Otto, Carl, New York, N. Y., assignor to Fuel Refining Corporation, Dover, Del. Coke oven door cleaning means. 2,283,282; May 19.

Overbey, Herman T., assignor of forty-five per cent to J. F. Martin, and ten per cent to H. P. Taylor, both of Wadesboro, N. C. Pneumatic stop motion for spinning and twisting machines. 2,283,283; May 19.

Overman, Ivan J., assignor to Overmander Machine, Inc., Marion, Ind. Spreader for asphalt and the like. 2,283,455; May 19.

Overmander Machine, Inc. (See Overman, Ivan J., assignor.)

Owens-Corning Fiberglas Corporation. (See Guyard, Leon J. B., assignor.)

Owner, Frank M., assignor to The Bristol Aeroplane Company Limited, Bristol, England. Change-speed gearing. 2,283,284; May 19.

Oxweld Acetylene Company. (See Young, Lloyd W., assignor.)

Paldani, George F., Waukegan, Ill. Gun sight. 2,283,692; May 19.

Palmer, Harry L., Schenectady, N. Y., assignor to General Electric Company, Electric valve control system. 2,283,647; May 19.

Papendick, Inc. (See Thum, Walter A., assignor.)

Paper Partitions, Inc. (See Delegard, Carl J., assignor.)

Pardun, Hermann, assignor to the firm Noblee & Thörd G. m. b. H., Hamburg-Harburg, Germany. Separating unsaponifiable substances from their mixtures or compounds with saponifiable substances. 2,283,456; May 19.

Parrott, Charles M., and R. B. Barrett, Mount Pleasant, Tex. Dispenser. 2,283,757; May 19.

Parsek, Lucy, West New York, N. J. Beach locker. 2,283,225; May 19.

Paul, Philip T., Naugatuck, and L. H. Howland, Cheshire, Conn., assignors to United States Rubber Company, New York, N. Y. Antioxidant. 2,283,388; May 19.

Paul, William E., Schenectady, N. Y., assignor to General Electric Company. Electric circuit breaker. 2,283,693; May 19.

Pawsey, Joseph L. (See Cork, E. C., and Pawsey.)

Peatrophone Corporation. (See Van Deventer, Harry R., assignor.)

Pecker, Joseph S., Philadelphia, Pa. Centrifugal separator. 2,283,457; May 19.

Pedersen, Florian B., Alameda, Calif. Slicer. 2,283,569; May 19.

Pégard, Marcel, Paris, France. Drilling machine. 2,283,338; May 19.

Peltier, Leslie, assignor to The Delphos Bending Company, Delphos, Ohio. Drop-side crib. 2,283,570; May 19.

People of the United States of America, Dedicated to the free use of. (See Phillips, Max.)

Peremi, Edmund, and L. Toth, Manhasset, N. Y. Window operator. 2,283,862; May 19.

Perey Manufacturing Company. (See Madsen, Soren, assignor.)

Perrigo, Glenn H., assignor to Victor Flour Mills, Inc., Pittsford, N. Y. Making flour. 2,283,571; May 19.

Perrine, Lester E., assignor to General Motors Corporation, Detroit, Mich. Carbureting apparatus. 2,283,694; May 19.

Perry, Emanuel J., New Bedford, Mass. Apparatus for washing extracting and drying. 2,283,612; May 19.

Peters, John, Detroit, Mich. Feeding device. 2,283,227; May 19.

Petersen, Thorvald, assignor to Reed Manufacturing Company, Erie, Pa. Pipe cutter. 2,283,572; May 19.

Peterson, Johann G., West Hartford, Conn. Electric switch. 2,283,509; May 19.

Pfann, Nell M., assignor to I. B. Kleinert Rubber Company, New York, N. Y. Girdle supporting means. 2,283,459; May 19.

Phillips, Hyman, assignor to The Phillips Pump & Tank Company, Cincinnati, Ohio. Clamping ring. 2,283,339; May 19.

Phillips, Max, Washington, D. C., dedicated to the free use of the People of the United States of America. Making resinous condensation products. 2,283,458; May 19.

Phillips Petroleum Company. (See Hachmuth, Karl H., assignor.)

Phillips Petroleum Company. (See Youker, Malcolm P., assignor.)

Phillips Pump & Tank Company, The. (See Phillips, Hyman, assignor.)

Phosphate Recovery Corporation. (See Tartaron, F. X., and Duke, assignors.)

Pierce, James B., Jr., Charleston, assignor to Standard Ultramarine Company, Huntington, W. Va. Waterproofing and preventing efflorescence of mortar in masonry. 2,283,573; May 19.

Piersol, J. E., et al. (See Layne, Forrest D., assignor.)

Piersol, J. E., Jr., et al. (See Layne, Forrest D., assignor.)

Pieth, Peter. (See Straub, F., Pieth, Anderau, and Hanhart.)

Pillsbury, Howard G., assignor to Chamberlin Metal Weather Strip Company, Detroit, Mich. Panel securing means. 2,283,574; May 19.

Pike, Robert D., Piedmont, Calif. Calcining precipitated calcium carbonate and recovering CO_2 gas therefrom. 2,283,758; May 19.

Plax Corporation. (See Ferngren, Enoch T., assignor.)

Pocock, Paul C. (See MacMillin, H. F., and Pocock.)

Pohlman, Reimar, Berlin, Germany. Massage. 2,283,285; May 19.

Pollard, Willard L., Evanston, assignor to Adiel Y. Dodge, Rockford, Ill. Transmission. 2,283,759; May 19.

Porcelain Steels, Inc. (See Murphy, Chalmer E., assignor.)

Porsche, F., Dr. ing. h. c., K.-G. (See Schmitt, Karl, assignor.)

Porter, Harry B., Huntington, W. Va. Method and means for defining contours from stereoscopic photographs. 2,283,226; May 19.

Porter, Ralph E. (See Davis, G. D., and Porter.)

Porth, Frank L., Chicago, Ill., assignor to Colorgraphic Process Corporation. Making phonograph blanks. 2,283,286; May 19.

Potter, Charles M., Taft, assignor to Standard Oil Company of California, San Francisco, Calif. Drilling wells. 2,283,510; May 19.

Pratt, James H., Birmingham, G. E. Manley, Earlswood, and A. H. G. Girling, Edgbaston, Birmingham, England. Hydraulic control mechanism. 2,283,695; May 19.

Pratt, Malcolm F., Woodbury, N. J., T. L. Apjohn, Kew Gardens, and J. Happel, Brooklyn, assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Varnish manufacture. 2,283,872; May 19.

Pray, Thomas E., assignor to Goodman Manufacturing Company, Chicago, Ill. Kerf-cutting machine. 2,283,461; May 19.

Pray, Thomas E., assignor to Goodman Manufacturing Company, Chicago, Ill. Kerf-cutting mining machine. 2,283,696; May 19.

Price, Towson, Glen Ridge, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric lamp and terminal device. 2,283,287; May 19.

Prickett, Thomas B. (See Houdry, E. J., and Prickett.)

Prince, David C., Swarthmore, Pa., assignor to General Electric Company. Electroresponsive device. 2,283,697; May 19.

Procter & Gamble Company, The. (See Hentrich, W., Lainau, and Kaiser, assignors.)

Pullis, George A., Hoboken, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Duplex signaling system. 2,283,760; May 19.

Pumphrey, Charles M., Wharton, Tex. Piston. 2,283,460; May 19.

Purdue, Albert G. (See Lines, Harold A., assignor.)

Putnam, Garth L. (See Fink, C. G., and Putnam.)

Radio Corporation of America. (See Cooper, Victor J., assignor.)

Radio Corporation of America. (See Cox, John W., assignor.)

Radio Corporation of America. (See Maki, George J., assignor.)

Radio Corporation of America. (See Roberts, Walter van B., assignor.)

Radio Corporation of America. (See Siemens, Rudolph H., assignor.)

Radio Corporation of America. (See Wood, Raymond A., assignor.)

Ramsey Manufacturing Company. (See Brouwer, George, assignor.)

Randle, Viola. (See Draper, G., and Randle.)

Rasmussen, Carl. (See Barry, R. J., and Rasmussen.)

Ray, William A., Glendale, Calif. Electric switch. 2,283,340; May 19.

Redman, Frank R., Yardley, Pa., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y. Launderable multiply fabric. 2,283,698; May 19.

Reed Manufacturing Company. (See Petersen, Thorvald, assignor.)

Reed Roller Bit Company. (See Boice, Elvin G., assignor.)

Reed Roller Bit Company. (See Johnson, Charles F., assignor.)

Reed Roller Bit Company. (See Ohls, Robert L., assignor.)
Reeve, Howard T. (See Lakatos, E., and Reeve.)
Refining, Inc. (See Thurman, Benjamin H., assignor.)
Regenbrecht, Albert, Linden, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Process and apparatus for burning sulphur. 2,283,228; May 19.
Reiner, Robert, Incorporated. (See Schoeneberg, August K., assignor.)
Reiser, Albert L., Columbus, Ohio. System for cooling beverages. 2,283,818; May 18.
Reuter, Martin. (See Sieglitz, A., and Reuter.)
Richards, Joseph B., Detroit, Mich. Mechanized cleaning device. 2,283,229; May 19.
Richardson, Ernest L., Melrose, Mass., assignor to General Electric Company. Textile and paper machine drive. 2,283,699; May 19.
Richfield Oil Corporation. (See Gardner, Robert I., assignor.)
Richie, James K., Butler, Pa. Golf ring cup. 2,283,462; May 19.
Richter, Edward, assignor one one-fourth to E. L. Schofield, Freeport, Ill. Seat adjuster. 2,283,761; May 19.
Roberts, Dudley. (See Cooper, L., and Roberts.)
Roberts, Walter van B., Princeton, N. J., assignor to Radio Corporation of America. High frequency transmission system. 2,283,575; May 19.
Robinson, Carl L., Danbury, Conn. Clothesline support. 2,283,576; May 19.
Robinson, William C., Bell, Calif. Paint spray nozzle. 2,283,762; May 19.
Roby, Sheldon S. Meriden, assignor to The Stanley Works, New Britain, Conn. Apparatus for operating doors. 2,283,577; May 19.
Roces, Rafael P. (See Zamora, V. M., and Roces.)
Rockola, David C., assignor to Rock-Ola Manufacturing Corporation, Chicago, Ill. Governor. 2,283,288; May 19.
Rock-Ola Manufacturing Corporation. (See Rockola, David C., assignor.)
Roesch, George R., and G. White, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Grinding apparatus. 2,283,289; May 19.
Rogers, George D., United States Army, Dover, N. J. Filling device for shells. 2,283,230; May 19.
Rogers, James S., Haverford, Pa. Baseball game. 2,283,578; May 19.
Roglin, Ernest C., assignor to The Hoover Company, North Canton, Ohio. Refrigeration. 2,283,763; May 19.
Röhm & Haas Company. (See Spence, Le Roy U., and Butterbaugh, assignors.)
Rosenbach, Johann, Wiesbaden, and G. Balle, Frankfort-on-the-Main, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Esterlike condensation products and preparing them. 2,283,764; May 19.
Rotter, Lutwin C. (See Klein, V. G., and Rotter.)
Royal Typewriter Company. (See Michelsen, William O., assignor.)
Rubatex Products, Inc. (See Cooper, L., and Roberts, assignors.)
Rubin, Samuel, New York, N. Y. Brush. 2,283,765; May 19.
Rupp, Raymond C., Kendallville, Ind. Combined tubular container and applicator. 2,283,463; May 19.
Rutherford, Edward J. Y., Chesham Bois, England. Oil burner. 2,283,819; May 19.
Saarinen, Armas J. (See Brubaker, W. S., and Saarinen.)
"Sacora" Soc. An Commercio Olii Rappresentanze Autotrasporti. (See Conconi, Ernesto Mario, assignor.)
Samdahl, Russell H., Black River Falls, Wis. Boat trailing equipment. 2,283,648; May 19.
Samuelson, Erhardt G., assignor of one-half to C. O. Holmes, Chicago, Ill. Cable connector. 2,283,649; May 19.
Sanborn, Charles M., assignor to Four Wheel Drive Anto Company, Clintonville, Wis. Earth sampling equipment. 2,283,650; May 19.
Sandberg, Ray A., Waukegan, Ill., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Automobile bumper guard. 2,283,464; May 19.
Sandler, Louis, assignor to Johnson Bronze Company, New Castle, Pa. Apparatus for planing coated strip. 2,283,579; May 19.
Sandler, Louis, assignor to Johnson Bronze Company, New Castle, Pa. Surfacing the bearing metal layer of composite bearing stock. 2,283,580; May 19.
Savage, Ballie N., Seattle, Wash. Treating citrus fruits. 2,283,290; May 19.
Sbicca, Arthur, Philadelphia, Pa. Tack. 2,283,766; May 19.
Scalzitti, Sebastian R., assignor of fifty percent to The Belt Grip Co., Paterson, N. J. Lubricant. 2,283,581; May 19.
Schaad, Raymond E., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of phenols. 2,283,465; May 19.
Schaefer, Edward J., Fort Wayne, Ind., assignor to General Electric Company. Protective system. 2,283,700; May 19.
Schaefer, Raymond H. (See Wise, E. M., and Schaefer.)
Schaper, Harry C. (See Mitchell, E. G., Schaper and Hartshorne.)
Schensted, Roy E., Clarion, Iowa. Stereoscopic motion pictures in colors. 2,283,466; May 19.
Scherer, Odin L., Newfane, assignor of one-half to C. De Lange, Lockport, N. Y. Wall panel. 2,283,582; May 19.
Schiller, Morgan B., Sewickley, Pa., assignor to American Tubular Elevator Company. Window structure. 2,283,389; May 19.
Schmelter, Gordon P. (See Collings, W. R., Gibb and Schmelter.)
Schmidt, Gottfried J., Pearl River, N. Y., assignor to Bowling Patents Management Corporation. Bowling pin lifting mechanism. 2,283,613; May 19.
Schmidt, Gottfried J., Pearl River, N. Y., assignor to Bowling Patents Management Corporation. Pin setter unit. 2,283,614; May 19.
Schmitt, Joy B., and F. Custer, assignors to The De Vilbiss Company, Toledo, Ohio. Atomizer. 2,283,341; May 19.
Schmitt, Karl, Stuttgart-Degerloch, assignor to Dr. ing. h. c. F. Porsche K.-G., Stuttgart-Zuffenhausen, Germany. Electrical distribution system. 2,283,231; May 19.
Schoenenberg, August K., Grantwood, assignor to R. Reiner, Incorporated, Weehawken, N. J. Yarn tension device. 2,283,767; May 19.
Schoengarth, Walter L., Ironwood, Mich., assignor to B. G. Harmon, Chicago, Ill. Piston for internal combustion engines. 2,283,651; May 19.
Schofield, Earl L. (See Richter, Edward, assignor.)
Scholl Mfg. Co., The. (See Lenthall, Robert, assignor.)
Scholz, Alfred G., San Francisco, Calif. Periodical holder. 2,283,468; May 19.
Schorger, Arlie W., and J. H. Ferguson, Madison, Wis., assignors to Burgess Cellulose Company, Freeport, Ill. Making molded lignocellulosic products. 2,283,820; May 19.
Schorger, Arlie W., Madison, Wis., and J. H. Ferguson, asignors to Burgess Cellulose Company, Freeport, Ill. Molded lignocellulosic material and making same. 2,283,821; May 19.
Schreiber, Morton. (See Fischer, Rens W., assignor.)
Schueler, Fred, Andover, assignor to John W. Bolton & Sons, Inc., Lawrence, Mass. Shower pipe cleaning device. 2,283,768; May 19.
Schuftan, Paul M., Richmond Hill, assignor to The British Oxygen Company Limited, London, England. Cooling of gaseous mixtures. 2,283,232; May 19.
Schwanzel, Lawrence G., Toledo, Ohio. Eye reaction testing. 2,283,769; May 19.
Schwarzkopf, Emil, Chicago, Ill. Liquid dispensing apparatus. 2,283,652; May 19.
Scoggin, Elmer K., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Stoker alarm system. 2,283,467; May 19.
Scott and Williams, Incorporated. (See Houseman, Harold E., assignor.)
Scovill Manufacturing Company. (See Clemmons, Herbert D., assignor.)
Seldén, Folke H., Langedrag, assignor to Aktiebolaget Götaverken, Gothenburg, Sweden. Afterbody of vessels. 2,283,291; May 19.
Seldomridge, Lonnie A., Long Beach, Calif. Egg holding device. 2,283,390; May 19.
Sellers, Bessie. (See Sellers, Ira and B.)
Sellers, Ira and B., Walla Walla, Wash. Invalid lifting device. 2,283,511; May 19.
Shadrick, Richard H., assignor to F. L. Dryg, Minneapolis, Minn. Variable speed pulley. 2,283,392; May 19.
Shafer, Lewis W., Buffalo, N. Y. Fishing appliance. 2,283,233; May 19.
Sharp & Dohme, Incorporated. (See Coghill, Robert D., assignor.)
Sheaffer, W. A., Pen Company. (See Martin, Lynn P., assignor.)
Shepard, Henry B., Newton, assignor to Stowe-Woodward, Inc., Newton Upper Falls Mass. Boring mechanism. 2,283,469; May 19.
Sherman, Charles W. (See Cooper, C., and Sherman.)
Shipman, James T. (See Hoffman, Fred D., assignor.)
Shogren, Charles A., Chicago, Ill. Window construction. 2,283,822; May 19.
Siano, Lucien, Ballston Spa, N. Y. Soap and water mixer. 2,283,770; May 19.
Sias, Richard, assignor to American Machinery Corporation, Orlando, Fla. Flotation fruit separator. 2,283,512; May 19.
Siefken, George R., New York, N. Y. Cooling and dehumidifying apparatus. 2,283,391; May 19.
Sieglitz, Adolf, and M. Reuter, Frankfort-on-the-Main, Germany, assignors to General Aniline & Film Corporation, New York, N. Y. Monoazo-dyestuffs soluble in water. 2,283823; May 19.
Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung. (See Brandt, Hermann, assignor.)
Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung. (See Lohs, Willy, assignor.)
Siemens, Rudolph H., Richmond Hill, N. Y., assignor to Radio Corporation of America. Oscillation generator circuit. 2,283,653; May 19.

Simons, Abraham, assignor to Hydrawmatic Machine Corporation, New York, N. Y. Reeling or spooling device and reeling wire and other material. 2,283,393; May 19.
Simonsen, Harold C., assignor of one-half to A. A. Evans, Monroe, Utah. Shearing machine. 2,283,824; May 19.
Sinclair, Charles W., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Brake. 2,283,654; May 19.
Singer, Henry, assignor of one-half to C. E. Ludin, Honolulu, Territory of Hawaii. Amusement device. 2,283,583; May 19.
Singer Manufacturing Company, The. (See Gresser, David A., assignor.)
Sirian Wire and Contact Company. (See Braselton, Chester H., assignor.)
Skinner, Bronson C., Dunedin, and J. J. R. Bristow, Safety Harbor, Fla., said Bristow assignor to said Skinner. Feeding apparatus. 2,283,615; May 19.
Skoog, Robert W. (See Hanson, H., and Skoog.)
Sloan, Roland H., New Brighton, N. Y. Salesman's presentation kit. 2,283,584; May 19.
Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Shaker conveyor trough and connecting means therefor. 2,283,825; May 19.
Slonczewski, Thaddeus, Glen Head, N. Y., and F. R. Stansel, Millburn, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Oscillographic method of frequency setting or measurement. 2,283,616; May 19.
Smith, Arthur E., Los Angeles, Calif. Hypodermic syringe construction. 2,283,234; May 19.
Smith, Chetwood, Worcester, Mass. Hot water storage system and pilot-operated relief device therefor. 2,283,513; May 19.
Smith, Edwin W. (See Topham, Laurence E., and Smith.)
Smith, Elberon D., Brooklyn, N. Y., assignor to American Machine & Foundry Company. Cigarette machine. 2,283,394; May 19.
Smith, Howard B., Washington, D. C. Typewriting machine. 2,283,235; May 19.
Smith Sidney R., Jr., Pittsfield, Mass., assignor to General Electric Company. Circuit interrupting element. 2,283,701; May 19.
Smith, William A., Sr., Athens, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Percussive tool. 2,283,292; May 19.
Smith, William L., Jr., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Knitted fabric and method. 2,283,585; May 19.
Societe pour la Fabrication des projecteurs Electriques Marchal (Societe Anonyme), Pantin, France. (See Décallon, Maurice, assignor.)
Society of Chemical Industry in Basle. (See Felix, F., and von Capeller, assignors.)
Society of Chemical Industry in Basle. (See Felix, F., and Müller, assignors.)
Society of Chemical Industry in Basle. (See Kaiser, Otto, assignor.)
Society of Chemical Industry in Basle. (See Straub, F., Pieth, Anderau, and Hanhart, assignors.)
Socony-Vacuum Oil Company. (See Pratt, M. F., Apjohn and Happel, assignors.)
Soday, Frank J., Upper Darby, Pa., assignor to The United Gas Improvement Company. Sulphonated derivatives of polymerized methylstyrene. 2,283,236; May 19.
Soehner, John D., Valley Stream, assignor to Metropolitan Device Corporation, Brooklyn, N. Y. Electric welding mechanism. 2,283,826; May 19.
Sokolec, William, et al. (See Coles, Henry L., assignor.)
Sow, Jung J., Vancouver, British Columbia, Canada. Calendar. 2,283,702; May 19.
Spence, Le Roy U., Elkins Park, and D. J. Butterbaugh, assignors to Röhm & Haas Company, Philadelphia, Pa. Halogenation of saturated aliphatic nitriles. 2,283,237; May 19.
Spencer, Herman J., West View, assignor to Leechgrip Company, Pittsburgh, Pa. Strapping device. 2,283,827; May 19.
Sperry Gyroscope Company. (See Harcum, William M., assignor.)
Sperry Gyroscope Company. (See Matthews, William A., assignor.)
Sperry Gyroscope Company. (See Witham, Raymond L., assignor.)
Spong, Norman C. (See Burson, Harry H., assignor.)
Sprague Meter Company, The. (See Molden, George H., assignor.)
Square D. Company. (See Jackson, John G., assignor.)
Squibb, E. R. & Sons. (See Jones, W. S., and Braker, assignors.)
Standard Oil Company of California. (See Potter, Charles M., assignor.)
Standard Ultramarine Company. (See Pierce, James B., Jr., assignor.)
Stanley Works, The. (See Roby, Sheldon S., assignor.)
Stansel, Frank R. (See Slonczewski, T., and Stansel.)
Stanworth, Arthur, Lebanon, Ind. Tool and holder structure. 2,283,514; May 19.
Start, Ernest. (See Start, Harry W. and E.)
Start, Harry W., Carlton, and E. Start, Wilford, assignors to G. Blackburn and Sons Limited, Nottingham, England. Knitting on straight-bar knitting machines. 2,283,771; May 19.
Stauffer Chemical Company. (See McLane, Forrest M., assignor.)
Stechbart, Bruno, assignor to The Bell & Howell Company, Chicago, Ill. Light shutter. 2,283,586; May 19.
Stedman, Norma, New York, N. Y. Fingernail stencil. 2,283,703; May 19.
Steiert, Herman A., New Centerville, Pa. Brush assembly. 2,283,293; May 19.
Steinbach, Warner, Maplewood, N. J. Method and apparatus for registering superimposed printings. 2,283,587; May 19.
Steinbock, Edmund A. (See Neiman, Robert, assignor.)
Stenvik, Kristoffer J. (See Goldschmidt, V. M., and Stenvik.)
Stohl, Nils E. J., assignor to Kooperativa Forbundet Förening U. P. A., Stockholm, Sweden. Tens transfer device. 2,283,655; May 19.
Studel, Erich O., Chicago, Ill. Display holder for bakery goods. 2,283,704; May 19.
Stewart, Andrew H., Shields, Pa. Manufacture of tile. 2,283,705; May 19.
Stimpson, Walter F. (See Conners, Carl L., assignor.)
Stimson, Allen G., Marblehead, Mass., assignor to General Electric Company. Protective system and device. 2,283,706; May 19.
Stixrud, Adolph O. (See Dalzell, Richard, assignor.)
Stokes, F. J., Machine Company. (See Flosdorf, E. W., and Stokes, Jr., assignors.)
Stokes, Francis J., Jr. (See Flosdorf, E. W., and Stokes.)
Stone, Carl R., assignor to Crane Co., Chicago, Ill. Retaining disk holder. 2,283,772; May 19.
Stowe-Woodward, Inc. (See Shepard, Henry B., assignor.)
Straub, Fritz, Kaiser-Augst, near Basel, P. Pieth, W. Anderau, Basel, and W. Hanhart, Riehen, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Azo dyestuffs and preparing same. 2,283,294; May 19.
Strickler, Walter B., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,283,395; May 19.
Strom, Albert P., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit interrupter. 2,283,656; May 19.
Strom, Ernest, assignor to Vulcan Manufacturing Co., Inc., St. Paul, Minn. Vehicle jack structure. 2,283,588; May 19.
Strombach, Helen M., Newark, N. J. Cover for sewing machines. 2,283,828; May 19.
Stuart, Charles H., Newark, N. J. Agent for accentuating perfumes and food flavors and producing the same. 2,283,589; May 19.
Sturges, Derelle E., Sacramento, Calif. Hydraulically self-operated earth moving scraper. 2,283,470; May 19.
Sturgis, Bernard M., Pitman, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Vulcanization of rubber. 2,283,342; May 19.
Sturgis, Bernard M. (See Neal, A. M., and Sturgis.)
Sturtevant, B. F., Company. (See McDonald, John E., assignor.)
Sturtevant, Paul A., Elmhurst, Ill. Torque wrench. 2,283,707; May 19.
Sullivan Machinery Company. (See Joy, Joseph F., assignor.)
Sundback, Gideon, assignor to Talon, Inc., Meadville, Pa. Multiple operated fastener. 2,283,590; May 19.
Sundstrand, Oscar J., Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Power driven carriage return mechanism. 2,283,401; May 19.
Swaine, James W., Bayside, N. Y., assignor to General Chemical Company, New York, N. Y. Organic contact insecticide and its use. 2,283,471; May 19.
Swinford, Leo, assignor to R. Maury, Richmond, Va., trustee. Tobacco forming machine and guard therefor. 2,283,887; May 19.
Suckfüll, Fritz, Leverkusen-Wiesdorf, and H. Clingestein, Cologne-on-the-Rhine, Germany, assignors to General Aniline & Film Corporation. Diazotizable azodyestuffs. 2,283,829; May 19.
Suda, John S. (See Bowden, J. J., and Suda.)
Talon, Inc. (See Murray, Marjorie E., assignor.)
Talon, Inc. (See Sundback, Gideon, assignor.)
Tartaron, Francis X., and J. B. Duke, Mulberry, Fla., assignors to Phosphate Recovery Corporation, New York, N. Y. Process of purifying glass sands. 2,283,295; May 19.
Taylor, Auburn, Charleston, W. Va., assignor to The Goss Printing Press Company, Chicago, Ill. Inking mechanism. 2,283,830; May 19.
Taylor, Charles H., Springfield, Mass., assignor to The Hoover Company, North Canton, Ohio. Bag pressure indicator for suction cleaners. 2,283,831; May 19.
Taylor, H. P., et al. (See Overbey, Herman T., assignor.)
Teitsma, William, assignor of one-third to H. De Haan, and one-third to Harry Dykstra, Paterson, N. J. Fishing rod and reel. 2,283,773; May 19.
Teleregister Corporation, The. (See Daine, R. L., and May, assignors.)

Temple, Paul C., assignor to A. W. Cash Company, Decatur, Ill. Valve mechanism. 2,283,396; May 19.
Texas Company, The. (See Goldsby, A. R., and Bruner, assignors.)
Thomas, Charles L., assignor to Universal Oil Products Company, Chicago, Ill. Control of endothermic and exothermic catalytic reactions. 2,283,832; May 19.
Thompson, Harry T., Hollywood, Calif. Traffic marker rod. 2,283,515; May 19.
Thompson, Howard A., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling system. 2,283,297; May 19.
Thompson, Marvin R. (See Martin, G. J., and Thompson.)
Thompson, Milton D., Fairhaven, Mass. Feathering-blade propeller. 2,283,774; May 19.
Thompson, Norman J., Wellesley, assignor to Factory Mutual Research Corporation, Boston, Mass. Fire extinguishing method and apparatus. 2,283,775; May 19.
Thompson Products, Inc. (See Burkhardt, Otto M., assignor.)
Thompson Products Incorporated. (See Colwell, A. T., and Engemann, assignors.)
Thompson Products Incorporated. (See Hufferd, George H., assignor.)
Thompson, Roy E., Nyack, N. Y., assignor to Lorica Laboratories, Inc., Jersey City, N. J. Manufacturing thin rubber articles. 2,283,238; May 19.
Thum, Walter A., assignor to Papendick, Inc., St. Louis, Mo. Biscuit machine. 2,283,298; May 19.
Thumim, Carl, Yeadon, Pa., assignor to General Electric Company. Electric circuit breaker. 2,283,657; May 19.
Thurman, Benjamin H., Bronxville, N. Y., assignor to Refining, Inc., Reno, Nev. Making soap. 2,283,776; May 19.
Timken Roller Bearing Company, The. (See Bonte, Frederick R., assignor.)
Tisdale, Norman F., Mount Lebanon, Pa., assignor to Molybdenum Corporation of America, New York, N. Y. Manufacture of steel. 2,283,299; May 19.
Toelke, August F., Velda Village, and P. J. Wenta, Brentwood, assignors to Jackes-Evans Manufacturing Company, St. Louis, Mo. Automatic testing gauge. 2,283,885; May 19.
Topham, Laurence E., Wenham, and E. W. Smith, Beverly, Mass., assignors to United Shoe Machinery Corporation, Borough of Flemington, N. J. Finishing machine. 2,283,239; May 19.
Toth, Louis. (See Peremi, E., and Toth.)
Towne, Charles C., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone coin collector. 2,283,396; May 19.
Trautmann, Herbert L., Venice, Calif., assignor, by mesne assignments, to The B. F. Goodrich Company, New York, N. Y. Apparatus for installing collapsible tubular rivets. 2,283,708; May 19.
Trinkle, Dallas R., Oakland, assignor to Merco-Trinkle Machine Co., San Francisco, Calif. Contouring machine and method. 2,283,240; May 19.
Troxler, Charles G., assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,283,833; May 19.
Tucker, Warren R., Mount Gilead, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del. Valve. 2,283,397; May 19.
Turbo Engineering Corporation. (See Birmann, Rudolph, assignor.)
Tuxhorn, Blaine M., Kansas City, Mo. Apparatus for establishing fish habitats. 2,283,472; May 19.
Tyler, John, L. M. Kells, W. F. Kern, and J. R. Bland, Annapolis, Md. Slide rule. 2,283,473; May 19.
Tyler, Ransom, Greenfield, assignor to The Oilgear Company, Milwaukee, Wis. Hydraulic transmission. 2,283,516; May 19.
Underpinning & Foundation Co. (See Martin, W. S., and Lewers, assignors.)
Underwood Elliott Fisher Company. (See Sundstrand, Oscar J., assignor.)
Underwood Elliott Fisher Company. (See von Hacht, William H., assignor.)
Union Asbestos & Rubber Company. (See O'Connor, Arthur F., assignor.)
Union Asbestos & Rubber Company. (See O'Connor, A. F., and Lundvall, assignors.)
Union Switch & Signal Company, The. (See Laurenson, Robert M., assignor.)
Union Switch & Signal Company, The. (See Thompson, Howard A., assignor.)
United Carbon Company. (See Hanson, H., and Skoog, assignors.)
United Gas Improvement Company, The. (See Soday, Frank J., assignor.)
United Shoe Machinery Corporation. (See Andrews, Irving B., assignor.)
United Shoe Machinery Corporation. (See Cuozzo, Michele, assignor.)
United Shoe Machinery Corporation. (See Dixon, Paul H., assignor.)
United Shoe Machinery Corporation. (See Hamann, William, assignor.)
United Shoe Machinery Corporation. (See Jorgensen, Bernhardt, assignor.)
United Shoe Machinery Corporation. (See Marcy, Richard C., assignor.)
United Shoe Machinery Corporation. (See Topham, L. E., and Smith, assignors.)
United States Bung Manufacturing Company, The. (See Lawton, George W., assignor.)
United States Rubber Company. (See Paul, P. T., and Howland, assignors.)
Universal Oil Products Company. (See Day, R. B., and Kanhofer, assignors.)
Universal Oil Products Company. (See Egloff, Gustav, assignor.)
Universal Oil Products Company. (See Friedman, B. S., and Benedict, assignors.)
Universal Oil Products Company. (See Schaad, Raymond E., assignor.)
Universal Oil Products Company. (See Thomas, Charles L., assignor.)
Van Cott, Charles C., Soleta, Calif., assignor to Collins Radio Company, Cedar Rapids, Iowa. Limiting amplifier. 2,283,241; May 19.
Van Dam, Alexis, and A. Horowitz, Eindhoven, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Hair-cutting device. 2,283,834; May 19.
Van der Walt, Petrus J., Memel, Orange Free State, Union of South Africa. Injection fuel system. 2,283,242; May 19.
Van Deventer, Harry R., New York, N. Y. Electric circuit molding. 2,283,398; May 19.
Van Deventer, Harry R., assignor to Peatrophone Corporation, New York, N. Y. Telephone answering system. 2,283,591; May 19.
Van Ness, David L., Los Angeles, Calif. Match box. 2,283,709; May 19.
Vatet, Oscar, Pleasantville, N. Y. Fastening device. 2,283,243; May 19.
Vereinigte Deutsche Metallwerke Aktiengesellschaft. (See Waibel, Karl, assignor.)
Verney, Stanley S., assignor to Auto Electric Supply Co., San Francisco, Calif. Testing spark coils. 2,283,399; May 19.
Vernon, William F., Newton, Iowa. Advertising string holder. 2,283,474; May 19.
Vickers Incorporated. (See Herman, Kenneth R., assignor.)
Victor Flour Mills, Inc. (See Perrigo, Glenn H., assignor.)
Vincent, Perry F., Hillsdale, Mich. Air shotgun. 2,283,300; May 19.
Visitacion, Aniceto R., New York, N. Y., assignor of one-third to B. J. Chromy, Washington, D. C. Hair curler. 2,283,517; May 19.
Vogel, Max, assignor to Neva-Clog Products, Inc., Bridgeport, Conn. Stapling device. 2,283,873; May 19.
Von Capeller, Rudolf. (See Felix, F., and von Capeller.)
Von Hacht, William H., Bronxville, assignor to Underwood Elliott Fisher Company, New York, N. Y. Record making machine. 2,283,400; May 19.
Vulcan Manufacturing Co. (See Strom, Ernest, assignor.)
Waddell, Dean T., Greenfield, Ohio, assignor to E. J. Brach & Sons, Chicago, Ill. Merchandise display cabinet. 2,283,301; May 19.
Wagner, Frank, Chicago, Ill. Therapeutic apparatus. 2,283,475; May 19.
Waibel, Karl, Frankfort-on-the-Main, assignor to Vereinigte Deutsche Metallwerke Aktiengesellschaft, Frankfort-on-the-Main-Heddernheim, Germany. Electrically operated retractable and extensible telescopic strut. 2,283,476; May 19.
Waldie, William A. (See Drummond, F. E., and Waldie.)
Waldie, William A., assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio. Pigmented oil gel and making. 2,283,518; May 19.
Waldie, William A., assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio. Pigmented fatty acid glyceride gel and making. 2,283,519; May 19.
Waldie, William A., assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio. Pigmented resin gel and making. 2,283,520; May 19.
Walker, Cranford P., San Marino, Calif. Determining location of liquid level in wells. 2,283,477; May 19.
Walker, George H., assignor to Heenan & Froude Limited, Worcester, England. Extraction of air from the circulating water of hydraulic brakes or dynamometers. 2,283,244; May 19.
Ward, Richard D. (See Burnham, Philip W., assignor.)
Warner, Maurice L. (See Hoffeld, M., Forman, and Warner.)
Warner, William R., & Company. (See Martin, G. J., and Thompson, assignors.)
Warren, Arlie D., Muskogee, Okla. Robot for motor vehicles. 2,283,478; May 19.
Waterbury, Grenville F., New York, N. Y. Measured-section rope package. 2,283,710; May 19.
Waterbury Tool Company, The. (See Doe, T. B., and Gilman, assignors.)
Weaver, James W., Canton, assignor to The Hoover Company North Canton, Ohio. Inlet valve for suction cleaner dirt bags. 2,283,835; May 19.
Webb, Jervis B., Company. (See Gaboury, Lucian, assignor.)

Webb, Wells A., Albany, Calif. Food composition. 2,283,302; May 19.
Weinland, Hermon G., Springfield, Ohio, assignor to Norton Company, Worcester, Mass. Abrasive device for cleaning still tubes and the like. 2,283,521; May 19.
Weinland, Hermon G., Springfield, Ohio, assignor to Norton Company, Worcester, Mass. Abrasive device for cleaning still tubes and the like. 2,283,522; May 19.
Welskopf, Edwin C., New York, N. Y. Electrically heated implement. 2,283,343; May 19.
Welch, Alanson U., Jr., Pittsfield, Mass., assignor to General Electric Company. Electrical winding. 2,283,711; May 19.
Welch, Alanson U., Jr., Pittsfield, Mass. Transformer. 2,283,712; May 19.
Welty, Albert B., Moline, Ill., assignor to International Harvester Company. Thresher. 2,283,402; May 19.
Wendling, Fred W., Cleveland, Ohio. Greeting card. 2,283,777; May 19.
Wenta, Peter J. (See Toelke, A. F., and Wenta.)
Westcott, Ellsworth J., and J. C. Hayes, Jr., assignors to Freyn Engineering Company, Chicago, Ill. Combustion means. 2,283,658; May 19.
Westenhaver, John B., Wheeling, W. Va. Parachute. 2,283,479; May 19.
Western Cartridge Company. (See Kopp, W. R., and Emerson, assignors.)
Western Cartridge Company. (See Mitchell, E. G., Schaper, and Hartshorne, assignors.)
Western Union Telegraph Company, The. (See Kline, Bernard L., assignor.)
Westinghouse Air Brake Company. (See Ludwig, Albert J., assignor.)
Westinghouse Air Brake Company, The. (See McCune, Joseph C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Mouromtseff, I. E., and Dinnick, assignors.)
Westinghouse Electric & Manufacturing Company. (See Price, Towson, assignor.)
Westinghouse Electric & Manufacturing Company. (See Strom, Albert P., assignor.)
Weston Electrical Instrument Corporation. (See Miller, John H., assignor.)
White, Gerald. (See Roesch, G. R., and White.)
White, Harry B., Canton, assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,283,836; May 19.
White, Joe, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Horn control system. 2,283,659; May 19.
White, Richard J., assignor to American Can Company, New York, N. Y. Container. 2,283,245; May 19.
White, Sidney Y., Wilmette, Ill. Scanning radio receiver. 2,283,523; May 19.
White, Sidney Y., Wilmette, Ill. Adjustable antenna device. 2,283,524; May 19.
Whitfield, Frank G. S., and C. J. Golledge, London, England. Filing device for photographic negatives and the like. 2,283,837; May 19.
Whitlock, Stewart B., Rising Sun, Ind. Oil level regulator. 2,283,303; May 19.
Whitney Metal Tool Company. (See Jensen, John, assignor.)
Widmann, David G., New York, N. Y. Hat forming and preserving device. 2,283,660; May 19.
Wiggins, Edward J., assignor, by mesne assignments, to General Transformer Corporation, Chicago, Ill. Electric scissors. 2,283,403; May 19.
Wilhide, Glenn C., Towson, Md., assignor to The Black and Decker Manufacturing Company. Electric tool. 2,283,778; May 19.
Wilkerson, Clarence B., assignor, by mesne assignments, to Davis, Lindsey, Smith & Shouts, Chicago, Ill. Decalcomania. 2,283,480; May 19.
Williams, Calvin C., assignor to The Brown Instrument Company, Philadelphia, Pa. Latch mechanism. 2,283,304; May 19.
Williams, Charles H., assignor to W. P. Morton, Indianapolis, Ind. Apparatus for cutting pastry strips. 2,283,838; May 19.
Williamson, James L., assignor to The Fellows Gear Shaper Company, Springfield, Vt. Differential driving gearing. 2,283,661; May 19.
Willis, Maurice B., Haddonfield, N. J., assignor of one-half to C. C. Morrison, Philadelphia, Pa. Printing machine. 2,283,592; May 19.
Wilmotte, Raymond M., Washington, D. C. Antenna. 2,283,617; May 19.
Wilmotte, Raymond M., Washington, D. C. Radio antenna system. 2,283,618; May 19.
Wilmotte, Raymond M., Washington, D. C. Radio antenna system. 2,283,619; May 19.
Winograd, Harold, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electric timing system. 2,283,344; May 19.
Winston, Sue. (See Manning, John R., assignor.)
Winter, John G., Washington, D. C. Weighted casting float. 2,283,779; May 19.
Winter, Leon A. (See Buell, W. E., and Winter.)
Wise, Edmund M., Westfield, and R. H. Schaefer, Red Bank, N. J., assignors to The International Nickel Company, Inc., New York, N. Y. Cast valve. 2,283,246; May 19.
Witham, Raymond L., Mountain Lakes, N. J., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Salinity indicator and alarm. 2,283,525; May 19.
Wolf, Austin M., Plainfield, N. J. Vehicle braking system. 2,283,713; May 19.
Wolff, Oscar M., Chicago, Ill. Cup assembly for pitting machines. 2,283,714; May 19.
Womble, George, Portsmouth, Va. Adjusting cutter assembly. 2,283,481; May 19.
Wonder Weave, Incorporated. (See Moore, Everett B., assignor.)
Wood, Raymond A., Santa Ana, Calif., assignor to Radio Corporation of America. Gain controlled telegraph receiver. 2,283,404; May 19.
Wright, Frank L., assignor to Norma-Hoffman Bearings Corporation, Stamford, Conn. Rubber insulated bearing unit. 2,283,839; May 19.
Wright, Theodore M., North Tonawanda, N. Y., assignor to The Rudolph Wurlitzer Company, Cincinnati, Ohio. Automatic phonograph. 2,283,840; May 19.
Wright, Theodore M., North Tonawanda, N. Y., assignor to The Rudolph Wurlitzer Company, Chicago, Ill. Clutch control mechanism. 2,283,841; May 19.
Wurlitzer, Rudolph, Company, The. (See Wright, Theodore M., assignor.)
Yanes, Francisco G., New York, N. Y. Method and products of tone-and-color synthesis in color reproduction. 2,283,715; May 19.
Yingling, Frank B., Hamilton, Ohio. Hydraulic coupling. 2,283,842; May 19.
Youker, Malcolm P., assignor to Phillips Petroleum Company, Bartlesville, Okla. Hydrocarbon gas conversion process. 2,283,305; May 19.
Young, Lloyd W., Scotch Plains, N. J., assignor to Oxweld Acetylene Company. Blowpipe machine. 2,283,345; May 19.
Young, Lloyd W. (See Buchnam, J. H., and Young.)
Young, Lloyd W., Scotch Plains, N. J., assignor to Oxweld Acetylene Company. Portable tool carriage. 2,283,347; May 19.
Zalimeni, Michael A., Ashtabula, Ohio. Hitch mechanism. 2,283,716; May 19.
Zamora, Vincente M., and R. P. Roces, Manila, P. I. Pneumatic tire. 2,283,843; May 19.
Zimmerman, Herman W., Highland Park, assignor, by mesne assignments, to Automotive Maintenance Machinery Co., North Chicago, Ill. Torque measuring wrench. 2,283,888; May 19.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 19TH DAY OF MAY, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Coping, Flanged wall. J. P. Duffy. Re. 22,098; May 19.

Power transmission. F. T. Harrington and R. E. Esch. Re. 22,099; May 19.

LIST OF PLANT INVENTIONS

Plant, Rose. R. L. Byrum. 517; May 19.

Rose. F. H. Howard. 516; May 19.

LIST OF DESIGN INVENTIONS

Airplane. A. J. Klose. 132,461; May 19.
Badge. J. T. Robertson. 132,466; May 19.
Badge or the like. G. W. Naylor. 132,470; May 19.
Binocular or the like. W. Bausch and J. V. Vevirit. 132,474; May 19.
Bunting, Knapsack. M. L. Murphy. 132,469; May 19.
Cap. P. M. Maxwell and W. J. Russy. 132,494; May 19.
Case, Cosmetic. J. O. Reinecke. 132,468; May 19.
Case, Self-service display. J. S. Hill. 132,475; May 19.
Clip, Spring. S. Rosenberg. 132,430; May 19.
Confection. N. S. Sabatino. 132,467; May 19.
Device for brewing beverages. C. Karstadt. 132,428; May 19.
Dress. L. Adler. 132,483; May 19.
Dress. B. Cashin. 132,486; May 19.
Dress. B. Green. 132,489–90; May 19.
Dress. A. Ruchman. 132,479; May 19.
Dress. F. T. Stix. 132,498; May 19.
Dress. M. E. Tetreault. 132,499; May 19.
Dress. J. Walker. 132,500–2; May 19.
Dress. S. Zahn. 132,480–2; May 19.
Dress. S. Zahn. 132,505–6; May 19.
Dress ensemble. B. Cashin. 132,485; May 19.
Dress ensemble. W. Maidman. 132,493; May 19.
Dress ensemble. J. Moskowitz. 132,497; May 19.
Eraser, Draftsmen's. B. W. Hanle. 132,420; May 19.
Font of type. R. E. Smith. 132,422; May 19.
Glove. E. R. Schraps. 132,472; May 19.
Grip for hammer handles and like articles. H. Harvey. 132,465; May 19.
Heat exchange unit. F. L. Anderson and J. M. Baeza. 132,423–4; May 19.
Knife and butter pick or similar article, Combined butter. E. Reynolds. 132,462; May 19.
Knife, Brush. R. D. Brown. 132,419; May 19.
Knob for stoves or the like. E. D. Pellegrin. 132,433; May 19.
Lace. J. Wiener. 132,503; May 19.
Lace. I. Zendman, Jr. 132,507–8; May 19.
Leather or similar article. L. I. Friedman. 132,478; May 19.
Mixer, Truck type concrete. H. C. Peters. 132,471; May 19.
Necktie. A. J. McElfresh. 132,429; May 19.
Orthoptic instrument or article of similar nature. Le R. Wottring. 132,459; May 19.
Pan, Dust. E. M. George. 132,426; May 19.
Pin or similar article. F. Nathan. 132,434–40; May 19.
Pin or similar article. F. Nathan. 132,443–57; May 19.
Plate, Molded fiber combination. C. J. Chaplin. 132,431; May 19.
Ring, Finger. M. L. Stoddard. 132,477; May 19.
Ring, Rosary decade. C. H. Damrell. 132,460; May 19.
Scarf or analogous article. D. Friedman. 132,487; May 19.
Shield, Bomb. M. J. Leuer. 132,468; May 19.
Shield, Eye. H. E. Montgomery. 132,442; May 19.
Skirt and jacket ensemble. C. S. Golden. 132,488; May 19.
Spoon or similar article. M. E. Graves. 132,441; May 19.
Structure, Portable. L. Edelman. 132,464; May 19.
Support and standard for chick fount base and receptacle, Combination. W. L. Knapp. 132,421; May 19.
Support, Combined lathe and stock. W. K. Millholland. 132,432; May 19.
Table, Over-bed. W. A. Hillenbrand. 132,427; May 19.
Tablecloth, Lace. H. Hooven. 132,491; May 19.
Tablecloth, Lace. W. Wolf. 132,504; May 19.
Table, Lace. W. Wolf. 132,504; May 19.
Textile fabric. W. Leavy, Jr. 132,492; May 19.
Textile fabric or similar article. L. Brauné. 132,484; May 19.
Tool, Compound. S. Damoff. 132,463; May 19.
Toy animal. M. Szrajer. 132,473; May 19.
Tray or similar article, Food. D. H. Erickson. 132,425; May 19.
Utility unit, Combination kitchen and bathroom. H. A. Martin. 132,476; May 19.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 19TH DAY OF MAY, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive device for cleaning still tubes and the like. H. G. Weinland. 2,283,521–2; May 19.
Accelerometer. J. A. Buchanan. 2,283,180; May 19.
Acid glyceride gel and making, Pigmented fatty. W. A. Waldle. 2,283,519; May 19.
Adapter for centrifugal casting molds. S. L. Conner. 2,283,187; May 19.
Adhesive composition. H. Klemm. 2,283,740; May 19.
Advertising string holder. W. F. Vernon. 2,283,474; May 19.
Afterbody of vessels. F. H. Seldén. 2,283,291; May 19.
Agents for accentuating perfumes and food flavors and producing the same. C. H. Stuart. 2,283,589; May 19.
Air conditioning system. A. B. Newton. 2,283,386; May 19.
Air from the circulating water of hydraulic brakes or dynamometers, Extraction of. G. H. Walker. 2,283,244; May 19.
Aircraft. F. Nallinger. 2,283,223; May 19.
Alarm, Safety. R. Dalzell. 2,283,354; May 19.
Alternating-current conductor, Hot-galvanized carbon-steel. F. F. Fowle and F. M. Crapo. 2,283,868; May 19.
Alumina, Producing. H. L. Coles. 2,283,849; May 19.
Amplifier, Limiting. C. C. Van Cott. 2,283,241; May 19.
Amusement device. H. Singer. 2,283,583; May 19.
Anchor davit. R. I. Holgerson. 2,283,500; May 19.
Antenna. R. M. Wilmotte. 2,283,617; May 19.
Antenna Device, Adjustable. S. Y. White. 2,283,524; May 19.
Antioxidant. P. T. Paul and L. H. Howland. 2,283,388; May 19.
Apparatus for annealing wire. J. K. Delano. 2,283,798; May 19.
Apparatus for beveling the heel portions of shoe insoles. W. R. Gordon. 2,283,550; May 19.
Apparatus for burning fuel. F. D. Hoffman. 2,283,631; May 19.
Apparatus for controlling fuel supply to furnace and the like. D. W. Fehrenbach. 2,283,496; May 19.
Apparatus for cutting pastry strips. C. H. Williams. 2,283,838; May 19.
Apparatus for cutting valve seats. J. Erhardt. 2,283,323; May 19.
Apparatus for establishing fish habitats. B. M. Tuxhorn. 2,283,472; May 19.
Apparatus for forming metal articles. W. W. Criley. 2,283,416; May 19.
Apparatus for installing rivets. C. C. Cadden. 2,283,665; May 19.
Apparatus for making screen cloth. R. D. Heller. 2,283,879–82; May 19.
Apparatus for measuring the density of gases. W. Mikelson. 2,283,750; May 19.
Apparatus for operating doors. S. S. Roby. 2,283,577; May 19.
Apparatus for planing coated strip. L. Sandler. 2,283,579; May 19.
Apparatus for producing multiply glass sheet glazing units. C. D. Haven. 2,283,253; May 19.
Apparatus for projecting images of transparent or opaque objects and script on a screen. J. M. Kreinin. 2,283,268; May 19.
Apparatus for the manufacture of organic acid anhydrides. D. C. Hull and C. A. Marshall. 2,283,209; May 19.
Apparatus for treating fruit. A. F. Kalmar. 2,283,372; May 19.
Apparatus for use in the cutting of laminated safety glass. L. F. Gunther. 2,283,251; May 19.
Apparatus for washing, extracting and drying. E. J. Perry. 2,283,612; May 19.
Appliance for oral and dental use, Conditioning. A. W. McCune. 2,283,686; May 19.
Applicator, Enamel. H. Arber. 2,283,621; May 19.
Armor. A. Bak. 2,283,484; May 19.
Articles, Finishing. F. E. Drummond and W. A. Waldie. 2,283,420; May 19.
Articles from organic plastic material. E. T. Ferngren. 2,283,751; May 19.
Ash relief door. F. Kalmbach, Jr. 2,283,811; May 19.
Associating mechanism for printing machines. H. P. Claudberg. 2,283,597; May 19.
Athletic protector. W. B. Matthews. 2,283,684; May 19.
Atomizer. J. B. Schmitt and F. Custer. 2,283,341; May 19.
Attachment for grain binders, Pickup divider. F. J. Betz and M. A. Betz. 2,283,528; May 19.
Attachment for telephones, Base. W. K. Munson. 2,283,690; May 19.
Automobile body trimming device. G. G. Barr. 2,283,783; May 19.
Azo compounds and material colored therewith. J. G. McNally and J. B. Dickey. 2,283,220; May 19.
Bag pressure indicator for suction cleaners. C. H. Taylor. 2,283,831; May 19.
Balls, Marking variegated. C. W. Brown. 2,283,845; May 19.
Banking means for airplane gyro pilots, Automatic. W. A. Matthews. 2,283,754; May 19.
Bar: *See*—
Boring bar.
Claw bar.
Battery, Dry. F. MacCallum. 2,283,379; May 19.
Battery retainer for electric hand lanterns. W. M. Moxley. 2,283,384; May 19.
Beacon, Localizer. A. G. Kandoian. 2,283,677; May 19.
Beam locking device. D. P. Jacobus. 2,283,634; May 19.
Bean washer. J. H. Cox. 2,283,488; May 19.
Bearing. W. E. McCullough. 2,283,217; May 19.
Bearing. W. E. McCullough. 2,283,219; May 19.
Bearing. E. F. Norelius. 2,283,871; May 19.
Bearing for water meters. R. S. Bassett. 2,283,408; May 19.
Bearing unit, Rubber insulated. R. I. Wright. 2,283,839; May 19.
Bearings, Manufacturing. W. E. McCullough. 2,283,218; May 19.
Beverages, System for cooling. A. L. Reiser. 2,283,818; May 19.
Biologicals, pharmaceuticals and the like, Packaging and preserving dried. E. W. Flosdorf and F. J. Stokes, Jr. 2,283,867; May 19.
Biscuit machine. W. A. Thum. 2,283,298; May 19.
Bit: *See*—
Rock bit.
Blackboard construction. C. D. Lowry. 2,283,272; May 19.
Blowpipe machine. J. H. Bucknam and L. W. Young. 2,283,346; May 19.
Blowpipe machine. L. W. Young. 2,283,345; May 19.
Boat trailing equipment. R. H. Samdahl. 2,283,648; May 19.
Boilers, Reconditioning. F. W. Miller. 2,283,451; May 19.
Boring apparatus. F. J. Daley. 2,283,491; May 19.
Boring bar. T. W. Fields and H. N. Oliver. 2,283,497; May 19.
Boring mechanism. H. B. Shepard. 2,283,469; May 19.
Bowling pin lifting mechanism. G. J. Schmidt. 2,283,613; May 19.
Box: *See*—
Match box.
Bracket construction for plumbing fixtures. M. A. Crozier. 2,283,794; May 19.
Brake: *See*—
Press brake.
Brake. C. W. Sinclair. 2,283,654; May 19.
Brake arrangement. R. G. Aurien. 2,283,864; May 19.
Brake control means. J. C. McCune. 2,283,608; May 19.
Brake gear safety support. E. G. Busse. 2,283,846; May 19.
Brake head lug and socket wear element. M. S. Johnson. 2,283,637; May 19.
Braking arrangement for the wheels of aircraft. J. Mercier. 2,283,687; May 19.
Broiler. W. H. Frick. 2,283,853; May 19.
Bromine process for gold ores. C. G. Fink and G. L. Putnam. 2,283,198; May 19.
Brush. S. Rubin. 2,283,765; May 19.
Brush assembly. H. A. Steiert. 2,283,293; May 19.
Brush, Hydro dental. J. L. Ckola. 2,283,314; May 19.
Bulkhead for refrigerator cars, Convertible. A. F. O'Connor and J. S. Lundvall. 2,283,756; May 19.
Bumper jack, Hydraulic. C. M. Akins. 2,283,593; May 19.
Bung forming apparatus. G. W. Lawton. 2,283,331; May 19.
Burner: *See*—
Fuel burner.
Oil burner.
Cabinet: *See*—
Merchandise display cabinet.
Cable connector. E. G. Samuelson. 2,283,649; May 19.
Cage, Antiholdup cashier's. B. L. Dorsey. 2,283,542; May 19.
Cake, Packaged. J. MacManus. 2,283,380; May 19.

Calcining precipitated calcium carbonate and recovering CO_2 gas therefrom, Process for. R. D. Pike. 2,283,758; May 19.
Calculator. F. B. Lautzenhiser and S. Colacuori. 2,283,375; May 19.
Calculator, Percentage. S. Deutch. 2,283,191; May 19.
Calendar. J. J. Sow. 2,283,702; May 19.
Camera, Bombing. A. Briechle, E. T. Hurley, and G. E. Merritt. 2,283,788; May 19.
Can closing machine. W. K. Cabot. 2,283,181; May 19.
Cap or closure member for valve stems. J. C. Crowley. 2,283,490; May 19.
Capillary active compound and producing the same. W. Hentrich, C. A. Lainau, and W. J. Kaiser. 2,283,438; May 19.
Cape, Making receptacle closure. J. A. Johnson. 2,283,503; May 19.
Car construction, Refrigeration. A. F. O'Connor. 2,283,508; May 19.
Carbon black, Agglomerating. H. Hanson and R. W. Skoog. 2,283,364; May 19.
Carbureting apparatus. L. E. Perrine. 2,283,694; May 19.
Card, Greeting. F. W. Wendling. 2,283,777; May 19.
Card holder. R. W. Fischer. 2,283,546; May 19.
Cargo stowing apparatus. J. Bean and E. W. Narramore. 2,283,309; May 19.
Case for clinical thermometers. F. S. Dickinson. 2,283,599; May 19.
Cast valve. E. M. Wise and R. H. Schaefer. 2,283,246; May 19.
Catalytic converter. E. J. Houdry and T. B. Prickett. 2,283,208; May 19.
Catalytic process. K. H. Hachmuth. 2,283,499; May 19.
Cathode for discharge tubes. E. F. Lowry. 2,283,216; May 19.
Cathode structure. I. Mouromtseff and G. M. Dinnick. 2,283,896; May 19.
Cell case machine. C. J. Delegard. 2,283,492; May 19.
Cellulosic solutions, Coagulating. E. F. Izard. 2,283,809; May 19.
Centering tool. I. Hakki. 2,283,806; May 19.
Centrifugal clutch. T. L. Fawick. 2,283,325; May 19.
Centrifugal concrete pipe molding machine. W. R. Hume. 2,283,735; May 19.
Centrifugal separator. J. S. Pecker. 2,283,457; May 19.
Chemical process. E. L. Martin. 2,283,643; May 19.
Chemotherapeutical substances. E. Bergmann, F. Bergmann, and L. Haskelberg. 2,283,718; May 19.
Cigarette machine. E. D. Smith. 2,283,394; May 19.
Cigarette package. H. M. Hoenig. 2,283,856; May 19.
Circuit: *See*—
Converter circuit. Keying circuit.
Generator circuit. Locking circuit.
Circuit breaker. J. G. Jackson. 2,283,736; May 19.
Circuit breaker. H. V. Nye. 2,283,874; May 19.
Circuit breaker, Automatically reclosing. G. I. Holmes. 2,283,368; May 19.
Circuit breaker, Electric. C. Thumim. 2,283,657; May 19.
Circuit interrupter. A. P. Strom. 2,283,656; May 19.
Circuit interrupting element. S. R. Smith. 2,283,701; May 19.
Clamp: *See*—
Soil pipe hub clamp.
Clamp or similar device, Can. A. H. Kreiling. 2,283,813; May 19.
Clamping ring. H. Phillips. 2,283,339; May 19.
Clasp. C. A. Goodwin. 2,283,328; May 19.
Clasp or button for envelopes, String. H. Levine. 2,283,815; May 19.
Claw bar. J. T. Lane. 2,283,215; May 19.
Cleaner: *See*—
Suction cleaner.
Cleaning device, Mechanized. J. B. Richards. 2,283,229; May 19.
Clearance regulator, Mechanical. O. M. Burkhardt. 2,283,536; May 19.
Clip assembly for wall structures. H. H. Burson. 2,283,167; May 19.
Closure construction for sheer garments, Slide fastened. M. E. Murray. 2,283,642; May 19.
Clothes drier. W. K. Harris. 2,283,205; May 19.
Clothesline support. C. I. Robinson. 2,283,576; May 19.
Clutch: *See*—
Centrifugal clutch.
Clutch control mechanism. T. M. Wright. 2,283,841; May 19.
Clutch and mechanism for effecting axial movement of a driven member. E. F. Kohl. 2,283,267; May 19.
Clutch control device. H. E. Clarke. 2,283,423; May 19.
Coating for electric insulators, High resistance conducting. G. L. McCreery and V. E. Campbell. 2,283,685; May 19.
Coil, Ignition. H. L. Hartzell and D. L. Hittle. 2,283,733; May 19.
Coil, Lock switch. H. L. Hartzell and D. L. Hittle. 2,283,732; May 19.
Colloidal matters, Molding. P. L. Mercier and P. E. Leroy. 2,283,688; May 19.
Coils, Testing spark. S. S. Verney. 2,283,390; May 19.
Color-photography material. P. Goldfinger. 2,283,361; May 19.
Combustion means. E. J. Westcott and J. C. Hayes, Jr. 2,283,668; May 19.
Commutator. W. A. Humphrey. 2,283,808; May 19.
Compensating means for pressure responsive devices. J. E. Bevins. 2,283,311; May 19.
Composite materials for contacting operations, Preparing. J. R. Bates and G. R. Bond, Jr. 2,283,174; May 19.
Composition. R. Neiman. 2,283,611; May 19.
Composition for bleaching hair. N. Baum. 2,283,350; May 19.
Compositions for treating leather and preparing the same. G. D. Davis and R. E. Porter. 2,283,540; May 19.
Connector: *See*—
Cable connector. Multiple plug connector.
Electrical connector.
Connector. K. C. Bugg. 2,283,663; May 19.
Container. R. J. White. 2,283,245; May 19.
Container and applicator, Combined tubular. R. C. Rupp. 2,283,463; May 19.
Continuous filter. F. J. Evans. 2,283,495; May 19.
Contouring machine and method. D. R. Trinkle. 2,283,240; May 19.
Contours from stereoscopic photographs, Method and means for defining. Harry B. Porter. 2,283,226; May 19.
Control system. F. Nallinger. 2,283,644; May 19.
Control system. T. C. Lennox. 2,283,741; May 19.
Control system, Excitation. H. Bany. 2,283,662; May 19.
Control system, Overdrive. E. M. Claytor. 2,283,623; May 19.
Control system, Semiautomatic. J. A. Hall and A. E. Melhose. 2,283,203; May 19.
Control valve. M. E. Johnson. 2,283,810; May 19.
Converter circuit, Thermal. J. H. Miller. 2,283,566; May 19.
Cooker, Electric. W. G. Carl. 2,283,182; May 19.
Cooking machine. H. M. Husk. 2,283,256; May 19.
Cooling and dehumidifying apparatus. G. R. Siefken. 2,283,391; May 19.
Cot. F. R. Galbraith. 2,283,549; May 19.
Coupler operating mechanism for dump cars. R. C. Goss. 2,283,731; May 19.
Coupling: *See*—
Friction coupling. Hydraulic coupling.
Cover. D. K. Copell. 2,283,624; May 19.
Cover for sewing machines. H. M. Strombach. 2,283,828; May 19.
Crane, Wrecking. C. A. Klein. 2,289,443; May 19.
Crib, Drop-side. L. Peltier. 2,283,570; May 19.
Cup assembly for pitting machines. O. M. Wolff. 2,283,714; May 19.
Cup, Golf ring. J. K. Richie. 2,283,462; May 19.
Curler, Hair. A. R. Visitacion. 2,283,517; May 19.
Curler, Hair. J. K. Crotts. 2,283,426; May 19.
Cutter: *See*—
Pipe cutter. Weed cutter.
Cutter assembly, Adjusting. G. Womble. 2,283,481; May 19.
Cylinder liner. W. F. Cumiskey. 2,283,317; May 19.
Cylinder liner sleeve. A. T. Colwell and H. H. Engemann. 2,283,424; May 19.
Decalcomania. C. B. Wilkerson. 2,283,480; May 19.
Detergent. L. H. Flett. 2,283,199; May 19.
Detoxicant. G. J. Martin and M. R. Thompson. 2,283,817; May 19.
Diazotizable azodyestuffs. F. Suckfüll and H. Clingestein. 2,283,829; May 19.
Die set for making metal-edge filters. P. Heftler. 2,283,629; May 19.
Differential driving gearing. J. L. Williamson. 2,283,661; May 19.
Dimmer switch. R. H. Hill. 2,283,630; May 19.
Disk, Phonograph. R. S. Dech. 2,283,797; May 19.
Disks from webs, Severing. J. A. Johnson. 2,283,504; May 19.
Dispenser: *See*—
Salt dispenser.
Dispenser. C. M. Parrott and R. B. Barrett. 2,283,757; May 19.
Dispenser of solution and application thereof. E. T. Ahera. 2,283,780; May 19.
Dispensing device, Liquid. C. Cooper and C. W. Sherman. 2,283,414; May 19.
Display holder for bakery goods. E. O. Steudel. 2,283,704; May 19.
Display rack. J. Haslum. 2,283,890; May 19.
Distributor adjusting tool. J. S. Buckwalter. 2,283,789; May 19.
Drilling machine. M. Pégard. 2,283,338; May 19.
Drilling rig. G. J. C. Falling. 2,283,866; May 19.
Drive, Hydro mechanical transmission. C. W. Berry. 2,283,486; May 19.
Dusting machine. A. W. Gustafson. 2,283,805; May 19.
Dyestuffs and preparing same, Azo. F. K.-A. Straub, P. Pieth, W. Anderau and W. Hanhart. 2,283,294; May 19.
Dyestuffs, Manufacture of new azo. W. H. Cliffe. 2,283,667; May 19.
Dyestuffs, Yellow azo. F. Felix and W. Muller. 2,283,326; May 19.
Dental articulator. D. Neustadt. 2,283,385; May 19.

Device for cutting and stacking thin sheet material. R. F. Holtz. 2,283,255; May 19.
Device for fire-doors, Controlling. P. W. Burnham. 2,283,537; May 19.
Diagnostic composition and method. J. Kamlet. 2,283,262; May 19.
Diamond-holding tool. J. Dinhofer. 2,283,320; May 19.
Diaper construction. S. Brown. 2,283,178; May 19.
Diaphragm valve. O. Jacobsen. 2,283,360; May 19.
Diaphragm, Accumulator. K. R. Herman. 2,283,439; May 19.
Diesel engine starter. R. A. Coffman. 2,283,185; May 19.
Dispenser for liquid soap and the like. A. L. Bobrick. 2,283,529; May 19.
Dispensing device, Liquid. C. Cooper and C. W. Sherman. 2,283,414; May 19.
Display device. R. L. Daine and H. F. May. 2,283,418; May 19.
Display device. E. P. Edwards. 2,283,194; May 19.
Display receptacle, Collapsible. C. J. Bacon. 2,283,406; May 19.
Door: *See*—
Ash relief door.
Door cleaning means, Coke oven. C. Otto. 2,283,282; May 19.
Door locking mechanism. W. M. Barbour. 2,283,596; May 19.
Douche apparatus. D. M. Chapin. 2,283,848; May 19.
Drain, Roof. E. W. N. Boosey. 2,283,160; May 19.
Drawing. W. Ernst. 2,283,356; May 19.
Drier: *See*—
Clothes drier. Grain drier.
Drill: *See*—
Power drill.
Drill bit wrench. G. H. Coplen. 2,283,625; May 19.
Drilling mud. E. A. Means. 2,283,564; May 19.
Dumping truck lift. W. A. Kostick. 2,283,857; May 19.
Duplex signaling system. G. A. Pullis. 2,283,760; May 19.
Dust collector. G. W. Kuerner. 2,283,858; May 19.
Dyestuffs, Azo. F. Felix and R. von Capelier. 2,283,327; May 19.
Dyestuffs, Yellow azo. O. Kaiser. 2,283,261; May 19.
Earth sampling equipment. C. M. Sanborn. 2,283,650; May 19.
Efflorescence of mortar in masonry, Waterproofing and preventing. J. B. Pierce, Jr. 2,283,573; May 19.
Egg holding device. L. A. Seldomridge. 2,283,390; May 19.
Electric circuit breaker. W. E. Paul. 2,283,693; May 19.
Electric circuit breaker. P. Bartlett. 2,283,717; May 19.
Electric circuit molding. H. R. Van Deventer. 2,283,398; May 19.
Electric discharge device. A. J. Kling. 2,283,639; May 19.
Electric discharge lamp. J. L. Cox. 2,283,189; May 19.
Electric furnace. A. E. A. S. Cornelius. 2,283,188; May 19.
Electric lamp and terminal device. T. Price. 2,283,287; May 19.
Electric motor apparatus, Vibratory. J. A. Hanley. 2,283,551–2; May 19.
Electric plug. G. Eaton. 2,283,544; May 19.
Electric switch. W. A. Ray. 2,283,340; May 19.
Electric switch. J. G. Peterson. 2,283,509; May 19.
Electric switch construction. M. G. Dahl. 2,283,795; May 19.
Electric timing system. H. Winograd. 2,283,344; May 19.
Electric tool. G. C. Wilhide. 2,283,778; May 19.
Electric valve circuits. M. E. Bivens. 2,283,719; May 19.
Electric welding mechanism. J. D. Soehner. 2,283,826; May 19.
Electrical connector. C. E. Gilbert. 2,283,889; May 19.
Electrical distribution system. K. Schmitt. 2,283,231; May 19.
Electrical plug and contactor therefor. W. P. Herman. 2,283,807; May 19.
Electrical regulating system. G. H. Jump. 2,283,738; May 19.
Electrical switch. W. O. Bundy, Jr., C. S. Lewis, and I. Erlich. 2,283,534; May 19.
Electrical winding. A. U. Welch, Jr. 2,283,711; May 19.
Electrically heated implement. E. C. Weiskopf. 2,283,343; May 19.
Electrically heated receptacle. M. Hoffeld, S. Forman, and M. L. Warner. 2,283,734; May 19.
Electrically operated retractable and extensible telescopic strut. K. Waibel. 2,283,476; May 19.
Electrode arrangement for glass furnaces or the like. J. Ferguson. 2,283,800; May 19.
Electrode holder. P. Bourque. 2,283,162; May 19.
Electroresponsive device. D. U. Prince. 2,283,697; May 19.
Elements for brake hanger bracket, Wear. M. S. Johnson. 2,283,636; May 19.
Emulsions, Utilizing. M. W. Ditto. 2,283,192; May 19.
Endothermic and exothermic catalytic reactions, Control of. C. L. Thomas. 2,283,832; May 19.
Energy distribution system, High frequency. A. Alford. 2,283,620; May 19.
Engine: *See*—
Internal combustion engine. Rocket engine.
Twin bank engine.
Escutcheon for auto doors. H. D. Geyer. 2,283,674; May 19.
Ester-like condensation products and preparing them. J. Rosenbach and G. Balle. 2,283,764; May 19.
Extrusion machine cylinder or container. P. L. Clark. 2,283,791; May 19.
Eye reaction testing. L. G. Schwansel. 2,283,769; May 19.
Fabric: *See*—
Launderable multi-ply fabric.
Fabric making machine. C. H. Gingher. 2,283,802; May 19.
Fan. J. E. McDonald. 2,283,609; May 19.
Fastening device. O. Vatet. 2,283,243; May 19.
Feeding apparatus. B. C. Skinner and J. J. R. Bristow. 2,283,615; May 19.
Fastener: *See*—
Multiple operated fastener.
Feeding device. J. Peters. 2,283,227; May 19.
Felt, Preparation of. B. Berkman. 2,283,409; May 19.
Fibers, Spinning. F. C. Atwood. 2,283,169; May 19.
Filing device for photographic negatives and the like. F. G. S. Whitfield and C. J. Golledge. 2,283,837; May 19.
Filling device for shells. G. D. Rogers. 2,283,230; May 19.
Film, Reinforced motion picture. L. J. Guyard. 2,283,202; May 19.
Filter: *See*—
Continuous filter.
Filters, Producing oligodynamic. E. M. Conconi. 2,283,883; May 19.
Finishg machine. W. Hamann. 2,283,204; May 19.
Finishing machine. L. E. Topham and E. W. Smith. 2,283,239; May 19.
Fire extinguisher. L. J. Darms. 2,283,796; May 19.
Fire extinguishing method and apparatus. N. J. Thompson. 2,283,775; May 19.
Fireplace. W. A. Disotell. 2,283,427; May 19.
Fireplace construction. D. L. Cage. 2,283,790; May 19.
Fishing appliance. L. W. Shafer. 2,283,233; May 19.
Flash removing machine. H. E. Morton. 2,283,507; May 19.
Flashlight. P. E. Frettem. 2,283,430; May 19.
Flight indicator. C. J. Crane. 2,283,190; May 19.
Float, Weighting casting. J. G. Winter. 2,283,779; May 19.
Flour, Making. G. H. Perrigo. 2,283,571; May 19.
Fluid mechanism, Elastic. R. Birmann. 2,283,176; May 19.
Fluid pressure control system. E. G. Loomis. 2,283,271; May 19.
Fluids, Distribution of. E. Kinsella. 2,283,266; May 19.
Food composition. W. A. Webb. 2,283,302; May 19.
Food product and producing the same, Vitamin. A. E. Briod and B. A. Dombrow. 2,283,531; May 19.
Foot arch support. R. Lenthall. 2,283,446; May 19.
Foot operated press. C. A. Fischer. 2,283,548; May 19.
Foot operated press. F. A. Heidenfelder. 2,283,553; May 19.
Foot rest. A. C. Dodson. 2,283,600; May 19.
Frame: *See*—
Goggle frame.
Freezer, Ice cream. A. H. Bolleau. 2,283,487; May 19.
Frequency system, Ultra-high. R. S. Ohl. 2,283,568; May 19.
Friction coupling. P. M. Freer. 2,283,673; May 19.
Fruit separator, Flotation. R. Sias. 2,283,512; May 19.
Fruits, Treating citrus. B. N. Savage. 2,283,290; May 19.
Fuel burner, Liquid. B. G. Lange. 2,283,445; May 19.
Fuel from aircraft, Dumping. H. R. Hughes, S. A. Bell, and G. E. Odekirk. 2,283,502; May 19.
Fuel-injection nozzle valve. G. Eichelberg. 2,283,725; May 19.
Fuel system, Injection. P. J. van der Walt. 2,283,242; May 19.
Furnace: *See*—
Electric furnace.
Furnace and operating same, Shaft. H. A. Brassert and E. L. Ives. 2,283,163; May 19.
Furniture, Article of. L. Mies. 2,283,755; May 19.
Game, Baseball. J. S. Rogers. 2,283,578; May 19.
Garlic separator. C. Meneux, S. G. Bourdin, and L. Chaussé. 2,283,449; May 19.
Garment hanger. M. F. Bohachef. 2,283,530; May 19.
Gas from oil, Making. T. Nagle. 2,283,643; May 19.
Gaseous mixtures, Cooling of. P. M. Schuftan. 2,283,232; May 19.
Gauge: *See*—
Testing gauge.
Gearing, Change-speed. F. M. Owner. 2,283,284; May 19.
Generator: *See*—
Steam generator.
Generator circuit, Oscillation. R. H. Siemens. 2,283,653; May 19.
Girdle supporting means. N. M. Pfann. 2,283,459; May 19.

Glass sands, Purifying. F. X. Tartaron and J. B. Duke. 2,283,295; May 19.
Goggle frame. C. K. Kelley. 2,283,739; May 19.
Gold from telluride ores, Recovery of. C. G. Fink and G. L. Putnam. 2,283,196; May 19.
Golf bag support. W. H. Bright. 2,283,412; May 19.
Golf swing indicator. A. B. Modine. 2,283,277; May 19.
Governor. D. C. Rockola. 2,283,288; May 19.
Grain drier, Vertical. K. Dienst. 2,283,319; May 19.
Grating. R. J. Barry and C. Rasmussen. 2,283,307; May 19.
Grease and lubricant. G. W. Fiero. 2,283,602; May 19.
Grinding and lapping machine. R. A. Cole. 2,283,792; May 19.
Grinding apparatus. G. R. Roesch and G. White. 2,283,289; May 19.
Guard, Automobile bumper. R. A. Sandberg. 2,283,464; May 19.
Guard and towing device, Combined. H. E. Hawkins, Sr. 2,283,436; May 19.
Gun sight. G. F. Paldani. 2,283,692; May 19.
Gyroscope. H. Brandt. 2,283,720; May 19.
Hair-cutting device. A. van Dam and A. Horowitz. 2,283,834; May 19.
Halogenation of saturated aliphatic nitriles. L. R. U. Spence and D. J. Butterbaugh. 2,283,237; May 19.
Hand lamp. W. R. Kopp and D. Emerson. 2,283,559; May 19.
Handicapping device. E. W. Favalora. 2,283,799; May 19.
Handle for fishing rods, Grip. L. P. Loutrel. 2,283,816; May 19.
Hanger: *See*—
Garment hanger.
Hat forming and preserving device. D. G. Widmann. 2,283,660; May 19.
Heater. B. J. Bassett and O. E. Opichka. 2,283,407; May 19.
High molecular weight halogen- and sulphur-containing derivatives of hydrocarbon polymers. A. H. Gleason. 2,283,627; May 19.
Hitch mechanism. M. A. Zalimeni. 2,283,716; May 19.
Hog restraining device. A. A. Fosterman and L. O. Marshall. 2,283,247; May 19.
Holder: *See*—
Advertising string holder.
Card holder.
Electrode holder.
Periodical holder.
Retaining disk holder.
Soap holder.
Spool holder.
Thermometer holder.
Holder and carrier, Bottle. G. H. Hutaff, Jr. 2,283,555; May 19.
Holder for tape sections. A. Freydberg. 2,283,626; May 19.
Horn control system. J. White. 2,283,659; May 19.
Hydraulic clutch control system. E. R. Gasser. 2,283,431; May 19.
Hydraulic control mechanism. J. H. Pratt, G. E. Manley, and A. H. G. Girling. 2,283,695; May 19.
Hydraulic coupling. F. B. Yingling. 2,283,842; May 19.
Hydraulic motor. J. W. Brockson. 2,283,813; May 19.
Hydraulic press, Electrically controlled. P. E. Flowers. 2,283,358; May 19.
Hydraulic transmission. R. Tyler. 2,283,516; May 19.
Hydrocarbon conversion process. R. B. Day and E. R. Kanhofer. 2,283,851; May 19.
Hydrocarbon gas conversion process. M. P. Youker. 2,283,305; May 19.
Hypodermic syringe construction. A. E. Smith. 2,283,234; May 19.
Hysteresoscope. S. C. Leonard. 2,283,742; May 19.
Illuminating apparatus. M. Decalion. 2,283,598; May 19.
Incineration. W. S. Martin and G. R. Lewers. 2,283,641; May 19.
Indicator: *See*—
Flight indicator.
Golf swing indicator.
Line indicator.
Temperature indicator.
Indicator and alarm, Salinity. R. L. Witham. 2,283,525; May 19.
Indicator mechanism for tires. E. Erickson. 2,283,601; May 19.
Ingot mold. E. G. Mitchell, H. C. Schaper and E. Hartshorne. 2,283,450; May 19.
Injector. V. G. Klein and L. C. Rotter. 2,283,638; May 19.
Inking mechanism. A. Taylor. 2,283,830; May 19.
Inking machine, Sole edge. P. H. Dixon. 2,283,193; May 19.
Insect brushing device. M. F. Kohinka. 2,283,812; May 19.
Insecticidal composition including walnut shell flour. F. M. McLane. 2,283,275; May 19.
Insecticide and its use, Organic contact. J. W. Swaine. 2,283,471; May 19.
Insole. M. Cuozzo. 2,283,318; May 19.
Inspection tool. F. P. Kretchmer. 2,283,560; May 19.
Insulating structure, Heat. J. L. Finck. 2,283,726; May 19.
Internal combustion engine. F. M. Aspin. 2,283,594; May 19.
Internal combustion engine. E. Jedrzykowski. 2,283,370; May 19.
Internal combustion engine, Rotary. C. S. Gross. 2,283,433; May 19.
Iron and steel by the open hearth process, Manufacture of. J. J. Bowden and J. S. Suda. 2,283,622; May 19.
Isoparaffins, Production of. G. Egloff. 2,283,852; May 19.
Jack: *See*—
Bumper jack.
Pump jack.
Jacket crown. M. B. Brenner. 2,283,786; May 19.
Joint: *See*—
Pavement joint.
Joint construction, Resilient. G. H. Hufferd. 2,283,440; May 19.
Justifying mechanism. M. H. Loughridge. 2,283,680; May 19.
Kerf-cutting machine. T. E. Pray. 2,283,461; May 19.
Kerf-cutting mining machine. T. E. Pray. 2,283,696; May 19.
Key, Container. J. Hunter. 2,283,210; May 19.
Keyhole light. A. R. Koehler. 2,283,444; May 19.
Keying circuit. V. J. Cooper. 2,283,724; May 19.
Kit, Salesman's presentation. R. H. Sloan. 2,283,584; May 19.
Knitted fabric and method. W. L. Smith, Jr. 2,283,585; May 19.
Knitting method and machine. H. E. Houseman. 2,283,554; May 19.
Knitting on straight-bar knitting machines. H. W. and E. Start. 2,283,771; May 19.
Lamp: *See*—
Electric discharge lamp.
Hand lamp.
Latch for handhold cover. C. M. Johnson. 2,283,371; May 19.
Latch mechanism. C. C. Williams. 2,283,304; May 19.
Latching device. J. W. Albin. 2,283,526; May 19.
Launderable multiply fabric. F. R. Redman. 2,283,698; May 19.
Laundry machine. R. Apicella. 2,283,527; May 19.
Leveler, Automatic land. W. F. Lethlean. 2,283,744; May 19.
Lid, Refrigerated. E. J. Malek. 2,283,448; May 19.
Lift and flushing device for toilets, Combination. R. P. Landis. 2,283,678; May 19.
Lifting device, Invalid. I. and B. Sellers. 2,283,511; May 19.
Light: *See*—
Keyhole light.
Light modulating method and apparatus. J. P. Eckert, Jr. 2,283,545; May 19.
Lighting device. C. H. Braselton. 2,283,352; May 19.
Lighting fixture. E. E. Ashley and A. E. Blumenthal. 2,283,782; May 19.
Ligrocellulosic material and making same, Molded. A. W. Schorgen and J. H. Ferguson. 2,283,821; May 19.
Lignocellulosic product, Method for making molded. A. W. Schorger and J. H. Ferguson. 2,283,820; May 19.
Line indicator. F. G. Dickinson and A. G. Croninger. 2,283,493; May 19.
Liquid dispensing apparatus. E. Schwarzkopf. 2,283,652; May 19.
Liquid level in wells, Determining location of. C. P. Walker. 2,283,477; May 19.
Lock: *See*—
Pin and cylinder lock.
Locker, Beach. L. Parsek. 2,283,225; May 19.
Locking circuit. G. J. Maki. 2,283,381; May 19.
Logging strip printing apparatus. F. L. Michaels. 2,283,221; May 19.
Lubricant. S. R. Scalzitti. 2,283,581; May 19.
Magnetic contact structure. E. Lakatos and H. T. Reeve. 2,283,859; May 19.
Massage. R. Pohlman. 2,283,285; May 19.
Match box. D. L. Van Ness. 2,283,709; May 19.
Measuring arrangement, Phase. A. G. Kandoian. 2,283,676; May 19.
Merchandise display cabinet. D. T. Waddell. 2,283,301; May 19.
Metal forming machine, Sheet and plate. W. R. Beatty. 2,283,310; May 19.
Metal halide fluxes, Purification of. C. E. Nelson. 2,283,884; May 19.
Metal table. E. C. Booth. 2,283,351; May 19.
Metalworking press. W. F. Longfield. 2,283,505; May 19.
Meter: *See*—
Thermally adjustable meter.
Mining machine. J. F. Joy. 2,283,212; May 19.
Mining machine, Kerf-cutting. F. A. Lindgren. 2,283,376; May 19.
Mining, Method and apparatus for subsurface. J. W. Flude. 2,283,200; May 19.
Mitten. E. C. Lindfelt. 2,283,561; May 19.
Mixer: *See*—
Soap and water mixer.
Mold: *See*—
Ingot mold.
Molding and cutting device. A. Gibson. 2,283,249; May 19.
Monoazo-dyestuffs soluble in water. A. Sieglitz and M. Renter. 2,283,823; May 19.
Motion transforming mechanism. R. A. Moncada. 2,283,506; May 19.

Motor: *See*—
Hydraulic motor.
Reciprocating electric motor.
Servo motor.
Synchronous motor.
Motor fuel, Manufacture of. A. R. Goldsby and F. H. Bruner. 2,283,603; May 19.
Motor pump, Adjustable. A. Farrell, A. Hollander, and V. A. Hoover. 2,283,195; May 19.
Motor switch locked heat regulator, Automatic step. L. Holland-Letz. 2,283,632; May 19.
Mower and the like, Lawn. C. F. Booton. 2,283,161; May 19.
Mower equipment for direct connection to tractor, Power lawn. W. F. Krenzke. 2,283,269; May 19.
Muffler device. A. J. Ludwig. 2,283,607; May 19.
Multiple operated fastener. G. Sundback. 2,283,590; May 19.
Multiple plug connector. E. J. Glennon. 2,283,498; May 19.
Nonskid device. D. S. Kennedy. 2,283,264; May 19.
Nozzle for vacuum cleaners. P. B. Ellis. 2,283,428; May 19.
Nozzle, Paint spray. W. C. Robinson. 2,283,762; May 19.
Nozzle, Spray. H. D. Clemmons. 2,283,315; May 19.
Nut cracking machine. L. C. Mejias. 2,283,876; May 19.
Nut, Tension lock. L. D. Danforth. 2,283,850; May 19.
Oil burner. E. J. Y. Rutherford. 2,283,819; May 19.
Oil gel and making, Pigmented. W. A. Waldie. 2,283,518; May 19.
Oil level regulator. S. B. Whitlock. 2,283,303; May 19.
Oil regulating means for sewing machines. D. A. Graesser. 2,283,809; May 19.
Oil slots in piston rings, Device for milling. G. Brouwer. 2,283,165; May 19.
Oils, Conversion of hydrocarbon. B. S. Friedman and W. L. Benedict. 2,283,854; May 19.
Oscillator, Ultrahigh frequency. I. E. Mouromtseff and G. M. Dinnick. 2,283,895; May 19.
Oscillatory starter and rotary breech mechanism therefor. R. A. Coffman. 2,283,184; May 19.
Oscillographic method of frequency setting or measurement. T. Slonczewski and F. R. Stansel. 2,283,616; May 19.
Outlet construction, Suction cleaner. E. J. Kasper. 2,283,557; May 19.
Oxidation in ternary beryllium alloys, Preventing intergranular. R. H. Harrington. 2,283,675; May 19.
Paint mixing device. F. Joudry. 2,283,737; May 19.
Panel securing means. H. G. Pillsbury. 2,283,574; May 19.
Panel, Wall. O. L. Scherer. 2,283,582; May 19.
Paper and producing the same, Electrically conductive. B. L. Kline. 2,283,558; May 19.
Paper board and folding machine and method. E. L. Arneson. 2,283,159; May 19.
Parachute. J. B. Westenhaver. 2,283,479; May 19.
Patch for wire cloth or screens, Self-attaching. S. R. Gittens. 2,283,803; May 19.
Pavement joint. A. E. Brickman. 2,283,787; May 19.
Pen, Fountain. L. P. Martin. 2,283,333; May 19.
Percussive tool. W. A. Smith, Sr. 2,283,292; May 19.
Periodic switch. C. J. James. 2,283,442; May 19.
Periodical holder. A. G. Scholz. 2,283,468; May 19.
Phenols, Treatment of. R. E. Schaad. 2,283,465; May 19.
Phonograph, Automatic. T. M. Wright. 2,283,840; May 19.
Phonograph blanks, Making. F. L. Porth. 2,283,286; May 19.
Photographic composition containing arylides of N-heterocyclic acylacetic acids and developing photographic images therewith. E. R. Middleton and A. B. Jennings. 2,283,276; May 19.
Phototube and manufacture. R. J. Cashman. 2,283,413; May 19.
Picture in colors, Stereoscopic motion. R. E. Schensted. 2,283,466; May 19.
Pigmented resin gel and method of making. W. A. Waldie. 2,283,520; May 19.
Pilot, Antihunting automatic. W. M. Harcum. 2,283,753; May 19.
Pin and cylinder lock. R. P. Crousore. 2,283,489; May 19.
Pin setter unit. G. J. Schmidt. 2,283,614; May 19.
Pin support, Hair dresser's. G. Draper and V. Randle. 2,283,543; May 19.
Pipe connection for plugs and the like. J. E. Frances. 2,283,672; May 19.
Pipe cutter. T. Petersen. 2,283,572; May 19.
Pipes, Testing. R. I. Gardner. 2,283,730; May 19.
Piston. C. M. Pumphrey. 2,283,460; May 19.
Piston and piston ring. M. Gerlach and W. Gerecke. 2,283,432; May 19.
Piston for internal combustion engines. W. L. Schoengarth. 2,283,651; May 19.
Plow construction. H. E. Altgelt. 2,283,482; May 19.
Plug: *See*—
Electric plug.
Spark plug.
Plug connection, Electrical. K. A. Brainard. 2,283,177; May 19.
Pneumatic sealing tube, Self-sealing. A. G. Fitz Gerald. 2,283,801; May 19.
Pneumatic stop motion for spinning and twisting machines. H. T. Overbey. 2,283,283; May 19.
Pneumatic tire. V. M. Zamora and R. P. Roces. 2,283,843; May 19.
Porous electrode electrolytic condenser. R. U. Clark. 2,283,723; May 19.
Pot, Dash. J. T. Marshall. 2,283,682; May 19.
Power drill, Portable. H. P. Chandler. 2,283,722; May 19.
Power driven carriage return mechanism. O. J. Sundstrand. 2,283,401; May 19.
Power transmission. T. B. Doe and W. M. Gilman. 2,283,321; May 19.
Press: *See*—
Foot operated press.
Hydraulic press.
Metalworking press.
Press brake. H. F. MacMillin and P. C. Pocock. 2,283,447; May 19.
Press control, High speed. W. Ernst and P. J. Lindner. 2,283,168; May 19.
Printing machine. W. F. Huck. 2,283,501; May 19.
Printing machine. M. B. Willis. 2,283,592; May 19.
Printing machine, Card. C. Grant, J. D. Cool, and K. Lang. 2,283,804; May 19.
Printings, Method and apparatus for registering superimposed. W. Steinbach. 2,283,587; May 19.
Projectile. H. J. Nichols. 2,283,224; May 19.
Propeller, Feathering-blade. M. D. Thompson. 2,283,774; May 19.
Protective system. E. J. Schaefer. 2,283,700; May 19.
Protective system and device. A. G. Stimson. 2,283,706; May 19.
Protector: *See*—
Athletic protector.
Pulley, Variable speed. R. H. Shadrick. 2,283,392; May 19.
Pump: *See*—
Motor pump.
Pump. H. E. Adams and W. A. Kates. 2,283,348; May 19.
Pump. F. E. Brady, Jr. 2,283,844; May 19.
Pump. W. A. Kates. 2,283,263; May 19.
Pump jack, Self-oiling. K. L. Finley. 2,283,197; May 19.
Pump jack, Self-oiling. K. L. Finley. 2,283,357; May 19.
Quinoline-azo compounds. W. S. Jones and W. Braker. 2,283,211; May 19.
Rack: *See*—
Display rack.
Rack drive. W. Johs. 2,283,746; May 19.
Radio antenna system. R. M. Wilmotte. 2,283,618–19; May 19.
Radio receiver, Scanning. S. Y. White. 2,283,523; May 19.
Railway brake gear support. E. G. Busse. 2,283,847; May 19.
Railway draft rigging. R. J. Olander. 2,283,387; May 19.
Railway signaling system. H. A. Thompson. 2,283,297; May 19.
Ratchet mechanism. S. Mandl. 2,283,382; May 19.
Ratio transmission mechanism, Variable. F. B. Halford and B. W. Barlow. 2,283,434–5; May 19.
Razor, Self-sharpening safety. J. B. Brockhurst. 2,283,721; May 19.
Receptacle: *See*—
Display receptacle.
Electrically heated receptacle.
Reciprocating electric motor. V. M. Henkell. 2,283,886; May 19.
Record making machine. W. H. von Hacht. 2,283,400; May 19.
Reel: *See*—
Tag-line reel.
Reeling or spooling device and method of reeling wire and other material. A. Simons. 2,283,393; May 19.
Refractory materials, Manufacture of. V. M. Goldschmidt and K. J. Stenvik. 2,283,250; May 19.
Refrigerating system. A. Katzow. 2,283,213; May 19.
Refrigeration. E. C. Roglin. 2,283,763; May 19.
Regulating device for furnaces or the like. H. A. Lines. 2,283,745; May 19.
Regulator: *See*—
Clearance regulator.
Motor switch locked heat regulator.
Oil level regulator.
Temperature regulator.
Valve and flow regulator.
Regulator for supercharged engines, Power. A. L. Berger. 2,283,175; May 19.
Relay. C. N. Hickman and E. Lakatos. 2,283,366; May 19.
Relay, Electrical. R. M. Laurenson. 2,283,270; May 19.
Resilient materials, Testing. E. T. Lessig. 2,283,743; May 19.
Resinous condensation products, Making. M. Phillips. 2,283,458; May 19.

Retaining disk holder. C. R. Stone. 2,283,772; May 19.
Rifling tool. F. A. Miller and J. D. De Voge. 2,283,222; May 19.
Ring: *See*—
Clamping ring. Piston and piston ring.
Rivets, Apparatus for installing collapsible tubular. H. L. Trautmann. 2,283,708; May 19.
Robot for motor vehicles. A. D. Warren. 2,283,478; May 19.
Rock bit. E. G. Boice. 2,283,312; May 19.
Rocket engine. E. Achterman. 2,283,863; May 19.
Rod: *See*—
Traffic marker rod.
Rod and reel, Fishing. W. Teitsma. 2,283,773; May 19.
Roof drain, Water level control. J. Heinkel. 2,283,365; May 19.
Rope package, Measured-section. G. F. Waterbury. 2,283,710; May 19.
Rubber articles, Manufacturing thin. R. E. Thompson. 2,283,238; May 19.
Rubber, One-stage process for the manufacture of. L. Cooper and D. Roberts. 2,283,316; May 19.
Rubber, Vulcanization of. R. A. Mathes. 2,283,747; May 19.
Rubber, Vulcanization of. A. M. Neal and B. M. Sturgis. 2,283,334–7; May 19.
Rubber, Vulcanization of. B. M. Sturgis. 2,283,342; May 19.
Rule, Slide. J. Tyler, L. M. Kells, W. F. Kern, and J. R. Bland. 2,283,473; May 19.
Salt dispenser. D. O. Ford. 2,283,547; May 19.
Sandal. R. C. Marcy. 2,283,273; May 19.
Scale, Weighing. C. L. Conners. 2,283,425; May 19.
Scissors, Electric. E. J. Wiggins. 2,283,403; May 19.
Scraper, Hydraulically self-operated earth moving. D. E. Sturges. 2,283,470; May 19.
Screen. R. D. Heller. 2,283,877; May 19.
Screen and storm window, Quick-convertible. B. C. James. 2,283,635; May 19.
Screen cloth, Making. R. B. Heller. 2,283,878; May 19.
Screw and washer assemblies, Making. H. C. Erdman. 2,283,494; May 19.
Seat: *See*—
Water closet seat.
Seat adjuster. E. Richter. 2,283,761; May 19.
Seat mechanism, Reclining. E. J. Beck. 2,283,485; May 19.
Separator: *See*—
Centrifugal separator. Garlic separator.
Fruit separator.
Separator. G. D. Arnold. 2,283,483; May 19.
Servo motor. E. Dodson. 2,283,541; May 19.
Sewage material, Treating. W. E. Buell and L. A. Winter. 2,283,166; May 19.
Sewing machine. L. G. Burkey. 2,283,535; May 19.
Shaving machine. J. H. Cohen. 2,283,865; May 19.
Shearing machine. H. G. Simonsen. 2,283,824; May 19.
Sheet metal joint locks and the like, Producing. J. Jensen. 2,283,258; May 19.
Shield, Eye. F. R. Gonsett. 2,283,752; May 19.
Shipping apparatus. J. Bean. 2,283,308; May 19.
Shoe-treating apparatus. I. B. Andrews. 2,283,306; May 19.
Shoes, Method of and apparatus for making. B. Jorgensen. 2,283,260; May 19.
Shotgun, Air. P. F. Vincent. 2,283,360; May 19.
Shower pipe cleaning device. F. Schueler. 2,283,768; May 19.
Shutter, Light. G. A. Brueske. 2,283,533; May 19.
Shutter, Light. B. Stechbart. 2,283,536; May 19.
Signaling system. J. W. Cox. 2,283,415; May 19.
Signaling system. J. T. McNaney. 2,283,383; May 19.
Skins, Method and composition for degreasing. F. C. Castendyk. 2,283,421; May 19.
Sleep inducer. B. K. Greenwood. 2,283,628; May 19.
Slicer. F. B. Pedersen. 2,283,569; May 19.
Snubber, Car spring. N. E. Gee. 2,283,855; May 19.
Soap and water mixer. L. Siano. 2,283,770; May 19.
Soap holder. J. R. Mathias. 2,283,875; May 19.
Soap, Making. B. H. Thurman. 2,283,776; May 19.
Sock. O. C. Morse. 2,283,278; May 19.
Socket, Electric. E. J. Atterbury. 2,283,405; May 19.
Socket for radios, Pilot. D. T. Mitchell. 2,283,689; May 19.
Socket for tube lamps. A. Osterloo. 2,283,454; May 19.
Sofa bed. P. Cutler. 2,283,417; May 19.
Soil pipe hub clamp. A. P. Buckingham. 2,283,179; May 19.
Solid polymers of vinyl aromatic compounds, Manufacture of. W. R. Collings, D. L. Gibb, and G. P. Schmeiter. 2,283,539; May 19.
Spark plug. H. M. Brewster. 2,283,164; May 19.
Sponge rubber, Making. M. M. Harrison. 2,283,604; May 19.
Spool holder. B. H. Krafft. 2,283,373; May 19.
Spreader for asphalt and the like. I. J. Overman. 2,283,456; May 19.
Spring suspension device for cycles and motorcycles. A. D. and R. S. Finlay. 2,283,671; May 19.
Stand: *See*—
Switch stand. Telephone stand.
Stand for microphones and the like. P. J. Faber. 2,283,324; May 19.
Staple and stapling. D. R. La Place. 2,283,814; May 19.
Stapling device. M. Vogel. 2,283,873; May 19.
Steam generator. C. S. Gillette and R. C. Brierly. 2,283,201; May 19.
Steel, Colored. C. Batcheller. 2,283,171; May 19.
Steel, Coloring etched stainless. C. Batcheller 2,283,170; May 19.
Steel, Graphitic. F. R. Bonte. 2,283,664; May 19.
Steel, Manufacture of. N. F. Tisdale. 2,283,299; May 19.
Stencil, Fingernail. N. Stedman. 2,283,703; May 19.
Sterol degradation products, Preparing of. H. Bretschneider and L. Fürl. 2,283,411; May 19.
Stilt. J. G. Banister. 2,283,595; May 19.
Stoker alarm system. E. K. Scoggin. 2,283,467; May 19.
Strapping device. H. J. Spencer. 2,283,827; May 19.
Suction cleaner. C. G. Troxler. 2,283,833; May 19.
Suction cleaner. H. B. White. 2,283,836; May 19.
Sulphonated derivatives of polymerised methylstyrene. F. J. Soday. 2,283,236; May 19.
Sulphonated organic compounds as capillary-active media. W. Hentrich, C. A. Lainau, and W. J. Kaiser. 2,283,437; May 19.
Sulphur, Process and apparatus for burning. A. Regenbrecht. 2,283,228; May 19.
Support: *See*—
Brake gear safety support. Pin support.
Clothesline support. Railway brake gear support.
Foot arch support.
Golf bag support.
Support. C. E. Murphy. 2,283,279; May 19.
Surfacing the bearing metal layer of composite bearing rock. L. Sandler. 2,283,580; May 19.
Switch: *See*—
Dimmer switch. Periodic switch.
Electric switch.
Switch. J. X. Mathieu. 2,283,748; May 19.
Switch stand. W. S. Newhall. 2,283,645; May 19.
Synchronous motor, Slow speed self-starting. W. L. Hansen and I. N. Hurst. 2,283,363; May 19.
Synthetic contact masses and their preparation. J. R. Bates. 2,283,173; May 19.
Syringe appliance. M. E. Demsey. 2,283,668; May 19.
Switching mechanism. C. G. Kronmiller. 2,283,374; May 19.
Table: *See*—
Metal table.
Table cloth stretcher. P. M. Hintz. 2,283,367; May 19.
Tack. A. Sbicca. 2,283,766; May 19.
Tag-line reel. R. O. Billings. 2,283,784; May 19.
Tap, Collapsible. F. Neil. 2,283,280; May 19.
Tape, Stay. E. H. Angier. 2,283,349; May 19.
Telegraph receiver, Gain controlled. R. A. Wood. 2,283,404; May 19.
Telephone answering system. H. R. Van Deventer. 2,283,591; May 19.
Telephone apparatus and circuit therefor. H. I. Nicholas. 2,283,646; May 19.
Telephone circuits, Prevention of interference in. F. D. Layne. 2,283,891; May 19.
Telephone coin collector. C. C. Towne. 2,283,396; May 19.
Telephone stand. G. W. Hunter. 2,283,441; May 19.
Telephone system. M. E. Mohr. 2,283,610; May 19.
Telephone system. W. B. Strickler. 2,283,395; May 19.
Teletypewriter exchange system. A. R. Bonorden. 2,283,410; May 19.
Temperature indicator. J. I. Liner. 2,283,378; May 19.
Temperature regulator, Automatic uniform step. L. Holland-Letz. 2,283,633; May 19.
Tens transfer device. N. E. J. Stahl. 2,283,655; May 19.
Testing gauge, Automatic. A. F. Toelke and P. J. Wenta. 2,283,585; May 19.
Textile and paper machine drive. E. L. Richardson. 2,283,699; May 19.
Texture casting, Fine. S. R. McBride. 2,283,749; May 19.
Therapeutic apparatus. F. Wagner. 2,283,475; May 19.
Thermally adjustable meter. W. S. Brubaker and A. J. Saarinen. 2,283,532; May 19.
Thermionic apparatus, Safely servicing. E. G. Gage. 2,283,727; May 19.
Thermionic apparatus, Safely servicing. E. G. Gage. 2,283,729; May 19.
Thermometer holder. A. Frese. 2,283,248; May 19.
Thermometer, Inclined. C. F. Gedge. 2,283,360; May 19.
Thiazane-3,5-dicarboxylic acid derivatives. R. D. Coghill. 2,283,186; May 19.
Thread guides for thread winding machines. H. Dersen. 2,283,419; May 19.
Thresher. A. B. Welty. 2,283,402; May 19.
Tie stitching machine. R. Naftali, V. Naftali, and H. Naftali. 2,283,691; May 19.
Tile, Manufacture of. A. H. Stewart. 2,283,705; May 19.
Tire, Safety. J. V. Martin. 2,283,274; May 19.
Tobacco forming machine and guard therefor. L. Swinford. 2,283,887; May 19.
Tone-and-color synthesis in color reproduction, Method of and product of. F. G. Yanes. 2,283,715; May 19.

Tool: *See*—
Centering tool. Inspection tool.
Diamond-holding tool. Percussive tool.
Distributor adjusting tool. Rifling tool.
Electric tool. Well tool.
Tool and dipper for oil burners, Cleaning. C. P. Edgren and J. E. Olson. 2,283,669; May 19.
Tool and holder structure. A. Stanworth. 2,283,514; May 19.
Tool carriage, Portable. L. W. Young. 2,283,347; May 19.
Toothbrush assembly for liquid dentrifices. D. Aiken. 2,283,781; May 19.
Torch, Welding. J. B. Nealey. 2,283,567; May 19.
Torque measuring wrench. H. W. Zimmerman. 2,283,888; May 19.
Torque wrench. P. A. Sturtevant. 2,283,707; May 19.
Torsion pendulum damping apparatus. J. T. Norton. 2,283,453; May 19.
Tractor-attached implement. A. C. Lindgren and C. W. Mott. 2,283,377; May 19.
Traffic marker rod. H. T. Thompson. 2,283,515; May 19.
Transformer. S. O. Evans. 2,283,670; May 19.
Transformer. A. U. Welch, Jr. 2,283,712; May 19.
Transformer means permitting safe handling of dangerous circuits. E. G. Gage. 2,283,728; May 19.
Translating and recording device. E. H. Clark. 2,283,538; May 19.
Transmission. W. L. Pollard. 2,283,759; May 19.
Transmission mechanism, Variable ratio. F. B. Halford and B. W. Barlow. 2,283,435; May 19.
Transmission system, High frequency. W. van B. Roberts. 2,283,575; May 19.
Transmitter, High frequency modulated radio signal. E. C. Cork and J. L. Pawsey. 2,283,793; May 19.
Tripod. G. H. Chamberlain, Jr. 2,283,422; May 19.
Trolley, Overhead conveyor. L. Gaboury. 2,283,359; May 19.
Trough and connecting means therefor. W. W. Sloane. 2,283,825; May 19.
Trousers, Ski. M. C. Hamilton. 2,283,362; May 19.
Truck, Four-wheel. D. M. Light. 2,283,332; May 19.
Tube: *See*—
Pneumatic sealing tube. Ultra-high frequency tube.
Tubes, Producing self sealing. F. G. Carnahan. 2,283,183; May 19.
Turnstile. S. Madsen. 2,283,681; May 19.
Twin bank engine. F. M. Lewis. 2,283,606; May 19.
Typewriting machine. W. O. Michelsen. 2,283,565; May 19.
Typewriting machine. H. B. Smith. 2,283,235; May 19.
Ultra-high frequency tube. I. E. Mouromtseff and G. M. Dinnick. 2,283,894; May 19.
Unsaponifiable substances from their mixtures or compounds with saponifiable substances, Separating. H. Pardun. 2,283,456; May 19.
Valve: *See*—
Cast valve. Fuel-injection nozzle valve.
Control valve.
Diaphragm valve.
Valve. C. F. Johnson. 2,283,259; May 19.
Valve. F. W. Johnson. 2,283,605; May 19.
Valve. L. C. Karrick. 2,283,556; May 19.
Valve. R. L. Ohls. 2,283,281; May 19.
Valve. W. R. Tucker. 2,283,397; May 19.
Valve and flow regulator, Reducing. C. N. Erickson. 2,283,355; May 19.
Valve control system, Electric. H. L. Palmer. 2,283,647; May 19.
Valve disk, Gyratory. G. H. Molden. 2,283,452; May 19.
Valve for suction cleaner dirt bags, Inlet. J. W. Weaver. 2,283,835; May 19.
Valve mechanism. P. C. Temple. 2,283,296; May 19.
Vaporizing apparatus. W. Lister. 2,283,562; May 19.
Varnish compositions. I. C. Clare. 2,283,353; May 19.
Varnish manufacture. M. F. Pratt, T. L. Apjohn, and J. Happel. 2,283,872; May 19.
Vehicle braking system. A. M. Wolf. 2,283,713; May 19.
Vehicle jack, Structure. E. Strom. 2,283,588; May 19.
Vending machine and control mechanism therefor, Coin operated. W. Hartman, M. W. Greenwald, and C. F. Carroll. 2,283,252; May 19.
Venetian blind. D. Kwon. 2,283,640; May 19.
Vibration damping device. L. A. McNabb. 2,283,861; May 19.
Wall insulation. M. A. Jorsch. 2,283,257; May 19.
Warning agent. W. S. Calcott. 2,283,666; May 19.
Washer: *See*—
Bean washer.
Washing device. H. D. Lathrop. 2,283,679; May 19.
Washing, wetting, and emulsifying agents. L. P. Kyrides. 2,283,214; May 19.
Watches, Movement for wrist. B. S. Katz. 2,283,330; May 19.
Water closet seat. H. C. Leslie. 2,283,892–3; May 19.
Water storage system and pilot-operated relief device therefor, Hot. C. Smith. 2,283,513; May 19.
Water strata in wells, Method of and apparatus for determining the location of. G. H. Ennis. 2,283,429; May 19.
Weaving machine. E. B. Moore. 2,283,870; May 19.
Weed cutter. W. G. Edell. 2,283,322; May 19.
Well drilling system, Rotary. A. Hollander. 2,283,207; May 19.
Well fluids, Controlling. J. T. Hayward. 2,283,206; May 19.
Well tool. C. C. Heeter. 2,283,254; May 19.
Wells, Drilling. C. M. Potter. 2,283,510; May 19.
Wells, Treatment of. O. W. Lyons. 2,283,563; May 19.
Wheel structure. J. R. Manning. 2,283,860; May 19.
Window construction. C. A. Shogren. 2,283,822; May 19.
Window operator. E. Peremi and L. Toth. 2,283,862; May 19.
Window shade, Reversible. S. J. Johnson. 2,283,329; May 19.
Window structure. M. B. Schiller. 2,283,389; May 19.
Wiring system for motor vehicle. M. L. Boling. 2,283,789; May 19.
Wrench: *See*—
Drill bit wrench. Torque wrench.
Torque measuring wrench.
Yarn tension device. A. K. Schoenenberg. 2,283,767; May 19.
Yarn winding machinery. W. H. Kimpton. 2,283,265; May 19.
Zeolites and their treatment. J. R. Bates. 2,283,172; May 19.

CLASSIFICATION OF PATENTS

ISSUED MAY 19, 1942

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

1— 49: 2,283,873
2— 14: 2,283,739
15: 2,283,752
74: 2,283,642
158: 2,283,561
227: 2,283,362
240: 2,283,278
4— 67: 2,283,678
170: 2,283,794
240: 2,283,892
2,283,893
255: 2,283,780
5— 38: 2,283,417
100: 2,283,570
8— 46: 2,283,829
137: 2,283,214
9— 1: 2,283,648
10— 95: 2,283,280
12— 1: 2,283,306
17: 2,283,550
31: 2,283,193
51: 2,283,260
78: 2,283,204
2,283,239
13— 6: 2,283,188
2,283,800
15— 24: 2,283,314
49: 2,283,229
131.1 2,283,515
2,283,765
135: 2,283,463
138: 2,283,781
155: 2,283,428
183: 2,283,833
200: 2,283,293
236: 2,283,282
18— 5: 2,283,751
8: 2,283,169
48.3: 2,283,286
53: 2,283,316
55: 2,283,364
2,283,688
2,283,845
57: 2,283,809
58: 2,283,238
20— 4: 2,283,257
52: 2,283,822
55: 2,283,635
74: 2,283,783
92: 2,283,582
22— 65: 2,283,187
126: 2,283,749
146: 2,283,450
188: 2,283,611
23— 1: 2,283,832
141: 2,283,849
179: 2,283,228
186: 2,283,758
230: 2,283,262
260: 2,283,209
288: 2,283,208
24— 13: 2,283,543
19: 2,283,179
79: 2,283,459
81: 2,283,663
205: 2,283,590
232: 2,283,328
25— 30: 2,283,735
26— 68: 2,283,699
29— 62: 2,283,227
96: 2,283,222
103: 2,283,481
149.5: 2,283,580
30— 36: 2,283,721
43: 2,283,834
2,283,865
102: 2,283,572
136: 2,283,669
221: 2,283,824
228: 2,283,403
299: 2,283,322
31— 26: 2,283,569
32— 12: 2,283,786
32: 2,283,385
33— 55: 2,283,692
191: 2,283,806
204: 2,283,190
34— 76: 2,283,319
79: 2,283,858
35— 63: 2,283,272
36— 7.5: 2,283,595
11.5: 2,283,273
22: 2,283,318
71: 2,283,446
37— 150: 2,283,744
169: 2,283,470
38— 25: 2,283,548
2,283,553
40— 20: 2,283,837
53: 2,283,418
63: 2,283,546
108: 2,283,702
41— 18: 2,283,171
33: 2,283,480
42: 2,283,170
43— 4: 2,283,773
2,283,779
16: 2,283,233
23: 2,283,816
44— 19: 2,283,192
45— 24: 2,283,367
28: 3,283,875
68.3: 2,283,828
82: 2,283,690
46— 36: 2,283,628
47— 61: Pl.Pt.516
Pl.Pt.517
48— 211: 2,283,643
49— 81: 2,283,705
50— 35: 2,283,355
51— 3: 2,283,792
124: 2,283,289
184.1: 2,283,521
2,283,522
53— 7: 2,283,256
56— 7: 2,283,269
181: 2,283,528
249: 2,283,161
57— 79: 2,283,283
58— 59: 2,283,330
60— 13: 2,283,175
35.6: 2,283,863
49: 2,283,176
51: 2,283,516
52: 2,283,168
2,283,358
2,283,593
54: 2,283,431
54.5: 2,283,695
62— 6: 2,283,386
14.1: 2,283,818
19: 2,283,508
119.5: 2,283,213
122: 2,283,232
140: 2,283,391
65— 22: 2,283,390
61: 2,283,734
66— 89: 2,283,771
135: 2,283,554
172: 2,283,585
68— 20: 2,283,612
140: 2,283,527
70— 81: 2,283,225
168: 2,283,371
264: 2,283,596
419: 2,283,489
72— 46: 2,283,167
86: Re.22,098
72— 116: 2,283,726
73— 51: 2,283,429
2,283,453
2,283,588
2,283,743
2,283,750
179: 2,283,311
253: 2,283,532
272: 2,283,408
375: 2,283,248
2,283,360
74— 1: 2,283,680
5: 2,283,720
41: 2,283,197
136: 2,283,506
189.5: 2,283,486
2,283,759
230.17: 2,283,267
2,283,392
260: 2,283,284
315: 2,283,661
422: 2,283,746
75— 43: 2,283,163
54: 2,283,622
93: 2,283,884
102: 2,283,198
105: 2,283,196
129: 2,283,299
170: 2,283,246
77— 5: 2,283,338
8: 2,283,722
58: 2,283,491
2,283,497
63: 2,283,469
80— 3: 2,283,416
61: 2,283,494
81— 15: 2,283,789
55: 2,283,625
83— 42: 2,283,571
93: 2,283,449
85— 5: 2,283,526
16: 2,283,766
31: 2,283,243
88— 16: 2,283,788
16.4: 2,283,466
19.5: 2,283,202
20: 2,283,769
24: 2,283,268
29: 2,283,777
104: 2,283,560
90— 12.5: 2,283,323
13.5: 2,283,240
21: 2,283,165
25: 2,283,579
33: Re.22,099
38: 2,283,507
91— 12.2: 2,283,253
44: 2,283,372
46: 2,283,621
93— 38: 2,283,492
42: 2,283,814
94— 4: 2,283,307
18: 2,283,787
44: 2,283,455
95— 2: 2,283,361
2,283,715
6: 2,283,276
55: 2,283,533
2,283,586
97— 50: 2,283,377
112: 2,283,482
99— 11: 2,283,531
103: 2,283,290
104: 2,283,302
140: 2,283,589
171: 2,283,390
100— 71: 2,283,447
101— 194: 2,283,592
211: 2,283,587
101— 297: 2,283,804
365: 2,283,830
102— 92: 2,283,224
103— 25: 2,283,271
38: 2,283,242
87: 2,283,195
96: 2,283,844
114: 2,282,263
105— 197: 2,283,332
376: 2,283,756
377: 2,283,308
106— 59: 2,283,250
95: 2,283,573
241: 2,283,520
243: 2,283,519
254: 2,283,518
107— 22: 2,283,838
25: 2,283,298
28: 2,283,757
109— 4: 2,283,542
110— 12: 2,283,641
72: 2,283,745
75: 2,283,631
112— 2: 2,283,802
132: 2,283,535
219: 2,283,691
256: 2,283,869
113— 38: 2,283,505
51: 2,283,356
114— 13: 2,283,484
57: 2,283,291
210: 2,283,500
116— 68: 2,283,354
114: 2,283,831
117— 41: 2,283,420
56: 2,283,409
123: 2,283,383
119— 3: 2,283,472
98: 2,283,247
156: 2,283,812
120— 34: 2,283,493
50: 2,283,333
121— 37: 2,283,185
38: 2,283,826
41: 2,283,541
2,283,810
46.5: 2,283,397
164: 2,283,313
122— 382: 2,283,451
491: 2,283,201
123— 16: 2,283,433
18: 2,283,184
52: 2,283,606
90: 2,283,536
119: 2,283,644
2,283,694
133: 2,283,562
169: 2,283,164
180: 2,283,370
190: 2,283,594
124— 13: 2,283,300
125— 34: 2,283,292
39: 2,283,320
126— 41: 2,283,853
110: 2,283,407
121: 2,283,427
122: 2,283,790
128— 24: 2,283,285
33: 2,283,475
128— 62: 2,283,686
71: 2,283,549
160: 2,283,684
218: 2,283,234
229: 2,283,848
249: 2,283,668
284: 2,283,178
129— 39: 2,283,468
130— 27: 2,283,402
131— 84: 2,283,394
131— 87: 2,283,887
132— 41: 2,283,426
2,283,517
88.5: 2,283,703
136— 131: 2,283,379
137— 21: 2,283,513
68: 2,283,303
153: 2,283,296
166: 2,283,266
138— 30: 2,283,439
89: 2,283,672
89.3: 2,283,490
139— 124: 2,283,870
140— 3: 2,283,878
2,283,882
7: 2,283,881
92.2: 2,283,880
93: 2,283,827
141— 7: 2,283,679
144— 284: 2,283,331
146— 12: 2,283,876
27: 2,283,714
150: 2,283,249
196: 2,283,488
148— 2: 2,283,664
12: 2,283,763
19.9: 2,283,675
149— 2: 2,283,421
6: 2,283,540
150— 1.5: 2,283,412
151— 7: 2,283,850
152— 7: 2,283,274
225: 2,283,264
334: 2,283,843
348: 2,283,801
153— 28: 2,283,258
54: 2,283,310
68: 2,283,503
154— 15: 2,283,183
46: 2,283,698
155— 14: 2,283,761
54: 2,283,755
161: 2,283,485
165: 2,283,600
156— 14: 2,283,803
17: 2,283,640
25: 2,283,329
158— 1: 2,283,658
4: 2,283,819
27.4: 2,283,567
28: 2,283,496
164— 21: 2,283,629
68: 2,283,255
89: 2,283,504
166— 21: 2,283,563
167— 22: 2,283,471
24: 2,283,275
55: 2,283,817
88: 2,283,350
169— 2: 2,283,775
170— 162: 2,283,774
171— 95: 2,283,566
97: 2,283,231
2,283,785
119: 2,283,712
2,283,738
242: 2,283,741
321: 2,283,808
172— 126: 2,283,551
2,283,552
2,283,886
245: 2,283,616
2,283,676
274: 2,283,662
278: 2,283,363
281: 2,283,568
173— 322: 2,283,544
328: 2,283,454
2,283,689
173— 332: 2,283,498
2,283,907
334.1: 2,283,398
361: 2,283,177
2,283,889
3.62: 2,283,405
174— 134: 2,283,868
140: 2,283,685
175— 183: 2,283,399
2,283,742
294: 2,283,607
2,283,700
315: 2,283,723
358: 2,283,670
2,283,711
361: 2,283,732
2,283,733
176— 34: 2,283,287
122: 2,283,352
126: 2,283,189
2,283,216
177— 7: 2,283,659
311: 2,283,180
2,283,344
2,283,525
2,283,796
178— 2: 2,283,410
6.5: 2,283,226
6.6: 2,283,415
52: 2,283,381
66: 2,283,724
179— 1: 2,283,646
3: 2,283,760
4: 2,283,203
6: 2,283,591
8.5: 2,283,610
18: 2,283,395
78: 2,283,891
100.3: 2,283,545
171: 2,283,241
171.5: 2,283,793
181— 0.5: 2,283,200
2,283,477
35: 2,283,607
182— 31: 2,283,160
2,283,365
183— 38: 2,283,836
184— 7: 2,283,628
11: 2,283,357
188— 10: 2,283,713
56: 2,283,864
78: 2,283,673
97: 2,283,682
152: 2,283,654
2,283,687
183: 2,283,288
209: 2,283,636
210: 2,283,846
2,283,847
236: 2,283,637
189— 47: 2,283,537
64: 2,283,389
84: 2,283,574
192— .01: 2,283,423
2,283,478
3: 2,283,623
12: 2,283,842
43.2: 2,283,382
105: 2,283,325
194— 1: 2,283,396
55: 2,283,681
196— 9: 2,283,305
10: 2,283,499
2,283,603
52: 2,283,851
53: 2,283,854
197— 1: 2,283,221
9: 2,283,235
20: 2,283,538

197— 66: 2,283,400
2,283,401
2,283,565
198— 25: 2,283,615
66: 2,283,811
220: 2,283,825
200— 11: 2,283,630
30: 2,283,442
86: 2,283,534
2,283,601
67: 2,283,809
86: 2,283,374
87: 2,283,240
2,283,748
93: 2,283,270
2,283,366
120: 2,283,659
122: 2,283,368
2,283,736
135: 2,283,701
150: 2,283,693
2,283,874
157: 2,283,778
163: 2,283,657
2,283,717
166: 2,283,795
2,283,859
201— 48: 2,283,378
204— 2: 2,283,558
32: 2,283,218
181: 2,283,206
206— 16.5: 2,283,599
29: 2,283,709
41: 2,283,624
207— 15: 2,283,791
209— 75: 2,283,665
143: 2,283,483
166: 2,283,295
173: 2,283,512
400: 2,283,877
210— 7: 2,283,166
69: 2,283,457
201: 2,283,495
211— 74: 2,283,194
103: 2,283,205
211— 128: 2,283,890
212— 142: 2,283,443
213— 48: 2,283,387
219: 2,283,731
214— 10.5: 2,283,309
46.5: 2,283,857
146: 2,283,784
218— 19: 2,283,665
2,283,706
219— 8: 2,283,162
19: 2,283,261
21: 2,283,343
35: 2,283,182
220— 24: 2,283,448
52: 2,283,210
61: 2,283,339
221— 61: 2,283,547
62: 2,283,248
67: 2,283,652
85: 2,283,414
102: 2,283,520
112: 2,283,230
123: 2,283,805
223— 24: 2,283,660
91: 2,283,530
226— 82: 2,283,181
229— 2.5: 2,283,704
49: 2,283,349
51: 2,283,856
78: 2,283,815
230— 114: 2,283,434
2,283,435
2,283,609
132: 2,283,557
238: 2,283,317
235— 61: 2,283,375
69: 2,283,191
70: 2,283,473
83: 2,283,799
139: 2,283,655
236— 1: 2,283,467
76: 2,283,632
2,283,633
240— 2.13: 2,283,444
6.4: 2,283,430
240—10.63: 2,283,384
11.3: 2,283,559
41.3: 2,283,598
78: 2,283,782
242— 25: 2,283,393
26: 2,283,419
45: 2,283,265
56: 2,283,626
75: 2,283,321
114: 2,283,879
130: 2,283,673
146: 2,283,474
154: 2,283,767
161: 2,283,710
244— 43: 2,283,223
76: 2,283,753
79: 2,283,754
126: 2,283,502
145: 2,283,479
246— 33: 2,283,397
411: 2,283,645
248— 150: 2,283,279
154: 2,283,813
174: 2,283,406
186: 2,283,422
194: 2,283,324
250— 6: 2,283,575
8: 2,283,404
11: 2,283,620
2,283,677
20: 2,283,523
27: 2,283,647
2,283,719
2,283,727
2,283,728
2,283,729
27.5: 2,283,413
2,283,639
2,283,861
2,283,894
2,283,895
2,283,896
33: 2,283,524
2,283,617
2,283,618
250— 33: 2,283,619
36: 2,283,653
150: 2,283,383
251— 24: 2,283,369
29: 2,283,556
44: 2,283,772
102: 2,283,259
2,283,281
122: 2,283,835
160: 2,283,452
252— 8.5: 2,283,564
25: 2,283,581
36: 2,283,602
68: 2,283,666
254: 2,283,172
2,283,173
2,283,174
259.2: 2,283,174
254— 24: 2,283,315
103: 2,283,476
130: 2,283,511
190: 2,283,576
255— 1.4: 2,283,650
1.8: 2,283,510
22: 2,283,866
24: 2,283,207
259— 9: 2,283,487
144: 2,283,737
260— 9: 2,283,820
10: 2,283,458
2,283,821
19: 2,283,353
2,283,972
45: 2,283,740
79: 2,283,627
91: 2,283,236
2,283,530
143: 2,283,294
148: 2,283,718
153: 2,283,261
155: 2,283,211
2,283,220
158: 2,283,823
160: 2,283,667
163: 2,283,326
205: 2,283,327
260— 243: 2,283,196
397.3: 2,283,411
404: 2,283,683
418: 2,283,776
452: 2,283,456
457: 2,283,437
2,283,438
464: 2,283,237
484: 2,283,764
505: 2,283,199
624: 2,283,465
676: 2,283,852
723: 2,283,604
784: 2,283,747
786: 2,283,335
2,283,336
2,283,337
2,283,342
788: 2,283,334
800: 2,283,868
261— 92: 2,283,445
262— 29: 2,283,212
2,283,696
30: 2,283,376
2,283,461
265— 1: 2,283,707
2,283,888
12: 2,283,730
24: 2,283,244
38: 2,283,425
49: 2,283,634
266— 3: 2,283,798
23: 2,283,345
2,283,346
2,283,347
267— 3: 2,283,856
268— 34: 2,283,577
117: 2,283,862
270— 5: 2,283,501
2,283,597
80: 2,283,159
273— 35: 2,283,277
36: 2,283,462
93: 2,283,578
142: 2,283,583
274— 1: 2,283,841
10: 2,283,840
42: 2,283,797
277— 46: 2,283,605
279— 83: 2,283,514
280— 204: 2,283,716
284: 2,283,671
281— 16: 2,283,584
285— 47.2: 2,283,649
287— 53: 2,283,348
20.5: 2,283,359
85: 2,283,440
109: 2,283,254
292— 212: 2,283,304
357: 2,283,674
293— 55: 2,283,436
2,283,464
294— 65: 2,283,613
87: 2,283,555
88: 2,283,614
299— 59: 2,283,768
83: 2,283,770
88: 2,283,341
96: 2,283,796
107.6: 2,283,725
136: 2,283,315
140: 2,283,762
301— 36: 2,283,860
309— 21: 2,283,608
308— 109: 2,283,871
174: 2,283,312
184: 2,283,839
237: 2,283,217
242: 2,283,219
309— 3: 2,283,424
4: 2,283,460
11: 2,283,651
33: 2,283,432
311— 106: 2,283,351
312— 31: 2,283,867
34: 2,283,441
65: 2,283,252
118: 2,283,301

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,283,174: 252—259.2
2,283,192: 44— 19
2,283,205: 211— 103
2,283,214: 8— 137
2,283,224: 102— 92
2,283,225: 70— 81
2,283,236: 260— 91
2,283,242: 103— 38
2,283,291: 114— 57
2,283,292: 125— 34
2,283,293: 15— 200
2,283,307: 94— 4
2,283,309: 214—10.5
2,283,319: 34— 76
2,283,322: 30— 290
2,283,334: 260— 788
2,283,351: 311— 106
2,283,356: 113— 51
2,283,357: 184— 11
2,283,359: 287— 20.5
2,283,364: 18— 55
2,283,383: 250— 180
2,283,413: 250— 27.5
2,283,441: 312— 34
2,283,459: 24— 79
2,283,482: 97— 112
2,283,491: 77— 58
2,283,515: 15—131.1
2,283,516: 60— 51
2,283,518: 106— 254
2,283,519: 106— 243
2,283,522: 51—184.1
2,283,528: 56— 181
2,283,556: 251— 20
2,283,573: 106— 95
2,283,587: 101— 211
2,283,597: 270— 5
2,283,602: 252— 36
2,283,607: 181— 35
2,283,620: 250— 11
2,283,627: 260— 79
2,283,675: 148— 19.9
2,283,678: 4— 67
2,283,696: 262— 29
2,283,699: 26— 68
2,283,755: 155— 54
2,283,763: 148— 12
2,283,766: 15—131.1
2,283,771: 66— 89
2,283,773: 43— 4
2,283,779: 43— 4
2,283,790: 126— 122
2,283,798: 266— 3
2,283,811: 198— 68
2,283,813: 248— 154
2,283,819: 158— 4
2,283,858: 34— 79
2,283,883: 117— 123
2,283,892: 4— 240

U. S. GOVERNMENT PRINTING OFFICE: 1942

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905. Sec. 6, as amended Mar. 2, 1907]

A B C Co. (See Bernstein, Ann R.)
Aktiebolaget Lauxein-Casco, Stockholm, Sweden. Seed disinfectants and impregnations for wood, textile, and other porous stuffs. Serial No. 439,007; May 26. Class 6.
Allied Stores Corporation, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash., and as Day Brothers & Company, Syracuse, N. Y. Silverware. Serial No. 450,150; May 26. Class 28.
American Chicle Co., Long Island City, N. Y. Chewing gum. Serial No. 449,335; May 26. Class 46.
American Glossite Co., Inc., New York, N. Y. Glossy coating for paper products. Serial No. 451,792; May 26. Class 6.
American Oil Company, Baltimore, Md. Soap and cleaning solvent. Serial No. 450,987; May 26. Class 4.
American Oil Company, Baltimore, Md. Soap and cleaning solvent. Serial No. 450,989; May 26. Class 4.
American Spectacle Co., Inc., New York, N. Y. Spectacles and goggles and lenses therefor. Serial No. 442,769; May 26. Class 26.
Aralac, Inc., New York, N. Y. Combed and topped casein fibre pretreated with lanolin for use in wrapping around hair ends for protection during permanent waving. Serial Nos. 452,092–3; May 26. Class 44.
Archer Dental Mfg. & Supply Co. (See Blackwood, H. C.)
Arkadelphia Milling Company, Incorporated, Arkadelphia, Ark. Wheat flour. Serial No. 448,542; May 26. Class 46.
As-Bes-Tex. (See Mason, C. B.)
Atwater, William C., & Co. Inc., New York, N. Y. Coal. Serial No. 451,373; May 26. Class 1.
Banson Products Co. (See Banta, Guy J.)
Banta, Guy J., doing business as Banson Products Co., Los Angeles, Calif. Bath powder used as a substitute for soap. Serial No. 451,377; May 26. Class 4.
Barnett and Ramel Optical Co., Kansas City, Mo. Ophthalmic products. Serial No. 443,592; May 26. Class 26.
Bell Aircraft Corporation, Buffalo, N. Y. Airplanes and structural parts thereof. Serial Nos. 448,238–40; May 26. Class 19.
Bernstein, Ann R., doing business as A B C Co., New York, N. Y. Soap. Serial No. 443,832; May 26. Class 4.
Betz, W. H. and L. D., Philadelphia, Pa. Preparation used to inhibit deposits of scale in cooling water and boiler water systems. Serial No. 451,832; May 26. Class 6.
Blackwood, H. C., doing business as Archer Dental Mfg. & Supply Co., Chicago, Ill. Acrylic denture material. Serial No. 451,738; May 26. Class 44.
Blue Swan Mills, Inc., New York, N. Y. Ladies' and children's underwear. Serial No. 452,002; May 26. Class 39.
Bon Marche, The. (See Allied Stores Corporation.)
Bonwit Teller, Inc., New York, N. Y. Women's and misses' blouses, sweaters, dresses, etc. Serial No. 441,941; May 26 Class 39.
Borden's Dairy & Ice Cream Company, Columbus, Ohio. Ice cream. Serial No. 452,088; May 26. Class 46.
Braun, Geo. P., Company, Chicago, Ill. Vegetable shortening. Serial No. 451,709; May 26. Class 46.
Brennan, William T., doing business as Miner's Medicine Company, Beckley, West Va. Laxative. Serial No. 452,159; May 26. Class 6.
Campbell, D. R., Machine Co., Boston and Mattapan, Mass. Nails. Serial No. 441,694; May 26. Class 13.
Castleton China Incorporated, New York, N. Y. Ceramic table-ware. Serial No. 448,669; May 26. Class 30.
Celotex Corporation, The, Chicago, Ill. Heat insulating building materials. Serial No. 451,133; May 26. Class 12.
Chaffin Optical Company, Inc., Boston, Mass. Optical frames, mountings, lenses, etc. Serial No. 450,393; May 26. Class 26.
Chicago Dietetic Supply House, Inc., Chicago, Ill. Salad dressing. Serial No. 452,096; May 26. Class 46.
Chicago Musical Instrument Co., Chicago, Ill. Toy wind instruments. Serial No. 451,710; May 26. Class 36.
Cisco, Inc., New York, N. Y. Men's mufflers and women's scarfs. Serial No. 451,888; May 26. Class 39.
Cole, William O., Jr., San Francisco, Calif. Orange juice. Serial No. 442,306; May 26. Class 46.
Collins & Aikman Corporation, Philadelphia, Pa., and New York, N. Y. Cotton duck fabrics. Serial No. 451,224; May 26. Class 42.
Cooperative G. L. F. Soil Building Service, Inc., Ithaca, N. Y. Insecticides. Serial No. 451,890; May 26. Class 6.
Crowther, John, & Sons (Milnsbridge) Limited, Yorkshire, England. Men's and boys' suits, jackets, vests, etc. Serial No. 449,827; May 26. Class 39.
Crystal, David, Inc., New York, N. Y. Ladies' and misses' dresses, dress ensembles. Serial No. 452,161; May 26. Class 39.
Curtis Companies Incorporated, Clinton, Iowa. Garage door and parts thereof. Serial No. 451,188; May 26. Class 12.
Day Brothers & Company. (See Allied Stores Corporation.)
Des Moines Glove & Mfg. Co., Inc., Des Moines, Iowa. Golf bags, gloves, bags, etc. Serial No. 450,475; May 26. Class 22.
Durallium Products Corp., Chicago, Ill. Dental alloys, casting material, dental fitting, etc. Serial No. 452,098; May 26. Class 44.
Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Organic chemicals. Serial No. 451,804; May 26. Class 6.
Econoscope Corporation, New York, N. Y. Electrically operated devices adapted to indicate the vertical positions of elevators in their shafts. Serial No. 447,801; May 26. Class 26.
Emery Industries, Inc., Cincinnati, Ohio. Solid fatty bodies such as stearic acid and the like. Serial No. 443,483; May 26. Class 6.
Ferier, Bianchini, Inc., New York, N. Y. Piece goods. Serial Nos. 451,284–5; May 26. Class 42.
Firestone Tire & Rubber Company, The, Akron, Ohio. Caps, coveralls, raincoats for service station attendants, and jackets for general use. Serial No. 449,682; May 26. Class 39.
Fisch and Company, Ltd., Los Angeles, Calif. Portfolios, briefcases, pocketbooks, etc. Serial No. 451,971; May 26. Class 3.
Fischer & Co., Inc., New York, N. Y. Ladies' nightgowns, slips, and panties. Serial No. 451,764; May 26. Class 39.
Flotill Products, Incorporated, Stockton, Calif. Canned tomatoes. Serial No. 449,481; May 26. Class 46.
Foreman Fabrics Corp., New York, N. Y. Cotton, rayon, acetate and/or silk piece goods. Serial No. 448,635; May 26. Class 42.
Hampden Bottling Co., Northampton, Mass. Beverages, sirups and extracts. Serial No. 451,303; May 26. Class 45.
Hart, Schaffner & Marx, Chicago, Ill. Men's and boys' suits, coats, overcoats, etc. Serial No. 451,566; May 26. Class 39.
Heimer Bros., Inc., New York, N. Y. Ladies' handbags and purses. Serial No. 452,043; May 26. Class 3.
Henel Bros. Kenmore Dairy, Inc., Kenmore, N. Y. Milk and cream. Serial No. 442,661; May 26. Class 46.
Hercules Powder Company, Wilmington, Del. Resin for use in varnishes, synthetic resins, inks, etc. Serial No. 450,539; May 26. Class 1.
Hoffmann-La Roche, Inc., Nutley, N. J. Medicinal preparations. Serial No. 451,869; May 26. Class 6.
Holyoke Plastics Inc., Holyoke, Mass. Phonographic records and recording discs. Serial No. 440,415; May 26. Class 36.
Hot-Time Company. (See Palmer, Mark E.)
Hunt Brothers Packing Company, San Francisco, Calif. Canned fruits, canned vegetables. Serial No. 449,992; May 26. Class 46.
Huntington Laboratories, Inc., Huntington, Ind. Soap. Serial No. 450,229; May 26. Class 4.
Independent Music Publishers, New York, N. Y. Photostats, photoprints, and sheet music, etc. Serial No. 450,648; May 26. Class 38.
Kem Manufacturing Company, Inc., New York, N. Y. Automobile fuel pumps, and parts thereof. Serial No. 427,246; May 26. Class 23.
Kenton Hills Porcelains, Inc., Erlanger, Ky. Vases, bowls, cups, etc. Serial No. 450,738; May 26. Class 30.
Kepec Chemical Corporation, Milwaukee, Wis. Tanning agents for use in the leather industry. Serial No. 443,362; May 26. Class 6.
Keystone Broadcasting System, Inc., Chicago, Ill. Electrical transcription and phonograph records. Serial No. 450,801; May 26. Class 36.
King-Kash Furniture Company. (See Lindsay, Marjorie B.)
Knox, W. D., doing business as Printing Art Services Co., Atchison, Kans. Printing plates and parts thereof. Serial No. 438,011; May 26. Class 50.
Kratz, Hans M., doing business as Simplex Electric Caponizer, Chicago, Ill. Electric caponizing apparatus. Serial No. 450,102; May 26. Class 44.
L & L Products, Chicago, Ill. Cleaning powder preparation used for removing rust and like stains. Serial No. 441,824; May 26. Class 4.
Lambert, Frederic, New York, N. Y. Hand cleaner soap powder. Serial No. 448,389; May 26. Class 4.

Larsen Company, The, Green Bay, Wis. Canned mixed vegetables. Serial No. 450,630; May 26. Class 46.
Liebert, Helen, doing business as Liebert Distributors, New York, N. Y. Perfumes, toilet water, face and body powder, etc. Serial No. 451,898; May 26. Class 6.
Lindsay, Marjorie B., doing business as King-Kash Furniture Company. Chairs, sofas, davenports, etc. Serial No. 450,421; May 26. Class 32.
Louis, M. (See Napolitan, Louis.)
Marrow Mfg. Corp., New York, N. Y. Artificial flowers for personal wear. Serial No. 449,980; May 26. Class 40.
Mason, C. B., doing business as As-Bes-Tex, Chicago, Ill. Plastic paint coating. Serial No. 448,976; May 26. Class 16.
Micro Musical Products Corp., New York, N. Y. Mutes for musical instruments. Serial No. 451,472; May 26. Class 36.
Micromatic Hone Corporation, Detroit, Mich. Tool for producing indentations or depressions of predetermined size and configuration in metal surfaces. Serial No. 452,021; May 26. Class 23.
Midvale Company, The, Nicetown, Philadelphia, Pa. Alloy steel. Serial No. 451,238; May 26. Class 14.
Midvale Company, The, Nicetown, Philadelphia, Pa. Alloy steel. Serial No. 451,240; May 26. Class 14.
Miller, Max E., doing business as L. E. Miller Company, New York, N. Y. Paints, paint enamels, and varnishes. Serial No. 448,618; May 26. Class 16.
Miner's, Inc., New York, N. Y. Liquid makeup for the body, particularly the limbs. Serial No. 446,210; May 26. Class 6.
Miner's Medicine Company. (See Brennan, William T.)
Napa & Sonoma Wine Co., San Francisco, Calif. Brandy. Serial No. 450,512; May 26. Class 49.
Napolitan, Louis, doing business as M. Louis, New York, N. Y. Coiffure preserving fluid. Serial No. 450,374; May 26. Class 6.
National Creamery Company, Somerville, Mass. Pickled herring, pickled herring with cream, and pickled herring with wine sauce. Serial No. 449,581; May 26. Class 46.
New England Calendar Company, Boston, Mass. First aid cases. Serial No. 450,141; May 26. Class 2.
New England Collapsible Tube Co., New London, Conn. Special alloy collapsible tubes to be used as a substitute for tin tubes, caps for such collapsible tubes, and cans of collapsible tube type of construction. Serial No. 452,090; May 26. Class 2.
New England Fish Company, Seattle, Wash. Canned tuna fish. Serial No. 424,488; May 26. Class 46.
New York Zoological Society, New York, N. Y. Periodical. Serial No. 451,725; May 26. Class 38.
Palmer, Mark E., doing business as Hot-Time Company, Potosi, Miss. Peanuts, salted popcorn, potato chips, etc. Serial No. 451,937; May 26. Class 46.
Parfums Schiaparelli, Inc., New York, N. Y. Perfumes and toilet waters. Serial Nos. 450,376–7; May 26. Class 6.
Peacock Laboratories, Inc., Philadelphia, Pa. Coating for mirrors, reducing agent for use in the silver spraying of mirrors, etc. Serial No. 449,392; May 26. Class 16.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Curtain, drapery, and upholstery fabrics, etc. Serial No. 448,836; May 26. Class 42.
Pilsen Brewing Company, Chicago, Ill. Beer. Serial No. 451,876; May 26. Class 48.
Ponemah Mills, Taftville, Conn. Cotton and rayon piece goods and balloon cloth. Serial No. 451,242; May 26. Class 42.
Price Flavoring Extract Co., Chicago, Ill. Food flavoring extracts. Serial No. 449,326; May 26. Class 46.
Prince, Earl S., doing business as Prince Castles Company, Sterling, Ill. Box lunches. Serial No. 441,177; May 26. Class 46.
Printing Art Services Co. (See Knox, W. D.)
Procter & Gamble Company, The, Cincinnati, Ohio. Soap. Serial No. 451,181; May 26. Class 4.
Quaker Rubber Corporation, Philadelphia, Pa. Belting, air brake hose, air drill hose, etc. Serial No. 449,586; May 26. Class 35.
Queen Maid Undergarment Co., Inc., Milltown, N. J. Ladies' undergarments. Serial No. 406,193; May 26. Class 39.
Rand Rubber Company, Brooklyn, N. Y. Dress shields. Serial No. 451,018; May 26. Class 40.
Rediffusion, Limited, London, England. Electrical instruments, electrical apparatus, and parts thereof. Serial No. 444,432; May 26. Class 26.
Reeves Brothers, Inc., New York, N. Y. Shirting of twill cloth. Serial No. 449,918; May 26. Class 42.
Reynolds Metals Company, Richmond, Va. Sheets and shapes of aluminum and aluminum alloys. Serial No. 451,504; May 26. Class 14.
Rider, John F., New York, N. Y. Periodical publication. Serial No. 442,460; May 26. Class 38.
Riverside & Dan River Cotton Mills, Inc., Danville, Va., and New York, N. Y. Piece goods of cotton, rayon, and mixtures thereof. Serial Nos. 451,117–18; May 26. Class 42.
Samuels, Albert S., Co., San Francisco, Calif. Finger rings. Serial No. 447,468; May 26. Class 28.
Sanches Romate Hermanos, S. A., Jerez de la Frontera, Spain. Wines. Serial No. 442,462; May 26. Class 47.
Schenley Distilleries, Inc., New York, N. Y. Whiskey, rum, gin, etc. Serial No. 451,739; May 26. Class 49.
Scott, O. M., & Sons Company, Marysville, Ohio. Grass seed. Serial No. 451,657; May 26. Class 1.
Seagram, Joseph E., & Sons, Inc., Lawrenceburg, Ind. Gin and beverages containing gin. Serial No. 451,392; May 26. Class 49.
Selig, M. & Sons, New York, N. Y. Finger rings. Serial No. 446,554; May 26. Class 28.
Siegel, Jacob, Company, Philadelphia, Pa. Men's and young men's topcoats and overcoats. Serial No. 451,859; May 26. Class 39.
Simplex Electric Caponizer. (See Kratz, Hans M.)
Skelly Oil Company, Tulsa, Okla. Gasoline. Serial No. 449,969; published May 26, 1942. Class 15.
Smith, L. C., & Corona Typewriters, Inc., Syracuse, N. Y. Carbon paper. Serial No. 451,509; May 26. Class 11.
Square D Company, Detroit, Mich. Control panels for electric welders. Serial No. 451,274; May 26. Class 21.
Squibb, E. R., & Sons, New York, N. Y. Antiseptic and analgesic preparations. Serial No. 451,944; May 26. Class 6.
Standard Knitting Mills, Inc., Knoxville, Tenn. Underwear for men and boys. Serial No. 452,086; May 26. Class 39.
Stauffer Chemical Company, Inc., San Francisco, Calif., and New York, N. Y. Sulphur. Serial No. 444,241; May 26. Class 6.
Surbrug, John W., Inc., New York, N. Y. Smoking tobacco, cigars, and cigarettes. Serial No. 451,542; May 26. Class 17.
Timm Aircraft Corporation, Van Nuys, Calif. Aeroplanes and aeroplane structural parts. Serial No. 450,035; May 26. Class 19.
Tobler, Ernst & Traber, Inc., New York, N. Y. Woven fabrics for industrial and technical use. Serial No. 450,929; May 26. Class 42.
Trenton Mills, Inc., Trenton, Tenn. Stockinettes, polishing cloth, fleece cloth, etc. Serial No. 449,929; May 26. Class 42.
Turco Products, Inc., Los Angeles, Calif. Compound for cleaning automotive and air craft engine parts and other detergent purposes. Serial No. 450,754; May 26. Class 4.
Union-Feed-Co., San Antonio, Tex. Feeds for poultry. Serial No. 400,541; May 26. Class 46.
Union Feed Co., San Antonio, Tex. Feeds for poultry. Serial No. 430,635; May 26. Class 46.
U. S. Process Corp., New York, N. Y. Chemical compound. Serial No. 451,861; May 26. Class 6.
Val Vita Food Products, Inc., Fullerton, Calif. Canned fruits and vegetables, canned fruit juice, etc. Serial No. 450,700; May 26. Class 46.
Vitapep Products, Inc., Los Angeles, Calif. Vitamin supplement for pets. Serial No. 451,544; May 26. Class 6.
Von Schrader Manufacturing Company, Racine, Wis. Dry cleaning powder for rugs. Serial No. 451,518; May 26. Class 4.
Wegner, Lillian H., Chicago, Ill. Skin lotion. Serial No. 446,713; May 26. Class 6.
Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Speed control mechanisms for gas engines, and the like. Serial No. 449,508; May 26. Class 23.
Wool-Ray Products Corporation, New York, N. Y. Piece goods. Serial No. 451,251; May 26. Class 42.
X-Pando Corporation, Long Island City, N. Y. Cement. Serial No. 451,253; May 26. Class 12.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Shoe Company, North Reading, Mass. Boots, shoes, and slippers. 154,464; renewed Apr. 18, 1942.
Abbott Shoe Company, North Reading, Mass. Boots, shoes, and slippers. 156,974; renewed July 25, 1942.
Allied Stores Corporation, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash. Corsets and brassières. 395,412; May 26; Serial No. 447,553; published Mar. 3, 1942. Class 39.
American Brass Company, The, Waterbury, Conn. Nonferrous metals and alloys. 157,446; renewed Aug. 8, 1942.
American Fastener Company, Waterbury, Conn. Snap fasteners. 158,594; renewed Sept. 12, 1942.
American Lady Corset Company, Detroit, Mich. Corsets, brassières, corset waists, etc. 154,475; renewed Apr. 18, 1942.

American Lumberman, The, Chicago, Ill. Weekly publications. 159,253; renewed Sept. 26, 1942.
American Molasses Company of New York, The, by change of name to American Molasses Company, New York, N. Y. Table sirup. 156,831; renewed July 18, 1942.
American Steel Foundries, Chicago, Ill. Machinery wheels and gears. 156,612; renewed July 11, 1942.
American Tobacco Company, The, New York, N. Y. Tobacco and cigarettes. 155,919; renewed June 13, 1942.
Andrews & Goodrich, Inc., Boston, to Andrews and Goodrich, Inc., Dorchester, Mass. Air-current drying apparatus. 159,257; renewed Sept. 26, 1942.
Apex Dress Co., Inc., New York, N. Y. Ladies', misses', and junior dresses and suits. 395,438; May 26; Serial No. 449,198; published Mar. 10, 1942. Class 39.
Arden Farms Co., Los Angeles, Calif. Dairy products. 395,398; May 26; Serial No. 443,679; published Mar. 17, 1942. Class 46.
Armstrong Cork Company, Lancaster, Pa. Fibrous acoustical insulating material. 395,473; May 26; Serial No. 449,880; published Mar. 17, 1942. Class 12.
Atkins Manufacturing Company, Chicago, Ill. Horsehide, goatskin, etc., jackets and coats. 395,390; May 26; Serial No. 439,034; published Mar. 10, 1942. Class 39.
Ayer, Harriet Hubbard, Inc., New York, N. Y. Lipsticks, rouge, and nail enamel. 395,499; May 26. Class 6.
Ayr Scotch Wools, Incorporated, Green's Farms, Conn. Yarn. 395,429; May 26; Serial No. 448,931; published Mar. 10, 1942. Class 43.
Balfour Guthrie & Co., assignor, by mesne assignments, to Shell Oil Company, Incorporated, San Francisco, Calif. Insecticide spray. 157,305; renewed Aug. 1, 1942.
Bartmann & Bixer, Inc., New York, N. Y. Window curtains. 395,430; May 26; Serial No. 448,996; published Feb. 24, 1942. Class 42.
Bassick Company, The, Bridgeport, Conn. Furniture caster wheels. 395,433; May 26; Serial No. 449,115; published Mar. 17, 1942. Class 13.
Baum, Abby B., Seattle, Wash. Infants' overall sacks. 395,410; May 26; Serial No. 447,088; published Mar. 17, 1942. Class 39.
Beat Heat Co., Chicago, Ill. Tablets for combatting heat exhaustion. 395,524; May 26. Class 6.
Bear Brand Hosiery Co. (See Paramount Knitting Company, assignor.)
Bentley, Fred, Lansing, Mich. Badminton sets. 395,403; May 26; Serial No. 445,570; published Mar. 17, 1942. Class 22.
Berry-Beall Dry Goods Company, by change of name to Berry Dry Goods Company, Fort Smith, Ark. Men's overalls and works shirts. 158,894; renewed Sept. 19, 1942.
Bixby, Ralph, St. Louis, Mo. Canned goods or canned foods. 395,395; May 26; Serial No. 440,616; published Mar. 17, 1942. Class 46.
Block Coal and Coke Company, Inc., Knoxville, Tenn. Coal. 395,417; May 26; Serial No. 448,277; published Mar. 17, 1942. Class 1.
Bon Marche, The. (See Allied Stores Corporation.)
Borden Company, The, New York, N. Y. Label glue. 395,482; May 26; Serial No. 450,174; published Mar. 17, 1942. Class 5.
Breneman, Chas. W., Co., The, Cincinnati, Ohio. Window shade or curtain. 395,507; May 26. Class 32.
Brookhaven Textiles, Inc., New York, N. Y. Piece goods made of cotton, wool, silk, rayon, and/or any combinations thereof. 395,426–7; May 26; Serial Nos. 448,849–50; published Feb. 24, 1942. Class 42.
Brookhaven Textiles, Inc., New York, N. Y. Piece goods in the nature of a corduroy fabric. 395,428; May 26; Serial No. 448,851; published Feb. 24, 1942. Class 42.
Brookhaven Textiles, Inc., New York, N. Y. Piece goods made of cotton, wool, rayon, and/or any combinations thereof. 395,431; May 26; Serial No. 449,000; published Feb. 24, 1942. Class 42.
Brooklyn Shield Co., The, assignor to Rand Rubber Company, Inc., Brooklyn, N. Y. Armpit shields. 20,911; re-renewed Mar. 29, 1942.
Brooklyn Shield Co., assignor to Rand Rubber Company, Inc., Brooklyn, N. Y. Armpit shields. 20,970; renewed Apr. 12, 1942.
Burkart-Schier Chemical Company, Chattanooga, Tenn. Wet processing agents for every textile application. 395,519; May 26. Class 6.
Byer-Rolnick Company, Garland, Tex. Men's hats. 395,456; May 26; Serial No. 449,515; published Mar. 17, 1942. Class 39.
Cantor Greenspan Co., Inc., New York, N. Y. Spun rayon piece goods. 395,481; May 26; Serial No. 450,156; published Mar. 17, 1942. Class 42.
California Milling Corporation, Los Angeles, Calif. Flour. 395,462; May 26; Serial No. 449,637; published Mar. 17, 1942. Class 46.
Cambridge Tile Manufacturing Co., The, Cincinnati, Ohio. Wall tile. 395,439; May 26; Serial No. 449,252; published Mar. 17, 1942. Class 12.
Cantor-Greenspan Co., Inc., also doing business as Labtex Fabrics, New York, N. Y. Rayon piece goods. 395,434; May 26; Serial No. 449,121; published Mar. 17, 1942. Class 42.

Calderon, Victor M., Co. Inc., New York, N. Y. Paprika in its natural state. 395,391; May 26; Serial No. 439,687; published Aug. 12, 1941. Class 46.
California Cotton Oil Company, Los Angeles, to California Cotton Oil Corporation, Vernon, Calif., successor. Cottonseed meal for use as fertilizer. 158,912; renewed Sept. 19, 1942.
Celanese Corporation of America, New York, N. Y. Piece goods made wholly or partially of cellulose derivatives. 395,435; May 26; Serial No. 449,122; published Mar. 3, 1942. Class 42.
Celanese Corporation of America, New York, N. Y. Piece goods made wholly or partially of cellulose derivatives. 395,466; May 26; Serial No. 449,761; published Mar. 10, 1942. Class 42.
Century Radio Co. Inc., Philadelphia, Pa. Record discs and play back and cutting needles. 395,392; May 26; Serial No. 439,961; published Apr. 29, 1941. Class 36.
Chicopee Sales Corporation, New York, N. Y. Cheese cloth and utility cloths, napkins, towels, etc. 395,416; May 26; Serial No. 448,185; published Mar. 10, 1942. Class 42.
Chipman's, Ben, Inc. (See Levene, Ben, Inc., assignor.)
Clements Mfg. Co., Chicago, Ill. Electric suction sweepers. 156,646; renewed July 11, 1942.
Clyde Castings Co., The, Clyde, to The Clyde Castings Co., Fremont, Ohio. Knives and can openers. 154,251; renewed Apr. 11, 1942.
Cohn-Hall-Marx Co., New York, N. Y. Piece goods. 395,393; May 26; Serial No. 440,155; published Apr. 1, 1941. Class 42.
Congress Shirt Company, Boston, Mass. Jackets and parkas. 395,517; May 26. Class 39.
Cowden Manufacturing Company, Kansas City, Mo. Shirt and trouser ensembles, uniforms, overalls, playsuits, etc. 395,515; May 26. Class 39.
Cross, Austin & Ireland Lumber Company, Brooklyn, N. Y. Lumber, plywood, and special millwork. 395,472; May 26; Serial No. 449,852; published Mar. 17, 1942. Class 12.
Daroff, H., & Sons, Inc., Philadelphia, Pa. Men's and young men's suits, topcoats and overcoats. 395,474; May 26; Serial No. 449,897; published Mar. 10, 1942. Class 39.
Dewey, H. T., & Sons Co., New York, N. Y. Medicinal tonic. 154,265; renewed Apr. 11, 1942.
Dieges & Clust, New York, N. Y. Medals and badges, rings, etc. 395,460; May 26; Serial No. 449,602; published Mar. 17, 1942. Class 28.
Dowty Equipment Corporation, New York, N. Y. Aircraft landing gear. 395,400; May 26; Serial No. 445,409; published Mar. 17, 1942. Class 19.
Duluth-Superior Milling Company, Duluth, Minn., and New York, N. Y., assignor to Standard Milling Company, New York, N. Y. Wheat flour. 159,867; renewed Oct. 10, 1942.
Duotone Company, Inc., New York, N. Y. Phonograph needles. 395,448; May 26; Serial No. 449,448; published Mar. 17, 1942. Class 36.
Duotone Company, Inc., New York, N. Y. Phonograph needles. 395,490; May 26; Serial No. 449,450; published Mar. 17, 1942. Class 36.
Eagle Lock Co., Terryville, Conn. Locks, night latches, and padlocks. 159,342; renewed Sept. 26, 1942.
Edison Brothers Stores, Inc., St. Louis, Mo. Shoes. 395,465; May 26; Serial No. 449,672; published Mar. 17, 1942. Class 39.
Edison Brothers Stores, Inc., St. Louis, Mo. Ladies' handbags. 395,509; May 26. Class 3.
Electromatic Distributors, Inc., New York, N. Y. Phonographs. 395,525; May 26. Class 36.
Electro Metallurgical Company, Glen Ferris, W. Va., and Niagara Falls, to Electro Metallurgical Company, New York, N. Y. Ferrous and nonferrous metals and alloys. 159,347; renewed Sept. 26, 1942.
Evans, David G., Coffee Company, St. Louis, Mo. Coffee, tea, spices, etc. 157,055; renewed July 25, 1942.
Fabrics by Joyce, Inc., New York, N. Y. Fabrics. 395,468; May 26; Serial No. 449,795; published Mar. 10, 1942. Class 42.
Farm Feed Manufacturing Company, Litchfield, Minn. Poultry, cattle, and stock feeds. 395,409; May 26; Serial No. 446,795; published Mar. 17, 1942. Class 46.
Fibus, Murray M., doing business as Steel City Manufacturing Co., Youngstown, Ohio. Beverage coolers. 395,510; May 26. Class 31.
Foreman Fabrics Corp., New York, N. Y. Cotton, rayon, acetate and/or silk piece goods. 395,424; May 26; Serial No. 448,637; published Feb. 24, 1942. Class 42.
Forstmann & Huffman Company, assignor, by mesne assignments to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 154,937; renewed May 16, 1942.
Gamewell Fire Alarm Telegraph Company, The, New York, N. Y., assignor to The Gamewell Company, Newton, Mass. Electrical apparatus. 155,690; renewed June 6, 1942.
Garrett Company, assignor to Virginia Dare Extract Company, Inc., Brooklyn, N. Y. Flavoring extracts for food. 155,966; renewed June 13, 1942.
General Baking Company, New York, N. Y. Cake, pastry, biscuits, etc. 159,357; renewed Sept. 26, 1942.

Giltin, H. A., & Co., New York, N. Y. Lining fabrics. 395,441; May 26; Serial No. 449,320; published Mar. 17, 1942. Class 42.

Gleitsman Chopp & Sadowsky, Inc., New York, N. Y. Blouses, skirts and combinations thereof. 395,502; May 26. Class 39.

Glemby Company, Inc., The, New York, N. Y. Hair nets. 395,500; May 26. Class 39.

Gooch Food Products Company, Lincoln, Nebr. Flour. 395,444; May 26; Serial No. 449,371; published Mar. 17, 1942. Class 46.

Gordon & Co., London, England, assignor by mesne assignments to Gordon's Dry Gin Company, Limited, Linden, N. J., and New York, N. Y. Liquors and cordials. 21,734; re-renewed Sept. 13, 1942.

Goshen Veneer Co., Goshen, Ind. Wood veneers of the nature of laminated wood bonded by thermoplastics. 395,476; May 26; Serial No. 449,991; published Mar. 17, 1942. Class 12.

Gross, A., Candle Company, Inc., Baltimore, Md. Candles, votive, sanctuary, and tabernacle lights. 395,458; May 26; Serial No. 449,576; published Mar. 17, 1942. Class 15.

Ideal Bath Robe Co., Inc., Brooklyn, N. Y. Infants' bath robes. 157,687; renewed Aug. 15, 1942.

Irwin, Robert W., Company, Grand Rapids, Mich. Upholstery, drapery, and curtain fabrics, blankets, carpets, etc. 395,423; May 26; Serial No. 447,520; published Feb. 24, 1942. Class 42.

Hecker-Jones-Jewell Milling Company, assignor to Standard Milling Company, New York, N. Y. Prepared flour. 159,397; renewed Oct. 10, 1942.

Hess Goldsmith & Co., Inc., New York, N. Y. Textile fabrics. 395,461; May 26; Serial No. 449,608; published Mar. 10, 1942. Class 42.

Holmes & Zucker, Inc., New York, N. Y. Cotton, rayon, acetate and/or silk piece goods. 395,457; May 26; Serial No. 449,550; published Mar. 3, 1942. Class 42.

Huffman Full Fashioned Mills, Inc., Morganton, N. C. Ladies' hosiery. 395,488; May 26; Serial No. 450,279; published Mar. 17, 1942. Class 39.

Houston, Sam, Brokerage Co., Birmingham, Ala. Insecticides. 395,511; May 26. Class 6.

Hunter, Robert L., Norfolk, Va. Flash lights, searchlights, and spot lights. 155,721; renewed June 6, 1942.

Jacobson, F., & Sons, Inc., New York, N. Y. Men's shirts. 395,406; May 26; Serial No. 445,945; published Mar. 10, 1942. Class 39.

Jaeger, Oswald, Baking Company, Milwaukee, Wis. Breads and pastry. 155,501; renewed May 30, 1942.

Jim Dale Parkway Clothes, Inc., New York, N. Y. Suits, topcoats and overcoats. 395,508; May 26. Class 39.

Jones, James A., Wynnburg, assignor to James A. Jones, Yorkville, Tenn. Medicinal preparation. 154,305; renewed Apr. 11, 1942.

Juvenile Shoe Corporation of America, The, Carthage, Mo., to The Juvenile Shoe Corporation of America, Aurora and St. Louis, Mo. Boots and shoes. 158,468; renewed Sept. 5, 1942.

Kellogg, M. W., Company, The, Jersey City, N. J., and New York, N. Y. Insulating block. 395,413; May 26; Serial No. 447,782; published Mar. 17, 1942. Class 12.

Kentucky Looms, Inc., The, Louisville, Ky. Scarf headpiece. 395,501; May 26. Class 39.

Kerry Cricket Inc., St. Louis, Mo. Dresses, skirts, jackets, etc. 395,401; May 26; Serial No. 445,498; published Mar. 17, 1942. Class 39.

King's Tavern, Reading, Ohio. Packaged meals. 395,450; May 26; Serial No. 449,489; published Mar. 17, 1942. Class 46.

Keystone Steel & Wire Company, to Keystone Steel & Wire Company, Peoria, Ill. Wire fencing and barb wire. 159,398; renewed Sept. 26, 1942.

Labtex Fabrics. (See Cantor-Greenspan Co., Inc.)

Lamar Slide Fastener Corporation, New York, N. Y. Slide fasteners. 395,513; May 26. Class 13.

Levene, Ben, Inc., assignor, by mesne assignments, to Chas. Chipman's Sons Co., Inc., New York, N. Y. Ladies' hosiery. 154,606; renewed Apr. 18, 1942.

Lieberman Shoe Corporation, Brooklyn, N. Y. Ladies' shoes. 395,483; May 26; Serial No. 450,208; published Mar. 17, 1942. Class 39.

Liebmanns, S., Sons Inc., New York, and Brooklyn, assignor to Liebmann Breweries, Inc., Brooklyn, N. Y. Malt soft drink. 159,414; renewed Sept. 26, 1942.

Liebovitz, S., & Sons, Inc. (See Sonny Blouse Co., Inc., assignor.)

Lockport Cotton Batting Co., Lockport, N. Y. Wool batting or wool batts. 395,415; May 26; Serial No. 448,154; published Mar. 17, 1942. Class 1.

Lola Hat, Inc., New York, N. Y. Ladies' hats. 395,408; May 26; Serial No. 446,699; published Mar. 17, 1942. Class 39.

Lucas, John, and Company, Incorporated, Philadelphia, Pa. Insecticides and fungicides. 395,522; May 26. Class 6.

Mass & Kemper, Inc., assignor to J. Schoeneman, Inc., Baltimore, Md. Middy blouses, children's dresses, and boys' wash suits. 158,007; renewed Aug. 22, 1942.

MacIntosh, Chas., & Company, Limited, Manchester, England. Garments and articles of dress, coats, raincoats, etc. 395,402; May 26; Serial No. 445,552; published Mar. 10, 1942. Class 39.

Marshall Field & Company, Chicago, Ill. Lace curtains. 395,405; May 26; Serial No. 445,924; published Feb. 24, 1942. Class 42.

Marshall Field & Company, Chicago, Ill. Dish towels and toweling in the piece. 395,420; May 26; Serial No. 448,607; published Feb. 24, 1942. Class 42.

Marshall Field & Company, Chicago, Ill. Sheets and sheeting in the piece, pillow cases, and tubing, blankets of cotton, etc. 395,421; May 26; Serial No. 448,608; published Feb. 24, 1942. Class 42.

Marshall Field & Company, Chicago, Ill. Dish towels. 395,422; May 26; Serial No. 448,610; published Feb. 24, 1942. Class 42.

Marshall Field & Company, Chicago, Ill. Lace curtains. 395,440; May 26; Serial No. 449,255; published Mar. 3, 1942. Class 42.

Marshall Field & Company, Chicago, Ill. Women's handbags. 395,492; May 26; Serial No. 450,477; published Mar. 17, 1942. Class 3.

Massachusetts Chemical Company, Boston, Mass. Powder for cleaning cesspools, drains, sinks, wash stands, etc. 395,523; May 26. Class 6.

Matouk, John, Inc., New York, N. Y. Cotton and rayon fabrics in the piece. 395,469; May 26; Serial No. 449,801; published Mar. 10, 1942. Class 42.

McCullough, J. Chas., Seed Company, The, Cincinnati, Ohio. Uncooked popcorn. 395,388; May 26; Serial No. 438,078; published Apr. 15, 1941. Class 46.

Meinecke & Company, New York, N. Y. Surgeon's gloves, clinical thermometers, wood applicators, etc. 395,528; May 26. Class 44.

Miller, Doris, Inc., New York, N. Y. Ladies' underwear. 395,488; May 26; Serial No. 450,282; published Mar. 17, 1942. Class 39.

Mueller, Carl, doing business as Mueller Specialty Mfg. Co., Chicago, Ill. Metal pipe fittings. 395,491; May 26; Serial No. 450,337; published Mar. 17, 1942. Class 13.

Munro, Robert W., Cynwyd, Pa. Simulated bowling games played with darts. 395,463; May 26; Serial No. 449,651; published Mar. 17, 1942. Class 22.

Nancy Ann Dressed Dolls, Inc., San Francisco, Calif. Dolls and dolls' clothes. 395,451–2; May 26; Serial Nos. 449,492–3; published Mar. 17, 1942. Class 22.

Nancy Ann Dressed Dolls, Inc., San Francisco, Calif. Dolls and dolls' clothes. 395,453–5; May 26; Serial Nos. 449,495–7; published Mar. 17, 1942. Class 22.

National Automatic Tool Company, Inc., Richmond, Ind. Drilling, reaming, and tapping machines. 155,264; renewed May 23, 1942.

National Lead Company, New York, N. Y. Mica product. 395,399; May 26; Serial No. 444,974; published Mar. 17, 1942. Class 12.

Nason, R. N., & Co., San Francisco, Calif. Stencils, stencil paper, paper letters, figures and designs for stencils. 395,527; May 26. Class 37.

Nebraska Consolidated Mills Co., Grand Island, to Nebraska Consolidated Mills Co., Omaha, Nebr. Wheat flour. 159,456; renewed Sept. 26, 1942.

Neville Company, The, Pittsburgh and Neville Island, Pa. Paste-type paint and varnish remover. 395,514; May 26. Class 16.

Newman, I., & Sons, Inc., New Haven, assignor to I. Newman & Sons, Inc., New Haven, Conn., and New York, N. Y. Corsets. 154,641; renewed Apr. 18, 1942.

Newmark, Samuel F., doing business as Reingold Hosiery Co., New York, N. Y. Hosiery. 395,497; May 26. Class 39.

New York Pressing Machinery Corporation, New York, N. Y. Gas and steam pressing irons, including underpressers and parts thereof. 395,496; May 26. Class 24.

Northwestern Yeast Company, Chicago, Ill. Yeast. 395,477; May 26; Serial No. 449,998; published Mar. 17, 1942. Class 46.

Norwich Knitting Company, Norwich, N. Y. Men's and children's sweat shirts and polo shirts. 395,404; May 26; Serial No. 445,666; published Mar. 10, 1942. Class 39.

Olmito Packing Company, Brownsville, Tex. Canned fruits, canned vegetables, canned tomatoes, etc. 395,395; May 26; Serial No. 441,684; published June 10, 1941. Class 46.

Palatine Dyeing Company, Inc., St. Johnsville, N. Y. Piece goods of cotton, rayon, and so on. 395,414; May 26; Serial No. 448,086; published Feb. 24, 1942. Class 42.

Paramount Knitting Company, Chicago, assignor to Bear Brand Hosiery Co., Kankakee and Chicago, Ill. Hosiery. 154,651; renewed Apr. 18, 1942.

Peacock Laboratories, Inc., Philadelphia, Pa. Liquid adhesive, and a mastic type cement. 395,445; May 26; Serial No. 449,389; published Mar. 17, 1942. Class 5.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Cotton, rayon, and/or woolen piece goods, mattress protectors and covers, bedspreads, sheets, etc. 395,425; May 26; Serial No. 448,838; published Feb. 24, 1942. Class 42.

Perfect Circle Company, The, Hagerstown, Ind. Piston rings. 395,407; May 26; Serial No. 446,215; published Mar. 17, 1942. Class 35.

Pepsodent Co., The, Chicago, Ill. Toothbrushes and toothbrush bristles. 395,446; May 26; Serial No. 449,395; published Mar. 3, 1942. Class 29.

Petrol Corporation, The, Los Angeles, Calif. Petroleum products—namely, lubricating oil. 395,442; May 26; Serial No. 449,354; published Mar. 3, 1942. Class 15.

Petrol Corporation, The, Los Angeles, Calif. Petroleum products—namely, grease. 395,443; May 26; Serial No. 449,355; published Mar. 3, 1942. Class 15.

Pharis Tire and Rubber Company, The, Newark, Ohio. Tires and tubes. 395,494; May 26; Serial No. 450,545; published Mar. 17, 1942. Class 35.

Philadelphia Quartz Company, Philadelphia, Pa. Pamphlets, booklets, or leaflets. 157,560; renewed Aug. 8, 1942.

Philco Corporation, Philadelphia, Pa. Flowing brushes and pencil brushes. 395,436; May 26; Serial No. 449,154; published Mar. 3, 1942. Class 29.

Phillips, Doup & Co. Inc., Brooklyn and New York, to Phillips, Doup & Co., Lindenhurst, N. Y. Vehicles. 154,129; renewed Apr. 4, 1942.

Pied Piper Shoe Co., Wausau, Wis. Growing girls' shoes. 395,504; May 26. Class 39.

Pincus & Tobias, Inc., New York, N. Y. Ladies' shoes. 395,464; May 26; Serial No. 449,652; published Mar. 17, 1942. Class 39.

Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Ladies' surgical corsets. 395,512; May 26. Class 44.

Porete Mfg. Company, Newark, to Porete Mfg. Co., North Arlington, N. J. Siding, roofing, etc., building slabs. 159,741; renewed Oct. 3, 1942.

Premier Textile Corp., New York, N. Y. Shirts, sweaters, pants, caps, hosiery, bathrobes, bathing suits, slips, etc. 395,503; May 26. Class 39.

Proven Prescription Pharmacists, Missoula, Mont. Dental powder. 395,495; May 26. Class 6.

Puritan Cordage Mills, Louisville, Ky. Mop yarn. 395,485–6; May 26; Serial Nos. 450,245–6; published Mar. 17, 1942. Class 43.

Quaker Oats Company, The, Chicago, Ill. Soup mixture. 395,487; May 26; Serial No. 450,248; published Mar. 17, 1942. Class 46.

Rand Rubber Company, Inc. (See Brooklyn Shield Co., The, assignor.)

Raven, W., & Co. Limited, Leicester, England. Men's half hose, anklet and slack socks, etc. 395,411; May 26; Serial No. 447,467; published Mar. 10, 1942. Class 39.

Raybestos-Manhattan, Inc., Passaic, N. J. Clutch facings. 395,505; May 26. Class 35.

Reingold Hosiery Co. (See Newmark, Samuel F.)

Rose Brothers, New York, N. Y. Men's and young men's topcoats, trousers, etc. 395,418; May 26; Serial No. 448,459; published Mar. 10. 1942. Class 39.

Rubber Products, Inc., Chicago, Ill. Rubber forms used in the display of wearing apparel. 395,389; May 26; Serial No. 438,630; published Mar. 17, 1942. Class 50.

Rubon Woodfinishing and Products Company, Kansas City, Mo. Floor mops, dusters and dust cloths. 395,475; May 16; Serial No. 449,922; published Mar. 17, 1942. Class 29.

Rutland Fire Clay Co., Rutland, Vt. Crack filler, stovepipe paint enamel and tinner's red roof paint. 159,079; renewed Sept. 19, 1942.

Russell, F. C., Company, The, Cleveland, Ohio. Combination screen and storm windows. 395,470; May 26; Serial No. 449,809; published Mar. 17, 1942. Class 12.

S. B. Novelty Co. Inc., New York, N. Y. Toy doll baths. 395,396; May 26; Serial No. 442,567; published Mar. 17, 1942. Class 22.

Salomon, Fred B., doing business as Stein & Salomon, Chicago, Ill. Ladies' and misses' coats and suits. 395,432; May 26; Serial No. 449,022; published Mar. 17, 1942. Class 39.

Samson Cordage Works, Boston, Mass. Cord and twine. 155,073; renewed May 16, 1942.

Scarborough Testing Gardens, Inc., Scarborough, N. Y. Seed germinating box or container. 395,397; May 2; Serial No. 442,568; published Mar. 17, 1942. Class 50.

Schneider & Armitage, New York, N. Y. Woolen piece goods. 395,467; May 26; Serial No. 449,782; published Mar. 10, 1942. Class 42.

Schoeneman, J., Inc. (See Maass & Kemper, Inc., assignor.)

Schluderberg, William, -T. J. Kurdle Co., The, Baltimore, Md. Lards. 154,807; renewed May 9, 1942.

Schram, William S., Chicago, Ill. Pajamas. 395,459; May 26; Serial No. 449,589; published Mar. 10, 1942. Class 39.

Seed Filter & Mfg. Co., Inc., New York, N. Y. Antisplash water filters. 159,513; renewed Sept. 26, 1942.

Seligmann, Eric, New York, N. Y. Cloth measuring machine. 395,521; May 26. Class 26.

Seminole Manufacturing Company, Columbus, Miss. Men's and boys' work and dress trousers. 395,419; May 26; Serial No. 448,530; published Mar. 10, 1942. Class 39.

Shell Oil Company, Incorporated. (See Balfour Guthrie & Co., assignor.)

Shirley Silk Co., Inc., New York, N. Y. Textile fabrics. 395,471; May 26; Serial No. 449,810; published Mar. 17, 1942. Class 42.

Simmons, O. H., Inc., New York, N. Y. Liquid preparation for the skin. 395,520; May 26. Class 6.

Singer Manufacturing Company, The, Elizabeth, N. J., and New York, N. Y., to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machines, their parts, and attachments. 155,081; renewed May 16, 1942.

Smart Maid Coat Co., Inc., New York, N. Y. Misses', juniors' and children's coats. 395,484; May 26; Serial No. 450,214; published Mar. 10, 1942. Class 39.

Sonny Blouse Co. Inc., The, assignor to S. Liebovitz & Sons, Inc., New York, N. Y. Clothing. 159,106; renewed Sept. 19, 1942.

Standard Milling Company. (See Duluth-Superior Milling Company, assignor.)

Standard Milling Company. (See Hecker-Jones-Jewell Milling Company, assignor.)

Stanley Home Products, Inc., Westfield, Mass. Mops. 395,478; May 26; Serial No. 450,033; published Mar. 17, 1942. Class 29.

Steel City Manufacturing Co. (See Fibus, Murray M.)

Stein & Salomon. (See Salomon, Fred B.)

Stix, Baer and Fuller Company, St. Louis, Mo. Ladies' and misses' shoes. 395,480; May 26; Serial No. 450,147; published Mar. 17, 1942. Class 39.

Sturtevant, B. F., Company, Boston, Mass. Centrifugal fans. 155,096; renewed May 16, 1942.

Sturtevant, B. F., Company, Boston, Mass. Centrifugal fans. 156,762; renewed July 11, 1942.

Superior Felt & Bedding Company, Chicago, Ill. Mattresses. 395,493; May 26; Serial No. 450,497; published Mar. 17, 1942. Class 32.

Trimfoot Company, St. Louis, Mo. Arch supports. 395,526; May 26. Class 44.

TruVal Manufacturers, Inc., New York, N. Y. Men's and young men's wearing apparel. 395,498; May 26. Class 39.

Turner & Walls, assignor, by mesne assignments, to Albert H. Vandam Co., Inc., New York, N. Y. Shirtings in the piece. 159,773; renewed Oct. 3, 1942.

Ubiko Milling Company, The, St. Bernard, Ohio. Dairy ration. 160,032; renewed Oct. 10, 1942.

United States Plywood Corporation, New York, N. Y. Laminated constructions and plywood panels and sheets. 395,437; May 26; Serial No. 449,195; published Mar. 3, 1942. Class 12.

Utica Knitting Company, Utica, N. Y. Men's knitted underwear. 395,490; May 26; Serial No. 450,323; published Mar. 17, 1942. Class 39.

Valentine Laboratories, Inc., Chicago, Ill. Cod liver oil. 395,518; May 26. Class 6.

Vandam, Albert H., Co., Inc. (See Turner & Walls, assignor.)

Virginia Dare Extract Company, Inc. (See Garrett & Company, assignor.)

Western Auto Supply Company, Kansas City, Mo. Motor oils. 395,447; May 26; Serial No. 449,400; published Mar. 17, 1942. Class 15.

Western Auto Supply Company, Los Angeles, Calif. Ready mixed paints, pastes, and enamels. 395,506; May 26. Class 16.

Westinghouse Air Brake Company, The, Wilmerding, Pa. Packings for pistons. 395,479; May 26; Serial No. 450,084; published Mar. 17, 1942. Class 35.

Wilson-Imperial Company, Newark, N. J. Washing compound. 155,564; renewed May 30, 1942.

Winget Manufacturing Co., The, by change of name to Winget Knickernick Company, Minneapolis, Minn. Bloomers, children's coveralls, and sleeping garments. 158,867; renewed Sept. 12, 1942.

Winslow Engineering Co., Oakland, Calif. Oil filters, parts thereof, and cartridges therefor. 395,516; May 26. Class 31.

Wooster Brush Company, The, Wooster, Ohio. Brushes. 157,405; renewed Aug. 1, 1942.

Wooster Brush Company, The, Wooster, Ohio. Brushes. 159,596–7; renewed Sept. 26, 1942.

Worumbo Manufacturing Company, Bath, to Worumbo Manufacturing Company, Lisbon Falls, Maine. Woolen goods. 159,789; renewed Oct. 3, 1942.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Batting or wool batts, Wool. Lockport Cotton Batting Co. 395,415; May 26; Serial No. 448,154; published Mar. 17, 1942.

Coal. Block Coal and Coke Company. 395,417; May 26; Serial No. 448,277; published Mar. 17, 1942.

CLASS 3

Handbags, Ladies'. Edison Brothers Stores, Inc. 395,509; May 26.

Handbags, Women's. Marshall Field & Company. 395,492; May 26; Serial No. 450,477; published Mar. 17, 1942.

CLASS 4

Washing compound. Wilson-Imperial Company. 155,564; renewed May 30, 1942.

CLASS 5

Adhesive and a mastic type cement, Liquid. Peacock Laboratories, Inc. 395,445; May 26; Serial No. 449,389; published Mar. 17, 1942.
Glue, Label. Borden Company. 395,482; May 26; Serial No. 450,174; published Mar. 17, 1942.

CLASS 6

Agents for every textile application, Wet processing. Burkart-Schier Chemical Company. 395,519; May 26.
Cod liver oil. Valentine Laboratories, Inc. 395,518; May 26.
Dental powder. Proven Prescription Pharmacists. 395,495; May 26.
Insecticides. Sam Houston Brokerage Co. 395,511; May 26.
Insecticides and fungicides. John Lucas and Company. 395,522; May 26.
Lipsticks, rouge and nail enamel. Harriet Hubbard Ayer. 395,499; May 26.
Medicinal preparation. J. A. Jones. 154,305; renewed Apr. 11, 1942.
Powder for cleaning cesspools, drains, sinks, wash stands, etc. Massachusetts Chemical Company. 395,523; May 26.
Preparation for the skin, Liquid. O. H. Simmons, Inc. 395,520; May 26.
Spray, Insecticide. Balfour Guthrie & Co. 157,305; renewed Aug. 1, 1942.
Tablets for combatting heat exhaustion. Beat Heat Co. 395,524; May 26.
Tonic, Medicinal. H. T. Dewey & Sons Co. 154,265; renewed Apr. 11, 1942.

CLASS 7

Cord and twine. Samson Cordage Works. 155,073; renewed May 16, 1942.

CLASS 10

Cottonseed meal for use as a fertilizer. California Cotton Oil Company. 158,912; renewed Sept. 19, 1942.

CLASS 12

Building slabs, Siding, roofing, etc. Porete Mfg. Company. 159,741; renewed Oct. 3, 1942.
Caster wheels, Furniture. Bassick Company. 395,433; May 26; Serial No. 449,115; published Mar. 17, 1942.
Insulating block. M. W. Kellogg Company. 395,413; May 26; Serial No. 447,782; published Mar. 17, 1942.
Insulating material, Fibrous acoustical. Armstrong Cork Company. 395,473; May 26; Serial No. 449,880; published Mar. 17, 1942.
Laminated constructions and plywood panels and sheets. United States Plywood Corporation. 395,437; May 26; Serial No. 449,195; published Mar. 3, 1942.
Lumber, plywood, and special millwork. Cross, Austin & Ireland Lumber Company. 395,472; May 26; Serial No. 449,852; published Mar. 17, 1942.
Mica product. National Lead Company. 395,399; May 26; Serial No. 444,974; published Mar. 17, 1942.
Tile, Wall. Cambridge Tile Manufacturing Co. 395,439; May 26; Serial No. 449,252; published Mar. 17, 1942.
Windows, Combination screen and storm. F. C. Russell Company. 395,470; May 26; Serial No. 449,809; published Mar. 17, 1942.
Wood veneers of the nature of laminated wood bonded by thermoplastics. Goshen Veneer Co. 395,476; May 26; Serial No. 449,991; published Mar. 17, 1942.

CLASS 13

Fasteners, Slide. Lamar Slide Fastener Corporation. 395,513; May 26.
Fencing and barb wire, Wire. Keystone Steel & Wire Company. 159,398; renewed Sept. 26, 1942.

CLASS 14

Fittings, Metal pipe. C. Mueller. 395,491; May 26; Serial No. 450,337; published Mar. 17, 1942.
Metals and alloys, Nonferrous. American Brass Company. 157,446; renewed Aug. 8, 1942.
Metals and alloys, Ferrous and nonferrous. Electro Metallurgical Company. 159,347; renewed Sept. 26, 1942.

CLASS 15

Candles, votive, sanctuary, and tabernacle lights. A. Gross Candle Company. 395,458; May 26; Serial No. 449,576; published Mar. 17, 1942.
Oils, Motor. Western Auto Supply Company. 395,447; May 26; Serial No. 449,400; published Mar. 17, 1942.
Petroleum products—namely, lubricating oil. Petrol Corporation. 395,442; May 26; Serial No. 449,354; published Mar. 3, 1942.
Petroleum products—namely, grease. Petrol Corporation. 395,443; May 26; Serial No. 449,355; published Mar. 3, 1942.

CLASS 16

Filler, stovepipe paint enamel, etc., Crack. Rutland Fire Clay Co. 159,079; renewed Sept. 19, 1942.
Paint and varnish remover, Paste-type. Neville Company. 395,514; May 26.
Paints, pastes, and enamels, Ready mixed. Western Auto Supply Company. 395,506; May 26.

CLASS 17

Tobacco and cigarettes. American Tobacco Company. 155,919; renewed June 13, 1942.

CLASS 19

Aircraft landing gear. Dowty Equipment Corporation. 395,400; May 26; Serial No. 445,409; published Mar. 17, 1942.
Vehicles. Phillips, Doup & Co. Inc. 154,129; renewed Apr. 4, 1942.

CLASS 21

Electrical apparatus. Gamewell Fire Alarm Telegraph Company. 155,690; renewed June 6, 1942.
Flash lights, searchlights, and spot lights. R. L. Hunter. 155,721; renewed June 6, 1942.
Sweepers, Electric suction. Clements Mfg. Co. 156,646; renewed July 11, 1942.

CLASS 22

Badminton sets. F. Bentley. 395,403; May 26; Serial No. 445,570; published Mar. 17, 1942.
Dolls and dolls' clothes. Nancy Ann Dressed Dolls, Inc. 395,451–2; May 26; Serial Nos. 449,492–3; published Mar. 17, 1942.
Dolls and dolls' clothes. Nancy Ann Dressed Dolls, Inc. 395,453–5; May 26; Serial Nos. 449,495–7; published Mar. 17, 1942.
Bowling games played with darts, Simulated. R. W. Munro. 395,463; May 26; Serial No. 449,651; published Mar. 17, 1942.
Toy doll baths. S. B. Novelty Co. Inc. 395,396; May 26; Serial No. 442,567; published Mar. 17, 1942.

CLASS 23

Drilling, reaming, and tapping machines. National Automatic Tool Company. 155,264; renewed May 23, 1942.
Drying apparatus, Air-current. Andrews & Goodrich, Inc. 159,257; renewed Sept. 26, 1942.
Fans, Centrifugal. B. F. Sturtevant Company. 155,096; renewed May 16, 1942.
Fans, Centrifugal. B. F. Sturtevant Company. 156,762; renewed July 11, 1942.
Knives and can openers. Clyde Castings Co. 154,251; renewed Apr. 11, 1942.
Sewing machines, their parts, and attachments. Singer Manufacturing Company. 155,081; renewed May 16, 1942.
Wheels and gears, Machinery. American Steel Foundries. 156,612; renewed July 11, 1942.

CLASS 24

Irons and parts thereof, Gas and steam pressing. New York Pressing Machinery Corporation. 395,496; May 26.

CLASS 25

Locks, night latches, and padlocks. Eagle Lock Co. 159,342; renewed Sept. 26, 1942.

CLASS 26

Cloth measuring machine. E. Seligmann. 395,521; May 26.

CLASS 28

Medals and badges, rings, etc. Dieges & Clust. 395,460; May 26; Serial No. 449,602; published Mar. 17, 1942.

CLASS 29

Brushes. Wooster Brush Company. 157,405; renewed Aug. 1, 1942.
Brushes. Wooster Brush Company. 159,596–7; renewed Sept. 26, 1942.
Brushes, Flowing and pencil. Philco Corporation. 395,436; May 26; Serial No. 449,154; published Mar. 3, 1942.
Toothbrushes and toothbrush bristles. Pepsodent Co. 395,446; May 26; Serial No. 449,395; published Mar. 3, 1942.
Mops, dusters, and dust cloths, Floor. Rubon Woodfinishing and Products Company. 395,475; May 26; Serial No. 449,922; published Mar. 17, 1942.
Mops. Stanley Home Products, Inc. 395,478; May 26; Serial No. 450,033; published Mar. 17, 1942.

CLASS 31

Coolers, Beverage. M. M. Fibus. 395,510; May 26.
Filters, parts thereof, and cartridges, therefor, Oil. Winslow Engineering Co. 395,516; May 26.
Filters, Antisplash water. Seed Filter & Mfg. Co. 159,513; renewed Sept. 26, 1942.

CLASS 32

Mattresses. Superior Felt & Bedding Company. 395,493; May 26; Serial No. 450,497; published Mar. 17, 1942.
Shade or curtain, Window. Chas. W. Breneman Co. 395,507; May 26, 1942.

CLASS 35

Clutch facings. Raybestos-Manhattan, Inc. 395,505; May 26.
Packings for pistons. Westinghouse Air Brake Company. 395,479; May 26; Serial No. 450,084; published Mar. 17, 1942.
Piston rings. Perfect Circle Company. 395,407; May 26; Serial No. 446,215; published Mar. 17, 1942.
Tires and tubes. Pharis Tire and Rubber Company. 395,494; May 26; Serial No. 450,545; published Mar. 17, 1942.

CLASS 36

Phonographs. Electromatic Distributors, Inc. 395,525; May 26.
Phonograph needles. Duotone Company. 395,448; May 26; Serial No. 449,448; published Mar. 17, 1942.
Phonograph needles. Duotone Company. 395,449; May 26; Serial No. 449,450; published Mar. 17, 1942.
Record discs and play back and cutting needles. Century Radio Co. Inc. 395,392; May 26; Serial No. 439,961; published Apr. 29, 1941.

CLASS 37

Stencils, stencil paper, paper letters, figures and designs for stencils. R. N. Nason & Co. 395,527; May 26.

CLASS 38

Pamphlets, booklets, or leaflets. Philadelphia Quartz Company. 157,560; renewed Aug. 8, 1942.
Publications, Weekly. American Lumberman. 159,253; renewed Sept. 26, 1942.

CLASS 39

Apparel, Men's wearing. TruVal Manufacturers, Inc. 395,498; May 26.
Bloomers, children's coveralls, and sleeping garments. Winget Manufacturing Co. 158,867; renewed Sept. 12, 1942.
Blouses, children's dresses, and boys' washsuits, Middy. Maass & Kemper, Inc. 158,007; renewed Aug. 22, 1942.
Blouses, skirts and combinations thereof. Gleitsman Chopp & Sadowsky, Inc. 395,502; May 26.
Boots, shoes, and slippers. Abbott Shoe Company. 154,464; renewed Apr. 18, 1942.
Boots, shoes and slippers. Abbott Shoe Company. 156,974; renewed July 25, 1942.
Boots and shoes. Juvenile Shoe Corporation of America. 158,468; renewed Sept. 5, 1942.
Clothing. Sonny Blouse Co. Inc. 159,106; renewed Sept. 19, 1942.
Coats, Misses', juniors' and children's. Smart Maid Coat Co. 395,484; May 26; Serial No. 450,214; published Mar. 10, 1942.
Coats and suits, Ladies' and misses'. F. B. Salomon. 395,432; May 26; Serial No. 449,022; published Mar. 17, 1942.
Corsets. I. Newman & Sons. 154,641; renewed Apr. 18, 1942.
Corsets and brassières. Allied Stores Corporation. 395,412; May 26; Serial No. 447,553; published Mar. 3, 1942.
Corsets, brassières, corset waists, etc. American Lady Corset Company. 154,475; renewed Apr. 18, 1942.
Dresses, skirts, jackets, etc. Kerry Cricket Inc. 395,401; May 26; Serial No. 445,498; published Mar. 17, 1942.
Garments and articles of dress, coats, raincoats, etc. Chas MacIntosh & Company. 395,402; May 26; Serial No. 445,552; published Mar. 10, 1942.
Hair nets. Glemby Company. 395,500; May 26.
Hats, Ladies'. Lola Hat, Inc. 395,408; May 26; Serial No. 446,699; published Mar. 17, 1942.
Hats, Men's. Byer-Rolnick Company. 395,456; May 26; Serial No. 449,515; published Mar. 17, 1942.
Hose, anklet and slack socks, etc. Men's half. W. Raven & Co. Limited. 395,411; May 26; Serial No. 447,467; published Mar. 10, 1942.
Hosiery. S. F. Newmark. 395,497; May 26.
Hosiery. Paramount Knitting Company. 154,651; renewed Apr. 18, 1942.
Hosiery, Ladies'. Ben Levene Inc. 154,606; renewed Apr. 18, 1942.
Hosiery, Ladies'. Huffman Full Fashioned Mills, Inc. 395,488; May 26; Serial No. 450,279; published Mar. 17, 1942.
Jackets, and coats, Horsehide, goatskin, etc. Atkins Manufacturing Company. 395,390; May 26; Serial No. 439,034; published Mar. 10, 1942.
Jackets and parkas. Congress Shirt Company. 395,517; May 26.
Dresses and suits, Ladies', misses', and junior. Apex Dress Co. 395,438; May 26; Serial No. 449,198; published Mar. 10, 1942.
Overall sacks, Infants'. A. B. Baum. 395,410; May 26; Serial No. 447,088; published Mar. 17, 1942.
Overalls and work shirts, Men's. Berry-Beall Dry Goods Company. 158,894; renewed Sept. 19, 1942.
Pajamas. W. S. Schram. 395,459; May 26; Serial No. 449,589; published Mar. 10, 1942.
Robes, Infants' bath. Ideal Bath Robe Co. Inc. 157,687; renewed Aug. 15, 1942.
Scarf headpiece. Kentucky Looms. 395,501; May 26.
Shirt and trouser ensembles, uniforms, overalls, playsuits, etc. Cowden Manufacturing Company. 395,515; May 26.
Shirts, Men's. F. Jacobson & Sons, Inc. 395,406; May 26; Serial No. 445,945; published Mar. 10, 1942.
Shirts and polo shirts, Men's and children's sweat. Norwich Knitting Company. 395,404; May 26; Serial No. 445,666; published Mar. 10, 1942.
Shirts, sweaters, pants, caps, hosiery, bathrobes, bathing suits, slips, etc. Premier Textile Corp. 395,503; May 26.
Shoes. Edison Brothers Stores, Inc. 395,465; May 26; Serial No. 449,672; published Mar. 17, 1942.
Shoes, Growing girls'. Pied Piper Shoe Co. 395,504; May 26.
Shoes, Ladies'. Lieberman Shoe Corporation. 395,483; May 26; Serial No. 450,208; published Mar. 17, 1942.
Shoes, Ladies'. Pincus & Tobias, Inc. 395,464; May 26; Serial No. 449,652; published Mar. 17, 1942.
Shoes, Ladies' and misses. Stix, Baer and Fuller Company. 395,480; May 26; Serial No. 450,147; published Mar. 17, 1942.
Suits, topcoats and overcoats, Men's and young men's. H. Daroff & Sons, Inc. 395,474; May 26; Serial No. 449,897; published Mar. 10, 1942.
Suits, topcoats, and overcoats. Jim Dale Parkway Clothes, Inc. 395,508; May 26.
Topcoats, trousers, etc., Men's and young men's. Rose Brothers. 395,418; May 26; Serial No. 448,459; published Mar. 10, 1942.
Trousers, Men's and boys' work and dress. Seminole Manufacturing Company. 395,419; May 26; Serial No. 448,530; published Mar. 10, 1942.
Underwear, Ladies'. Doris Miller, Inc. 395,488; May 26; Serial No. 450,282; published Mar. 17, 1942.
Underwear, Men's knitted. Utica Knitting Company. 395,490; May 26; Serial No. 450,323; published Mar. 17, 1942.

CLASS 40

Fasteners, Snap. American Fastener Company. 158,594; renewed Sept. 12, 1942.
Shields, Armpit. Brooklyn Shield Co. 20,970; re-renewed Apr. 12, 1942.
Shields, Armpit. Brooklyn Shield Co. 20,911; re-renewed Mar. 29, 1942.

CLASS 42

Cheese cloth and utility cloths, napkins, towels, etc. Chicopee Sales Corporation. 395,416; May 26; Serial No. 448,185; published Mar. 10, 1942.
Cotton, rayon, acetate, and/or silk piece goods. Foreman Fabrics Corp. 395,424; May 26; Serial No. 448,637; published Feb. 24, 1942.
Cotton, rayon, acetate, and/or silk piece goods. Holmes & Zucker Inc. 395,457; May 26; Serial No. 449,550; published Mar. 3, 1942.
Cotton and rayon fabrics in the piece. John Matouk. Inc. 395,469; May 26; Serial No. 449,801; published Mar. 10, 1942.
Cotton, rayon, etc., piece goods, mattress protectors, and covers, sheets, etc. J. C. Penney Company. 395,425; May 26; Serial No. 448,838; published Feb. 24, 1942.
Curtains, Lace. Marshall Field & Company. 395,405; May 26; Serial No. 445,924; published Feb. 24, 1942.
Curtains, Lace. Marshall Field & Company. 395,440; May 26; Serial No. 449,255; published Mar. 3, 1942.
Curtains, Window. Bartmann & Bixer, Inc. 395,430; May 26; Serial No. 448,996; published Feb. 24, 1942.
Fabrics. Fabrics by Joyce, Inc. 395,468; May 26; Serial No. 449,795; published Mar. 10, 1942.
Fabrics, Lining. H. A. Gitlin & Co. 395,441; May 26; Serial No. 449,320; published Mar. 17, 1942.
Rayon piece goods. Cantor-Greenspan Co. 395,434; May 26; Serial No. 449,121; published Mar. 17, 1942.
Rayon piece goods, Spun. Cantor-Greenspan Co. 395,481; May 26; Serial No. 450,156; published Mar. 17, 1942.
Piece goods. Cohn-Hall-Marx. 395,393; May 26; Serial No. 440,155; published Apr. 1, 1941.
Piece goods in the nature of a corduroy fabric. Brookhaven Textiles, Inc. 395,428; May 26; Serial No. 448,851; published Feb. 24, 1942.
Piece goods of cotton, rayon, and so on. Palatine Dyeing Company, Inc. 395,414; May 26; Serial No. 448,086; published Feb. 24, 1942.
Piece goods made of cotton, wool, rayon, etc. Brookhaven Textiles, Inc. 395,431; May 26; Serial No. 449,000; published Feb. 24, 1942.
Piece goods made of cotton, wool, silk, etc. Brookhaven Textiles, Inc. 395,426–7; May 26; Serial Nos. 448,849–50; published Feb. 24, 1942.
Piece goods made wholly or partially of cellulose derivatives. Celanese Corporation of America. 395,435; May 26; Serial No. 449,122; published Mar. 3, 1942.
Piece goods made wholly or partially of cellulose derivatives. Celanese Corporation of America. 395,466; May 26; Serial No. 449,761; published Mar. 10, 1942.

Woolen goods. Worumbo Manufacturing Company. 159,789; renewed Oct. 3, 1942.
Woolen piece goods. Forstmann & Huffman Company. 154,937; renewed May 16, 1942.
Woolen piece goods. Schneider & Armitage. 395,467; May 26; Serial No. 449,782; published Mar. 10, 1942.
Sheets and sheeting in the piece, pillow cases and tubing, blankets, etc. Marshall Field & Company. 395,421; May 26; Serial No. 448,608; published Feb. 24, 1942.
Shirtings in the piece. Turner & Walls. 159,773; renewed Oct. 3, 1942.
Textile fabrics. Shirley Silk Co. 395,471; May 26; Serial No. 449,810; published Mar. 17, 1942.
Textile fabrics. Hess Goldsmith & Co. Inc. 395,461; May 26; Serial No. 449,608; published Mar. 10, 1942.
Towels, Dish. Marshall Field & Company. 395,422; May 26; Serial No. 448,610; published Feb. 24, 1942.
Towels and toweling in the piece, Dish. Marshall Field & Company. 395,420; May 26; Serial No. 448,607; published Feb. 24, 1942.
Upholstery, drapery, and curtain fabrics, blankets, carpets, etc. Robert W. Irwin Company. 395,423; May 26; Serial No. 447,520; published Feb. 24, 1942.

CLASS 43

Yarn. Ayr Scotch Wools, Incorporated. 395,429; May 26; Serial No. 448,931; published Mar. 10, 1942.
Yarn, Mop. Puritan Cordage Mills. 395,485–6; May 26; Serial Nos. 450,245–6; published Mar. 17, 1942.

CLASS 44

Arch supports. Trimfoot Company. 395,526; May 26.
Surgeon's gloves, clinical thermometers, paper handkerchiefs, paper mortuary gowns, wood applicators, wood tongue blades, hypodermic syringes, bed and douche pans, and rubber sheeting. Meinicke & Company. 395,528; May 26.
Surgical corsets. Plymouth Wholesale Dry Goods Corporation. 395,512; May 26.

CLASS 46

Breads and pastry. Oswald Jaeger Baking Company. 155,501; renewed May 30, 1942.
Cake, pastry, biscuits, etc. General Baking Company. 159,357; renewed Sept. 26, 1942.
Canned fruits, vegetables, tomatoes, etc. Olmito Packing Company. 395,395; May 26; Serial No. 441,684; published June 10, 1941.
Canned goods or canned foods. R. Bixby. 395,394; May 26; Serial No. 440,616; published Mar. 17, 1942.
Coffee, tea, spices, etc. David G. Evans Coffee Company. 157,055; renewed July 25, 1942.
Dairy products. Arden Farms Co. 395,398; May 26; Serial No. 443,679; published Mar. 17, 1942.
Dairy ration. Ubiko Milling Company. 160,032; renewed Oct. 10, 1942.
Extracts for food, Flavoring. Garrett & Company. 155,966; renewed June 13, 1942.
Feeds, Poultry, cattle, and stock. Farm Feed Manufacturing Company. 395,409; May 26; Serial No. 446,795; published Mar. 17, 1942.
Flour. California Milling Corporation. 395,462; May 26; Serial No. 449,637; published Mar. 17, 1942.
Flour. Gooch Food Products Company. 395,444; May 26; Serial No. 449,371; published Mar. 17, 1942.
Flour, Prepared. Hecker-Jones-Jewell Milling Company. 159,897; renewed Oct. 10, 1942.
Flour, Wheat. Duluth-Superior Milling Company. 159,867; renewed Oct. 10, 1942.
Flour, Wheat. Nebraska Consolidated Mills Co. 159,456; renewed Sept. 26, 1942.
Lards. William Schluderberg-T. J. Kurdle Co. 154,807; renewed May 9, 1942.
Meals, Packaged. King's Tavern. 395,450; May 26; Serial No. 449,489; published Mar. 17, 1942.
Paprika in its natural state. Victor M. Calderon Co. Inc. 395,391; May 26; Serial No. 439,687; published Aug. 12, 1941.
Popcorn, Uncooked. J. Chas. McCullough Seed Company. 395,388; May 26; Serial No. 438,078; published Apr. 15, 1941.
Sirup, Table. American Molasses Company of New York. 156,831; renewed July 18, 1942.
Soup mixture. Quaker Oats Company. 395,487; May 26; Serial No. 450,248; published Mar. 17, 1942.
Yeast. Northwestern Yeast Company. 395,477; May 26; Serial No. 449,998; published Mar. 17, 1942.

CLASS 48

Malt soft drink. S. Liebmanns Sons Inc. 159,414; renewed Sept. 26, 1942.

CLASS 49

Liquors and cordials. Gordon & Co. 21,734; re-renewed Sept. 13, 1942.

CLASS 50

Forms used in the display of wearing apparel, Rubber. Rubber Products, Inc. 395,389; May 26; Serial No. 438,630; published Mar. 17, 1942.
Seed germinating box or container. Scarborough Testing Gardens, Inc. 395,397; May 26; Serial No. 442,568; published Mar. 17, 1942.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 26TH DAY OF MAY, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Brace, Kemper P., South Bend, Ind., and R. B. P. Crawford, Athens, Ga. Reversed cycle heating system. Re. 22,100; May 26.
Crawford, Robert B. P. (See Brace, K. P., and Crawford, assignors.)
Fruehauf Trailer Company. (See Reid, Frederick M., assignor.)
Harvey, Robert L., Collingswood, N. J., assignor to Radio Corporation of America. Magnetically tuned high frequency circuits. Re. 22,103; May 26.
Holste, Merrill R., St. Paul, Minn., assignor to United States Rubber Company, New York, N. Y. Liquid jacketed aviator's garment. Re. 22,101; May 26.
Radio Corporation of America. (See Harvey, Robert L., assignor.)
Reid, Frederick M., assignor to Fruehauf Trailer Company, Detroit, Mich. Heavy duty vehicle. Re. 22,102; May 26.
United States Rubber Company. (See Holste, Merrill R., assignor.)

LIST OF PLANT PATENTEES

Armstrong Nurseries. (See Lammerts, Walter E., assignor.)
Armstrong Nurseries, Inc. (See Morris, Theodore J., assignor.)
Armstrong Nurseries, Inc. (See Swim, Herbert C., assignor.)
General Nurseries Company, The. (See Schmidt, Paul J., assignor.)
Horvath, Michael H., Mentor, Ohio. Rose. 518; May 26.
Lammerts, Walter E., assignor to Armstrong Nurseries, Inc., Ontario, Calif. Rose plant. 521; May 26.
Lammerts, Walter E., assignor to Armstrong Nurseries, Inc., Ontario, Calif. Rose plant. 522; May 26.
Morris, Theodore J., San Fernando, assignor to Armstrong Nursuries, Inc., Ontario, Calif. Rose plant. 523; May 26.
Schmidt, Paul J., Youngstown, assignor to The General Nurseries Company, Painesville, Ohio. Buddleia. 519; May 26.
Swim, Herbert C., assignor to Armstrong Nurseries, Inc., Ontario, Calif. Rose plant. 524; May 26.
Tuttle, H. Lynn. (See Wahl, Albert W., assignor.)
Wahl, Albert W., assignor to H. L. Tuttle, Clarkston, Wash. Peach tree. 520; May 26.

LIST OF DESIGN PATENTEES

American Coach & Body Company, The. (See Kelleher, D., and Troche, assignors.)
Bates, C. J., & Son. (See Slingsby, Ernest W., assignor.)
Bernstein, Edward H., Melrose Park, assignor to L. P. Weil, Philadelphia, Pa. Cigarette dispenser. 132,568; May 26.
Boutemy, Annette, New York, N. Y. Textile fabric. 132,582; May 26.
Boutemy, Annette, New York, N. Y. Textile fabric. 132,583; May 26.
Bradley, Claude A., assignor to Handy Hangers Corporation, Reno, Nev. Garment hanger. 132,540; May 26.
Bulbulian, Arthur H., Rochester, Minn. Aviator's oxygen mask or similar article. 132,544; May 26.
Bulbulian, Arthur H., Rochester, Minn. Aviator's oxygen mask or similar article. 132,545; May 26.
Cain, Chester M., Amarillo, Tex. Combined washing machine and wringer. 132,572; May 26.
Carr, Dixey B., New York, N. Y. Glass display case for decorative purposes. 132,556; May 26.
Chernow, Michael, New York, N. Y. Brooch or similar article. 132,531; May 26.
Clements, William T., Charlotte, N. C. Smoking pipe. 132,561; May 26.
Cohn & Rosenberger, Inc. (See Katz, Adolph, assignor.)
Cowan, Jeanie, executrix. (See Cowan, John.)
Cowan, John, deceased, by J. Cowan, executrix, Belmont, Mass. Golf club head. 132,553; May 26.
Crew, Morris W., Cleveland, and C. H. Morrow, Shaker Heights, assignors to The Hotstream Heater Company, Cleveland, Ohio. Draft controlling device. 132,570; May 26.
Cushing, George W., Newark, N. J., assignor to Krakauer Bros., New York, N. Y. Piano. 132,541; May 26.
Davidson Manufacturing Corporation. (See Davidson, W. W., and (Scholl, assignor).)
Davidson, William W., Evanston, and H. S. Scholl, Glen Ellyn; said Scholl assignor to Davidson Manufacturing Corporation, Chicago, Ill. Duplicating machine or similar article. 132,574; May 26.
Davidson, William W., Evanston, and H. S. Scholl, Glen Ellyn; said Scholl assignor to Davidson Manufacturing Corporation, Chicago, Ill. Duplicating machine or similar article. 132,575; May 26.
Diehl, George M., Pleasantville, N. J. Picture carrying service plaque. 132,546; May 26.
Dreyfuss, Henry, New York, N. Y., assignor to The S. S. White Dental Manufacturing Company. Adjustable chair. 132,542; May 26.
Eaton Metal Products Company. (See Turner, Lon D., assignor.)
Fields, Minna, New York. N. Y. Dress. 132,557; May 26.
Fuerst, Edwin W., and C. W. Sawyer, assignors to Libbey Glass Company, Toledo, Ohio. Urn. 132,522; May 26.
Gerstenzang, Abraham, New York, N. Y. Earring or similar article. 132,523; May 26.
Goldman, Barney, New York, N. Y. Embroidered fabric. 132,576; May 26.
Gottfried Company, The. (See Gottfried, Emil H., assignor.)
Gottfried, Emil H., Shaker Heights, assignor to The Gottfried Company, Cleveland, Ohio. Applique for wearing apparel. 132,547; May 26.
Handy Hangers Corporation. (See Bradley, Claude A., assignor.)
Hettrick Manufacturing Company, The. (See Smith, William L., assignor.)
Hoffmann, Edward C., University City, assignor to Triple "E" Products Company, St. Louis, Mo. Pencil sharpener. 132,577; May 26.
Hotstream Heater Company, The. (See Crew, M. W., and Morrow, assignors.)
Houdaille-Hersbey Corporation. (See Walker, George W.)
Jeffrey, Max L., Shaker Heights, Ohio. Counter. 132,548; May 26.
Jordan, Armando I., Habana, Cuba. Hair curler. 132,549; May 26.
Junkunc, Andrew W., Chicago, Ill. Combination cabinet and table. 132,532; May 26.
Kaplan, Max, New York, N. Y. Lapel pin or similar article. 132,554; May 26.
Katz, Adolph, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y. Brooch or similar article. 132,524; May 26.
Katz, Adolph, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y. Earring or similar article. 132,525; May 26.
Katz, Adolph, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y. Jewelry finding. 132,526; May 26.
Katz, Adolph, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y. Brooch or similar article. 132,527; May 26.
Keirle, Paula R., St. Louis, Mo. Shampoo pan. 132,562; May 26.
Kelleher, Daniel, Strongsville, and H. J. Troche, Cleveland Heights, assignors to American Coach & Body Company, Cleveland, Ohio. Stirrup pump. 132,533; May 26.
Krakauer Bros. (See Cushing, George W., assignor.)
Landis, Milton J., New York, N. Y. Brooch or similar article. 132,573; May 26.
Lewin, Jacob W., Chicago, Ill. Electrical floor outlet box. 132,563; May 26.

Libbey Glass Company. (See Fuerst, E. W., and Sawyer, assignors.)
Libbey Glass Company. (See Sawyer, Charles W., assignor.)
Lichter, Joseph A., Norwalk, Conn. Handbag frame. 132,534; May 26.
Lindfelt, Edward C., Des Moines, Iowa. Ski mitt. 132,564; May 26.
Lynch, John F., Dorchester, Mass. Lapel button or similar article. 132,535; May 26.
Mattucci, Anthony O., Oak Park, Ill. Cocktail table. 132,518; May 26.
Mattucci, Anthony O., Oak Park, Ill. Table. 132,519; May 26.
Metal Specialties Manufacturing Co. (See Nyberg, Curt E., assignor.)
Morrow, Clarence H. (See Crew, M. W., and Morrow, assignors.)
Mutual Buying Syndicate, Inc. (See Radcliffe, Alberta M., assignor.)
Nyberg, Curt E., assignor to Metal Specialties Manufacturing Co., Chicago, Ill. Staple remover. 132,578; May 26.
Phillips, Anna, New York, N. Y. Vestee with detachable collar. 132,579; May 26.
Phillips, Anna, New York, N. Y. Vestee with detachable collar. 132,580; May 26.
Phillips, Anna, New York, N. Y. Vestee with removable dickey. 132,581; May 26.
Radcliffe, Alberta M., Forest Hills, assignor to Mutual Buying Syndicate, Inc., New York, N. Y. Textile fabric or similar article. 132,584; May 26.
Rhodes, Gilbert J., New York, N. Y. Fire extingusher blanket. 132,536; May 26.
Rhodes, Gilbert J., New York, N. Y. Fire extinguisher blanket. 132,537; May 26.
Sawyer, Charles W. (See Fuerst, E. W., and Sawyer, assignors.)
Sawyer, Charles W., assignor to Libbey Glass Company, Toledo, Ohio. Candle holder. 132,565; May 26.
Sawyer, Charles W., assignor to Libbey Glass Company, Toledo, Ohio. Vase. 132,559; May 26.
Sawyer, Charles W., assignor to Libbey Glass Company, Toledo, Ohio. Vase. 132,560; May 26.
Scheinpflug, Arno, Woodside, N. Y. Numeral set of candle holders. 132,571; May 26.
Scholl, Harry S. (See Davidson, W. W., and Scholl.)
Schwarber, Henry, Weehawken, N. J. Embroidered lace medallion. 132,538; May 26.
Scifres, Thomas W., Crossett, Ark. Protractor level. 132,550; May 26.
Seltzer, Murray, New York, N. Y. Handbag. 132,543; May 26.
Slingsby, Ernest W., Deep River, assignor to C. J. Bates & Son, Chester, Conn. Display cabinet for knitting needles, crochet hooks, or the like. 132,551; May 26.
Smith, Arthur E., Los Angeles, Calif. Syringe. 132,555; May 26.
Smith, William I., Goshen, Ind., assignor to The Hettrick Manufacturing Company, Toledo, Ohio. Glider. 132,521; May 26.
Stephens, Robert C., Covington, Ky. Banner or similar article. 132,528; May 26.
Straus, Mitteldorfer, Richmond, Va. Box or similar article. 132,585; May 26.
Swedlin, Jacob, Brooklyn, N. Y. Mask for stuffed toys or similar articles. 132,509; May 26.
Swedlin, Jacob, Brooklyn, N. Y. Mask for stuffed toys or similar articles. 132,510; May 26.
Swedlin, Jacob, Brooklyn, N. Y. Stuffed toy or similar article. 132,511; May 26.
Swedlin, Jacob, Brooklyn, N. Y. Stuffed toy or similar article. 132,512; May 26.
Swedlin, Jacob, Brooklyn, N. Y. Stuffed toy or similar article. 132,513; May 26.
Swedlin, Jacob, Brooklyn, N. Y. Stuffed toy or similar article. 132,514; May 26.
Swedlin, Jacob, Brooklyn, N. Y. Stuffed toy or similar article. 132,515; May 26.
Swedlin, Jacob, Brooklyn, N. Y. Mask for stuffed toys or similar articles. 132,516; May 26.
Tomasini, Peter T., Sunnyside, N. Y. Cycloplane. 132,520; May 26.
Triple "E" Products Company. (See Hoffmann, Edward C., assignor.)
Troche, Herman J. (See Kelleher, D., and Troche.)
Troffkin, Rubin, New York, N. Y. Suit. 132,566; May 26.
Turner, Lon D., assignor to Eaton Metal Products Company, Denver, Colo. Liquid gas tank. 132,569; May 26.
Vivaudou, Jean E., New York, N. Y. Sachet. 132,567; May 26.
Walker, George W., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Automobile bumper or similar article. 132,552; May 26.
Walker, Joset, New York, N. Y. Dress. 132,558; May 26.
Ware, Walter M., Philadelphia, Pa. Lawn sprinkler. 132,539; May 26.
Weil, Lewis P. (See Bernstein, Edward H., assignor.)
Weinberg, Sol, New York, N. Y. Textile fabric. 132,517; May 26.
White, S. S., Dental Manufacturing Company. (See Dreyfuss, Henry, assignor.)
Wolff, Alfred, New York, N. Y. Ensign or similar article. 132,529; May 26.
Zentner, Marianne, Brooklyn, N. Y. Cooky. 132,530; May 26.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 26TH DAY OF MAY, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

A. B. A. Specialties Company. (See Fridolph, Annette, assignor.)
Acly, Harry M., Pittsfield, Mass., assignor to General Electric Company. Breather. 2,284,354; May 26.
Acme Newspictures, Inc. (See Thompson, Louis A., assignor.)
Adams, Christopher N., Galt, Calif. Self-leveling scraper blade. 2,284,550; May 26.
Advance Aluminum Castings Corporation. (See Funk, James M., assignor.)
Aeroil Burner Company, The. (See Glass, John P., assignor.)
Air Reduction Company, Incorporated. (See McKiernan, James D., assignor.)
Akron Brass Manufacturing Company. (See Grant, J. W., and Hunt, assignors.)
Albany Felt Company. (See Gordon, Carlton C., assignor.)
Alexander, Peter P., Marblehead, Mass. Packing of powdered metal. 2,284,551; May 26.
Alford, Andrew, New York, N. Y., assignor, by mesne assignments, to International Telephone & Radio Manufacturing Corporation. Antenna system. 2,283,897; May 26.
Allegheny Ludlum Steel Corporation. (See Batcheller, Clements, assignor.)
Allen, Joseph W., assignor to Eclipse Aviation Corporation, East Orange, N. J. Driving mechanism. 2,284,353; May 26.
Allquist, John W., Rome, Ga., assignor to Tubize Chatillon Corporation, New York, N. Y. Process and apparatus for winding filaments. 2,284,244; May 26.
Altschule, Herman, assignor to Utility Electric Corp., East Newark, N. J. Multiple fuse. 2,284,599; May 26.
Altschule, Herman, assignor to Utility Electric Corp., East Newark, N. J. Multiple fuse. 2,284,600; May 26.
Alvord, Charles C. (See Flygare, C. G., and Alvord.)
American Binder Company. (See Arnold, R. W., and Scheinman, assignors.)
American Cyanamid Company. (See Brooks, Benjamin T., assignor.)
American Cyanamid Company. (See Ericks, Walter P., assignor.)
American Cyanamid Company. (See Hill, William H., assignor.)
American Cyanamid Company. (See Schroy, Paul C., assignor.)
American Cyanamid Company. (See Wintringham, A. C., and King, assignors.)
American District Telegraph Company, The. (See Lindsay, Maxwell H. A., assignor.)
American Enka Corporation. (See Breazeale, Francis B., assignor.)
American Enka Corporation. (See Kriek, Peter P., assignor.)
American Enka Corporation. (See Lely, A., and Eeninkwinkel, assignors.)
American Optical Compan. (See Wrighton, W. J., and Jarrett, assignors.)
American Steel and Wire Company, The. (See Marquart, Frank, assignor.)
American Steel and Wire Company, The. (See Morrisey, Joseph V., assignor.)
American Steel Foundries. (See Baselt, W. H., and Tack, assignors.)
American Sterilizer Company, The. (See Comper, A., and Bartholomew, assignors.)
American Telephone and Telegraph Company. (See Bagnall, Vernon B., assignor.)
American Telephone and Telegraph Company. (See Green, E. I., and Monk, assignors.)
American Telephone and Telegraph Company. (See Klabunde, Henry W., assignor.)
American Telephone and Telegraph Company. (See Lesti, Arnold, assignor.)
American Telephone and Telegraph Company. (See Muench, E. J., and Greene, assignors.)
American Telephone and Telegraph Company. (See Roberts, Charles W., assignor.)
American Voith Contact Co. Inc. (See Lang, Richard T., assignor.)
Anderson, Eric, assignor to Superb Case Mfg. Co., Providence, R. I. Container and picture holder. 2,284,355; May 26.
Arenberg, Albert L., Highland Park, assignor to Patent License Corporation, Chicago, Ill. Luggage rack with built-in lighting fixtures. 2,284,356; May 26.
Arenz, Albert N., La Crosse, Wis. Boot rack. 2,284,552; May 26.
Arico, Salvatore, New Orleans, La. Identification device. 2,283,898; May 26.
Armour and Company. (See Ralston, A. W., and McCorkle, assignors.)
Arnold, Edwin E., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Turbine blading. 2,283,901; May 26.
Arnold, Roy W., and S. Scheinman, White Plains, assignors to American Binder Company, New York, N. Y. Display device for photo prints or the like. 2,284,031; May 26.
Art Metal Construction. (See Johnson, C. A., and Greenfield, assignors.)
Ash, Charles S., Milford, Mich. Dual wheeled vehicle. 2,284,357; May 26.
Ashcraft, Joseph P., Dallas, Tex., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Valve. 2,283,903; May 26.
Atwood Machine Company. (See Winslow, Albert E., assignor.)
Automatic Shifters, Inc. (See Baade, Henry, assignor.)
Automatic Voting Machine Corporation. (See Gustavson, Alvin M., assignor.)
Aviation Corporation, The. (See Lampton, G. T., Hackethal and Briggs, assignors.)
Ayers, Allyn L., Oakland, Calif. Multiple axle mounting for trailers. 2,284,245; May 26.
Baade, Henry, Detroit, Mich., assignor to Automatic Shifters, Inc., Richmond, Va. Gear shifting mechanism. 2,284,246; May 26.
Babcock & Wilcox Company, The. (See Shellenberger, R., and Freeman, assignors.)
Backoff, William J., N. D. Williams, J. F. O'Loughlin, Harry L. Moir and J. S. Yule, assignors to The Pure Oil Company, Chicago, Ill. Motor fuel adjuvant. 2,284,080; May 26.
Baer, Howard E., Garfield, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starting mechanism. 2,284,358; May 26.
Bagnall, Vernon B., West Orange, N. J., assignor to American Telephone and Telegraph Company. Radio signaling system. 2,284,247; May 26.
Baker, Chester L., Penn Wynne, and C. H. Dedrick, Drexel Hill, assignors to Philadelphia Quartz Company, Philadelphia, Pa. Manufacture of shaped particles of hydrous alkali metal silicates. 2,284,248; May 26.
Baker, Claude M., Winnetka, assignor of one-half to J. V. Wescott, and one-half to F. W. Wescott, both of Chicago, Ill. Pipe clamp. 2,283,899; May 26.
Baker Perkins Inc. (See Yablonski, Leon, assignor.)
Baldwin Locomotive Works, The. (See Moody, Lewis F., assignor.)
Ball, Charles F., Wauwatosa, and L. G. Hilkemeier, assignors to Chain Belt Company, Milwaukee, Wis. Boom swing mechanism for concrete mixers. 2,284,249; May 26.
Ball, Charles F., Wauwatosa, and L. G. Hilkemeier, assignors to Chain Belt Company, Milwaukee, Wis. Interlocking mechanism for power transmissions. 2,284,250; May 26.
Ball, Charles F., Wauwatosa, and L. G. Hilkemeier, assignors to Chain Belt Company, Milwaukee, Wis. Clutch shifting mechanism. 2,284,251; May 26.
Ballard, Seaver A., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Hydrohalogenation of unsaturated hydrocarbons. 2,284,467; May 26.
Barbee, Robert W. (See Dillman, K. W., and Barbee.)
Barnett, Maxwell M., Port Sulphur, La., assignor to Freeport Sulphur Company, New York, N. Y. Producing resins of the sulphur dioxide-olefin type. 2,283,900; May 26.
Barnhart, George E., Pasadena, Calif. Remotely controlled gun mount. 2,284,611; May 26.
Barr and Stroud, Limited. (See French, James W., assignor.)
Barreda, Julian C., Flushing, and H. J. McLaughlin, Brooklyn, N. Y. Liquid dispensing device. 2,284,252; May 26.
Barry, Howard, Brooklyn, N. Y. Display device. 2,283,908; May 26.
Bartholomew, Rudolph A. (See Comper, A., and Bartholomew.)
Baselt, Walter H., and C. E. Tack, assignors to American Steel Foundries, Chicago, Ill. Rotor brake. 2,284,253; May 26.
Bastian-Blessing Company. (See Buttner, William C., assignor.)
Bastian-Blessing Company. (See De Stefani, Tully, assignor.)

Batcheller, Clements, Glens Falls, N. Y., assignor to Allegheny Ludlum Steel Corporation. Treating composite strip products. 2,284,254; May 26.
Baumgarden, Edwin F., Blissfield, Mich. Jiffy milk cooler. 2,283,904; May 26.
Baureschmidt, Frank W., Galena Park, assignor to Larsen-Boles Tool Company, Incorporated, Houston, Tex. Choke. 2,284,255; May 26.
Beal, James F., assignor to The Bryant Electric Company, Bridgeport, Conn. Switch handle. 2,283,905; May 26.
Bean, Arthur W. (See Lowe, V. J., and Bean.)
Beard, L. O., Tool Company. (See Keen, Charles A., assignor.)
Be-Ge Manufacturing Company. (See Gurries, Albert G., assignor.)
Beggs, Alan H., Montclair, assignor to The Palnut Company, Inc., Irvington, N. J. Lock nut. 2,284,081; May 26.
Behrman, Harry P., St. Albans, and M. Behrman, Brooklyn, N. Y. Self-attached spring for key holding hooks. 2,284,507; May 26.
Behrman, Morris. (See Behrman, Harry P., and Morris.)
Belchetz, Arnold, Kew Gardens, and D. K. Finlayson, Hartsdale, N. Y., assignors to The M. W. Kellogg Company, Jersey City, N. J. The catalytic conversion of hydrocarbons. 2,284,603; May 26.
Bell Aircraft Corporation. (See Hall, Benjamin F., assignor.)
Bell Aircraft Corporation. (See Hineman, George L., assignor.)
Bell Telephone Laboratories, Incorporated. (See Black, Harold S., assignor.)
Bell Telephone Laboratories, Incorporated. (See Gray, Frank, assignor.)
Bell Telephone Laboratories, Incorporated. (See King, Archie P., assignor.)
Bell Telephone Laboratories, Incorporated. (See Manley, J. M., and Wrathall, assignors.)
Bell Telephone Laboratories, Incorporated. (See Mason, Warren P., assignor.)
Bell Telephone Laboratories, Incorporated. (See Peterson, Eugene, assignor.)
Bell Telephone Laboratories, Incorporated. (See West, John W., assignor.)
Bellows, Brian C., Jr., Orange, N. J., assignor to General Electric Company. Coffee maker. 2,284,359; May 26.
Bench, David E., M. A. Crosby, and G. J. Wintermute, Dayton, Ohio, assignors to Commonwealth Engineering Corporation, Wilmington, Del. Side loading hearse mechanism. 2,284,116; May 26.
Bench, David E. (See Crosby, M. A., and Bench.)
Bendix Aviation Corporation. (See Baer, Howard E., assignor.)
Bendix Aviation Corporation. (See Briechle, A., Hurley and Merritt, assignors.)
Bendix Aviation Corporation. (See Kearney, Daniel P., assignor.)
Bendix Aviation Corporation. (See Nardone, Romeo M., assignor.)
Bendix Home Appliances, Inc. (See Gilbert, Russell C., assignor.)
Bendix Home Appliances, Inc. (See Oliver, Wallace F., assignor.)
Bennett, John, Passaic, N. J. Paper waxing machine. 2,284,553; May 26.
Bennett, Richard, Phoenix, Ariz. Sewage meter. 2,283,906; May 26.
Benrath, Paul J., La Grange, Ill. Card game. 2,284,256; May 26.
Berby, Ola L., assignor to Clyde Iron Works, Duluth, Minn. Extendible builder's tower. 2,284,360; May 26.
Bergmann, Richard F. (See Torrence, G. P., Bergmann, and Kneubusch.)
Bergman, Robert L., and H. Evans, Brooklyn, N. Y. Match package. 2,284,032; May 26.
Bergström, John E., Halmstad, Sweden. Device for feeding rods or tubes in grinding machines or the like. 2,284,257; May 26.
Berk, Abraham A. (See Schroeder, W. C., and Berk.)
Berman, Philip, New York, N. Y. Hydraulic circulator. 2,283,907; May 26.
Berry, Norton E., Summit, N. J., assignor to General Foods Corporation, New York, N. Y. Treating green coffee. 2,284,033; May 26.
Bert, Samuel D., assignor of one-third to M. A. Yorkin, and one-third to J. D. Martin, Washington, Pa. Glass-forming machine. 2,284,508; May 26.
Best, Cyril, Deptford, London, assignor to Molins Machine Company Limited, London, England. Treatment of cigarettes. 2,284,117; May 26.
Beyerstedt, Fred J., Plainfield, N. J., assignor to Standard Oil Development Company. Condensation catalysts of increased activity and producing the same. 2,284,554; May 26.
Biletz, Frank Y., Philadelphia, Pa. Bookcase end table. 2,284,361; May 26.
Binkowski, Andrew, Lansing, Mich. Expanding fish-hook. 2,284,034; May 26.
Birmann, Rudolph, Newtown, Pa., assignor to De Laval Steam Turbine Company, Trenton, N. J. Reversible drive. 2,284,362; May 26.
Black, Harold S., Elmhurst, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 2,284,555; May 26.
Blaettler, Paul X. (See Ferla, John, assignor.)
Blair, Tom A., Amarillo, Tex. Ballast cleaning apparatus. 2,284,035; May 26.
Blaw-Knox Company. (See Harrington, Edward L., assignor.)
Blenkinsop, Ward, and Company. (See Wiesner, B. P. H., and Katscher, assignors.)
Bliss, E. W., Company. (See Krueger, Frank, assignor.)
Bliss, E. W., Company. (See Rode, F. J., and Hatch, assignors.)
Bliss, E. W., Company. (See Williamson, Larkin R., assignor.)
Bloch, Franz G., Le Sentier, Switzerland. Bimetallic element. 2,284,082; May 26.
Bock, Louis H., Huntingdon Valley, assignor to Rohm & Haas Company, Philadelphia, Pa. Aminomethyl derivatives of p-hydroxybenzoic acid salts and amides. 2,284,118; May 26.
Boehm, Edwin B., De Forest, Wis. Corn shock compressor. 2,284,119; May 26.
Boes, Walter W., and J. R. McGuire, Dayton, Ohio. Torque amplifier. 2,284,509; May 26.
Bol Cornelis, Palo Alto, Calif., assignor to General Electric Company. Method and apparatus for exhausting and filling discharge devices. 2,284,036; May 26.
Bolle, Léon, assignor of one-half to La Nationale S. A., Geneva, Switzerland, and one-half to H. Dunhill. Pyrophoric lighter. 2,283,909; May 26.
Bond, Donald S., Philadelphia, Pa., assignor to Radio Corporation of America. Inverse feedback amplifier system. 2,284,083; May 26.
Booker, Curtis G., assignor to The International Derrick & Equipment Company of Texas, Beaumont, Tex. Spinning line guide. 2,284,120; May 26.
Boomsma, Louis G., New York, N. Y. Lighting device. 2,284,363; May 26.
Borden Company, The. (See Lowe, V. J., and Bean, assignors.)
Borg, George W., Corporation, The. (See Ralston, Walter E., assignor.)
Borsett, Ferdinand N., Bronx, N. Y. Automatic three-way valve control for steam heating systems. 2,283,910; May 26.
Boughton, Earl. (See Miller, William C., assignor.)
Boyd, Luther D., Louisville, Ky. Self-thawing radiator. 2,284,121; May 26.
Boyd, Robert, Vancouver, British Columbia, Canada. Purifying sugar solutions. 2,284,122; May 26.
Brackett, Tracy F., assignor to General Motors Corporation, Detroit, Mich. Sanding machine. 2,284,556; May 26.
Brackett, Tracy F., assignor to General Motors Corporation, Detroit, Mich. Work following apparatus. 2,284,557; May 26.
Bradford, James H. H. (See Simons, Robert J., assignor.)
Braida, Rafael, Buenos Aires, Argentina. Burner for liquid fuels. 2,284,037; May 26.
Brancolino, Joseph, Riverside, Conn. Clutch. 2,283,965; May 26.
Branson, Otis L. (See Noll, H. D., and Branson.)
Brant, Joseph H., and B. Thompson, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Treating unsaturated ketones containing aldehyde. 2,283,911; May 26.
Breazeale, Francis B., assignor to American Enka Corporation, Enka, N. C. Tensiometer. 2,284,364; May 26.
Breer, Carl, Grosse Pointe, and G. R. Pennington, Bloomfield Hills, assignors to Chrysler Corporation, Highland Park, Mich. Fluid coupling. 2,283,123; May 26.
Briechle, Ambroslus, Brooklyn, R. T. Hurley, Dobbs Ferry, N. Y., and G. E. Merritt, Lusby, Md., assignors to Bendix Aviation Corporation, South Bend, Ind. Apparatus for producing and utilizing photographic images. 2,284,558; May 26.
Briegel, Theodore W., Galva, Ill. Fitting. 2,284,365; May 26.
Briggs, Arthur T. (See Lampton, G. T., Hackethal, and Briggs.)
Brimhall, George H., Hollywood, Calif. Wall form. 2,284,559; May 26.
Britton, Edgar C., F. B. Smith, and R. L. Brown, assignors to The Dow Chemical Company, Midland, Mich. Purification of high-melting organic compounds. 2,284,124; May 26.
Brooks, Benjamin T., assignor to American Cyanamid Company, New York, N. Y. Lubricating composition. 2,284,258; May 26.
Brooks, William H., Wauwatosa, assignor to Milprint, Inc., Milwaukee, Wis. Packing. 2,284,604; May 26.
Brown, Andrew L., Brooklyn, N. Y., assignor to Radio Corporation of America. Electrical door interlock. 2,284,125; May 26.
Brown, Luther F., Amarillo, Tex. Slack adjuster for brakes. 2,283,966; May 26.
Brown, Robert L. (See Britton, E. C., Smith, and Brown.)
Brown, William F., Flushing, N. Y. Beverage apparatus. 2,283,967; May 26.

Bruecker, John, Chicago, Ill. Shaving implement. 2,284,038; May 26.
Bruno Patents Inc. (See Bruno, William A., assignor.)
Bruno, William A., Astoria, assignor, by mesne assignments, to Bruno Patents Inc., Long Island City, N. Y. Reproduction of sound. 2,284,039; May 26.
Brunswick-Balke-Collender Company, The. (See Hedenskoog, Ernest, assignor.)
Brush Development Company, The. (See Williams, Alfred L. W., assignor.)
Bruson, Herman A., Germantown, assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. Bismuth salts of oxy acids. 2,284,126; May 26.
Bruson, Herman A., assignor to Röhm & Haas Company, Philadelphia, Pa. Esters of polyglycerol. 2,284,127; May 26.
Bryant Electric Company, The. (See Beal, James F., assignor.)
Bryant, Eugene E., assignor to Ferro Enamel Corporation, Cleveland, Ohio. Beading machine. 2,284,366; May 26.
Brant, Frank D., Stratford, and W. R. Young, Fairfield, Conn., assignors to General Electric Company. Combined lamp socket and switch. 2,284,367; May 26.
Bryant Heater Company, The. (See Higley, Frank R., assignor.)
Buckeye Steel Castings Company. (See Speck, W. C., and Pierce, assignors.)
Buckeye Traction Ditcher Company, The. (See Hollmann, H., and VanVoorhis, assignors.)
Budd, Edward G., Manufacturing Company. (See Whitesell, John C., Jr., assignor.)
Budd Wheel Company. (See Eksergian, Carolus L., assignor.)
Budd Wheel Company. (See Eksergian, C. L., and Gaenssle, assignors.)
Budd Wheel Company. (See Farr, W. H., Eksergian, and Harle, assignors.)
Bunch, Frederick H., Ottumwa, Iowa. Mold. 2,283,968; May 26.
Burgess, Samuel, South Ozone Park, N. Y., and N. Schoeppel, Mexico, Mo., assignors to Nichols Engineering & Research Corporation, New York, N. Y. Furnace construction. 2,284,368; May 26.
Burk, Robert E., and E. C. Hughes, Cleveland Heights, assignors to The Standard Oil Company, Cleveland, Ohio. Hydrocarbon synthesis. 2,284,468; May 26.
Burkhardt, John, Cleveland, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Crimping device. 2,284,259; May 26.
Bush, Paine L., Dallas, Tex. Tool and blade holder. 2,284,128; May 26.
Bushey, Thomas N., Cranston, R. I., assignor to Universal Winding Company, Boston, Mass. Tension device for winding and like machines. 2,283,912; May 26.
Butenandt, Adolf, Danzig-Langfuhr, Free State of Danzig, assignor to Schering Corporation, Bloomfield, N. J. Compounds of the cyclopentanopolyhydrophenanthrene series and producing them. 2,283,913; May 26.
Büttner, Artur, assignor to Schnellpressenfabrik Aktiengesellschaft Heidelberg, Heidelberg, Germany. Device for spraying printed sheets. 2,283,969; May 26.
Buttner, William C., Winnetka, assignor to The Bastian-Blessing Company, Chicago, Ill. Valve. 2,283,970; May 26.
Button Corporation of America. (See Wood, Robert O., assignor.)
Caesar, Orville S., Barrington, assignor to Tropic-Aire, Incorporated, Chicago, Ill. Chair or seat structure and foot rest construction therefor. 2,284,129; May 26.
Caldwell, Stuart H., assignor to Kelch Heater Company, Detroit, Mich. Signal. 2,284,040; May 26.
California Fruit Growers Exchange. (See Leonard, Arthur S., assignor.)
Callite Tungsten Corporation. (See Laise, Clemens A., assignor.)
Campbell, Julian A., Long Beach, Calif. Boiler feed control. 2,284,130; May 26.
Canady, Don, Cleveland, Ohio. Glow discharge lamp. 2,284,084; May 26.
Capewell Manufacturing Company, The. (See Morgan, Porter S., assignor.)
Caplan, Solomon, New York, N. Y., assignor to The Harvel Corporation. Hydrogenated cardanol and making the same. 2,284,369; May 26.
Carlson, George, Bridgeport, Conn., assignor to General Electric Company. Cable bushing. 2,284,370; May 26.
Carnegie-Illinois Steel Corporation. (See Wells, J. H., and Wilson, Jr., assignors.)
Carter, Philip S., Port Jefferson, N. Y., assignor to Radio Corporation of America. Antenna. 2,283,914; May 26.
Case, Nelson P., Great Neck, N. Y., assignor to Hazeltine Corporation. Antenna system for modulated-carrier signal receivers. 2,284,131; May 26.
Castellanos, Leopold J., assignor to Hughes Tool Company, Houston, Tex. Making sealing supports for tool joints. 2,284,260; May 26.
Cates, Carl W., Kansas City, Mo. Target stand. 2,284,510; May 26.
Celanese Corporation of America. (See Dreyfus, H., and Groombridge, assignors.)
Chain Belt Company. (See Ball, C. F., and Hilkemeier, assignors.)
Chambers, Isaac M., Narberth, Pa. Springing for railway trucks. 2,283,971; May 26.
Chandler & Price Company, The. (See Jirousek, Joseph F., assignor.)
Chapman, Olaf L., Marshfield, Mo. Acid dispenser. 2,284,041; May 26.
Chemical Foundation, Incorporated, The. (See Wulff, John, assignor.)
Chemische Fabrik Gowenberg Dr. Warth & Company. (See Warth, Carl, assignor.)
Chereton, Avery B., assignor to Electrical Products Company, Detroit, Mich. Electric ironing device. 2,284,132; May 26.
Chicago Cardboard Company. (See Ziemmerman, Henry, assignor.)
Chirelstein, Charles, Newark, N. J. Starter switch. 2,283,972; May 26.
Chlopecky, Harry, Toronto, Ontario, Canada. Cashier's and teller's cage. 2,284,261; May 26.
Chrisman, Horace, Edgewood, assignor to Pittsburgh Equitable Meter Company, Pittsburgh, Pa. Meter seal. 2,284,511; May 26.
Chrysler Corporation. (See Breer, C., and Pennington, assignors.)
Chrysler Corporation, The. (See Fishburn, Otto E., assignor.)
Chrysler Corporation. (See Knocke, Louis T., assignor.)
Chrysler Corporation. (See Neracher, C. A., Dunn, Iavelli, Syrovy, and Schotz, assignors.)
Chrysler Corporation. (See Schotz, Otto W., assignor.)
Churchill, Wesley R., Hollywood, Calif. Spectacle mounting. 2,284,262; May 26.
Cincinnati Time Recorder Company, The. (See Streckfuss, Elmer G., assignor.)
Clark, Breckinridge T., assignor to E. H. Jacobs Mfg. Co., Inc., Danielson, Conn. Dobby cord. 2,284,042; May 26.
Clark, Richard U., Fort Wayne, Ind. High intensity luminous tube. 2,284,263; May 26.
Clausen, Henry P., White Plains, N. Y., assignor to The Gray Manufacturing Company, Hartford, Conn. Marking mechanism for dictation machines. 2,284,043; May 26.
Claytor, Jacob P., and R. J. Patterson, Muskegon, Mich. Toy gun. 2,284,512; May 26.
Cleveland Crane & Engineering Company, The. (See Wehr, William G., assignor.)
Cleveland Graphite Bronze Company, The. (See Dekome, Arthur, assignor.)
Cleveland Pneumatic Tool Company, The. (See Johnson, Arthur B., assignor.)
Cleveland Shopping News Company, The. (See Hamlin, Walter E., assignor.)
Clyde Iron Works. (See Berby, Ola L., assignor.)
Clymer, Charles C., Altamont, G. Kron and C. Concordia, Schenectady, N. Y., assignors to General Electric Company. Alternating current motor drive. 2,284,469; May 26.
Coakley, Walter G. (See Harmon, A. J., and Coakley.)
Cohea, Wayne D., and H. S. Eubanks, Frederick, Okla. Cotton baling apparatus. 2,284,044; May 26.
Cole, Samuel F., Bethesda, Md. Syringe. 2,283,915; May 26.
Collard, John, Hammersmith, London, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England. Electric signal transmission system. 2,284,085; May 26.
Commonwealth Engineering Corporation. (See Bench, D. E., Crosby and Wintermute, assignors.)
Commonwealth Engineering Corporation. (See Crosby M. A., and Bench, assignors.)
Comper, Adrian, Pittsfield, Mass., and R. A. Bartholomew, Atlanta, Ga., assignors, by mesne assignments, to The American Sterilizer Company, Erie, Pa. Labor or similar bed. 2,284,470; May 26.
Comstock, George F., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Welding. 2,283,916; May 26.
Condon, Ernest E., Flushing, N. Y., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Tube cutter. 2,284,133; May 26.
Concordia, Charles. (See Clymer, C. C., Kron and Concordia.)
Conn, C. G., Ltd. (See Pickering, Norman C., assignor.)
Connolly, William B. assignor to Rochester Manufacturing Co., Incorporated, Rochester N. Y. Ammeter. 2,284045; May 26.
Connor, Kirke W., Detroit, Mich., assignor to Micromatic Hone Corporation. Honing device. 2,284,134; May 26.
Consolidated Cigar Corporation. (See Silberman, Samuel J., assignor.)
Consolidated Edison Company of New York, Inc. (See Meyer, Erich O., assignor.)
Container Corporation of America. (See Van Saun, Raymond H., assignor.)
Cordeau, Joseph A., Portland, Maine. Sewing machine. 2,284,514; May 26.
Corneil, Hampton G., Baytown, Tex., assignor to Standard Oil Development Company. Sampling-proportioning device. 2,284,560; May 26.
Cornelius, Richard T., Minneapolis, Minn. Beer dispensing system. 2,284,135; May 26.
Coward, Richard W., Birmingham, Ala. Ash arrester. 2,284,513; May 26.
Crary, Cecil R., Detroit, Mich. Parachute projectile. 2,284,371; May 26.

Crary, Ralph E., Brooklyn, N. Y. Pressing pad. 2,284,130; May 26.
Crawford Door Company. (See Hufferd, G. H., and Graham, assignors.)
Crisp, George B., Brooklyn, N. Y. Fuel burner. 2,284,264; May 26.
Criss, Loren E., Los Angeles, Calif. Antisiphonic flush valve and silencer. 2,283,973; May 26.
Crissy, Myron S., Dedham, Mass. Foot correctional device. 2,283,917; May 26.
Criswell, Carmer, assignor to General Motors Corporation, Detroit, Mich. Vibration suppressing means. 2,284,515; May 26.
Crook, Edward N. (See Marshall, Richard C., Jr., assignor.)
Crosby, Howard M., Schenectady, N. Y., assignor to General Electric Company. Oscillation generator. 2,284,372; May 26.
Crosby, Melvin A., and D. E. Bench, Dayton, Ohio, assignors to Commonwealth Engineering Corporation, Wilmington, Del. Side loading hearse mechanism. 2,284,187; May 26.
Crosby, Melvin A. (See Bench, D. E., Crosby and Wintermute.)
Crump, Alvin L., Evanston, and L. Crump, assignors to The Powers Regulator Company, Chicago, Ill. Pressure release. 2,284,561; May 26.
Crump, Lyman. (See Crump, Alvin L., and L.)
Cullin, Jasper F., Detroit, Mich., assignor of two-thirds to L. Mervis, Lock Haven, Pa. Machine for connecting leads of armature coils to commutators. 2,284,373; May 26.
Deak, Frank, New York, N. Y. Combination box and pocket for handbags. 2,284,374; May 26.
De Baugh, William H. (See Jones, K. M., and De Baugh.)
de Belleseize, Henri J. J. M. de R., Neuilly sur Seine, France. System for signaling by electromagnetic waves. 2,284,266; May 26.
De Board, Dewey R., assignor of one-half to J. W. O'Dell, MacDunn, W. Va. Blasting cable reel. 2,284,375; May 26.
Dedrick, Charles H. (See Baker, C. L., and Dedrick.)
Deere & Company. (See Silver, Walter H., assignor.)
D'Entremont, Franklin R., Lynn, Mass., assignor to General Electric Company. Transformer. 2,284,406; May 26.
De Havilland Aircraft Company Limited, The. (See Thomas, Frederick M., assignor.)
Dekome, Arthur, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Making bushings. 2,283,918; May 26.
De Laval Steam Turbine Company. (See Birmann, Rudolph, assignor.)
De Reamer, Frank C., Bridgeport, and A. G. Mueller, Stratford, Conn., assignors to General Electric Company. Lampholder. 2,284,376; May 26.
De Stefani, Tully, assignor to Bastian-Blessing Company, Chicago, Ill. Baffle plate for precooler. 2,284,188; May 26.
Detroit Lubricator Company. (See Eggleston, Lewis W., assignor.)
Dewey, Clarence L. and S. L., Cleveland, Ohio, assignors to Metal Tube Shaping Corporation, Elkhart, Ind. Tube forming machine. 2,284,377; May 26.
Dewey, Sydney L. (See Dewey, Clarence L. and S. L.)
Diamond, Harry, Washington, D. C., and W. S. Hinman, Jr., Falls Church, Va., assignors to the Government of the United States, as represented by the Secretary of Commerce. Radiometeorography. 2,283,919; May 26.
Dick, Burns, Ferguson, assignor to Wagner Electric Corporation, St. Louis, Mo. Brake control mechanism. 2,284,189; May 26.
Diebold Safe & Lock Co. (See Miller, W. C., and Boughton, assignors.)
Diebold Safe & Lock Company. (See Paca, John P., assignor.)
Dillingham, Vachel S. (See Goodman, H., and Dillingham.)
Dillman, Kennett W., Caruthersville, Mo., and R. W. Barbee, Memphis, Tenn., said Barbee assignor to said Dillman. Apparatus for making reinforced sheets. 2,284,563; May 26.
Dillon, Stephen V., assignor to Hanlon-Waters, Inc., Tulsa, Okla. Coupling. 2,283,974; May 26.
Dillon, Stephen V., Tulsa, Okla. Pipe coupling. 2,283,975; May 26.
Dirkes, Robert F. (See Kimball, V. R., and Dirkes.)
Disler, Clarence J., et al. (See Watkins, William F., assignor.)
Dittmann, Georg, Los Angeles, Calif. Mirror reflex camera with binocular eye level view finder. 2,284,562; May 26.
Doane, Leroy C., assignor to The Doane Products Corporation, Meriden, Conn. Fluorescent lamp. 2,284,046; May 26.
Doane Products Corporation, The. (See Doane, Leroy C., assignor.)
Dole Valve Company, The. (See Metzdorf, George R., assignor.)
Dome, Robert B., Bridgeport, Conn., assignor to General Electric Company. Deflecting circuit. 2,284,378; May 26.
Dow Chemical Company, The. (See Britton, E. C., Smith, and Brown, assignors.)
Dow, Orville E., Rocky Point, N. Y., assignor to Radio Corporation of America. Ultra high frequency voltmeter. 2,284,379; May 26.
Downing, Frederick B., and C. J. Pedersen, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Stabilization of nonviscous cracked petroleum distillates. 2,284,267; May 26.
Drabble, Clifford S., Windsor, Ontario, Canada. Throttle control device. 2,284,380; May 26.
Dreyfus, Henry, London, and W. H. Groombridge, Spondon, near Derby, England, assignors to Celanese Corporation of America. Production of aliphatic acids. 2,283,920; May 26.
Dreyfus, Henry, London, and W. H. Groombridge, Spondon, near Derby, England, assignors to Celanese Corporation of America. Recovery of lower aliphatic acids from their salts. 2,283,976; May 26.
Dreyfus, Henry, London, and W. H. Groombridge, Spondon, near Derby, England, assignors to Celanese Corporation of America. Production of aliphatic acids. 2,283,977; May 26.
Drying Systems, Inc. (See Porwancher, Samuel R., assignor.)
Dual Parking Meter Company. (See McGay, John B., assignor.)
Dunhill, Herbert, et al. (See Bolle, Léon, assignor.)
Dunn, William T. (See Neracher, C. A., Dunn, Iavelli, Syrovy, and Schotz.)
Dunning Lueckel Engineering Company. (See Lueckel, William J., assignor.)
Du Pont, E. I., de Nemours & Company. (See Burkhardt, John, assignor.)
Du Pont, E. I., de Nemours & Company. (See Downing, F. B., and Pedersen, assignors.)
Du Pont, E. I., de Nemours & Company. (See Larchar, A. W., and Young, assignors.)
Du Pont, E. I., de Nemours & Company. (See Lontz, John F., assignor.)
Du Pont, E. I., de Nemours & Company. (See McCleary, Ray L., assignor.)
Du Pont, E. I., de Nemours & Company. (See Meigs, Frederick M., assignor.)
Du Pont, E. I., de Nemours & Company. (See Pitman, Earle C., assignor.)
Du Pont, E. I., de Nemours & Company. (See Reichert, J. S., McNeight, and Elston, assignors.)
Du Pont, E. I., de Nemours & Company. (See Werntz, James M., assignor.)
Du Pont, Eleuthere P., Montchanin, Del. Temperature regulating means for internal combustion engines. 2,284,381; May 26.
Duryea, O. C., Corporation. (See Duryea, Otho C., assignor.)
Duryea, Otho C., Waterbury, Conn., assignor to O. C. Duryea Corporation, Wilmington, Del. Car construction. 2,284,268; May 26.
Eastman Kodak Company. (See Brant, J. H., and Thompson, assignors.)
Easton Car & Construction Company. (See Fraunfelder, George D., assignor.)
Eberle, Joseph F., Westfield, Pa. Coaster. 2,283,978; May 26.
Ebersole, Charles K., Brainerd, Minn. Fishing sinker. 2,284,564; May 26.
Eberts, Edward C., assignor to Stokely Brothers & Company, Inc., Indianapolis, Ind. Apparatus for processing the contents of sealed cans. 2,284,269; May 26.
Eberts, Edward C. and K. M., Indianapolis, said E. C. Eberts assignor to Stokely Brothers & Company, Inc., Indianapolis, Ind. Method and apparatus for grading and individually freezing various articles. 2,284,270; May 26.
Eberts, Kenneth M. (See Eberts, Edward C. and K. M.)
Eclipse Aviation Corporation. (See Allen, Joseph W., assignor.)
Edison General Electric Appliance Company. (See Stoddard, Edgar S., assignor.)
Edmonds, Henry, Leavenworth, Kans. Valve action. 2,283,979; May 26.
Edwards, Hilbert E., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Transmission. 2,284,047; May 26.
Edwards, Martin A., Schenectady, N. Y., assignor to General Electric Company. Vibrator inverter system. 2,284,407; May 26.
Eenink-winkel, Gerhardus. (See Lely, A., and Eenink-winkel.)
Eggleston, Lewis W., Davison, assignor to Detroit Lubricator Company, Detroit, Mich. Air vent valve. 2,284,137; May 26.
Eksergian, Carolus L., Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Brake mechanism. 2,284,484; May 26.
Eksergian, Carolus L. (See Farr, W. H., Eksergian, and Harle.)
Eksergian, Carolus L., and P. W. Gaenssle, Detroit, Mich., assignors to Budd Wheel Company, Philadelphia, Pa. Brake mechanism. 2,284,605; May 26.
Elberfeld, Catherine, Brooklyn, N. Y. Garment. 2,284,382; May 26.

Electric & Musical Industries Limited. (See Collard, John, assignor.)
Electrical Products Company. (See Chereton, Avery B., assignor.)
Ellick, Otto E. (See Kunkel, Elzy O., assignor.)
Elmer, William B., Winchester, Mass. Thermostatic control device. 2,284,383; May 26.
Elsner, Horst, Berlin, Germany, assignor to Schering Corporation, Bloomfield, N. J. Products capable of preventing the coagulation of blood and making the same. 2,284,566; May 26.
Elston, Arthur A. (See Reichert, J. S., McNeight, and Elston.)
Emmons, Eugene F., assignor to The Union Chain and Manufacturing Company, Sandusky, Ohio. Chain. 2,284,565; May 26.
Endres, Lawrence M., Waunakee, Wis. Drawbar. 2,284,408; May 26.
Erath, George F., Queens Village, N. Y., assignor to Pittsburgh Corning Corporation, Allegheny County, Pa. Fitting for tempered glass panels. 2,284,409; May 26.
Ericks, Walter P., Cos Cob, Conn., assignor to American Cyanamid Company, New York, N. Y. Detergent composition. 2,284,086; May 26.
Erickson, George L. (See Parrott, R. D., Erickson, and Wise.)
Eskridge, Cecil V. (See Jacobsson, W. J., and Eskridge.)
Essex Rubber Company. (See Oakley, Laurence M., assignor.)
Eubanks, Howard S. (See Cohea, W. D., and Eubanks.)
Eureka Process Corporation. (See Walker, J. P., and Foran, assignors.)
Evans, Bernard C., Fort Wayne, Ind., assignor to General Electric Company. Electric contact brush. 2,284,384; May 26.
Evans, Harry. (See Bergman, R. L., and Evans.)
Evans Products Company. (See Evans, R. B., and Farrell, assignors.)
Evans, Robert B., Grosse Pointe, and E. F. Farrell, assignors to Evans Products Company, Detroit, Mich. Space heater. 2,284,138; May 26.
Evans, Russell M., assignor to The Surety Rubber Company, Carrollton, Ohio. Protective insulation for linemen. 2,284,190; May 26.
Fairmont Railway Motors, Inc. (See Sublett, Ira, assignor.)
Farmer, John F., Indianapolis, Ind. Adjustable end slide grille. 2,284,410; May 26.
Farnsworth Television and Radio Corporation. (See Thelin, George W., assignor.)
Farr, Warren H., C. L. Eksergian, and K. C. Harle, Detroit, Mich., assignors to Budd Wheel Company, Philadelphia, Pa. Brake shoe. 2,284,485; May 26.
Farrell, Eugene F. (See Evans, R. B., and Farrell.)
Fay, Harold C., Floral Park, assignor to The Public National Bank and Trust Company of New York, New York, N. Y. Folder. 2,283,980; May 26.
Ferguson, Henry C., San Francisco, Calif. Teapot. 2,284,087; May 26.
Ferla, John, Camden, N. J., assignor of one-fourth to Paul X. Blaettler, Oaklyn, N. J. Apparatus for molding pipe. 2,283,921; May 26.
Fernseh G. m. b. H. (See Mulert, T., and Rudert, assignors.)
Fernseh G. m. b. H. (See Paehr, Hans W., assignor.)
Ferro Enamel Corporation. (See Bryant, Eugene E., assignor.)
Fidelity Union Trust Company, executor. (See Laise, Clemens A., deceased.)
Fielding, George T., Stamford, Conn. Pressing iron. 2,284,411; May 26.
Fike, William J., Pavillion, Wyo. Variable pitch propeller. 2,284,516; May 26.
Fink, John, New Palestine, Ind. Divider sickle and drive. 2,284,517; May 26.
Finlayson, Duncan K. (See Belchetz, A., and Finlayson.)
Fischer, Friedrich E., Erlenbach, Switzerland. Apparatus for surveying and ascertaining sighting errors in shooting practice against moving targets, especially airplanes. 2,283,922; May 26.
Fishburn, Otto E., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Variable speed transmission mechanism. 2,284,191; May 26.
Fitzpatrick, Bernhardt T., Long Beach, Calif. Rotary power unit including means and method for controlling same. 2,284,139; May 26.
Flex-O-Tube Company, The. (See Miller, William H., assignor.)
Flygare, Carl G., and C. C. Alvord, assignors to Norton Company, Worcester, Mass. Camshaft bearing grinding machine. 2,284,606; May 26.
Folmer Graflex Corporation, The. (See Hineline, Edson S., assignor.)
Foran, Edwin V. (See Walker, J. P., and Foran.)
Ford, George E., assignor to Rochester Manufacturing Co. Incorporated, Rochester, N. Y. Thermometer construction. 2,284,048; May 26.
Forster, Percy M., Berkeley, Calif. Lead pot heater. 2,283,981; May 26.
Foxboro Company, The. (See Howe, Wilfred H., assignor.)
Franklin, Leslie U., and W. H. Weeks, Port Arthur, Tex., assignors to Gulf Oil Corporation, Pittsburgh, Pa. Sweetening sour hydrocarbon oils. 2,284,271; May 26.
Franklin, Leslie U., W. H. Weeks, and J. W. Harris, Port Arthur, Tex., assignors to Gulf Oil Corporation, Pittsburgh, Pa. Sweetening light petroleum distillates. 2,284,272; May 26.
Franklin, Leslie U., Port Arthur, Tex., assignor to Gulf Oil Corporation, Pittsburgh, Pa. Sweetening sour hydrocarbon oils. 2,284,273; May 26.
Fraunfelder, George D., assignor to Easton Car & Construction Company, Easton, Pa. Tiltable body equipped land vehicle. 2,284,140; May 26.
Freeman, Edward M. (See Schellenberger, R., and Freeman.)
Freeman, William K., Cincinnati, Ohio. Automobile door lock. 2,284,192; May 26.
Freeport Sulphur Company. (See Barnett, Maxwell M., assignor.)
Freer, Phelps M., Detroit, Mich. Friction coupling. 2,284,193; May 26.
French, Henry C. (See Frentzel, H. C., Jr., and French.)
French, James W., assignor to Barr and Stroud, Limited, Anniesland, Glasgow, Scotland. Optical observation instrument. 2,284,049; May 26.
French, James W., assignor to Barr and Stroud, Limited, Anniesland, Glasgow, Scotland. Lens for optical purposes. 2,284,567; May 26.
Frentzel, Herman C., Jr., and H. C. French, assignor to The Heil Co., Milwaukee, Wis. Scraper. 2,284,412; May 26.
Frentzel, Herman C., Jr., assignor to The Heil Co., Milwaukee, Wis. Hydraulic system. 2,284,413; May 26.
Freshwaters, Edison C., assignor to Jos. Schlitz Brewing Company, Milwaukee, Wis. Carton. 2,284,385; May 26.
Frick, Henry G., Palermo, Italy. Envelope. 2,284,386; May 26.
Fridolph, Annette, assignor to A. B. A. Specialties Company, Inc., New York, N. Y. Fastening elements and utilizing same. 2,284,274; May 26.
Ful-Vue Sales Company, The. (See Kimmel, George P., assignor.)
Funk, James M., Ottawa, Ill., assignor to Advance Aluminum Castings Corporation, Chicago, Ill. Suction fan unit. 2,284,141; May 26.
Gaenssle, Paul W. (See Eksergian, C. L., and Gaenssle.)
Gammon, Robert W., St. Paul, Minn. Humidifier. 2,284,414; May 26.
Gangbin, Arthur, Madera, assignor of fifty per cent to I. G. Gangbin, Fresno, Calif. Indirect lighting system. 2,284,194; May 26.
Gangbin, Irol G. (See Gangbin, Arthur, assignor.)
Gannett, Chauncey W., assignor to Wellington Machine Company, Wellington, Ohio. Lift truck. 2,284,275; May 26.
Gans, David M. (See Gessler, A. E., Gans, and Greubel.)
Gans, David M., Bronx, assignor to Interchemical Corporation, New York, N. Y. Quick drying intaglio marking composition. 2,284,276; May 26.
Garber, Aaron, Brooklyn, N. Y., assignor of fifty per cent to I. Sokolov, Perth Amboy, N. J. Oil burner starter. 2,284,568; May 26.
Garrard Engineering & Manufacturing Company, The. (See Slade, Hector V., assignor.)
Garside, John I., West Boylston, assignor to Norton Company, Worcester, Mass. Grinding machine. 2,284,050; May 26.
Gaylor, Peter J. (See Kellog, H. B., and Gaylor.)
Gemmer Manufacturing Company. (See Hammond, Charles F., assignor.)
Gemmer Manufacturing Company. (See Hammond, C. F., and Pulleyblank, assignors.)
General Aniline & Film Corporation. (See Mieg, W., and Wieners, assignors.)
General Dyestuff Corporation. (See Sweet, Harold A., assignor.)
General Electric Company. (See Acly, Harry M., assignor.)
General Electric Company. (See Bellows, Brian C., Jr., assignor.)
General Electric Company. (See Bol, Cornelis, assignor.)
General Electric Company. (See Bryant, F. D., and Young, assignors.)
General Electric Company. (See Carlson, George, assignor.)
General Electric Company. (See Clymer, C. C., Kron, and Concordia, assignors.)
General Electric Company. (See Crosby, Howard M., assignor.)
General Electric Company. (See D'Entremont, Franklin R., assignor.)
General Electric Company. (See DeReamer, F. C., and Mueller, assignors.)
General Electric Company. (See Dome, Robert B., assignor.)
General Electric Company. (See Edwards, Martin A., assignor.)
General Electric Company. (See Evans, Bernard C., assignor.)
General Electric Company. (See Hahn, C. E., and Salo, assignors.)
General Electric Company. (See Hansen, Siegfried, assignor.)
General Electric Company. (See Heiser, Myron G., assignor.)

General Electric Company. (See Hüniger, M., and Panke, assignors.)
General Electric Company. (See Lake, John E., assignor.)
General Electric Company. (See McArthur, Elmer D., assignor.)
General Electric Company. (See Ogden, Harold S., assignor.)
General Electric Company. (See Pollock, Herbert C., assignor.)
General Electric Company. (See Powers, James H., assignor.)
General Electric Company. (See Skinner, Charles K., assignor.)
General Electric Company. (See Smitley, Wayne C., assignor.)
General Electric Company. (See Van Nest, Francis H., assignor.)
General Electric Company. (See Wood, Orla L., Jr., assignor.)
General Electric Company. (See Wyer, Richard F., assignor.)
General Electric Company. (See Zelt, Elmer J., assignor.)
General Filters Inc. (See Redner, Arthur D., assignor.)
General Foods Corporation. (See Berry, Norton E., assignor.)
General Foods Corporation. (See Hall, Bicknell, assignor.)
General Motors Corporation. (See Brackett, Tracy F., assignor.)
General Motors Corporation. (See Criswell, Carmer, assignor.)
General Motors Corporation. (See Parkes, John S., assignor.)
General Motors Corporation. (See Rippingille, Edward V., assignor.)
General Tire & Rubber Company. (See Kraft, Herman T., assignor.)
Genter, Harold C. (See Sardeson, Robert, assignor.)
Gerber, Paul D., Woodlynne, N. J., assignor to Radio Corporation of America. Mounting piezoelectric elements. 2,284,088; May 26.
Germany, James H., Edgewood, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Bell type annealing furnace. 2,283,982; May 26.
Gessler, Albert E., D. M. Gans, New York, and P. W. Greubel, Long Island City, assignors to Interchemical Corporation, New York, N. Y. Quick drying intaglio marking composition. 2,284,277; May 26.
Gibson, Thomas K., Salt Lake City, Utah. Hook fastener. 2,283,983; May 26.
Gilbert, Russell C., assignor to Bendix Home Appliances, Inc., South Bend, Ind. Vacuum breaker. 2,284,051; May 26.
Gill Glass & Fixture Company. (See Orth, Richard, assignor.)
Gillenwaters, M. Elizabeth. (See Sparling, Elliott W.)
Gillenwaters, Theodore R., trustees, et al. (See Sparling, Elliott W., assignor.)
Glasner, Rudolph W., Chicago, Ill. Press. 2,284,569; May 26.
Glass, John P., assignor to The Aeroil Burner Company, West New York, N. J. Liquid dispenser or the like. 2,284,316; May 26.
Gleason, Anthony H., Westfield, N. J., assignor to Standard Oil Development Company. Coating and impregnating composition. 2,284,570; May 26.
Gohs, Howard. (See Shoop, C. T., and Gohs.)
Goldblatt, Henry J. (See Landgraf, Myron J., assignor.)
Goldstine, Hallan E., Rocky Point, N. Y., assignor to Radio Corporation of America. Relay system. 2,284,415; May 26.
Goodman, Harry, and V. S. Dillingham, Oklahoma City, Okla. Humidifier. 2,284,195; May 26.
Goodrich, B. F., Company, The. (See Jones, P. C., and Mathes, assignors.)
Goodrich, B. F., Company, The. (See Jones, Paul C., assignor.)
Goodwin, George I., Detroit, Mich. Clutch plate. 2,284,278; May 26.
Gordon, Arthur, Chicago, Ill. Roof drain. 2,284,416; May 26.
Gordon, Carlton C., Elsmere, assignor to Albany Felt Company, Albany, N. Y. Treatment of mechanical fabrics. 2,284,387; May 26.
Government of the United States, as represented by the Secretary of Commerce. (See Diamond, Harry.)
Government of the United States of America, as represented by the Secretary of Interior and his successors in office. (See Schroeder, Wilburn C., assignor.)
Government of the United States of America, as represented by the Secretary of the Interior and his successors in office. (See Schroeder, W. C., and Berk, assignors.)
Graesser, David A. (See Peets, W. J., Graesser and Marsac.)
Graham, Edward, Lebanon, Tenn. Wrench. 2,283,984; May 26.
Graham, Matthew P. (See Hufferd, G. H., and Graham.)
Gramps, Edward, Valparaiso, Ind. Hedge trimmer. 2,284,196; May 26.
Grant, Colin, Jackson, Mich. Truss construction. 2,284,143; May 26.
Grant, John. (See Santiago, James J., assignor.)
Grant, Jordan W., Portsmouth, Va., and H. M. Hunt, assignors to Akran Brass Manufacturing Company, Inc., Wooster, Ohio. Shutoff nozzle. 2,283,985; May 26.
Gray, Daniel M., assignor to Hazel-Atlas Glass Company, Wheeling, W. Va. Reclaiming coating material. 2,284,142; May 26.
Gray, Frank, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Scanning system. 2,284,417; May 26.
Gray Manufacturing Company, The. (See Clausen, Henry P., assignor.)
Grays Harbor Chair & Mfg. Company. (See Schuh, William H., assignor.)
Green, Estill I., Short Hills, N. J., and N. Monk, New York, N. Y., assignors to American Telephone and Telegraph Company. Phase control in electrical transmission. 2,284,612; May 26.
Green, Gould, New York, N. Y. Chip rack. 2,284,518; May 26.
Greenberg, Elmer H., Philadelphia, Pa. Scrubbing gases. 2,284,317; May 26.
Greene, Howard H., Oklahoma City, Okla. Releasing safety hook. 2,284,197; May 26.
Greene, Monte L. (See Muench, E. J., and Greene.)
Greenfield, John A. (See Johnson, C. A., and Greenfield.)
Greider, Harold W. (See MacArthur, R. A., and Greider.)
Greiner, Anton F., Detroit, Mich. Universal joint. 2,284,198; May 26.
Greiner, Anton F., Detroit, Mich. Torque transmitting slip joint. 2,284,199; May 26.
Greubel, Paul W. (See Gessler, A. E., Gans, and Greubel.)
Greubel, Paul W., Long Island City, assignor to Interchemical Corporation, New York, N. Y. Quick drying intaglio marking composition. 2,284,279; May 26.
Grieg, James W., Grosse Pointe Park, assignor to Hudson Motor Car Company, Detroit, Mich. Vehicle body. 2,284,419; May 26.
Groombridge, Walter H. (See Dreyfus, H., and Groombridge.)
Grotenhuis, James T., Orange City, Iowa. Heater. 2,283,986; May 26.
Gruss, Francis J., San Francisco, Calif. Gum massaging and teeth strengthening device. 2,284,200; May 26.
Gulf Oil Corporation. (See Franklin, Leslie U., assignor.)
Gulf Oil Corporation. (See Franklin, L. U., and Weeks, assignors.)
Gulf Oil Corporation. (See Franklin, L. U., Weeks, and Harris, assignors.)
Gurries, Albert G., assignor to Be-Ge Manufacturing Company, Gilroy, Calif. Ripper. 2,284,388; May 26.
Gustavson, Alvin N., assignor to Automatic Voting Machine Corporation, Jamestown, N. Y. Voting machine. 2,284,144; May 26.
Guyot, Henri J., Neuchatel, Switzerland. Watch. 2,284,418; May 26.
Habgood, Bernard J., E. Isaacs and L. B. Morgan, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Synthetic rubberlike materials from 1-cyanobutadiene-1,3 and 2-chlorobutadiene-1,3. 2,284,280; May 26.
Habgood, Bernard J., E. Isaacs and L. B. Morgan, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Synthetic rubberlike material from 1-cyanobutadiene-1,3 and butadienes-1,3. 2,284,281; May 26.
Hackethal, Paul F. (See Lampton, G. T., Hackethal and Briggs.)
Hacklander, Hans, Linden, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Feeding mechanism for sewing machines. 2,284,471; May 26.
Hadley Company Limited, The. (See Johnson, Francis C., assignor.)
Haggard, Ottis C. (See Heckman, W. F., and Haggard.)
Hahn, Clarence E., Euclid, and J. Salo, Cleveland, Ohio, assignors to General Electric Company. Glass tube reshaping apparatus. 2,284,089; May 26.
Halbach, Howard L., and W. G. Koupal, Clarksburg, W. Va., and W. Owen, Pittsburgh, Pa., assignors to Pittsburgh Plate Glass Company. Feeding glass making batches. 2,284,420; May 26.
Hall, Bicknell, Boston, Mass., assignor to General Foods Corporation, New York, N. Y. Refrigerating apparatus. 2,283,923; May 26.
Hall, Randolph F., Rochester, assignor to Bell Aircraft Corporation, Buffalo, N. Y. Airplane. 2,284,519; May 26.
Hall, William J., assignor to Herron-Zimmers Moulding Company, Detroit, Mich. Molding. 2,284,421; May 26.
Hall, William J., assignor to Herron-Zimmers Moulding Company, Detroit, Mich. Molding. 2,284,422; May 26.
Halstead, John F., Brooklyn, N. Y., assignor to International Cigar Machinery Company. Cigar machine cross feed. 2,284,472; May 26.
Hamlin, Walter E., assignor to The Cleveland Shopping News Company, Cleveland, Ohio. Universal web guide. 2,284,318; May 26.

Hammar, Samuel H., Stambaugh, Mich. Clothesline support. 2,283,987; May 26.
Hammond, Charles F., Grosse Pointe, assignor to Gemmer Manufacturing Company, Detroit, Mich. Vehicle steering gear. 2,284,201; May 26.
Hammond, Charles F., Grosse Pointe, and H. E. Pulleyblank, assignors to Gemmer Manufacturing Company, Detroit, Mich. Shock absorbing steering gear. 2,284,202; May 26.
Hammond, Charles F., Grosse Pointe, assignor to Gemmer Manufacturing Company, Detroit, Mich. Rotary snubber. 2,284,203; May 26.
Hancock, William T., Long Beach, Calif. Refining of petroleum hydrocarbons to produce gasoline. 2,284,204; May 26.
Hanlon-Waters, Inc. (See Dillon, Stephen V., assignor.)
Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Measuring instrument. 2,284,423; May 26.
Hansen, Julius E., Rochester, N. Y. Truss construction. 2,284,205; May 26.
Hansen, Siegfried, Schenectady, N. Y., assignor to General Electric Company. Rectifying system. 2,284,389; May 26.
Hansmann, Paul, Long Prairie, Minn. Hitch. 2,284,145; May 26.
Harle, Karl C. (See Farr, W. H., Eksergian, and Harle.)
Harman, Hugh. (See McGirl, C. F., and Harman.)
Harmon, Arthur J., and W. G. Coakley, Chicago, Ill. Safety switch. 2,284,206; May 26.
Harrington, Edward L., assignor to Blaw-Knox Company, Pittsburgh, Pa. Clamshell bucket. 2,284,390; May 26.
Harris, Jack W. (See Franklin, L. U., Weeks, and Harris.)
Harvel Corporation, The. (See Caplan, Solomon, assignor.)
Harvey, Robert L., Oaklyn, N. J., assignor to Radio Corporation of America. Magnetically tuned high frequency circuits. 2,283,924; May 26.
Harvey, Robert L., Oaklyn, N. J., assignor to Radio Corporation of America. High frequency core and shield and making the same. 2,283,925; May 26.
Harvey, Robert L., Oaklyn, N. J., assignor to Radio Corporation of America. Coupling method and apparatus. 2,283,926; May 26.
Hassett, Thomas F., Philadelphia, Pa. Process and apparatus for producing rubber articles. 2,284,520; May 26.
Hatch, Meredith R. (See Rode, F. J., and Hatch.)
Hawkins, John S., North Bay, Ontario, Canada. Shaving brush. 2,284,207; May 26.
Hazel-Atlas Glass Company. (See Gray, Daniel M., assignor.)
Hazeltine Corporation. (See Case, Nelson P., assignor.)
Hazeltine Corporation. (See Loughren, Arthur V., assignor.)
Heath, Earl V., Miami, Fla. Soap holder. 2,283,988; May 26.
Heckman, William F., Newport, and O. C. Haggard, Dayton, assignors to Higgin Products, Inc., Newport, Ky. Rolling closure structure. 2,284,052; May 26.
Hedenskoog, Ernest, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Pin setting machine. 2,284,208; May 26.
Hedges, Don F., Gary, Ind. Assembling metallic articles and the like for shipment. 2,283,930; May 26.
Hedges, Don F., Gary, Ind. Assembling metallic articles and the like for shipment. 2,284,616; May 26.
Hefle, John, Milwaukee, Wis. Flue cleaner. 2,284,391; May 26.
Heil Co., The. (See Frentzel, H. C., Jr., assignor.)
Heil Co., The. (See Frentzel, H. C., Jr., and French, assignors.)
Heil Co., The. (See Thwaits, Frederick G., assignor.)
Hein, George N., San Carlos, Calif. Packing gland with oversize floating gasket. 2,284,424; May 26.
Heiser, Myron G., Devon, Conn., assignor to General Electric Company. Electrical connector. 2,284,392; May 26.
Heller, Jules, Toronto, Ontario, Canada. Oscillating chair. 2,284,571; May 26.
Hemphill Company. (See Hutton, A. L., Jr., and St Pierre, assignors.)
Hemphill Company. (See Smith, William L., Jr., assignor.)
Henry, Alexander G., and H. C. Rodgers, Birmingham, Ala. Cloth roll. 2,284,425; May 26.
Henry, Guy J., Chicago, Ill. Charging and conditioning dehydrators. 2,283,989; May 26.
Henry, William, Jackson Heights, N. J. Hanger shelf. 2,284,393; May 26.
Hentrich, Winfrid, Dusseldorf-Reisholz, and R. Köhler, Dusseldorf, Germany, assignors, by mesne assignments, to The Procter & Gamble Company, Cincinnati, Ohio. Menaphthyl cellulose derivatives. 2,284,282; May 26.
Herman, Kenneth R., assignor to Vickers Incorporated, Detroit, Mich. Hydraulic pump or motor. 2,284,146; May 26.
Hermann, Siegwart, New York, N. Y. Gas mask. 2,284,053; May 26.
Hermann, Siegwart, New York, N. Y. Gas mask. 2,284,054; May 26.
Herrick, Heny N., Berkeley, assignor to Standard Oil Company of California, San Francisco, Calif. Method and apparatus for soil gas analysis. 2,284,147; May 26.
Herrmann, Karl L., South Bend, Ind. Cam forming fixture. 2,284,319; May 26.
Herron-Zimmers Moulding Company. (See Hall, William J., assignor.)
Hibbard, Hall L. (See Menasco, A. S., and Hibbard.)
Higgin Products, Inc. (See Heckman, W. F., and Haggard, assignors.)
High Frequency Light Corporation. (See Schwaneger, Heinrich E., assignor.)
Higley, Frank R., Cleveland Heights, assignor to The Bryant Heater Company, Cleveland, Ohio. Drum type dehumidifier. 2,283,990; May 26.
Hilkemeier, Louis G. (See Ball, C. F., and Hilkemeier.)
Hill, William H., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Separation of sulphur acid from carboxylic acids. 2,283,991; May 26.
Himes, Ross A., Piedmont, Calif. Making paper boxes. 2,284,283; May 26.
Hinde & Dauch Paper Company, The. (See Lonz, Norman H., assignor.)
Hineline, Edson S., assignor to The Folmer Graflex Corporation, Rochester, N. Y. Focal plane camera shutter and flash synchronizer. 2,284,486; May 26.
Hineline, Edson S., assignor to The Folmer Graflex Corporation, Rochester, N. Y. Photographic film magazine and feeding means, particularly for photorecording cameras. 2,284,487; May 26.
Hineman, George L., assignor to Bell Aircraft Corporation, Buffalo, N. Y. Antishimmy device. 2,284,148; May 26.
Hinman, Wilbur S., Jr. (See Diamond, H., and Hinman, Jr.)
Hirsch, Homer C., El Paso, Tex. Material classifier. 2,283,992; May 26.
Holder, Joseph R., assignor of one-half to C. N. Johnson and W. Johnson, both of Fremont, Nebr., jointly, with right of survivorship. Spotting table. 2,284,572; May 26.
Hollmann, Hubert, and W. G. Van Voorhis, Findlay, Ohio, assignors to The Buckeye Traction Ditcher Company. Digging wheel structure. 2,284,573; May 26.
Holm, Charles B., Lyons, Ill. Novelty or flag display. 2,284,209; May 26.
Holtz, Frederick C., and C. H. Lanphier, assignors to Sangamo Electric Company, Springfield, Ill. Production indicating apparatus. 2,283,993; May 26.
Hopkins, Frank H., Fairfield, Conn., assignor to Manning, Maxwell & Moore, Incorporated, New York, N. Y. Instrument. 2,283,994; May 26.
Hotchkiss, Clarence F., Jr., assignor to Stow Manufacturing Company, Inc., Binghamton, N. Y. Flexible shafting. 2,284,090; May 26.
Houston Oil Field Material Company. (See Justice, George E., assignor.)
Howe, Earl E., Royal Oak, Mich. Hinge guard. 2,284,320; May 26.
Howe, Wilfred H., Sharon, assignor to The Foxboro Company, Foxboro, Mass. Control apparatus. 2,283,927; May 26.
Howland, Louis H., Cheshire, Conn., assignor to United States Rubber Company, New York, N. Y. Treatment of rubber. 2,284,284; May 26.
Howsam, Hilyard C., assignor to Hubbard Spool Company, Chicago, Ill. Spool. 2,284,426; May 26.
Hubbard Spool Company. (See Howsam, Hilyard C., assignor.)
Hudson Motor Car Company. (See Greig, James W., assignor.)
Hufferd, George H., and M. P. Graham, assignors to Crawford Door Company, Detroit, Mich. Roller construction. 2,284,427; May 26.
Huggins, Leroy G., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Air conditioning apparatus. 2,283,928; May 26.
Hughes, Everett C. (See Burk, R. E., and Hughes.)
Hughes, Harry B., Bandon, Oreg. Hydraulic tie puller. 2,283,929; May 26.
Hughes Tool Company. (See Castellanos, Leopold J., assignor.)
Hultzsch, Kurt. (See Lemmer, F., and Hultzsch.)
Hüniger, Magdalene, Berlin-Charlottenburg, and H. Panke, Berlin, Germany, assignors to General Electric Company. Luminescent glass. 2,284,055; May 26.
Hunt, Henry M. (See Grant, J. W., and Hunt.)
Hunter, James H., Lansdowne, Pa., assignor to Radio Corporation of America. Phonograph record. 2,284,091; May 26.
Hurley, Roy T. (See Briechle, A., Hurley, and Merritt.)
Hurt, Victor H., Cranston, R. I., assignor to United States Rubber Company, New York, N. Y. Method of covering balls. 2,284,265; May 26.
Hutton, Alfred L., Jr., Lonsdale, and E. St. Pierre, Pawtucket, assignors to Hemphill Company, Central Falls, R. I. Knitting machine and knitting. 2,283,995; May 26.
Hyde, Merritt A., Jr., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Explosionproof circuit interrupting apparatus. 2,284,613; May 26.

Hygrade Sylvania Corporation. (See Kingston, Walter E., assignor.)
Hygrade Sylvania Corporation. (See Rishell, George L., assignor.)
Iavelli, Teno. (See Neracher, C. A., Dunn, Iavelli, Syrovy, and Schotz.)
Imperial Brass Manufacturing Company, The. (See Condon, Ernest E., assignor.)
Imperial Chemical Industries Limited. (See Habgood, B. J., Isaacs, and Morgan, assignors.)
Indergand, Josef, assignor to Landis & Gyr, A-G., Zug, Switzerland. Electricity meter. 2,284,428; May 26.
Indge, Herbert S., Westboro, assignor to Norton Company, Worcester, Mass. Lapping machine. 2,284,056; May 26.
Industrial Rayon Corporation. (See Kline, Hayden B., assignor.)
Industrial Rayon Corporation. (See Torrence, G. P., Bergmann, and Knebusch, assignors.)
Insua, Julio N., Buenos Aires, Argentina. Wind motor with variable pitch automatic speed control. 2,284,521; May 26.
Interchemical Corporation. (See Gans, David M., assignor.)
Interchemical Corporation. (See Gessler, A. E., Gans, and Greubel, assignors.)
Interchemical Corporation. (See Greubel, Paul W., assignor.)
International Cigar Machinery Company. (See Halsted, John F., assignor.)
International Derrick & Equipment Company of Texas. (See Booker, Curtis G., assignor.)
International Standard Electric Corporation. (See Kozma, L., and Kruithof, assignors.)
International Telephone & Radio Manufacturing Corporation. (See Alford, Andrew, assignor.)
Irwin, Ernest R., Dayton, Ohio. Rust preventive compound. 2,283,931; May 26.
Irwin, Kenneth M. (See Irwin, Samuel J. and K. M.)
Irwin, Samuel J., Chester, and K. M. Irwin, Coatesville, Pa. Electrode holder. 2,283,996; May 26.
Isaacs, Elias. (See Habgood, B. J., Isaacs, and Morgan.)
Jackson, Ross F. (See Van Buren, E. G., and Jackson.)
Jacobs, E. H., Mfg. Co. (See Clark, Breckinridge T., assignor.)
Jacobsson, Wilgot J., Plainfield, N. J., and C. V. Eskridge, Chicago, Ill., assignors to Oxweld Acetylene Company. Apparatus for cutting or deseaming metal. 2,284,574; May 26.
Jarrett, Tracy C. (See Wrighton, W. J., and Jarrett.)
Jensen, Jens C., Santa Barbara, Calif. Drawing table. 2,283,997; May 26.
Jirousek, Joseph F., assignor to The Chandler & Price Company, Cleveland, Ohio. Feeding mechanism for printing presses. 2,284,429; May 26.
Jirousek, Joseph F., assignor to The Chandler & Price Company, Cleveland, Ohio. Sheet feeding mechanism. 2,284,430; May 26.
Johnson, Arthur B., University Heights, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Closing the ends of tubular bodies. 2,284,210; May 26.
Johnson, Carl A., Celoron, and J. A. Greenfield, assignors to Art Metal Construction Company, Jamestown, N. Y. Locking means for lockers and the like. 2,284,092; May 26.
Johnson, Charles D., assignor to Johnson Steel and Wire Company, Inc., Worcester, Mass. Pot for use in heat treating bundles of wire. 2,284,057; May 26.
Johnson, Charles N., et al. (See Holder, Joseph R., assignor.)
Johnson, Francis C., assignor to The Hadley Company Limited, Surbiton, England. Molded chute or guide for machine gun cartridge belts. 2,284,488; May 26.
Johnson, James B., assignor to M. A. Johnson, Cleveland, Ohio. Feeding machine for rolling mills. 2,284,575; May 26.
Johnson, Mary A. (See Johnson, James B., assignor.)
Johnson Steel and Wire Company. (See Johnson, Charles D., assignor.)
Johnson, Winifred, et al. (See Holder, Joseph R., assignor.)
Jones, Charles B. (See Richa, John H., assignor.)
Jones, Earl E., Houston, Tex. Construction form. 2,284,149; May 26.
Jones, Everett P., Elizabeth, N. J., assignor to Oxweld Acetylene Company. Blowpipe and rod-feeding mechanism therefor. 2,283,932; May 26.
Jones, Kennie M., and W. H. De Baugh, Baltimore, Md., assignors to Line Material Company, Milwaukee, Wis. Apparatus for applying clips. 2,283,933; May 26.
Jones, Paul C., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Vulcanizable rubber compositions. 2,284,578; May 26.
Jones, Paul C., Akron, Ohio, assignor to B. F. Goodrich Company, New York, N. Y. Vulcanization of rubber. 2,284,579; May 26.
Jones, Paul C., and R. A. Mathes, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Vulcanization of rubber. 2,284,576; May 26.
Jones, Paul C., and R. A. Mathes, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Vulcanization of rubber. 2,284,577; May 26.
Jordan, Arthur W., Pittsburgh, Pa., assignor to Shade Control, Inc. Identification and article produced thereby. 2,284,093; May 26.
Jordan, Arthur W., Pittsburgh, Pa., assignor to Shade Control, Inc. Impression member. 2,284,095; May 26.
Jordan, Arthur W., Washington, D. C., assignor to Shade Control, Inc. Machine for recording data on wall paper. 2,284,094; May 26.
Jorgensen Engineering, Inc. (See Jorgensen, James P., assignor.)
Jorgensen, James P., assignor to Jorgensen Engineering, Inc., Beloit, Wis. Lamp socket. 2,283,934; May 26.
Junkers Flugzeug-und-Motorenwerke Aktiengesellschaft. (See Müller, Max A., assignor.)
Justice, George E., assignor to Houston Oil Field Material Company, Inc., Houston, Tex. Cutting well casings or pipes. 2,284,211; May 26.
Kaiser, Henry A. and L., Ronan, and G. R. Shepard, Missoula, Mont. Headrest. 2,284,058; May 26.
Kaiser, Leo. (See Kaiser, H. A. and L., and Shepard.)
Kammerer, Archer W., Fullerton, Calif. Well drilling bit. 2,284,580; May 26.
Kanzow, Willie M., Knoxville, Tenn. Handbag. 2,284,212; May 26.
Karas, Steve, Gary, Ind. Brush. 2,284,213; May 26.
Katscher, Ernst. (See Wiesner, B. P., and Katscher.)
Kauffman, Walter L., II, assignor to Lovell Manufacturing Company, Erie, Pa. Wringer and the like. 2,284,285; May 26.
Kearney, Daniel P., Birmingham, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starting apparatus. 2,284,431; May 26.
Keen, Charles A., assignor to L. O. Beard Tool Company, Lancaster, Pa. Bushing reaming and driving tool. 2,284,522; May 26.
Kehm, Horace S., and C. G. Newton, Chicago, Ill.; said Newton assignor to said Kehm. Heating system valve. 2,284,059; May 26.
Kelch Heater Company. (See Caldwell, Stuart H., assignor.)
Kellog, Henry B., Union City, N. J., and P. J. Gaylor, Staten Island, N. Y., assignors to Standard Oil Development Company. Nitrated petroleum phenol composition. 2,284,523; May 26.
Kellogg, M. W., Company, The. (See Belchetz, A., and Finlayson, assignors.)
Kelly, George L., Houston, Tex. Timber coupling. 2,284,214; May 26.
Kemmerer, Ralph R., Swissvale, and C. E. Staples, Edgewood, assignors to The Union Switch & Signal Company, Swissvale, Pa. Absolute permissive block system of railway signaling. 2,283,998; May 26.
Kemna, Gustav, Babelsberg, assignor to Universum-Film Aktiengesellschaft, Berlin, Germany. Film inspecting apparatus. 2,284,150; May 26.
Kenmar Manufacturing Company. (See Skinner, Edward D., assignor.)
Kenmore Machine Products, Inc. (See Smith, George W., and J. A., assignors.)
Kennedy, Harold J., Larchmont, N. Y. Roasting apparatus. 2,284,096; May 26.
Kennedy, James A., Los Angeles, Calif. Plastic. 2,284,432; May 26.
Kilgore Mfg. Company, The. (See Rickenbacher, Robert J., assignor.)
Kimball, Benjamin M., Gilman, Vt., assignor to Millett Corporation, New York, N. Y. Apparatus for making paper cord. 2,284,321; May 26.
Kimball, Vernon R., Union City, N. J., and R. F. Dirkes, Jamaica, assignors to The Western Union Telegraph Company, New York, N. Y. Telegraph keyboard transmitter. 2,284,322; May 26.
Kimmel, George P., Brookeville, Md., assignor to The Ful-Vue Sales Company, Providence, R. I. Ophthalmic mounting. 2,284,524; May 26.
King, Archie P., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission, radiation, and reception of electromagnetic waves. 2,283,935; May 26.
King, Victor I. (See Wintringham, A. C., and King.)
Kingery, Leroy F., assignor to Shober Sales, Inc., Stockton, Calif. Welder. 2,284,323; May 26.
Kingston, Walter E., assignor to Hygrade Sylvania Corporation, Emporium, Pa. Unitary stem and contact base for electron tubes and the like. 2,284,151; May 26.
Klabunde, Henry W., Cleveland, Ohio, assignor to American Telephone and Telegraph Company. Typing mechanism. 2,284,324; May 26.
Klages, Henry W., Echo, Oreg. Excavator. 2,284,215; May 26.
Klein, Kenneth J., Erie, Pa. Tool holder. 2,284,394; May 26.
Kligman, Aaron R., Philadelphia, Pa. Valve for hydraulic power-transmission systems. 2,284,615; May 26.
Kline, Hayden B., Lakewood, assignor to Industrial Rayon Corporation, Cleveland, Ohio. Apparatus for the manufacture of thread or the like. 2,289,489; May 26.
Kline, John E., Grosse Pointe Farms, assignor to Micromatic Hone Corporation, Detroit, Mich. Honing machine. 2,284,325; May 26.

Kanuth Walter T. Houston, Tex. Measuring and recording liquid density. 2,284,060; May 26.
Kneubusch, Walter F. (See Torrence, G. P., Bergmann, and Kneubusch.)
Knocke, Louis T., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Piston. 2,284,152; May 26.
Knox, Harry A., Washington, D. C. Track for track-laying vehicles. 2,283,936; May 26.
Köhler, Rudolph. (See Hentrich, W., and Kohler.)
Kohlhagen, Walter, Elgin, Ill. Self-starting synchronous-electric motor. 2,284,395; May 26.
Korda, Eugene J., New York, N. Y. Heel. 2,284,326; May 26.
Korda, Eugene J., New York, N. Y. Heel. 2,284,327; May 26.
Korda, Eugene J., New York, N. Y. Heel. 2,284,328; May 26.
Korsmo, Alfred, Hopkins, and M. Ronning, St. Louis Park, assignors to Minneapolis-Moline Power Implement Company, Minneapolis, Minn. Grain pan for combines. 2,284,433; May 26.
Korte, Henry C. F., St. Louis, Mo. Mechanical exercising device. 2,284,061; May 26.
Koupal, Walter G. (See Halbach, H. L., Koupal, and Owen.)
Kozma, Ladislas, and J. Kruithof, Antwerp, Belgium, assignors to International Standard Electric Corporation. Calculating equipment. 2,283,999; May 26.
Kraft, Herman T., assignor The General Tire & Rubber Company, Akron, Ohio. Making molds. 2,284,000; May 26.
Krick, Peter P., assignor to American Enka Corporation, Enka, N. C. Apparatus for use in the manufacture of rayon. 2,284,397; May 26.
Kron, Gabriel. (See Clymer, C. C., Kron and Concordia.)
Kreuger, Frank, assignor to E. W. Bliss Company, Brooklyn, N. Y. Container handling apparatus. 2,284,286; May 26.
Kruithof, Jakob. (See Kozma, L., and Kruithof.)
Kuhl, Paul E., Madison, N. J., assignor to Standard Oil Development Company. Treating hydrocarbons. 2,284,581; May 26.
Kuhlmann, Arthur H., University City, Mo. Weather strip. 2,284153; May 26.
Kunkel, Elzy O., Sandoval, Ill., assignor of one-half to O. E. Elfick, Covington, Ky. High pressure union. 2,284,216; May 26.
Kutchka, Karl G., Wilkinsburg, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Method of and apparatus for supplying granular material. 2,284,398; May 26.
Kyrides, Lucas P., Webster Groves, assignor to Monsanto Chemical Company, St. Louis, Mo. Ethers of protocatechuic aldehyde. 2,284,287; May 26.
Laise, Clemens A., deceased, late of Tenafly, N. J., Fidelity Union Trust Company, Newark, N. J., executor, assignor to Callite Tungsten Corporation, Union City, N. J. Lamp-making method. 2,284,288; May 26.
La Jone, Nicholas, Sr., Chicago, Ill. Continuous electrical outlet. 2,284,097; May 26.
Lake, John E., Schenectady, N. Y., assignor to General Electric Company. Snap switch. 2,284,437; May 26.
Lambert, Leo J., Danvers, Mass., assignor to The Turner Tanning Machinery Company, Portland, Maine. Staking machine. 2,284,001; May 26.
Lampton, Glen T., P. F. Hackethal, and A. T. Briggs, Williamsport, Pa., assignors, by mesne assignments, to The Aviation Corporation New York, N. Y. Automatic controllable pitch propeller. 2,284,154; May 26.
La Nationale S. A., et al. (See Bolle, Léon, assignor.)
Landgraf, Myron J., assignor to H. J. Goldblatt, Chicago, Ill. Food mixer. 2,284,155; May 26.
Landis & Gyr. A-G. (See Indergand, Josef, assignor.)
Lang, Richard T., Heidenheim-on-the-Brenz, Germany, assignor to American Voith Contact Co. Inc., New York, N. Y. Paper making machine. 2,284,098; May 26.
Langer, Olgierd G., Philadelphia, Pa. Wrist band. 2,284,582; May 26.
Lanphier, Charles H. (See Holtz, F. C., and Lanphier.)
Larchar, Arthur W., Wilmington, Del., and H. S. Young, Fairville, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Process for the hydrogenation of adiponitrile. 2,284,525; May 26.
Larsen-Boles Tool Company. (See Baureschmidt, Frank W., assignor.)
Lehnhoff, Richard A. (See Madland, G., and Lehnhoff.)
Lely, Anton, Velp (Gld), and G. Eeninkwinkel, Arnhem, Netherlands, assignors to American Enka Corporation, Enka, N. C. Apparatus for the manufacture of artificial materials. 2,284,399; May 26.
Lemmer Fritz, Wiesbaden, and K. Hultzsch, Wiesbaden-Biebrich, Germany, assignors to The Resinous Products & Chemical Company, Philadelphia, Pa. Esters of terpene phenols. 2,284,156; May 26.
Leonard, Arthur S., Davis, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Orchard heater. 2,284,157; May 26.
Lesti, Arnold, Glendale, Calif., assignor to American Telephone and Telegraph Company. Telephone system. 2,284,329; May 26.
Lewis, Alexander J., Chicago, Ill. Apparatus for automatic soil sprinkling systems. 2,284,158; May 26.
Lewis, Warren K., Newton, Mass., assignor to Standard Oil Development Company. Treating hydrocarbon oils with light hydrocarbons. 2,284,583; May 26.
Lieberthal, Robert H., Bridgeport, Conn. Toothbrush pack. 2,284,217; May 26.
Lindenblad, Nile E., Port Jefferson, N. Y., assignor to Radio Corporation of America. High voltage generator. 2284,159; May 26.
Lindenblad, Nils E., Port Jefferson, N. Y., assignor to Radio Corporation of America. Antenna. 2,284,434; May 26.
Lindsay, Maxwell H. A., Summit, N. J., assignor to The American District Telegraph Company, New York, N. Y. Photoelectric signaling system. 2,284,289; May 26.
Line Material Company. (See Jones, K. M., and De Baugh, assignors.)
Linsley, Frank J., Pasadena, Calif. Postal scale. 2,284,526; May 26.
Livingston, Jay K., Houston, Tex. Dispensing container. 2,284,218; May 26.
Llewellyn, Frederick T., Pittsburgh, Pa., and W. S. Painter, New York, N. Y., assignors to United States Steel Corporation of New Jersey. Thermal insulation. 2,284,400; May 26.
Loftus, Fred H., Pittsburgh, Pa. Valve mechanism for reversing furnaces. 2,284,330; May 26.
Lon-Ga-Tone, Inc. (See Stevens, Edwin F., assignor.)
Long, Frank V. (See Pfeiffer, Walter, assignor.)
Lontz, John F., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Composition and method (plant stimulant). 2,284,002; May 26.
Lonz, Norman H., assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio. Exhibition package. 2,284,527; May 26.
Loughren, Arthur V., Great Neck, N. Y., assignor to Hazeltine Corporation. Signal wave form indicating system. 2,284,219; May 26.
Lovell Manufacturing Company. (See Kauffman, Walter L., II, assignor.)
Lowe, Vernon J., and A. W. Bean, Marengo, Ill., assignors to The Borden Company, New York, N. Y. Apparatus for producing cooked casein. 2,284,435; May 26.
Lueckel, William J., assignor to Dunning Lueckel Engineering Company New York, N. Y. Gravity conveyer. 2,284,490; May 26.
Lundgren, Herbert K., Ripon, Wis. Combination sash balance and weather strip. 2,284,436; May 26.
Lundgren, Herbert K., Ripon, Wis. Combination sash balance and weather strip. 2,284,438; May 26.
Luppert, Valentine C., Williamsport, Pa. Table leaf support operating means. 2,284,003; May 26.
MacArthur, Roger A., and H. W. Greider, Wyoming, Ohio, assignors to The Philip Carey Manufacturing Company. Heat insulation structure and making the same. 2,284,439; May 26.
Machin, Willis H. (See McKnight, R. L., and Machin.)
Mack, Charles, Sarnia, Ontario, Canada, assignor to Standard Oil Development Company. Preparation of paving compositions. 2,283,937; May 26.
MacKay, John R., West Caldwell, assignor to Wallace & Tiernan Products, Inc., Belleville, N. J. Voltmeter apparatus. 2,284,476; May 26.
Madland, Gabriel, Chicago, Ill., and R. A. Lehnhoff, Hammond, Ind., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Door lock. 2,284,099; May 26.
Mahnquist, Walter A., Post Mills, Vt. Sweeper brush. 2,284,528; May 26.
Mandekic, Anthony V., Los Angeles, Calif. Locking device for vehicle wheels. 2,284,220; May 26.
Mandell, Irving F., New Rochelle, assignor to Reinforced Paper Bottle Corporation, New York, N. Y. Adhesive applicator for cylindrical container interiors. 2,284,491; May 26.
Mandell, Irving F., New Rochelle, assignor to Reinforced Paper Bottle Corporation, New York, N. Y. Automatic duplex mechanism for spinning container closures. 2,284,492; May 26.
Manley, Jack M., East Orange, and L. R. Wrathall, River Edge, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Modulation circuit. 2,284,401; May 26.
Manley, Jack M., East Orange, and L. R. Wrathall, River Edge, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Modulation circuit. 2,284,402; May 26.
Manning, Maxwell & Moore, Incorporated. (See Hopkins, Frank H., assignor.)
Marquart, Frank, Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey. Automatic means for controlling a welding machine. 2,284,403; May 26.
Marsac, Leonard C. (See Peets, W. J., Graesser, and Marsac.)
Marsh, Jas. P., Corporation. (See Seegers, H., and Pollard, assignors.)
Marshall, Courtenay D., Beaumont, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Dewaxing oil. 2,284,607; May 26.
Marshall, Richard C., Jr., Kansas City, assignor to Edward N. Crook, Johnson County, Kans. Bottle carrier. 2,284,290; May 26.
Martin, Harry D., Albion, N. Y. Switch for lathes. 2,284,404; May 26.

Martin, Homer Z., Elizabeth, N. J., assignor to Standard Oil Development Company. Regeneration of contact masses. 2,284,584; May 26.
Martin, James D. (See Bert, Samuel.)
Martin, Verne O., Fort Peck, Mont. Engine. 2,284,608; May 26.
Marwood, Tom, Hythe, assignor to H. Scott-Paine, Hythe, Southampton, England. Torpedo tube. 2,284,331; May 26.
Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave transmission network. 2,284,529; May 26.
Mathes, Roger A. (See Jones, P. C., and Mathes.)
May, John W., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Fuse construction. 2,284,291; May 26.
McArthur, Elmer D., Schenectady, N. Y., assignor to General Electric Company. High frequency apparatus. 2,284,405; May 26.
McCann, Franklin A., Pasadena, assignor to Pacific Clay Products Company, Los Angeles, Calif. Mold filling apparatus. 2,284,332; May 26.
McCarty, Daniel J., Los Angeles, Calif. Device for placing bag covers over garments. 2,284,160; May 26.
McCleary, Ray L., Richardson Park, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Pigment treatment. 2,284,585; May 26.
McCorkle, Miles R. (See Ralston, A. W., and McCorkle.)
McCracken, Collin P. (See Weber, A. J., and McCracken.)
McCullough, Neel M. (See Roof, Robert M., assignor.)
McCurdy, Howard A., Fort Lewis, Wash. Resilient safety latch. 2,284,004; May 26.
McDermott, Joseph B., Danville, Ill. Visible multiple record. 2,284,586; May 26.
McElgin, John, assignor to John J. Nesbitt, Inc., Philadelphia, Pa. Air conditioning apparatus. 2,284,161; May 26.
McGay, John B., Tulsa, assignor to Dual Parking Meter Company, Oklahoma City, Okla. Parking meter. 2,284,221; May 26.
McGirl, Charles F., Van Nuys, and H. Harman, Los Angeles, Calif. Bicycle. 2,284,333; May 26.
McGuire, John R. (See Boes, W. W., and McGuire.)
McKesson, Lewis J., Port Jefferson, N. Y., assignor to Radio Corporation of America. Antenna system. 2,283,938; May 26.
McKiernan, James D., Brooklyn, assignor to Air Reduction Company, Incorporated, New York, N. Y. Gas cutting apparatus. 2,284,005; May 26.
McKnight, Robert L., Watertown, and W. H. Machin, Middlebury, assignors to Scovill Manufacturing Company, Waterbury, Conn. Lipstick container. 2,284,162; May 26.
McLaughlin, Harold J. (See Barreda, J. C., and McLaughlin.)
McLellan, Samuel T., South Charleston, W. Va. Plate clamp or grapple. 2,284,006; May 26.
McNeight, Samuel A. (See Reichert, J. S., McNeight, and Elston.)
Meigs, Frederick M., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Nonfibrous films. 2,284,100; May 26.
Menasco, Albert S., San Gabriel, and H. L. Hibbard, North Hollywood, Calif., assignors, by mesne assignments, to Vega Aircraft Corporation. Multiple motor drive for aircraft propellers. 2,284,473; May 26.
Mercier, Pierre E., Paris, France. Exhaust device for internal combustion engines. 2,284,334; May 26.
Merritt, George E. (See Briechle, A., Hurley, and Merritt.)
Mervis, Lou. (See Cullin, Jasper F., assignor.)
Metal Tube Shaping Corporation. (See Dewey, Clarence L. and S. L., assignors.)
Metzdorf, George R., assignor to The Dole Valve Company, Chicago, Ill. Air valve. 2,284,007; May 26.
Metzler, Charles, Cincinnati, Ohio. Portable burglar alarm. 2,284,292; May 26.
Meyer, Edwin M., Parkersburg, W. Va., assignor to Porcelain Products, Inc., Findlay, Ohio. Bushed transformer terminal. 2,284,530; May 26.
Meyer, Erich O., Teaneck, N. J., assignor to Consolidated Edison Company of New York, Inc., New York, N. Y. Polystyrene product. 2,284,335; May 26.
Micafil Ltd. (See Wirth, Otto, assignor.)
Micromatic Hone Corporation. (See Connor, Kirke W., assignor.)
Micromatic Hone Corporation. (See Kline, John E., assignor.)
Mieg, Walter, Opladen, and F. Wieners, Cologne-Stammheim, Germany, assignors to General Aniline & Film Corporation. Vat dyestuffs of the phthaloyl carbazole series. 2,284,062; May 26.
Miller, Isadore, Trenton, N. J. Audible meter. 2,284,008; May 26.
Miller, Rulolph W., Winona, Minn. Journal lubricator. 2,283,939; May 26.
Miller, William C., and E. Boughton, assignors to Diebold Safe & Lock Co., Canton, Ohio. Ledger safe and the like. 2,284,531; May 26.
Miller, William H., Royal Oak, assignor to The Flex-O-Tube Company, Detroit, Mich. Mounting fastening device. 2,284,222; May 26.
Millett Corporation. (See Kimball, Benjamin M., assignor.)
Mills, Kenneth A., Memphis, Tenn. Refrigerator. 2,284,293; May 26.
Milprint, Inc. (See Brooks, William H., assignor.)
Minneapolis-Honeywell Regulator Company. (See Ashcraft, Joseph P., assignor.)
Minneapolis-Honeywell Regulator Company. (See Sparrow, Hubert T., assignor.)
Minneapolis-Molipe Power Implement Company. (See Korsmo, A., and Ronning, assignors.)
Modine, Hugo G., assignor to Otarion, Inc., Chicago, Ill. Receiver. 2,284,063; May 26.
Moir, Harry L. (See Backoff, W. J., Williams, O'Loughlin, Moir, and Yule.)
Molins Machine Company Limited. (See Best, Cyril, assignor.)
Monk, Newton. (See Green, E. I., and Monk.)
Monsanto Chemical Company. (See Kyrides, Lucas P., assignor.)
Moody, Lewis F., Princeton, N. J., assignor, by mesne assignments, to The Baldwin Locomotive Works. Rotary hydraulic machine. 2,284,295; May 26.
Morgan, Adolph R., Merchantville, N. J., assignor to Radio Corporation of America. Amplifier. 2,284,064; May 26.
Morgan, Leslie B. (See Habgood, B. J., Isaacs, and Morgan.)
Morgan, Porter S., assignor to The Capewell Manufacturing Company, Hartford, Conn. Work-holding apparatus. 2,284,223; May 26.
Morris, Howard I., assignor of one-third to C. M. Yoder, and one-third to H. O. Yoder, Lakewood, Ohio. Welding apparatus. 2,283,940; May 26.
Morris, Howard I., assignor of one-third to C. M. Yoder, and one-third to H. O. Yoder, Lakewood, Ohio. Welding apparatus. 2,283,941; May 26.
Morris, Howard I., assignor of one-third to C. M. Yoder, and one-third to H. O. Yoder, Lakewood, Ohio. Welding apparatus. 2,283,942; May 26.
Morrison, Noah E., Prospect Park, Pa. Boring machine. 2,284,336; May 26.
Morrissey, Joseph V., Waukegan, Ill., assignor to The American Steel and Wire Company of New Jersey. Eave trough protector. 2,284,440; May 26.
Mueller, Adolf G. (See De Reamer, F. C., and Mueller.)
Muench, Eugene J., M. L. Greene, St. Louis, Mo., assignors to American Telephone and Telegraph Company. Telegraph circuit. 2,284,296; May 26.
Mulert, Theodor and F. Rudert, assignors to Fernseh G. m. b. H., Berlin-Zehlendorf, Germany. Saw-tooth current generator. 2,284,337; May 26.
Müller, Max A., Biederitz, near Magdeburg, Germany, assignor to Junkers Flugzeug-und-Motorenwerke Aktiengesellschaft. Regulation of blowers. 2,284,587; May 26.
Murad, Wadia H., Watford, England. Change speed transmission gear. 2,284,441; May 26.
Murphy, Edward, Linden, N. J., assignor to Wilson-Jones Company, Chicago, Ill. Loose leaf binder. 2,284,009; May 26.
Myer, James E., assignor to Timber Engineering Company, Washington, D. C. Plate timber connector and joint. 2,283,943; May 26.
Myers, F. E., & Bro. Co., The. (See Zehner, William H., assignor.)
Myers, Robert J., Elkins Park, assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. Plasticized waxes. 2,284,065; May 26.
Napier, Clive H. K., Cricklewood, assignor to Handley Page Limited, Cricklewood, Middlesex, England. Portable winch. 2,284,532; May 26.
Naplernla, Paul W., Reedpoint, Mont. Shirt collar. 2,284,297; May 26.
Nardone, Romeo M., Westwood, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starting mechanism. 2,284,338; May 26.
National Folding Box Company. (See Ringler, William A., assignor.)
Nauert, Carl H., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigerator. 2,284,339; May 26.
Naugler, Walter E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Folding machine. 2,284,010; May 26.
Nelson, Nels C., et al. (See Watkins, William F., assignor.)
Neracher, Carl A., W. T. Dunn, T. Iavelli, A. J. Syrovy and O. W. Schotz, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Power transmission. 2,284,224; May 26.
Nesbitt, John J., Inc. (See McElgin, John, assignor.)
Neuman, Chaim J., London, England. Grease gun. 2,284,533; May 26.
New Jersey Machine Corporation. (See von Hofe, George W., assignor.)
Newton, Courtland G. (See Kehm, Horace S., assignor.)
Newton, John C., Bayside, N. Y. Servo system for airplanes and other vehicles. 2,284,298; May 26.
Nichols Engineering & Research Corporation. (See Burgess, S., and Schoeppel, assignors.)

Noll, Henry D., Wenonah, N. J., and O. L. Branson, Beaumont, Tex., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Combination cracking operation. 2,284,493; May 26.
Norris, John S. (See Parker, Harry A., assignor.)
Norris, Robert B., St. Louis Park, assignor to Schaefer, Inc., Minneapolis, Minn. Dispensing cabinet. 2,284,225; May 26.
North American Rayon Corporation. (See Stoeckly, J. J., and Profft, assignors.)
Norton Company. (See Flygare, C. G., and Alvord.)
Norton Company. (See Garside, John I., assignor.)
Norton Company. (See Indge, Herbert S., assignor.)
Norton Company. (See Silven, Herbert A., assignor.)
Nuckles, Herman Ray, La Crescenta, Calif. Packing. 2,284,340; May 26.
Oakley, Laurence M., assignor to Essex Rubber Company, Trenton, N. J. Rubber mat. 2,284,494; May 26.
O'Brien, Joseph F., Jersey City, N. J., assignor to John B. Pierce Foundation, New York, N. Y. Electricity conductor unit and using same. 2,284,163; May 26.
O'Dell, James W. (See De Board, Dewey R., assignor.)
Ogden, Harold S., Erie, Pa., assignor to General Electric Company. Locomotive control system. 2,284,442; May 26.
Oglesby, Richard W., Des Moines, Iowa. Wagon dump device. 2,284,226; May 26.
Oliver, Wallace F., assignor to Bendix Home Appliances, Inc., South Bend, Ind. Solenoid. 2,284,011; May 26.
O'Loughlin, John F. (See Backoff, W. J., Williams, O'Loughlin, Moir and Yule.)
Orth, Richard, assignor to Gill Glass & Fixture Company, Philadelphia, Pa. Lighting fixture. 2,284,534; May 26.
Ostrander, Dezell, Coco Solo, Canal Zone. Puncturing device for containers. 2,284,066; May 26.
Otarion, Inc. (See Modine, Hugo G., assignor.)
Otarion, Inc. (See Schauer, Walter E., assignor.)
Otis Elevator Company. (See Watson, Gavin, assignor.)
Owen, Lewis R., Cuyahoga Falls, Ohio. Tire-display stand. 2,284,299; May 26.
Owen, William. (See Halbach, H. L., Koupal, and Owen.)
Oxweld Acetylene Company. (See Jacobsson, W. J., and Eskridge, assignors.)
Oxweld Acetylene Company. (See Jones, Everett P., assignor.)
Paca, John P., assignor to Diebold Safe & Lock Company, Canton, Ohio. Building construction. 2,284,012; May 26.
Pacific Clay Products Company. (Se McCann, Franklin A., assignor.)
Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
Paehr, Hans W., Berlin-Charlottenburg, assignor to Fernseh G. m. b. H., Berlin-Zehlendorf, Germany. Magnetic electron lens. 2,284,227; May 26.
Page, Handley, Limited. (See Napier, Clive H. K., assignor.)
Page, Herbert E., Syracuse, N. Y. Pressure multiplying mechanism. 2,284,228; May 26.
Painter, Walter S. (See Llewellyn, F. T., and Painter.)
Palmer, George V., Los Angeles, Calif. Metal wall building construction. 2,284,229; May 26.
Palnut Company, The. (See Beggs, Alan H., assignor.)
Panke, Hans. (See Hüniger, M., and Panke.)
Paradise, Raymond P., Indianapolis, Ind. Blanket spray nozzle. 2,284,443; May 26.
Pardoe, William S., Merion, Pa. Venturi tube or meter. 2,284,013; May 26.
Park, Kendall, Barcelona, Spain. Sharpening or honing appliance. 2,284,535; May 26.
Parker, Harry A., assignor of one-half to J. S. Norris, Langley, S. C. Sheet metal cutting tool. 2,284,536; May 26.
Parker, Ted M., Kansas City, Mo. Fishing apparatus. 2,284,537; May 26.
Parkes, John S., Birmingham, assignor to General Motors Corporation, Detroit, Mich. Head-lamp mounting. 2,284,538; May 26.
Parrott, Robert D., West New York, G. L. Erickson, Hasbrouck Heights, and R. J. Wise, Dunellen, N. J., assignors to The Western Union Telegraph Company, New York, N. Y. Apparatus for facsimile telegraphy. 2,283,944; May 26.
Patent License Corporation. (See Arenberg, Albert L., assignor.)
Patterson, Riley J. (See Claytor, Jacob P.)
Peck, Clarence E., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Direct fired cylindrical bell type furnace. 2,284,014; May 26.
Pedersen, Charles J. (See Downing, F. B., and Pedersen.)
Peets, Wilbur J., and D. A. Graesser, Elizabeth, and L. C. Marsac, Cranford, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Lubricated hook for sewing machines. 2,284,474; May 26.
Pennington, Gordon R. (See Breer, C., and Pennington.)
Peremi, Edmund, Manhasset, and L. Toth, Flushing, N. Y. Window construction. 2,284,539; May 26.
Peter, Leslie H., and D. G. Shipp, King's Cross, London, England, assignors by mesne assignments to The Union Switch and Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,284,015; May 26.
Peterson, Eugene, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Demodulation circuit. 2,284,444; May 26.
Peterson, Walker F., and A. U. Walter, assignors to Quiet Flow Devices, Inc., Baltimore, Md. Discharge valve. 2,283,945; May 26.
Petrusak, Andrew, Harvey, Ill. Keyless lock. 2,284,294; May 26.
Pettit, Fred H., Cordell, Okla. Therapeutic device. 2,284,445; May 26.
Pfeiffer, Walter, Huntington Park, assignor to Frank V. Long, doing business as The Vapor Recovery Systems Company, Compton, Calif. Gauging and sampling apparatus for pressure tanks. 2,284,396; May 26.
Philadelphia Quartz Company. (See Baker C. L., and Dedrick, assignors.)
Philip Carey Manufacturing Company, The. (See MacArthur, R. A., and Greider, assignors.)
Pickering, Norman C., assignor to C. G. Conn, Ltd., Elkhart, Ind. Wind musical instrument. 2,284,016; May 26.
Pierce, Glen S. (See Speck, W. C., and Pierce.)
Pierce, John B., Foundation. (See O'Brien, Joseph F., assignor.)
Piqua Products, Incorporated. (See Stockham, Gordon E., assignor.)
Pitman, Earle C., Red Bank, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of shoes. 2,283,946; May 26.
Pitman, Henry L., Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,284,017; May 26.
Pitt, William, Union, N. J., assignor to Wilson-Jones Company, Chicago, Ill. Permanent binding post. 2,284,018; May 26.
Pittsburgh Corning Corporation. (See Erath, George F., assignor.)
Pittsburgh Equitable Meter Company. (See Chrisman, Horace, assignor.)
Pittsburgh Plate Glass Company. (See Halbach, H. L., Koupal, and Owen, assignors.)
Pittsburgh Plate Glass Company. (See Kutchka, Karl G., assignor.)
Pittsburgh Plate Glass Company. (See Tharp, Forest S., assignor.)
Plebanski, Jozef, Warsaw, Poland. Radio direction finding system. 2,284,475; May 26.
Polaroid Corporation. (See Rogers, Howard G., assignor.)
Pollard, Willard L. (See Seegers, H., and Pollard.)
Pollock, Herbert C., Schenectady, N. Y., assignor to General Electric Company. Antifriction bearing. 2,284,446; May 26.
Porcelain Products, Inc. (See Meyer, Edwin M., assignor.)
Portal, De Witt A., San Jose, Calif. Boxing glove. 2,284,300; May 26.
Porter, Albert M., Newton, Kans. Hand starter for internal combustion engines. 2,284,230; May 26.
Porter, William T., St. Catherines, Ontario, Canada. Arch support. 2,284,164; May 26.
Porwancher, Samuel R., assignor to Drying Systems, Inc., Chicago, Ill. Heating system. 2,284,165; May 26.
Powell, Paul R., Baltimore, Md. Labeling apparatus. 2,284,019; May 26.
Powers, James H., Fort Wayne, Ind., assignor to General Electric Company. Antifriction bearing. 2,284,447; May 26.
Powers Regulator Company, The. (See Crump, Alvin L., and L., assignors.)
Praemassing, Adolf, Cologne-Merheim, Germany. Device for the production of metal band joints. 2,283,947; May 26.
Price, Garfield, Gary, Ind. Electric connector. 2,284,231; May 26.
Procter & Gamble Company, The. (See Heutrich, W., and Köhler, assignors.)
Profft, Elmar. (See Stoeckly, J. J., and Profft.)
Public National Bank and Trust Company of New York. (See Fay, Harold C., assignor.)
Pulleyblank, Harper E. (See Hammond, C. F., and Pulleyblank.)
Purcell, Thomas E., Talco, Tex. Cathead. 2,284,540; May 26.
Pure Oil Company, The. (See Backoff, W. J., Williams, O'Loughlin, Moir, and Yule, assignors.)
Pye, Carl F., Winnipeg, Manitoba, Canada. Tank filling device. 2,284,166; May 26.
Quiet Flow Devices, Inc. (See Peterson, W. F., and Walter, assignors.)
Quinby, Elliott P., Western Springs, Ill. Food strainer. 2,284,342; May 26.
Radio Corporation of America. (See Bond, Donald S., assignor.)
Radio Corporation of America. (See Brown, Andrew L., assignor.)
Radio Corporation of America. (See Carter, Philip S., assignor.)
Radio Corporation of America. (See Dow, Orville E., assignor.)

Radio Corporation of America. (See Gerber, Paul D., assignor.)
Radio Corporation of America. (See Goldstine, Hallan E., assignor.)
Radio Corporation of America. (See Hansell, Clarence W., assignor.)
Radio Corporation of America. (See Harvey, Robert L., assignor.)
Radio Corporation of America. (See Hunter, James H., assignor.)
Radio Corporation of America. (See Lindenblad, Nils E., assignor.)
Radio Corporation of America. (See McKesson, Lewis J., assignor.)
Radio Corporation of America. (See Morgan, Adolph R., assignor.)
Radio Corporation of America. (See Robins, Ben W., assignor.)
Radio Corporation of America. (See Rosencrans, Charles A., assignor.)
Radio Corporation of America. (See Spencer, James A., assignor.)
Radio Corporation of America. (See Usselman, George L., assignor.)
Ralston, Anderson W., and M. R. McCorkle, assignors to Armour and Company, Chicago, Ill. Mercurated aliphatic alcohols. 2,284,067; May 26.
Ralston, Walter E., Delavan, Wis., assignor to The George W. Borg Corporation, Chicago, Ill. Knitting machine. 2,284,167; May 26.
Rausch, Louis M., Neenah, Wis. Cap retainer for dispensing tubes. 2,284,020; May 26.
Reconstruction Finance Corporation. (See Westrope, Frederick J., assignor.)
Redner, Arthur D., assignor to General Filters Inc., Detroit, Mich. Filter. 2,284,447; May 26.
Reichert, Joseph S., S. A. McNeight, and A. A. Elston, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of peracids. 2,284,477; May 26.
Reinforced Paper Bottle Corporation. (See Mandell, Irving F., assignor.)
Reinholz, William H., Irondequoit, N. Y. Baby sleeping bag or sleeping cover. 2,284,448; May 26.
Resinous Products & Chemical Company, The. (See Bruson, Herman A., assignor.)
Resinous Products & Chemical Company, The. (See Lemmer, F., and Hultzsch, assignors.)
Resinous Products & Chemical Company, The. (See Myers, Robert J., assignor.)
Ricci, Anthony J., Yeadon, Pa. Weather strip and sash balance. 2,284,343; May 26.
Richa, John H., assignor of one-half to C. B. Jones, Kansas City, Mo. Method of and apparatus for finishing garments. 2,284,232; May 26.
Richardson Company, The. (See Rieser, Oliver D., assignor.)
Rickenbacher, Robert J., Columbus, assignor to The Kilgore Mfg. Company, Westerville, Ohio. Adjustable retractable tool. 2,284,168; May 26.
Ridgway, Herbert N., Winthrop, Mass. Automobile traction device. 2,283,948; May 26.
Rieser, Oliver O., Oak Park, Ill., assignor to The Richardson Company, Lockland, Ohio. Breaker strip construction. 2,284,301; May 26.
Rineer, Arthur E., Dayton, Ohio. Indicating device. 2,284,588; May 26.
Ringler, William A., Wayne, Pa., assignor to National Folding Box Company, New Haven, Conn. Folder. 2,283,949; May 26.
Ringler, William A., Wayne, Pa., assignor to National Folding Box Company, New Haven, Conn. Merchandise package. 2,283,950; May 26.
Ripley, Kenneth C., Washington, D. C. Commutator oscillograph device. 2,283,951; May 26.
Rippingille, Edward V., assignor to General Motors Corporation, Detroit, Mich. Marine drive and reverse gear. 2,284,589; May 26.
Rishell, George L., assignor to Hygrade Sylvania Corporation, Emporium, Pa. Electron tube mount of the shielded element type. 2,284,495; May 26.
Roberts, Charles W., Alexandria, Va., assignor to American Telephone and Telegraph Company. Support for wires. 2,284,302; May 26.
Roberts, Henry H., Jr., Philadelphia, Pa. Ignition system of internal combustion engines and controlling the spark. 2,284,068; May 26.
Robertson, Albert, Milwaukee, Wis. Instrument supporting cord. 2,284,069; May 26.
Robins, Ben W., Philadelphia, Pa., assignor to Radio Corporation of America. Impulse generator. 2,284,101; May 26.
Robinson, Charles A., Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Upper-holding device. 2,284,021; May 26.
Robinson, James, assignor to Vickers, Incorporated, Detroit, Mich. Hydraulic pump or motor. 2,284,169; May 26.
Robinson, Joseph, New York, N. Y. Electric vaporizer. 2,283,952; May 26.
Rochester Manufacturing Co. (See Connolly, William B., assignor.)
Rochester Manufacturing Co. Incorporated. (See Ford, George E., assignor.)
Rockwell-Barnes Company. (See Welch, Herman P., assignor.)
Rode, Fredrich J., and M. R. Hatch, Toledo, Ohio, assignors to E. W. Bliss Company, Brooklyn, N. Y. Press construction. 2,284,303; May 26.
Rodess, Samuel C., Huntington Park, Calif. Vise jaw attachment. 2,284,449; May 26.
Rodgers, Howard C. (See Henry, A. G., and Rodgers.)
Rogers, Howard G., Brookline, Mass., assignor to Polaroid Corporation, Dover, Del. Apparatus and method for forming plastic film. 2,284,590; May 26.
Rohm & Haas Company. (See Bock, Louis H., assignor.)
Röhm & Haas Company. (See Bruson, Herman A., assignor.)
Rohrer, John M., Orwigsburg, Pa. Shoemaking machinery. 2,283,953; May 26.
Roloson, Glenn B., Crestone, Colo. Lightning arrester, plunger type. 2,284,478; May 26.
Ronning, Martin. (See Korsmo, A., and Ronning.)
Ronzi, Carl, Zurich, Switzerland. Atomizer. 2,284,235; May 26.
Roof, Robert M., assignor of one-half to N. M. McCullough, Anderson, Ind. Angular adjustment mechanism for aligned shafts. 2,284,070; May 26.
Rose, William H., Jersey City, N. J., assignor to Stanco Incorporated. Nebulizer. 2,284,591; May 26.
Rosencrans, Charles A., Sewell, N. J., assignor to Radio Corporation of America. Inverse feedback amplifier. 2,284,102; May 26.
Rudert, Frithjof. (See Mulert, T., and Rudert.)
Rupp, Walter H., Elizabeth, and K. E. Thorp, Union, N. J., assignors to Standard Oil Development Company. Refining of mineral oils. 2,284,592; May 26.
Russell, Oren F., Palmer, Wash. Control means for motor driven skates. 2,284,344; May 26.
Rust, Frederick F., and W. E. Vaughan, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Catalytic halogenation of unsaturated organic compounds. 2,284,479; May 26.
Rust, Frederick F. (See Vaughan, W. E., and Rust.)
Safety Car Heating & Lighting Company Inc., The. (See Von Ohlsen, Louis H., assignor.)
St. Pierre, Eugene. (See Hutton, A. L., Jr., and St. Pierre.)
Salo, John. (See Hahn, C. E., and Salo.)
Sangamo Electric Company. (See Holtz, F. C., and Lanphier, assignors.)
Santiago, James J., assignor to J. Grant, Los Angeles, Calif. Oil well tool. 2,284,170; May 26.
Sardeson, Robert, Minneapolis, Minn., assignor to Harold C. Genter, Miami Beach, Fla. Food cooking device. 2,284,450; May 26.
Sayles, Stewart K., Meriden, Kans. Sheet separator. 2,284,071; May 26.
Schaefer, Inc. (See Norris, Robert B., assignor.)
Schauer, Walter E., Forest Park, assignor to Otarion, Inc., Chicago, Ill. Battery pack for electrical hearing aids. 2,284,451; May 26.
Scheinman, Sol. (See Arnold, R. W., and Scheinman.)
Schering Corporation. (See Butenandt, Adolf, assignor.)
Schering Corporation. (See Elsner, Horst, assignor.)
Schlesman, Carleton H., Camden, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Method and apparatus for geophysical prospecting. 2,284,345; May 26.
Schlitz, Jos., Brewing Company. (See Freshwaters, Edison C., assignor.)
Schmeller, John, Sr., Lakewood, Ohio. Reinforced metal plate construction. 2,284,022; May 26.
Schmidt, Alfred, Weehawken, N. J. Tamping machine. 2,284,072; May 26.
Schmitz, Otto, Grenchen, Switzerland. Air and water tight watch stem. 2,284,594; May 26.
Schnellpressenfabrik Aktiengesellschaft Heidelberg. (See Blittner, Artur, assignor.)
Schoeppel, Norman. (See Burgess, S., and Schoeppel.)
Schotz, Otto W., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Power transmission. 2,284,233; May 26.
Schotz, Otto W. (See Neracher, C. A., Dunn, Iavelli, Syrovy, and Schotz.)
Schroeder, Wilburn C., Hyattsville, and A. A. Berk, Berwyn, Md., assignors to the Government of the United States of America, as represented by the Secretary of the Interior and his successors in office. Apparatus for testing the embrittlement cracking characteristics of solutions. 2,283,954; May 26.
Schroeder, Wilburn C., College Park, Md., assignor to Government of United States of America as represented by the Secretary of Interior and his successors in office. Testing embrittlement cracking characteristics of solutions. 2,283,955; May 26.
Schroy, Paul C., Darien, Conn., assignor to American Cyanamid Company, New York, N. Y. Treatment of fibrous materials. 2,284,609; May 26.
Schuh, William H., Aberdeen, assignor to Grays Harbor Chair & Mfg. Company, Hoquiam, Wash. Furniture. 2,284,480; May 26.
Schwaneger, Heinrich E., Collingsford, N. J., assignor to High Frequency Light Corporation, Dover, Del. Electric lighting method and apparatus. 2,284,481; May 26.
Schwarze Electric Company. (See Stern, Lewis J., assignor.)

Scott-Paine, Hubert. (See Marwood, Tom, assignor.)
Scovill Manufacturing Company. (See McKnight, R. L., and Machin, assignors.)
Scripture, Edward W., Jr., Shaker Heights, Ohio. Emulsifiable composition and preparing same. 2,284,023; May 26.
Seegers, Hans, Chicago, and W. L. Pollard, Evanston, assignors to Jas. P. Marsh Corporation, Chicago, Ill. Gauge construction. 2,284,234; May 26.
Seidel, Max, Solln, Germany. Decolorizing solutions. 2,284,593; May 26.
Servel, Inc. (See Nauert, Carl H., assignor.)
7-Star Corporation. (See Sullivan, Edward J., assignor.)
Shade Control, Inc. (See Jordan, Arthur W., assignor.)
Shell Development Company. (See Ballard, Seaver A., assignor.)
Shell Development Company. (See Rust, F. F., and Vaughan, assignors.)
Shell Development Company. (See Vaughan, W. E., and Rust, assignors.)
Shellenberger, Rolfe, Westfield, N. J., and E. M. Freeman, North Pelham, N. Y., assignors to The Babcock & Wilcox Company, Newark, N. J. Steam generator. 2,284,601; May 26.
Shepard, George R. (See Kaiser, H. A., Leo, and Shepard.)
Shipp, Douglas Goldie. (See Peter, L. H., and Shipp.)
Shober Sales, Inc. (See Kingery, Leroy F., assignor.)
Shoop, Charles T., College Point, and H. Gohs, Elmhurst, N. Y. Adjustable and collapsible supporting structure. 2,284,304; May 26.
Signal Engineering & Manufacturing Company. (See Wheelock, John H., assignor.)
Sikol, George. (See Spicer, Lawrence M., assignor.)
Silberman, Samuel J., Hartford, Conn., assignor to Consolidated Cigar Corporation, New York, N. Y. Package. 2,284,171; May 26.
Silven, Herbert A., assignor to Norton Company, Worcester, Mass. Grinding machine. 2,284,073; May 26.
Silver, Walter H., assignor to Deere & Company, Moline, Ill. Damming device. 2,284,172; May 26.
Simons, Robert J., Springfield, assignor to James H. H. Bradford, Longmeadow, Mass. Paintbrush holder. 2,284,452; May 26.
Singer Manufacturing Company, The. (See Hacklander, Hans, assignor.)
Singer Manufacturing Company, The. (See Peets, W. J., Graesser, and Marsac, assignors.)
Sissel, John H., Rock Island, Ill. Engine transmission device. 2,284,595; May 26.
Skinner, Charles K., Southport, Conn., assignor to General Electric Company. Wringer. 2,284,453; May 26.
Skinner, Edward D., assignor to Kenmar Manufacturing Company, Philadelphia, Pa. Plastic material dispenser. 2,284,602; May 26.
Slade, Hector V., assignor to The Garrard Engineering & Manufacturing Company Limited, Swindon, England. Record changing mechanism for phonographs. 2,284,305; May 26.
Smith, Frank B. (See Britton, E. C., Smith, and Brown.)
Smith, George W., and J. A. Smith, assignors to Kenmore Machine Products, Inc., Lyons, N. Y. Refrigeration expansion valve. 2,284,496; May 26.
Smith, Hinsdale, assignor to H. Smith, Jr., Springfield, Mass. Developing process. 2,284,236; May 26.
Smith, Hinsdale, Jr. (See Smith, Hinsdale, assignor.)
Smith, James A. (See Smith, George W., and J. A.)
Smith, Lybrand P., U. S. Navy. Cavitation retarding blade and delaying the occurrence of cavitation to increased blade velocities. 2,283,956; May 26.
Smith, William L., Jr., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Knitted fabric and method. 2,284,454; May 26.
Smitley, Wayne C., Cleveland Heights, Ohio, assignor to General Electric Company. Thermal switch. 2,284,103; May 26.
Snell, J. Henry, Brockton, Mass. Rotary feeder for nail-making machines. 2,284,596; May 26.
Socony-Vacuum Oil Company. (See Marshall, Courtenay D., assignor.)
Socony-Vacuum Oil Company. (See Noll, H. D., and Branson, assignors.)
Socony-Vacuum Oil Company. (See Schlesman, Carleton H., assignor.)
Sokolov, Isidor. (See Garber, Aaron, assignor.)
Soukup, Johann, Vienna, Germany, and F. Zerner, Asnlere, France. Apparatus for recording and reproducing telephone messages. 2,284,173; May 26.
Sparling, Elliott W., Los Angeles, Calif., assignor, by mesne assignments to T. R. Gillenwaters and S. Steelman, as trustees for M. E. Gillenwaters. Sound recording and reproducing system. 2,284,306; May 26.
Sparrow, Hubert T., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Safety switch. 2,284,597; May 26.
Speck, William C., Bexley, and G. S. Pierce, Columbus, Ohio, assignors to The Buckeye Steel Castings Company. Apparatus for straightening metal castings or preventing distortion of same during cooling. 2,284,346; May 26.
Spencer, James A., Teaneck, N. J., assignor to Radio Corporation of America. Single channel adapter for multiplex synchronous printers. 2,284,104; May 26.
Sperandeo, Frank, Brooklyn, N. Y. Glove. 2,284,541; May 26.
Sperry, Paul A., New Haven, Conn., assignor to United States Rubber Company, New York, N. Y. Method of slitting shoe soles. 2,284,307; May 26.
Spicer, Lawrence M., assignor of forty-five per cent to G. Sikol, San Francisco, Calif. Matchbook holder. 2,284,174; May 26.
Stabley, Stewart S., Red Lion, Pa. Road material distributor. 2,284,175; May 26.
Stageberg, Sterling, assignor to Wesley Styles, Minneapolis, Minn. Machine for the extraction of gold and other minerals. 2,284,105; May 26.
Stagner, Bert A., Long Beach, Calif. Treating petroleum oil emulsions. 2,284,106; May 26.
Stahl, John M. (See Stahl, William, assignor.)
Stahl, William, assignor to J. M. Stahl, Los Angeles, Calif. Adjustable jamb for shower stall doors. 2,284,074; May 26.
Stanco Incorporated. (See Rose, William H., assignor.)
Standard Oil Company of California. (See Herrick, Henry N., assignor.)
Standard Oil Company, The. (See Burk, R. E., and Hughes, assignors.)
Standard Oil Development Company. (See Beyerstedt, Fred J., assignor.)
Standard Oil Development Company. (See Cornell, Hampton G., assignor.)
Standard Oil Development Company. (See Gleason, Anthony H., assignor.)
Standard Oil Development Company. (See Kellog, H. B., and Gaylor, assignors.)
Standard Oil Development Company. (See Kuhl, Paul E., assignor.)
Standard Oil Development Company. (See Lewis, Warren K., assignor.)
Standard Oil Development Company. (See Mack, Charles, assignor.)
Standard Oil Development Company. (See Martin, Homer Z., assignor.)
Standard Oil Development Company. (See Rupp, W. H., and Thorp, assignors.)
Staples, Crawford E. (See Kemmerer, R. R., and Staples.)
Stauffacher, Warner, Minneapolis, Minn. Pastry cutter. 2,284,455; May 26.
Stebner, Herman F., Walla Walla, Wash. Cigarette holder. 2,284,176; May 26.
Steelman, Samuel, et al., trustees. (See Sparling, Elliott W., assignor.)
Steinmetz, Benjamin J., Cedarhurst, N. Y. Coffee percolator. 2,283,957; May 26.
Stephens, Benjamin F., Tulsa, Okla. Floor furnace. 2,284,542; May 26.
Stern, Lewis J., assignor to Schwarze Electric Company, Adrian, Mich. Signal. 2,284,177; May 26.
Stevens, Edwin F., assignor to Lon-Ga-Tone, Inc., New York, N. Y. Tape-actuated reproducer and light gate therefor. 2,284,024; May 26.
Stevenson, Herbert A., Grosse Pointe Park, Mich. Industrial truck. 2,284,237; May 26.
Stilson, Herbert A., Chicago, Ill. Animal trap. 2,284,543; May 26.
Stockham, Gordon E., assignor to Piqua Products, Incorporated, Piqua, Ohio. Dishwasher. 2,284,025; May 26.
Stockham, Gordon E., assignor to Piqua Products, Incorporated, Piqua, Ohio. Dishwasher. 2,284,026; May 26.
Stoddard, Edgar S., Berwyn, assignor to Edison General Electric Appliance Company, Inc., Chicago, Ill. Washing apparatus. 2,284,456; May 26.
Stoeckly, Johann J., Teltow-Seehof, and E. Profft, Berlin-Lichterfelde, Germany, assignors to North American Rayon Corporation, New York, N. Y. Improving cellulose products. 2,284,614; May 26.
Stokely Brothers & Company, Inc. (See (Eberts, E. C., assignor), and K. M.)
Stokely Brothers & Company. (See Eberts, Edward C., assignor.)
Stow Manufacturing Company. (See Hotchkiss, Clarence F., Jr., assignor.)
Streckfuss, Elmer G., assignor to The Cincinnati Time Recorder Company, Cincinnati, Ohio. Time recorder mechanism. 2,284,598; May 26.
Strom, Albert P., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit interrupter. 2,284,347; May 26.
Stuart, Charles J., assignor to Wellman Company, Medford, Mass. Stop and synchronized drive mechanism. 2,284,308; May 26.
Stuart, Kimberly. (See Wilson, A. B., and Swangren.)
Styles, Wesley. (See Stageberg, Sterling, assignor.)
Sublett, Ira, St. Louis, Mo., assignor to Fairmont Railway Motors, Inc., Fairmont, Minn. Scarifier. 2,284,178; May 26.
Sullivan, Edward J., Los Angeles, assignor to 7-Star Corporation, Hollywood, Calif. Thiefproof cap for tanks. 2,284,107; May 26.
Superb Case Mfg. Co. (See Anderson, Eric, assignor.)
Surety Rubber Company, The. (See Evans, Russell M., assignor.)
Swangren, Edwin V. (See Wilson, A. B., and Swangren.)
Sweet, Harold A., Westfield, N. J., assignor to General Dyestuff Corporation, New York, N. Y. Dispersion of pigments in rubber. 2,284,610; May 26.

Syrovy, Augustin J. (See Neracher, C. A., Dunn, Iavelli, Syrovy, and Schotz.)
Tack, Carl E. (See Baselt, W. H., and Tack.)
Tharp, Forest S., Clarksburg, W. Va., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Cooler for glass furnaces. 2,284,348; May 26.
Thelander, W. Vincent, Rockford, Ill. Clutch plate assembly. 2,284,349; May 26.
Thelin, George W., Marion, Ind., assignor to Farnsworth Television and Radio Corporation. Radio receiver control device. 2,284,179; May 26.
Thomas, Frederick M., Hertfordshire, assignor to The De Havilland Aircraft Company Limited, Hatfield Aerodrome, England. Securing device, particularly for such parts as aircraft cowlings and the like. 2,284,180; May 26.
Thomas, Joseph R., Chicago, Ill. Spring seat. 2,284,108; May 26.
Thompson, Benjamin. (See Brant, J. H., and Thompson.)
Thompson, Louis A., Lakewood, Ohio, assignor to Acme Newspictures, Inc., New York, N. Y. Telephoto machine. 2,284,027; May 26.
Thorp, Kenneth E. (See Rupp, W. H., and Thorp.)
Thurmond, Charles A., Perry, Ga. Rupture support. 2,284,544; May 26.
Thwaits, Frederick G., Wauwatosa, assignor to The Heil Co., Milwaukee, Wis. Tank filling nozzle. 2,284,350; May 26.
Timber Engineering Company. (See Myer, James E., assignor.)
Titanium Alloy Manufacturing Company, The. (See Comstock, George F., assignor.)
Todd, John W., Ben Avon, Pa. Hoist grab. 2,284,238; May 26.
Tompkins, Edward De V., New York, N. Y. Portable sawing apparatus. 2,283,958; May 26.
Torrence, George P., Shaker Heights, R. F. Bergmann, Lakewood, and W. F. Knebusch, Rocky River, assignors to Industrial Rayon Corporation, Cleveland, Ohio. Apparatus for the manufacture of thread or the like. 2,284,497; May 26.
Toth, Louis. (See Peremi, E., and Toth.)
Tropic-Aire, Incorporated. (See Caesar, Orville S., assignor.)
Tschepp, Louis R., Buffalo, N. Y. Illuminated sign. 2,284,309; May 26.
Tubize Chatillon Corporation. (See Allquist, John W., assignor.)
Tucker Duck & Rubber Co. (See Tucker, Henry T., assignor.)
Tucker, Emmitt M., E. M., Jr., and J. M., Huntington Park, Calif. Snow tractor. 2,284,075; May 26.
Tucker, Emmitt M. (See Tucker, E. M., E. M., Jr., and J. M.)
Tucker, Henry T., assignor to Tucker Duck & Rubber Co., Fort Smith, Ark. Folding high chair. 2,284,498; May 26.
Tucker, Joseph M. (See Tucker, E. M., E. M., Jr., and J. M.)
Turner Tanning Machinery Company, The. (See Lambert, Leo J., assignor.)
Ubbelohde, Leo, Berlin-Charlottenburg, Germany. Dry spinning process. 2,284,028; May 26.
Underwood Elliott Fisher Company. (See Pitman, Henry L., assignor.)
Union Chain and Manufacturing Company, The. (See Emmons, Eugene F., assignor.)
Union Switch & Signal Company, The. (See Kemmerer, R. R., and Staples, assignors.)
Union Switch & Signal Company, The. (See Peter, L. H., and Shipp, assignors.)
United Shoe Machinery Corporation. (See Naugler, Walter E., assignor.)
United Shoe Machinery Corporation. (See Robinson, Charles A., assignor.)
United States Rubber Company. (See Howland, Louis H., assignor.)
United States Rubber Company. (See Hurt, Victor H., assignor.)
United States Rubber Company. (See Sperry, Paul A., assignor.)
United States Steel Corporation of New Jersey. (See Llewellyn, F. T., and Painter, assignors.)
Universal Winding Company. (See Bushey, Thomas N., assignor.)
Universum-Film Aktiengesellschaft. (See Kemma, Gustav, assignor.)
Usselman, George L., Port Jefferson, N. Y., assignor to Radio Corporation of America. Parasitic filter. 2,284,181; May 26.
Usselman, George L., Port Jefferson, N. Y., assignor to Radio Corporation of America. Piezoelectric device and neutralizer. 2,284,545; May 26.
Utility Electric Corp. (See Altschule, Herman, assignor.)
Vallen, Earl J., Akron, Ohio. Curtain track support. 2,284,310; May 26.
Van Antwerp, Earl B., Whittier, Calif. Educational building setup for rough plumbing. 2,284,458; May 26.
Van Buren, Eber G., and R. F. Jackson, Vanderbilt, Mich. Metal sign press. 2,284,076; May 26.
Van Nest, Francis H., Saugus, Mass., assignor to General Electric Company. Relief valve. 2,284,457; May 26.
Van Saun, Raymond H., assignor to Container Corporation of America, Chicago, Ill. Container. 2,284,499; May 26.
VanVoorhis, William G. (See Hollmann, H., and VanVoorhis.)
Vapor Recovery Systems Company, The. (See Pfeiffer, Walter, assignor.)
Vaughan, William E. (See Rust, F. F., and Vaughan.)
Vaughan, William E., and F. F. Rust, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Halo-substitution of mixtures containing saturated organic compounds. 2,284,482; May 26.
Vega Aircraft Corporation. (See Menasco, A. S., and Hibbard, assignors.)
Verduin, John, Hawthorne, N. J. Treating textile fabrics. 2,284,182; May 26.
Vickers, Harry F., assignor to Vickers Incorporated, Detroit, Mich. Hydraulic pump or motor. 2,284,109; May 26.
Vickers, Harry F., assignor to Vickers Incorporated, Detroit, Mich. Hydraulic pump or motor. 2,284,110; May 26.
Vickers, Harry F., assignor to Vickers Incorporated, Detroit, Mich. Hydraulic pump or motor. 2,284,111; May 26.
Vickers Incorporated. (See Herman, Kenneth R., assignor.)
Vickers Incorporated. (See Robinson, James, assignor.)
Vickers Incorporated. (See Vickers, Harry F., assignor.)
Vincent, Jesse G., Grosse Pointe, assignor to Packard Motor Car Company, Detroit, Mich. Internal combustion engine. 2,283,959; May 26.
Von Hofe, George W., Bound Brook, assignor to New Jersey Machine Corporation, Hoboken, N. J. Mechanism for applying labels to articles. 2,284,311; May 26.
Von Ohlsen, Louis H., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company Inc. Refrigeration apparatus. 2,284,546; May 26.
Wade, Barry A., Evansville, Ind. Mechanically animated artificial bait. 2,284,183; May 26.
Wade, William J., Seattle, Wash. Fish lure. 2,283,960; May 26.
Wagner, Caroline W., executrix. (See Wagner, Theodore B.)
Wagner Electric Corporation. (See Dick, Burns, assignor.)
Wagner Electric Corporation. (See Weichsel, Hans, assignor.)
Wagner, Theodore B., deceased, late of Brooklyn, N. Y., by C. W. Wagner, executrix, Brooklyn, N. Y. White goods. 2,284,239; May 26.
Walker, Jay P., Tulsa, Okla., and E. V. Foran, San Antonio, Tex., assignors to Eureka Process Corporation, Tulsa, Okla. Treating well fluids. 2,284,112; May 26.
Wallace, James, St. Louis, Mo. Reel. 2,284,077; May 26.
Wallace & Tiernan Products, Inc. (See MacKay, John R., assignor.)
Walraven, Albert T., Dallas, Tex. Book binding and forming the same. 2,284,312; May 26.
Walter, Albert U. (See Peterson, W. F., and Walter.)
Warner, Joseph N., Dearborn, Mich. Rotary Diesel engine. 2,284,184; May 26.
Warth, Carl, assignor to Chemische Fabrik Lowenberg Dr. Warth & Company, Lowenberg, Silesia, Germany. Hydrolysis of cellulosic materials. 2,284,500; May 26.
Watkins, William F., assignor of one-half to C. J. Disler, and one-quarter to N. C. Nelson, Seattle, Wash. Submarine hydraulic concentrator for precious metals. 2,284,459; May 26.
Watson, Gavin, Ossining, assignor to Otis Elevator Company, New York, N. Y. Dispatching and control system for elevators. 2,284,113; May 26.
Weber, Albert J., and C. P. McCracken, Los Angeles, Calif. Steam puff iron. 2,284,313; May 26.
Weeks, Walter H. (See Franklin, L. U., and Weeks.)
Weeks, Walter H. (See Franklin, L. U., Weeks, and Harris.)
Wehr, William G., East Cleveland, Ohio, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio. Rail for overhead monorail carrier systems. 2,284,240; May 26.
Weichsel, Hans, Webster Groves, assignor to Wagner Electric Corporation, St. Louis, Mo. Electrical circuit interrupting means. 2,284,114; May 26.
Welch, Herman P., Union City, Ind., assignor to Rockwell-Barnes Company, Chicago, Ill. Time study board. 2,284,501; May 26.
Welling, Thomas M., Cleveland, Ohio. Wedding bouquet holder. 2,284,029; May 26.
Wellington Machine Company. (See Gannett, Chauncey W., assignor.)
Wellman Company. (See Stuart, Charles J., assignor.)
Wells, Joseph H., and P. J. Wilson, Jr., Pittsburgh, Pa., assignors to Carnegie-Illinois Steel Corporation. Purification of coal tar bases. 2,284,460; May 26.
Werntz, James H., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Corrosion inhibition. 2,284,241; May 26.

Wescott, Florence W., et al. (See Baker, Claude M., assignor.)
Wescott, Jay V., et al. (See Baker, Claude M., assignor.)
West, John W., Woodside, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical device. 2,284,547; May 26.
Western Union Telegraph Company, The. (See Kimball, V. R., and Dirkes, assignors.)
Western Union Telegraph Company, The. (See Parrott, R. D., Erickson, and Wise, assignors.)
Westinghouse Electric & Manufacturing Company. (See Arnold, Edwin E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Edwards, Hilbert E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Germany, James H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Huggins, Leroy G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hyde, Merritt A., Jr., assignor.)
Westinghouse Electric & Manufacturing Company. (See May, John W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Peck, Clarence E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Strom, Albert P., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wyckoff, Peter H., assignor.)
Westrope, Frederick J., Pleasant Ridge, assignor, by mesne assignments to Reconstruction Finance Corporation, Detroit, Mich. Visor support. 2,284,502; May 26.
Wetzler, Max E., Long Island City, N. Y. Clamp. 2,284,314; May 26.
Wheelock, John H., Fitzwilliam, N. H., assignor to Signal Engineering & Manufacturing Company, New York, N. Y. Alarm signal system. 2,284,185; May 26.
Whitesell, John C., Jr., Norristown, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Dressing tool. 2,284,483; May 26.
Wiegand, Edwin L., Pittsburgh, Pa. Making electrical heating units. 2,284,078; May 26.
Wieners, Franz. (See Mieg, W., and Wieners.)
Wiesner, Bertold P. H., and E. Kutscher, London, assignors to Ward Blenkinsop and Company Limited, Halewood, near Liverpool, England. Manufacture of amino-cyclic sulphonamides and their derivatives. 2,284,461; May 26.
Williams, Alfred L. W., Cleveland Heights, assignor to The Brush Development Company, Cleveland, Ohio. Electrical connector assembly. 2,284,462; May 26.
Williams, Edward R., assignor, by mesne assignments, to himself and J. L. C. Williams, Latrobe, Pa. Apparatus for continuous casting. 2,284,503; May 26.
Williams, Julia L. C. (See Williams, Edward R., assignor.)
Williams, Norman D. (See Backoff, W. J., Williams, O'Loughlin, Moir, and Yule.)
Williamson, Larkin R., Cincinnati, Ohio., assignor to E. W. Bliss Company, Brooklyn, N. Y. Pressure booster unit. 2,283,961; May 26.
Wilson, Allen B., Evanston, and E. V. Swangren, Maywood, Ill., assignors to Kimberly Stuart, Menasha, Wis. Rimming machine. 2,283,962; May 26.
Wilson-Jones Company. (See Murphy, Edward, assignor.)
Wilson-Jones Company. (See Pitt, William, assignor.)
Wilson, Philip J., Jr. (See Wells, J. H., and Wilson, Jr.)
Wilson, Richard J., Jewell, Iowa. Road grader. 2,284,463; May 26.
Wingert, Paul, Montpelier, Ohio. Furnace and stove construction. 2,284,464; May 26.
Winslow, Albert E., New London, assignor, by mesne assignments, to Atwood Machine Company, Stonington, Conn. Spindle. 2,283,963; May 26.
Wintermute, George J. (See Bench, D. E., Crosby, and Wintermute.)
Wintringham, Andrews C., Glen Ridge, and V. L. King, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. Manufacture of melamine. 2,284,079; May 26.
Wirth, Otto, Zollikon, near Zurich, assignor to Micafil Ltd., Zurich, Switzerland. Armature winding machine. 2,284,115; May 26.
Wise, Raleigh J. (See Parrott, R. D., Erickson, and Wise.)
Wolstenholme, Harry F., Paterson, N. J. Rotary internal combustion engine. 2,284,186; May 26.
Wood, Orla L., Jr., Schenectady, N. Y., assignor to General Electric Company. Shaft packing. 2,284,465; May 26.
Wood, Robert O., Upper Montclair, assignor to Button Corporation of America, Newark, N. J. Grinding mill. 2,284,548; May 26.
Woodin, Norman C., Rock Island, Ill. Hammer. 2,284,030; May 26.
Wrathall, Leishman R. (See Manley, J. M., and Wrathall.)
Wrighton, William J., and T. C. Jarrett, assignors to American Optical Company, Southbridge, Mass. Composite laminated plate stock. 2,284,504; May 26.
Wulff, John, Cambridge, Mass., assignor to The Chemical Foundation, Incorporated. Master alloy. 2,283,902; May 26.
Wyckoff, Peter H., Avalon, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical dust precipitator. 2,283,964; May 26.
Wyer, Richard F., Scotia, N. Y., assignor to General Electric Company. Electric deseaming. 2,284,351; May 26.
Yablonski, Leon, assignor to Baker Perkins, Inc., Saginaw, Mich. Apparatus for plasticizing, washing, or dissolving rubber or the like. 2,284,549; May 26.
Yoder, Carl M., et al. (See Morris, Howard I., assignor.)
Yoder Company, The. (See Yoder, Leonard A., assignor.)
Yoder, Harvey O., et al. (See Morris, Howard I., assignor.)
Yoder, Leonard A., Lakewood, assignor to The Yoder Company, Cleveland, Ohio. Welding apparatus. 2,284,315; May 26.
Yorkin, Maurice A. (See Bert, Samuel D., assignor.)
Young, Howard S. (See Larchar, A. W., and Young.)
Young, William R. (See Bryant, F. D., and Young.)
Youngstown Steel Door Company, The. (See Madland, G., and Lehnhoff, assignors.)
Yule, John S. (See Backoff, W. J., Williams, O'Loughlin, Moir, and Yule.)
Zank, Donald G., West Salem, Wis. Seat. 2,284,352; May 26.
Zehner, William H., assignor to The F. E. Myers & Bro. Co., Ashland, Ohio. Triple acting pump. 2,284,505; May 26.
Zelt, Elmer J., Fort Wayne, Ind., assignor to General Electric Company. Casing for electrical apparatus. 2,284,466; May 26.
Zerner, Friedrich. (See Soukup, J., and Zerner.)
Ziemmerman, Henry, assignor to Chicago Cardboard Company, Chicago, Ill. One-piece foldable game board. 2,284,242; May 26.
Zimarik, John, Akron, Ohio. Washing machine. 2,284,243; May 26.
Zuberbuhler, Alexandre, Lausanne, Switzerland. Domestic heating apparatus firebox with two combustion flues. 2,284,506; May 26.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 26TH DAY OF MAY, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Circuits, Magnetically tuned high frequency. R. L. Harvey. Re. 22,103; May 26.
Garment, Liquid jacketed aviator's. M. R. Holste. Re. 22,101; May 26.
Heating system, Reversed cycle. K. P. Brace and R. B. P. Crawford. Re. 22,100; May 26.
Vehicle, Heavy duty. R. M. Reid. Re. 22,102; May 26.

LIST OF PLANT INVENTIONS

Buddleia. P. J. Schmidt. 519; May 26.
Rose. M. H. Horvath. 518; May 26.
Rose plant. W. E. Lammerts. 521–2; May 26.
Rose plant. T. J. Morris. 523; May 26.
Rose plant. H. C. Swim. 524; May 26.
Tree, Peach. A. W. Wahl. 520; May 26.

LIST OF DESIGN INVENTIONS

Applique for wearing apparel. E. H. Gottfried. 132,547; May 26.
Banner or similar article. R. C. Stephens. 132,528; May 26.
Blanket, Fire extinguisher. G. J. Rhodes. 132,536–7; May 26.
Box or similar article. M. Straus. 132,585; May 26.
Brooch or similar article. M. Chernow. 132,531; May 26.
Brooch or similar article. A. Katz. 132,524; May 26.
Brooch or similar article. A. Katz. 132,527; May 26.
Brooch or similar article. M. J. Landis. 132,573; May 26.
Bumper or similar article, Automobile. G. W. Walker. 132,552; May 26.
Button or similar article, Lapel. J. F. Lynch. 132,535; May 26.
Cabinet and table, Combination. A. W. Junkuns. 132,532; May 26.
Cabinet for knitting needles, crochet hooks, or the like. Display. E. W. Slingsby. 132,551; May 26.
Case for decorative purposes, Glass display. D. B. Carr. 132,556; May 26.
Chair, Adjustable. H. Dreyfuss. 132,542; May 26.
Controlling device, Draft. M. W. Crew and C. H. Morrow. 132,570; May 26.
Cooky. M. Zentner. 132,530; May 26.
Counter. M. L. Jeffrey. 132,548; May 26.
Curler, Hair. A. I. Jordan. 132,549; May 26.
Cycloplane. P. T. Tomasini. 132,520; May 26.
Dispenser, Cigarette. E. H. Bernstein. 132,568; May 26.
Dress. M. Fields. 132,557; May 26.
Dress. J. Walker. 132,558; May 26.
Duplicating machine or similar article. W. W. Davidson and H. S. Scholl. 132,574–5; May 26.
Earring or similar article. A. Gerstenzang. 132,523; May 26.
Earring or similar article. A. Katz. 132,525; May 26.
Ensign or similar article. A. Wolff. 132,529; May 26.
Fabric, Embroidered. B. Goldman. 132,576; May 26.
Frame, Handbag. J. A. Lichter. 132,534; May 26.
Glider. W. I. Smith. 132,521; May 26.
Golf club head. J. Cowan. 132,553; May 26.
Handbag. M. Seltzer. 132,543; May 26.
Hanger, Garment. C. A. Bradley. 132,540; May 26.
Holder, Candle. C. W. Sawyer. 132,565; May 26.
Holders, Numeral set of candle. A. Scheinpflug. 132,571; May 26.
Jewelry finding. A. Katz. 132,526; May 26.
Level, Protractor. T. W. Selfres. 132,550; May 26.
Mask for stuffed toys or similar articles. J. Swedlin. 132,509–10; May 26.
Mask for stuffed toys or similar articles. J. Swedlin. 132,516; May 26.
Mask or similar article, Aviator's oxygen. A. H. Bulbulian. 132,544–5; May 26.
Medallion, Embroidered lace. H. Schwarber. 132,538; May 26.
Mitt, Ski. E. C. Lindfelt. 132,564; May 26.
Outlet box, Electrical floor. J. W. Lewin. 132,563; May 26.
Pan, Shampoo. P. R. Keirle. 132,562; May 26.
Piano. G. W. Cushing. 132,541; May 26.
Pin or similar article, Lapel. M. Kaplan. 132,554; May 26.
Pipe, Smoking. W. T. Clements. 132,561; May 26.
Plaque, Picture carrying service. G. M. Diehl. 132,546; May 26.
Pump, Stirrup. D. Kelleher and H. J. Troche. 132,533; May 26.
Sachet. J. E. Vivandou. 132,567; May 26.
Sharpener, Pencil. E. C. Hoffmann. 132,577; May 26.
Sprinkler, Lawn. W. M. Ware. 132,539; May 26.
Staple remover. C. E. Nyberg. 132,578; May 26.
Suit. R. Troffkin. 132,566; May 26.
Syringe. A. E. Smith. 132,555; May 26.
Table. A. O. Mattucci. 132,519; May 26.
Table, Cocktail. A. O. Mattucci. 132,518; May 26.
Tank, Liquid gas. L. D. Turner. 132,569; May 26.
Textile fabric. A. Bontemy. 132,582–3; May 26.
Textile fabric. S. Weinberg. 132,517; May 26.
Textile fabric or similar article. A. M. Radcliffe. 132,584; May 26.
Toy or similar article, Stuffed. J. Swedlin. 132,511–5; May 26.
Urn. E. W. Furerst and C. W. Sawyer. 132,522; May 26.
Vase. C. W. Sawyer. 132,559–60; May 26.
Vestee with detachable collar. A. Phillips. 132,579–80; May 26.
Vestee with removable dickey. A. Phillips. 132,581; May 26.
Washing machine and wringer, Combined. C. M. Cain. 132,572; May 26.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 26TH DAY OF MAY, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acid dispenser. O. L. Chapman. 2,284,041; May 26.
Acids from their salts, Recovery of lower aliphatic. H. Dreyfus and W. H. Groombridge. 2,283,976; May 26.
Acids, Production of aliphatic. H. Dreyfus and W. H. Groombridge. 2,283,920; May 26.
Acids, Production of aliphatic. H. Dreyfus and W. H. Groombridge. 2,283,977; May 26.
Adiponitrile, Hydrogenation of. A. W. Larchar and H. S. Young. 2,284,525; May 26.
Adjustable retractable tool. R. J. Rickenbacher. 2,284,168; May 26.
Adjuster for brakes, Slack. L. F. Brown. 2,283,966; May 26.
Adjustment mechanism for aligned shafts, Angular. R. M. Roof. 2,284,070; May 26.
Air conditioning apparatus. L. G. Huggins. 2,283,928; May 26.
Air conditioning apparatus. J. McElgin. 2,284,161; May 26.
Air valve. G. R. Metzdorf. 2,284,007; May 26.
Air vent valve. L. W. Eggleston. 2,284,137; May 26.
Airplane. R. F. Hall. 2,284,519; May 26.
Alarm, Portable burglar. C. Metzler. 2,284,292; May 26.
Alarm signal system. J. H. Wheelock. 2,284,185; May 26.
Alcohols, Mercurated aliphatic. A. W. Ralston and M. R. McCorkle. 2,284,067; May 26.
Alloy: *See*—
Master alloy.
Amino-cyclic sulphonamides and their derivatives, Manufacture of. B. P. H. Wiesner and E. Katscher. 2,284,461; May 26.
Aminomethyl derivatives of p-hydroxybenzoic acid salts and amides. L. H. Bock. 2,284,118; May 26.
Ammeter. W. B. Connolly. 2,284,045; May 26.
Amplifier. A. R. Morgan. 2,284,064; May 26.
Amplifier, Inverse feedback. C. A. Rosencrans. 2,284,102; May 26.
Amplifier system, Inverse feedback. D. S. Bond. 2,284,083; May 26.
Amplifier, Torque. W. W. Boes and J. R. McGuire. 2,284,509; May 26.
Animal trap. H. A. Stilson. 2,284,543; May 26.
Annealing furnace, Bell type. J. H. Germany. 2,283,982; May 26.
Antenna. P. S. Carter. 2,283,914; May 26.
Antenna. N. E. Lindenblad. 2,284,434; May 26.
Antenna system. A. Alford. 2,283,897; May 26.
Antenna system. L. J. McKesson. 2,283,938; May 26.
Antenna system for modulated-carrier signal receivers. N. P. Case. 2,284,131; May 26.
Antifriction bearing. J. H. Powers. 2,284,446; May 26.
Antishimmy device. G. L. Hineman. 2,284,148; May 26.
Apparatus and method for forming plastic film. H. G. Rogers. 2,284,590; May 26.
Apparatus for applying clips. K. M. Jones and W. H. De Baugh. 2,283,933; May 26.
Apparatus for automatic soil sprinkling systems. A. J. Lewis. 2,284,158; May 26.
Apparatus for continuous casting. E. R. Williams. 2,284,503; May 26.
Apparatus for cutting or deseaming metal. W. J. Jacobsson and C. V. Eskridge. 2,284,574; May 26.
Apparatus for facsimile telegraphy. R. D. Parrott, G. L. Erickson, and R. J. Wise. 2,283,944; May 26.
Apparatus for making paper cord. B. M. Kimball. 2,284,321; May 26.
Apparatus for making reinforced sheets. K. W. Dillman and R. W. Barbee. 2,284,563; May 26.
Apparatus for molding pipe. J. Ferla. 2,283,921; May 26.
Apparatus for plasticizing, washing, or dissolving rubber or the like. L. Yablonski. 2,284,549; May 26.
Apparatus for processing the contents of sealed cans. E. C. Eberts. 2,284,269; May 26.
Apparatus for producing and utilizing photographic images. A. Briechle, R. T. Hurley, and G. E. Merritt. 2,284,558; May 26.
Apparatus for producing cooked casein. V. J. Lowe and A. W. Bean. 2,284,435; May 26.
Apparatus for recording and reproducing telephone messages. J. Soukup and F. Zerner. 2,284,173; May 26.
Apparatus for straightening metal castings or preventing distortion of same during cooling. W. C. Speck and G. S. Pierce. 2,284,346; May 26.
Apparatus for surveying and ascertaining sighting errors in shooting practice against moving targets, especially airplanes. F. E. Fischer. 2,283,922; May 26.
Apparatus for testing the embrittlement cracking characteristics of solutions. W. C. Schroeder and A. A. Berk. 2,283,954; May 26.
Apparatus for the manufacture of artificial materials. A. Lely and G. Eeninkwinkel. 2,284,399; May 26.
Apparatus for the manufacture of thread or the like. H. B. Kline. 2,284,489; May 26.
Apparatus for the manufacture of thread or the like. G. P. Torrence, R. F. Bergmann, and W. F. Knebusch. 2,284,497; May 26.
Apparatus for use in the manufacture of rayon. P. P. Kriek. 2,284,397; May 26.
Applicator for cylindrical container interiors, Adhesive. I. F. Mandell. 2,284,491; May 26.
Arch support. W. T. Porter. 2,284,164; May 26.
Armature winding machine. O. Wirth. 2,284,115; May 26.
Articles and the like for shipment, Assembling metallic. D. F. Hedges. 2,284,616; May 26.
Articles, Method and apparatus for grading and individually freezing various. E. C. and K. M. Eberts. 2,284,270; May 26.
Ash arrester. R. W. Coward. 2,284,513; May 26.
Atomizer. C. Ronzi. 2,284,235; May 26.
Audible meter. I. Miller. 2,284,008; May 26.
Automatic duplex mechanism for spinning container closures. I. F. Mandell. 2,284,492; May 26.
Automatic means for controlling welding machines. F. Marquart. 2,284,403; May 26.
Automobile door lock. W. K. Freeman. 2,284,192; May 26.
Automobile traction device. H. N. Ridgway. 2,283,948; May 26.
Baffle plate for precooler. T. De Stefani. 2,284,188; May 26.
Bag or sleeping cover, Baby sleeping. W. H. Reinholz. 2,284,448; May 26.
Bait, Mechanically animated artificial. B. A. Wade. 2,284,183; May 26.
Balance, Weather strip and sash. A. J. Ricci. 2,284,343; May 26.
Ballast cleaning apparatus. T. A. Blair. 2,284,035; May 26.
Balls, Method of covering. V. H. Hurt. 2,284,265; May 26.
Band, Wrist. O. G. Langer. 2,284,582; May 26.
Battery pack for electrical hearing aids. W. E. Schauer. 2,284,451; May 26.
Beading machine. E. E. Bryant. 2,284,366; May 26.
Bearing: *See*—
Antifriction bearing.
Bed, Labor or similar. A. Comper and R. A. Bartholomew. 2,284,470; May 26.
Beer dispensing system. R. T. Cornelius. 2,284,135; May 26.
Bell type furnace, Direct fired cylindrical. C. E. Peck. 2,284,014; May 26.
Beverage apparatus. W. F. Brown. 2,283,967; May 26.
Bicycle. C. F. McGirl and H. Harman. 2,284,333; May 26.
Bimetallic element. F. G. Bloch. 2,284,082; May 26.
Binder, Loose leaf. E. Murphy. 2,284,009; May 26.
Bismuth salts of oxy acids. H. A. Bruson. 2,284,126; May 26.
Bit: *See*—
Well drilling bit.
Blade and a method of delaying the occurrence of cavitation to increased blade velocities, Cavitation retarding. L. P. Smith. 2,283,956; May 26.
Blade, Self-leveling scraper. C. N. Adams. 2,284,550; May 26.
Blasting cable reel. D. R. De Board. 2,284,375; May 26;
Block system of railway signaling, Absolute permissive. R. R. Kemmerer and C. E. Staples. 2,283,998; May 26.
Blowers, Regulation of. M. A. Muller. 2,284,587; May 26.
Blowpipe and rod-feeding mechanism therefor. E. P. Jones. 2,283,932; May 26.
Board: *See*—
Game board. Time study board.
Bodies, Closing the ends of tubular. A. B. Johnson. 2,284,210; May 26.
Boiler feed control. J. A. Campbell. 2,284,130; May 26.
Book binding and forming the same. A. T. Walraven. 2,284,312; May 26.
Bookcase end table. F. Y. Biletz. 2,284,361; May 26.
Boom swing mechanism for concrete mixers. C. F. Ball and L. G. Hilkemeier. 2,284,249; May 26.
Boot rack. A. N. Arenz. 2,284,552; May 26.
Boring machine. N. E. Morrison. 2,284,336; May 26.

Bottle carrier. R. C. Marshall, Jr. 2,284,290; May 26.
Box and pocket for handbags, Combination. F. Deak. 2,284,374; May 26.
Boxes, Making paper. R. A. Himes. 2,284,283; May 26.
Brake: *See*—
Rotor brake.
Brake control mechanism. B. Dick. 2,284,189; May 26.
Brake mechanism. C. L. Eksergian. 2,284,484; May 26.
Brake mechanism. C. L. Eksergian and P. W. Gaenssle. 2,284,605; May 26.
Brake shoe. W. H. Farr, C. L. Eksergian, and K. C. Harle. 2,284,485; May 26.
Breaker strip construction. O. O. Rieser. 2,284,301; May 26.
Breather. H. M. Acly. 2,284,354; May 26.
Brush. S. Karas. 2,284,213; May 26.
Brush, Electric-contact. B. C. Evans. 2,284,384; May 26.
Brush, Shaving. J. S. Hawkins. 2,284,207; May 26.
Brush, Sweeper. W. A. Malmquist. 2,284,528; May 26.
Bucket, Clamshell. E. L. Harrington. 2,284,390; May 26.
Building construction. J. P. Paca. 2,284,012; May 26.
Burner: *See*—
Fuel burner.
Burner for liquid fuels. R. Braida. 2,284,037; May 26.
Bushing reaming and driving tool. C. A. Keen. 2,284,522; May 26.
Bushings, Making. A. Dekome. 2,283,918; May 26.
Cabinet: *See*—
Dispensing cabinet.
Cable bushing. G. Carlson. 2,284,370; May 26.
Cage, Cashier's and teller's. H. Chlopecky. 2,284,261; May 26.
Calculating equipment. L. Kozma and J. Kruithof. 2,283,999; May 26.
Camera shutter and flash synchronizer, Focal plane. E. S. Hineline. 2,284,486; May 26.
Camera with binocular eye level view finder, Mirrow reflex. G. Dittmann. 2,284,562; May 26.
Can forming fixture. K. L. Herrmann. 2,284,319; May 26.
Cap for tanks, Thiefproof. E. J. Sullivan. 2,284,107; May 26.
Cap retainer for dispensing tubes. L. M. Rausch. 2,284,020; May 26.
Car construction. O. C. Duryea. 2,294,268; May 26.
Cardanol and making the same, Hydrogenated. S. Caplan. 2,284,369; May 26.
Carrier: *See*—
Bottle carrier.
Carton. E. C. Freshwaters. 2,284,385; May 26.
Casing for electrical apparatus. E. J. Zelt. 2,284,466; May 26.
Casings or pipes, Cutting well. G. E. Justice. 2,284,211; May 26.
Catalysts of increased activity and producing the same, Condensation. F. J. Beyerstedt. 2,284,554; May 26.
Catalytic conversion of hydrocarbons. A. Belchetz and K. F. Duncan. 2,284,603; May 26.
Catalytic halogenation of unsaturated organic compounds. F. F. Rust and W. E. Vaughan. 2,284,479; May 26.
Cathead. T. E. Purcell. 2,284,540; May 26.
Cellulose products. J. J. Stoeckly and E. Profft. 2,284,614; May 26.
Chain. E. F. Emmons. 2,284,565; May 26.
Chair: *See*—
Folding high chair. Oscillating chair.
Chair or seat structure and foot rest construction therefor. O. S. Caesar. 2,284,129; May 26.
Change speed transmission gear. W. H. Murad. 2,284,441; May 26.
Channel adapter for multiplex synchronous printers, Single. J. A. Spencer. 2,284,104; May 26.
Chip rack. G. Green. 2,284,518; May 26.
Choke. F. W. Baureschmidt. 2,284,255; May 26.
Chute or guide for machine gun cartridge belts, Molded. F. C. Johnson. 2,284,488; May 26.
Cigar machine cross feed. J. F. Halstead. 2,284,472; May 26.
Cigarette holder. H. F. Stebner. 2,284,176; May 26.
Cigarettes, Treatment of. C. Best. 2,284,117; May 26.
Circuit: *See*—
Deflecting circuit. Modulation circuit.
Demodulation circuit. Telegraph circuit.
Circuit interrupter. A. P. Strom. 2,284,347; May 26.
Circuit interrupting apparatus, Explosion proof. M. A. Hyde, Jr. 2,284,613; May 26.
Circuits, Magnetically tuned high frequency. R. L. Harvey. 2,283,924; May 26.
Circulator, Hydraulic. P. Berman. 2,283,907; May 26.
Clamp: *See*—
Pipe clamp.
Clamp. M. E. Wetzler. 2,284,314; May 26.
Clamp or grapple, Plate. S. T. McLellan. 2,284,006; May 26.
Cleaner: *See*—
Flue cleaner.
Closure structure, Rolling. W. F. Heckman and O. C. Haggard. 2,284,052; May 26.
Clothesline support. S. H. Hammar. 2,283,987; May 26.
Clutch. J. Brancolino. 2,283,965; May 26.
Clutch plate. G. I. Goodwin. 2,284,278; May 26.
Clutch plate assembly. W. V. Thelander. 2,284,349; May 26.
Clutch shifting mechanism. C. F. Ball and L. G. Hilkemeier. 2,284,251; May 26.
Coal tar bases, Purification of. J. H. Walls and P. J. Wilson, Jr. 2,284,460; May 26.
Coaster. J. F. Eberle. 2,283,978; May 26.
Coating and impregnating composition. A. H. Gleason. 2,284,570; May 26.
Coating material, Reclaiming. D. M. Gray. 2,284,142; May 26.
Coffee maker. B. C. Bellows, Jr. 2,284,359; May 26.
Coffee, Treating green. N. E. Berry. 2,284,033; May 26.
Collar, Shirt. P. W. Napierala. 2,284,297; May 26.
Commutator oscillograph device. K. C. Ripley. 2,283,951; May 26.
Composition and method (plant stimulant). J. F. Lontz. 2,284,002; May 26.
Compounds of the cyclopentanopolyhydrophenanthrene series and producing them. A. Butenandt. 2,283,913; May 26.
Connector: *See*—
Electric connector. Electrical connector.
Contact masses, Regeneration of. H. Z. Martin. 2,284,584; May 26.
Conveyer, Gravity. W. J. Lueckel. 2,284,490; May 26.
Connector and joint, Plate timber. J. E. Myer. 2,283,943; May 26.
Container: *See*—
Dispensing container. Lipstick container.
Container. R. H. Van Saun. 2,284,499; May 26.
Container and picture holder. E. Anderson. 2,284,355; May 26.
Container handling apparatus. F. Krueger. 2,284,286; May 26.
Control apparatus. W. H. Howe. 2,283,927; May 26.
Control means for motor driven skates. O. F. Russell. 2,284,344; May 26.
Cooking device, Food. R. Sardeson. 2,284,450; May 26.
Cooler: *See*—
Jiffy milk cooler.
Cooler for gluss furnaces. F. S. Tharp. 2,284,348; May 26.
Cord, Dobby. B. T. Clark. 2,284,042; May 26.
Cord, Instrument supporting. A. Robertson. 2,284,069; May 26.
Core and shield and making the same, High frequency. R. L. Harvey. 2,283,925; May 26.
Corn shock compressor. E. B. Boehm. 2,284,119; May 26.
Corrosion inhibition. J. H. Werntz. 2,284,241; May 26.
Cotton baling apparatus. W. D. Cohea and H. S. Eubanks. 2,284,044; May 26.
Coupling: *See*—
Fluid coupling. Pipe coupling.
Friction coupling. Timber coupling.
Coupling. S. V. Dillon. 2,283,974; May 26.
Coupling method and apparatus. R. L. Harvey. 2,283,926; May 26.
Cover: *See*—
Bag or sleeping cover.
Cracking operation, Combination. H. D. Noll and O. L. Branson. 2,284,493; May 26.
Crimping device. J. Burkhardt. 2,284,259; May 26.
Current generator, Saw-tooth. T. Mulert and F. Rudert. 2,284,337; May 26.
Curtain track support. E. J. Vallen. 2,284,310; May 26.
Cutter: *See*—
Pastry cutter. Tube cutter.
Damming device. W. H. Silver. 2,284,172; May 26.
Deflecting circuit. R. B. Dome. 2,284,378; May 26.
Dehumidifier, Drum type. F. R. Higley. 2,283,990; May 26.
Dehydrators, Charging and conditioning. G. J. Henry. 2,283,989; May 26.
Demodulation circuit. E. Peterson. 2,284,444; May 26.
Detergent composition. W. P. Ericks. 2,284,086; May 26.
Developing process. H. Smith. 2,284,236; May 26.
Device for feeding rods or tubes in grinding machines or the like. J. E. Bergström. 2,284,257; May 26.
Device for placing bag covers over garments. D. J. McCarty. 2,284,160; May 26.
Device for spraying printed sheets. A. Büttner. 2,283,969; May 26.
Device for the production of metal band joints. A. Pniemassing. 2,283,947; May 26.
Discharge device. H. C. Pollock. 2,284,341; May 26.
Discharge devices, Method and apparatus for exhausting and filling. C. Bol. 2,284,036; May 26.
Discharge valve. W. F. Peterson and A. U. Walter. 2,283,945; May 26.
Dishwasher. G. E. Stockham. 2,284,025–6; May 26.
Dispatching and control system for elevators. G. Watson. 2,284,113; May 26.
Dispenser or the like, Liquid. J. P. Glass. 2,284,316; May 26.
Dispensing cabinet. R. B. Norris. 2,284,225; May 26.
Dispensing container. J. K. Livingston. 2,284,218; May 26.
Dispenser: *See*—
Acid dispenser.
Plastic material dispenser.
Display device. H. Barry. 2,283,908; May 26.
Display device for photo prints or the like. R. W. Arnold and S. Schelnman. 2,284,031; May 26.

Door interlock, Electrical. A. L. Brown. 2,284,125; May 26.
Door lock. G. Madland and R. A. Lehnhoff. 2,284,099; May 26.
Drain, Roof. A. Gordon. 2,284,416; May 26.
Drawbar. L. M. Endres. 2,284,408; May 26.
Drawing table. J. C. Jensen. 2,283,997; May 26.
Dressing tool. J. C. Whitesell, Jr. 2,284,483; May 26.
Drive mechanism, Stop and synchronized. C. J. Stuart. 2,284,308; May 26.
Drive, Reversible. R. Birmann. 2,284,362; May 26.
Driving mechanism. J. W. Allen. 2,284,353; May 26.
Dual wheeled vehicle. C. S. Ash. 2,284,357; May 26.
Dust-precipitator, Electrical. P. H. Wyckoff. 2,283,964; May 26.
Dyestuffs of the phthaloyl carbazole series, Vat. W. Mieg and F. Wieners. 2,284,062; May 26.
Eave trough protector. J. V. Morrissey. 2,284,440; May 26.
Educational building setup for rough plumbing. E. B. Van Antwerp. 2,284,458; May 26.
Electric connector. G. Price. 2,284,231; May 26.
Electric deseaming. R. F. Wyer. 2,284,351; May 26.
Electric lighting method and apparatus. H. E. Schwanger. 2,284,481; May 26.
Electrical circuit interrupting means. H. Weichsel. 2,284,114; May 26.
Electrical connector. M. G. Heiser. 2,284,392; May 26.
Electrical connector assembly. A. L. W. Williams. 2,284,462; May 26.
Electrical device. J. W. West. 2,284,547; May 26.
Electrical outlet, Continuous. N. La Jone, Sr. 2,284,097; May 26.
Electricity conductor unit and using same. J. F. O'Brien. 2,284,163; May 26.
Electricity meter. J. Indergand. 2,284,428; May 26.
Electrode holder. S. J. and K. M. Irwin. 2,283,996; May 26.
Electromagnetic waves, Transmission, radiation and reception of. A. P. King. 2,283,935; May 26.
Electron tube mount of the shielded element type. G. L. Rishell. 2,284,495; May 26.
Embrittlement cracking characteristics of solutions, Testing. W. C. Schroeder. 2,283,955; May 26.
Emulsifiable composition and preparing same. E. W. Scripture, Jr. 2,284,023; May 26.
Engine: *See*—
Internal combustion engine. Rotary Diesel engine.
Engine. V. O. Martin. 2,284,608; May 26.
Engine starting apparatus. D. P. Kearney. 2,284,431; May 26.
Engine starting mechanism. H. E. Baer. 2,284,358; May 26.
Engine starting mechanism. R. M. Nardone. 2,284,338; May 26.
Engine transmission device. J. H. Sissel. 2,284,595; May 26.
Envelope. H. G. Frick. 2,284,386; May 26.
Esters of polyglycerol. H. A. Bruson. 2,284,127; May 26.
Esters of terpene phenols. F. Lemmer and K. Hultzsch. 2,284,156; May 26.
Ethers of protocatechuic aldehyde. L. P. Kyrides. 2,284,287; May 26.
Excavator. H. W. Klages. 2,284,215; May 26.
Exercising device, Mechanical. H. C. F. Korte. 2,284,061; May 26.
Exhaust device for internal combustion engines. P. E. Mercier. 2,284,334; May 26.
Fabric and method, Knitted. W. L. Smith, Jr. 8,284,454; May 26.
Fabrics, Treatment of mechanical. C. C. Gordon. 2,284,387; May 26.
Fan unit, Suction. J. M. Funk. 2,284,141; May 26.
Fastener: *See*—
Hook fastener.
Fastening devices, Mounting. W. H. Miller. 2,284,222; May 26.
Fastening elements and utilizing same. A. Fridolph. 2,284,274; May 26.
Feeder for nail-making machines, Rotary. J. H. Snell. 2,284,596; May 26.
Feeding machine for rolling mills. J. B. Johnson. 2,284,575; May 26.
Feeding mechanism for printing presses. J. F. Jirousek. 2,284,429; May 26.
Feeding mechanism for sewing machines. H. Hacklander. 2,284,471; May 26.
Fibrous materials, Treatment of. P. C. Schroy. 2,284,609; May 26.
Filaments, Process and apparatus for winding. J. W. Allquist. 2,284,244; May 26.
Film inspecting apparatus. G. Kemna. 2,284,150; May 26.
Film magazine and feeding means, particularly for photo-recording cameras, photographic. E. S. Hineline. 2,284,487; May 26.
Films, Nonfibrous. F. M. Meigs. 2,284,100; May 26.
Filter: *See*—
Parasitic filter.
Filter. A. D. Redner. 2,284,447; May 26.
Fishhook, Expanding. A. Binkowski. 2,284,034; May 26.
Fishing apparatus. T. M. Parker. 2,284,537; May 26.
Fishing sinker. C. K. Ebersole. 2,284,564; May 26.
Fitting. T. W. Briegel. 2,284,365; May 26.
Fitting for tempered glass panels. G. F. Erath. 2,284,469; May 26.
Floor furnace. B. F. Stephens. 2,284,542; May 26.
Flue cleaner. J. Hefle. 2,284,391; May 26.
Fluid coupling. C. Breer and G. R. Pennington. 2,283,123; May 26.
Fluids, Treating well. J. P. Walker and E. V. Foran. 2,284,112; May 26.
Fluorescent lamp. L. C. Doane. 2,284,046; May 26.
Folder. H. C. Fay. 2,283,980; May 26.
Folder. W. A. Ringler. 2,283,949; May 26.
Folding high chair. H. T. Tucker. 2,284,498; May 26.
Folding machine. W. E. Naugler. 2,284,010; May 26.
Food mixer. M. J. Landgraf. 2,284,155; May 26.
Foot correctional device. M. S. Crissy. 2,283,917; May 26.
Form, Construction. E. E. Jones. 2,284,149; May 26.
Form, Wall. G. H. Brimhall. 2,284,559; May 26.
Friction coupling. P. M. Freer. 2,284,193; May 26.
Fuel adjuvant, Motor. W. J. Backoff, N. D. Williams, J. F. O'Loughlin, H. L. Moir, and J. S. Yule. 2,284,080; May 26.
Fuel burner. G. B. Crisp. 2,284,264; May 26.
Furnace: *See*—
Annealing furnace. Floor furnace.
Bell type furnace.
Furnace and stove construction. P. Wingert. 2,284,464; May 26.
Furnace construction. S. Burgess and N. Schoeppel. 2,284,368; May 26.
Furniture. W. H. Schuh. 2,284,480; May 26.
Fuse construction. J. W. May. 2,284,201; May 26.
Fuse, Multiple. H. Altschule. 2,284,599–600; May 26.
Game board, One-piece foldable. H. Ziemmerman. 2,284,242; May 26.
Game, Card. P. J. Benrath. 2,284,256; May 26.
Garment. C. Elberfeld. 2,284,382; May 26.
Garments, Method of and apparatus for finishing. J. H. Richa. 2,284,232; May 26.
Gas cutting apparatus. J. D. McKiernan. 2,284,005; May 26.
Gases, Scrubbing. E. H. Greenberg. 2,284,317; May 26.
Gauge construction. H. Seegers and W. L. Pollard. 2,284,234; May 26.
Gauging and sampling apparatus for pressure tanks. W. Pfeiffer. 2,284,396; May 26.
Gear: *See*—
Change speed transmission gear. Steering gear.
Vehicle steering gear.
Gear shifting mechanism. H. Baade. 2,284,246; May 26.
Generator: *See*—
Current generator. Oscillation generator.
High voltage generator. Steam generator.
Impulse generator.
Geophysical prospecting, Method and apparatus for. C. H. Schlesman. 2,284,345; May 26.
Glass forming machine. S. D. Bert. 2,284,508; May 26.
Glass, Luminescent. M. Hüniger. 2,284,055; May 26.
Glass making batches, Feeding. H. L. Halbach, W. G. Koupal, and W. Owen. 2,284,420; May 26.
Glove. F. Speranden. 2,284,541; May 26.
Glove, Boxing. De W. A. Portal. 2,284,300; May 26.
Glow discharge lamp. D. Canaday. 2,284,084; May 26.
Goods, White. T. B. Wagner. 2,284,239; May 26.
Grab, Hoist. J. W. Todd. 2,284,238; May 26.
Grader, Road. R. J. Wilson. 2,284,463; May 26.
Grain pan for combines. A. Korsmo and M. Ronning. 2,284,433; May 26.
Granular material, Method of and apparatus for supplying. K. G. Kutchka. 2,284,398; May 26.
Grille, Adjustable end slide. J. F. Farmer. 2,284,410; May 26.
Grinding machine. J. I. Garside. 2,284,050; May 26.
Grinding machine. H. A. Silven. 2,284,073; May 26.
Grinding machine, Camshaft bearing. C. G. Flygare and C. C. Alvord. 2,284,606; May 26.
Grinding mill. R. O. Wood. 2,284,548; May 26.
Guide, Spinning line. C. G. Booker. 2,284,120; May 26.
Gum massaging and teeth strengthening device. F. J. Gruss. 2,284,200; May 26.
Gun, Grease. C. J. Neuman. 2,284,533; May 26.
Gun mount, Remotely controlled. G. E. Barnhart. 2,284,611; May 26.
Halo-substitution of mixtures containing saturated organic compounds. W. E. Vaughan and F. F. Rust. 2,284,482; May 26.
Hammer. N. C. Woodin. 2,284,030; May 26.
Handbag. W. M. Kanzow. 2,284,212; May 26.
Handle: *See*—
Switch handle.
Head-lamp mounting. J. S. Parkes. 2,284,538; May 26.
Headrest. H. A. and L. Kaiser, and G. R. Shepard. 2,284,058; May 26.
Hearse mechanism, Side loading. D. E. Bench, M. A. Crosby, and G. J. Wintermute. 2,284,116; May 26.
Hearse mechanism, Side loading. M. A. Crosby and D. E. Bench. 2,284,187; May 26.
Heat insulation structure and making the same. R. A. MacArthur and H. W. Greider. 2,284,439; May 26.

Heater: *See*—
Lead pot heater. Space heater.
Orchard heater.
Heater. J. T. Grotenhuis. 2,283,986; May 26.
Heating apparatus firebox with two combustion flues, Domestic. A. Zuberbuhler. 2,284,506; May 26.
Heating system. S. R. Porwancher. 2,284,165; May 26.
Heating system valve. H. S. Kehm and C. G. Newton. 2,284,059; May 26.
Heating units, Making electrical. E. L. Wiegand. 2,284,078; May 26.
Heel. E. J. Korda. 2,284,326–8; May 26.
High frequency apparatus. E. D. McArthur. 2,284,405; May 26.
High pressure union. E. O. Kunkel. 2,284,216; May 26.
High voltage generator. N. E. Lindenblad. 2,284,159; May 26.
Hinge guard. E. E. Howe. 2,284,320; May 26.
Hitch. P. Hansmann. 2,284,145; May 26.
Holder: *See*—
Cigarette holder. Paintbrush holder.
Container and picture holder. Soap holder.
Tool and blade holder.
Electrode holder. Tool holder.
Lamp holder. Wedding bouquet holder.
Matchbook holder.
Honing device. K. W. Connor. 2,284,134; May 26.
Honing machine. J. E. Kline. 2,284,325; May 26.
Hook: *See*—
Safety hook.
Hook fastener. T. K. Gibson. 2,283,983; May 26.
Hooks for sewing machines, Lubricated. W. J. Peets, D. A. Graesser, and L. C. Marsac. 2,284,474; May 26.
Humidifier. R. W. Gammon. 2,284,414; May 26.
Humidifier. H. Goodman and V. S. Dillingham. 2,284,195; May 26.
Hydraulic machine, Rotary. L. F. Moody. 2,284,295; May 26.
Hydraulic system. H. C. Frentzel, Jr. 2,284,413; May 26.
Hydrocarbon synthesis. R. E. Burk and E. C. Hughes. 2,284,468; May 26.
Hydrocarbons, Treating. P. E. Kuhl. 2,284,581; May 26.
Hydrohalogenation of unsaturated hydrocarbons. S. A. Ballard. 2,284,467; May 26.
Hydrolysis of cellulosic materials. C. Warth. 2,284,500; May 26.
Identification and article produced thereby, Method of. A. W. Jordan. 2,284,093; May 26.
Identification device. S. Arico. 2,283,898; May 26.
Ignition system of internal combustion engines and a method of controlling the spark. H. H. Roberts, Jr. 2,284,068; May 26.
Illuminated sign. L. R. Tschopp. 2,284,309; May 26.
Impression member. A. W. Jordan. 2,284,095; May 26.
Impulse generator. B. W. Robins. 2,284,101; May 26.
Indicating device. A. E. Rineer. 2,284,588; May 26.
Instrument. F. H. Hopkins. 2,283,994; May 26.
Instrument, Measuring. C. W. Hansell. 2,284,423; May 26.
Insulation for linemen, Protective. R. M. Evans. 2,284,190; May 26.
Intaglio marking composition, Quick drying. D. M. Gans. 2,284,276; May 26.
Intaglio marking composition, Quick drying. A. E. Gessler, D. M. Gans, and P. W. Greubel. 2,284,277; May 26.
Intaglio marking composition, Quick drying. P. W. Greubel. 2,284,279; May 26.
Interlocking mechanism for power transmissions. C. F. Ball and L. G. Hilkemeier. 2,284,250; May 26.
Internal combustion engine. J. G. Vincent. 2,283,959; May 26.
Internal combustion engine, Rotary. H. F. Wolstenholme. 2,284,186; May 26.
Iron: *See*—
Pressing iron. Steam puff iron.
Ironing device, Electric. A. B. Chereton. 2,284,132; May 26.
Jamb for shower stall doors, Adjustable. W. Stahl. 2,284,074; May 26.
Jiffy milk cooler. E. F. Baumgarden. 2,283,904; May 26.
Joint: *See*—
Connector and joint. Universal joint.
Slip joint.
Journal lubricator. R. W. Miller. 2,283,939; May 26.
Ketones containing aldehyde, Treating unsaturated. J. H. Brant and B. Thompson. 2,283,911; May 26.
Keyless lock. A. Petrusak. 2,284,294; May 26.
Knitting machine. W. E. Ralston. 2,284,167; May 26.
Knitting machine and method of knitting. A. L. Hutton and E. St. Pierre. 2,283,995; May 26.
Labeling apparatus. P. R. Powell. 2,284,019; May 26.
Lamp: *See*—
Fluorescent lamp. Glow discharge lamp.
Lamp holder. F. C. De Reamer and A. G. Mueller. 2,284,376; May 26.
Lamp-making method. C. A. Laise. 2,284,288; May 26.
Land vehicle, Tiltable body equipped. G. D. Fraunfelder. 2,284,140; May 26.
Lapping machine. H. S. Indge. 2,284,056; May 26.
Latch: *See*—
Safety latch.
Lead pot heater. P. M. Forster. 2,283,981; May 26.
Lens for optical purposes. J. W. French. 2,284,567; May 26.
Lens, Magnetic electron. H. W. Paehr. 2,284,227; May 26.
Lighter, Pyrophoric. L. Bolle. 2,283,909; May 26.
Lighting device. L. G. Boomsma. 2,284,363; May 26.
Lighting fixture. R. Orth. 2,284,534; May 26.
Lighting system, Indirect. A. Gangbin. 2,284,194; May 26.
Lightning arrester, plunger type. G. B. Roloson. 2,284,478; May 26.
Lipstick container. R. L. McKnight and W. H. Machin. 2,284,162; May 26.
Liquid density, Measuring and recording. W. T. Knauth. 2,284,060; May 26.
Liquid dispensing device. J. C. Barreda and H. J. McLaughlin. 2,284,252; May 26.
Lock: *See*—
Automobile door lock. Keyless lock.
Door lock. Nut lock.
Locking device for vehicle wheels. A. V. Mandekic. 2,284,220; May 26.
Locking means for lockers and the like. C. A. Johnson and J. A. Greenfield. 2,284,092; May 26.
Locomotive control system. H. S. Ogden. 2,284,442; May 26.
Lubricating composition. B. T. Brooks. 2,284,258; May 26.
Lubricator: *See*—
Journal lubricator.
Luminous tube, High intensity. R. U. Clark. 2,284,263; May 26.
Lure, Fish. W. J. Wade. 2,283,960; May 26.
Machine for connecting leads of armature coils to commutators. J. F. Cullin. 2,284,373; May 26.
Machine for recording data on wall paper. A. W. Jordan. 2,284,094; May 26.
Machine for the extraction of gold and other minerals. S. Stageberg. 2,284,105; May 26.
Marine drive and reverse gear. E. V. Rippingille. 2,284,589; May 26.
Marking mechanism for dictation machines. H. P. Clausen. 2,284,043; May 26.
Mask, Gas. S. Hermann. 2,284,053–4; May 26.
Master alloy. J. Wulff. 2,283,902; May 26.
Mat, Rubber. L. M. Oakley. 2,284,494; May 26.
Matchbook holder. L. M. Spicer. 2,284,174; May 26.
Material classifier. H. C. Hirsch. 2,283,992; May 26.
Material distributor, Road. S. S. Stubley. 2,284,175; May 26.
Material from 1-cyanobutadiene-1,3 and butadienes-1,3, Synthetic rubberlike. B. J. Habgood, E. Isaacs and L. B. Morgan. 2,284,281; May 26.
Materials from 1-cyanobutadiene-1,3 and 2-chlorobutadiene-1,3, Synthetic rubberlike. B. J. Habgood, E. Isaacs and L. B. Morgan. 2,284,280; May 26.
Mechanism for applying labels to articles. G. W. von Hofe. 2,284,311; May 26.
Melamine, Manufacture of. A. C. Wintringham and V. L. King. 2,284,079; May 26.
Menaphthyl cellulose derivatives. W. Hentrich and R. Köhler. 2,284,282; May 26.
Metal plate construction, Reinforced. J. Schmeller, Sr. 2,284,022; May 26.
Metal sign press. E. G. Van Buren and R. F. Jackson. 2,284,076; May 26.
Metallic articles and the like for shipment, Assembling. D. F. Hedges. 2,283,930; May 26.
Metals, Packing of powdered. P. P. Alexander. 2,284,551; May 26.
Meter: *See*—
Audible meter. Parking meter.
Electricity meter. Sewage meter.
Meter seal. H. Chrisman. 2,284,511; May 26.
Mill: *See*—
Grinding mill.
Mixer: *See*—
Food mixer.
Modulation circuit. J. M. Manley and L. R. Wrathall. 2,284,401–2; May 26.
Mold. F. H. Bunch. 2,283,968; May 26.
Mold filling apparatus. F. A. McCann. 2,284,332; May 26.
Molding. W. J. Hall. 2,284,421–2; May 26.
Molds, Making. H. T. Kraft. 2,284,000; May 26.
Motor: *See*—
Synchronous-electric motor.
Motor drive, Alternating current. C. C. Clymer, G. Kron and C. Concordia. 2,284,469; May 26.
Motor drive for aircraft propellers, Multiple. A. S. Menasco and H. L. Hibbard. 2,284,473; May 26.
Motor with variable pitch automatic speed control, Wind. J. N. Insua. 2,284,521; May 26.
Mounting: *See*—
Head-lamp mounting. Spectacle mounting.
Ophthalmic mounting.
Mounting for trailers, Multiple axle. A. L. Ayers. 2,284,245; May 26.
Musical instrument, Wind. N. C. Pickering. 2,284,016; May 26.

Nebulizer. W. H. Rose. 2,284,591; May 26.
Network, Wave transmission. W. P. Mason. 2,284,529; May 26.
Novelty or flag display. C. B. Holm. 2,284,209; May 26.
Nozzle, Blanket spray. R. P. Paradise. 2,284,443; May 26.
Nozzle, Shut-off. J. W. Grant and H. M. Hunt. 2,283,985; May 26.
Nozzle, Tank filling. F. G. Thwaits. 2,284,350; May 26.
Nut, Lock. A. H. Beggs. 2,284,081; May 26.
Oil, Dewaxing. C. Marshall. 2,284,607; May 26.
Oil well tool. J. J. Santiago. 2,284,170; May 26.
Oils, Refining of mineral. W. H. Rupp and K. E. Thorp. 2,284,592; May 26.
Oils, Sweetening sour hydrocarbon. L. U. Franklin. 2,284,273; May 26.
Oils, Sweetening sour hydrocarbon. L. U. Franklin and W. H. Weeks. 2,284,271; May 26.
Oils with light hydrocarbons, Process for treating hydrocarbon. W. K. Lewis. 2,284,583; May 26.
Ophthalmic mounting. G. P. Kimmel. 2,284,524; May 26.
Optical observation instrument. J. W. French. 2,284,049; May 26.
Orchard heater. A. S. Leonard. 2,284,157; May 26.
Organic compounds, Purification of high-melting. E. C. Britton, F. B. Smith and R. L. Brown. 2,284,124; May 26.
Oscillating chair. J. Heller. 2,284,571; May 26.
Oscillation generator. H. M. Crosby. 2,284,372; May 26.
Package. S. J. Silberman. 2,284,171; May 26.
Package, Exhibition. N. H. Lonz. 2,284,527; May 26.
Package, Match. R. L. Bergman and H. Evans. 2,284,032; May 26.
Package, Merchandise. W. A. Ringler. 2,283,950; May 26.
Packing. W. H. Brooks. 2,284,604; May 26.
Packing. H. R. Nuckles. 2,284,340; May 26.
Packing gland with oversize floating gasket. G. N. Hein. 2,284,424; May 26.
Packing, Shaft. O. L. Wood. 2,284,465; May 26.
Pad: *See*—
Pressing pad.
Paintbrush holder. R. J. Simons. 2,284,452; May 26.
Paper making machine. R. T. Lang. 2,284,098; May 26.
Paper waxing machine. J. Bennett. 2,284,553; May 26.
Parachute projectile. C. R. Craray. 2,284,371; May 26.
Parasitic filter. G. L. Usselman. 2,284,181; May 26.
Parking meter. J. B. McGay. 2,284,221; May 26.
Particles of hydrous alkali metal silicates, Manufacture of shaped. C. L. Baker, P. Wynne, and C. H. Dedrick. 2,284,248; May 26.
Pastry cutter. W. Stauffacher. 2,284,455; May 26.
Paving compositions, Preparation of. C. Mack. 2,283,937; May 26.
Peracids, Preparation of. J. S. Reichert, S. A. McNeight, and A. A. Elston. 2,284,477; May 26.
Percolator, Coffee. B. J. Steinmetz. 2,283,957; May 26.
Petroleum distillates, Stabilization of nonviscous cracked. F. B. Downing and C. J. Pedersen. 2,284,267; May 27.
Petroleum distillates, Sweetening light. L. U. Franklin, W. H. Weeks, and J. W. Harris. 2,284,272; May 27.
Petroleum hydrocarbons to produce gasoline, Refining of. W. T. Hancock. 2,284,204; May 26.
Petroleum oil emulsions, Treating. B. A. Stagner. 2,284,106; May 26.
Petroleum phenol composition, Nitrated. H. B. Kellog and P. J. Gaylor. 2,284,523; May 26.
Phase control in electrical transmission. E. I. Green and N. Monk. 2,284,612; May 26.
Piezoelectric device and neutralizer. G. L. Usselman. 2,284,545; May 26.
Piezoelectric elements, Mounting. P. D. Gerber. 2,284,088; May 26.
Pigment treatment. R. L. McCleary. 2,284,585; May 26.
Pigments in rubber, Dispersion of. H. A. Sweet. 2,284,610; May 26.
Pin setting machine. E. Hedenskoog. 2,284,208; May 26.
Pipe clamp. C. M. Baker. 2,283,899; May 26.
Pipe coupling. S. V. Dillon. 2,283,975; May 26.
Piston. L. T. Knocke. 2,284,152; May 26.
Pitch propeller, Automatic controllable. G. T. Lampton, P. F. Hackethal, and A. T. Briggs. 2,284,154; May 26.
Plastic. J. A. Kennedy. 2,284,432; May 26.
Plastic material dispenser. E. D. Skinner. 2,284,602; May 26.
Polystyrene product. E. O. Meyer. 2,284,335; May 26.
Post, Permanent binding. W. Pitt. 2,284,018; May 26.
Pot for use in heat treating bundles of wire. C. D. Johnson. 2,284,057; May 26.
Power transmission. C. A. Neracher, W. T. Dunn, T. Iavelli, A. J. Syrovy, and O. W. Schotz. 2,284,224; May 26.
Power transmission. O. W. Schotz. 2,284,233; May 26.
Power unit including means and method for controlling same, Rotary. B. T. Fitzpatrick. 2,284,139; May 26.
Press: *See*—
Metal sign press.
Press. R. W. Glasner. 2,284,569; May 26.
Press construction. F. J. Rode and M. R. Hatch. 2,284,303; May 26.
Pressing iron. G. T. Fielding. 2,284,411; May 26.
Pressing pad. R. E. Crary. 2,284,136; May 26.
Pressure booster unit. L. R. Williamson. 2,283,961; May 26.
Pressure multiplying mechanism. H. E. Page. 2,284,228; May 26.
Pressure release. A. L. and L. Crump. 2,284,561; May 26.
Production indicating apparatus. F. C. Holtz and C. H. Lanphier. 2,283,993; May 26.
Products capable of preventing the coagulation of blood and a method of making the same. H. Eisner. 2,284,566; May 26.
Propeller, Variable pitch. W. J. Fiko. 2,284,516; May 26.
Protector: *See*—
Eave trough protector.
Puller: *See*—
Tie puller.
Pump: *See*—
Triple acting pump.
Pump or motor, Hydraulic. H. F. Vickers. 2,284,109–11; May 26.
Pump or motor, Hydraulic. K. R. Herman. 2,284,146; May 26.
Pump or motor, Hydraulic. J. Robinson. 2,284,169; May 26.
Puncturing device for containers. D. Ostrander. 2,284,066; May 26.
Rack: *See*—
Boot rack. Chip rack.
Rack with built-in lighting fixtures, Luggage. A. L. Arenberg. 2,284,356; May 26.
Radiator, Self-thawing. L. D. Boyd. 2,284,121; May 26.
Radio direction finding system. J. Plebanski. 2,284,475; May 26.
Radio receiver control device. G. W. Thelin. 2,284,179; May 26.
Radio signaling system. V. B. Bagnall. 2,284,247; May 26.
Radiometeorography, Art of. H. Diamond and W. S. Hinman, Jr. 2,283,919; May 26.
Rail for overhead monorail carrier systems. W. G. Wehr. 2,284,240; May 26.
Receiver. H. G. Modine. 2,284,063; May 26.
Record changing mechanism for phonographs. H. V. Slade. 2,284,305; May 26.
Record, Phonograph. J. H. Hunter. 2,284,091; May 26.
Record, Visible multiple. J. B. McDermott. 2,284,586; May 26.
Rectifying system. S. Hansen. 2,284,389; May 26.
Reel: *See*—
Blasting cable reel.
Reel. J. Wallace. 2,284,077; May 26.
Refrigerating apparatus. B. Hall. 2,283,923; May 26.
Refrigeration apparatus. L. H. von Ohlsen. 2,284,546; May 26.
Refrigeration expansion valve. G. W. and J. A. Smith. 2,284,496; May 26.
Refrigerator. K. A. Mills. 2,284,293; May 26.
Refrigerator. C. H. Nauert. 2,284,339; May 26.
Relay system. H. E. Goldstine. 2,284,415; May 26.
Relief valve. F. H. Van Nest. 2,284,457; May 26.
Reproducer and light gate therefor, Tape-actuated. E. F. Stevens. 2,284,024; May 26.
Resins of the sulphur dioxide-olefin type, Producing. M. M. Barnett. 2,283,900; May 26.
Rimming machine. A. B. Wilson and E. V. Swangren. 2,283,962; May 26.
Ripper. A. G. Gurries. 2,284,388; May 26.
Roasting apparatus. H. J. Kennedy. 2,284,096; May 26.
Roll, Cloth. A. G. Henry and H. C. Rodgers. 2,284,425; May 26.
Roller construction. G. H. Hufferd and M. P. Graham. 2,284,427; May 26.
Rotary Diesel engine. J. N. Warner. 2,284,184; May 26.
Rotor brake. W. H. Baselt and C. E. Tack. 2,284,253; May 26.
Rubber articles, Process and apparatus for producing. T. F. Hassett. 2,284,520; May 26.
Rubber compositions, Vulcanizable. P. C. Jones. 2,284,578; May 26.
Rubber, Treatment of. L. H. Howland. 2,284,284; May 26.
Rubber, Vulcanization of. P. C. Jones. 2,284,579; May 26.
Rubber, Vulcanization of. P. C. Jones and R. A. Mathes. 2,284,576–7; May 26.
Rupture support. C. A. Thurmond. 2,284,544; May 26.
Rust preventive compound. E. R. Irwin. 2,283,931; May 26.

Safe and the like, Ledger. W. C. Miller and E. Boughton. 2,284,531; May 26.
Safety hook, Releasing. H. H. Greene. 2,284,197; May 26.
Safety latch, Resilient. H. A. McCurdy. 2,284,004; May 26.
Safety switch. A. J. Harmon and W. G. Coakley. 2,284,206; May 26.
Safety switch. H. T. Sparrow. 2,284,597; May 26.
Sampling-proportioning device. H. G. Cornell. 2,284,560; May 26.
Sanding machine. T. F. Brackett. 2,284,556; May 26.
Sash balance and weather strip, Combination. H. K. Lundgren. 2,284,436; May 26.
Sash balance and weather strip, Combination. H. K. Lundgren. 2,284,438; May 26.
Sawing apparatus, Portable. E. D. V. Tompkins. 2,283,958; May 26.
Seat: *See*—
Spring seat.
Scale, Postal. F. J. Linsley. 2,284,526; May 26.
Scanning system. F. Gray. 2,284,417; May 26.
Scarifier. I. Sublett. 2,284,178; May 26.
Scraper. H. C. Frentzel, Jr., and H. C. French. 2,284,412; May 26.
Seat. D. G. Zank. 2,284,352; May 26.
Securing device, particularly such device as aircraft cowlings and the like. F. M. Thomas. 2,284,180; May 26.
Separator: *See*—
Sheet separator.
Servosystem for airplanes and other vehicles. J. C. Newton. 2,284,298; May 26.
Sewage meter. R. Bennett. 2,283,906; May 26.
Sewing machine. J. A. Cordeau. 2,284,514; May 26.
Shafting, Flexible. C. F. Hotchkiss, Jr. 2,284,090; May 26.
Sharpening or honing appliance. K. Park. 2,284,535; May 26.
Shaving implement. J. Bruecker. 2,284,038; May 26.
Sheet feeding mechanism. J. F. Jirousek. 2,284,430; May 26.
Sheet metal cutting tool. H. A. Parker. 2,284,536; May 26.
Sheet separator. S. K. Sayles. 2,284,071; May 26.
Shelf, Hanger. W. Henry. 2,284,393; May 26.
Shoemaking machinery. J. M. Rohrer. 2,283,953; May 26.
Shoes, Manufacture of. E. C. Pitman. 2,283,946; May 26.
Sickle and drive, Divider. J. Fink. 2,284,517; May 26.
Sign: *See*—
Illuminated sign.
Signal. S. H. Caldwell. 2,284,040; May 26.
Signal. L. J. Stern. 2,284,177; May 26.
Signaling by electromagnetic waves, System for. H. J. J. M. de R. de Bellescize. 2,284,266; May 26.
Signal transmission system, Electric. J. Collard. 2,284,085; May 26.
Signal wave form indicating system. A. V. Loughren. 2,284,219; May 26.
Signaling system. H. S. Black. 2,284,555; May 26.
Signaling system, Photoelectric. M. H. A. Lindsay. 2,284,289; May 26.
Slip joint, Torque transmitting. A. F. Greiner. 2,284,199; May 26.
Snap switch. J. E. Lake. 2,284,437; May 26.
Snubber, Rotary. C. F. Hammond. 2,284,203; May 26.
Soap holder. E. V. Heath. 2,283,988; May 26.
Socket and switch, Combined lamp. F. D. Bryant and W. R. Young. 2,284,367; May 26.
Socket, Lamp. J. P. Jorgensen. 2,283,934; May 26.
Soil gas analysis, Method and apparatus for. H. N. Herrick. 2,284,147; May 26.
Solenoid. W. F. Oliver. 2,284,011; May 26.
Soles, Slitting shoe. P. A. Sperry. 2,284,307; May 26.
Solutions, Decolorizing. M. Seidel. 2,284,593; May 26.
Sound recording and reproducing system. E. W. Sparling. 2,284,306; May 26.
Sound, Reproduction of. W. A. Bruno. 2,284,039; May 26.
Space heater. R. B. Evans and E. F. Farrell. 2,284,138; May 26.
Spectacle mounting. W. R. Churchill. 2,284,262; May 26.
Speed transmission mechanism, Variable. O. E. Fishburn. 2,284,191; May 26.
Spindle. A. E. Winslow. 2,283,963; May 26.
Spinning process, Dry. L. Ubbelohde. 2,284,028; May 26.
Spool. H. C. Howsam. 2,283,426; May 26.
Spotting table. J. R. Holder. 2,284,572; May 26.
Spring for key holding hooks, Self-attaching. H. and M. Behrman. 2,284,507; May 26.
Spring seat. J. R. Thomas. 2,284,108; May 26.
Springing for railway trucks. I. M. Chambers. 2,283,971; May 26.
Staking machine. L. J. Lambert. 2,284,001; May 26.
Stand: *See*—
Target stand.
Tire-display stand.
Starter for internal combustion engines, Hand. A. M. Porter. 2,284,230; May 26.
Starter, Oil burner. A. Garber. 2,284,568; May 26.
Starter switch. C. Chirelstein. 2,283,972; May 26.
Steam generator. R. Shellenberger and E. M. Freeman. 2,284,601; May 26.
Steam puff iron. A. J. Weber and C. P. McCracken. 2,284,313; May 26.
Steering gear, Shock absorbing. C. F. Hammond and H. E. Pulleyblank. 2,284,202; May 26.
Stem and contact base for electron tubes and the like, Unitary. W. E. Kingston. 2,284,151; May 26.
Stock, Composite laminated plate. W. J. Wrighton and T. C. Jarrett. 2,284,504; May 26.
Strainer, Food. E. P. Quinby. 2,284,342; May 26.
Strip products, Treating composite. C. Batcheller. 2,284,254; May 26.
Submarine hydraulic concentrator for precious metals. W. F. Watkins. 2,284,459; May 26.
Sugar solutions, Purifying. R. Boyd. 2,284,122; May 26.
Sulphur acid from carboxylic acids, Separation of. W. H. Hill. 2,283,991; May 26.
Support: *See*—
Arch support.
Clothesline support.
Curtain track support.
Rupture support.
Visor support.
Support for wires. C. W. Roberts. 2,284,302; May 26.
Supporting structure, Adjustable and collapsible. C. T. Shoop and H. Gohs. 2,284,304; May 26.
Supports for tool joints, Making sealing. L. J. Castallanos. 2,284,260; May 26.
Switch: *See*—
Safety switch.
Snap switch.
Starter switch.
Thermal switch.
Switch for lathes. H. D. Martin. 2,284,404; May 26.
Switch handle. J. F. Beal. 2,283,905; May 26.
Synchronous-electric motor, Self-starting. W. Kohlhagen. 2,284,395; May 26.
Syringe. S. F. Cole. 2,283,915; May 26.
Table: *See*—
Bookcase end table.
Drawing table.
Spotting table.
Table leaf support operating means. V. C. Luppert. 2,284,003; May 26.
Tamping machine. A. Schmidt. 2,284,072; May 26.
Tank filling device. C. F. Pye. 2,284,166; May 26.
Target stand. C. W. Cates. 2,284,510; May 26.
Teapot. H. C. Ferguson. 2,284,087; May 26.
Telegraph circuit. E. J. Muench and M. L. Greene. 2,284,296; May 26.
Telegraph keyboard transmitter. V. R. Kimball and R. F. Dirkes. 2,284,322; May 26.
Telephone system. A. Lestl. 2,284,329; May 26.
Telephoto machine. L. A. Thompson. 2,284,027; May 26.
Temperature regulating means for internal combustion engines. E. P. du Pont. 2,284,381; May 26.
Tensiometer. F. B. Breazeale. 2,284,364; May 26.
Tension device for winding and like machines. T. N. Bushey. 2,283,912; May 26.
Terminal, Bushed transformer. E. M. Meyer. 2,284,530; May 26.
Textile fabrics, Treating. J. Verduin. 2,284,182; May 26.
Therapeutic device. F. H. Pettit. 2,284,445; May 26.
Thermal insulation. F. T. Llewellyn and W. S. Palmer. 2,284,400; May 26.
Thermal switch. W. C. Smitley. 2,284,103; May 26.
Thermometer construction. G. E. Ford. 2,284,048; May 26.
Thermostatic control device. W. B. Elmer. 2,284,383; May 26.
Throttle control device. C. S. Drabble. 2,284,380; May 26.
Tie puller, Hydraulic. H. B. Hughes. 2,283,929; May 26.
Timber coupling. G. L. Kelly. 2,284,214; May 26.
Time recorder mechanism. E. G. Streckfuss. 2,284,598; May 26.
Tine study board. H. P. Welch. 2,284,501; May 26.
Tire-display stand. L. R. Owen. 2,284,299; May 26.
Tool: *See*—
Adjustable retractable tool.
Bushing reaming and driving tool.
Dressing tool.
Oil well tool.
Sheet metal cutting tool.
Tool and blade holder. P. L. Bush. 2,284,128; May 26.
Tool holder. K. J. Klein. 2,284,394; May 26.
Toothbrush pack. R. H. Lieberthal. 2,284,217; May 26.
Torpedo tube. T. Marwood. 2,284,331; May 26.
Tower, Extendable builder's. O. L. Berby. 2,284,360; May 26.
Toy gun. J. P. Claytor and R. J. Patterson. 2,284,512; May 26.
Track for track-laying vehicles. H. A. Knox. 2,283,936; May 26.
Tractor, Snow. E. M. Tucker, E. M. Tucker, Jr., and J. M. Tucker. 2,284,075; May 26.
Transformer. F. R. D'Entremont. 2,284,406; May 26.
Transmission. H. E. Edwards. 2,284,047; May 26.
Trap: *See*—
Animal trap.
Trimmer, Hedge. E. Gramps. 2,284,196; May 26.
Triple acting pump. W. H. Zehner. 2,284,505; May 26.
Truck, Industrial. H. A. Stevenson. 2,284,237; May 26.
Truck, Lift. C. W. Gannett. 2,284,275; May 26.
Truss construction. C. Grant. 2,284,143; May 26.
Truss construction. J. E. Hansen. 2,284,205; May 26.

Tube: *See*—
Luminous tube.
Torpedo tube.
Tube cutter. E. E. Condon. 2,284,133; May 26.
Tube forming machine. C. L. Dewey and S. L. Dewey. 2,284,377; May 26.
Tube or meter, Venturi. W. S. Pardoe. 2,284,013; May 26.
Tube reshaping apparatus, Glass. C. E. Hahn and J. Salo. 2,284,089; May 26.
Turbine blading. E. E. Arnold. 2,283,901; May 26.
Typewriting machine. H. L. Pitman. 2,284,017; May 26.
Typing mechanism. H. W. Klabunde. 2,284,324; May 26.
Ultra high frequency voltmeter. O. E. Dow. 2,284,379; May 26.
Universal joint. A. F. Greiner. 2,284,198; May 26.
Universal web guide. W. E. Hamlin. 2,284,318; May 26.
Upper-holding device. C. A. Robinson. 2,284,021; May 26.
Vacuum breaker. R. C. Gilbert. 2,284,051; May 26.
Valve: *See*—
Air valve.
Air vent valve.
Discharge valve.
Heating system valve.
Refrigeration expansion valve.
Relief valve.
Valve. J. P. Ashcraft. 2,283,903; May 26.
Valve. W. C. Buttner. 2,283,970; May 26.
Valve action. H. Edmonds. 2,283,979; May 26.
Valve and silencer, Antisiphonic flush. L. E. Criss. 2,283,973; May 26.
Valve control for steam heating systems, Automatic-three-way. F. N. Borsett. 2,283,910; May 26.
Valve for hydraulic power-transmission systems. A. R. Kligman. 2,284,615; May 26.
Valve mechanism for reversing furnaces. F. H. Loftus. 2,284,330; May 26.
Vaporizer, Electric. J. Robinson. 2,283,952; May 26.
Vehicle: *See*—
Dual wheel vehicle.
Land vehicle.
Vehicle body. J. W. Greig. 2,284,419; May 26.
Vehicle steering gear. C. F. Hammond. 2,284,201; May 26.
Vibrating suppressing means. C. Criswell. 2,284,515; May 26.
Vibrator inverter system. M. A. Edwards. 2,284,407; May 26.
Vise jaw attachment. S. C. Rodess. 2,284,449; May 26.
Visor support. F. J. Westrope. 2,284,502; May 26.
Voltmeter apparatus. J. R. MacKay. 2,284,476; May 26.
Voting machine. A. N. Gustavson. 2,284,144; May 26.
Wagon dump device. R. W. Oglesby. 2,284,226; May 26.
Wall building construction, Metal. G. V. Palmer. 2,284,229; May 26.
Washing apparatus. E. S. Stoddard. 2,284,456; May 26.
Washing machine. J. Zimarik. 2,284,243; May 26.
Watch. G. H. Jacot. 2,284,418; May 26.
Watch stem, Air and watertight. O. Schmitz. 2,284,594; May 26.
Waxes, Plasticized. R. J. Myers. 2,284,065; May 26.
Weather strip. A. H. Kuhlmann. 2,284,153; May 26.
Wedding bouquet holder. T. M. Welling. 2,284,029; May 26.
Welder. L. F. Kingery. 2,284,323; May 26.
Welding. G. F. Comstock. 2,283,916; May 26.
Welding apparatus. H. I. Morris. 2,283,940-2; May 26.
Welding apparatus. L. A. Yoder. 2,284,315; May 26.
Well drilling bit. A. W. Kammerer. 2,284,580; May 26.
Wheel structure, Digging. H. Hollmann and W. G. Van-Voorhis. 2,284,573; May 26.
Winch, Portable. C. H. K. Napier. 2,284,532; May 26.
Window construction. E. Peremi and L. Toth. 2,284,539; May 26.
Work following apparatus. T. F. Brackett. 2,284,557; May 26.
Work-holding apparatus. P. S. Morgan. 2,284,223; May 26.
Wrench. E. Graham. 2,283,984; May 26.
Wringer. C. K. Skinner. 2,284,453; May 26.
Wringer and the like. W. L. Kauffman. 2,284,285; May 26.

CLASSIFICATION OF PATENTS

ISSUED MAY 26, 1942

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

2— 18: 2,284,300
42: 2,284,382
131: 2,284,297
169: 2,284,541
4— 185: 2,284,494
5— 66: 2,284,470
336: 2,284,448
8— 120: 2,284,614
128: 2,284,387
136: 2,284,609
10— 171: 2,284,596
12— 7: 2,283,953
25: 2,284,308
55: 2,284,010
107: 2,284,021
142: 2,283,946
146: 2,284,307
14— 72: 2,284,022
15— 29: 2,284,213
137: 2,284,207
163: 2,284,391
177: 2,284,528
230: 2,284,425
16— 42: 2,283,978
107: 2,284,427
135: 2,284,320
18— 2: 2,284,549
5: 2,284,072
8: 2,284,244
2,284,397
2,284,399
2,284,489
2,284,497
2,284,520
54: 2,284,028
20— 3: 2,284,144
16: 2,284,409
52.4: 2,284,343
2,284,436
69: 2,284,153
2,284,438
71: 2,284,410
74: 2,284,301
2,284,421
2,284,422
92: 2,283,943
2,284,214
2,284,480
22— 57.2: 2,284,503
23— 1: 2,284,584
232: 2,284,147
260: 2,284,435
24— 6: 2,284,029
19: 2,284,314
102: 2,284,274
123: 2,284,042
236: 2,284,197
25— 29: 2,284,332
30: 2,283,921
121: 2,283,968
131: 2,284,559
131.5: 2,284,149
26— 69: 2,284,182
29— 84: 2,284,373
148.2: 2,284,000
2,284,210
2,284,222
2,284,260
149.5: 2,283,918
181: 2,284,504
30— 16: 2,284,066
43: 2,284,038
102: 2,284,133
198: 2,284,196
257: 2,284,536
335: 2,284,128
31— 4: 2,283,904
33— 1: 2,284,558
126.7: 2,284,396

34— 56: 2,284,096
86: 2,284,165
35— 16: 2,284,458
25: 2,283,922
36— 34: 2,284,326
2,284,327
2,284,328
71: 2,283,917
2,284,164
37— 91: 2,284,573
126: 2,284,412
144: 2,284,215
153: 2,284,550
155: 2,284,463
186: 2,284,390
38— 66: 2,284,136
77: 2,284,411
40— 126: 2,284,032
130: 2,284,309
142: 2,283,908
156: 2,284,355
41— 26: 2,284,093
43— 31: 2,284,537
36: 2,284,034
43: 2,284,183
46: 2,283,960
52: 2,284,564
86: 2,284,543
44— 9: 2,284,080
2,284,267
45— 2: 2,284,531
28: 2,283,988
131: 2,283,997
46— 86: 2,284,371
47— 58: 2,284,002
60: Pl.Pt.519
61: Pl.Pt.518
Pl.Pt.521
Pl.Pt.522
Pl.Pt.523
Pl.Pt.524
62: Pl.Pt.520
49— 7: 2,284,089
10: 2,284,508
17: 2,284,348
54: 2,284,398
77: 2,284,420
51— 34: 2,284,134
2,284,325
55: 2,284,056
59: 2,284,556
72: 2,284,606
92: 2,284,073
95: 2,284,050
110: 2,284,557
205: 2,284,535
236: 2,284,257
53— 3: 2,283,957
2,283,967
2,284,067
2,284,359
55— 84: 2,284,408
57— 32: 2,284,321
58— 76: 2,284,418
90: 2,284,594
60— 29: 2,284,334
52: 2,284,228
54: 2,284,362
54.6: 2,283,961
62— 89: 2,284,188
2,284,293
114: 2,283,923
140: 2,283,928
175.5: 2,284,112
64— 17: 2,284,198
23: 2,284,199
27: 2,284,349
66— 69: 2,284,167

66— 135: 2,283,995
194: 2,284,454
67— 7.1: 2,283,909
29: 2,284,486
68— 6: 2,284,313
58: 2,284,243
240: 2,284,572
256: 2,284,453
269: 2,284,285
70— 208: 2,284,192
456: 2,284,507
73— 51: 2,283,954
2,283,955
110: 2,284,588
151: 2,283,919
198: 2,284,008
213: 2,284,013
215: 2,283,906
272: 2,284,511
367: 2,284,048
74— 55: 2,283,979
90: 2,284,179
117: 2,284,595
189.5: 2,284,123
217: 2,284,441
251: 2,284,565
291: 2,284,047
333: 2,284,233
335: 2,284,246
473: 2,284,224
2,284,251
477: 2,284,191
501: 2,284,517
604: 2,284,515
75— 127: 2,283,902
77— 1: 2,284,336
72: 2,284,522
80— 26: 2,284,575
81— 9.1: 2,283,947
34: 2,284,223
39: 2,284,449
102: 2,283,984
82— 36: 2,284,394
83— 9: 2,284,548
84— 390: 2,284,016
85— 5: 2,284,018
86— 40: 2,284,259
88— 2.7: 2,284,049
14: 2,284,150
47: 2,284,262
2,284,524
57: 2,284,567
89— 34: 2,284,488
41: 2,284,611
90— 12: 2,284,483
13.7: 2,284,319
91— 12: 2,284,366
45: 2,283,969
47: 2,284,491
55: 2,284,553
92— 44: 2,284,098
93— 3: 2,284,604
55.1: 2,284,492
95— 34: 2,284,487
42: 2,284,562
88: 2,284,236
98— 38: 2,284,161
99— 69: 2,284,033
80: 2,284,239
193: 2,284,270
100— 25: 2,284,044
31: 2,284,119
101— 18: 2,284,076
219: 2,284,094
376: 2,284,095
103— 4: 2,284,505
162: 2,284,109
2,284,110

103— 162: 2,284,111
2,284,146
2,284,169
262: 2,283,907
104— 92: 2,284,249
109: 2,284,240
105— 61: 2,284,442
197: 2,283,971
106— 14: 2,283,931
2,284,241
20: 2,284,276
2,284,277
2,284,279
2,283,955
37: 2,284,091
75: 2,284,400
270: 2,284,065
281: 2,283,937
293: 2,284,585
107— 47: 2,284,455
108— 30: 2,284,440
109— 17: 2,284,261
110— 1: 2,284,368
29: 2,284,506
111— 18: 2,284,172
112— 18: 2,284,471
62: 2,284,514
256: 2,284,474
113— 38: 2,284,303
2,284,569
53: 2,284,377
114— 238: 2,284,331
115— 34: 2,284,589
116— 114: 2,284,218
173: 2,284,200
117— 62: 2,284,590
121— 37: 2,284,358
41: 2,284,298
60: 2,284,139
122— 235: 2,284,601
451.1: 2,284,130
123— 8: 2,284,184
11: 2,284,186
136: 2,284,166
148: 2,284,068
173: 2,283,959
178.5: 2,284,121
179: 2,284,338
185: 2,284,230
191: 2,284,608
124— 19: 2,284,512
125— 33: 2,284,030
126— 93: 2,284,138
107: 2,284,464
110: 2,283,986
2,284,542
272: 2,284,269
127— 37: 2,284,500
55: 2,284,122
128— 1: Re.22,101
46: 2,284,445
52: 2,284,061
62: 2,284,200
99: 2,284,205
105: 2,284,143
115: 2,284,544
143: 2,284,053
2,284,054
172.1: 2,284,235
192: 2,283,952
218: 2,283,915
129— 16.7: 2,284,586
20: 2,284,031
130— 27: 2,284,433
131— 21: 2,284,117
2,284,472
190: 2,284,176
132— 76.2: 2,284,168
84: 2,284,217

136— 4: 2,284,547
171: 2,284,451
137— 53: 2,284,457
69: 2,284,354
103: 2,283,910
104: 2,283,945
111: 2,283,973
122: 2,284,007
147: 2,284,330
165: 2,284,560
140— 55: 2,283,933
141— 9: 2,284,025
2,284,026
2,284,456
143— 68: 2,283,958
148— 9: 2,284,351
149— 17: 2,284,001
150— 10: 2,284,212
35: 2,284,374
151— 14: 2,284,081
153— 1: 2,283,962
48: 2,284,346
154— 1: 2,284,563
2: 2,284,254
19: 2,284,265
28: 2,284,439
155— 61: 2,284,571
121: 2,284,352
127: 2,284,498
171: 2,284,129
175: 2,284,058
179: 2,284,108
156— 22: 2,284,310
39: 2,284,052
158— 4: 2,284,037
90: 2,284,568
91: 2,284,157
161— 7: 2,284,158
164— 0.8: 2,284,211
167— 28: 2,284,523
65: 2,284,566
170— 68: 2,284,521
159: 2,283,956
163: 2,284,154
2,284,516
171— 34: 2,284,045
2,284,426
95: 2,283,951
2,284,219
2,284,379
2,284,423
2,284,476
119: 2,283,925
2,284,323
313: 2,284,546
326: 2,284,384
327: 2,284,088
329: 2,284,159
172— 274: 2,284,469
278: 2,284,395
173— 328: 2,283,934
2,284,376
2,284,462
334.1: 2,284,097
343: 2,284,231
350: 2,284,367
361: 2,284,392
174— 83: 2,284,370
88: 2,284,163
153: 2,284,530
175— 30: 2,284,478
294: 2,284,114
341: 2,284,011
358: 2,284,406
363: 2,284,389
372: 2,283,903
176— 2: 2,284,036
8: 2,284,481

176— 122: 2,284,046
2,284,084
2,284,263
124: 2,284,407
126: 2,284,363
132: 2,284,288
177— 7: 2,284,177
311: 2,284,185
2,284,289
324: 2,284,040
178— 4: 2,284,104
6.7: 2,284,027
6.8: 2,284,417
7.3: 2,284,085
14: 2,283,944
44: Re.22,103
2,283,924
2,283,926
2,284,529
2,284,555
2,284,612
53.1: 2,284,322
70: 2,284,296
115: 2,284,024
179— 6: 2,284,173
2,284,306
27: 2,284,329
107: 2,284,063
111: 2,284,039
171: 2,284,064
2,284,083
2,284,102
2,284,181
171.5: 2,284,401
2,284,402
180— 5: 2,284,075
14.5: 2,284,145
77: 2,284,344
182— 31: 2,284,416
183— 4: 2,283,990
7: 2,283,964
102: 2,284,513
121: 2,284,317
187— 2: 2,284,360
29: 2,284,113
188— 4: 2,283,948
18: 2,284,357
31: 2,284,220
59: 2,284,484
78: 2,284,193
153: 2,284,253
2,284,605
202: 2,283,966
250: 2,284,455
189— 28: 2,283,987
34: 2,284,229
46: 2,284,012
2,284,074
69: 2,284,539
192— .02: 2,284,353
3: 2,284,189
2,284,380
7: 2,284,201
2,284,202
2,284,203
47: 2,283,965
68: 2,284,278
193— 35: 2,284,490
194— 45: 2,284,221
196— 8: 2,284,592
10: 2,284,554
13: 2,284,583
18: 2,284,607
29: 2,284,271
2,284,272
2,284,273
52: 2,284,603
55: 2,284,581
58: 2,284,493

196— 96: 2,284,204
197— 40: 2,284,324
73: 2,284,017
198— 22: 2,284,286
200— 17: 2,284,206
47: 2,284,404
50: 2,284,613
54: 2,284,125
2,284,292
67: 2,284,437
87: 2,284,597
113: 2,283,972
2,284,103
2,284,383
123: 2,284,291
125: 2,284,599
2,284,600
138: 2,284,132
150: 2,284,347
201— 64: 2,284,078
202— 56: 2,284,124
67: 2,283,911
206— 1.5: 2,284,294
38: 2,284,174
44: 2,284,527
48.5: 2,284,171
56: 2,284,162
57: 2,284,071
84: 2,284,551
209— 200: 2,284,105
464: 2,283,992
210— 60: 2,284,413
62: 2,284,593
131: 2,284,447
134: 2,283,989
161: 2,284,342
211— 24: 2,284,299
35: 2,284,552
65: 2,284,452
90: 2,284,393
213— 8: 2,284,268
214— 10.5: 2,283,930
2,284,616
44: 2,284,226

214— 64: 2,284,140
83: 2,284,116
2,284,187
113: 2,284,237
216— 54: 2,284,019
55: 2,284,311
219— 4: 2,284,403
6: 2,283,940
2,283,941
2,283,942
2,284,315
8: 2,283,916
2,283,996
19: 2,284,450
39: 2,284,414
220— 67: 2,284,466
86: 2,284,107
2,284,350
221— 47.3: 2,284,533
60: 2,284,020
67: 2,284,252
78: 2,284,602
80: 2,284,316
223— 57: 2,284,232
224— 4: 2,284,582
5: 2,284,099
29.5: 2,284,356
45: 2,284,290
225— 3: 2,284,135
226— 18: 2,284,160
104: 2,284,041
227— 27: 2,284,190
229— 34: 2,283,949
2,283,950
37: 2,284,283
43: 2,284,499
52: 2,284,385
86: 2,284,386
230— 114: 2,284,587
117: 2,284,141
234— 41.5: 2,284,598
235— 61: 2,283,999
103.5: 2,283,993
236— 34: 2,284,381

236— 63: 2,284,137
79: 2,284,561
84: 2,283,927
92: 2,284,496
240— 2.1: 2,283,904
7.1: 2,284,538
9: 2,284,194
78: 2,284,534
242— 13: 2,284,115
45: 2,283,912
96: 2,284,077
99: 2,284,375
117: 2,284,540
123: 2,284,426
244— 42: 2,284,519
60: 2,284,473
104: 2,284,148
246— 3: 2,284,015
33: 2,283,998
248— 56: 2,283,899
72: 2,284,302
289: 2,284,502
250— 2: 2,284,509
8: 2,284,266
9: 2,284,247
11: 2,283,935
2,284,475
15: 2,284,415
20: 2,284,131
2,284,444
27: 2,284,227
2,284,378
27.5: 2,284,151
2,284,341
2,284,495
33: 2,283,897
2,283,914
2,283,938
2,284,434
36: 2,284,101
2,284,337
2,284,372
2,284,405
2,284,545

250— 81: 2,284,055
83.6: 2,284,345
251— 113: 2,283,985
118: 2,284,051
252— 54: 2,284,258
117: 2,284,086
135: 2,284,248
311: 2,284,028
330: 2,284,106
253— 77: 2,283,901
148: 2,284,295
254— 5: 2,284,275
43: 2,283,929
186: 2,284,532
190: 2,284,120
255— 61: 2,284,580
76: 2,284,170
257— 3: Re.22,100
259— 1: 2,284,090
4: 2,284,255
106: 2,284,155
177: 2,284,250
260— 4: 2,284,610
18: 2,284,570
27: 2,284,100
36: 2,284,335
86: 2,284,142
2,284,280
2,284,281
94: 2,283,900
103: 2,284,156
231: 2,284,282
248: 2,284,079
269: 2,283,991
288: 2,284,461
290: 2,284,460
316: 2,284,062
397.4: 2,283,913
410: 2,284,127
431: 2,284,067
447: 2,284,126
501: 2,284,118
502: 2,284,477
541: 2,283,920

260— 541: 2,283,976
2,283,977
583: 2,284,525
600: 2,284,287
624: 2,284,369
648: 2,284,482
654: 2,284,479
663: 2,284,467
668: 2,284,468
754: 2,284,432
786: 2,284,576
788: 2,284,577
2,284,578
2,284,579
804: 2,284,284
261— 30: 2,284,195
262— 2: 2,284,035
2,284,459
8: 2,284,178
2,284,388
263— 14: 2,283,981
48: 2,284,057
265— 1.6: 2,284,364
44: 2,284,060
53: 2,284,526
266— 5: 2,283,982
2,284,014
23: 2,283,932
2,284,005
2,284,574
270— 20: 2,284,318
271— 12: 2,284,430
20: 2,284,429
273— 42: 2,284,208
102: 2,284,510
136: 2,284,242
148: 2,284,518
152: 2,284,256
274— 9: 2,284,043
10: 2,284,305
275— 2: 2,284,175
277— 1: 2,284,059
20: 2,284,615
280— 80: 2,284,245

280— 81: Re.22,102
261: 2,284,333
281— 16: 2,283,980
29: 2,284,312
36: 2,284,009
44: 2,284,501
283— 7: 2,283,898
284— 14: 2,283,970
285— 122: 2,284,216
157: 2,284,234
161: 2,284,365
175: 2,283,974
2,283,975
286— 9: 2,284,465
26: 2,284,424
287— 1: 2,284,070
53: 2,283,905
119: 2,284,180
290— 38: 2,284,431
292— 20: 2,284,004
106: 2,283,983
284: 2,284,096
294— 67: 2,284,238
104: 2,284,006
296— 26: 2,284,419
297— 16: 2,284,082
299— 88: 2,284,591
120: 2,284,264
153: 2,284,443
305— 10: 2,283,936
308— 88: 2,283,939
154: 2,283,963
187: 2,284,446
309— 4: 2,284,340
13: 2,284,152
311— 64: 2,284,003
95: 2,284,304
312— 34: 2,284,361
71: 2,284,225
106: 2,284,092
156: 2,284,339

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,283,902: 75— 127
2,283,929: 254— 43
2,283,937: 106— 281
2,283,981: 263— 14
2,283,988: 45— 28
2,283,991: 260— 269
2,284,022: 14— 72
2,284,023: 252— 311

2,284,054: 128— 143
2,284,092: 312— 106
2,284,095: 101— 376
2,284,103: 200— 113
2,284,128: 30— 335
2,284,133: 30— 102
2,284,135: 225— 3
2,284,147: 23— 232

2,284,156: 260— 103
2,284,168: 132— 76.2
2,284,172: 111— 18
2,284,221: 194— 45
2,284,222: 29—148.2
2,284,235: 128—172.1
2,284,270: 99— 193
2,284,283: 229— 37

2,284,316: 221— 80
2,284,343: 20— 52.4
2,284,400: 106— 75
2,284,428: 171— 34
2,284,432: 260— 754
2,284,436: 20— 52.4
2,284,446: 308— 187
2,284,464: 126— 107

2,284,466: 220— 67
2,284,470: 5— 66
2,284,473: 244— 60
2,284,482: 260— 648
2,284,499: 229— 43
2,284,503: 22— 57.2
2,284,506: 110— 29
2,284,528: 15— 177

2,284,536: 30— 257
2,284,579: 260— 788
2,284,584: 23— 1
2,284,585: 106— 293
2,284,590: 117— 62

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CONTENTS

	Page
ISSUE OF MAY 5, 1942	1
NOTICES OF CANCELLATION	1
NOTICES	1
ERRATUM	1
APPLICATIONS UNDER EXAMINATION	2
DECISIONS OF THE U. S. COURTS—	
Stonite Products Company v. The Melvin Lloyd Company et al.	3
Canadian-American Pharmaceutical Company v. Coe, Commissioner of Patents	4
In re Colin	5
In re Taub et al.	7
PATENT SUITS	9
ADJUDICATED PATENTS	9
ADVERSE DECISIONS IN INTERFERENCE	10
DISCLAIMERS	10
TRADE-MARKS PUBLISHED (112 APPLICATIONS)	11
TRADE-MARK REGISTRATIONS GRANTED	24
TRADE-MARK REGISTRATIONS RENEWED	31
REISSUES	35
PLANT PATENTS	36
PATENTS GRANTED	37
DESIGNS	218

May 5, 1942

Trade-marks	160	No. 394,872 to No.	395,031,	inclusive.
T. M. Renewals	59			
Reissue	6	No. 22,087 to No.	22,092,	inclusive.
Plant Patents	2	No. 513 to No.	514,	inclusive.
Patents	762	No. 2,281,541 to No.	2,282,302,	inclusive.
Designs	98	No. 132,244 to No.	132,341,	inclusive.
Total	1,087			

Notices of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., Apr. 6, 1942.*

The Interstate Wine Company, its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of California Wine Company, Incorporated, 444 West Grand Avenue, Chicago, Ill., to effect the cancellation of registration No. 225,472, issued March 22, 1927, to The Interstate Wine Company, 36 South Calvert Street, Baltimore, Md., and a notice of such proceeding sent by registered mail to said The Interstate Wine Company at said address having been returned by the post office as undeliverable, notice is hereby given that unless said The Interstate Wine Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., Apr. 7, 1942.*

The heirs, assigns or legal representatives of Theophilus O. Williams, deceased, take notice:

A cancellation proceeding has been instituted by this Office upon the application of The Odell Company, Newark, N. J., to effect the cancellation of the trade-mark registration of Theophilus O. Williams, 11–13 N. Sycamore St., Petersburg, Va., No. 190,302, dated October 14, 1924, and the receipt for the notice of such proceeding sent by registered mail to said Theophilus O. Williams at the said address having been returned bearing the notation "Deceased" endorsed thereon, notice is hereby given that unless the heirs, assigns or legal representatives of said Theophilus O. Williams shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

HENRY VAN ARSDALE,
Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., Apr. 17, 1942.*

Tetsujiro Kageyama, his assigns or legal representatives, take notice:

An application for cancellation having been filed in this Office by Continental Coffee Company, Inc., 375 W. Ontario St., Chicago, Ill., to effect the cancellation of trade-mark registration of Tetsujiro Kageyama, 546 Sansome St., San Francisco, Calif., No. 211,867, dated April 20, 1926, and the notice of such proceeding sent by registered mail to the said Tetsujiro Kageyama at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Tetsujiro Kageyama, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Notices

In accordance with the provisions of rule 17 of the Rules of Practice in the United States Patent Office, an examination for the registration of attorneys and agents to practice before the United States Patent Office will be held on Wednesday, June 10, 1942.

This examination may be taken in any of the large cities of the country and will be given under the direction of the Civil Service Commission. Applications to take the examination should be made to the Commissioner of Patents and such applications must be received in the Patent Office not later than May 28, 1942.

Application blanks may be obtained from the Chief Clerk of the Patent Office.

HENRY VAN ARSDALE,
Chairman of the Committee on Enrollment and Disbarment.

The Patent Office Defense Committee, established July 9, 1940, by Commissioner's Order No. 3517 for the purpose of performing the functions of the Commissioner of Patents under the provisions of Public No. 700, 76th Congress, shall hereafter be designated as the "Patent Office War Committee."

CONWAY P. COE,
Commissioner.

Erratum

In volume 536 of the OFFICIAL GAZETTE, page 936, the first three lines of the final paragraph of the first column are incorrect and should read: "*The Examiner ruled that the opposer had failed to give proper notice under Rule 154(e) of intention to use this registration or the application therefor.*"

Condition of Applications Under Examination at Close of Business April 18, 1942

(Total number of applications awaiting action, excluding Trade-Mark Division, 46,867; Trade-Mark Division, 1,168. Oldest new case, June 26, 1941; oldest amended, April 28, 1941.)
(The dates given are 1941 except where † indicates 1942)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Aug. 15	Aug. 13	729
6708	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Nov. 5	Oct. 2	682
4068	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Dec. 9	Dec. 4	618
7083	4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating, Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	Nov. 21	Nov. 18	499
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	Nov. 6	Nov. 13	409
4606 C	6. LEWERS, A. M., Carbon Chemistry (part)	Sept. 25	Sept. 10	1142
5726	7. JARBOE, C. G., Optics; Photography	Sept. 20	Sept. 13	1086
2665	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	Sept. 27	Oct. 27	753
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Oct. 10	Oct. 6	648
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	----------	----------	----------
5087 B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Dec. 29	Dec. 18	376
7701	12. SPINTMAN, SAMUEL (Act.), Machine Elements; Mechanical Starters; Stop Mechanisms	Oct. 30	Oct. 27	559
6096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Aug. 9	Aug. 14	626
5097	14. FREEHOF, H. B. (Act.), Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	Dec. 13	Dec. 8	618
4897	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Sept. 27	Sept. 20	1150
5716	16. SPENCER, C. J., Telegraphy; Telephony	Oct. 20	Oct. 20	555
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	July 21	July 23	989
4612	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Oct. 11	Oct. 15	575
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Sept. 17	Sept. 30	601
6605	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	Oct. 13	Oct. 24	395
7723	21. THOMPSON, T. J., Textiles; Cloth Finishing	Nov. 21	Nov. 19	388
5600	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	June 26	June 27	1820
7624	23. BUTTNER, W. J., Registers (part)	July 22	July 8	238
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Oct. 11	Oct. 2	832
5709	25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Oct. 16	Oct. 15	499
3998	26. YOUNG, R. R., Electricity, Generation; Motive Power	Nov. 28	Nov. 8	469
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment	Oct. 18	Aug. 16	576
4626	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Elements; Cylinders and Pistons	Oct. 27	Sept. 14	376
5082	29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	Sept. 8	Sept. 13	660
4063	30. McCANN, L. P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	†Jan. 7	†Jan. 7	413
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	Oct. 25	Oct. 25	1487
4066	32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Oct. 21	Oct. 20	895
6096	33. KAUFFMAN, H. E. (Act.), Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads.	Oct. 2	Oct. 1	850
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Surface Track; Track Sanders; Draft Appliances; Signals and Indicators.	Aug. 1	Nov. 24	423
2676	35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Portable Receptacles	Aug. 2	July 30	977
7902	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Oct. 17	Oct. 20	662
5606 B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Dec. 24	Nov. 26	562
3084	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stoneworking; Wells; Plastic Compositions.	Sept. 15	Sept. 15	739
4578	39. WHITNEY, F. L., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Nov. 22	Nov. 24	510
7880	40. DRUMMOND, E. J., Metallic, Wood, Paper, and Special Receptacles	Sept. 17	Sept. 17	1544
7612	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	Oct. 31	Nov. 3	547
5662	42. CUTTING, H. C., Electric Signaling	Nov. 7	Nov. 4	460
4606 B	43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Sept. 12	Sept. 12	821
4087 B	44. HARVEY, L. P., Refrigeration	Oct. 22	Oct. 14	344
7093	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Aug. 1	Aug. 5	699
4613	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Sept. 6	Sept. 6	797
6082	47. KANOF, W. J., Clutches; Brakes	July 28	July 22	1003
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Sept. 3	Sept. 5	839
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Oct. 2	Oct. 2	685
4701	50. LEVIN, S., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	Sept. 18	Sept. 18	1564
5628	51. BACKUS, C. D., Radiant Energy (part)	Dec. 17	Dec. 26	415
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	†Jan. 1	†Jan. 1	376
6607	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Aug. 23	Apr. 28	472
5662	54. STRACHAN, C. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	Dec. 9	Dec. 10	468
6623	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	Nov. 27	Dec. 9	200
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Aug. 20	Aug. 21	1346
6613	57. NICOLSON, G. D., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	Nov. 21	Dec. 16	253
5605	58. DOWELL, E. F., Abreading; Bottles and Jars	Dec. 6	Dec. 18	408
4709	59. SHEPPARD, P. W., Chemistry; Fertilisers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	Aug. 11	Aug. 2	1346
5696	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Nov. 8	Nov. 8	308
6724	61. YUNGKWAI, B., Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	Sept. 30	Sept. 29	762
5621	62. PUOH, E. C., Games; Geometrical Instruments	Sept. 25	Aug. 25	678
4626	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	Aug. 5	Aug. 5	1360
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats and Glue; Liquid Coating Compositions; Fuel.	Oct. 7	Oct. 1	1646
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	Oct. 31	Nov. 21	399
2099 B	Trade Marks: F. A. RICHMOND	†Feb. 9	†Mar. 9	1148
2605	Designs: H. H. KALUPY	†Mar. 12	†Mar. 23	591

DECISIONS IN PATENT AND TRADE-MARK CASES

Supreme Court of the United States

STONITE PRODUCTS COMPANY
v.
THE MELVIN LLOYD COMPANY ET AL.

No. 321. Decided March 9, 1942

PATENT INFRINGEMENT SUITS—VENUE.

Sec. 48 of the Judicial Code (28 U. S. C. § 109), giving jurisdiction of suits for patent infringement to the United States district courts in the district of which the defendant is an inhabitant or in any district in which the defendant shall have committed acts of infringement and have a regular and established place of business, is the sole and exclusive provision governing and controlling the venue of patent infringement proceedings, and that section is not supplemented by sec. 52 of the Judicial Code (28 U. S. C. § 113), which permits suits, not of a local nature, against two or more defendants residing in different judicial districts within the same state to be brought in either district.

ON WRIT of certiorari to the United States Circuit Court of Appeals for the Third Circuit. Reversed.

Mr. A. D. Caesar and *Mr. Charles W. Rivise* (*Mr. David S. Gifford* with them on the brief) for Stonite Products Company.

Mr. *Isaac J. Silin* for Melvin Lloyd Company et al.

Mr. Justice MURPHY delivered the opinion of the Court.

The only question presented for our determination is whether section 48 of the Judicial Code (28 U. S. C. § 109) is the sole provision governing the venue of patent infringement litigation or whether that section is supplemented by section 52 of the Judicial Code (28 U. S. C. § 113). Section 48 gives jurisdiction of suits for patent infringement to the United States district courts in the district of which the defendant is an inhabitant or in any district in which the defendant shall have committed acts of infringement and have a regular and established place of business. Section 52 permits suits, not of a local nature, against two or more defendants residing in different judicial districts within the same State to be brought in either district.[1]

Petitioner, Stonite Products Company, an inhabitant of the Eastern District of Pennsylvania without a regular and established place of business in the Western District of that State, was sued jointly with Lowe Supply Company, an inhabitant of the Western District, in the Western District for infringement of Patent No. 1,777,759 for a boiler stand. Petitioner was served with process in the Eastern District, entered a special appearance in the action in the Western District, and moved to dismiss or quash the return of service because venue was laid in the wrong district. The district court granted the motion and dismissed the cause as to petitioner.[2] 36 F. Supp. 29. The Circuit Court of Appeals reversed. 119 F. 2d 883. We granted certiorari because of an asserted conflict with *Motoshaver, Inc.*, v. *Schick Dry Shaver, Inc.*, 100 F. 2d 236 (C. C. A. 9).

We hold that section 48 is the exclusive provision controlling venue in patent infringement proceedings.

Section 48 is derived from the act of March 3, 1897, c. 395, 29 Stat. 695, and its scope can best be determined from an examination of the reasons for its enactment.

Section 11 of the Judiciary Act of September 24, 1789, c. 20, 1 Stat. 79, permitted civil suits to be brought in the federal courts against a person only in the district of which he was an inhabitant or in which he was found at the time of serving the writ. That section applied to suits for patent infringement. *Chaffee* v. *Hayward*, 20 How. 208, 216; *Allen* v. *Blunt*, 1 Blatchf. 408 Fed. Cas. No. 215. The act of March 3, 1875, c. 137, 18 Stat. 470, retained the provision allowing suit wherever the defendant could be found. The abuses engendered by this extensive venue prompted the act of March 3, 1887, c. 373, 24 Stat. 552, which, as amended by the act of August 13, 1888, c. 866, 25 Stat. 433, permitted civil suits to be instituted only in the district of which the defendant was an inhabitant, except that in diversity jurisdiction cases suit could be started in the district of the plaintiff's or the defendant's residence. The substance of those provisions was reenacted as section 51 of the Judicial Code (28 U. S. C. § 112).

After the holding of *In re Hohorst*, 150 U. S. 653, that the act of 1887 as amended did not apply to a suit against an alien or a foreign corporation "especially in a suit for the infringement of a patent right", the lower federal courts became uncertain as to the applicability of the act of 1887 to patent infringement proceedings.[3] In explanation of Ho-

[1] Section 48 provides:
"In suits brought for the infringement of letters patent the district courts of the United States shall have jurisdiction, in law or in equity, in the district of which the defendant is an inhabitant, or in any district in which the defendant, whether a person, partnership, or corporation, shall have committed acts of infringement and have a regular and established place of business. If such a suit is brought in a district of which the defendant is not an inhabitant, but in which such defendant has a regular and established place of business, service of process, summons, or subpoena upon the defendant may be made by service upon the agent or agents engaged in conducting such business in the district in which suit is brought."
Section 52 provides:
"When a State contains more than one district, every suit not of a local nature, in the district court thereof, against a single defendant, inhabitant of such State, must be brought in the district where he resides; but if there are two or more defendants, residing in different districts of the State, it may be brought in either district, and a duplicate writ may be issued against the defendants, directed to the marshal of any other district in which any defendant resides. The clerk issuing the duplicate writ shall indorse thereon that it is a true copy of a writ sued out of the court of the proper district; and such original and duplicate writs, when executed and returned into the office from which they issue, shall constitute and be proceeded on as one suit; and upon any judgment or decree rendered therein, execution may be issued, directed to the marshal of any district in the same State."

[2] Lowe Supply Company defaulted and the suit proceeded to judgment against it.

[3] Prior to the Hohorst case the lower federal courts seem to have been unanimous in assuming that the act of 1887 as amended governed patent infringement litigation. See *Reinstadler* v. *Reeves*, 33 F. 308; *Miller-Magee Co.* v. *Carpenter*, 34 F. 433; *Halstead* v. *Manning, Bowman & Co.*, 34 F. 565; *Gormully & Jeffrey Manuf'g Co.* v. *Pope Manuf'g Co.*, 34 F. 818; *Preston* v. *Fire-Extinguisher Manuf'g Co.*,

horst's case it was said in *In re Keasbey & Mattison Co.*, 160 U. S. 221, 230, that

"It was a suit for infringement of a patent right, exclusive jurisdiction of which had been granted to the circuit courts of the United States . . .; and was therefore not affected by general provisions regulating the jurisdiction of the courts of the United States, concurrent with that of the several States."

Thereafter the lower federal courts for the most part took the position that the act of 1887 as amended did not apply to suits for patent infringement, and that infringers could be sued wherever they could be found.[4]

The act of 1897 was adopted to define the exact jurisdiction of the federal courts in actions to enforce patent rights and thus eliminate the uncertainty produced by the conflicting decisions on the applicability of the act of 1887 as amended to such litigation.[5] That purpose indicates that Congress did not intend the act of 1897 to dovetail with the general provisions relating to the venue of civil suits, but rather that it alone should control venue in patent infringement proceedings.

Section 52 is derived from R. S. § 740, which in turn stems from the act of May 4, 1858, c. 27, 11 Stat. 272, a general act intended to do away with the insertion of special provisions preserving state-wide venue in acts dividing a State into two or more judicial districts,[6] and the act of February 24, 1863, c. 54, § 9, 12 Stat. 662. Respondents insist that section 52 applies to patent infringement suits because it antedates section 48, excludes from its purview only suits of a local nature, and is consistent with and complementary to section 48 since it deals with the problem of venue in the geographical sense rather than in terms of specified classes of litigation. We cannot agree.

Even assuming that R. S. § 740 covered patent litigation prior to the act of 1897, we do not think that its application survived that act, which was intended to define the exact limits of venue in patent infringement suits.[7] Furthermore, the act of 1897 was a restrictive measure, limiting a prior, broader venue. *General Elec. Co.* v. *Marvel Co.*, 287 U. S. 430, 434–435; *Bowers* v. *Atlantic, G. & P. Co.*, 104 F. 887; *Cheatham Electric Switching D. Co.* v. *Transit D. Co.*, 191 F. 727.[8] Thus there is little reason to assume that Congress intended to authorize suits in districts other than those mentioned in that act.

The reenactment of the act of 1897 as section 48, and of R. S. § 740 as section 52 of the Judicial Code by the act of March 3, 1911, c. 231, 36 Stat. 1100–1101, is not indicative of any Congressional understanding that the two sections are complementary. Quite the contrary, for section 52 appears in the Judicial Code as an exception to section 51, the general venue provision derived from the act of 1887, as amended. See *Camp* v. *Gress*, 250 U. S. 308, 315. Section 51 is, of course, not applicable to patent infringement proceedings. *General Elec. Co.* v. *Marvel Co.*, supra.[9] Since section 48 is wholly independent of section 51, there is an element of incongruity in attempting to supplement section 48 by resort to section 52, an exception to the provisions of section 51. Cf. *Connecticut Fire Ins. Co.* v. *Lake Transfer Corp.*, 74 F. 2d 258.

Reversed.

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36 F. 721; *Adriance, Platt & Co.* v. *McCormick Harvesting Mach. Co.*, 55 F. 287; *National Typewriter Co.* v. *Pope Manuf'g Co.*, 56 F. 849; *Bicycle Stepladder Co.* v. *Gordon*, 57 F. 529; *Cramer* v. *Singer Manuf'g Co.*, 59 F. 74.

After the Hohorst decision conflict developed. *Union Switch & Signal Co.* v. *Hall Signal Co.*, 85 F. 625, relying on *Galveston &c. Railway* v. *Gonzales*, 151 U. S. 496, interpreted *In re Hohorst* as limited to infringement suits against aliens or foreign corporations. Accord, *Donnelly* v. *United States Cordage Co.*, 66 F. 613. Contra, *Smith* v. *Sargent Manuf'g Co.*, 67 F. 801.

[4] *National Button Works* v. *Wede*, 72 F. 298; *Noonan* v. *Chester Park Athletic Club Co.*, 75 F. 334; *Earl* v. *Southern Pac. Co.*, 75 F. 609; *Westinghouse Air-Brake Co.* v. *Great Northern Ry. Co.*, 88 F. 258, Contra, *Gorham Manuf'g Co.* v. *Watson*, 74 F. 418.

[5] See H. Rpt. No. 2905, 54th Cong., 2d Sess.

The remarks of Mr. Mitchell who reported the bill for the House Committee on Patents are significant (29 Cong. Rec. 1900–1901):

"Mr. Speaker, the necessity for this law grows out of the acts of 1887 and 1888 which amended the judiciary act. Conflicting decisions have even arisen in the different districts in the same States as to the construction of these acts of 1887 and 1888, and there is great uncertainty throughout the country as to whether or not the act of 1887 as amended by the act of 1888 applied to patent cases at all.

"The bill is intended to remove this uncertainty and to define the exact jurisdiction of the circuit courts in these matters.

"The committee have been extremely careful in the investigation of the matter before reporting the bill.

"As the bill was referred to me, I wrote to a great many patent lawyers in different parts of the country, in order to get their views and objections, if any, and I find that they are all unanimously in favor of the bill as it is now reported, and state that it would tend not only to define the jurisdiction of the circuit courts not now defined, but also limit that jurisdiction and so clearly define it that in the future there will be no question with regard to the application of the acts of 1887 and 1888.

* * * * * * *

". . . The trouble has arisen in this matter that under the act of 1888 some of the courts were uncertain whether or not the law did or did not apply to patent cases, and therefore this special bill relating to patents solely has been brought up because of the indefiniteness and uncertainty arising from different constructions of the act of 1888 as applied to patent cases."

[6] See the remarks of Senator Pugh who reported the bill for the Senate Judiciary Committee. 36 Cong. Globe 936, 35th Cong., 1st Sess.

[7] As a matter of fact there was some uncertainty as to whether R. S. § 740 survived the general venue provisions of the acts of 1875 and 1887. See *Greeley* v. *Lowe*, 155 U. S. 58, 72; *Petri* v. *Creelman Lumber Co.*, 199 U. S. 487, 497; *Camp* v. *Gress*, 250 U. S. 308, 315. It was held that it did in *East Tennessee, V. & G. R. Co.* v. *Atlanta & F. R. Co.*, 49 F. 608; *Goddard* v. *Mattler*, 80 F. 422; and *Dresher* v. *United States Pipe Line Co.*, 185 F. 959. But compare *New Jersey Steel & Iron Co.* v. *Chormann*, 105 F. 532, and *Seybert* v. *Shamokin & Mt. C. Electric Ry. Co.*, 110 F. 810.

[8] *Zell* v. *Erie Bronze Co.*, 273 F. 833, is to the contrary but apparently overlooks the trend of the lower federal courts after *In re Keasby & Mattison*, 160 U. S. 221, was decided. See note 4, ante.

[9] This is apparent from the legislative history of the act of 1897 from which section 48 is derived. See note 5, ante.

Section 51 is likewise inapplicable to suits for copyright infringement. *Lumiere* v. *Wilder, Inc.*, 261 U. S. 174.

U. S. Court of Appeals for the District of Columbia

CANADIAN-AMERICAN PHARMACEUTICAL COMPANY
v.
COE, COMMISSIONER OF PATENTS

No. 7,893. Decided March 30, 1942

[— F.(2d) —]

PATENTABILITY—MEDICINE TO REDUCE PAIN OF CANCER.

An invention relating to a medicine for reducing the pain due to cancer and to processes for its manufacture *Held* patentable, the finding of the district court that the invention is not sufficiently reliable, useful and important to warrant the grant of a patent being incorrect.

APPEAL from the District Court of the United States for the District of Columbia. Reversed.

Messrs. Arthur G. Connolly and *James P. Burns* for Canadian-American Pharmaceutical Company.

Mr. W. W. Cochran (*Mr. H. S. Mackey* of counsel) for the Commissioner of Patents.

Before STEPHENS, EDGERTON and RUTLEDGE, Associate Justices

EDGERTON, *A. J.*:

This is a suit[1] to obtain a patent on Ensol, a medicine for reducing the pain of cancer, and on processes for its manufacture. The district court dismissed the complaint on the ground that the disclosures lacked utility.[2]

There was testimony to the following effect. Dr. Hendry C. Connell, the physician who originated Ensol, has supervised its use in 800 to 1000 painful cancer cases. In over 90 per cent of these cases, pain was reduced; less sedative was required. Pain was reduced in 279 of 289 painful cancer cases which were studied by his father, Dr. James C. Connell, a former dean of the Medical Faculty of Queen's University. In many of these cases relief was immediate and complete. Another physician testified that he had treated eighteen cancer patients with Ensol; pain was "definitely a symptom" in fourteen, and was definitely reduced by Ensol in twelve. Over one thousand physicians have administered Ensol in cancer cases. Their "almost unanimous opinion" is said to be that it alleviated pain. Two independent physicians investigated Ensol for the Ontario government. They testified that it reduces the pain of cancer in the very great majority of cases. The Ontario government's Commission for the Investigation of Cancer Remedies reported that

"In the great majority of cases treated there appears to be relief of pain. . . . It seems clear from the evidence of case histories, physicians' reports and the examination of patients that Ensol . . . used according to directions, is harmless and that it produces no undesirable immediate or remote effects. Improvement is manifested by lessening of pain and tension."

Since January, 1940, the expenses of Ensol research, manufacture and distribution have been borne by the Ontario government.

Dr. James C. Connell conceded that Ensol often caused "transient pain." Otherwise, testimony to an absence of bad results was unanimous. The Commissioner relies on a series of experiments which indicate that Ensol does not check the growth of cancer tumors in mice and rabbits. We think this throws no substantial doubt on the proposition that it usually reduces the pain of cancer in man.

It may be that some medical scientists would discourage the use of Ensol pending further tests. It is not within our function to decide, and we do not assume to decide, whether its use should be encouraged or discouraged. But we do have to decide whether under the evidence in the record in this case it has been clearly shown to have utility within the meaning of the patent law. And the evidence seems to us to make it clear that Ensol does, in many cases, reduce the pain of cancer, and that it causes no serious harm. There is no finding, and no evidence, to the contrary. It follows that Ensol has an "important function" and "works."[3] In our opinion, the district court's finding that the invention is not sufficiently reliable, useful and important to warrant the grant of a patent is incorrect.

Reversed.

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[1] Under R. S. § 4915, 35 U. S. C. § 63.

[2] R. S. § 4893, 35 U. S. C. § 36.

[3] Cf. *Hildreth* v. *Mastoras*, 257 U. S. 27, 34; 293 O. G. 215.

U. S. Court of Customs and Patent Appeals

IN RE COLIN

No. 4,529. Decided December 29, 1941

[— F.(2d) —]

1. PATENTABILITY—STABILIZATION OF LUBRICANTS.

Claims of application relating to the stabilization of lubricants by the incorporation of alkoxy-substituted aryl amines and particularly p-anisidine *Held* unpatentable in view of a publication specifically disclosing p-anisidine for the same purpose, but reciting that it is harmful.

2. SAME—UTILITY.

"Appellant is not entitled to a patent on a composition or a process based upon its use merely because, by experimentation at certain temperatures and under certain conditions, he has found that the substance rejected by the prior art has utility, when the claims presented contain no definite percentage of inhibitors or any other limitations or elements which lend patentability."

APPEAL from the Patent Office. Affirmed.

GARRETT, P. J., concurring.

Mr. James M. Graves for Colin.

Mr. W. W. Cochran (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

BLAND, *J.*:

All of appellant's claims, 1 to 22, inclusive, in his application in the United States Patent Office for a patent relating to the stabilization of lubricants were rejected by the Primary Examiner, and upon appeal to the Board of Appeals the decision of the Examiner was affirmed. Appellant has here petitioned for a determination of the appeal and revision of the Board's decision.

Both article and process claims are in the application, but the process involved resides in the use of the article defined in the article claims.

The alleged invention relates in general to the stabilization of lubricants and more particularly to hydrocarbon mineral lubricating oils and consists in incorporating therein compounds effective to inhibit or retard deterioration in service. Petroleum hydrocarbon oils are susceptible to oxidation and other chemical action which tends to deteriorate the same when in service conditions, with the result that acid, gum or sludge formation or change in color and viscosity are encountered. The object of appellant's alleged invention has been accomplished by the incorporation of compounds which have a retarding effect upon the deterioration. A great number of compounds have been tried as is evidenced by statements in the instant application and the prior art cited. The incorporation of some of such compounds was found to be useful for the purpose intended, while that of others was either neutral or harmful.

Appellant uses alkoxy-substituted aryl amines and specifically emphasizes the use of p-phenetidine, di-anisidine, and p-anisidine.

The claims were rejected by the Examiner upon the reference Industrial & Engineering Chemistry, vol. 19, No. 11, November 1927 "Deterioration of Mineral Oils" by Mead et al., pages 1240 to 1245, inclusive.

Claim 1, being the broad claim calling for an alkoxy-substituted aryl amine generally, is illustrative of all the appealed claims and follows:

1. Mineral oil composition comprising a viscous hydrocarbon oil normally tending to deteriorate in service and having incorporated therewith deterioration inhibiting proportions of an alkoxy-substituted aryl amine.

Claim 20 calls for maintaining the oil at temperatures "of the order of 200° F. for a prolonged period in the presence of water and air," and claim 21 calls for the inclusion in the combination of a sufficient quantity of the particular amine in question "to reduce substantially the tendency of the oil to deteriorate under the conditions of the Funk machine test."

The prior art cited clearly discloses the use of an alkoxy-substituted aryl amine, namely p-anisidine, for the same purpose as that of applicant. Mead et al., however, list p-anisidine as not being useful as a deterrent for decomposition of hydrocarbon oil but suggest that under the conditions of the particular experiments made by them it accelerated the reaction. In making their tests they used commercial transformer oils, and, in all, 177 substances were tested. Of the 177 only 48 showed useful inhibiting action. They stated that the remainder have comparatively little effect or else accelerate the reaction, the majority being in the second category. A special list was prepared of the substances which give values above 60. Certain ones were listed between 60 and 75, between 75 and 100, between 100 and 150, and others were listed with a value as high as 500. P-anisidine was listed with 44 other substances in the group ranging in value between 100 and 150. The specific value for each of these substances was not definitely shown, i. e. it was not shown just where in the range between 100 and 150 the value for p-anisidine lay, but as we understand the reference a statement that it had a value between 100 and 150 means that it had a value more than 100 and therefore the results shown would be harmful.

The applicant argues here that a reference teaching that the use of p-anisidine is harmful rather than helpful should not be regarded as anticipatory of the claims presented in the application.

The Board of Appeals in referring to the reference said:

"According to the Mead et al. article on page 1245, the p-anisidine gave at least no better results than if it had not been used."

The Examiner on this phase of the case said:

It is thought clear that Mead et al. appreciated the possibilities of preventing the deterioration of hydrocarbon oils by adding .1% of p-anisidine thereto and that the resulting composition, which corresponds to that defined in the appealed claims, was tested under the conditions described. The fact that the tests indicated a lack of efficiency of the compound in question is not considered to destroy the pertinency of the reference since the authors cautioned the reader that under a different set of conditions a different result might be obtained.

Mead et al., after stating the results of their experiments and tests of many substances, said:

These results refer only to the definite stated conditions of experimentation, and their extension to other conditions is liable to lead to erroneous conclusions.

[1] Appellant took the old material of Mead et al., and by further experimentation, which we think was to some extent suggested by the latter, although the conditions differed from those used by Mead et al., discovered that the result instead of being harmful was, in fact, useful. Appellant argues that although the combination is old, it is new in the sense of the patent law and that the Mead et al. publication should not be regarded as a proper reference for the rejection of the claims since, as he contends, the publication contributed nothing to the art involved.

The Board of Appeals, in affirming the decision of the Examiner, said:

Applicant contends that having found the inhibitor in the mineral oil composition as effective, he should be allowed a patent over Mead et al. who show the composition but found the inhibitor ineffective under certain conditions. According to the Mead et al. article on page 1245, the p-anisidine gave at least no better results than if it had not been used.

The claims include a statement that the amine is incorporated in the oil in deterioration inhibiting proportions. In other words, applicant uses enough of the amine to inhibit deterioration, acid, sludge or emulsion formation.

As was stated in *In re Lewis*, 108 Fed. (2d), 248; 514 O. G., 560, the patentability of a product claim must be found in the product itself, not solely on the alleged function asserted for the product.

No definite percentage of inhibitor is stated in the claims which it must be in order to state a difference in kind rather than a difference in degree. *Minerals Separation* v. *Hyde*, 242 U. S. 261.

Applicant indicates that various amines vary in ineffectiveness relative to each other and to different oils. Mead et al. state the same, in effect, at the end of page 1245 and elsewhere on page 1240 they state that oxidation at 100° C. is slight. The tests on the compositions indicated on page 1245 were made at 130°–140° C., whereas the tests made by applicant were under 100° C. at 200° F.

It is our view that the composition is old as claimed or obvious from Mead et al. It does not render Mead et al.'s composition patentable to test the same at 200° F. (claim 20) or by the Funk machine test (claim 21).

[2] It seems to us that the above quotation from the Board's opinion fully answers the contentions of appellant. Surely, appellant is not entitled to a patent on a composition or a process based upon its use merely because, by experimentation at certain temperatures and under certain conditions, he has found that the substance rejected by the prior art has utility, when the claims presented contain no definite percentage of inhibitors or any other limitations or elements which lend patentability. If appellant, by using p-anisidine in a certain critical percentage or at critical temperatures or under other critical conditions has discovered why Mead et al. had not found the material beneficial, his invention, if any, would rest in such discovery, and these critical conditions which brought about the useful results should be presented in the claims.

It is not argued here that the limitations with reference to the Funk machine test or the temperature "of the order of 200° F." lend patentability to the claims containing them if the other claims not containing them are not allowable, but even if it were so contended it would be unavailing for the reason that there is no showing that the success claimed flows from any criticalness of the temperature "of the order of 200° F." employed in the Funk test.

Appellant in arguing that the Mead et al. reference should not be a bar to obtaining a patent, since it teaches the opposite of the result of his discovery, relies upon the following authorities: *Warren Bros.* v. *City of Owosso*, 166 Fed. 309 and Robinson on Patents (1890), vol. 1, page 445. Both of these authorities go to the question of abandoned experiment in determining priority of invention. Determining priority of invention is a wholly different question from determining what would be inventive over the suggestion of a reference such as we have in the instant case.

The decision of the Board, affirming that of the Examiner in rejecting the appealed claims, is affirmed.

Affirmed.

GARRETT, *P. J.*, (concurring):

It is my view that under a fair construction of the patent law there may be circumstances or conditions by reason of which a party who finds effective or helpful a process disclosed in prior art but taught in such art to be ineffective or harmful may be entitled to a patent as a discoverer. I think this broad generality admits of no serious challenge and I do not understand the majority opinion to hold otherwise. To entitle one to a patent, however, under such circumstances, obviously the application should definitely show the conditions which render the article or process effective and I am unable to find where that is shown in the instant case. It is pointed out in the majority opinion that the authors of the publication, cited as a reference, to quote the language of the Examiner, "cautioned the reader that under a different set of conditions a different result might be obtained." It is my view that if appellant had definitely pointed out differences in conditions respecting his experiments and developments and phrased his claims accordingly, a different conclusion might be proper, but having failed to do this the conclusion reached by the majority is the correct one.

U. S. Court of Customs and Patent Appeals

IN RE TAUB ET AL.

No. 4,532. Decided February 24, 1942

[125 F.(2d) 719]

1. APPEAL—EXPERIMENTS NOT PRESENTED BELOW.
   Where appellants did not present certain experiments to the tribunals of the Patent Office and referred to them for the first time in their brief before the Court of Customs and Patent Appeals *Held* that these experiments could not be considered by that court.

2. RULE 76—AFFIDAVIT.
   "Appellants had the right under rule 76 to controvert by affidavit the conclusion of the Primary Examiner that nitro and chloro rings are equivalent substituents. They contend that there is no evidence to support this 'bald assertion of equivalency'. The burden was upon appellants to show that the said substituents are not equivalents."

3. PATENTABILITY—QUATERNARY AMMONIUM COMPOUNDS.
   Certain claims of appellants' application relating to quaternary ammonium compounds *Held* unpatentable over the prior art.

APPEAL from Patent Office. Affirmed.

Messrs. Potter, Pierce & Scheffler (*Mr. John S. Lachowitz* and *Mr. Richard L. Scheffler* of counsel) for Taub et al.

Mr. W. W. Cochran (*Mr. Clarence W. Moore* of counsel) for the Commissioner of Patents.

JACKSON, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner rejecting, for want of invention over the prior art, all of the claims, 2 to 5 inclusive and 7 to 17 inclusive, of an application for an alleged invention for "Quaternary Ammonium Compounds".

Appellants moved in this court to dismiss the appeal as to all of the rejected claims, except claims 14 and 15, which motion will be granted.

Claims 14 and 15 read as follows:

14. Dimethyl-dichlorobenzyl-dodecyl-ammonium halides.
15. Dimethyl-3.4-dichlorobenzyl-dodecyl-ammonium-chloride.

The references cited are: French Patent 782,930, March 25, 1935; Piggott, 2,075,958, April 6, 1937; Domagk, 2,108,765, February 15, 1938.

Since the French patent substantially duplicates the domestic Domagk patent and was cited only because of its earlier publication date, it will not be necessary to consider it.

A description of the alleged invention, admitted by counsel for appellants to be correct, appears in the statement of the Examiner as follows:

The invention relates to quaternary ammonium compounds containing attached to the nitrogen atom at least one aliphatically bound halobenzene radical (halobenzyl, etc.) and one high molecular aliphatic hydrocarbon radical of from 8 to 18 carbon atoms, the remaining valences of the quaternary nitrogen atom being taken up by lower alkyl, lower alkenyl or lower alkylene radicals and an anion of the group consisting of mineral acid, carboxylic acid and hydroxyl anions. These compounds are particularly useful as bactericides and fungicides. The essential groups which impart the properties of particular value in the claimed compounds are the aliphatically bound halobenzene groups (halo-benzyl, etc.) and the long chain aliphatic hydrocarbon radical of from 8 to 18 carbon atoms.

The Domagk and Piggott patents each disclose quaternary ammonium compounds. The specification of the Domagk patent contains the following statements:

I have found that quaternary ammonium compounds display considerable bactericidal and fungicidal properties if they contain at least one higher molecular aliphatically bound hydrocarbon radical as substituent of the nitrogen atom.

* * * * * * *

The higher molecular aliphatically bound hydrocarbon radical referred to above contains eight or more carbon atoms and may contain further substituents, such as halogen atoms. * * *

* * * * * * * *

* * * Preferably those quaternary ammonium compounds in which the higher molecular aliphatic hydrocarbon radical contains from 8 to 18 carbon atoms are used for preserving and disinfecting purposes. Advantageously they contain as a further substituent an aliphatically bound phenyl group.

The patent to Piggott discloses benzyl-dimethyl-hexadecyl-ammonium chloride. Piggott does not state in his patent that his compounds have bactericidal and fungicidal properties. He states that his

products are valuable "in processes for the treatment of textile fabrics".

The only difference between the compounds defined in the appealed claims from those disclosed in the prior art is in one of the four organic radicals. This difference is undisputed. As stated by appellants in their brief:

> The question presented in this appeal is whether there is invention in the substitution of a chlorinated benzyl radical for the benzyl, the nitro-benzyl and the sulfo-benzyl radicals in the prior art compounds.

The Primary Examiner, although he admitted that appellants' specific compounds may be novel, held they did not involve invention, stating that:

> • • • There is no invention seen in substituting in the benzene ring of the benzyl ammonium compounds of the prior art a halogen atom to obtain a compound which still has the same bactericidal and fungicidal properties, even though these properties may be enhanced (which has *not* been proved). The results obtained by applicants differ only in degree and not in kind. Domagk does disclose a benzyl ammonium compound which is substituted in the benzene ring by a nitro (NO_2) group (page 1, column 1, lines 39–40) and which has the claimed properties. There is no invention seen in replacing the ring nitro group by a ring chloro group to obtain a compound still having the same properties. Nitro and chloro ring substituents are considered to be equivalents in a molecule of the size claimed, in the absence of a showing of unexpected properties in the chloro product. It is to be particularly noted that Domagk does disclose that "The higher aliphatically bound hydrocarbon radical • • • may contain further substituents, such as *halogen* atoms" [italics added]. Applicants argue that, from the Domagk patent, it is apparent that the higher alkyl radical is the radical which gives the compounds its bactericidal and fungicidal properties. This may or may not be true, and is unimportant; whether true or not, Domagk does disclose that the long chain ammonium compound containing benzyl (and nitro substituted benzyl) radicals do have the bactericidal and fungicidal properties upon which properties applicants' invention depends. It is to be noted that Domagk states (page 1, column 2, lines 5, 6, and 7), "Advantageously they contain as a further substituent an aliphatically bound phenyl group".

After appeal had been taken to the Board of Appeals, two affidavits were filed, alleged by appellants to indicate that the claimed compounds are patentable over the prior art and the application was remanded to the Primary Examiner for reconsideration.

The Examiner in his supplemental statement, after having given due consideration to the affidavits, adhered to his former rejection. He admitted that one of the affidavits shows the claimed compounds to have a greater disinfecting power, but of the same kind, than the compounds of the prior art, but held the difference to be of degree only and not of kind and hence not unexpected and expressing no invention over the prior art.

With respect to that affidavit, the Examiner also stated:

> Further, it is to be noted that Domagk discloses a *nitro* benzyl substituted ammonium compound and that the claimed compounds have been rejected on the ground that there is no invention seen in substituting the nitro group by a halogen. The Gottsacker affidavit compares the claimed halo-benzyl compounds with *unsubstituted* (on the ring) benzyl compounds.
>
> It is, in addition, particularly pointed out that Domagk discloses (page 1, 1st column, lines 12 to 15) "The higher molecular aliphatically bound *hydrocarbon* radical • • • may contain further substituents such as *halogen* atoms • • • [italics added]. The disclosure of benzyl radicals and nitrobenzyl radicals, coupled with the statement (page 1, column 2, lines 1 to 7) that "advantageously they contain as a further substituent an aliphatically bound phenyl group" and the above statement clearly points out that Domagk contemplated such compounds as the claimed halobenzyl ammonium salts.

The Examiner disposed of the other affidavit in the following language:

> The Schleicher affidavit shows that the stimulus value of the claimed compounds and those of the prior art is about the same, which property is not seen to be unexpected. The increase of irritation resulting from the halogenation of benzyl ammonium hydrochloride is not seen to be a criterion, since the claimed compounds are long chain alkyl di-lower alkyl substituted benzyl ammonium salts, which compounds, due, at least in part, to the presence of the long chain alkyl group have particular properties not exhibited by the unsubstituted benzyl ammonium salts. In fact it is these properties upon which applicants base patentability of the claimed compounds. It is to be noted that the claims point out that the presence of a long chain (8 to 18 carbon atoms) alkyl group is an essential feature of the claimed compounds. Hence the comparison of the reactions of unsubstituted benzyl ammonium compounds is not seen to be analogous.

The Board of Appeals, while it generally affirmed the reasons for rejection of the claims by the Primary Examiner, discussed only the sulfo-benzyl and nitro-benzyl compounds of the prior art.

In the brief of the Solicitor for the Patent Office it is admitted that a statement appearing in the decision of the board misinterpreted a portion of appellants' specification. That statement is as follows:

> It appears from page 2 of the specification that it is not highly critical whether the added radical in the benzyl group be halogen or some other radical. It is only stated that it is preferable that it be of halogen.

It is contended, however, in said brief that the admitted error is not a ground for reversing the Board's decision in view of the context, which reads immediately following the misinterpreted portion as follows:

> • • • In view of this non-critical situation and *even in general*, it seems that substitution of one or another radical in that particular relation becomes only a matter of choice so far as representing any chemical compounds are involved. [Italics added.]

It is our opinion that the italicized words "even in general" are sufficient for us to hold the admitted error to be harmless.

We think that the tests outlined in the affidavits were insufficient for a proper comparison between the properties of the compounds defined in the appealed claims and those of the prior art for the reason that the tests were not made of the compounds of the prior art comprising the disclosed substituents of the differing fourth organic radical. It was upon the disclosure of the substituents in the prior art that the rejection of the Examiner was based.

[1] Appellants evidently did not think the said tests were sufficient, possibly in the light of the decisions below, for they sought in their brief for the first time to supply the deficiency by a recital of experiments alleged to exemplify that their dichlorobenzyl dodecyl compounds are between two and two and one-half times as powerful as the nitro-dodecyl compound of the prior art.

It may be that the later experiments might have been held to be sufficient if they had been presented to the tribunals of the Patent Office to establish appellants' contention that their compounds should be held to be patentable over the prior art. But obviously they cannot be considered here.

[2] Appellants had the right under rule 76 to controvert by affidavit the conclusion of the Primary Examiner that nitro and chloro rings are equivalent substituents. They contend that there is no evidence to support this "bald assertion of equivalency." The burden was upon appellants to show that the said substituents are not equivalents. This they did not do. *In re Hartung*, 28 C. C. P. A. (Patents), 1364, 121 F.(2d) 529, 532 O. G. 516.

In our opinion no reversible error appears.

[3] The appellants' motion to dismiss the appeal as to claims 2 to 5 inclusive, 7 to 13 inclusive, and 16 and 17 is granted, and the decision of the Board of Appeals affirming that of the Primary Examiner rejecting claims 14 and 15 is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,498,269, J. J. Harris, Adhesive material, D. C., W. D. Mich. (Grand Rapids), Doc. 172, *J. J. Harris* v. *Therminsul Corp.* Dismissed with prejudice Feb. 24, 1942.

1,545,612, 1,545,613, D. R. Scholes, Supporting tower, D. C., Del., Doc. E 1232, *Aermotor Co.* v. *Bethlehem Steel Co.* Claims 8 and 9 of 1,545,612 held invalid; bill dismissed (notice Feb. 16, 1942).

1,545,613. (See 1,545,612.)

1,613,656, R. E. Hall, Treating steam boiler water; 1,613,701, same, Treatment of boiler water; 1,903,041, Hall & Jackson, Water treatment, D. C., E. D. Mich., S. Div., Doc. 2908, *J. M. Hopwood et al.* v. *Jos. H. Spurgeon Co.* Consent judgment for plaintiff (notice Feb. 16, 1942).

1,613,701. (See 1,613,656.)

1,622,031, W. S. Elters, Register hood; Des. 72,514, same, Hood for registers, D. C., N. D. Ohio, E. Div., Doc. E 5574, *Beh & Co., Inc.*, v. *Marshallan Mfg. Co.* Consent decree holding claims 1, 5, 6, 7, 9, 10 and 11 of 1,622,031 valid but not infringed; Des. 72,514 held invalid for want of invention Feb. 6, 1942.

1,631,556, 1,699,994, 1,760,567, 1,760,568, H. T. Shearer, Die head; 1,738,847, same, Chaser and chaser holder for die heads; 1,699,373, 1,692,514, Newman & Harper, Die head; 1,795,558, J. G. Harper, Chaser holder; 1,861,327, 1,874,643, 1,894,296, Shearer & Reimschissel, Die head; 1,951,290, C. A. Reimschissel, Chaser holder with angular clamps, D. C., E. D. Mich. (Detroit), Doc. 7170, *Landis Machine Co.* v. *Michigan Tool Co., The Chaso Tool Co., Inc.* Dismissed as to Michigan Tool Co., Dec. 28, 1939. Judgment dismissing complaint Feb. 16, 1942.

1,692,514. (See 1,631,556.)

1,699,373. (See 1,631,556.)

1,699,994. (See 1,631,556.)

1,727,095, L. Bleriot, Advertising and signaling device; 1,794,828, same, Aerial advertising and signaling, D. C., S. D., N. Y., Doc. 87/394, *Kellett Autogiro Corp. et al.* v. *S. S. Pike Co., Inc., Gyro Ads, Inc.* Final order (notice Feb. 18, 1942).

1,738,847. (See 1,631,556.)

1,760,567. (See 1,631,556.)

1,760,568. (See 1,631,556.)

1,794,828. (See 1,727,095.)

1,795,167, L. Gross, Successive immersion device; 1,809,781, G. G. Gross, Slide box; 2,157,875, E. C. Weiskopf, Automatic immersion apparatus; 2,119,407, same, Means for filing micro-slides, D. C., S. D. N. Y., Doc. 15/21, *G. G. Gross et al.* v. *E. C. Weiskopf et al.* Final order as to M. Goldstein, Aug. 15, 1941. Consent order of discontinuance (remaining defendants) Feb. 3, 1942.

1,795,558. (See 1,631,556.)

1,809,781. (See 1,795,167.)

1,861,327. (See 1,631,556.)

1,874,643. (See 1,631,556.)

1,894,296. (See 1,631,556.)

1,903,041. (See 1,613,656.)

1,951,290. (See 1,631,556.)

1,962,395. (See Re. 19,562.)

2,000,064, 2,120,230, H. S. Cover, Respirator, D. C., S. D. N. Y., Doc. 2/267, *H. S. Cover* v. *Hygeia Respirator Co.* Final judgment (notice Feb. 19, 1942).

2,065,304, H. S. Cover, Respirator, D. C. S. D. N. Y., Doc. E. 85/149, *H. S. Cover* v. *Hygeia Respirator Co.* Final judgment (notice Feb. 19, 1942).

2,079,107. (See Re. 19,562.)

2,082,757, 2,082,758, C. A. Reimschissel, Die head; 2,154,006, Mathias & Hollengreen, same, D. C., E. D. Mich., S. Div., Doc. 2114, *Landis Machine Co.* v. *Chaso Tool Co., Inc.* Judgment dismissing complaint Feb. 16, 1942.

2,082,758. (See 2,082,757.)

2,119,407. (See 1,795,167.)

2,120,230. (See 2,000,064.)

2,146,424. (See Re. 21,236.)

2,154,006. (See 2,082,757.)

2,157,875. (See 1,795,167.)

2,191,290. (See Des. 96,415.)

Re. 19,562 (of 1,962,395), J. Jones, Mask for fowls; 2,079,107, J. C. Cridlebaugh, Device to prevent picking in poultry, filed Feb. 13, 1942, D. C., N. D. Calif. (San Francisco), Doc. 22083–R, *The Marvel Co.* v. *Montgomery Ward & Co.*

Re. 21,236, D. R. Hillis, Divisional feeder; 2,146,424, C. E. Dirkes, Feeding device for lubricants, D. C., E. D. Mich., S. Div., Doc. 2530, *Trabon Engineering Corp.* v. *Dirkes Industries, Inc.* Judgment dismissing complaint and cross complaint (notice Feb. 6, 1942).

Des. 72,514. (See 1,622,031.)

Des. 96,415, Richardson & Willey, Desk; Des. 98,737, same, Coin controlled phonograph; 2,191,290, Des. 111,220, same, Desk construction, filed Feb. 19, 1942, D. C., W. D. Mich. (Grand Rapids), Doc. 235, *B. E. Richardson et al.* v. *Gunn Furniture Co.*

Des. 98,737. (See Des. 96,415.)

Des. 110,141, Des. 110,142, Des. 110,143, R. Geissmann, Brooch pin, D. C. R. I., Doc. 65, *Cohn & Rosenberger, Inc.*, v. *Lisker & Lisker, Inc.* Consent judgment for plaintiff (notice Feb. 3, 1942).

Des. 110,142. (See Des. 110,141.)

Des. 110,143. (See Des. 110,141.)

Des. 111,220. (See Des. 96,415.)

Des. 119,924, D. W. Price, Dress; Des. 120,093, C. Korzinek, Jr., Textile fabric, D. C., S. D. N. Y., Doc. 8/382, *Price-Schlesinger, Inc.*, v. *Michael-Shulkin & Co., Inc., et al.* Consent order of discontinuance (notice Feb. 18, 1942).

Des. 120,093. (See Des. 119,924.)

Des. 131,323, Des. 131,324, J. H. Abt, Textile fabric, filed Feb. 10, 1942, D. C., S. D. N. Y., Doc. 17/254, *Shipman & Baker, Inc.*, v. *Philip Schlansky & Bro., Inc., et al.*

Des. 131,324. (See Des. 131,323.)

T. M. 111,759, Panama Lubricants Co., Lubricant; T. M. 248,431, The Pennzoil Co., Motor fuel oils and lubricant oils and greases, D. C. Nebr. (No. Platte), Doc. 74, *The Pennzoil Co. et al.* v. *Terry Carpenter, Inc., et al.* Consent decree Dec. 29, 1941. Injunction issued Jan. 7, 1942.

T. M. 248,431. (See T. M. 111,759.)

Adjudicated Patents

(D. C. Mich.) Tomlinson patent, No. 1,238,959, for terminal bending tool for armatures, *Held* invalid and not infringed. *Apple* v. *Ford Motor Co.*, 43 F. Supp. 300.

(D. C. Mich.) Apple patent, No. 1,264,749, for method of building armatures, *Held* invalid and not infringed. *Id.*

(D. C. Mich.) Apple patent, No. 1,275,195, for armature construction for dynamo electric machines, *Held* invalid and not infringed. *Id.*

(D. C. Pa.) Kathner patent, No. 1,810,612, for method of heat treating metal, claims 1–3 *Held* invalid, and if valid *Held* not infringed. *Duraloy Co.* v. *Carnegie-Illinois Steel Corporation*, 43 F. Supp. 291.

(D. C. Mich.) Apple reissue patent, No. 16,889, for machine for bending armature terminals, claims 1, 2, 5, and 7 *Held* not infringed, if valid. *Apple* v. *Ford Motor Co.*, 43 F. Supp. 300.

(D. C. Mich.) Apple reissue patent, No. 17,353, for method of building armatures, *Held* invalid and not infringed. *Id.*

(D. C. Pa.) Kathner reissue patent, No. 17,413, for annealing and heat-treating furnace, *Held* invalid, and if valid *Held* not infringed. *Dursley Co.* v. *Carnegie-Illinois Steel Corporation*, 43 F. Supp. 291.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 2,127,439, C. G. Suits, Electric valve circuits, decided April 6, 1942, claims 1, 2, 13, 14, 15, and 16.

Pat. 2,197,284, P. A. Wooster, Operating mechanism for dispensing devices, decided February 23, 1942, claims 5 and 8.

Pat. 2,199,217, Cook, Gawthrop, Wahl and Woodbury, Granular ammonium nitrate explosive, decided April 9, 1942, claims 3, 4, and 9.

Pat. 2,199,218, Cook, Gawthrop, Wahl and Woodbury, Granular ammonium nitrate explosive, decided April 9, 1942, claims 4 and 5.

Disclaimers

T. M. No. 355,098.—*Wm. T. Knott Company, Inc.*, New York, N. Y. TRADE-MARK "SUPER FLEECE" FOR MEN'S, WOMEN'S, AND CHILDREN'S COATS, HATS, SWEATERS, HOSIERY, JACKETS, SHOES OF LEATHER, RUBBER, AND/OR FABRIC, AND COMBINATIONS THEREOF, LEATHER AND FABRIC GLOVES, PAJAMAS, LOUNGING ROBES, MUFFLERS, BELTS FOR OUTER WEAR, GARTERS, BATHING SUITS, BEACH ROBES; WOMEN'S DRESSES, SLIPS, AND BRASSIÈRES; CHILDREN'S DRESSES; AND UNDERWEAR FOR MEN, WOMEN, AND CHILDREN. Registered March 8, 1938. Disclaimer filed March 21, 1942, by the registrant.

Hereby disclaims the words "and underwear for men, women, and children," now forming part of the statement of said registration.

1,875,912.—*Jack W. Arndt*, Milwaukee, Wis. COOLING SYSTEM FOR MARINE ENGINES. Patent dated September 6, 1932. Disclaimer filed April 11, 1942, by the assignee, *Outboard, Marine and Manufacturing Company.*

Hereby disclaims claim 16 of said patent.

1,963,917.—*Frederick H. MacLaren*, Calumet City, Ill. POUR TEST DEPRESSOR. Patent dated June 19, 1934. Disclaimer filed April 6, 1942, by the assignee, *Standard Oil Company (Indiana).*

Hereby enters this disclaimer to claims 4 and 16 in said specification.

2,127,439.—*Chauncey G. Suits*, Schenectady, N. Y. ELECTRIC VALVE CIRCUITS. Patent dated August 16, 1938. Disclaimer filed April 11, 1942, by the assignee, *General Electric Company.*

Hereby enters this disclaimer to claims 1, 2, 3, 5, 6, 13, 14, 15, and 16 in said patent.

2,131,720.—*Eugene St. Pierre*, Pawtucket, R. I. KNITTED FABRIC AND METHOD OF MAKING THE SAME. Patent dated September 27, 1938. Disclaimer filed April 16, 1942, by the assignee, *Hemphill Company.*

Hereby enters this disclaimer to that part of the specification of said patent which constitutes lines 50 to 57 inclusive, second column, page 2 and which is in the following words—

"In the foregoing description and in some of the claims, reference has been made to 'alternate' with respect to wales and courses; by 'alternate' it is not intended to limit the invention to 'every other' either as applied to wales or courses, as the elastic and inelastic courses may alternate in other than in a one and one relation, e. g., one and two, two and one, and two and two."

2,208,766.—*Howard C. Lawton*, Berkeley, Calif. METHOD OF SEALING OFF POROUS FORMATIONS. Patent dated July 23, 1940. Disclaimer filed April 6, 1942, by the assignee, *Shell Development Company.*

Hereby disclaims from the scope of claim 1 all processes for decreasing the permeability of porous ground except those wherein the treating mixture introduced into the porous ground consists of an aqueous solution of a water-soluble silicate and a compound selected from the group consisting of weak bases and their non-metallic salts of organic acids, which salts are soluble in basic solution;

And from the scope of claim 7 all processes for decreasing the permeability of porous ground except those wherein the treating mixture introduced thereinto consists of an aqueous solution of a water-soluble silicate and a salt of a weak base and of an organic acid.

2,233,077.—*Charles P. Gillespie* and *Ernest L. Barker*, Houston, Texas. WELL CONTROLLING APPARATUS. Patent dated February 25, 1941. Disclaimer filed April 11, 1942, by the assignee, *Herbert C. Otis.*

Hereby enters this disclaimer of claims 4 and 7 of the aforesaid patent.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 5, 1942

[VOL. 538. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 449,423. KEYES FIBRE COMPANY, Waterville, Maine. Filed Dec. 12, 1941.

KYS-ITE

FOR MOLD CHARGE IN THE NATURE OF A MOLDING COMPOUND COMPRISING FIBROUS PULP IN ADMIXTURE WITH A PLASTIC SUBSTANCE OR SUBSTANCES ADAPTED TO BE PLACED IN CURING DIES AND BROUGHT TO FINISHED CONDITION BY THE APPLICATION OF HEAT AND MECHANICAL PRESSURE.

Claims use since Mar. 22, 1940.

Ser. No. 450,734. B. D. EISENDRATH TANNING CO., Chicago, Ill. Filed Feb. 4, 1942.

'V' CALF

Applicant disclaims the word "Calf" apart from the mark.

FOR LEATHER.

Claims use since Jan. 10, 1942.

Ser. No. 451,262. CONSOLIDATION COAL COMPANY, New York, N. Y. Filed Feb. 27, 1942.



FOR COAL.

Claims use since Feb. 3, 1942.

Ser. No. 451,263. CONSOLIDATION COAL COMPANY, New York, N. Y. Filed Feb. 27, 1942.



FOR COAL.

Claims use since Feb. 3, 1942.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 447,989. CLARENCE H. STONE, doing business as C. H. Stone Company, Lynnfield Center, Mass. Filed Oct. 21, 1941.

DORICON

FOR SOLVENT SOAP AND WATERPROOFING AGENTS FOR LEATHER.

Claims use since Mar. 7, 1941.

Ser. No. 450,728. FRED DELIOUORI, Washington, D. C. Filed Feb. 4, 1942.



FOR CLEANING COMPOUND SPECIALLY PREPARED FOR USE IN CLEANING CHINA, GLASS, SILVER, FLOORS, AND WALLS.

Claims use since Dec. 1, 1941.

Ser. No. 451,035. THE GREAT ATLANTIC & PACIFIC TEA COMPANY, New York, N. Y. Filed Feb. 17, 1942.

WHITE SAIL

FOR HOUSEHOLD CLEANSER.
Claims use since Sept. 18, 1940.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 448,734. LEHN & FINK PRODUCTS CORPORATION, Bloomfield, N. J. Filed Nov. 18, 1941.

ETIQUET

FOR ANTI-PERSPIRANT AND DEODORANT CREAM.
Claims use since Oct. 28, 1941.

Ser. No. 450,153. AMERICAN CYANAMID & CHEMICAL CORPORATION, New York, N. Y. Filed Jan. 12, 1942.

AEROFLO

FOR CHEMICAL PREPARATION FOR THE TREATMENT OF OIL WELL DRILLING MUDS.
Claims use since January, 1941.

Ser. No. 451,108. HOFFMANN-LA ROCHE, INC., Nutley, N. J. Filed Feb. 20, 1942.

BE-DUL-CE

No claim is made to the vitamin designations "Be" and "Ce" apart from the mark.
FOR MEDICINAL PREPARATION RECOMMENDED FOR GENERAL USE IN VITAMIN DEFICIENCIES, AND AS GENERAL TONICS AND SOURCES OF CALORIES.
Claims use since Jan. 29, 1942.

Ser. No. 451,166. ENDO PRODUCTS. INC., New York, N. Y. Filed Feb. 23, 1942.

PANCAL

FOR PREPARATION OF CALCIUM PANTOTHENATE FOR DEFICIENCIES OF PANTOTHENIC ACID, A MEMBER OF THE VITAMIN B COMPLEX.
Claims use since Feb. 1, 1942.

Ser. No. 451,232. HANLEY AND KINSELLA LABORATORIES, INC., St. Louis, Mo. Filed Feb. 26, 1942.

BOMB SHELL

FOR NON-SPRAY LIQUID INSECTICIDE.
Claims use since Feb. 16, 1942.

Ser. No. 451,530. CIBA PHARMACEUTICAL PRODUCTS, INC., Summit, N. J. Filed Mar. 10, 1942.

BIOTOSE

FOR PHARMACEUTICAL VITAMIN PREPARATION.
Claims use since Jan. 20, 1942.

Ser. No. 451,545. CAMPBELL PRODUCTS, INC., New York, N. Y. Filed Mar. 11, 1942.

MUCARGOL

FOR PREPARATION IN POWDER AND OINTMENT FORMS, FOR USE IN RECTAL THERAPY.
Claims use since Mar. 28, 1941.

Ser. No. 451,554. LENTHERIC, INCORPORATED, New York, N. Y. Filed Mar. 11, 1942.

FOLK DANCE

FOR PERFUMES, TOILET WATERS, AND COSMETIC CREAMS.
Claims use since Feb. 25, 1942.

Ser. No. 451,579. CHARLES ROGERS, New York, N. Y. Filed Mar. 12, 1942.

P-A-C

FOR PREPARATION FOR THE RELIEF OF PAINS, HEADACHES, AND DISCOMFORT DUE TO COLDS.
Claims use since June 1, 1933.

Ser. No. 451,640. THE C. B. DOLGE COMPANY, Westport, Conn. Filed Mar. 16, 1942.

STERIDOL

FOR CUTTING OIL GERMICIDE.
Claims use since Nov. 1, 1941.

Ser. No. 451,767. GENERAL CHEMICAL COMPANY, New York, N. Y. Filed Mar. 20, 1942.

SNOFIL

FOR CALCIUM SULFATE.
Claims use since Feb. 2, 1942.

Ser. No. 451,780. PREMO PHARMACEUTICAL LABORATORIES, INC., New York, N. Y. Filed Mar. 20, 1942.

CERICODE

FOR COUGH MIXTURE.
Claims use since March, 1936.

Ser. No. 451,781. PREMO PHARMACEUTICAL LABORATORIES, INC., New York, N. Y. Filed Mar. 20, 1942.

BEADOXIN

FOR PREPARATION OF PYRIDOXINE HYDROCHLORIDE FOR TREATMENT OF DEFICIENCY IN B COMPLEX FACTORS.
Claims use since September, 1940.

Ser. No. 451,787. THE TREMCO MANUFACTURING COMPANY, Cleveland, Ohio. Filed Mar. 20, 1942.

TREMGARD

FOR CORROSION INHIBITING COATING LIQUIDS FOR METAL SURFACES.
Claims use since Feb. 21, 1942.

Ser. No. 451,794. AVON PRODUCTS, INC., New York, N. Y. Filed Mar. 21, 1942.

FURLOUGH

FOR PERFUMES.
Claims use since Mar. 13, 1942.

Ser. No. 451,825. ERIC R. OLSON AND TOM C. HAWKINS, Crafton, Pa. Filed Mar. 21, 1942.



FOR MEDICINAL PREPARATION FOR TREATING CUTS, SCRATCHES, LACERATIONS, STRAIGHT CASTRATIONS, DEHORNING, ETC., IN LIVESTOCK.
Claims use since November, 1941.

Ser. No. 451,847. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Mar. 23, 1942.

DIGIFORTIS

FOR PREPARATIONS CONTAINING CARDIOACTIVE CONSTITUENTS OF DIGITALIS FOR USE IN TREATMENT OF CARDIOVASCULAR DISTURBANCES.
Claims use since Mar. 11, 1925.

Ser. No. 451,848. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Mar. 23, 1942.

LIPO-LUTIN

FOR PREPARATIONS CONTAINING PROGESTIN FOR TREATMENT OF CERTAIN ENDOCRINE DEFICIENCIES.
Claims use since Jan. 4, 1928.

Ser. No. 451,849. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Mar. 23, 1942.

MYCOZOL

FOR PREPARATIONS USED IN TREATMENT OF FUNGUS AND OTHER INFECTIONS.
Claims use since June 25, 1930.

Ser. No. 451,850. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Mar. 23, 1942.

DERMAMENT

FOR PREPARATIONS USED FOR PROTECTION OF THE SKIN AND FOR PREVENTION AND TREATMENT OF DISTURBANCES OF SKIN SURFACES.
Claims use since Aug. 12, 1936.

Ser. No. 451,852. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Mar. 23, 1942.

KAPSEALS

FOR MULTIPLE VITAMIN PREPARATION USED IN TREATMENT OF CERTAIN VITAMIN DEFICIENCIES; A PREPARATION CONTAINING THE VITAMIN B COMPLEX USED IN TREATMENT OF CERTAIN VITAMIN DEFICIENCIES; A PREPARATION CONTAINING THE VITAMIN B COMPLEX AND VITAMIN C USED IN TREATMENT OF CERTAIN VITAMIN DEFICIENCIES; A PREPARATION CONTAINING DESICCATED FRESH WHOLE BILE USED IN TREATMENT OF BILIARY DISTURBANCES; A PREPARATION CONTAINING CARDIOACTIVE CONSTITUENTS OF DIGITALIS USED IN TREATMENT OF CARDIOVASCULAR DISTURBANCES; AN ANTICONVULSANT PREPARATION USED IN TREATMENT OF SPASMODIC AND CONVULSIVE CONDITIONS; A PREPARATION CONTAINING AN IRON SALT AND DESICCATED FRESH WHOLE BILE USED IN TREATMENT OF SECONDARY ANEMIA ASSOCIATED WITH BILIARY DISTURBANCES; A PREPARATION CONTAINING PYRIDOXINE HYDROCHLORIDE USED IN TREATMENT OF CERTAIN VITAMIN DEFICIENCIES; AN IRON PREPARATION USED IN TREATMENT OF HYPOCHROMIC ANEMIAS; A SEDATIVE AND ANALGESIC PREPARATION USED IN TREATMENT OF NERVOUS CONDITIONS ASSOCIATED WITH PAIN AND DISCOMFORT; A PREPARATION CONTAINING AN ORAL BACTERIAL VACCINE USED FOR PREVENTION OF UPPER RESPIRATORY INFECTIONS; A PREPARATION CONTAINING A SUBSTANCE POSSESSING VITAMIN K ACTIVITY USED IN TREATMENT OF VITAMIN K DEFICIENCIES; A PREPARATION CONTAINING A STARCH DIGESTANT AND THE VITAMIN B COMPLEX FOR TREATMENT OF CERTAIN VITAMIN DEFICIENCIES AND DIGESTIVE DISTURBANCES; AN ORAL ESTROGENIC PREPARATION FOR TREATMENT OF ENDOCRINE DEFICIENCIES; A PREPARATION CONTAINING CONCENTRATED ANTIANEMIC EXTRACT OF STOMACH TISSUE, AN IRON SALT, THIAMINE HYDROCHLORIDE, AND RIBOFLAVIN USED IN TREATMENT OF VARIOUS TYPES OF ANEMIA.
Claims use since July 25, 1931.

Ser. No. 451,897. LENTHERIC, INCORPORATED, New York, N. Y. Filed Mar. 25, 1942.

CLOSE-UP

FOR LIPSTICKS AND ROUGES.
Claims use since Feb. 10, 1942.

CLASS 7

CORDAGE

Ser. No. 451,734. CLEMENT L. YANCEY, JR., doing business as Greensboro Cotton Twine Company, Greensboro, N. C. Filed Mar. 18, 1942.

TOMAHAWK

FOR COTTON TWINE.
Claims use since July 1, 1936.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 449,409. COPYRIGHT CARBON CORPORATION, Cleveland, Ohio. Filed Dec. 12, 1941.

NEOGRAPH

FOR CARBON PAPERS AND TYPEWRITER RIBBONS.
Claims use since July 2, 1941.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 448,822. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Nov. 22, 1941. Under section 5b of the act of 1905 as amended in 1920.

DU PONT

FOR EXPLOSIVE RIVETS TO BE USED IN ALL TYPES OF METAL AND GENERAL CONSTRUCTION WORK, IN A METHOD OF RIVETING WHEREBY AN EXPLOSIVE CHARGE CONTAINED IN THE SHANK OF THE RIVET IS DETONATED BY AN APPLICATION OF HEAT TO THE HEAD OF THE RIVET.
Claims use since Jan. 15, 1941.

Ser. No. 451,016. PENBERTHY INJECTOR COMPANY, Detroit, Mich. Filed Feb. 16, 1942.

PENBERTHY PRODUCTS

The word "Products" is disclaimed apart from the mark. Applicant claims ownership of registrations No. 152,939, dated Mar. 7, 1922, and No. 155,506, dated May 30, 1922.
FOR RELIEF VALVES, REDUCING VALVES, AND VACUUM BREAKERS.
Claims use since January, 1935, on relief and reducing valves; and since June, 1935, on vacuum breakers.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 449,197. A. K. WILLIAMS AND J. F. SAUNDERS, Boston, Mass. Filed Dec. 4, 1941.

WILLIAMSCOTE

METAL

No claim is made to the word "Metal" apart from the mark.
FOR SPECIALLY PROCESSED METAL SHEETS CONSISTING OF A RUST-RESISTING CORE WITH PURE LEAD EQUALLY APPLIED ON BOTH SIDES OF THE CORE.
Claims use since October, 1937.

CLASS 15

OILS AND GREASES

Ser. No. 450,815. THE SINGER MANUFACTURING COMPANY, Elizabeth, N. J. Filed Feb. 6, 1942.



Trade-mark consists of a rectangular field of green color enclosed in an orange-red border.
FOR LUBRICATING OILS.
Claims use since 1925.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 447,856. WILSON-IMPERIAL COMPANY, Newark, N. J. Filed Oct. 16, 1941.

IMPERIAL

NO-WASH REMOVER

The words "No-Wash Remover" are disclaimed apart from the mark.
FOR PAINT, VARNISH, ENAMEL, OR LACQUER REMOVER.
Claims use since Feb. 3, 1941.

Ser. No. 450,704. THE ARCO COMPANY, Cleveland, Ohio. Filed Feb. 4, 1942.

INFRAY

FOR PAINTS IN READY MIXED FORM, VARNISHES, LACQUERS, AND PAINT ENAMELS.
Claims use since Jan. 13, 1942.

Ser. No. 451,147. ROXALIN FLEXIBLE LACQUER COMPANY, INC., Elizabeth, N. J., now by change of name Roxalin Flexible Finishes, Inc. Filed Feb. 21, 1942.

ROXANEAL

FOR COATING MATERIAL IN THE NATURE OF A PAINT OR LACQUER TO BE APPLIED TO WINDOW GLASS, SKYLIGHTS, ETC., TO RENDER THE SAME SHATTERPROOF.
Claims use since Jan. 23, 1942.

Ser. No. 451,254. ATLAS POWDER COMPANY, Wilmington, Del. Filed Feb. 27, 1942.

ZAPONOID

FOR READY MIXED PAINTS AND PAINT ENAMELS, PAINT COLORS, VARNISHES, LACQUERS, THINNERS FOR PAINTS AND PAINT ENAMELS, PAINT-LIKE COMPOSITIONS FOR LACQUERING AND ENAMELING AND THINNERS THEREFOR.
Claims use since January, 1921.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 425,086. EMERY AND REDMOND, New York, N. Y. Filed Oct. 31, 1939.

AUTOSLEEPER

FOR PORTABLE ELECTRIC COOKING AND HEATING STOVES WITH CARRYING CABINETS AND FITTINGS.
Claims use since Oct. 5, 1939.

Ser. No. 447,293. NORTH AMERICAN MFG. CO., Chicago, Ill. Filed Sept. 24, 1941.

LITE KING

Applicant disclaims the word "Lite" and the representation of the fluorescent light tube.
FOR ELECTRIC FLUORESCENT LAMPS.
Claims use since Sept. 18, 1940.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 445,241. NEWTON LINE COMPANY, INC., Homer, N. Y. Filed July 10, 1941.

Gray Phantom

FOR FISH LINES.
Claims use since July 1, 1939.

Ser. No. 448,320. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio. Filed Nov. 1, 1941.

TOMAHAWK

FOR FISHING LINES.
Claims use since Mar. 15, 1941.

Ser. No. 448,321. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio. Filed Nov. 1, 1941.

TREASURE

FOR FISHING LINES.
Claims use since Mar. 15, 1941.

Ser. No. 451,524. AMERICAN CHARACTER DOLL CORPORATION, New York, N. Y. Filed Mar. 10, 1942.

LITTLE LOVE

FOR DOLLS.
Claims use since Jan. 15, 1942.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 445,621. WIENER MACHINERY COMPANY, INC., New York, N. Y. Filed July 24, 1941.

WIMCO

FOR WOODWORKING EQUIPMENT—NAMELY, BAND SAWS, TENONERS, JOINTERS, PLANERS, SAW TABLES, CUT-OFF SAWS, METAL SAWS, SWING SAWS, DRILLS, ROUTER-GAGES, ROUTER-SAWS, ROUTER PLANES, SAND PAPERING MACHINES, TURNING LATHES, PATTERN LATHES, SPEED LATHES, CUT-OFF MACHINES; METAL WORKING MACHINERY—NAMELY, LATHES, CRANES, STACKING AND TOOL BOXES, CENTERING MACHINES, DRILLS, CUTTERS, KEY SEATERS, OIL SEPARATORS, REAMERS; ANGLE, BENDING, FORGING, REDUCING AND STRAIGHTENING ROLLS; SAND BLAST MACHINES; COLD, HACK AND METAL BAND SAWS; SCREW MACHINES, SEAMING MACHINES, SWAGING MACHINES, THREAD MILLERS, VISES; SHEARS AND RATCHET WRENCHES.
Claims use since March, 1941.

Ser. No. 449,739. DAVID L. MOSS & CO., INC., New York, N. Y. Filed Dec. 24, 1941.

PROMULSOR

FOR MACHINERY AND EQUIPMENT—NAMELY, MIXERS, HOMOGENIZERS, GRINDERS, COLLOIDAL MILLS, DISPERSERS, EMULSIFIERS, SEPARATORS, AND MILLS FOR PROCESSES INVOLVING DISINTEGRATION, DISPERSIONS, EMULSIFICATIONS OF LIQUIDS OR SOLIDS IN LIQUIDS IN THE PRODUCTION OF SAUCES, FRUITS, BERRIES AND OTHER FOOD PRODUCTS; COSMETICS, PHARMACEUTICALS, EMULSIONS, INKS, PAINTS, POLISHES, DISINFECTANTS, DYES AND COLORS, GREASE COMPOUNDS, INSECTICIDES, OILS, SOAPS AND RUBBER.
Claims use since Oct. 1, 1938.

Ser. No. 450,761. DOUGLAS MACHINERY CO., INC., New York, N. Y. Filed Feb. 5, 1942.

ROTOREX

FOR GRINDING MACHINES FOR MACHINE SHOPS FOR GRINDING WORKPIECES OF CONSTRUCTION MATERIALS BY MEANS OF ABRASIVE WHEELS.
Claims use since Jan. 15, 1942.

Ser. No. 450,773. SYNCRO MACHINE COMPANY, Rahway, N. J. Filed Feb. 5, 1942.

SYNCRO

FOR ROD AND WIRE DRAWING MACHINES; ROD AND WIRE SPOOLING MACHINES; COMBINATION ROD AND WIRE DRAWING AND SPOOLING MACHINES; COILER BLOCKS; COMBINATION ROD AND WIRE DRAWING AND COILING MACHINES; STRAND COATING MACHINES INCLUDING WIRE TINNING MACHINES, WIRE ENAMELING MACHINES, WIRE TAPING MACHINES, WIRE WRAPPING MACHINES, WIRE SERVING MACHINES AND MACHINES FOR APPLYING POWDERED INSULATING MATERIAL TO WIRES; MACHINES FOR INSULATING, WEATHERPROOFING AND MOISTUREPROOFING WIRES AND CABLES; STRAND TAKE-UP MACHINES; STRAND REEL PAY-OFF MACHINES, STRAND COILING MACHINES, INSULATING WIRE SATURATING AND FINISHING MACHINES, STRAND ARMORING MACHINES, STRAND ANNEALING MACHINES; ARMORING WIRE PACKAGING MACHINES; MACHINES FOR APPLYING WAX, ADHESIVES AND TOP COATS TO STRANDS AND WIRES AND PARTS THEREOF.
Claims use since Aug. 24, 1933.

Ser. No. 450,793. THE DORR COMPANY, INC., New York, N. Y. Filed Feb. 6, 1942. Under the act of Feb. 20, 1905, as amended June 10, 1938.

VACUATOR

FOR APPARATUS FOR THE TREATMENT OF SOLIDS SUSPENDED IN LIQUIDS AND MORE PARTICULARLY FOR APPARATUS OR EQUIPMENT KNOWN AS THICKENERS OR CLARIFIERS.
Claims use since June 23, 1941.

Ser. No. 450,931. THE UNION FORK & HOE COMPANY, Columbus, Ohio. Filed Feb. 12, 1942.

GARDENKRAFT

FOR HAND OPERATED TOOLS—NAMELY, AXES, CULTIVATORS, CUTTERS, LETTUCE CUTTERS, THISTLE, DOCK, AND WEED CUTTERS, D-HANDLES FOR TOOLS, DRAGS, MANURE DRAGS, POTATO DRAGS, PHOSPHATE DRAGS, STONE DRAGS, EDGERS, LAWN EDGERS, TURF EDGERS, FORKS, LIGHT AND HEAVY FORKS, ALFALFA FORKS, ASPHALT FORKS, BALING FORKS, BALLAST FORKS, BARLEY FORKS, BEET FORKS, CLOVER FORKS, COAL FORKS, COAL SCOOP FORKS, COKE FORKS, COTTON SEED FORKS, ENGLISH DIGGING FORKS, ENSILAGE FORKS, FISH FORKS, FLORAL SPADING FORKS, GRAIN FORKS, HAY FORKS, HEADER FORKS, MANURE FORKS, MILL FORKS, PHOSPHATE FORKS, POTATO DIGGING FORKS, PULP FORKS, SHAVING FORKS, SPADING FORKS, STREET FORKS, STONE FORKS, STONE PICKER FORKS, TANNERS' FORKS, TAR FORKS, VEGETABLE SCOOP FORKS, FLORAL GARDEN TOOLS, ICE CHISELS, HOES, BEET HOES, BLACKLAND HOES, BOYS' HOES, CORN HOES, COTTON HOES, COTTON CHOPPER HOES, CULTIVATOR HOES, EYE HOES, FIELD HOES, FLORAL HOES, GARDEN HOES, GRADING HOES, GRAPE HOES, GRUB HOES, HANDLED SPROUTING HOES, HANDLED SQUARE EYE HOES, LADIES' HOES, MATTOCK HOES, MEADOW HOES, MORTAR HOES, MORTAR MIXER HOES, NURSERY HOES, NURSERYMEN'S HOES, ONION HOES, PLANTER HOES, RHODE ISLAND HOES, RIVETED HOES, SCUFFLE HOES, SPROUTING HOES, STRAWBERRY HOES, STREET HOES, SUGAR BEET HOES, THINNING HOES, TOBACCO HOES, WARREN HOES, WEEDING HOES, WHIRLWIND HOES, CLAM HOOKS, GARBAGE HOOKS, MANURE HOOKS, NURSERYMEN'S HOOKS, PHOSPHATE HOOKS, POTATO HOOKS, REFUSE HOOKS, STONE HOOKS, LAWN COMBS, POKERS, RAKES, ASPHALT RAKES, BRUME RAKES, CLAM RAKES, CURVED TOOTH RAKES, DANDELION RAKES, FLAT BOW RAKES, FLORAL RAKES, GARDEN RAKES, GRAVEL RAKES, LAWN RAKES, LEVEL HEAD RAKES, MALLEABLE RAKES, PINE NEEDLE RAKES, ROAD RAKES, ROUND BOW RAKES, SINGLE SHANK RAKES, STEEL RAKES, STONE RAKES, TAR RAKES, TWO-MAN RAKES, WIRE LAWN RAKES, SEEDLING SETTERS, SCOOPS, SCRAPERS, BARN FLOOR SCRAPERS, CHICKEN HOUSE SCRAPERS, DECK SCRAPERS, FLOOR SCRAPERS, SHIP SCRAPERS, SHOVELS, FIRE SHOVELS, FLORAL SHOVELS, SIDE WALK CLEANERS, SOD LIFTERS, SPADES, CONCRETE SPADES, HAND SPADES, TOOL HANDLES AND PARTS THEREOF, TROWELS, GARDEN TROWELS, NURSERYMEN'S TROWELS, TRANSPLANTING TROWELS, WEEDERS, DANDELION WEEDERS, HAND WEEDERS, ONION WEEDERS.
Claims use since Jan. 20, 1942.

Ser. No. 451,808. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed Mar. 21, 1942.

Kodak

FOR ETCHING KNIVES.
Claims use since Mar. 5, 1941.

Ser. No. 451,863. X-ACTO CRESCENT PRODUCTS CO., INC., New York, N. Y. Filed Mar. 23, 1942.



FOR KNIVES, FOR HOBBY, ARTS, AND CRAFTS.
Claims use since 1938.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 439,918. AMERICAN OPTICAL COMPANY, Southbridge, Mass. Filed Jan. 24, 1941.

COOL-RAY

FOR OPHTHALMIC LENSES, EYE PROTECTION LENSES, BLANKS FOR SUCH LENSES, GOGGLES, AND SUNGLASSES.
Claims use since Jan. 15, 1941.

Ser. No. 444,520. MILTON I. AYERS, Bloomfield, N. J. Filed June 14, 1941. Under 10-year proviso.

JOHN W. AYERS & SON

FOR TABLET, CAPSULE, PILL, OR LIKE UNIT COUNTING DISPENSING AND FEEDING-INTO-CONTAINER APPARATUS AND FIXTURES THEREFOR.
Claims use since June, 1883.

Ser. No. 450,637. AMERICAN BOLEX COMPANY, New York, N. Y. Filed Feb. 2, 1942.

GEARMASTER

FOR TRIPOD HEADS FOR ADJUSTABLY MOUNTING CAMERAS AND OTHER INSTRUMENTS ON SUPPORTS SUCH AS TRIPODS.
Claims use since Nov. 15, 1941.

Ser. No. 451,510. WALLACE W. SMITH, Chicago, Ill. Filed Mar. 9, 1942.

"FLIGHTMASTER"

FOR AIR NAVIGATION CALCULATING DEVICES.
Claims use since Aug. 29, 1941.

Ser. No. 451,830. N. P. BENSON OPTICAL COMPANY, INC., Minneapolis, Minn. Filed Mar. 23, 1942.

BENSAFE

FOR EYEGLASS LENSES AND EYEGLASS EDGE FINISHES.
Claims use since January, 1940.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 451,810. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed Mar. 21, 1942.

Kodak

FOR AIR FILTERS AND FILTER COTTON.
Claims use since Sept. 18, 1941, on air filters; and since Jan. 28, 1942, on filter cotton.

Ser. No. 451,826. REPUBLIC FILTERS, INC., Paterson, N. J. Filed Mar. 21, 1942.

RF

FOR FILTERING APPARATUS.
Claims use since Jan. 2, 1942.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 450,628. GRAND RAPIDS BOOKCASE & CHAIR CO., Hastings, Mich. Filed Jan. 31, 1942.

OAKMASTERS

FOR FURNITURE ADAPTABLE FOR USE IN HOMES, CLUBS, COLLEGE DORMITORIES, HOTELS, AND LIBRARIES—NAMELY, BUFFETS, SIDEBOARDS, DINING CHESTS, DINING SERVERS, CHINA CUPBOARDS, DINING TABLES, DINING CHAIRS, LIVING ROOM SETTEES, DAVENPORTS, LOVE SEATS, OCCASIONAL CHAIRS, LOUNGE CHAIRS, LIVING ROOM BENCHES, BOOKCASES, LIBRARY TABLES, LAMP TABLES, END TABLES, COFFEE TABLES, DESKS, DESK CHAIRS, CONSOLES, MIRRORS, GATE-LEG TABLES, BEDS, DRESSERS, BED-ROOM CHESTS, VANITIES, DRESSING TABLES, NIGHT STANDS, COMMODES, BED-ROOM CHAIRS, BED-ROOM BENCHES, BREAKFAST ROOM TABLES, AND BREAKFAST ROOM CHAIRS.
Claims use since Oct. 1, 1941.

CLASS 33

GLASSWARE

Ser. No. 451,432. ALLIED STORES CORPORATION, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash., and Dey Brothers & Company, Syracuse, N. Y. Filed Mar. 6, 1942.

VISI-COOK

FOR GLASS POTS AND PANS.
Claims use since Feb. 6, 1942.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 444,516. WHEATLEY & WHEATLEY, Kingston, Pa. Filed June 13, 1941.

MARVEL

FOR COAL STOKERS.
Claims use since Sept. 8, 1934.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 451,662. THE WHITEHEAD BROS. RUBBER COMPANY, Trenton, N. J. Filed Mar. 16, 1942.

DURATION

FOR ACID HOSE, AIR HOSE, CHEMICAL HOSE, CREAMERY HOSE, OIL SUCTION AND DISCHARGE HOSE, PNEUMATIC HOSE, STEAM HOSE, SUCTION HOSE, WATER HOSE, WELDING HOSE, WIRE HOSE, AND TRANSMISSION BELTING.
Claims use since Mar. 3, 1942.

CLASS 37

PAPER AND STATIONERY

Ser. No. 451,116. THE PERSONAL PRODUCTS CORPORATION, Milltown, N. J. Filed Feb. 20, 1942.

Loress

FOR FACIAL TISSUES.
Claims use since June 25, 1941.

Ser. No. 451,126. TESTED PAPERS OF AMERICA, INC., Chicago, Ill. Filed Feb. 20, 1942.

Doubldown

FOR TOILET TISSUE.
Claims use since Feb. 1, 1940.

Ser. No. 451,167. EVERSHARP, INC., Chicago, Ill. Filed Feb. 23, 1942.

BUCK PRIVATE

FOR MECHANICAL PENCILS.
Claims use since Dec. 23, 1941.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 448,600. JOANNE CARTER, doing business as Book Match Hobby Club, Rochester, N. Y. Filed Nov. 13, 1941.

National Hobby Bulletin

No claim is made to the word "Bulletin" apart from the mark.
FOR PUBLICATION.
Claims use since July, 1940.

Ser. No. 450,273. CONSUMERS COOPERATIVE ASSOCIATION, North Kansas City, Mo. Filed Jan. 17, 1942.

THE COOPERATIVE CONSUMER

FOR PERIODICAL PUBLISHED MONTHLY.
Claims use since Jan. 1, 1934.

Ser. No. 450,525. WORLDOVER PRESS, Wilton, Conn. Filed Jan. 27, 1942.

WORLDOVER PRESS

The word "Press" is disclaimed apart from the mark.
FOR NEWS RELEASE ISSUED PERIODICALLY.
Claims use since Dec. 20, 1941.

Ser. No. 451,423. TRIBUNE COMPANY, Chicago, Ill. Filed Mar. 5, 1942.

Test Your Facts

FOR NEWSPAPER COLUMN.
Claims use since Mar. 25, 1938.

Ser. No. 451,424. TRIBUNE COMPANY, Chicago, Ill. Filed Mar. 5, 1942.

Lady of the House

FOR NEWSPAPER COLUMN.
Claims use since Aug. 25, 1940.

Ser. No. 451,597. HELEN HARRISON, New York, N. Y. Filed Mar. 13, 1942.

Titter

FOR MONTHLY HUMOROUS PERIODICAL.
Claims use since Mar. 10, 1942.

CLASS 39

CLOTHING

Ser. No. 440,589. GOODMAN & SUSS CLOTHES CORPORATION, New York, N. Y. Filed Feb. 12, 1941.



FOR MEN'S COATS, VESTS, TROUSERS, OVERCOATS, AND TOPCOATS.
Claims use since June, 1933.

Ser. No. 442,336. ROSENFELD-SELTZER-LIPCHITZ, INC., New York, N. Y. Filed Apr. 5, 1941.

Meteor Seal
DYED CONEY

No claim is made to the word "Seal" or "Dyed Coney" apart from the mark.
FOR WOMEN'S AND MISSES' FUR COATS.
Claims use since Feb. 24, 1941.

Ser. No. 444,058. AARON TENENBAUM, doing business as Aarons Manufacturing Co., New York, N. Y. Filed May. 29, 1941.

British Styled Exclusively BY ACECRAFT

No claim is made to the words "British Styled" and "Exclusively By" apart from the mark.
FOR MEN'S AND BOYS' SHORTS; DRESS, NEGLIGEE, AND WORK SHIRTS; SPORTSWEAR—NAMELY, SPORT SHIRTS, SPORT JACKETS AND SPORT COATS.
Claims use since August, 1939.

Ser. No. 449,502. FRANKLIN SIMON & CO., INC., New York, N. Y. Filed Dec. 15, 1941.

dress circle

The word "Dress" is disclaimed apart from the mark.
FOR WOMEN'S AND MISSES' DRESSES.
Claims use since Mar. 5, 1939.

Ser. No. 450,201. ALBERT S. GOLDMAN, doing business as Mutual Sportswear Company, New York, N. Y. Filed Jan. 14, 1942.

Air Fighter

FOR OUTER SHIRTS, SPORTCOATS, LUMBER JACKETS, AND MACKINAWS FOR MEN AND BOYS.
Claims use since Dec. 15, 1941.

Ser. No. 450,311. LEE SPORTSWEAR CO., New York, N. Y. Filed Jan. 19, 1942.

GREASE MONKEY

FOR LADIES', MEN'S, AND CHILDREN'S SLACKS, OVERALLS, SLACK AND BLOUSE COMBINATIONS, PLAYSUITS, PINAFORES, AND DRESSES.
Claims use since Mar. 1, 1941.

Ser. No. 450,402. NEUMANN-ENDLER, INCORPORATED, Danbury, Conn. Filed Jan. 22, 1942.

FF Fair Field Felts

Applicant disclaims the word "Felts" except as shown.
FOR MEN'S, WOMEN'S, AND CHILDREN'S WOOL HATS.
Claims use since Mar. 28, 1941.

Ser. No. 450,537. CONGRESS SHIRT COMPANY, Boston, Mass. Filed Jan. 28, 1942.

STORMSEALED

FOR MEN'S AND BOYS' COATS, JACKETS, OUTER SHIRTS, AND TROUSERS.
Claims use since Dec. 6, 1941.

Ser. No. 450,951. LOUELLA BALLERINO, Los Angeles, Calif. Filed Feb. 14, 1942.

LAZY DAIZY

DENIMS

The word "Denims" is disclaimed apart from the mark.
FOR LADIES' AND CHILDREN'S DRESSES, SLACKS, AND PLAYSUITS.
Claims use since Sept. 19, 1941.

Ser. No. 451,283. BEOL, INC., New York, N. Y. Filed Feb. 28, 1942.

BEOL DE PARIS

The word "Paris" is disclaimed apart from the mark.
FOR LADIES' HOSIERY.
Claims use since Jan. 27, 1942.

Ser. No. 451,327. HARRY TUTTMAN & SON, New York, N. Y. Filed Feb. 28, 1942.



The picture is fanciful.
FOR DRESSES FOR CHILDREN.
Claims use since Feb. 6, 1942.

Ser. No. 451,404. ABRAHAM & STRAUS, INC., Brooklyn, N. Y. Filed Mar. 5, 1942.

"14K"

FOR WOMEN'S AND MISSES' BLOUSES.
Claims use since Jan. 19, 1942.

Ser. No. 451,580. W. SHANHOUSE SONS, INC., Rockford, Ill. Filed Mar. 12, 1942.

"WEATHERWINNERS"

FOR OUTER GARMENTS FOR MEN, WOMEN, AND CHILDREN—NAMELY, LEATHER JACKETS, WOOLEN JACKETS, COTTON JACKETS, LEATHER SPORT COATS, WOOLEN SPORT COATS, COTTON SPORT COATS, WOOLEN MACKINAWS, AND FINGERTIP COATS.
Claims use since Feb. 16, 1942.

Ser. No. 451,593. DAVENPORT HOSIERY MILLS, INC., Chattanooga, Tenn. Filed Mar. 13, 1942.

Humming Bird

FOR HOSIERY.
Claims use since Jan. 28, 1920.

Ser. No. 451,619. BEST'S APPAREL, INC., Seattle, Wash. Filed Mar. 14, 1942.

Furlough Bride

FOR WOMEN'S, LADIES', AND MISSES' DRESSES, BLOUSES, SKIRTS, JACKETS, SUITS, DRESS AND JACKET ENSEMBLES, COATS, COAT AND SUIT ENSEMBLES, AND SWEATERS.
Claims use since December, 1940.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 441,789. SLENDA VOGUE, INC., New York, N. Y. Filed Mar. 21, 1941.

SLENDAVOGUE

FOR ELECTRICAL APPARATUS FOR EXERCISING FOR BODY CONTOUR CONTROL.
Claims use since Jan. 2, 1941.

Ser. No. 442,284. REDUC-O-MATIC INC., New York, N. Y. Filed Apr. 4, 1941.

Reduc-O-Matic

FOR THERAPEUTIC APPARATUS FOR APPLYING MOISTURE LADEN HEATED AIR TO THE HUMAN BODY.
Claims use since Jan. 15, 1941.

Ser. No. 446,249. NAT P. STECKLER, New York, N. Y. Filed Aug. 14, 1941.



No claim is made to the representation of the abdominal supporter apart from the mark. The representation of the male figure is fanciful.
FOR SUSPENSORIES, ABDOMINAL SUPPORTERS, TRUSSES, ATHLETIC SUPPORTERS, SANITARY BELTS, ARCH SUPPORTS, AND KNEE CAP PROTECTORS.
Claims use since July 1, 1936.

Ser. No. 450,742. REVLON PRODUCTS CORPORATION, New N. Y. Filed Feb. 4, 1942.

NIPPIT

FOR CUTICLE NIPPERS AND SCISSORS.
Claims use since Jan. 28, 1942.

Ser. No. 451,040. SANETTE MANUFACTURING CO. INC., New York, N. Y. Filed Feb. 17, 1942.

SANETTE

FOR FIRST AID TREATED STRIPS MADE OF ADHESIVE TAPE, GAUZE PAD, AND COTTON CLOTH BACKING, ADHESIVE PLASTERS, GAUZE BANDAGES MADE OF GAUZE, AND ABSORBENT COTTON.
Claims use since Sept. 1, 1939.

Ser. No. 451,560. JAMES L. YOUNGHUSBAND, Chicago, Ill. Filed Mar. 11, 1942.

LOX

FOR TAMPONS.
Claims use since Apr. 11, 1937.

Ser. No. 451,929. DAVIS & GECK, INC., Brooklyn, N. Y. Filed Mar. 27, 1942.

SURGILON

TRADE MARK

No claim is made to the words "Trade Mark."
FOR SURGICAL LIGATURES AND SUTURES.
Claims use since Feb. 4, 1942.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 451,537. REGINALD W. OKIE, Brooklyn, N. Y. Filed Mar. 10, 1942.

VITAMADE

The word "Ade" is disclaimed except as shown.
FOR NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND EXTRACTS FOR MAKING SAME.
Claims use since Nov. 15, 1941.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 437,977. TOLERTON & WARFIELD CO., Sioux City, Iowa. Filed Nov. 16, 1940. Under 10-year proviso.

FIRST PRIZE

FOR DILL SEED, SOUP MIXTURE, PEPPER, SALT, CANNED FRUITS, CANNED VEGETABLES, CANNED PORK AND BEANS, CANNED HOMINY, CANNED PUMPKIN, CANNED SAUERKRAUT, CANNED SWEET POTATOES, CANNED SUCCOTASH, CANNED PINEAPPLE, CANNED BERRIES, AND CANNED SALMON.
Claims use since Jan. 1, 1895.

Ser. No. 439,697. JOHN L. KELLOGG & COMPANY, Chicago, Ill. Filed Jan. 15, 1941.

WAKE

FOR INSTANT COFFEE.
Claims use since Jan. 10, 1941.

Ser. No. 440,496. DELEGATION OF MEAT PACKERS OF POLAND, INC., New York, N. Y. Filed Feb. 10, 1941.

BATORY

FOR CANNED COOKED HAM.
Claims use since Dec. 14, 1940.

Ser. No. 446,951. NATIONAL FRUIT PRODUCT COMPANY, INC., Winchester, Va. Filed Sept. 10, 1941.

SUNTINT

FOR APPLE CIDER VINEGAR, CANNED APPLES, APPLE SAUCE, APPLE BUTTER, FRUIT JELLIES, AND CANNED VEGETABLES.
Claims use on apple cider vinegar since Mar. 13, 1924; and on canned apples, apple sauce, apple butter, fruit jellies, and canned vegetables since Jan. 1, 1931.

Ser. No. 446,993. COMMANDER-LARABEE MILLING COMPANY, doing business as Buffalo Flour Mills Corporation, Buffalo, N. Y. Filed Sept. 12, 1941.

SENTINEL

FOR WHEAT FLOUR.
Claims use since Feb. 10, 1913.

Ser. No. 448,342. J. E. STANSFIELD, Arvin, Calif. Filed Nov. 1, 1941.

CAL-PRIDE

No claim is made to the outline of a label apart from the mark.
FOR FRESH GRAPES.
Claims use since July 14, 1939.

Ser. No. 449,480. FLOTILL PRODUCTS, INCORPORATED, Stockton, Calif. Filed Dec. 15, 1941.

RED KING

FOR CANNED TOMATOES.
Claims use since Nov. 24, 1941.

Ser. No. 450,157. CENTURY METALCRAFT CORPORATION, Chicago, Ill. Filed Jan. 12, 1942.

Program

FOR CELERY SOUP MIX, FLAVORING BASE—NAMELY, AN ARTIFICIAL MEAT FLAVOR FOR USE ON MEATS, FISH, VEGETABLES AND SALADS, AND IN STEWS, SAUCES, GRAVIES AND SOUPS, NOODLE VEGETABLE SOUP MIX, WITH BEEF EXTRACT, CHICKEN-NOODLE SOUP MIX, SPINACH SOUP MIX, CANNED SOY BEANS, A MEAT SUBSTITUTE, FOOD FLAVORING CRYSTALS, MEAT TENDERIZER, SEASONING SALT, DRIED SKIM MILK, FLOUR MIX—NAMELY, A MIXTURE OF WHEAT, SOY AND BARLEY FLOURS AND DEHYDRATED VEGETABLES, PANCAKE AND WAFFLE MIX, SPAGHETTI, NATURAL WHEAT GERM, TOASTED WHOLE WHEAT CEREAL, OATMEAL, SOY AND WHEAT FLAKES, SOY FLOUR, AND ASSORTED CAKE MIXES.
Claims use since Dec. 15, 1941.

Ser. No. 450,540. HYGRADE FOOD PRODUCTS CORPORATION, New York, N. Y. Filed Jan. 28, 1942.

"Feast"

Applicant is the owner of trade-mark registration No. 170,210.
FOR CHEESE.
Claims use since Jan. 17, 1942.

Ser. No. 450,770. MUTUAL PRODUCTS COMPANY, Minneapolis, Minn. Filed Feb. 5, 1942.

Mutual

FOR STOCK FOOD AND CALF PELLETS CONTAINING MILK.
Claims use since Mar. 1, 1919.

Ser. No. 451,288. BURRY BISCUIT CORPORATION, Elizabeth, N. J. Filed Feb. 28, 1942.

Snifties

FOR COCKTAIL CRACKERS.
Claims use since Nov. 21, 1941.

Ser. No. 451,594. DULUTH UNIVERSAL MILLING CO., Duluth, Minn. Filed Mar. 13, 1942.

FARM GOLD

FOR WHEAT FLOUR.
Claims use since Jan. 6, 1937.

Ser. No. 451,654. PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn. Filed Mar. 16, 1942.

WOOLEX

FOR PREPARED MIXTURE FOR THE MAKING OF CAKES, ROLLS, DOUGHNUTS, BREAD AND OTHER PASTRY PRODUCTS.
Claims use since Dec. 23, 1941.

CLASS 47

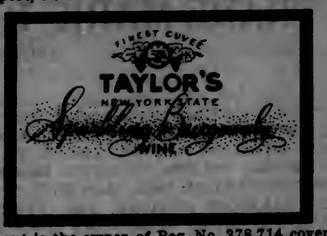
WINES

Ser. No. 446,793. CUCAMONGA WINERY, Cucamonga, Calif. Filed Sept. 5, 1941.



Applicant disclaims the words "Vinum Bonum Est" and "Look For This Signature" apart from the mark. "Jos. J. Ettor" comprises the signature of applicant's president.
FOR WINES.
Claims use since June 30, 1941.

Ser. No. 451,043. THE TAYLOR WINE COMPANY, Hammondsport, N. Y. Filed Feb. 17, 1942.



Applicant is the owner of Reg. No. 378,714 covering the mark "Taylor's" effected under the 10-year proviso. No claim is made to the wording "Finest Cuvee," "New York State" or "Sparkling Burgundy Wine."
FOR WINE.
Claims use since Sept. 16, 1941.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 441,047. CALIFORNIA GROWERS WINERIES, Cutler, Calif. Filed Feb. 27, 1941.



The drawing is lined for gold. No claim is made to the representation of the grapes apart from the mark.
FOR BRANDY.
Claims use since June 22, 1940.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MAY 5, 1942

394,872. WATCHES AND CLOCKS. LONGINES-WITTNAUER WATCH CO. INC., New York, N. Y.
Filed November 18, 1939. Serial No. 425,796. PUBLISHED FEBRUARY 24, 1942. Class 27.

394,873. GARMENT SHAPING AND STRETCHING MACHINES, SHIRT SPREADERS FOR GARMENT SHAPING MACHINES, AND GARMENT MEASURING AND SHAPER-DRIER APPARATUS FOR DRY CLEANERS. JOHN R. FITZGERALD, doing business as Tripak Machinery Service, Harlingen, Tex.
Filed January 18, 1940. Serial No. 427,578. PUBLISHED FEBRUARY 24, 1942. Class 50.

394,874. POLE LINE HARDWARE—NAMELY, UPSWEEP STREET HOOD BRACKETS, TELEPHONE POLE TOP BRACKETS, ETC. HUBBARD AND COMPANY, Everyville, Calif.
Filed May 21, 1940. Serial No. 432,126. PUBLISHED FEBRUARY 24, 1942. Class 13.

394,875. COFFER. R. BIERHAUS & SONS, Vincennes, Ind.
Filed June 21, 1940. Serial No. 433,244. PUBLISHED SEPTEMBER 10, 1940. Class 46.

394,876. FOOD SEASONING CONTAINING GROUND CHILI PEPPERS, CUMIN SEED, OREGANO, AND GARLIC. MARGARET C. BURDEN, doing business as Mrs. M. Burden and Grandma's Spanish Pepper Co., Berkeley, Calif.
Filed July 29, 1940. Serial No. 434,492. PUBLISHED FEBRUARY 24, 1942. Class 46.

394,877. CANNED FRUITS AND VEGETABLES; CRUSHED FRUIT; DICED PEELS; PIE AND CREAM PUFF FILLINGS; ETC. R. C. WILLIAMS & COMPANY, INC., New York, N. Y.
Filed November 9, 1940. Serial No. 437,746. PUBLISHED FEBRUARY 24, 1942. Class 46.

394,878. MINERAL OIL USED IN THE TREATMENT OF CONSTIPATION. PHILADELPHIA MAGNESIA CO., Philadelphia, Pa.
Filed December 24, 1940. Serial No. 439,174. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,879. FRUIT PRODUCTS—NAMELY, MARMALADES AND JELLIES AND JELLIED MAPLE SYRUP PACKED IN PAPER CUPS AND CARTONS. NATIONAL FRUIT PRESERVES, INC., Jacksonville, Fla.
Filed December 27, 1940. Serial No. 439,236. PUBLISHED FEBRUARY 24, 1942. Class 46.

394,880. TOILET PREPARATIONS—NAMELY, LOTIONS FOR THE SKIN, SKIN CREAMS, AND ASTRINGENTS. CAMPANA CORPORATION, Batavia, Ill.
Filed January 17, 1941. Serial No. 439,748. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,881. WATCHES AND PARTS THEREOF. MONTRES ROLEX S. A. (ROLEX UHREN A. G.) (ROLEX WATCH CO. LTD.), Geneva, Switzerland.
Filed February 24, 1941. Serial No. 440,945. PUBLISHED FEBRUARY 24, 1942. Class 27.

394,882. STORAGE BATTERIES. READING BATTERIES INC., Temple, Pa., assignor to Samuel Mufson and Harry Mufson, doing business as Fordham Tire Co., New York, N. Y.
Filed March 25, 1941. Serial No. 441,923. PUBLISHED FEBRUARY 24, 1942. Class 21.

394,883. FILES, FILE SEGMENTS, FILE BANDS, SAWS AND SAW BANDS. THE DOALL CO., INC., Des Plaines, Ill.
Filed May 1, 1941. Serial No. 443,157. PUBLISHED FEBRUARY 17, 1942. Class 23.

394,884. FAT SPLITTING REAGENTS AND SAPONIFIERS. EMERY INDUSTRIES, INC., Cincinnati, Ohio.
Filed May 12, 1941. Serial No. 443,489. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,885. FAT SPLITTING REAGENTS AND SAPONIFIERS. EMERY INDUSTRIES, INC., Cincinnati, Ohio.
Filed May 12, 1941. Serial No. 443,492. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,886. LAXATIVES, SKIN AND RECTAL OINTMENTS, AND HEALING SALVES. PETER VOSS, doing business as Pindus Chemical Co., Washington, D. C.
Filed May 14, 1941. Serial No. 443,589. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,887. BEAUTY CREAMS, COLD CREAMS, REFRESHING CREAMS, SKIN WHITENER IN LIQUID AND SOLID FORMS, ETC. DE MARSAY, INC., New York, N. Y.
Filed May 23, 1941. Serial No. 443,839. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,888. COMPOUNDS USED IN THE TREATMENT OF FURS—NAMELY, DYE FIXATIVE, DYE MODIFIER, FUR RENEWER (BLEACH), FUR DYE STUFFS, FUR LEATHER DYE, FUR LEATHER SOFTENER (CHEMICAL), ETC. DERNBURG FUR COMPANY, INC., Chicago, Ill.
Filed May 26, 1941. Serial No. 443,925. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,889. BAND AND ORCHESTRA MUSICAL INSTRUMENTS—NAMELY, CORNETS, TRUMPETS, TROMBONES, HORNS, ETC. LYONS BAND INSTRUMENT COMPANY, Chicago, Ill.
Filed June 9, 1941. Serial No. 444,348. PUBLISHED FEBRUARY 24, 1942. Class 36.

394,890. PERFUMERY. DAVID MAS DE RODA Y BERNAL, Barcelona, Spain.
Filed June 13, 1941. Serial No. 444,488. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,891. CARTOONS PUBLISHED IN A SERIES. ALL-AMERICAN COMICS, INC., New York, N. Y.
Filed July 2, 1941. Serial No. 445,078. PUBLISHED FEBRUARY 24, 1942. Class 38.

394,892. FISH LINES. NEWTON LINE COMPANY, INC., Homer, N. Y.
Filed July 10, 1941. Serial No. 445,240. PUBLISHED FEBRUARY 24, 1942. Class 22.

394,893. PHARMACEUTICAL PREPARATION—NAMELY, VITAMIN CAPSULES. THE G. F. HARVEY COMPANY, Saratoga Springs, N. Y.
Filed July 12, 1941. Serial No. 445,288. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,894. PUBLICATIONS—NAMELY, HOROSCOPES, ASTROLOGICAL PREDICTIONS AND ASTROLOGICAL GUIDES ISSUED FROM TIME TO TIME. BRUCE KING, doing business as Zolar, New York, N. Y.
Filed July 24, 1941. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 445,606. PUBLISHED FEBRUARY 24, 1942. Class 38.

394,895. MAGAZINES AND CIRCULARS. THE SAFETY LEGION OF AMERICA, Berne, Ind.
Filed July 29, 1941. Serial No. 445,750. PUBLISHED FEBRUARY 24, 1942. Class 38.

394,896. ELECTRICAL APPARATUS—NAMELY, MAGNET CORES, RELAY CORES. GENERAL MOTORS CORPORATION, Detroit, Mich.
Filed August 2, 1941. Serial No. 445,893. PUBLISHED FEBRUARY 24, 1942. Class 21.

394,897. BLANK FORMS—NAMELY, ACCOUNT CARDS FOR PERIODICAL SAVINGS ACCOUNTS. RAND MCNALLY & COMPANY, Chicago, Ill.
Filed August 2, 1941. Serial No. 445,900. PUBLISHED FEBRUARY 24, 1942. Class 37.

394,898. BLANK FORMS—NAMELY, GIFT CERTIFICATES SOLD AS SUCH. HART, SCHAFFNER & MARX, Chicago, Ill.
Filed August 4, 1941. Serial No. 445,939. PUBLISHED FEBRUARY 24, 1942. Class 37.

394,899. STRINGS OF BEADS FOR PERSONAL ADORNMENT, MADE OF PLASTIC MATERIALS, GLASS, AND SEMI-PRECIOUS STONES. GEORGE J. HECHT, New York, N. Y.
Filed August 4, 1941. Serial No. 445,942. PUBLISHED FEBRUARY 24, 1942. Class 28.

394,900. DOLLS AND PRE-FORMED PARTS TO BE ASSEMBLED INTO FINISHED DOLLS, SUCH PARTS INCLUDING DOLLS' HEADS, ETC. GIRDNER PROVOST, doing business as Girdner Provost Co., New York, N. Y.
Filed August 18, 1941. Serial No. 446,335. PUBLISHED FEBRUARY 24, 1942. Class 22.

394,901. ROPES MADE FROM MANILA, HEMP, JUTE, SISAL, COTTON, AND SYNTHETIC MATERIALS, STRING, AND TWINE. BRITISH ROPES LIMITED, Doncaster, England.
Filed August 20, 1941. Serial No. 446,384. PUBLISHED FEBRUARY 24, 1942. Class 7.

394,902. STRINGS OF BEADS FOR PERSONAL ADORNMENT, MADE OF PLASTIC MATERIALS, GLASS, AND SEMI-PRECIOUS STONES. GEORGE J. HECHT, New York, N. Y.
Filed August 27, 1941. Serial No. 446,570. PUBLISHED FEBRUARY 24, 1942. Class 28.

394,903. RUBBING MIXTURE FOR MECHANICAL STIMULATION OF THE SKIN. SAL-T-RUB COMPANY, Minneapolis, Minn.
Filed August 28, 1941. Serial No. 446,636. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,904. MARBLE GAMES. A. B. CHANCE COMPANY, Centralia, Mo.
Filed September 5, 1941. Serial No. 446,828. PUBLISHED FEBRUARY 24, 1942. Class 22.

394,905. LOUD SPEAKERS, EACH SAID LOUD SPEAKER INCLUDING AN ELECTRO-ACOUSTIC TRANSDUCER AND A HORN. JENSEN RADIO MANUFACTURING COMPANY, Chicago, Ill.
Filed September 8, 1941. Serial No. 446,877. PUBLISHED FEBRUARY 17, 1942. Class 21.

394,906. LOUD SPEAKERS, EACH SAID LOUD SPEAKER INCLUDING AN ELECTRO-ACOUSTIC TRANSDUCER DRIVER UNIT, AND PARTS THEREOF. JENSEN RADIO MANUFACTURING COMPANY, Chicago, Ill.
Filed September 8, 1941. Serial No. 446,878. PUBLISHED FEBRUARY 17, 1942. Class 21.

394,907. FRESH APPLES. SMITH & NELSON, INC., Tonasket, Wash.
Filed September 22, 1941. Serial No. 447,256. PUBLISHED FEBRUARY 24, 1942. Class 46.

394,908. CIGAR AND CIGARETTE BOXES, TRAYS AND STANDS. ROBERT W. IRWIN COMPANY, Grand Rapids, Mich.
Filed October 3, 1941. Serial No. 447,513. PUBLISHED FEBRUARY 24, 1942. Class 8.

394,909. ELECTRIC LAMPS—NAMELY, FLOOR AND TABLE LAMPS. ROBERT W. IRWIN COMPANY, Grand Rapids, Mich.
Filed October 3, 1941. Serial No. 447,515. PUBLISHED FEBRUARY 24, 1942. Class 21.

394,910. CERAMIC BREAKFAST, LUNCHEON, AND DINNER DISHES. ROBERT W. IRWIN COMPANY, Grand Rapids, Mich.
Filed October 3, 1941. Serial No. 447,516. PUBLISHED FEBRUARY 24, 1942. Class 30.

394,911. BEDROOM FURNITURE—NAMELY, BEDS, MATTRESSES, CHAIRS, TABLES, BUREAUS, CHIFFONIERS, ETC. ROBERT W. IRWIN COMPANY, Grand Rapids, Mich.
Filed October 3, 1941. Serial No. 447,517. PUBLISHED FEBRUARY 24, 1942. Class 32.

394,912. TABLE, BAR, AND COOKING GLASSWARE, INCLUDING DRINKING GLASSES AND TUMBLERS. ROBERT W. IRWIN COMPANY, Grand Rapids, Mich.
Filed October 3, 1941. Serial No. 447,518. PUBLISHED FEBRUARY 24, 1942. Class 33.

394,913. WALL PICTURES, PAINTINGS, AND PRINTS. ROBERT W. IRWIN COMPANY, Grand Rapids, Mich.
Filed October 3, 1941. Serial No. 447,519. PUBLISHED FEBRUARY 24, 1942. Class 38.

394,914. CLOSET ACCESSORIES—NAMELY, INDIVIDUAL HAT STANDS AND GARMENT HANGERS, STATUETTES AND PLASTER PLAQUES, WATERPROOF FABRIC FOR USE AS SHOWER CURTAINS. ROBERT W. IRWIN COMPANY, Grand Rapids, Mich.
Filed October 3, 1941. Serial No. 447,521. PUBLISHED FEBRUARY 24, 1942. Class 50.

394,915. PHOTOGRAPHIC CHEMICALS. RAYGRAM CORPORATION, New York, N. Y.
Filed October 10, 1941. Serial No. 447,669. PUBLISHED FEBRUARY 17, 1935. Class 6.

394,916. PHOTOGRAPHIC DEVELOPERS AND FIXER HARDENERS. RAYGRAM CORPORATION, New York, N. Y.
Filed October 10, 1941. Serial No. 447,671. PUBLISHED FEBRUARY 17, 1935. Class 6.

394,917. HAND RAKES. NORMAN E. BROOKE, Washington, D. C.
Filed October 15, 1941. Serial No. 447,793. PUBLISHED FEBRUARY 17, 1942. Class 23.

394,918. ANESTHETIZING AND NERVE BLOCKING PREPARATIONS. ARTHUR E. SMITH, Los Angeles, Calif.
Filed October 15, 1941. Serial No. 447,829. PUBLISHED FEBRUARY 17, 1935. Class 6.

394,919. ADDING AND CALCULATING MACHINES. VICTOR ADDING MACHINE CO., Chicago, Ill.
Filed October 16, 1941. Serial No. 447,853. PUBLISHED FEBRUARY 24, 1942. Class 26.

394,920. DEOXIDIZING, DEGASIFYING, AND DESULPHURIZING AGENTS USED IN THE METALLURGICAL ART TO PRODUCE GAS FREE AND OXIDE FREE ALLOYS. ISRAEL W. WILENCHIK, doing business as Metallurgical Products Co., Philadelphia, Pa.
Filed October 23, 1941. Serial No. 448,068. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,921. DIRIGIBLE ELECTRIC LIGHT. CASCO PRODUCTS CORPORATION, doing business as Perfection Motor Products Company, Bridgeport, Conn.
Filed October 24, 1941. Serial No. 448,072. PUBLISHED FEBRUARY 17, 1942. Class 21.

394,922. MAGAZINE PUBLICATION. DETECTIVE COMICS, INC., New York, N. Y.
Filed October 24, 1941. Serial No. 448,076. PUBLISHED FEBRUARY 24, 1942. Class 38.

394,923. MAGAZINE PUBLICATION. DETECTIVE COMICS, INC., New York, N. Y.
Filed October 25, 1941. Serial No. 448,096. PUBLISHED FEBRUARY 24, 1942. Class 38.

394,924. PLASTIC MOLDING COMPOUNDS IN POWDERED FORM. GODCHAUX SUGARS, INC., New Orleans, La.
Filed October 27, 1941. Serial No. 448,135. PUBLISHED FEBRUARY 24, 1942. Class 1.

394,925. ALL PURPOSE FABRIC MENDER, SUCH ALL-PURPOSE FABRIC MENDER SERVING THE PURPOSE OF REPAIR BY ADHESION OF VARIOUS FABRICS AND THE MENDING INGREDIENT BEING A CHEMICAL PREPARATION. FREDA L. JOHNSON, doing business as Johnson Products Company, New York, N. Y.
Filed October 28, 1941. Serial No. 448,193. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,926. ELECTRIC REGULATORS FOR REGULATING THE EXCITATION OF DYNAMOELECTRIC MACHINES. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa.
Filed October 28, 1941. Serial No. 448,213. PUBLISHED FEBRUARY 24, 1942. Class 21.

394,927. CIRCULATING OIL, WOOD, COAL, AND GAS HEATERS. GAMBLE STORMS INCORPORATED, Minneapolis, Minn.
Filed November 8, 1941. Serial No. 448,473. PUBLISHED FEBRUARY 24, 1942. Class 34.

394,928. DAILY NEWSPAPER. THE NEWSPAPER PM, Inc., Brooklyn, N. Y., assignor to Marshall Field, Lloyd's Neck, N. Y.
Filed November 12, 1941. Serial No. 448,576. PUBLISHED FEBRUARY 24, 1942. Class 38.

394,929. BEER. STERLING BREWERS, INC., Evansville, Ind.
Filed November 13, 1941. Serial No. 448,626. PUBLISHED FEBRUARY 17, 1942. Class 48.

394,930. HAND HELD ELECTRIC MOTOR DEVICE FOR DRILLING, GRINDING, ABRADING, AND POLISHING TOOLS. CASCO PRODUCTS CORPORATION, Bridgeport, Conn.
Filed November 15, 1941. Serial No. 448,668. PUBLISHED FEBRUARY 17, 1942. Class 21.

394,931. DEGUMMING, DESLUDGING, MOTOR CLEANING PREPARATION. HAWLING REFINING CORP., Port Chester, N. Y.
Filed November 15, 1941. Serial No. 448,680. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,932. METAL BRAKES, WIRE BENDERS, AND METAL SHEARS. ALBERT T. O'NEIL, doing business as O'Neil-Irwin Manufacturing Co., Minneapolis, Minn.
Filed November 17, 1941. Serial No. 448,704. PUBLISHED FEBRUARY 17, 1942. Class 23.

394,933. CORDIALS. BARDINET, LTD., New York, N. Y.
Filed November 19, 1941. Serial No. 448,751. PUBLISHED FEBRUARY 24, 1942. Class 49.

394,934. RESIN-IMPREGNATED NEEDLED FELTED VEGETABLE FIBER MATERIAL IN SHEET FORM OR IN SHAPES CUT THEREFROM FOR MOLDING. COLUMBIAN HOPS COMPANY, Auburn, N. Y.
Filed November 19, 1941. Serial No. 448,754. PUBLISHED FEBRUARY 24, 1942. Class 50.

394,935. WINES. W. A. TAYLOR & CO., INC., New York, N. Y.
Filed November 21, 1941. Serial No. 448,806. PUBLISHED FEBRUARY 24, 1942. Class 47.

394,936. LADIES' SHOES MADE OF LEATHER, FABRIC, AND COMBINATION OF THESE MATERIALS. I. MILLER & SONS, INC., Long Island City, N. Y.
Filed November 22, 1941. Serial No. 448,834. PUBLISHED FEBRUARY 24, 1942. Class 39.

394,937. YOUNG MEN'S AND BOYS' CLOTHING—NAMELY, HATS, SHOES MADE OF LEATHER, FABRIC, OR RUBBER AND COMBINATIONS THEREOF, BELTS IN THE NATURE OF GARMENT SUPPORTERS, SUSPENDERS, ETC. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed November 22, 1941. Serial No. 448,837. PUBLISHED FEBRUARY 24, 1942. Class 39.

394,938. NEWSPAPER COLUMN. THE SPORTING NEWS PUBLISHING COMPANY, doing business as Charles C. Spink & Son, St. Louis, Mo.
Filed November 24, 1941. Serial No. 448,879. PUBLISHED FEBRUARY 17, 1942. Class 38.

394,939. CELERY. MUCKLAND CELERY COMPANY, Sarasota, Fla.
Filed November 25, 1941. Serial No. 448,918. PUBLISHED FEBRUARY 24, 1942. Class 46.

394,940. CANDY. THE CURTISS CANDY COMPANY, Chicago, Ill.
Filed November 26, 1941. Serial No. 448,936. PUBLISHED FEBRUARY 24, 1942. Class 46.

394,941. WHISKEY. ED. PHILLIPS & SONS COMPANY, Minneapolis, Minn.
Filed November 27, 1941. Serial No. 448,965. PUBLISHED FEBRUARY 24, 1942. Class 49.

394,942. HEADING FOR A NEWSPAPER COLUMN. TRIBUNE COMPANY, Chicago, Ill.
Filed November 27, 1941. Serial No. 448,991. PUBLISHED FEBRUARY 17, 1942. Class 38.

394,943. CALCIUM DISPHOSPHATE PREPARATION CONTAINING VITAMINS, INTENDED FOR USE IN NUTRITIONAL DISTURBANCES. WILLIAM R. WARNER & CO., INC., New York, N. Y.
Filed November 27, 1941. Serial No. 448,993. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,944. DIURETIC ANTACID ALKALINE COMPOUND. CLIFFORD F. WILCOX, doing business as The Chemade Company, Los Angeles, Calif.
Filed December 1, 1941. Serial No. 449,088. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,945. NECKLACES AND BRACELETS, FINGER RINGS, EARRINGS, JEWELRY CLIPS, BROOCHES, LOCKETS, ETC. COHN & ROSENBERGER, INC., New York, N. Y.
Filed December 2, 1941. Serial No. 449,091. PUBLISHED FEBRUARY 24, 1942. Class 28.

394,946. MALT IN SOLID CONDITION. FIRST CARAMEL MALTING CORPORATION, Paterson, N. J.
Filed December 2, 1941. Serial No. 449,095. PUBLISHED FEBRUARY 24, 1942. Class 46.

394,947. MALT IN SOLID CONDITION. FIRST CARAMEL MALTING CORPORATION, Paterson, N. J.
Filed December 2, 1941. Serial No. 449,096. PUBLISHED FEBRUARY 24, 1942. Class 46.

394,948. MALT IN SOLID CONDITION. FIRST CARAMEL MALTING CORPORATION, Paterson, N. J.
Filed December 2, 1941. Serial No. 449,097. PUBLISHED FEBRUARY 24, 1942. Class 46.

394,949. LIQUEFYING CREAM. POND'S EXTRACT COMPANY, New York, N. Y.
Filed December 2, 1941. Serial No. 449,102. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,950. ORNAMENTAL SACHETED LINGERIE CASES OR ENVELOPES. BOURJOIS, INC., New York, N. Y.
Filed December 3, 1941. Serial No. 449,119. PUBLISHED FEBRUARY 24, 1942. Class 40.

394,951. CANNED FRUITS AND VEGETABLES. GENERAL GROCERY CO., Phoenix, Ariz.
Filed December 3, 1941. Serial No. 449,132. PUBLISHED FEBRUARY 24, 1942. Class 46.

394,952. IMPACT TESTERS. TINIUS OLSEN TESTING MACHINE CO., Philadelphia, Pa.
Filed December 5, 1941. Serial No. 449,219. PUBLISHED FEBRUARY 24, 1942. Class 26.

394,953. VITAMIN TABLETS. FOREST CITY PRODUCTS, INC., Cleveland, Ohio.
Filed December 6, 1941. Serial No. 449,227. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,954. VITAMIN TABLETS. FOREST CITY PRODUCTS, INC., Cleveland, Ohio.
Filed December 6, 1941. Serial No. 449,228. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,955. MAGAZINE PUBLISHED PERIODICALLY. MAX C. GAINES, New York, N. Y.
Filed December 6, 1941. Serial No. 449,229. PUBLISHED FEBRUARY 24, 1942. Class 38.

394,956. FRESH CITRUS FRUITS. SEQUOIA CITRUS ASSOCIATION, Lemon Cove, Calif.
Filed December 6, 1941. Serial No. 449,240. PUBLISHED FEBRUARY 24, 1942. Class 46.

394,957. WHITE OILS USED IN THE PREPARATION OF COSMETICS, PHARMACEUTICAL, AND MEDICINAL PRODUCTS, AND PETROLEUM ETHER. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y.
Filed December 6, 1941. Serial No. 449,241. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,958. PREPARATIONS USED IN AND FOR THE TREATMENT AND TO RELIEVE THE IRRITATION AND PAIN OF BUNIONS, BURNS, ETC. THE KNOX COMPANY, Los Angeles, Calif.
Filed December 8, 1941. Serial No. 449,281. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,959. COUGH BALSAM. THE PINEX CO., Fort Wayne, Ind.
Filed December 8, 1941. Serial No. 449,293. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,960. CROSS-SECTIONALLY V-SHAPED, FLAT, AND ROUND TRANSMISSION, ELEVATING, AND CONVEYING BELTING. TON TEX CORPORATION, Grand Rapids, Mich.
Filed December 8, 1941. Serial No. 449,306. PUBLISHED FEBRUARY 24, 1942. Class 35.

394,961. NECKTIES. BOTANY WORSTED MILLS, Passaic, N. J.
Filed December 9, 1941. Serial No. 449,313. PUBLISHED FEBRUARY 24, 1942. Class 39.

394,962. LADIES' HANDBAGS. BELT MODES, INC., New York, N. Y.
Filed December 10, 1941. Serial No. 449,336. PUBLISHED FEBRUARY 24, 1942. Class 3.

394,963. LIPSTICK, PERFUME, ROUGE, AND FACE POWDER. THE GEORGE W. LUFT COMPANY, INC., Long Island City, N. Y.
Filed December 10, 1941. Serial No. 449,349. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,964. FACE CREAMS. HELENA RUBINSTEIN, INC., New York, N. Y.
Filed December 10, 1941. Serial No. 449,356. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,965. PREPARATIONS FOR CORRECTION OF METABOLIC DEFICIENCIES, WHETHER FOR ORAL (INCLUDING USE IN TABLETS AND CAPSULES) OR PARENTERAL ADMINISTRATION, INCLUDING VITAMIN CONTAINING PREPARATIONS, INCLUDING VITAMIN B COMPLEX. SHARP & DOHME, INCORPORATED, Philadelphia, Pa.
Filed December 10 1941. Serial No. 449,358. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,966. PHARMACEUTICAL PREPARATIONS FOR USE AS PRESSOR AGENTS, VASOCONSTRICTORS, BRONCHODILATORS, ETC. SHARP & DOHME, INCORPORATED, Philadelphia, Pa.
Filed December 10, 1941. Serial No. 449,360. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,967. PERFUMES, TOILET WATERS, AND COSMETIC CREAMS. LENTHERIC, INCORPORATED, New York, N. Y.
Filed December 11, 1941. Serial No. 449,379. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,968. PERFUMES AND TOILET WATERS. PARFUMS SCHIAPARELLI, INC., New York, N. Y.
Filed December 11, 1941. Serial No. 449,384. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,969. MACHINE FOR SPRAYING LIQUIDS IN THE PREPARATION OF MIRRORS. PEACOCK LABORATORIES, INC., Philadelphia, Pa.
Filed December 11, 1941. Serial No. 449,393. PUBLISHED FEBRUARY 17, 1942. Class 23.

394,970. FOOD PRODUCT CONSISTING OF A LAYER OF ICE CREAM BETWEEN TWO SUGAR WAFERS. ABBOTTS DAIRIES, INCORPORATED, Philadelphia, Pa.
Filed December 12, 1941. Serial No. 449,402. PUBLISHED FEBRUARY 24, 1942. Class 46.

394,971. HERBAL COMPOUND FOR USE IN THE CARE OF THE SCALP AND HAIR. DRUMLIN, INC., New York, N. Y.
Filed December 12, 1941. Serial No. 449,411. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,972. MACHINE TOOLS, MILLING MACHINES, PARTS THEREOF AND ACCESSORIES THEREFOR—NAMELY, ARBORS, CUTTERS, COLLETS, CENTERING PLUGS, ADAPTERS, AND THE LIKE. KEARNEY & TRECKER CORPORATION, West Allis, Wis.
Filed December 12, 1941. Serial No. 449,422. PUBLISHED FEBRUARY 17, 1942. Class 23.

394,973. CAPSULES OR LIQUID CONTAINING A PLURALITY OF VITAMINS A, B_1, B_2, C, D, B_6, G, PANTOTHENIC ACID, AND NICOTINIC ACID. MCKESSON & ROBBINS, INC., New York, N. Y.
Filed December 13, 1941. Serial No. 449,461. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,974. LIQUEUR. JOHN DE KUYPER & SON, INC., New York, N. Y.
Filed December 16, 1941. Serial No. 449,517. PUBLISHED FEBRUARY 24, 1942. Class 49.

394,975. WATCHES. HOROWITZ & SON, INC., New York, N. Y.
Filed December 16, 1941. Serial No. 449,520. PUBLISHED FEBRUARY 24, 1942. Class 27.

394,976. FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, ETC. COTY, INC., New York, N. Y.
Filed December 17, 1941. Serial No. 449,543. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,977. FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, ETC. COTY, INC., New York, N. Y.
Filed December 17, 1941. Serial No. 449,544. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,978. BOOK PAPER. KIMBERLY-CLARK CORPORATION, Neenah, Wis.
Filed December 17, 1941. Serial No. 449,551. PUBLISHED FEBRUARY 24, 1942. Class 37.

394,979. TELEGRAPH FACSIMILE TRANSMITTING AND RECORDING APPARATUS. THE WESTERN UNION TELEGRAPH COMPANY, New York, N. Y.
Filed December 17, 1941. Serial No. 449,562. PUBLISHED FEBRUARY 17, 1942. Class 21.

394,980. MEN'S, WOMEN'S, MISSES', AND CHILDREN'S SWEATERS, SUITS, BATHING SUITS, SCARFS, MUFFLERS, ETC. S. AUGSTEIN & CO., New York and College Point, N. Y.
Filed December 18, 1941. Serial No. 449,565. PUBLISHED FEBRUARY 24, 1942. Class 39.

394,981. INCANDESCENT AND FLUORESCENT LAMPS. DURO-TEST CORPORATION, North Bergen, N. J.
Filed December 18, 1941. Serial No. 449,569. PUBLISHED FEBRUARY 24, 1942. Class 21.

394,982. OIL DRESSING FOR HAIR. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla.
Filed December 18, 1941. Serial No. 449,585. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,983. CIGARS, CIGARETTES, AND SMOKING AND CHEWING TOBACCO. PHILIP R. MYERS, New York, N. Y.
Filed December 19, 1941. Serial No. 449,623. PUBLISHED FEBRUARY 24, 1942. Class 17.

394,984. EMULSION OF MINERAL OIL WITH THIAMIN CHLORIDE. DETAIL PRODUCTS COMPANY, St. Louis, Mo.
Filed December 20, 1941. Serial No. 449,642. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,985. MEDICINAL PREPARATION FOR USE IN THE TREATMENT OF CONSTIPATION. WILLIAM R. WARNER & CO., INC., New York, N. Y.
Filed December 20, 1941. Serial No. 449,656. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,986. MOTH DESTROYER PREPARATION. THE R. H. BOGLE COMPANY, Alexandria, Va.
Filed December 22, 1941. Serial No. 449,664. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,987. FLUORESCENT LAMPS AND LIGHTING FIXTURES AND APPARATUS THEREOF. ELECTRO MANUFACTURING COMPANY, Chicago, Ill.
Filed December 22, 1941. Serial No. 449,673. PUBLISHED FEBRUARY 24, 1942. Class 21.

394,988. CANDY. PANGBURN COMPANY, INC., Fort Worth, Tex.
Filed December 22, 1941. Serial No. 449,696. PUBLISHED FEBRUARY 24, 1942. Class 46.

394,989. MIXTURE OF ENZYMES FOR ANALYTICAL AND INDUSTRIAL PURPOSE. WALLERSTEIN COMPANY, INC., New York, N. Y.
Filed December 22, 1941. Serial No. 449,708. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,990. CALCIUM HYDROSULFIDE. CALCIUM SULPHIDE CORPORATION, Damascus, Va.
Filed December 26, 1941. Serial No. 449,760. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,991. FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ETC. COTY, INC., New York, N. Y.
Filed December 26, 1941. Serial No. 449,766. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,992. ELECTRIC AND GAS WATER HEATERS. A. O. SMITH CORPORATION, Milwaukee, Wis.
Filed December 26, 1941. Serial No. 449,784. PUBLISHED FEBRUARY 24, 1942. Class 34.

394,993. ELECTRIC AND GASS WATER HEATERS. A. O. SMITH CORPORATION, Milwaukee, Wis.
Filed December 26, 1941. Serial No. 449,785. PUBLISHED FEBRUARY 24, 1942. Class 34.

394,994. ELECTRICALLY OPERATED LAUNDRY WASHING MACHINES AND IRONERS, PARTS THEREOF, ETC. RCA MANUFACTURING COMPANY, INC., Camden, N. J.
Filed December 27, 1941. Serial No. 449,806. PUBLISHED FEBRUARY 24, 1942. Class 24.

394,995. WINES. F. PIRSONE & SONS, Garfield, N. J.
Filed January 6, 1942. Serial No. 450,022. PUBLISHED FEBRUARY 24, 1942. Class 47.

394,996. ENAMEL ADAPTED FOR COATING FINGER NAILS, AND LIPSTICKS. REVLON PRODUCTS CORPORATION, New York, N. Y.
Filed January 6, 1942. Serial No. 450,025. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,997. ENAMEL ADAPTED FOR COATING FINGER NAILS, AND LIPSTICKS. REVLON PRODUCTS CORPORATION, New York, N. Y.
Filed January 6, 1942. Serial No. 450,026. PUBLISHED FEBRUARY 17, 1942. Class 6.

394,998. APPLICATORS. ORTHO PRODUCTS INC., Linden, N. J.
Filed January 9, 1942. Serial No. 450,111. PUBLISHED FEBRUARY 24, 1942. Class 44.

394,999. FOOD FLAVORING COMPOSITION CONTAINING VEGETABLE EXTRACTS AND VEGETABLE PROTEIN DERIVATIVE MATERIAL. STANDARD BRANDS INCORPORATED, New York, N. Y.
Filed January 13, 1942. Serial No. 450,187. PUBLISHED FEBRUARY 24, 1942. Class 46.

395,000. DIRECT RECORDING OSCILLOGRAPH UNITS, ELECTROMETERS FOR USE AS PARTS OF MEASURING DEVICES, VIBRATION PICK-UPS FOR USE AS A PART OF A MEASURING DEVICE, HEADPHONES FOR USE WITH MEASURING AND TESTING EQUIPMENT, AND MICROPHONES FOR USE WITH MEASURING AND TESTING EQUIPMENT. THE BRUSH DEVELOPMENT COMPANY, Cleveland, Ohio.
Filed January 21, 1941. Serial No. 439,800. PUBLISHED DECEMBER 30, 1941. Class 26.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

395,001. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE NESTLE-LEMUR CO., New York, N. Y. Filed May 18, 1939. Serial No. 419,559.

COLOR · TOUCH

FOR HAIR DYES.
Claims use since Jan. 24, 1939.

395,002. (CLASS 17. TOBACCO PRODUCTS.) HARRY E. BAHLS, doing business as Windsor Tobacco Company, Buffalo, N. Y. Filed July 25, 1939. Serial No. 421,922.

Essley's

FOR TOBACCO—NAMELY, A TOBACCO MIXTURE INTENDED FOR SMOKING IN A PIPE.
Claims use since July 1, 1939.

395,003. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PATRICK EARL DEVINE, doing business as Devine's Remedies, Chicago, Ill. Filed Aug. 13, 1940. Serial No. 434,929.

DEVINE'S

FOR OINTMENT FOR THE TREATMENT OF TIRED FEET, CHAFING, SUNBURN, OR SUPERFICIAL BURNS, PREPARATIONS FOR THE TREATMENT OF CORNS, NASAL INHALANT, AND RUBBING OIL FOR CONGESTION IN RESPIRATORY PASSAGES.
Claims use since June 1, 1930.

395,004. (CLASS 2. RECEPTACLES.) S. E. OVERTON COMPANY, South Haven, Mich. Filed Nov. 30, 1940. Serial No. 438,403.

OVERTON
corkwood

FOR COMPRESSED GROUND CORK HOUSEHOLD SERVING TRAYS.
Claims use since Aug. 1, 1940.

395,005. (CLASS 37. PAPER AND STATIONERY.) WATERBURY TACK COMPANY, Shelton, Conn. Filed Dec. 3, 1940. Serial No. 438,495.

"NEED-L-POINT" THUMB TACKS

FOR THUMB TACKS.
Claims use since Aug. 15, 1940.

395,006. (CLASS 38. PRINTS AND PUBLICATIONS.) MANTON PUBLISHING COMPANY, INC., New York, N. Y. Filed Dec. 24, 1940. Serial No. 439,165.

FEATURE
DETECTIVE
CASES

FOR A PERIODICAL.
Claims use since Dec. 3, 1940.

395,007. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BALDWIN LOCOMOTIVE WORKS, Eddystone, Pa. Filed Jan. 30, 1941. Serial No. 440,109.

SOUTHWARK

FOR MACHINERY, INCLUDING PRESSES FOR BALING, BELTING, BRIQUETTING, BROACHING, CRIMPING, DEHYDRATING, DIE SINKING, DRAWING, EXTRACTION, EXTRUSION, FIBRE PRESSING, FLANGING, FLARING, FORCING, FORGING, FORMING, HOT PLATE PRESSING, JOGGLING, MOLDING, SCARFING, VENEERING, WHEEL PRESSING; FOR FORMING PRODUCTS OF BAKELITE, CELLULOID, RUBBER, THERMO PLASTICS; AND FOR FORMING LAMINATED GLASS, LEATHER PRODUCTS, SOLID CO_2, VENEER, WALL BOARD; POWER TOOLS FOR BENDING, STRAIGHTENING, SHEARING, PUNCHING, RIVETING, ROLLING, STRETCHING, AND PLANING, HYDRAULIC POWER SUPPLY EQUIPMENT INCLUDING ACCUMULATORS, INTENSIFIERS AND PUMPS, AND ENGINES.
Claims use since 1915.

395,008. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN STORES COMPANY, Philadelphia, Pa. Filed Feb. 3, 1941. Serial No. 440,230.

Virginia Lee

FOR MINT CANDY.
Claims use since Dec. 13, 1940.

395,009. (CLASS 45. BEVERAGES, NONALCOHOLIC.) SEMINOLE FLAVOR COMPANY, Chattanooga, Tenn. Filed Feb. 10, 1941. Serial No. 440,532.

DOUBLE
LEMONADE

FOR CARBONATED, NONALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES, SOLD AS SOFT DRINKS AND FLAVORING THEREFOR.
Claims use since Feb. 4, 1941.

395,010. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DOME CHEMICALS INC., New York, N. Y. Filed Feb. 24, 1941. Serial No. 440,923.

FUNGI-STICK

FOR MEDICINES AND PHARMACEUTICAL PREPARATIONS FOR THE TREATMENT OF THE SKIN AND SCALP.
Claims use since Feb. 15, 1941.

395,011. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DOME CHEMICALS INC., New York, N. Y. Filed Feb. 24, 1941. Serial No. 440,924.

SKIN FILM

FOR MEDICINES AND PHARMACEUTICAL PREPARATIONS FOR THE TREATMENT OF THE SKIN AND SCALP.
Claims use since Feb. 15, 1941.

395,012. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) FISHER SCIENTIFIC COMPANY, Pittsburgh, Pa. Filed Mar. 4, 1941. Serial No. 441,199.

RINGAUZE

FOR COMBINED METAL SUPPORTING RING AND HEAT DISSIPATING GAUZE EMPLOYED TO SUPPORT GLASSWARE OVER BURNERS.
Claims use since Mar. 1, 1941.

395,013. (CLASS 37. PAPER AND STATIONERY.) REMINGTON RAND INC., Buffalo, N. Y. Filed Mar. 8, 1941. Serial No. 441,367.

KOMPAKT

FOR PAPER FASTENERS.
Claims use since July 15, 1936.

395,014. (CLASS 37. PAPER AND STATIONERY.) REMINGTON RAND INC., Buffalo, N. Y. Filed Mar. 8, 1941. Serial No. 441,373.

TWINPAKT

FOR PAPER FASTENERS.
Claims use since Aug. 15, 1939.

395,015. (CLASS 44. DENTAL, MEDICAL AND SURGICAL APPLIANCES.) ARTHUR E. SMITH, Los Angeles, Calif. Filed Mar. 11, 1941. Serial No. 441,450.

FRESH

FOR HYPODERMIC SYRINGES, HYPODERMIC NEEDLES, ANAESTHESIA INSTRUMENTS, AND ADAPTERS FOR SYRINGES.
Claims use since Feb. 3, 1941.

395,016. (CLASS 47. WINES.) WALTER J. MULLIGAN, doing business as W. J. Mulligan & Co., San Francisco, Calif. Filed Mar. 13, 1941. Serial No. 441,519.

ARNO

FOR VERMOUTH.
Claims use since Mar. 8, 1941.

395,017. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) BILTWELL FURS, INC., New York, N. Y. Filed Mar. 24, 1941. Serial No. 441,852.

BEAVERTONE
LASKIN MOUTON

FOR FUR SKINS.
Claims use since Mar. 7, 1941.

395,018. (CLASS 38. PRINTS AND PUBLICATIONS.) THOMAS P. SCANLAN, Chicago, Ill. Filed Mar. 24, 1941. Serial No. 441,879.

MACHINERY MODERNIZATION

FOR A TITLE FOR A MAGAZINE SECTION.
Claims use since Mar. 6, 1941.

395,019. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WESTON INTERNATIONAL CORP., New York, N. Y. Filed Apr. 19, 1941. Serial No. 442,763.

KAR-KEE-LITE

FOR THEATRICAL AND UTILITY FLASHLIGHTS.
Claims use since January, 1938.

395,020. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FREDRIC H. JOHNSON, doing business as Spice Islands Company, San Francisco, Calif. Filed May 23, 1941. Serial No. 443,847.

SPICE ISLANDS

FOR FOOD PRODUCTS—NAMELY, RED WINE VINEGAR FLAVORED WITH GARLIC, RED WINE VINEGAR FLAVORED WITH ESCHALOT, AND RED WINE VINEGAR FLAVORED WITH TERRAGON.
Claims use since Mar. 17, 1941.

395,021. (CLASS 38. PRINTS AND PUBLICATIONS.) THE VIRGINIA BREEDER, INC., Warrenton, Va. Filed June 19, 1941. Serial No. 444,693.

The EASTERN BREEDER

FOR A MONTHLY MAGAZINE.
Claims use since Feb. 1, 1941.

395,022. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MILTON BRADLEY COMPANY, Springfield, Mass. Filed July 16, 1941. Serial No. 445,377.

U-stikum

FOR PAPER CUT-OUTS FOR MAKING COMPOSITE PICTURES.
Claims use since Mar. 10, 1941.

395,023. (CLASS 37. PAPER AND STATIONERY.) FRANK HANDFIELD, Montreal, Quebec, Canada. Filed July 24, 1941. Serial No. 445,605.

FOLKARD

FOR BLANK CORRESPONDENCE CARDS.
Claims use since Sept. 12, 1940.

395,024. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TEXAS STAR FLOUR MILLS, Galveston, Tex. Filed Sept. 4, 1941. Serial No. 446,787.

SAHARA

TEXAS STAR FLOUR MILLS

FOR WHEAT FLOUR.
Claims use since Nov. 4, 1940.

395,025. (CLASS 25. LOCKS AND SAFES.) THE H. B. IVES COMPANY, New Haven, Conn. Filed Oct. 4, 1941. Serial No. 447,544.

"Non-Mortise"

FOR DOOR LATCHES.
Claims use since Sept. 15, 1940.

395,026. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MICHAEL RAINONE, doing business as Florentine Products Co., Brooklyn, N. Y. Filed Oct. 7, 1941. Serial No. 447,599.

FLORENTINE

FOR LIQUID SCALP CREAM HAVING USE AS A HAIR TONIC, SCALP CREAM, SKIN CREAM, AND FACE LOTION.
Claims use since Jan. 1, 1926.

395,027. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) SCHUR-FIT FOOT APPLIANCES, New York, N. Y. Filed Oct. 27, 1941. Serial No. 448,173.

SCHUR-FIT
FOOT APPLIANCES

FOR ARCH SUPPORTS.
Claims use since Feb. 1, 1939.

395,028. (CLASS 39. CLOTHING.) ALLIED STORES CORPORATION, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash. Filed Dec. 8, 1941. Serial No. 449,245.

Fortified Foot

FOR HOSIERY.
Claims use since Aug. 15, 1940.

395,029. (CLASS 37. PAPER AND STATIONERY.) ELMER R. KRUEGER, doing business as Paper Art Products, Indianapolis, Ind. Filed Dec. 15, 1941. Serial No. 449,490.

Paper Linen

FOR PAPER MATS, PAPER NAPKINS AND PAPER TABLE CLOTHS.
Claims use since 1933.

395,030. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PIONEER MANUFACTURING COMPANY, Cleveland, Ohio. Filed Jan. 19, 1942. Serial No. 450,316.



FOR CHEMICAL FOR MELTING ICE.
Claims use since Sept. 1, 1937.

395,031. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDWARD C. LANG, Buffalo, N. Y. Filed Mar. 12, 1942. Serial No. 451,570.

LANG'S
ORANGE MILK CHOCOLATE

FOR CANDY.
Claims use since 1925.

TRADE-MARK REGISTRATIONS RENEWED

131,596. **STANNOXYL.** MEDICINAL PREPARATIONS FOR THE TREATMENT OF STAPHYLOCOCIQUE MALADIES AND FOR ERUPTIONS CAUSED BY THE SAME. Registered May 18, 1920. JOSEPH ROBERT. Renewed May 18, 1940, to Societe Anonyme des Laboratoires Robert et Carriere, Paris, France, a corporation of France, successor.

150,045. **CLENSEL.** A LIQUID COMPOUND FOR TOILET USE. Registered December 27, 1921. JOHN PATERSON & CO., LTD., Glasgow, Scotland. Renewed December 27, 1941, to Clensel Products, Incorporated, Wilmington, Del., a corporation of Delaware, assignee.

150,046. **CLENSEL.** LIQUID INSECTICIDES. Registered December 27, 1921. JOHN PATERSON & CO., LTD., Glasgow, Scotland. Renewed December 27, 1941, to Clensel Products, Incorporated, Wilmington, Del., a corporation of Delaware, assignee.

153,080. **CRISS-CROSS.** BOILER-TUBE CLEANERS. Registered March 7, 1922. WORCESTER BRUSH AND SCRAPER COMPANY, Worcester, Mass., a corporation of Massachusetts. Renewed March 7, 1942.

153,698. **AN-VEL-O.** A PREPARATION USED IN WASHING THE HAIR. Registered March 28, 1922. THOMAS E. DILLEY, doing business as The Anvelo Company, Fort Wayne, Ind. Renewed March 28, 1942.

153,732. **KATIGEN.** DYES AND DYESTUFFS. Registered March 28, 1922. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Renewed March 28, 1942, to General Dyestuff Corporation, New York, N. Y., a corporation of New York, assignee by mesne assignments.

153,733. **RHODULIN.** DYES AND DYESTUFFS. Registered March 28, 1922. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Renewed March 28, 1942, to General Dyestuff Corporation, New York, N. Y., a corporation of New York, assignee by mesne assignments.

153,805. **FEMO-HERB.** FEMALE TONIC. Registered March 28, 1922. THE NATIONAL HERB MEDICINE COMPANY OF MISSOURI, St. Louis, Mo., a corporation of Missouri. Renewed March 28, 1942.

153,845. **S AND REPRESENTATION OF A CROSS.** IRON AND STEEL BARS, BANDS, AND WIRE. Registered March 28, 1922. SANDVIKENS JERNVERKS AKTIEBOLAG, Sandviken, Sweden, a corporation of Sweden. Renewed March 28, 1942.

153,851. **R. G. DUN.** CIGARS. Registered March 28, 1922. BERNARD SCHWARTZ & SONS. Renewed March 28, 1942, to The Deisel-Wemmer-Gilbert Corporation, Detroit, Mich., a corporation of Ohio, assignee.

153,878. **NOC-OUT.** HOSE CLAMPS. Registered March 28, 1922. BEN. A. TETZLAFF, Chicago, Ill. Renewed March 28, 1942, to Benjamin A. Tetzlaff, Riverside, Ill.

153,958. **STUBBY.** A FISHING ROD AND REEL. Registered April 4, 1922. THE AMERICAN DISPLAY COMPANY, Dayton, Ohio, a corporation of Ohio. Renewed April 4, 1942.

154,245. **LADY ANNE.** TOILET CREAMS, ASTRINGENT LOTIONS, SKIN-CLEANSING LOTION, AND MUSCLE OIL. Registered April 11, 1922. ANNE T. CLAPPER. Renewed April 11, 1942, to Nettie Geary, Pittsburgh, Pa., assignee.

155,491. **EMANELO.** CIGARS, CHEROOTS, CIGARETTES, SMOKING AND CHEWING TOBACCO. Registered May 30, 1922. MOSS & LOWENHAUPT CIGAR CO., St. Louis, Mo. Renewed May 30, 1942, to D. Emil Klein Co., Inc., New York, N. Y., a corporation of New York, assignee.

154,652. **PARAQUEENS.** HOSIERY. Registered April 18, 1922. PARAMOUNT KNITTING COMPANY, Chicago, Ill. Renewed April 18, 1942, to Bear Brand Hosiery Co., Kankakee and Chicago, Ill., a corporation of Illinois, assignee.

155,787. **NOR-CO-HOL.** BATHING LINIMENT FOR EXTERNAL USE ONLY. Registered June 6, 1922. THE NORWICH PHARMACAL COMPANY, Norwich, N. Y., a corporation of New York. Renewed June 6, 1942.

154,805. **DIXIE MAID.** CANE SIRUP. Registered May 9, 1922. RODDENBERY BROS., Cairo, Ga., a firm. Renewed May 9, 1942.

155,818. **TORO.** SULPHUR HAVING INSECTICIDAL PROPERTIES. Registered June 6, 1922. SAN FRANCISCO SULPHUR CO., San Francisco, Calif., a corporation of California. Renewed June 6, 1942.

155,845. **PEN-E-TRA-TOR.** PREPARATIONS FOR CERTAIN NAMED PURPOSES. Registered June 6, 1922. DR. J. E. STREICKER, Chattanooga, Tenn. Renewed June 6, 1942, to Plough, Inc., Memphis, Tenn., a corporation of Delaware, assignee.

155,872. **RED COMET.** COAL. Registered June 6, 1922. WISCONSIN STEEL COMPANY. Renewed June 6, 1942, to International Harvester Company, Chicago, Ill., a corporation of New Jersey, assignee.

156,077. **WAYAGAMACK.** WOOD PULP, CHEMICAL PULP, SULPHATE AND SULPHITE PULP, SODA PULP, AND EASY-BLEACHING PULP. Registered June 13, 1922. WAYAGAMACK PULP & PAPER CO., LIMITED, Three Rivers, Quebec, Canada. Renewed June 13, 1942, to Consolidated Paper Corporation Limited, Montreal, Canada, a corporation of the Dominion of Canada, assignee.

156,352. **G.D.M.** CANNED FRUITS AND VEGETABLES. Registered June 20, 1922. G. D. MILLIGAN GROCER COMPANY, Springfield, Mo., a corporation of Missouri. Renewed June 20, 1942.

156,388. **GLADIO.** COTTON PIECE GOODS. Registered June 20, 1922. J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y. Renewed June 20, 1942, to J. C. Penney Company, New York, N. Y., a corporation of Delaware, assignee.

156,405. **GOLDEN RULE.** CHAMBRAY AND CHEVIOTS IN THE PIECE. Registered June 20, 1922. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va. Renewed June 20, 1942, to Riverside & Dan River Cotton Mills, Inc., Danville, Va., and New York, N. Y., a corporation of Virginia

156,432. **A.A.** COTTON BATTING, PARTICULARLY GLAZED COTTON WADDING. Registered June 20, 1922. THE STEARNS & FOSTER COMPANY, Lockland, Ohio, a corporation of Ohio. Renewed June 20, 1942.

156,909. **COMPASS. MEN'S WORK SHIRTS, BOYS' WORK SHIRTS, BOYS' BLOUSES AND PLAY SUITS.** Registered July 18, 1922. J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y. Renewed July 18, 1942, to J. C. Penney Company, New York, N. Y., a corporation of Delaware, assignee.

157,102. **RAMADA.** CLOTHS OF WOOL MADE BY THE YARD OR IN THE PIECE. Registered July 25, 1922. WILLIAM HOLLINS & COMPANY, LIMITED, London and Mansfield, England. Renewed July 25, 1942, to William Hollins & Company, Limited, Nottingham, England, a corporation of the United Kingdom of Great Britain and Northern Ireland.

157,113. **POLL-PARROT.** SHOES FOR MEN, WOMEN, AND CHILDREN, MADE OF LEATHER, RUBBER, FABRIC, OR THE COMBINATION THEREOF. Registered July 25, 1922. INTERNATIONAL SHOE CO., St. Louis, Mo., a corporation of Delaware. Renewed July 25, 1942.

157,172. **TROJAN.** CANNED FRUITS, VEGETABLES, SCALE AND SHELL FISH, AND VINEGAR. Registered July 25, 1922. J. C. PERRY & COMPANY, INC., Indianapolis, Ind., a corporation of Indiana. Renewed July 25, 1942.

157,400. **VAUXHALL.** AUTOMOBILES AND MOTOR CYCLES. Registered August 1, 1922. VAUXHALL MOTORS, LIMITED, Luton, England, a corporation of the United Kingdom of Great Britain and Northern Ireland. Renewed August 1, 1942.

157,689. **VICTORY.** SHOE LACINGS, CORSET LACINGS, GALLOONS, AND BRAIDS WHICH ARE MADE OF COTTON. Registered August 15, 1922. INTERNATIONAL BRAID COMPANY, Providence, R. I., a corporation of Massachusetts. Renewed August 15, 1942.

157,696. **THE FOOT SAVER.** MEN'S, WOMEN'S AND CHILDREN'S SHOES OF LEATHER, FABRIC, AND COMBINED FABRIC AND LEATHER. Registered August 15, 1922. THE JULIAN & KOKENGE CO., Cincinnati, Ohio. Renewed August 15, 1942, to The Julian & Kokenge Co., Columbus, Ohio, a corporation of Ohio.

157,726. **NORWICH PERCOLATE.** MONTHLY PUBLICATION. Registered August 15, 1922. THE NORWICH PHARMACAL COMPANY, Norwich, N. Y., a corporation of New York. Renewed August 15, 1942.

158,113. **S IN A TRIANGLE AND CROSS DESIGN.** SULPHUR AND SULPHUR INOCULATED WITH BACTERIA. Registered August 22, 1922. TEXAS GULF SULPHUR COMPANY, New York, N. Y., a corporation of Texas. Renewed August 22, 1942.

158,385. **FYREDROP.** GASOLINE. Registered September 5, 1922. W. H. BARBER COMPANY, Minneapolis, Minn., a corporation of Delaware. Renewed September 5, 1942.

158,645. **NUMBER 3.** PROTECTIVE PAINT COATINGS. Registered September 12, 1922. DAMPNEY COMPANY OF AMERICA, Boston, Mass., a corporation of Massachusetts. Renewed September 12, 1942.

158,707. **VICTRIX.** STEEL IN BLOCKS AND IN BARS AND FORGINGS FOR ALL KINDS OF MACHINES, ARTISANS' TOOLS, CUTTING TOOLS, AND SPRINGS. Registered September 12, 1922. POLDINA HUT, TOVÁRNA NA KELÍMKOVOU OCEL (CRUCIBLE STEEL WORKS), also trading as Poldihütte Tiegelguszstahlfabrik, assignor to the firm Poldi Steel Corporation of America, Prague and Kladno, Czechoslovakia. Renewed September 12, 1942, to Poldihütte Aktiengesellschaft, Prague, Czechoslovakia, an incorporated company of Czechoslovakia, assignee by mesne assignments.

158,763. **OKOMA.** WHEAT FLOUR. Registered September 12, 1922. OKLAHOMA CITY MILL & ELEVATOR CO., Oklahoma, Okla. Renewed September 12, 1942, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware, assignee.

158,782. **BADGER.** CERTAIN NAMED CORDAGE. Registered September 12, 1922. JOHN RAUSCHENBERGER COMPANY, Milwaukee, Wis., a corporation of Wisconsin. Renewed September 12, 1942.

158,834. **S IN A TRIANGLE AND CROSS DESIGN.** SULPHUR AND SULPHUR INOCULATED WITH BACTERIA. Registered September 12, 1922. TEXAS GULF SULPHUR COMPANY, New York, N. Y., a corporation of Texas. Renewed September 12, 1942.

158,950. **ARCH-COMFORT.** LEATHER BOOTS AND SHOES. Registered September 19, 1922. WM. FILENE'S SONS COMPANY, Boston, Mass., a corporation of Massachusetts. Renewed September 19, 1942.

159,004. **DEGRAH.** ENAMEL PAINTS AND VARNISH. Registered September 19, 1922. KEYSTONE VARNISH COMPANY, Brooklyn, N. Y., a corporation of New York. Renewed September 19, 1942.

159,115. **ANCHOR.** MATTRESSES. Registered September 19, 1922. THE STEARNS & FOSTER COMPANY, Lockland, Ohio, a corporation of Ohio. Renewed September 19, 1942.

159,117. **PARAGON.** MATTRESSES. Registered September 19, 1922. THE STEARNS & FOSTER COMPANY, Lockland, Ohio, a corporation of Ohio. Renewed September 19, 1942.

159,118. **MISSION.** MATTRESSES. Registered September 19, 1922. THE STEARNS & FOSTER COMPANY, Lockland, Ohio, a corporation of Ohio. Renewed September 19, 1942.

159,119. **EARL.** MATTRESSES. Registered September 19, 1922. THE STEARNS & FOSTER COMPANY, Lockland, Ohio, a corporation of Ohio. Renewed September 19, 1942.

159,149. **THE FARMER.** PERIODICALS. Registered September 19, 1922. THE WEBB PUBLISHING COMPANY, St. Paul, Minn., a corporation of Delaware. Renewed September 19, 1942.

159,264. **FRE-FLO.** WELDING BARS AND RODS. Registered September 26, 1922. THE ATLAS FOUNDRY COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed September 26, 1942.

159,324. **THIS CZ-ONS.** CERTAIN NAMED FOOD PRODUCTS. Registered September 26, 1922. BARUCH CERF, Milwaukee, Wis., and Chicago, Ill. Renewed September 26, 1942, to I. Epstein & Sons, Inc., Newark, N. J., a corporation of New Jersey, assignee by mesne assignments.

159,353. **ENCORE.** WRITING PAPER AND LEDGER. Registered September 26, 1922. FOX RIVER PAPER COMPANY. Renewed September 26, 1942, to Fox River Paper Corporation, Appleton, Wis., a corporation of Wisconsin, assignee.

159,355. **BLUE GRASS.** HORSE FEED, CATTLE AND DAIRY FEED, POULTRY FEED, AND HOG FEED. Registered September 26, 1922. HENRY FRUECHTENICHT, Louisville, Ky. Renewed September 26, 1942.

159,382. **ILCO.** LOCKS AND KEYS. Registered September 26, 1922. INDEPENDENT LOCK & KEY MANUFACTURING CO. INC., Leominster, Mass. Renewed September 26, 1942, to Independent Lock Company, Fitchburg, Mass., a corporation of Massachusetts, by change of name.

159,429. **ADAMANT.** BABBITT, BEARING, AND ANTI-FRICTION METALS AND ALLOYS. Registered September 26, 1922. MAGNOLIA METAL COMPANY, New York, N. Y. Renewed September 26, 1942, to Magnolia Metal Company, Elizabeth, N. J., a corporation of West Virginia

159,451. **GOLDEN GIFT.** COFFEE. Registered September 26, 1922. NASH COFFEE COMPANY. Renewed September 26, 1942, to Nash-Finch Company, Minneapolis, Minn., a corporation of Delaware, successor.

159,494. **TROPICPALM.** SOAP. Registered September 26, 1922. THE REMMERS SOAP COMPANY, Cincinnati, Ohio. Renewed September 26, 1942, to The Hewitt Soap Company, Inc., Dayton, Ohio, a corporation of Ohio, assignee by mesne assignments.

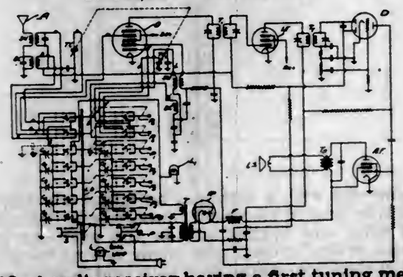
159,531. **GOLDEN LIGHT.** WHEAT FLOUR. Registered September 26, 1922. THE SOUTHWESTERN MILLING COMPANY, INC., New York, N. Y., and Kansas City, Mo. Renewed September 26, 1942, to Standard Milling Company, New York, N. Y., a corporation of Delaware, assignee.

159,561. **TREFZ.** BEER AND NEAR BEER. Registered September 26, 1922. UNITED STATES BREWING COMPANY. Renewed September 26, 1942, to G. Krueger Brewing Company, Newark, N. J., a corporation of Delaware, assignee.

159,577. **ARCADIA.** BREAD. Registered September 26, 1922. WARD BAKING COMPANY, New York, N. Y., a corporation of New York. Renewed September 26, 1942.

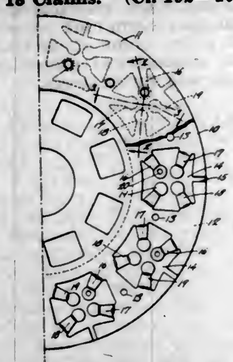
159,578. **MID-DAY.** BREAD. Registered September 26, 1922. WARD BAKING COMPANY, New York, N. Y., a corporation of New York. Renewed September 26, 1942.

22,087
TUNING CONTROL DEVICE FOR RADIO RECEIVERS AND THE LIKE
Robert B. Albright, Philadelphia, Pa., assignor, by mesne assignments, to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Original No. 2,211,041, dated August 13, 1940, Serial No. 201,821, April 13, 1938. Application for reissue April 18, 1941, Serial No. 389,258
17 Claims. (Cl. 250—40)



12. A radio receiver having a first tuning means for tuning said receiver to wave signals in different frequency bands, a second tuning means for tuning said receiver to any one of a plurality of predetermined signals, said first tuning means including a first group of selectable manually operable elements, said second tuning means including a second group of selectable manually operable elements, and electric circuit means for automatically rendering one of said tuning means inoperative whenever the other tuning means is actuated.

22,088
CLUTCH
Charles William Higgs, London, England, assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Original No. 2,194,793, dated March 26, 1940, Serial No. 145,249, May 28, 1937. Application for reissue April 23, 1941, Serial No. 389,896. In Great Britain August 1, 1936
18 Claims. (Cl. 192—107)



13. A multi-stage cushioned clutch plate comprising a pair of facings, a hub, a disc mounted on said hub, a plurality of circumferentially spaced groups of resilient tongues carried by the peripheral region of said disc, and biased laterally to coact with at least one of said facings, each group of tongues defining a radial gap extending the full radial depth of the group and branched circumferentially to provide a plurality of radially spaced symmetrical pairs of circumferentially opposed tongues some of which are biased for an initial stage of cushioning and others of which are biased for a secondary stage of cushioning.

22,089
HIGH MELTING POINT CHOCOLATE AND METHOD OF PREPARING THE SAME
Frederic H. Penn, Dallas, Tex.
No Drawing. Original No. 2,244,569, dated June 3, 1941, Serial No. 370,722, December 18, 1940. Application for reissue June 30, 1941, Serial No. 400,574
9 Claims. (Cl. 99—23)

1. A process for increasing the melting point of chocolate comprising hydrogenating chocolate at a temperature of from about 100° C. to about 150° C.

22,090
PROCESS OF MAKING FELTED MINERAL FIBER
Edward R. Powell, North Plainfield, N. J., assignor, by mesne assignments, to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Original No. 1,899,056, dated February 28, 1933, Serial No. 301,850, August 24, 1928. Reissue No. 19,627, dated June 25, 1935, Serial No. 8,511, February 27, 1935. This application for reissue May 10, 1941, Serial No. 392,987
15 Claims. (Cl. 154—28)



1. In a process for the manufacture of matted material containing mineral fibers and a binder, the improvement which consists in melting a mineral material, disintegrating the melted material and projecting the same into a chamber at high velocity to form fibers, treating the fibers while hot with a hardenable binding material, collecting said fibres on a moving support to form a mat of suitable thickness, and subjecting the matted material to the action of heat and a fluid medium treatment to stiffen and harden the binder.

22,091
SHEATHING SYSTEM
Nicholas Rippen, Los Angeles, Calif.
Original No. 2,238,289, dated April 15, 1941, Serial No. 606,620, April 21, 1932. Application for reissue June 11, 1941, Serial No. 397,630
13 Claims. (Cl. 114—84)

11. The method of securing an area of through-perforated sheathing to a metal area comprising the steps of laying the perforated sheathing on the metal area and maintaining

the same through the remaining steps in the position in which the same is desired to be secured, inserting in each perforation the selected one of a pair of coacting fastening members, placing a heat-resisting material between said inserted member and the walls of the through-perforation in said sheathing to insulate the



sheathing from the harmfulness of heat during the welding, welding an end of said inserted member to the sheathed metal area as the same is positioned in said perforation, and finally securing the position-laid sheathing to the metal area by a coaction of said pair of fastening members to cause a securing effect in at least a portion of the perimeter of said perforation.

22,092
FUSE
Alwin G. Steinmayer, Shorewood, Wis., assignor to Line Material Company, South Milwaukee, Wis., a corporation of Delaware
Original No. 1,952,635, dated March 27, 1934, Serial No. 537,267, May 14, 1931. Application for reissue March 9, 1942, Serial No. 434,023
20 Claims. (Cl. 200—127)

9. A fuse link comprising a fusible section, a relatively rigid section, a flexible conducting section, and a helical spring coaxial with said relatively rigid section, said spring and said relatively rigid section being coextensive for at least a portion of their respective lengths, said relatively rigid section comprising an insulating tube and said fusible section being in electrical connection



at one end with a terminal adjacent one end of said tube and in electrical connection at its other end with said flexible section and with one end of said helical spring, said spring having its other end in electrical connection with said flexible conducting section adjacent the other end of said insulating tube, and arranged to bias a portion of the fusible section away from said terminal.

PLANT PATENTS

GRANTED MAY 5, 1942

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

513
ROSE PLANT
Roy L. Byrum, Richmond, Ind., assignor to Joseph H. Hill Company, Richmond, Ind., a corporation of Indiana
Application October 29, 1941, Serial No. 417,045
1 Claim. (Cl. 47—61)

A new and distinct variety of hybrid tea rose plant, characterized as to novelty by its form and long canes, by the stiffy erect peduncle, and great productivity, and by the long bud and vivid coloring of its flowers, substantially as shown and described.

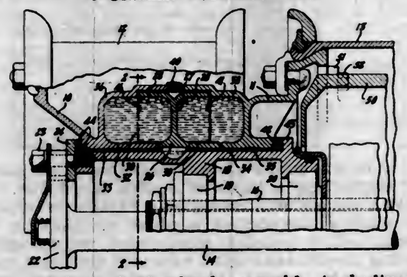
514
SAINTPAULIA PLANT
Frank Brockner, Milwaukee, Wis., assignor to Holton & Hunkel Co., Milwaukee, Wis., a corporation of Wisconsin
Application January 2, 1942, Serial No. 425,415
1 Claim. (Cl. 47—60)

A new and ornamental variety of Saintpaulia plant with features in combination substantially as shown and described, characterized particularly by the unusual warm pink color of its blossoms, brilliant yellow color of its stamens, fullness of bloom, symmetrical proportions of the plant as a whole, and sturdy stems.

PATENTS

GRANTED MAY 5, 1942

2,281,541
DUAL WHEEL ASSEMBLY
Charles S. Ash, Milford, Mich.
Application September 12, 1940, Serial No. 356,413
8 Claims. (Cl. 180—22)



1. A driven dual wheel assembly including in combination a driving sleeve, a pair of side by side, independently rotatable wheels mounted on said sleeve, a pair of runners extending towards each other from their respective wheels, sealing means between the adjacent edges of the runners, and impeller means mounted on said sleeve to be driven thereby and positioned between the wheels and within the runners.

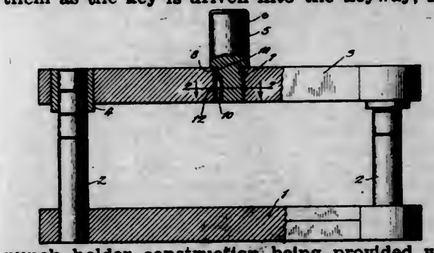
2,281,542
ELECTRICAL CONDUCTOR
William T. Barrans, Towson, and Paul M. Cole, Dundalk, Md., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application March 3, 1939, Serial No. 259,508
15 Claims. (Cl. 174—69)



1. A retractile electric cord comprising a plurality of helically coiled conductors, one of the conductors forming convolutions of greater diameter than another conductor, said conductors being substantially unstressed in the retracted state of the cord, and a fabric jacket covering said conductors.

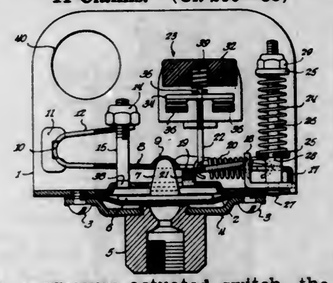
2,281,543
PUNCH HOLDER SHANK
Emil A. Baumbach, River Forest, Ill.
Application April 21, 1941, Serial No. 389,574
2 Claims. (Cl. 164—118)

1. A punch holder construction comprising a metal plate having a flat, machined, upper face, leader pin openings therethrough for alignment with leader pins, said construction comprising also a shank fastened to said plate for securing the punch holder in position, said plate having a screw-threaded opening therethrough, said shank having a reduced threaded extension screwed into said threaded opening and having a machined shoulder adjacent the upper end of said threaded extension snugly engaging the machined upper face of said plate, said extension having a longitudinally extending keyway in its side and a key driven into said keyway, said key having an edge portion engageable with the threads of the threaded opening for mutilating them as the key is driven into the keyway, said



punch holder construction being provided with an annular recess adjacent said machined shoulder to provide clearance for the threads adjacent the shoulder.

2,281,544
PRESSURE SWITCH
Lyle Beeman, Milwaukee, and Edwin W. F. Hanke, Whitefish Bay, Wis., assignors to Allen-Bradley Company, Milwaukee, Wis., a corporation of Wisconsin
Application May 8, 1939, Serial No. 272,388
11 Claims. (Cl. 200—83)

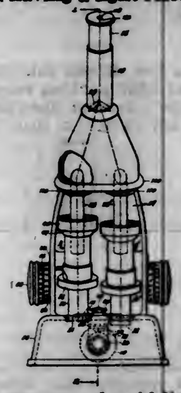


1. In a pressure-actuated switch, the combination comprising a U-shaped frame member, a diaphragm and diaphragm chamber secured to the exterior of the bottom of said frame member, a presser-foot engaging said diaphragm provided with a thruster extending into the interior of said frame member, a plate spring having a return bend pivotally carried near said bend upon pivot supports associated with said frame member, said spring being in engagement with said thruster to be deflected thereby, means for adjustably engaging one end of said spring for adjustably tensioning the same, over center snap-action means engaging the opposite end of said spring, and a circuit-interrupting means mounted within said frame member in position to be actuated by said over center snap-action means.

2,281,545
COLORIMETER
Alva H. Bennett, Kenmore, and Roger S. Estey, Buffalo, N. Y., assignors to Spencer Lens Company, Buffalo, N. Y., a corporation of New York
Application February 23, 1939, Serial No. 257,798
6 Claims. (Cl. 88—14)

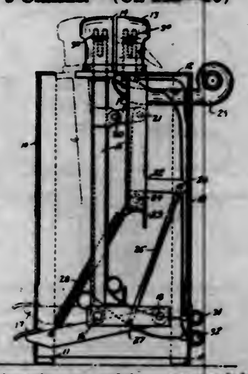
6. A device of the character described com-

prising plunger and cup units, means for directing light therethrough, an eyepiece, said plungers each being formed of a single piece of transparent material and having a light refracting forma-



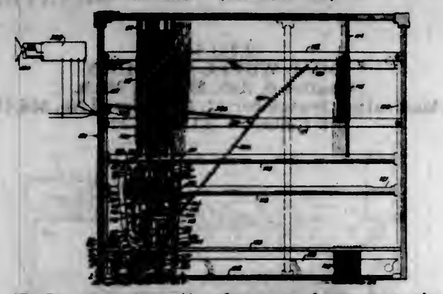
tion adjacent its upper end, said light refracting formation being within the contour of the upper end of said plunger and positioned with respect to said eyepiece to redirect light passing through said plunger toward said eyepiece.

2,281,546
CAP IRONER
Meyers M. Berger, Youngstown, Ohio
Application June 3, 1940, Serial No. 338,488
3 Claims. (Cl. 223—15)



1. A cap ironing machine comprising a cabinet like frame, a heated half circular appropriately shaped block positioned thereon, an oppositely disposed matching heated half circular block movably positioned adjacent thereto by means of a support arm pivoted at its lower end to a cross member of the said cabinet like frame, a pedal adapted for manual operation positioned in the said cabinet like frame and connected to the said support arm by means of suitable links and levers so that manual depression of the said pedal results in the movement of the movable half circular block into close relationship to the stationary half circular block so that a workman's cap may be positioned thereon, spring means positioned between a cross member of the said cabinet like frame and the said pedal for urging the said pedal upwardly so as to move the movable half circular block away from the stationary half circular block so that the workman's cap positioned on the said blocks will be suitably stretched and ironed thereby.

2,281,547
AUTOMATIC PHONOGRAPH
Edward F. Andrews, Chicago, Ill.
Application December 20, 1937, Serial No. 180,752
59 Claims. (Cl. 274—10)



17. In an automatic phonograph, a magazine for supporting a series of double faced disc records, a player unit including rotatable means for supporting a record in a plane for playing the same, record transfer means and record reproducing means associated with said unit and magazine, said record reproducing means being mounted for movement to either side of said playing plane to enable it to engage and play both faces of records supported in said plane, power means associated with said unit and magazine for causing relative motion between said magazine and playing unit, two independent stopping means corresponding to each record in said magazine and associated with said unit and said magazine and cooperating with said transfer means for arresting said relative motion when playing alignment is attained between any selected record in said magazine and the record transfer means of said player unit, means associated with said reproducing means and controlled by one of said independent stopping means for locating said reproducing means on one side of the record playing plane, and means also associated with said reproducing means and controlled by the other independent stopping means for locating said reproducing means on the other side of said playing plane.

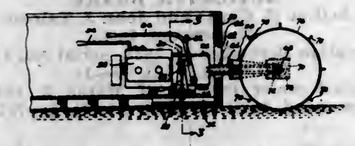
2,281,548
AUTOMATIC PHONOGRAPH
Edward F. Andrews, Chicago, Ill.
Application June 17, 1938, Serial No. 214,310
61 Claims. (Cl. 274—10)



61. In an automatic phonograph, in combination, a record supporting means adapted rotatably to support records in a single playing plane with the recording grooves on both sides exposed, power actuated transfer mechanism for effecting the transfer of records from said record supporting means, two separate pickups positioned permanently one on each side of said playing plane, a common support for said pickups movable about an axis perpendicular to said playing plane, said pickups being mounted on said support for common movement with said support

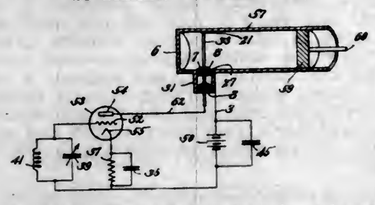
about said axis whereby said pickups follow the record grooves when moved into contact therewith, means mounting said pickups on said support for pivotal movement toward and away from said record playing plane whereby said pickups are movable into contact with the record grooves, power actuated means for effecting pivotal movement of the pickups toward and away from said playing plane, a trip actuating member mounted on and movable with said common pickup support about said perpendicular axis, trip means actuated by said actuating member when the center of a record is approached by a pickup in contact with the record grooves, and power means controlled by said trip means for effecting movement of said power actuated means to move the pickup out of contact with the record grooves when it approaches the center of a record and for effecting operation of said transfer mechanism.

2,281,549
WATER CRAFT DRIVE
Albert Arnold, Detroit, Mich.
Application January 30, 1939, Serial No. 253,500
5 Claims. (Cl. 115—49)



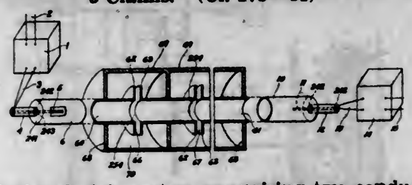
1. In a boat having an engine, a buoyant cylindrical drum having an axis of rotation, a support pivotally mounted on the boat operable for supporting said drum for vertical movement relatively to the boat, a driving structure interconnecting the engine and said drum and operable for rotating said drum about said axis, said drum being proportioned in dimensions so that the buoyant force of the water displaced by said drum supports the drum with said axis above the water a distance substantially equal to the radius of said drum, and a series of driving fins on said drum.

2,281,550
ELECTRIC-CIRCUIT ELEMENT
Wilmer Lanier Barrow, Newton, Mass., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application August 14, 1937, Serial No. 159,031
28 Claims. (Cl. 178—44)



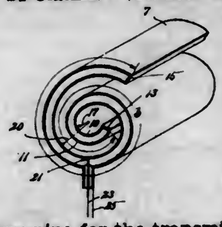
1. A high-frequency low-loss impedance element comprising a substantially closed conducting chamber provided with an opening, the size of said opening being adapted to reduce radiation losses from said chamber substantially to a minimum, and connecting means at said opening adapted to connect said impedance element to a high-frequency circuit in operative relationship, said connecting means guiding electromagnetic energy with low loss between the chamber and said circuit.

2,281,551
ELECTRIC COMMUNICATION
Wilmer Lanier Barrow, Newton, Mass., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application September 10, 1937, Serial No. 163,240
3 Claims. (Cl. 178—44)



1. An electric system comprising two conducting pipes substantially coaxially disposed and separated from each other, the adjacently disposed ends of the pipes being open and each being provided with an annulus, and a resonant conducting chamber into which the said ends of the pipes project a substantial distance in order that the annuli may be wholly enclosed in the conducting chamber, the annuli being wholly spaced from the walls of the conducting chamber.

2,281,552
ELECTRIC COMMUNICATION
Wilmer Lanier Barrow, Newton, Mass., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application October 31, 1938, Serial No. 237,933
14 Claims. (Cl. 178—44)

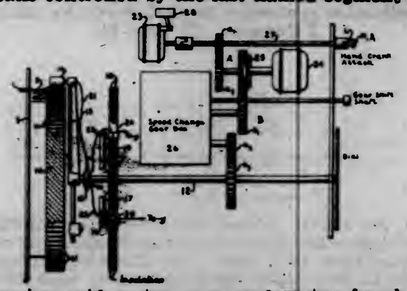


1. A hollow pipe for the transmission of ultra-high-frequency waves, the pipe being bounded by oppositely disposed walls and walls joining the oppositely disposed walls at their ends, the inner faces of the walls being conducting, at least portions of the oppositely disposed walls curving in directions transverse to the direction of longitudinal extension of the pipe over an arc of more than ninety degrees, and means for generating within the pipe, for transmission therethrough, in the direction of the said longitudinal extension, electromagnetic waves of such characteristic field pattern that they are propagated only at frequencies exceeding a critical frequency dependent on the dimensions of the pipe transverse to the said direction of longitudinal extension.

2,281,553
VARIABLE CYCLE TIMER
Stanton A. Bennett, Braintree, Mass., assignor, by mesne assignments, to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
Application February 15, 1938, Serial No. 190,562
11 Claims. (Cl. 161—1)

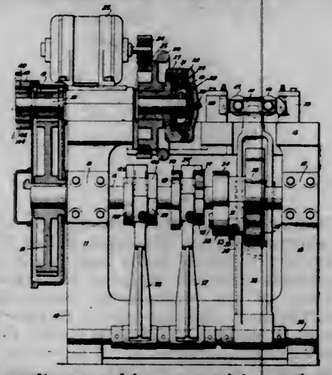
2. In an electrical control device for regulating the timed cycle of an industrial process, the combination of a time switch element having a plurality of equally spaced control segments dis-

posed about its periphery, and a cooperating contact brush, a motor for rotating the brush from a starting segment of the time switch element at a constant speed to a predetermined segment, means controlled by the last named segment for



stopping said motor, a second motor for driving the brush at increased speed from the predetermined segment to the starting segment, and means controlled by said predetermined segment for starting said second motor.

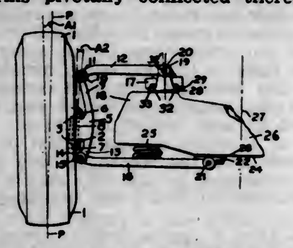
2,281,554
CURLING MACHINE
Amos Calleson and Edgar A. Calleson, Merrick, N. Y., assignors to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York
Application September 9, 1939, Serial No. 294,182
23 Claims. (Cl. 153—48)



1. A curling machine comprising primary and secondary curling dies, means for projecting the end of a can blank into the primary die to effect a preliminary curling thereof and then to retract the blank, means for shifting the dies relative to the blank to bring the secondary curling die into alignment with the preliminarily curled end of the blank, means for forcing said end into the secondary die to effect a further curling operation, and means for withdrawing the blank therefrom.

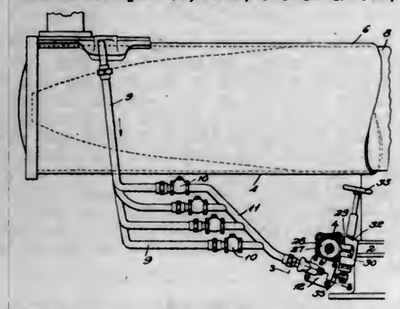
2,281,555
KNEE ACTION COMPENSATOR
Biagis Castiglia, New York, N. Y., assignor to Wheel Aligning Necessities, Inc., New York, N. Y.
Application November 24, 1939, Serial No. 305,851
18 Claims. (Cl. 280—96.2)

1. In a knee action comprising a vehicle wheel, a knuckle joint and king pin swingingly mounting said wheel in said knuckle joint, a steering knuckle support having an upper and lower arm and pivotal connections at the ends thereof, and upper and lower control arms connected to said pivotal connection, an axle frame having said control arms pivotally connected thereto, and



wedge shaped compensators inserted between said axle frame and said upper pivotal connection tilting said pivotal connection of said upper control arm in relation to said axle frame to change the camber of said vehicle wheel.

2,281,556
AUTOMATIC BRAKE
Arthur H. Chase and John J. Talcott, Washington, D. C.
Application December 22, 1938, Serial No. 247,222
6 Claims. (Cl. 89—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

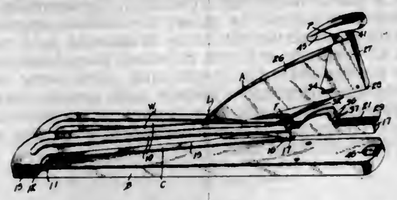


1. The combination with multiple torpedo tubes mounted to be rotatable about a common axis and means to convey propulsive fluid under pressure to each said tube, of means including a shaft for rotating said tubes, a brake drum on said shaft, a contractible brake band around said drum, a steep-pitch screw disposed to bear against said band to contract said band when said screw is rotated, a gear segment fixed on said screw, a hollow sleeve provided with a toothed rack meshed with said segment, a cylinder, a piston slidable in said cylinder having a stem extending into said sleeve, guide means in which said sleeve is slidable mounted, and means to apply to said piston pressure from any of said tubes.

2,281,557
STAPLING MACHINE
Stephen A. Crosby, Jackson Heights, N. Y., assignor to Speed Products Company, New York, N. Y.
Application July 10, 1939, Serial No. 283,692
11 Claims. (Cl. 1—3)

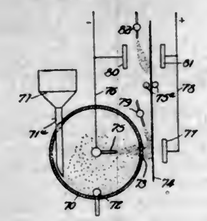
1. In a long reach stapling machine, a base, wing means carried by said base, a sensibly resilient cantilever beam secured to said base and substantially coextensive with the length of

said wing means and having a front movable end limited in one direction of movement by said



wing means, and staple carrying and ejecting means mounted exclusively on said beam.

2,281,558
MANUFACTURE OF ABRASIVE ARTICLES AND APPARATUS THEREFOR
Bert S. Cross, St. Paul, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
Application March 6, 1933, Serial No. 659,853
11 Claims. (Cl. 91—68)



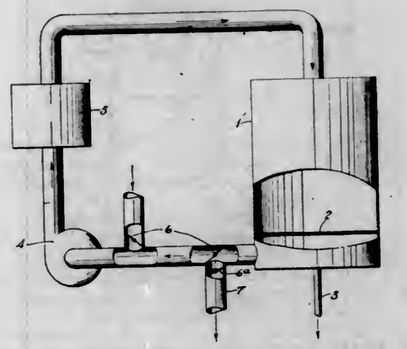
2. The process of applying coatings which includes the steps of dispersing and depositing a plurality of solid particles on a surface by the action of an electrical field, and depositing thereon in dispersed condition an adhesive material for binding said particles by the action of an electrical field.

7. The method of making abrasive coated products which comprises as steps thereof directing a mixture of abrasive grains and a solvent free thermoplastic binder in finely comminuted form upon a backing moistened with an adhesive coating, to impinge the abrasive particles upon said adhesive coating and to cause said mixture to adhere to the backing, while said coating is adhesive and under conditions of plasticity of the adhesive and binder to cause the binder to adhere both to the grains, and the adhesive carried by the backing.

2,281,559
UREA-HALOACYLATED UREA-ALDEHYDE CONDENSATION PRODUCTS
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application August 9, 1939, Serial No. 289,273
13 Claims. (Cl. 260—69)

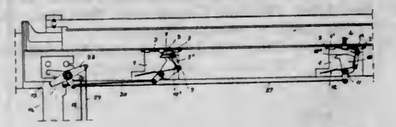
1. A composition of matter comprising the heat-hardenable condensation product of ingredients comprising essentially the following components: (1) a non-haloacylated urea, (2) an aliphatic aldehyde and (3) an aldehyde-reactable halogenated acylated urea in which at least one halogen atom is attached to at least one of the following carbon atoms thereof: the alpha carbon atom; the beta carbon atom.

2,281,560
DRYING OF SMOKELESS POWDER
Walter Arthur Dew and Bill Harry Mackey, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application April 21, 1939, Serial No. 269,104
6 Claims. (Cl. 34—9)



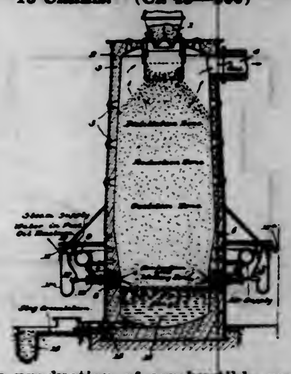
1. A method of drying smokeless powder, which comprises heating a charge of said powder to a predetermined temperature by recirculating a hot drying medium through said charge, retaining substantially all of the vapors evolved during said heating period, exhausting the vapor-laden medium being recirculated and introducing an equivalent volume of outside air while maintaining the powder charge at substantially constant temperature, and then continuing recirculation of drying medium for a predetermined period.

2,281,561
WEFT CONTROL DEVICE FOR WEAVING LOOMS
Emile Charles Robert Diederichs, Bourgoin, France
Application August 2, 1938, Serial No. 222,653
In France April 14, 1938
1 Claim. (Cl. 139—376)



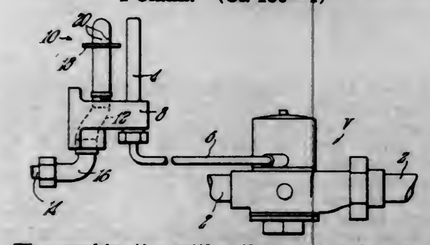
A weft thread controlled stop mechanism for looms including two detector forks one of which is mounted at the right hand side of the loom, the other detector fork being mounted at the left hand side of the loom, said detector forks being mounted for movement from a normal position of rest, through the warp threads of a fabric being formed on the loom to an operative position into engagement with a weft thread being laid by a shuttle of the loom, and independently operated means for moving each of said detector forks from its position of rest to its operative position immediately behind a shuttle as the shuttle moves from its respective side of the loom to the opposite side thereof to lay a weft thread, a shaft, means for rotating said shaft, and a pair of diametrically opposed cams carried by said shaft for alternately operating said detector fork operating means.

2,281,562
FUEL GAS PRODUCTION
Marvin W. Ditto and William P. Terrington, New York, N. Y., assignors to Ramapo Process Corporation, New York, N. Y., a corporation of Delaware
Application December 15, 1939, Serial No. 309,504
13 Claims. (Cl. 48—200)



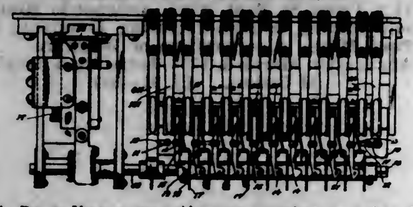
1. In the production of combustible gas, introducing a mass of green substantially solid carbonaceous material into the upper portion of a stack and feeding the mass successively through a distillation zone, a reduction zone, an oxidation zone, and an incandescent zone, in the order named, maintaining the incandescent zone in a state of incandescence by blowing air into the lower portion of the mass, injecting an intimate mixture of water and fuel oil in atomized condition into the incandescent zone, burning the fuel oil and some of the resulting combustible gases in said incandescent zone, passing hot gases upwardly from the incandescent zone through said mass and thereby subjecting carbonaceous material above the zone of incandescence to distillation and partial combustion, and discharging the resulting gases from the upper portion of said distillation zone.

2,281,563
PILOT FOR GAS RANGES
Homer D. Dufault, Easthampton, Mass., assignor to Holyoke Heater Company, Holyoke, Mass., a corporation of Massachusetts
Application May 13, 1941, Serial No. 393,240
1 Claim. (Cl. 136—4)



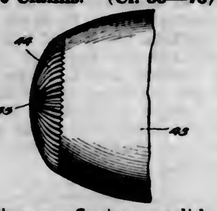
The combination with a thermo-couple extending vertically from a support, of heating means for said couple comprising in combination, a pilot extending vertically from said support having a closed bore for gas provided with a gas inlet at its lower end and a port leading through a wall of the pilot from said bore spaced downwardly from the upper closed end of the bore directed toward said couple for horizontally directing a flame of gas emitted from said port onto and around said couple, and a deflector associated with the pilot spaced below and adjacent the port thereof having a part extending outwardly horizontally towards said couple to direct air flowing upwardly of the pilot outwardly away from said port tending to displace a flame directed therefrom from the horizontal, said couple and pilot being relatively spaced apart whereby said couple may be disposed within the inner part of a horizontal flame from said port and adjacent the pilot with the flame around said couple.

2,281,564
AUTOMATIC TELEPHONE APPARATUS AND CIRCUITS
George R. Eaton, Oak Park, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a corporation of Illinois
Application September 10, 1938, Serial No. 229,266
41 Claims. (Cl. 179—24)



1. In a line connecting apparatus, a relay including more than two contact sets, an electromagnet and an armature therefor, common to said contact sets and an electromagnetically operated selective means for operatively associating said armature with a single desired one of said contact sets, whereby the said desired contact set will be actuated to the exclusion of all other said contact sets by energization of said electromagnet.

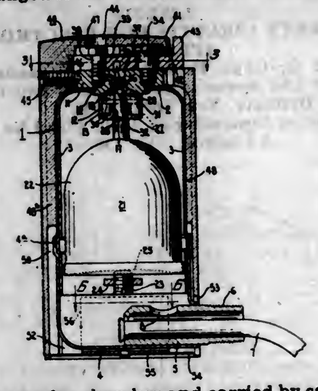
2,281,565
SIGN AND REFLECTOR THEREFOR
Arthur F. Eckel, Chicago, Ill.
Application February 5, 1938, Serial No. 188,899
6 Claims. (Cl. 88—78)



6. In a collinear reflector, a solid unit of transparent refracting material having a paraboloidal side surface with a convex, concentric curved end surface, the curved end surface containing a system of close spaced dihedral reflecting and refracting projections.

2,281,566
AIR VENT VALVE
Lewis W. Eggleston, Davison, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan
Application April 22, 1940, Serial No. 331,005
17 Claims. (Cl. 236—61)

1. In an air vent valve for a heating system, a casing having a passage through a wall thereof including a valve seat member, a thermostatic valve in said casing and extending into said passage, said valve cooperating with said passage to provide an annular chamber therebetween and being operable to engage said seat member to close said passage to flow therethrough, said valve having a seat spaced from and opposed to said seat member, a pressure responsive open ended tubular valve surrounding said first-named valve and arranged to move longitudinally thereof with-



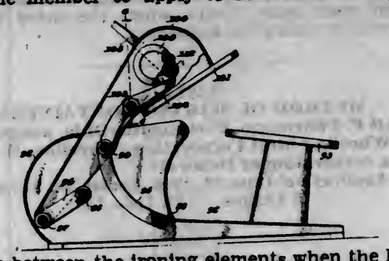
in said annular chamber and carried by said first-named valve on said seat, said second-named valve being movable relative to said first-named valve longitudinally of and within said annular chamber, said second-named valve on increase in pressure in said casing engaging said seat member and cooperating with said first-named valve to increase the resistance to flow through said passage.

2,281,567
COMPOSITION AND METHOD OF PREPARING SAME
Ellsworth K. Ellingboe and Paul L. Salzberg, Newcastle County, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 17, 1937, Serial No. 180,317
7 Claims. (Cl. 260—735)

1. Rubber hydrochloride of about 30.5% chlorine content self-sustaining film containing 10% based on the weight of rubber hydrochloride of a phenol formaldehyde-methylamine resin prepared by the condensation of 1.0 mol of phenol, 2.0 mols of formaldehyde and 1.0 mol of methylamine.

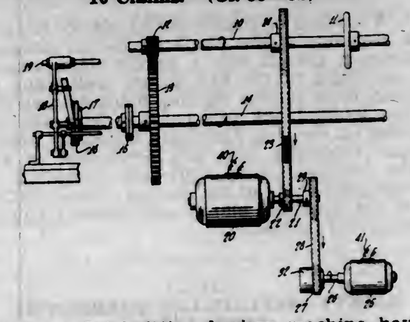
2,281,568
FLAT PLATE IRONER
Edwin E. Foster, Austin, Tex., assignor to Majik-Ironers, Inc., Austin, Tex., a corporation of Texas
Application March 14, 1936, Serial No. 69,143
17 Claims. (Cl. 38—36)

15. A flat plate ironer comprising a base member having a stationary ironing element, a movable head member pivotally mounted to the base members and having a cooperating ironing element mounted thereon, an actuating handle member pivotally mounted in the head member, a spring composed of a single convolution having one end rotatably secured to the base member and the other end rotatably secured to the head member, said spring having its ironing force constantly stored therein, and means connected to the handle member and one end of the spring to shift said spring around its pivot axes when approximately coincident upon actuation of said handle member to apply or relieve the ironing



force between the ironing elements when the latter are in contact with each other with the spring convolution in one plane.

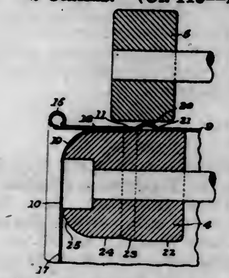
2,281,569
FLAT KNITTING HOSIERY MACHINE
Otto Ernst Fritsche, Hasbrouck Heights, N. J., assignor to Alfred Hofmann, Inc., West New York, N. J., a corporation of New Jersey
Application June 12, 1941, Serial No. 397,707
10 Claims. (Cl. 66—82)



1. In a flat-knitting hosiery machine having knitting and welt turning mechanisms and a power or handwheel shaft and a relatively slower main or cam shaft making one turn per cycle or course, with reduction gearing from the power shaft to the main shaft, and said shafts being adapted to actuate in automatic alternation for relatively long periods the knitting mechanism and for relatively short periods the welt turning mechanism; a drive means for such shafts and mechanisms comprising an electric drive motor, with speed reduction gearing from the drive motor shaft to the power shaft, adapted to deliver to the main shaft when the motor is turning at normal speed a relatively high predetermined main shaft rotary speed during knitting periods, as between 60 and 100 turns per minute; in combination with an auxiliary motor with auxiliary gearing from its shaft to the drive motor shaft adapted to deliver therethrough to the main shaft when the auxiliary motor is turning at normal speed a relatively low predetermined main shaft speed during welt turning periods, as between 5 and 20 turns per minute; said auxiliary gearing comprising a gear wheel loose on one of said motor shafts and a one-way drive device or clutch between said gear wheel and motor shaft so arranged that the auxiliary motor may drive through but may not be driven by the drive motor shaft; a reversible electric switch controlling the circuits of said drive motor and auxiliary motor respectively and adapted to deenergize each motor when energizing the other; and

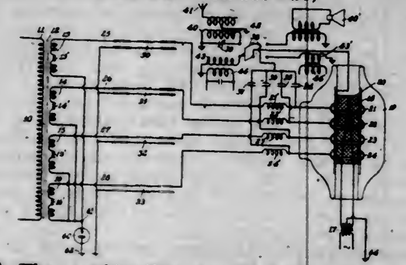
a cyclic or pattern means adapted to control said switch to close the auxiliary motor circuit for each short period of welt turning and to maintain open such circuit when the drive motor circuit is closed for knitting.

2,281,570
METHOD OF MAKING CONTAINERS
Karl P. Fuhrmann, Portsmouth, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va., a corporation of Delaware
Application June 28, 1940, Serial No. 342,963
2 Claims. (Cl. 113—120)



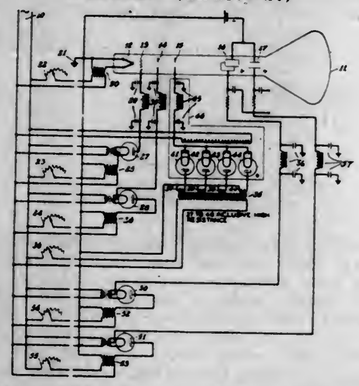
1. A method of joining metal blanks comprising providing a first blank having an elongated depression therein and a second blank adapted to be joined to the first blank, positioning the second blank against the first blank with an edge of the second blank adjacent said depression, operating on the thus assembled blanks by welding means extending into said depression to weld them together, said depression providing for proper positioning of the welding means relatively to the assembled blanks, and thereafter pressing out said depression.

2,281,571
SAFETY CIRCUITS FOR THERMIONIC APPARATUS
Edward G. Gage, Brooklyn, N. Y., assignor, by direct and mesne assignments, of two-thirds to Leon Ottinger, New York, N. Y.
Application May 29, 1940, Serial No. 337,806
4 Claims. (Cl. 250—27)



1. The combination with a source of electric current supply and unilateral means including a plurality of anodes operating at a combined dangerous voltage and current; of means, interposed between the said source of current supply and the said unilateral means, for separating the supply into a plurality of independent sources of dangerous voltage and corresponding paths to the respective anodes, each path including resistance permanently located in series with the respective sources of dangerous voltage such that all exposed parts of a path lie between a resistance and the unilateral means, said resistance being of such high magnitude that upon establishment of a closed circuit through said exposed parts and the human body the current in the particular path contacted is reduced by said resistance therein to a safe value, together with means for recombining in an electrical work circuit the currents from the respective anodes.

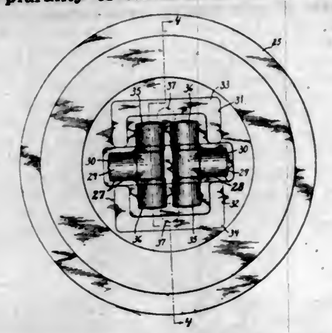
2,281,572
SAFETY CIRCUITS FOR ELECTRONIC APPARATUS
Edward G. Gage, Brooklyn, N. Y., assignor, by direct and mesne assignments, of two-thirds to Leon Ottinger, New York, N. Y.
Application September 12, 1940, Serial No. 356,460
3 Claims. (Cl. 250—27)



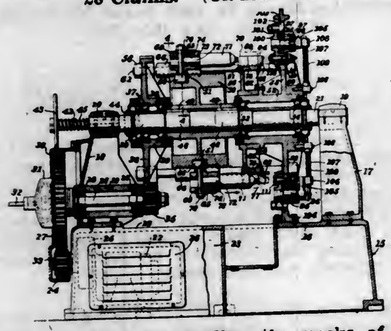
1. The combination with a source of electric current supply and unilateral means including a plurality of anodes and a cathodic portion operating at a dangerous voltage and current; of means, interposed between the said source of current supply and the said unilateral means, for separating the supply into a plurality of independent sources of dangerous voltage and corresponding paths to the respective anodes, each path including resistance permanently located in series with the respective sources of dangerous voltage such that all exposed parts of a path lie between a resistance and the unilateral means, said resistance being of such high magnitude that upon establishment of a closed circuit through said exposed parts and the human body the current in the particular path contacted is reduced by said resistance therein to a safe value, and a work circuit in series with a cathodic portion of the unilateral device, together with means for preventing electrical contact of the human body with exposed portions of the work circuit.

2,281,573
METHOD AND APPARATUS FOR MAKING BRANCH-FITTING BLANKS
William J. Gasey, Waterbury, Conn., assignor to Chase Brass & Copper Co., Incorporated, Waterbury, Conn., a corporation
Application September 26, 1938, Serial No. 231,658
2 Claims. (Cl. 78—60)

1. Apparatus for making a plurality of branch-fitting blanks each having a total of at least three line- and branch-terminals, of any desired one of a number of different size-combinations of said terminals, comprising: a pair of die-members each of which has a plurality of body- and terminal-forming cavity-portions and one or more insert-block cavities each designed and adapted to receive any desired one of a number of different insert-blocks, each insert-block having a plurality of terminal-forming cavity-portions complemental to the other insert-block of a pair, and different pairs having different sizes of terminal-forming cavity-portions.



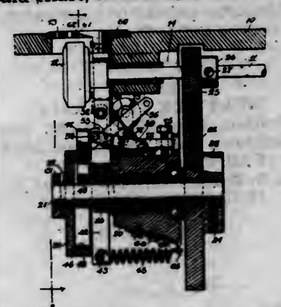
2,281,574
CURLING MACHINE
Willie I. Gladfelter and Alva Thomas Bryant, Philadelphia, Pa., assignors to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York
Application January 24, 1940, Serial No. 315,414
28 Claims. (Cl. 153—59)



1. A machine for curling the necks of containers, comprising means for moving a plurality of containers continuously along a predetermined path, a series of curling dies having curling grooves disposed opposite to and facing the necks of the containers, means for moving the dies along at least a portion of said path with the containers, and means actuated by said moving means for relatively moving the necks of the containers and dies axially toward each other into curling relation, to curl said necks by inserting the same into the curling grooves.

2,281,575
PINKING MACHINE
Morris Glassberg and Bernard Chester, Kingston, N. Y., assignors to Clear Bed Super-Pinker Corporation, Kingston, N. Y., a corporation of New York
Application September 26, 1939, Serial No. 296,563
16 Claims. (Cl. 112—122)

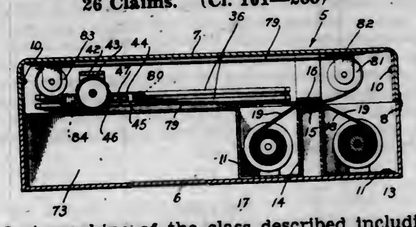
1. A pinking attachment for sewing machines including a frame adapted to be mounted below the bed of said sewing machine, a shaft in said frame, means engaging the hook shaft of the sewing machine to rotate said shaft, a two-faced cam on said shaft, a floating arm, rollers on said arm engaging said cam, and a pinking knife mounted on said arm.



2,281,576
POLYAMIDES AND PROCESS OF MAKING SAME
William E. Hanford, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 24, 1939, Serial No. 301,069
14 Claims. (Cl. 260—78)

1. A process which comprises reacting, at amide-forming temperatures, a diamine having a radical length less than 6 with at least two chemically equivalent amounts of a substance having a radical length of at least 5 of the class consisting of dicarboxylic acids and their amide-forming derivatives, and then adding to the resulting intermediate, and reacting therewith a substantially chemically equivalent amount of a diamine having a radical length of at least 6, both of said diamines having at least one replaceable hydrogen atom on each amino nitrogen atom.

2,281,577
COLLECTOR'S RECORDER
James Edwin Haynes, Boston, Mass., assignor to Collection Recorder Company, Andover, Mass., a corporation of Massachusetts
Application October 23, 1939, Serial No. 300,892
26 Claims. (Cl. 101—288)



8. A machine of the class described including a casing adapted to receive a payment card having printing indicia and a preformed stop shoulder, a type carrier slidably mounted within said casing and normally and yieldably supported in inoperative position, a notching cutter carried by the type carrier, said type carrier being movable to a selected printing position by engagement with the stop shoulder on the card when said card is inserted within the casing and moved to a predetermined position, means for actuating the type carrier to print indicia on said card and for actuating the printing indicia of the card to print on a record tape and simultaneously actu-

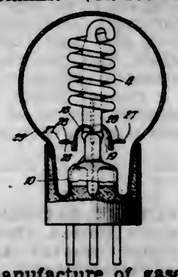
ate the notching cutter to form a new stop shoulder on the card, and means for automatically returning the type carrier to inoperative position after each printing operation.

2,281,578
MULTIPLE PLUG BAIT
Charles Heddon, Dowagiac, Mich., assignor to James Heddon's Sons, Dowagiac, Mich., a corporation of Michigan
Application November 16, 1940, Serial No. 365,889
12 Claims. (Cl. 43—42)



1. In a multiple plug bait, the combination of a hook and a plurality of plug bait bodies normally held in spaced relation to one another and connected to operate on a single draft line, one of the members being provided with a depending lip adapted to impart swimming movements to the bait as a whole and indirectly to each of the connected plug bait bodies.

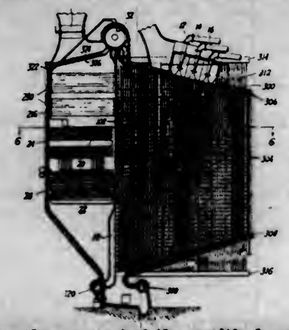
2,281,579
MANUFACTURE OF GASEOUS CONDUCTION LAMPS
Andrew F. Henninger, Jr., and George D. Henninger, Chicago, Ill.
Application October 9, 1939, Serial No. 298,577
9 Claims. (Cl. 176—122)



1. In the manufacture of gaseous conduction devices of the character described, a method which comprises the steps of sealing a length of glass tubing and an electrode suspended therein from one end thereof, within a mounting sleeve by collapsing the sleeve by heat and pressure upon the end of the tubing supporting said electrode, supporting a quantity of liquid mercury within said tubing below said end during the collapse of said sleeve and thereafter inverting the assembly.

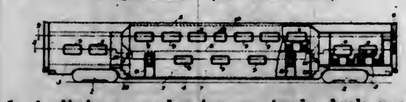
2,281,580
FLUID HEAT EXCHANGE APPARATUS
James C. Hobbs, Painesville, Ohio
Application October 28, 1938, Serial No. 237,403
2 Claims. (Cl. 122—478)

1. In fluid heat exchange apparatus, means forming a gas pass for furnace gas flow having non-uniform heat exchange values over its cross section, separate and spaced apart tube banks arranged transversely of the gas pass with each bank consisting of substantially uniform flat coils having their axes disposed in planes extending parallel to the general direction of gas flow, and laterally extending tubular connections each establishing communication between the outlet of a coil in one bank and the inlet of a coil of the other bank, the latter coil being disposed at a different distance from the same side of the gas pass, each of said tubular connections with the



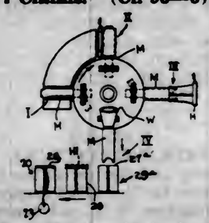
coils directly connected therewith forming a separate flow path having parts arranged in zones of different and compensatory heat exchange values, the separate flow paths being arranged in parallel.

2,281,581
DINING CAR
Reuben H. Herton, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 28, 1940, Serial No. 326,365
11 Claims. (Cl. 105—327)



1. A dining car having a single-deck portion at each end and a double-deck central portion therebetween, means of access between said portions, said central portion having a kitchen on its lower deck, and accommodations for patrons on its upper deck, and a centrally located elevator providing transportation for food and tableware between said two decks.

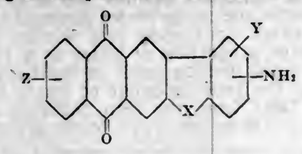
2,281,582
MANUFACTURE OF ESSENCE CONTAINING PACKAGES FOR BREWING BEVERAGES
Hans O. Irmscher, Roslyn, N. Y., assignor to Millie Patent Holding Co., Inc., a corporation of New York
Application September 30, 1940, Serial No. 358,998
7 Claims. (Cl. 93—3)



1. The method of manufacturing tea-balls and like articles of the character described comprising steps of forming an open ended tubular structure from a rectangular strip of foraminous sheet material formed of a filter layer base coated with a "partial fused" thermosetting plastic lamina with the latter extending on the interior side thereof by pressing and heating sealing for permanent adhesion abutting lamina coated surfaces of edge portions of said tubular structure to provide a longitudinally extending seam, pressing and heat sealing for permanent adhesion abutting lamina coated surfaces of an open end of said tubular structure to form a bag with a bottom closure seam extending over and joining one end of said longitudinal seam, filling each bag with an essence containing product through the other open end thereof, and pressing and heat sealing for permanent adhesion of abutting lamina coated surfaces of said open end to form a completely sealed brewing package with a top closure seam extending over and joining the other end of said longitudinal seam.

2,281,583
SUBSTITUTED ANTHRAQUINONES AND THE CORRESPONDING AROYL-BENZOIC ACIDS AND PROCESS OF PREPARING THE SAME
Paul Kränzlein, Berlin, Germany, assignor to General Aniline & Film Corporation, a corporation of Delaware
No Drawing. Application February 25, 1938, Serial No. 192,564. In Germany February 27, 1937
10 Claims. (Cl. 260—316)

1. As new products the members of the group consisting of compounds of the formula:



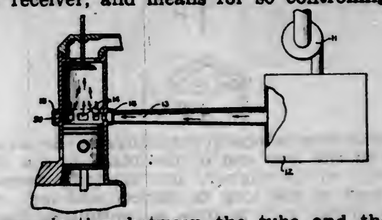
wherein
X represents a member of the group of bivalent radicals consisting of —NH—, —N—alkyl—, —O—, and —S—,
Y represents a member of the group consisting of hydrogen and methyl,
Z represents a member of the group consisting of hydrogen and chlorine,
and their sulfonation products.

2,281,584
METHOD OF TREATING PROTEIN MATERIAL AND PRODUCTS PRODUCED THEREBY
Percy L. Julian, Maywood, and Elmer B. Oberg, Evanston, Ill., assignors to The Glidden Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application April 8, 1939, Serial No. 266,858
11 Claims. (Cl. 260—6)

1. A molding powder in which the binder consists of a molding resin selected from the class of phenol-aldehyde and urea-aldehyde resins and the reaction product of an aldehyde with the insoluble residue remaining after treatment of soybean meal with an aqueous medium to remove water soluble constituents present in the meal.

2,281,585
SUPERCHARGING
Michel Kadenacy, Furzency, Fulmer, England
Application November 13, 1940, Serial No. 365,532
In Great Britain November 14, 1939
14 Claims. (Cl. 123—65)

1. Apparatus for supplying and trapping in a receiver a mass of gas at a pressure in excess of that of a source of supply of this gas, comprising a reservoir, a receiver, and a tubular connection between the reservoir and the receiver having an open communication at one end with the reservoir and a controlled communication at the other end with the receiver, means for establishing a pressure in the reservoir and tubular connection which is higher than the pressure in the receiver, and means for so controlling the



communication between the tube and the receiver that a large aperture is opened in a short period of time whereby the contents of the reservoir and tube will discharge ballistically as a dense mass into the receiver and create therein a pressure which is greater than the previously existing pressure in the reservoir and tube.

2,281,586
COMBINED SCUFF PLATE AND WEATHER STRIP
Clarence F. Kramer, Birmingham, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application October 28, 1940, Serial No. 363,136
5 Claims. (Cl. 296—1)



1. A combined scuff plate and weather strip adapted to protect the edge of a motor-vehicle carpet and form a seal between the vehicle door sill and a door therein comprising, a scuff-plate member formed from sheet metal having a bead along one edge of a semicircular cross section, with a supporting flange extending therefrom which is secured to the outer edge of said door sill and with the vehicle carpet extending into said bead portion, a channel-shaped weather strip support having a retaining flange extending transversely from its rear face, said retaining flange having openings therein, and said retaining flange being disposed between said supporting flange and said door sill, retaining screws extending through both of said flanges into said sill, a composite weather strip having a base portion disposed in said channel, said base portion being formed of resilient material of sufficient width and hardness that it is retained in said channel by its own resiliency, and a sponge-rubber bumper strip secured to the outer face of said base portion between the arms of said channel, which bumper portion is compressed by said door when the door is closed.

2,281,587
METHOD OF MAKING CUTTING DIES
Harold A. M. Latham, Binghamton, N. Y., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J.
Application October 23, 1939, Serial No. 300,745
3 Claims. (Cl. 76—107)

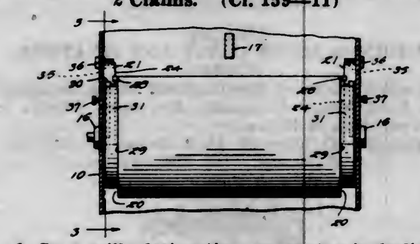
1. A method of forming a cutting die having a corner, which consists in providing a core of a

shape corresponding to a blank to be cut and a shape having a laterally projecting flange, bending the blade along the core with the flange in engagement with a surface thereof, securing the blade to the core at a point adjacent to the corner, bending the free end of the blade about the



corner to form a loop in the flange at the corner, securing the free end of the blade to the core adjacent to the corner, and applying pressure and heat to the loop to flatten and melt the metal of the loop to form a continuous flange reinforced at the corner portion of the die.

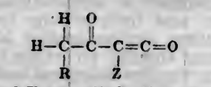
2,281,588
END DAM FOR MILK DESICCATORS
Henry Magnus, Nichols, Wis.
Application February 16, 1939, Serial No. 256,792
2 Claims. (Cl. 159—11)



1. In a milk desiccating apparatus including a pair of coextensive, contiguous rollers having annular recesses at both ends, said rollers being mounted for rotation between the spaced vertical walls of a suitable closed housing, the improvement comprising transverse closure walls removably positioned at the ends of the rollers, said closure walls being formed with an arcuated inwardly convergent lower portion adapted to be received in the annular recesses of the said rollers, removable packing strips carried by the end walls and projecting beyond the plane of the inner face thereof, and frictionally engaging the vertical wall of the recesses of the rollers to effect a watertight union therewith, removable packing strips projecting downwardly from the arcuated lower portion of the end walls and frictionally engaging the horizontal wall of the recesses of the rollers to hold the end walls spaced from the rollers, guides extending from the vertical walls of the housing engaging the top edges of the closure walls to hold the said second packing strips in pressed engagement with the rollers, and adjusting screws extending through the vertical walls of the housing and engaging the closure walls to move the same longitudinally of the rollers to regulate the degree of frictional engagement of the said first packing strips with their respective surfaces.

2,281,589
MOISTUREPROOF WRAPPING MATERIAL
James A. Mitchell, Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 8, 1940, Serial No. 339,493
9 Claims. (Cl. 91—68)

1. A moistureproof wrapping material sheet comprising a regenerated cellulose base sheet having a moistureproofing coating adhered thereto with a layer of ethenone material of the formula:



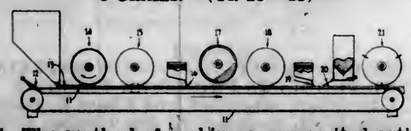
in which R and Z are aliphatic groups.

2,281,590
MEAT TREATMENT
Lowell R. Newton, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application April 26, 1940, Serial No. 331,859
4 Claims. (Cl. 146—76)



1. The method of treating meat containing substantial amounts of fatty and lean constituents to separate the fat from the lean portion which comprises hashing the meat to form lean particles and fat particles loosened from the lean particles, contacting the hashed product with a large proportion of water at a temperature below the melting point of the fat and approaching the freezing point of water to separate the fatty from the lean particles and recovering said separated particles by gravity.

2,281,591
METHOD OF MAKING COMPOSITE SHEETS
Howard Cary Moore, Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application April 28, 1937, Serial No. 139,352
3 Claims. (Cl. 18—48)

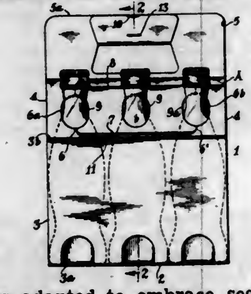


1. The method of making a composited article which comprises forming a layer of an intimate compressible mixture of asbestos fibres and hydraulic cementitious material, applying to a face of said layer a dry veneer coating including an intimate compressible mixture of asbestos fibres, hydraulic cementitious material and pigmentary material, wetting the resulting composite, applying pressure to said composite in such a manner as to form depressions in the veneer coating that extend into the layer and as to force excess water from and densify the composite, partially hardening the hydraulic cementitious material, trimming the composite to the desired dimensions, and then completing the hardening of the hydraulic cementitious material.

2,281,592
BOTTLE CARRIER
Joseph F. O'Brien, Englewood, N. J.
Application May 17, 1938, Serial No. 208,355
3 Claims. (Cl. 224—45)

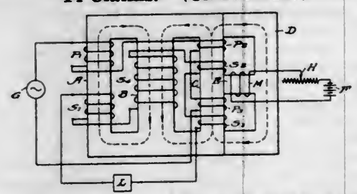
1. A bottle-carrying carton composed of a strip

of flexible material and comprising a carton body adapted, when loaded, to carry a row of bottles, said strip being creased to provide a bottom and oppositely-disposed upwardly-extending wall portions including side members and at least one top portion being disposed in inclined position and adapted to cross the top portions of a row of bottles to be carried in the carton and meeting the opposite wall portion of the carton at a line below the tops of the bottles, said inclined top portion of the carton being severed adjacent to opposite side edges and to the bottom of said top portion to provide a wide bottle-unloading opening through which the top portions of the row of bottles project and having



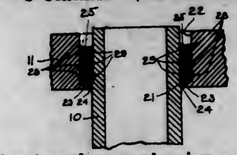
side edges adapted to embrace segmental portions of the necks of the end bottles of said row, said opening being of a width greater than the diameter of the body portion of one bottle and less than the sum of the diameters of the body portions of the row of bottles carried, a handle portion having a connection to the upper end of said inclined top portion, and a bottle-engaging flap comprising the said carton-top portion so severed to form said unloading opening, said flap being hinged at the upper end of said bottle unloading opening and adapted to engage the top portions of the row of bottles to force the projecting bottle necks into tightened engagement with the edges of said unloading opening.

2,281,593
VOLTAGE REGULATOR
Paul H. Odessey, Brooklyn, N. Y.
Application May 26, 1938, Serial No. 210,261
14 Claims. (Cl. 171—119)



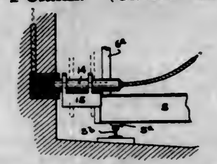
1. In combination, a unitary transformer core comprising at least three legs arranged to provide at least three magnetic paths connected in parallel relation, a primary circuit including windings linking the magnetic paths of at least two of said legs for establishing a primary flux in said legs, said windings being arranged in serial circuit relation, and means to variably saturate one of the legs having a primary winding linked therewith to thereby vary the effective number of turns in said primary circuit, said variable saturating means comprising means to establish magnetizing fluxes in opposite directions in different linear sections of said saturated leg, and including return paths for said fluxes separate from the other two legs of said core.

2,281,594
SEALING TUBES TO TUBE SHEETS OF HEAT EXCHANGERS, AND THE LIKE
William A. Pearl, Chicago, Ill.
Application December 27, 1940, Serial No. 371,942
3 Claims. (Cl. 285—45)



1. In a heat exchanger having a series of tubes and a tube sheet provided with apertures for receiving the ends of the tubes, means to seal and connect the ends of the tubes to said tube sheet comprising an annulus of rubber-like material located between the outer face of the end portion of each tube and the adjacent wall of an aperture in the tube sheet, and means carried by said tube and said tube sheet for anchoring said annulus thereto, whereby relative movement between the tube and the tube sheet is accommodated by shear distortion of the annulus, substantially as described.

2,281,595
APPARATUS FOR SERVICING RAILWAY RUNNING GEARS
Leland G. Plant, Washington, D. C., and Lawrence Richardson, Cambridge, Mass.
Application April 11, 1941, Serial No. 388,154
1 Claim. (Cl. 104—32)



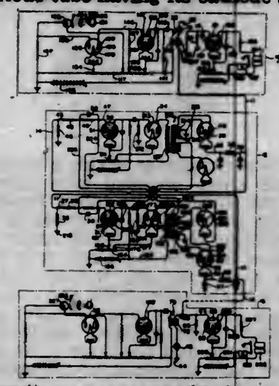
In a drop pit apparatus for servicing railroad vehicles, in combination, an elongated pit, a plurality of railway tracks intersecting the pit at spaced intervals, a truck adapted to be moved lengthwise of said pit, a pair of rails carried by said truck adapted to be brought into alignment with a selected railway track on proper positioning of said truck, means, including an electric motor carried by said truck for raising or lowering the said rails with reference to the truck, and means to insure a proper positioning of the truck with reference to the railway tracks prior to actuating said motor, said means including electric current supply sockets in the pit wall located one adjacent each of said intersecting railway tracks, a plug adapted to fit one of said sockets for supplying current to said motor, and a guide for said plug carried by said truck, arranged to permit the plug to be inserted in its socket only when the truck is in such position that the rails carried thereby when properly elevated, will be in alignment with the railway track intersecting the pit at that particular position of the truck.

2,281,596
TELEGRAPHIC TRANSMISSION BY SPACE DISCHARGE CONTROL
Louis M. Potts, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application March 7, 1938, Serial No. 194,305
12 Claims. (Cl. 178—71)

1. In a telegraph system, a normally con-

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tinuously conducting signaling circuit, a source of alternating potential in said circuit, a thermo-electric space discharge rectifying tube having cathode and anode in said circuit, said circuit normally carrying a rectified current, a thermo-electric triode tube having its cathode and anode



in said circuit, means responsive to received signals for suppressing operation of said source to stop said current in signaling manner, and further means responsive to other received signals for polarizing the grid of said triode tube to stop said current in signaling manner.

2,281,597
LUBRICANT AND METHOD OF LUBRICATING
Carl F. Prutton, Cleveland Heights, Ohio, assignor to The Lubri-Zol Development Corporation, Cleveland, Ohio, a corporation of Delaware
No Drawing. Application June 25, 1937, Serial No. 150,315
2 Claims. (Cl. 252—54)

1. A lubricating composition comprising a major proportion of lubricating oil and from an effective amount to about 20% based on the amount of lubricating oil of a halogenated alkylated aromatic ketone.

2,281,596
SOLVENT AND FUEL CONTAINING SAME
Carl F. Prutton, Cleveland Heights, Ohio, assignor, by direct and mesne assignments, to The Lubri-Zol Corporation, Wickliffe, Ohio, a corporation of Ohio
No Drawing. Application March 17, 1939, Serial No. 262,504
6 Claims. (Cl. 44—9)

1. As a composition of matter a normally liquid organic solvent comprising (*a*) a halogenated aromatic monocyclic hydrocarbon and (*b*) a halogenated aromatic ether, said compounds having a vapor pressure below atmospheric at 170° C. and being sufficiently stable so as not to substantially decompose either when boiled at atmospheric pressure or under the conditions encountered in the combustion chamber of an internal combustion engine.

2,281,599
METHOD FOR WEIGHTING TEXTILES
Willard L. Morgan, Cranston, R. I., assignor to Arnold, Hoffman & Co. Incorporated, a corporation of Rhode Island
No Drawing. Application May 9, 1939, Serial No. 272,595
3 Claims. (Cl. 8—95)

2. In the weighting of textiles, the process of treating textile materials with a compound having the general formula: X.R in which X represents a member selected from the group consisting of magnesium sulfate, $MgSO_4$ and calcium chloride, $CaCl_2$ and in which R represents a member of the urea group consisting of

$4(CO(NH_2))_2$
$5CO(NH_2)_2.2H_2O$
$6CO(NH_2)_2.2H_2O$
$CO(NH_2)_2.3H_2O$

and

$CO(NH_2)_2$

which comprises saturating the textile material in a mixture consisting of said compound and urea in mixed aqueous solutions of the same, said urea being in a quantity of from 50% to 90% of the weight of the total mixture, and then drying the treated textile material to obtain thereon a double salt formation of the resulting compound of this mixture corresponding to the general formula above-named and in solid form.

2,281,600
DILATOR
Joseph R. Ross, New York, N. Y., assignor to Emma Elizabeth Ross, New York, N. Y.
Application September 2, 1939, Serial No. 293,285
4 Claims. (Cl. 128—344)

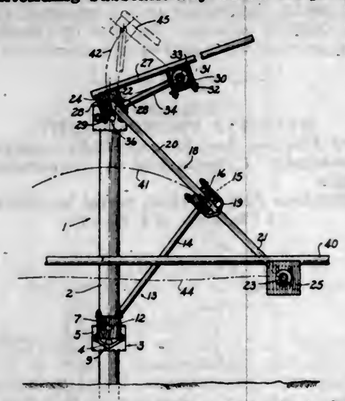


1. A device for the dilation and massaging of the rectal muscles and glands comprising, a reinforcement member for insertion into the rectum, a connecting block carried at one end of said reinforcement member, an expansible tube having a closed end carried by said reinforcement member, a bore in said connecting block communicating at one end with a corresponding bore in said reinforcement member and wtih an inflation means at the other, and expansible and compressible means interposed between said block and said inflation means for causing a pulsatory and sliding movement in said expansible tube, said expansible tube having at its closed end an elongate bearing for a longitudinal sliding engagement at all times with the free end of said reinforcement member.

2,281,601
PULL ROD CARRIER
Allen M. Rossman, Wilmette, Ill.
Application July 10, 1940, Serial No. 344,675
12 Claims. (Cl. 74—522.5)

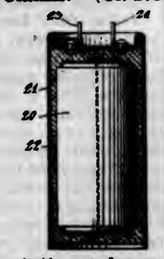
1. In a system wherein power is transmitted from a power source to a distant point of utilization by a reciprocating pull rod, means for supporting the pull rod intermediate the ends thereof comprising a column secured in the ground

and extending upward therefrom, two links pivoted about parallel stationary horizontal axes carried by the column and spaced vertically of one another but in different vertical planes, a third link pivotally connecting the two links and extending substantially below its pivot with



each of the first two links, said pivots being so spaced that a point on the extended part of the third link has a substantially straight line horizontal motion as the linkage is actuated, and a pull rod support carried by said last link at the straight line motion point thereof.

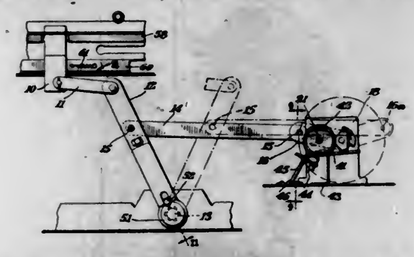
2,281,602
ELECTROSTATIC CONDENSER AND SPACER THEREFOR
Samuel Ruben, New Rochelle, N. Y.
Application December 9, 1938, Serial No. 244,755
6 Claims. (Cl. 175—41)



1. An electrostatic condenser wherein a pair of foil electrodes are interwound with dielectric sheet spacers forming a roll and the roll is impregnated with a dielectric impregnating material, said spacers being subject to spot conductive breakdown under applied voltage, characterized by the fact that there is combined with each of said spacers a porous coating of finely divided granular crystalline dielectric material and a binder bonding said granular material to the surface of said spacer, whereby to prevent direct contact between said surface and the co-operating foil electrode.

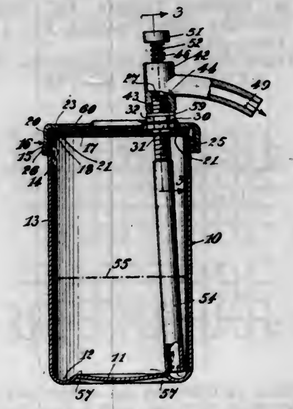
2,281,603
VOTING MACHINE
Ransom F. Shoup, Ardmore, Pa., assignor to The Shoup Voting Machine Corporation, Philadelphia, Pa., a corporation of Delaware
Application January 12, 1939, Serial No. 250,478
25 Claims. (Cl. 74—40)

1. In a voting machine, an operating bar movable to and fro, means including an electric motor and a shaft driven thereby for actuating said bar, a pair of motor-energizing circuits, a voter operable switch common to both circuits for opening one circuit and simultaneously closing the other, a second switch common to both circuits for opening one circuit and simultaneously closing the other, an election official operable



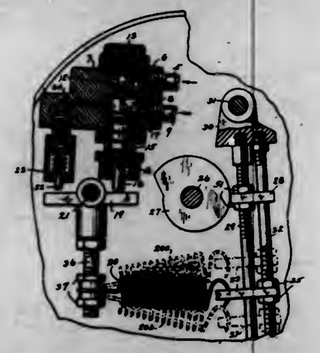
slide for actuating said switch and movable between two positions, means controlled by said bar for locking said slide in either of its two positions, and switch mechanism common to both circuits operated in timed relation to said shaft for opening either circuit while conditioning the other for closing by operation of said other two switches.

2,281,604
CONTAINER FOR HOLDING LIQUID UNDER PRESSURE
Allyne H. Smith, Columbus, Ohio, assignor to Aeration Processes, Inc., Columbus, Ohio, a corporation of Ohio
Application April 24, 1936, Serial No. 76,136
8 Claims. (Cl. 221—74)



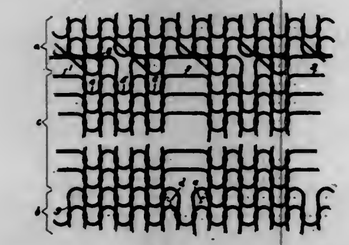
1. A metal container body for edible liquids, a lighter weight cover for the body having a flat surface, a separate device engaging the cover to hold the cover to the body, a valve forming the sole opening to the body, a boss in the cover adapted to strengthen it and carrying the valve adjacent but clear of one edge of the body, and a nozzle for the valve projecting over the side of the body and adapted to serve as a hand hold for the container, a tube projecting from the valve to the point in the can where liquid tends to collect when the container is held by the hand hold, and a depression at the valve pointing the tube to said point.

2,281,605
FLUID PRESSURE CONTROL DEVICE
Harvey E. Smith, Portland, Oreg., assignor to Albert Leslie Gordon, Portland, Oreg.
Application February 7, 1939, Serial No. 255,070
12 Claims. (Cl. 50—5)



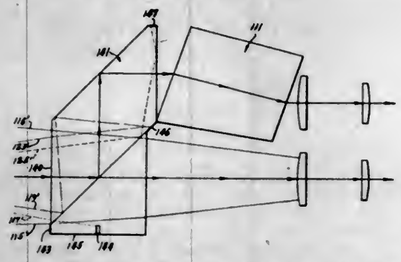
1. In a fluid regulator for fluid comprising a fluid inlet, a fluid outlet, a port lying intermediate said fluid inlet and said fluid outlet and a valve element controlling the flow of fluid through said port, resilient means for opening and closing said valve element, a heat responsive pivoted lever for varying the effectiveness of the force exerted by said resilient means, and means for adjustably rotating said lever about its pivot to vary the force exerted by said resilient member.

2,281,606
STOCKING OF THE STRAIN ABSORBER TYPE
Howard B. Snader, Temple, Pa., assignor to Vanity Fair Silk Mills, Reading, Pa., a corporation of Pennsylvania
Application June 16, 1939, Serial No. 279,543
6 Claims. (Cl. 66—172)



1. Stocking comprising an upper portion knit from basic inelastic yarn, and a two-way stretch knit strain absorbing band of fine gauge covered rubber yarn having the inherent tendency to curl, and being formed at intervals with transverse rows of drop stitches spaced apart by a plurality of walewise rows of loops forming transverse convex ribs, said strain absorbing band being integrally knit to said upper portion, a course of inelastic yarn of said upper portion adjacent the line of juncture of said upper portion with said strain absorbing band being knit with transferred stitches in the longitudinal lines of said ribs, performing the dual functions of narrowing the margin of the upper portion at the line of juncture with the strain absorbing band, preventing spreading with consequent flattening of the ribs, and affording a break between said upper portion and the ribs, facilitating the convexing of the ribs transversely of their length under the contraction of the material of said ribs away from said rows of drop stitches, the transferred stitch formation being duplicated in an inelastic yarn of the leg portion adjacent the line of juncture of said leg portion with said strain absorbing band.

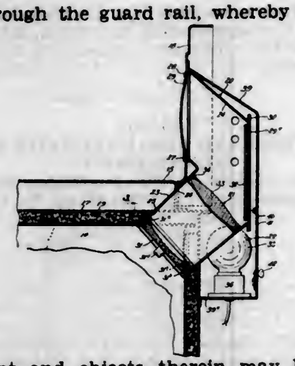
2,281,607
MULTIPLE PHOTOGRAPHY
Richard Thomas, Los Angeles, Calif., assignor to Thomascolor Corporation, a corporation of Nevada
Application July 25, 1939, Serial No. 286,370
14 Claims. (Cl. 88—1)



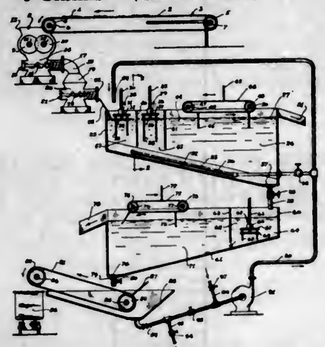
1. Apparatus for simultaneous multiple photography, comprising an optical element of rhomboidal section, a shorter front face of which constitutes a light entrance area from the chosen field, a generally triangular prism assembled with a first lateral face of said element with a partially reflective face therebetween, said prism having a truncated, light absorbent front edge alined with the front face of said element and terminating short of the rear face of said element, the area of said first lateral face rearward of said prism treated so as to be light absorbent, a second lateral face of said element having a totally reflective surface, and a block of trapezoidal section having a front parallel face extending at an acute angle from the inner edge of the rear face of said element to receive rays from said total reflective surface, said block as a whole sloping substantially inward towards the axis of undeflected rays and having its rear parallel face spaced substantially from its front face whereby the totally reflected bundle of rays emergent therefrom travels in parallelism with the unreflected rays, with a predetermined spacing of the central rays of reflected and unreflected light according to the separation of the respective lens systems upon which they impinge.

2,281,608
VIEWING DEVICE FOR COOKING RANGES
Alfred S. Vincent, Los Angeles, Calif.
Application July 15, 1938, Serial No. 219,415
Renewed February 26, 1940
7 Claims. (Cl. 88—72)

1. In a cooking range of the console type having an oven compartment and an upwardly projecting guard rail, the improvement which comprises a tubular member having an inner end positioned at the upper portion of and opening into the oven compartment and its outer end extending through and terminating at the front of the guard rail, and an optical system associated with the member for directing light images from the compartment through the member and through the guard rail, whereby the compartment and objects therein may be viewed from a position in front of and above the range.



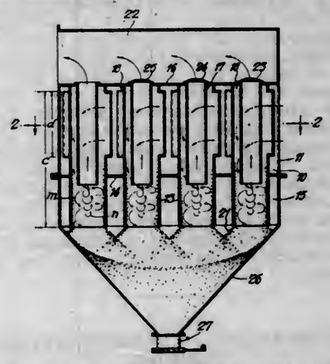
2,281,609
PREPARATION OF GELATIN STOCK
Charles T. Walter, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application September 9, 1939, Serial No. 294,209
9 Claims. (Cl. 146—219)



1. The method of treating animal tissue having portions of fatty material and portions of non-fatty material of relatively tougher tissue than said portions of fatty material, which comprises, subjecting said animal tissue to a hashing operation involving cutting and scraping actions to cut the non-fatty material into particles and scrape the fatty material therefrom as particles of fatty material, distributing the resultant mixture into sufficient water to provide for separation and stratification of said particles in said water, maintaining the temperature of said water during said separation below the rendering temperature of said fatty material, whereby said particles of non-fatty tissue sink in said water and said particles of said fatty material are disengaged from said particles of non-fatty material and rise to the top of said water, and separately recovering said fatty and non-fatty material.

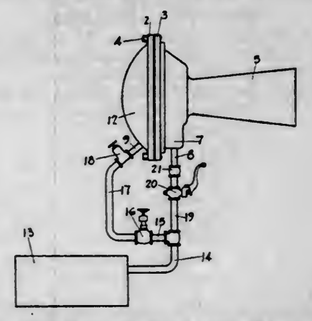
2,281,610
DUST COLLECTOR
John E. Watson, New Rochelle, and Charles B. McBride, Port Chester, N. Y., assignors to Prat-Daniel Corporation, Port Chester, N. Y., a corporation of New York
Application December 21, 1939, Serial No. 310,352
5 Claims. (Cl. 183—83)

1. A centrifugal separator unit which comprises a cylindrical tube open at one end and closed at the opposite end, an off-take tube extending through said closed end and axially into said tube, and terminating short of the open end thereof to form an annular passage near the closed end of said tube, said outer tube having a pair of tangential extensions and inlet openings in the angle within said tangential extensions



at diametrically opposite sides of said tube, said inlet openings having an aggregate width greater than the distance between the outer tube and the off-take tube and having a length greater than approximately one-third of the distance from the open end of said tube to the farther ends of said openings, said outer tube having an unbroken wall between said inlet openings.

2,281,611
DIAPHRAGM WHISTLE
Robert Longfellow Williams, Newton, Mass., assignor to Submarine Signal Company, Boston, Mass., a corporation of Maine
Application December 14, 1937, Serial No. 179,734
7 Claims. (Cl. 116—142)



1. A diaphragm whistle comprising a casing, a flexible diaphragm mounted in said casing, a fluid pressure chamber on one side of said diaphragm, a horn chamber open to the atmosphere on the same side of said diaphragm having a passage communicating with said first chamber, said passage being adapted to be opened and closed by the vibration of the diaphragm, a fluid pressure chamber permanently closed to the outer atmosphere on the opposite side of the diaphragm formed in part thereby, whereby fluid pressure in the latter chamber acts directly on the diaphragm and means for supplying fluid under pressure greater than atmospheric to both fluid pressure chambers.

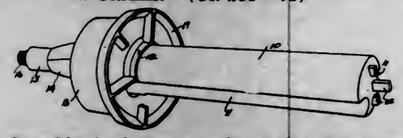
2,281,612
IODINE COMPOUND AND METHOD FOR PRODUCING THE SAME
Paul John Witte, New York, N. Y., assignor to Tyler Laboratories, Incorporated, Brooklyn, N. Y., a corporation of New York
No Drawing. Application December 12, 1939, Serial No. 308,777
6 Claims. (Cl. 167—70)

6. A stable aqueous solution of chemically-combined iodine and free iodine, including in combination: an aqueous solution of the reaction product of iodine and amino-acetic acid; free iodine; and an acidity-reducing agent selected from the group consisting of alkaline salts of alkali metals and alkaline-earth metals; the resultant aqueous solution being characterized by substantial freedom from caustic soda in the form of sodium hydroxide and from foreign organic matter to thus guard against the undue formation of deleterious iodine compounds such as iodoform created by the combination of such foreign organic matter with the said free iodine constituent.

2,281,613
POLYMERIZING BUTADIENE HYDROCARBONS
Heinz Wollthan, Marl-Drewer, and Wilhelm Becker, Cologne-Mulheim, Germany, assignors to Jasco Incorporated, a corporation of Louisiana
No Drawing. Application March 13, 1941, Serial No. 383,158. In Germany September 29, 1937
9 Claims. (Cl. 260—32)

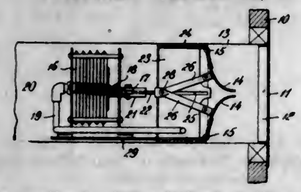
1. The process which comprises polymerizing a material selected from the group consisting of butadiene-1.3 hydrocarbons and mixtures of butadiene-1.3 hydrocarbons with copolymerizable compounds having a single C=C double linkage in aqueous emulsion in the presence of mercaptanes having at least 6 carbon atoms in aliphatic linkage.

2,281,614
CABLE TOOL REAMER
Casper J. Ogran, Milwaukee, Wis., assignor to Lagne and Bowler, Incorporated, Memphis, Tenn., a corporation of Delaware
Application October 7, 1940, Serial No. 360,053
2 Claims. (Cl. 255—73)



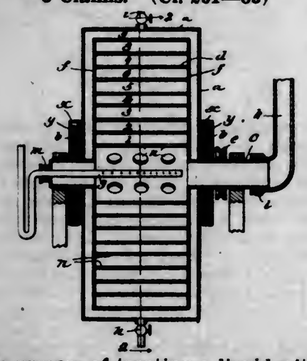
1. A cable tool reamer, for enlarging a preformed vertically disposed bore hole, said reamer comprising a head and an integral pilot shank depending below said head and adapted for reciprocation in said bore hole, said head being of circular conformation and having a diameter substantially greater than the diameter of said shank, said head having on its underside an integral downwardly depending peripheral skirt, forming a peripheral cutter, and a plurality of integral radial cutters joined to said skirt and extending inward therefrom toward said shank; said shank being cylindrical, of substantially uniform diameter throughout its length and concentric with said head, and having a length substantially greater than the working stroke of said tool and greatly elongated relatively to the diameter of said bore, a major portion of said shank conforming in size and shape to said bore and said shank having a groove for the discharge of reamer dislodged chips, extending through said head and downward therefrom throughout the full length of said shank.

2,281,615
METHOD AND APPARATUS FOR AIR CONDITIONING
Gustave Adolphus Peple, Jr., Richmond, Va.
Application August 9, 1939, Serial No. 289,136
8 Claims. (Cl. 98—40)



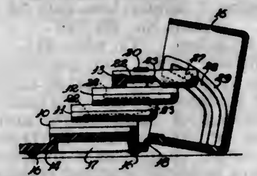
1. The method of conditioning the air within a room or space which comprises supplying treated air from a source of supply to said room in a stream of predetermined direction, maintaining said supply at a constant static pressure, positively varying the volume of treated air in said stream in response to controls located in the room so as to maintain a predetermined atmospheric condition within the room, and maintaining the velocity and direction of the stream of treated air constant and free from eddy currents independently of the volume of air in said stream.

2,281,616
PROCESS AND APPARATUS FOR TREATING LIQUIDS WITH A GASEOUS MEDIUM
Adolph Placek, Jackson Heights, N. Y.
Application March 1, 1937, Serial No. 128,521
3 Claims. (Cl. 261—83)



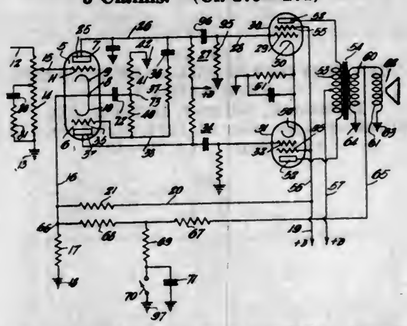
1. The process of treating a liquid with a gaseous medium consisting in causing the flow of the liquid to be treated from an intake to an outlet by centrifugal force and causing the gaseous medium to flow in a counter-direction for contacting said liquid, and breaking the flow of the liquid by spaced concentric cylindrical surfaces having staggered closely spaced openings throughout the entire extent of the cylindrical surfaces, said openings being dimensioned so as to permit the liquid and gas to pass in a free unobstructed counter-current through the same openings, said liquid moving at all times in jets through the openings from one surface into contact with the next outwardly adjacent surface so as to flow along the same in a film to an outlet opening in said surface.

2,281,617
CIGARETTE CHEST
Bentley Franklin Ramsdell, Geneva, Ill.
Application October 21, 1939, Serial No. 300,541
11 Claims. (Cl. 206—1)



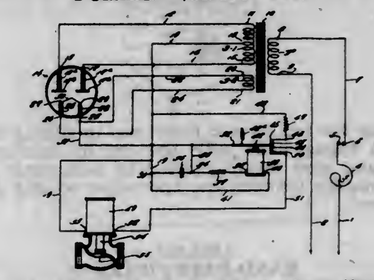
1. A chest for cigarettes or the like comprising, in combination, a series of flat trays arranged in face-to-face relation, each of said trays having a plurality of parallel recesses therein open at one edge of the tray to receive cigarettes or the like, means for guiding and confining said trays for rectilinear movement with respect to each other in a direction paralleling said recesses from a position of registering relation in which each tray covers the recessed face of the next tray in the series to one of terraced relation in which each tray is laterally offset from the next to expose portions of said recesses for the removal of the cigarettes or the like stored therein, a casing for said series of trays including a hinged casing member, and means for shifting said trays from registering relation to terraced relation and vice versa in response respectively to movement of said hinged member from closed to open position and vice versa.

2,281,618
INVERSE FEEDBACK AMPLIFIER
James M. Riddle, Jr., West Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 31, 1939, Serial No. 287,612
3 Claims. (Cl. 179—171)



1. In an audio frequency amplifier, the combination of an output transformer having a secondary winding provided with a chassis ground connection and a feedback connection lead, a pair of amplifier tubes having a common cathode connection to chassis including a biasing resistor connected at the cathode end with said feedback lead, means in said feedback lead for controlling an inverse feedback voltage therethrough, means for providing a bleeder current through said cathode resistor whereby for a predetermined bias potential the resistance to chassis of said resistor may be relatively low, means providing a circuit between said amplifier tubes for effecting phase inversion of an applied signal potential, and means including a filter in said last named connection for preventing inverse feedback potential from said common cathode connection from initially reaching said inverter stage, thereby to prevent distortion of an applied signal through said amplifier.

2,281,619
MEANS FOR THERMOSTATICALLY CONTROLLING GAS FIRED HEATERS AND THE LIKE
Clifford R. Roberts, Brighton, Mich.
Application February 15, 1939, Serial No. 256,605
4 Claims. (Cl. 175—363)



1. In combination, a source of alternating current, an electronic rectifier tube, an electromagnetic switch having a single pole double throw element, said electromagnetic switch having one end of its movable arm connected, by wire, to one terminal of the said rectifier tube, the opposite end, of said movable arm being provided with suitable contact points for alternately connecting and disconnecting a phantom load circuit and a bona fide load circuit to the direct current output of the said rectifier tube, the said phantom load circuit and the said bona fide load circuit not being connected to the said rectifier tube circuit simultaneously, the said movable arm being so constructed that simultaneous connection of two circuits is prevented, the said electromagnetic switch to become operative at a predetermined voltage whereby the movable arm is made to change from one position to another position under the magnetic influence of an operating winding, said winding being of high resistance and connected, by wire, across the output of said rectifier tube, the said movable arm, upon deenergization of said operating winding, is made to change from one position to another position by the influence of a spring attached thereto, the said spring action providing a means for disconnecting the bona fide load circuit and providing for connecting the phantom load circuit to the direct current output of the said rectifier tube, the returns of said circuits being connected, by wires, to the mid tap of a supply transformer whose opposite ends of a secondary winding are connected, by wires, to the two anodes of said electronic rectifier tube, the cathode element of said electronic rectifier being considered as output terminal.

2,281,620
RECEPTACLE DISCHARGE CAP
Herman W. Rueger, Lancaster, Pa., assignor to Liberty Can and Sign Company, a corporation of Pennsylvania
Application December 9, 1939, Serial No. 308,469
9 Claims. (Cl. 221—64)

9. A receptacle closure comprising an inner cap having a top, an eccentrically apertured skirt depending from said top, and a shell segment attached in radially outwardly spaced re-

lationship to said skirt, and having circumferentially opposed substantially axially extending end edges, in combination with an outer cap having an eccentrically apertured top, means for main-



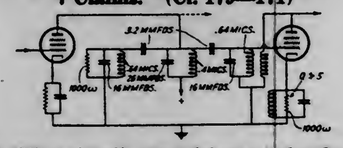
taining the top of said outer cap in sliding frictional engagement with the top of said inner cap, and stop means carried by said outer cap for rotation between the end edges of said shell segment.

2,281,621

BAND-PASS FILTER

Noël Meyer Rust, Chelmsford, Joseph Douglas Brailsford, London, and Ernest Frederick Goodenough, Springfield, Chelmsford, England, assignors to Radio Corporation of America, a corporation of Delaware

Application April 30, 1941, Serial No. 391,205
In Great Britain October 5, 1939
7 Claims. (Cl. 178—171)



3. A filter circuit comprising a valve having a tuned anode circuit, a parallel tuned circuit having a positive effective parallel resistance connected to said anode circuit over one quarter wave line and a further parallel tuned circuit having a negative effective parallel resistance connected to said anode circuit over a second quarter wave length line.

2,281,622

SATURATED AND UNSATURATED DERIVATIVES OF THE 3-KETO-CYCLOPENTANOPOLYHYDROPHENANTHRENE SERIES

Leopold Ruzicka, Zurich, Switzerland, assignor, by mesne assignments, to Ciba Pharmaceutical Products, Incorporated, Summit, N. J., a corporation of New Jersey

No Drawing. Application July 25, 1938, Serial No. 221,228. In Switzerland July 26, 1937
4 Claims. (Cl. 260—397.1)

1. Saturated and unsaturated derivatives of the 3-keto-cyclopentanopolyhydrophenanthrene series, containing in α-position to the 3-keto-group the atomic grouping



wherein x represents a member of the group consisting of hydrogen, a hydroxyl group, an alkoxy group, a hydrocarbon group, a carboxylic acid group and a group which on hydrolysis will yield a carboxylic acid group.

2,281,623

LUBRICATING OIL COMPOSITION

John E. Schott, New York, N. Y., assignor to Tide Water Associated Oil Company, Bayonne, N. J., a corporation of Delaware

No Drawing. Application July 30, 1941, Serial No. 404,720
9 Claims. (Cl. 252—37)

1. Substantially liquid and non-stringy lubricating oil for internal combustion engines operating at high sustained speeds and under extreme service conditions of temperature and pressure such as may be encountered in Diesel engine lubrication, which comprises a hydrocarbon lubricating oil of suitable nominal viscosity for an intended service compounded and heated with small amounts of an aluminum soap of a saturated fatty acid and a compound selected from the class consisting of glycol mono-ethers and diglycol mono-ethers in proportions such that the normal viscosity of the oil is not increased beyond a reasonable and desirable degree for its intended service, the aluminum soap being introdueed in an amount not less than one per cent.

2,281,624

WATER-SOLUBLE MOTHPROOFING AGENTS

Heribert Schüssler, Cologne, and Walther Retter, Cologne-Deutz, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application January 11, 1939, Serial No. 250,336. In Germany January 15, 1938
15 Claims. (Cl. 167—37)

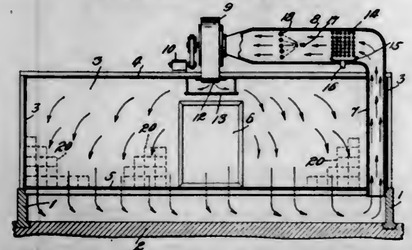
1. Water-soluble moth-proofing agents comprising acid mineral acid esters of water-insoluble moth-proofing agents containing at least two free phenolic hydroxy groups which are esterified by an acid selected from the group consisting of phosphoric and sulfuric acid.

2,281,625

METHOD OF COLORING FRUITS AND VEGETABLES

Bronson C. Skinner, Dunedin, Fla.

Application September 24, 1941, Serial No. 412,079
13 Claims. (Cl. 99—103)



1. Method of coloring fruits and vegetables which comprises placing same in a substantially air-tight room, admitting live steam to said room for a period of time sufficient to raise the contents of the room at least to the wet bulb equivalent of the temperature at which the room is to operate, then discontinuing the admission of said steam and raising the dry bulb temperature of the room to the point at which the room is to operate while continuously recirculating the heated gases through the room, and continuously removing moisture from said room in amounts

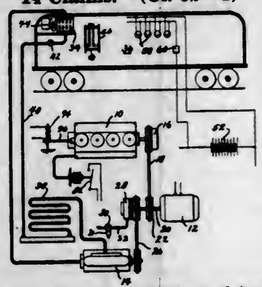
sufficient to prevent the temperature of the room from exceeding a predetermined maximum temperature.

2,281,626

REFRIGERATING APPARATUS

Harry F. Smith, Lexington, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application March 31, 1939, Serial No. 265,284
14 Claims. (Cl. 62—4)



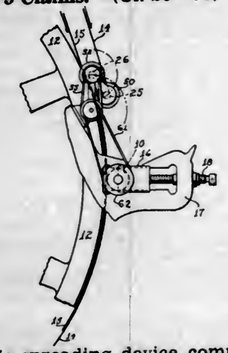
8. In combination, a volatile refrigerant evaporator, a condenser, a compressor, refrigerant flow connections between said evaporator, condenser and compressor, a battery, a dynamo-electric machine for operating said compressor, means for energizing said dynamo-electric machine as a motor from said battery, temperature responsive means for varying the speed of said motor, means for operating said dynamo-electric machine as a generator for charging said battery, and means responsive to the output of said generator controlling the speed of said last named means.

2,281,627

FABRIC SPREADING DEVICE FOR TEXTILE TREATING MACHINES

Herman A. Smith, Holden, Mass., assignor to Rice Barton Corporation, a corporation of Massachusetts

Application August 15, 1940, Serial No. 352,751
5 Claims. (Cl. 26—63)



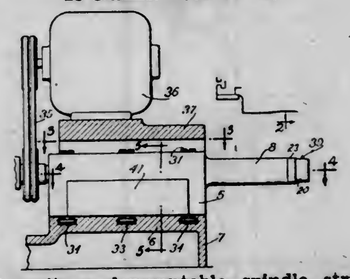
1. A fabric spreading device comprising a roll over which the fabric passes, a frame, two spaced spreaders having left and right handed helical threads arranged for spreading the fabric passing thereover, two supports pivotally connecting these spreaders and permitting revolution of one about the other, and two arms pivotally mounted on the frame and pivotally connected to said supports which hold the two spreaders as a unit in any desired location relative to the roll, said parts being so constructed and arranged that the fabric leading to the roll may pass over one spreader and under the other with a desired variable extent of surface contact therewith and with either spreader locatable close to the roll.

2,281,628

SPINDLE STRUCTURE

Ira J. Snader, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan

Original application February 26, 1937, Serial No. 127,967. Divided and this application February 8, 1939, Serial No. 255,175
13 Claims. (Cl. 77—3)



1. A unitary demountable spindle structure comprising, in combination, a transversely narrow rectangular spindle body having relatively thin side walls with flat parallel external side surfaces and relatively thick top and bottom walls, and having an integral tubular extension on one end, antifriction bearings in said body and said extension, and a spindle mounted in said bearings and projecting from said extension.

2,281,629

DEVICE FOR PREVENTING COLIC IN FEEDING INFANTS

William Snow, New York, N. Y.

Application May 21, 1938, Serial No. 209,275
4 Claims. (Cl. 5—327)



1. A device for preventing colic in infants as a result of the manner of feeding, which comprises a posture-defining support for the entire body of the infant, the support being constructed to fix the position of the body of the infant during feeding so that gases formed or trapped by the food entering the stomach will be provided a continuously maintained exit to the esophagus and not to the pylorus, the support comprising a base, and being shaped to provide a substantially horizontally disposed trough above the base and extending from side to side of the base, the trough providing means for receiving and retaining the buttocks of an infant, the trough including a wall extending upwardly from the trough into a surface to provide a rest for the dorsum of the infant, the surface extending from side to side of the base and being disposed at an angle of approximately 60° to the horizontal in its extent from the wall of the trough and at an angle upwardly in its extent from side to side of the base to position the body of an infant resting in the

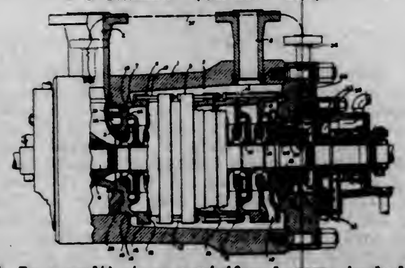
trough so that the entrance to the stomach of the infant through the esophagus is higher than the outlet from the stomach through the pylorus, the trough providing means for holding the body on the surface against sliding downwardly.

2,281,630
SANITARY RECEPTACLE
George W. Southard, Hoquiam, Wash.
Application October 19, 1939, Serial No. 300,283
5 Claims. (Cl. 220—87)



1. A device of the class described comprising a receptacle having a pivoted cover, an atomizer arranged within the receptacle and including a vertically disposed spring-pressed plunger and a discharge nozzle, a horizontal lever pivotally mounted within the receptacle above the atomizer and in alinement with the plunger, and an actuating member secured to the lower surface of the cover and having a cam face disposed in alinement with the lever and adapted to bear against the free end of said lever for depressing the plunger of the atomizer and spraying disinfectant liquid within the receptacle when the cover is moved to closed position.

2,281,631
CENTRIFUGAL PUMP
Max Spillmann, Clifton, and Ralph M. Watson, Bloomfield, N. J., assignors to Worthington Pump and Machinery Corporation, Harrison, N. J., a corporation of Delaware
Application October 6, 1939, Serial No. 298,168
3 Claims. (Cl. 103—112)



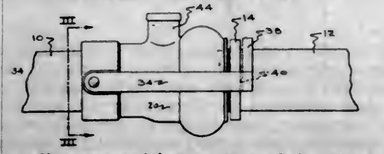
1. In a multi-stage centrifugal pump including a casing, a plurality of stage impellers and an impeller carrying shaft, a pressure break down thrust balancing structure comprising a stationary element carried by said casing and a movable element carried by said shaft, said elements having interengaging projections forming a longitudinal labyrinthian pressure break down passage extending longitudinally of the shaft, said elements having facing surfaces arranged to provide a radial pressure break down passage at the outlet end of said labyrinthian passage, said facing radial surfaces being inclined with respect to a plane perpendicular to the horizontal plane of the axis of said shaft to prevent constriction of the area of the radial break down upon flexing of said shaft.

2,281,632
JACKET FOR DRILL PIPE COUPLINGS
Robert Alexander Steps, Los Angeles, Calif.
Application December 5, 1939, Serial No. 307,708
11 Claims. (Cl. 308—4)



1. A rigid metallic jacket for a drill pipe coupling of the cylindrical type that has two internally threaded ends, said jacket comprising a plurality of arcuate longitudinally extending sections of rigid metal externally surrounding the coupling and presenting an external substantially cylindrical wear surface having no substantial protrusion extending outward therefrom, the longitudinal edges of the adjacent jacket sections being relatively close to each other where they overlie the threaded end portions of the coupling to facilitate the deposit of welding metal along these relatively close portions of said edges to weld the sections together without welding them to the coupling near the threaded end portions of the coupling, but said longitudinal edges of the adjacent jacket sections being relatively further from each other where they overlie the medial portions of the coupling away from the coupling ends to facilitate the deposit of welding metal in this medial area to weld said sections to the coupling to make the jacket a unitary part of the coupling.

2,281,633
PIPE AND COUPLING
William E. Stitzer, Muskogee, Okla., assignor to Latch Coupling Company, Muskogee, Okla., a corporation of Oklahoma
Application January 15, 1940, Serial No. 313,811
1 Claim. (Cl. 285—170)



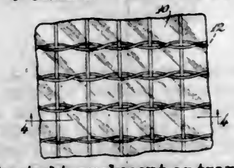
A coupling comprising male and female parts having their terminal portions in substantial telescoping relation, a seal carried by said female part and spaced inwardly from its end and embracing said male part at a point spaced inwardly from its end, said female part being enlarged beyond said seal to provide clearance for the end of said male part in all positions of permitted angular adjustment between said parts, an annular shoulder defined by the outer surface of the terminal portion of said female part and spaced outwardly from said seal, an annular exterior flange upon said male part spaced inwardly from that portion embraced by said seal and in axial alignment with said shoulder upon said female part and engageable therewith to limit the telescoping relation of said parts, said telescoping terminal portions being loosely fitted to permit angular adjustment between said parts, a swinging latch pivoted at one end to said female part and having clearance with said flange on said male part, with the latter directly adjacent said shoulder to enable the latch to be swung into position back of said flange to prevent separating movement of said parts, said latch being so proportioned and positioned behind said flange as to confine said flange sufficiently adjacent said shoulder as to limit the angular movement of said parts through engagement of said flange between said latch and said shoulder, whereby binding action between the terminal portions of said parts is avoided upon angular adjustment of said parts.

2,281,634
PRODUCTION OF SPRAY METAL NEGATIVES OF MODELS
Max Stössel, New York, N. Y., assignor to Otto Stossel, Chicago, Ill.
Application May 29, 1940, Serial No. 337,787
2 Claims. (Cl. 22—200)



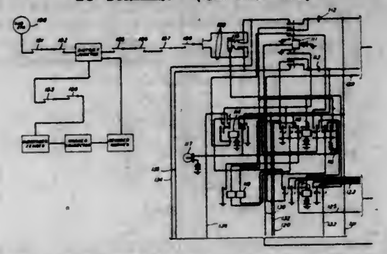
1. Method of preventing warping in the manufacture of a spray metal negative of a model adapted to be coated with spray metal, which comprises applying to such model, including the marginal edge thereof a relatively thin coherent coat of spray metal, at least part of said coat being so bonded as to be strippable from said model, continuing the spraying of said coat over and below said edge to points inwardly therefrom so as to form a spray metal frame of substantially trough-shaped cross-section, substantially along and around said edge, spraying additional metal onto said coat until the model is covered with metal to the desired thickness, removing the spray metal shell thus formed overlying said model and recovering a substantially accurate non-warped spray metal negative of said model.

2,281,635
PLASTIC FILM MATERIAL
Charles Strauss, Chicago, Ill., assignor to Arvey Corporation, Chicago, Ill., a corporation of Illinois
Application August 7, 1941, Serial No. 405,827
6 Claims. (Cl. 154—46)



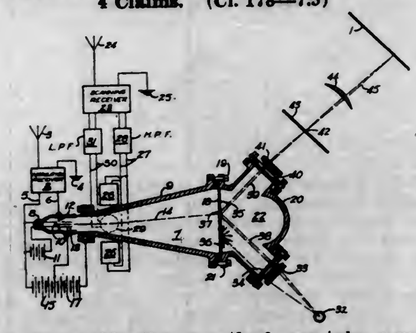
1. A laminated translucent or transparent composite film material comprising a pair of opposed surface plastic films and a substantially co-extensive reinforcing strata formed of an open fabric of non-fibrous plastic strands, said strata being bonded between said films and said films being bonded together in the openings between the said strands.

2,281,636
TANDEM TELEPHONE SYSTEM
Walter B. Strickler, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 31, 1940, Serial No. 372,580
13 Claims. (Cl. 179—27)



1. In a telephone system, an originating office, a tandem office, a terminating office, switching equipment at each of said offices, registering devices at each of said offices, means in the registering device at said originating office for recording a telephone designation comprising an office designation and a numerical designation, means for transmitting a registration based on said office designation to said tandem office registering device, means at said tandem office registering device for receiving said registration and for identifying the nature of the terminating office, and means under the control of said identifying means for determining whether the numerical designation registered on the registering device of said originating office shall be transmitted by said originating office registering device to said tandem office or to said terminating office.

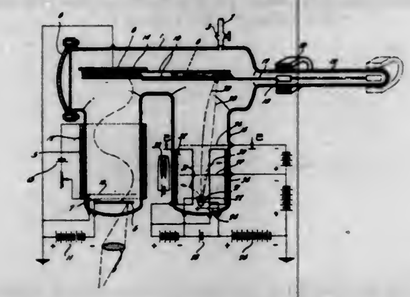
2,281,637
CATHODE RAY TELEVISION RECEIVER
Thomas W. Sukumlyn, Los Angeles, Calif.
Application April 2, 1938, Serial No. 199,667
4 Claims. (Cl. 178—7.5)



1. In combination, a cathode ray tube, a member having a specular reflecting surface, and in the path of the ray, means for scanning said member by the ray, a source of illumination for said surface, a volatilizable coating on said member normally obscuring the reflecting surface, and volatilized by the heat of the ray, means

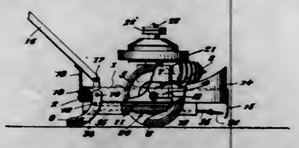
forming a chamber of which said member forms a wall, and in which said coating is volatilized, and means adapted to maintain said member at a temperature below that of the chamber, thereby ensuring that the volatilized matter will recondense on the member.

2,281,638
ELECTRON CAMERA
Thomas W. Sukumlyn, Los Angeles, Calif.
Application May 17, 1940, Serial No. 335,745
11 Claims. (Cl. 250—41.5)



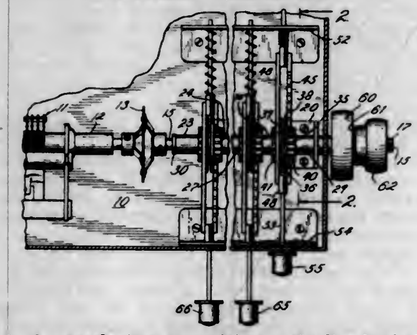
1. In an electron camera, an evacuated vessel, means in said vessel, forming a photo-electric surface, means for focusing an image on said surface to cause emission of photoelectrons therefrom, a member in said vessel, made from insulation material, and capable of receiving said electrons, whereby a negative charge is formed on said member, electric focusing means for causing said electrons to be distributed in a pattern upon said member in conformity with said image, and means forming a source of positively charged particles disposed within the vessel, spaced from said member and so located with respect thereto that the charge on said member is effective to attract particles from said source to the member, whereby said pattern is converted into permanent form.

2,281,639
FLIXI-BAR ROTOR-TYPE LAWN MOWER
James Arthur Swan, Springfield, Mo.
Application March 21, 1941, Serial No. 384,573
6 Claims. (Cl. 56—25.4)



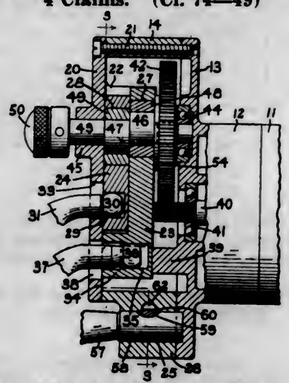
1. In a lawn mower, a carriage, an axle extending transversely of the carriage and rotatably mounted for rocking adjustment, arms at ends of the axle provided with outstanding spindles, supporting wheels carried by said spindles, skids pivoted to said carriage and extending downwardly therefrom, links pivoted to said skids, arms depending from said axle and pivoted to said links, a latch lever for turning the axle and effecting shifting of the carriage vertically to an adjusted position, a motor carried by said carriage and having its shaft disposed vertically, and cutter mechanism carried by the motor shaft and turning therewith in a substantially horizontally plane under the carriage.

2,281,640
PRESELECTOR
Arthur C. Ten Cate, Chicago, Ill., assignor to Oak Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application January 27, 1938, Serial No. 187,176
10 Claims. (Cl. 74—10)



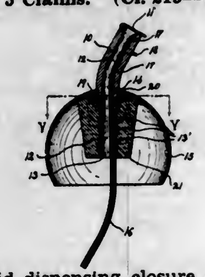
1. A preselector comprising a shaft adapted to be turned to a predetermined position, coupling means rotatably adjustable on said shaft, said coupling means including means adapted to be engaged for turning the coupling means, a gear freely rotatable on said shaft on each side of said coupling means, means actuated by each gear for engaging said gear and said coupling means at predetermined angular positions determined by the relative rotary positions of said coupling means and each gear, and a pair of racks operating as a unit for simultaneously rotating said gears in opposite directions until said gears urge the coupling means in opposite directions with equal force, said opposing forces on said coupling means being the sole means to establish a preselected shaft position and stop the travel of said freely rotatable means.

2,281,641
MECHANISM FOR CONVERTING ROTARY MOTION TO RECIPROCATORY MOTION
Frederick Toop, York, Pa.
Application December 27, 1940, Serial No. 371,874
4 Claims. (Cl. 74—49)



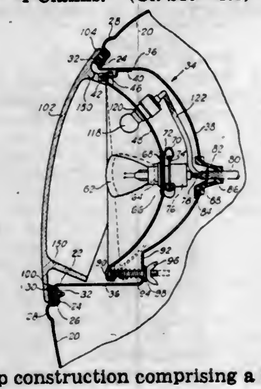
1. In a mechanism for converting rotary motion to reciprocatory motion, the combination of a motor including a motor shaft and also including a casing which has a tool attaching element at its front end, said tool attaching element being adapted to engage with and support a rigid member of a tool that comprises a pair of movable members pivotally connected to the rigid member for cooperation in performing the tool's function, a pair of members mounted in said casing for reciprocative strokes, each reciprocative member having means for operatively connecting a movable member of said tool thereto, an opening formed in each reciprocative member, and a shaft operatively connected with said motor shaft and having two eccentrics thereon mounted respectively within the openings of said reciprocative members, said eccentrics being located at diametric points with respect to the longitudinal center line of said shaft so that said members will be simultaneously operated to move the movable tool members in opposite directions with respect to said rigid tool member.

2,281,642
DISPENSING AND BOTTLE CLOSURE DEVICE
Herman Ulanet, Newark, N. J.
Application August 2, 1940, Serial No. 349,809
5 Claims. (Cl. 215—79)



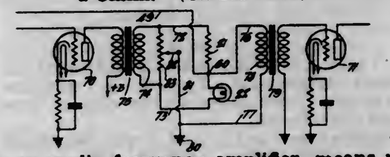
1. A liquid dispensing closure device comprising, a spout having a dependent exteriorly roughened shank provided with a shoulder at the juncture thereof with said spout, a hollow cap perforated to receive said shank and abut said shoulder, a perforate lock washer engageable over said shank and against the interior of said cap, said washer having resilient gripper means to grip the roughened exterior of said shank to hold said washer against displacement from supporting engagement with said cap, and a stopper body affixed to and around said shank below said washer and within said cap.

2,281,643
HEAD LAMP
Nils Erik Wahlberg, Kenosha, Wis., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland
Application February 15, 1939, Serial No. 256,424
4 Claims. (Cl. 240—8.1)



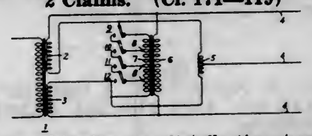
1. Lamp construction comprising a fender having a flange defining an aperture in its forward portion, a casing having an open forward end provided with a flange for mating with said fender flange, a lens closing the open end of said casing, a gasket interposed between and sealing the joint between said casing and said lens, the abutting portions of said casing flange, fender flange, gasket and lens edge lying in parallelism to one another entirely around the periphery of said lamp, and clamps secured to said fender and arranged to hold said lens against said casing.

2,281,644
INVERSE FEEDBACK AMPLIFIER
Paul Weathers, Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 31, 1939, Serial No. 292,910
1 Claim. (Cl. 179—171)



In an audio frequency amplifier, means providing an interstage coupling network, including a signal conveying circuit, a potentiometer resistor connected across said circuit, a second resistor and a filamentary resistor responsive to current flow to vary the resistance thereof connected serially across said circuit in parallel with said potentiometer resistor, and an inverse feedback circuit and an output circuit connected with said potentiometer resistor and with the junction of said second named resistor and filamentary resistor, whereby said last named resistor is included in said output circuit and in said feedback circuit as a current responsive variable resistance device effective to provide volume range compression and output potential variation in response to variation in signal amplitude from a level determined by said potentiometer resistor.

2,281,645
VOLTAGE REGULATOR
James M. Weed, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 23, 1940, Serial No. 362,399
2 Claims. (Cl. 171—119)

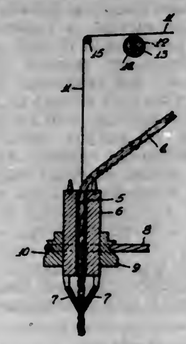


1. In combination, a distribution transformer having a two-part secondary winding, means for connecting said parts in series and providing a neutral for said secondary winding comprising a mid-tapped autotransformer having its end terminals connected one to a terminal of each of said secondary winding parts, a load circuit connected to the remaining terminals of said secondary winding parts, means for regulating the voltage of said load circuit comprising a regulating transformer excited from said load circuit, said regulating transformer having a maximum output voltage which is a relatively small percentage of the voltage of said secondary winding, and means for connecting the output voltage of said regulating transformer across said autotransformer.

2,281,646
METHOD OF MAKING STIFFENED FABRICS
William Whitehead, Rye, N. Y., assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application September 21, 1939, Serial No. 295,905
12 Claims. (Cl. 154—2)

1. In the production of stiffened fabrics by uniting a plurality of layers of fabric at least one of which contains a derivative of cellulose, the combination of the step of rendering adhesive said derivative of cellulose, by exposure to a volatile substance selected from the class consisting of solvents and latent solvents for said derivative of cellulose, said substance being applied solely in the vapor form with the step of uniting the layers of fabric under heat and pressure immediately after the step of rendering adhesive said derivative of cellulose.

2,281,647
YARN AND PROCESS OF MAKING IT
William Whitehead, Rye, N. Y., assignor to Celanese Corporation of America, a corporation of Delaware
Application April 2, 1941, Serial No. 386,450
19 Claims. (Cl. 57—140)



1. Process for the production of a composite spun yarn, which comprises associating a yarn containing some organic derivative of cellulose staple fibers with a finished yarn carrying a softening agent for said organic derivative of cellulose fibers, said finished yarn being substantially unaffected by said softening agent.

2,281,648
PROCESS OF PRODUCING A CHLORINATED MINERAL OIL AND THE OIL RESULTING THEREFROM
Everett R. Wilcs, Barnsdall, Okla., assignor to Barco Oil Company, Tulsa, Okla., a corporation of Delaware
No Drawing. Application January 2, 1936, Serial No. 57,251
6 Claims. (Cl. 260—654)

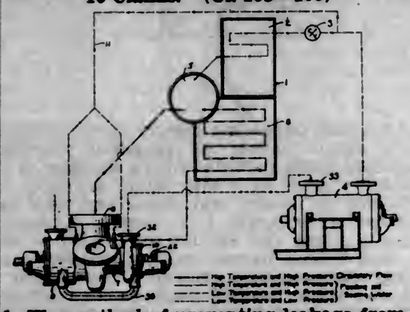
1. The process of preparing a mineral oil suitable for lubricating machinery under normal operative conditions and also under conditions of extremely high temperature and pressure, comprising chlorinating the oil at a temperature less than 50° F., neutralizing the acids in the chlorinated oil by mixing the oil with an alkali solution, stabilizing the oil by heating it with alkali until practically all of the gums and resins settle out, and removing said gums and resins from the oil.

2,281,649
SNAP-ON CLOSURE
John J. Williams, Wheeling, W. Va., assignor to Hazel-Atlas Glass Company, Wheeling, W. Va., a corporation of West Virginia
Application November 7, 1938, Serial No. 239,346
8 Claims. (Cl. 215—38)



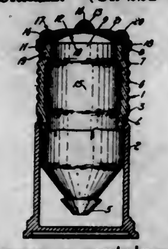
1. A metallic closure having a top portion and a depending skirt portion, an annular groove in the skirt portion, horizontal lugs extending inwardly of said groove and adapted to snap over a bead on a container, and the skirt being flared throughout its periphery below the lugs, for the purpose described.

2,281,650
CIRCULATING PUMP FOR STEAM GENERATORS
George F. Wislicenus, South Orange, N. J., assignor to Worthington Pump and Machinery Corporation, Harrison, N. J., a corporation of Delaware
Application January 27, 1940, Serial No. 315,921
16 Claims. (Cl. 103—105)



1. The method of preventing leakage from the circulating pump which consists in passing the leakage from the circulating pump into a pressure breakdown structure and introducing into the pressure breakdown structure near its high pressure end a sealing liquid of a pressure approximately equal to the pressure of the leakage fluid and at a temperature below the point corresponding to the vaporization temperature of the pressure at the point of the leakage outlet to prevent vaporization of the leakage fluid without appreciably lowering its temperature.

2,281,651
FOOD DISPENSER
Frank E. Wolcott, West Hartford, Conn.
Application December 13, 1938, Serial No. 245,460
5 Claims. (Cl. 221—76)



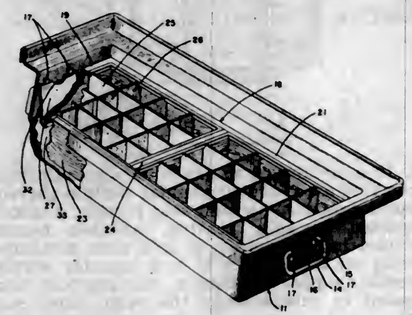
1. In a dispenser, a container having an outlet and an apertured filling portion at opposite ends, a flow controlling resilient disc closing said portion, and an axially apertured enclosing cap clamping said disc on said container, said disc having a resilient dome portion and said cap having an annular portion normally engaging said dome portion.

2,281,652
COFFEE MAKER BOWL SUPPORT
Frank E. Wolcott, West Hartford, Conn., assignor to The Silex Company, a corporation of Connecticut
Application May 17, 1939, Serial No. 274,235
4 Claims. (Cl. 65—65)



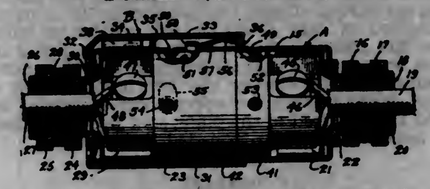
4. For a coffee maker upper bowl having a depending stem, a stem receiving and shrouding bowl support having an open end receiving said stem, an open bottom, internal means separably connected to said support and including a transverse portion intermediate said end and bottom for positioning said stem, and means contained within the bottom of said bowl support and separably connected to said transverse portion for receiving a drip from said stem.

2,281,653
PORTABLE TRAY
John L. Worley, Elmwood Park, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application April 22, 1940, Serial No. 330,925
1 Claim. (Cl. 220—21)



The combination with a rectangular steel tray having bottom and side walls, of a partitioning filler unit supported on said bottom wall comprising an integrally associated plurality of vertical partitioning elements, a perimetric wall section associated with said partitioning elements spaced to provide clearance distances between said perimetric walls and the inner side wall surfaces of said steel tray, and resilient means comprising flared spring plates secured to said filler adjacent the bottom thereof, extending upwardly and under tension against the inner side wall surfaces of said tray, said plates having a cut-out notch in the free edge thereof which engages said tray and continues to a limited extent for providing admittance to a springing tool thereat.

2,281,654
CONNECTOR
William A. Wulle and Henry F. Dake, Chicago, Ill., assignors to The Pyle-National Company, Chicago, Ill., a corporation of New Jersey
Application December 19, 1940, Serial No. 370,750
1 Claim. (Cl. 173—328)



An electric connector comprising a pair of members carrying plug and socket contacts, respectively, and adapted for connection and disconnection by endwise relative movement, an elongated sleeve on one of said members, locking means for normally locking said members in assembled relation and comprising cooperable locking elements, one of said elements being carried by said elongated sleeve, a projection on said one member and abutments on said sleeve for limiting the rotational movement of said sleeve on said one member, a spring extending longitudinally between said sleeve and said one member and achored at its outer end to said sleeve, said spring at its free end having an abutment engageable by said projection to lock said sleeve against axial removal from said one member, and another abutment on said spring engageable with said projection for normally holding said sleeve with said locking means effective to lock said members in assembled relation and whereby said spring will resist rotational movement of said sleeve to unlock said locking means.

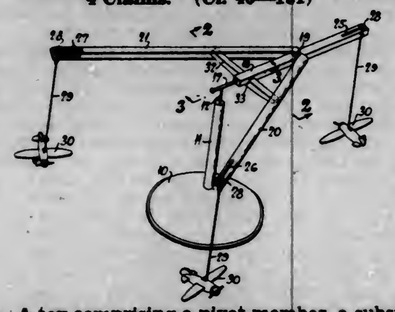
2,281,655
NONSKID DEVICE
John Zippay, Charleroi, Pa.
Application January 23, 1941, Serial No. 375,685
1 Claim. (Cl. 24—234)



In a non-skid device of the character described, a fastener for detachably connecting the end of a side chain with the cross chain of such device, said fastener embodying a rigid plate having integral therewith a shank terminating in a bill portion adapted to be engaged with the end link of a cross chain, a retaining tongue pivoted on said plate and having an end portion engageable with the free end of the bill, a spring in-

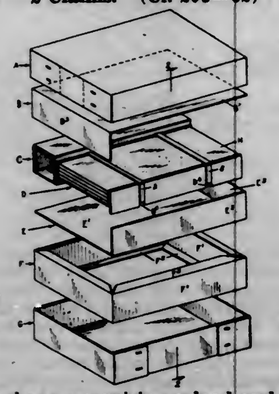
terposed between said shank and said tongue and connected at its opposite ends with said tongue and shank respectively for urging the tongue into a position closing the bill portion of the fastener, said bill portion of the fastener at the free end thereof provided with a socket disposed transversely of said end portion and opening outwardly of said end portion in the general direction of said shank, a pin projecting from the end portion of said tongue and engaging in said socket whan said tongue is in the aforementioned position closing the bill portion; and a split sleeve having the edges thereof formed by said split secured to the plate, said sleeve adapted to have a side chain threaded therethrough.

2,281,656
EDUCATIONAL TOY
George R. Abernethy, Charlotte, N. C.
Application October 4, 1941, Serial No. 413,635
4 Claims. (Cl. 46—131)



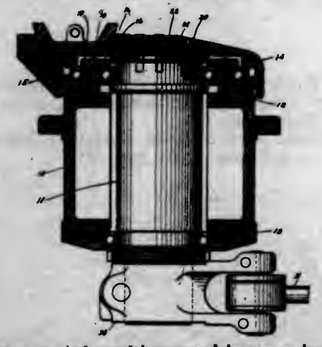
1. A toy comprising a pivot member, a substantially horizontal bar mounted near one end for rotation on said pivot member, a pair of oppositely disposed arms pivotally secured to said bar remotely from said pivot member and having the free ends thereof extending to the opposite side of said pivot member, each of said arms forming an acute angle with that portion of said bar disposed between said pivot member and said arm pivot, and means for adjusting the angularity of said arms relative to said bar.

2,281,657
PACKAGE
Salvatore A. Aquino, Brooklyn, N. Y., assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio, a corporation of Ohio
Application May 4, 1940, Serial No. 333,326
2 Claims. (Cl. 206—62)



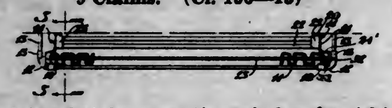
1. A package comprising a load and protection for the same; said load comprising a group of flat articles and another group of articles having flat faces of greater area than said flat articles and with edge flanges transverse to said flat faces, the flat articles being subject to injury by either crushing or abrasion and the flanged articles being subject to injury by abrasion; said protection comprising an outer box, a channel therein, and a saddle; said channel having vertical members fitting inside the outer walls of the package and horizontal members fitting inside the top and bottom walls of the package, said vertical and horizontal members forming upper and lower angles at their intersections; said saddle comprising a horizontal panel suspended between vertical uprights below the tops of said uprights a distance not less than the height of a pile of said flat articles thereon, but above the bottoms of said uprights; said flanged articles being disposed with their flat faces below and above said saddle with the flanges of said articles against said vertical channel members; and spacing means filling the lateral distance from saddle upright to channel which is left on one side because of the less width of the flanged articles than of the articles in the saddle.

2,281,658
BEARING ARRANGEMENT
Harold E. Balsiger, Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa.
Application August 1, 1940, Serial No. 349,035
3 Claims. (Cl. 51—97)



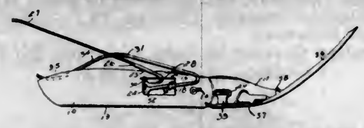
1. In a metal working machine, a spindle housing having an extended annular portion thereon, a bearing mounted within said portion, a spindle supported in said bearing, another bearing mounted independently of said first mentioned bearing on the outside of said annular portion, a member supported thereon, said bearings being disposed in substantially the same axial position.

2,281,659
BRACKET FOR WINDOW FURNISHINGS
Harry G. Balthasar, Cincinnati, Ohio
Application October 1, 1940, Serial No. 359,263
9 Claims. (Cl. 156—13)



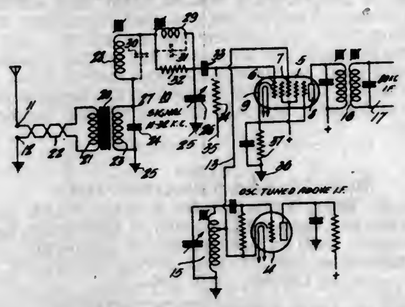
1. A bracket for mounting window furnishings consisting of a sheet metal element having a flange adapted to be attached to the window frame, a portion extending outwardly from the flange adapted to support one end of a Venetian blind head rail, a portion extending at right angles from the last-named portion, a portion extending outwardly from the last-named portion and including means for supporting curtain rods, and a flange turned at right angles to the last-mentioned portion and adapted to support a cornice for concealing curtain rods, head rail, and bracket.

2,281,660
CROP DIVIDER FOR MOWING MACHINES
Alexander John Barr, Carp, Ontario, and Honorius Antoine Arbic, Bristol, Quebec, Canada
Application November 23, 1940, Serial No. 366,922
3 Claims. (Cl. 56—314)



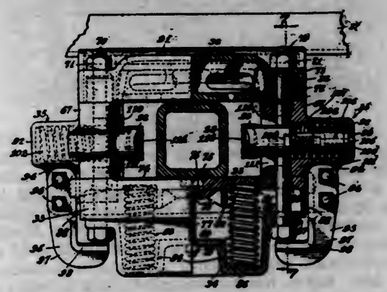
1. In an attachment for mowing machines, the combination with a swath board, of a bracket secured to the outer face of the swath board having a horizontal apron, a divider rod having one end pivotally mounted in an aperture in the apron of the bracket, said end being reversely bent and adjustably secured to the underside of the apron, said divider rod for the greater portion of its length being of less diameter than its attaching end to increase its flexibility, and a guard rod adjustably attached to the vertical face of said bracket and bent to extend angularly and rearwardly from the swath board in crossed relation to said divider rod, said guard being less flexible than said divider rod.

2,281,661
TUNING SYSTEM
Loy E. Barton, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 31, 1941, Serial No. 376,873
6 Claims. (Cl. 250—20)



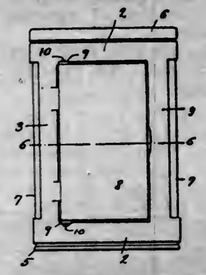
1. In a low frequency superheterodyne tuning system, a tunable signal conveying circuit comprising a signal input inductance, a gain controlling and tuning capacitor connected in shunt therewith, an intermediate frequency attenuating inductance and an image frequency attenuating inductance serially connected in circuit with said first named inductance, a tuning capacitor connected in shunt with said series connected inductances for tuning said circuit in a frequency range lower than the intermediate frequency, means for deriving an output signal across said last named capacitor, and means for applying an input signal to said first named inductance.

2,281,662
CAR COUPLING AND SUPPORTING APPARATUS
Arthur J. Baseley, deceased, late of Shaker Heights, Ohio, by Ruth McKean Baseley, executrix, Shaker Heights, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio
Original application December 5, 1935, Serial No. 53,012. Divided and this application June 8, 1939, Serial No. 278,016
13 Claims. (Cl. 213—21)



1. In combination with a car coupler having a shank, means for attaching one end of said shank to a car for vertical and lateral angling therewith, and means for supporting said shank including means for resiliently opposing movement of the shank in any lateral direction, and means for opposing vertical movement of the shank comprising spring follower members, spring means therebetween and supports engaging said members, said supports serving to hold the means for opposing lateral movement of the shank in assembled position.

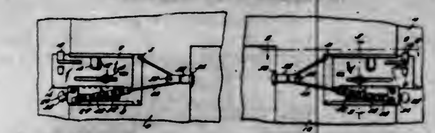
2,281,663
CIGARETTE PAPER HOLDER
Frank Philip Bohr, Chicago, Ill., assignor of one-half to Walter Bohr, Parkston, S. Dak.
Substituted for abandoned application Serial No. 145,844, June 1, 1937. This application September 8, 1941, Serial No. 410,102
4 Claims. (Cl. 206—38)



1. A device for holding cigarette papers and for attachment to a flat tobacco can comprising a substantially rectangular frame including end pairs of opposed hook shaped arms extending laterally therefrom and resilient to take over the side edges of the can with a snap action, a rectangular paper holder adapted for the fitting of a package of cigarette papers therein and to fit into said frame, the holder being hinged adjacent one edge thereof to said frame to swing into and out of the same into open and closed positions, respectively, and a resilient arm extending from said frame and bearing against said edge of the

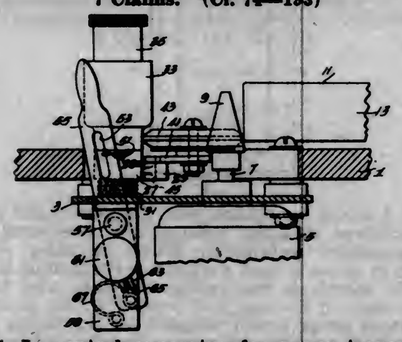
container for coaction therewith to frictionally lock the holder in open and closed positions, respectively.

2,281,664
COMBINED WINDOW SHADE AND CURTAIN ROD SUPPORT
Roland W. Bowser, Red Bank Township, Clarion County, Pa.
Application May 9, 1941, Serial No. 392,799
3 Claims. (Cl. 248—259)



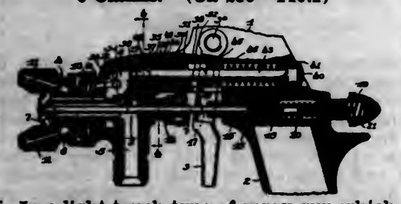
3. A support for mounting on a window frame vertical side member, said support comprising a base plate to lie along the front of said side member, a stationary hook on the end of said base plate to hook around the adjacent edge of said side member, an adjustable hook for hooking around the opposite remaining edge of said side member, and horizontally adjustable means on said base plate having connection with said adjustable hook, said adjustable means being operable to draw the hooks in directions toward each other to supportably clamp the opposite edges of said side member, said adjustable hook comprising a hook element separate from said base plate, a flexible cable threaded through a portion of said hook element, said cable having one end tethered to said base plate and its opposite end tethered to said adjustable means, said adjustable means comprising a screw follower to which said opposite end of the cable is tethered, and a horizontal rotary screw mounted on said base plate for operating said follower, said follower having a detent lug and connecting means on the said remaining end of said cable, said connecting means comprising a bar having longitudinally spaced detent lug receiving openings for selective employment.

2,281,665
PHONOGRAPHIC APPARATUS
Raymond F. Brady, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 30, 1939, Serial No. 297,201
7 Claims. (Cl. 74—193)



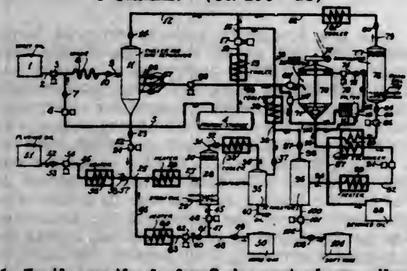
1. In control apparatus for power transmission mechanism having a driving member and a driven member at least one of which has a surface of varying diameter, and a friction idler adapted to be interposed between said members, the combination of supporting means, a pair of relatively movable devices associated with said idler and movably carried by said supporting means, said devices being movable bodily as a unit to provide a relatively coarse adjustment of said idler along said members to provide an approximate speed adjustment for said driven member, and one of said devices being adjustable relative to the other of said devices to provide a relatively fine adjustment of said idler along said members whereby to provide a more exact speed adjustment of said driven member.

2,281,666
VALVE CONTROL MEANS FOR SPRAY GUNS
Svend Bramsen, Chicago, and William B. MacMartin, Lombard, Ill., assignors to Binks Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application October 25, 1939, Serial No. 301,112
6 Claims. (Cl. 299—140.1)



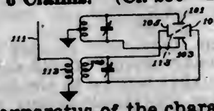
5. In a light touch type of spray gun which has air and material passages with spring pressed valves for controlling them, and a trigger means for operating the valves; a controlling device comprising an air valve chamber provided with an outlet port with a narrow seat at an end of the chamber and sealing and guiding means at the other end of the chamber, an air valve slidable in said latter means and having an end thereof extending in said chamber, said valve end having a tapered portion of steep pitch for seating on said port seat when closed and for direct action of the air thereagainst when open, said sealing and guiding means comprising a sealing ring at said other end of the chamber and having sealing and guiding contact with the valve, a holding ring spaced from said sealing ring, means fixed to the gun and contacting the holding ring for limiting its movement, and a spring between said rings and acting thereagainst to hold them in place, said fixed means being in the form of a cross pin secured in the body of the gun and lying adjacent an end of said holding ring.

2,281,667
METHOD FOR TREATING OILS
Ulric B. Bray, Palos Verdes Estates, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Application July 22, 1933, Serial No. 681,726
3 Claims. (Cl. 196—18)



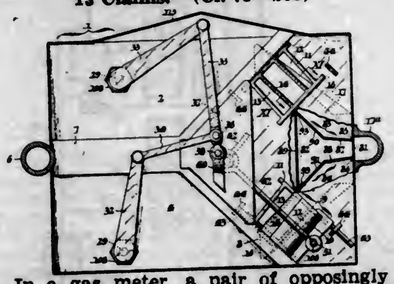
1. In the method of refining petroleum oil containing paraffin waxes, the steps which comprise, mixing the oil with liquefied hydrocarbon gases having a vapor pressure greater than atmospheric at ordinary atmospheric temperature, cooling the mixture to a temperature sufficient to congeal the wax content, passing the cooled mixture through a settling tank to thereby separate high melting wax from the oil mixture by settling, passing the oil mixture from the settling tank, and then separating the remaining portion of the wax content by filtration.

2,281,668
APPARATUS AND METHOD FOR ADJUSTING TRANSMITTING ANTENNAS
George H. Brown, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 13, 1935, Serial No. 35,919
6 Claims. (Cl. 250—11)



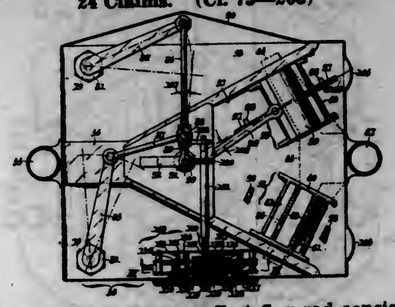
1. In an apparatus of the character described, a resonant balanced loop antenna, a vertical antenna, a resonant circuit coupled to said vertical antenna, said coupling being the sole means of applying energy to said resonant circuit, a cathode ray tube having two pairs of deflecting electrodes, connections from one pair of said electrodes to said resonant loop antenna, and connections from the resonant circuit coupled to said vertical antenna to the second pair of deflecting electrodes.

2,281,669
GAS METER
William Laird Brown, Lansdowne, Pa.
Application August 25, 1939, Serial No. 291,843
13 Claims. (Cl. 73—268)



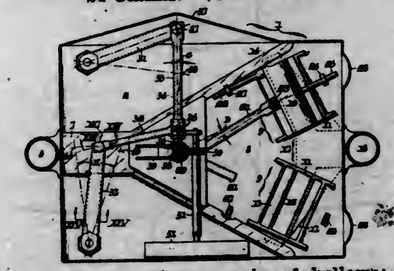
1. In a gas meter, a pair of opposingly arranged bellows; valves, consisting of slide covers, and seats for controlling flow of gas into and out of the bellows; mechanism deriving movement from the bellows for actuating the valves, including a valve crank shaft, a tangent arm on the shaft, front and rear flag rods, front and rear flag arms on the rods connected by front and rear links to the tangent arm, and crank arms connecting the valve crank shaft with the valves; so arranged that a line drawn from one extreme position of a flag arm bearing axis to the valve crank shaft axis forms an acute angle with a line drawn from the other extreme position of the same flag arm bearing axis to the valve crank shaft axis, said acute angle being substantially equal to the angles between a crank arm and the corresponding axis of valve cover motion when the valve cover is in admission positions.

2,281,670
GAS METER
William Laird Brown, Lansdowne, Pa.
Application February 19, 1940, Serial No. 319,570
24 Claims. (Cl. 73—268)



1. In a gas meter, an offset flag rod consisting of two generally U shaped components, the legs of the said U shaped components being respectively in lapping relation to each other and fastened together, so as to form two transverse portions connecting two substantially vertical portions of the flag rod.

2,281,671
GAS METER
William Laird Brown, Lansdowne, Pa.
Application March 6, 1940, Serial No. 322,432
24 Claims. (Cl. 73—268)

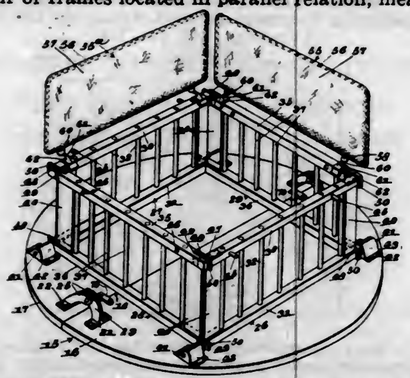


1. In a gas meter, a pair of bellows; slide valves, comprising valve covers, and valve seats with case and diaphragm ports of unequal width, for controlling flow of gas into and out of the bellows; mechanism deriving movement from the bellows for actuating the valves, including a valve crank shaft, a tangent arm on the shaft, front and rear flag rods, front and rear flag arms on the rods connected to the tangent arm by links, and crank arms connecting the valve crank shaft with the valve covers, such that lines drawn from the valve crank shaft axis to the extreme positions of the flag arm bearing axes respectively form acute angles, said acute angles being substantially less than the angles between a crank arm and the corresponding axis of valve cover motion when the valve cover is in admission positions: whereby synchronism of the movements of bellows and valves is produced.

2,281,672
COMBINED PLAY PEN AND TABLE
Michael K. Buchanan, Norfolk, Va.
Application October 25, 1939, Serial No. 301,291
8 Claims. (Cl. 5—99)

1. A play pen comprising a base member formed of a pair of sections, means for connecting the inner edges of the sections together, a pair of

frames and means for hingedly mounting each frame on a section in parallel relation, a second pair of frames located in parallel relation, means



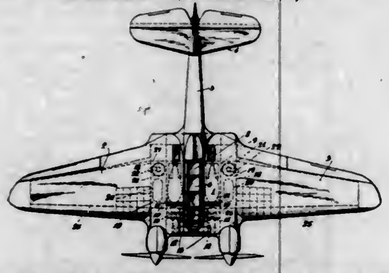
removably connecting the second mentioned frames with the ends of the first mentioned frames, the base member extending beyond the confines of the frames.

2,281,673

MILITARY AIRPLANE

Vincent J. Burnelli, Keyport, N. J., assignor to Central Aircraft Corporation, a corporation of Delaware

Application May 11, 1939, Serial No. 272,967
2 Claims. (Cl. 244—117)



1. In an airplane, a lift producing and load containing central section of airfoil contour, means defining an intermediately disposed compartment in said central section extending therein substantially from the leading edge to the trailing edge thereof and of a width substantially less than one-half the overall width of said central section, a hatch for said intermediate compartment extending thereover above the major portion of the upper surface of said central section, and means defining further compartments entirely within and enclosed by said central section and laterally disposed therein with respect to said intermediate compartment and extending within said central section substantially from the leading edge to the trailing edge thereof, and fore and aft spaced bulkhead structures extending spanwise through said compartments and provided with centrally disposed complementary arch members for supporting said hatch therebetween.

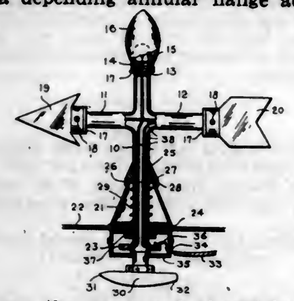
2,281,674

AUTO DIRECTION SIGNAL

William Carson, Vancouver, British Columbia, Canada

Application May 1, 1939, Serial No. 271,144
1 Claim. (Cl. 116—46)

In a direction signal for vehicles comprising a hollow conical shaped base secured to the top of the vehicle, a rotatable hollow standard extending through said base and the top of the vehicle, signalling means on the upper end of said standard, a hand grip on the lower end of said standard, a collar on said standard above said base having a depending annular flange adapted to



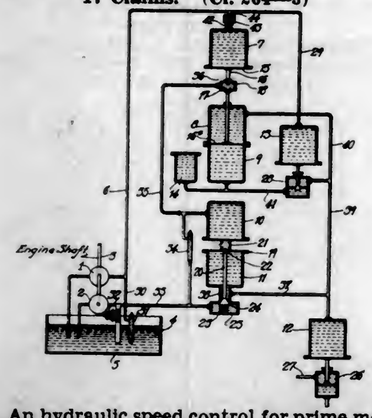
engage over the upper end of said base, a pin protruding from the flange of said collar adapted to engage in notches formed in the upper edge of said base, and a contractile spring mounted on said standard within said base having one end attached to said collar and its opposite end to the bottom of said base.

2,281,675

HYDRAULIC SPEED CONTROL SYSTEM FOR PRIME MOVERS

Paul A. Condit, Mount Vernon, Ohio, assignor to Cooper-Bessemer Corporation, Mount Vernon, Ohio, a corporation of Ohio

Application January 20, 1940, Serial No. 314,739
17 Claims. (Cl. 264—3)



1. An hydraulic speed control for prime movers, comprising: a first source of hydrostatic pressure varying as a continuous function of the prime mover speed, an auxiliary source of pressure, a throttling valve responsive to said auxiliary source, a speed regulating valve having closure and orifice members resiliently supported on pressure actuated diaphragms, means for causing one of said members to respond to variations in pressure of said first source for correspondingly varying hydrostatic pressure applied from said auxiliary source to said throttling valve, and means for causing the other of said members to respond to changes in pressure applied to said throttling valve from said auxiliary source for controlling the rate of change in pressure applied to said throttling valve.

2,281,676

TURBINE OIL

Elmer William Cook, New York, N. Y., assignor to Tide Water Associated Oil Company, Bayonne, N. J., a corporation of Delaware

No Drawing. Application July 8, 1939, Serial No. 283,379
5 Claims. (Cl. 252—56)

1. Turbine oil composition comprising a hydrocarbon mineral oil, an oxidation inhibitor and an inhibitor effective to retard corrosion of turbine parts by entrained water.

2,281,677

THIOCYANOMETHYL DERIVATIVES OF PHENYL ETHERS

W E Craig, Philadelphia, and William F. Hester, Drexel Hill, Pa., assignors to Röhm & Haas Company, Philadelphia, Pa.

No Drawing. Application March 26, 1940, Serial No. 326,044
5 Claims. (Cl. 260—454)

1. Thiocyanomethyl derivatives selected from the group consisting of thiocyanomethyl phenoxybenzenes and thiocyanomethyl phenylthiobenzenes wherein a thiocyanomethyl group is attached directly to an aromatic nucleus.

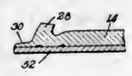
5. The process of making thiocyanomethyl derivatives of phenoxybenzenes and phenylthiobenzenes which comprises reacting by heating a member of the group consisting of halogenomethyl phenoxybenzenes and halogenomethylphenyl thiobenzenes with a metallic thiocyanate.

2,281,678

MANUFACTURE OF RIBBED INSOLES

Michele Cuozzo, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application October 31, 1940, Serial No. 363,735
8 Claims. (Cl. 12—146)



1. That improvement in methods of making insoles which comprises cutting an inner channel in the insole thereby forming an inner channel lip, bending the marginal portion of the insole outside of said channel into an upstanding position at the unchanneled side of the insole to form an integral sewing rib, turning said lip outwardly substantially 180° thereby inverting said lip and positioning it to form a feather, and securing reinforcing material to the surface formed by the channel cut in the body of the insole and to the adjacent cut surface of the feather.

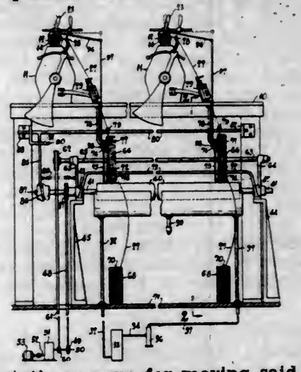
2,281,679

MEANS FOR COATING THREAD

George C. Davis, Jr., Gastonia, N. C., assignor to Threads, Incorporated, Gastonia, N. C., a corporation of North Carolina

Application July 25, 1941, Serial No. 404,009
5 Claims. (Cl. 91—40)

1. Apparatus for treating thread with molten paraffin, comprising means for rotating a package of thread to wind a strand thereon, a rotary brush, means for applying molten paraffin to said brush, means for passing said strand in contact with said brush to thereby cause said material to be transferred to the thread and means automatically operable upon the stopping of said



package rotating means for moving said thread out of contact with the brush.

2,281,680

CHURCH TRUCK

Robert R. De Ment, Cleveland Heights, Ohio

Application December 20, 1940, Serial No. 370,934
7 Claims. (Cl. 280—42)



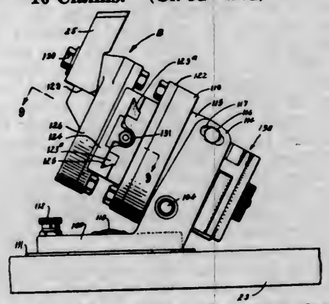
1. In a church truck, the combination of upright corner posts, collapsible means connecting said posts, said collapsible means including lever mechanism for adjusting said posts longitudinally and laterally, said lever mechanism being bodily adjustable longitudinally of the truck body, and screw means with threads of different pitch for effecting such bodily adjustment of said lever members and for operating said lever mechanism, respectively, thereby effecting both longitudinal and lateral adjustment of said posts.

2,281,681

WORK HOLDER FOR FORM TOOLS

John Edgar, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois

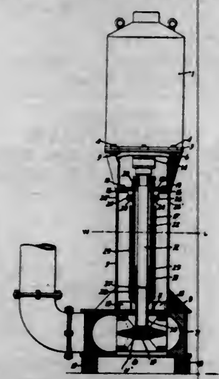
Original application September 28, 1934, Serial No. 745,914, now Patent No. 2,181,396, dated November 28, 1939. Divided and this application March 18, 1939, Serial No. 262,595
10 Claims. (Cl. 51—224)



1. A work holder of the character described

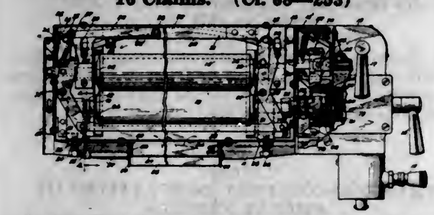
comprising, in combination, a support, an annular ring adjustable angularly on said support, a base pivotally mounted on said support guided by said ring, a pair of brackets inclined upwardly from said base, a body member mounted on a horizontal shaft extending through said brackets for limited swinging movement from a normal clearance angle inclination, a head angularly adjustable on said body member about its inclined axis, a cross slide on said head movable transversely of said axis, and a tool blank supporting member rotatably mounted on said slide.

2,281,682
PUMP AND BEARING CONSTRUCTION
Harry F. England, Prairie City, Oreg.
Application June 22, 1940, Serial No. 341,853
3 Claims. (Cl. 103—111)



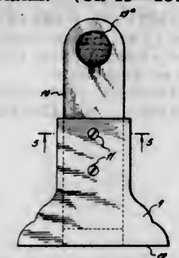
1. A pump and drive shaft assembly comprising, a substantially vertical shaft, a pump runner secured on the lower end of said shaft, an inner and an outer tubular member around said shaft coaxial therewith, said members being spaced from each other and from said shaft and the lower ends of said members terminating adjacent said runner with the lower end of said outer members below the lower end of said inner member, a bearing for said shaft carried by said inner member at the lower end thereof and extending radially inwardly thereof and directly supporting the lower end portion of said shaft for rotation, a closure for the lower end of said outer tubular member secured thereto and spaced below said bearing and rigidly secured to said shaft, supporting said outer tubular member concentric with said shaft and with said inner tubular member for rotation with said shaft, a head spaced above the upper end of said outer tubular member supporting said inner tubular member rigid therewith in position depending therefrom, a bearing carried by said head rotatably supporting the upper end of said shaft in a position coaxial with said inner member, the upper end of said outer tubular member being open for admission of oil into said upper end to be conducted by said outer tubular member to below the bearing carried by said inner tubular member and a port formed in said inner tubular member at a point above the upper end of said outer tubular member and below said head for admitting oil into said inner tubular member and to the upper side of the said bearing carried at its lower end, and means supporting said head stationary and supporting said inner and said outer members in their positions relative to each other and to said head and runner as herein described.

2,281,683
ROLL WRINGER MECHANISM
Nicholas L. Etten, Waterloo, Iowa, assignor to Chamberlain Corporation, Waterloo, Iowa
Application June 8, 1934, Serial No. 729,548
16 Claims. (Cl. 68—253)



1. A roll wringer mechanism having in combination, a lower frame, a relatively movable top frame, mechanism disposed in either end of the lower frame capable of moving the top frame, said mechanism comprising lever members pivotally mounted in either end of the lower frame, link members connecting the levers with the top frame in toggle relationship whereby rocking movement of said levers produces vertical movement of the top frame, manual means for rocking the lever at one end, and connections between said lever and that in the opposite end to rock the latter in unison with the former.

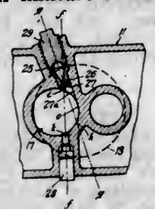
2,281,684
FURNITURE WALL GUARD
George F. Fijux, Laurelton, Long Island, N. Y.
Application January 16, 1940, Serial No. 314,105
1 Claim. (Cl. 45—137.4)



A furniture-wall guard of the type described adapted to support a furniture leg carrying a dome slide on its lower end which slide is of smaller diameter than the diameter of the leg, comprising a rigid member having a straight rear edge adapted to engage a wall or similar abutment, an adjustable extension for the guard consisting of a rigid member slidably engaging the rigid member at one end, said extension having a cup at its other end to receive only said dome slide, and means to fasten said extension in adjusted position with respect to said rigid member.

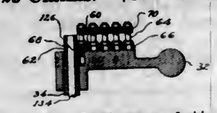
2,281,685
INJECTION ENGINE
Hans Fischer, Yonkers, N. Y., assignor to Lanova Corporation, Long Island City, N. Y., a corporation of Delaware
Application April 24, 1941, Serial No. 390,055
1 Claim. (Cl. 123—32)

In an injection engine, a cylinder and a piston operating therein, a combustion chamber opening into said cylinder, a supplementary chamber opening into said combustion chamber between a diameter and one side thereof through a restricted orifice and a funnel-like passage flaring from said orifice toward said combustion chamber, said passage having a wall merging with said side of said combustion chamber substantially tangentially thereof, and an injection nozzle having a port disposed to inject a spray of fuel across said combustion chamber and into said passage on a chord adjacent said one side of said combustion chamber, said nozzle being timed to effect said injection before top dead center piston position, the distance between the port of said nozzle and said orifice and passage being such as to assure entry of injected fuel into said supplementary chamber in proper amount to form with the air therein a quick burning fuel-air mixture effective for producing



within said supplementary chamber incident to combustion therein relatively high pressure effective for ejecting therefrom after top dead center piston position a high-pressure high-velocity blast of gases through said orifice and passage, said orifice and passage being disposed to discharge said blast into said combustion chamber on a chord intersecting said first-named chord and traversing said combustion chamber nearer said combustion chamber side than said first-named chord, whereby said blast impinges upon said combustion chamber side and is deflected thereby into a peripheral sweep toward the opposite side of the combustion chamber.

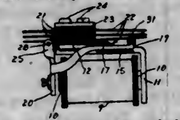
2,281,686
LACING MACHINE
Joseph Fossa, Salem, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application July 1, 1938, Serial No. 217,003
25 Claims. (Cl. 112—5)



1. A machine for lacing eyeletted shoe uppers having, in combination, a main operating shaft, a plurality of lacing mechanisms, operated by said shaft including needles upon which the eyelets of an upper are impaled, and clamping members for gripping the upper close to the eyelets impaled by the needles, spacing connections between the lacing mechanisms, and control connections arranged when thrown into operation to cause the lacing mechanisms to be disconnected from the spacing connections and then to cause the clamping members to grip the upper.

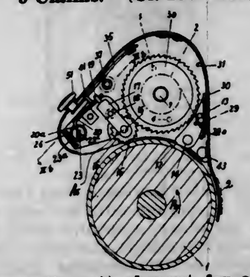
2,281,687
RELAY
Ralph R. Fowler, Oak Park, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application August 1, 1940, Serial No. 349,058
4 Claims. (Cl. 200—104)

1. In a relay including a magnet and a heel-piece secured thereto, a unitary structure comprising an armature, a pivot pin and a relay yoke permanently assembled with said pin securely and fixedly fastened to said armature and with said pin rotatably secured in said yoke, a spring having holes therein, holes in said relay yoke and threaded holes in said heel-piece, and screws extending through the holes in said spring and the holes in the relay yoke into the threaded



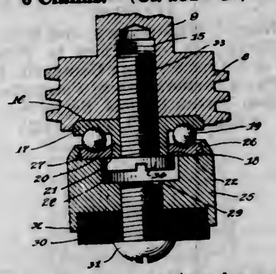
holes in said heel-piece to rigidly fasten the yoke of said unitary structure to said heel-piece, said screws also tensioning said spring against said pin to prevent movement of said armature except when said magnet is being energized and deenergized.

2,281,688
RIBBON ATTACHMENT FOR TYPEWRITERS FOR MAKING DUPLICATE COPIES
Josefine Rosa Geser, Zurich, Switzerland
Application August 8, 1939, Serial No. 289,078
In Switzerland May 16, 1939
5 Claims. (Cl. 197—153)



2. A typewriter attachment for attachment to a typewriter having a platen for making duplicate ribbon copies, comprising a ribbon, ribbon-carrying means adapted for mounting on the typewriter to bring the ribbon into operative relation with the typewriter platen, friction means driven by said platen for driving said ribbon-carrying means, and axially slidable means comprising a bar for changing the direction of travel of said ribbon.

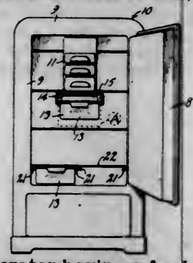
2,281,689
VALVE STRUCTURE
Terence G. Hare, Ypsilanti, Mich.
Application September 4, 1941, Serial No. 409,511
6 Claims. (Cl. 251—46)



1. In a valve having a seat and a control stem mounted on threads for movement toward and away from the seat, said stem having a threaded bore therein, a race member disposed adjacent the end of the stem, a second race member, balls between the race members, a collet having one end associated with one race member and the

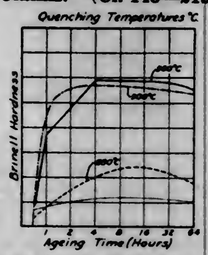
other end connected to the other race member for holding the race members and balls in assembly, a holding member having a connection with the second race member of a permanent type and having a threaded aperture adapted to receive the holding screw for a sealing washer, and a screw extending through the collet for threaded engagement in the bore of the stem to secure the race and ball assembly to the end of the stem, said screw having a head between the second race member and the holding member and which is accessible through the threaded aperture in the holding member for the turning of the same.

2,281,690
REFRIGERATOR
William T. Hedlund, New Rochelle, N. Y., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application June 5, 1940, Serial No. 338,833
4 Claims. (Cl. 62—89)



1. In a refrigerator having a food storage compartment and a cooling unit in said compartment, a first container, a second container, said containers comprising pans, the pan forming said second container being shallower than the pan forming said first container and adapted to fit within said first container and having a ledge adapted to so seat on said first container that said second container closes the top of and forms a cover for said first container, and supports to hold said pans at selectively different elevations beneath said cooling unit, one of said containers having a projecting part which overlaps the other of said containers to restrict lateral movement between said containers when said second container is placed on said first container to also form a cover therefor in an inverted position.

2,281,691
PROCESS FOR HEAT TREATING COPPER ALLOYS
Franz R. Hensel, Wilkinsburg, and Earl I. Larsen, Turtle Creek, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 8, 1934, Serial No. 714,614
4 Claims. (Cl. 148—21.2)

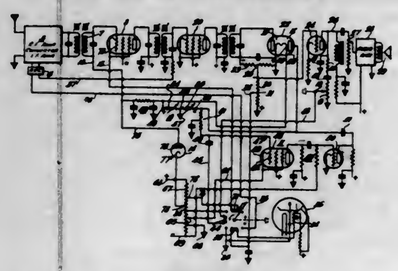


1. In a process for heat treating an alloy consisting of from .08% to 2.54% chromium and the balance copper, the steps of heating the alloy to a temperature between 980° C. and the melting point of the alloy, quenching the alloy, and ageing the quenched alloy at a temperature of 440° C. to 460° C. to increase hardness and conductivity.

2,281,692
THIOCYANATES OF PHENYL ETHER
William F. Hester, Drexel Hill, and W E Craig, Philadelphia, Pa., assignors to Röhm & Haas Company, Philadelphia, Pa.
No Drawing. Application March 26, 1940, Serial No. 326,045
3 Claims. (Cl. 260—454)

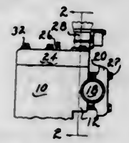
1. A phenoxybenzene having a thiocyanate group attached directly to an aromatic nucleus.

2,281,693
VOLUME RANGE CONTROL SYSTEM
Paul F. G. Holst and Loren B. Kirkwood, Oaklyn, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application March 30, 1940, Serial No. 326,910
11 Claims. (Cl. 250—20)



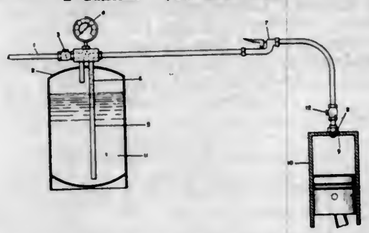
1. In a radio signal receiving system, the combination of a variable gain signal amplifier, an audio frequency detector coupled to said amplifier, volume range control means connected between the output of said detector and said amplifier for causing the output of said detector to vary proportional to the depth of modulation of received signals, and means for preventing feed back of gain variation in said amplifier.

2,281,694
MANIFOLD
John S. Huber, South Milwaukee, Wis., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland
Application June 5, 1940, Serial No. 338,845
21 Claims. (Cl. 123—52)



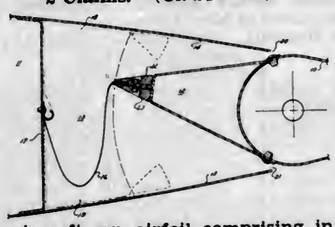
1. In a manifold having a plurality of ports opening from the side thereof, a carburetor passage formed in said manifold, a member positioned in said manifold to increasingly reduce the cross sectional area of said manifold towards the ends thereof, and means partially obstructing the port nearest the carburetor passage.

2,281,695
GUM AND CARBON REMOVAL
Thomas W. James and Ralph T. Marette, Cleveland, Ohio, assignors to The Lubri-Zol Corporation, Wickliffe, Ohio, a corporation of Ohio
Application March 21, 1939, Serial No. 263,262
1 Claim. (Cl. 123—198)



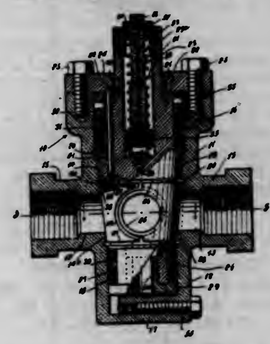
The method of de-gumming internal combustion engines which comprises introducing a mixture of a gas and a liquid gum solvent atomized therein through the spark-plug opening of a cylinder, such gas being under pressure sufficient to ensure penetration of the solvent throughout the gum deposits, and mechanically reciprocating the piston in the cylinder being treated to compress the gas therein, while preventing the return flow of said mixture through said spark plug opening.

2,281,696
BALANCED CONTROL SURFACE
Clarence L. Johnson, Burbank, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Application March 12, 1940, Serial No. 323,502
2 Claims. (Cl. 244—90)



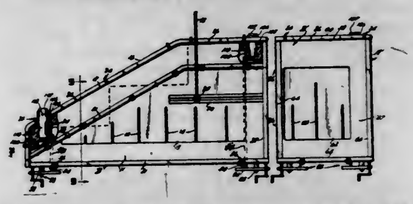
1. In aircraft, an airfoil comprising in combination a fixed surface having a rearwardly opening housing for receiving a portion of a control surface, a control surface pivotally supported relative to the fixed surface and having a nose section extending forward into the housing, said nose section being vertically spaced from and between the rear edges of the housing, the control surface being spaced from and substantially faired into the contours of the fixed surface to form a continuation thereof, means for statically balancing said control surface comprising weights attached to the nose section and entirely confined within the housing throughout the range of movement, and means for aerodynamically balancing said control surface comprising a flexible impervious membrane connecting and sealing the nose of the control surface to an interior surface of the housing whereby to divide the housing into two chambers each communicating with one surface of the airfoil through the vertical spaces between the rear edges of the housing and the nose section of the control surface, said flexible membrane having sufficient slack at all normal positions to progressively increase the area thereof in contact with the wall of the housing as the control surface is tilted in either direction from neutral towards its extreme positions with the nose section approaching the corresponding wall of the rearward extension of the fixed surface, whereby the effective area of the aerodynamic balance is decreased.

2,281,697
LUBRICATED PLUG VALVE
Ralph L. Kerr, Houston, Tex.
Application September 25, 1940, Serial No. 358,343
14 Claims. (Cl. 251—93)



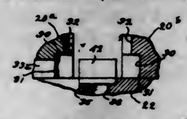
1. In a lubricated valve of the character described, a valve body having inlet and outlet ports, a rotary valve plug in the body controlling flow through the inlet and outlet ports and engaged with an annular valve seat in the body, the contacting faces of the valve plug and valve seat being cooperatively constructed with lubricant receiving grooves and a plunger reciprocably mounted in the valve plug having one end engaging a cam face on the valve body for supplying lubricant to the contacting faces of the valve seat and valve plug, and manually operated lubricant supply means carried by the valve plug.

2,281,698
APPARATUS FOR PRECASTING CONCRETE STAIR STRUCTURES
Frank Kogl, St. Paul, Minn., assignor of two and one-half per cent to Walter H. Carlson, two and one-half per cent to Ora E. Carlson, four per cent to Minnie C. Schneider, four per cent to Genevieve Clark, and ten per cent to Ruby S. McBride, all of St. Paul, Minn.
Application July 31, 1939, Serial No. 287,513
5 Claims. (Cl. 25—118)



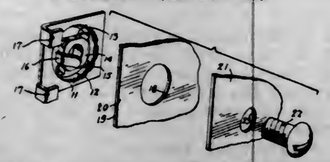
1. A mold for precasting concrete stair structures, comprising inner and outer mold forms, means supporting the forms in spaced relation for forming casting cavities therebetween, and the said forms including inner and outer side forming members and inner and outer detachable center step forming portions bodily removable from the respective side forming members for replacement with others of different width to thereby cast steps of a preselected width.

2,281,699
CLINCH NUT
Charles T. Langmaid and Plummer E. Double, Detroit, Mich., assignors to Fabristeel Products, Inc., Detroit, Mich., a corporation of Michigan
Application July 18, 1940, Serial No. 346,222
1 Claim. (Cl. 85—32)



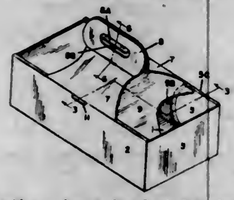
In a clinch-nut having a substantially rectangular, threaded body portion and a flat flange, the improvements comprising a plurality of convexly rounded corners on the body, the convex corners of the body being formed by upwardly displacing some of the nut body, which results in the formation of a slightly irregular concave surface on the top of the nut body, the flat flange remaining in undisturbed condition.

2,281,700
FASTENING DEVICE
Charles T. Langmaid, Detroit, Mich.
Application May 13, 1941, Serial No. 393,276
4 Claims. (Cl. 85—32)



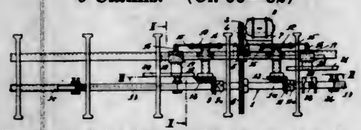
1. A fastener comprising a length of metal having an aperture therein and a nut secured in said aperture, by displacing some of the nut body against the walls of the aperture, there being a tongue formed adjacent said aperture by some of the material removed in forming said aperture, said tongue being bent away from its original plane, and being adapted to be extended through an aperture in another member to which it is to be secured.

2,281,701
BASKET
Daniel A. Larkin, Sandusky, Ohio, assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio, a corporation of Ohio
Application July 24, 1939, Serial No. 286,169
1 Claim. (Cl. 229—34)



In combination, in a basket having body and handles of fibrous sheet material and slots horizontally disposed at mid-length slightly below the edges of the basket body, a lid adapted to be inset below top level of sides of said body, said lid having integral tabs on its sides fitting into said slots, rabbets on the upper edges of the inner ends of said basket on a level with said slots forming shelves adapted to support the ends of said lid and handles hinged along a limited mid-portion only of the upper edges of said body, said handles being adapted selectively to overlie said lid or to stand up.

2,281,702
STRAIGHT BAR KNITTING MACHINE
Karl Richard Lieberknecht, Oberlungwitz, Germany, assignor to Kalio, Inc., New York, N. Y., a corporation of New York
Application April 13, 1939, Serial No. 267,549
In Germany April 16, 1938
9 Claims. (Cl. 66—82)

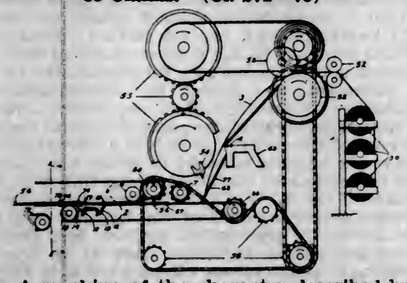


5. In a straight bar multiple section flat knitting machine having a main cam shaft extending substantially throughout the machine length, driving means for said cam shaft which comprises a motor, and a driving connection with the cam shaft comprising a driving train from said motor connecting with said cam shaft, said cam shaft being comprised of a plurality of sections of different weight and corresponding torque load resist value, progressively lighter sections being employed with increased distance from the connection with the driving means in accordance with the decrease in torque load on the cam shaft.

2,281,703
PHOTOGRAPHIC SILVER HALIDE EMULSIONS
Wesley G. Lowe, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application August 1, 1940, Serial No. 349,294
6 Claims. (Cl. 95—7)

1. A method of preparing a photographic silver halide emulsion which comprises preparing a silver halide in an aqueous solution of a silver halide dispersing agent and subsequently adding thereto a polyvinyl acetaldehyde acetal resin having a polyvinyl acetal content of at least 50% and an uncombined hydroxyl content corresponding to at least 15% polyvinyl alcohol.

2,281,704
SHEET FEEDING MACHINE
Louis Landaff Matthews, Westerly, R. I., assignor to Maxson Automatic Machinery Company, Westerly, R. I., a corporation of Rhode Island
Application April 4, 1940, Serial No. 327,860
35 Claims. (Cl. 271—75)

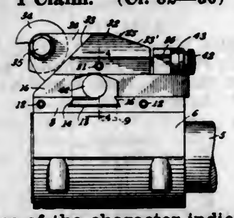


1. A machine of the character described having, in combination, means for feeding sheet material, means for waving the material comprising two substantially frictionless wheels, a band mounted over the wheels, means whereby the band may be actuated with the material in the direction of travel of the material, and a further wheel disposed in front of the band for aiding the waving action.

2,281,705
EXTREME PRESSURE LUBRICANT
David R. Merrill, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application January 3, 1940, Serial No. 312,227
14 Claims. (Cl. 252—58)

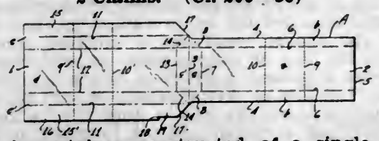
1. An extreme pressure lubricant comprising essentially mineral lubricating oil and a small percentage of chlorinated Edeleanu extract.

2,281,706
TOOL HOLDER
Donald H. Montgomery, West Hartford, and George A. Cardell, New Britain, Conn., assignors, by mesne assignments, to The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut
Original application March 28, 1936, Serial No. 71,428. Divided and this application September 23, 1939, Serial No. 296,230
1 Claim. (Cl. 82—36)



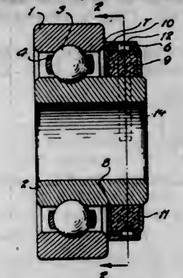
In a device of the character indicated, a block of metal having a generally rectangular base, means for securing said base to a support, said block being of generally frusto-pyramidal form, a flange member integral with and projecting forwardly from the front flat side of said generally frusto-pyramidal block, the top of said flange being a substantial continuation of the top of said block, and means for securing a tool to said forwardly projecting flange.

2,281,707
CONTAINER
Edwin L. Mott, St. Louis, Mo.
Application March 20, 1941, Serial No. 384,251
2 Claims. (Cl. 206—56)



1. A container constructed of a single substantially oblong-rectangular blank folded upon itself substantially midway its opposite ends to include main and supplemental equal length sections, said sections being transversely scored adjacent to, and parallel with, said fold-line in the provision of co-operable bottom wall forming portions, the supplemental section being provided longitudinally adjacent its opposite side margins with parallel fold-lines and divided thereby into a front wall forming panel and side wall forming portions, and the main section having a greater width than the supplemental section and being provided with fold-lines alignigly registering with the fold-lines of the supplemental section, said fold-lines of the main section dividing the same into side wall forming portions and a rear wall forming panel, said side wall forming portions of the main section being longitudinally divided by fold-lines into lengthwise extending marginal portions each having a transverse width greater than the transverse width corresponding to the side-wall forming portions of said front wall and being partially foldable over and secured to said side wall forming portions of the supplemental section.

2,281,708
ANTIFRICTION BEARING
Raymond Walter Niles, Saline, Albert Herman Bethke, Ann Arbor, and Walter Graves, Ypsilanti, Mich., assignors to Hoover Ball & Bearing Company, Ann Arbor, Mich., a corporation of Michigan
Application October 21, 1939, Serial No. 300,520
3 Claims. (Cl. 308—187.2)

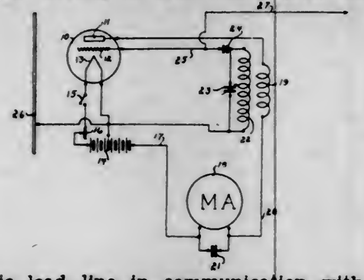


3. An antifriction bearing comprising, an outer race having one end face thereof of substantially flat formation, an inner race having an axial dimension exceeding that of the outer race and arranged to project axially from the said end face of the outer race, antifriction elements between the races, a ring disposed concentrically with the outer race and having one edge abutted against and weld united with the said flat face of the outer race, said ring having an axial extent so as to overlie the projecting portion of the inner race, means providing a circumferential inwardly opening channel which constitutes a retainer, said channel having its bight portion fitting within said ring and having the legs of the channel extending radially inwardly toward the inner race and having a running clearance therewith, a body of sealing material confined within the channel and frictionally engaging the extending portion of the inner race, and means for securing the retainer to the ring.

2,281,709
BEAT OSCILLATOR
Elmer Olson, Pomeroy, Iowa
Application February 17, 1941, Serial No. 379,219
1 Claim. (Cl. 250—36)

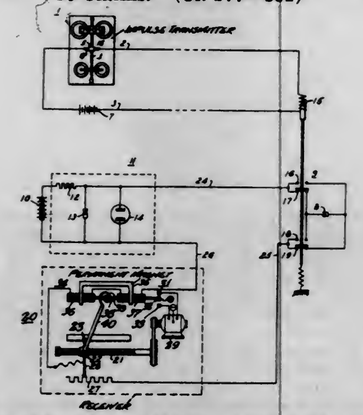
In a tuning oscillator, a triode tube, a source of electrical energy for energizing the filament of said tube, a tuning coil having its secondary circuit imposed between the grid of said tube and one of its filament connections, an antenna plate secured to said last mentioned filament connection, a calibrated tuning condenser shunted across said secondary of said tuning grid, a milliammeter having one of its terminals in com-

munication with a source of electrical energy and its other side in communication with the primary winding of said tuning grid, and an



electric lead line in communication with the other side of said primary coil and the plate of said tube.

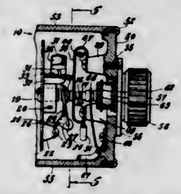
2,281,710
TELEMETERING SYSTEM
Carl Oman, Cedar Grove, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 17, 1940, Serial No. 353,022
10 Claims. (Cl. 177—351)



1. A telemetering system comprising, means for transmitting current impulses at a rate proportional to a measured quantity, a receiver disposed to be operated by said impulses and having an operating circuit energized in accordance with the rate at which the impulses are received, and means controlled in accordance with the operation of the receiver for varying the resistance of the operating circuit in accordance with the rate at which the impulses are received, said means functioning to decrease the resistance as the impulse rate increases.

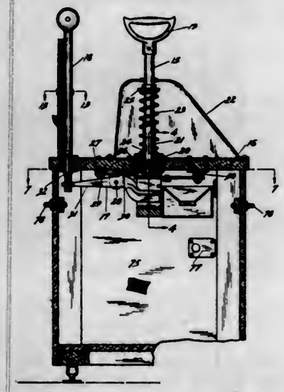
2,281,711
SPEED GOVERNOR FOR ELECTRIC MOTORS
William F. Peck and Charles M. Sperasz, Kenmore, N. Y., assignors to Spencer Lens Company, Buffalo, N. Y., a corporation of New York
Application June 8, 1939, Serial No. 278,092
4 Claims. (Cl. 200—80)

1. In a speed control device for electric motors the combination of a rotatable support, a lever pivotally mounted on the face of said rotatable support, a centrifugal member having a resilient arm mounted at one end on the face of said rotatable plate and adjacent the periphery thereof and having a weight adjacent its free end, said arm being normally under tension to retain the circuit closed, said centrifugal member being adapted to counter-act said resilient arm and actuate said pivotal lever to open the circuit until the centrifugal force is less than the force of said resilient arm, whereby the resilient arm will again actuate said pivotal lever to close the cir-



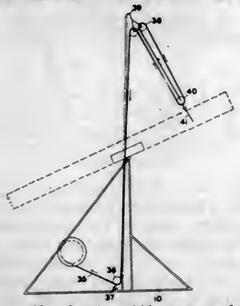
cuit, and a switch actuating portion on said pivotal lever having a contacting surface, a spider translation member having looped end portions connected to the frame and having a contact portion adapted to be moved longitudinally by engagement with said contacting surface of said pivotal lever, a speed regulating member on the frame, and a member having a contact positioned between said translation member and said speed regulating member.

2,281,712
FORCE MEASURING DEVICE
Armen Potigian, Davenport, Iowa
Application May 21, 1938, Serial No. 209,190
5 Claims. (Cl. 265—21)



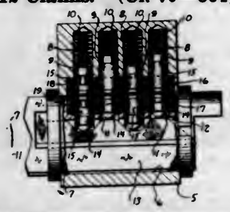
1. In a device of the character described, a plunger mounted for reciprocation between normal and moved positions, a member slidable across the line of reciprocation of said plunger between a normal position in which it extends across the line of reciprocation of said plunger and prevents motion from a normal to a moved position and a moved position in which it does not so extend, and an arm movable to a normal position when said member is placed in moved position to hold said member in its moved position and thereby allow reciprocation of said plunger to moved position, said plunger having an extension projecting laterally therefrom and cooperating with said arm to move the arm out of normal position as said plunger moves to normal position, said arm having a part to cooperate with the laterally projecting extension on the head.

2,281,713
METHOD OF SETTING POLES
William H. Pyeatt, Breckenridge, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware
Original application May 23, 1938, Serial No. 209,591. Divided and this application January 30, 1940, Serial No. 316,430
3 Claims. (Cl. 214—152)



1. In the method of setting a pole, the steps comprising elevating the butt end of the pole by means of a suitable block and tackle system, resting the pole on a support intermediate its ends, rearranging the block and tackle system, and actuating the rearranged block and tackle system to apply a downward pull on the butt end of the pole to tilt the same to a substantially vertical position.

2,281,714
LOCK
Herbert H. Rauh, Columbus, Ohio
Application August 27, 1940, Serial No. 354,388
12 Claims. (Cl. 70—364)

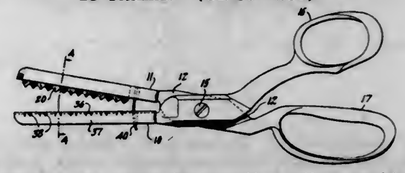


1. In a lock having a bored mounting member and a lock cylinder movable therein: a tumbler carried by the cylinder and engageable with the mounting member to hold the same against movement, said tumbler having a resilient portion located to engage the mounting member in the normal position of the tumbler so that a degree of movement is permitted the cylinder while the tumbler is in its operative position.

2,281,715
PROCESS FOR THE PRODUCTION OF SODIUM FORMATE
Donald Atwater Rogers, Petersburg, Va., assignor to The Solvay Process Company, New York, N. Y., a corporation of New York
No Drawing. Application July 3, 1940, Serial No. 343,767
8 Claims. (Cl. 260—542)

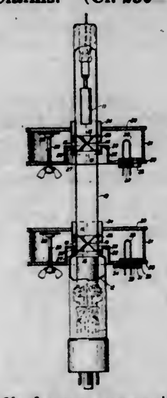
1. The process for the production of sodium formate which comprises reacting carbon monoxide gas with a solution of caustic soda which also contains sodium formate in amount such that the molecular ratio of caustic soda to sodium formate is not substantially above 1 to 1 and simultaneously vaporizing water from the solution into said gas and thereby removing water from the solution in amount sufficient to crystallize sodium formate therefrom and form a slurry of sodium formate and insufficient to crystallize caustic soda from the solution.

2,281,716
PINKING CUTTER
Harry B. Rudd, Flushing, N. Y.
Application October 22, 1940, Serial No. 362,187
13 Claims. (Cl. 30—230)



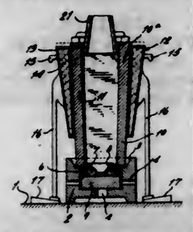
1. In a pair of pinking cutters, the combination of a pair of angularly movable members pivoted on each other, a thin zigzag cutting knife releasably carried by one of the members, means for accurately positioning the knife with respect to the member by which it is carried, said other member being provided with narrow slots arranged zigzag and in registering relation to the knife.

2,281,717
ELECTRON DISCHARGE APPARATUS
Arthur L. Samuel, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 21, 1941, Serial No. 375,114
5 Claims. (Cl. 250—27.5)



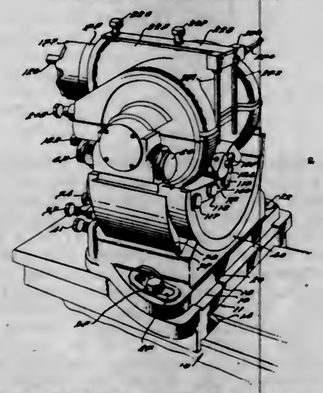
1. Electron discharge apparatus comprising an enclosing vessel having a tubular insulating portion, means opposite one end of said portion for producing an electron beam, a target electrode opposite the other end of said portion, a pair of electrodes between said means and said electrode defining a gap to be traversed by said beam and having portions sealed in and extending through said insulating portion, a second pair of electrodes between said means and said target electrode defining a gap to be traversed by said beam and having portions sealed in and extending through said insulating portion, and a chamber resonator outside of said vessel including a wall electrically connecting one of said first pair of electrodes and one of said second pair of electrodes and a second wall electrically connecting the other electrodes of said pairs.

2,281,718
METHOD OF CASTING METAL INGOTS AND APPARATUS THEREFOR
John T. Scully, Lawrence, N. Y., and George H. Wyckoff, Mountain Lakes, N. J.
Application August 5, 1938, Serial No. 223,157
25 Claims. (Cl. 22—139)



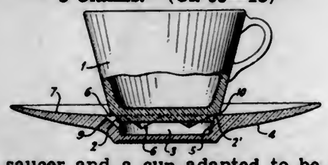
1. A method of casting ingots including pouring molten metal into a metallic body provided with an ingot-forming chamber of differential horizontal cross-sectional areas and chamber side walls of longitudinally differential thickness, and having the relatively larger cross-sectional portion of the chamber disposed in longitudinally opposite relation to the relatively thinner portion of the side walls, whereby the portion of the poured mass of relatively larger cross-section is in horizontally opposed relation to the relatively thicker portion of the side walls of the mold, absorbing heat at a faster rate radially from the larger horizontal cross-sectional areas and at a slower rate radially from the smaller horizontal cross-sectional areas of the poured mass, and later reducing the rate of heat absorption from the levels of the mass last to rise by retarding the radiation of absorbed heat from a circumferentially extending lateral area of the upper portion of the metallic walls of the mold radially opposite the upper portion of the poured mass.

2,281,719
GRINDING WHEEL DRESSER
Harold N. Seyferth, East Detroit, and Ira J. Snader, Detroit, Mich., assignors to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application July 26, 1938, Serial No. 221,374
22 Claims. (Cl. 125—11)



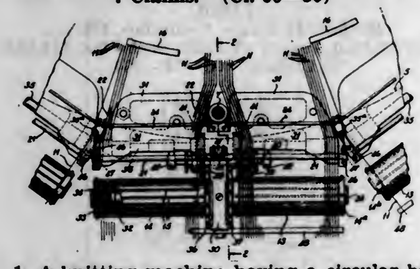
7. In combination, a bracket having spaced arms, a non-rotatable lead screw having its ends engaging the arms respectively, a threaded sleeve on the screw, means for turning the sleeve, a tool support carried by the sleeve, and cooperating means on the support and on the bracket for preventing turning of the support when the sleeve is rotated.

2,281,720
CUP AND SAUCER COMBINATION
William Shefts, New York, N. Y.
Application December 14, 1939, Serial No. 309,120
3 Claims. (Cl. 65—13)



1. A saucer and a cup adapted to be used in combination therewith whereby excess liquid spilled into the saucer is prevented from adhering to the base of the cup, said saucer comprising a trough, a plurality of V-shaped channels formed in the saucer and communicating with the trough, the bottom of the cup being provided with an undercut rim portion which is adapted to have a close fit with the upper portion of the trough.

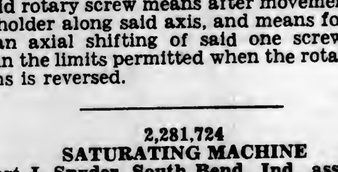
2,281,721
KNITTING MACHINE
Julius Sirmay, Philadelphia, Pa., assignor to Jacquard Knitting Machine Co., Inc., Philadelphia, Pa., a corporation of New York
Application May 23, 1939, Serial No. 275,303
7 Claims. (Cl. 66—50)



1. A knitting machine having a circular bank of stitch-forming elements and a plurality of control units, to control the operations of said stitch-forming elements, distributed around the axis of said bank, each of said control units including at least two supports for patterns and a framework structure having a portion extending in a direction substantially radial to said bank to carry the pattern supports of the respective unit and extending between said two pattern supports, said two pattern supports being mounted on opposite sides of said portion of the framework structure and extending from the respectively adjacent sides of said portion and being carried wholly by said portion.

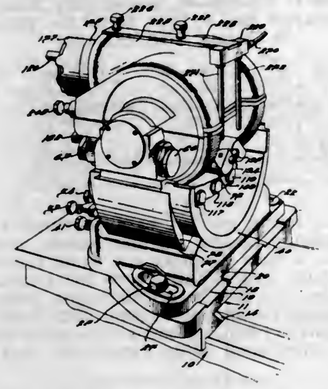
2,281,722
SANDING OR POLISHING PAD
George E. Smith, Cincinnati, Ohio, assignor to The United States Electrical Tool Company, Cincinnati, Ohio, a corporation of Ohio
Application November 20, 1939, Serial No. 305,287
2 Claims. (Cl. 51—197)

2. A support pad for a surface treatment disc, comprising a circular rubber element having a central bore, a metal hub molded in the central bore of the element, providing an apertured flange with the rubber molded through the apertures, and a pair of attaching nuts adapted to



engage upon opposite sides of the element, said element including counter-sunk portions for receiving said nuts.

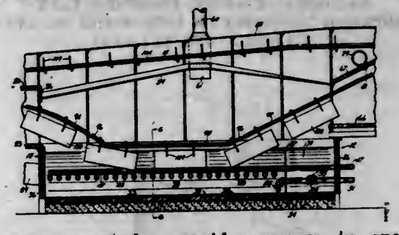
2,281,723
GRINDING WHEEL DRESSER
Ira J. Snader, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Original application July 26, 1938, Serial No. 221,374. Divided and this application December 16, 1940, Serial No. 370,382
21 Claims. (Cl. 125—11)



10. In combination, a frame, non-rotatable and rotatable lead screw means mounted on the frame and engaging each other, means permitting limited shifting of one of the screw means along its axis, a tool holder movable along said axis with the other screw means after the one screw means is shifted, means for reversing the rotation of said rotary screw means after movement of the tool holder along said axis, and means for effecting an axial shifting of said one screw means within the limits permitted when the rotary screw means is reversed.

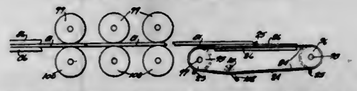
2,281,724
SATURATING MACHINE
Gilbert J. Snyder, South Bend., Ind., assignor to Mastic Asphalt Corporation, South Bend., Ind., a corporation of Indiana
Application March 8, 1939, Serial No. 260,554
26 Claims. (Cl. 91—46)

1. A saturating device comprising a preheating chamber, a drying chamber, a dipping tank interposed between said chambers and positioned below the chambers, said chambers and tank constituting an elongated assembly, stationary guide means extending through said chambers and tank, a flexible conveyor having a portion movable in a substantially horizontal undulating path through said assembly along said guide and a portion exterior of said assembly, and article



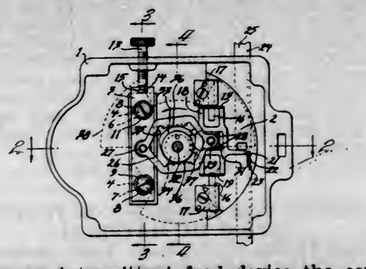
carriers mounted on said conveyor in spaced relation.

2,281,725
PANEL FEED MECHANISM
Gilbert J. Snyder, South Bend, Ind., assignor to Mastic Asphalt Corporation, South Bend, Ind., a corporation of Indiana
Application October 2, 1939, Serial No. 297,422
5 Claims. (Cl. 198—110)



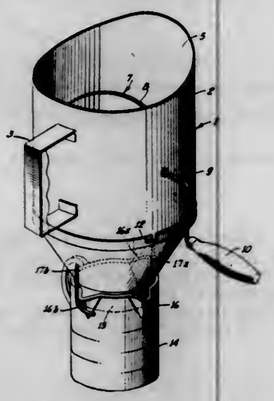
5. Panel feed mechanism comprising a horizontal panel support, a rotatable drive member mounted eccentrically relative to a fixed axis of rotation adjacent the discharge end of said support, a driven member journaled about a stationary axis adjacent the opposite end of said support, an endless member trained around said drive and driven members and carrying spaced panel engaging elements, and means for tensioning the run of said endless member traveling from said drive member to said driven member.

2,281,726
INTERMITTENT FEED DEVICE
Bruno Stechbart, Chicago, Ill., assignor to The Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application September 18, 1939, Serial No. 295,479
6 Claims. (Cl. 88—18.4)



1. In an intermittent feed device the combination with a feed shuttle mounted for reciprocating movement, of an actuating member mounted for pivotal movement corresponding with reciprocating movement of said shuttle, rotatory means for oscillating said actuating member, an operative connection between said shuttle and actuating member adapted to accommodate differences of movement therebetween transversely of reciprocating movement of said shuttle, and means for adjusting the pivotal axis of said actuating member in the plane of movement thereof and transversely of reciprocating movement of said shuttle.

2,281,727
SIFTER
Eleanor C. Stewart, Pasadena, Calif.
Application November 20, 1939, Serial No. 305,253
1 Claim. (Cl. 221—95)

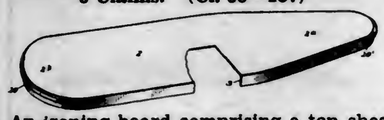


In a measuring device, the combination of: a measuring vessel comprising an open topped cylindrical member having at least a pair of diametrically opposed pouring lips formed on the upper edge thereof, said lips extending outwardly from said cylindrical member; a funnel-like member having a larger upper end for receiving material to be conveyed to said vessel and having a smaller lower end adapted to be received within said vessel; and means for detachably securing said vessel to said funnel-like member comprising a pair of arms secured to said funnel-like member and extending downwardly therefrom in positions to lie outside of said cylindrical member, the lower ends of said arms being extended horizontally in opposite directions substantially at right angles to a line joining said arms and in positions to extend below and engage the under sides of the opposite one of said pouring lips when said vessel is placed in a position encircling said smaller lower end of said member and turned to a position so engaging said lips with said arms, whereby said vessel may be detached from said funnel-like member by rotating said vessel sufficiently to move said pouring lips beyond the ends of the horizontal portions of said arms, and whereby said pouring lips may be used as such when said vessel is so detached.

2,281,728
PROCESS FOR THE MANUFACTURE OF ASPHALTIC MATERIAL
Edmund Thelen, Santa Maria, Calif., assignor to O. C. Field Gasoline Corporation, a corporation of Nevada
No Drawing. Application March 9, 1939, Serial No. 260,779
1 Claim. (Cl. 196—22)

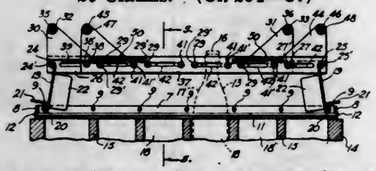
The process of treating a charge stock of asphaltic crude and residue, which consists in first heating said charge stock to substantially 270° F., adding substantially from 0.4% to 1.2% of 22° Baumé hydrochloric acid in such a manner as to effect substantially complete absorption of free hydrochloric acid, circulating the same, and thereafter airblowing the mix at substantially 425° F.

2,281,729
METAL IRONING BOARD
David W. Thomas, Youngstown, Ohio, assignor to Youngstown Metal Products Company, Youngstown, Ohio, a corporation of Ohio
Application April 14, 1939, Serial No. 267,757
3 Claims. (Cl. 38—137)



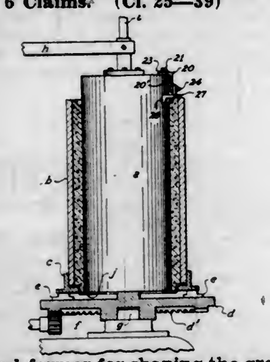
2. An ironing board comprising a top sheet of relatively light gauge sheet metal having a down-turned peripheral flange, and a reinforcing sheet substantially co-extensive with said top sheet and having longitudinal channels formed therein, portions of which are in contact with and welded to the top sheet, said flange at one end of said top member having a rib projecting outwardly therefrom adapted to space the flange from a support when the board is stood on end thereon.

2,281,730
BOTTLE HANDLING APPARATUS
Jesse C. Thompson, Kansas City, Kans.
Application May 9, 1940, Serial No. 334,209
20 Claims. (Cl. 294—87)



1. In a bottle carrier, case engaging means, bottle spacing means, guiding means engaging bottles in a case to direct the same relative to said spacing means, and means for gripping all the bottles in a case to lift the same therefrom, said spacing means cooperating with said gripping means to hold said bottles in spaced relation to each other upon being lifted from said case.

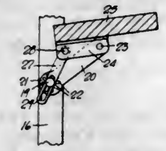
2,281,731
END FORMER FOR CONCRETE PIPE
Oscar Tuerck, Portland, Oreg., assignor to Tuerck-Mackenzie Company, Portland, Oreg., a corporation of Oregon
Application September 3, 1940, Serial No. 355,214
6 Claims. (Cl. 25—39)



1. In an end former for shaping the groove end of a concrete pipe in a pipe machine having a cylindrical core, an angular bracket, said bracket

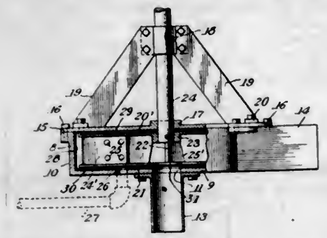
having a pair of legs, one horizontal and one vertical, said horizontal leg attached to the top of said core, a shoe adjustably attached to the vertical leg of said bracket, said shoe having a horizontal segmental flange, the bottom face of said flange curved slightly upward at the forward end, a vertical, wedge-like, curved flange extending below said horizontal flange, said vertical flange increasing in depth from the forward end for a substantial distance towards the rear end of said shoe, whereby the depth of the groove made in said pipe end by the rear end of said vertical flange may be varied by adjusting said shoe on the vertical leg of said bracket.

2,281,732
CHAIR
Walter C. Uline, Nappanee, Ind.
Application January 27, 1941, Serial No. 376,131
6 Claims. (Cl. 155—171)



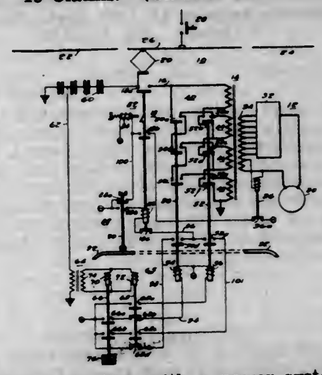
4. In a chair, a seat, means for supporting said seat, a foot rest, a pair of arms pivoted to opposite ends of said foot rest, brackets carried by said seat supporting means, said arms being pivoted to said brackets, links pivoted to said foot rest spaced from said arms and having a normally slidable connection with said brackets, and means for locking said arms and links in fixed relation to said bracket.

2,281,733
GRAVEL PUMP
Ivor O. Wallberg, San Luis Obispo, Calif.
Application April 20, 1939, Serial No. 269,037
6 Claims. (Cl. 103—103)



2. A gravel pump comprising a housing including an outer wall having an outlet opening and including a pair of side walls one of which has a central inlet opening, a shaft extending axially into said housing, a runner disposed within said housing and fast on said shaft, said runner including a pair of axially spaced planar shroud discs disposed adjacent said side walls and extending substantially to said outer wall, one of said shroud discs having an opening therein adjacent said inlet opening, a radial impeller extending from one to the other of said shroud discs, a yieldable rubber vane extending radially from said impeller to said outer wall, and means for fastening the radially inner end of said vane to said impeller leaving the remaining portion of said vane free.

2,281,734
TRANSFER SYSTEM FOR ELECTRICALLY OPERATED VEHICLES
Charles C. Whittaker, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 31, 1940, Serial No. 338,080
15 Claims. (Cl. 171—97)



15. The combination with a power system on an electrically-operated vehicle which is energized from a trolley conductor having adjacent sections energized at different voltages and which includes a motor control circuit, transformer means connected thereto having a plurality of primary windings, a current collector for engaging the trolley conductor, and switch means operable to connect the current collector to the motor control circuit of a control system, comprising, means on the vehicle actuable to render the switch means inoperative, means positioned adjacent the end of a section of the trolley conductor to effect the actuation of said means, means energized from the current collector to produce a control voltage having a predetermined relation to the voltage of the trolley conductor, a transfer switch operable to change the connections of the primary windings of the transformer means, and control means responsive to the control voltage to effect selective operation of the transfer means to change the connections of the transformer windings in accordance with the voltage of the adjacent sections so as to apply a predetermined voltage to the motor control circuit.

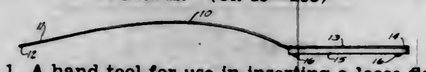
2,281,735
DUSTING COMPOSITION
Ferd W. Wieder, Berkeley, Calif., assignor to Stauffer Chemical Company, a corporation of California
No Drawing. Application October 20, 1939, Serial No. 300,302
8 Claims. (Cl. 167—22)

1. A method of manufacture of an insecticidal composition comprising impregnating a dry finely divided free flowing carrier with a sweet syrup to impregnate the carrier without destroying the dry free flowing character thereof and then depositing on the impregnated mass a dry finely divided tartar emetic.

3. An insecticidal composition comprising as a major constituent a dry finely divided free flowing carrier material impregnated substantially homogeneously with sufficient of a sugar to render said material attractive to insects without impairing the free flowing character of the carrier, and, as a minor constituent in said com-

position, an antimonyl derivative of an aliphatic acid containing an alpha hydroxy group, said antimonyl being, deposited on said sugar impregnated carrier.

2,281,736
HAND TOOL FOR UPHOLSTERY WORK
George M. Wittenburg, Cleveland, Ohio
Application January 11, 1941, Serial No. 374,122
2 Claims. (Cl. 45—138)



1. A hand tool for use in inserting a loose flap portion of a slip cover between contiguous parts of upholstered furniture, comprising a substantially flat handle portion, a flat blade portion of substantially uniform cross-section secured in offset relation to said handle portion and formed on an arc of decreasing curvature merging into a straight end having side flanges forming an enlarged head portion.

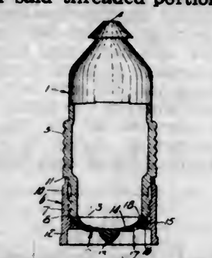
2,281,737
DISCHARGE NOZZLE
Frank C. Woelfer, Jr., Cincinnati, Ohio, assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio, a corporation of Ohio
Application April 30, 1940, Serial No. 332,576
3 Claims. (Cl. 221—47.3)



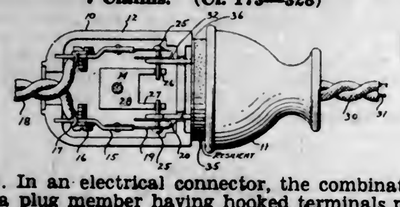
1. A discharge nozzle for use at the end of a hose line, comprising; a tubular element having a screw threaded extension and a plain extension beyond the screw threaded extension, the forward end of the plain portion providing a valve seat, a tubular element screwed on said screw threaded extension, a separate valve seat element fixed in said last named element and providing a seat facing the first named seat, a lock nut on a screw threaded portion of the first element for locking the elements in fixed position with the valve seats spaced appropriately, a ball valve held against one seat, leverage means pivoted on the second element, and a shuttle pin engaging the ball valve and actuated by the lever for moving the ball valve from its normal seat to the other seat.

2,281,738
DISPENSER
Frank E. Wolcott, West Hartford, Conn.
Application December 13, 1938, Serial No. 245,459
3 Claims. (Cl. 221—76)

2. In a dispenser, a member comprising a combined support and cap having an internally threaded portion, an axially apertured flange extending transversely toward the axis of the member from the inner wall of said member and at one end of said threaded portion, and a support on the opposite side of said flange from said threaded portion and extending from said flange longitudinally of said member in the opposite direction from said threaded portion, said flange having an annular groove therein in the face thereof toward said threaded portion.

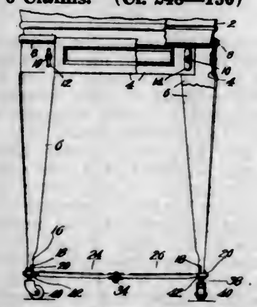


2,281,739
ELECTRICAL CONNECTOR
Archie H. Wright, San Francisco, Calif., assignor of forty per cent to Frank E. Chalman, San Francisco, Calif.
Application May 31, 1940, Serial No. 338,079
7 Claims. (Cl. 173—328)



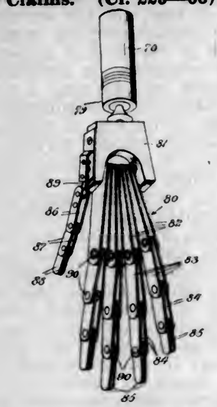
1. In an electrical connector, the combination of a plug member having hooked terminals projecting therefrom, a base member having apertures in one face thereof through which the said hooked terminals are adapted to be inserted, said base member having a pair of spring contacts therein, each of said spring contacts carrying a pin adapted to be engaged by the said hooked terminals and an anchorage in said base member for the free ends of said pins.

2,281,740
RECEPTACLE SUPPORT
Herbert L. Blickhan, Independence, Mo.
Application August 5, 1940, Serial No. 351,484
6 Claims. (Cl. 248—150)



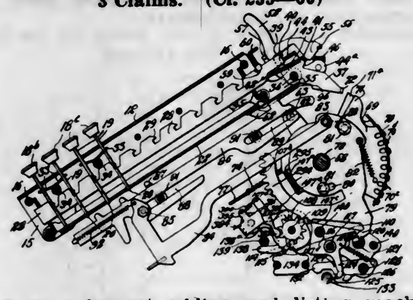
3. In a supporting structure including a plurality of legs having tubular lower ends, a pair of vertically spaced bosses externally extruded from the lower ends of said legs, a bracing structure comprising metal strips having openings in their ends receiving the ends of the legs, the ends of the braces and legs being conjointly resilient to allow the brace to be pushed up over the lower boss, caster sleeve fitted within the tubular legs and expanding said legs after the braces have been positioned, and casters removably carried by said sleeves.

2,281,741
CONSTRUCTION FOR THE DIGITS OF DISPLAY FIGURES AND THE LIKE
Constance Boulard, Union City, N. J.
Application January 30, 1940, Serial No. 316,300
2 Claims. (Cl. 223—68)



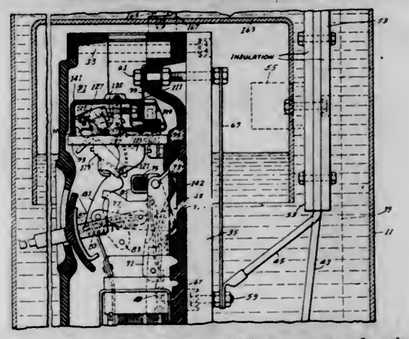
1. In an armature for a display figure, digital portions comprising paired links pivotally united in overlapping end to end relation, said links being pivotally united by means comprising a headed arrangement passing through the end portions of adjoining paired links and preventing their separation and providing a pivot, and resilient means disposed between the links so as to press the links of one pair against the links of the other pair.

2,281,742
ADDING MACHINE
Charles H. Bradt, Groton, N. Y., assignor to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y., a corporation of New York
Application November 2, 1939, Serial No. 302,505
3 Claims. (Cl. 235—60)



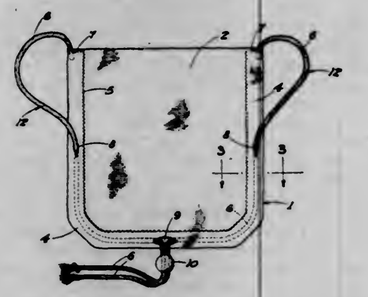
2. In a key-set adding and listing machine of the class described having a shiftable adding rack, a column of amount keys settable selectively to limit shift of said rack differentially, and a shiftable type carrier bearing amount types appropriate to said keys and responsive to shift of said rack to set one of said types, appropriate to a set one of said keys, in preparation for printing, in combination, a shiftable higher-order rack, a shorter column of special designation keys at the left of said first column and settable selectively to limit differentially shift of said higher-order rack, a lower-order accumulator pinion and a higher-order accumulator pinion engageable with said racks for adding and total taking operations, a shiftable higher-order type carrier bearing a lesser number of amount types than said first carrier, for extended total printing only, and also bearing special designation types appropriate to said special designation keys, said higher-order carrier being responsive to shift of said higher-order rack to set one of said special designation types appropriate to any set one of said special designation keys in preparation for printing, the latter rack having a gap in its series of teeth reducing the number of teeth, for the purpose set forth, and so located on the rack and of such extent as to avoid rotation of the higher-order pinion by the higher-order rack in the shift of the latter between the limit determined by the setting of any one of said special designation keys and the normal position of the rack, and means coactive with the higher-order rack to control the latter automatically to carry tens from the lower-order pinion to the higher-order pinion, said higher-order rack tooth series comprising a tooth at one side of said gap to mesh with said higher-order pinion for carry-over and teeth at the opposite side of the gap to mesh with the higher-order pinion for total-taking.

2,281,743
CIRCUIT BREAKER
Louis M. Brown, Westfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 26, 1940, Serial No. 347,637
11 Claims. (Cl. 200—116)



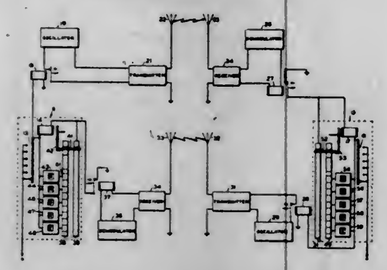
1. In combination, a circuit interrupter having relatively movable contacts and thermally responsive means heated in response to the current of the circuit and operable when heated a predetermined amount to cause opening of the contacts, an enclosing housing in which the circuit interrupter is mounted, said housing containing a body of insulating liquid in which the circuit interrupter with its thermally responsive means is totally immersed, and means for preventing the liquid from affecting the thermal-operating characteristics of said thermally responsive means.

2,281,744
FACE MASK
Newton L. Brunner, East Cleveland, Ohio
Application July 11, 1940, Serial No. 344,945
9 Claims. (Cl. 128—146)



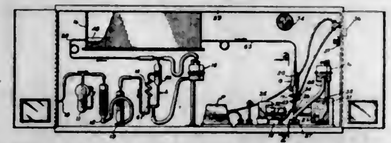
1. A mask of the class described comprising a face covering, and elongated flexible means having ends attached to the top portion of the covering at points spaced apart laterally thereof, said flexible means being detached from the covering for a substantial distance from said points of attachment to provide loops for engagement over the ears of the wearer, the edge portion of the covering within the lower region thereof being slidably connected to said flexible means between each loop and the central portion of the bottom of the covering where said means is accessible for adjustment purposes.

2,281,745
PRINTING TELEGRAPH ERROR DETECTING SYSTEM
William D. Buckingham, Southampton, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application May 19, 1939, Serial No. 274,535
8 Claims. (Cl. 178—69)



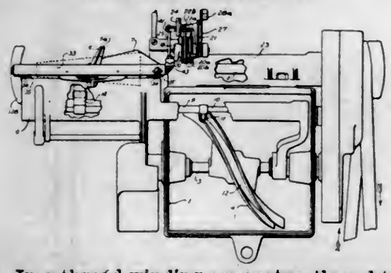
1. In a printing telegraph system utilizing signals each comprising a plurality of components having one of a plurality of electrical conditions according to a predetermined code, transmitting and receiving instruments, means associated with said transmitting instrument for segregating all of one of said conditions transmitted, means for integrating said segregated transmitted conditions according to a prearranged plan, means associated with said receiving instrument for segregating all of said one condition received, means for integrating said segregated received conditions according to said plan, and means for comparing the results of said integrations.

2,281,746
APPARATUS FOR DETECTING COMBUSTIBLE GASES
John N. Burdick, Buffalo, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio
Application March 18, 1938, Serial No. 196,719
4 Claims. (Cl. 177—311)



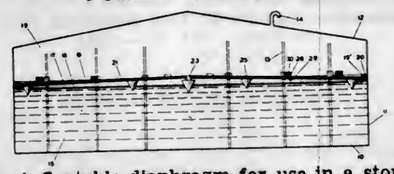
1. An apparatus for automatically detecting, in the air supply for processes involving high compression of such air, the presence of oxidizable carbon dioxide-forming compounds in a concentration in excess of a predetermined safe limit, which comprises, in combination, means for continuously withdrawing a sample stream of such air; means for continuously treating said sample stream to oxidize to carbon dioxide, all oxidizable carbon dioxide-forming compounds present therein; a reversible absorbent for carbon dioxide which is capable of yielding up carbon dioxide to, or of absorbing carbon dioxide from, said sample stream in response to changes in concentration of carbon dioxide in said treated sample stream, and thus in accordance with corresponding changes in concentration of said compounds in said air supply, said absorbent also being capable of transmitting energy in varying degree depending on its carbon dioxide content and undergoing relatively abruptly a substantial change in energy transmitting properties in the region of carbon dioxide content thereof corresponding to said predetermined limit of concentration of oxidizable carbon dioxide-forming compounds in said air supply; means for continuously bringing said treated sample stream into intimate contact with said absorbent; means for transmitting energy through said absorbent; means, responsive to variations in energy transmitted through said absorbent, for continuously receiving at least a part of such transmitted energy; and signalling means, actuatable by said energy-responsive means, for indicating whenever said absorbent abruptly undergoes substantial change in energy transmitting properties in said region.

2,281,747
WINDING APPARATUS
Lester Campbell, Westfield, Mass., assignor to Foster Machine Company, Westfield, Mass., a corporation of Massachusetts
Application November 15, 1939, Serial No. 304,499
19 Claims. (Cl. 242—43)



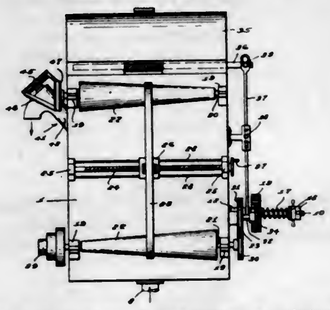
1. In a thread winding apparatus, thread traversing means including a pair of relatively movable closely adjacent substantially parallel members having crossing slots through which the thread passes, said slots being so closely adjacent that at the point of crossing they define and act as a single thread guiding opening.

2,281,748
EQUIPMENT FOR STORING VOLATILE LIQUIDS
Samuel C. Carney, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application October 31, 1938, Serial No. 238,000
3 Claims. (Cl. 220—26)



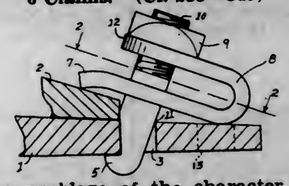
1. A floatable diaphragm for use in a storage tank to minimize the evaporation losses of volatile liquids contained therein, comprising a rigid ring, means attached to the ring for sealing the space between the ring and the inner surface of the side wall of the tank, an impervious flexible cover lightly stretched across the ring, apertures in the cover, a section of tubing connected to each aperture and containing a porous non-absorbent substance for the passage of gas and vapors therethrough, a wire network mounted on the ring, and a plurality of buoys fastened to the network, said buoys maintaining the cover above the surface of the liquid and imparting greater buoyancy near the center than toward the edge of the cover.

2,281,749
PAPER STOCK MACHINE
Maxine Chevrier, Harrisville, N. Y.
Application May 25, 1940, Serial No. 337,312
2 Claims. (Cl. 137—78)



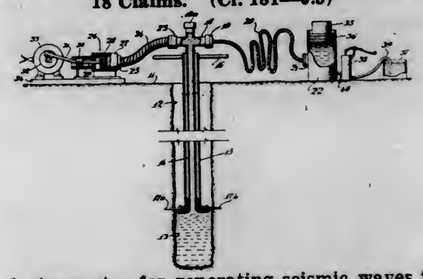
1. In a paper stock machine, a mixing chamber, a shaft passing transversely therethrough with one end extending from the chamber, agitator blades connected with the shaft and located in the chamber, a gear loosely located on the projecting end of the shaft, slip clutch means for connecting the gear with the shaft, a drive shaft, a gear thereon meshing with the first-mentioned gear, water supply means in communication with the chamber, a valve for controlling communication between the supply and the chamber, said clutch parts slipping on each other when the consistency of the stock in the mixing chamber reaches a certain degree to stop rotary movement of the blades and means between the valve and the clutch means for opening the valve when the clutch parts are slipping on each other and for closing the valve means when the clutch parts are rotating the shaft from the gear.

2,281,750
RAIL FASTENING
Ralph P. Clarkson, Milford, Conn.
Original application February 21, 1936, Serial No. 64,999, now Patent No. 2,203,624, dated June 4, 1940. Divided and this application May 4, 1940, Serial No. 333,417
6 Claims. (Cl. 238—349)



1. An assemblage of the character described comprising, in combination, a rail, a tieplate provided with the usual spike opening therethrough adjacent the edge of the rail, rail fastening means for resiliently clamping said rail in direct contact with said tieplate and holding said rail against lateral or longitudinal movement, said rail fastening means including a resilient member overlying the base of said rail and pressing downwardly thereon, a bolt adapted to be inserted downwardly through said spike opening provided with a hook end engaging the underside of said tieplate when operatively positioned, a nut threaded on said bolt of such character and arrangement as to tense said resilient member, said bolt having a shank portion engaging both the edge of the base flange of the rail and the outer wall of said tieplate opening and so constructed and arranged as to present a solid bar against lateral movement of said rail, and tieplate fastening means separate from and independent of said rail fastening means.

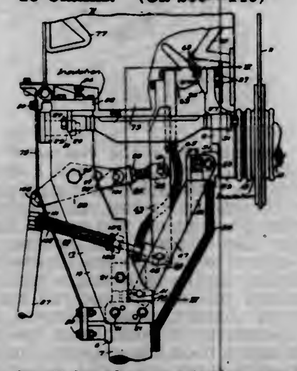
2,281,751
SEISMIC WAVE GENERATION APPARATUS
Raymond T. Cloud, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application November 10, 1939, Serial No. 303,825
18 Claims. (Cl. 181—0.5)



1. Apparatus for generating seismic waves for use in geophysical prospecting comprising a localized body of fluid substantially completely confined beneath the surface of the earth, a conduit enclosing a fluid column communicating with said localized body of fluid and extending therefrom upwardly to a point above the surface of the earth, said localized body of fluid being in intimate pressure responsive relationship with the earth surrounding said body, said fluid column being relatively free from pressure responsive relationship with the earth surrounding said column, and means for applying pressure stresses

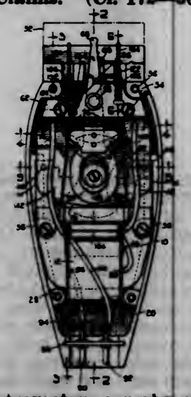
to the upper part of said fluid column for transmission through said fluid column to said localized body of fluid and thence to the earth surrounding said localized body of fluid.

2,281,752
CIRCUIT BREAKER
James M. Cumming, Turtle Creek, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 27, 1939, Serial No. 286,835
18 Claims. (Cl. 200—146)



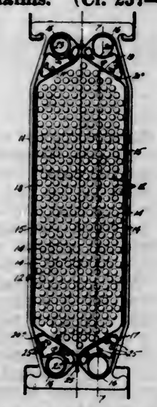
1. In a circuit breaker, contact means including a first pivoted contact arm, a second contact arm pivoted at one end to an intermediate point of said first contact arm, a fixed stop engageable by said first contact arm to determine the full open circuit position of said arm, operating means for moving said contact arms to open and to closed circuit position, said operating means being operable in one continuous movement during a circuit opening operation to first cause movement of said first contact arm to full open circuit position against said fixed stop and to then cause movement of said second contact arm to open circuit position.

2,281,753
MOTOR
Godfrey Dalkowitz, Brooklyn, N. Y., assignor to American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia
Application October 1, 1937, Serial No. 166,726
8 Claims. (Cl. 172—36)



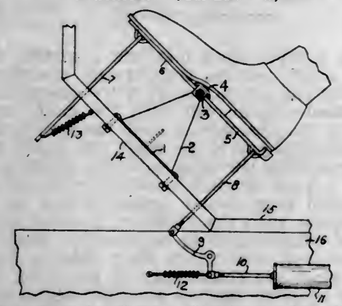
1. In an electromotor, a make and break device comprising two sets of paired contacts connected in series so that when the contacts of either set are separated the motor circuit will be broken, means for normally holding the contacts of each set in adjacency but permitting their separation and a single means for alternately separating the contacts of either set.

2,281,754
HEAT EXCHANGER
Charles B. Dalzell, Little Falls, N. Y., assignor to Cherry-Burrell Corporation, Chicago, Ill., a corporation
Application January 27, 1937, Serial No. 122,597
2 Claims. (Cl. 257—245)



1. A heat exchange element for plate heat exchangers of the character described, consisting of a heat conducting plate formed with a multiplicity of relatively closely spaced but separated concavo-convex portions forming knoblike bosses on one face of the plate and cavities in the opposite face of the plate, said bosses being staggered both longitudinally and transversely of the plate and being arranged non-symmetrically relatively to a central line of the plate so that when the plate is reversed end for end in the plane of the plate beside a similar plate the bosses of one plate will be out of register with the cavities and bosses of the adjacent plate.

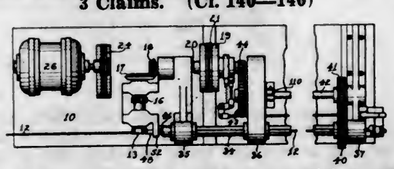
2,281,755
COMBINED ACCELERATOR AND BRAKE
Edgar C. Dunning, Detroit, Mich.
Application November 5, 1940, Serial No. 364,456
1 Claim. (Cl. 192—3)



A foot operator for accelerator and brake rods, comprising in combination with the inclined floor of a vehicle, a base plate attached to the floor,

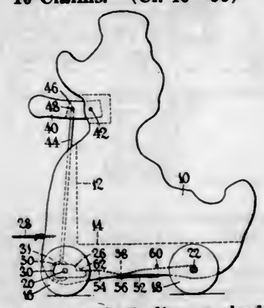
spaced side members erected at the sides of the base plate, an arch provided with end pivot extensions, toe and heel plates located between said side members at the tops thereof, a pin pivotally connecting said toe and heel plates and the said extensions of the arch, the side edges of the said arch being constructed and arranged to make contact with the toe and heel plates whereby said plates are held movably in normally inoperative positions, an accelerator rod connected pivotally with the toe plate, a brake rod pivotally connected with the heel plate, and the said rods having springs attached thereto whereby the toe and heel plates are yieldingly held in contact with the said extensions of the said arch.

2,281,756
WIRE CUTTING MACHINE
Clayton F. Fisher, Spencer, and Edward E. Franks, Jr., Worcester, Mass., assignors to Sleeper & Hartley, Inc., Worcester, Mass., a corporation of Massachusetts
Application October 22, 1940, Serial No. 362,250
3 Claims. (Cl. 140—140)



1. A wire cutting machine comprising means for feeding the wire forward, a rotatable cutter shaft having an open sided passage into which the wire may be fed, means associated with said cutter shaft for severing the wire when the shaft rotates, said shaft being so arranged that the wire may drop out of said passage when the shaft rotates, power operated mechanism for rotating the shaft, a clutch controlling said mechanism, a loaded trigger mechanism which serves automatically to connect the clutch and cause the wire to be severed, means whereby the trigger mechanism is released by the forward motion of the wire to a given position, and means actuated by the power mechanism during the rotation of the shaft which sets the trigger mechanism and disconnects the clutch.

2,281,757
ACTION TOY
Herman G. Fisher, East Aurora, N. Y., assignor to Fisher-Price Toys, Inc., East Aurora, N. Y.
Application June 19, 1940, Serial No. 341,335
10 Claims. (Cl. 46—99)



1. An action toy including a body member bifurcated at a lower edge portion thereof intermediately of its outer side wall portions to form spaced depending outer wall portions, rotating shaft means extending through the bifurcated portion of said body member, cam means mounted upon said shaft means within the interior of said bifurcated body portion, a sounding board mounted across said depending wall portions of said body member and spanning said bifurcated body portion, sound producing means operatively associated with said sounding board and said cam means for actuation by the latter to produce sound effects in cooperation with said sounding board, said sound producing means being disposed within the interior of said bifurcated body portion and substantially concealed from outer view.

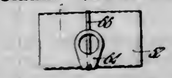
2,281,758
DRY REAGENT FOR TESTING
Alexander Galat, Bronx, N. Y., assignor to The Denver Chemical Manufacturing Company, New York, N. Y., a corporation of Colorado
No Drawing. Application January 31, 1940, Serial No. 316,515. In Great Britain January 31, 1939
3 Claims. (Cl. 252—408)

1. A dry reagent for direct flameless testing of urine for sugar by reaction with the sugar comprising a mixture of particles of an anhydrous bismuth salt, caustic alkali in sufficient amount on entering solution on contact with the test sample to furnish the heat required for the test, and a relatively large amount of a water-free magnesium containing silicate having capillary structure and neutral in color, said dry reagent when moistened by the test solution initiating an exothermic reaction whereby all the heat necessary for the test is supplied.

2,281,759
SEWAGE TREATMENT
Royal W. Gelder, Greeley, Colo., assignor to Paul Bechtner, Chicago, Ill.
No Drawing. Application October 29, 1935, Serial No. 47,222. Renewed April 20, 1939
10 Claims. (Cl. 210—2)

8. The process of treating sludge derived from sewage or other impure waters which comprises agitating highly colloidal clay with water to effect an aqueous suspension of said clay, agitating the suspension for a period of time to effect hydration of the colloidal particles, mixing an inorganic electrolyte with the hydrated colloidal suspension to produce flocculation thereof, introducing the flocculated mixture into the sludge and dispersing the floc therethroughout, and ultimately dewatering the thus treated sludge.

2,281,760
DEODORIZING DEVICE
Nicholas A. Glaskowsky, Westfield, Mass., assignor to Stanley Home Products, Inc., Westfield, Mass., a corporation of Massachusetts
Application October 16, 1940, Serial No. 361,425
1 Claim. (Cl. 299—24)



A deodorizing device of the class described comprising in combination, a body of deodorizing material, and a hanger device consisting of a strip of bendable metal having an intermediate part extending entirely through the body and out opposite sides thereof and opposite end portions extending upwardly adjacent the outside

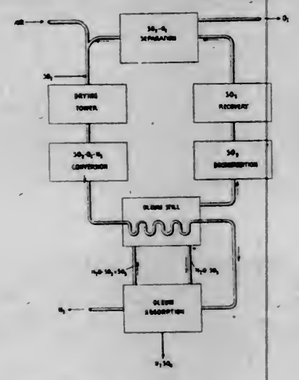
of said opposite sides of the body, one of said opposite end portions being in the form of a tongue and the other being provided with a slot, said tongue being engaged in said slot adjacent the outside of the upper side of the body.

2,281,761
PINKING MACHINE
Morris Glassberg, Kingston, N. Y., assignor of one-half to Joseph E. Honig, Kingston, N. Y.
Application May 11, 1939, Serial No. 272,978
13 Claims. (Cl. 112—122)



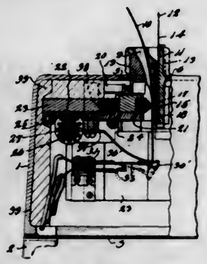
1. A pinking attachment for sewing machines, including a gear adapted to engage a driven shaft of said sewing machine, an eccentric cam mounted on said gear, said cam having an inner and outer contact face, a rocker arm pivoted below the bed of said machine, means on said rocker arm for engaging the inner and outer face of said cam, said means comprising two rollers, one engaging the inner contact face of said cam and one engaging the outer contact face of said cam, and means for disengaging the second-mentioned roller from the outer contact face of said cam.

2,281,762
PROCESS OF PRODUCING SULPHUR TRIOXIDE AND OXYGEN
Worthington T. Grace, Upper Darby, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application November 15, 1939, Serial No. 304,482
2 Claims. (Cl. 23—167)



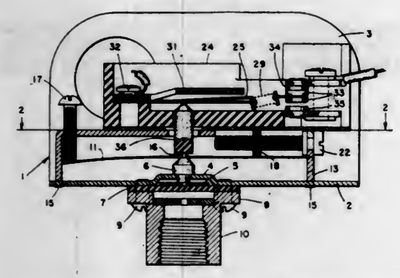
1. In the manufacture of oxygen the method of recovering oxygen from air which comprises mixing sulphur dioxide and air in proportions suitable for catalytic conversion of the sulphur dioxide to sulphur trioxide, subjecting the resulting mixture to catalytic conversion, absorbing sulphur trioxide from the thus formed conversion gases to an oleum concentration of at least 5%, passing oleum in heat exchange with said conversion gases to regenerate sulphur trioxide free of inert constituents of air, decomposing the sulphur trioxide thus formed to sulphur dioxide and oxygen, separating the sulphur dioxide and oxygen, and recycling sulphur dioxide to the conversion.

2,281,763
CARD PRINTING MACHINE
Chester Grant, Syracuse, N. Y., assignor to Gaylord Bros., Inc., Syracuse, N. Y., a corporation of New York
Application April 27, 1940, Serial No. 332,059
7 Claims. (Cl. 101—287)



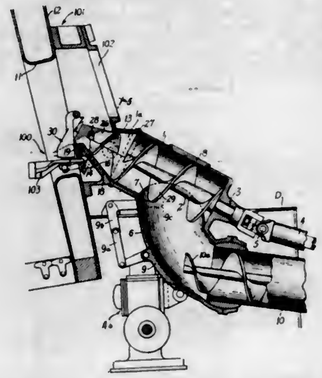
1. In apparatus of the class described, cooperative printing elements between which a card or the like is adapted to be inserted, one of said printing elements being movable towards and away from the cooperating printing element in producing a printing impression upon an inserted card, means controlled by the card for actuating said movable printing element, and card flexing means actuated by the movable printing element during the printing operation for flexing a portion of said card to a position ineffective to maintain the printing action of the movable printing element through the card-controlled means.

2,281,764
PRESSURE-RESPONSIVE SWITCH
Edwin W. F. Hanke, Whitefish Bay, Wis., assignor to Allen-Bradley Company, Milwaukee, Wis., a corporation of Wisconsin
Application July 30, 1941, Serial No. 404,629
5 Claims. (Cl. 200—83)



1. In a pressure-responsive electrical switch, the combination comprising a calibrated counterloading means in the form of a leaf spring, a base, mounting means associated with said base for preventing endwise and sidewise displacement of said spring and for retaining spaced portions of said spring against transverse movement, a pressure-responsive actuator mounted on said base and positioned to act transversely upon said spring between said transverse retaining means to deflect said spring transversely therebetween, and an over-center switch in cooperative engagement with the transversely deflectable portion of said spring adapted to be actuated by transverse deflection thereof.

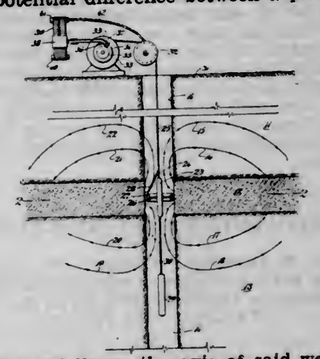
2,281,765
STOKING MECHANISM
William Thompson Hanna, Cincinnati, Ohio
Application January 27, 1938, Serial No. 187,150
8 Claims. (Cl. 110—101)



8. Stoker mechanism adapted for delivering coal into the firing opening of a locomotive firebox and comprising a forwardly and upwardly extending conduit communicating with the firing opening, said conduit having a cylindric conveying section spaced from the backhead and a fuel-conditioning section disposed intermediate said conveying section and said firing opening, said fuel-conditioning section being provided with top and bottom walls converging on a common axis and side walls relatively diverging, a screw conveyor within said conduit, said conveyor comprising a helical vane having a portion which is of constant diameter and disposed within said conveyor section to feed fuel into said conditioning section, and another portion which is tapered and disposed within and extending forward from the rear of said fuel-conditioning section, said latter portion being formed so that the taper thereof coincides substantially with the said convergence of said top and bottom walls to cause the coal to spread out laterally in said conditioning section, and means effectively providing side walls for said conditioning chamber extending from the rear thereof and adjustable with respect to the vertical for controlling the spreading and conditioning movement of the fuel in the conditioning chamber and for controlling the flow from the fuel-conditioning section.

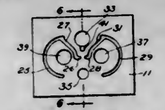
2,281,766
LOGGING OF PERMEABLE FORMATIONS TRAVERSED BY WELLS
Paul F. Hawley, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application December 29, 1939, Serial No. 311,637
6 Claims. (Cl. 175—182)

1. The method of logging permeable earth formations traversed by a fluid-containing well which comprises measuring a function of the natural potential difference between a point lo-



cated substantially on the axis of said well and at least one point adjacent the wall of said well.

2,281,767
PUMP
Winfield Walter Heckert, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application July 12, 1940, Serial No. 345,119
1 Claim. (Cl. 103—126)



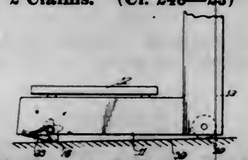
In a liquid propelling gear pump of the type in which a pair of meshing gears, housed in a center plate and between side plates, propels the liquid from an inlet opening to an outlet opening in cooperation with the peripheral surface of the center plate surrounding said gears, an arcuate groove in at least one of said side plates, said groove positioned to overlie a plurality of gear-teeth engaged in propelling liquid from the inlet opening to the outlet opening, a second groove in said side plate, said second groove positioned between said arcuate groove and a point overlying the meshing gear-teeth, and groove means in said side plate projecting only from said inlet opening towards, but not in direct connection with, said second groove whereby to induce leakage to said inlet opening upon reaching excessive pressure.

2,281,768
PHOTOPOLYMERIZATION OF VINYL HALIDES
Jacob Heerema and James S. Owens, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application August 17, 1939. Serial No. 290,654
5 Claims. (Cl. 204—163)

1. The method of polymerizing vinyl chloride which comprises enclosing vinyl chloride maintained in the vapor state at approximately atmospheric pressure in a vessel made of a transparent material selected from the class consisting of glass and quartz and having therein a solid non-metallic surface formed of a material selected from the class consisting of glass and quartz, the ratio of the vapor space in said vessel to the area of the non-metallic surface being at least 2.0, maintaining the outer walls of said vessel at a temperature above 60° C. and the said

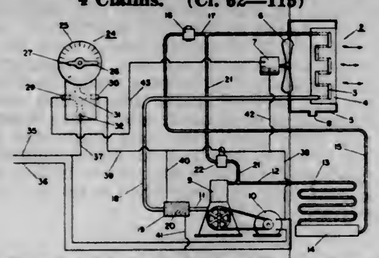
non-metallic surface at a temperature below about 30° C. and below the temperature of the vinyl chloride vapor but above the condensation temperature of the vinyl chloride, and exposing the vessel and contents to ultraviolet light including wavelengths below 3000 Angstrom units for a time sufficient to cause formation of polymeric vinyl chloride, the said process being carried out in the substantial absence of liquid vinyl chloride.

2,281,769
LEVELING DEVICE FOR SCALES AND OTHER OBJECTS
Gustav F. Hochriem, Chicago, Ill., assignor to Public Scale Company, a corporation of Illinois
Application August 7, 1940, Serial No. 351,675
2 Claims. (Cl. 248—23)



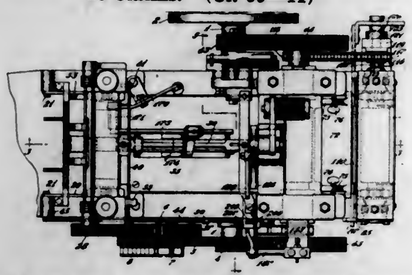
1. In a platform scale having a base frame, a shaft journaled in said frame, means for locking said shaft against rotation in one direction, a pair of members secured to said shaft and having peripheral portions at varying distances from the axis of said shaft for engagement with the floor, and means for causing rotation of said shaft in the other direction.

2,281,770
DEFROSTING SYSTEM
Anthony F. Hoesel, Chicago, Ill., assignor to Peerless of America, Incorporated, Chicago, Ill., a corporation of Illinois
Application January 17, 1941, Serial No. 374,885
4 Claims. (Cl. 62—115)



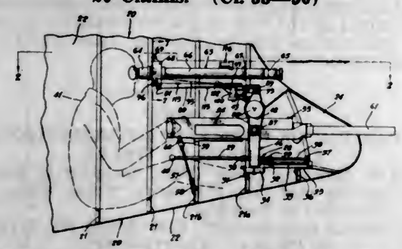
3. In a mechanical refrigerating system having a cooling unit normally discharging refrigerant vapor into a suction line conduit connected to the inlet of a compressor normally discharging compressed vapor into a conduit connecting the compressor with a condenser from which a refrigerant liquid conduit leads to a refrigerant pressure reducing means normally discharging into a refrigerant inlet conduit of the cooling unit, over the exterior surfaces of which an air circulation is maintained by a motor driven fan and upon which exterior surfaces a frost progressively accumulates, the combination of a by-pass conduit connected to said compressor discharge, and ahead of said condenser, and also connected to the refrigerant inlet between the said refrigerant pressure reducing means and the cooling unit, a normally closed solenoid valve in said by-pass conduit, electrical heating means disposed in heat transfer relationship with the refrigerant passing through the suction line conduit and normally de-energized, an electrical time switch normally maintaining a current supply to the fan motor, manually operated means to set said time switch for a given time lapse during which the current supply to said fan motor is interrupted, and during which time lapse the time switch energizes the solenoid valve to open position allowing the compressor discharge fluid to enter the inlet of said cooling unit, said time switch, during said time lapse, also energizing said electrical heating means.

2,281,771
GRADING MACHINE
James W. Johnston, Manchester, N. H., assignor to North American Holding Corporation, Syracuse, N. Y., a corporation of New York
Application May 24, 1940, Serial No. 336,991
15 Claims. (Cl. 69—11)



1. A grading machine which comprises detecting mechanism, grading mechanism settable responsive to the detecting mechanism, and means governing the admission of blanks to the detecting mechanism and the locking of the grading mechanism, characterized in that said grading mechanism including a slidable wedge bar and a plate carried thereby and movable therewith, said plate having a rack on one face thereof formed by teeth and spaces between the teeth, all said teeth and spaces being of the same width, and said governing means including a pair of pivotally mounted latches which normally engage said plate and hold said wedge bar at rest and a bar by which said latches are held out of such engagement during the setting of the grading mechanism responsive to the detecting mechanism.

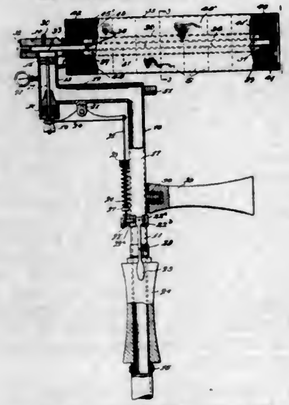
2,281,772
GUN INSTALLATION
Wolfgang B. Klemperer, Los Angeles, Calif., assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif., a corporation of Delaware
Application October 23, 1939, Serial No. 300,789
20 Claims. (Cl. 33—50)



4. In a gunnery device of the character described, the combination of: a gun sight having optical means to produce in a focal plane an image of the field at which said gun sight is directed; a gun supported movably relative to said gun sight and so as to be aimed at different points in said field; and means connected to said gun so as to be controlled by the movement thereof relative to said gun sight, and operating to indicate in said focal plane and said image, the point in said field at which said gun is aimed.

19. In reticule means for use with a gun sight, the combination of: a reticule housing; movable reticule means in said housing; a first reticule frame movable along a first line of movement; a second reticule frame movable in a second line of movement which crosses said first line of movement at a substantial angle, said frames having sliding engagement with said reticule means; screw means connected to said frames to move the same; spools connected to said screw means to rotate the same; and cable means running on said spool means to impart rotation thereto.

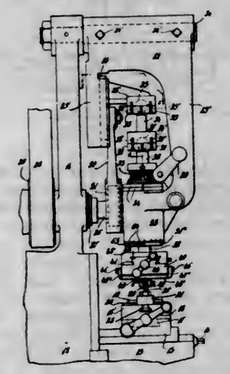
2,281,773
FLUID APPLICATOR
August J. Kollmann, New York, N. Y.
Application April 28, 1941, Serial No. 390,801
10 Claims. (Cl. 91—49)



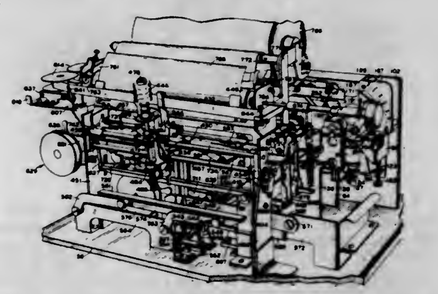
1. A coating tool of the character described comprising a roller of resilient metallic textile material, means to support the roller revolubly including a manipulating handle by which the roller may be applied to surfaces to be coated, and means to supply liquid coating material to the interior of the roller for feeding therethrough.

2,281,774
SLOTTING MACHINE
Louis G. Larsen, Jersey City, N. J., assignor, by direct and mesne assignments, to Wirthsen Associates, Inc., New York, N. Y., a corporation of New York
Application November 14, 1938, Serial No. 240,272
11 Claims. (Cl. 90—44)

1. In a slotting machine including a work support, a tubular member supported in fixed position above the work support with the bore thereof extending perpendicular to the work support, a tool carrying post extending through said member, means connected to and operative to move said post longitudinally to and away from the work support, a sleeve mounted in the bore of said tubular member having the bore inclined relative to the axis of the sleeve, a second sleeve in the bore of the first sleeve having the bore inclined relative to the axis of the sleeve and slidably engaged by and rotatable with the tool carrying post in the first sleeve, and said second sleeve with the tool carrying post adapted to be rotatably adjusted in the first sleeve and in one position of adjustment guide the tool carrying post with the tool to have movement in a plane perpendicular to the work support and in other positions of adjustment thereof guide the tool carrying post to move at different oblique angles relative to the work support and cause the tool to produce cuts diagonally of the work and vary the angle of cut of the tool.

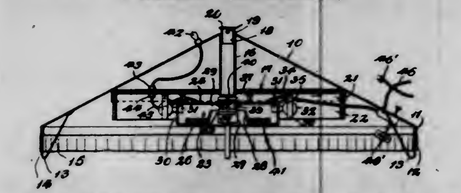


2,281,775
TELEGRAPH PRINTER
James W. Long, Plainfield, and George I. Roberts, Cresskill, N. J., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application September 13, 1938, Serial No. 229,672
53 Claims. (Cl. 178—29)



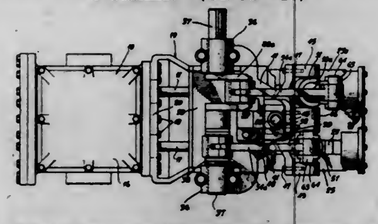
1. In a selector mechanism, a plurality of selectors, a plurality of latches, one individual to each of said selectors and normally latching said selectors in a latched position, means responsive to received permutations of impulses for selectively operating said latches to unlatch associated selectors, individual resilient means for pivoting said unlatched selectors to an unlatched position, a first power operated means for linearly moving said selectors from said unlatched position to a transferring position, and a second power operated means for moving said transferringly operated selectors to a preliminary resetting position, said resilient means then being operative to linearly move said selectors back into latching relation with said latches.

2,281,776
BROODER
James Lyon, San Diego, Calif.
Application August 2, 1940, Serial No. 349,573
2 Claims. (Cl. 119—33)



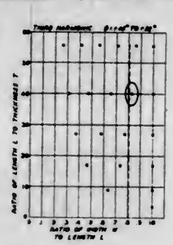
1. An electrical unit for mounting upon the ceiling element of brooders of the character described, comprising a case having a top wall and hanger arms whereby the device may be suspended in close spaced relation to a ceiling of the brooder, a plurality of heater lamps mounted on the periphery thereof, and a plurality of spaced apart attraction lamps mounted on the periphery thereof, an opening being formed through the unit from top to bottom, to admit air therethrough for projection horizontally outward of the unit, a motor mounted in the unit on a vertical axis and having an impeller operatively connected thereto to rotate closely over the unit, for the purposes described, means to operate the motor constantly, and means to operate the heater lamps and attraction lamps, alternately, for the purposes described.

2,281,777
ADJUSTABLE STROKE METERING PUMP
Martin Madsen, Alhambra, and Albert H. Ziegler, Hollywood, Calif., assignors to Madsen Iron Works, Huntington Park, Calif., a corporation of California
Application July 18, 1938, Serial No. 219,874
2 Claims. (Cl. 74—40)



1. In a metering attachment for use with a displacement pump of the character described having a reciprocative wall and a stationary wall structure to cooperate with said reciprocative wall, the combination of: an extension connected to said stationary wall so as to project therefrom, and having a guide lying along a line agreeing with the direction of movement of said reciprocative wall, a body slidable in said guide; a rod connecting said body to said reciprocative wall; a support projecting at right angles to said line, said support having a slide along a side thereof and bearing means to the outer end thereof; a member supported by said slide, said member having pivot means; a rocker arm pivotally connected to said body and projecting outwardly therefrom along said slide; a block having an opening therein through which said rocker arm is slidable, said block being connected through said pivot means with said member; a crank carried by said bearing means; a connecting rod connecting the outer end of said rocker arm with said crank so that rotation of said crank will produce reciprocation of the outer end of said rocker arm and a swinging movement of said rocker arm on said pivot means; and a screw extending along said support to move said member on said slide whereby to move said pivot means.

2,281,778
PIEZOELECTRIC CRYSTAL APPARATUS
Warren P. Mason, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 19, 1940, Serial No. 361,856
11 Claims. (Cl. 171—327)



1. A piezoelectric quartz crystal vibratory body having its opposite substantially rectangular major faces substantially parallel to an X axis and inclined at an angle of substantially +49° 30′ with respect to the Z axis as measured in a plane substantially perpendicular to said major faces, the major axis over-all length dimension and the width dimension of said major faces being inclined substantially 45 degrees with respect to said X axis, said over-all length dimension being in effect divided into a plurality of equal length elementary lengths corresponding to the numerical order of a desired harmonic frequency, said width having a dimensional ratio of less than substantially 0.8 with respect to said over-all length dimension, the thickness dimension between said major faces being one of the values substantially midway between the nearest values given by the relations:

$$\frac{L}{T}=\frac{m^2}{10.88n}$$

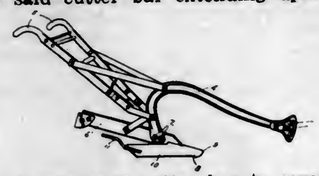
and

$$\frac{W^2}{LT}=\frac{m^2}{10.88n}$$

where L, T and W are respectively said over-all length, thickness, and width dimensions expressed in the same units, n is the numerical order of said harmonic frequency, and m is equal to $\pi(i+1/2)$ where i is an even order integer that is one of the integers 2, 4, 6, 8, 10, 12, 14, 16 and 18.

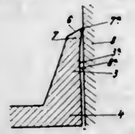
2,281,779
SUBSOIL STALK CUTTER
Robert E. McDonald, San Antonio, Tex.; dedicated to the free use of the People in the territory of the United States
Application August 29, 1940, Serial No. 354,705
1 Claim. (Cl. 55—60)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

An implement of the type mentioned comprising a long flat land-side bar to slide forward beneath the surface of soil, a flat duck-bill point on the front of said guide bar having its tip downwardly directed, a cutter bar having one end secured to one side of said guide bar near said duck-bill point and extending laterally and rearwardly therefrom, and a rod secured to the outer end of said cutter bar extending upward and



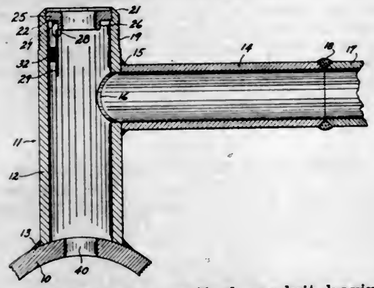
rearward from said cutter bar to sever lateral roots beneath the surface of the ground.

2,281,780
METHOD OF MAKING FLUID-TIGHT PACKING PIECES
Jean Mercier, Neuilly-sur-Seine, France
Application September 2, 1939, Serial No. 293,199
In Luxemburg October 22, 1938
7 Claims. (Cl. 29—156.6)



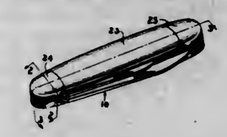
1. A method of manufacturing a packing piece of the type described which comprises starting from a cylindrical blank, machining said blank so as to form, at one end thereof, an annular lip of bevelled axial section, cylindrical on one side thereof and conical on the other side, cutting off the end portion of said annular lip so as to truncate it along a conical surface coaxial with said conical side of said lip and of the same direction but of greater apex angle, deforming the truncated end portion of said lip so as to project beyond the cylindrical surface thereof in the direction of the part with which the packing piece is to cooperate in a fluid-tight manner and mechanically hardening this end portion of the lip.

2,281,781
T-FITTING AND VALVE
Patterson D. Merrill, South Bend, Ind., and Frederick L. Green, Irvington, N. Y., assignors to M. B. Skinner Company, South Bend, Ind., a corporation of Indiana
Application March 17, 1939, Serial No. 262,350
1 Claim. (Cl. 137—69)



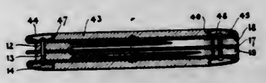
In combination, a vertical conduit having an open upper end, a branch conduit intermediate said vertical conduit, a ring disposed in a channel in the inner periphery of said upper end of the conduit, an annular flange carried by the conduit end and overlying the upper side of the ring, a reduced diameter collar projecting downwardly from the ring within the conduit, a bracket having a curved base secured to said ring and having a pair of spaced arms at its ends, a valve plate pivoted to said arms and adapted to seat flat on the end of said collar, said valve plate being of a size to normally depend from said bracket free from the inner wall of said conduit, said valve plate having an internally threaded socket and a locking member having a stem threaded in said socket and a head seated on the upper end of said ring.

2,281,782
KNIFE
Felix A. Mirando, Providence, R. I., assignor to Imperial Knife Company, Inc., Providence, R. I., a corporation of Rhode Island
Application March 10, 1941, Serial No. 382,557
11 Claims. (Cl. 30—164)



1. An ornamental covering means for a knife frame comprising a pair of separate bolsters, and an elongated preformed ornamental cover plate having longitudinal edges of the same general configuration as the edges of said knife frame, the ends of said plate underlying and contacting said bolsters, each of said bolsters having a plurality of spaced integral attaching means which positively and firmly hold the bolster to said knife frame whereby said cover plate is captively held between said bolsters and said knife frame, said attaching means comprising projections extending from oppositely disposed edges of the bolster.

2,281,783
KNIFE
Felix A. Mirando, Providence, R. I., assignor to Imperial Knife Company, Inc., Providence, R. I., a corporation of Rhode Island
Application March 10, 1941, Serial No. 382,558
16 Claims. (Cl. 30—164)



1. An ornamental covering unit for a knife frame comprising a separate bolster, and a preformed elongated ornamental cover plate, the longitudinal edges of said cover plate being of the same general configuration as the edges of the knife frame, said bolster having integral attaching means for clinching said bolster to said cover plate.

2,281,784
INSECTICIDE
Albert C. Mohr, Berkeley, Calif., assignor to Stauffer Chemical Company, San Francisco, Calif., a corporation of California
No Drawing. Application November 16, 1939, Serial No. 304,710
13 Claims. (Cl. 167—22)

1. An insecticide composition containing as an essential ingredient, an antimonyl derivative of a saturated monobasic aliphatic acid containing an alpha hydroxy group.

2,281,785
INSECTICIDAL COMPOSITION
Albert C. Mohr, Berkeley, Calif., assignor to Stauffer Chemical Company, San Francisco, Calif., a corporation of California
No Drawing. Application November 16, 1939, Serial No. 304,711
12 Claims. (Cl. 167—22)

1. An insecticidal composition containing as an essential ingredient, an antimonyl derivative of a saturated alpha monohydroxy dibasic acid.
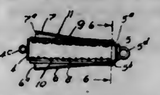
2,281,786
INSECTICIDAL MATERIAL
Albert C. Mohr, Berkeley, Calif., assignor to Stauffer Chemical Company, San Francisco, Calif., a corporation of California
No Drawing. Application November 16, 1939, Serial No. 304,712
8 Claims. (Cl. 167—22)

1. An insecticidal composition containing as an essential active ingredient, an antimonyl derivative of a saturated alpha hydroxy containing aliphatic acid having at least three carboxyl groups.

2,281,787
COMPOSITION FOR INSECTICIDAL USE
Albert C. Mohr, Berkeley, Calif., assignor to Stauffer Chemical Company, San Francisco, Calif., a corporation of California
No Drawing. Application November 16, 1939, Serial No. 304,713
12 Claims. (Cl. 167—22)

1. An insecticidal composition containing as an essential ingredient, an antimonyl derivative of a saturated dibasic aliphatic acid containing an alpha hydroxy group and at least two other hydroxy groups.

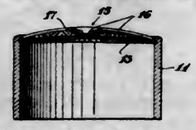
2,281,788
HONEY EXTRACTOR COMB POCKET MEANS
George L. Morris, Bonsall, Calif.
Application May 12, 1939, Serial No. 273,208
10 Claims. (Cl. 210—65)



1. In a honey extractor comb pocket means of the class described, the combination with a revoluble support, of a pocket member constructed and arranged for a single comb only and pivoted at one side edge on said revoluble support and provided with foraminous side walls adjacent the opposite side walls of a single honeycomb placed therein and a deflector member with one side secured adjacent one of said foraminous side walls and its other side diverging outwardly of said foraminous side wall leaving considerable space at the outer side between said deflector and said foraminous side wall.

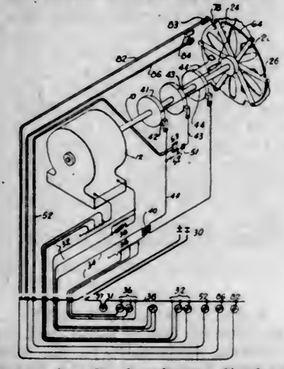
2,281,789
SHAVING APPARATUS
Frederick E. Moskovics, Greenwich, Conn., assignor to Eleanor U. Andrews, Greenwich, Conn.
Application December 1, 1939. Serial No. 307,005
10 Claims. (Cl. 30—43)

1. In a shaving device including an extremely thin skin-contacting shear plate having a plurality of small apertures therein through which hairs may be projected, a cooperating shearing element engageable with one surface of said shear plate and means for moving said shearing element relatively to said shear plate for cooperation with the edges of the apertures to sever hairs projecting through said apertures; the combination with said shear plate of at least one bar extending across a skin-contacting sur-



face of said shear plate having a substantially straight lateral edge substantially perpendicular to said shear plate and positioned immediately adjacent the edges of at least part of said apertures, said lateral edge of said bar being adapted to engage, lift and project hairs through the said apertures adjacent said lateral edge for severance by said shearing element.

2,281,790
LUMINOUS DISPLAY APPARATUS
Ralph P. Newhall, Conway, N. H., assignor to Kalorotor, Incorporated, New York, N. Y., a corporation of Delaware
Application March 11, 1940, Serial No. 323,403
24 Claims. (Cl. 240—10.1)

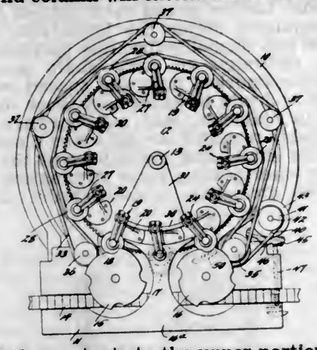


1. In apparatus for luminous display, having a rotating shaft and elongated tubular gas-electric colored lamps carried thereby in succession through an orbit, that improvement in which individual lamps of successively differing colors are set at substantial angular spaces apart around the orbit, and have their tubes severally continuous across the central region of rotation and across each other into opposite parts of the orbit.

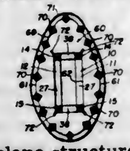
2,281,791
METHOD OF MIXING BEVERAGES
George W. Newton, Baltimore, Md., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York
Application February 6, 1940, Serial No. 317,584
1 Claim. (Cl. 259—57)

The method of handling a glass container having therein a carbonated water and a colored syrup heavier than the water and with the syrup arranged in a layer beneath the water, comprising maintaining the container upright and spinning it about its longitudinal axis at a speed sufficient to cause the syrup to be distributed by centrifugal action against and upwardly along the side wall of the container to form a band in

which the syrup will predominate and which will surround and partially mingle with a central column in which the carbonated water will predominate to give such column a low surface tension and thereby enable gas bubbles within the carbonated water to freely and promptly rise to the upper surface of such column and so that the band and column will extend from the lower portion of the contents to the upper portion thereof and the container contents will therefore be uniform in color when viewed along a line extending diametrically through the container, and then inspecting the container, while still maintained in said upright position, along a line extending diametrically therethrough from a point exteriorly of the container.

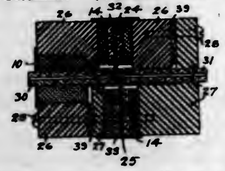


2,281,792
TOY AIRPLANE CONSTRUCTION
Joseph S. Ott, Chicago, Ill., assignor to Joe Ott Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application May 24, 1941, Serial No. 395,035
12 Claims. (Cl. 46—76)



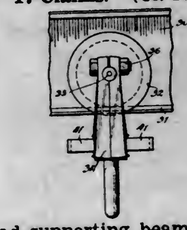
1. In a toy airplane structure and the like, the combination with a rigid elongated member to define the tubular frame of a structure, of enclosed former elements having openings therethrough conforming substantially with the cross-sectional shape of said tubular frame which is received therethrough and frictionally retained thereon to support said former elements in prearranged spaced relation with said tubular frame, and longéron ribs adhesively joined to said former elements to define a body of any selected contour.

2,281,793
MAGNETIC RECORDER
William P. Patrick, Vaughn, Wash.
Application December 27, 1938, Serial No. 248,015
10 Claims. (Cl. 179—100.2)



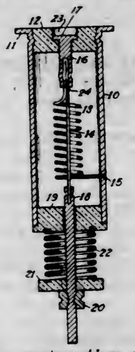
1. A magnetic recorder for magnetizing a wire to provide a sound record, comprising magnetic core means provided with a north and a south pole piece positioned in magnetically spaced apart relatively overlapped relation, said two pole pieces having registering openings in their overlapped portions through which a wire to be magnetized is passed with the wire extending in a direction substantially transverse to the planes of the pole pieces; and coil means on said core means connected with a source of electrical energy and magnetically energizing said north and south pole pieces.

2,281,794
TROLLEY FOR OVERHEAD CONVEYING SYSTEMS
Frank B. Peebles, Fairfield, Iowa, assignor to The Louden Machinery Company, Fairfield, Iowa, a corporation of Iowa
Application May 11, 1940, Serial No. 334,507
17 Claims. (Cl. 105—152)



1. A load-supporting beam construction comprising two similar halves separable substantially along an axial vertical plane, said half beams being provided with complementary load-supporting means intermediate their ends, each half beam having two bolt holes therethrough on opposite sides of the complementary load-supporting means and having a boss surrounding one bolt hole and a recess surrounding the other bolt hole, the boss of one half fitting in the recess of the other half.

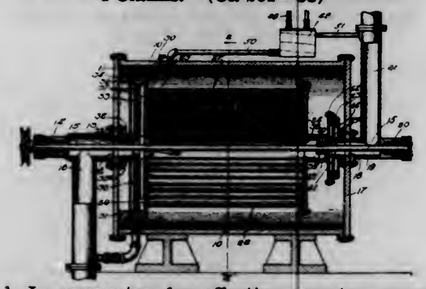
2,281,795
FUSE LINK CONSTRUCTION
Ralph R. Pittman and Carroll H. Walsh, Pine Bluff, Ark.
Application November 12, 1940, Serial No. 365,286
2 Claims. (Cl. 200—135)



1. A fuse link construction comprising a fusible element and a helically formed heater coil through which said fusible element extends, a tubular container of conducting material containing said helical coil and said fusible element, spring means associated with said fusible element and positioned externally at one end of said con-

tainer, said spring means urging said fusible element in an endwise direction to withdrawal from said container, conducting means at the other end of said container electrically connecting one end of said helically formed heater coil to one end of said fusible element, and means including an insulator interposed between said conducting means and said container for fastening the joined ends of said coil and fusible element to the other end of said container.

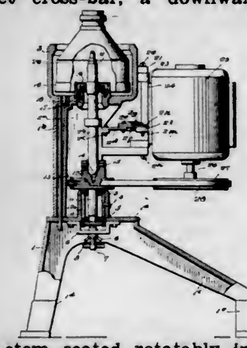
2,281,796
ART OF EFFECTING COUNTERCURRENT CONTACT BETWEEN FLUIDS
Walter J. Podbielniak, Chicago, Ill., assignor to Benjamin B. Schneider, Chicago, Ill.
Application March 8, 1935, Serial No. 9,923
4 Claims. (Cl. 261—83)



1. In apparatus for effecting counter-current contact between fluids, a rotor comprising passages of increasing radii communicating with each other, an outer casing with which the outermost of said passages communicates, means for supplying a liquid within said rotor, means for rotating said rotor to cause said liquid to pass outwardly through said passages, means for discharging liquid from said rotor comprising an annular chamber mounted on said rotor and communicating with the interior of the rotor, whereby liquid or heavy fluid leaving the rotor is collected within said annular chamber, and a stationary collector chamber extending into said annular chamber and provided with one or more openings through which liquid collected in said annular chamber may enter said stationary collector chamber.

2,281,797
CENTRIFUGAL LIQUID SEPARATOR
Miles S. Potter, Waterloo, Iowa, assignor to Associated Manufacturers, Inc., Waterloo, Iowa
Application February 29, 1940, Serial No. 321,514
1 Claim. (Cl. 233—23)

In a centrifugal liquid separator, in combination, a base-plate having a plurality of depending legs, and having an upwardly directed hollow standard fixed on and at one side of the plate and terminating upwardly in an upwardly cupped housing, cylindrical, and having a central circular bottom-apertured seat, and having offset therefrom a drain pipe traversing said bottom to depend therethrough and below said base-plate, a central upwardly directed tubular sleeve whose upper part is offset outwardly to seat removably on the inner rim upper face of the bottom of the housing and whose lower part depends through said apertured seat, the inner upper part of the sleeve being offset inwardly to provide an inner shoulder supported removably on the inner rim, said base-plate having a central integral upwardly directed cylindrically hollowed part, a cylindrical liner mounted removably in said hollowed part and having circular upper and lower recesses therearound in its inner wall, like ball-bearings mounted movably in said recesses, a centrally apertured plate secured coaxially and removably across the lower face of the base-plate, a cross-bar medially offset downwardly, having its end parts secured removably dependingly across the lower face of the base-plate and medially upwardly apertured and threaded centrally, an axial shaft positioned within the cylindrical liner and spaced laterally therefrom and with its upper part above the liner widened in diameter, said ball bearings being non-rotatably mounted on the lower diminished part of the shaft, said lower part of the shaft below the lower bearing plate terminating above said offset cross-bar, a downwardly directed



threaded stem seated rotatably in the medial apertured part of the cross-bar to depend therefrom and to contact the lower end of said stem, a nut mounted on said threaded stem below the cross-bar for vertical adjustments of the shaft, said axial shaft widened upper part being downwardly cupped, a rod crossing said cupped part and end-secured therethrough, an upper shaft section alined with the lower shaft part and having its lower termination transversely grooved to seat astride said rod, the upper shaft section extending upwardly and seated axially through said upper ball bearing, U-springs mounted contactingly between said ball bearing and the abutting inner wall of the tubular sleeve, a liquid separator bowl mounted axially and removably upon said offset sleeve mounted on said bowl bottom part, and means mounted on the lower shaft section to rotate it at a desired speed.

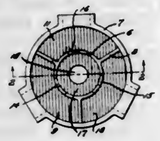
2,281,798
SUCTION CLEANER
Warren V. Prince, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application December 17, 1938, Serial No. 246,311
19 Claims. (Cl. 15—8)



1. A rotary agitator for a suction cleaner or the like including an agitating element subject to wear in use, means automatically to adjust said element radially to compensate for wear including a gauge to measure the radial extension

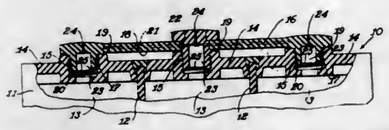
of said element and to control said adjusting means, and means to rotatably support said element and said adjustment means.

2,281,799
FLOW DISTRIBUTOR
Oscar E. Quave, Huntington Park, Calif., assignor to Utility Fan Corporation, Los Angeles, Calif., a corporation of California
Application March 30, 1940, Serial No. 327,085
3 Claims. (Cl. 137—166)



1. A structure of the class described including a device having a reservoir provided with an inlet, a plurality of spillways, compartments respectively arranged to receive the spillway discharges, and conduits secured to and leading respectively from said compartments to remote points; means at said remote points co-operating with each of said conduits and forming therewith the sole support for the device; said conduits adjacent said remote points being readily bendable so that the reservoir may be inclined as desired with respect to a horizontal plane, whereby the relative volumes of discharge through the spillways may be adjusted.

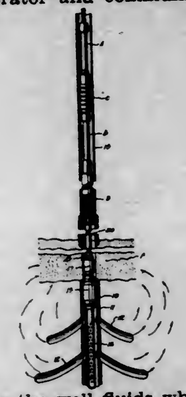
2,281,800
CLOSURE FOR STORAGE BATTERIES
Ernest H. Riedesel, Jr., Bennett, Iowa
Application May 7, 1940, Serial No. 333,860
5 Claims. (Cl. 136—177)



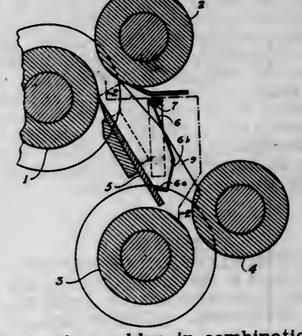
4. In a battery of the type having a plurality of separate cells each provided with a separate filler opening, a body, a plug rotatably but non-detachably carried by the body adapted for screw-threaded engagement with one of the filler openings, and plugs fixedly carried by the body adapted to be pressed into the other of the said filler openings.

2,281,801
METHOD OF AND MEANS FOR PUMPING WELLS
Joseph H. Reynolds and Arthur Sandhofer, Cisco, Tex.
Application December 20, 1938, Serial No. 246,801
17 Claims. (Cl. 166—2)

1. An apparatus for producing well fluids from a well bore including, a well packer adapted to be set in a well bore below the producing strata to seal off said strata from the formation therebelow, a water and oil separator above the packer for separating the water from the well fluids which rise upwardly in the well bore, means communicating with the separator for conducting the separated water downwardly through the well packer and to the formation therebelow, a well pump in said means for pumping the water under pressure into the formation, and a well pump above the separator and communicating therewith for lifting the well fluids which have been separated from the water to the surface.



2,281,802
APPARATUS FOR STRAIGHTENING THE EDGE OF A DOUGH SHEET PREPARATORY TO COILING
Albert O. Riordan, Saginaw, Mich., assignor to Baker Perkins Inc., Saginaw, Mich., a corporation of New York
Application July 24, 1941, Serial No. 403,850
7 Claims. (Cl. 107—9)

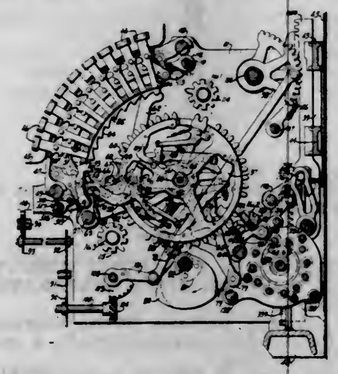


1. In a dough moulder, in combination, apparatus for straightening the leading edge of a dough sheet preparatory to coiling and moulding it into a loaf, comprising a stationary inclined guide member located between the last two pairs of sheeting rolls of a dough moulder to guide a sheet of dough from the next-to-last pair of rolls into the nip of the final pair and a yieldingly mounted hooked folding member normally in contact with said guide member operable to engage the leading edge of the sheet, direct it outwardly from said guide member approximately horizontally or downwardly and then fold said edge back upon the sheet for flattening between the final pair of sheeting rolls.

2,281,803
CASH REGISTER
William H. Robertson, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application November 16, 1938, Serial No. 240,810
20 Claims. (Cl. 235—2)

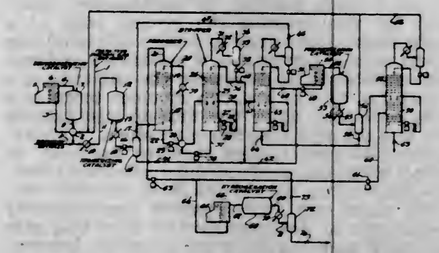
1. In a machine of the class described, the

combination of a plurality of lines of storage elements, each line having a plurality of sets of denominational storage elements thereon; a balance totalizer to compute amounts to be entered in the storage elements; actuators intermediate the balance totalizer and the storage elements on the various lines; key-controlled means to position the actuators in relation to the different sets of storage elements; means to connect the actuators with the balance totalizer in any shifted position of the actuators; key-controlled members movable in relation to the storage lines to select any one of said lines for



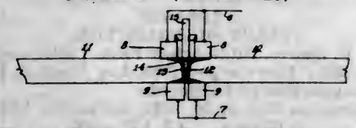
engaging and disengaging movement; engaging arms on the members movable in unison therewith into operative relationship with the selected storage line; means to move the engaging arms independently of the members to impart engaging movement to the selected storage line to engage the selected set of storage elements with the actuators; and means to yieldably drive the actuators in one of two directions to transfer amounts from said storage elements to the balance totalizer and in the other of said two directions to transfer amounts from said balance totalizer to the storage elements.

2,281,804
ISOMERIZATION OF OLEFINS
Robert F. Ruthruff, Chicago, Ill.
Application September 5, 1940, Serial No. 355,501
16 Claims. (Cl. 260—683)



10. In a process for the conversion of a normal butene to isobutene, the step including contacting said normal butene with a stabilized pyrophosphate of a metal selected from the group consisting of copper, mercury, zinc, iron, aluminum, cobalt and magnesium at a temperature of from about 250° C. to 450° C. for a time period and under a pressure such that isomerization of the normal butene proceeds at a substantially higher rate than butene polymerization.

2,281,805
METHOD OF ELECTRIC WELDING
Eduard Schenk, Oakdale, Pa.
Application April 28, 1941, Serial No. 390,688
5 Claims. (Cl. 219—10)



1. The method of welding which comprises so placing two metal members that their areas to be joined are in proximity to one another but spaced apart for the reception of filler metal, placing a metallic filler at said areas and directing a flow of alternating electrical current across said areas, from a pair of electrodes positioned against one face of the said members, at opposite sides of the space to be filled and in proximity to the adjacent edges of said areas, and through a similar pair of relatively-spaced electrodes disposed against the opposite face of said members and at the adjacent edges of said areas, the current flow across the said areas being always in the same direction at any given instant and maintained until the said areas and the filler metal become soft, the current frequency being such that there is magnetic concentration of current flow between the areas to be joined.

2,281,806
AUTOMOBILE ATTACHMENT
Joseph Schulman, Los Angeles, Calif.
Application February 8, 1941, Serial No. 378,068
3 Claims. (Cl. 116—28)

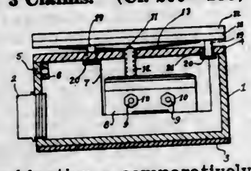


1. A warning signal for motor vehicles comprising a bracket adapted to be attached to the fender of a motor vehicle and provided at one end thereof with clamping means for positively engaging an edge portion of the fender, and at an opposite end thereof with a suction cup for detachably securing the second named end of the bracket on the fender remote from the edge of the latter, said bracket adapted to be mounted at the inner side of the fender to be concealed thereby and also having vertically spaced guide elements projecting therefrom, a curb contacting rod having an upper end engaged with said guide elements and vertically and rotatably movable relative to said bracket, said curb contacting rod having the lower end thereof offset relative to the first named end and disposed in a vertical plane outwardly with respect to the vertical plane of the fender, a clamp fixedly embracing the first named end of said curb contacting rod, and spring means engaged with said clamp and said bracket yieldably retaining the rod against rotation in either direction and also yieldably urging the rod downwardly for contact with a curb for transmitting, upon contact of the rod with the curb, a warning sound to the body of the vehicle.

2,281,807
DRYING PROCESS
John V. Shinn, Flushing, N. Y., and Aubrey W. Michener, Claymont, Del., assignors to General Chemical Company, New York, N. Y., a corporation of New York
No Drawing. Application June 12, 1940, Serial No. 340,056
5 Claims. (Cl. 159—49)

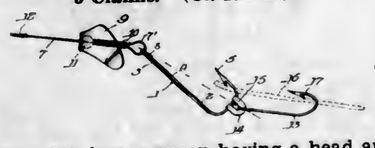
3. In the process for making substantially anhydrous disodium phosphate by procedure involving drum drying of run-of-plant disodium phosphate liquor containing a material of the group consisting of monosodium phosphate and trisodium phosphate, the improvement comprising forming and feeding onto the drying surface of the drum a disodium phosphate liquor containing by weight not more than 0.02% monosodium phosphate and not more than 0.05% trisodium phosphate, on a 50° Bé. at 212° F. basis.

2,281,808
SWITCH
Gilbert Smiley, Hingham, Mass.
Application February 4, 1941, Serial No. 377,301
3 Claims. (Cl. 200—153)



1. In combination a comparatively heavy casing, a switch having an operating pin operative by a longitudinal travel in the direction of the pin of the order of a small fraction of an inch, means suspending said switch within said casing in a position with the operating pin projecting from the top of the casing, a protective collar surrounding the operating pin, a leaf spring having more than two branches extending from the center hub, said center hub having a perforation through which said projecting collar extends, said spring at its hub resting against said casing, a plate positioned in parallel relationship over the top of the casing in juxtaposition with said operating pin and supported by the free ends of said spring and means directing travel of said plate within limits to and from the direction of the top of the casing.

2,281,809
FISH LURE
Earl W. Smith, Chicago, Ill.
Application April 15, 1939, Serial No. 267,980
3 Claims. (Cl. 43—42)

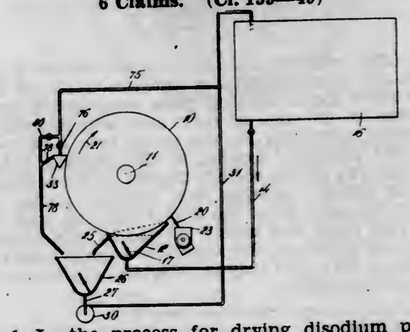


1. In a fish lure, a spoon having a head and a tail portion, means on the head portion for attachment to a line, the tail portion being enlarged at the sides thereof to provide defined ears, the total width of said tail portion being greater than that of said head portion, a hook having its shank secured to the upper face of said spoon adjacent the longitudinal axis thereof, with the barb extending upwardly, the head portion of said spoon being substantially flat, said ears being substantially flat and extending upwardly at an angle to one another.

2,281,810
EARTH CONSOLIDATION
John B. Stone, Tulsa, Okla., and Abraham J. Teplitz, Penn Township, Allegheny County, Pa.; said Stone assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan, and said Teplitz assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application January 19, 1940, Serial No. 314,726
14 Claims. (Cl. 61—36)

1. A liquid acid aqueous silica sol derived from the hydrolysis of an organic silicon compound and containing a polybasic acid of such character and in such amount as to delay the setting of the sol in the presence of calcium carbonate to between ¼ hour and 2 hours from the time of preparation of the sol.

2,281,811
DRYING PROCESS
William B. Towner, Westtown, Pa., assignor to General Chemical Company, New York, N. Y., a corporation of New York
Application June 12, 1940, Serial No. 340,060
6 Claims. (Cl. 159—49)



1. In the process for drying disodium phosphate liquor by procedure involving use of a drum drier, the steps comprising forming on the drying surface of the drum a layer of disodium phosphate liquor, heating said layer to convert the same to an at least partially dried crust, forming on such crust a layer of disodium phosphate liquor, and continuing heating of the disodium phosphate material on the drum drying surface to thereby form substantially dry material readily removable from said surface.

2,281,812
OPHTHALMIC MOUNTING
William R. Uhlemann, Evanston, and Louis J. Booth, Chicago, Ill., assignors to Uhlemann Optical Co. of Illinois, Chicago, Ill., a corporation of Delaware
Application May 31, 1941, Serial No. 395,996
2 Claims. (Cl. 88—53)

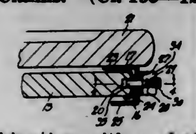
1. An ophthalmic mounting comprising a lens

rim of flexible plastic material in the general form of a split ring having a groove therein to engage and receive the lens edge, said split ring being formed entirely of plastic material throughout at least the major portion of its length, the ends of the split ring having parallel flat faces, adjacent ends of the split ring being separable to enable the insertion of the lens, a pair of temple hinge members, a first means for securing one of said hinge members to each of said adja-



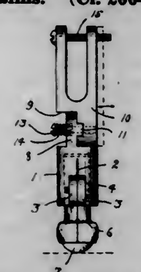
cent ends, means for securing said ends together to hold the lens in place, and a temple hinged to said hinge members, each hinge member comprising a flat plate portion lying between said adjacent ends and secured thereto, said flat plate portions engaging each other and the flat faces of the ring ends in abutting relation to hold the plastic split ring properly aligned with respect to the temple, the engaging flat plate portions being substantially coextensive with the abutting flat faces of the ring ends.

2,281,813
SLIDING TRAY FOR HIGH CHAIRS
Bernard Uline, Nappanee, Ind.
Application March 26, 1941, Serial No. 385,260
7 Claims. (Cl. 155—127)



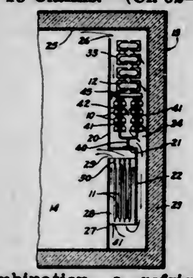
1. The combination with a chair having arm rests and a tray spanning said arm rests, of an apertured metal bearing plate conforming and secured to an edge of each arm and including a portion overlying the top of the arm, a pair of parallel channels secured to the opposite sides of said tray at the bottom thereof, said channels fitting slidably around said bearing plates to space the bottom of the tray above the tops of the arm rests, and means carried by said channels and fitting in the apertures in said bearing plates to lock said tray in selected position relative to said arms.

2,281,814
TORCH SUPPORT
Mark E. Willoughby, Superior, Wis.
Application July 9, 1941, Serial No. 401,611
4 Claims. (Cl. 266—23)



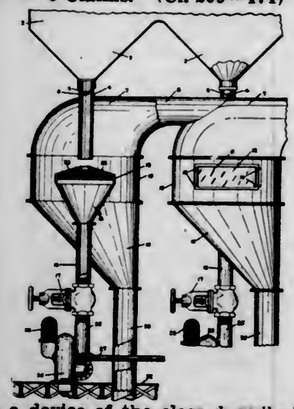
1. A plural tube torch support comprising a member having a longitudinally slotted shank for clamping engagement about the tubes of a torch, a lug extending from said shank, a hollow body portion having a lug extending therefrom and pivotally engageable with said shank lug, a socket having a shank longitudinally adjustable within said hollow body and supporting an anti-friction ball therein.

2,281,815
AIR CONDITIONING
Edmund Altenkirch, Neuenhagen, near Berlin, Germany
Application September 30, 1937, Serial No. 166,466
In Germany October 2, 1936
15 Claims. (Cl. 62—89)



2. In combination, a refrigerator chamber suitable to store food, means providing an air passageway having separate communication with both the top and bottom portions of said chamber, an evaporator of an intermittently operated refrigeration apparatus positioned to cool air in said passageway, and bodies of moist hygroscopic material in said passageway below said evaporator, said air circulating through said chamber and passageway by thermosyphonic action, coming first in contact with said evaporator and then with said hygroscopic material, whereby the air is chilled and then humidified by the evaporation of moisture from said hygroscopic material.

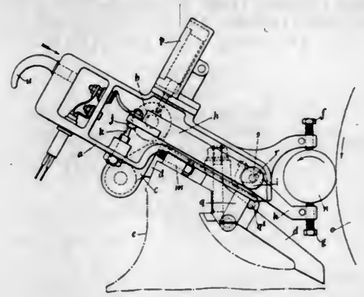
2,281,816
PNEUMATIC TREATING RECOVERY HEAD FOR DEHYDRATED ORE
Albert K. Andrews, Vancouver, Wash.
Application January 21, 1939, Serial No. 252,143
9 Claims. (Cl. 209—474)



8. In a device of the class described, comprising in combination a head that is circular in plan, and having a fabric felt top, with the felt being removable from the head and the felt

disposed in concentric rings that are arranged in stepped formation to form riffles of the felt top, a feed pipe disposed above the head and arranged to feed material to be treated upon the felt top, with the head being superposed an air pipe and means for delivering air in controlled amount and under pressure into the air pipe, so as to flow the air through the riffled felt.

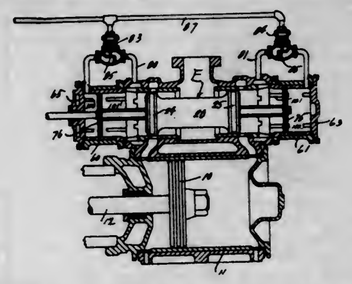
2,281,817
WORK GAUGING INSTRUMENT FOR PRECISION GRINDING MACHINES
Harry Hales Asbridge, Ashton-on-Mersey, England, assignor to The Churchill Machine Tool Company Limited, Broadheath, near Altrincham, England, a British company
Application March 31, 1941, Serial No. 386,154
In Great Britain March 21, 1940
2 Claims. (Cl. 51—165)



1. A work gauging instrument for precision grinding machines comprising, in combination, a base to be secured upon the grinding machine, a swinging frame, a work gauging contact secured in a bracket upon said frame, a lever pivoted in said frame, a work gauging contact secured in the lower end of said lever below the aforesaid work gauging contact, the weight of the lever tending to raise the gauging contact thereon, an indicating instrument upon said frame actuated by said lever, a link pivoted at its lower end to said base and at its upper end to said frame, a stop upon said base limiting the pivotal movement of said link towards the work, a second link pivoted at its lower end to said base and bifurcated at its upper end, the said links permitting the swinging movements of the frame towards and away from the work, a pin upon said frame entering said bifurcation and capable of riding upon the shaped bottom thereof when the work gauging contacts are being moved on to and away from the work, and a stop for limiting the movement of said bifurcated link towards the work.

2,281,818
RAILWAY LOCOMOTIVE PISTON VALVE INERTIA ARRESTER
Carl G. Ash, Pomona, Calif.
Application January 16, 1941, Serial No. 374,741
6 Claims. (Cl. 121—161)

1. In a piston valve inertia arrester for railway steam locomotive operating equipment, the combination of a piston valve, a piston valve cylinder therefor, a cushioning piston connected with the piston valve, a cushioning piston cylinder within which the cushioning piston operates, means for by-passing exhaust steam in the cushioning cylinder from one side of the cushioning piston therein to the other side at each end of the stroke movement of the cushion-



ing piston, and means for adjusting the cushioning pressure.

2,281,819
WALLPAPER REMOVING DEVICE
John F. Atkinson, Harrisonville, Mo.
Application April 11, 1940, Serial No. 329,077
7 Claims. (Cl. 126—271.1)

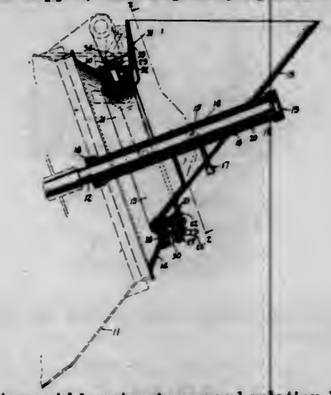


1. A wall paper removing device, including an applicator member having an open side chamber, a corrugated strip arranged in said chamber to form a spiral passageway with said corrugations extending transversely of said passageway to provide condensate collecting troughs, a permeable member closing the open side of said chamber and having sealing contact with an edge of said strip and forming an applicatory face through which steam from said passageway and condensate from said troughs are discharged into contact with a papered surface, means for supplying steam to said passageway, and a valve in the steam supply means for controlling flow of the steam admitted to the passageway.

2,281,820
TRUCK MIXER HOPPER
Charles F. Ball, Wauwatosa, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin
Application August 28, 1940, Serial No. 354,521
4 Claims. (Cl. 259—161)

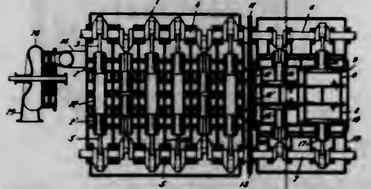
1. A hopper for concrete mixers having an open top portion for receiving materials to be charged, a cylindrical member attached to the lower portion of said hopper, said hopper having a curved and sloping bottom merging with the inside of said cylindrical member, a bearing disposed on the outside of said cylindrical member, an annular rotatable pressure plate mounted on

said cylindrical member for rotation with respect to said hopper, and angularly spaced members



retaining said bearing in spaced relation between said plate and said cylindrical member.

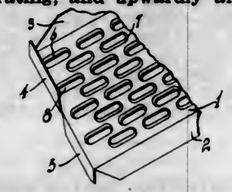
2,281,821
DIESEL ENGINE AND GAS COMPRESSOR COMBINATION
Richard Balmer, Winterthur-Seen, Switzerland, assignor to Sulzer Freres Societe Anonyme, Winterthur, Switzerland
Application February 8, 1938, Serial No. 189,392
In Switzerland February 12, 1937
4 Claims. (Cl. 230—56)



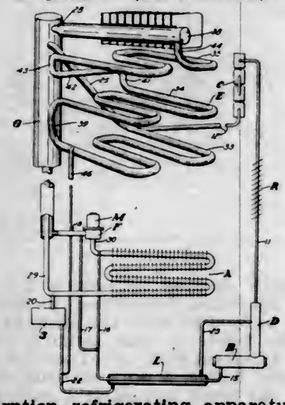
1. A Diesel engine and compressor combination for producing power-gas which comprises a two-shaft opposed-piston two-stroke Diesel engine, at least one compressor piston mounted on each shaft of the engine, said compressor pistons being arranged in pairs and to move in opposite directions, said shafts being connected together by a train of gears which synchronizes the shafts causing them to rotate at the same speeds but in opposite directions, the compressor pistons of one pair being so mounted on the shafts as to move in opposite directions to the pistons of at least one pair of pistons of the engine.

2,281,822
METAL GRATING
Claud H. Bills and George E. Young, Los Angeles, Calif.
Application September 24, 1938, Serial No. 231,556
2 Claims. (Cl. 189—33)

1. A metal grating comprising a plate, a plurality of rows of elongated embossings on the plate, each elongated embossing having an opening therein, the elongated embossing in one row overlapping the elongated embossing in the adjacent row, whereby the transverse strength of the plate is strengthened, the alternate rows of embossings being bent upwardly and downwardly whereby a drain is provided for the grating, an upwardly bent flange on one edge of the grating, a downwardly bent flange on the other edge of the grating, and upwardly and downwardly bent flanges on each side of the grating, whereby a reversible grating is provided.



2,281,823
REFRIGERATION
Milo E. Bixler and Curtis C. Coons, North Canton, Ohio, assignors to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application October 10, 1938, Serial No. 234,166
15 Claims. (Cl. 62—119.5)

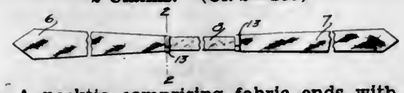


1. Absorption refrigerating apparatus of the type including an evaporator, means for supplying refrigerant liquid to said evaporator, and means for propelling a pressure equalizing medium upwardly through the evaporator under conditions such that the pressure equalizing medium will drag or sweep liquid refrigerant through the evaporator as it travels therethrough, characterized in that said evaporator includes a plurality of sections at different elevations and multi-staged lifting conduits interconnecting evaporator sections at adjacent elevations.

2,281,824
MODIFIED LUBRICATING OIL
Ulric B. Bray, Palos Verdes Estates, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application September 22, 1939, Serial No. 296,093
33 Claims. (Cl. 252—39)

1. A lubricating oil containing a relatively small proportion of an alkaline earth metal soap of a saponifiable organic acid to overcome the deposit of resinous and varnish-like materials in severe service internal combustion engines, and a relatively small quantity of an oil-soluble alkaline earth metal compound of a thio-phenolic derivative to overcome corrosive conditions developed in the oil, the added constituents not materially increasing the viscosity of the original lubricating oil.

2,281,825
NECKTIE
John W. Burkholder, Hudson, Wis.
Application May 6, 1940, Serial No. 333,672
2 Claims. (Cl. 2—155)



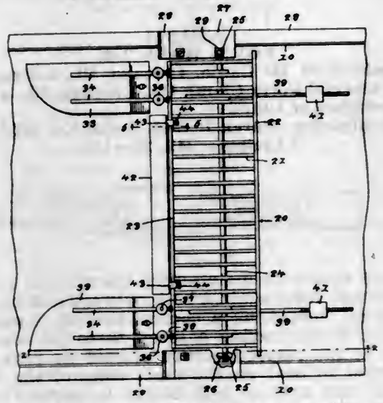
1. A necktie comprising fabric ends with an interposed anti-friction strip, the inner ends of the fabric being folded transversely around the interposed strip, a lining for the necktie applied to the surface of that portion of the anti-friction strip embraced by the folds of the fabric, transversely disposed stitching through the superimposed layers of material for retaining the parts assembled, and opaque adhesive tapes encasing the stitched portions of the fabric ends of the necktie and the interposed anti-friction strip, whereby the said adhesive tapes facilitate the movement of the tie while it is being adjusted in the folds of a collar.

2,281,826
FLOW CONTROL APPARATUS
Thomas R. Camp, Newton, Mass.
Application February 17, 1938, Serial No. 190,967
16 Claims. (Cl. 210—55)



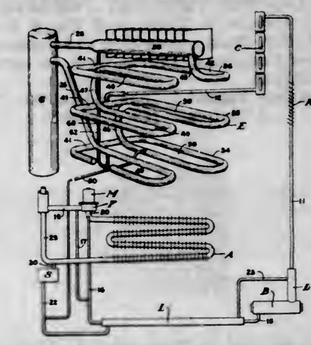
1. In liquid flow control apparatus, the combination with a settling channel through which liquid having solid particles therein is adapted to flow while some of the solid particles settle, of means for removing settled solid particles from said channel, a discharge control weir comprising a pair of substantially vertical walls, and means for adjusting the effective distance between such vertical walls.

2,281,827
DEBRIS SEPARATOR FOR COAL WASHING APPARATUS
Harry Cappellanti, Morgantown, W. Va., assignor of one-third to Frank Ellis Christopher and one-third to Philip Sheridan Davis, both of Morgantown, W. Va.
Application July 8, 1941, Serial No. 401,514
3 Claims. (Cl. 209—493)



1. A debris separator for coal washing machines comprising the combination with a tank in which water is pulsated to form waves, of a basket open at the front and at the ends extending transversely across the tank in position to intercept floating debris, vertically adjustable hangers on the sides of the tank, said hangers terminating at the lower ends in eyes, a shaft supporting the basket and loosely secured at the ends in the eyes to permit the basket to rock on a horizontal axis, spaced floats secured to the basket in advance of the open front end of the basket responsive to waves of the water to rock the basket and effect picking up of floating material by the basket and the segregation of such material in the basket, rods extending rearwardly from the basket, counterweights adjustably mounted on the rear ends of the rods for counterbalancing the weight of the floats, a flat gage plate extending longitudinally of the front lower end of the basket to permit various sizes of material being deflected underneath the basket, and means for holding the plate in adjusted vertical angular positions relatively to the basket.

2,281,828
REFRIGERATION
Curtis C. Coons, North Canton, and William H. Kitto, Canton, Ohio, assignors to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application October 10, 1938, Serial No. 234,165
14 Claims. (Cl. 62—119.5)

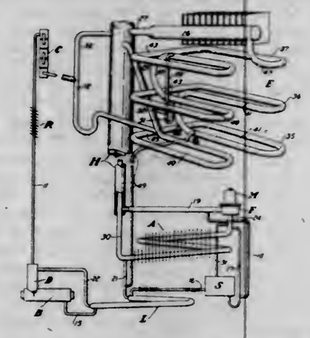


1. Refrigerating apparatus comprising an evaporator, means for supplying refrigerant liquid to an intermediate portion of said evaporator, means for propelling a dense inert gas upwardly through said evaporator from the bottom to the top thereof to circulate liquid refrigerant therethrough, means including a liquid trapping gas flow preventing part for draining liquid refrigerant from the top portion of said evaporator to a lower portion thereof, and means within said drain constructed and arranged to impede flow of inert gas therethrough prior to filling of said trap with liquid without materially impeding the flow of liquid from the top of said evaporator to the bottom thereof.

2,281,829
REFRIGERATION
Curtis C. Coons, North Canton, and William H. Kitto, Canton, Ohio, assignors to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application November 25, 1938, Serial No. 242,220
17 Claims. (Cl. 62—119.5)

1. Refrigerating apparatus comprising an up-

standing cooling unit, means for supplying a cooling medium to the lower portion of said cooling unit, means for circulating a pressure equalizing medium upwardly in said unit with sufficient



force to convey liquid therewith, and a pump operated by the pressure differential in the pressure equalizing medium in different portions of said unit for conveying cooling medium from one level to another therein.

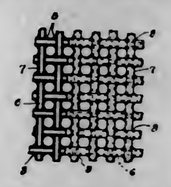
2,281,830

PROCESS OF TREATING TEXTILE FABRICS AND THE PRODUCT THEREOF

Lloyd G. Copeman, Flint, and Floyd E. Bartell, Ann Arbor, Mich., assignors to Copeman Laboratories Company, Flint, Mich., a corporation of Michigan

Application August 1, 1938, Serial No. 222,368

4 Claims. (Cl. 117—98)



1. The method of producing a fabric partially or wholly stabilized against slipping, comprising relatively slippable spaced interwoven threads, which comprises impregnating the contacting areas of interweave of said spaced interwoven threads of the fabric with a solution of a water insoluble synthetic resin, stretching the fabric to the desired width before drying, and drying said stretched fabric for such a time as to drive off the solvent and leave the water insoluble transparent covering of synthetic resin around each contacting area of interweave of said interwoven threads, whereby the fabric is stabilized against slipping without substantially changing the appearance of the fabric.

2,281,831

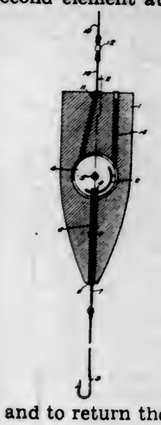
FISHING BOB

Sidney Courvelle, Alvin, Tex.

Application June 30, 1941, Serial No. 400,467

4 Claims. (Cl. 43—49)

1. A fishing bob having means to oscillate bait attached thereto comprising an arcuate rack carried by the bob, a geared spindle engaging the rack, the spindle projecting from the bob to carry bait to be oscillated, a flexible pull element attached to rotate the rack in one direction and a second element attached to exert an



opposing pull and to return the rack to its initial position.

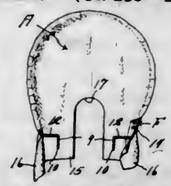
2,281,832

BARBER CHAIR ATTACHMENT

Samuel R. Cravotta, Uniontown, Pa., assignor of forty-five per cent to Joseph Sages, Uniontown, Pa.

Application June 3, 1941, Serial No. 396,445

4 Claims. (Cl. 155—188)



1. A hair catching attachment for a chair, comprising a frame substantially in the form of a C, the end portions of the frame extending inwardly and terminating in rearwardly extending arms, a head for each of the arms, means for pivotally connecting each arm and head, said heads being provided with sockets, rods freely engaging within the sockets of the heads, means for securing the rods to the back of a chair, and a mantle carried by the frame, the rear portion of the mantle having a neck opening.

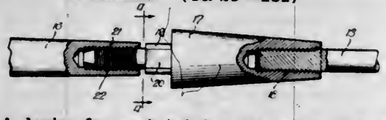
2,281,833

FORM WALL TIE

Dominick M. De Canio, Chicago, Ill., assignor to Universal Form Clamp Co., Chicago, Ill., a corporation of Illinois

Application March 7, 1941, Serial No. 382,176

3 Claims. (Cl. 25—131)



1. A device for maintaining the walls of a concrete wall form against both outward and inward bulging, comprising a central tie-rod, a pair of spacer blocks having a screw-threaded connection to the respective ends of said tie-rods and adapted to bear on the inner sides of the form walls, the ends of said blocks in contact with the form walls having each a shank adapted to

occupy a hole in a form wall and formed with a wrench-hold, stud-rods having a screw-threaded connection to the respective shanks identical with the screw-threaded connection of said tie-rod to said spacer blocks, and clamps engaged with the outer ends of said stud-rods.

2,281,834

SELF-HARDENING CEMENT FOR SPARK PLUGS

Karl Dietz, Cronberg, and Franz Privinsky, Hofheim, Germany, assignors, by mesne assignments, to Pen-Chlor, Incorporated, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application April 17, 1939, Serial No. 268,334. In Germany November 23, 1937

12 Claims. (Cl. 123—169)

1. A self-hardening cement for spark plugs obtainable by mixing a cement powder with a water-glass solution, the cement powder containing as main constituent a chemically indifferent pulverulent substance identical with at least one of the substances of which the bodies to be cemented consist and having substantially the same coefficient of expansion as the parts to be cemented in admixture with small quantities of metal compounds which, on making up the cement powder with the water-glass, react with formation of silicates which are infusible at the temperature of operation of spark plugs.

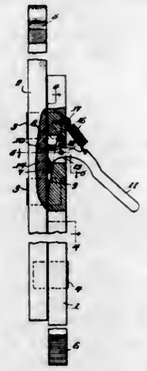
2,281,835

ADJUSTABLE SUPPORTING DEVICE

John W. Dollison, Newcomerstown, Ohio

Application May 5, 1941, Serial No. 391,989

4 Claims. (Cl. 248—353)



2. A supporting device comprising a pair of elongated sections, collars fixed to and connecting the sections together in face to face engagement for relative longitudinal slidable movement to vary the length of the device, one of said sections having a wedge shaped recess therein opening through the inner face thereof and being provided with an inclined inner wall, a wedge member slidably mounted on the inclined wall and having sharp edges for said member to set up a wedging and biting action on the other section to hold the sections against relative movement, said wedge member and recessed section having slots therein registering with the recess, a hand lever extending into and pivoted in the slot of the section and mounted in the slot of the wedge member for moving the latter to locked and released positions, and a spring connected to the recessed section and the hand lever to urge and hold the wedge member in locked position.

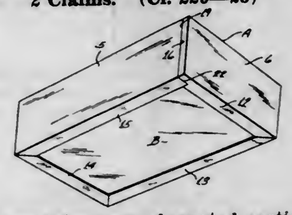
2,281,836

CONTAINER

William Engel, Clayton, Mo., assignor to Universal-Engel Paper Box Co., Inc., St. Louis, Mo., a corporation of Missouri

Application June 20, 1938, Serial No. 214,655

2 Claims. (Cl. 229—23)



1. In a container, an elongated section folded transversely along spaced lines to provide a rectangular enclosure comprising a plurality of upstanding wall-panels, the opposite ends of the section being in abutting relation intermediate a pair of the corners of the enclosure, a strip bridging the joint between, and adhesively fixed to and flatwise upon the inner face of, the end-portions of the section for securing said end-portions together, a bottom wall angularly disposed to, and positioned within the enclosure defined by, said panels, and marginal tabs on said panels folded under and fixed flatwise upon the marginal portion of the bottom wall, a pair of said tabs meeting at their ends in the formation of an L-shaped butt-joint therebetween, the longitudinal margin of said butt-joint being in alignment with the line of abutment between the opposite ends of said section.

2,281,837

METHOD OF FROSTING LUCITE

David Otis Ford, Petersburg, Va., assignor of one-tenth to Oliver E. Crocker, Petersburg, Va.

No Drawing. Application May 25, 1940, Serial No. 337,206

9 Claims. (Cl. 41—41)

1. In the art of treating a surface of a body of material composed solely or primarily of a polymerized derivative of methacrylic acid to form thereon a readily erasible coating, the method which consists in applying to said surface a solvent formed of ethyl or isopropyl alcohol to clean the surface, subjecting the surface to the heating action of a flame to burn off the surplus alcohol quickly and to heat the surface to a temperature higher than room temperature but lower than the melting temperature of the material, while still warm again applying said solvent and promptly subjecting the surface to the effect of a blast of air moving rapidly relative to the surface with the air at a temperature higher than room temperature but materially lower than the melting temperature of the material and continuing said air treatment until there appears on the surface a milky or frost-like white coating.

2,281,838

BEAM LOCKING DEVICE

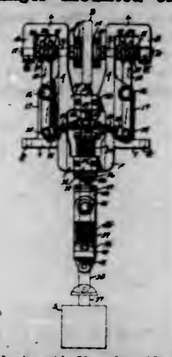
Harlan A. Hadley, River Edge, N. J., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois

Application June 20, 1940, Serial No. 341,417

3 Claims. (Cl. 265—49)

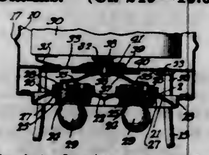
2. A locking device for a scale beam compris-

ing a U-shaped frame having arm portions extending vertically on opposite sides of said beam, beam-engageable rods mounted in aligned relation on said arms for endwise movement transverse to the direction of beam movement, an actuating plunger mounted on said frame for



movement substantially in the plane of beam movement, means operatively connecting said rods for movement toward and from each other by said plunger, said means including an actuating lever for each rod and a toggle link connecting each lever to said plunger, and electromagnetic actuating means for said plunger.

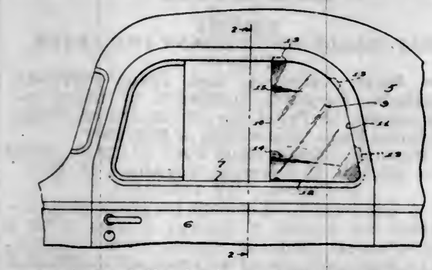
2,281,839
ELECTRIC LANTERN
Andrew T. Hagerty, Elkhart, Ind., assignor to The Adlake Company, a corporation of Illinois
Application October 1, 1938, Serial No. 232,819
12 Claims. (Cl. 240—10.63)



10. In an electric lantern, a casing having an open end, an inwardly facing peripheral seat formed adjacent to said end, a plurality of radially inwardly directed lugs providing an outwardly facing peripheral seat formed within the casing inwardly of said end, a reflector plate mounted on the first named seat, a battery supporting head having spaced marginal openings and adjacent seating portions detachably mounted on the second named seat, and resilient means reacting between said seats yieldably urging the plate and head each to its seat and constituting the sole means for holding the plate and head against their respective seats, whereby said head may be inserted through the casing past the lugs and rotated so that the seating portions of said head will be engaged by the lugs.

2,281,840
AIR DEFLECTOR FOR MOTOR VEHICLES
Clark S. Hamilton, San Diego, Calif.
Application September 28, 1940, Serial No. 358,907
1 Claim. (Cl. 296—44)

In combination with a side window of an automobile, said window having the usual vertically sliding glass for closing the same and guides for said glass, an air deflector comprising a sheet of transparent material shaped to provide bottom, rear and top edges which align with and are provided with engaging means engaging between the glass guides and the frame of the window at the inner side of the window opening, the forward edge of the sheet being inwardly bowed to present a slow inward curve at the top of the sheet which merges adjacent the horizontal central line into a much sharper outward



curve toward the bottom of the sheet, both of said curved portions merging into a plane surface toward the rear edge of the sheet which plane surface lies in substantially vertical alignment with said engaging means, and means adjacent the lower forward corner of the sheet for securing said sheet to the window sill.

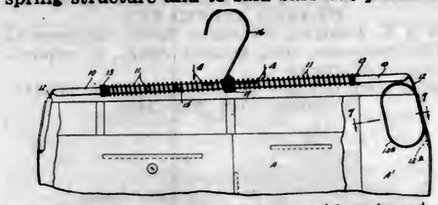
2,281,841
RAZOR
Neil Holsclaw, Chicago, Ill., assignor of one-half to Fred E. Sudlow, Rock Island, Ill.
Application July 16, 1938, Serial No. 219,620
2 Claims. (Cl. 30—43)



2. An elongated razor head adapted for shave movement crosswise thereof and comprising a face plate of shear cutter design in combination with a cutter plate also of shear design and, the latter plate being reciprocable lengthwise of said head, said face plate comprising a plurality of parallel bars disposed lengthwise of said head and each having a series of shear cutters disposed crosswise thereon and in staggered relation to the corresponding cutters on the next adjacent bar or bars and the second said plate having distinct cutter elements corresponding with and complementary to the several said cutters respectively on the said face plate, said cutters on said face plate having leading tips of wedge-shape with flared sides adapted to lift prostrate or recumbent hairs upwardly and into good cutting position.

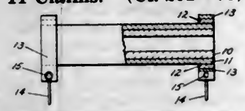
2,281,842
GARMENT HANGER
Carl A. Isaacson, St. Paul, Minn.
Application January 21, 1941, Serial No. 375,351
8 Claims. (Cl. 223—95)

1. A garment hanger involving a coiled spring structure, a pair of overlapping bars telescoped through said spring structure, and a hanger hook attached to the intermediate portion of said spring structure and to said bars but permitting



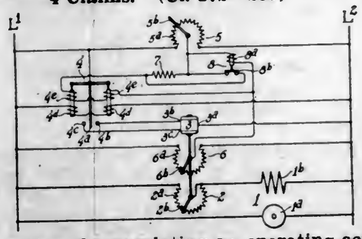
sliding movements of said bars, said spring structure exerting force tending to extend the bars.

2,281,843
METAL FILM RESISTOR
Joseph W. Jira, Newburgh Heights, Ohio, assignor to Continental Carbon, Inc.
Application February 3, 1940, Serial No. 317,154
11 Claims. (Cl. 201—76)



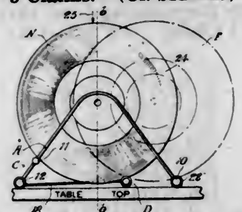
1. The process of constructing a resistance unit comprising the steps of providing a non-conductive carrier, providing a metallic organo-compound comprising an organic resinate of a substantially stable and substantially non-oxidizable metal, coating the non-conductive carrier with the metallic organo-compound, heating the coated non-conductive carrier to first atomically deposit a thin continuous film of the metal upon the non-conductive carrier and to secondly oxidize the carbonaceous residue remaining after the deposition of the thin film of metal, providing terminals for the resistance unit, and connecting the terminals to spaced surfaces of the thin film of the metal.

2,281,844
DISTANT CONTROL APPARATUS
Jesse E. Jones, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application October 7, 1940, Serial No. 360,036
4 Claims. (Cl. 172—239)



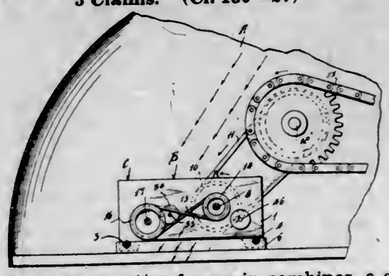
1. A system for regulating an operating condition of a device, comprising the combination with a sender source having an adjustable output voltage, of a receiver source adapted to supply a voltage which varies with an operating condition of the device to be regulated, a center biased relay having a pair of biasing windings energizable at a constant voltage and affording opposing torques on a control element of said relay and with a pair of control windings connected in circuit to respond to the potential difference between said sender and said receiver voltages, one each of said control windings being inductively related to one each of said biasing windings to produce opposite effects upon the latter, the control element of said relay being adapted to control said operating condition of said device in response to said potential difference, and a voltage relay connected to respond to said potential difference, said voltage relay including means affording different degrees of response of said center biased relay to said potential difference for potential differences above and below a given value, respectively.

2,281,845
PHONOGRAPH RECORD RACK
Arch Kaplan, South Fallsburg, N. Y.
Application August 26, 1941, Serial No. 408,305
5 Claims. (Cl. 211—40)



2. In a phonograph record rack, the combination of a rigid body and a horizontal movable intermediate member, the said rigid body containing a series of parallel arch-shaped partition elements terminating at two parallel record supporting members adapted to rest upon a flat surface, and the said movable intermediate member being interposed between and in parallel relationship to the said two record supporting members, and means provided for connecting the movable intermediate member to the said rigid body and for rendering the movable intermediate member movable, so that, when the rack is standing on a flat surface, stored records normally rest on one of the said two record supporting members and on the movable intermediate member, which movable intermediate member is, in turn, supported by the flat surface, and the records can be rolled on the movable intermediate member until stopped by the other of the said two record supporting members, but when the rack is lifted from the flat surface, the movable intermediate member will be caused to move downwardly permitting the records to rest upon the said two record supporting members.

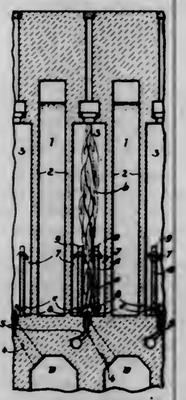
2,281,846
STRAW CUTTER FOR GRAIN COMBINES
William E. Klein, Pontiac, Ill.
Application June 15, 1940, Serial No. 340,828
5 Claims. (Cl. 130—27)



1. In a straw cutter for grain combines, a supporting frame, a plurality of rotary cutting

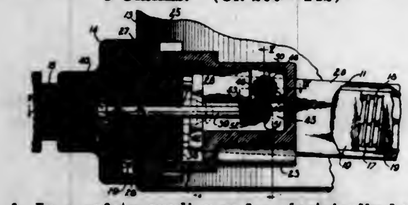
knives mounted in said supporting frame, stationary cutting blades co-acting with said rotary cutting knives, an agitator mounted in the supporting frame behind said cutting blades, a cleaning device for said rotary cutting knives, said cleaning device comprising a downwardly and rearwardly curved apron with transverse slots to receive the corresponding knives and means for raising and lowering the rear end of said apron.

2,281,847
CHAMBER OVEN FOR THE PRODUCTION OF GAS AND COKE
Heinrich Koppers, Essen, Germany, assignor, by mesne assignments, to Koppers Company, Pittsburgh, Pa., a corporation of Delaware
Application April 8, 1940, Serial No. 328,416
In Germany April 26, 1939
1 Claim. (Cl. 202—151)



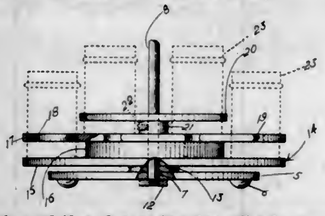
Chamber or retort oven for the production of gas and coke comprising: oppositely disposed stretcher walls forming the side faces of oven chambers, said stretcher walls being spaced from each other and interconnected by parallel vertical header walls which are also spaced from each other to form with the stretcher walls vertical combustion flues for upflow of flame of combustion of gas and air in direct contact with the stretcher walls; fuel gas and air inlet ports in the central plane of the bottoms of the vertical combustion flues; waste gas outlet means at the upper ends of said flues; and vertical recirculation ducts for adding part of the waste gases of combustion to the heating media introduced by the fuel gas and air inlet ports, each of said recirculation ducts being constituted of a short vertical partition disposed in a vertical plane of its heating flue so as to be interposed between the vertical planes of one of the stretcher walls and the fuel gas and air inlet ports, and being arranged therein so as to extend parallel to but only part-way up the lower half of the stretcher wall from adjacent the fuel gas and air inlet ports at the bottom of the combustion flue, each of said short partitions being spaced from its stretcher wall leaving the duct therebetween, and each said duct being connected at its upper part with its combustion flue at a level above the fuel gas and air inlet ports, so as to receive combustion products therefrom and being connected at its lower port with its combustion flue at the level of the gas and air inlet ports, so as to discharge the combustion products into the paths of flow from the fuel gas and air inlet ports.

2,281,848
SAFETY APPLIANCE FOR ELECTRICALLY HEATED APPARATUS
Alfred E. Lanigan, Ferndale, Mich., assignor to Electromaster, Inc., Detroit, Mich., a corporation of Michigan
Application October 31, 1938, Serial No. 237,848
3 Claims. (Cl. 200—142)



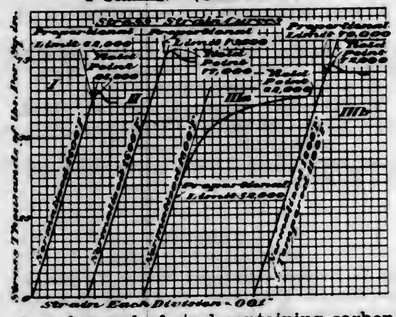
1. In a safety appliance for electrically heated apparatus, a metallic base adapted to support a heating element, an insulating member carried by said base, a straight plunger bar guidingly supported in said member for reciprocable movement and for lateral play movement therein and having a tooth at its innermost end, a spring surrounding said plunger and biasing its movement in an outward direction, a toothed ratchet wheel, a horizontally disposed shaft having a flat portion on one side only cooperating with the bore of said wheel to define a reservoir, a tooth of said wheel being engageable by the tooth of said plunger when the plunger is depressed against its spring, fusible means in said reservoir normally retaining the wheel against rotation at normal temperatures, but releasing it for rotation at abnormal temperatures, and a manually operable externally positioned circuit controller arranged in connecting position to depress the plunger and to be moved to disconnecting position when the plunger is released relative to the wheel.

2,281,849
ROTATABLE RACK
Richard B. McCoppin, Westchester, Ill.
Application October 2, 1940, Serial No. 359,349
1 Claim. (Cl. 211—74)



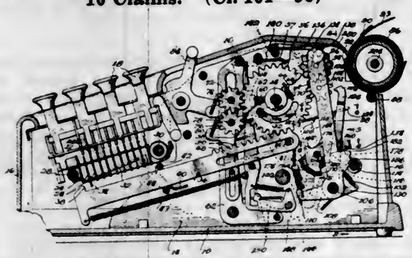
A device of the character described comprising, a base member, a handle member rotatably mounted therein, a washer member mounted on said handle member resting on said base member, a disc member rotatably mounted on said handle member and resting on said washer member, a bushing member rotatably mounted on said handle member resting on said disc member, a second disc member rotatably mounted on said handle member resting on the said bushing member, the said second disc member being provided with a number of openings adapted to hold removably a series of containers, a third disc member having a hub portion rigidly secured to said handle member adjacent the said second disc member, the said third disc member provided with a number of openings adapted to hold removably a second series of containers, the said second series of containers being confined within a circumference drawn tangentially to that portion of the bodies of said first series of containers nearest the geometric center of the said device.

2,281,850
SUCKER ROD STEEL
Paul E. McKinney, Bethlehem, Pa., assignor to Bethlehem Steel Company, a corporation of Pennsylvania
Application February 14, 1939, Serial No. 256,272
4 Claims. (Cl. 255—28)



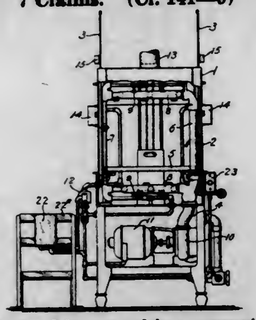
1. A sucker rod of steel containing carbon between approximately .1% and .6%, nickel between .4% and 1.2%, chromium between .2% and .8%, vanadium between approximately .1% and .4% having a normalized structure.

2,281,851
PRINTING MECHANISM FOR ADDING MACHINES
Thomas O. Mehan, Chicago, Ill., assignor to Victor Adding Machine Co., Chicago, Ill., a corporation of Illinois
Application February 1, 1937, Serial No. 123,320
10 Claims. (Cl. 101—96)



1. In an adding machine, the combination of pivoted arms, a numeral type wheel carrying pinion and an intermeshing idler pinion rotatably mounted upon each of said arms, said type wheels having type characters upon the peripheral faces thereof, a platen, means for selectively rotating said type wheels to position a predetermined type thereof for cooperation with said platen, springs for moving said arms and type wheels toward said platen, a sear for holding said arms and type wheels from movement under the influence of said springs, means to move said sear to release said arms and type wheels for movement toward said platen under the influence of said springs, normally ineffective latching means individual to each of said arms and means to move said latching means prior to releasing movement of said sear to positions to restrain their respective arms from movement toward said platen, said latching means having parts cooperable with said type wheel rotating means to prevent movement of said latches to arm restraining position when their associated type wheel rotating means have been operated.

2,281,852
DISHWASHING MACHINE
Allan H. Messler, West Hartford, Conn., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application July 8, 1940, Serial No. 344,297
7 Claims. (Cl. 141—9)



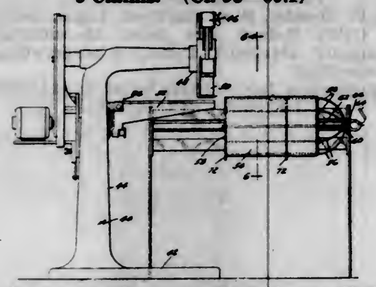
1. A dish washing machine comprising a casing having a vapor exhausting vent therein, a fluid discharge system within the casing, means for starting and stopping the discharge of fluid from said system, a loading door in said casing, a latch movable to and from a position preventing opening movement of said loading door, and automatically operable means for controlling said latch to effect movement thereof to latching position upon initiation of operation of the dish washing machine and for maintaining said latch in latching position during operation of the machine and for a predetermined time interval thereafter to permit the exhaustion of fluid vapor from within the casing before the door can be opened.

2,281,853
PERMANENT WAVE METHOD AND APPARATUS
Harry C. Miller, Meadville, Pa.
Application June 2, 1941, Serial No. 396,340
7 Claims. (Cl. 132—36)



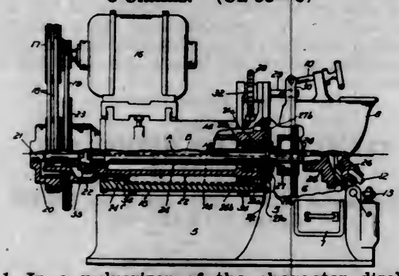
1. A method of permanently waving hair, comprising gripping a strand of hair between two elongated jaws, splitting the free end of the gripped strand transversely into left and right sub-strands, respectively, securing the free end of the left sub-strand to the right end of a first elongated mandrel, winding said left sub-strand on said first mandrel in one direction until said first mandrel lies adjacent said jaws, securing the free end of the right sub-strand to the left end of a second elongated mandrel, winding said right sub-strand on said second mandrel in the same direction until said second mandrel lies adjacent said jaws, holding said sub-strands in wound condition, and applying heat to the wound strands.

2,281,854
METHOD AND APPARATUS FOR PACKAGING ASPHALT AND CONTAINER THEREFOR
James Miller, Jr., Chicago, Ill., assignor to Trumbull Asphalt Company, a corporation of Illinois
Application August 2, 1940, Serial No. 349,511
5 Claims. (Cl. 93—39.1)



1. Apparatus for manufacturing cylindrical containers of paper material comprising a stitching machine having a stitcher head and an anvil disposed therebeneath, a cylindrical shell mounted upon a track for forward movement aligned with said anvil, wire guides within said shell and means associated therewith for forming a cylindrical container body so that the same may be stapled by said stapling machine.

2,281,855
PULVERIZER
William J. Moerlin, Otto Berndt, and Jess P. Wales, Denver, Colo., assignors to The Mine and Smelter Supply Company, Denver, Colo., a corporation of Colorado
Application July 1, 1940, Serial No. 343,362
3 Claims. (Cl. 83—8)



1. In a pulverizer of the character disclosed inclusive of a base structure, a grinding chamber, a stationary grinding member within the chamber, and a rotary grinding member positioned to cooperate with said stationary grinding member, the improvement which comprises a housing slidably mounted upon the base structure, means for moving said housing toward and away from said grinding chamber, a sleeve journalled for rotation in said movable housing, a shaft eccentrically journalled for rotation within the sleeve and extending into said grinding chamber for supporting and rotating said rotary grinding member, another shaft concentrically journalled within said rotary sleeve in axially spaced relationship to the eccentric shaft, means for transmitting rotary movement from the concentric shaft to the eccentric shaft, means for rotating the sleeve, and means for driving the concentric shaft therein at a greater number of revolutions per unit of time than the sleeve is rotated.

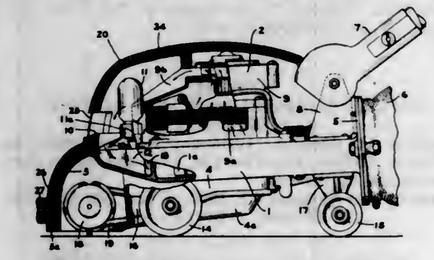
2,281,856
DIOCTYL CYANAMIDE AS AN INSECTICIDE
William Moore, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application June 7, 1940, Serial No. 339,273
5 Claims. (Cl. 167—22)

1. An insecticidal composition including dioctyl cyanamide.

2,281,857
ETHYL DINITRO SALICYLATE AS AN INSECTICIDE
William Moore, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application June 7, 1940, Serial No. 339,274
5 Claims. (Cl. 167—31)

1. An insecticidal composition including ethyl dinitro salicylate.

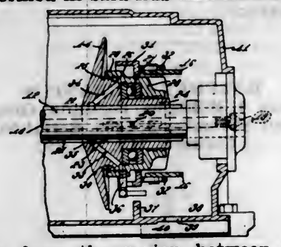
2,281,858
SUCTION CLEANER
Frank L. Pierce, Garden City, N. Y., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application December 29, 1939, Serial No. 311,491
4 Claims. (Cl. 15—16)



1. A suction cleaner comprising a wheeled casing including a fan chamber and a nozzle extending transversely across the front end of said casing and communicating with said fan chamber, a motor mounted upon said casing and driving a fan mounted in said fan chamber, and a one-piece housing of relatively light material adapted to extend over said casing with a portion enclosing said motor and a portion extending laterally and downwardly along the sides of said casing and forwardly and downwardly in contact with the outer surface of said nozzle with its lower edges flush with a marginal flange around the lower edge of said nozzle.

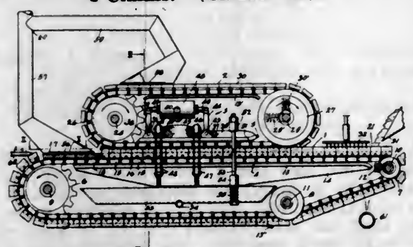
2,281,859
LUBRICATION DEVICE
Paul B. Reeves, Columbus, Ind., assignor to Reeves Pulley Company, Columbus, Ind., a corporation of Indiana
Application April 24, 1939, Serial No. 269,607
8 Claims. (Cl. 308—5)

1. The combination with a shaft of a coned disc splined thereon and axially slidable with respect thereto, means for introducing a lubricant between said shaft and said disc, said disc being provided with a hub projecting rearwardly from the face of said disc opposite its coned face, a stationary element sleeved on said hub, conduit means leading from the interior of said element to the outside thereof, and at least one passage formed in said hub and leading radially



outwardly from the region between said disc and said shaft to the interior of said element.

2,281,860
CONTINUOUS FEED AND PRESSURE PRESS
Jean C. Renault, Salinas, Calif.
Application May 27, 1939, Serial No. 276,205
8 Claims. (Cl. 100—35)



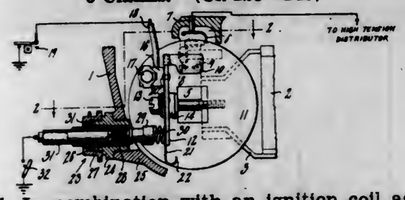
5. In a continuous feed and pressure press, a pair of endless conveyors arranged to have confronting flexible reaches adapted to advance material therebetween, a pair of plates bearing on opposite sides of said confronting reaches, separate means disposed at spaced points for urging the plates toward one another, and common operating means for the latter means operable to permit of rocking movement of one of the plates with respect to the other and about an object passing between the reaches.

2,281,861
CIGARETTE MAKING DEVICE
Herman F. Richter, Los Angeles, Calif.
Application December 26, 1940, Serial No. 371,647
3 Claims. (Cl. 131—75)



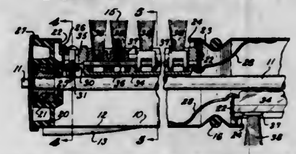
1. In a cigarette making device, a guide ring, a reciprocable tube extending through and slidably carried by said ring, a tamper fixed relative to said ring extending axially of said tube, a bit carried on the outer end of said tamper comprising a pair of outwardly diverging prongs, and a blunt tamping wall extending transversely between the bases of said prongs.

2,281,862
IGNITION COIL AND TERMINAL CONNECTOR THEREFOR
Wolfgang E. Schwarzmann, Longmeadow, and Charles Strniste, Agawam, Mass., assignors to American Bosch Corporation, Springfield, Mass., a corporation of New York
Application October 7, 1941, Serial No. 413,958
6 Claims. (Cl. 123—148)



1. In combination with an ignition coil associated with a mechanical interrupter of an ignition system, said coil having an insulated bus bar supported rigidly in relation to the coil, an insulated terminal plate which is mechanically fastened to the coil and which is electrically connected to at least one live terminal of the coil and also to the bus bar, and a wire connector which is electrically connected to the bus bar and which is fastened to a wire leading to the mechanical interrupter; of a terminal connector including a conductor mechanically and electrically engaged with the bus bar.

2,281,863
SUCTION CLEANER
Donald G. Smellie, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application July 10, 1939, Serial No. 283,517
4 Claims. (Cl. 15—183)

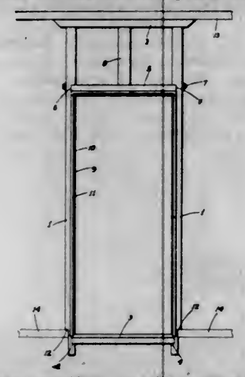


1. A rotary agitator for a suction cleaner comprising a body formed with an agitating element seat, a plurality of abutments at the opposite ends of said seat, the abutments at each end of said seat being spaced vertically therein and lengthwise of said seat, an agitating element in said seat adapted at its opposite ends to contact selectively said abutments at various heights therein upon being shifted lengthwise of said seat and for the purpose of varying the height of said element relative to said seat, means at one end of said seat to urge said element in all of its lengthwise positions outwardly against the abutments at that end, and means at the opposite end of said seat to urge said element inwardly in all of its lengthwise positions against the abutments at that end.

2,281,864
VERTICAL FRAMING CONSTRUCTION
Floyd E. Toothacre, Stockton, Calif.
Application May 13, 1940, Serial No. 334,869
4 Claims. (Cl. 20—11)

1. A prefabricated combination door frame and

building frame unit to fit between the top and bottom plates of a wall framing, the bottom plate being cut away for the width of the door frame, said unit comprising a pair of spaced studs, means on the studs adjacent their lower end to engage and rest on the bottom plate at the ends

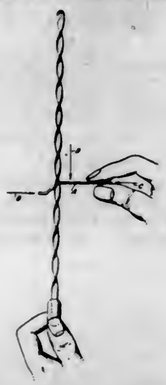


of the cutaway portion, a sill secured on the studs adjacent their lower end, means at the upper end of the studs to connect them with the top plate and a header forming the top of the door frame, secured on the studs below said connecting means.

2,281,865
PROCESS FOR SEPARATING HIGH MOLECULAR MIXTURES
Willem J. D. van Dijck, The Hague, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application March 20, 1936, Serial No. 69,823
In the Netherlands March 22, 1935
21 Claims. (Cl. 196—13)

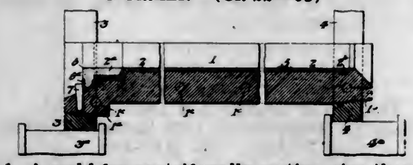
1. A process for separating a high-molecular mixture the constituents of which are totally miscible at the temperature of the process into portions having different properties, comprising the steps of subjecting said mixture, together with a quantity of a low-molecular treating agent, to temperature and pressure conditions at which said treating agent is in its para-critical state said temperature being above the critical temperature of said low molecular treating agent and at least a portion of the mixture is dissolved in the treating agent, thereby forming a liquid phase containing a treating agent and dissolved high-molecular substances, reducing the pressure under conditions causing a decrease in the density of the treating agent in said liquid phase, thereby causing the precipitation of a portion of the dissolved high-molecular substances from the liquid phase to form a separate heavier phase, and separating the resulting phases, the reduced pressure being sufficient to prevent all of the dissolved high-molecular substances from being precipitated and the temperature being below the paracritical temperature range for said high molecular mixture.

2,281,866
RATCHET MECHANISM
Ivan A. Williams, Portland, Oreg.
Application November 6, 1939, Serial No. 303,090
2 Claims. (Cl. 74—89)



1. A ratchet mechanism comprising a helical rotating member and a driver with a taper slot adapted to be angularly disposed to the axis of the helical member, said driver adapted to be so held that the small end of the slot co-acts with the helix when moved in one direction and disengages the helix when moved in the opposite direction.

2,281,867
CENTRIFUGAL SOIL PIPE CASTING MACHINE
Thomas P. Anthony, Edgewater Park, N. J.
Application November 8, 1939, Serial No. 303,449
3 Claims. (Cl. 22—65)

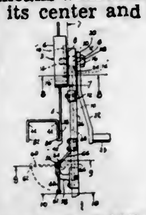


1. A mold for centrifugally casting pipe therein, including complementary semi-cylindrical sections of ferrous alloy, having cuprous metal inclusions therein at the respective crests of the semi-cylindrical sections; affording greater heat conductivity at the region of said inclusions than elsewhere in said sections; whereby semi-elliptical distortion of the respective sections by the heat of the molten metal therein is prevented.

2,281,868
REEL FOR LINE WASHING AND DRYING
Walter Boe and Tony G. Stuppy, San Gabriel, Calif.
Application June 21, 1939, Serial No. 280,316
3 Claims. (Cl. 242—104)

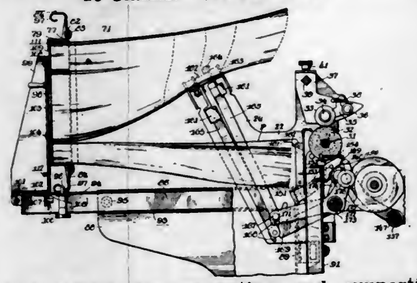
1. In the line reeling apparatus of the class described, a handle having an extension, a detachable hub member means having a stub shaft revolubly mounted within the end of said extension, a plurality of extension member means disposed in said hub member means extending

radially therefrom and each extension member means terminating with a U-shaped bend for collecting the line thereon, a crank member means connected to said stub shaft for revolving said hub member means with said extension member means about its center and for reeling said



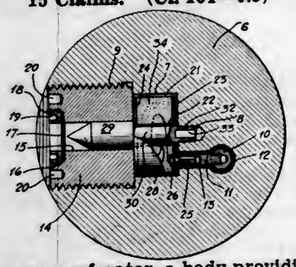
line thereon, a cam groove means disposed in said hub member means, and line controlling means associated with said cam groove means and connected to said extension of said handle for guiding and for controlling the position of said line upon said U-shaped bends, substantially as described.

2,281,869
DUPLICATING MACHINE
Ernest J. Brasseur, Winnetka, Ill., assignor to A. B. Dick Company, Chicago, Ill., a corporation of Illinois
Application January 8, 1940, Serial No. 312,849
16 Claims. (Cl. 101—419)



1. A device for separating and supporting prints delivered from a duplicator or the like comprising means for forwarding successive prints at a fixed delivery level, a book of spaced leaves bound at one end, leaf-supporting means to maintain the unbound end of the book above said delivery level whereby the leaves are flexed upwardly, means actuating said leaf-supporting means to release the free end of the lowermost leaf in timed relation to the duplicator, and book-supporting means movable to position the last released leaf below said delivery level.

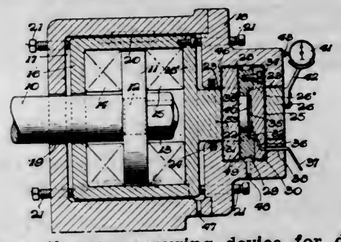
2,281,870
GUN PERFORATOR
Cawthern C. Cole, Whittier, Calif.
Application August 12, 1940, Serial No. 352,265
15 Claims. (Cl. 164—0.5)



1. In a gun perforator, a body providing a bore

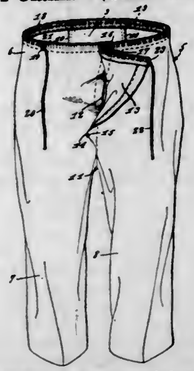
and rearwardly therefrom an explosion chamber having a recess in the rearward wall thereof; a projectile positioned in said bore making a gas tight fit therewith, projectable entirely therefrom and having a member extending across said explosion chamber and into said recess; and breakable projectile retarding means.

2,281,871
THRUST MEASURING DEVICE
Joseph Corby, Jr., Philadelphia, Pa., assignor to Kingsbury Machine Works, Inc., Philadelphia, Pa., a corporation of Delaware
Application September 15, 1939, Serial No. 295,131
20 Claims. (Cl. 265—1)



1. In a thrust measuring device for double-acting thrust bearings, in combination with a housing and a member for receiving the thrust on the oppositely acting bearings, hydrostatic means for measuring the thrust pressure including a pair of spaced elements having hydrostatic means interposed between the same, said housing being provided with opposed seats on the one or the other of which said elements are seated as the thrust is in one direction or the other, and means for transmitting the thrust on said member to said housing through said elements in one direction or the other depending upon the direction of thrust.

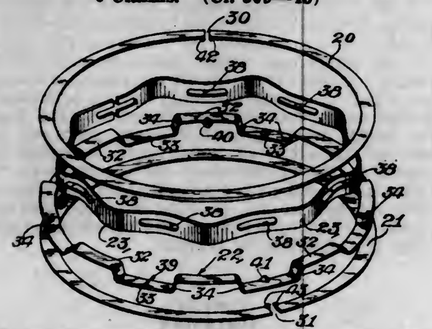
2,281,872
PAJAMAS
Alexander Donnelly, Brooklyn, N. Y.
Application November 22, 1940, Serial No. 366,767
1 Claim. (Cl. 2—237)



A trousers garment comprising a body portion formed integral with divided leg portions, the said body having the right front side terminating in a vertical edge extending from the crotch to the top edge thereof, the left front side of the body being formed with an extension disposed to overlie a portion of the right front side when the body is closed, the said extension portion of the

body terminating in an obliquely extending edge extending from the crotch to the top edge of the body so as to define a covering flap at the right side of the front, the top waistline encircling edge of the body including the flap being folded to form a drawstring receiving hem, a button secured to the front of the waist band hem adjacent the top of the vertical edge of the body for engagement with a buttonhole formed in the flap remote from its outer edge, the said hem having an aperture in its outer portion at a position spaced substantially to the right of the said button thereon and of the flap end of the waist band, and a drawstring extended through the waist band hem and disposed so that one end projects through the opening at the end of the hem and the edge of the flap and the opposite end projects through the said aperture in the hem, whereby the said drawstring will completely encircle the waistline of a wearer for tying between the said hem aperture and the flap end of the hem.

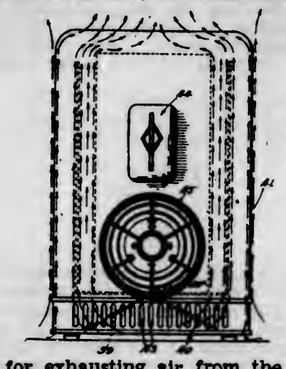
2,281,873
PISTON RING
Carl F. Engelhardt, Yeadon, Pa., assignor to Wilkening Manufacturing Company, Philadelphia, Pa., a corporation of Delaware
Application September 8, 1938, Serial No. 228,998
6 Claims. (Cl. 309—45)



2. In a composite piston ring, a thin, flat, trans-split annular sealing member having end-supporting toes bent transversely at its ends.

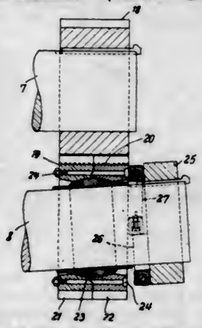
2,281,874
AIR CONDITIONING AND CIRCULATING APPARATUS
James M. Funk, Ottawa, Ill., assignor to Lonergan Manufacturing Company, Albion, Mich., a corporation of Michigan
Original application May 20, 1939, Serial No. 274,793. Divided and this application November 6, 1939, Serial No. 302,975
3 Claims. (Cl. 126—110)

1. In an air conditioning and circulating apparatus, the combination of a fuel burner having an enclosed casing therefor forming a combustion chamber, a cabinet enclosing said casing and being spaced therefrom to form an air passage between said casing and said cabinet, said cabinet having openings for permitting the entrance of air to said passage, a flue communicating with the upper end of said combustion chamber and extending therefrom through an opening in an outside wall of said cabinet, said opening being of substantially greater cross sectional area than the cross sectional area of said flue to permit the entrance of air from outside said cabinet and about said flue to circulate about said combustion chamber casing and to mix with the air in said air passage, and an air mover disposed in an opening at the lower end of said



cabinet for exhausting air from the apparatus and for creating a suction draft through said air passage.

2,281,875
POWER TRANSMITTING MECHANISM
Paul Gleissner, Dusseldorf-Oberkassel, Germany
Application August 18, 1939, Serial No. 290,885
In Germany March 10, 1938
3 Claims. (Cl. 38—44)

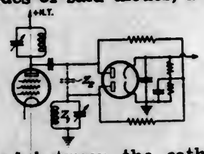


1. A calendering or other roller machine comprising a frame, a plurality of rolls mounted in said frame, means for swivelling one of said rolls with its axis oblique to that of another roll, bearings in said frame for the rolls those for the swivel roll being adapted to enable said roll to operate with said axial obliquity, a spherical bearing carried by said swivel roll, a toothed drive gear rotatable on said spherical bearing, a toothed gear on the other roll engaging said toothed drive gear, and clutch means on said swivel roll, said clutch means being adapted to couple said toothed drive gear to the swivel roll with the teeth of said gear in normal parallel engagement with the teeth of the gear on said other roll.

2,281,876
FREQUENCY CONTROLLING SYSTEM
Eric Alfred Green, Southall, England, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain
Original application December 28, 1939, Serial No. 311,312. Divided and this application May 7, 1941, Serial No. 392,361
9 Claims. (Cl. 250—27)

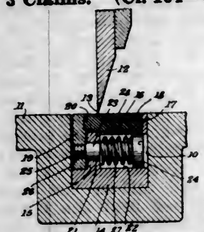
1. In combination with a tube having frequency modulated carrier wave energy applied

thereto, an inductive element in the plate circuit thereof, a pair of diodes, a resonant circuit connected between the anode of one diode and ground, a capacitative reactance connected between the anodes of said diodes, a resistive ele-



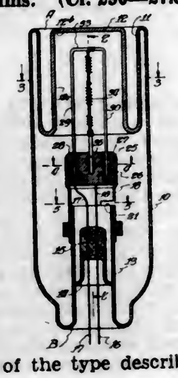
ment connected between the cathodes of said diodes, a carrier bypass condenser shunted across said resistive element, one end of the resistive element being grounded, a non-reactive connection between substantially the mid-point of said resistive element and the second of said anodes.

2,281,877
CUTTING STICK
Frank A. Green, Queens Village, N. Y.
Application October 21, 1940, Serial No. 362,003
3 Claims. (Cl. 164—58)



1. A cutting stick comprising a holder having a seat and provided with a wall flanking one side of said seat, a non-metallic member positioned upon said seat, a clamp plate flanking the other side of said seat, and means for yieldingly urging said clamp plate to clamp said member against the mentioned wall, said means comprising a plurality of studs carried by said clamp plate and each formed with a head disposed in a bore formed in said holder, and a compression spring engaged between said head and the base of said bore.

2,281,878
VALVE TUBE AND CASING THEREFOR
Joseph J. Heger, Chicago, Ill., assignor to Universal X-Ray Products, Inc., Chicago, Ill., a corporation of Illinois
Application August 2, 1940, Serial No. 349,509
6 Claims. (Cl. 250—27.5)



1. In a valve of the type described, the combination of a hollow anode, an electron emitting filament in said anode, a plurality of spaced metal posts extending along and disposed about said filament, two of said posts being connected at their tops by a connecting portion which constitutes a terminal and support for one end of said filament, at least one of the other of said posts being provided with a supporting arm extending to an intermediate point of said filament for supporting the filament, and a terminal for the other end of said filament.

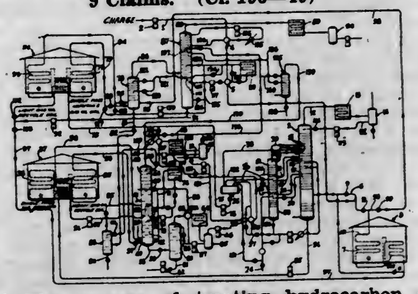
2,281,879
PREPARATION OF ORGANIC BASE COMPOUNDS
David W. Jayne, Jr., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application June 21, 1941, Serial No. 399,237
6 Claims. (Cl. 260—564)

1. A method of preparing an organic nitrogen base which is soluble in a water soluble alcohol, which includes reacting an inorganic salt of said base with an alkali-forming metal hydroxide in a medium of a substantially anhydrous water soluble alcohol, and removing the insoluble alkali metal salt thus formed.

2,281,880
FLOTATION
Benjamin Le Baron Johnson, Sewell, Rancagua, Chile, assignor to Braden Copper Company, New York, N. Y., a corporation of Maine
No Drawing. Application October 9, 1939, Serial No. 298,593
12 Claims. (Cl. 209—166)

1. The process of concentrating a metalliferous ore which includes agitating a pulp of the ore with a metallo-organic compound in which a metal is united directly with a nuclear carbon atom of an organic radical selected from the group consisting of alkyl, aryl, and aralkyl radicals, and subjecting the pulp to the action of a sulfidizing agent to yield a floating concentrate, said concentrate being separated.

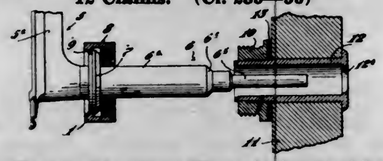
2,281,881
CRACKING OF HYDROCARBON OILS
Percival C. Keith, Jr., Peapack, N. J., and Joseph K. Roberts, Flossmoor, Ill., assignors of one-half to Standard Oil Company, Chicago, Ill., a corporation of Indiana, and one-half to Gasoline Products Company, Inc., Jersey City, N. J., a corporation of Delaware
Application February 11, 1937, Serial No. 125,204
9 Claims. (Cl. 196—49)



1. The process of treating hydrocarbon oil which comprises raising heavy residual oil such as reduced crude to a cracking temperature and

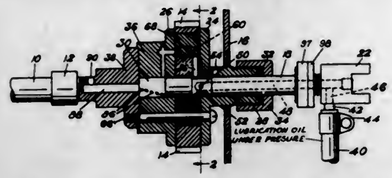
subjecting it in a first cracking zone to viscosity-breaking conditions to effect conversion into gas oil constituents, separating the resulting cracked products into vapors and liquid residue in a separating zone, fractionating the vapors in a fractionating zone to form a heavy reflux condensate and a lighter fraction comprising gas oil constituents, raising heavy condensate so obtained to a cracking temperature and subjecting it in a second cracking zone to viscosity-breaking conditions to effect conversion into gas oil constituents, introducing the resulting cracked products into said separating zone, withdrawing liquid residue from said separating zone and subjecting it to vacuum distillation in a flashing zone held under sub-atmospheric pressure to form a heavy flash distillate, introducing flash distillate so obtained into said fractionating zone so that any portion thereof remaining unvaporized after contact with the vapors undergoing fractionation will be charged to said second cracking zone with said heavy reflux condensate, introducing said lighter fraction comprising gas oil constituents into a second fractionating zone wherein fractionation with the attendant formation of a final desired light distillate and a reflux condensate occurs, heating reflux condensate so obtained to a cracking temperature and subjecting it to conversion in a third cracking zone, separating resultant cracked products into vapors and liquid residue in a second separating zone, passing the separated vapors to said second fractionating zone, conducting the liquid residue with a reduction of pressure into a second flashing zone held at a higher pressure than said flashing zone first-mentioned, and mixing resulting vaporized fractions with the vapors liberated in said separating zone first-mentioned prior to the completion of the fractionation thereof.

2,281,882
COUPLING
Russell C. Kinsman, Fairfield, Conn., assignor to Manning, Maxwell & Moore, Incorporated, New York, N. Y., a corporation of New Jersey
Application July 27, 1940, Serial No. 347,901
12 Claims. (Cl. 285—53)



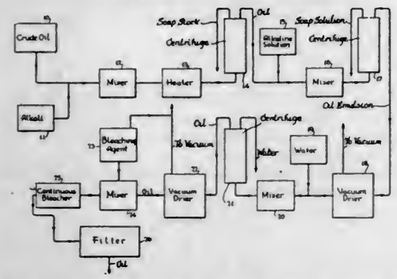
1. The combination with an instrument having a case provided with an elongate irremovable projecting boss having fixed thereto a disk-like member constituting one element of a union, and a union nut having internal threads for engagement with the other element of the union, said nut also having an inwardly directed radial flange whose inner diameter is too small to permit passage of the instrument case therethrough and which is of such internal diameter that it normally overlaps that surface of the disk-like member which is adjacent to the instrument case, the periphery of the nut, in the plane of said inwardly directed flange, being circumferentially continuous, said inwardly directed flange having slots axially extending therethrough located symmetrically with respect to a diameter of the nut, each of said slots being of a width at least as great as the thickness of that portion of the disk-like member which is of greatest diameter, the walls which define the width of each slot being inclined and making substantially equal angles with the plane of the end face of the nut.

2,281,883
SPEED CONTROL FOR ENGINES
Arthur Kosian, Chicago, Ill.
Application November 19, 1938, Serial No. 241,451
1 Claim. (Cl. 123—90)



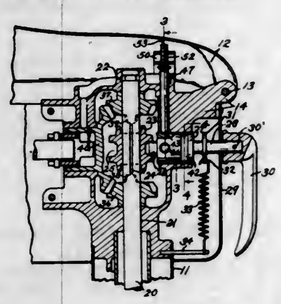
In an internal combustion engine having valves and a cam shaft, means for adjusting the timing of the exhaust valves, said means comprising an additional cam shaft operating on the exhaust valves only, driving means for said cam shaft including a gear mounted thereon and shiftable in a rotatable manner with respect thereto, means for manually controlling the rotatable driving relation of the gear to the cam shaft, said means comprising a housing formed by the gear and parts mounted on the shaft, a central cylindrical bore in the housing, a series of channels in the housing associated with the bore, hydraulic means for shifting the position of the gear in accordance with the adjustment of the manual control means, said hydraulic means including a hollow plunger shiftable within the bore to selectively control the channel openings and thereby the hydraulic means to regulate the driving relation of the gear on the shaft, and means for forcing oil as the hydraulic fluid through the plunger into the hydraulic means and through the selected opening of the series.

2,281,884
REFINING OF FATTY OILS
Francis B. Lachle, Philadelphia, Pa., assignor to The Sharples Corporation, Philadelphia, Pa., a corporation of Delaware
Application June 7, 1939, Serial No. 277,749
12 Claims. (Cl. 260—425)



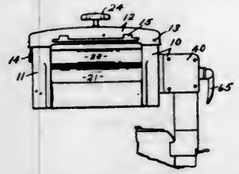
1. In the refining of fatty oils, the process comprising mixing an alkali with the oil in an amount sufficient to neutralize said oil substantially completely and to form soap stock, separating soap stock formed as the result of said alkali treatment from the oil, thereafter stabilizing the oil and improving the color thereof by mixing said oil, from which said soap stock has been removed, with an aqueous alkaline solution and thereby effecting fine dispersion of said alkaline solution in the oil, thereafter subjecting the oil containing finely dispersed aqueous alkaline solution to vaccum evaporation to effect concentration of the finely dispersed alkaline solution, and thereafter removing impurities from the oil.

2,281,885
WRINGER ROLL STOP MECHANISM
Thomas J. Litle, Jr., Syracuse, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware
Application August 22, 1939, Serial No. 291,373
4 Claims. (Cl. 68—253)



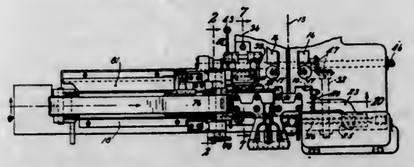
1. The combination with a safety device for releasing the roll pressure of a roll wringing mechanism having a power drive mechanism including a clutch for rotating the wringer rolls and a manual control including a rotatable cam shaft for operating said clutch, of separate power means for constantly urging said clutch to a neutral position, a plurality of recesses in said shaft positioned in spaced circumferential relation to each other, said recesses corresponding to operating positions of said control, a bolt, means for urging said bolt toward said shaft to engage with said recesses to yieldingly latch said control in an operating position against the action of said separate power means while permitting manual operation of said control, and bolt releasing means operated by said safety device for unlatching said control, thereby permitting said separate power means to return said clutch to the neutral position and stop said rolls.

2,281,886
ROLL STOP MECHANISM
Helmuth A. Schultze, Syracuse, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware
Application September 15, 1939, Serial No. 295,103
8 Claims. (Cl. 68—253)



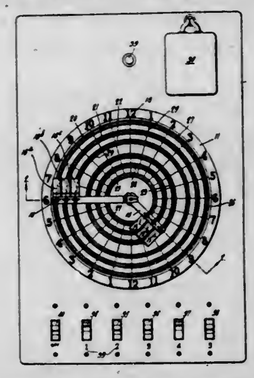
1. In a power driven wringer having a pair of rolls, means for maintaining pressure between said rolls and an emergency device for releasing said pressure, the combination of a clutch for transmitting power to rotate said rolls, clutch operating means including a cam, a handle rigidly connected with said cam, a spring adapted to yieldingly hold said cam in a neutral position and to return said cam to said neutral position when displaced therefrom, releasable holding means including a latch, a spring for loading said latch, a notch in said cam so positioned and arranged as to cooperate with said latch to hold said clutch in an operating position, and means associated with one of said rolls for releasing said spring load on said latch when said pressure between said rolls is released.

2,281,887
WRAPPING MACHINE
Elmer Lovell Smith, Longmeadow, Mass., assignor to Package Machinery Company, Springfield, Mass., a corporation of Massachusetts
Application July 28, 1939, Serial No. 287,106
11 Claims. (Cl. 93—2)



1. A wrapping machine comprising means for folding the end of a tubular wrapper extension with opposed tucks leaving opposite flaps spaced apart, a support positioned to lie between the spaced flaps, a solvent-carrying wicking exposed on the support adjacent each of said spaced flaps, movable means for pressing the flaps against the wicking, and means mounted for movement relative to the pressing means for creasing said flaps against the surface of the support.

2,281,888
APPARATUS FOR CONTROLLING HEATING SYSTEMS AND THE LIKE
Robert H. Snyder, Maple Shade, N. J., assignor of one-half to Stephen Haas, Philadelphia, Pa.
Application January 16, 1940, Serial No. 314,161
9 Claims. (Cl. 200—37)

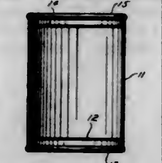


1. In a control of the type described, a pair of switch arms, means to move said arms continuously over fixed paths, one at a rate such that it completes a cycle of travel in a minor division of a day and the other at a rate such that it completes its cycle once a day, a plurality of brushes carried by each arm, all of said brushes being electrically connected to one another, a contact bar associated with each brush and over which the brush moves throughout its travel, removable elements of varied lengths associated with said bars and adjustably positionable along said paths, said elements constructed and arranged to disengage the associated brushes from their bars during passage of the brushes over the elements.

2,281,889
FASTENING AND SEALING RIM AND ARTICLE EMBODYING IT

Kimberly Stuart, Menasha, Wis., and Allen B. Wilson, Evanston, Ill.; said Wilson assignor, by mesne assignments, to Elizabeth R. B. Stuart, Menasha, Wis.

Application May 8, 1939, Serial No. 272,516
1 Claim. (Cl. 229—5.7)

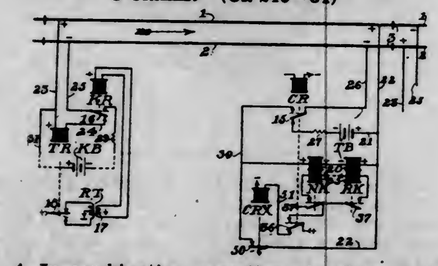


In an article of manufacture, a plurality of members constructed of sheet material and having edge portions disposed in engagement and defining a closed geometrical figure; a reinforcing rim disposed along and smoothly curved around the edge portions of said members, so as to cover the latter and conform to the shape of said closed figure and being tightly secured to said members throughout the length of said edge portions, said rim being of generally C-shape in transverse section and having its opposite lateral edges facing each other and tightly gripping opposite sides of the outermost of said members, thereby enclosing an edge portion of said members, said rim having a transverse cross-sectional dimension at right angles to the opposite sides of said members which is as great or greater than any other cross-sectional dimension thereof; said rim being longer than said edge of said article and having its ends telescoped one within the other, with their telescoped portions tightly gripped together, so as to provide a strong frictional interlock which will resist both lateral and longitudinal displacements of the ends of said rim with respect to each other.

2,281,890
APPARATUS FOR DETECTING THE APPROACH OF RAILWAY TRAINS

Crawford E. Staples, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application April 11, 1940, Serial No. 329,316
5 Claims. (Cl. 246—34)

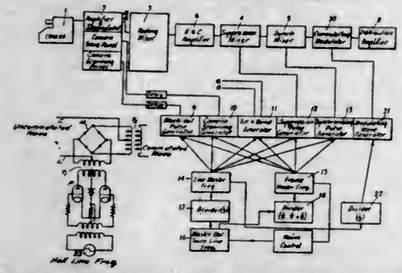


4. In combination, a section of railway track, means including a coding device at a given end of said section for supplying the section rails with master code energy in the form of recurring "on" period pulses that are separated by "off" period intervals, means effective under vacant conditions of said section and operated by said master code energy for further supplying said rails with feed back energy in the form of momentary pulses that recur in step with said master code "off" periods and that at times have the same polarity as do the "on" period pulses of said master code energy, a code following track relay at said given end of said section which is operable by said feed back energy, means controlled by said coding device for connecting said track relay in energy receiving relation with said section rails during said master code "off" periods whereby that relay receives and responds to the said pulses of feed back energy with which those rails are supplied, and means also controlled by said coding device for placing a momentary short circuit across said rails immediately following each of said master code "on" periods whereby to prevent said rails from accumulating a track storage potential of objectionable magnitude.

2,281,891
PICTURE TRANSMISSION, TELEVISION, AND THE LIKE

Victor John Terry, Aldwych, London, England, assignor to Western Electric Company Incorporated, New York, N. Y.

Application September 8, 1938, Serial No. 228,993
In Great Britain September 10, 1937
4 Claims. (Cl. 178—7.1)



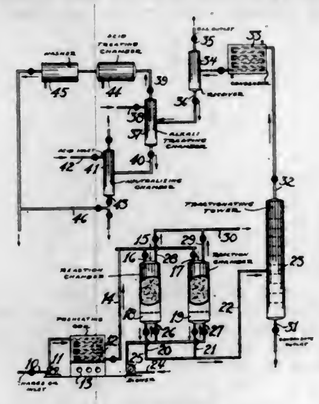
1. Television transmitter comprising means for scanning elemental lines of a field of view in succession to produce an image current, and means including commutating means for reversing in sign with respect to the preceding group every group of signal waves corresponding to the light-tone values of successively scanned lines or pairs or groups of lines, thereby eliminating or weakening the direct current component and the lower frequency components of the signal wave and producing components indicative of said eliminated or weakened components.

2,281,892
METHOD OF PRODUCING OXIDATION INHIBITORS

Joshua A. Tilton, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

Application March 4, 1939, Serial No. 259,781
4 Claims. (Cl. 196—38)

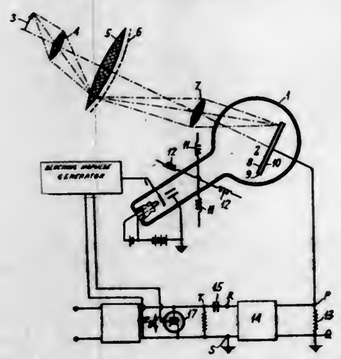
4. A method of producing a stable motor fuel of high anti-knock properties which comprises cracking higher boiling oil into motor fuel constituents in the presence of a solid catalyst, periodically regenerating said catalyst in situ with an oxidizing gas, treating the raw motor distillate from the process with an alkali solution capable of reacting with the hydroxyaromatic constituents contained therein to form a salt, separating the alkali solution containing the said salt from the distillate so treated, treating the alkali solution to decompose the salt to liberate oxidation inhibitors therefrom, further treating the alkali-treated distillate with acid to remove highly unsaturated constituents therefrom and thereafter adding to the acid-treated product at least a portion of the oxidation inhibitors liberated from the alkali solution.



2,281,893
TELEVISION SCANNING APPARATUS

Jan van der Mark, Eindhoven, Netherlands, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware

Application June 21, 1939, Serial No. 280,283
In the Netherlands June 23, 1938
4 Claims. (Cl. 178—7.2)

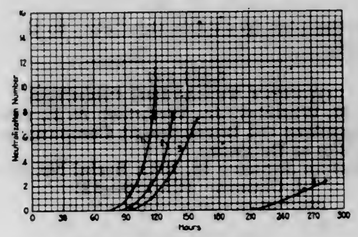


1. In a transmission system for transmitting representations of an optical image, apparatus for correcting for spurious signal and black spot effects comprising photo-sensitive target means onto which said optical image is impressed, electron beam scanning means for scanning said photo-sensitive target means at recurring intervals, means interposed between said photo-sensitive target means and said optical image to interrupt the impression of discrete sections of the image onto said photo-sensitive means, means for sectionally comparing the value of the signals developed from the portions of the target means onto which said image falls with signals developed from the target means from the sections thereof which lack the discrete interrupted sections of the image to be transmitted, said latter means including electrical energy storage means for storing energy representative of the light values on said scanned sections of the target, a leakage path for said electrical energy storage means, rectifying means connected substantially in parallel with said leakage path, means for blocking the scanning action of the target scanning means during one direction of its motion, and means for blocking said rectifying means substantially simultaneously with the blocking of said scanning means.

2,281,894
LUBRICATING OIL COMPOSITION

George Hugo von Fuchs, Wood River, and Hyman Diamond, Alton, Ill., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application January 18, 1940, Serial No. 314,438
6 Claims. (Cl. 196—151)



1. A lubricating or electrical oil composition comprising a refined mineral lubricating oil and dissolved therein a small amount of a highly cracked distillate oil free from tar selected from the group consisting of coking cycle stock and cracking coke blow down oil and having an initial boiling point above 500° F. and a specific dispersion above 200 said composition having greater resistance to oxidation than said mineral oil.

2,281,895
LIGHT SENSITIVE MATERIAL

Gottlieb von Poser, Wiesbaden, and Maximilian Paul Schmidt, Wiesbaden-Biebrich, Germany

No Drawing. Application November 14, 1940, Serial No. 365,652. In Germany November 20, 1939
25 Claims. (Cl. 95—7)

1. Light sensitive material which consists of a sheet support carrying a colored layer which layer changes their shade on exposure to light wherein the said layer comprises a dyestuff which is unstable to light and as a sensitizer a substance selected from the group consisting of anthraquinone and benzanthrone compounds.

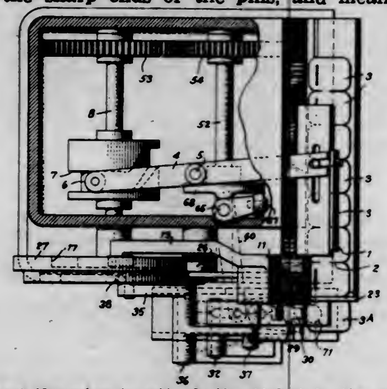
2,281,896
MARKING MACHINE

Joseph Weimont, Bogota, N. J., assignor to A. Kimball Company, New York, N. Y., a corporation of New York

Application August 28, 1940, Serial No. 354,465
9 Claims. (Cl. 93—38)

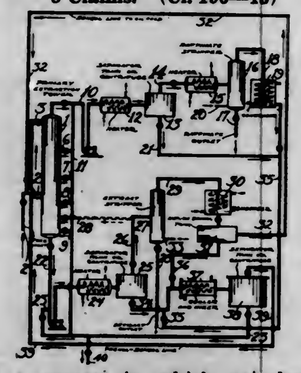
1. In a machine for attaching tickets to merchandise, which said tickets are provided with attaching pins projecting from one surface thereof, in combination, means to support the merchandise in attaching position, means to receive and carry a ticket to attaching position and to pass said pins through the merchandise while

advancing to attaching position, means to cut off the sharp ends of the pins, and means to



spread the pins to attach the ticket to the merchandise.

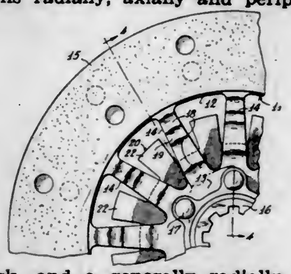
2,281,897
SOLVENT TREATING PROCESS
James M. Whiteley, Jr., Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application January 11, 1939, Serial No. 250,265
8 Claims. (Cl. 196—13)



1. In a process in which petroleum oil is treated with phenol and with benzol, and solvent extract and raffinate phases separated, the improvement which comprises mixing the respective separated phases with water under conditions to form phenol water phases and benzol oil phases, separating the benzol oil phases, removing the benzol therefrom and combining it with said phenol water phases, then subjecting said phenol water phases and added benzol to conditions to cause separation of a phenolic water phase and a phenol-benzol phase, recycling said phenol-benzol phase to said solvent treating system and introducing said phenolic-water phase into said raffinate and extract phases respectively.

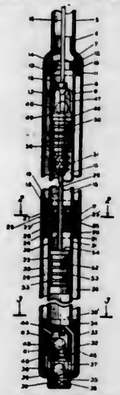
2,281,898
FRICTION COUPLING DISK
Owen M. Whitten, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Application July 22, 1940, Serial No. 346,817
2 Claims. (Cl. 192—107)

1. In a friction coupling disk, a hub, a disk comprising a hub portion attached to said hub, a rim portion, and integral spokes extending between said hub and rim portions and having bends extending generally axially of said disk to provide flexibility between said portions in directions radially, axially and peripherally of



said disk, and a generally radially extending member fixed to said hub and having portions engageable with the edges of certain of said spokes at said bends to limit the flexing thereof peripherally of said disk.

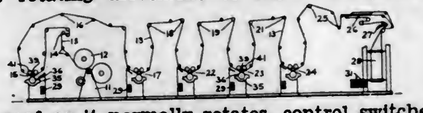
2,281,899
WELL EQUIPMENT
Charley L. White, Smackover, Ark., assignor to Phillips Petroleum Company, a corporation of Delaware
Application March 30, 1939, Serial No. 265,019
5 Claims. (Cl. 103—187)



1. A well pump of the character described, including: a housing member adapted to be suspended in the lower part of a well; a pump mechanism positioned within said housing member, said pump mechanism comprising an upper and lower cylinder, a partition member separating said upper and lower cylinders, fluid inlet and outlet means communicating with each cylinder, a traveling valve in the upper cylinder and a solid piston in the lower cylinder connected by a shaft slidably mounted within said partition member; means incorporated in said pump mechanism whereby pressure from the fluid column in the well is utilized to drive said piston; and a rod assembly adapted to reciprocate said traveling valve and piston.

2,281,900
CONTROL MECHANISM FOR PRINTING MACHINES
William C. Wieking, Woodhaven, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York
Application January 12, 1940, Serial No. 313,587
23 Claims. (Cl. 270—20)

3. In a printing machine, a plurality of printing units each having a form cylinder and a doctor blade adapted to be raised from and lowered into contact with the cylinder, a folding mechanism, means to drive the printing units and the folding mechanism in unison, a registering motor at each printing unit to superimpose rotary additive and subtractive registering movements on the rotating movement of the form cylinder



thereof as it normally rotates, control switches for each registering motor, one at each unit and one at the folding mechanism, and another switch at each unit in circuit with the control switches and being actuated by said doctor blade when it is raised, to close the circuit through said control switches and, when said doctor blade is lowered, to open the circuit through said control switches.

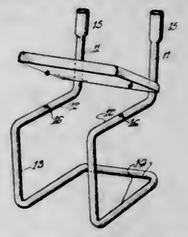
2,281,901
RIM AND RIMMED ARTICLE
Allen B. Wilson, Evanston, Ill., assignor, by mesne assignments, of one-half to Kimberly Stuart and one-half to Elizabeth R. B. Stuart, both of Menasha, Wis.
Application May 8, 1939, Serial No. 272,493
2 Claims. (Cl. 229—4.5)



1. An article of manufacture made of comparatively soft material and having an edge defining a closed figure, a rim of comparatively hard material disposed along, and smoothly curved around said edge so as to conform to the shape of said closed figure and tightly secured to said article throughout the length of said edge, said rim being of generally C-shape in transverse section and having its opposite lateral edges facing each other and embedded in opposite sides of said soft material adjacent said edge, thereby enclosing an edge portion, said rim having a transverse cross-sectional dimension at right angles to said opposed sides of said edge portion which is as great or greater than any other cross-sectional dimension thereof, said rim being longer than said edge and having its ends telescoped one within the other, with their telescoped portions tightly gripped together, so as to provide a strong tubular interlock which will resist both lateral and longitudinal displacements of the ends of said rim with respect to each other.

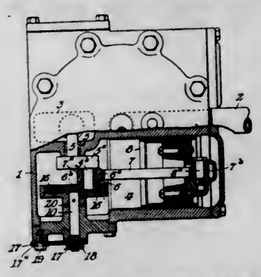
2,281,902
CHAIR
Sidney R. Witz, Chicago, Ill., assignor to Jacob Chaplik and Louis Chaplik, doing business as J. C. Plating Works, Chicago, Ill.
Application May 9, 1941, Serial No. 392,595
2 Claims. (Cl. 155—196)

2. A chair having a supporting base, resilient seat supporting portions extending from the upper end of said base, said seat supporting portions terminating in back posts extending upwardly from the rear ends, a seat, means removably connecting the seat to the seat supporting portions, a back rest having means whereby the back rest may be secured to the back posts when the latter are sprung laterally with the seat in place, the springing of the back posts and securing of the back rest serving to lock the seat



against removal from the seat supporting portions.

2,281,903
VARIABLE THROW CRANK
Joseph C. Woodford, Wayne, Pa., assignor to John Wood Manufacturing Company, Inc., Conshohocken, Pa., a corporation of Delaware
Original application December 19, 1939, Serial No. 309,949. Divided and this application November 4, 1940, Serial No. 364,265
5 Claims. (Cl. 74—602)

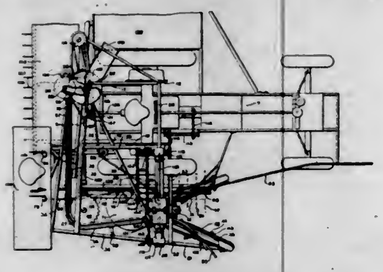


1. In a positive displacement fluid meter having a casing containing a piston cylinder and a piston mounted to reciprocate in said cylinder; the combination with a crank-shaft having an eccentric pin for effecting reciprocation of said piston; of an eccentric bushing sleeve mounted to be turned on said pin and having a cylindrical outer surface in eccentric relation to the axis of said pin; a piston rod pivotally connected with said piston and with said bushing sleeve; an externally toothed gear on one end of said bushing sleeve in concentric relation with the axis of said crank pin; a normally stationary shaft having an internally toothed gear rigidly mounted thereon and in mesh with said first gear; a web on said internally toothed gear; means at the outer end of said normally stationary shaft for turning it and thereby varying the eccentricity of the axis of said bushing sleeve with respect to the axis of said crank-shaft; and means for securing said normally stationary shaft in adjusted position in rigid relation with said casing.

2,281,904
HARVESTER
Allan R. Wurtele, New Roads, La.
Application November 15, 1938, Serial No. 240,480
22 Claims. (Cl. 56—17)

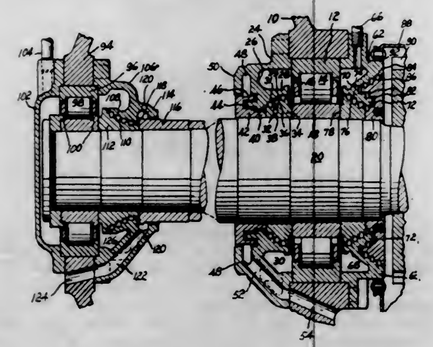
1. In apparatus for harvesting plants having stalks, a tractor having an engine for propelling the same and harvester means bodily detachable from and wholly supported by said tractor comprising means for cutting said stalks adjacent the ground, means for conveying said stalks along

at least one side of the tractor, and power transmitting means interposed between the drive



shaft of said engine and said cutting and conveying means for actuating the latter.

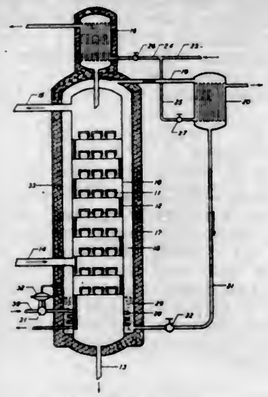
2,281,905
OIL SEAL OR GUARD
Otto W. Young, Maplewood, N. J., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 4, 1939, Serial No. 265,945
7 Claims. (Cl. 286—5)



1. In a device for sealing the space between a casing and a shaft which is journalled for rotation in the casing, a collar on the shaft at one side of the space and having a series of external oil slinging ribs of progressively increasing diameter, an oil retaining guard secured to the casing in a position to surround the collar and having an internally stepped portion, the steps being of progressively increasing diameter, and the corresponding steps and ribs having closely adjacent peripheral surfaces which slope away from the shaft in the same direction as the ribs progressively increase in diameter.

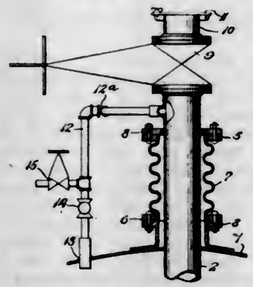
2,281,906
ADIABATIC FRACTIONATING COLUMN
Gale L. Adams, San Marino, Calif., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application March 11, 1941, Serial No. 382,777
9 Claims. (Cl. 257—64)

1. Means for controlling the temperature of the shell of a fractionating tower, comprising: a jacket forming a vapor space substantially surrounding said tower; a pool of substantially constant boiling liquid in the lower portion of said vapor space; heating means immersed in said pool, and condensing means communicating with



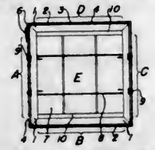
both the upper and the lower portions of said vapor space.

2,281,907
GAUGING DEVICE
Harold J. Ashlock, Aruba, Netherlands West Indies, assignor to Standard Oil Development Company, a corporation of Delaware
Application January 11, 1940, Serial No. 313,398
1 Claim. (Cl. 137—21)



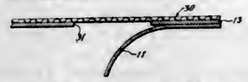
In a spheroidal storage tank for liquids held under greater than atmospheric pressure, a liquid level gauging apparatus for making liquid level measurements at atmospheric pressure comprising a tubular column extending vertically of said tank through the upper portion of the roof thereof and terminating above the bottom of the tank, a corrugated tubular expansion member connecting the column to the roof, a conduit in communication with the lower end of said column extending in a downwardly inclined plane substantially horizontally therefrom through a side wall of the tank, a second conduit communicating through said wall with the interior of the tank adjacent the lower level of liquid in the tank, a valved pipe connection between said conduits to control the inlet of liquid from the tank to the column, a valved flexible pipe connection between the upper end of the column above the expansion member and the interior of the tank, above the liquid therein, valve means for venting said column to the atmosphere, the valves when open permitting the liquid within the tank to flow into the column to a level equivalent to the level in the tank, and a closure for the upper end of said column giving access thereto for gauging the level of liquid therein when the valves are closed.

2,281,908
BOX
Guilford C. Babcock, Morris Township, Morris County, N. J., assignor to Stapling Machines Co., a corporation of Delaware
Application May 8, 1937, Serial No. 141,403
7 Claims. (Cl. 217—47)



1. A box comprising front, bottom, rear and top sections foldably connected together with flexible binders secured thereto, end sections secured to the front and rear sections and free of attachment to the top and bottom sections, the flexible binders at the front top corner edge of the box and at the rear bottom corner edge of the box being provided with interengageable fasteners whereby either the top fasteners or the bottom fasteners may be manipulated to open and close the box.

2,281,909
PRINTING STENCIL AND METHOD OF MAKING THE SAME
George Barsky, New York, and Frank A. Strauss, Staten Island, N. Y., assignors to Alfred S. Daneman, Dayton, Ohio
Application March 26, 1940, Serial No. 326,072
8 Claims. (Cl. 41—38.6)



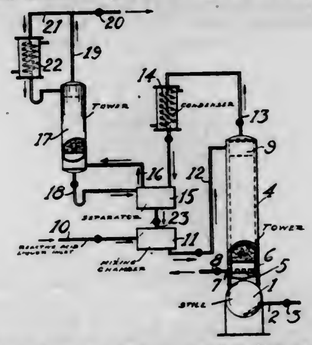
1. A printing stencil comprising a foraminous screen and a film cemented thereto, the film having openings therein corresponding to a design to be reproduced, said screen being formed from a vinyl resin spun into a fabric.

2,281,910
FLUX
Jerome Milton Bialosky and Menahem Merlub-Sobel, Cleveland Heights, Ohio, assignors to William L. Ulmer, Cleveland, Ohio
No Drawing. Application April 13, 1940, Serial No. 329,494
6 Claims. (Cl. 148—23)

1. A liquid for entrainment by gas to be delivered to a torch containing from 15% to 80% methyl borate, with the remainder one or more liquids which are physically and chemically compatible with said borate, said last-named liquid or liquids selected from the group consisting of ethers, ketones and esters and containing substantially less than 50% oxygen.

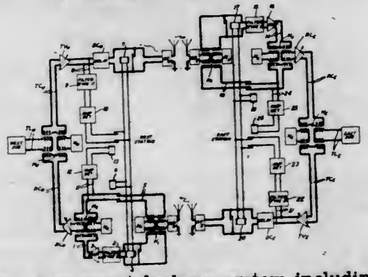
2,281,911
SEPARATION OF ISOBUTYLENE FROM HYDROCARBON MIXTURES
Lewis A. Bannon and Helmuth G. Schneider, Roselle, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application November 19, 1938, Serial No. 241,382
3 Claims. (Cl. 260—677)

1. In the process of separating isobutylene from mixtures of hydrocarbons, by forming an acid liquor by contacting a mixture of hydrocarbons containing isobutylene with sulfuric acid of 55% to 75% concentration, contacting and diluting the acid liquor to an acid strength of 45% to 50% the step of separating isobutylene by passing the diluted acid liquor through a fractionating column countercurrent to a stream of superheated steam, passing the stripped acid liquor to a concentrating kettle connected to the fractionating column, concentrating the acid liquor in said kettle to produce therefrom said cur-



rent of superheated steam, passing the separated isobutylene, together with steam and undecomposed isobutyl alcohol through a condenser to condense the steam and isobutyl alcohol, and returning the condensate to the fractionating tower together with a fresh supply of acid liquor containing isobutylene, whereby undecomposed isobutyl alcohol is returned directly to the fractionating tower.

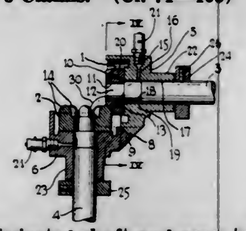
2,281,912
TWO-WAY SIGNALING SYSTEM
Bjorn G. Bjornson, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 21, 1941, Serial No. 394,421
10 Claims. (Cl. 179—170)



1. In a two-way telephone system including at each terminal station oppositely directed one-way transmission paths for the telephone signals transmitted in opposite directions, directional control means comprising at each station means normally disabling the transmitting path while allowing the receiving path to transmit substantially all frequencies in the voice frequency range, a transmitting switching circuit responsive to outgoing signals in said transmitting path, in the absence of prior incoming signals in the receiving path, to render said transmitting path operative to transmit substantially all frequencies in the voice frequency range, and to reduce the transmission frequency range of said receiving path to only a part, different for each terminal station, of the voice frequency range, and a receiving

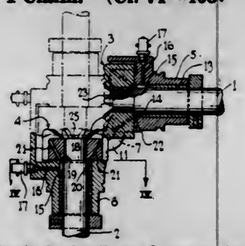
switching circuit responsive to incoming signals in said receiving circuit only when said transmitting switching circuit is unoperated, to disable said transmitting switching circuit.

2,281,913
POWER TRANSMISSION MEANS
Stephen H. Brooks, New York, N. Y., assignor to Brooks Equipment Corporation, New York, N. Y., a corporation of New York
Application August 21, 1940, Serial No. 353,476
3 Claims. (Cl. 74—468)



1. In a lubricated shaft and gear, including, in combination: a housing formed with an orifice for receiving a shaft; a shaft positioned in the orifice; a gear attached to the end of the shaft, said gear formed with ducts, said shaft formed with a reduced portion adjacent to and extending to the gear, and communicating with one end of the ducts; means to lead lubricant to said reduced portion extending to the gear face whereby lubricant may then pass through the through ducts in said gear.

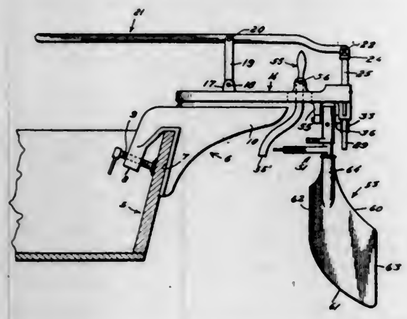
2,281,914
LUBRICATED SHAFT AND GEAR MEANS
Stephen H. Brooks, New York, N. Y., assignor to Brooks Equipment Corporation, New York, N. Y., a corporation of New York
Application September 12, 1940, Serial No. 356,486
1 Claim. (Cl. 74—468)



In a lubricated shaft and gear, including, in combination: a housing formed with an orifice for receiving a shaft; a gear formed with teeth on said shaft; a bushing positioned between the shaft and the housing, said bushing terminating short of the end of the housing adjacent the gear providing a chamber, and said bushing provided with a cut-away portion; a duct in the housing communicating with the said cut-away portion; said gear formed with a plurality of ducts, each duct opening at one end at the face of the gear between teeth and at the other end at the said chamber whereby lubricant may be inserted in the duct of the housing and flow along the cut away portion to the said chamber and thence to and through the ducts opening at the face of the gear.

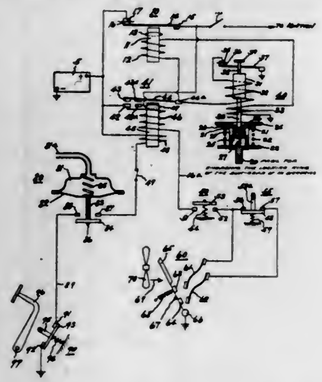
2,281,915
PROPELLING AND STEERING DEVICE
Hermenegilde Carrier, Amesbury, Mass.
Application November 25, 1940, Serial No. 367,086
4 Claims. (Cl. 115—29)

3. In a propelling and steering device for a boat, a bracket for attachment to the stern of the boat, a support mounted on the bracket for swinging movement on a vertical axis, a water foil assembly carried by said support and embodying a depending water foil arranged for side-to-side movement and for movement about a vertical axis and stop means to limit rotation



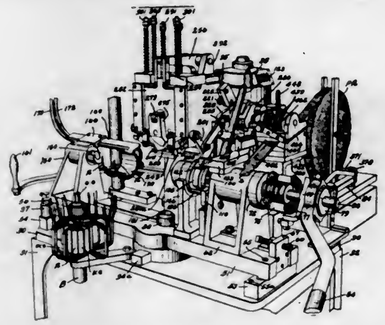
of said water foil on its axis, a lever rockably mounted on said support, an operating connection between said lever and said water foil for imparting side-to-side movement to said foil, and a locking lever on said support movable into and out of engagement with a part of said stop means for locking the water foil in substantial alignment with said support.

2,281,916
OVERDRIVE CONTROL SYSTEM
Edward M. Claytor, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 19, 1940, Serial No. 357,454
11 Claims. (Cl. 192—3)



1. An overdrive control system comprising a current source, a pawl for engaging the locking ring of the sun gear of an overdrive, a solenoid for moving the pawl, means responsive to a predetermined vehicle speed for connecting the current source with the solenoid and means responsive to engine intake vacuum for maintaining but not establishing the connection between the current source and the solenoid although vehicle speed may fall substantially below said predetermined vehicle speed.

2,281,917
ARMATURE ASSEMBLING MACHINE
Edward W. Collins and Martin L. Carpenter, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 17, 1940, Serial No. 330,136
15 Claims. (Cl. 29—84)



1. A machine for operating upon an armature assembly comprising a shaft carrying a slotted core in each slot of which there is located an inner active side of an armature coil, said machine comprising means for rotatably supporting the armature; means at a predetermined location for successively receiving the outer coil sides and for guiding them into core slots, said means arresting movement of the outer coil side in order that the coil will be stretched somewhat during the indexing of the armature core; means at that location for successively inserting the outer coil sides into the core slots; means for indexing the armature for the purpose of presenting successive core slots in operative relation to the means for inserting; centering means adapted to be operatively associated with each end of the outer coil side; and means for moving said centering means for engagement with one or the other of the end portions of the coil depending on its location with respect to said centering means, and for moving said centering means effectively in a direction longitudinally of and away from the core in order to shift the outer coil side, to be inserted, longitudinally with respect to the core for the purpose of equalizing the extent to which the coil end portions extend beyond the core ends.

2,281,918
PIPE CLEANING TOOL
Thomas D. Constant and Carson B. Boulton, Oklahoma City, Okla., assignors to Pipe Cleaning Company, Inc., Oklahoma City, Okla., a corporation of Oklahoma
Application March 25, 1939, Serial No. 264,086
2 Claims. (Cl. 15—104.06)

2. A piston-like or "pusher" body section for a pipe cleaning tool comprising: a substantially cylindrical body member; a substantially flat flexible sealing disc of larger diameter than said cylindrical body member mounted concentrically on the rear end thereof; and a plurality of resilient circumferentially spaced longitudinally and radially outward extending sealing disc supporting members each having its forward end rigidly secured to the cylindrical body section, and each having its free rear end bent radially inward to lie in a plane parallel to the forward side surface of said sealing disc and immediately forward thereof, the free ends of said members being adapted to flex radially; and independent means for limiting the radial

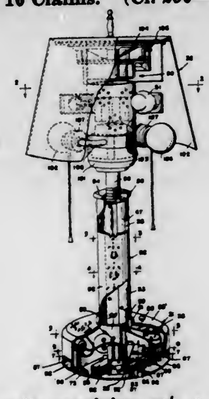


outward movement of the free end of each of said sealing disc supporting members.

2,281,919
CRACKING OIL USING SYNTHETIC CATALYTIC COMPOSITIONS
Gerald C. Connolly, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 6, 1938, Serial No. 244,180
6 Claims. (Cl. 196—52)

1. A process for cracking hydrocarbon oil to form lower boiling hydrocarbons suitable for motor fuel which comprises contacting said oil at cracking temperature with a catalyst comprising a composite gel of silica and alumina containing a small amount but not more than 1% of an oxide of an element of group II taken from the class consisting of beryllium, magnesium, and cadmium and maintaining said oil in contact with said catalyst for a period sufficient to obtain the desired cracking thereof.

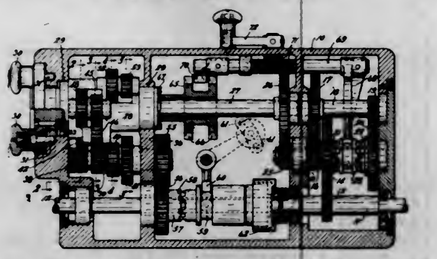
2,281,920
COMBINED LAMP AND RADIO RECEIVING SET
Daniel J. Crowley, Grosse Pointe, Mich.
Original application December 4, 1936, Serial No. 114,268. Divided and this application June 3, 1939, Serial No. 277,267
10 Claims. (Cl. 250—14)



1. In a radio receiving set, a base unit com-

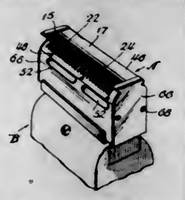
posed of upper and lower sections spaced from each other to provide a circumferentially extending slot therebetween, a radio receiving circuit including a variable condenser having a rotatably adjustable part located in the base unit, a ring rotatably supported between the sections and having a laterally extending annular portion projecting through the circumferentially extending slot between the sections of the base unit, and means operatively connecting the ring to the adjustable part of the condenser.

2,281,921
TUMBLE CHANGE GEAR MECHANISM
Frank W. Curtis, Springfield, Mass., assignor to Van Norman Machine Tool Company, Springfield, Mass., a corporation of Massachusetts
Application February 7, 1941, Serial No. 377,773
6 Claims. (Cl. 74—353)



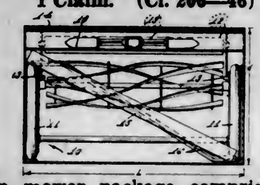
1. A change speed drive mechanism comprising a driving shaft, a driven shaft parallel thereto, a plurality of non-meshing gear pairs arranged in axially spaced planes transverse to the shafts, one gear of each pair being fixed to the driving shaft and the other to the driven shaft, a cage mounted around the driving shaft for movement into a plurality of angular positions, and a plurality of gears arranged in the cage in spaced planes, a plurality of gears in certain of said planes meshing with a single gear on the driving shaft at least one of said gears meshing with a gear on the driven shaft, and a plurality of angularly separated gears in other planes meshable in different angular positions of the cage with a single gear on the driven shaft at least one of said gears meshing also with a gear on the driving shaft, each gear which meshes with a gear on the driving shaft but not directly with a gear on the driven shaft being coupled to drive a gear in another plane which does not mesh with a gear on the driving shaft but meshes with a gear on the driven shaft.

2,281,922
SHAVING DEVICE
Godfrey Dalkowitz, Brooklyn, N. Y., assignor to American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia
Application June 22, 1937, Serial No. 149,569
3 Claims. (Cl. 30—43.5)



1. A shaving device comprising a casing having a cylindrical bore, a substantially flat surface adapted to contact with the surface to be shaved, associated with said casing, said surface being interrupted by a plurality of parallel slots closed at one end, cutting edges formed on the closed ends of said slots and a cutting member mounted for rotation within said cylindrical bore and having cutting edges adapted to coact with the cutting edges of said slots for effecting a cutting action on hairs entering said slots.

2,281,923
LAWN MOWER PACKAGE
Walter C. Davis, Richmond, Ind., assignor to G. W. Davis Corporation, Richmond, Ind., a corporation of Indiana
Application April 29, 1940, Serial No. 332,222
1 Claim. (Cl. 206—46)



A lawn mower package comprising, an assembled lawn mower main body, a container closely enclosing said main body, a one-piece handle-shank completely enclosed in said container, handle-shank extension irons also enclosed in said container, and a handle-shank cross bar also enclosed in said container; the extension irons being attachable to the handle shank and to the main body of the mower; the handle shank having a length no greater than an interior diagonal dimension of the container and the extension irons, when connected and attached to the main body of the mower, having a substantially standard effective length adequate for proper manual manipulation of the mower.

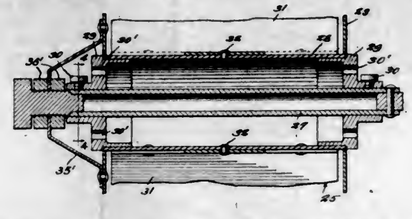
2,281,924
EXECUTING REACTIONS WITH THE AID OF FUGITIVE CATALYSTS
Martin de Simó, Piedmont, and Frank M. McMillan, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application January 15, 1940, Serial No. 313,937
6 Claims. (Cl. 260—676)

1. In a process for isomerizing butane in the vapor phase with the aid of a supported aluminum chloride catalyst, the step of continuously passing vapors of normal butane in contact with the catalyst and immediately thereafter under substantially the same conditions with an adsorptive alumina, whereby aluminum chloride vapors are substantially adsorbed from the reaction mixture.

2,281,925
DRAFT REGULATOR FOR CHIMNEYS
Roger J. Dever and Patrick J. Dever, Freeland, Pa.
Application May 14, 1940, Serial No. 335,178
2 Claims. (Cl. 230—211)

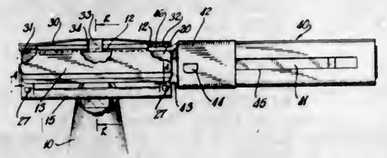
1. In a rotary blower, comprising a hollow motor shaft, a tubular shaft encasing the hollow motor shaft, end members secured within the ends of the tubular shaft and being secured to the hollow motor shaft, said end members having openings establishing communication with

the space between the shafts, and the atmosphere, whereby air is circulated between the



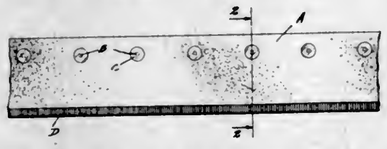
shafts, cooling the shafts, when the shafts are rotated.

2,281,926
RAZOR
William H. Ebelhare, Nichols, Conn., assignor to Magazine Repeating Razor Company, New York, N. Y., a corporation of New Jersey
Application February 5, 1940, Serial No. 317,322
3 Claims. (Cl. 30—40)



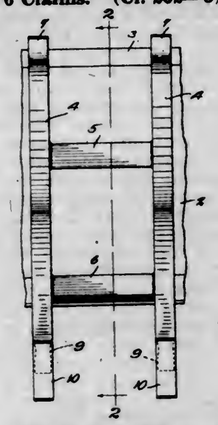
1. A razor comprising a blade platform provided with a guard and with stops on the guard so positioned that a blade edge abutting them is in shaving position, a back plate terminating in a resiliently-pressed top plate for resiliently clamping a blade between the top plate and the blade platform, and a spring mounted on the rear side of the back plate and provided with a finger projecting through the back plate and aligned to exert a thrust against the rear edge of a blade located in the blade channel between the top plate and the blade platform, said spring when unstressed being bowed rearwardly from the back plate sufficiently so that the terminal of the finger is substantially withdrawn from the blade channel.

2,281,927
SEED TAPE
Albert C. Fischer, Chicago, Ill.
Application January 6, 1937, Serial No. 119,210
2 Claims. (Cl. 47—56)



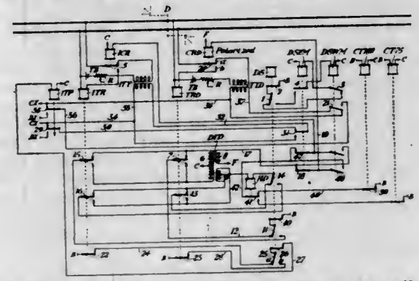
1. A seed tape adapted to be embedded in an earth bed with the seeds below the top surface of said bed a predetermined critical amount comprising a disintegrable thin planar carrier having a reference line and a plurality of apertures displaced from said line for a uniform extent, a soluble film covering each aperture and supporting a seed thereon, said carrier adapted to be disposed within said earth bed with its plane in a substantially vertical direction and its reference line bearing a predetermined relation to the top surface of the earth bed.

2,281,928
QUICK SHIFT ROOTER
Dean Fletcher, Wildomar, Calif.
Application January 9, 1940, Serial No. 313,110
6 Claims. (Cl. 262—8)



1. A rooter for attachment to the mouldboard of a scraper, the rooter being of ladder-like form and comprising horizontally spaced uprights and vertically spaced, substantially horizontal connectors joining the uprights, the connectors being of such width and thickness that they can be grasped in the human hand and serve as grips during the assembly of the rooter with a mouldboard and during the detachment of the rotor therefrom, two of the connectors being located close enough together, and being so disposed with respect to opposite ends of the rooter, as to distribute the weight of the rooter with substantial equality when it is handled by means of the connectors, and means assembled with the upper portions of the uprights for positioning the rooter on a mouldboard.

2,281,929
RAILWAY SIGNALING APPARATUS
Charles W. Failor, Forest Hills, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application August 16, 1940, Serial No. 352,936
9 Claims. (Cl. 246—33)



1. In combination with a section of railway track over which traffic may move in either direction, traffic direction selecting means having a normal and a reverse position for establishing eastbound and westbound traffic conditions respectively in said section, an eastbound code repeating relay adjacent the eastbound exit end of said section effective when said selecting means occupies its normal position for supplying cur-

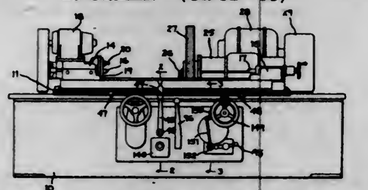
rent impulses of an eastbound track circuit code to the rails of said section, an eastbound code following track relay adjacent the eastbound entrance end of said section responsive to impulses of said track circuit code which it receives from said section, an eastbound approach impulse transmitting relay adjacent said eastbound entrance end effective during off intervals between impulses of said track circuit code for supplying current impulses of an eastbound approach code to the rails of said section, an eastbound approach impulse receiving relay at said eastbound exit end responsive to the impulses of said approach code which it receives from said section, and circuit means effective when said direction selecting means is reversed to establish westbound traffic conditions in said section for causing said eastbound impulse transmitting relay to function as the westbound code repeating relay by supplying current impulses of a westbound track circuit code at the westbound exit end of said section to thereby cause said eastbound impulse receiving relay to function as the westbound track relay by responding to impulses of said westbound track circuit code, said circuit means being also effective under said westbound traffic conditions for causing said eastbound code repeating relay to function as the westbound approach code transmitting relay by supplying current impulses of a westbound approach code to the rails of said section to thereby cause operation of said eastbound track relay as a westbound approach code receiving relay.

2,281,930

CYLINDRICAL GRINDING MACHINE

Carl G. Flygare and Stewart S. Mader, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application March 4, 1941, Serial No. 381,710
10 Claims. (Cl. 51—95)



1. In a grinding machine having a base, a longitudinally reciprocable work supporting table, means including a reversing lever to reciprocate said table, a rotatable grinding wheel, a transversely movable wheel slide therefor, a wheel feeding mechanism including a continuously rotated power driven shaft to move said slide transversely, a clutch biased to an engaged position which is interposed between said shaft and wheel slide, means to hold said clutch disengaged during the longitudinal traversing movement of the table, and means actuated by said reversing lever during table reversal to release said clutch holding means to facilitate an infeeding movement of the grinding wheel.

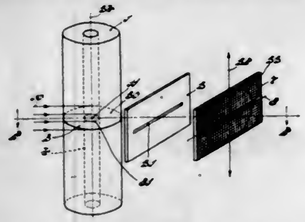
2,281,931

X-RAY APPARATUS

Gabriel Frank, Budapest, Hungary, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application June 27, 1939, Serial No. 281,467
In Germany June 27, 1938
15 Claims. (Cl. 250—61.5)

1. A method of reproducing an X-ray image of a section of a body, comprising the steps of passing X-rays through the body in several different directions from a source of X-rays located at constant distances from a given point of the section and from a ray-sensitive member, confining the X-rays passing from the body to the ray-sensitive member to a narrow beam lying in the plane of



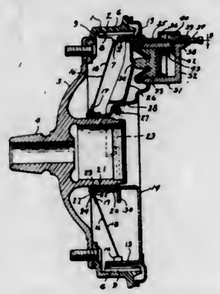
the section to produce narrow partial images on the member, enlarging the partial pictures in a direction perpendicular to the plane of the section, and superposing the enlarging partial pictures with mutual angular displacements corresponding to the angles between the directions of the X-rays striking the body.

2,281,932

FRICTION COUPLING

Phelps M. Freer, Detroit, Mich.

Application August 2, 1940, Serial No. 349,885
11 Claims. (Cl. 188—152)



1. In a friction coupling, the combination of relatively rotatable elements, one of said elements comprising a member having a friction face and the other of said elements comprising a friction member movable into engagement with said friction face, actuating means for said friction member comprising a member the inner portion of which is axially movable and the outer portion of which is radially movable and operatively connected to said friction member, a lever operatively connected to the inner portion of said actuating member, fluid pressure operated means associated with said lever for moving said lever in one direction, and means carried by said fluid pressure operated means for limiting the movement of said lever in the opposite direction.

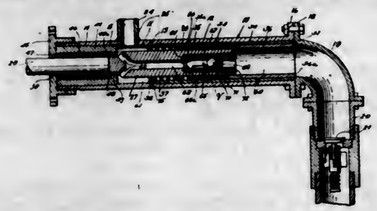
2,281,933

DIFFERENTIAL PUMP

Arthur G. Gage, Bell, Calif., assignor, by mesne assignments, to Henry T. Gage, Bell, Calif.

Application May 27, 1936, Serial No. 82,034
Renewed August 25, 1939
22 Claims. (Cl. 103—195)

1. In a fluid pump having a pump cylinder and a plunger member reciprocable therethrough: packing means for the plunger member comprising a pair of spaced packing rings in said cylinder surrounding said plunger member, the inner one of said packing rings being movable in a longitudinal direction in the pump cylinder and being exposed at its inner end to the



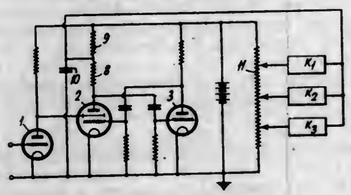
pressure fluid within said pump cylinder, means supporting the outer packing ring against movement in an outward direction in the pump cylinder, said outer packing ring fitting the plunger member with greater clearance than does the inner packing ring, and packing in said cylinder surrounding the plunger member between said packing rings.

2,281,934

ELECTRICAL IMPULSE SEGREGATION CIRCUITS

Max Geiger, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application August 9, 1938, Serial No. 223,810
In Germany July 21, 1937
3 Claims. (Cl. 250—36)



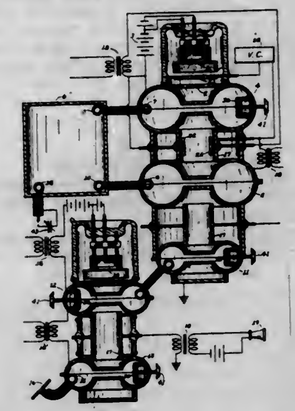
1. A multi-vibrator for producing voltage variations to be segregated comprising a first thermionic vacuum tube having anode, cathode and at least one control electrode, a second thermionic vacuum tube having anode, cathode and at least one control electrode, time constant means coupling the anode-cathode circuit of said first tube to the control grid of said second tube, time constant means coupling the anode-cathode circuit of said second tube to the control grid of said first tube, a common means for energizing the anode-cathode circuit to both of said tubes, a potentiometer connected substantially in parallel with said energizing means, a load member, means for connecting one terminal of said load member to said potentiometer, capacity means coupling the other terminal of said load means to the cathode of said first and second tubes, means for connecting said other terminal of the load means to a point in the anode-cathode circuit of one of said tubes, a third thermionic tube having anode, cathode and at least one control electrode, means for impressing said impulses to be segregated onto the control grid-cathode circuit of said third tube, and means for coupling the anode-cathode circuit of said third tube to a control electrode of one of the other tubes.

2,281,935

MODULATION SYSTEM

William W. Hansen and Russell H. Varian, Stanford University, Calif., assignors to The Board of Trustees of The Leland Stanford, Junior, University, Stanford University, Calif., a corporation of California

Original application April 14, 1938, Serial No. 201,898. Divided and this application March 27, 1940, Serial No. 326,150. In Great Britain March 17, 1939
20 Claims. (Cl. 179—171.5)



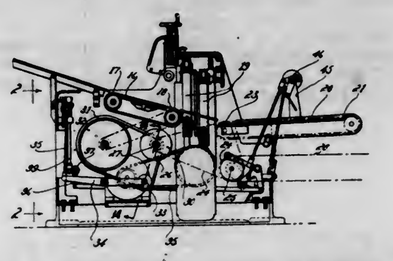
13. In an electron stream excited oscillator, means for producing an electron stream, a pair of spaced hollow resonators excited by the electron stream, and means for stabilizing said oscillator comprising an additional hollow resonator coupled to at least one of said resonators.

2,281,936

LOAF CONTROL FOR BREAD WRAPPING MACHINES

William Hoppe, Springfield, Mass., assignor to National Bread Wrapping Machine Co., Springfield, Mass., a corporation of Massachusetts

Application March 11, 1940, Serial No. 323,330
10 Claims. (Cl. 146—153)

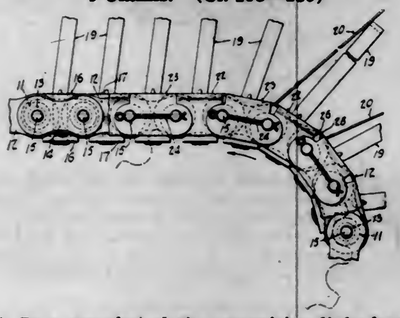


1. In a bread slicing machine, slicing knives, means for feeding loaves to the knives, means for removing sliced loaves from the knives at periodic intervals, a pusher movable to contact the rear of a mispositioned sliced loaf to forward it sufficiently to correct its misregistration, and mechanism controlled by contact of the pusher with the mispositioned loaf to impart to the loaf feeding means a temporary speed in excess of its normal speed.

2,281,937
THERAPEUTIC COMPOSITION
Samuel C. Johnson, Uniontown, Pa., assignor to M. Neal Gordon, New York, N. Y.
No Drawing. Application February 21, 1939, Serial No. 257,661
4 Claims. (Cl. 167—58)

1. A therapeutic composition comprising the ortho and para isomers of mono nitro phenol dissolved in combination in a vehicle capable of being applied locally to affected parts of the skin, said vehicle constituting approximately 33 parts and the combined ortho and para nitro phenols constituting approximately 1 part of the composition, and the ortho nitro phenol and the para nitro phenol being present in the composition in the ratio of approximately 4 parts of the former to 1 part of the latter.

2,281,938
RIGID-BACK CHAIN
Hermann Klaucke, Worcester, Mass., assignor to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin
Application March 4, 1940, Serial No. 322,055
6 Claims. (Cl. 198—189)



1. In a sprocket chain comprising links having side plates with rounded head sections and connecting pins, adjacent links providing carrying surfaces substantially tangent to the head sections of the side plate of an adjacent link, said carrying surfaces being disposed to abut and limit chain flexing.

2,281,939
TOOL
Alexander S. T. Lagaard, Minneapolis, Minn.
Original application October 27, 1937, Serial No. 171,209. Divided and this application January 15, 1940, Serial No. 313,969
3 Claims. (Cl. 30—294)



1. A tool for making a groove of uniform width in adjoining sections of wallboard, said tool comprising a holder having a body portion provided with spaced parallel surfaces disposed a distance apart substantially equal to the width of the groove, and with a guage surface therebetween, a cutting blade overlying each of said parallel surfaces and arranged with its cutting edge projecting outwardly from said guage surface, the outermost portion of said cutting edge extending a distance beyond the guage surface equal to the depth of the groove, plates overlying said blades, means extending through said plates and engaging said body for clamping said blades in position upon said parallel surfaces and a planiform guide member carried by said body and issuing from the guage surface thereof, said guide member being parallel with said parallel surfaces and equally spaced therefrom.

2,281,940
COATING COMPOSITION
Robert R. Lewis, Baldwin, N. Y., assignor to Vulcan Proofing Company, Brooklyn, N. Y., a corporation of New York
No Drawing. Application February 17, 1938, Serial No. 190,951
1 Claim. (Cl. 260—17)

A coating composition consisting substantially of 100 parts of polymerized isobutylene, 1 part of stearic acid, 10 parts of ethyl cellulose, 20 parts of paraffin wax, and a pigment.

2,281,941
WAX MODIFYING AGENT
Eugene Lieber, Linden, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 11, 1937, Serial No. 179,280
7 Claims. (Cl. 196—78)

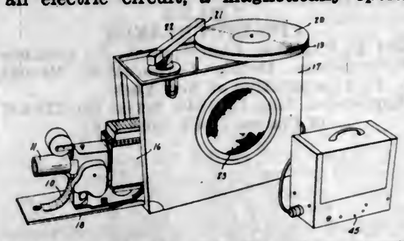
1. An improved process for producing wax modifiers which comprises contacting olefins in the liquid state derived from wax and having substantially the same number of carbon atoms per molecule as wax hydrocarbons, with an aqueous acid catalyst selected from the group consisting of sulfuric and phosphoric acids, of about 50–100% concentration, at a temperature of 95–300° F., for a reaction time of about 1–5 hours, using a volume of acid equal to about 10–25% of the volume of the liquid olefins, separating the acid and recovering from the resultant polymerization product a fraction having pour-depressing properties which is substantially nonvolatile during fire and steam distillation up to 600° F. of a kerosene solution thereof.

2,281,942
ADDITION AGENT FOR LUBRICATING OILS
Eugene Lieber, Linden, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application May 20, 1938, Serial No. 209,146
15 Claims. (Cl. 260—592)

1. An improved method for preparing wax modifiers comprising heating a phenolic ester of a fatty acid having a chain of at least 10 carbon atoms with a Friedel-Crafts catalyst at an elevated temperature of at least about 250° F. for a sufficient period suitable to effect molecular rearrangement of said ester, continuing the heating of the resulting reaction mixture at such an elevated temperature until the molecularly rearranged ester is substantially polymerized into higher molecular weight compounds, and thereafter separating from said higher molecular weight compounds an oil-soluble organic product of high boiling point.

2,281,943
SLIDING FILM PROJECTOR
John N. Loughner, Detroit, and Charles O. Gleason, Ferndale, Mich., assignors to Jam Handy Picture Service, Inc., Detroit, Mich., a corporation of Delaware
Application March 11, 1940, Serial No. 323,426
2 Claims. (Cl. 88—23)

1. In a sound-slide film projector, a lens barrel, means for supporting a film in operative relation to the lens barrel, a sound reproducing unit comprising a travelling record of the sound provided with notes in the form of signals at spaced intervals having a predetermined frequency, an amplifier tuned to the frequencies of the signals and having an input circuit receiving the signals, means for advancing the film relative to the lens barrel including an electric motor arranged in an electric circuit, a magnetically operated



relay having a load coil in the output circuit of the amplifier and having a switch in the motor circuit operated by the load coil to close the motor circuit each time a signal is received by the amplifier and to open the circuit at the end of said signal, a second switch in the motor circuit shunting the relay switch, and means operated by the motor to close the second switch and to open the latter after a predetermined interval of operation of the motor.

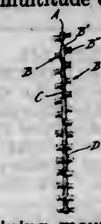
2,281,944
PROCESSING APPARATUS
Bruce De Haven Miller and Henry W. Bevarly, Louisville, Ky., assignors to The Girdler Corporation, Louisville, Ky., a corporation of Delaware
Application December 6, 1939, Serial No. 307,778
16 Claims. (Cl. 62—114)



1. A refrigerating apparatus for plastic material comprising inner and outer refrigerated drums defining therebetween an annular chamber for the material to be refrigerated, a hollow shaft in said chamber encircling said inner drum, and having a pair of ports circumferentially spaced thereon, scrapers each having an edge abutting against the wall of said shaft within a corresponding one of said ports whereby the scraper may swing radially in respect to said wall and be readily removable therefrom, one of said scrapers being outside of said shaft for scraping the material from the refrigerated surface of the outer drum and directing it radially inwardly through the corresponding port toward the inner drum, and the other of said scrapers being inside of said shaft for scraping the material from the refrigerated surface of the inner drum and directing it radially outwardly through the corresponding port toward the outer drum.

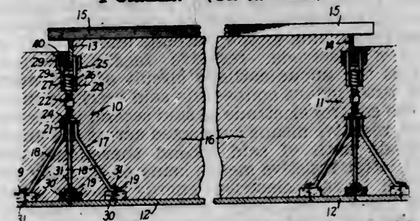
2,281,945
PAPER NAPKIN
Alma D. Milliken, Rye, N. Y.
Application July 9, 1938, Serial No. 218,347
6 Claims. (Cl. 92—68)

1. A paper napkin comprising a plurality of layers of paper having formed therein so as to project a substantial distance above the wiping surface thereof a multitude of permanent closely



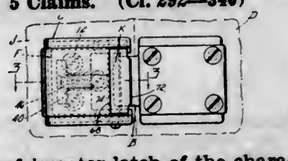
spaced self-sustaining mounds of paper fibres, the mounds being small in cross-section and having crowns of loosened paper fibres to render the napkins soft and bulky to the touch.

2,281,946
SCREED SUPPORT
Lambert J. O'Neill, Jr., Staten Island, N. Y., assignor to Poirier & McLane Corporation, a corporation of New York
Application February 25, 1939, Serial No. 258,529
4 Claims. (Cl. 72—128)



1. A screed support comprising, in combination, a base member a threaded lag mounted in said base member and vertically adjustable with relation thereto upon rotation of the lag, a threaded socket threadably mounted on the upper end of said lag and movable axially thereof upon rotation of the lag, and a yoke secured to said socket and raisable and lowerable upon rotation of said lag.

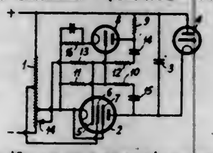
2,281,947
REFRIGERATOR LATCH
Stuart W. Parsons, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a corporation of Connecticut
Application August 1, 1940, Serial No. 349,269
5 Claims. (Cl. 292—340)



1. In a refrigerator latch of the character described a mounting secured to a door jamb, a sleeve rotatably secured in the mounting, a latch bolt keeper pivotally mounted on the sleeve and having a recess for latchably receiving a latch bolt secured to a door, resilient means for urging the keeper to latching position, a casing substantially enclosing the mounting and the keeper, a pin in the sleeve pivotally supporting the casing relative to the mounting and the keeper, means on the casing normally engaging the mounting to retain the casing in latching position, and means on the casing normally en-

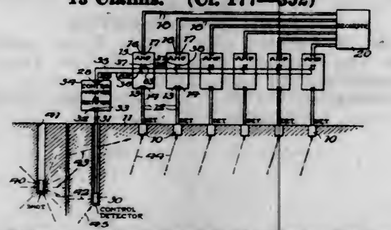
gaging the keeper to retain the keeper in latching position and to retract the keeper to unlatched position when the casing is pivotally retracted.

2,281,948
RELAXATION OSCILLATOR
Hanswerner Pieplow, Berlin, Germany, assignor to General Electric Company, Schenectady, N. Y., a corporation of New York
Application December 30, 1938, Serial No. 248,488
In Germany January 8, 1938
6 Claims. (Cl. 250—36)



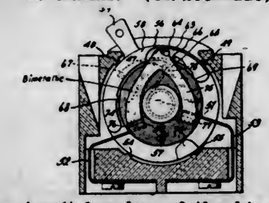
1. A sawtooth wave generator comprising electrical energy storage means, a discharge path connected substantially in parallel with said electrical energy storage means, a first multi-grid vacuum tube having anode, cathode, and at least two grid electrodes, means connecting said electrical energy storage means in the anode-cathode path of said multi-grid tube, a second thermionic tube comprising anode, cathode and at least one control electrode, resistive means connected across the anode-cathode circuit of said multi-grid tube, means connecting said resistive means to the control electrode of said second thermionic tube, resistive means connected across the anode-cathode path of said second thermionic tube, said latter resistive means being electrically connected to said electrical energy storage means, and means electrically connecting at least one of the grid electrodes of said multi-grid tube to said latter resistive means.

2,281,949
APPARATUS FOR SEISMOGRAPH PROSPECTING
Otto F. Ritzmann, Pittsburgh, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application December 14, 1938, Serial No. 245,792
13 Claims. (Cl. 177—352)



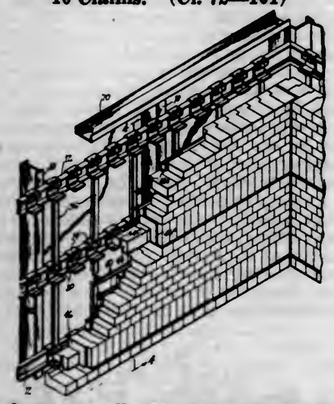
1. Seismograph prospecting apparatus comprising in combination means for detecting seismic waves in the earth and arranged to produce electrical signals corresponding to such waves, amplifying means having the input thereof connected to the detecting means, recording means for the amplified signals, electrically operable control means for the amplifying means and adapted to control a characteristic of the amplifying means in accordance with the magnitude of electrical energy applied to the control means, and means for delivering signal energy from the detecting means to said control means for operation of said control means at a time not later than the delivery of signal energy from the detecting means to the input of said amplifying means, said means for delivering signal energy to said control means comprising a detecting means nearer the source of seismic waves than the remaining detecting means, means for rectifying signals from said detecting means, and means for applying the rectified signal energy to the amplifier control means.

2,281,950
CIRCUIT BREAKER
Albert B. Rypinski, Laurelton, N. Y., assignor to Metropolitan Device Corporation, Brooklyn, N. Y., a corporation of New York
Application May 16, 1940, Serial No. 335,487
16 Claims. (Cl. 200—116)



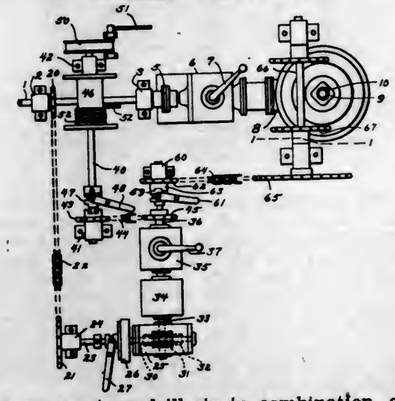
1. In a circuit breaker of the kind described, the combination comprising a case, a manually operative element within the case, a switch element within the case, said elements being movable between open and closed-circuit positions and independently movable from closed-circuit to open-circuit position, a spring element acting on said manually operative and switch elements arranged to effect movement thereof independently toward open-circuit position, said spring element including means for retaining the manually operative element in closed-circuit position, current-releasable latching means for retaining the switch element with the handle in closed-circuit position, and means operative on movement of the switch element to open-circuit position for effecting release of the manually operative element.

2,281,951
FURNACE WALL
Karl Schroeder, Elmhurst, N. Y., assignor to American Arch Company, New York, N. Y., a corporation of Delaware
Application September 20, 1938, Serial No. 230,761
10 Claims. (Cl. 72—101)



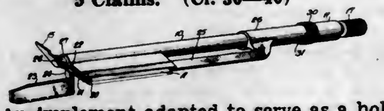
1. A furnace wall comprising horizontally extending vertically spaced supporting members, a series of support castings detachably secured to said horizontal members, a series of vertically extending retaining members detachably carried by and extending between vertically spaced pairs of said support castings, courses of support tile engaging said support castings and carried thereby, and a series of courses of supported tile carried by each course of said supporting tile, at least certain of said courses of supported tile being grooved adjacent to their outer faces and horizontal runners detachably engaging adjacent vertical retaining members and having portions seated in said grooves to retain the supported tile against displacement laterally of the wall.

2,281,952
WELL DRILLING DEVICE
Keating Ransone and Robert Eichenberg, Houston, Tex., assignors to Independent Consulting Company, Houston, Tex., a corporation of Texas
Application January 25, 1937, Serial No. 122,195
3 Claims. (Cl. 255—22)



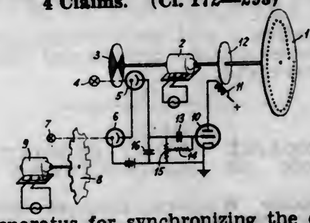
1. In a rotary drill rig in combination, a rotary table, means for driving said table, drilling means operatively connected to said table, feed means for said drilling means, said feed means being operatively connected to said driving means, whereby the rotary table and the feed means are synchronously driven, said drilling means comprising a tubular kelly rotatably connected to said feed means, a drill stem passing through said kelly, and means for effecting a driving connection between said kelly and the drill stem.

2,281,953
BLADE STROPPING DEVICE
Willard Reid, New York, N. Y., assignor to Magazine Repeating Razor Company, New York, N. Y., a corporation of New Jersey
Application March 25, 1941, Serial No. 385,041
5 Claims. (Cl. 30—40)



1. An implement adapted to serve as a holder for stropping a razor blade and injecting the blade into the shaving head of a razor, comprising a hollow shank, a blade clamp extending laterally from the shank, means for closing one end of the clamp and for ejecting a blade therefrom comprising a plunger slidably mounted on the shank and extending into the clamp, and means for opening and closing the other end of the clamp comprising a shaft rotatably mounted in the shank and carrying a finger laterally extending therefrom in a plane adjacent the last-mentioned end.

2,281,954
DEVICE FOR SYNCHRONIZING THE SPEED OF ROTATION OF ROTATING BODIES
Herre Rinia, Eindhoven, Netherlands, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application September 26, 1939, Serial No. 296,623
In the Netherlands September 27, 1938
4 Claims. (Cl. 172—293)

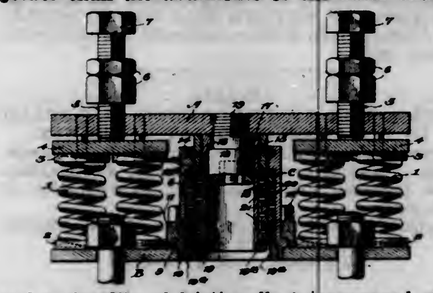


1. Apparatus for synchronizing the operation of a rotating body with that of a rotating standard comprising light interrupting means driven by said rotating body, means for photoelectrically developing a recurrent signal in response to the action of said light interrupting means, a rotating standard reference device, means for photoelectrically developing recurrent signals indicative of the position of said standard reference device, the photoelectric portions of said latter means and said means driven by said rotating body being serially connected whereby current flows through the serial connection only when both of said photoelectric means are energized, impedance means connected substantially in parallel with said serially connected photo-electric means, a phase changing circuit comprising condenser means and resistance means, said condenser means and said resistance means being connected substantially in parallel each with the other, electric switching means, said phase changing circuit being connected serially with said impedance means and said switching means, means for impressing the signal in the serially connected photoelectric means on to said phase changing means, a braking apparatus, and means for energizing said braking apparatus in accordance with the occurrence of the signal developed in said photo-electric means and impressed at least partially onto said switching means.

2,281,955
SHOCKPROOF ISOLATOR
Siegfried Rosenzweig, New York, N. Y.
Application April 8, 1941, Serial No. 387,483
7 Claims. (Cl. 248—20)

1. A machinery vibration isolator including, in combination, a bottom plate and a machinery supporting top plate, spring isolators having a predetermined mechanical range confined between the top and bottom plates for yieldingly supporting the machinery on said top plate under normal operating conditions, and a device connecting said plates for checking excessive applied forces tending to compress or extend the springs beyond said predetermined mechanical range, said device comprising an outer casing carried by the bottom plate and having internal ring spring abutments, and an inner cylindrical casing secured to the top plate and having upper and

lower ring spring abutments spaced closer together than the abutments of the outer casing,



and a plurality of frictionally interengaged ring spring devices confined between said abutments of the inner casing.

2,281,956

HORMONE-LIKE ACTING PRODUCT AND PROCESS OF MANUFACTURING THE SAME

Walter Salzer, Wuppertal-Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application June 20, 1940, Serial No. 341,437. In Germany June 5, 1939

19 Claims. (Cl. 260—613)

1. A compound selected from the group consisting of 1-methyl-2-(hydroxyphenyl)-bz-hydroxy-indenes and 1-methyl-2-(hydroxyphenyl)-bz-hydroxy-3,4-dihydronaphthalenes.

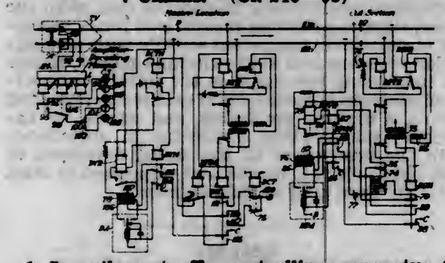
2,281,957

RAILWAY TRAFFIC CONTROLLING APPARATUS

Charles B. Shields, Petersburg, Va., assignor to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application March 19, 1941, Serial No. 384,105

7 Claims. (Cl. 246—63)



1. In railway traffic controlling apparatus for use with train carried cab signal equipment responsive to coded alternating current flowing in the rails, the combination comprising, a block the rails of which are formed into a plurality of subsections, trackway apparatus for said block controlled by traffic conditions in advance of said block, said trackway apparatus including a track circuit for each of said subsections and each of which track circuits is supplied with coded direct current, said direct current coded at a first or a second code rate according to a first or a second traffic condition in advance of said block, approach control means for each subsection including a source of alternating current and responsive to a train entering the subsection for supplying to the rails of that subsection alternating current coded at the same code rate as the direct current then supplied to the associated track circuit, and means for a selected one of said subsections controlled by the approach control means of that subsection under a preselected condition of the trackway apparatus to cause the alternating current supplied to the rails of that subsection to be of a code rate different from the code rate of the direct current just prior to the train entering that subsection.

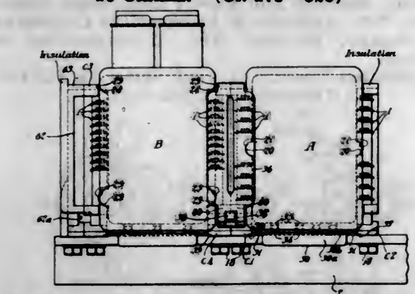
2,281,958

MOUNTING MEANS FOR RELAYS

Clarence S. Snavely, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application August 24, 1939, Serial No. 291,721

16 Claims. (Cl. 173—328)



3. The combination with electrical devices to which external circuit connections are established by means of plug-in connectors, and which are adapted to be at times replaced by similar devices having the same operating characteristics, of means on each device selected in accordance with its operating characteristics and adapted to register with other means associated with the connectors when said device is plugged in, said means being different for devices having different operating characteristics.

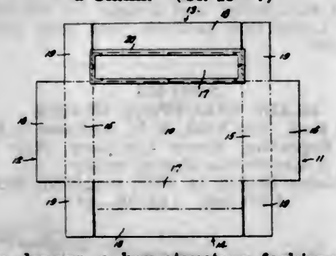
2,281,959

DRAWER CONSTRUCTION

Sol Stone, Brooklyn, N. Y.

Original application August 28, 1940, Serial No. 354,475. Divided and this application February 19, 1941, Serial No. 379,554

1 Claim. (Cl. 45—7)



In a drawer, a box structure fashioned from a sheet of flexible light-weight material which is bent to define a bottom wall, marginal front, rear and side walls hingedly connected to the bottom wall, said marginal walls each including inner and outer plies hingedly connected together at their upper edges, a wall extension hingedly connected to a ply of said marginal walls at each corner of the box structure and extending between the inner and outer plies of the adjacent marginal wall, and said inner plies of the marginal side walls impinging at their ends against the inner ply of the rear wall and the inner ply of the front wall impinging at its ends against the inner plies of the opposite side walls, means securing the inner and outer plies of said front wall together for securing said wall extensions between the inner and outer plies of the marginal walls and for retaining said plies in impinging relation and the drawer in set up condition, and a rigid frame secured to the outer face of the outer ply of the front wall and protruding beyond the edges thereof to define a marginal flange extension for limiting the inward closing movement of the drawer.

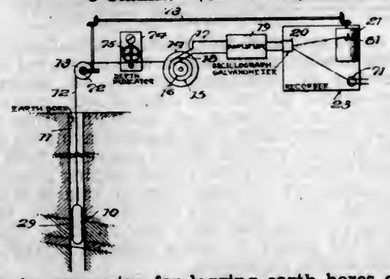
2,281,960

APPARATUS FOR LOGGING BORES

Victor V. Vacquier, Oakmont, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

Application July 26, 1939, Serial No. 286,671

3 Claims. (Cl. 73—51)



1. An apparatus for logging earth bores comprising a supporting member adapted to be lowered in an earth bore, means for suspending the supporting member in the bore, a stylus resiliently supported on the supporting member for pressure against the bore wall, means for recording vibrations of the stylus as the stylus moves over the bore wall and depth-measuring means for measuring and exhibiting the depth of the stylus at various positions in the bore.

2,281,961

PRODUCTION OF SUPERPOLYAMIDES

Hanns Ufer and August Weickmann, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to E. I. du Pont de Nemours and Company, Wilmington, Del.

No Drawing. Application December 13, 1939, Serial No. 309,030. In Germany December 6, 1938

5 Claims. (Cl. 260—78)

1. In the production of superpolyamides the step which comprises heating at 100° to 300° C. a superpolyamide-forming composition in the presence of a small amount not exceeding 3 per cent by weight of a member selected from the group consisting of polyhydric alcohols and their esters and ethers containing at least one free hydroxyl group, said superpolyamide-forming composition containing an equal number of amino and acid groups and being selected from the class consisting of monoaminomonocarboxylic acids and mixtures of diamine and dicarboxylic acid in equimolecular proportions.

2,281,962

DUST SAMPLER

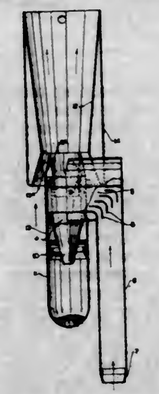
Hermannus van Tongeren, Heemstede, Netherlands

Application November 26, 1940, Serial No. 367,294

In Germany December 21, 1939

4 Claims. (Cl. 73—21)

1. A dust sampler unit adapted to be manually positioned over a selected zone of the cross sectional area of a chimney through which dust laden gas is flowing, comprising; a cyclone having a tangential dust laden gas inlet, a cleaned gas outlet and a dust discharge opening; a closed dust receptacle arranged substantially coaxially with the cyclone and communicating with the dust discharge opening thereof, a shunt pipe communicating at its upper end with said gas inlet of the cyclone and having its body disposed in parallel relation with the axis of the cyclone,



said shunt pipe having its lower inlet end disposed below the bottom of the dust receptacle to receive dust laden gas before turbulence therein is caused by the presence of the unit, nozzle means at the lower end of the shunt pipe for maintaining gas velocity in the shunt equal to the gas velocity of the gas stream enveloping the unit, a Venturi tube disposed substantially coaxially with the cyclone, the cleaned gas outlet of the cyclone opening into the Venturi tube substantially in the throat thereof, and means for portably supporting said dust sampler.

2,281,963

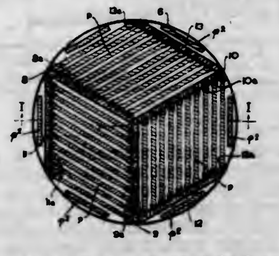
SOUND DEADENER

Hermannus van Tongeren, Heemstede, Netherlands

Application April 15, 1941, Serial No. 388,709

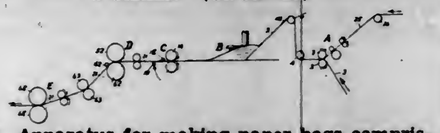
In the Netherlands May 8, 1940

4 Claims. (Cl. 181—42)



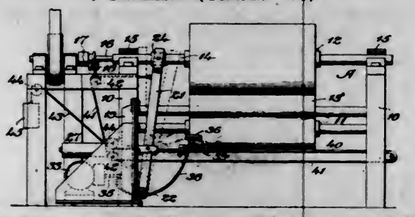
1. A sound-deadener adapted to be accommodated in a gas conduit of circular cross-section and comprising a plurality of relatively narrowly spaced flat plates of sound-absorbing material, wherein the plates are arranged in three groups, each of which occupies, in cross-sectional view, a rhomb formed by two adjacent triangles of the inscribed regular hexagon, and wherein the plates of each group are parallel to one side of the rhomb involved.

2,281,964
METHOD AND APPARATUS FOR MAKING PAPER BAGS
Howard A. Wolf, Philadelphia, Pa., assignor to Louis Wolf, Elias Wolf, Howard A. Wolf, and Walter L. Wolf, copartners trading and doing business as Wolf Brothers, Philadelphia, Pa.
Application May 1, 1941, Serial No. 391,251
2 Claims. (Cl. 93—18)



1. Apparatus for making paper bags comprising, in combination, means for continuously advancing a web of paper, means for continuously advancing a web of reinforcing material, means for severing lengths of reinforcing material from said web thereof and applying said lengths to said advancing web of paper at predetermined intervals, means for forming said advancing web of paper into a tube, means for periodically severing bag lengths having closure flaps at their ends from the advancing tube when formed, means for continuously advancing the bag lengths when severed, means operable in the continuous advance of the bag lengths for folding down and securing the closure flap at the leading end of the bag lengths and a pair of rolls adapted to receive the bag lengths in their continued advance, one of the rolls of said pair carrying means for first forming a finger opening in the body of the bag length adjacent to the trailing end, means for then creasing along the line of juncture of the closure flap at the trailing end and the body and means for finally slitting the said closure flap to form a locking tongue.

2,281,965
RECEIVING ROLL ADJUSTING MEANS FOR WEB WINDING MACHINES
William H. Wylie, Oklahoma City, Okla., assignor to Vac-Control Manufacturing Company, Inc., Oklahoma City, Okla., a corporation of Oklahoma
Application February 28, 1941, Serial No. 381,141
7 Claims. (Cl. 242—76)



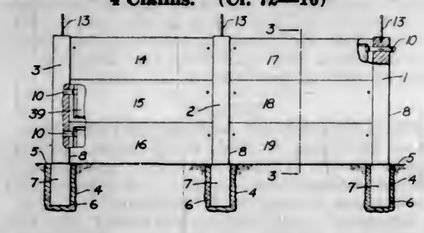
6. In a web winding machine, a rotatable, longitudinally adjustable web receiving roll to have wound thereon from a source of supply a web which may deviate laterally and lateral deviation of which progressively increases from its source of supply toward said receiving roll, and means for adjusting said receiving roll longitudinally to compensate for lateral deviation of the web, said means including a control element spaced from the receiving roll toward the source of supply of the web, said means also including means whereby said control element is shifted laterally in response to lateral deviation of the web and also including means whereby the receiving roll is adjusted longitudinally in response to lateral shifting of said control element and in amount slightly greater than the amount of lateral shifting of said control element to compensate for the greater amount of lateral deviation of the web at the location of the receiving roll than at the location of the control element.

2,281,966
SAFETY DEVICE FOR SCAFFOLDS
Louis Zanger, Brooklyn, N. Y.
Application February 17, 1941, Serial No. 379,342
4 Claims. (Cl. 304—32)



1. As an article of manufacture, a scaffold rope holding bracket comprising a wall supported base containing an elongated groove, an inturned flange around an end and sides of said groove in the base, an elongated leg extending from the base at substantially right angles having an enlarged circular portion at the extremity with an opening therein to form a rope holding ring and a bolt angularly threaded through said base and extending into the said groove in the base adapted to cooperate with the inturned flange around the groove to lock a suitable supporting member within the groove.

2,281,967
WALL CONSTRUCTION
Joseph R. Zasvorka, Los Angeles, Calif.
Application September 1, 1939, Serial No. 293,069
4 Claims. (Cl. 72—16)

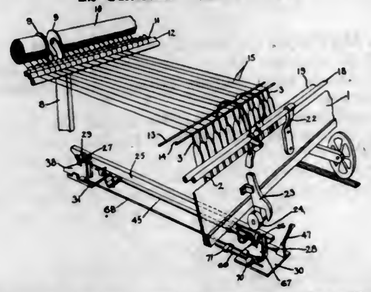


1. In a concrete wall construction, a plurality of spaced apart posts having enlarged bases, the tops of the bases along the sides of the posts having ledges, a plurality of extending bars embedded in each of the posts, identical panel sets paired together to form fence rails, each panel having complementary parts forming a top groove and bottom ribs to rest upon said post ledges, bolts through the ends of the panel sets and through said bars to hold the panels of each set together and the panel sets to the posts.

2,281,968
SULPHUR DYESTUFFS
Werner Zerweck and Karl Schütz, Frankfort-on-the-Main-Fechenheim, and Wilhelm Hechtenberg, Frankfort-on-the-Main, Germany, assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application October 24, 1940, Serial No. 362,600. In Germany October 7, 1939
2 Claims. (Cl. 260—129)

1. Sulphur dyestuffs obtained by acting with a sulphurizing agent on a 4,5,9,10-dibenzo-3,8-diazapyrene compound, which dyestuffs dye the vegetable fibers from the sodium sulphide bath mostly brownish to olive shades of valuable fastness properties.

2,281,969
MULE SPINNING MACHINE
Robert A. Gard, Charlton City, Mass.
Application January 27, 1941, Serial No. 376,156
12 Claims. (Cl. 57—46)



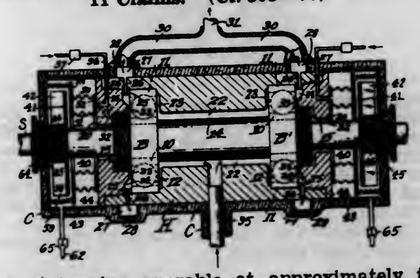
1. In a device of the character described the combination of a builder rail having its guide faces supported at given inclinations, means for lifting one end of said guide rail relative to a given point along said guide rail to alter said inclinations and means adjacent the opposite end of said guide rail for lowering said given point an amount sufficient to compensate for the amount said given point is lifted when said first end of said guide rail is lifted.

2,281,970
INFOLDING OF VEST POCKET WELTS AND THE LIKE
Alfred G. Gilbert, South Acton, Mass., assignor to Reece Folding Machine Company, East Cambridge, Mass., a corporation of Maine
Application September 13, 1939, Serial No. 294,636
1 Claim. (Cl. 223—38)



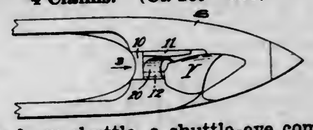
In the art of manufacturing vests or like woolen garments the method of quantity preparation of sets of differing welts for sewing to vests or other garments, comprising the handling, folding and fixing of the woolen welts of each set thereof as follows: spreading out the cut fabric blanks for one set of welts in general alinement upon a smooth folding bed, defining simultaneously the folds at the ends of all such blanks of the one set, infolding simultaneously all such ends as so defined and then holding them so, and withdrawing the defining means to leave the blank infolds held directly in contact upon the blank bodies resting on the bed beneath the infolding means; then applying heavy squeezing pressure to crease such folds while remaining unoccupied between the bed and infolding means, while maintaining heated both the supporting bed and infolders, applying steam to such folds in a short discharge to moisten the fabric and permeate both the body and infold adjacent to the folded edges while in direct face contact under squeezing pressure, thereby to cause face adherence between fabric body and folds and to fix the creases until later sewed, without need of adhesive; and removing and collecting the set of folded and fixed welts and clipping the set together for its garment preparatory to stitching the welts to the garment.

2,281,971
FLUID COOLED BEARING
Robert H. Goddard, Roswell, N. Mex.
Application June 14, 1940, Serial No. 340,420
11 Claims. (Cl. 308—77)



1. A bearing operable at approximately the temperature of liquid oxygen and comprising a housing, rolling elements mounted therein, means to supply liquid oxygen to said bearing, means to circulate said liquid oxygen outwardly and radially around and between and in direct contact with said rolling elements by the centrifugal action of the moving parts of said bearing coacting with parts of said housing positioned at each side of said moving parts and spaced axially therefrom to provide restricted annular clearance spaces adjacent the inner and movable parts and outwardly increased clearance adjacent the outer and fixed parts of said bearing, and means to supply the liquid oxygen closely adjacent the rotated member and to discharge the liquid oxygen outside of said increased clearance space.

2,281,972
SELF-THREADING SHUTTLE EYE
Harold E. Goff, Millbury, Mass., assignor to Watson-Williams Manufacturing Company, Millbury, Mass., a corporation of Massachusetts
Application March 25, 1941, Serial No. 385,122
4 Claims. (Cl. 139—223)

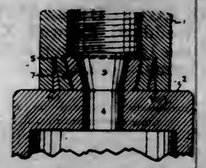


1. In a loom shuttle, a shuttle-eye comprising a thread block having a longitudinal thread passage therethrough having a side wall, and a thread-guiding and retaining member mounted on said block and having a portion extending into said thread passage and having another portion embracing said side wall of said thread passage and extending downward along the outer face of said wall and securely held in clamped relation thereto.

2,281,973
SWIVEL CONNECTION
Patrick J. Healy, Detroit, Mich.
Application December 14, 1940, Serial No. 370,166
2 Claims. (Cl. 285—97.7)

1. The combination with a body and a projection rigidly carried by said body and having a relatively reduced inner portion, of a coupling

element having an opening freely receiving said projection and having a restricted annular groove substantially coaxial with the projection and extended into the inner face of said element, and producing an annular locking portion on said element, and an annular wedge member inserted in said groove and conforming substantially to its outer wall and effecting deflection of the an-



nular locking portion toward the axis of said projection, the outer faces of the groove and wedge member having interengaged serrations resisting escape of the wedge member from the groove, and the wedge member and coupling element being rotatable in unison relative to said projection, whereby the coupling element is swivelly secured on the projection by the locking portion of said element.

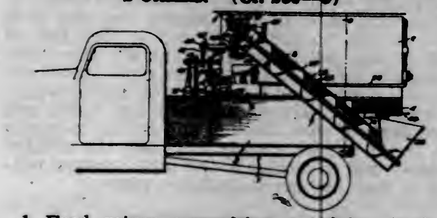
2,281,974

MOLASSES MIXING TANK

Joseph Stanley Herr, Nottingham, Pa.

Application May 1, 1940, Serial No. 332,826

2 Claims. (Cl. 259—9)



1. Feed mixer comprising a mixing tank, a mixing rotor arranged longitudinally in the lower part of said tank, a feed inlet opening at one side of said tank above the path of rotation of said rotor, a conveyor hinged at one end exteriorly to the side of said mixing tank having a discharge opening adapted to register with the feed inlet opening of said tank when said conveyor is in downwardly inclined position, said conveyor including a rotor shaft having a bevel gear at a distance from its hinge connection with said tank, a driving gear with which said bevel gear meshes when said conveyor is in downwardly inclined position and with respect to which it goes out of mesh when the conveyor is raised, stopping the operation of the conveyor.

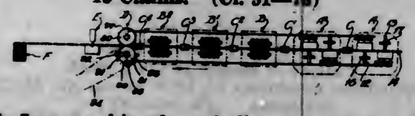
2,281,975

BLADE GRINDING MACHINE

Hermann Hill, Bridgeport, Conn., assignor to Magazine Repeating Razor Company, New York, N. Y., a corporation of New Jersey

Application June 3, 1941, Serial No. 396,331

15 Claims. (Cl. 51—78)



1. In a machine for grinding one margin of a strip of blade stock to a cutting edge, a grinding wheel, means for guiding and supporting the strip and opposing the pressure of the grinding wheel, said means comprising a series of rolls on the peripheries of which the other margin of the strip travels, a thrust block along and against one face of which the strip travels in flatwise contact therewith, the edge to be ground extending beyond the other face of the thrust block, the peripheries of the rolls being provided with radial flanges against which the strip bears in response to pressure exerted by the grinding wheel against the margin being ground.

2,281,976

METHOD OF SPLICING RUBBER

Merrill E. Hansen, Akron, Ohio, assignor to American Anode Inc., Akron, Ohio, a corporation of Delaware

Application February 1, 1940, Serial No. 316,774

4 Claims. (Cl. 154—42)



1. The method of splicing rubber sheets which comprises placing the sheets to be spliced in a superposed relationship, so cutting the superposed sheets along a line to form a lightly adherent joint along the contiguous corners of the cut edges, coating the edges of the two sheets exposed by the cutting with a thin layer of an adhesive composition, opening the sheets out, and applying pressure to the sheets in the region adjacent the splice.

2,281,977

PIVOTAL CONNECTION FOR SHEARS

David Howard Keiser, Jr., Wyomissing Hills, Pa.

Application October 16, 1939, Serial No. 299,638

2 Claims. (Cl. 30—248)



1. In shears having a fixed blade and a movable blade, a non-binding pivotal connection for said blades comprising a spacing boss and vertical pivot post on the fixed blade, a pivot ear for the movable blade spaced above the horizontal plane of the latter and having a relatively loose unclamped fit on said pivot post, and an operating arm for said movable blade extending laterally therefrom in the horizontal plane of said blade and acting to cant said pivot ear so as to tilt the cutting edge of said movable blade in one direction during blade closing together movements, and in a reverse direction during blade opening movements.

2,281,978

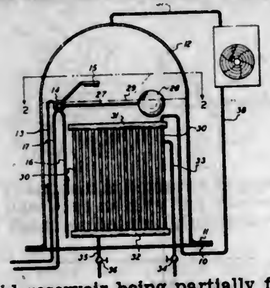
CONTINUOUS VAPOR PRESSURE APPARATUS

Martin W. Kilbe, Whittier, Calif.

Application March 26, 1940, Serial No. 326,024

4 Claims. (Cl. 73—51)

1. Apparatus for continuously ascertaining the vapor pressure of a volatile liquid which comprises: a substantially closed vessel; means for flowing a stream of said liquid through said vessel and for maintaining a body of said liquid at substantially constant level partially filling said vessel; a reservoir formed of heat conductive metal arranged to be submerged in said liquid



body, said reservoir being partially filled with a liquid of known vapor pressure, and means for indicating the momentary difference between the vapor pressures existing respectively in said vessel and said reservoir.

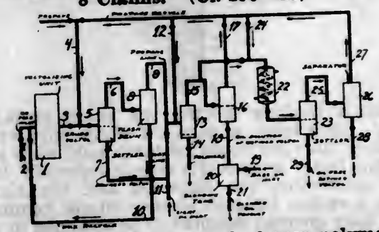
2,281,979

HYDROCARBON TREATMENT

Charles N. Kimberlin, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

Application October 21, 1939, Serial No. 300,512

8 Claims. (Cl. 196—13)



1. Process for the removal of over-polymerized constituents from polymerized oils comprising treating said polymerized oils with a mixture comprising a low boiling petroleum hydrocarbon and a light oil boiling in the lubricating oil range under conditions to precipitate said over-polymerized constituents and to retain said polymerized oil in solution, separating the precipitated constituents and recovering the polymerized oils from said solution.

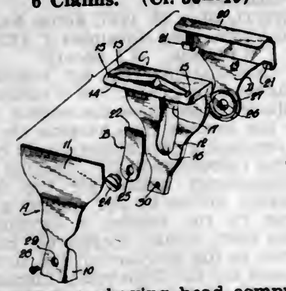
2,281,980

CONCEALED SPRING RAZOR

Leopold Kuhnl, Bridgeport, Conn., assignor to Magazine Repeating Razor Company, New York, N. Y., a corporation of New Jersey

Application May 1, 1941, Serial No. 391,242

6 Claims. (Cl. 30—40)



1. In a razor, a shaving head comprising two

members, one member including a blade platform provided with a guard and also a support for the blade platform, the blade platform and support being at an angle to each other, the second member including a back plate adjacent the support and also a blade clamping plate overlying the blade platform, the said support being provided with an aperture, a resilient cantilever secured to the said back plate and extending into said aperture with its free end bearing on the rim of the aperture and normally urging the back plate toward the support.

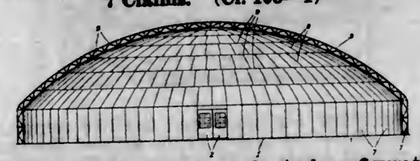
2,281,981

BUILDING STRUCTURE

Robert G. Le Tourneau, Peoria, Ill., assignor to R. G. Le Tourneau, Inc., a corporation

Application September 16, 1940, Serial No. 356,939

7 Claims. (Cl. 108—1)



1. A dome structure of spherical configuration comprising a plurality of circumferential courses of prefabricated panel sections, the side edges of each panel section being radial of the dome, inturned flanges about the edges of said panel sections, the flanges of the sections engaging corresponding flanges of adjacent sections, and means securing the panel sections together.

2,281,982

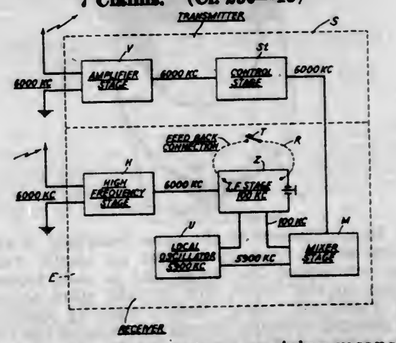
ARRANGEMENT FOR TRANSMITTING AND RECEIVING WIRELESS MESSAGES

Albrecht Leyn, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie Zehlendorf, Ostewez, Berlin, Germany, a corporation of Germany

Application October 5, 1940, Serial No. 359,852

In Germany July 5, 1939

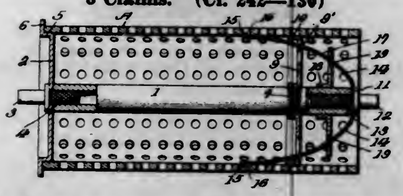
7 Claims. (Cl. 250—15)



1. In a signalling system, receiving means including an amplifier for receiving and amplifying signalling energy of a first frequency, an oscillation generator for producing wave energy of a second substantially fixed frequency, a mixing circuit and intermediate frequency stage coupled to both of the aforesaid means for beating said wave energies to produce signalling energy of a third frequency, and transmitting means including means for generating oscillations of said third frequency in said intermediate frequency stage, a detector coupled to said oscillation generator

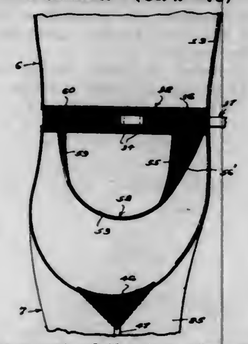
and said intermediate frequency stage for beating said generated oscilaltions of said third frequency with wave energy of said second frequency to produce wave energy of said first frequency and an amplifier and a wave energy radiator coupled to said second detector.

2,281,983
SELF-LOCKING ARBOR FOR TUBES AND SPOOLS OR THE LIKE
George B. Markle, Jr., Butler Township, Luzerne County, Pa.
Application March 7, 1941, Serial No. 382,247
8 Claims. (Cl. 242—130)



1. An arbor for spools and the like comprising a core having spaced heads secured thereon, one of said heads being provided with a flange forming a stop for the spool when placed thereon, a plurality of spring arms disposed between said heads having projections at their ends adapted to enter the perforations of a perforated spool when placed in position on the heads of said arbor for interlocking said spool to said arbor.

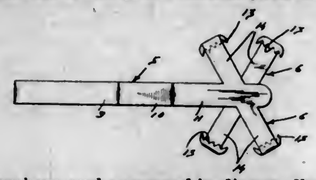
2,281,984
PLAY GARMENT
Henry Louis Martiny, New Orleans, La.
Application August 5, 1939, Serial No. 288,653
3 Claims. (Cl. 2—79)



2. In a garment of the type described, a shirt section and a trousers section, an elastic waistband connecting the upper end of said trousers section to the lower end of said shirt section, said waistband being formed with at least two belt passing openings at opposite sides of the forepart thereof and at least two belt passing openings at the back thereof, and a waist belt passing through said openings and lying along the inner and outer sides of said waistband.

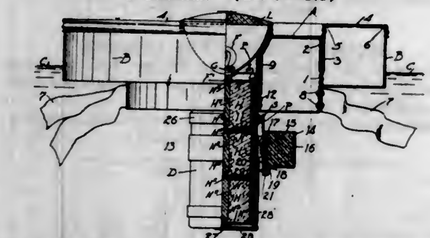
2,281,985
EGG FORK AND OPENER
Francis E. Morgan, Waco, Tex.
Application January 24, 1941, Serial No. 375,844
2 Claims. (Cl. 146—2)

1. In a hand tool of the character described, a handle including resilient members having substantially parallel relation and capable of being squeezed in the direction of each other, and substantially U-shaped resilient jaws formed on



said members and arranged in diagonally opposed relation to receive and grip an egg, each jaw terminating in angularly related serrated gripping ends.

2,281,986
MARINE SKY BEAM SIGNALING DEVICE
Benjamin A. Nolan, Stillwater, Minn.
Application October 7, 1939, Serial No. 298,476
6 Claims. (Cl. 9—8.3)

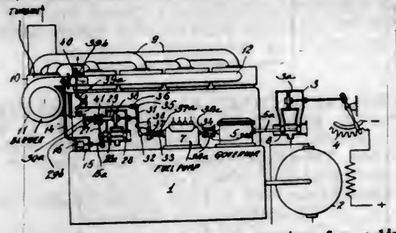


1. In a floating marine sky beam signaling device comprising a buoyant body supporting batteries, an electric signal lamp held atop said buoyant body, an electric circuit normally held open connecting the batteries and the signal lamp; a switch for said electric circuit comprising a body member adapted to be attached to the buoyant body, moisture expanding material held within said body member, a yieldable closure member yieldably positioned in said body member, a switch contact point carried upon said yieldable body closure member, said body member being formed with a hole to allow moisture to enter said body member to expand the moisture expanding material so as to press against the yieldable closure member with its switch contact point to close said electric circuit.

2,281,987
INTERNAL COMBUSTION ENGINE AND CONTROL APPARATUS
Hans Oswald, Winterthur, Switzerland, assignor to Sulzer Freres, Societe Anonyme, Winterthur, Switzerland
Application October 28, 1937, Serial No. 171,416
In Switzerland November 7, 1936
8 Claims. (Cl. 60—13)

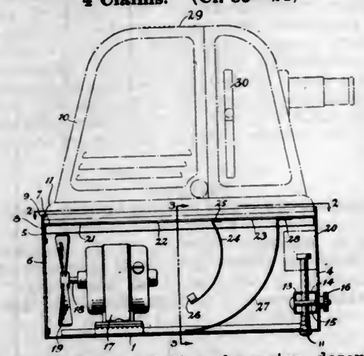
1. The combination with an internal combustion engine which comprises a turbine driven by the exhaust gases from the engine, a blower driven by the turbine for charging air into the engine, a regulating device operatively connected to the blower responsive to the charging air pressure, a fuel-supply means for the engine, a speed governor driven by the engine, a variable load driven by the engine, a servomotor for varying the load, means operatively connecting the governor to the servomotor and to the fuel-supply means for simultaneously increasing the fuel and decreasing the load as the speed of the

engine decreases and simultaneously decreasing the fuel and increasing the load as the speed of the engine increases, whereby the speed of the engine and its output are maintained constant, and means operatively connecting the



regulating device to the servomotor for adjusting the opening and closing positions of the servomotor so that for every charging air pressure there corresponds a definite load of the engine maintained constant by the servomotor.

2,281,988
VENTILATING DEVICE FOR PROJECTION APPARATUS
Harold Osterberg and David I. Critoph, Buffalo, N. Y., assignors to Spencer Lens Company, Buffalo, N. Y., a corporation of New York
Application May 21, 1940, Serial No. 336,437
4 Claims. (Cl. 88—24)



1. In a device of the character described, a ventilating member adapted to support and ventilate a projector, said member comprising a casing having an opening in one of its side walls and an opening in its top wall, a fan adapted to cause air to enter said casing through said opening in its side wall and to pass from said casing into the projector through the opening in the top wall of said casing, and a plurality of deflecting members of different lengths secured in said casing, one of said deflectors extending substantially from said top wall to the bottom of the casing and the other deflector being shorter in length so that each of said deflectors will direct a portion of the air stream into a different portion of the projector.

2,281,989
PRODUCTION OF PLASMA
Ivan A. Parfentjev, Nyack, N. Y., assignor to Lederle Laboratories, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application October 21, 1939, Serial No. 300,595
5 Claims. (Cl. 167—78)

1. The process of producing plasma which comprises mixing blood with sodium pyrophosphate as an anticoagulant, allowing the mixture to stand until the blood cells settle out, separating the supernatant plasma from the blood cells and subjecting the blood cells to centrifugal action to remove additional plasma associated with the blood cells.

2,281,990
TREATMENT OF BLOOD
Ivan A. Parfentjev, Nyack, N. Y., assignor to Lederle Laboratories, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application October 21, 1939, Serial No. 300,594
1 Claim. (Cl. 167—78)

A process of obtaining increased yields of plasma from blood which comprises mixing blood with an anticoagulant, permitting the blood cells to settle, separating the supernatant plasma from the settled blood cells and associated plasma, mixing the blood cells and associated plasma with a substantially neutral sodium chloride solution containing an anticoagulant and not more than 0.2% of gum tragacanth, allowing the mixture to stand in the cold until the blood cells settle to a compact mass and removing the diluted plasma from the settled blood cells.

2,281,991
DENTAL AMALGAM ALLOY
Paul Poetschke, Bronxville, N. Y.
No Drawing. Application April 27, 1938, Serial No. 204,564
1 Claim. (Cl. 75—173)

A dental alloy consisting of 100 parts of a mechanical mixture of two alloys, one being 80 to 95 parts of a comminuted silver alloy and the other being 20 to 5 parts of preformed hardened silver amalgam, the said 80 to 95 parts consisting of 39.61% to 68.50% silver, 4.70% to 23.34% copper, 0.80% to 8.00% zinc and the balance tin; and said 20 to 5 parts consisting of a comminuted preformed hardened silver amalgam, rich in silver and mercury.

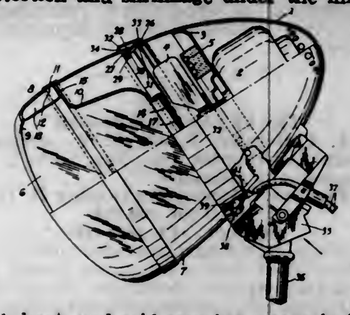
2,281,992
IMPRESSION TAKING COMPOSITION
Paul Poetschke, Bronxville, N. Y.
No Drawing. Application July 19, 1940, Serial No. 346,371
8 Claims. (Cl. 18—47)

1. A dry powder adapted to be heated with water to form an impression-taking composition, including principally agar agar sufficiently fine to dissolve readily but not to lump, and a lesser quantity of finely divided wax.

2,281,993
HAIR DRYING MACHINE
Sydney Charles Pritchard, London, England
Application August 23, 1940, Serial No. 353,972
In Great Britain September 9, 1938
10 Claims. (Cl. 34—48)

1. In a hair drying machine, a hood comprising a non-transparent casing having inlets for fresh air and an open end, an electric fan and an electric heater housed within said casing, a transparent structure having a rim fitting the open end of said casing and having an open bottom adapted to receive the head of a person therethrough, means securing said rim of said structure to the open end of said casing in overlapping relation, said casing being made of a

material resistant to the heat generated therewithin by said heater, said structure being made of a transparent thermoplastic that is susceptible to distortion and shrinkage under the influence



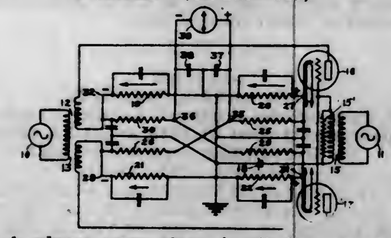
of such heat, and said securing means including means adapted to protect said rim from heat generated by said heater to prevent distortion and shrinkage of said rim under the influence of such heat.

2,281,994
IMPULSE SENDER FOR USE IN TELEPHONE OR LIKE SYSTEMS
Charles Clarke Puckette, Coventry, England, assignor to The General Electric Company Limited, London, England, a British company
Application December 2, 1939, Serial No. 307,302
In Great Britain December 17, 1938
3 Claims. (Cl. 179—90)



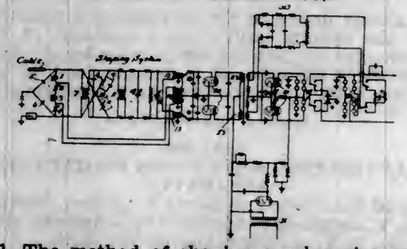
3. In an impulse sender having a casing and a shaft rotated by the finger plate of the sender, a stop pin on the shaft within the casing, a stop member within said casing engaging said pin, a screw having its head accessible to the outside of the casing, said stop member tensioned to normally engage the end of said screw and to disengage the stop member from said pin when the screw is turned.

2,281,995
PHASE COMPARING SYSTEM
Ellison S. Purington, Gloucester, Mass., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application April 27, 1939, Serial No. 270,429
8 Claims. (Cl. 172—245)



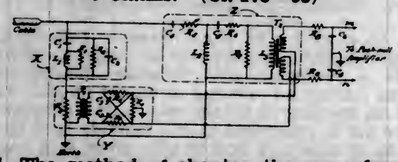
1. A phase comparing circuit for comparing the phase displacement between a pair of supplied voltages, said circuit comprising a pair of vacuum tube amplifiers actuated respectively by the supplied voltages, a pair of rectifiers connected to the output circuits of said amplifiers and arranged to be actuated respectively in accordance with the vector sum and vector difference of said supplied voltages, a work circuit responsive to the differential effect of the currents rectified by said rectifiers, and means controlling the gain of said amplifiers in accordance with the total amount of rectified current whereby the operation becomes substantially independent of the amplitude of the supplied voltages.

2,281,996
SUBMARINE CABLE AMPLIFYING SYSTEM
Gerald A. Randall, Merrick, and James E. Rice, Jr., Brooklyn, N. Y., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application June 5, 1940, Serial No. 338,990
13 Claims. (Cl. 178—63)



1. The method of shaping a submarine cable telegraph signal, which comprises separating the frequency components of the received signal waves into lower and upper ranges, shaping said frequency ranges separately without amplification, eliminating high frequency interference from the upper range frequencies, and separately impressing the frequencies of both ranges upon a common amplifier with simultaneous differentiation of the voltage ratios of said upper and lower ranges.

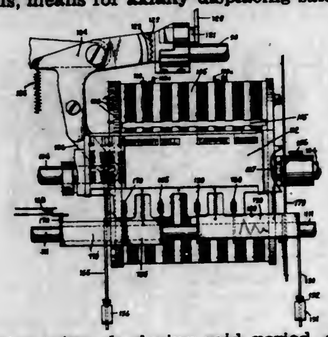
2,281,997
SUBMARINE CABLE SIGNAL SHAPING SYSTEM
Gerald A. Randall, Merrick, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application December 3, 1940, Serial No. 368,411
9 Claims. (Cl. 178—63)



1. The method of shaping the wave form of circuit impulses, which consists in producing from the arrival current a main non-oscillatory signal transient and an auxiliary oscillatory transient having its central portion coincide approximately with said main transient at the zero or reversal position and combining said transients to produce a current impulse having a wave form of steeper slope and shorter duration than the arrival current wave.

2,281,998
TIME RECORDER
Frederick Q. Rast, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application July 7, 1938, Serial No. 217,955
6 Claims. (Cl. 161—1)

1. A program device for scheduling the operations of associated mechanisms over a predetermined period of time comprising a rotatable drum containing a plurality of equally spaced slots in its lateral surface, means for rotating said drum about its axis in time sequence to bring said slots successively into predetermined positions, means for axially displacing said drum



at regular intervals during said period, detachably secured inserts in said slots and projecting therefrom, and fingers, cooperative with said mechanisms, contacting the projecting parts of said inserts at said predetermined positions for controlling the operations of said mechanisms according to schedule.

2,281,999
GARMENT FASTENER
Bertha Rieback, New York, N. Y.
Application May 20, 1940, Serial No. 336,155
5 Claims. (Cl. 24—222)



2. A garment fastener comprising a plate member provided with a slot the side walls of which are not parallel and a second slot connected with said first mentioned slot and having its longitudinal axis transverse to the axis of said first mentioned slot and an engaging member adapted to operate in both said slots and having a portion of a size greater than the width of said first slot and a portion movable in both said slots but with its free movement limited by the sidewalls of said slot.

2,282,000
LUBRICATING OIL PACKAGE
Adolph C. Rittmann, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application April 17, 1937, Serial No. 137,459
3 Claims. (Cl. 229—3.1)



1. A paper container coated on the inside with a layer of nitrocellulose bronzing lacquer containing a metallic bronze powder, adapted to contain a lubricating oil in direct contact with the lacquer layer.

2,282,001
COLOR-FORMING GELATIN COMPOUND
John Russell and Robert Eliot Stauffer, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application September 12, 1940, Serial No. 356,502. In Great Britain September 13, 1939
9 Claims. (Cl. 260—117)

2. The method of preparing a non-diffusing coupler capable of reacting with the development product of a primary aromatic amino developing agent on development of a silver halide image, which comprises reacting a carboxylic acid chloride of a coupler with gelatin, at such temperature and for such time as to form a product of the gelatin and the acid halide of the coupler capable of gelling.

2,282,002
METHOD OF INCORPORATING POLYMERIZED ALIPHATIC MONO-OLEFINS IN POLYMERIZED STYRENE
Thomas Robertson Scott and Malcolm Clifford Field, London, England, assignors to International Standard Electric Corporation, New York, N. Y.
No Drawing. Application November 3, 1938, Serial No. 238,704. In Great Britain November 9, 1937
12 Claims. (Cl. 260—42)

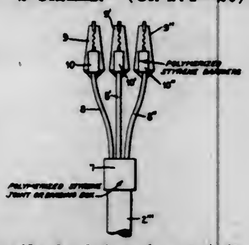
1. A method of incorporating polymerized aliphatic mono-olefins in polymerized styrene which comprises dissolving the polymerized aliphatic mono-olefin in monomeric styrene and then polymerizing the styrene.

2,282,003
ELECTRIC CABLE
Thomas Robertson Scott, Raymond Charles Mildner, and Thomas Edward David Menzies, London, England, assignors to International Standard Electric Corporation, New York, N. Y.
Application December 20, 1938, Serial No. 246,828
In Great Britain December 24, 1937
3 Claims. (Cl. 174—20)



1. A method of preparing a barrier in a fluid impregnated power cable which comprises building up the insulation around the core of said cable with fibrous tape impregnated with polymerized material, continuing the building up process until the tape overlaps the protective sleeve of the cable, basting the impregnated tape with polymerizable material during the building up process, and maintaining said polymerizable material at a polymerizing temperature after the building process is complete until polymerization occurs, whereby the risk of the impregnant within the cable leaking between the outer layer of the built-up insulation and the protective sleeve is minimized.

2,282,004
METHOD OF AND MEANS FOR TERMINATING ELECTRIC CABLES
Thomas Robertson Scott and John Krauss Webb, London, England, assignors to International Standard Electric Corporation, New York, N. Y.
Original application August 13, 1935, Serial No. 35,960. Divided and this application May 18, 1940, Serial No. 335,894. In Great Britain January 1, 1935
2 Claims. (Cl. 174—20)



1. The method of forming a tail cable which comprises impregnating a length of cable with polymerisable material, applying to one end of the cable a barrier of polymerisable material, subjecting the polymerisable materials to polymerisation and carrying the polymerisation of the material forming the barrier to a higher degree than that of the remainder of the cable.

2,282,005
PHENAZINE AND NAPHTHAZINE FOG INHIBITOR FOR PHOTOGRAPHIC EMULSIONS
Samuel E. Sheppard and Waldemar Vanselow, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application March 2, 1940, Serial No. 321,982
2 Claims. (Cl. 95—7)

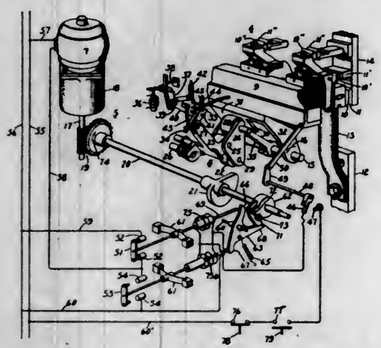
1. A photographic silver halide emulsion containing phenazine as an anti-foggant.

2,282,006
PIGMENT AND COATING COMPOSITIONS CONTAINING THE SAME
Clifford K. Sloan, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 1, 1940, Serial No. 338,384
23 Claims. (Cl. 106—308)

1. A process which comprises mixing a water-wet pigment, a volatile water-immiscible organic liquid and a cation-active agent selected from the class consisting of amines, salts of amines, quaternary ammonium compounds, sulfonium compounds, and phosphonium compounds, said compounds containing an open chain aliphatic radical of at least 8 carbon atoms in chain length, separating the excess water, drying the pigment, and recovering the pigment as a dry bulk powder.

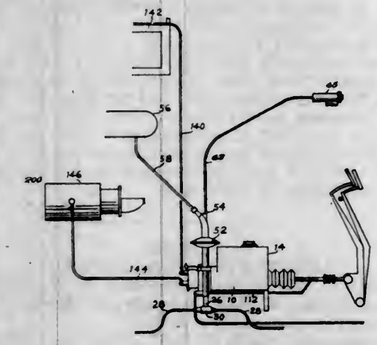
2,282,007
CONTROL OF MOTOR OPERATED DEVICES
Robert W. Smith, Folsom, Pa., assignor to General Electric Company, a corporation of New York
Application June 25, 1940, Serial No. 342,281
8 Claims. (Cl. 175—375)

1. In combination, a device to be operated to two positions, means for actuating said device from one of said positions to the other comprising an electric motor, and means for controlling the energization of said motor comprising two switches arranged to be sequentially operated to the circuit opening position by said motor in response to the actuation of said motor and



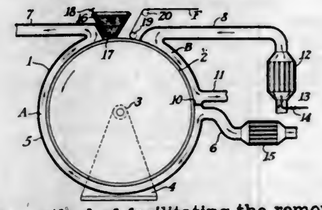
after actuation of said device to said other position, means for actuating said device from said other position to said one position, and means for returning at least one of said switches to the circuit closing position when said device moves to said one position independently of the stopping position of said motor.

2,282,008
HYDRAULIC CONTROL MECHANISM
Royal C. Smith, Wilberforce, Ohio
Application May 22, 1939, Serial No. 275,127
18 Claims. (Cl. 192—.02)



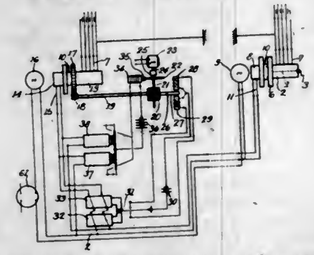
1. A hydraulic control mechanism for use in engine driven motor vehicles having brake control means and clutch releasing means, said hydraulic control mechanism including the combination of a fluid actuating device including a source of fluid supply, a cylinder communicating therewith and a piston mounted in the cylinder and actuated in response to movements of the brake control means and to movements of the clutch releasing means for actuating the fluid, a starter switch, and means for actuating the starter switch including a fluid responsive device responding to movements of the fluid actuated in response to movements of the clutch releasing means.

2,282,009
MANUFACTURE OF VINYL RESIN FILM AND SHEETING
Ralph H. Talbot, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 9, 1939, Serial No. 308,502
2 Claims. (Cl. 18—57)



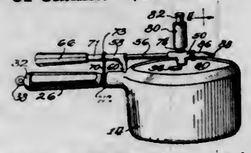
1. The method of facilitating the removal of a vinyl resin film from a surface upon which it has been cast from solution and to which it normally adheres tenaciously, which comprises removing the major portion of the solvent therefrom by means of substantially dry air and thereafter subjecting the free surface of the film while the film is in close contact with the film-forming surface to the action of an atmosphere having an absolute humidity ranging from 100 grains of moisture per pound of dry air to an amount of moisture corresponding to a value just below the saturation point of the air.

2,282,010
DEVICE FOR REMOTE CONTROL
Gábor Kornél Tolnai, Stockholm, Sweden, assignor to Aktiebolaget Gerh. Arehns Mekaniska Verkstad, Stockholm, Sweden, a joint-stock company of Sweden
Application March 4, 1940, Serial No. 322,221
In Sweden March 1, 1939
4 Claims. (Cl. 172—239)



1. A device for transmission of angular or rotary movements, comprising a transmitter, a receiver, an electric conduit for interconnecting said transmitter and said receiver, said transmitter and said receiver each having a voltage distributor comprising a series of contact members, a series of sources of electric current of stepwise increasing voltages each connected to one of said contact members to supply said contact members with electric current of successively and stepwise increasing voltages, said series of contact members consisting of a plurality of juxtaposed segments which are isolated from one another and form a curved contact bridge, a non-conducting field between the ends of said curved bridge, said series of contact members in said transmitter and in said receiver being arranged in similar sequences with respect to their voltages and having substantially corresponding voltages respectively, said transmitter and said receiver each having a collecting contact member forming terminals of said conduit and being adapted to electrically interconnect said sources of electric current and said electric conduit, means for relatively rotating the distributor and collecting member of said transmitter and said receiver, mechanical means for driving the receiver, and electro-magnetic means connected to said conduit to control said driving means.

2,282,011
PRESSURE COOKER AND SIMILAR CONTAINER
Alfred Vischer, Jr., Park Ridge, Ill., assignor to Vischer Products Company, Chicago, Ill., a corporation of Illinois
Application November 18, 1938, Serial No. 241,118
31 Claims. (Cl. 220—24)



31. A closure for a circular opening in a container comprising a flexible resilient dished metallic circular sheet internally stressed so as to assume a warped shape substantially along a diametral line when not subjected to external stresses, said closure being sufficiently elastic that it may be forced into its circular shape without exceeding the elastic limit of the metal of which it is made.

2,282,012
SELF-SHARPENING RAZOR
Charles F. Waite, Boston, Mass., assignor of one-third to Angelo Tsekrekas, Boston, Mass., and one-third to Chris Poravas, Boston, Mass.
Application August 22, 1940, Serial No. 353,646
3 Claims. (Cl. 30—36)

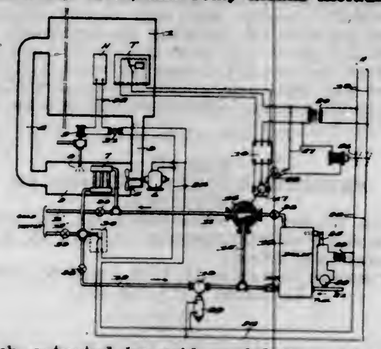


1. A razor assembly of the kind described, comprising a cap having a widthwise slot therethru, a guard, a blade adapted to be held therebetween, and a handle acting to clamp said elements in assembled position, in combination with a sharpening element carried by the cap and clamped rigidly with the blade, guard, and cap, said sharpening element being capable of use by said operating means upon releasing of the clamping action without disassembling the blade.

2,282,013
AIR CONDITIONING SYSTEM
Raymond V. Wetzsteon, Butte, Mont.
Application November 15, 1939, Serial No. 304,625
6 Claims. (Cl. 237—8)

6. In an air conditioning system, the combination with a heat exchanger, a hot water boiler, conduits connecting said heat exchanger and boiler, and a pump in one of said conduits for circulating water from the boiler through said heat exchanger, of means for adjusting the flow of water from the boiler to the heat exchanger, said means including a modulating valve in one of said conduits and a by-pass extending from said valve to the other conduit, a thermo-

stat in the space to be heated for actuating said modulating valve, and relay means including a



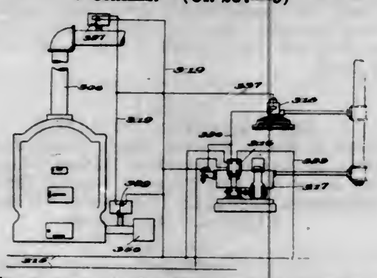
switch actuated by said modulating valve for energizing said pump and controlling the fuel supply to said boiler.

2,282,014

CONTROL MEANS FOR VACUUM HEATING SYSTEMS

Raymond V. Wetmteon, Butte, Mont.

Application December 20, 1939, Serial No. 310,228
7 Claims. (Cl. 237—9)



4. In a vacuum heating system including a steam supply main, a plurality of zone mains connected to said supply main, zone valves in each of said zone mains controlling the admission of steam thereto from said supply main, a return main and a vacuum pump connected to said return main; a control circuit for said vacuum pump comprising a vacuum-controlled switch responsive to the degree of vacuum in said return main, a switch means associated with each of said zone mains responsive to the presence of steam in said zone mains, said last mentioned switch means being connected in series with said vacuum-controlled switch and in parallel with respect to each other, whereby the presence of steam in any one of said zone mains will result in closing of the associated switch means to condition said control circuit and render said vacuum-controlled switch operative to control said vacuum pump.

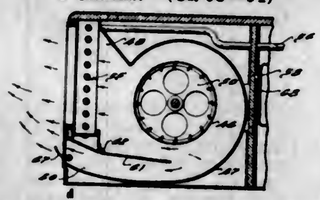
7. In a vacuum heating system comprising a supply side including a boiler, a burner for firing said boiler and a steam supply main, a return side and a vacuum pump connected to said return side, a control circuit for said vacuum pump including switch means responsive to the degree of vacuum in said return side, switch means responsive to operation of said burner to close when said burner is in operation and switch means responsive to the presence of steam in said supply main, said last two mentioned switch means being connected in series with said first mentioned switch means and in parallel with respect to each other whereby said vacuum responsive switch means is rendered operative to start said vacuum pump when said burner is in operation or when steam is present in said supply main.

2,282,015

AIR CONDITIONING UNIT

Burdell S. Williams, Dayton, Ohio, assignor to Chrysler Corporation, Detroit, Mich., a corporation of Delaware

Application November 13, 1939, Serial No. 303,965
3 Claims. (Cl. 98—94)



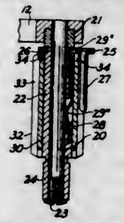
1. An air conditioning unit comprising cooling and dehumidifying means for treating the air, blower means in said unit for moving air into said unit in heat transferring relation to part of said cooling and dehumidifying means, said blower means including an outlet adjacent the remainder of said cooling and dehumidifying means whereby at least a part of the output of said blower means traverses said remainder of said cooling and dehumidifying means, and a relatively unobstructed duct communicating with said outlet and extending to a point adjacent the outlet side of said cooling and dehumidifying means whereby a proportion of the output of said blower means is directed into the room adjacent the stream of air issuing from said cooling and dehumidifying means, said duct being arranged beneath said cooling and dehumidifying means and having relatively large width in comparison to its depth whereby to project a horizontal blanket of air beneath the air issuing from said cooling and dehumidifying means and said duct being directed slightly upward whereby to project said blanket of air into the air issuing from said cooling and dehumidifying means.

2,282,016

FILM SUPPORT ASSEMBLY

Otto Wittel, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application July 26, 1939, Serial No. 286,661
4 Claims. (Cl. 242—70)



1. In a film support, the combination with a stationary spindle, a sleeve mounted for free rotation on said spindle and provided with a slot, and a spring member attached to said sleeve and having a portion protruding therefrom and normally spaced from said spindle, of a film holder provided with an axial hole and removably

mounted on said sleeve to move the protruding portion of said spring member into said slot and to move a portion of said spring member into frictional engagement with said stationary spindle.

2,282,017

RESINOUS PLASTICIZER

George Alexander, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Original application July 10, 1937, Serial No. 152,992. Divided and this application December 28, 1940, Serial No. 372,189
8 Claims. (Cl. 260—19)

1. A clear, liquid resinous composition consisting of the dehydrated product of reaction of ortho-cresol and formaldehyde in the ratio of 1 mol ortho-cresol to at least 1.05 mols formaldehyde and in the presence both of (1) an alkaline condensing agent selected from the class consisting of ammonia, amines and mixtures of ammonia and amines and of (2) an oil selected from the group consisting of China wood oil and oiticica oil, said oil being present in an amount corresponding to from about 20 to 40 per cent by weight of the dehydrated ortho-cresol-formaldehyde resin.

2,282,018

MANUFACTURE OF ALKALI METAL SILICATE DETERGENTS

Chester L. Baker, Penn Wynne, Pa., assignor to Philadelphia Quartz Company, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application October 31, 1938, Serial No. 238,109
9 Claims. (Cl. 252—135)

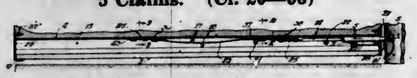
1. In the manufacture of alkali metal silicate detergents from anhydrous silicates, the process which comprises finely pulverizing an anhydrous alkali metal silicate, mixing therewith from about 10 to 75 per cent by weight of a finely-divided, solid, compatible alkaline detergent compound having a cementing action on the silicate particles and a rate of solution in water greater than that of said anhydrous silicate, gently agitating said mixture without the production of any substantial grinding or disintegrating action in the presence of a small amount of water sufficient to produce a moist, crumbly consistency but without any substantial solution or hydration of said anhydrous silicate, whereby composite granules of said mixture are formed, and continuing said agitation at drying and hardening temperatures until the moist mass is converted into substantially dry, dust-free granules comprising an aggregate of said anhydrous silicate particles embedded in a matrix of said alkali metal compound.

2,282,019

AUTOMATIC DOOR BOTTOM

William E. Balousek, Hinsdale, Ill., assignor to W. J. Dennis & Company, Chicago, Ill., a corporation of Illinois

Application August 7, 1939, Serial No. 288,823
5 Claims. (Cl. 20—68)



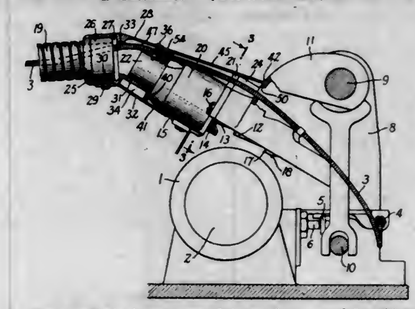
2. In a weather strip, the combination of a supporting member, a sealing element carried by said member, and a tape operatively engageable with said element and at one end with actuating means therefor, said tape having a tongue adjacent the opposite end thereof to form a shoulder, said tongue passing through a projecting portion of said member with said shoulder butting thereagainst, said tape having an aperture therein adjacent the end thereof, and means carried by said member positioned in said aperture to lock said tape to said member.

2,282,020

MEANS FOR CONNECTING SOUND TUBES TO DICTATING MACHINES

Theodore H. Beard and Joseph M. Lucarelle, Bridgeport, Conn., assignors to Dictaphone Corporation, New York, N. Y., a corporation of New York

Application November 26, 1940, Serial No. 367,243
4 Claims. (Cl. 274—17)



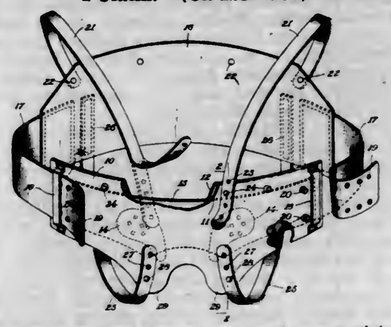
1. In a dictating machine, in combination, a sound tube, a carriage comprising a projecting slide casing for a translation unit, a flexible element extending through the interior of the sound tube and constituting means for controlling a function of the machine, a union interposed between said slide casing and said tube, means at one end of said union providing a swivel connection for said sound tube surrounding a portion of said element, means at the other end of said union to immovably connect said union to said slide casing, and means providing a passage extending longitudinally through a wall of said union to lead said element without material change of direction from the interior of said union within said swivel connection to the exterior of said slide casing.

2,282,021

TRUSS AND ABDOMINAL SUPPORT

Thomas Benningfield, Buffalo, Okla.

Application February 20, 1940, Serial No. 319,961
1 Claim. (Cl. 128—100)



A truss and abdomen support, comprising a

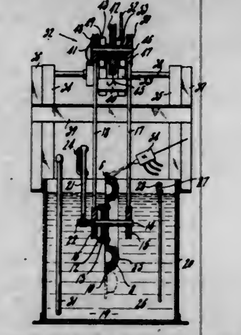
belt, an abdomen engaging member removably secured to the belt and formed of a looped piece of material forming inner and outer walls, a blank of material arranged between the outer and inner walls of the abdomen engaging member and secured at its ends between the walls, a spring socket carried by the blank of material and extending through an enlarged opening in the rear wall of the abdomen engaging member, and a truss pad having a stud adapted to enter said socket.

2,282,022

METHOD FOR FORMING TIRE MOLDS

Joseph W. Bishop, Detroit, and Arthur W. Bull, Grosse Pointe, Mich., assignors, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application August 31, 1937, Serial No. 161,736
4 Claims. (Cl. 22—203)



1. In a method of electro-forming pneumatic tire-molds, the steps comprising forming and vulcanizing a curved relatively thin-walled flexible matrix of rubber composition in bonded relation with a rigid supporting plate, said matrix comprising an exposed face which conforms to the shape of at least an elongated portion of a conventional tire and tread configuration, treating the exposed face of the matrix to provide an electrically conductive surface, forming a metallic shell on the matrix by electro-deposition and atomized thermo-deposition concurrently, and heating the matrix and the shell to break the bond therebetween, whereby said flexible matrix may be readily withdrawn from said shell.

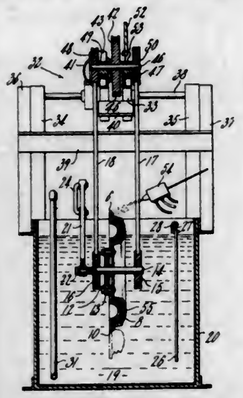
2,282,023

ELECTROLYTIC APPARATUS FOR FORMING TIRE MOLDS

Joseph W. Bishop, Detroit, and Arthur W. Bull, Grosse Pointe, Mich., assignors, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Original application August 31, 1937, Serial No. 161,736. Divided and this application August 16, 1938, Serial No. 225,128
2 Claims. (Cl. 204—215)

1. An apparatus for forming pneumatic tire molds comprising a tank containing an electrolyte, an annular matrix in the form of a transaxial replica of a pneumatic tire adaptable for vertical immersion in the electrolyte, electro-deposition means for forming a ferrous shell upon the matrix, means for rotating the matrix about its axis during electro-deposition, means for applying an atomized thermal deposit of metal during rotation of the matrix and during the electro-deposition for increasing the thickness of at least a portion of the electro-deposited ferrous shell, means for adjustably positioning said matrix relative to the level of the electrolyte so that said depositions may be simultaneously



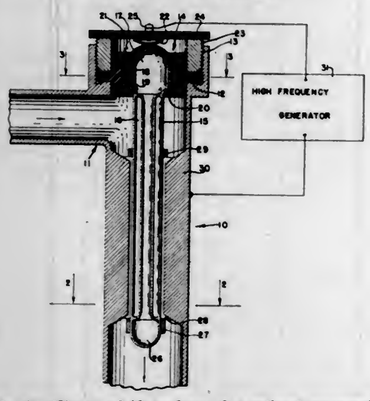
deposited on portions thereof, and means for maintaining the electrolyte at a temperature between 175 degrees Fahrenheit and 195 degrees Fahrenheit during its electro-deposition.

2,282,024

LIQUID STERILIZER

Ralph E. Bitner, New York, N. Y.

Application January 24, 1940, Serial No. 315,345
4 Claims. (Cl. 99—253)



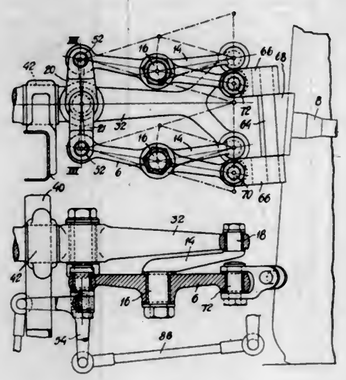
1. A sterilizer of the class described comprising in combination a conduit, an ultra-violet radiator, an electrical cell, and means for subjecting a liquid to the simultaneous action of ultra-violet rays and high frequency electrical power; said ultra-violet radiator comprising an elongated sealed envelope transparent to ultra-violet rays, a substance capable of emitting ultra-violet light within said envelope, an electrode at each end of said envelope, and a source of electrical power for energizing said substance; said electrical cell comprising a plurality of conducting plates arranged in two groups, one group disposed about said envelope and connected to one of said electrodes, the other group positioned in interspaced alternate arrangement with the plates of the first group and connected to the source of electrical power, and means for permitting the liquid to flow through said conduit between said plates.

2,282,025

WHEEL SUSPENSION

Edward William Börjeson, Stockholm, Sweden

Application November 18, 1938, Serial No. 241,287
In Sweden November 23, 1937
3 Claims. (Cl. 280—96.2)



1. In a vehicle, a frame, a wheel, a wheel carrying member, means connecting said wheel carrying member to the frame for independent rising and falling movement of the wheel with respect to the frame comprising parallel double arm levers pivotally connected at one end to said wheel carrying member, parallel link levers each pivotally connecting intermediate portions of one of said double arm levers to the frame, pivots for the other ends of the double arm levers mounted on the frame for movement with respect thereto in substantially horizontal directions, a bell crank lever pivotally mounted adjacent said pivots for vertical movement, and a steering link connecting said bell crank lever to said wheel carrying member.

2,282,026

TREATMENT OF POLYVINYL ACETAL RESINS

Bozetech C. Bren, Verona, and John H. Hopkins and George H. Wilder, Arlington, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 29, 1939, Serial No. 270,740
12 Claims. (Cl. 260—73)

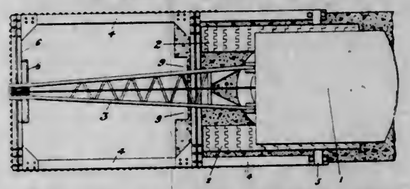
1. Process of treating a crude polyvinyl acetal resin which comprises steeping said resin, in finely divided form, in a steeping liquid comprising essentially an aqueous solution of an alkaline substance from the group consisting of alkali metal hydroxides and tertiary amines, the quantity of said alkaline substance being such as to produce and maintain in said steeping liquid a pH of 7.5–11.0, under active agitation at a temperature adapted to effect softening of the resin particles in said steeping liquid without agglomeration of said particles while subjected to agitation, and subjecting the resin to the action of a water soluble aldehyde-binding reagent from the group consisting of urea, methacrylyl urea, isopropylmethylene urea, hexamethylenetetramine, and di(ortho tolyl) guanidine while said resin is suspended in an aqueous vehicle having a pH of 7.5–11.0.

2,282,027

METHOD OF CASTING CEMENT

James B. Brockhurst, Red Bank, N. J.

Application September 30, 1938, Serial No. 232,515
2 Claims. (Cl. 61—50)



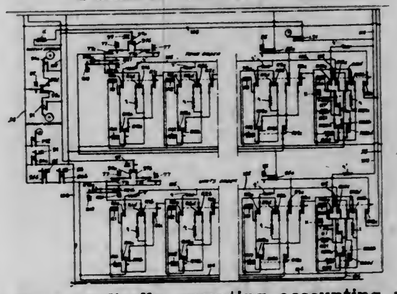
1. The method of casting a line of blocks to form the top of a previously built jetty or like structure, which comprises supporting a mold having front and side walls from a traveling mold-lifting-and-shifting device resting on a part of the line already constructed and connected to the mold so that engagement of the side walls with the sides of blocks previously formed will guide the traveling device and the mold when lowered will be held against movement relative to said traveling device longitudinally of said line, positioning said mold over a part of said jetty on which an additional block is to be cast, casting a block in the mold thus positioned, moving the mold to a new position by lifting and advancing the mold and then lowering it into casting position.

2,282,028

ELECTRICAL ACCUMULATOR

James W. Bryce, Glen Ridge, N. J., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

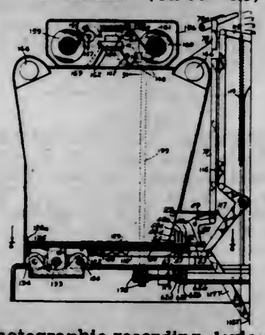
Application June 21, 1938, Serial No. 214,930
4 Claims. (Cl. 235—61.6)



1. In a cyclically operating accounting machine controlled by a record having value designations differentially located thereon in accordance with the magnitude of the digit values, in combination, means for analyzing said record while in motion for said value designations during a cycle, an impulse circuit including circuit breaker contacts capable of causing intermittent energization of the circuit to initiate a predetermined number of impulses in succession corresponding to the highest digit value within said cycle, a control relay including contacts in said circuit operated under the control of the analyzing means upon analysis of one of said value designations for conditioning the circuit for initiation of impulses by the circuit breaker contacts at a differential time in the cycle depending on the location of the latter value designation on the record, whereby a succession of impulses dependent in number upon the location of said value designation is effectively initiated during

the remainder of the aforesaid cycle, a series of pairs of relays, each pair including an entry control relay and a value manifesting relay, means for directing the first of said succession of impulses to an entry control relay of one of the pairs of relays in the series, means controlled by the latter relay upon receiving an impulse for operating the companion value relay, means controlled by said value relay upon becoming energized for maintaining itself in an operated condition and to cause deenergization of the operated entry control relay upon interruption of the first impulse, and means controlled by the latter entry control and value relays for routing the next impulse to the next entry control relay, whereby the pairs of relays are operated in progression from one digit value position to another until a number of progressive operations are performed corresponding to the number of impulses initiated during the cycle in accordance with the magnitude of the analyzed value.

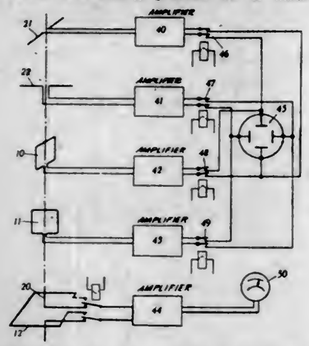
2,282,029
RECORDING DEVICE
James W. Bryce, Glen Ridge, N. J., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application June 30, 1939, Serial No. 282,204
5 Claims. (Cl. 95—4.5)



1. A photographic recording device for recording indicated data images in color upon a light sensitive medium capable of registering the said images in color comprising an objective, means to control the exposure of the said light sensitive medium through the objective to the indicated data, a plurality of positionable data indicating elements, data selecting means for controlling the positioning of the indicating elements in accordance with the selected data, rotatable color indicating means, one for each indicating element, and carried by the latter, selectively operable means for controlling the positioning of the said rotatable color indicating means whereby the latter indicate the selected data in the desired colors, and means controlled by said data selecting means for controlling the first mentioned means to effect exposure of the said light sensitive medium to the selected data images having the selected color values thereby causing the said images to be recorded, in color on the said medium.

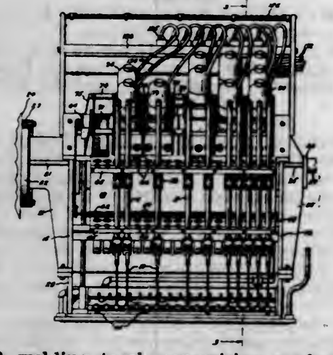
2,282,030
SYSTEM OF GUIDING VEHICLES
Henri Gaston Busignies, Paris, France, assignor to International Standard Electric Corporation, New York, N. Y.
Application September 1, 1938, Serial No. 227,991
In France September 17, 1937
2 Claims. (Cl. 250—11)

1. Apparatus for finding the direction of an electromagnetic wave transmission comprising two sets of three antennae, the antennae of one set consisting of frame aerials arranged in three mutually perpendicular planes, the antennae of the other set constituting doublet antennae arranged in three mutually perpendicular planes, current indicating means arranged for connection to the antennae of both said sets to indicate the relative strengths of the currents induced in the antennae for obtaining said direction of transmission, two of said frame aerials being connected each to the deflecting plates of a cathode ray



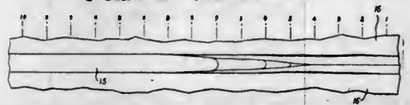
oscillograph and two of said doublet antennae being each connected to a pair of deflecting plates of a cathode ray oscillograph, whereby representation of the resultant direction indications projected on an orthogonal plane is obtained for both antenna sets and means provided for determining the value of the component strengths in the said orthogonal plane so that the said projection of the resultant indications on the orthogonal plane and the strengths in that plane may be compared and the real direction of the transmitting antenna found.

2,282,031
WELDING APPARATUS
James T. Catlett, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application January 27, 1940, Serial No. 315,995
11 Claims. (Cl. 219—14)



1. A welding torch comprising a plurality of identical means for holding and feeding electrodes, means for interchangeably supporting said electrode holding and feeding means along a line of welding in any one of a plurality of spaced positions greater in number than the number of said electrode holding and feeding means, a motor for each of said electrode holding and feeding means, and unitary means comprising a plurality of transmissions for connecting groups of said motors mounted on said unitary means with groups of said electrode holding and feeding means located in adjacent positions in their said supporting means.

2,282,032
METHOD OF SEAM WELDING
James T. Catlett, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application January 27, 1940, Serial No. 315,996
3 Claims. (Cl. 113—112)

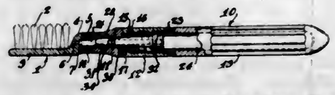


1. The method of seam welding which comprises progressively applying heat along a Y seam as rapidly as possible until the leading end of an elongated pool of molten metal begins to form in the seam, then at a less rapid rate to transmit heat through said pool of molten metal until the non-molten edges of said seam below said pool have been raised to a forge welding temperature, and finally at a still less rapid rate which permits the trailing end of said pool to solidify from its bottom upwardly and while thus applying heat applying a side pressure to said seam which progressively brings opposed surfaces at its bottom into engagement with one another before the formation of said pool, then completes a forge weld between said bottom surfaces with sufficient deformation of the seam edges to fill the top portion of said seam with said molten metal and finally holds said seam securely during the time necessary for the welded portions to become strong enough to withstand the stresses resulting from the welding operation.

2,282,033
TREATMENT OF HYDROCARBON OILS
Vladimir L. Chechot, Philadelphia, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application November 3, 1939, Serial No. 302,699
10 Claims. (Cl. 196—40)

1. The process of refining viscous hydrocarbon oil, which comprises adding to the oil a small quantity of finely-divided mica and talc, contacting the mixture with sulfuric acid, and separating from the treated oil the mica-talc mixture containing entrained acid sludge.

2,282,034
DISPENSING CONTAINER
Carl J. Christensen and Leslie P. Shepherd, Toledo, Ohio
Application May 17, 1941, Serial No. 393,986
2 Claims. (Cl. 221—79)



1. A dispensing container of the class described including a nipple having a discharge passage therethrough, a sleeve rotatably attached to the inner end of the nipple and held thereby against relative axial movements, a barrel attached to the sleeve in opposition to said nipple, valve means including a stem portion threaded in said sleeve and a plunger at the forward end of the stem mounted for non-rotative movements in said nipple and reciprocally movable in its bore when the sleeve is turned relative to the nipple, said valve having a stem passage in communication at its rear end with the interior of the barrel and open at its forward end to said nipple passage when the plunger has been retracted a predetermined extent, said plunger operating during a forward stroke thereof to force liquid from said passage.

2,282,035
DISPENSING CONTAINER
Carl J. Christensen and Leslie P. Shepherd, Toledo, Ohio
Application May 17, 1941, Serial No. 393,987
3 Claims. (Cl. 221—67)



1. In a dispensing container of the class described, a body including a discharge end part, a rear end storage chamber part and a sleeve attached to the inner end of said rear end part for movements therewith and having rotatably threaded connection with the inner end of said discharge part, said discharge end part having a bore therein with a forwardly reducing taper at its forward end and with a side discharge orifice, a needle type valve fixedly attached at its rear end to said rear end part by said sleeve part and projecting forwardly into said bore and having its forward end tapered and fitting the bore taper, said valve having a discharge passage lengthwise therethrough forwardly from its rear end to near the forward end of its taper the rear end of said passage being in communication with the chamber in said rear end part and the forward end of said passage having a side discharge orifice for registering with said first discharge orifice when the sleeve and rear end part have been turned to one position relative to the discharge end part and being closed to said first orifice when said sleeve and rear end part have been turned to another position relative to the discharge end part.

2,282,036
CIGARETTE CASE
John James Cobbs, Roanoke, and Joseph Chapman, Catawba, Va., assignors of two-thirds to John James Cobbs, Roanoke, Va., and one-third to Joseph Chapman, Catawba, Va.
Application November 7, 1938, Serial No. 239,374
4 Claims. (Cl. 206—41.2)

1. In a cigarette case comprising a container for the reception of a plurality of cigarettes, said container having opposed front and rear walls, a filling opening at one end thereof and a dispensing opening at the other end, a baffle within the container adjacent the dispensing opening and projecting from the front wall towards the rear wall and terminating short thereof to limit the passage of the cigarettes in single order, a U-shaped dispenser pivotally supported on the container and covering the dispenser opening and adapted for pivotal engagement into an open position to singly present the cigarettes for removal, the upper rear edge of the U-shaped dispenser adapted to swing beneath the edge of

the baffle when the dispenser is moved to open position, and means released by the pivotal movement of the dispenser and coactive with the



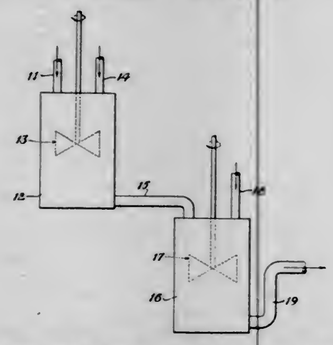
baffle to prevent the passage of a cigarette past the baffle when the dispenser is moved to open position.

2,282,037

PROCESS OF PRODUCING GRANULAR PRECIPITATES FROM COLLOIDAL SOLUTIONS

Joseph Dahle, Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

Application October 26, 1938, Serial No. 237,044
11 Claims. (Cl. 260—73)



1. A process of producing granular precipitates of porous structure from colloidal solution of polyvinyl acetal resin which comprises mixing colloidal solution of polyvinyl acetal resin with sufficient precipitant to effect a gelling of said polyvinyl acetal resin while dispersing the gelatinous material thus formed into substantially finely divided coalescible gelatinous particles by agitation, and, before coalescence of said gelatinous particles, treating said particles with a sufficiently high concentration of precipitant for a sufficient length of time to render them substantially permanently discrete, while maintaining said particles in separated condition by agitation.

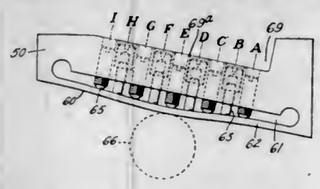
2,282,038

VARIABLE TRIMMER CAM

Granger Davenport, Verona, N. J., assignor to Gould & Eberhardt, Newark, N. J., a corporation of New Jersey

Application October 7, 1939, Serial No. 298,389
5 Claims. (Cl. 125—11)

1. A cam for variably controlling the rate of movement of a cam follower comprising a member having its outer edge finished to cooperate with a cam follower and its inner edge disposed normally equidistant therefrom; said member having a slot therein adjacent the said finished edge thereby physically separating the major portion of the member into a relatively thin flexible follower engaging edge portion and a relatively heavy and inflexible main body; said slot being closed at its ends and extending the major part of the length of the said finished edge; and a



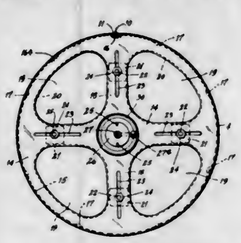
plurality of screw means operatively connecting said separated portions of the member for flexing regions of said relatively thin edge portion selectively toward or away from the main body portion of the member to effect a predetermined departure from the initial contour of said finished edge; and means including said inner edge for measuring the extent of adjustment given to said regions of the finished edge relative to the said inner edge.

2,282,039

INDICATING CYLINDER

Edgar A. Doogan, St. Louis, Mo., assignor to Hussmann-Ligonier Company, St. Louis, Mo., a corporation of Missouri

Application October 23, 1939, Serial No. 300,805
4 Claims. (Cl. 116—129)



1. A rotary indicator for weighing scales comprising a sheet of thin material rolled into a hollow cylinder of large diameter with its longitudinal margins flush with the periphery of said cylinder and disposed in edgewise abutting relation, and a separate cover strip located inside said hollow cylinder opposite said abutting margins, said strip having a series of longitudinally spaced slots extending therethrough, and said abutting margins having inwardly bent longitudinally spaced tabs thereon whose outer faces are flush with their associated margins and which extend through and are anchored in said slots.

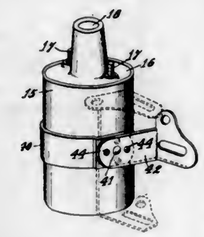
2,282,040

IGNITION COIL

James A. Doran, Providence, R. I.

Original application September 10, 1932, Serial No. 632,483. Divided and this application September 25, 1939, Serial No. 296,367
16 Claims. (Cl. 175—357)

1. In an ignition coil, a seamless metallic container, oppositely disposed bracket bases on said container, support brackets rotatably mounted on said bases, and means for locking said



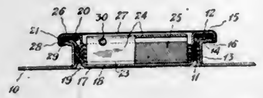
brackets against rotation in one of a plurality of selective positions relative to said container.

2,282,041

CONTAINER CLOSURE CONSTRUCTION

Charles T. Draper, Cleveland Heights, Ohio, assignor to The Draper Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application December 16, 1938, Serial No. 246,118
2 Claims. (Cl. 220—39)



1. In metallic container closure construction, a sheet metal wall provided with an integral standard pipe threaded tubular neck forming a bung opening, the neck terminating in an outturned flange, a ring surrounding said neck and having an outturned flange engaging the neck flange from beneath and extending outwardly therefrom and forming therewith a shoulder, a sheet metal closure plug having a standard pipe threaded tubular portion threaded into said neck and having a flange lapping said shouldered flange, the threaded sheet metal tubular portions of said neck and plug being internally and externally roller swaged throughout, a downturned annular flange at the outer edge of said plug flange surrounding said extended shouldered neck flange, a single gasket clamped between the outturned plug flange and shouldered flange and enclosed by said downturned flange providing a liquid tight seal for said opening, and tamper sealing means engaged around said flanges.

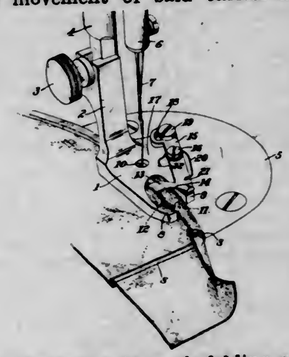
2,282,042

HEMMING ATTACHMENT FOR SEWING MACHINES

John P. Enos, Union, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application November 19, 1940, Serial No. 366,199
5 Claims. (Cl. 112—141)

1. A sewing machine hemming attachment comprising a base-member, an arbor fixed to said base-member and disposed so that its free end extends substantially in the normal direction of feed, a work-folding scroll complemental to said arbor, a carrier-arm sustained upon said base-member and supporting said work-folding scroll for movement relative to said arbor in a direction inclined rearwardly and away from the normal line of seam-formation, means for limiting the movement of said carrier-arm, and



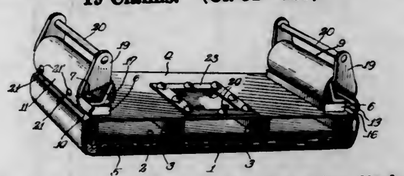
means for biasing said work-folding scroll into cooperative position with said arbor.

2,282,043

RUBBING MACHINE

Gustaf H. Ekstrom, Rockford, Ill., assignor to Sundstrand Machine Tool Co., Rockford, Ill., a corporation of Illinois

Application November 8, 1939, Serial No. 303,354
19 Claims. (Cl. 51—189)



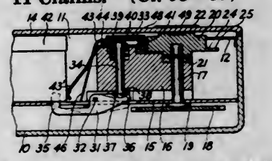
1. In a rubbing shoe of the character disclosed having a plate over which an abrasive sheet extends with the ends thereof extending about the ends of the shoe, in combination, a clamping means for the abrasive sheet secured to each end of the plate, said clamping means comprising a still jaw secured to the plate, a live jaw, and a resilient portion connected between said jaws, a cam element located in fixed relation to the still jaw, and a key member fulcrumed against the live jaw and contacting the cam for sliding over said cam when the key member is forcibly rocked to move past dead center in the nature of a toggle action so as to open the jaws and hold them locked in open condition.

2,282,044

INDICATING MEANS AND MAGAZINE EJECTOR FOR FILM HANDLING APPARATUS

Henry N. Fairbanks, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

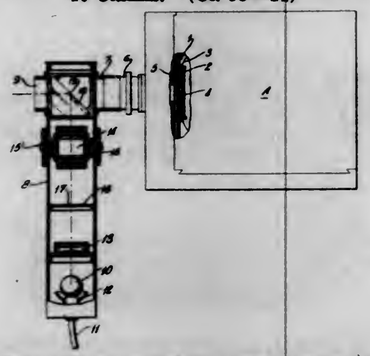
Application April 29, 1939, Serial No. 270,828
11 Claims. (Cl. 95—31)



1. In a film handling apparatus of the magazine type, the combination with a casing providing a magazine chamber and having a panel

adjacent thereto, and an indicating means at said panel and movable to various positions for indicating an operating condition of said apparatus, of an ejecting means for displacing a film magazine with respect to said chamber, including a finger member available at said panel, means operatively arranged between said indicating means and said ejecting means, for preventing operation of said ejecting means and permitting operation thereof only when said indicating means is in a predetermined position, and a cover for said casing, for enclosing said magazine chamber and for covering said panel to render inaccessible the finger member of said ejecting means but provided with an opening through which said indicating means may be observed.

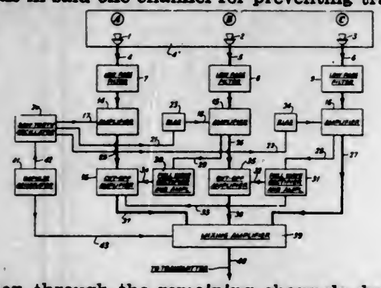
2,282,045
VIEW FINDER
Max Fleischer, Miami Beach, Fla.
Application March 11, 1940, Serial No. 323,445
40 Claims. (Cl. 95—44)



1. The method of defining upon a scene to be photographed by a camera upon a photographic film therein the portion of said scene corresponding to the frame of exposure of said film, comprising directing a beam of light towards the focal plane of a photographic lens having a focal length selected for the exposure of said film, shaping said beam at the focal plane of said lens to a size and shape equal to the frame of exposure of said film and projecting said shaped beam by said lens upon said scene, the plane of shaping of said beam being located at a distance from the scene as measured along said beam, equal to the distance of the frame of exposure of said film from the scene, and said shaped beam falling upon said scene in a direction along the optical axis of the camera.

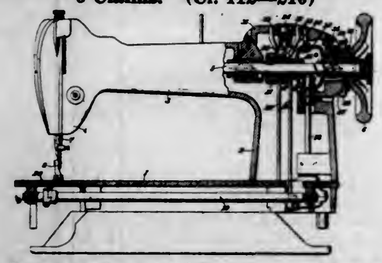
2,282,046
MULTIPLEX SIGNALING SYSTEM
Alfred N. Goldsmith, New York, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application September 1, 1939, Serial No. 292,995
8 Claims. (Cl. 179—1)

1. In combination with a plurality of audio signal transmission channels, the signals of the channels being different, a saw tooth oscillator, separate connections from said oscillator to said channels for controlling signal transmission therethrough, a timing impulse generator, means responsive to said impulse generator for controlling said oscillator, means in circuit with the oscillator and at least one of the channels for preventing transmission through the one channel during transmission through the remaining channels, and additional means responsive to signals in said one channel for preventing trans-



mission through the remaining channels during periods of transmission through the one channel.

2,282,047
FEED REGULATING MECHANISM
David A. Graesser, Elizabeth, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application November 15, 1940, Serial No. 365,734
6 Claims. (Cl. 112—210)

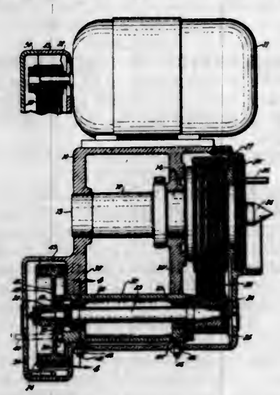


1. In a sewing machine, in combination, a frame, an actuating shaft journaled therein, a feed-advance eccentric on said shaft mounted for adjustment of its eccentricity relative thereto, a detent mounted in said frame and adapted to cooperate with said shaft in the adjustment of the eccentric, a feed-advance indicating means including an indicating disk and a stationary pointer carried by said frame, said indicating disk being secured to said shaft and adapted to cooperate with the pointer, driving means including a balance-wheel mounted upon said shaft, and a manually operable clutching means secured to one end of the shaft and adapted to connect and disconnect said driving means to and from said shaft.

2,282,048
HEADSTOCK FOR MACHINE TOOLS
Andrew J. Graf, Norwood, Ohio, assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a corporation of Ohio
Application December 24, 1940, Serial No. 371,504
3 Claims. (Cl. 51—237)

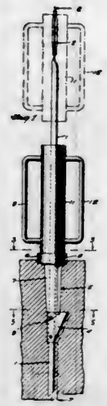
1. A headstock unit for a grinding machine comprising a housing having guide portions formed on the underside thereof for cooperation with the ways of a grinding machine and having a seat portion formed on the upper surface thereof, said housing having aligned bearing portions formed in the forward portion thereof, a headstock spindle rotatably mounted in said bearings, a multiple groove sheave mounted on the spindle, the housing having additional apertures formed therein rearwardly of the spindle

bearings, a sleeve rotatably mounted in the apertures and extending in axial parallelism with the headstock spindle, bearings eccentrically disposed within the sleeve, a drive shaft rotatably supported in said bearings, a multiple groove pulley carried by the drive shaft, flexible driving means connecting the pulley and sheave for imparting rotation to the headstock from the shaft, the sleeve having a peripheral groove formed therein near one end thereof and a circumferentially extending series of apertures



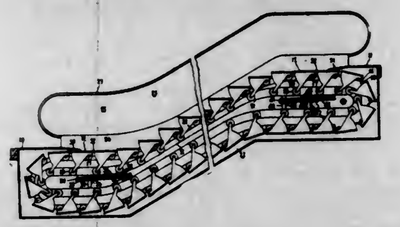
near the opposite end thereof, a first guide and clamp member carried by the housing having a portion engaged in the groove for determining the axial positioning of the sleeve, and a second clamp member also carried by the housing having a portion selectively engageable in the several apertures of the sleeve for locking the same in rotatable adjusted position whereby the tension of the flexible driving means may be varied by rotative adjustment of the sleeve and consequent displacement of the eccentric bearings and the shaft journaled therein.

2,282,049
METHOD OF SINKING POSTS
John C. Haggart, Jr., Westfield, N. J., assignor to Signal Service Corporation, a corporation of Delaware
Application October 26, 1939, Serial No. 301,431
1 Claim. (Cl. 61—73)



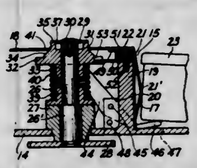
The method of driving a post having anchoring spurs near its lower end into the ground until the anchoring spurs are completely buried, comprising disposing an elongated ground penetrating impact member loosely upon the post in axial alignment therewith with its lower end in contact with the upper surface of the spurs, driving the impact member into the ground until it has forced the spurs and post down to anchoring position, and then withdrawing the impact member from the ground and removing it from the post.

2,282,050
MOVING STAIRWAY
Arthur Edward Handy, Lynbrook, and Carl John Kroepel, Manhasset, N. Y., assignors to Otis Elevator Company, New York, N. Y., a corporation of New Jersey
Application July 26, 1941, Serial No. 404,106
5 Claims. (Cl. 198—16)



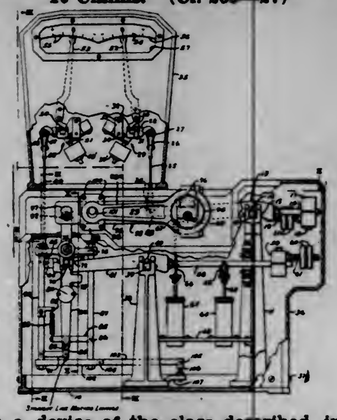
1. A moving stairway comprising, an endless series of steps extending between an upper and lower landing, a plurality of apertures in each step along the space between it and the adjacent step when the steps are in platform formation, and means for projecting light from below through said spaces between steps and through said apertures in said steps at the entrance end of the stairway.

2,282,051
COMBINED EJECTOR AND INDICATOR FOR FILM HANDLING APPARATUS
Grayson O. Helbing and Aleysius E. Lechleitner, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application April 26, 1939, Serial No. 270,124
12 Claims. (Cl. 95—31)



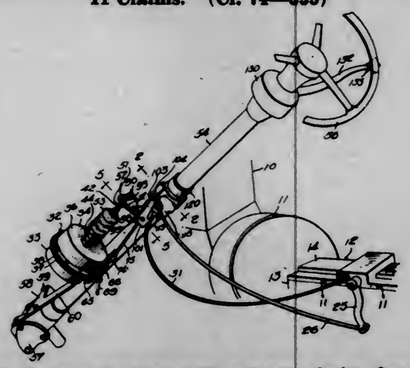
1. In a film handling apparatus of the magazine type, the combination with a casing providing a magazine chamber, and an indicating means on said casing and for indicating an operating condition of said apparatus, of an ejecting means on said apparatus and for displacing a film magazine with respect to said magazine chamber, and an element constituting a part of said indicating means and movable in one sense to indicate said operating condition of the apparatus, and constituting also a part of said ejecting means and movable in another sense for displacement of a film magazine with respect to said magazine chamber.

2,282,052
TESTING DEVICE FOR DETERMINING MASS DISTRIBUTION
Halvor O. Hem, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application June 21, 1940, Serial No. 341,738
10 Claims. (Cl. 265—27)



3. In a device of the class described, in combination, a pair of levers having fulcrums, means for supporting said levers on such fulcrums, means for balancing said levers about such fulcrums and said levers being in substantial parallel relation when in balanced condition, a counterbalancing mechanism and associated indicating means operatively connected to each of said pair of levers, means associated with each of said levers for supporting the opposite ends of an elongated article to be tested on said device, said supporting means being correctly spaced when such levers are in such substantial parallel relation and said supporting means including means for substantially maintaining such correct spacing when said levers assume a nonparallel relation.

2,282,053
GEAR SHIFTING MECHANISM
Henry W. Hey, Richmond, Va., assignor to Automatic Shifters, Inc., Richmond, Va., a corporation of Virginia
Application December 6, 1938, Serial No. 244,287
11 Claims. (Cl. 74—335)

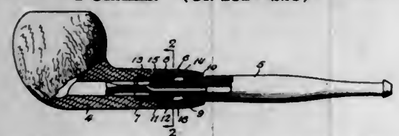


1. In combination with a transmission having a member shiftable into different transmission setting positions, a fluid pressure motor for moving said shiftable member, a manually operable handle, a valve mechanism for controlling said motor connected to said handle and to said motor to provide a follow-up action for said valve mechanism, motion transmitting means connecting said motor and said handle to said shiftable member whereby the operator, in moving said handle, performs a predetermined portion of the work required for moving said shiftable member, and fluid pressure operated means connected to resist movement of said handle to a degree proportional to differential pressures in said motor.

2,282,054
PRESERVATION OF GLYCERIDE OILS
Kenneth C. D. Hickman and James G. Baxter, Rochester, N. Y., assignors to Distillation Products Inc., Rochester, N. Y., a corporation of Delaware
No Drawing. Application October 5, 1938, Serial No. 233,496
3 Claims. (Cl. 260—398.5)

1. The process of protecting a glyceride oil which contains vitamin A against oxidation without actual admixture of a protecting agent therewith whereby the vitamin A and the glyceride oil can be stored without substantial deterioration and can be separated with ease from the protecting agent, which process comprises in combination floating a body of the glyceride oil of substantial bulk during the period of protection upon an aqueous body immiscible with the oil in which aqueous body is dissolved a substance capable of reacting with peroxides.

2,282,055
SMOKING PIPE
Rudolph Hirsch, North Bergen, N. J.
Application October 19, 1939, Serial No. 300,179
4 Claims. (Cl. 131—225)



1. In a smoking pipe, a stem including a fitting carried at one end thereof and having a cavity, a socket member forming a lining for said cavity and having a valve seat, a mouthpiece insertible into said socket member and seating therein, and a valve supported by said mouthpiece for engagement with said valve seat.

2,282,056
TOY
Victor T. Hoeflich, New York, N. Y., assignor to American Merri-Lei Corporation, New York, N. Y., a corporation of New York
Application December 10, 1940, Serial No. 369,387
5 Claims. (Cl. 46—181)

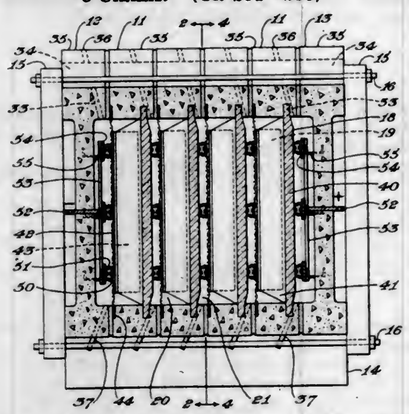


1. A toy comprising, in combination, a relatively elongated breath-operated horn and a simulated hand, said horn comprising a frustro-conical tubular horn body made of a piece of sheet material rolled to desired shape, a mouthpiece secured at the small end of the horn, said mouthpiece including a reed for producing sound in response to breath or mouth operation, said hand simulation having spread fingers and being so mounted on the horn that the thumb points toward the mouthpiece end of the horn in proper position to be juxtaposed to the nose of a person placing the mouthpiece in his mouth to use the horn, said hand simulation being formed of a piece of sheet material cut out to form two connected sets of spread fingers, the connecting portion of said sheet being folded about the tubular horn body with the two sets of fingers secured face to face to form a single set of fingers, the connecting portion of said piece of sheet material being secured to the tubular horn body.

2,282,057
PURIFICATION AND STABILIZATION OF POLYVINYL ACETAL RESINS
John H. Hopkins and George H. Wilder, Arlington, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 29, 1939, Serial No. 270,741
11 Claims. (Cl. 260—73)

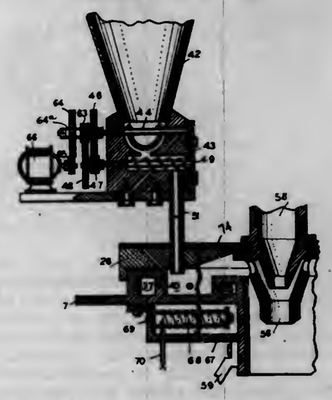
1. In a process of treating a crude polyvinyl acetal resin the step comprising steeping said resin, in finely divided form, in a steeping liquid comprising a mixture of water and a water-miscible solvent for the said resin and an alkaline substance from the group consisting of alkali metal hydroxides and tertiary amines, dissolved therein in a quantity to produce and maintain in said steeping liquid an apparent pH of at least 7.5, with active agitation and at a temperature adapted to effect softening and swelling of said resin in said steeping liquid and cause agglomeration of said resin in the absence of active agitation but not in the presence of active agitation, said temperature not exceeding 60° C.

2,282,058
ELECTROLYTIC CELL
Ralph M. Hunter, Lawrence B. Otis, and Robert D. Blue, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application January 24, 1939, Serial No. 252,634
8 Claims. (Cl. 204—256)



1. An electrolytic cell series of the bipolar electrode filter-press type comprising a plurality of unit cells, each unit including in combination: a frame of non-conducting material; an anode structure secured in the frame and functioning also as the sole partition between the unit cell and the adjacent unit and composed of an imperforate partition having a plurality of spaced parallel graphite members disposed transversely to and projecting from one face of said partition; a cathode structure secured in the frame and comprising a flat metal screen having secured thereto on one face thereof a plurality of spaced parallel closed hollow screen fins disposed transversely to the screen and entering the spaces between the graphite members projecting from the anode partition; and a permeable diaphragm covering said cathode structure; electrical contact means connecting the rear face of the anode structure in each unit cell with the rear face of the cathode structure in the adjacent unit by direct physical contact; and terminals connecting the end unit cells with a source of current.

2,282,059
CONTINUOUS STERILIZER
Samu-El Ish-Shalom, Brooklyn, N. Y.
Application June 10, 1939, Serial No. 278,513
12 Claims. (Cl. 21—93)

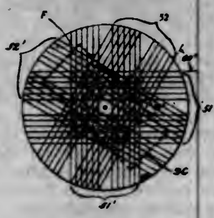


1. An apparatus for continuously sterilizing materials comprising an annular chamber, means for introducing a transporting and agitating stream of gas into and through said chamber, means for heating said chamber, means for introducing continuously material to be sterilized at one side of said chamber, an exit opening at another side thereof, and a separator for removing and recovering the sterilized material.

2,282,060
GONIOMETER COIL FOR RADIO DIRECTION FINDING SYSTEMS
Ivor Reginald John James and Charles Frederick Allen Wagstaffe, London, England, assignors to International Standard Electric Corporation, New York, N. Y.
Application February 11, 1938, Serial No. 189,978
In Great Britain March 19, 1937
1 Claim. (Cl. 250—11)

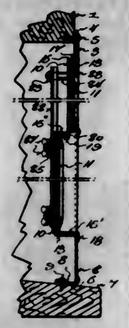
A radio goniometer for producing a substantially pure sine wave comprising a pair of relatively rotatable frames, a search coil carried by one of said frames, and two windings carried by the other frame and having their axes arranged substantially at right angles to each other, each

winding comprising two winding sections arranged at substantially 60° with respect to one



another and connected in series, said two winding sections being distributed over substantially two-thirds of their supporting frame.

2,282,061
COMBINATION STORM AND SCREEN SASH
Nickolas Jasperson, Oshkosh, Wis.
Application February 8, 1941, Serial No. 378,007
3 Claims. (Cl. 189—64)



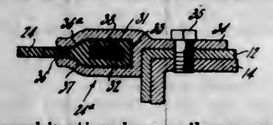
1. A metal combination storm and screen sash comprising, a main frame having an elongated central opening surrounded by a rearwardly extending flange, upper and lower sash frames having flanged edges straddling the main frame flanges, an interlocking connection between the top of the upper sash frame and the main frame, the lower sash being vertically slidable on the main frame, an interlocking connection between the bottom of the top sash frame and the upper edge of the lower sash frame, and a pair of side angle bars shiftably mounted on the main frame engaging the lower sash frame for releasably retaining the sash frames on the main frame.

2,282,062
ENVELOPE OPENER
Raymond V. Jewett, Chitina, Territory of Alaska
Application May 26, 1941, Serial No. 395,302
3 Claims. (Cl. 30—294)



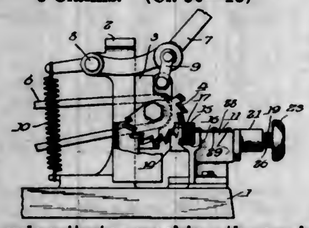
1. An envelope opener comprising a body formed with a longitudinally extending slot and a longitudinally extending channel, the slot extending diagonally of the channel and opening into the channel, a blade in said slot pivoted at one end and having a diagonally extending sharpened edge projecting from the slot into the channel, fasteners passing through walls of the slot out of engagement with the blade and when tightened serving to draw the walls into binding engagement with side faces of the blade to frictionally grip the blade and firmly hold the blade in adjusted position with its sharpened edge extending into the channel a predetermined distance, and a set screw threaded through a socket formed in the body with its inner end bearing against the inner side edge of the blade.

2,282,063
RAILROAD PASSENGER CAR
Walter C. Keys, Detroit, Mich., James A. Youngiove, Highland Park, Ill., and Robert D. Gartrell, Oakland, and Richard H. Hambidge, Nutley, N. J., assignors, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application October 7, 1938, Serial No. 233,708
2 Claims. (Cl. 105—15)



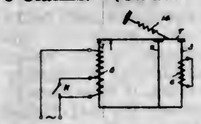
1. The combination in a railway car of a vestibule flexible diaphragm for said vestibule, and of means for connecting said diaphragm to the end of said car comprising a marginal bead formed on the edge of said diaphragm and merging into the surface of the diaphragm, a member secured to the end of said car and having a groove formed therein which retains said bead, said groove having an opening the width of which is less than the thickness of said bead and through which said diaphragm projects, said groove having a throat leading directly to said opening in the lengthwise direction of the car, said throat forming an abutment for the sloping side of said bead and conforming substantially to the shape of the surface of the bead contacting therewith, said bead and groove having a center line lying substantially in a plane perpendicular to the lengthwise direction of the car, said bead having a sliding fit in said groove and thereby being adapted to be pulled as a whole by the diaphragm towards said opening and wedged in said throat and thereby support the entire pull on said diaphragm.

2,282,064
MITERING MACHINE
William Jacob Knoll, Chicago, Ill., assignor to H. B. Rouse & Company, Chicago, Ill., a corporation of Illinois
Application December 22, 1939, Serial No. 310,583
5 Claims. (Cl. 90—15)



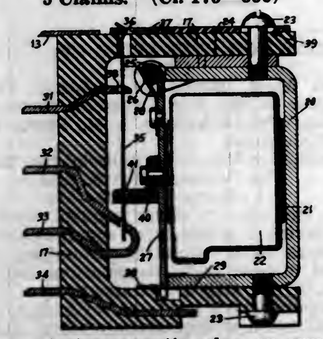
1. In a rule mitering machine, the combination of a cutter, a cross head operatively related thereto and having a channel therein, a jaw slidably carried in said channel, a platen bar extending transversely to said cutter in opposition to said jaw, and resilient means for urging the jaw and bar into clamping relation for clamping a rule therebetween while engaged with the cutter.

2,282,065
ELECTROMAGNETIC DEVICE
Franz Krautwig, Berlin-Steglitz, Germany, assignor to General Electric Company, a corporation of New York
Application June 2, 1939, Serial No. 277,117
In Germany June 3, 1938
8 Claims. (Cl. 175—338)



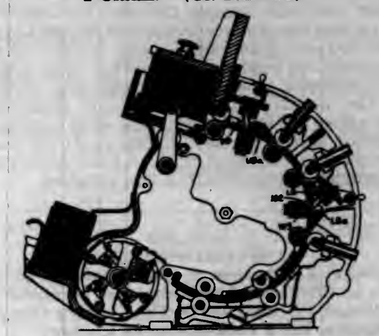
1. An electromagnetic device comprising an armature, a cooperating magnetic member presenting at least three pole faces to said armature, winding means on said member adapted when energized from a single-phase source of alternating current to establish alternating fluxes in the pole faces of said member and in said armature, short-circuited winding means on said magnetic member for effecting a phase displacement between at least two of said fluxes, and means supporting said armature intermediate one of said pole faces and the other pole faces for angular movement so positioned relatively to said pole faces that the resultant torque effect on the armature due to the attractions between the respective pole faces and the armature when the armature is in a predetermined position and said winding means is energized from a single-phase source of alternating current is substantially constant as long as the effective value of said current is substantially constant.

2,282,066
RELAY
Clair D. Lake, Binghamton, and Wesley Pfaff, Union Center, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application September 8, 1939, Serial No. 293,932
5 Claims. (Cl. 175—336)



2. In an electromagnetic relay, an armature, a core, and a supporting structure, said armature having an opening therein, said supporting structure having a pair of spaced openings on the same side of the opening in the armature, with one of said openings lying on the opposite side of a straight line through the other two openings from the core, and a substantially straight spring member for urging the armature away from its core, said spring member being freely insertible through all three openings whereby one side of the central opening will bear against the spring member and cause the member to bear against the opposite sides of the other two openings to urge the armature away from its core, the movement of said armature being limited to obviate full alignment of all three openings.

2,282,067
PRINTING CONTROL MECHANISM
William Lang, New York, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application September 20, 1939, Serial No. 295,717
1 Claim. (Cl. 101—93)

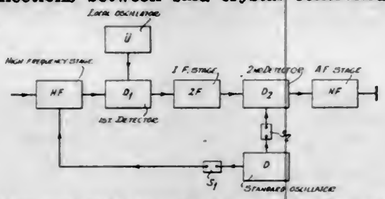


In a printing machine controlled by a record card containing a column having a group of spaced index point positions, and a second group of spaced index point positions intermediate the positions of the first set, in which column a designation may be made in each group to represent two separate items, a separate sensing element for each group of index point positions, comprising two stationary contact brushes spaced in the direction of the card column an amount equal to the distance between adjacent index point positions of the two groups, mechanism for moving the card past the pair of contact brushes, devices for controlling the effectiveness of the contact brushes to cause the same to sense the positions of their respective groups in succession, said brushes simultaneously sensing corresponding positions in the two groups, a pair of printing devices, one for each group of index point positions, and means controlled by said brushes for controlling the pair of printing devices during the sensing of the two groups to effect simultaneous operation of said printing devices when a pair of related positions both contain a designation.

2,282,068
CALIBRATING MEANS FOR A RADIO RECEIVER
Martin Liebau, Berlin-Kopenick, and Heinrich Böck, Berlin-Steglitz, Germany, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application March 15, 1941, Serial No. 383,534
In Germany July 29, 1939
5 Claims. (Cl. 250—20)

1. In a radio receiver of the type which is calibrated so as to indicate the frequency of energy

being received and which includes a local oscillator for converting the received frequency to a predetermined intermediate frequency and a second detector to which the resulting intermediate frequency energy is fed, a crystal controlled oscillator for producing a frequency which is harmonically related to said intermediate frequency and a plurality of harmonics of said frequency, connections between said crystal controlled os-



cillator and said second detector for impressing one of the frequencies generated by said crystal controlled oscillator upon said second detector for providing beat note reception, and connections between said crystal controlled oscillator and the input of the receiver for supplying a wide range of harmonics from said last named oscillator to the receiver input, said last named harmonics serving as a series of accurately known frequencies for calibrating the receiver.

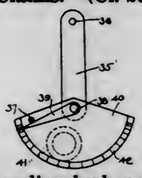
2,282,069

HYDROMETER

Charles E. Linebarger, deceased, late of Chicago, Ill., by Charles E. Linebarger, Jr., administrator, Chicago, Ill., assignor to The Chaslyn Company, Chicago, Ill., a corporation of Illinois

Original application December 23, 1935, Serial No. 55,765. Divided and this application January 25, 1939, Serial No. 252,714

2 Claims. (Cl. 265—45)



1. A direct reading hydrometer of the immersion type, comprising in combination a handle, an arcuate segment pivoted at its apex to one end of the handle and provided with suitable indicia, a pointer fixed to the handle in co-operative relation with said indicia, and a temperature compensating unit carried by said segment for exposure to the liquid under test, said unit being of the expansible bellows type, substantially as described.

2,282,070

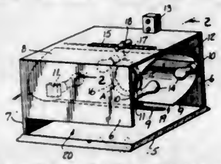
APPARATUS FOR DRYING PAPER AND PAPER PULP SAMPLES

Everett A. Mahannah, Niagara Falls, N. Y., assignor to International Paper Company, New York, N. Y., a corporation of New York

Application August 2, 1940, Serial No. 349,428

4 Claims. (Cl. 34—150)

1. In an oven for drying articles of sheet material, a concave trough reflector secured to one wall of said oven, heat radiating devices located within the concavity of said reflector, and means located in front of said reflector and in spaced relation to said heat radiating devices for supporting the sheet material to be dried, said supporting means being provided with a highly polished generally vertical plane surface opposing



said reflector and to which articles of sheet material will adhere when moist and from which said articles will fall when dry.

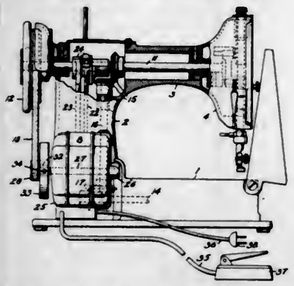
2,282,071

SEWING MACHINE DRIVE

Leonard C. Marsac, Cranford, and David A. Graesser, Elizabeth, N. J., assignors to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application February 19, 1941, Serial No. 379,588

2 Claims. (Cl. 112—220)



1. A motor driving attachment for sewing machines having a frame, a rotary shaft journaled within said frame, and a driven pulley and handwheel mounted upon said rotary shaft, comprising, an electric motor having end-caps and a motor-shaft, said motor-shaft extending through one of said end-caps, a driving pulley having an elongated hub mounted upon the outboard end of said motor-shaft, said driving pulley adapted to be operatively connected to said driven pulley by means of a belt, and a balance-wheel having at least one set-screw, said balance-wheel being secured upon said elongated hub.

2,282,072

MACHINE FOR OPERATING UPON RECORD CARDS

Michael Maul, Berlin-Johannisthal, Germany, assignor to the firm Deutsche Hollerith Maschinen Gesellschaft m. b. H., Berlin-Lichterfelde, Germany

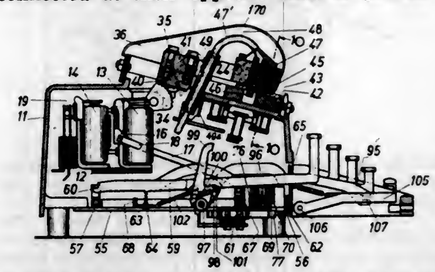
Application May 3, 1940, Serial No. 333,160

In Germany May 6, 1939

4 Claims. (Cl. 73—51)

1. A machine to verify tandem deck record cards having a plurality of superpositioned record decks with similarly extending columns adapted to bear codal designations and having margins which may bear indications of the codal designations which are to be verified; comprising in combination, a designation reading unit adapted to read columns of a deck successively, means to move the card, while supported with the face bearing the marginal indications exposed, transversely of the direction in which the columns extend to place successive columns of a deck in coaction with the reading unit, means mounting

the unit for movement in the direction in which the columns extend to enable the unit to be shifted from a position for coacting with one deck to another position for coacting with another deck of the same card, a keyboard having indication keys operable by an operator facing the exposed face of the card, said reading unit comprising sensing elements and a support therefor and sensing means to coact with the elements in sensing designations of any of the decks with which the unit is in coacting position, a support for the sensing means, said supports being fastened to each other at one end and being unconnected at their opposite ends to provide a



card slot the sides of which straddle the opposite faces of the card, with one said support extending freely over the exposed face of the card and in any of the different selectable deck positions of the unit terminating short of the indication-bearing margin of the deck being verified so as to leave the indications which may be written in said margins visible to the keyboard operator to guide the operator in selecting the corresponding keys for operation, and comparing means jointly controlled by the selected keys and by the coaction of the sensing means and sensing elements for comparing the sensed designations with the indications corresponding to the selected keys.

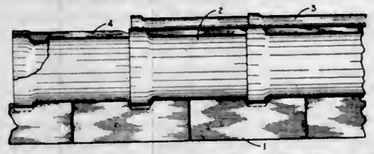
2,282,073

VITREOUS CLAY UNDERGROUND CONDUIT

Albert P. McDonald, Louisville, Ky.

Application January 19, 1939, Serial No. 251,722

5 Claims. (Cl. 138—48)



1. In a conduit system: a base drain; a main conduit section supported on the base drain; and an auxiliary conduit section extending longitudinally along and supported on the upper surface of the main section.

2,282,074

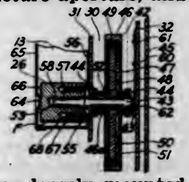
FILM MAGAZINE WITH SOUND DRUM

William E. Merriman, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Original application October 13, 1938, Serial No. 234,809. Divided and this application December 14, 1939, Serial No. 309,212

5 Claims. (Cl. 88—16.2)

1. A film magazine comprising a casing provided with a picture taking aperture and a sound recording aperture, a film strip in said magazine extending from a supply film roll to a take-up roll and past said picture and sound apertures, film guiding means for supporting the film adjacent said picture aperture, and an idler sound



recording drum loosely mounted in said casing opposite the sound aperture for supporting the film opposite said sound aperture and adapted to be rotated solely by the movement of the film strip thereover.

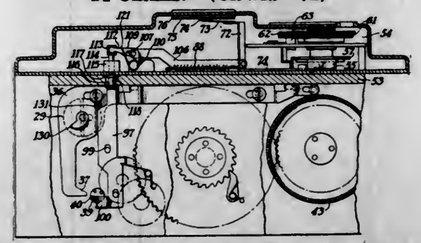
2,282,075

MOTOR DRIVE OPERATING MECHANISM FOR ROLL FILM CAMERAS

Joseph Mihalyi, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application May 3, 1940, Serial No. 333,177

14 Claims. (Cl. 242—71)



1. In a camera, the combination with a camera body, film winding means rotatably mounted on said body, a power drive unit connected to said winding means and adapted to operate the latter to move a film strip through said camera, of a lever slidably mounted on said body and arranged to be moved into and out of locking engagement with said power unit, means including a sliding bar mounted on said body adjacent said lever and adapted to engage said lever both to shift and to hold positively the latter out of locking engagement with said power unit to permit the latter to move said strip, means controlled by said winding means for moving said lever shifting means out of engagement with said lever only after a predetermined length of film has been moved by said winding means, and means for then moving said lever into locking engagement with said power unit to arrest the rotation of said winding means.

2,282,076

WHIRLING SOUND DRUM TOY

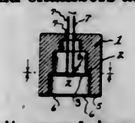
Edmund J. Moddes and Louis Cinelli, Kenosha, Wis.

Application August 4, 1940, Serial No. 351,406

1 Claim. (Cl. 46—52)

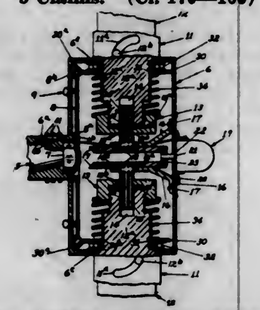
A sound toy comprising a cored drum, the core comprising a plurality of cylinders decreasing in area from the bottom to the top of said drum, each cylindrical portion being intersected by an abrupt transverse shoulder, the uppermost cylinder being provided with a vent aperture, a perforated fibre head secured to the bottom of the drum, a thin vibratory disc secured to the shoulder of the bottom cylindrical

core portion, whereby a single sound chamber is developed at the bottom of the drum to emit sound impulses, and a plurality of gradually diminishing sound chambers are developed above



the disc, to emit sound impulses through the vent aperture, and a whirling strand secured to said disc extending through the drum vent aperture.

2,282,077
CHANGEABLE PITCH PROPELLER UNIT
Hamilton K. Moore, St. Louis, Mo.
Application February 3, 1940, Serial No. 317,048
5 Claims. (Cl. 170—160)



1. In an airplane propeller assembly of the changeable pitch type and including a drive shaft and cylindrical housing axially anchored to the forward end of the shaft, and including propeller blades with shanks oppositely, radially, rotatably and slidably journaled through the cylindrical rim of the housing, the inner ends of the shanks being screw-threaded and axially bored, blade regulator nuts on the inner threaded ends of the shanks, said nuts being formed with laterally disposed spring seats and with shaft bores centrally through their ends; the walls of said bores being fluted axially, splined stub-shafts passed slidably through the fluted bores of the nuts and rotatably and slidably into the aligned bored ends of the blade shanks, annular ball-bearing units freely embracing the blade shanks inside the rim of the housing, coil springs embracing the inner ends of the blade shanks and braced between the spring seats of the regulator nuts and the outer ball bearing units for normally urging the propeller blades inwardly, an electric motor anchored centrally at the front of the housing with its extended shaft journaled therethrough, electrical leads and connections extended from the motor to the control of the pilot, and gear connections between the motor shaft and the said regulator nuts of the blade shanks, whereby the nuts and the slidably associated splined stub-shafts may be rotated for compressing or releasing the springs of the blade shanks to positively urge the propeller blades inwardly as against centrifugal force or permit them to move outwardly under such force.

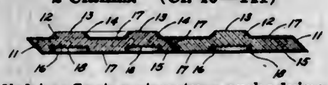
2,282,078
ELECTRICAL HEATING DEVICE
Glen H. Morey, Terre Haute, Ind.
Application September 20, 1940, Serial No. 357,621
9 Claims. (Cl. 219—44)

1. A heating device adapted to receive and support a glass vessel and heat the same, comprising an inner member formed of at least one layer of flexible woven fireproof fabric shaped to conform closely to the exterior of the lower portion of said vessel, a substantially rigid outer supporting member surrounding said inner member but spaced from the vessel contacting portion thereof, means for attaching said inner



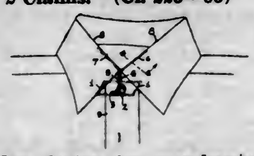
member at the periphery of its vessel-receiving opening to said outer supporting member, an electrical heating element affixed to the woven structure of said inner member in spaced and non-shorting relationship, and resilient heat insulating material interposed between said inner and outer members to provide resilient support for said inner member and for said vessel, and to protect said vessel from mechanical shock.

2,282,079
LIGHT REFLECTING SIGN
James A. Morehead, Huntington, W. Va., assignor to Sinclair Glass Company, Ceredo, W. Va., a corporation of West Virginia
Application November 8, 1940, Serial No. 364,765
2 Claims. (Cl. 40—141)



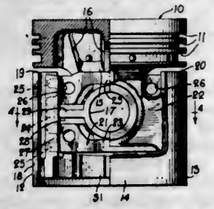
1. A light reflector structure embodying a plate of transparent material, raised indicia formed on the forward face of said plate, inclined sides provided on said indicia, the rear face of said plate having a recessed portion therein complemental to the base of the raised indicia, a plurality of closely nested light reflecting surfaces formed on said plate in the recessed portion, an opaque coating covering the forward face of said plate and terminating at the top of said inclined sides, said light reflecting surfaces disposed under the inclined sides adapted to reflect oblique rays of light transmitted through the top surface of said indicia to increase the area of reflecting surface with respect to the net area of the top surface of the indicia.

2,282,080
SHIRT COLLAR SUPPORT
Jacob Nagdeman, East Chicago, Ind.
Application September 10, 1940, Serial No. 356,195
2 Claims. (Cl. 223—83)



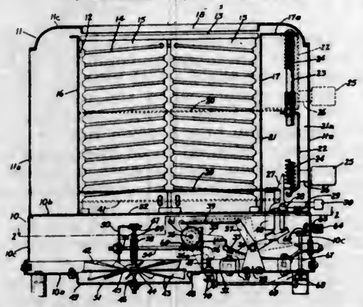
1. A display device for merchantable shirts which comprises a single piece wire base, a vertical projection extending approximately the width of a shirt band from approximately the center of the base, and lateral extensions from the projection, the base being adapted to project beneath the bosom of a shirt and the extensions beneath the collar of the shirt.

2,282,081
PISTON
Adolph L. Nelson, Detroit, Mich., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich., a corporation of Michigan
Application May 2, 1941, Serial No. 391,493
7 Claims. (Cl. 309—11)



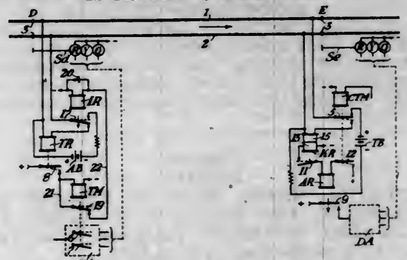
1. In a piston of the type formed of a lightweight piston material and having pin bosses, thrust faces, and a pair of bimetallic elements extending chordally across the piston between the thrust faces, each bimetallic element comprising an inner primary member of material less expansible than the skirt material and an outer primary member of the skirt material, the improvement which comprises: each inner primary member being in the form of an open frame with vertical branches buried in the thrust faces; and modifying members of the skirt material, each modifying member projecting inwardly from an outer primary member into the opening of an inner primary member and being located between a pin boss and a thrust face, each modifying member being homogeneously integral throughout its length with the outer primary member.

2,282,082
COOKING APPARATUS
Heber L. Newell, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Application December 15, 1939, Serial No. 309,428
7 Claims. (Cl. 219—19)



1. Cooking apparatus comprising a casing, a heat-treating chamber within said casing, heating means for said chamber for supplying the cooking heat, said casing being provided with air inlet and outlet openings in the lower and upper portions thereof through which a draft of air is induced to flow by the heat of said apparatus, the velocity of said draft increasing as the temperature of said apparatus increases and decreasing as said temperature decreases, a self-starting timing mechanism constructed and arranged so as to be operated by said air draft, the velocity of said timing mechanism varying with the velocity of said air draft, and hence with the temperature of said apparatus, and means controlled by said timing mechanism for terminating the cooking period responsively to the velocity of said timing mechanism, and hence in accordance with the temperature of said apparatus.

2,282,083
RAILWAY SIGNAL CONTROL CIRCUIT
Frank H. Nicholson, Penn Township, Allegheny County, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application November 30, 1940, Serial No. 367,973
12 Claims. (Cl. 246—38)

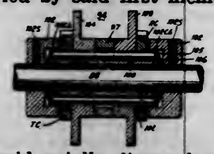


2. In a railway signaling system, the combination of a control circuit which comprises a pair of conductors, means for supplying said conductors with master code energy in the form of recurring "on" period pulses that are separated by "off" period intervals, a code following relay connected with said conductors and operated from a released to a picked up position by and only by each of the said "on" period pulses of master code energy that said connection transmits, a repeater relay energized over a back contact of said code following relay and occupying a released position when the code following relay is picked up but shifting after a slight delay to a picked up position upon each release of the code following relay, a source of feed back energy, an impulse relay which in picking up connects said feed back energy source with said control circuit conductors and which in releasing interrupts that connection, an energizing circuit for said impulse relay which includes a back contact of said code following relay connected in series with a back contact of said repeater relay and over which each release of said code following relay contact momentarily picks up the impulse relay and thereby causes said circuit conductors to be supplied with a pulse of feed back energy during the "off" code period of said release, and traffic governing apparatus controlled by the pulses of said feed back energy which said circuit conductors transmit.

2,282,084
CLUTCH
Harry J. Nichols, Point Pleasant, N. J., and Henry L. Tholstrup, Binghamton, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Original application August 17, 1940, Serial No. 353,113. Divided and this application June 14, 1941, Serial No. 398,070.
2 Claims. (Cl. 192—27)

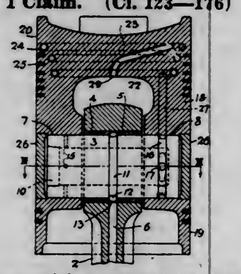
1. In a device of the character described, a

shaft, a start-stop clutch driven by said shaft and including a hollow cylindrical member mounted on said shaft for movement with respect thereto, a pair of counterbored members, axially disposed at opposite ends of said first member and connected to said shaft for rotation therewith, said counterbores being aligned in an axial direction, a plurality of power transmitting members carried by said first member and ex-



tending into said axially disposed counterbores, resilient means between each of said counterbored members and said power transmitting members, a second hollow cylindrical member surrounding a portion of said power transmitting elements, and means controlled by said second member for moving said power transmitting members into and out of engagement with the inner periphery of said counterbored members.

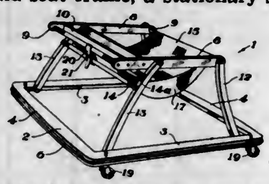
2,282,085
PISTON
William M. Nichols, John W. Anderson, and George K. Aue, Auburn, N. Y., assignors to American Locomotive Company, New York, N. Y., a corporation of New York
Application August 13, 1941, Serial No. 406,610
1 Claim. (Cl. 123—176)



A piston comprising a head having a cylindrical side wall, an impulse-receiving end wall, and piston ring grooves in said side wall arranged in axial sequence below said end wall, one below another; piston rings in said grooves; and a hollow volute cooling pasageway disposed interiorly in said head, with a portion adjacent and radially interiorly of said rings, and another portion above and in axial alignment with said rings between the top ring and said end wall.

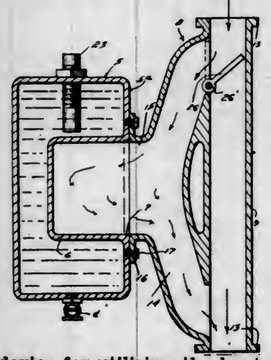
2,282,086
FOLDING WALKER
Leslie Peltier, Delphos, Ohio, assignor to The Delphos Bending Company, Columbus, Ohio, a corporation of Ohio
Application November 9, 1940, Serial No. 365,099
2 Claims. (Cl. 155—22)

1. A foldable baby walker comprising a wheeled base frame having a substantially rectangular opening formed therein, a seat carrying frame having spaced parallel side bars and transversely extending cross bars, spaced pairs of front and rear arcuate supporting legs, the lower ends of said legs being pivotally connected with the base frame and terminated within said opening, the upper ends of the front pair of legs being pivotally connected with the side bars of the seat frame at positions intermediate the length of the side bars so that the forward ends of said bars project in advance of the front pair of legs, the upper ends of the rear pair of legs being spaced and pivotally connected with the rear ends of the side bars of the seat frame, a flexible seat structure suspended from the cross bars of said seat frame, a stationary stop device



carried by the front pair of said legs and engageable with the under side of the forwardly projecting end of the seat frame, and a releasable securing fastener for connecting the forward part of the seat frame with said front pair of legs, said legs and seat frame folding into the confines of the rectangular opening of the base frame when the walker occupies its collapsed position.

2,282,087
AUTOMOBILE HEATER
Juan N. Peña, Las Vegas, N. Mex.
Application February 27, 1941, Serial No. 380,938
2 Claims. (Cl. 257—241)



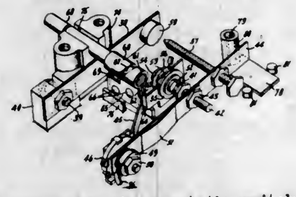
1. In a device for utilizing the heat of the exhaust gases of an internal combustion engine for supplementing the normal heat of the water in the cooling system when the water is being supplied to the radiator of an automobile heater, the combination of a bracket having a tubular conduit part adapted to be interposed in the connection between the exhaust manifold and exhaust pipe of an internal combustion engine to provide a through passage from the exhaust manifold to the exhaust pipe, and a casing embodying a water-receiving chamber adapted to be connected in the cooling system of an internal combustion engine between such system and the radiator of an automobile heater, said casing having a recess in one wall of a depth to extend inwardly beyond the center of the casing to form an internal heating chamber; said bracket having an integral formation substantially curved in the direction of the length of the aforementioned tubular conduit part of the bracket and provided throughout its length with a bore adapted to serve as a by-pass for exhaust gases and opening at its respective opposite ends laterally into the said tubular conduit part of the bracket; said formation intermediate the respective opposite ends thereof being provided with a flanged neck aligning with the recess of said heating chamber and secured to the edges of said recess to admit exhaust gases from the by-pass into the chamber.

2,282,088
CHLORACRYLIC ESTERS
Maxwell A. Pollack, Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
No Drawing. Application June 12, 1940, Serial No. 340,121
16 Claims. (Cl. 260—83)

4. An unsaturated alcohol ester of alpha chloracrylic acid.

5. A polymer of an unsaturated alcohol ester of alpha chloracrylic acid.

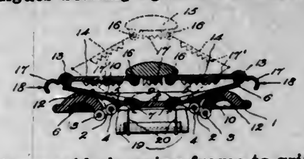
2,282,089
ELECTRIC APPLIANCE
August A. Propernick, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application March 29, 1940, Serial No. 326,719
2 Claims. (Cl. 200—138)



1. An adjustable thermostatic switch comprising a temperature responsive element adapted to deflect in accordance with temperature changes thereof, a pair of contact members, a resilient arm for supporting one of said contact members so that it is relatively movable with respect to the other contact members, means on said resilient arm adapted to be engaged by said temperature responsive element so that said arm is moved in accordance with the deflection of said element to cause said contact members to be operated to a different circuit controlling position, a hairpin-shaped member having a slotted curved portion and a pair of leg portions, means for securing said contact members to said leg portions, a rotatably mounted shaft extending through said curved portion, a pin on said shaft adapted to cooperate with the slot in said curved portion so that rotation of said shaft will cause translation of said hairpin-shaped member and move said contact members closer to or farther away from said temperature responsive element whereby the temperature setting of said switch may be varied.

2,282,090
CORSAGE HOLDER
Albert J. Pujol, Astoria, Long Island, N. Y., assignor to Cartier, Inc., New York, N. Y., a corporation of New York
Application August 16, 1940, Serial No. 352,847
5 Claims. (Cl. 24—6)

1. A corsage holder comprising a clamping frame formed from a plurality of links pivoted to one another, one of said links having lugs projecting beyond the pivotal connection with adjacent links and said adjacent links having spring tongues bearing against said lugs to nor-

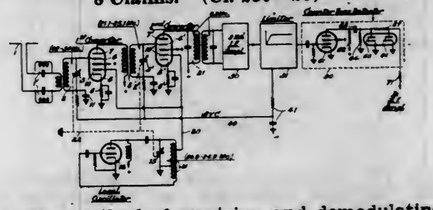


mally collapse said clamping frame to grip flower stems passing therethrough, and means for attaching the clamping frame to a garment.

2,282,091
PROCESS FOR PREPARING CALCINED GYPSUM
Oliver F. Redd, Wellsville, Ohio
No Drawing. Application October 17, 1938, Serial No. 235,505
3 Claims. (Cl. 23—122)

1. The process of preparing plaster of Paris which comprises feeding dry calcined gypsum containing slightly more water than necessary for the formation of calcium sulphate hemi-hydrate into a jacketed tube mill, grinding the gypsum in said mill while maintaining the temperature within the mill between 230° F. and 350° F., by external heating, removing air from the mill by introducing steam therein and maintaining the vapor pressure within the mill at not more than approximately five pounds above atmospheric.

2,282,092
FREQUENCY MODULATION RECEIVER
Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 26, 1941, Serial No. 385,246
8 Claims. (Cl. 250—20)



8. The method of receiving and demodulating timing modulated waves which comprises generating local oscillations whose frequency is half the difference between the mean frequency of said waves and a constant frequency which constant frequency is greater than, but only a few times greater than, the maximum frequency deviation of said waves, combining said oscillations with said waves to produce waves of a first intermediate frequency, combining said same oscillations with said first intermediate frequency waves to produce waves of a second intermediate frequency whose mean frequency is said constant frequency, and utilizing said second intermediate frequency waves to produce signals represented by the frequency modulation of said first named waves.

2,282,093
LOCOMOTIVE VALVE AND VALVE GEAR
Harry J. Sherrill, Youngstown, Ohio
Application September 25, 1941, Serial No. 412,234
6 Claims. (Cl. 121—163)

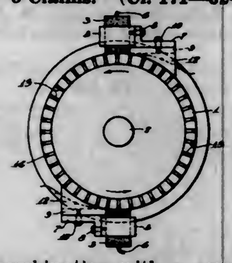
1. A steam control mechanism for a steam

engine having a driven rotatable member, and a driven reciprocable member, comprising steam admission and exhaust valves and a combination lever adapted to impart movement to the same and deriving motion at its lower end portion from said reciprocable member and its upper end from the said rotatable member, a reciprocable pivotly supported bracket for supporting said reciprocable member, means providing a connection be-



tween the said pivotly supported bracket and the lower end portion of the said combination lever, said means including a pinion gear adapted to engage a stationary rack, a crank rotated by said pinion gear and means connecting the said crank to the said lower end of the combination lever, together with two pairs of oppositely disposed poppet valves actuated by the movement of the said combination lever.

2,282,094
METHOD AND APPARATUS FOR PROLONGING THE LIFE OF ELECTRIC BRUSHES
Erle I. Shobert, II, St. Marys, Pa., assignor to Stackpole Carbon Company, St. Marys, Pa., a corporation of Pennsylvania
Application September 24, 1941, Serial No. 412,134
8 Claims. (Cl. 171—324)



8. The combination with a commutator having segments separated by circumferentially spaced slots, and an electric brush contacting the commutater, of an air deflecting and conducting member extending away from the entering side of the brush and having laterally spaced side walls substantially engaging said commutator, whereby a stream of air is directed against the contact surface of the commutator where it starts to engage the brush, and means filling the end portions of said slots to prevent said air from escaping from between said side walls.

2,282,095
RETRIEVING DEVICE FOR PIPES IN DEEP WELLS
Thomas Smith, Columbus, Ky.
Application July 26, 1941, Serial No. 404,250
6 Claims. (Cl. 294—96)

1. A device of the character described comprising an annular mandrel enlarged exteriorly at its lower part for wedging action and having a coaxial shank extended therefrom at its reduced portion, longitudinally arranged slip members beside the shank and connected for simultaneous movement longitudinally along the mandrel, a sleeve device constructed and arranged to enclose the mandrel and slip members when in retracted position, a hoist means connected with the mandrel, and separate support means con-



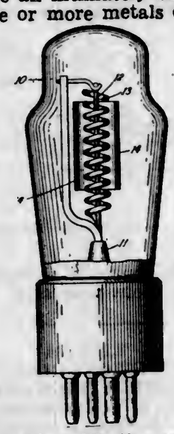
nected with the sleeve and adapted to permit downward movement of the latter around the mandrel and the slip members when the latter are moved on a vertical axis.

2,282,096
GRINDER
Henry H. Talboys, Milwaukee, Wis., assignor to Nordberg Manufacturing Company, Milwaukee, Wis.
Application January 9, 1941, Serial No. 373,757
4 Claims. (Cl. 51—209)

1. A grinder of the character described comprising, a face plate, an annular abrasive wheel having parallel ends, one of said ends abutting said face plate, an outwardly sloping peripheral shoulder on said abrasive wheel adjacent said face plate, and a plurality of fingers engaging the periphery of said shoulder and attached to said face plate to secure the abrasive wheel thereon.

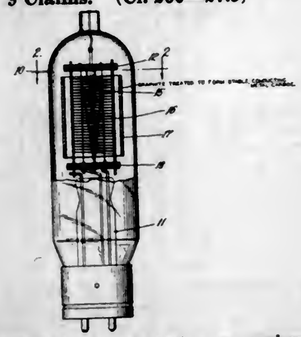
2,282,097
NONEMITTING ELECTRODE STRUCTURE
Warren G. Taylor, Chicago, Ill.
Application March 29, 1940, Serial No. 326,584
3 Claims. (Cl. 250—177)

1. A space discharge device having a thoriated incandescible cathode and a non-emitting electrode having a core of the group tungsten and molybdenum, said core having as a cover over its entire surface an intimately bound thin surface layer of one or more metals of group eight



of the periodic table with the outer surface of said layer carbonized.

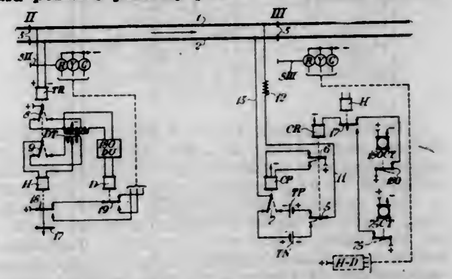
2,282,098
CARBON ELECTRODE
Warren G. Taylor, Chicago, Ill.
Application October 17, 1940, Serial No. 361,470
9 Claims. (Cl. 250—27.5)



1. The method of processing a carbon electrode which consists in treating said carbon with a solution of a metallic compound, and then heating the treated carbon in a reducing atmosphere to a high temperature, said metal being one to form a stable electrically conductive carbide.

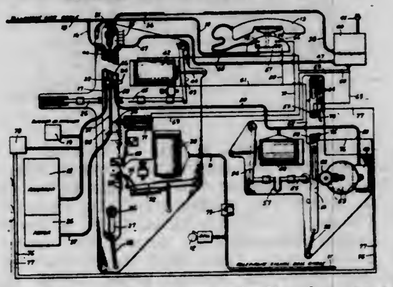
2,282,099
CODED TRACK CIRCUIT FOR RAILWAY TRAFFIC CONTROL
Howard A. Thompson, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application September 27, 1941, Serial No. 412,624
14 Claims. (Cl. 246—34)

1. In combination, a control circuit that includes a pair of conductors which normally are capable of transmitting energy between given and opposite ends of the circuit but which at times are rendered incapable of such transmission, a source of positive polarity energy and a source of negative polarity energy at the given end of said circuit, a coding device which repeatedly connects said circuit conductors first to said positive polarity source and then to said negative polarity source and thereby produces a control code made up of recurring pulses of positive polarity energy which are separated by intervening pulses of negative polarity energy, a repeater relay for said coding device which with a brief delay responds to each of the said conductor-to-source connections that said device establishes, a contact of said repeater relay which interrupts each of said conductor-to-source connections early in the code period that the connection defines and which thereby causes all of said positive polarity pulses to be much shorter



than the recurring code periods during which they occur and all of said negative polarity pulses to be much shorter than the intervening code periods during which they occur, a code following relay connected with said conductors at the opposite end of said circuit and operated by the said shortened pulses of polarized control code energy that are there received, and apparatus controlled by said code following relay and distinctively responsive according as that relay is or is not following code.

2,282,100
CONTROLLER FOR TELEPHONIC RECORDING
Morris Thompson, Nyack, N. Y.
Application December 7, 1940, Serial No. 369,005
19 Claims. (Cl. 179—5.5)



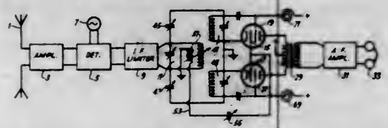
1. A message receiving controller for use at a subscriber station for controlling the reception of telephonic messages over a telephone line circuit comprising a message receiver, a second message receiver at the same subscriber station, switch means having engageable contacts for connecting said second named message receiver in circuit with the telephone line circuit, time controlled means for operating said switch means for causing same to connect said second message receiver in circuit with said telephone line circuit so that it can receive signal current from the line circuit, and means for automatically rendering said time controlled means inoperative to close said engageable contacts upon connection of said first message receiver in said telephone line circuit.

2,282,101
DETECTION OF FREQUENCY MODULATED WAVES

Harry Tunick, Rye, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Original application December 22, 1939, Serial No. 310,495. Divided and this application October 16, 1940, Serial No. 361,413

8 Claims. (Cl. 250—27)



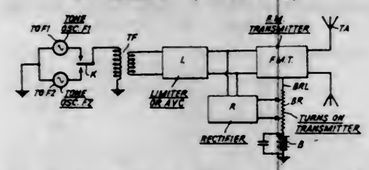
1. In combination, a pair of electron discharge systems each having an input electrode and an output electrode, a pair of parallel tuned circuits connected to and between said input electrodes of said systems, said parallel tuned circuits being tuned to opposite sides of a mean operating frequency, a source of frequency modulated waves, means for feeding frequency modulated waves from said source to said parallel tuned circuits, said circuits serving to convert frequency modulation to amplitude modulation, a circuit connected to and between said output electrodes for taking modulation frequency energy from said output electrodes of said systems, and additional means for feeding frequency modulated waves from said source cophasally to like input electrodes of said systems.

2,282,102
SIGNALING

Harry Tunick, Rye, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application December 12, 1940, Serial No. 369,800

10 Claims. (Cl. 250—8)



1. In combination, a pair of sources of tone waves, means for selectively keying the tone waves in accordance with signals to be transmitted, means for maintaining said keyed tones at a constant pre-determined level, a frequency modulation transmitter, means for frequency modulating waves from said transmitter in accordance with the leveled keyed tones, means for feeding the frequency modulated waves from the transmitter to a transmitting antenna, and means for cutting off carrier frequency energy from said antenna in the absence of keyed tones.

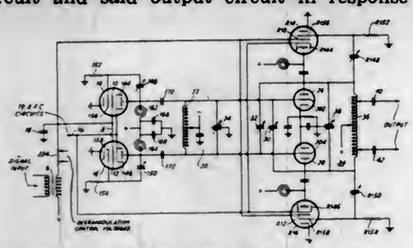
2,282,103
FREQUENCY MODULATION

Harry Tunick, Rye, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application August 29, 1941, Serial No. 408,738

7 Claims. (Cl. 179—171.5)

1. An oscillation generator having a resonant input circuit and a separate resonant output circuit independent of said resonant input circuit, a source of modulating waves, and means for simultaneously varying the resonance of said input circuit and said output circuit in response to



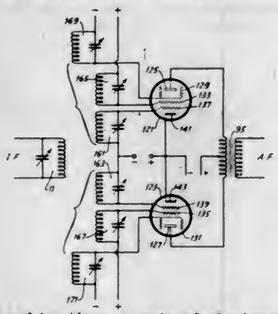
waves from said source to thereby vary the frequency of oscillations generated.

2,282,104
RECEPTION OF ANGULAR VELOCITY MODULATED WAVES

Harry Tunick, Rye, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application October 16, 1940, Serial No. 361,413, which in turn is a division of application Serial No. 310,495, December 22, 1939. Divided and this application November 29, 1941, Serial No. 420,954

3 Claims. (C. 250—27)



1. In combination, a pair of electron discharge systems each having an anode, a cathode and a multiplicity of grids, a series of parallel tuned circuits tuned to one side of a desired operating frequency connected between electrodes of one of said systems, another series of parallel tuned circuits tuned to a frequency on the opposite side of said mean frequency connected to electrodes of the other of said systems, means for feeding frequency modulated waves to said parallel tuned circuits, and means for deriving from said electrodes of said systems demodulated frequency modulated waves.

2,282,105
DETECTION OF FREQUENCY MODULATED WAVES

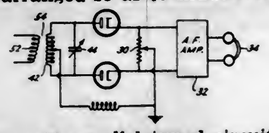
Harry Tunick, Rye, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Original application October 16, 1940, Serial No. 361,413. Divided and this application December 5, 1941, Serial No. 421,729

3 Claims. (Cl. 250—27)

1. A detecting system for angular velocity modulated waves comprising a parallel tuned circuit, a pair of rectifiers having their input electrodes connected to opposite terminals of said parallel tuned circuit, a circuit connecting the

output electrodes of said rectifiers in opposition, said parallel tuned circuit consisting of a coil and a condenser connected in parallel, and an input coil for feeding angular velocity modulated waves to said parallel tuned circuit, said input coil being arranged so as to inductively transfer



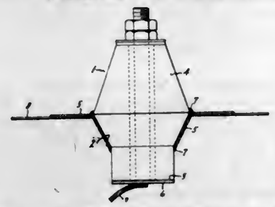
energy into said parallel tuned circuit and also to transfer energy capacitively into said parallel tuned circuit by virtue of the arrangement of said coils whereby said coils at certain portions thereof are in closer proximity to each other than at other portions thereof.

2,282,106
CERAMIC-TO-METAL SEAL

James W. Underwood, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application July 14, 1939, Serial No. 284,481

6 Claims. (Cl. 113—112)



1. The method of forming a seal between a ceramic body and a metal body which comprises coating the ceramic body with a minor portion of a glaze, which is substantially unaffected by a reducing atmosphere and which consists, by weight, of about 36 parts feldspar, 30 parts flint, 15 parts whiting, 13 parts clay, and 5 parts chromium oxide, and a major portion of a refractory metal in powder form, heating the coated ceramic body in a reducing atmosphere to a temperature above the fusing point of said glaze to produce an integral tightly-adhering metal layer on the surface of said ceramic body, and soldering the metal-coated ceramic body to said metal body.

5. In combination, a ceramic body having a metallic glazed surface coating consisting of a major portion of finely-divided tungsten particles embedded in a minor portion of fired glaze consisting, by weight, of about 36 parts feldspar, 30 parts flint, 15 parts whiting, 13 parts clay, and 5 parts chromium oxide; and a metal body joined to the glazed surface of said ceramic body by means of solder.

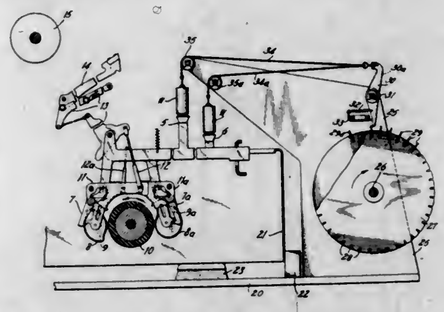
2,282,107
TYPEWRITER DISPLAY DEVICE

Thomas J. Watson, Jr., New York, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application December 31, 1940, Serial No. 372,474

4 Claims. (Cl. 197—19)

1. A display device for demonstrating the ease of operation of a typewriter key or the like comprising, in combination, a weight of known value just capable of operating said key if placed at rest on said key, a rocker lever connected to said weight by a wire, means for movably mounting the weight over the key so that rocking movement of the lever causes vertical movement of the weight, a spring connected to the lever for biasing said lever to a normal position and the weight to a raised position, a revolving disk, a cam element carried by said disk for engaging the rocker lever in the course of rotation of the



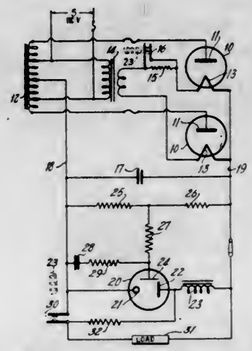
disk to impart a controlled movement to the lever, thereby causing the weight to drop slowly into position to rest on the key and to operate the latter, the cam element then releasing the lever for relatively rapid restoration by the spring to effect a quick return of the weight to its raised position.

2,282,108
TIME DELAY CIRCUIT

Otto Weitmann, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

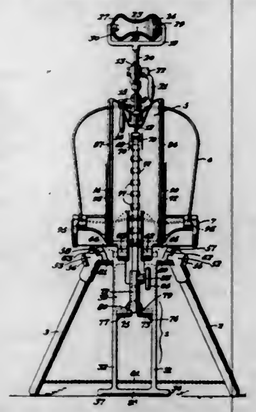
Application November 20, 1940, Serial No. 366,416

4 Claims. (Cl. 250—27)



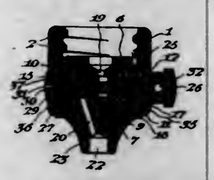
1. In combination, an electric translating circuit, an electron discharge device provided with an anode and a thermionic cathode, means including a source of potential for rendering the device conductive, means for connecting the anode-cathode circuit of said device in said translating circuit, cold cathode discharge means connected to said anode-cathode circuit for controlling the operation of said connecting means, means responsive to the conductivity of said electron discharge for controlling the conductivity of said cold cathode discharge means, and means for disconnecting the cold cathode discharge means from said anode-cathode circuit upon operation of the connecting means to connect the anode-cathode circuit in said translating circuit.

2,282,109
FOLDING CHAIR
Robert C. Angell, Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company, a corporation of Pennsylvania
Application October 5, 1939, Serial No. 297,990
6 Claims. (Cl. 155—25)



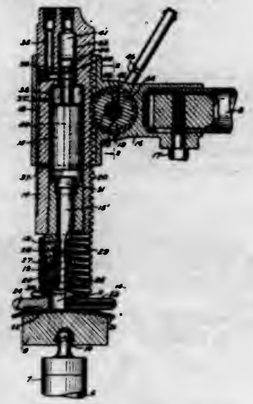
2. A folding chair comprising a backrest having grooves extending longitudinally thereof, a backrest supporting slide-bar having slide rails movably engaged in said grooves and upon which said backrest may be adjusted up and down, a seat connected with said backrest and having a detent engageable with means on said slide-bar to maintain the backrest and seat in different adjusted relation to said slide-bar, and collapsible means arranged to support said slide-bar.

2,282,110
FLUID DISPENSER
Robert C. Angell, Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company, a corporation of Pennsylvania
Application January 17, 1941, Serial No. 374,856
3 Claims. (Cl. 221—105)



1. A fluid dispensing closure cap providing a fluid-tight closure for a fluid container and comprising a body provided with a fluid ejecting spout and including relatively separated non-alined inlet and outlet passageways communicating with a transverse bore extended through said cap, a valve plug arranged to reciprocate in said bore and having a unitary threaded stem, a cap nut having a restricted threaded bore, cooperative with said stem and adjustable thereon to provide a fluid measuring chamber of varying dimensions arranged to alternately register with the inlet and outlet passageways, and an abutment plug arranged to limit relatively opposed movements of said valve plug and cap nut, being disposed wholly within said bore remote from the ends thereof and in engagement with the threads therein.

2,282,111
METAL STRAIGHTENER
Wendell K. Beckwith, Milwaukee, and William H. Lieber, Wauwatosa, Wis., assignors to Milwaukee Electric Tool Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application January 2, 1941, Serial No. 372,734
8 Claims. (Cl. 153—48)



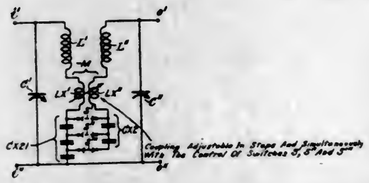
1. In combination, a portable frame, an anvil die tiltably mounted upon said frame, a fluid actuated hammer bodily adjustable toward said anvil die and having a cylinder adjustably suspended from said frame and an impact piston reciprocable in said cylinder, tiltable work clamping means interposed between said cylinder and said anvil, and a tiltable hammer die also interposed between said anvil and said cylinder, said piston being operable to deliver successive impacts to said hammer die and the latter being freely axially movable relative to said cylinder and said anvil die between impacts.

2,282,112
METHOD FOR MAKING THE CONTAMINATED WATER FROM ALKALINE PULP MILLS HARMLESS
Hilding Olof Vidar Bergström and Karl Gustav Trobeck, Stockholm, Sweden
No Drawing. Application February 17, 1940, Serial No. 319,478. In Finland February 20, 1939
3 Claims. (Cl. 210—2)

1. The method of removing water polluting substances from pulp mill waste water, which comprises bringing said waste water into intimate contact with a gaseous fluid and thereby volatilizing such substances, removing the volatilized substances with said gaseous fluid, and adding to said waste water a member of the group consisting of hydrates and carbonates of alkaline earth metals effective to reduce foaming caused by treatment of said waste water with said gaseous fluid.

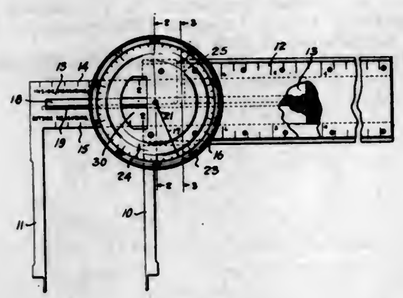
2,282,113
BAND-PASS FILTER
Joseph Douglas Brailsford, London, England, assignor to Radio Corporation of America, a corporation of Delaware
Application May 15, 1940, Serial No. 335,210
In Great Britain May 16, 1939
3 Claims. (Cl. 178—44)

1. A variable band pass filter network comprising a pair of resonant circuits, the first including a pair of reactances of opposite sign and a plurality of additional series-connected reactances all connected in a closed circuit, the second circuit including a similar pair of reactances of opposite sign and a plurality of additional series-connected reactances, switch means between corresponding tapping points between



the sets of additional reactances so constructed and arranged that depending upon the selective closure of a particular switch means the resonant circuits are reactively coupled to different degrees without altering the natural resonant frequency of each circuit, means providing magnetic coupling between the pair of resonant circuits, and means for simultaneously varying in steps said reactive and magnetic couplings.

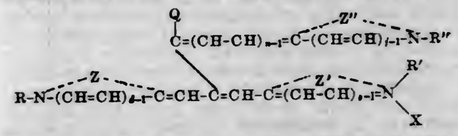
2,282,114
MICROMETER CALIPERS
Jess Willard Brister, Alexandria, La.
Application February 7, 1941, Serial No. 377,899
2 Claims. (Cl. 33—147)



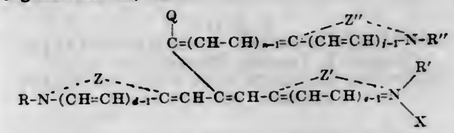
1. In a measuring device of the character described, a frame member, a beam member slidingly mounted therein having a scale, measuring jaws carried by the beam and frame member respectively and adapted to be manually moved to engage an object to be measured, said beam having a longitudinal beveled portion, and means for retaining said beam in any desired adjusted position, comprising a brake member having an inclined face adapted to engage the beveled portion of said beam, and means for reciprocating said brake member into and out of engagement with the beveled portion of said beam, said beam being longitudinally slotted intermediate its ends, and the beveled portion being formed at one of the edges of the slot, a dial carried by said housing member, a screw and pinion mounted within the slotted portion of the scale member, and an indicator coacting with said dial and rotatable with said pinion.

2,282,115
TRINUCLEAR POLYMETHINE DYES
Leslie G. S. Brooker and Frank L. White, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application December 16, 1939, Serial No. 309,686. In Great Britain March 7, 1939
11 Claims. (Cl. 260—240)

1. A trinuclear dye characterized by a general formula selected from the group consisting of:



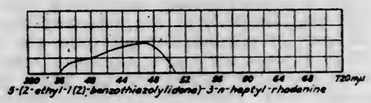
wherein *d*, *e*, *j* and *n* each represent a positive integer of from one to two, Q represents a substituent selected from the group consisting of hydrogen and alkyl groups, R, R′ and R″ represent alkyl groups not more than two of which alkyl groups are identical, X represents an acid radical, and Z, Z′ and Z″ represent the nonmetallic atoms necessary to complete heterocyclic organic nuclei, and



wherein *d*, *e*, *j* and *n* each represent a positive integer of from one to two, Q represents a substituent selected from the group consisting of hydrogen and alkyl groups, R, R′ and R″ represent alkyl groups, X represents an acid radical, and Z, Z′ and Z″ represent the non-metallic atoms necessary to complete a heterocyclic organic nuclei not more than two of which nuclei are identical.

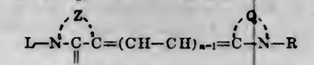
8. A process for preparing a trinuclear polymethine dye comprising condensing, in the presence of an acid-binding agent, a carbocyanine dye containing an alkyl group on the central carbon atom of the trimethine chain, with an organic compound selected from the group consisting of cyclammonium quaternary salts containing, in a reactive position, a substituent selected from the group consisting of alkylmercapto groups, arylmercapto groups, aryloxy groups, halogen atoms and β-arylaminovinyl groups.

2,282,116
PHOTOGRAPHIC ELEMENT
Leslie G. S. Brooker, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application March 1, 1940, Serial No. 321,730
In Great Britain April 14, 1939
9 Claims. (Cl. 95—7)

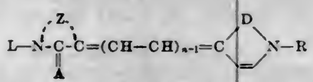


1. A photographic element comprising a photographic silver halide emulsion which is sensi-

tized with a sensitizing dye characterized by one of the following two formulas:



and



wherein A represents an atom selected from the group consisting of oxygen and sulphur atoms, D represents a radical selected from the group consisting of vinylene and phenylene groups, *n* represents a positive integer of from one to three, L represents a long-chain organic group comprising a chain of at least seven non-metallic members, Q represents the non-metallic atoms necessary to complete a heterocyclic nucleus selected from the group consisting of five-membered and six-membered heterocyclic nuclei, R represents an alkyl group, and Z represents the non-metallic atoms necessary to complete a 2-thio-2,4(3,5)-thiazoledione nucleus, a 2-thio-2,4(3,5)-imidazoledione nucleus, and a 2-thio-2,4(3,5)-oxazoledione nucleus.

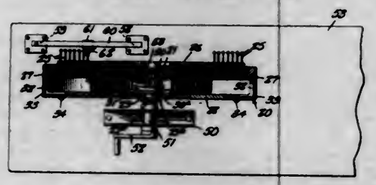
2,282,117

DAYLIGHT LOADING FILM RECEPTACLE

Edward E. Cassidy, Washington, D. C.

Application March 28, 1940, Serial No. 326,484

4 Claims. (Cl. 242—55)



1. A reel for holding an elongate strip of sheet material comprising a supporting disc mounted for rotation about an axis perpendicular to the center of the disc; a spaced light-tight non-rotating closure covering one side of the disc and mounted thereon, said closure having a film passage formed in a marginal portion thereof; angularly spaced rows of radially spaced pins slidably mounted in said disc for movement from position projecting from the exterior face of said disc to position projecting from the interior or enclosed face of said disc; and means for simultaneously rotating said disc and pressing the pins inwardly in spiral succession.

2,282,118

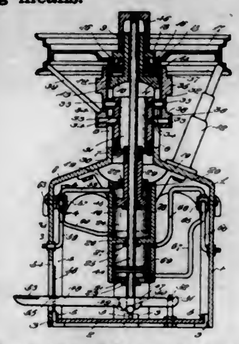
WHEEL STRAIGHTENER

Lawrence M. Daniel, Spokane, Wash.

Application January 16, 1941, Serial No. 374,762

9 Claims. (Cl. 153—48)

1. In a wheel straightener, a support, a neck and stem carried by said support for rotatably mounting a wheel, means associated with and movable longitudinally of the neck and the stem into and out of position for clamping the wheel stationary against the end of the neck, manually actuated operating means for the wheel securing means, fluid actuated operating means for the wheel securing means, fluid operated means associated with the neck and movable longitudinally thereof into position for applying straightening force to a wheel held stationary at the end of the neck, and valves for controlling operation of the wheel securing means and the straightening means.



3. In a wheel straightener, a support, means carried by said support for rotatably mounting a wheel at the upper end of the support, a rod shiftable longitudinally through the wheel mounting means, a wheel engaging member carried by said rod and movable therewith into and out of position for clamping the wheel against the upper end of the support and securing the wheel stationary, fluid operated means for shifting said rod, fluid operated means carried by said support concentric to the rod and shiftable longitudinally of the rod for applying straightening forces to a wheel, and valves for controlling operation of the rod shifting means and the straightening means.

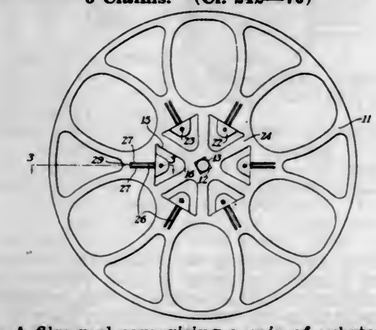
2,282,119

FILM REEL

Harry R. Darling, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application June 20, 1941, Serial No. 398,945

5 Claims. (Cl. 242—70)



1. A film reel comprising a pair of substantially identical side plates formed with central aligned openings adapted to receive a spindle; and portions surrounding said openings and integral with said side plates for engaging said spindle, hub forming sections stamped from each of said plates radially of said portions and extending inwardly from the inner surface of the plate to abut aligned sections of the other plate to form a hollow hub and to space said plates, a tab formed at the inner end of certain of said sections and extending radially inwardly therefrom to overlie a tab formed on an opposite section, and means independent of said portions for individually connecting the overlying tabs to retain the reel in assembled relation.

2,282,120

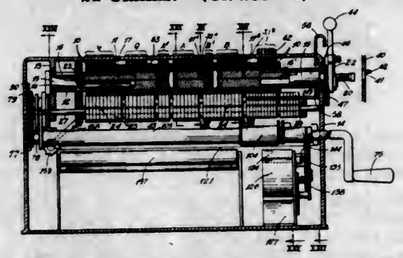
CASH REGISTER

Marcel Demeulenaere, Brussels, Belgium

Application April 18, 1935, Serial No. 17,119

In Belgium January 26, 1935

21 Claims. (Cl. 235—2)



1. In a cash register, a plurality of totalizers each including a plurality of annular discs, a rotatable and axially movable drive member arranged within the discs, selector means, and engaging means for the discs of each totalizer, the several means being effective to selectively establish a driving connection between the discs of any of said totalizers and said drive member through the related engaging means.

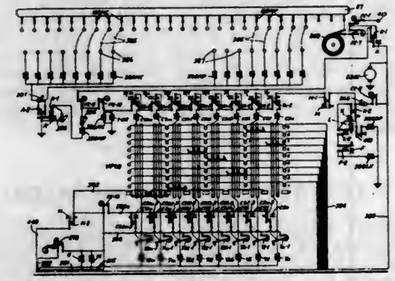
2,282,121

MULTIPLYING MACHINE

Benjamin M. Durfee, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application December 22, 1939, Serial No. 310,558

1 Claim. (Cl. 235—61.8)



In a multiplying machine controlled by differentially timed impulses, a multiplier receiving device having a 6's carry mechanism between the denominational order elements thereof to raise a multiplier digit value by one when the value entered in the next lower order exceeds 5, means for entering a multiplier amount therein, a multiplicand receiving device, means for entering a multiplicand amount therein, partial product receiving devices, a first emitter for emitting a series of impulses representative of digits, a second emitter for emitting a series of impulses representative of the complements of digits, a plurality of partial product impulse selecting switches, one for each of the digits 1 to 5, each arranged to select, jointly with said multiplicand receiving device, for control of said partial product receiving devices, impulses from either of said series of impulses in accordance with the multiplication of the multiplicand by the related multiplier digit, whereby either representations of true or complementary partial products will be entered into said partial products receiving devices, means controlled by said multiplier receiving device for each digit of the multiplier in succession, operative when the value of a digit is from 1 to 5 for rendering the related switch and the first emitter effective to control impulse transmission from the first emitter to the product receiving devices, and when the digit is from 6 to 9 for rendering the switch corresponding to the tens complement of the digit and the second emitter effective to control impulse transmission from the second emitter to said product receiving devices.

2,282,122

SHOCK ABSORBER FOR THE BALANCE STAFF OF WATCHES

Gérard Erismann, Neuveville, Switzerland

Application October 7, 1940, Serial No. 360,181

In Switzerland October 30, 1939

5 Claims. (Cl. 58—140)



1. In a watch, a balance staff, a jewel adapted to hold said balance staff pivotally, a balance cock comprising a flat part, a hollow on said flat part, a setting lodged in said hollow, an elastic arrangement forming a whole with said setting, a ring disposed in the center of said elastic arrangement forming a whole with said jewel, a cap-jewel, a second setting placed on said setting, a second elastic arrangement made in one piece with said second setting and adapted to press against said cap jewel.

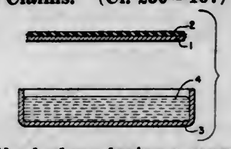
2,282,123

MOSAIC SCREEN

Sanford F. Essig, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware

Application January 23, 1941, Serial No. 375,660

4 Claims. (Cl. 250—167)



1. The method of producing a mosaic electrode of discrete metallic particles, comprising the steps of producing a metallic film on a surface of a foundation, exposing said film to the vapor of a metal different from that of said film, and heating said film after exposure to said vapor to cause its disruption into discrete particles.

2,282,124

PRODUCTION OF IRON FROM IRON OXIDE

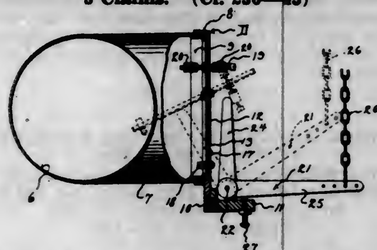
Frank A. Fahrenwald, Chicago, Ill.; Marjorie P. Fahrenwald, executrix of said Frank A. Fahrenwald, deceased

No Drawing. Application March 8, 1941, Serial No. 382,336

3 Claims. (Cl. 75—34)

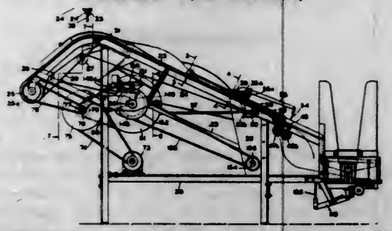
1. The method of manufacturing sponge iron from mill scale which comprises heating the mill scale at high temperatures and agitating the heated mill scale in contact with air, to increase its oxidation to the maximum corresponding to the chemical formula Fe_2O_3; and subsequently deoxidizing the fully oxidized material by high temperature contact with hot hydrogen; the iron oxide being kept in a quiescent condition during such reduction.

2,282,125
FURNACE CONTROL
Welton E. Firehammer, Oshkosh, Wis., assignor to Wisconsin Heating and Draft Control Company, Oshkosh, Wis.
Application November 20, 1939, Serial No. 305,251
3 Claims. (Cl. 236—45)



1. In a furnace control, a flue pipe for the furnace having a laterally extending check draft opening, a ringlike frame surrounding said opening, a damper gate rockably mounted eccentrically between its top and bottom in said ringlike frame for free swinging movement, whereby said damper gate is responsive to draft conditions in said flue pipe, and means for positively opening said damper gate, said means including an operating lever rockably mounted on said ring-like frame for engaging said damper gate to open the same and normally disengaged from the damper gate to permit free movement thereof responsive to draft conditions.

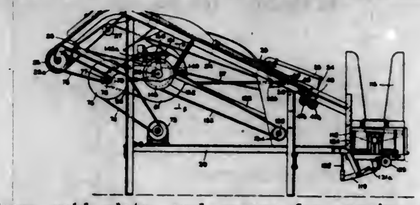
2,282,126
FOLDING AND STACKING MACHINE
Hugh W. Gabbert, Norwood, Ohio, assignor to The American Laundry Machinery Company, Norwood, Ohio, a corporation of Ohio
Application June 24, 1940, Serial No. 342,045
6 Claims. (Cl. 270—66)



1. Folding apparatus comprising an article conveyor, a folding plate arranged in the path of article movement for folding a side portion of said article over upon another portion of said article along a line substantially parallel to the path of article movement, a plate independent of the folding plate and adapted to ride upon said folded portion of the article, and said riding plate having a longitudinal edge bent to at least partially embrace said article along said fold line.

2,282,127
STACKING MACHINE
Hugh W. Gabbert, Norwood, Ohio, assignor to The American Laundry Machinery Company, Norwood, Ohio, a corporation of Ohio
Original application June 24, 1940, Serial No. 342,045. Divided and this application August 14, 1940, Serial No. 352,545
9 Claims. (Cl. 271—87)

3. Stacking apparatus comprising a stacking plate, means for holding a stack of articles above said plate, a belt conveyor having a delivery run for delivering articles to said plate and lying in a plane intersecting the plane of said plate, the higher end of said belt being the more remote



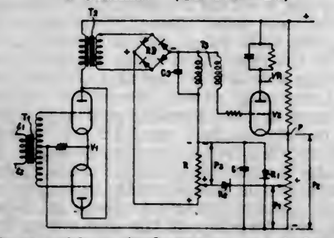
from said plate, and means for varying the angular relation between the delivery run of said belt and said stacker plate whereby to deliver various types of fabric article to said plate in smooth condition.

2,282,128
GAME
James B. Gubbins, Pittsburg, Calif.
Application April 22, 1940, Serial No. 330,850
6 Claims. (Cl. 273—137)



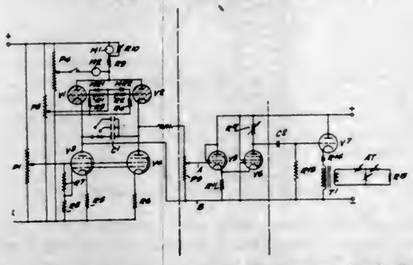
3. In a game having a playing board divided into playing sections, an assembly of playing pieces comprising a plurality of movable operating pieces of varying types whereby varying playing values may be indicated, a plurality of said operating pieces having recesses varying in diameter in separate pieces and adapted for removable mounting therein of subordinate units for visibly indicating a changeable playing value of the respective operating pieces, and a supply piece for playing on said sections and having series of recesses therein adapted for removably receiving a supply of each group of subordinate elements.

2,282,129
ALTERNATING CURRENT SIGNALING SYSTEM
Bertram Morton Hadfield, Middlesex, England, assignor to Associated Electric Laboratories Inc., Chicago, Ill., a corporation of Delaware
Application April 22, 1939, Serial No. 269,524
In Great Britain May 7, 1938
5 Claims. (Cl. 179—16)



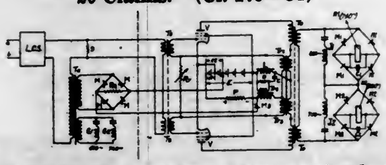
1. In a grid control arrangement for a thermionic valve, a signal receiving circuit connected to said grid, a resistor in said circuit, a source of biasing potential having one side connected to the cathode of said valve, a bridge across said source comprising, in series, a unidirectional conductive device, said resistor and a second unidirectional conductive device, the first of said devices being connected in said bridge in a conductive direction with respect to said source and the second of said devices being connected in said bridge in a non-conductive direction with respect to said source, and a condenser bridging said first device and charged only when the voltage across said resistor due to a signal received over said receiving circuit exceeds the voltage of said source.

2,282,130
THERMIONIC GENERATOR OF ALTERNATING CURRENT
Bertram Morton Hadfield, Harrow Weald, England, assignor to Associated Electric Laboratories Inc., Chicago, Ill., a corporation of Delaware
Application May 13, 1940, Serial No. 335,018
In Great Britain May 2, 1939
5 Claims. (Cl. 250—36)



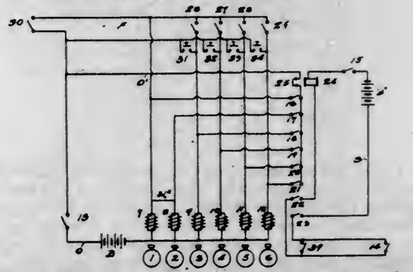
1. A thermionic valve oscillator controlled by constant current to produce an alternating current of triangular wave form with sides of equal slope comprising a pair of gas filled tubes and a pair of vacuum tubes, connections from the cathodes of said first pair of tubes to the anodes of said second pair, means for causing the gas filled tubes to be alternately conducting including a condenser connected between said anodes, the grids of said gas tubes connected together through a resistance, and a rectifier in shunt of said resistance.

2,282,131
ELECTRICAL SIGNALING SYSTEM
Bertram Morton Hadfield, Harrow Weald, England, assignor to Associated Electric Laboratories Inc., Chicago, Ill., a corporation of Delaware
Application November 18, 1940, Serial No. 366,121
In Great Britain January 12, 1940
20 Claims. (Cl. 179—84)



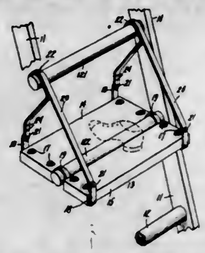
1. In a signaling system wherein a simple wave predominantly of a certain audio frequency is impressed upon a certain line at times, wherein another simple wave predominantly of a different audio frequency is impressed upon said line at other times, and wherein a complex wave including said two audio frequencies and other audio frequencies is impressed upon said line at still other times, two responding devices connected to said line, a rejector resonant circuit connected to one of said devices for preventing that device from responding to said first simple wave, a rejector resonant circuit connected to the other one of said devices for preventing said other device from responding to said other simple wave, and a guard circuit responsive to said other audio frequencies effective to prevent either of said devices from responding to said complex wave.

2,282,132
ELECTRICAL TIMING MECHANISM
Evanda P. Haltom and George L. Ledingham, Fort Worth, Tex.
Application May 10, 1940, Serial No. 334,500
1 Claim. (Cl. 161—18)



An electric race-timing mechanism including a series of stop watches, a source of electricity, means including a group of solenoids each adapted to start and stop one of said watches, a solenoid-operating circuit connected to said source and said solenoids being connected in parallel relation in said circuit, manually operated switches in said solenoid operating circuit, one switch for each solenoid, a relay-operated switch in said solenoid-operating circuit, a relay-operating circuit for energizing said relay including a switch to be closed at the starting of a race, a tape-operated finish switch in series with said source and with two of said solenoids, said tape-operated switch being in parallel with the relay-operated switch and the said manual switches, whereby said two solenoids are energized by the winner upon reaching the finish-tape.

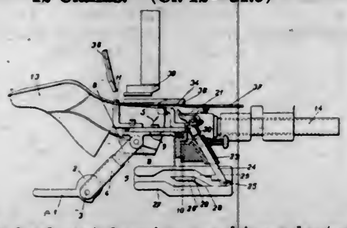
2,282,133
SUPPORTING ATTACHMENT FOR LADDERS
Kenneth W. Horton, Defreestville, N. Y.
Application July 9, 1940, Serial No. 344,541
9 Claims. (Cl. 304—10)



2. In a device of the character described, a supporting platform for a ladder comprising two spaced boards between which a rung of said ladder is received, first supporting members secured to and extending underneath and transversely of said platform, second supporting members attached to the forward ends of said first supporting members and extending to and supported upon the next higher rung of the ladder, and third supporting members attached to the

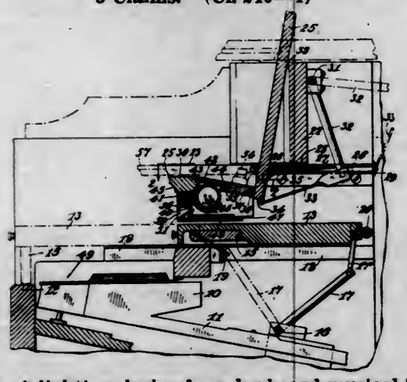
rear ends of said first supporting members and extending to and supported upon said next higher rung.

2,282,134
MACHINE FOR FORMING HEEL SEATS IN THE MANUFACTURE OF SHOES
John Hoza, Belcamp, Md.
Application April 20, 1940, Serial No. 330,779
In Czechoslovakia October 6, 1938
12 Claims. (Cl. 12—31.5)



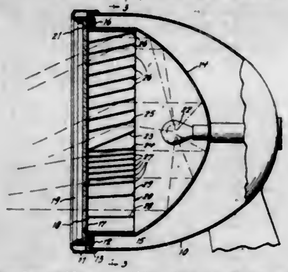
1. In a heel seat forming machine adapted to receive a lasted shoe and having a frame and means for cutting material from the shoe sole; a shoe-holding device comprising a carrier, guides on said carrier guided by said frame for movement of said carrier towards and from the machine, a slide mounted in said carrier for up and down displacement, angle members on said slide, said members constituting in abutment, a forked component pivotally attached to said slide, an actuating element which is mounted on said forked component and is manually turnable to and from a locking position, a last-gripper movably mounted in said forked component and adapted to engage a last having a shoe thereon, and spring means interposed between said actuating element and said gripper to cause said gripper to force the last and shoe thereon upwardly against said abutment whenever said actuating element occupies its locking position, in combination with a stop device for limiting movement of said carrier with the lasted shoe, said stop device comprising a striker moving with said carrier, a lever fulcrumed on the frame and turnable by said striker, and a limit stop engageable by said lever.

2,282,135
ILLUMINATED MUSIC RACK
Webster E. Janssen, Westport, Conn.
Application March 15, 1940, Serial No. 324,050
3 Claims. (Cl. 240—4)



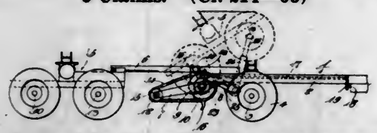
1. A lighting device for a keyboard musical instrument including a front instrument wall having a slot therein parallel to the keyboard, a footboard extending rearwardly from the top thereof, a music rack cooperating with said footboard to support sheet music, a lamp behind the wall and below said footboard, a light transmitting strip in the foot board to permit the light from said lamp to illuminate said music, and a reflector for the lamp including a slot aligned with the wall slot through which light from said lamp illuminates said keyboard.

2,282,136
AUTOMOBILE HEADLIGHT SHADE
Richard W. Jorgensen, Palos Park, Ill.
Application October 9, 1940, Serial No. 360,369
1 Claim. (Cl. 240—48.4)



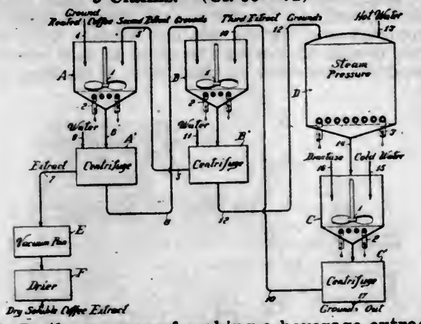
In combination with the reflector shell of a headlamp or the like, a shade comprising a substantially cylindrical member insertable and registering in said shell, said member having a plurality of transverse webs extending thereacross, that group of said webs above a horizontal plane through the axis of said member being mutually parallel and sloping downward toward the front at a substantially large angle, the other group of said webs below said plane being mutually parallel and sloping downward toward the front at a smaller angle, a third web mounted intermediate the lowermost of said upper group of webs and the topmost of said lower group of webs, said third web having its rear edge substantially in said plane and sloping downward toward the front and having its forward edge in linear contact with the forward edge of said topmost web of said lower group.

2,282,137
TRAILER LOADER
Warner L. Keehn, Spokane, Wash.
Application October 2, 1940, Serial No. 359,448
6 Claims. (Cl. 214—65)



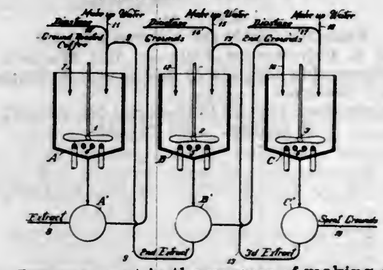
1. In combination with a truck, a conveyor at the rear of the truck extending forwardly at an upward incline for advancing a trailer forwardly toward a loaded position on the truck, longitudinally extensible means pivoted at its lower end to the truck and adjusted for engaging the advancing trailer and swinging the advancing trailer upwardly and forwardly and supporting the trailer in loaded position over the truck, and actuating means for swinging the supporting means upwardly and forwardly and extending the support longitudinally during swinging movement thereof including a clutch moved into operative position by said conveyor.

2,282,138
PROCESS FOR THE PRODUCTION OF SOLUBLE COFFEE EXTRACT
John L. Kellogg, Chicago, Ill., assignor to Helen L. Kellogg, Chicago, Ill.
Application October 25, 1940, Serial No. 362,819
9 Claims. (Cl. 99—71)



1. In the process of making a beverage extract from vegetable matter involving subjecting the vegetable matter to repeated extractions using, as an extracting vehicle for an earlier extracting operation, an extract from a later operation, on the counter-current principle: the improvement which comprises cooking the grounds in water before extraction in the later extracting operation to facilitate the extracting process and increase the yield of extractives.

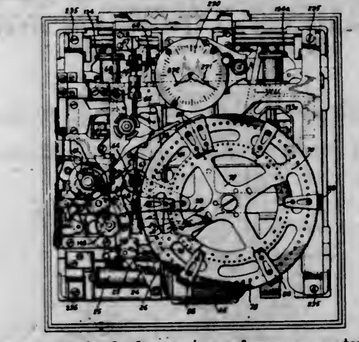
2,282,139
PROCESS FOR PRODUCTION OF COFFEE EXTRACT
John L. Kellogg, Chicago, Ill., assignor to Helen L. Kellogg, Chicago, Ill.
Application September 29, 1941, Serial No. 412,898
10 Claims. (Cl. 99—71)



1. Improvement in the process of making coffee extract which comprises: treating roasted coffee material in water with a converting enzyme.

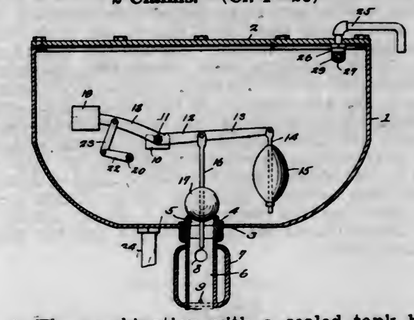
2,282,140
TIME RECORDER
Clair D. Lake, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Original application July 6, 1938, Serial No. 217,685. Divided and this application February 21, 1940, Serial No. 320,024
5 Claims. (Cl. 161—1)

1. A program device for scheduling the operation of an associated mechanism for a predetermined time period comprising a rotatable disk and control elements attachable thereto at various points in accordance with a desired program, means for rotating said disk at a timed rate, a plurality of sensing fingers mounted adjacent the disk for sensing the control elements during the rotation of said disk, a rotatable cam having a plurality of leaves spaced apart along the axis of rotation of said cam so as to place each of said leaves in alignment with one of the sensing fingers, the leaves also being spaced circumferentially about said cam so that only one of said leaves is in engageable relation with its related sensing finger at a time to cause operation of the associated mechanism as said device



senses a control element, and means actuated by the disk upon completing each revolution to rotate the cam so as to bring a different one of said leaves into engageable relation with its related sensing finger for the next revolution of the disk, said disk being rotated during said predetermined time period through a number of complete revolutions equal to the number of said cam leaves, whereby all of said leaves are brought into engageable relation with their related sensing fingers within the predetermined time period.

2,282,141
FLUSH TANK
James W. Matthews, Alice, Tex.
Application September 26, 1941, Serial No. 412,494
2 Claims. (Cl. 4—26)



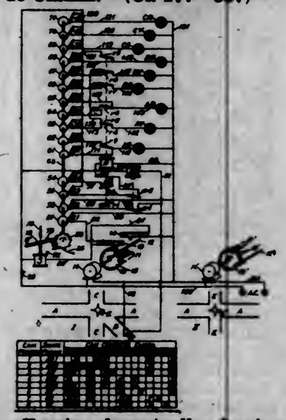
1. The combination with a sealed tank having a water inlet, a water outlet, a vent, and means for closing the vent under water pressure from within the tank, of a lever in the tank having a lifting arm and a tripping arm, a weight on the lifting arm positioned to be submerged, a weight on the tripping arm constructed to overbalance the other weight when the latter is submerged but to be overbalanced by said other weight when the latter is not submerged, an outlet valve connected to the lifting arm and positioned to be held normally closed by pressure of water in the tank, said valve, when held closed, constituting means for restraining the submerged weight against actuation by the other

weight, and means for forcibly unseating the outlet valve to release the submerged weight for actuation by the other weight.

2,282,142
TRAFFIC ACTUATED SIGNALING APPARATUS

John L. Barker, Norwalk, Conn., assignor to Automatic Signal Corporation, East Norwalk, Conn., a corporation of Delaware

Application August 8, 1940, Serial No. 351,846
13 Claims. (Cl. 177—337)



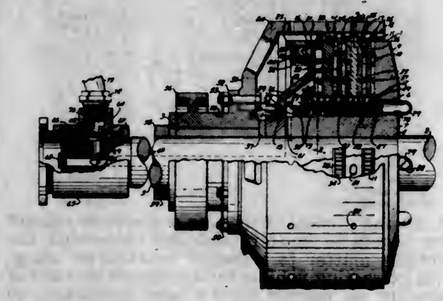
1. In a traffic signal controller having a time controlled cyclic switch mechanism and at least three switching positions through which the mechanism is operated periodically, three right of way signal circuits, a plurality of switches forming a part of said cyclic switch mechanism including three switches operated in sequence in three separate positions in the cycle of said mechanism and a fourth switch operated in two of said three positions, relay means operable responsive to traffic actuation and connected to said switch mechanism to be initially so operated in the first of said three positions of the cycle and to be maintained operated through the second of said three positions and thereafter released, switches interposed between two of said signal circuits and the switches of said mechanism and operated by operation of said relay means to disconnect one signal circuit from the fourth switch and to connect a second signal circuit for operation by the second position switch, and a direct connection between the third signal circuit and the third position switch and a direct connection between said one signal circuit and the first position switch.

2,282,143
CLUTCH

Ray E. Carter, Tulsa, Okla., assignor to Unit Rig & Equipment Company, Tulsa, Okla., a partnership composed of Jerry Underwood, Hugh Chancey, William Guier, and Ray E. Carter

Application May 6, 1940, Serial No. 333,570
5 Claims. (Cl. 192—85)

1. A clutch of the character described including, driving and driven members, means supporting said members in coaxial alignment, one of said members having spring seats and a hub portion provided with longitudinal recesses registering with said spring seats, means interposed between said members and having frictional contact faces to connect said members in driving relation with each other when axial pressure is applied to effect engaging contact of said faces, pressure applying members one comprising a cylinder having an end wall supported on said hub and having a lateral peripheral flange forming a piston chamber and the other a piston in said chamber and mounted on said hub, a packing carried by one of said pressure applying members and having sealing contact with said hub, means anchoring the other of said pressure applying members on said hub, a packing ele-

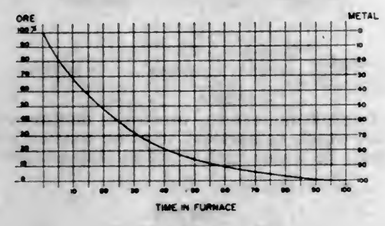


ment for sealing the piston member relatively to said peripheral flange and to cooperate with said packing and said anchoring means for sealing a pressure chamber formed between said pressure applying members, means for admitting a pressure medium between said pressure applying members, and an expansion spring in each recess and having one end engaging a registering spring seat and the other the movable pressure applying member for disengaging said contact faces upon exhaust of the pressure medium.

2,282,144
PRODUCTION OF SPONGE IRON

Frank A. Fahrenwald, Chicago, Ill.; Marjorie P. Fahrenwald executrix of said Frank A. Fahrenwald, deceased

Application May 2, 1940, Serial No. 332,957
10 Claims. (Cl. 75—34)

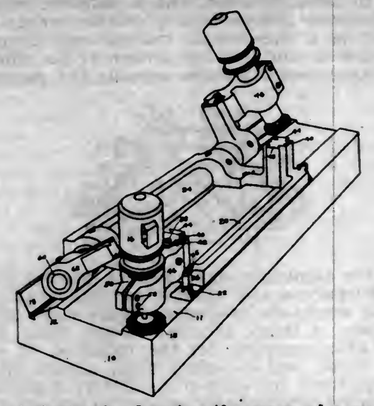


1. The method of controlling the dissolved carbon content of sponge iron produced by reduction of iron oxide without fusion, which comprises: subjecting the heated ore to the action of hot reducing gases containing carbon monoxide; and when the reduction has proceeded to a predetermined degree, eliminating the carbon monoxide and substituting hydrogen; whereby a predetermined removal of the carbon previously dissolved is effected during the further reduction by hydrogen alone; the point at which the monoxide is eliminated being predetermined in accordance with the amount of carbon desired in the final product.

2,282,145
MACHINE FOR LAPPING THE WAYS OF MACHINE TOOLS

Herbert S. Indge, Westboro, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application August 17, 1939, Serial No. 290,652
9 Claims. (Cl. 51—170)

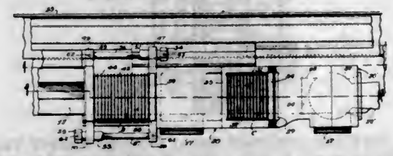


3. A device for lapping the ways of a machine tool having a flat way and a V-way comprising a support having a member provided with a round surface adapted to interfit with and reciprocate along the V-way, a second member positioned to contact with the flat way, means for adjusting one of said members relative to the ways to align both of them with the ways, a lapping tool, means for mounting the tool on the support in contact with one of the ways and means for moving the lapping tool so as to provide a break up motion and lap the way as the support is reciprocated.

2,282,146
DRAFT GEAR MECHANISM FOR RAILWAY VEHICLES

Kenneth W. Mealing, East Lansdowne, and Henry K. Harwick, Darby, Del., assignors to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application October 4, 1939, Serial No. 297,784
5 Claims. (Cl. 213—47)

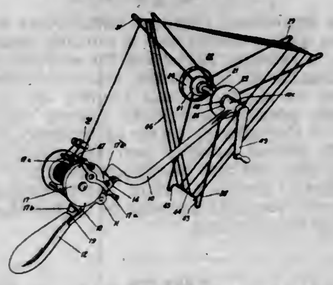


1. In a draft gear rigging for a railway car, a center sill proper and end extensions thereof forming therewith a draft gear pocket, a draft gear yoke slidably supported in the pocket, an inner cushioning device arranged in the pocket and normally directly interposed under normally preloaded condition between the end of the center sill proper and the inner end of the yoke, abutment means on said end extensions of the center sill, the yoke having a transverse recess, and a second cushioning device arranged in said recess and normally held in preloaded condition between the inner wall of the recess and said abutment means, and means associated with the inner cushioning device for preloading it beyond the normal to facilitate the insertion thereof and of the yoke and the second cushioning device into the pocket, said means being operable to release said abnormal preloading to permit expansion of said inner cushioning device after such insertion into the pocket to normally maintain a bias on the yoke to compress the second cushioning device to its normal preloaded condition between the yoke and the abutment means on the sill extensions, the center sill proper, the yoke and the cushioning devices being in substantially axial alignment.

2,282,147
FISHLINE DRYING MEANS

Charles F. Quentin, Cedar Rapids, and Donald E. Kassner, Marion, Iowa

Application February 3, 1940, Serial No. 317,186
5 Claims. (Cl. 242—104)



1. In combination, a frame, a line drying reel rotatably mounted thereon, a handle, means for hingedly mounting the handle on the frame, and means for detachably securing the base of a fishing reel on both the handle and frame contiguous to the hinge mounting means, said securing means adapted to hold the handle in extended position when the reel is mounted in place on the handle and frame.

2,282,148
TOOL HANDLE

Siegmund Mandl, Milwaukee, Wis., assignor to Blackhawk Mfg. Co., Milwaukee, Wis., a corporation of Wisconsin

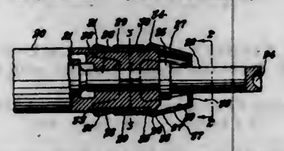
Original application January 18, 1940, Serial No. 314,435. Divided and this application November 8, 1940, Serial No. 364,889
10 Claims. (Cl. 74—544)



1. In combination, a tool having a head and a rigid actuating arm provided with a taper remote from said head, and a tubular handle having alined similarly tapered sockets of different depth

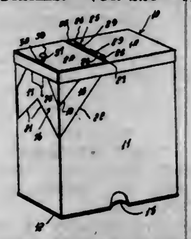
reversibly associable with the end of said arm remote from said head to vary the effective length of the arm.

2,282,149
IMPLEMENT RETAINER
Roy O. Allen, Athens, Pa., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application March 12, 1940, Serial No. 323,495
2 Claims. (Cl. 279—19.4)



1. An implement retainer, comprising in combination with a casing and a working implement therein, a retainer sleeve for the working implement slidable on the casing and consisting of a plurality of sections each having an inturned retaining portion, shoulders spaced along the length of the casing, a pair of inclined surfaces on each section to slide over the shoulders for moving the sections bodily outwardly to move the inturned portions out of the retaining position, and a resilient member to oppose the separation of the sections.

2,282,150
OPENING AND DISPENSING DEVICE
Sarah S. Andary, Ocala, Fla.
Application August 29, 1940, Serial No. 354,758
8 Claims. (Cl. 229—7)



1. A pouring attachment for containers comprising a cover adapted to be applied to the top of a container, cutting means depending from said cover for piercing the top of the container for forming an opening therein, said cover having an opening arranged to be disposed above the opening formed in the container, a hinged closure for closing the opening in said cover, and hinged manually operative means carried by said closure for engaging a cut-out portion in said container formed by the cutting means and for drawing said cut-out portion outwardly through the opening in the cover when the closure is moved to an open position.

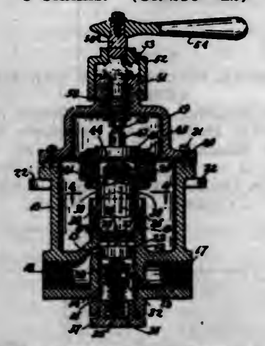
2,282,151
STEREOSCOPE
Charles D. Austin, Cincinnati, Ohio, assignor to Advertising Displays Incorporated, Covington, Ky., a corporation of Kentucky
Application May 21, 1940, Serial No. 336,423
5 Claims. (Cl. 88—29)

1. A device for exhibiting stereoscopic transparencies, which comprises a hollow body formed of a molded plastic material and comprising top and bottom members and wall members extending therebetween defining diverging light passageways, means extending inwardly from the outermost of said wall members providing grooves for the reception of reflectors, surface reflectors mounted within said grooves, and cooperating surface reflectors mounted upon the other of the walls of the passageways, the said passageways being in communication with a chamber providing opposing grooves which provide means for supporting a stereoscopic transparency therein, a window in said housing portion at the side of the transparency, grooves opposite the passage-



ways for admitting light thereto, ground glass extending across said window, and wall means extending across the light passageways at the opposite ends of them, the wall means being provided with apertures for the reception of eye-piece lenses, and eye-piece lenses seated within said apertures, the walls of the diverging passageways being substantially parallel to one another, but the angle of the pairs of walls being such that the reflectors installed on the interior surfaces of the walls of the pairs cause merging of the stereoscopic images of the transparency being exhibited.

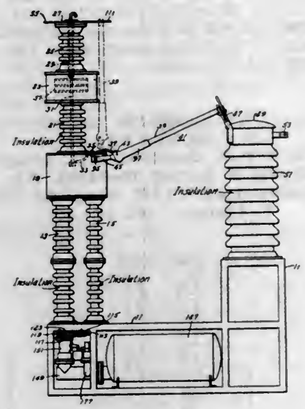
2,282,152
DOUBLE ACTION SHOWER MIXING VALVE
Edward Babbin, New York, N. Y.
Application June 7, 1940, Serial No. 339,234
3 Claims. (Cl. 236—12)



1. In a hot and cold water mixing shower valve, a hollow body for the mixed hot and cold water, an internal cylindrical portion formed in one end of said body and having a transverse partition having a passage and dividing said cylindrical portion into connected upper and lower compartments, a hot water inlet to one of said compartments, a cold water inlet to the other of said compartments, a cylindrical valve in the upper compartment of said cylindrical portion and movable upwards to close said water inlet to said upper compartment and movable downwards to open said water inlet to said upper compartment, a valve stem having an intermediate portion securely attached to said cylindrical valve and having its free ends projected upward and downward through said passage, a valve fixedly

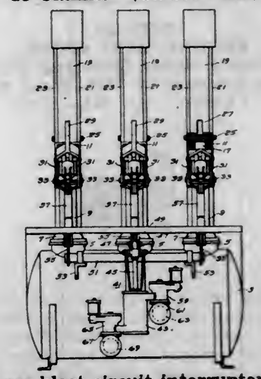
mounted on the downward extending end of said valve above said partition in a position to seat on the top face of said partition over said passage when said cylindrical valve is in its open position to control the passage of water from said lower to said upper compartment, resilient means operating between the bottom end of said valve stem and adjacent portion of said body urging said valve stem upward to correspondingly move said valves and open one and close the other, an expanded thermostat mounted within said body and engaging the top end of said valve stem urging it downward against the holding action of said resilient means and correspondingly move said valves to open the closed one and close the open one, whereas if said thermostat breaks and collapses it will free said valve stem to be urged completely upwards by said resilient means, and a third valve fixedly mounted on the downwardly extending end of said valve stem below said partition in a normally inoperative position, whereby when said thermostat becomes inoperative and frees said valve stem said spring will urge said valve stem upwards to seat said third valve on the bottom face of said partition over said passage to prevent the passage of water therethrough and arrest further upward movement of said valve stem and simultaneously move said cylindrical valve upward to close the water inlet to said upper compartment.

2,282,153
CIRCUIT INTERRUPTER
Benjamin P. Baker, Turtle Creek, and Andrew H. Bakken, Edgewood, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 25, 1941, Serial No. 375,968
23 Claims. (Cl. 200—148)



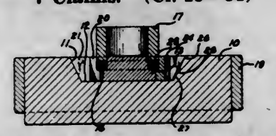
1. In a circuit interrupting device, a pair of arcing contacts separable to provide a current interupting break, a pair of switch members connected in series with said arcing contacts and separable to provide an isolating break, and operating means for sequentially moving said arcing contacts and said switch members to the open position, at least one of said switch members being movable into bridging relation with said arcing contacts upon disengagement from the other switch member to electrically connect said arcing contacts with each other.

2,282,154
CIRCUIT INTERRUPTER
Andrew H. Bakken, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 13, 1940, Serial No. 313,745
13 Claims. (Cl. 200—148)



1. In a gas blast circuit interrupter, a tank for storing gas under pressure, a hollow insulator supported by said tank, stationary contact means mounted on the free end of said insulator, a coacting movable contact pivotally mounted upon said insulator intermediate the ends thereof and having its contact portion movable across the free end of said insulator in a path generally at right angles to the longitudinal axis of said insulator, operating means for moving said movable contact into and out of engagement with said stationary contact means mounted on the free end of said insulator to make and break the connected circuit, arc extinguishing means also mounted on the free end of said insulator, and means for causing a blast of gas to flow from said tank through said hollow insulator during at least the opening movement of said movable contact, said blast of gas driving any arc formed at said contact means into said arc extinguishing means.

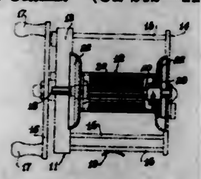
2,282,155
MOLDING DIE
Adolph F. Bandur, Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application October 11, 1939, Serial No. 298,875
7 Claims. (Cl. 18—34)



4. A molding die comprising a die base having a circular recess therein with a tapering side wall, a center member positioned in the base recess, and a plurality of arcuately shaped die sections positioned in the recess with the external surfaces of their walls in contact with the wall of the recess only at predetermined points thereof and the internal surfaces of the section walls cooperating with the central member to form a ring shaped molding cavity, each of said sections having a radial slot positioned mid-way between its ends and extending through the section body from the external surface of the section wall to a point near the internal surface of

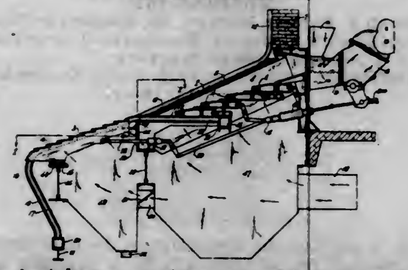
the section, and the external surface of each section being shaped to cause predetermined portions thereof adjacent to the section ends and along the top of the section to normally engage the base recess wall while the remaining portions of the external section wall surface are spaced from the base recess wall.

2,282,156
FISHING REEL SPOOL
Edwin J. Benes, Cleveland, Ohio
Application February 14, 1941, Serial No. 378,926
1 Claim. (Cl. 242—119)



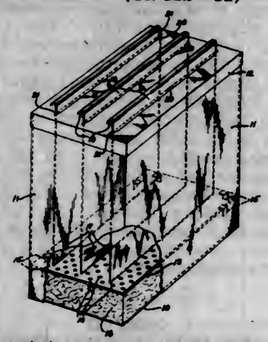
In a fishing reel, the combination of, an elongated operating shaft of metal having a small diameter, a pair of spaced spool flanges formed of light weight durable plastic material fixedly mounted on said shaft and provided with integrally formed shoulders on their inner faces said shoulders being provided with locking members projecting therefrom, the diameter of said shoulders being relatively much larger than the diameter of said shaft, and a thin, hollow, elongated arbor also formed of light weight durable plastic material disposed around said shaft and mounted at its ends around said spool shoulders, said arbor ends being provided with cooperating notch formations interlocked with said shoulder locking members integrally secured thereto and thereby providing a light durable reel spool having a relatively low moment of inertia, for the purposes described.

2,282,157
STOKER
Joseph S. Bennett, Merion, Pa., assignor to American Engineering Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 3, 1936, Serial No. 99,234
10 Claims. (Cl. 122—4)



2. A stoker, comprising an underfeed section and an overfeed section, said underfeed section consisting of a series of alternately disposed retorts and tuyère rows, one or more fluid conducting members mounted in intimate relation with each of said tuyère rows, said members extending rearwardly of said underfeed section and forming a portion of said overfeed section, a plurality of grate bars disposed between the extensions of said members in alignment with said tuyère rows and also forming a portion of said overfeed section, supporting means for the lower ends of said grate bars, means for elevating said supporting means to vary the effectiveness of said grate bars, cam means operatively connected to each of said grate bars for actuating the same, and means for operating said cam means.

2,282,158
CONTAINER
Loren E. Bennett and Arthur C. Dahl, Hinsdale, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application February 18, 1939, Serial No. 257,184
3 Claims. (Cl. 312—31)



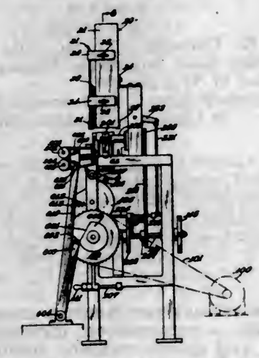
1. In a container for quick drying stamping ink and the like incorporating a volatile solvent, means for maintaining a vapor of said solvent within the container, a plate normally positioned in the container for supporting the ink, and a tight-fitting cover having a longitudinal slot therein for passage of the ink supporting plate from the container, said slot having a relatively wide portion corresponding to the ink bearing portion of the plate and restricted end portions for holding the ink bearing portion of the plate out of contact with the cover when the plate is passed through the slot.

2,282,159
TEAT CUP
Hugo O. Berndt, Hartford, Wis., assignor to Harold H. Berndt, Hartford, Wis.
Application April 1, 1940, Serial No. 327,101
11 Claims. (Cl. 31—85)



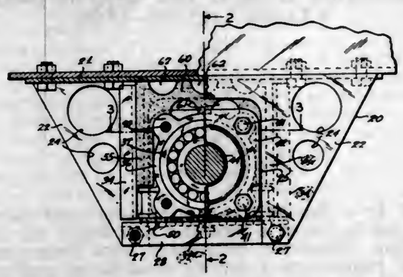
5. In a teat cup, the combination of, an inflation element having a teat receiving end, an internal annular flange adjacent said end, said flange having a substantially uniform thickness, and an expansion element located between said end and said flange to retain the flange taut.

2,282,160
BAG FEEDING APPARATUS
Louis Bischoff, New York, N. Y., assignor to Oneida Paper Products, Inc., New York, N. Y., a corporation of New York
Application February 11, 1941, Serial No. 378,366
17 Claims. (Cl. 271—1)



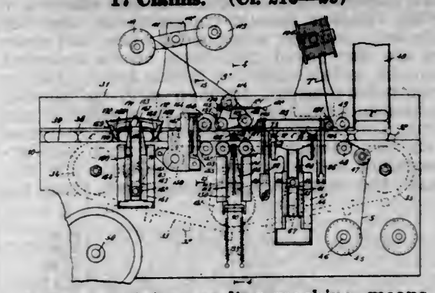
1. A bag feeding apparatus comprising a hopper, means for supporting a plurality of stacked bags therein, means for releasing a portion of a bag from the bottom of the stack and a slide member having a plate engageable with said released portion of the bag, said slide member being movable in a first direction to engage said portion of the bag and in the opposite direction to remove the bag from the bottom of the hopper; means for disengaging said bag from said plate at the completion of said movement in the opposite direction and for dropping said bag upon a bed and means for thereafter moving said bag in said first direction upon said bed.

2,282,161
JOURNAL ASSEMBLY FOR AXLE OR SHAFT BEARINGS
Otto H. Brauer, Three Rivers, Mich., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application July 31, 1940, Serial No. 348,722
8 Claims. (Cl. 308—180)



1. In an axle bearing assembly for vehicles and the like, an inverted element of channel form constituting a bearing housing centrally recessed and formed to provide an open-bottom journal pocket, a journal for the axle or shaft, in said pocket, a substantially inverted U-shape cushion element of resilient material, overlying and laterally engaging the journal and located in said pocket, and a removable closure for the bottom opening of the journal pocket, detachably carried by the bearing housing.

2,282,162
CONTAINER SEALING MACHINE
Wilhelm B. Bronander, Montclair, N. J.
Application February 1, 1941, Serial No. 376,939
17 Claims. (Cl. 216—29)



5. In a container sealing machine, means for feeding containers to be sealed, means for applying and securing a strip along one side and the ends of the container, and means for applying and securing another strip to the other side and ends of the container, the ends of the second strip overlapping the ends of the first strip.

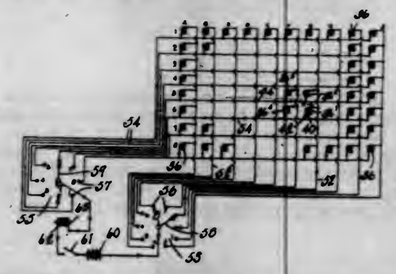
2,282,163
TREATMENT OF SILICON-IRON ALLOYS
Stephen L. Burgwin, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application February 18, 1941, Serial No. 379,481
6 Claims. (Cl. 148—4)

2. In the method of reducing magnetostriction in silicon-iron alloy containing up to 6% of silicon and which has been fabricated into strip form and treated to develop its magnetic characteristics, in combination, heating the treated alloy strip to a temperature between 700° C. and 1100° C. in the presence of a reagent capable of reacting with the silicon-iron alloy to form a thin film of oxidized material on the surfaces of the strip while applying tension to the strip, the tension applied being below the elastic limit of the alloy strip, and cooling the alloy strip with the thin film of oxidized material thereon as an adherent part thereof, the reagent being selected to form a thin film of oxidized material having a linear thermal coefficient of expansion less than the linear thermal coefficient of expansion of the silicon-iron alloy to give a strip in which the silicon-iron alloy is under tension and the adhering film of oxidized material is in compression to effectively reduce the magnetostriction of the alloy strip.

2,282,164
SELECTIVE APPARATUS
Wallace H. Buswell, Kalamazoo, Mich.
Application November 25, 1938, Serial No. 242,170
2 Claims. (Cl. 177—353)

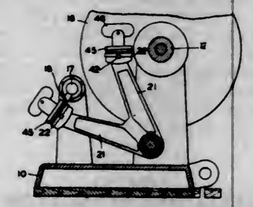
1. In a selective apparatus, a plurality of controlled devices, each including a compartment and a manually actuated closure swingably associated therewith, and means for selectively controlling said devices, comprising a first set of parallel leads, a second set of parallel leads, means for electrically connecting each of the leads of said first set with each of the leads of the second set, comprising a plurality of electrically actuable controlled mechanisms each provided with a normally closed switch in series

therewith and having manually settable means coacting with the switch to maintain the same in normally closed position, individual latch members respectively actuated by said mechanisms engaging and maintaining said closures in closing relation to said compartment, the closures being adapted to be opened when said members are disengaged therefrom, means including manually settable selector means for completing a controlling circuit through a given selected mechanism, a source of E. M. F. for energizing said circuit, the selected mechanism being energized by current flowing in said circuit when the corresponding switch is closed to actuate and disengage the respective latch members from the



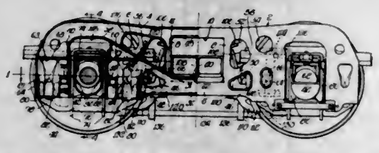
closure, the current flowing through a shunt circuit including other mechanisms than the selected one and being thereby reduced to a value insufficient to actuate any of the mechanisms when the switch corresponding to the selected mechanism is open, means including individual means on said closures associated with said normally closed switches automatically actuable upon shifting of the closure relative to the compartment for opening said switches to prevent flow of further current through the mechanism corresponding thereto, and means for maintaining the thus opened switch in open circuit breaking condition until the same is manually reset to closed position.

2,282,165
KEY VISE
Floyd W. Corson, Cleveland, Ohio
Application May 6, 1940, Serial No. 333,550
5 Claims. (Cl. 90—13.05)



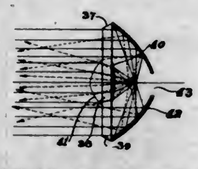
1. A key vise comprising a pair of square jaws, each generally planate, the first of said jaws having portions of its face toward the second jaw along a plurality of its side edges recessed by different amounts respectively to accommodate keys of different thickness, the second of said jaws having a key gripping portion along one of its edges only and facing said first jaw, said second jaw having an edge opposite its said one edge and provided with projections extending toward said first jaw, and abutments on said first jaw lying in a common plane and in position to receive said projections when said jaws are placed with any one of said recessed edges facing said gripping portion, and means for clamping said jaws together, whereby said jaws are substantially parallel when keys of different thickness are clamped at various times against one or the other of said plurality of edges.

2,282,166
CAR TRUCK
Robert B. Cottrell, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application June 7, 1940, Serial No. 339,302
28 Claims. (Cl. 105—206)



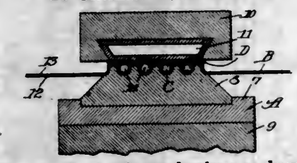
1. In a railway car truck, a truss side frame comprising a compression member, a tension member, and spaced columns defining a bolster opening, a bolster having a bottom jaw fitted over the top chord of said tension member at the bottom of said opening, said top chord continuing diagonally upward toward the end of the frame to merge with said compression member and form a box-section adjacent the end of said frame, a pedestal opening beneath said box-section, box-like spring pockets formed at each side of said pedestal opening with top walls defining spring seats, spring groups in said pockets, a supporting wheel and axle assembly journaled in said opening, a journal box therefor, a hanger supported on the top of said box and supporting a spring beam therebeneath, said spring beam affording support for the lower ends of said spring groups, and a diagonal strut extending between said compression member and the top inner corner of the inner spring pocket.

2,282,167
FLASHLIGHT
Philipp A. Cullman, Flushing, N. Y., assignor to George M. Cressaty, New York, N. Y.
Application August 21, 1937, Serial No. 160,311
9 Claims. (Cl. 240—10.69)



2. In a flashlight, an adjustable light source, means including a lens and a reflector for projecting differently distributed light beams, said lens comprising a central condensing lens portion surrounded by a relatively wide margin of flat glass, said means, including said adjustable light source in one position, projecting substantially parallel rays through said flat portion of the lens to produce an intensified spot beam, and said means, including said adjustable light source in another position, projecting diverging rays through said flat portion to produce a spread beam, the rays refracted by said condensing lens portion reenforcing the spot beam and the central area of said spread beam whereby a spread beam of substantially even distribution is secured.

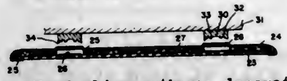
2,282,168
DECORATIVE UPHOLSTERY FABRIC
George R. Cunnington, Grosse Pointe Park, Mich., assignor to National Automotive Fibres, Inc., a corporation of Delaware
Application October 9, 1937, Serial No. 168,286
16 Claims. (Cl. 154—2)



1. The method of producing a decorative design in an upholstery fabric which comprises: placing the fabric against a die having the desired design, applying to the fabric a thermo-setting strip of adhesive material carrying preformed riser members disposed in conformity with the die design, and applying sufficient heat and pressure to stretch the fabric over the risers and permanently secure the exposed portions of the strip to the back of the fabric adjacent to said risers.

5. A decorated fabric having a flat strip of soft, flexible cured rubber at its rear surface, and a soft flexible riser having no inherent adhesive characteristics intermediate said fabric and said rubber, said fabric conforming closely to the exposed portions of said riser so as to produce an outstanding formation at the front surface thereof, said fabric being vulcanized to said rubber strip, portions of the rubber strip tensioning the fabric in conforming relationship over said riser.

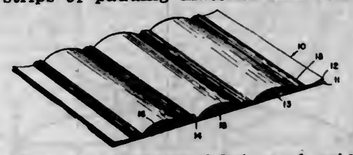
2,282,169
DECORATED FABRIC
George R. Cunnington, Grosse Pointe Park, Mich., assignor to National Automotive Fibres, Inc., Detroit, Mich., a corporation of Delaware
Application August 1, 1938, Serial No. 222,552
2 Claims. (Cl. 154—2)



1. The method of imparting a decorative effect to a limited area of a fabric which comprises: applying a relatively thick ply of uncured rubber to the rear surface of said fabric opposite to the limited area to be decorated, applying a relatively thin ply of uncured rubber to the front surface of said fabric over the limited area to be decorated and in registry with said relatively thick ply of uncured rubber, subjecting said rubber to vulcanizing temperatures while applying pressure at a plurality of closely spaced zones to the front face of said relatively thin ply of rubber sufficient to displace the rubber of said relatively thick ply into raised risers intermediate the zones of pressure application, thereby forming the fabric and thin ply of rubber into a relief design, and maintaining said pressure until vulcanization of said rubber is substantially effected.

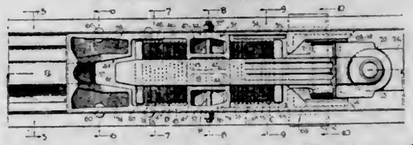
2,282,170
UPHOLSTERY
George R. Cunnington, Grosse Pointe Park, Mich., assignor to National Automotive Fibres, Inc., Detroit, Mich., a corporation of Delaware
Application December 5, 1938, Serial No. 244,099
2 Claims. (Cl. 154—54)

1. A stuffed pleated cushion comprising a backing fabric, a plurality of spaced, relatively wide strips of bulky padding material on said backing fabric, relatively narrow strips of soft cured rubber in the spaces between said strips of padding material, a cover fabric overlying said strips of padding material and said strips



of rubber, said backing fabric and said cover fabric having vulcanized bonds of substantial width with said strips of rubber, whereby to form pipes receiving said strips of padding material, said cover fabric and said strips of rubber being shaped into a relief design providing increased area of contact therebetween.

2,282,171
DRAFT GEAR
Albert G. Dean, Narberth, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application December 9, 1939, Serial No. 308,351
6 Claims. (Cl. 213—46)

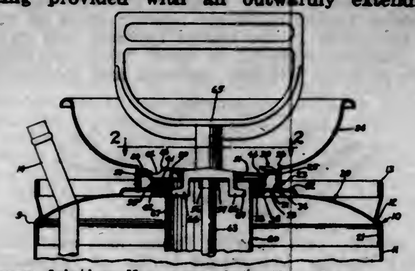


1. The combination with a draft gear pocket having its inner end wall closed by an end abutment directly engaging the outer end of the center sill, and its side walls formed by extensions of said sill, of a draft gear subassembly including a yoke, a rigid transverse abutment extending through the yoke and adapted to be secured to the side walls of the pocket, and a pair of cushioning means, one for draft and one for buff, said cushioning means bearing at their adjacent ends against the transverse abutment and at their remote ends against the yoke each under initial compression, said subassembly being arranged to be assembled as a unit into said pocket, and when so assembled said rigid abutment extends from side to side of the pocket and is secured to said side walls and further has means associated therewith extending along the sides of the pocket for transmitting the forces in buff directly to the end abutment and said center sill, thereby relieving the side walls of the pocket from bending strains.

2,282,172
DISPENSING DEVICE
Nicholas W. De Frees, Hastings, Minn., assignor to H. D. Hudson Manufacturing Company, Chicago, Ill., a corporation of Minnesota
Application August 19, 1940, Serial No. 353,177
7 Claims. (Cl. 221—77)

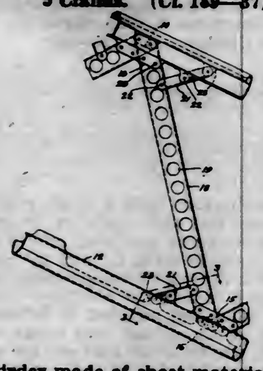
1. A fluid dispensing apparatus comprising a pressure containing vessel having walls and an opening therein, a neck extending outwardly of the vessel around the opening, a member having a wall fitted into said neck in fluid tight relationship thereto, said member being formed with an internal flange having a gasket seat thereon and with internal screw threads, a closure member having cooperating screw threads for engaging the gasket to seal the opening, a pump cylinder

mounted on the closure member, said cylinder being provided with an outwardly extending



flange frictionally secured to the closure member, and a gasket seated between the cylinder flange and the gasket seat.

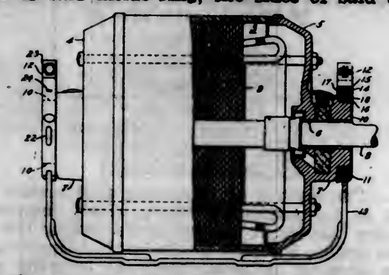
2,282,173
LIGHTWEIGHT GIRDER
Lloyd H. Donnell, Chicago, Ill., assignor, by mesne assignments, to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application October 9, 1940, Serial No. 360,368
5 Claims. (Cl. 189—37)



1. A girder made of sheet material for aircraft use, comprising a plurality of spaced open-channel chord members having free longitudinal edges at their open sides and parallelly spaced pairs of large and small extensions respectively integral with the free longitudinal edges of said chord members, struts of channel-shaped cross-section fitting between and being fastened to said large pairs of extensions to connect said chord members in zig-zag fashion, and braces of channel-shaped cross-sections connecting two opposite sides of a strut with a corresponding pair of said small extensions, thereby shortening the free length of a chord member between the joints of the struts and said chord members to increase the torsional resistance of said chord members as well as the torsional and compressional resistance of the girder.

2,282,174
RESILIENT MOUNTING FOR MOTORS
Harry D. Else and Cyril G. Veinott, Lima, Ohio, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 13, 1939, Serial No. 309,000
6 Claims. (Cl. 248—26)

1. In combination, a member subject to torsional vibration about an axis, and a support therefor comprising a resilient mounting-ring assembly concentric with said axis and comprising an inside-ring of a flowable, yielding solid-material, and a two-part, divided housing comprising two angle-sectional outside-rings of relatively stiff material engaging diagonally opposite corners of said inside-ring, the sides of said out-

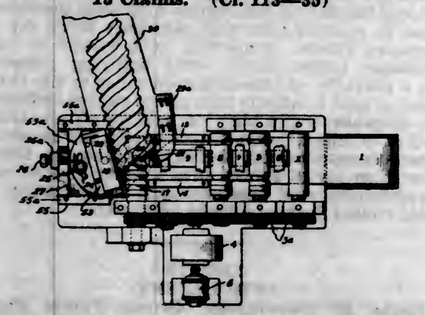


side-rings approaching close to, but for the most part spaced from, each other by a space too small for a substantial amount of flowing of the yieldable solid-material therethrough, whereby the mounting-ring assembly is relatively rigid in all directions except torsional.

2,282,175
WELDING FLUX
Roy W. Emerson, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application November 4, 1939, Serial No. 302,925
12 Claims. (Cl. 148—24)

1. A powdered exothermic fluxing material for use in metallic arc welding comprising, finely divided particles of iron oxide, aluminum in an amount sufficient to completely reduce the iron oxide, an alkaline earth metal compound for lowering the melting point of the resultant aluminate slag, and an additional deoxidizing agent for the weld metal.

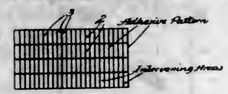
2,282,176
METHOD AND APPARATUS FOR FORMING HELICAL LOCK SEAM PIPE
Eugene Fay and Terrence W. Allsworth, Middletown, Ohio, assignors to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio
Application May 2, 1939, Serial No. 271,308
13 Claims. (Cl. 113—35)



1. A method of manufacturing tapered helical lock seam pipe, which includes the steps of forming along the edges of a strip of metal oppositely disposed similarly shaped seam elements, slightly inclining one of said seam elements, passing the strip between a pair of seaming rollers, bending said strip beyond said seaming rollers into a helical form to bring the leading edge of said strip around one of said pair of seaming rollers, continuously guiding said seam elements into interengagement and compressing said seam, and producing a taper in the pipe by gradually enforcing a change in the angle at which the finished pipe is being delivered.

5. Apparatus for the manufacture of corrugated helical lock seam pipe comprising a plurality of pairs of rollers arranged to impart to a strip passing therethrough similar but oppositely disposed seam elements along the edges thereof, a pair of corrugated rolls arranged to corrugate the strip as it passes therethrough, means to impart to the strip a helical curvature, means for guiding the seam elements into interengagement as the leading end of the strip passes about one of said corrugating rolls, and means on said corrugating rolls for tightly compressing said seam.

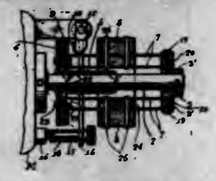
2,282,177
PLYWOOD
Theodore W. Dike and Harry Galber, Seattle, Wash., assignors to I. F. Laucks, Inc., Seattle, Wash., a corporation of Washington
Original application August 11, 1936, Serial No. 95,460. Divided and this application October 27, 1939, Serial No. 301,670
9 Claims. (Cl. 20—91)



1. A fir plywood panel glued with an aqueous alkaline glue of non-self-flowing consistency identifiable upon knifing by the following characteristic features; namely, that the areas of full pressure-contact show a predominantly fine fibre type of wood failure with a considerable proportion of fine fibres torn from the glue-spread ply as well as from the contacting unspread ply, that the panel generally shows a uniformly shallow alkaline stain of the wood which is darker on the spread ply than on the unspread ply, and on both plies shows at least some local areas reproducing in well defined form the original glue deposit with incomplete subsequent distribution due to local lack of full bonding pressure, that in non-pressure areas, such as in voids, at core-joints, knot holes, etc. the dried glue shows a dull grainy surface with the deposit in its original location without evidence of subsequent flow from original areas of deposit, and the excess glue squeezed into the void from surrounding area forms well defined beads which have not wetted or flowed out upon the adjacent wood, and that the panel as a whole is found free from surface alkaline stains, but has stains which have migrated into the wood not more than about two to five thousandths of an inch from the original surfaces contacted by the glue.

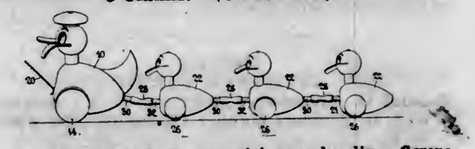
2,282,178
GOVERNOR
Michael J. Di Toro, East Orange, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application December 28, 1939, Serial No. 311,326
5 Claims. (Cl. 264—18)

1. A resilient mounting for a flyweight of a centrifugal governor which is carried by a rotatable shaft, comprising a pair of supporting members mounted on said shaft for relative rectilinear movement therealong, a plurality of leaf springs connected at their end portions to said supporting members and at their central portions to said flyweight and each disposed parallel to the axis of said shaft; and spacing means clamped between said springs at their central and end portions for holding the springs spaced apart at said portions, the distance of spacing between the springs being at least a major fraction of the width of the springs.



5. In a centrifugal governor: the combination of a flyweight; and a resilient beam structure for supporting said flyweight comprising a group of leaf springs spaced from one another, a portion of said structure passing through said flyweight and being secured thereto in a relationship wherein said portion is symmetrically disposed with respect to the center of gravity of the flyweight.

2,282,179
ACTION TOY
Herman G. Fisher, East Aurora, N. Y., assignor to Fisher-Price Toys, Inc., East Aurora, N. Y.
Application October 9, 1940, Serial No. 360,435
3 Claims. (Cl. 46—103)

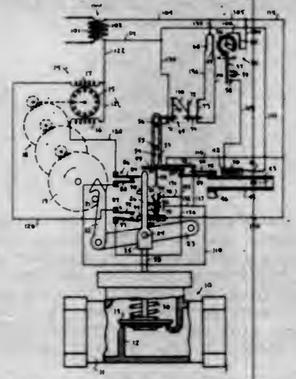


1. A traction toy comprising a leading figure and a following figure, eccentric traction wheels at opposite sides of the leading figure secured for joint rotation, the wheels at opposite sides of said figure having opposed eccentricity whereby said leading figure when moved forwardly along a surface pursues an undulating course, said following figure having a pair of eccentrically mounted traction wheels likewise of opposite eccentricity and a resilient self-centering connection with said leading figure, whereby the undulating course of said leading figure is transmitted in modified form to said following figure and the path of movement of said following figure is compounded of the transmitted undulations and the opposite eccentricity of its own wheels.

2,282,180
TEMPERATURE CONTROL SYSTEM
Willis H. Gille, St. Paul, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application October 30, 1939, Serial No. 301,879
14 Claims. (Cl. 236—68)

1. In combination, a flow controlling member for controlling the flow of fuel to a burner, an electric motor for positioning said flow controlling member, controlling contact means, means for variably positioning said controlling contact means in accordance with a condition indicative of the demand for burner operation, follow-up contact means adapted to be engaged by said controlling contact means, means for positioning

said follow-up contact means in accordance with the position of said flow controlling member, an energizing circuit for said motor and controlled by said controlling and follow-up contact means whereby said flow controlling member is modulatingly positioned in accordance with the position of said controlling contacts, and means operative upon said flow controlling member being

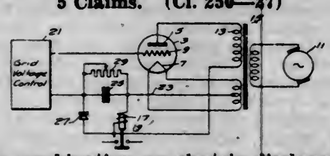


in one extreme position and said controlling contacts being moved to a predetermined position to energize said motor independently of said controlling and follow-up contacts and in such a manner as to cause said flow controlling member to move to its other extreme position and back to a position corresponding to the position of the controlling contacts.

2,282,181
ANTISEPTIC FABRIC
Roland H. Guinsburg, Montrose, N. Y., assignor to I. B. Kleinert Rubber Company, New York, N. Y.
No Drawing. Application February 4, 1939, Serial No. 254,599
7 Claims. (Cl. 117—141)

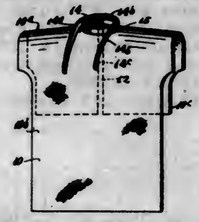
6. Sheet material of the class described for use in such articles as wearing apparel, shower curtains, bed sheets, etc., comprising a sheet of fabric coated with a waterproofing agent of the class consisting of pyroxylin, oxidized oil and synthetic resins, said waterproofed fabric having an antiseptic substance incorporated therein of the class consisting of tetramethylthiuram disulfide, and tetramethylthiuram monosulfide, said antiseptic substance being leachable from the fabric through said waterproofing agent whereby said sheet material is actively antiseptic in respect to external media.

2,282,182
AMPLIFIER CIRCUIT
Finn H. Gulliksen, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 7, 1939, Serial No. 293,734
5 Claims. (Cl. 250—27)



1. In combination an electric discharge valve having a plurality of principal electrodes and a control electrode, conductors extending from said principal electrodes to which an energizing potential is to be connected, a control circuit for said valve including said control electrode and one of said principal electrodes, said control circuit including means for impressing a control potential therein, charge storing means in said control circuit, interposed between said one principal electrode and said impressing means, inductive load means in the conductor extending from said one principal electrode and conductive means connecting the terminal of said load means remote from said one principal electrode to the terminal of said storing means remote from said one principal electrode, said conductive means including means permitting flow of current therethrough only toward said charge storing means.

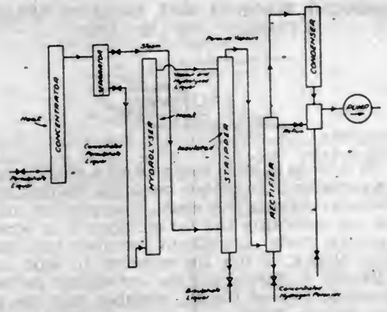
2,282,183
ADJUSTABLE NECKBAND FOR SHAMPOO AND LIKE CAPES
Emanuel Harris, New York, N. Y.
Application January 6, 1940, Serial No. 312,650
4 Claims. (Cl. 2—50)



1. In combination with a shampoo and the like cape having a neck opening continuing into a back opening, a neckband having its bottom edge securely attached to said neck opening, free strip portions continuing from the ends of said neckband, one of said strip portions extending outside of the other to the front, the other of said strip portions extending inside of said first-mentioned strip portion and through an opening in said neckband to the front, and a constricting elastic element mounted on the material of said neckband around said opening therein for gripping the strip portion passing therethrough.

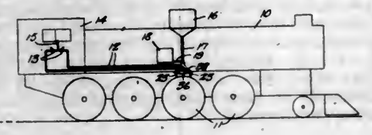
2,282,184
MANUFACTURE OF HYDROGEN PEROXIDE
Peter Harrower, Robert Christian Cooper, and Oswald Hugh Walters, Runcorn, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
Application February 27, 1940, Serial No. 321,136
In Great Britain January 6, 1939
2 Claims. (Cl. 23—207)

2. A process for the manufacture of hydrogen peroxide which comprises subjecting a dilute aqueous solution containing a compound selected from the class consisting of alkali metal and ammonium persulphates and persulphuric acid to heat in a preliminary concentrating zone under subatmospheric pressure to evaporate H_2O vapor therefrom, concentration being carried up to a point where further concentration would be accompanied with extensive hydrolysis of said compound and would cause hydrogen peroxide to be evolved, removing the H_2O vapors, substantially free of hydrogen peroxide, from contact with the solution, delivering the concentrated solution to a separate hydrolyzing zone and there heating it under conditions causing hydrolysis of the major part of the compound, with evolution of H_2O vapors containing hydrogen peroxide, then passing the solution to a separate distillation zone and there subjecting the solution to convection distillation in the presence of steam evolved in the



preliminary concentrating step to strip hydrogen peroxide from the solution without further concentration, recovering hydrogen peroxide from the combined vapors evolved in said hydrolyzing and distillation zones.

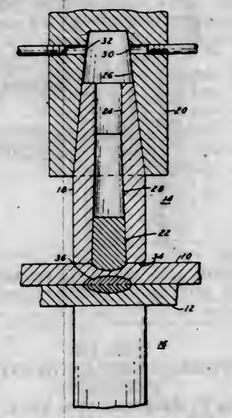
2,282,185
LOCOMOTIVE TIRE SANDER
Frederick S. Havill, Halifax, Nova Scotia, Canada
Application October 22, 1941, Serial No. 416,123
3 Claims. (Cl. 291—3)



1. A locomotive tire sander comprising, sand pipes for applying sand to the tire, a liquid adhesive supply pipe between the sand pipes, a fluid pressure cylinder and piston, valves in the sand pipes connected to the piston to be selectively opened by movement of the piston, means for conducting the fluid pressure exhaust from the cylinder to the adhesive pipe for blowing the adhesive onto the tire, and means for feeding the adhesive into said exhaust connected to the piston to be actuated by movement of the piston.

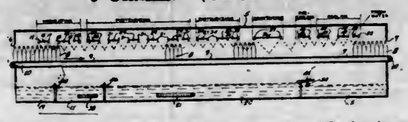
2,282,186
RESISTANCE WELDING ELECTRODE AND METHOD
Philip E. Henninger, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 2, 1940, Serial No. 321,877
5 Claims. (Cl. 219—4)

1. A spot welding electrode comprising, a body member of relatively high conductivity having an opening therethrough from the lower end to provide a passage for a cooling fluid and a relatively large substantially flat contact surface at the lower end, and a contact tip of molybdenum positioned in the opening with one end exposed to the cooling fluid and having the other end projecting from the contact surface of the body member which provides a shield a predetermined distance from the projecting end of the tip for engaging a relatively large area of a member being welded to prevent excessive penetration of the tip into the member being welded.



4. A method of resistance welding members which consists in initially applying current and pressure to a relatively small area of the members to be welded by means of electrodes at least one of which has a high resistance tip of relatively small area, and subsequently abruptly transferring the flow of current and the pressure from the high resistance tip to a surrounding relatively large area low resistance portion of said one electrode to limit the penetration of the said tip.

2,282,187
PROCESS OF PASTEURIZING LIQUIDS IN CONTAINERS
James L. Herold and William J. Nekola, St. Louis, and Frederick W. Wehmiller, Ladue, Mo., assignors to Barry-Wehmiller Machinery Company, St. Louis, Mo., a corporation of Missouri
Application August 11, 1939, Serial No. 289,512
9 Claims. (Cl. 99—249)

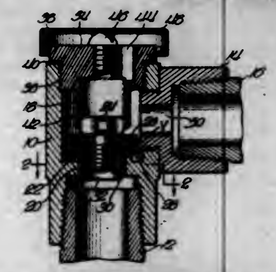


3. The process of pasteurizing liquids in traveling containers which comprises subjecting the traveling containers to successive sprays of heated liquid, while applying forcible mechanical pump pressure to a stream of the heated liquid, continuing the transmission of mechanical pump pressure from said stream of heated liquid to said sprays, and causing adjacent sprays to forcibly intersect while under the influence of the pump pressure, so as to produce forcible impacts at the intersections.

2,282,188
VACUUM BREAKER
Burchard E. Horne, Andover, Mass., assignor to Watts Regulator Company, Lawrence, Mass., a corporation of Massachusetts
Application June 26, 1939, Serial No. 281,114
2 Claims. (Cl. 251—118)

1. In a vacuum breaker, a casing, an inlet passage to said casing, a plurality of outlet passages from said casing, and a valve assembly comprising a headed bolt, a metal washer, a composition washer, and a nut retaining said washers

on said bolt, the head of said bolt engaging the wall of one of said outlet passages and being



guided thereby and said nut engaging the wall of said inlet and being guided thereby.

2,282,189
FRONT WHEEL INDICATOR FOR MOTOR VEHICLES
Philip F. Jackson, New York, N. Y.
Application February 6, 1940, Serial No. 317,473
4 Claims. (Cl. 116—31)

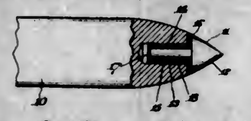


1. An indicator of the character described including an indicating structure, a train of gears connected to said indicating structure to cause the same to function, a gear ring continually meshing with one of the gears of the train of gears, a hollow hub rigidly secured to the steering column of a vehicle, means for rigidly securing said gear ring to said hub interiorly thereof, a stationary member extending through said steering column, said stationary member being secured to means fixed on the vehicle frame, a plate arranged in said hub functioning as a support for said indicating structure and train of gears, a plurality of pins carried by said stationary member loosely extending through said plate, and a spring surrounding each of said pins for resiliently spacing said plate from said stationary member.

2,282,190
MULTICELLULAR CEMENTITIOUS COMPOSITION
Joseph Jahjah, Beyrouth, Republic of Lebanon, Syria, assignor of one-third to H. A. Bitar and one-third to George E. Atiyeh, both of Portland, Oreg.
No Drawing. Application August 11, 1939, Serial No. 289,587. In the Republic of Lebanon November 16, 1937
2 Claims. (Cl. 106—86)

1. The process of manufacturing a multicellular block, slab, or the like, having a substantially uniform density throughout, comprising adding animal glue, ammonia alum, caustic soda and colophene to a quantity of hot water, adding a quantity of aluminum powder and cold water, vigorously agitating the solution until it is entirely beated into a stiff, persistent foam, mixing said foam into a mixture of cement and water, and then causing said mixture to set in the form of a block, slab, or the like with said foam creating hollow cells uniformly dispersed throughout the mass of material.

2,282,191
LOOM SHUTTLE
John J. Kaufmann, Jr., Greenville, S. C., assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 13, 1941, Serial No. 383,069
5 Claims. (Cl. 139—196)

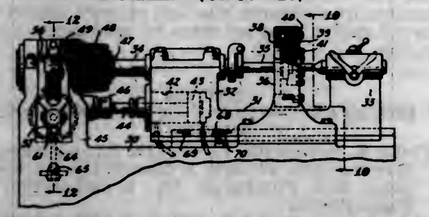


1. In a loom shuttle comprising a shuttle body and a metallic tip member mounted therein, said tip member having the usual nose portion and a shank for mounting the tip member in a bore in the shuttle body, a resilient member surrounding the shank of the tip member in said bore and having a flange portion extending between the nose portion of the tip member and the end of the shuttle body.

2,282,192
GRINDING WHEEL
Samuel S. Kistler, West Boylston, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
No Drawing. Application April 29, 1940, Serial No. 332,283
2 Claims. (Cl. 51—300)

1. An abrasive body comprising abrasive grains united by shellac and from 5% to 75% on the total bond weight of a resin which is the reaction product of polyhydric alcohol and polybasic acid, the sum of the primary hydroxyl groups on the alcohol molecule plus the carboxyl groups on the acid from which the resin is derived being not less than five, there having been at least substantially an equivalent amount of acid to react with the alcohol.

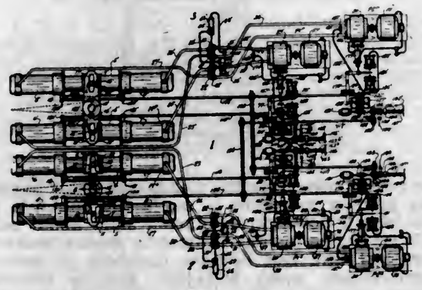
2,282,193
METHOD AND APPARATUS FOR CUTTING GEARS
Maurice A. Lambrix, Cleveland, Ohio, assignor to Gear Processing, Inc., Cleveland, Ohio, a corporation of Ohio
Application May 8, 1937, Serial No. 141,443
1 Claim. (Cl. 90—10)



In a machine for finishing gears, a frame, a spindle mounted on the frame for axial and angular movements and adapted to support a member in the form of an external gear, a holder carried by the frame having an aperture axially alined with the spindle and adapted to support a member in the form of an internal gear, one of said members being a gear and the other a gear shaped cutter, a spline guide for the spindle journaled in the frame and held against lengthwise movements, means for reciprocating the spindle axially, means operatively connected to the spline guide for applying a torsional thrust

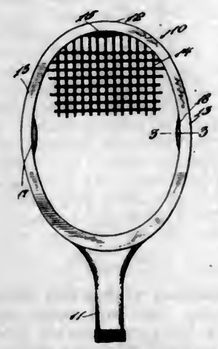
to said spline guide during axial movements of the spindle to yieldingly press the teeth of the tool against the gear tooth faces, means associated with said thrust applying means for reversing the direction of thrust, and adjustable means for limiting the extent of angular movement of the spline guide in each direction to confine the action of each profile forming tooth to a space of predetermined width.

2,282,194
STEERING GEAR
Robert C. Lamond, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 1, 1938, Serial No. 238,125
21 Claims. (Cl. 114—150)



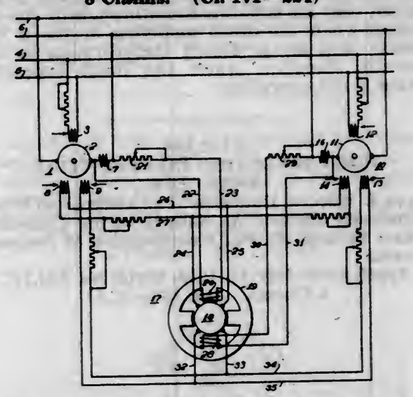
1. In a device of the class described, the combination of a fluid motor, power means for actuating said motor, a second fluid motor, a second power means for actuating said second fluid motor, means operated by said second fluid motor for controlling the operation of said first mentioned power means, and means operated by said first mentioned fluid motor for controlling the operation of said second mentioned power means.

2,282,195
RACKET
John M. Le Compte, North Attleboro, Mass.
Application February 5, 1941, Serial No. 377,465
5 Claims. (Cl. 273—73)



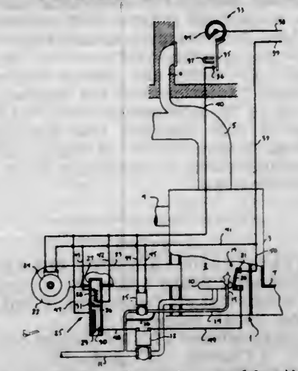
1. In a racket, a head frame carrying a plurality of strings, said frame being generally of a uniform radial dimension with a portion for a short extent of the length of the frame at the top thereof of a greater radial dimension than said other portions to resist bending at the said portions of greater dimension.

2,282,196
PARALLEL OPERATION OF DYNAMO-ELECTRIC MACHINES
Clarence Lynn, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 20, 1940, Serial No. 319,861
8 Claims. (Cl. 171—224)



1. In combination, a plurality of dynamo-electric machines connected in parallel, each of said machines being provided with main shunt field windings and cumulative and differential compounding field windings, and a single multiple circuit exciter for controlling the division of load between said machines, said exciter being disposed to control the relative degrees of excitation of the compounding field windings of the machines in accordance with their respective load currents.

2,282,197
COMBUSTION CONTROL SYSTEM
Meade J. Maynard, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application November 25, 1938, Serial No. 242,243
6 Claims. (Cl. 158—28)



1. In a control system, in combination, heating means, fuel supply means cooperating with said heating means, an energizing circuit for said fuel supplying means, draft supplying means for said heating means, means controlling said draft means and a draft responsive device controlling the fuel supply means, said device comprising means forming a passageway arranged to divert

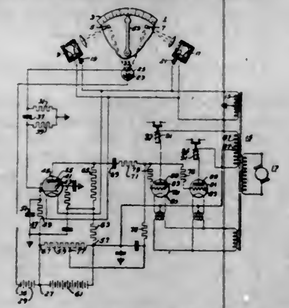
draft air from said draft supplying means, a heater and a heat actuated switching means in control of said circuit for said fuel supplying means arranged so that the draft through said passageway carries heat from the heater to the switching means for actuating the switching means to one position, the switching means being actuated to another position when not heated and said passageway forming means being so arranged that air is blown therethrough in one direction when the draft supplying means is operating and air is drawn therethrough in the opposite direction when the draft supplying means is not operating.

2,282,198

PHOTOELECTRIC DIFFERENTIAL ANALYZER

Slavo J. Murcek, Duquesne, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 13, 1939, Serial No. 284,147
6 Claims. (Cl. 250—41.5)



1. For use in comparing the optical properties of at least two regions, the combination comprising means for supplying alternating-current power, a first means for projecting radiation on one of said regions, a second means for projecting radiations on the other of said regions, means for energizing said first radiation projecting means with selected half-waves of said power-supply means, means for energizing said second radiation projecting means with selected half-waves of said power-supply means which are displaced in phase with reference to said first-mentioned half-waves and means responsive to the resultant radiation emitted by said regions and operative in accordance with the optical properties of said regions, the last-mentioned means being energized at all times during the comparing operation by radiation from at least one of said regions.

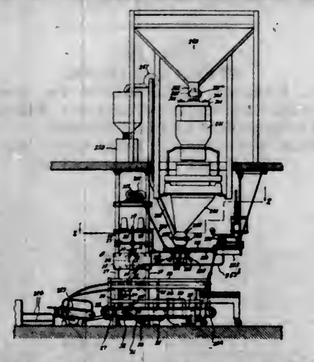
2,282,199

BAG FILLING AND CLOSING APPARATUS

Jacob J. Neuman, South Salem, N. Y., assignor to United States Patent Development and Royalty Company, South Salem, N. Y.

Application December 17, 1938, Serial No. 246,445
4 Claims. (Cl. 226—55)

1. In a bag filling machine, a hopper for feeding the filling material to the bag, a delivery tube forming the lower end of said hopper to guide the material into the bag, a pair of separable bag holding members positioned below said delivery tube and adapted to receive a bag mouth portion thereover, a bag clamp pivotally mounted on each of the bag holding members, a fixed member pivotally connected to one end of one of said bag clamps, a movable member pivotally connected to one end of the other bag clamp, a resilient connection between the bag holding members, operating means for said movable member to move one bag holding member away from the other against the reaction of the resilient connection whereby the bag clamps are tightened on the bag without undue stress on



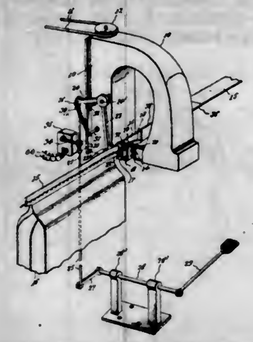
the bag mouth, vibrating means connected to said bag holding members to settle the contents of the bag, a downwardly flaring skirt about said delivery tube, flexible connecting means between the skirt and bag holding members to permit displacement upon agitation and to prevent escape of dust, a blower, a conduit between the skirt and the intake of said blower to remove said dust, and a dust collector connected to the exhaust of the blower.

2,282,200

TAPE CUTTER FOR BAG CLOSING MACHINES

Jacob J. Neuman, South Salem, N. Y., assignor to United States Patent Development and Royalty Company, South Salem, N. Y.

Application January 3, 1939, Serial No. 249,096
6 Claims. (Cl. 112—130)



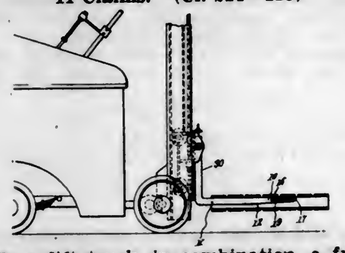
1. In combination with a bag sewing machine having a presser foot and rods supporting the presser foot, a thin replaceable stationary cutting blade, a support for said blade, a clamp to adjustably connect said blade support to the rods to position said blade adjacent said presser foot and adjacent the bag, and pressing means for engaging said bag with said blade thereby severing the tape and thread sewn over the mouth of the bag leaving substantially no surplus tape attached thereto.

2,282,201

LIFT TRUCK

Jacob J. Neuman, South Salem, N. Y., assignor to United States Patent Development and Royalty Company, South Salem, N. Y.

Application October 18, 1940, Serial No. 361,776
11 Claims. (Cl. 214—113)



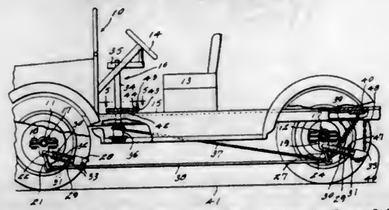
1. In a lift truck, in combination, a frame, a lifting member carried by an end of said frame and adapted for insertion between the faces of a two faced pallet, said lifting member having a peripheral channel and pockets at the ends of said channel, a buffer element disposed in said channel to project beyond said lifting member, and securing means for the ends of said buffer element, said securing means and ends of said buffer element being wholly disposed within said pockets.

2,282,202

GROUND ENGAGING VEHICLE BRAKE

Clinton Nichol, Morrison, Okla.

Application December 4, 1941, Serial No. 421,676
6 Claims. (Cl. 188—5)



1. A brake attachment for wheeled vehicles comprising clamps connected to the front and rear axles of a wheeled vehicle and provided with depending bearing portions, a shaft disposed beneath each of the axles and journaled in the bearing portions of the clamps attached thereto, said shafts having angularly projecting substantially parallel ends, ground engaging brake shoes provided with projecting, elongated sockets, each of said sockets engaging over an angular end of one of said shafts to combine therewith to form a telescoping standard, means for securing said sockets in adjusted positions relatively to said shaft ends, the intermediate portions of said shafts being provided with crank portions, a link connecting the crank portions of said shafts, and manually operative means connected to the crank portion of one of said shafts for turning the shafts to move the brake shoes into engagement with the ground.

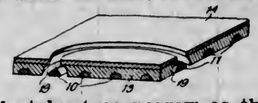
2,282,203

STENCIL

Edward O. Norris, Westport, Conn., assignor to Edward O. Norris, Inc., New York, N. Y., a corporation of New York

Application January 31, 1941, Serial No. 376,769
5 Claims. (Cl. 101—127)

1. A screen stencil comprising metal mesh fabric having an area of open mesh forming a design, said area being delimited by areas of solid sheet metal covering the fabric and filling the meshes where covered, said design compris-



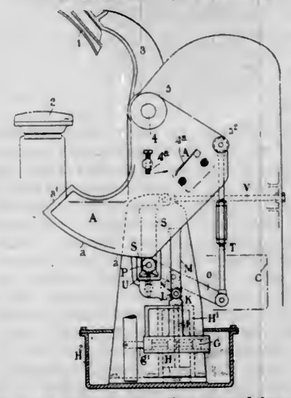
ing a band at least as narrow as the wires of the fabric, and passages leading from the bands around the wires and opening at the opposite face of the stencil.

2,282,204

GARMENT AND LIKE PRESSING MACHINE

Terence Herriot O'Brien, Kendal, England, assignor to Isaac Braithwaite & Son Engineers Limited, Kendal, England

Application October 19, 1938, Serial No. 235,839
In Great Britain October 28, 1937
5 Claims. (Cl. 38—40)



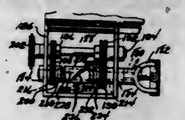
1. In a garment pressing machine of the type in which a swivelling pressing head is carried by an arm secured on a fulcrum shaft journalled in the frame of the machine and is brought into pressing contact with a stationary buck, the combination with the pressing head of a cam shaped lever affixed on the fulcrum shaft and having two faces, one concentric with the fulcrum shaft and the other inclined to the first face and providing a cam surface, a connecting rod pivoted at one end on the cam lever by which the latter is oscillated to impart movement to the fulcrum shaft to actuate the pressing head, a pivot on the other end of the connecting rod, a differential lever pivotally mounted at one end on said pivot, a roller carried by the other end of the differential lever and engaging the faces of the cam lever, means to constrain the linear movement of the roller and therefore of the end of the differential lever to a vertical direction, a link pivoted at one end to the differential lever at a point intermediate of the ends of the latter and means connected to the other end of the link for imparting a linear movement thereto to cause a movement to be imparted through the differential lever to the connecting rod to actuate the pressing head, the face of the cam lever concentric with the fulcrum shaft being of such a length that the roller carried by the differential lever remains in contact therewith until the pressing head has almost engaged the buck whereby the roller will not move in a linear direction and the end of the differential lever to which it is attached will remain stationary until the pressing head has nearly

engaged the buck, the movement imparted to the differential lever by the link during such period of the operation being an oscillatory one about the axis of the roller, and the other face of the cam lever being at such angle to the first face that it will be at an inclination to the vertical when the pressing head has almost engaged the buck whereby when the roller passes from one face to the other, since its movement is limited to a vertical direction, it will exert a lateral pressure on the cam lever which pressure will be considerably in excess of the force exerted through the differential lever and connecting rod for actuating the cam lever and pressing head during the movement of the latter from its open position until almost in engagement with the buck.

2,282,205
SPREADER

Eric H. Olsen, Salt Lake City, Utah, assignor of one-half to David B. Harman, Midvale, Utah

Application March 20, 1939, Serial No. 263,070
3 Claims. (Cl. 275—2)



1. In a dump truck having a traction wheel, a hopper mounted on the dump truck and having an opening in its bottom, a rotary feed member lying in said opening, a first frame pivotally connected with said hopper, a second frame pivotally connected with said first frame, a rotary friction member carried by said second frame and engageable with one of said traction wheels to be rotated thereby, a third frame carried by said hopper, a telescopic shaft having universal joints rotatably carried by said second and third frames, a driving connection between said friction member and said telescopic shaft, and means for pivoting said first and second frames to respectively move said friction member into and out of engagement with said one of the traction wheels.

2,282,206
SCREW-CUTTING DIE

Stanley Edward Opperman, Greenhill, Ganwick Corner, near Barnet, England

Application August 14, 1941, Serial No. 406,913
In Great Britain July 1, 1940
2 Claims. (Cl. 10—123)



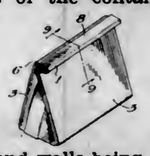
1. A screw threading die or tool consisting of a metal bar having a slot-like aperture constricted midway of its ends, screw cutting die teeth on opposite sides of the narrowest part of the aperture, the portions of the aperture on opposite sides of the die teeth forming clearance throats for receiving cuttings, and a second metal bar disposed lengthwise of and secured to the first mentioned bar and formed with a guide aperture alined with the central toothed portion of the aperture to receive the work.

2,282,207
CONTAINER AND METHOD OF MAKING THE SAME

Frank D. Palmer, Chicago, Ill., assignor to Kraft Cheese Company, a corporation of Delaware

Application January 6, 1939, Serial No. 249,566
6 Claims. (Cl. 229—61)

1. A container of the class described formed of a sheet material member folded intermediate its ends so as to provide a bottom wall of predetermined width and front and back walls extending upwardly from opposite edges of said bottom wall, opposite side portions of the member being folded toward each other from said front and back walls and having marginal portions turned outwardly and brought together with their inside faces contacting and adhesively united, said folded side portions constituting end walls of the container, the upper

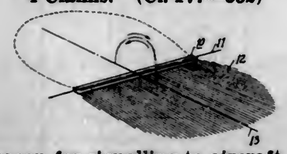


portions of said end walls being tucked between said front and back walls and the latter having their upper ends brought together to close the container, the front and back walls of the container having upper marginal portions folded to laterally extending position and one of said upper marginal portions having a lip extension refolded outwardly of the other upper marginal portion, and a protective member overlying the front, back and bottom walls only of said container.

2,282,208
BEACON

Erik Robert Parsberg, Lidingo, Sweden, assignor to American Gas Accumulator Company, Elizabeth, N. J., a corporation of New Jersey

Application October 17, 1938, Serial No. 235,324
In Sweden October 31, 1936
4 Claims. (Cl. 177—352)



1. A beacon for signalling to aircraft, comprising light producing means, elongated projecting means adapted to produce a wide and relatively thin and flat beam of light, means for mounting said projecting means for rotation about a substantially horizontal axis of rotation substantially parallel to the longitudinal axis of said projecting means, means for repeatedly rotating said projecting means back and forth within an angular path about said axis of rotation, and means for regulating said rotation so that said projecting means may project said beam above the horizontal plane of said axis for a longer period of time than below said plane.

2,282,209
TIME INTERVAL INDICATING DEVICE

William M. Pepper, Jr., and Philip E. Vrooman, Atlanta, Ga.

Application August 2, 1939, Serial No. 288,022
12 Claims. (Cl. 58—57)

2. A time interval indicating device for clocks and the like including a rotatable dial member bearing a graduated auxiliary time interval scale, said dial member being rotatably settable to bring a selected starting graduation of the auxiliary scale to registry with a hand of the clock in any hand position and indicating elapsed time by movement of the clock hand along the dial member to registry with succeeding graduations of said auxiliary scale, a central portion rigid with and projecting above the scale bearing portion of the dial member, a central shaft rotatably supporting the dial member and being movable axially relative to the dial member, and

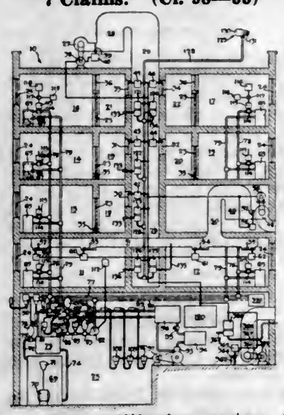


a suction cup on said axially movable shaft for supporting the dial member centrally over the face of the clock.

2,282,210
AIR CONDITIONING SYSTEM

Le Roy H. Plum, Collingswood, N. J., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application January 22, 1937, Serial No. 121,772
7 Claims. (Cl. 98—33)



1. In an air conditioning system for an enclosure, the combination of, means for supplying conditioned air under pressure to the enclosure, a pitot tube located outside of the enclosure and adapted to be pointed into the wind regardless of the direction of the wind, a vane for pointing the pitot tube into the wind, a differential pressure responsive controller having a pressure connection to the pitot tube and a pressure connection to the inside of the enclosure so as to respond to the difference in air pressure in the enclosure and the air pressure outside of the enclosure as affected by wind, and means controlled by the differential pressure responsive controller for controlling the conditioned air supplying means to maintain an enclosure air pressure which is greater by a substantially constant amount than the outside air pressure as affected by wind whereby infiltration of outside air is prevented regardless of wind velocity.

2,282,211
SULPHONE COMPOUNDS

Paul Pöhls and Robert Behnisch, Wuppertal-Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York

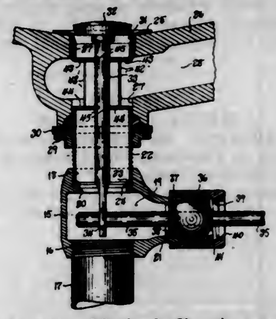
No Drawing. Application February 27, 1940, Serial No. 321,045. In Germany March 23, 1939
1 Claim. (Cl. 260—211)

A 4-acetylamino-4'-maltosoamino-diphenylsulphone.

2,282,212
DRAIN ASSEMBLY

Elton A. Pope, Waterbury, Conn., assignor to Chase Brass & Copper Co. Incorporated, Waterbury, Conn., a corporation

Application September 3, 1940, Serial No. 355,108
4 Claims. (Cl. 4—194)

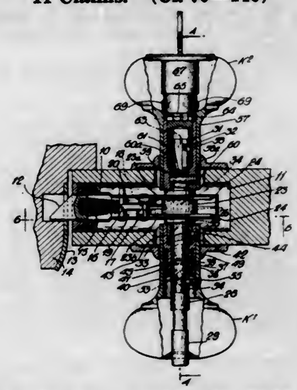


1. A drain-assembly including in combination: a stopper-unit comprising a stopper-head and a vertical stem depending from the said stopper-head; and a vertical tubular wrought-metal drain-head centrally receiving in its interior the stem of the said stopper-unit and having a cylindrical side-wall, the said drain-head being provided adjacent its upper end with a stopper-seat toward and away from which the stopper-head of the said stopper-unit is vertically movable, the said drain-head also having two openings in its side-wall from a margin of each of which openings an integral portion of the said side-wall is bent inwardly toward and into guiding relationship to the stem of the said stopper-unit to guide the vertical movement of the said stopper-unit and ensure the registration of the stopper-seat in the upper portion of the said drain-head.

2,282,213
DOOR LOCK

Henry D. Rolph, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut

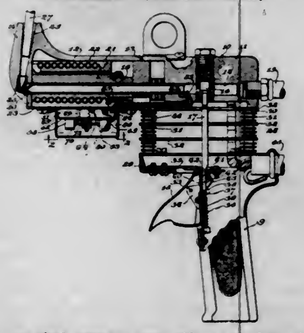
Application February 17, 1940, Serial No. 319,450
11 Claims. (Cl. 70—146)



1. In a lock of the class described, a hollow spindle, an outside knob fixed to one end of the spindle, an inside knob mounted on the other end of the spindle, means whereby said inside knob rotates a predetermined degree relatively

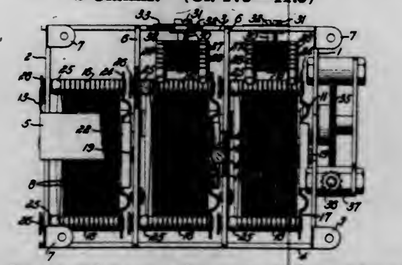
to said spindle prior to transmitting rotation to said spindle, a rod within said spindle and movable longitudinally thereof, a push button fixed on the inside end of said rod extending through an opening in the inside knob whereby it may be depressed, means whereby said rod when depressed locks said spindle against rotation, and means whereby rotation of said inside knob said predetermined degree relatively to said spindle moves said rod out of its depressed position.

2,282,214
METAL SPRAY GUN
Frans O. Albertson, Sioux City, Iowa, assignor to Albertson & Company, Inc., Sioux City, Iowa, a corporation of Iowa
Application July 6, 1937, Serial No. 152,104
7 Claims. (Cl. 91—12.2)



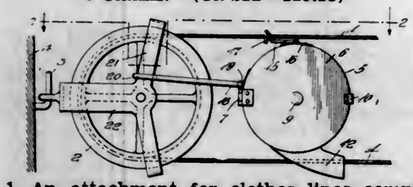
1. In a metal spray gun, the combination of a metal body provided with a metal well, an air nozzle carried by said body, a source of heat for said body comprising an electric heating element, thermostatic means for controlling said heating element, and means tending to cool said thermostatic means when the gun is operated, said thermostatic means being effective at one temperature during the operation of the metal spray gun, and at another temperature when the gun is hot but not operating.

2,282,215
CONDENSER
Frederick H. Drake, Boonton, N. J., assignor to Aircraft Radio Corporation, Boonton, N. J., a corporation of New Jersey
Application April 11, 1939, Serial No. 267,280
2 Claims. (Cl. 175—41.5)



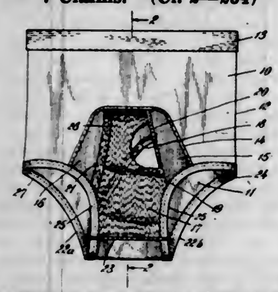
1. In a condenser, a frame including side rails joined by transverse members, a pair of parallel bars and stator plates secured thereto to form a main stator section, adjustable means cooperating with said bars to support said main stator section upon said frame and with said bars substantially parallel to said side rails of the frame, a trimming condenser stator section comprising stator plates parallel to a side rail and carried by posts secured to one of said bars, said posts being perpendicular to the supporting bar and to the side rails, and a rotor assembly for the trimming condenser comprising a stem extending through a side rail of the frame and carrying rotor plates.

2,282,216
CLOTHESLINE SHIELD
William G. Faulkner, Kirkland Lake, Ontario, Canada
Application January 15, 1941, Serial No. 374,562
In Canada January 25, 1940
5 Claims. (Cl. 211—119.18)



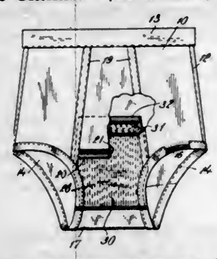
1. An attachment for clothes lines comprising a roll of flexible material held on a reel and arranged so that the flexible material will rest upon and cover a clothes line cable when same is operated, and a container to hold said reel, the container being adapted to be suspended from the upper flight of a double clothes line immediately above the lower flight of the clothes line and detachably anchored to a pulley about which the line passes to prevent shifting of the container longitudinally of the clothes line.

2,282,217
UNDERGARMENT
Alfred L. Flesh, Piqua, Ohio, assignor to The Atlas Underwear Company, Piqua, Ohio, a corporation of Ohio
Application November 22, 1940, Serial No. 366,545
7 Claims. (Cl. 2—234)



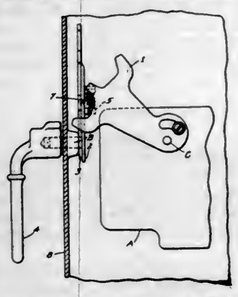
1. A nether garment having leg openings which comprises front and back sections connected along the sides of the garment, a fly section at the lower middle part of the front section including inner and outer overlapping flap members having upwardly-extending, oppositely-disposed, free lateral edges, said flap members being disposed so that the space between them and between their upwardly-extending edges affords access to the inside of the lower front portion of the garment, one of said flap members being appreciably more elastic in a direction vertically of the garment than the other flap member, the flap member of greater elasticity forming a part of the leg openings and extending below the other flap member and being connected to the central portion of the lower end of the back section, whereby the contractability of the elastic flap member tends to maintain the leg openings contracted.

2,282,218
GARMENT
Alfred L. Flesh, Piqua, Ohio, assignor to The Atlas Underwear Company, Piqua, Ohio, a corporation of Ohio
Application December 27, 1940, Serial No. 371,911
5 Claims. (Cl. 2—234)



1. A nether garment having leg openings which comprises front and back sections connected along the sides of the garment, a fly section at the lower middle part of the front section including upper and lower overlapping flap members having substantially horizontal free edges, said flap members being so disposed that the space between them and between their free edges affords access to the inside of the lower front portion of the garment, the lower of said flap members being appreciably more elastic in a direction vertically of the garment than the upper flap member, and said lower flap member being connected to the central portion of the lower end of the back section and forming part of the leg openings, whereby the contractibility of the elastic lower flap member tends to maintain the leg openings contracted.

2,282,219
DRIVE FOR ENCASED SWITCH DEVICES
Wilhelm Fries, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 1, 1941, Serial No. 391,272
In Germany January 25, 1940
4 Claims. (Cl. 200—153)



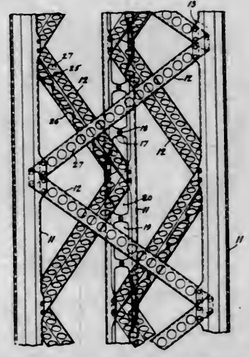
1. A front drive for an encased switching device with a trip-free coupling comprising, two levers having arms provided with a plurality of intermeshing teeth which move in planes at an angle to each other, one of said levers being mounted on the trip-free coupling and the other lever being mounted on the cover of the casing.

2,282,220
HEAD BAND FOR USE IN CONNECTION WITH BATHING CAPS
Anna L. Gage, St. Paul, Minn.
Application July 18, 1941, Serial No. 402,977
6 Claims. (Cl. 2—68)



3. A head band for use under bathing caps, comprising a band member formed with a central portion and two side portions angularly disposed thereto, said central portion being formed of outside plies of material and a ply strip of rubber between them, a resilient extruded member attached to the inside of the central member at the bottom edge thereof outside the plies and rubber and embodying a compressible filler, and means including a transverse slit through one of the members to permit the other member to be passed therethrough in wrapping around the head of the wearer and snaps on the ends of the band to secure the band in position on the head.

2,282,221
GIRDER
Henry B. Gibbons, Stratford, Conn., assignor, by mesne assignments, to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application March 23, 1940, Serial No. 325,622
11 Claims. (Cl. 189—37)

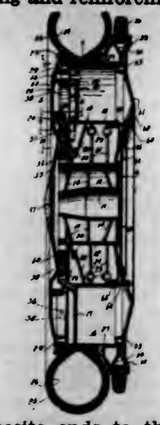


1. For an aircraft, a structural girder comprising at least two chord members, strut members connecting said chord members, the chord members as well as the strut members being made of sheet material and of open polygonal cross-section and having the opposed longitudinal edges at their open sides turned inwardly toward each other to lie substantially in a single plane, and suitably spaced transverse connections uniting the respective free inturned longitudinal edges of each of the chord members and the strut members, respectively, to increase the buckling strength of said chord members and strut members.

2,282,222
MOTOR VEHICLE WHEEL
Charles J. Goeske, Henryetta, Okla.
Application June 27, 1940, Serial No. 342,823
4 Claims. (Cl. 301—37)

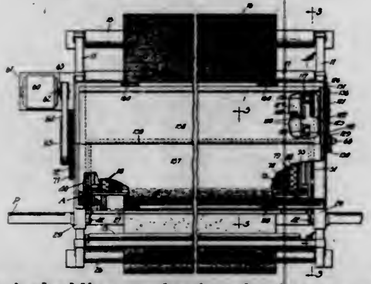
1. A wheel having a body, a rim thereon, a de-

tachable side plate extending outwardly beyond the rim to serve as a tire securing flange, and a rib extending inwardly from said side plate interiorly engaging and reinforcing said rim, a bail



pivoted at opposite ends to the inner surface of said rib for swinging into and out of the plane of the rib, and pin means carried by the bail for engagement with the body.

2,282,223
LOOM
Wallace Hamilton, Plainfield, N. J.
Application May 28, 1940, Serial No. 337,592
27 Claims. (Cl. 139—55)



1. A shedding mechanism for looms comprising in combination, a pair of members arranged in spaced superposed relation, means for mounting said members for movement toward and away from each other, heddles normally resting upon the lower of the members and slidably extending through and above the upper of the members, actuating means for alternately moving said members toward and away from each other, and means carried by the upper of the members and engageable with the heddles for selectively connecting the heddles to the upper of the members for movement therewith.

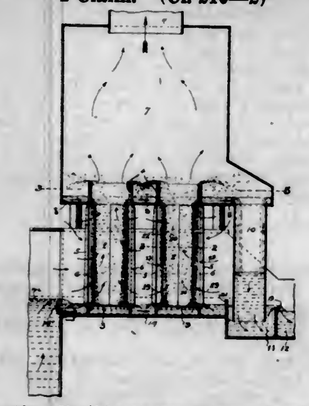
2,282,224
SHEET FEEDER
Charles W. Harrold, University Heights, Ohio, assignor to Harris-Seybold-Potter Company, Cleveland, Ohio, a corporation of Delaware
Application August 3, 1940, Serial No. 350,431
5 Claims. (Cl. 271—27)

1. In a machine for feeding sheets from a pile, the combination with sheet separating and forwarding means comprising a pair of suction means arranged to grip a sheet near its rear edge on opposite sides of the center of the sheet and move forward with the sheet, air blast devices arranged to blow air under a sheet held by said suction means during forward movement of the latter, and conveying means for removing for-



warded sheets from the pile, of a pair of pushers, one near each of said pair of suction means, arranged and operated to engage the rear edge of a sheet held by said suction means and to move forward in unison with said suction means to push the sheet forward toward said conveying means.

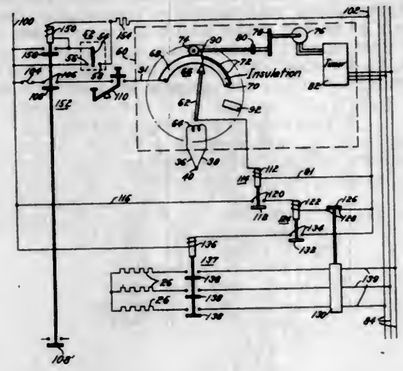
2,282,225
SEWAGE STABILIZER
Charles Gilbert Hawley, Chicago, Ill.; Hope Hawley Degenhardt and Virginia Taylor Hawley, executrices of Charles Gilbert Hawley, deceased, assignors, by mesne assignments, to Hawley Engineering Corporation, Cleveland, Ohio, a corporation of Ohio
Application September 17, 1937, Serial No. 164,367
1 Claim. (Cl. 210—2)



Subjecting liquid sewage in an atomized state to a whirling current of air in a confined space and resolving the atomized liquid while still confined into a mass under the influence of said current of air.

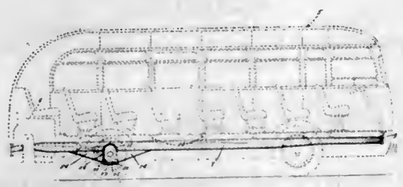
2,282,226
CONTROL MEANS FOR INDUSTRIAL HEAT-TREATING FURNACES
John G. Hoop, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 9, 1941, Serial No. 410,132
6 Claims. (Cl. 13—24)

1. A heat-treating furnace comprising, in combination, a wall structure defining a substantially enclosed heat-treating chamber, variably-operable temperature-changing means for said heat-treating chamber, temperature-responsive means responsive, in some manner, to the temperature in said heat-treating chamber, pressure-responsive means responsive, in some manner, to gas-pressure in said heat-treating chamber, and means controlled jointly by said tem-



perature-responsive means and said pressure-responsive means, for controlling the variable operation of said temperature-changing means.

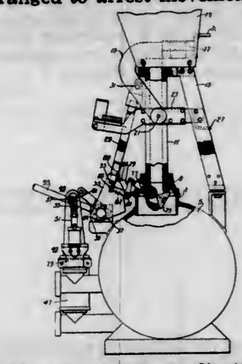
2,282,227
CHASSIS FRAME
Christian J. Hug, Highland, Ill.
Application January 6, 1941, Serial No. 373,365
3 Claims. (Cl. 280—106)



1. In a chassis frame for motor vehicles, a pair of spaced frame members, the said frame members being formed to provide oppositely disposed arcuate recesses opening from the lower edges thereof, a yoke having an upper arcuate portion fitted in each of the said recesses and its lower portion depending below the frame member, and reinforcing webs secured to the undersides of the frame members and abutting the sides of each yoke.

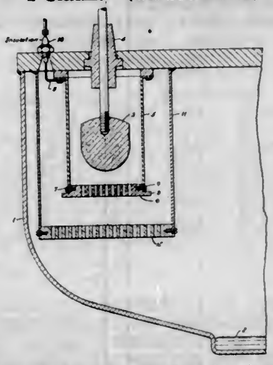
2,282,228
CIRCUIT INTERRUPTER
Frederick B. Johnson, Murrysville, and Andrew H. Bakken, Edgewood, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 24, 1940, Serial No. 362,596
17 Claims. (Cl. 200—82)

1. In a circuit interrupter, contact means movable to open and closed positions, an operating member for actuating said contacts, a driving device, a linkage operatively coupling said driving device and said operating member, and guide means for said linkage including a surface along which one element of said linkage slides when moved by said driving device, said surface being arranged to arrest movement of said link-



age in response to the application of a force thereon by said operating member.

2,282,229
SHIELDING OF GRID SUPPORTS
Robert R. Longwell, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 26, 1940, Serial No. 347,727
1 Claim. (Cl. 250—27.5)

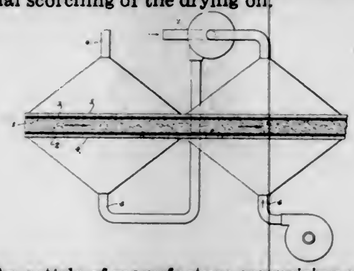


In a vapor-electric device having an anode and a cathode in an evacuated container, an anode protective device comprising a substantially tubular metallic shield about the anode, a graphite grid secured in said shield in spaced relation to the anode, a portion of said grid extending beyond the end of the support, a laterally extending lip on said grid, said lip covering the end of the shield and extending laterally beyond the shield.

2,282,230
MINERAL WOOL PRODUCT AND THE METHOD OF MAKING IT
William M. MacAlpine, Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application January 25, 1938, Serial No. 186,819
10 Claims. (Cl. 154—28)

1. The method of making a mineral wool product which comprises forming a thick layer, including matted mineral wool fibres, a drying oil binder distributed thereover, and a drying agent, and then passing, through the said layer, heated

air in amount largely in excess of the quantity required to set the drying oil, the temperature within the said layer being maintained during the passage of the air at a maximum temperature above 500° F. and below the temperature of substantial scorching of the drying oil.



5. An article of manufacture comprising a layer of matted mineral wool fibres and a binder distributed thereover, the binder consisting chiefly of perilla oil in set condition and being in the proportion of 1 to 6 parts to 100 parts total weight of the article.

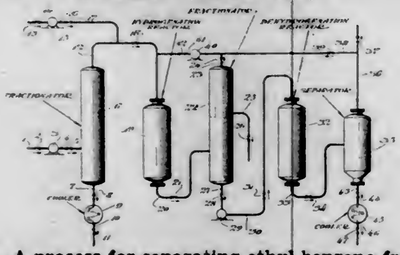
2,282,231

SEPARATION OF AROMATIC HYDROCARBONS

William J. Mattox, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application April 19, 1941, Serial No. 389,448

9 Claims. (Cl. 260—674)



1. A process for separating ethyl benzene from a mixture comprising essentially ethyl benzene and isomeric xylenes which comprises fractionally distilling said mixture to remove a relatively lower boiling fraction containing m- and p-xylenes and ethyl benzene from a residue of higher boiling o-xylene, subjecting said relatively lower boiling fraction to catalytic hydrogenation to form a naphthenic hydrocarbon mixture including ethyl cyclohexane and dimethyl cyclohexanes, separating said naphthenic hydrocarbon mixture by distillation into dimethyl cyclohexanes and an ethyl cyclohexane fraction, and catalytically dehydrogenating said ethyl cyclohexane fraction to give ethyl benzene.

2,282,232

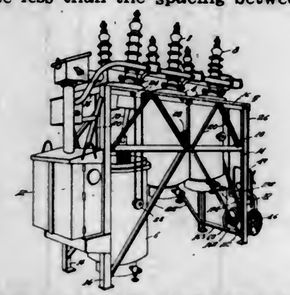
TANK LIFTER FOR CIRCUIT BREAKERS

Howard G. MacDonald, Murrysville, and James M. Cumming, Turtle Creek, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 28, 1940, Serial No. 342,888

18 Claims. (Cl. 200—150)

1. A device of the type described, comprising, a back plate, a main frame secured to said back plate, said main frame comprising a pair of spaced side plates and a bridging plate, an electric motor secured to said main frame between said side plates and beneath said bridging plate, said motor having a driving pinion gear, an auxiliary frame secured to said back plate and said bridging plate, said auxiliary frame comprising a pair of spaced plates and a bridging plate, the last said spaced plates being substantially parallel to the said side plates, but spaced apart a distance less than the spacing between the said



side plates, a rotatable shaft, bearing means for said shaft in each of the second-mentioned spaced plates, said shaft protruding outside of the second-mentioned plates, a cable drum on the outside of each of the spaced plates of said auxiliary frame, said drums being secured to said shaft for rotation therewith, reducing-gearing means between said pinion gear and said shaft for driving said shaft by said motor, and cover means cooperating with said frames for substantially encasing the last said means.

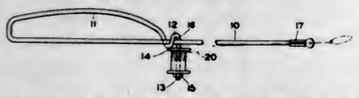
2,282,233

FISHING ROD

Alfred V. McFerron, Rocky River, Ohio

Application February 10, 1941, Serial No. 378,213

2 Claims. (Cl. 43—20)



1. A fishing rod comprising a wire having a straight pole portion, said wire having a portion bent back upon itself to form a handle, a portion of said wire beyond said handle being secured to said pole portion, and the free end of said wire extending beyond said securing point substantially at right angles to said pole portion to form a shaft for a winding spool.

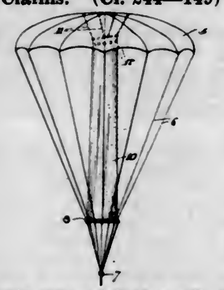
2,282,234

PARACHUTE

Charles A. Minich, Philadelphia, Pa.

Application April 11, 1940, Serial No. 329,013

3 Claims. (Cl. 244—149)



1. A parachute comprising a sail, shroud lines connected with the sail, a ring fixedly secured to said lines adjacent their lower ends, an air intake tube having its lower end attached to said ring, and means to suspend the upper end of the tube within the sail, said upper end being formed at an angle other than 90° to the axis of said intake tube.

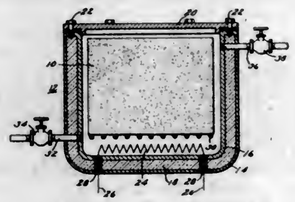
2,282,235

HYDROCARBON GAS TREATMENT FOR ELECTROGRAPHITIC MATERIAL

Lawrence E. Moberly, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 23, 1940, Serial No. 366,924

5 Claims. (Cl. 171—325)



3. An electrographitic brush comprising a porous body produced by graphitizing a molded carbonaceous block, and an addition to the porous body to provide for a predetermined conductivity, hardness and density, the addition comprising carbon deposited in the pores of the body by heat treatment thereof in a hydrocarbon gas atmosphere.

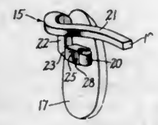
2,282,236

EYEGLASS CONSTRUCTION

George E. Nerney, Attleboro, Mass., assignor to Bay State Optical Company, Attleboro, Mass., a corporation of Maine

Application June 19, 1940, Serial No. 341,286

2 Claims. (Cl. 88—49)



1. In eyeglass construction, in combination, an eyeglass frame, a nosepad, a nosepad arm secured to said frame, said nosepad arm including rearwardly, downwardly, and forwardly extending sections, said rearwardly extending section extending rearwardly to the forward edge of said nosepad and then following a semi-circular path to the rear edge of said nosepad, said downwardly extending section extending downwardly adjacent the rear edge along one side of said nosepad so that its inner surface is juxtaposed to one of the substantially flat surfaces of said nosepad, and said forwardly extending section extending forwardly substantially across the side of said nosepad, said downwardly and forwardly extending sections lying in a single plane, and means connecting said nosepad to said forwardly extending section.

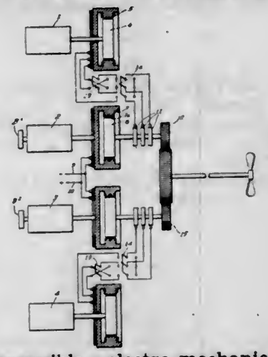
2,282,237

COMBINED ELECTRIC COUPLING AND REVERSE GEAR

John S. Newton, Drexel Hill, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 8, 1941, Serial No. 373,593

13 Claims. (Cl. 172—8)



12. A reversible electro-mechanical drive, comprising, in combination, a reversible prime mover, an electromagnetic coupling driven thereby having a salient pole, a direct current energized element, a damper winding on the pole faces of said salient pole member, and a wound rotor element, slip rings on said wound rotor driven element electrically connected to the wound rotor, a second prime mover, an alternating current generator driven thereby said slip rings being connected to the output terminals of said alternating current generator, and a load mechanically coupled to said wound rotor driven element, which load is capable of being selectively driven in either of two directions at a speed corresponding to that of the added frequency of the alternating current generator output and the frequency induced in said wound rotor driven element by the rotation of said reversible prime mover.

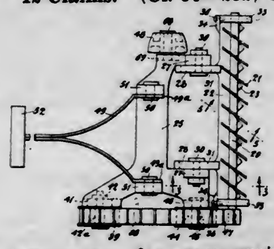
2,282,238

LAWN MOWER FOR GRASS, GRAINS, AND THE LIKE

Richard T. Newton, New York, N. Y.

Application October 31, 1940, Serial No. 363,635

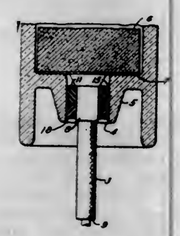
12 Claims. (Cl. 56—252)



1. In a lawn mower for grass, grains and the like, having a revolving horizontal shaft transversely of the direction of motion of the mower, a plurality of elliptical shaped cutters mounted on said shaft at spaced positions and at angular positions in relation to the axis of said shaft, a stationary bar cutter beneath said cutters and extending parallel to and forwards of the axis of said shaft, and cooperative cutting elements on said elliptical cutters and bar cutter whereby

when said lawn mower is moved forwards said elliptical shaped cutter will separate the grass, grains and the like to be cut into groups and then cut said grass, grains and the like without bending same materially and cutting approximately at right angles to the direction in which the mower is moving with the cutting being continuous during the major portion of the rotation of said cutters and the cutting action first taking place in one lateral direction and then in the other.

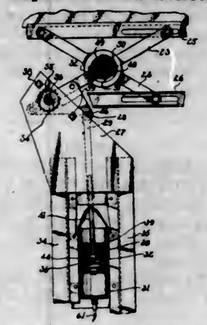
2,282,239
GENERAL BUSHING SEAL
Alert M. Opsahl, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 31, 1940, Serial No. 338,098
4 Claims. (Cl. 174—77)



1. A seal comprising a cylindrical plug, a tubular surrounding-member, the bore of the tube being larger than the plug, a rubber-like toroidal member, the normal thickness of the toroidal member being greater than the radial distance between the plug and the bore of the tubular surrounding-member whereby the toroidal member will frictionally engage said plug and said bore, respectively, as the parts are assembled by means of a relative axial displacement between the plug and the tubular surrounding-member, causing the rubber-like toroidal member first to roll inside-out, with the portion of its surface which was initially on the inside, rolled over to the outside of the torus in engagement with the bore, and finally causing the toroidal member to roll beyond such a point, and means for stopping the rolling of the toroidal member while the resilience of the rubber-like material still acts in a direction tending to cause the toroidal member to roll still further, whereby the parts are held forcibly in their final, stoppered position with the material of the toroidal member in considerable radial compression between the plug and the bore.

2,282,240
HYDRAULIC WINDOW REGULATOR MECHANISM
John B. Parsons, Toledo, Ohio
Application June 24, 1940, Serial No. 341,987
2 Claims. (Cl. 268—125)

1. The combination with a movable window having operating linkage associated therewith, of a power cylinder operatively connected to said linkage and comprising a casing, a piston in said casing, means to supply fluid to said casing and piston to cause relative movement therebetween, a resiliently mounted socket member in said piston, and a rod having an end portion universally coupled to said socket member, said socket member being movable with respect to said piston in response to an abnormal force to

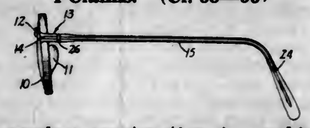


permit relative movement between said rod and piston.

2,282,241
MAKING DOLOMITE BRIQUETTES FOR USE IN THE PRODUCTION OF MAGNESIUM
John S. Peake, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application May 26, 1939, Serial No. 276,006
6 Claims. (Cl. 75—67)

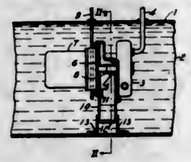
1. The method which comprises subjecting a calcined mixture of a magnesium-containing compound selected from the class consisting of magnesium carbonate and magnesium oxide and mixtures containing the same which are capable of being reduced to form magnesium in finely divided form together with a finely divided reducing agent for the said magnesium-containing material to a degassing temperature up to about 1000° C. for a period sufficient to remove from the said mixture moisture, carbon dioxide, and other materials capable of yielding gases under the conditions of thermal reduction of magnesium-containing compounds, thereafter compressing the said finely divided mixture into briquettes and then heating the so-formed briquettes to a hardening temperature below that at which thermal reduction commences, thereby to produce briquettes of improved mechanical strength and hardness.

2,282,242
EYEGLASS CONSTRUCTION
Axel Person, Attleboro, Mass., assignor to Bay State Optical Company, Attleboro, Mass., a corporation of Maine
Application November 25, 1940, Serial No. 366,964
4 Claims. (Cl. 88—53)



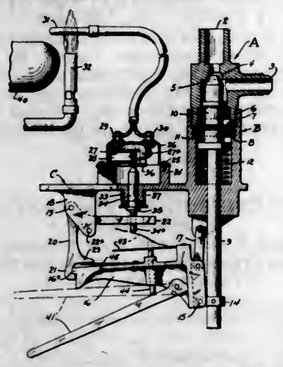
1. In eyeglass construction, in combination, a pair of non-metallic rims, bridge means connecting said rims, said rims having a pair of slots formed therein, a pair of non-metallic members, said non-metallic members being of a width substantially equal to the width of said slots and having preformed holes therein, a pair of metallic fittings fitted into said preformed holes, a cement securing said non-metallic members in said slots, and a pair of temples secured to said metallic fittings.

2,282,243
SUBMERGED MOTOR ASSEMBLY
Rawdon E. Rambo, Wilkinsburg, and Charles F. Jenkins, Forest Hills, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 16, 1940, Serial No. 324,380
7 Claims. (Cl. 172—36)



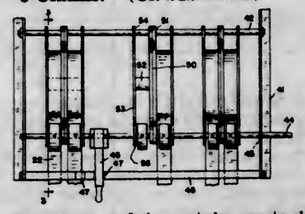
1. An electric motor driven assembly adapted to operate submerged in a liquid comprising an electric motor having a liquid-tight housing and a shaft extending from one end of the housing, a driven device connected to the motor shaft to be driven thereby, and a housing disposed between the motor and the driven device and enclosing the space between them around the shaft, the housing having a lower portion which extends a substantial distance below the motor and the driven device and having an opening only at its bottom.

2,284,244
HIGH PRESSURE SAFETY VALVE
Tallent H. Ransome, Berkeley, Calif., assignor to Ransome Company, Emeryville, Calif., a corporation of California
Application December 26, 1939, Serial No. 310,981
2 Claims. (Cl. 137—139)



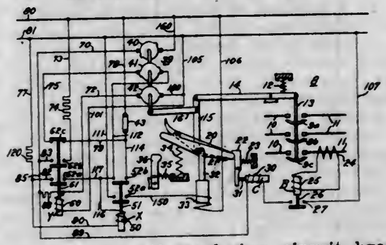
1. In an apparatus of the character described, a casing having a flow passage with a valve seat formed therein, a valve movable to and away from the seat to open or close the flow passage, a spring actuated plunger for holding the valve in closed position, a toggle link connected with the plunger, a cocking lever connected with the toggle link to move the plunger away from the valve to permit opening of the valve, a trigger engageable with the cocking lever when the valve is open, an electro-magnet, a thermo-couple actuated by a pilot burner to supply electric current to energize the magnet, a hammer actuated by and held in raised position by the magnet when energized, said hammer being released upon extinction of the burner and de-energization of the magnet, and when released striking the trigger and releasing the cocking lever, thereby permitting the spring actuated plunger to close the valve.

2,282,245
STRIP APPLICATOR
Harold M. Ratley, Highland Park, Mich., assignor to National Automotive Fibres, Inc., Detroit, Mich., a corporation of Delaware
Application January 16, 1939, Serial No. 251,276
6 Claims. (Cl. 242—55.3)



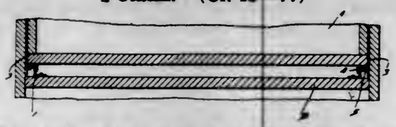
1. A device for applying strip material to a series of advancing articles which comprises a support having a fixed rod, and a spaced axially shiftable rod, shifting and indexing means comprising a handle on said shiftable rod and a rest having spaced notches for said handle; a plurality of plates secured to said shiftable rod at spaced points and slidable on said fixed rod; roll supporting pins projecting from opposite sides of said plates, said pins adapted to support rolls of strip material spaced by an amount substantially equal to the spacing of said notches; and independently releasable roll retainers cooperating with each of said pins, said retainers comprising plates pivoted to one of said rods and having hooked portions engaging said other rod, and adapted to prevent accidental removal of a roll from the corresponding pin.

2,282,246
AUTOMATIC RECLOSING CIRCUIT BREAKER SYSTEM
Maurice E. Reagan, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 18, 1939, Serial No. 251,484
11 Claims. (Cl. 175—294)



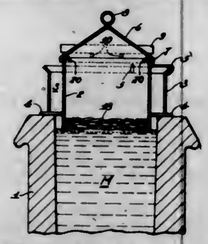
2. In an automatic reclosing circuit breaker system, a circuit breaker having an operating mechanism, means for closing said breaker, means responsive to abnormal circuit conditions for opening said breaker, a control relay effective when energized to initiate operation of said closing means, a cut-off relay energized when and during the period in which said breaker is closed and effective when energized to shunt out the winding of and thereby deenergize said control relay, a plurality of switch means for respectively controlling the energization of said control and cut-off relays and for shunting out the winding of and thereby deenergizing said cut-off relay, and linkage means connecting all of said switch means for operation in accordance with the movement of said breaker operating mechanism.

2,282,247
DRAWER GUIDE
Johnston F. Reid, Wilmington, Del.
Application February 3, 1941, Serial No. 377,233
1 Claim. (Cl. 45—77)



In combination with a drawer compartment and a drawer, a pair of rails in the bottom of the compartment and each of Z-shape in cross section with its upper flange extending outwardly, a pair of members connected with the bottom of the drawer and each of inverted channel shape in cross section, lugs struck upwardly from the outer flanges of the channel members and fastened to the drawer and a lug struck from each channel member and bent upwardly into engagement with the under face of the flange of the rail to prevent tilting movement of the drawer when partly moved from the compartment.

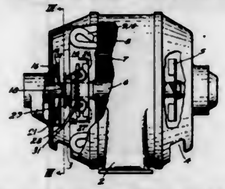
2,282,248
MAKING METALLIC INGOTS
Andrew R. Rowe, McKeesport, Pa., assignor to Harbison-Walker Refractories Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 21, 1941, Serial No. 399,133
7 Claims. (Cl. 22—147)



1. In a method of casting an ingot in a mold which comprises casting metal into the mold to a level such as to immerse the lower end of a tubular fire-resistant feeder member which extends from above the mold top downwardly into the mold opening with its mold-enclosed wall disposed close to but out of contact with the mold wall and whose portion extending above the mold is surrounded by a tubular fire-resistant sleeve member which forms an annular space therewith for reception of subdivided insulating material, the steps of applying to the upper open end of said feeder member a cap closure constructed and arranged to direct subdivided heat insulating material placed on it into said annular space at least at the back of the mold whereby the annular space may be filled uniformly, rapidly and easily without substantial spillage outside of the mold, and then introducing said granular material into said annular space.

2,282,249
CENTRIFUGAL DEVICE
Walter Schaelchlin, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 21, 1939, Serial No. 263,220
1 Claim. (Cl. 172—279)

The combination, with a relatively small, single-phase, approximately 110-volt motor of a type having an intermittent-duty, controlled circuit which has a highly reactive impedance and which is energized for only a very brief time at intermittent intervals, being deenergized at all other times, of an electrical contact-mechanism connected and operated so as to effect the aforesaid control over said intermittent-duty, con-

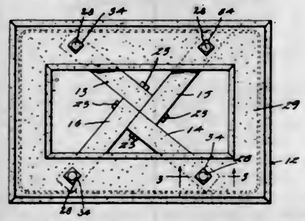


trolled circuit, characterized by said electrical contact-mechanism having cooperating, substantially ineffectively wiping, contact-making parts of dissimilar materials, one of said contact-making parts being a metallic member which has a copper base, and the other contact-making part being a metallic member which is basically silver.

2,282,250
VALUABLE VAT DYESTUFFS OF THE DIBENZANTHRONE AND ISODIBENZANTHRONE SERIES
Otto Schlichting and Adolf Hrubesch, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application May 28, 1940, Serial No. 337,662. In Germany June 24, 1939
6 Claims. (Cl. 260—353)

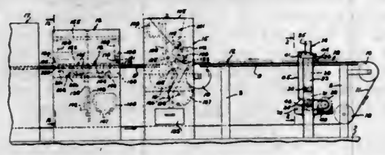
3. A vat dyestuff of the class consisting of Bz2,-Bz2'-diethyldibenzanthrone and Bz2,Bz2'-diethylisodibenzanthrone wherein up to four positions are occuped by halogen atoms selected from the class consisting of chlorine and bromine, the remaining positions by hydrogen.

2,282,251
PRECAST REINFORCED FOUNDATION FOR SIGNAL MASTS
Bernard J. Schwendt, Fort Thomas, Ky.
Application September 18, 1940, Serial No. 357,312
9 Claims. (Cl. 189—28)



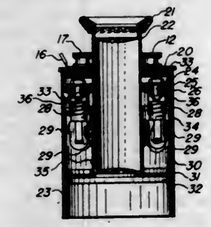
1. A mast foundation comprising precast head and base members of frame-like form disposed in superposed relation, pairs of upstanding right angularly disposed precast slabs interposed between said members, the outer side portions of said slabs bearing against spaced aligned points of the opposed faces of the bodies of said members, means for detachably securing together the slabs of each pair, means detachably securing said pairs of slabs together, and means detachably securing said slabs to said members, the said means for detachably securing the slabs together being disposed in superposed relation in the slabs and extending from the side of a slab and engaging in the inner side edge of an adjacent slab.

2,282,252
ARTICLE COATING APPARATUS
Walter J. Scott, Hinsdale, and George Stuhlfauth, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application June 25, 1940, Serial No. 342,218
21 Claims. (Cl. 91—43)



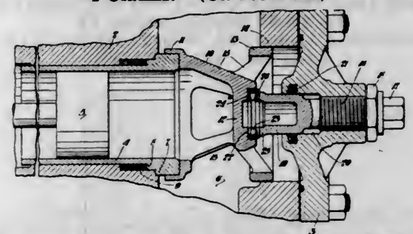
1. In a coating apparatus, a tray, a conveyor for moving the tray through the apparatus, means operated by the moving tray for depositing articles on the surface of the tray, means for depositing particles of vitreous enamel over the surface of the moving article bearing tray, and means responsive to the movement of the tray for successively lifting the articles from the tray, removing the enamel particles from the tray and then restoring the articles to the tray without disturbing the enamel deposit on the articles.

2,282,253
PHOTOMETER
Benjamin Martin Shaub, Northampton, Mass.
Application April 8, 1940, Serial No. 328,453
3 Claims. (Cl. 88—23)



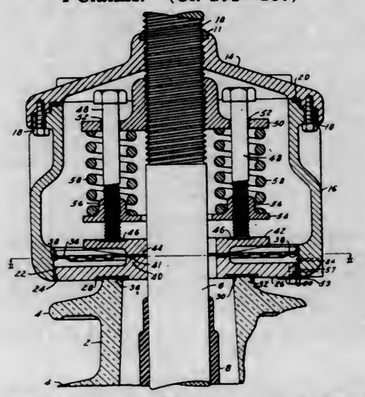
1. A photographic exposure meter of the character described comprising an opaque tube, open at one end and closed at the opposite, supporting coaxially a low-power microscope which extends, in part, through an opening in the opaque tube cover, a source of illumination surrounding the microscope within the opaque tube, a means of excluding the light emitted by said light source from entering the microscope directly and a diffusing screen between the light source and the open end of said opaque tube for distributing light from said source onto a focusing panel of a camera when the open end of said opaque tube is held adjacent to said focusing panel, the diffusing screen having a centrally located opening for observing the illuminated surface of the focusing panel through the microscope, the said light source being electrically connected to a calibrated potentiometer for changing the intensity of the light emitted by varying the applied voltage from an initially predetermined value, the initial predetermined voltage being obtained from any sufficient source by means of a suitable standard voltage regulating device.

2,282,254
SECURING MEANS FOR PUMP LINERS
John M. Shimer, Dallas, Tex., assignor to Oil Well Supply Company, a corporation of New Jersey
Application July 8, 1941, Serial No. 401,545
4 Claims. (Cl. 103—216)



1. Securing means for pump liners including a spacer having a central hub and a concentric annular portion spaced from the hub and embracing the liner, means for exerting a holding pressure on the spacer for securing the liner thereby, said means including a rotatable member movable toward and away from the spacer hub, and an anti-friction bearing disposed transversely between and in engagement with the hub and member for transmitting and annularly distributing the pressure of the latter to the spacer, the annular portion of the spacer engaging the liner being of greater diameter than said bearing.

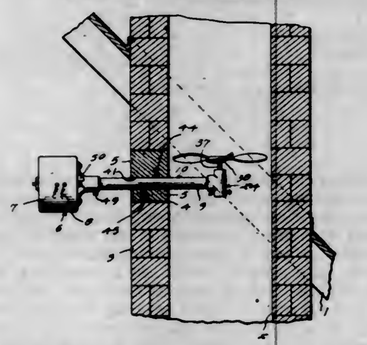
2,282,255
BUSHING CAP
Alexander A. Skvortzoff, Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 18, 1941, Serial No. 379,461
4 Claims. (Cl. 174—167)



1. In a bushing for high tension electrical apparatus including a tubular casing of insulating material having a stud extending axially therethrough and projecting beyond an end thereof, said stud having a portion thereof fixed with respect to a portion of said casing; a cap extending around and secured to the projecting portion of said stud and having an open bottom portion, a base plate proportioned to seat on the adjacent end face of said casing and fitting in movable relationship into said cap to substantially close the open bottom thereof throughout a predetermined range of movement therebetween, a flexible member disposed within

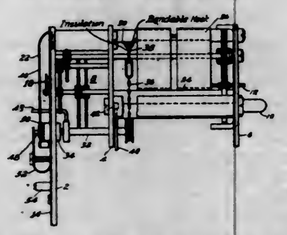
said cap for sealing the space between it and said base plate, and means for biasing said base plate against said tubular casing.

2,282,256
SUCTION DRAFT CREATING APPARATUS
Joseph M. Smelik, Jessup, Pa.
Application January 26, 1940, Serial No. 315,833
3 Claims. (Cl. 230—117)



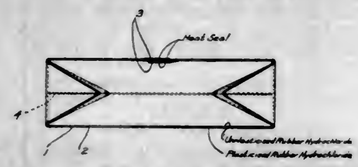
1. In a suction draft creating apparatus for chimneys, a rectangular suspension of block-like form for securing in the chimney wall, a horizontally disposed tubular supporting structure embedded intermediate its ends in, arranged transversely of and projecting in opposite directions from opposite sides of the suspension, said suspension providing for the inner terminal portion of said structure being arranged in the chimney and the outer terminal portion of said structure being arranged exteriorly of the chimney when the suspension is secured in the chimney wall, a fan structure suspended from the inner end of said supporting structure and including a horizontally disposed fan, operating means for the fan arranged in the fan structure, and a remote controlled driving means for said operating means including a part suspended on the outer end of the supporting structure and a rotatable part leading from the said other part to and driving said operating means, said rotatable part extending through said supporting structure.

2,282,257
THERMAL TYPE DEMAND METER
Benjamin H. Smith, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 12, 1940, Serial No. 345,095
5 Claims. (Cl. 171—34)



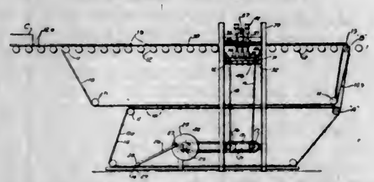
1. In a maximum demand device wherein a thermo-responsive element is displaced in an arcuate path in accordance with the magnitude of an electrical quantity to be measured, a rotatable member, an attaching member secured to said thermo-responsive element for displacement in an arcuate path therewith, a flexible member connecting said attaching member to said rotatable member to displace the latter said member in a predetermined rotary direction in proportion to the displacement of said thermo-responsive element, a thermo-responsive spring member to bias said rotatable member against the motion of said thermo-responsive element to compensate for displacements due to changes in ambient temperature, said attaching member being adjustable to change the effective radius of displacement of said thermo-responsive element to balance the effect of ambient temperature changes on said thermo-responsive element and said spring member, and means operatively associated with said rotatable member to indicate the maximum displacement thereof.

2,282,258
PLASTICIZED AND NONPLASTICIZED DOUBLE WALL BAG
James E. Snyder, Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware
Application June 7, 1940, Serial No. 339,336
4 Claims. (Cl. 229—3.5)



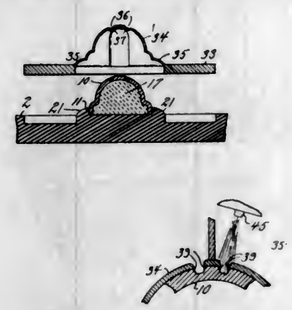
1 A double wall container, both walls being composed essentially of rubber hydrochloride, the outer wall being plasticized to increase its strength and the inner wall being unplasticized.

2,282,259
METHOD OF AND APPARATUS FOR PERFORATING GYPSUM LATH OR THE LIKE
Louis N. Sorensen, Port Clinton, Ohio, assignor to The Celotex Corporation, Chicago, Ill., a corporation of Delaware
Application June 8, 1939, Serial No. 278,212
10 Claims. (Cl. 164—89)



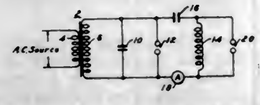
7. In a sheet perforating machine, the combination of a fixed die plate having a set of holes therein, a set of fixed plugs supported on one side of the die plate and projecting into said holes, a set of reciprocating tubular cutters at the other side of said die plate and movable into the holes around said plugs, whereby cuttings from a sheet will be forced into the cutters by the plugs, a set of fixed rods extending through the cutters and acting to eject the cuttings therefrom when the cutters are retracted, and a frame provided with cross bars reciprocating transversely across the ends of the rods to dislodge the cuttings therefrom after they are ejected from the cutters.

2,282,260
METHOD OF ELECTROFORMING MARKING TOOLS
Albert J. Spelker, Toledo, Ohio
Application April 11, 1940, Serial No. 329,124
4 Claims. (Cl. 204—11)



2. The method of producing a tool for marking a surface portion corresponding to a given sunken design of an article, comprising selecting a proof with the desired design, coating the proof with a stripping intermediate film of resist for ready release of counterproof therefrom, coating the proof with a conductive layer, electrodepositing the counterproof on the coated proof to such an extent to carry the deposition substantially beyond the edge portion of the design, stripping the counterproof from the proof, and trimming the beyond-the-edge portion of the design to form an offset fin so that it is adapted to register with the design.

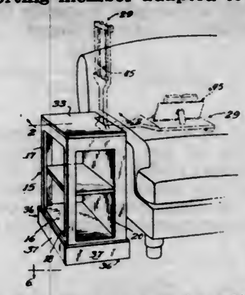
2,282,261
HIGH FREQUENCY TESTING APPARATUS
John R. Steegstra, Bridgeport, Conn., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 10, 1940, Serial No. 328,861
4 Claims. (Cl. 175—183)



1. In combination, an insulated electrical winding, means for producing an oscillating discharge, said means including a spark gap and condenser arranged to discharge therethrough, a second condenser, means for connecting said winding and said second condenser in series circuit across said discharge producing means for energization thereby, and means for indicating the reaction of said winding to said discharge.

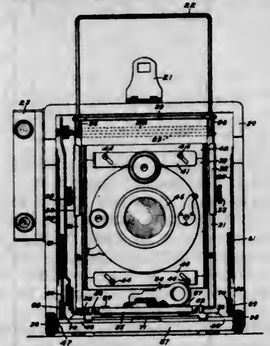
2,282,262
ARTICLE OF FURNITURE
Abe I. Steinberg, Chicago, Ill.
Application December 29, 1939, Serial No. 311,451
2 Claims. (Cl. 45—57)

1. An article of furniture including a vertical compartment, a movable supporting member adapted to be housed in said compartment, said supporting member having on one side thereof a book support and on the other side thereof a smooth surface, said supporting member adapted to be withdrawn vertically from said compartment and to be movable for presenting either the said book support or the said smooth surface, said supporting member adapted to be swung to



a horizontal position and to be adjustably movable in said position.

2,282,263
CAMERA WITH DIRECT-VISION VIEW FINDER
Oscar Steiner, Irondequoit, N. Y., assignor to The Folmer Graflex Corporation, Rochester, N. Y., a corporation of Delaware
Original application December 15, 1939, Serial No. 309,385. Divided and this application April 5, 1941, Serial No. 387,050
16 Claims. (Cl. 33—64)

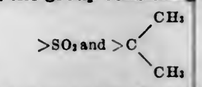


1. In a photographic camera structure, a view finder of substantially rectangular form having sides, top and bottom, said view finder being supported upon the bellows frame of the camera and collapsible into closed position when not in use and extensible to permit of direct vision of the object to be photographed, the view finder structure having, for the purpose stated opposite supporting tubes for the said sides of the view finder.

2,282,264
PROCESS OF PRODUCING SUBSTANCES HAVING TANNING ACTION
Edmund Stiasny, Nya Kungshult, Helsingborg, Sweden, and Hermann Schuette, Mannheim, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application March 8, 1939, Serial No. 260,504. In Germany March 17, 1938
6 Claims. (Cl. 260—42)

1. The process for the production of substances having tanning action, which comprises treating a sulphonic acid of a polynuclear aromatic hydrocarbon and an addition product of formaldehyde bisulfite on an aromatic com-

pound corresponding to the formula R—X—R wherein each R stands for a phenyl radical bearing an hydroxyl group and X stands for a bridge selected from the group consisting of



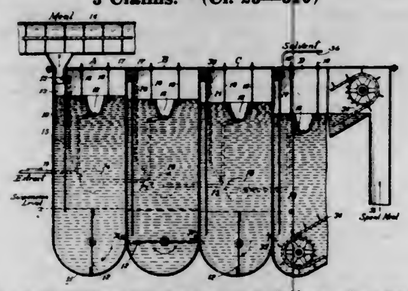
with urea and formaldehyde and improving the water-solubility of the product obtained by a treatment with an addition product of the aforesaid kind and an aromatic sulphonic acid selected from the class consisting of phenol sulphonic acids and cresol sulphonic acids and formaldehyde.

2,282,265

EXTRACTION APPARATUS AND METHOD

Lloyd C. Swallen, Argo, and Harold Reintjes, Berwyn, Ill., assignors to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey

Application August 17, 1939, Serial No. 290,606
3 Claims. (Cl. 23—310)



1. Extraction apparatus consisting of a series of units, in horizontal arrangement side by side, each comprising a tank the lower part of which provides a mixing zone and the upper part a settling zone; agitators in said mixing zones; said mixing zones communicating one with the other through orifices at a level below the settling zones; means for feeding material by gravity into the mixing zone of the first unit of the series; means for introducing solvent into the last unit of the series to extract solubles from said material; means for discharging extract from the settling zone of each unit into the mixing zone of the next unit in advance in the direction of the first unit, said discharge being at points to maintain liquid levels progressively higher in the direction of the first unit whereby a gravity flow of the material takes place through the apparatus; and means for removing spent material from the last unit.

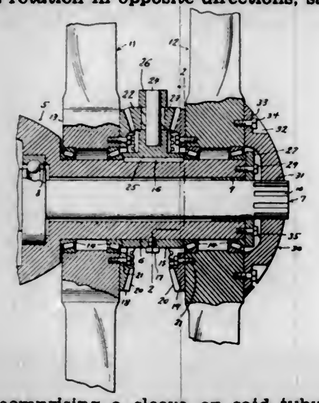
2,282,266

COAXIAL PROPELLER DRIVE AND MOUNTING

Henry S. Swaskey, Monessen, Pa.

Application November 8, 1939, Serial No. 303,465
2 Claims. (Cl. 170—135.5)

1. In combination with an engine having a stationary housing and a propeller shaft extending therefrom, a cylindrical tubular extension on said housing receiving said propeller shaft with the end of the propeller shaft extending axially therebeyond, a propeller having an annular hub rotatably mounted on said tubular extension, and an operative connection between said end of the propeller shaft and said propeller, another propeller having an annular hub rotatably receiving said tubular extension, said other propeller being positioned between the engine housing and the first propeller, and gear means operatively connecting the propellers for simultaneous rotation in opposite directions, said gear



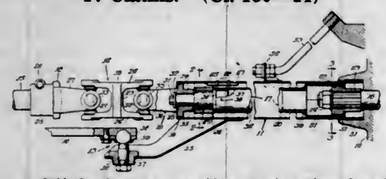
means comprising a sleeve on said tubular extension, said sleeve being located between the propellers, a radial boss on said sleeve including a radial stubshaft mounting a pinion, and ring gears on the facing sides of the hubs of the propeller meshed with said pinion.

2,282,267

TRACTOR HITCH

Carl E. Swenson and Fred M. Potgieter, Rockford, Ill., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application December 1, 1939, Serial No. 307,070
17 Claims. (Cl. 180—14)



1. A hitch for connecting a tractor having a rearwardly directed power take-off shaft to an agricultural implement having a forwardly directed power receiving shaft comprising a tubular tongue attached at one end to the implement coaxially with said power receiving shaft, and having at its other end a pivotal draft connection with the tractor, a propeller shaft housed in said tubular tongue and thereby protected against fouling, having at one end a longitudinally adjustable driving connection with said power receiving shaft and at its other end a universal drive connection with said power take-off shaft, and a bearing in which said other end of said propeller shaft is journalled, said bearing being supported in said tongue.

2,282,268

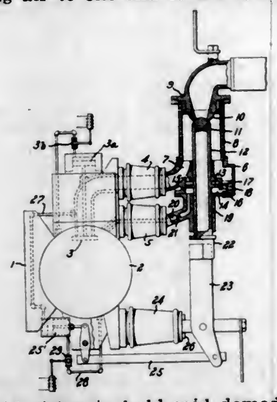
ELECTRIC CIRCUIT BREAKER

Hans Thommen, Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland

Application February 8, 1940, Serial No. 317,946
In Germany May 6, 1938
4 Claims. (Cl. 200—148)

1. A circuit breaker comprising means defining an arc-extinguishing chamber, a nozzle contact

carried by one wall of the chamber, a sliding member having a domed contact for seating against said nozzle contact, a cylinder and piston supporting said sliding member for movement axially of the chamber, means for continuously admitting air to one end of the cylinder to dis-



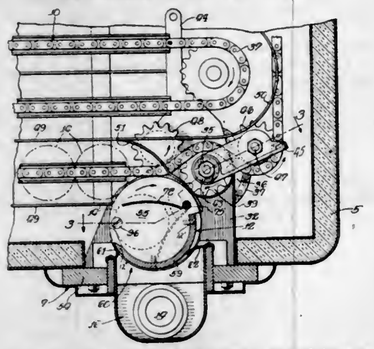
place said piston to hold said domed contact in firm engagement with said nozzle contact, a port connecting the other end of the cylinder to said chamber, means responsive to pressure within said chamber to vent the first end of the cylinder, and valve means for admitting pressure air to said chamber.

2,282,269

VENDING MACHINE

Frederick F. Tone, Montclair, N. J., assignor to Kalva Venders, Inc., Chicago, Ill., a corporation of Illinois

Original application September 25, 1939, Serial No. 296,459. Divided and this application July 15, 1940, Serial No. 345,566
15 Claims. (Cl. 194—10)



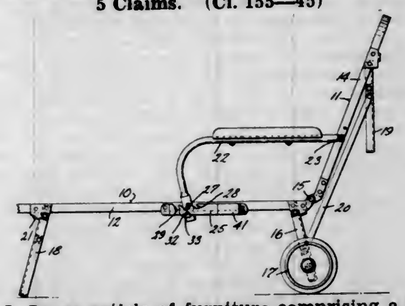
1. In a coin actuated vending machine, a casing, an article ejecting mechanism therein, electrically controlled power means for initiating actuation of said mechanism, a coin control mechanism including a frame, a coin actuated switch connected to said electric control means, a shiftable coin receiving and retaining member on the frame and means for initially holding a coin therein for a temporary period and in operating position on said switch for initiating operation of said ejecting mechanism, a cash collecting means operable by said ejecting mechanism after ejection of said article for shifting the coin retaining member to coin collecting position.

2,282,270

ARTICLE OF FURNITURE

Joseph M. Vallone, Buffalo, N. Y., assignor to Barcalo Manufacturing Company, Buffalo, N. Y.

Application July 30, 1940, Serial No. 348,469
5 Claims. (Cl. 155—45)



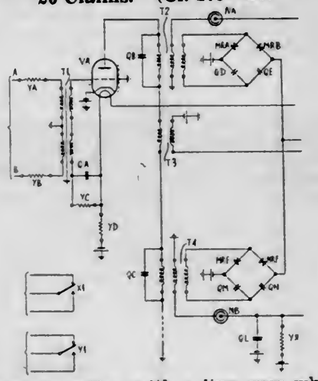
5. In an article of furniture comprising a bottom section and a back section which is hinged at its lower end to said bottom section to swing to different adjustments, a brace pivoted to a side portion of the back section above its hinge connection, said brace extending forwardly from said back section above the bottom section and having a front end portion extending downwardly to said bottom section, a guide on said bottom section in which the front end portion of said brace is confined but is movable forwardly and rearwardly by adjusting movements of said back section, said guide having a shoulder which a part on said brace engages for holding said back section from rearward movement, and a releasing device which is mounted on said bottom section and is shifted from and to a releasing position by operating the back section to shift said brace forwardly and rearwardly, said releasing device having a portion which when the device is in said releasing position engages said brace and holds said holding part of the brace from engagement with said shoulder to release the back section for rearward adjustment.

2,282,271

ELECTRICAL SIGNALING SYSTEM

Teseo Bruno Dante Terroni and Joseph Bernard McCusker, Liverpool, England, assignors to Associated Telephone and Telegraph Company, Chicago, Ill., a corporation of Delaware

Application October 19, 1938, Serial No. 235,746
In Great Britain November 12, 1937
20 Claims. (Cl. 179—84)



1. In combination with a line over which cur-

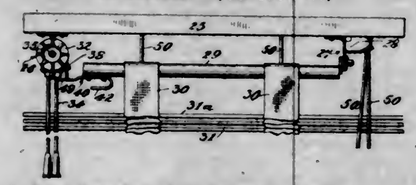
rents of audio-frequency are transmitted at various power levels, a grid controlled thermionic valve, means associated with said line for receiving said audio-frequency currents and applying them to the control grid of said valve, means for operating said valve in an overloaded condition to act as a current limiting device having a substantially constant output, thereby to retransmit at a substantially constant power level the audio-frequency currents applied to said grid, two responding circuits connected to the output of said valve, one of said circuits being responsive only to currents of a certain frequency while the other is responsive to currents of another frequency, a responding device controlled conjointly by said two circuits, said one circuit having means tending to operate said device responsive to the receipt of currents of said certain frequency and said other circuit having means tending to prevent the operation of said device responsive to the receipt of currents of said other frequency, and means for rendering said preventing means ineffective responsive to the concurrent receipt of currents of both of said frequencies if the currents of said certain frequencies are predominant.

2,282,272

VENETIAN BLIND TILTING MECHANISM

August F. Waltzinger, Elmhurst, Long Island, N. Y., assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y., a corporation of New York

Application December 31, 1941, Serial No. 425,074
20 Claims. (Cl. 156—17)



1. In a Venetian blind having a tilt-bar, a cord pulley, a cord passing over the pulley to rotate the pulley, and mechanism operatively connecting the pulley with the tilt-bar to tilt the bar in response to rotation of the pulley; the improvement which comprises: the tilt-bar being mounted for upward movement above normal position by pressure exerted by extreme raising of the blind, and means included in said mechanism and responsive to said upward movement for breaking the operative connection between said pulley and said tilt-bar, whereby the pulley may be rotated independently of the tilt-bar for adjustment of the cord passing over said pulley.

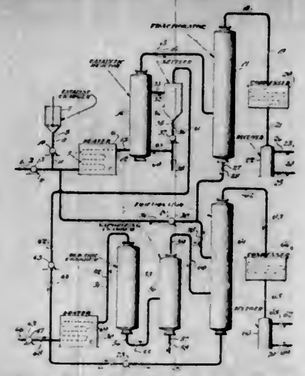
2,282,273

CONVERSION OF HYDROCARBONS

Kenneth M. Watson, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application June 7, 1940, Serial No. 339,281
7 Claims. (Cl. 196—52)

1. A process for the conversion of hydrocarbon oil which comprises catalytically cracking a relatively light oil in the presence of a powdered cracking catalyst and under a pressure sufficient to maintain a substantial portion thereof in liquid phase, separating vapors from catalyst containing liquid reaction products, returning one portion of said catalyst containing liquid reaction product to the catalytic cracking step, subjecting another portion of said liquid reaction products substantially free of catalyst to pyrolytic conversion together with a residual hydrocarbon oil, fractionating cracked vapors from the



last mentioned conversion step to separate reflux condensate from the fractionated vapors, and supplying at least a portion of said reflux condensate to the catlytic cracking step.

2,282,274

"VINYON" BANDAGE AND METHOD OF MAKING AND SETTING IT

Abby Henry Weiswasser and Frederick Weiswasser, Philadelphia, Pa.

No Drawing. Application August 8, 1941, Serial No. 405,990
3 Claims. (Cl. 128—156)

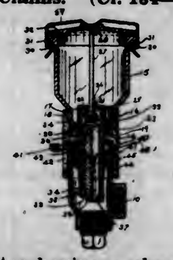
1. The method of making and setting a bandage, which consists in covering rubber strands, while in a stretched condition, with "Vinyon" in a moist condition to form yarns with elastic cores, forming a fabric having included in its yarns the "Vinyon" yarns having elastic cores, and contracting and setting the "Vinyon" of the "Vinyon" covered cores around such elastic cores by the application of a "Vinyon" setting agent to the bandage, while in place around a part to be treated, to control the elasticity and stretch of the elastic cores.

2,282,275

LUBRICATOR

Arthur E. Westburgh, Jamestown, N. Y.

Application January 25, 1941, Serial No. 376,004
8 Claims. (Cl. 184—82)



1. A lubricator having a sleeve attachable to an oil cup, an inwardly extending annular flange on said sleeve, a reservoir attached to said sleeve, an oil supply conduit depending from said flange having passage means to establish communication between the reservoir and the oil cup, valve means to control passage of oil from the reservoir

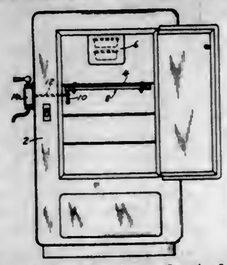
through the conduit, a removable housing for said valve means seated on said flange and contacted by the reservoir to maintain the housing in place, a closure for the reservoir normally maintaining said valve means in open position, and means urging the valve means toward closed position.

2,282,276

WATER COOLING DEVICE

Melbourne H. White, Miami, Fla., assignor to Koolerkoil Company, a corporation of New Jersey

Application July 29, 1940, Serial No. 348,201
2 Claims. (Cl. 62—89)



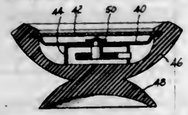
1. A water cooling device adapted to be applied to a household refrigerator having a shelf therein in the form of a metal wire grid, said device comprising a coil having spaced metallic water conducting tubes, attaching means extending over the wires of said shelf and projecting downward between the same and between adjacent water conducting tubes of the coil, elements secured to said attaching means and extending transversely of the water conducting tubes beneath the same and serving to hold said coil closely adjacent the lower surface of the shelf and in heat conducting contact therewith and means for supplying water to and for removing water from said coil.

2,282,277

THERMOMETER

Elmer S. Whittier, Bristol, Conn., assignor to The Cooper Oven Thermometer Company, Pequabuck, Conn., a corporation of Connecticut

Application September 20, 1940, Serial No. 357,600
8 Claims. (Cl. 73—367)



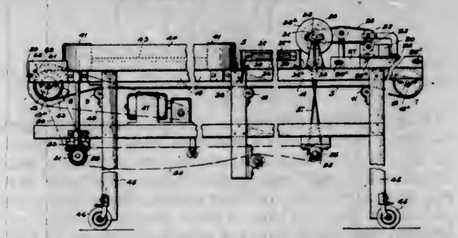
7. In a thermometer, a cup-shaped housing having a bottom wall and a thick side wall of elastic shock absorbing material, the side wall being internally provided with an annular groove near the open end of the housing to leave an overhanging elastic lip adapted to be manually stretched, a cup-shaped dial plate having its bottom wall spaced from the bottom wall of the housing, the side wall of the dial plate lying within the side wall of the housing and having an outwardly projecting annular rim, heat responsive means in the space between the two bottom walls for actuating a pointer on the outer side of the dial plate, a transparent disc seated flatwise on said outwardly projecting rim, the outer periphery of the disc and the annular rim being entered within the groove upon distortion of said elastic lip and the lip holding said seated parts together, and all of the foregoing elements except the elastic material lying within the outline of the latter and protected thereby.

2,282,278

PACKAGE CONVEYING, CLOSING, AND SEALING MACHINE

James R. Wysong, Richmond, Va., assignor to Larus & Brother Co., Inc., Richmond, Va.

Application December 13, 1938, Serial No. 245,530
5 Claims. (Cl. 93—6)



1. In a machine for conveying, closing and sealing cartons, a conveyor, means defining in conjunction with the conveyor a runway for the cartons, means for sealing the flaps of the cartons while being conveyed, and means at the discharge extremity of the conveyor adapted to receive the cartons from the conveyor, said receiving means including a bodily movable and rotatable member on which each carton is deposited by the conveyor and propelled thereover through contact with succeeding cartons.

2,282,279

LIMITER LUG

Constantine P. Xenis, Little Neck, N. Y., assignor to Consolidated Edison Company of New York, Inc., New York, N. Y., a corporation of New York

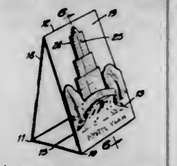
Application April 8, 1941, Serial No. 387,545
11 Claims. (Cl. 200—135)



1. An integral limiter lug formed of electrically-conductive material, flat at one end to form a bus section, the opposite end of the lug being tubular to provide a cable connector, the intermediate portion of the lug between the bus section and the cable connector being a continuation of the flat formation, one end of said intermediate portion merging into the connector, the sides of the intermediate portion being cut away adjacent the inner ends of the connector and the bus section portions, the intermediate portion for a predetermined length between the bus section and the connector having end portions of relatively narrow width and a portion gradually widening from such portions of narrow width to an inter-

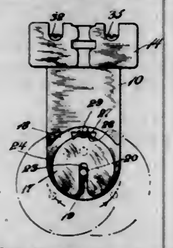
mediate portion of relatively increased width, the said formed intermediate length providing a fuse section.

2,282,280
FOLDING DISPLAY DEVICE
Howell J. Yogg, Newark, N. J.
Application June 28, 1940, Serial No. 342,923
2 Claims. (Cl. 40—124.1)



1. A foldable display device comprising a single blank of cardboard or the like folded upon parallel score lines into tent-shape to provide a base panel, upwardly converging front and rear panels, and a cut-out picture panel, the front panel having a slit portion which projects outwardly beyond the plane thereof when the blank is folded into tent-shape, said cut-out picture panel overlapping a portion of the slit front panel clear of the slit portion and being fixedly secured flatly thereto for composite blending of the cut-out picture panel with the slit front panel.

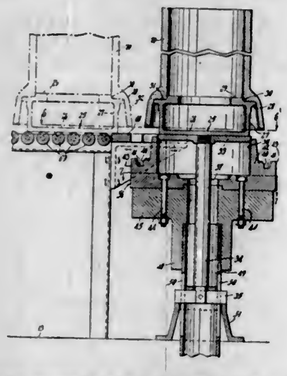
2,282,281
LAMP SOCKET
John F. Cavanagh, Providence, R. I., assignor to Guy H. Burt, Providence, R. I.
Application February 21, 1941, Serial No. 380,017
3 Claims. (Cl. 173—328)



1. In a socket for engagement with a lamp element provided with a pair of contact pins, a base member of electrical insulating material provided with a face, a pair of contacts in said base member, a slot in said face extending thereunto from one edge thereof and having straight line side walls leading to one of said contacts for guiding one of said lamp contact pins into engagement with one of said contacts, and a second slot in said face extending generally laterally of the first slot and having a curved guide surface through which the other lamp contact pin may move into engagement with the other contact upon rotation of said lamp element with the first lamp contact pin as a pivot.

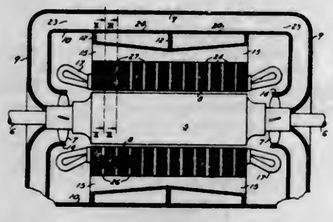
2,282,282
METHOD AND APPARATUS FOR MANUFACTURING PIPE
Earle Kenneth Hamlen, Akron, Ohio, assignor to The Robinson Clay Product Company, Akron, Ohio, a corporation of Maine
Application August 26, 1941, Serial No. 408,342
10 Claims. (Cl. 25—39)

3. In apparatus for manufacturing plastic pipe having a socket end, in combination, a press including a die and a die core, a socket ring engaging said die core, a former engaging said die and said socket ring, a former support secured to said former, a rod depending from said former support and having an elongated opening therein, a second rod supporting said socket ring and extending partially through said first rod, a stop



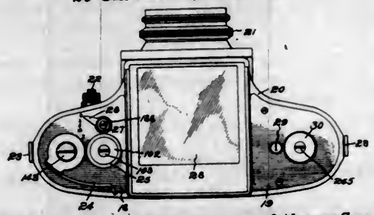
arm on said second rod and extending through said slot, means for lowering said rods, socket ring, former and former support in unison for a predetermined distance, and an obstruction arranged in the path of said stop arm to retard movement of said socket ring and said record rod while continuing the lowering of said first rod and said former and former support.

2,282,283
DYNAMOELECTRIC MACHINE
Mathias Henter, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application August 3, 1940, Serial No. 350,736
8 Claims. (Cl. 171—252)



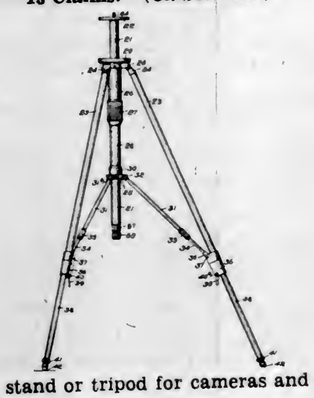
1. In a dynamo-electric machine, a laminated stator core provided with winding slots along its inner periphery, said core being provided with radial ventilating spaces between adjacent groups of core laminations, circumferentially spaced and axially extending ducts for supplying ventilating fluid to certain of said radial ventilating spaces, outlet chambers between adjacent ducts and open to said radial ventilating spaces, means for directing a portion of the ventilating fluid from said supply ducts to cause it to pass radially inward through said radial ventilating spaces along the entire circumference of the slotted inner portion of said core, and means for directing another portion of the ventilating fluid from said ducts to cause it to pass therefrom radially inward and thence outward in said radial ventilating spaces and to discharge into said chambers.

2,282,284
REFLEX CAMERA
Edson S. Hineline, Rochester, N. Y., assignor to The Folmer Graflex Corporation, Rochester, N. Y., a corporation of Delaware
Original application August 5, 1939, Serial No. 288,505, now Patent No. 2,233,345, dated February 25, 1941. Divided and this application January 12, 1940, Serial No. 313,542
26 Claims. (Cl. 95—42)



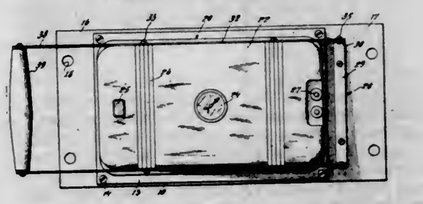
1. In a photographic camera of the reflex type having a casing, an objective lens, a pivoted mirror frame, a shutter-curtain winding shaft having a winding gear, said shaft having a cam formation, and means for resetting the mirror by the winding movement of said shaft, including a projection extending from the mirror frame, a pivoted reset-lever arm engaging said projection from the mirror frame, a second lever arm pivoted co-axially with said reset-lever arm and engaging said arm in one direction of rotation, spring means to press the second lever arm toward said reset-lever arm in the engaging direction, a mirror reset partial helical cam formation upon said curtain winding shaft to engage said second lever arm on one side to drive it in the engaging direction for resetting the mirror frame when the curtain is rewound, and a third lever co-axially pivoted with said other two lever arms and having a part extending into position to be engaged by shutter release means, another part engaging the mirror frame to hold it in set position, said spring means permitting the second lever to be engaged by the other side of the helical cam and to be driven in the non-engaging direction until it passes over the cam, whereupon the spring means places the lever in position to be driven by the first cam side to set the mirror.

2,282,285
CAMERA STAND OR TRIPOD
Harold T. Olson, Rochester, N. Y., assignor to The Folmer Graflex Corporation, Rochester, N. Y., a corporation of Delaware
Application May 16, 1941, Serial No. 393,784
13 Claims. (Cl. 248—168)



12. A stand or tripod for cameras and the like having a central, lengthwise extending column carrying a support plate; a cylindrical member receiving said column and having a head member; a set of legs hinged to said head member; a leg-support brace member secured to said cylindrical member; leg-support tubular brace members pivotally connected to said leg-support brace member, each of said tubular brace members receiving therein a brace rod; means pivotally to connect each brace rod to the corresponding leg; and means adjustably to connect the corresponding tubular brace members and brace rods.

2,282,286
MONOGRAM AFFIXING DEVICE
Israel Otnow, New York, N. Y., assignor to Durlacher & Company, Incorporated, New York, N. Y., a corporation of New York
Application March 21, 1941, Serial No. 384,465
1 Claim. (Cl. 219—19)

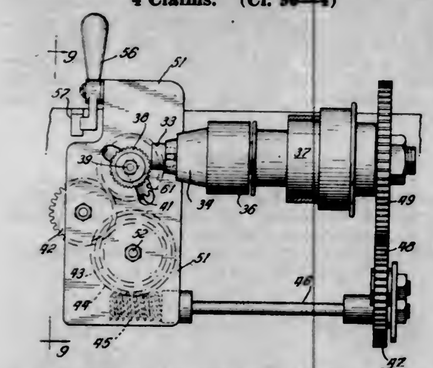


In a heating device for securing monograms or the like to articles of fabric, the combination of an elongated base structure, a plate forming a work-receiving surface mounted on the upper surface thereof, a pivoted heating element comprising a flat plate forming a heat transfer surface adapted to be lowered into engagement with the work on the work-receiving surface, a housing mounted on the flat plate and a heating coil positioned within the housing in heat-conducting relation to the flat plate, supporting means for the heating element comprising elongated arms secured along each longitudinal edge of the element and extending beyond the opposite end portions thereof, a handle secured between the arms at one end thereof, the opposite ends of the arms having elongated, longitudinally disposed, apertures therein, a pair of vertical hinge members mounted on the base structure and carrying pivot members passing through the elongated apertures in the arms, and supporting means for receiving the lower terminals of the arms to maintain the pivoted heating element in an upright position when not in use, said means comprising substantially U shaped members carried by the hinge members, the arms being releasable from the U shaped supporting means by upward movement of the heating element.

2,282,287
DESULPHURIZED POLYSULPHIDE POLYMER AND PROCESS OF MAKING
Joseph C. Patrick, Morrisville, Pa., assignor to Thiokol Corporation, Trenton, N. J., a corporation of Delaware
No Drawing. Original application September 18, 1940, Serial No. 357,230. Divided and this application August 9, 1941, Serial No. 406,167
2 Claims. (Cl. 260—79)

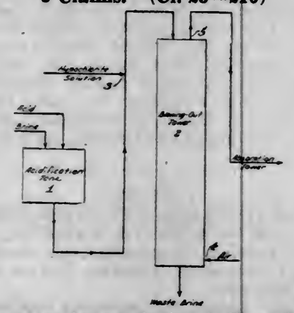
1. The process which comprises reacting a desulphurizing agent with the polymeric reaction product of an alkaline polysulphide having a proportion of sulphur represented by 3 to 6 sulphur atoms in the molecule and BB' di (chloroethoxy) ethyl ether.

2,282,288
GEAR CUTTING APPARATUS
Alexander W. Plensler, Chicago, Ill., assignor to Belmont Radio Corporation, a corporation of Illinois
Application March 8, 1939, Serial No. 260,597
4 Claims. (Cl. 90—4)



1. Apparatus for making gears with spiral leads including means for rotating a blank to be cut into such a gear, a rotary cutter having a succession of fixed teeth extending peripherally thereon and each tooth having a cutting edge on one side thereof, mounting means for said cutter supported on a pivoted plate, a fixed frame member adjacent said pivoted plate, and a handle member pivotally secured to the said pivoted plate for moving said mounting means and the cutter therewith into cutting engagement with said blank, with a cam portion on one of said two members in a position such that the pivoted movement of the handle when said handle member is in operative connection with said frame member in at least one operating position thereof, will cause the cutter to cut progressively deeper into said blank.

2,282,289
HALOGEN EXTRACTION
Harold A. Robinson, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application January 29, 1940, Serial No. 316,189
5 Claims. (Cl. 23—216)

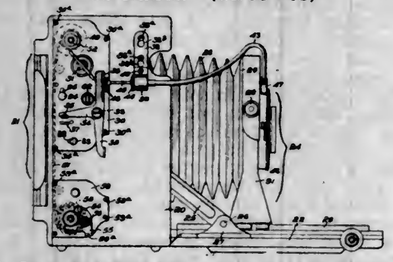


1. A process for producing iodine which comprises acidifying to a pH value between about 4 and 6 a saline solution containing the iodine in combined form, oxidizing to liberate the iodine by adding a hypochlorite solution having a pH value between about 5 and 11, and thereafter separating the liberated iodine from the so treated solution.

2,282,290
ANTHELMINTIC TABLET
William Eardley Swales, Ste. Anne de Bellevue, Quebec, Canada, assignor to The Honorary Advisory Council for Scientific and Industrial Research, Ottawa, Ontario, Canada, a corporation of Canada
No Drawing. Application July 24, 1940, Serial No. 347,197
5 Claims. (Cl. 167—53)

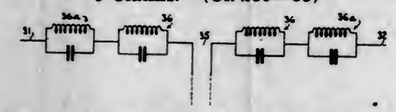
1. An anthelmintic in the form of a tablet and consisting of substantially 80% of phenothiazine, and intimately mixed therewith starch, carbon dioxide releasing reagents, and sodium choleate as a wetting agent to insure complete disintegration of the tablet.

2,282,291
PHOTOGRAPHIC CAMERA SHUTTER CONTROL MEANS
Vernon E. Whitman, Rochester, N. Y., assignor to The Folmer Graflex Corporation, Rochester, N. Y., a corporation of Delaware
Application November 8, 1940, Serial No. 364,876
22 Claims. (Cl. 95—53)



1. In a photographic camera having a between-the-lens shutter and a back shutter, shutter control means therefore, including manually manipulable release means for the back shutter, and also including manually manipulable cable-release operating means for the between-the-lens shutter, and means effecting substantially simultaneous operation of both said shutters by manipulation of said release means for the back shutter, said means for effecting substantially simultaneous operation of both said shutters including means on the camera for supporting and presenting for actuation said cable release means in such position in proximity to said manually manipulable release means that operating movement of said latter means actuates said cable release means, and therefore said between-the-lens shutter.

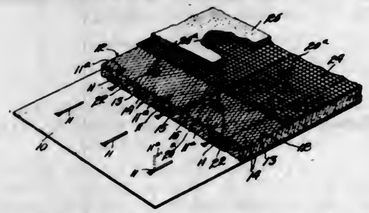
2,282,292
ALL WAVE RADIO RECEIVING SYSTEM
Ernest V. Amy and Julius Gourgues Aceves, New York, N. Y.
Application July 10, 1937, Serial No. 152,884
6 Claims. (Cl. 250—33)



4. An antenna system for use with radio receivers arranged to receive a plurality of different radio frequency bands greater than fifteen hundred kilocycles, said system comprising a dipole antenna normally having maximum response for certain bands of said frequencies, a pair of lead-in conductors connected thereto and

to a radio receiver, and a filter section comprising an inductance and a capacity arranged to have a high impedance for a selected narrow band of said frequencies intermediate to the bands for which the antenna normally provides maximum response, the filter section being connected in each arm of said dipole at a point substantially one-quarter wave length of the mid-frequency of said selected band from the connection of the lead-in to said dipole, so that the antenna also provides maximum response for said selected frequency band.

2,282,293
HEAT INSULATING LINING
Frank Christenson, Jamaica Estates, N. Y.
Application April 21, 1941, Serial No. 389,535
3 Claims. (Cl. 72—16)

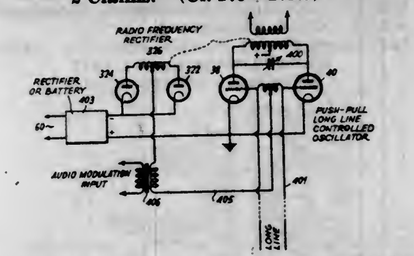


1. An insulating lining for a metal wall which is subject to expansion and contraction, comprising metal pins attached to the surface of said metal wall and extending outwardly therefrom, an insulating blanket on said wall and secured by said pins, additional pins extending through said blanket and secured thereto, said additional pins being free of said wall and adapted to move independently thereof, a layer of supporting material adapted to support a layer of cement, said additional pins extending through said layer of supporting material and securing the same to said blanket, and a layer of cement covering said layer of supporting material and carried thereby, said first pins being free for relative movement with respect to said layer of cement whereby expansion or contraction of said metal wall may take place without cracking said layer of cement.

2,282,294
PROCESS FOR IMPROVING THE COLOR OF CAUSTIC ALKALI SOLUTIONS
John S. Coey, Niagara Falls, N. Y., assignor to Hooker Electrochemical Company, Niagara Falls, N. Y., a corporation of New York
No Drawing. Application January 29, 1941, Serial No. 376,497
6 Claims. (Cl. 23—184)

1. In the treatment of solutions of caustic soda that have been produced in electrolytic diaphragm cells and which upon concentration, with no more than incidental exposure to light, and that to relatively weak diffused light only, will develop a bluish color that can be destroyed by oxidation, and afterward, if effectively exposed to actinic light, will develop a greenish fluorescence, the process for destroying the bluish color and tendency to develop greenish fluorescence which comprises adding to the concentrated solution, unexposed to actinic light of effective intensity, a soluble oxidizing agent decomposing to yield oxygen and leave a colorless compound normally present in such solutions, in amount substantially more than sufficient to destroy the bluish color, and exposing the solution to relatively intense rays of actinic light, until oxidizing agent has been decomposed in excess of the amount necessary to destroy the bluish color.

2,282,295
OSCILLATION GENERATION AND CONTROL
Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application November 16, 1938, Serial No. 240,629
2 Claims. (Cl. 179—171.5)



1. In a high frequency wave signalling system, a high frequency generator comprising, a pair of electron discharge devices each having a control grid, an anode and a cathode, a tuned output circuit connected to said anodes and cathodes, a frequency determining line connected to said control grids and cathodes, said devices, tuned circuit and line cooperating to produce oscillations of a frequency determined roughly by said tuned circuit and more accurately by said line, a rectifier coupled to said tuned circuit, means including an impedance connecting said rectifier in a direct-current circuit between the control grids and cathodes of said devices for rectifying produced oscillations and supplying a direct-current biasing potential to said control grids to limit the amplitude of the oscillations generated, and means for superimposing on said biasing potential a modulating voltage to thereby modulate the amplitude of the oscillations generated.

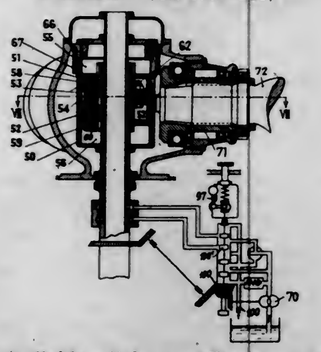
2,282,296
FOLDABLE TABLE SET
Frank Hollentonder, Bridgeport, Conn.; now by judicial change of name Frank Hollenton
Application November 7, 1938, Serial No. 239,251
3 Claims. (Cl. 155—123)



1. In combination a foldable table including a top comprising a pair of hingedly connected sections, each section including a frame comprising side and end members and a top panel forming an open sided compartment, stools each having a sheet metal top and two pairs of legs pivoted together and one pair to the top and the other pair arranged to detachably engage the top, said legs being foldable into a single plane with the top along one side thereof so as to be placed in said compartments, said legs having cross members connecting the legs of each pair and when the stools are in the compartments adapted to be arranged with legs of each stool extending under a cross member of another stool so as to retain each other in the compartment, supporting legs for the table hinged to the sections adjacent the outer corners thereof and

foldable into the compartments to lie side by side, and the hinge connection for each leg including an inclined brace connected to the leg and pivoted to its section and lying over the outer end portion of a stool when the leg is so folded to retain the stools in the compartment.

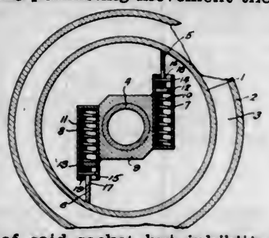
2,282,297
CONTROLLABLE PITCH PROPELLER
Curt Keller, Zurich, Switzerland, assignor to Escher Wyss Maschinenfabriken Aktiengesellschaft, Zurich, Switzerland
Application March 30, 1938, Serial No. 198,844
In Switzerland April 1, 1937
8 Claims. (Cl. 170—163)



1. Controllable pitch propeller comprising in combination, a hub, a plurality of blades arranged on said hub for adjustment about their longitudinal axes, means displaceable by the action of a hydraulic pressure medium and comprising a piston arranged coaxially to said hub and a cylinder axially displaceable relative to said piston for adjusting said blades, and means acted upon by the same hydraulic pressure medium and adapted to instantly lock mechanically said cylinder and through it also the blades in their actual positions, whenever and as long as the hydraulic pressure drops, and remains, below a predetermined value, said locking means controlling moreover the admission of the hydraulic pressure medium to one or the other of two chambers in the cylinder on opposite sides of said piston in such a way that a supply of pressure medium can only occur after said mechanical locking means have released the cylinder.

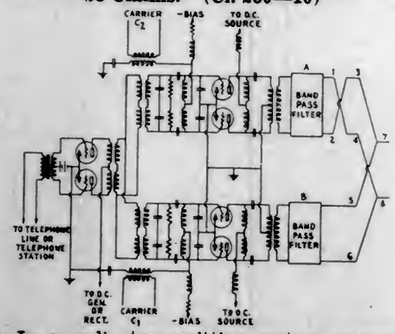
2,282,298
SPRING SUPPORTED SCRAPER BLADE FOR THE CONDUITS OF HEAT EXCHANGERS
Werner G. Vogel, deceased, late of Louisville, Ky., by Emma Bartman Vogel, executrix, Louisville, Ky.
Original application October 26, 1938, Serial No. 237,135. Divided and this application November 9, 1939, Serial No. 303,709
3 Claims. (Cl. 259—109)

1. Rotary scraper for the liquid carrying conduits of heat exchangers comprising a shaft, a ribbon blade extending longitudinally of said shaft and spaced therefrom having a chisel edge adapted to scrape the inner cylindrical surface of the conduit in which said shaft is axially inserted, blade supports fixed to said shaft at spaced longitudinal intervals, each support comprising a hub, means forming a spring housing carried by said hub having a spring receiving socket offset from the axis of said shaft with the axis of said socket tangential to an imaginary circle concentric with the axis of said shaft, said housing having a slot at one end slidably receiving said blade permitting movement thereof lon-



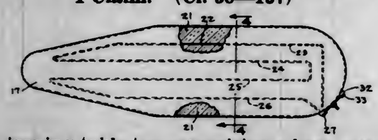
gitudinally of said socket but inhibiting lateral deflection of said blade, and a spring in said socket thrusting against said blade biasing it against the surface of said conduit.

2,282,299
ANTISTATIC DEVICE
Hughes Mouradian, Philadelphia, Pa.
Application January 22, 1940, Serial No. 314,960
23 Claims. (Cl. 250—10)



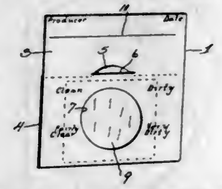
1. In a radio transmitting system, means for modulating the same signal at two different carrier frequencies, means for selecting the upper side bands of the respective modulation products in each case, means for reversing the phase of only one of said side bands, and means for radiating both the reversed and the unreversed side bands.

2,282,300
IRONING TABLE TOP
Les W. Place, Minneapolis, Minn., assignor to the J. R. Clark Company, Minneapolis, Minn., a corporation
Application November 24, 1939, Serial No. 305,921
1 Claim. (Cl. 38—137)



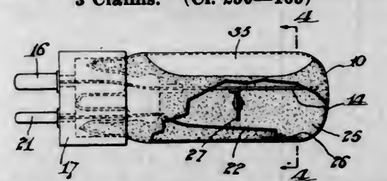
An ironing table top comprising a base member formed of a wooden board of substantial thickness and with transverse reenforcing means adapted to connect supporting legs to the table top, the board being formed with a pair of rounded beads extending about all margins of the board and uniting at the center of the edge of the board to form a continuous V-shaped groove, a sheet metal cover resting upon the wooden base member and completely covering its top, said cover member having a continuous flange shaped to extend about the entire ironing table top and curved to fit the curve of the top bead and having its edge seated in and concealed by said central V-shaped groove, whereby the metallic member is united with the base member and is held thereon without screws or other fastening devices so as to give an appearance of complete unity between the wooden base member and the metal top thereon.

2,282,301
FILTER CARD
Carl G. Petersen, Bismarck, N. Dak.
Application October 3, 1939, Serial No. 297,751
2 Claims. (Cl. 73—51)



2. As an article of manufacture for use in the formation of a filter card, an elongated sheet of cardboard having a transverse fold line at one side of the transverse center whereby the sheet is divided into a major and a minor portion, said minor portion having an end edge flap extending in the plane of the minor portion and said major portion having a slit disposed across the longitudinal center into which said flap may be extended without folding to maintain said minor portion when the sheet is folded along said line against the major portion, the said minor and major portions having registering openings, the area of said major portion upon the side of said slit remote from the opening being relatively wide for the application of data.

2,282,302
PHOTOELECTRIC TUBE
Everett H. Bickley, Bala Cynwyd, Pa.
Application July 6, 1939, Serial No. 282,972
3 Claims. (Cl. 250—165)

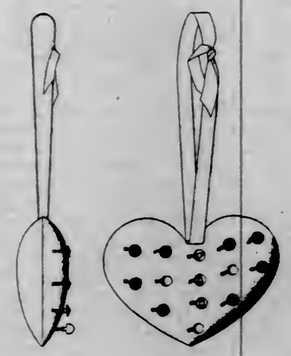


1. A photoelectric tube comprising an evacuated transparent body including a closure, a conductor passing through said closure and terminating in an anode, a second conductor passing through said closure and terminating in a spring contact tensioned in contact with the inner wall of said body, a cathode formed by a metallic lining deposited on said inner wall, and a spot of graphite compound deposited on said inner wall to form an electrical bonding bridge between said cathode and said spring contact, whereby electrical contact between said spring contact and said cathode is independent of physical contact between said contact conductor and said cathode.

DESIGNS

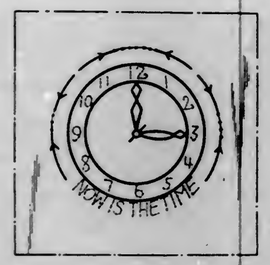
MAY 5, 1942

132,244
DESIGN FOR A BABY'S OBSERVATION STIMULATING DEVICE
Abby Beveridge Baum, Seattle, Wash.
Application September 15, 1941, Serial No. 103,355
Term of patent 7 years



The ornamental design for a baby's observation stimulating device, substantially as shown and described.

132,245
DESIGN FOR AN APPLIQUÉ EMBROIDERY
Jules Chase, New York, N. Y.
Application December 31, 1941, Serial No. 104,933
Term of patent 3½ years



The ornamental design for an appliqué embroidery, substantially as shown.

132,246
DESIGN FOR A PLAQUE
Louis Buford Clarke, South San Francisco, Calif.
Application February 11, 1941, Serial No. 98,923
Term of patent 14 years



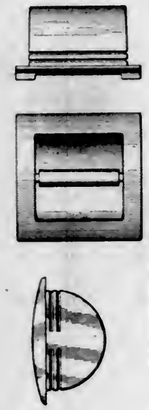
The ornamental design for a plaque, substantially as shown.

132,247
DESIGN FOR A BADGE OR SIMILAR ARTICLE
Harry L. Cooper, Steubenville, Ohio
Application January 5, 1942, Serial No. 105,035
Term of patent 3½ years



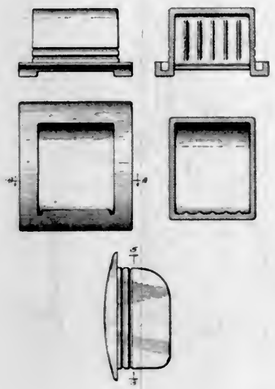
The ornamental design for a badge or similar article, as shown.

132,248
DESIGN FOR A BUILT-IN PAPER HOLDER OR THE LIKE
Henry Dreyfuss, New York, N. Y., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application November 6, 1941, Serial No. 104,055
Term of patent 14 years



The ornamental design for a built-in paper holder or the like, substantially as shown.

132,249
DESIGN FOR A BUILT-IN SOAP DISH
Henry Dreyfuss, New York, N. Y., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application November 6, 1941, Serial No. 104,056
Term of patent 14 years



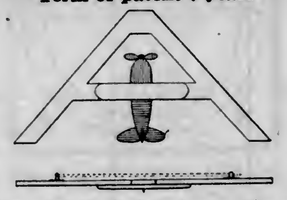
The ornamental design for a built-in soap dish, substantially as shown.

132,250
DESIGN FOR A BUILT-IN TUMBLER HOLDER
Henry Dreyfuss, New York, N. Y., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application November 6, 1941, Serial No. 104,057
Term of patent 14 years



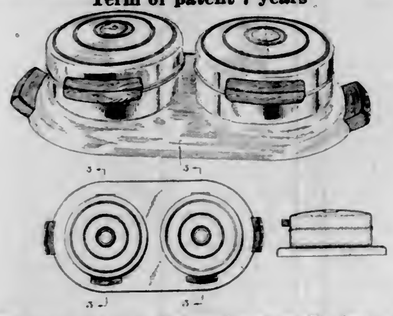
The ornamental design for a built-in tumbler holder, substantially as shown.

132,251
DESIGN FOR A PIN OR SIMILAR ARTICLE
Marie Eron, Chicago, Ill.
Application December 20, 1941, Serial No. 104,764
Term of patent 7 years



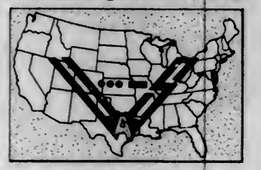
The ornamental design for a pin or similar article, as shown.

132,252
DESIGN FOR A WAFFLE IRON
James F. Faunce, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application October 4, 1940, Serial No. 95,632
Term of patent 7 years



The ornamental design for a waffle iron, substantially as shown.

132,253
DESIGN FOR A PENNANT OR SIMILAR ARTICLE
Harry R. Ferguson, Battle Creek, Mich.
Application February 19, 1942, Serial No. 105,915
Term of patent 7 years



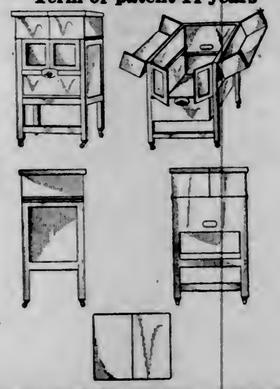
The ornamental design for a pennant or similar article, as shown.

132,254
DESIGN FOR A PLAQUE OR SIMILAR ARTICLE
Walter Roy Harvey, Quarryville, and Joseph Tyson Henry, Jr., and Harry Neilson Flavell, Jr., York, Pa.
Application June 5, 1940, Serial No. 92,836
Term of patent 3½ years



The ornamental design for a plaque or similar article, as shown.

132,255
DESIGN FOR A CABINET
Ernest L. Junghanns, Yonkers, N. Y.
Application May 22, 1941, Serial No. 101,091
Term of patent 14 years



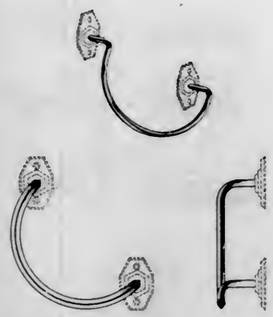
The ornamental design for a cabinet, substantially as shown.

132,256
DESIGN FOR A BADGE OR SIMILAR ARTICLE
Galliano Manzotti, Providence, R. I., assignor to Curtman Co., a partnership composed of Galliano Manzotti and Guiseppe De Curtis, Providence, R. I.
Application January 19, 1942, Serial No. 105,303
Term of patent 3½ years



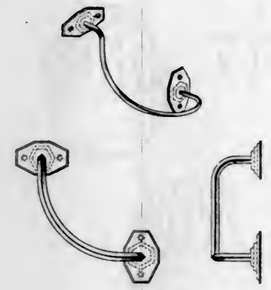
The ornamental design for a badge or similar article, substantially as shown and described.

132,257
DESIGN FOR A GRAB BAR OR SIMILAR ARTICLE
Roy S. Sanford, Oakville, Conn., assignor to The Autoyre Company, Incorporated, Oakville, Conn., a corporation of Connecticut
Application August 28, 1941, Serial No. 103,065
Term of patent 14 years



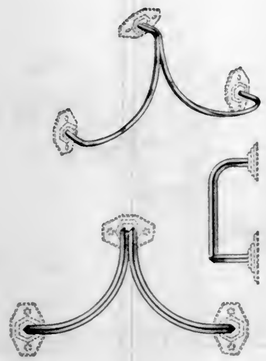
The ornamental design for a grab bar or similar article, substantially as shown.

132,258
DESIGN FOR A GRAB BAR OR SIMILAR ARTICLE
Roy S. Sanford, Oakville, Conn., assignor to The Autoyre Company, Incorporated, Oakville, Conn., a corporation of Connecticut
Application August 28, 1941, Serial No. 103,066
Term of patent 14 years



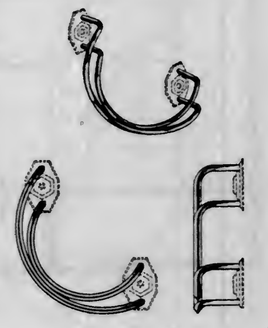
The ornamental design for a grab bar or similar article, substantially as shown and described.

132,259
DESIGN FOR A GRAB BAR OR SIMILAR ARTICLE
Roy S. Sanford, Oakville, Conn., assignor to The Autoyre Company, Incorporated, Oakville, Conn., a corporation of Connecticut
Application August 28, 1941, Serial No. 103,067
Term of patent 14 years



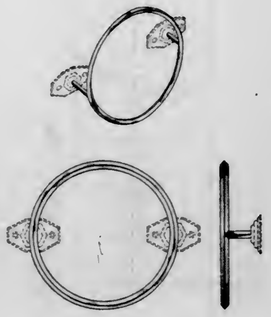
The ornamental design for a grab bar or similar article, substantially as shown.

132,260
DESIGN FOR A GRAB BAR OR SIMILAR ARTICLE
Roy S. Sanford, Oakville, Conn., assignor to The Autoyre Company, Incorporated, Oakville, Conn., a corporation of Connecticut
Application August 28, 1941, Serial No. 103,068
Term of patent 14 years



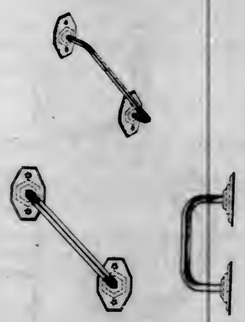
The ornamental design for a grab bar or similar article, substantially as shown.

132,261
DESIGN FOR A GRAB BAR OR SIMILAR ARTICLE
Roy S. Sanford, Oakville, Conn., assignor to The Autoyre Company, Incorporated, Oakville, Conn., a corporation of Connecticut
Application August 28, 1941, Serial No. 103,069
Term of patent 14 years



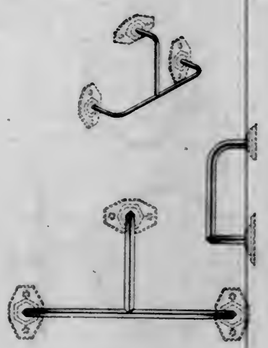
The ornamental design for a grab bar or similar article, substantially as shown.

132,262
DESIGN FOR A GRAB BAR OR SIMILAR ARTICLE
Roy S. Sanford, Oakville, Conn., assignor to The Autoyre Company, Incorporated, Oakville, Conn., a corporation of Connecticut
Application August 28, 1941, Serial No. 103,070
Term of patent 14 years



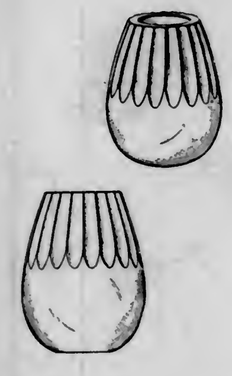
The ornamental design for a grab bar or similar article, substantially as shown and described.

132,263
DESIGN FOR A GRAB BAR OR SIMILAR ARTICLE
Roy S. Sanford, Oakville, Conn., assignor to The Autoyre Company, Incorporated, Oakville, Conn., a corporation of Connecticut
Application August 28, 1941, Serial No. 103,071
Term of patent 14 years



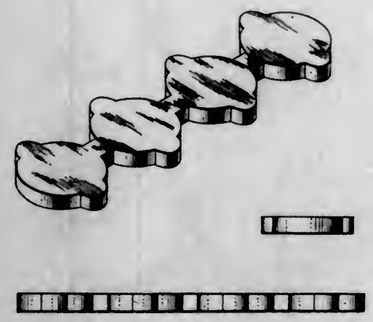
The ornamental design for a grab bar or similar article, substantially as shown.

132,264
DESIGN FOR A VASE
Charles W. Sawyer, Toledo, Ohio, assignor to Libbey Glass Company, Toledo, Ohio, a corporation of Ohio
Application September 25, 1941, Serial No. 103,500
Term of patent 7 years



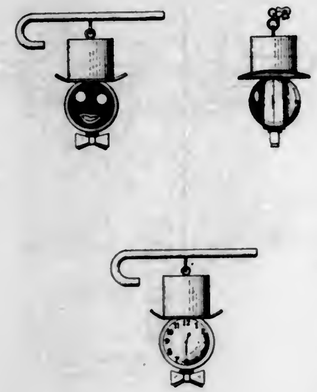
The ornamental design for a vase, substantially as shown.

132,265
DESIGN FOR A REPAIR LOCK FOR METAL CASTINGS OR THE LIKE
Lawrence B. Scott, Columbus, Ohio
Application August 18, 1941, Serial No. 102,915
Term of patent 14 years



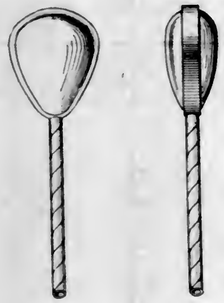
The ornamental design for a repair lock for metal castings or the like, as shown.

132,266
DESIGN FOR A COMBINED LAPEL WATCH AND REFLECTOR BUTTON
Alfred Benjamin Shawl, New York, N. Y.
Application March 30, 1942, Serial No. 106,383
Term of patent 3½ years



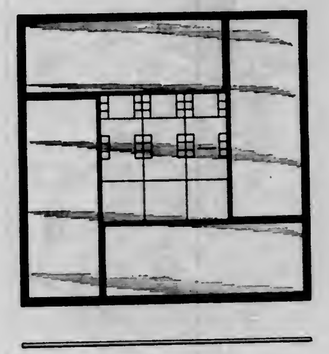
The ornamental design for a combined lapel watch and reflector button, as shown and described.

132,267
DESIGN FOR A CONFECTIONERY PRODUCT
Frederick H. Weise, Bloomfield, N. J., assignor to Charms Company, Bloomfield, N. J., a corporation of Delaware
Application August 3, 1940, Serial No. 94,350
Term of patent 14 years



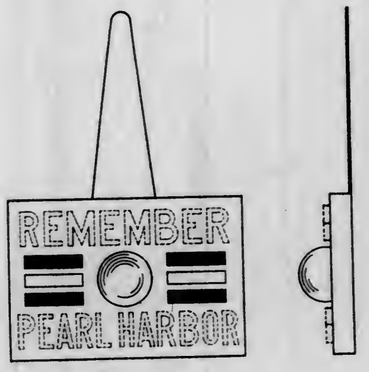
The ornamental design for a confectionery product, as shown.

132,268
DESIGN FOR A GAME BOARD
Everette A. Wilson and Irven N. Ross, Salinas, Calif.
Application July 9, 1941, Serial No. 101,997
Term of patent 7 years



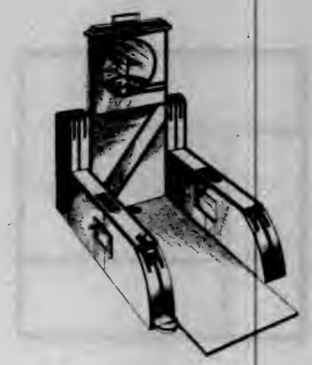
The ornamental design for a game board, as shown.

132,269
DESIGN FOR A BADGE OR SIMILAR ARTICLE
Ralph F. Baird, Youngstown, Ohio
Application January 6, 1942, Serial No. 105,036
Term of patent 3½ years



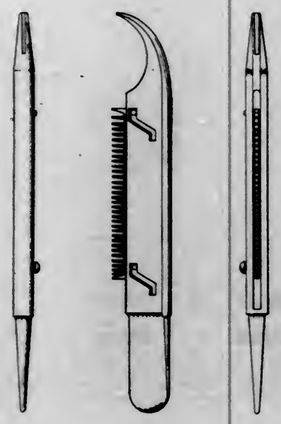
The ornamental design for a badge or similar article, as shown.

132,270
DESIGN FOR A GOLF GAME DEVICE
Le Roy Baker, Kansas City, Kans.
Application August 13, 1941, Serial No. 102,827
Term of patent 7 years



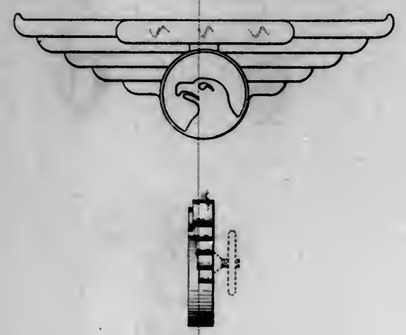
The ornamental design for a golf game device, as shown.

132,271
DESIGN FOR A HAIR CURLER COMB
Francis James Coakley, London, England
Application May 21, 1941, Serial No. 101,048
In Great Britain April 1, 1940
Term of patent 7 years



The ornamental design for a hair curler comb, as shown and described.

132,272
DESIGN FOR A BADGE
Frank de Ganahl, Riverton, N. J., assignor to Fleetwings, Incorporated, Bristol, Pa., a corporation of Delaware
Application February 7, 1942, Serial No. 105,707
Term of patent 14 years



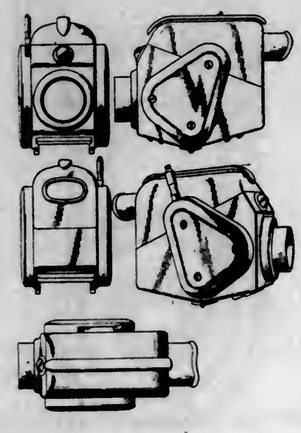
The ornamental design for a badge, as shown.

132,273
DESIGN FOR A BADGE
Frank de Ganahl, Riverton, N. J., assignor to Fleetwings, Incorporated, Bristol, Pa., a corporation of Delaware
Application February 7, 1942, Serial No. 105,708
Term of patent 14 years



The ornamental design for a badge, as shown.

132,274
DESIGN FOR A TELEVISION CAMERA
William C. Eddy, Michigan City, Ind.
Application February 28, 1942, Serial No. 106,033
Term of patent 14 years



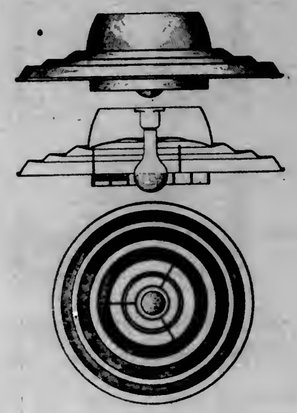
The ornamental design for a television camera, as shown.

132,275
DESIGN FOR A POSTER OR SIMILAR ARTICLE
Edward John Genter, New London, Conn.
Application February 18, 1942, Serial No. 105,882
Term of patent 7 years



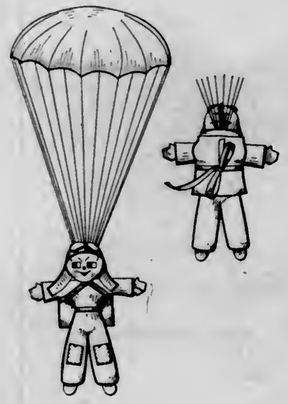
The ornamental design for a poster or similar article, as shown.

132,276
DESIGN FOR A LIGHTING FIXTURE
Ernest H. Greppin, Brighton, N. Y., assignor to Wilmot Castle Company, Rochester, N. Y., a corporation of New York
Application February 9, 1942, Serial No. 105,723
Term of patent 7 years



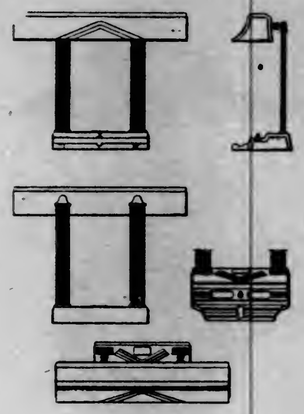
The ornamental design for a lighting fixture, substantially as shown.

132,277
DESIGN FOR A COMBINED TOY FIGURE AND PARACHUTE
Elvy Kalep, New York, N. Y.
Application February 2, 1942, Serial No. 105,567
Term of patent 14 years



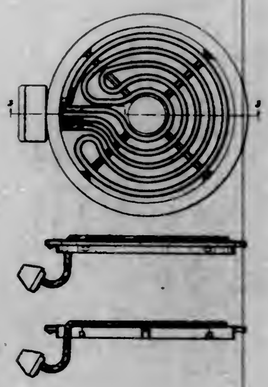
The ornamental design for a combined toy figure and parachute, as shown.

132,278
DESIGN FOR A DESK LAMP
Louis Ludwig, Brooklyn, N. Y.
Application November 22, 1940, Serial No. 96,752
Term of patent 7 years



The ornamental design for a desk lamp, as shown and described.

132,279
DESIGN FOR A RANGE SURFACE HEATING UNIT
Francis H. McCormick, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application August 26, 1941, Serial No. 103,035
Term of patent 14 years



The ornamental design for a range surface heating unit, as shown.

132,280
DESIGN FOR A BAKING DISH OR SIMILAR ARTICLE
Arthur P. Miller, New Kensington, Pa., assignor to The Aluminum Cooking Utensil Company, New Kensington, Pa., a corporation of Pennsylvania
Application June 24, 1941, Serial No. 101,639
Term of patent 7 years



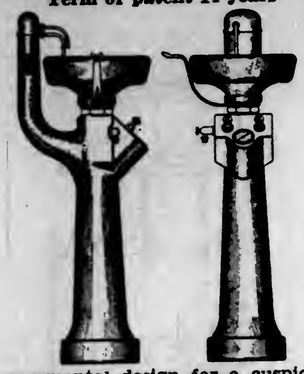
The ornamental design for a baking dish or similar article, substantially as shown and described.

132,281
DESIGN FOR A CASSEROLE COVER OR SIMILAR ARTICLE
Arthur P. Miller and John Clifford Hestwood, New Kensington, Pa., assignors to The Aluminum Cooking Utensil Company, New Kensington, Pa., a corporation of Pennsylvania
Application June 24, 1941, Serial No. 101,636
Term of patent 7 years



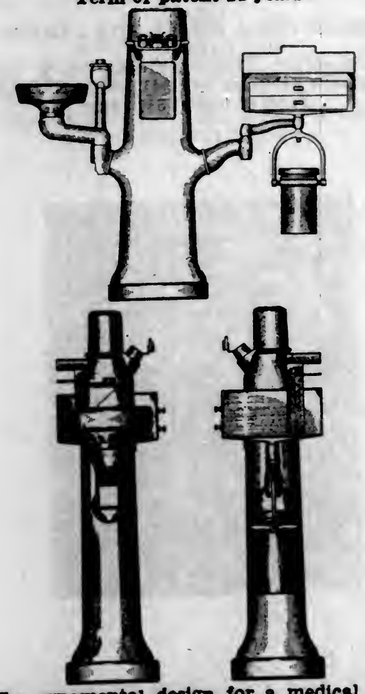
The ornamental design for a casserole cover or similar article, substantially as shown and described.

132,282
DESIGN FOR A CUSPIDOR STAND
Victor A. Noel, Brighton, and Arthur Hadley Murray, Rochester, N. Y., assignors to Ritter Company, Inc., New Castle County, Del., a corporation of Delaware
Application September 13, 1941, Serial No. 103,343
Term of patent 14 years



The ornamental design for a cuspidor stand, substantially as shown.

132,283
DESIGN FOR A MEDICAL EQUIPMENT STAND
Victor A. Noel, Brighton, and Edwin D. Beebe, Rochester, N. Y., assignors to Ritter Company, Inc., New Castle County, Del., a corporation of Delaware
Application September 13, 1941, Serial No. 103,344
Term of patent 14 years



The ornamental design for a medical equipment stand, substantially as shown.

132,284
DESIGN FOR A JAR
Charles W. Sawyer, Toledo, Ohio, assignor to Libbey Glass Company, Toledo, Ohio, a corporation of Ohio
Application September 25, 1941, Serial No. 103,490
Term of patent 7 years



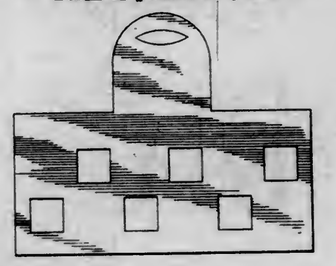
The ornamental design for a jar, substantially as shown.

132,285
DESIGN FOR A CANDY JAR
Charles W. Sawyer, Toledo, Ohio, assignor to Libbey Glass Company, Toledo, Ohio, a corporation of Ohio
Application September 25, 1941, Serial No. 103,496
Term of patent 7 years



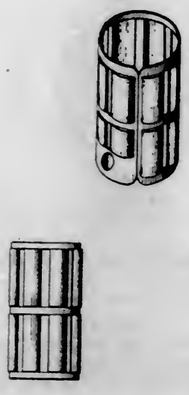
The ornamental design for a candy jar, substantially as shown.

132,286
DESIGN FOR A NECKTIE HOLDER
Leo Soukup and Richard V. Westover, Lincoln, Nebr.
Application September 15, 1941, Serial No. 103,358
Term of patent 14 years



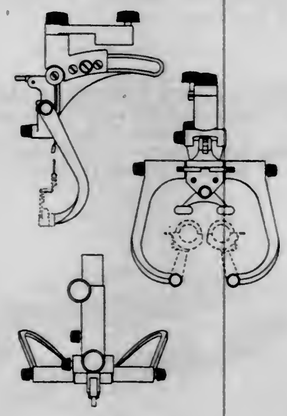
The ornamental design for a necktie holder, as shown.

132,287
DESIGN FOR A FINGER GUARD OR SIMILAR ARTICLE
Nat P. Steckler, New York, N. Y.
Application June 28, 1941, Serial No. 101,784
Term of patent 14 years



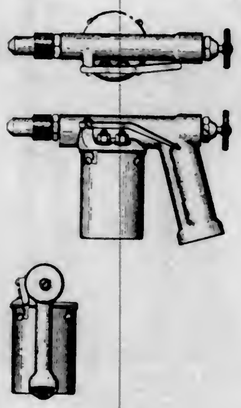
The ornamental design for a finger guard or similar article, as shown.

132,288
DESIGN FOR AN EYE TESTING INSTRUMENT
Raymond F. E. Stegeman, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application February 27, 1942, Serial No. 106,009
Term of patent 14 years



The ornamental design for an eye testing instrument, substantially as shown and described.

132,289
DESIGN FOR A CLEANING GUN UNIT
Max C. Thompson, South Pasadena, Calif.
Application October 3, 1941, Serial No. 103,618
Term of patent 14 years



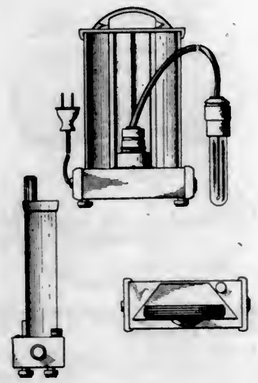
The ornamental design for a cleaning gun unit, as shown.

132,290
DESIGN FOR A WOVEN PILE CARPET FABRIC
Harold E. Wadely, Scarsdale, N. Y.
Application February 24, 1941, Serial No. 99,168
Term of patent 3½ years



The ornamental design for a woven pile carpet fabric, as shown.

132,291
DESIGN FOR AN ULTRA-VIOLET APPLICATOR
Norman A. Whittaker, Seattle, Wash., assignor of one-fourth to L. Kristofferson, Seattle, Wash.
Application April 5, 1941, Serial No. 100,168
Term of patent 3½ years



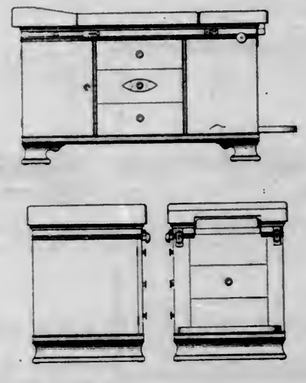
The ornamental design for an ultra-violet applicator, as shown.

132,292
DESIGN FOR A SHOE
Wallace H. Benton, Portsmouth, Ohio, assignor to The Selby Shoe Company, Portsmouth, Ohio, a corporation of Ohio
Application March 18, 1942, Serial No. 106,231
Term of patent 7 years



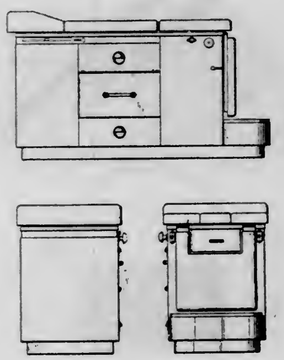
The ornamental design for a shoe, substantially as shown.

132,293
DESIGN FOR A PHYSICIAN'S EXAMINING TABLE OR THE LIKE
John Charles Fay, Connersville, Ind., assignor to Hamilton Manufacturing Company, Two Rivers, Wis., a corporation of Wisconsin
Application September 2, 1941, Serial No. 103,133
Term of patent 14 years



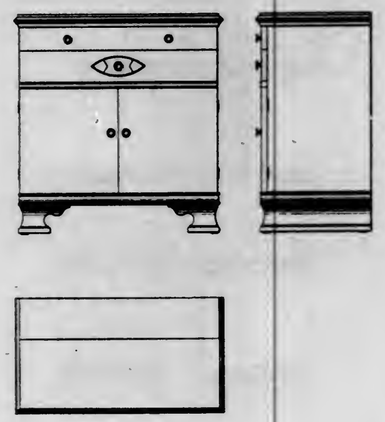
The ornamental design for a physician's examining table or the like, substantially as shown and described.

132,294
DESIGN FOR A PHYSICIAN'S EXAMINING TABLE OR THE LIKE
John Charles Fay, Connersville, Ind., assignor to Hamilton Manufacturing Company, Two Rivers, Wis., a corporation of Wisconsin
Application September 2, 1941, Serial No. 103,134
Term of patent 14 years



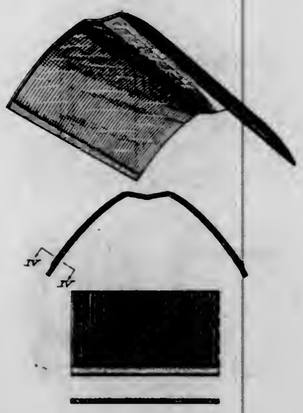
The ornamental design for a physician's examining table or the like, substantially as shown and described.

132,295
DESIGN FOR A CABINET
John Charles Fay, Connersville, Ind., assignor to Hamilton Manufacturing Company, Two Rivers, Wis., a corporation of Wisconsin
Application September 2, 1941, Serial No. 103,135
Term of patent 14 years



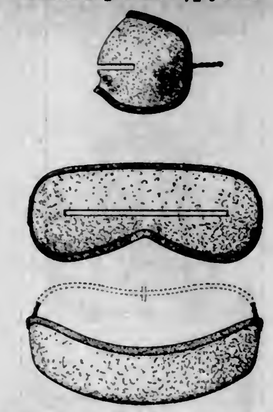
The ornamental design for a cabinet, substantially as shown and described.

132,296
DESIGN FOR A REFLECTOR FOR TUBULAR LAMPS
John A. Hoeveler, Mount Lebanon, Pa., assignor to Pittsburgh Reflector Company, Pittsburgh, Pa., a corporation of New Jersey
Application September 20, 1941, Serial No. 103,434
Term of patent 14 years



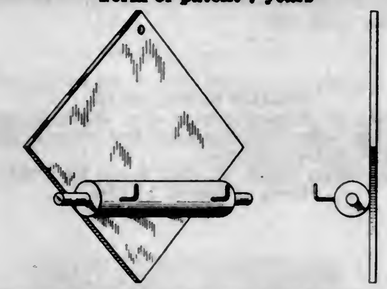
The ornamental design for a reflector for tubular lamp, as shown.

132,297
DESIGN FOR A SNOWSHIELD OR THE LIKE
Rene Hubert, Hollywood, Calif.
Application November 15, 1941, Serial No. 104,168
Term of patent 3½ years



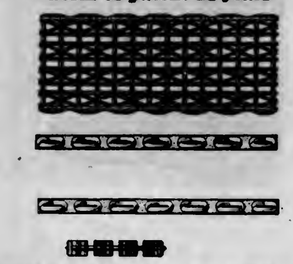
The ornamental design for a snowshield or the like, substantially as shown.

132,298
DESIGN FOR A PAD HOLDER
Clarence W. Jorgensen, Chicago, Ill.
Application September 4, 1941, Serial No. 103,155
Term of patent 7 years



The ornamental design for a pad holder, substantially as shown.

132,299
DESIGN FOR A MAT OR SIMILAR ARTICLE
Stephen Andrew Kowalski, South Bend, Ind.
Application March 5, 1942, Serial No. 106,092
Term of patent 14 years



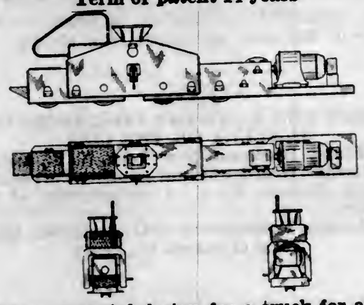
The ornamental design for a mat or similar article, as shown.

132,300
DESIGN FOR A BAG OR THE LIKE
Elie Meltzer, Plainfield, N. J.
Application March 21, 1942, Serial No. 106,274
Term of patent 14 years



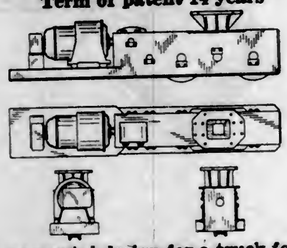
The ornamental design for a bag or the like, substantially as shown.

132,301
DESIGN FOR A TRUCK FOR A TRAVELING CRANE
Robert J. Stoddard, St. Paul, Minn., assignor to American Hoist and Derrick Company, St. Paul, Minn., a corporation of Delaware
Application November 21, 1941, Serial No. 104,238
Term of patent 14 years



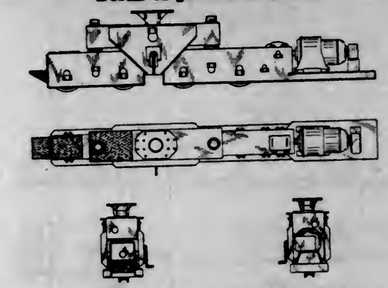
The ornamental design for a truck for a traveling crane, as shown and described.

132,302
DESIGN FOR A TRUCK FOR A TRAVELING CRANE
Robert J. Stoddard, St. Paul, Minn., assignor to American Hoist and Derrick Company, St. Paul, Minn., a corporation of Delaware
Application November 21, 1941, Serial No. 104,239
Term of patent 14 years



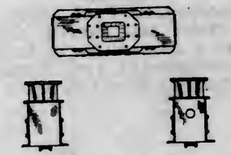
The ornamental design for a truck for a traveling crane, as shown and described.

132,303
DESIGN FOR A TRUCK FOR A TRAVELING CRANE
Robert J. Stoddard, St. Paul, Minn., assignor to American Hoist and Derrick Company, St. Paul, Minn., a corporation of Delaware
Application November 21, 1941, Serial No. 104,240
Term of patent 14 years



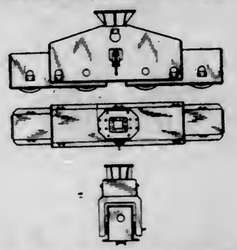
The ornamental design for a truck for a traveling crane, as shown and described.

132,304
DESIGN FOR A TRUCK FOR A TRAVELING CRANE
Robert J. Stoddard, St. Paul, Minn., assignor to American Hoist and Derrick Company, St. Paul, Minn., a corporation of Delaware
Application November 21, 1941, Serial No. 104,241
Term of patent 14 years



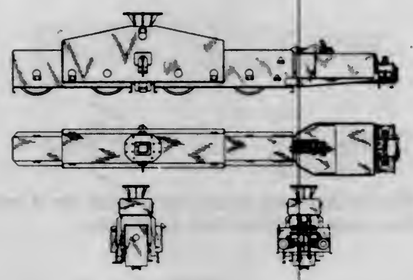
The ornamental design for a truck for a traveling crane, as shown and described.

132,305
DESIGN FOR A TRUCK FOR A TRAVELING CRANE
Robert J. Stoddard, St. Paul, Minn., assignor to American Hoist and Derrick Company, St. Paul, Minn., a corporation of Delaware
Application November 21, 1941, Serial No. 104,242
Term of patent 14 years



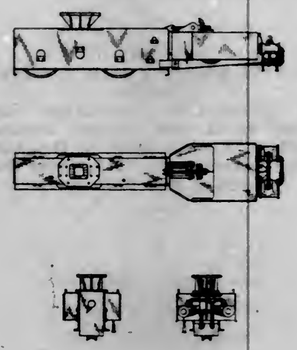
The ornamental design for a truck for a traveling crane, as shown and described.

132,306
DESIGN FOR A TRUCK FOR A TRAVELING CRANE
Robert J. Stoddard, St. Paul, Minn., assignor to American Hoist and Derrick Company, St. Paul, Minn., a corporation of Delaware
Application November 21, 1941, Serial No. 104,243
Term of patent 14 years



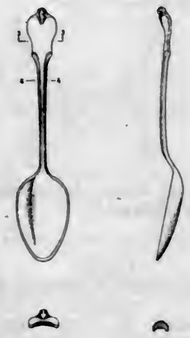
The ornamental design for a truck for a traveling crane, as shown and described.

132,307
DESIGN FOR A TRUCK FOR A TRAVELING CRANE
Robert J. Stoddard, St. Paul, Minn., assignor to American Hoist and Derrick Company, St. Paul, Minn., a corporation of Delaware
Application November 21, 1941, Serial No. 104,244
Term of patent 14 years



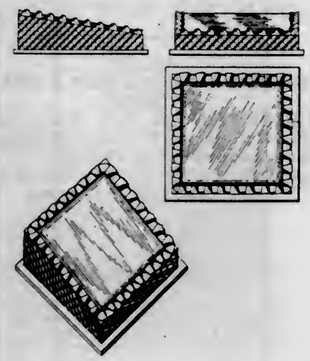
The ornamental design for a truck for a traveling crane, as shown and described.

132,308
DESIGN FOR A SPOON OR OTHER ARTICLE OF FLATWARE
William S. Warren, Meriden, Conn., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn., a corporation of Connecticut
Application February 2, 1942, Serial No. 105,568
Term of patent 14 years



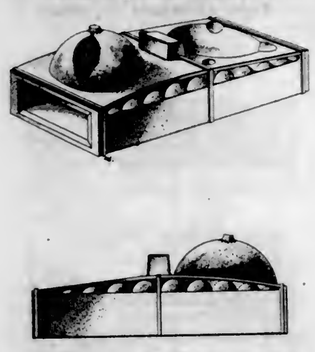
The ornamental design for a spoon or other article of flatware, substantially as shown.

132,309
DESIGN FOR A DISPLAY CONTAINER FOR JEWELRY OR THE LIKE
Jack Fraley Bermond, New York, N. Y., assignor to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J., a corporation of New Jersey
Application February 24, 1941, Serial No. 99,194
Term of patent 3½ years



The ornamental design for a display container for jewelry or the like, as shown.

132,310
DESIGN FOR AN ASH TRAY
Orvin H. Chandler, William W. Chandler, and Claremont R. Copeland, Cocoa, Fla.
Application February 26, 1941, Serial No. 99,228
Term of patent 3½ years



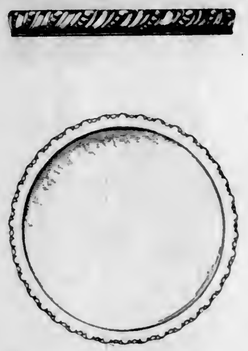
The ornamental design for an ash tray, as shown and described.

132,311
DESIGN FOR A BRACELET LINK OR SIMILAR ARTICLE
Jack Dubinsky, Chicago, Ill.
Application March 7, 1942, Serial No. 106,111
Term of patent 7 years



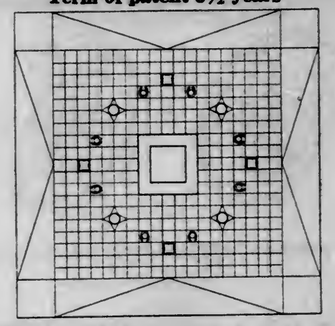
The ornamental design for a braclet link or similar article, as shown and described.

132,312
DESIGN FOR A COMBINATION ASH TRAY AND CARD TRAY
Edward San Giovanni, New York, N. Y.
Application December 31, 1940, Serial No. 97,737
Term of patent 14 years



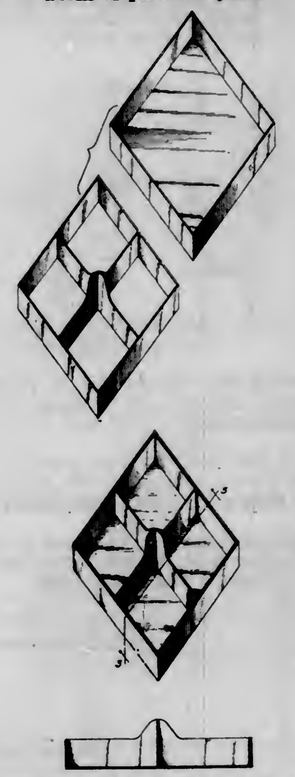
The ornamental design for a combination ash tray and card tray, as shown.

132,313
DESIGN FOR A GAME BOARD
Ernest Wade Hampton, Artemus, Ky.
Application December 8, 1941, Serial No. 104,539
Term of patent 3½ years



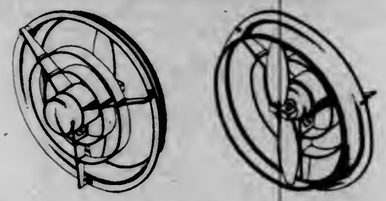
The ornamental design for a game board, as shown.

132,314
DESIGN FOR A COMBINATION CAKE PAN AND DOUGH CUTTER
Russell V. Melville, Henning, Minn.
Application September 11, 1941, Serial No. 103,299
Term of patent 7 years



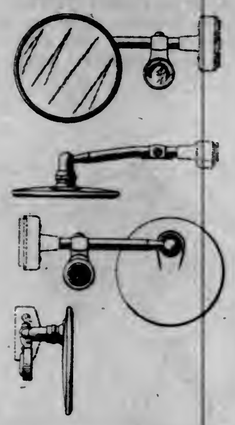
The ornamental design for a combination cake pan and dough cutter, as shown.

132,315
DESIGN FOR A FAN
Lloyd Pearce, Tulsa, Okla.
Application May 10, 1940, Serial No. 92,285
Term of patent 7 years



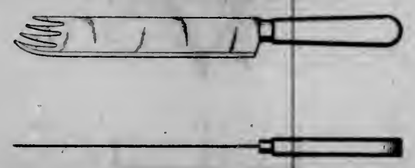
The ornamental design for a fan, as shown.

132,316
DESIGN FOR A COMBINATION THERMOMETER, MIRROR, AND REFLECTOR DEVICE
Benjamin Putterman, Brooklyn, N. Y., assignor to Yankee Metal Products Corp., Norwalk, Conn., a corporation of New York
Application July 15, 1941, Serial No. 102,154
Term of patent 14 years



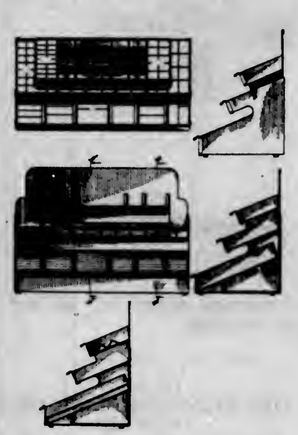
The ornamental design for a combination thermometer, mirror, and reflector device, as shown and described.

132,317
DESIGN FOR A COMBINATION KNIFE AND FORK
Lillian Schumacher, Brooklyn, N. Y.
Application November 4, 1941, Serial No. 104,022
Term of patent 3½ years



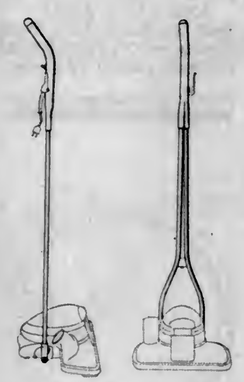
The ornamental design for a combination knife and fork, substantially as shown and described.

132,318
DESIGN FOR A COUNTER DISPLAY CASE
Thomas A. Schutz, Chicago, Ill., assignor to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan
Application January 19, 1942, Serial No. 105,298
Term of patent 3½ years



The ornamental design for a counter display case, as shown.

132,319
DESIGN FOR A SUCTION CLEANER OR THE LIKE
Charles H. Taylor, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application September 4, 1941, Serial No. 108,150
Term of patent 14 years



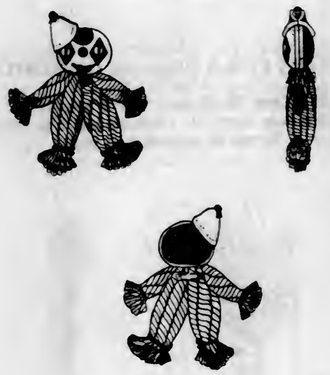
The ornamental design for a suction cleaner or the like, substantially as shown and described.

132,320
DESIGN FOR A MUFF
Max Baer, New York, N. Y.
Application April 8, 1942, Serial No. 106,489
Term of patent 3½ years



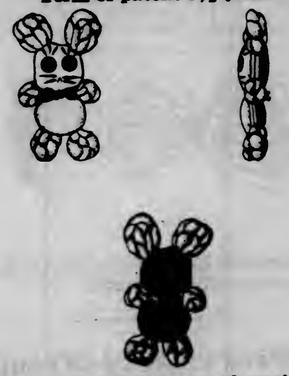
The ornamental design for a muff, substantially as shown.

132,321
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Eileen Dixon, Miami, Fla.
Application April 3, 1942, Serial No. 106,447
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

132,322
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Eileen Dixon, Miami, Fla.
Application April 3, 1942, Serial No. 106,449
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

132,323
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
William W. Hobé, New York, N. Y.
Application March 31, 1942, Serial No. 106,404
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

132,324
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
William W. Hobé, New York, N. Y.
Application March 31, 1942, Serial No. 106,405
Term of patent 3½ years



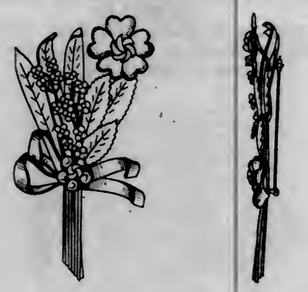
The ornamental design for a brooch or similar article, substantially as shown.

132,325
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
William W. Hobé, New York, N. Y.
Application April 4, 1942, Serial No. 106,460
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

132,326
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
William W. Hobé, New York, N. Y.
Application April 4, 1942, Serial No. 106,461
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

132,327
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
William W. Hobé, New York, N. Y.
Application April 9, 1942, Serial No. 106,507
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

132,328
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
William W. Hobé, New York, N. Y.
Application April 9, 1942, Serial No. 106,508
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

132,329
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
William W. Hobé, New York, N. Y.
Application April 9, 1942, Serial No. 106,509
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

132,330
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
William W. Hobé, New York, N. Y.
Application April 9, 1942, Serial No. 106,510
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

132,331
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application March 31, 1942, Serial No. 106,395
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

132,332
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application March 31, 1942, Serial No. 106,396
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

132,333
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application March 31, 1942, Serial No. 106,397
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

132,334
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application March 31, 1942, Serial No. 106,398
Term of patent 3½ years



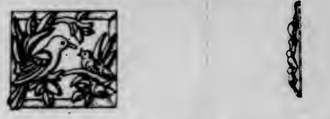
The ornamental design for a brooch or similar article, substantially as shown.

132,335
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application March 31, 1942, Serial No. 106,399
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

132,336
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application March 31, 1942, Serial No. 106,400
Term of patent 3½ years



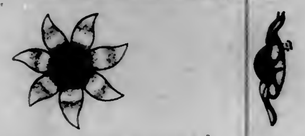
The ornamental design for a brooch or similar article, substantially as shown.

132,337
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application March 31, 1942, Serial No. 106,401
Term of patent 3½ years



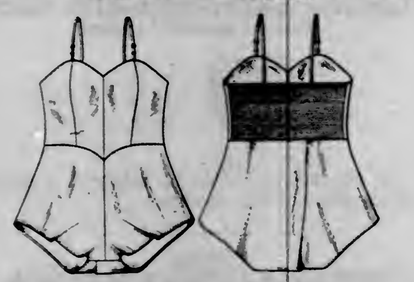
The ornamental design for a brooch or similar article, substantially as shown.

132,338
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application March 31, 1942, Serial No. 106,402
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

132,339
DESIGN FOR A LADY'S UNDERGARMENT OR THE LIKE
Doris Miller, New York, N. Y., assignor to Doris Miller, Inc., New York, N. Y., a corporation of New York
Application February 27, 1942, Serial No. 106,005
Term of patent 3½ years



The ornamental design for a lady's undergarment or the like, as shown.

132,340
DESIGN FOR A REVERSIBLE HOODED COAT
Jerome M. Schwartz, New York, N. Y.
Application June 13, 1940, Serial No. 92,963
Term of patent 3½ years



The ornamental design for a reversible hooded coat, substantially as shown and described.

132,341
DESIGN FOR A LAPEL PIN
Paul P. Smilo, New York, N. Y.
Application April 9, 1942, Serial No. 106,511
Term of patent 3½ years



The ornamental design for a lapel pin, substantially as shown.

THE
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CONTENTS

	Page
ISSUE OF MAY 12, 1942	239
ADJUDICATED PATENTS	239
NOTICES OF CANCELLATION	239
APPLICATIONS UNDER EXAMINATION	240
DECISIONS OF THE U. S. COURTS—	
In re Davis et al	241
Farnsworth v. Brown et al	242
In re Helmond	246
PATENT SUITS	248
CHANGES IN CLASSIFICATION	249
TRADE-MARKS PUBLISHED (118 APPLICATIONS)	255
TRADE-MARK REGISTRATIONS GRANTED	270
TRADE-MARK REGISTRATIONS RENEWED	278
REISSUES	281
PLANT PATENTS	282
PATENTS GRANTED	283
DESIGNS	484

May 12, 1942

Trade-Marks	178—No.	395,032 to No.	395,259, inclusive.
T. M. Renewals	34		
Reissues	5—No.	22,093 to No.	22,097, inclusive.
Plant Patents	1—No.	515	
Patents	856—No.	2,282,303 to No.	2,283,158, inclusive.
Designs	77—No.	132,342 to No.	132,418, inclusive.
Total	1,151		

Adjudicated Patents

(CT. CL.) Pratt patent, No. 1,499,472, for airplane landing mechanism, *Held* invalid and not infringed. *Pratt v. U. S.*, 43 F. Supp. 461.

(D. C. N. C.) Bosch patent, No. 1,615,807, for striping attachment for knitting machines, *Held* invalid, claims 4 and 5, *Held* not infringed. *Scott & Williams* v. *Whisnant*, 43 F. Supp. 332.

(C. C. A. N. C.) Bosch patent, No. 1,615,807, for striping attachment for knitting machines, claims 4 and 5, *Held* not infringed. *Scott & Williams* v. *Whisnant*, 126 F.(2d) 19.

(D. C. Calif.) Smith patent, No. 1,871,825, for elevator latch, claims 1, 4 and 11, *Held* valid and infringed. *Byron Jackson Co.* v. *Wilson*, 43 F. Supp. 392.

(D. C. Ohio.) Steinbart patent, No. 1,907,453, for method of and machine for making steel wool, claims 17, 23, 29, and 34, *Held* invalid, claims 17 and 34, even if valid, *Held* not infringed. *International Steel Wool Corporation* v. *Williams Co.*, 43 F. Supp. 438.

(D. C. Ohio.) Stover patent, No. 1,911,250, for incubator, claim 5, *Held* valid and infringed. *Petersime Incubator Co.* v. *Bundy Incubator Co.*, 43 F. Supp. 446.

Notices of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., Apr. 7, 1942.*

The heirs, assigns or legal representatives of Theophilus O. Williams, deceased, take notice:

A cancellation proceeding has been instituted by this Office upon the application of The Odell Company, Newark, N. J., to effect the cancellation of the trade-mark registration of Theophilus O. Williams, 11–13 N. Sycamore St., Petersburg, Va., No. 190.302, dated October 14, 1924, and the receipt for the notice of such proceeding sent by registered mail to said Theophilus O. Williams at the said address having been returned bearing the notation "Deceased" endorsed thereon, notice is hereby given that unless the heirs, assigns or legal representatives of said Theophilus O. Williams shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

HENRY VAN ARSDALE,
Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., April 24, 1942.*

West Coast Textile Company, its assigns or legal representatives take notice:

An application for cancellation having been filed in this Office by Thistletex Weavers, Inc., 78 Franklin St., New York, N. Y., to effect the cancellation of trade-mark registration of West Coast Textile Company, Redlands, Calif., No. 163,416, dated January 9, 1923, and the notice of such proceeding sent by registered mail to the said West Coast Textile Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said West Coast Textile Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., April 24, 1942.*

West Coast Textile Company, its assigns or legal representatives take notice:

An application for cancellation having been filed in this Office by Thistletex Weavers, Inc., 78 Franklin St., New York, N. Y., to effect the cancellation of trade-mark registration of West Coast Textile Company, Redlands, Calif., No. 163,416, dated January 9, 1923, and the notice of such proceeding sent by registered mail to the said West Coast Textile Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said West Coast Textile Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Condition of Applications Under Examination at Close of Business April 25, 1942

(Total number of applications awaiting action, excluding Trade-Mark Division, 46,880; Trade-Mark Division, 1,009. Oldest new case, July 3, 1941; oldest amended, April 28, 1941.)
(The dates given are 1941 except where † indicates 1942)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Aug. 15	Aug. 18	725
6708	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Nov. 7	Oct. 21	667
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Dec. 11	Dec. 6	608
7063	4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating, Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	Nov. 29	Nov. 26	482
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	Nov. 28	Nov. 13	404
4898 C	6. LEWERS, A. M., Carbon Chemistry (part)	Sept. 25	Sept. 12	1,165
5725	7. JARBOE, C. G., Optics; Photography	Sept. 20	Sept. 18	1,065
3885	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	Oct. 16	Nov. 3	757
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Oct. 10	Oct. 14	628
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	†Jan. 6	†Jan. 1	361
5087 B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Nov. 7	Oct. 28	566
7701	12. SPINTMAN, SAMUEL (Act.), Machine Elements; Mechanical Starters; Stop Mechanisms	Aug. 20	Aug. 16	616
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Dec. 15	Dec. 17	622
5097	14. FREEHOF, H. B. (Act.), Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	Oct. 2	Sept. 25	1,126
4897	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Oct. 23	Oct. 23	553
5716	16. SPENCER, C. J., Telegraphy; Telephony	July 31	Aug. 4	995
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Oct. 24	Oct. 15	574
4612	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Sept. 24	Oct. 4	594
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Oct. 30	Oct. 14	406
6605	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	Dec. 13	Dec. 9	387
7723	21. THOMPSON, T. J., Textiles; Cloth Finishing	July 3	July 3	1,856
5600	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	July 29	July 17	236
7624	23. BUTTNER, W. J., Registers (part)	Oct. 14	Oct. 20	800
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Nov. 10	Nov. 10	492
5709	25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Nov. 28	Nov. 8	467
5893	26. YOUNG, R. R., Electricity, Generation; Motive Power	Sept. 11	Aug. 19	551
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	Oct. 27	Sept. 25	369
4628	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	Sept. 22	Sept. 23	683
5082	29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	†Jan. 13	†Jan. 15	409
4083	30. McCANN, L. P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Oct. 30	Oct. 30	1,476
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	Oct. 25	Oct. 25	888
4085	32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Oct. 8	Oct. 8	845
6096	33. KAUFFMAN, H. E. (Act.), Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads.	Aug. 1	Nov. 24	404
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Surface Track; Track Sanders; Draft Appliances; Signals and Indicators.	Aug. 16	Aug. 6	971
3876	35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Portable Receptacles	Oct. 17	Oct. 25	667
7892	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Dec. 31	Nov. 27	577
5886 B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Sept. 22	Sept. 22	718
3084	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stoneworking; Wells; Plastic Compositions.	Dec. 2	Dec. 15	514
4878	39. WHITNEY, F. I., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Sept. 26	Sept. 26	1,527
7880	40. DRUMMOND, E. J., Metallic, Wood, Paper, and Special Receptacles	Nov. 12	Nov. 5	543
7612	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	Nov. 24	Nov. 6	469
5882	42. CUTTING, H. O., Electric Signaling	Sept. 17	Sept. 17	846
4886 B	43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Nov. 10	Oct. 22	337
4087 B	44. HARVEY, L. P., Refrigeration	Aug. 14	Aug. 14	712
7093	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Sept. 10	Sept. 10	799
4613	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	July 28	Aug. 7	1,040
6082	47. KANOF, W. J., Clutches; Brakes	Sept. 11	Sept. 13	841
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Oct. 7	Oct. 11	681
7728	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Sept. 26	Sept. 26	1,585
4701	50. LEVIN, S., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	†Jan. 28	†Jan. 14	419
5628	51. BACKUS, C. D., Radiant Energy (part)	†Jan. 1	†Jan. 8	378
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	Sept. 4	†Apr. 28	547
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Dec. 16	Dec. 12	481
5883	54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	Dec. 5	Dec. 9	306
6883	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	Sept. 2	Aug. 30	1,342
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Nov. 25	Dec. 20	244
6613	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	Dec. 9	Dec. 10	413
5905	58. DOWELL, E. F., Abrading; Bottles and Jars	Aug. 11	Aug. 7	1,374
4709	59. SHEPPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	Nov. 14	Nov. 15	308
5896	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Oct. 6	Oct. 3	769
6724	61. YUNGKWAI, B., Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	Sept. 25	Aug. 25	674
5621	62. PUGH, E. C., Games; Geometrical Instruments	Aug. 5	Aug. 5	1,365
4885	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	Oct. 10	Oct. 9	1,668
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats and Glue; Liquid Coating Compositions; Fuel.	Oct. 31	Dec. 2	417
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	†Feb. 28	†Mar. 9	1,009
2099 B	Trade Marks: F. A. RICHMOND	†Mar. 17	†Mar. 30	571
2805	Designs: H. H. KALUPY			

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE DAVIS ET AL.

No. 4,554. Decided February 24, 1942

[125 F.(2d) 1014]

1. PATENTABILITY—METHOD—COMBINATION OF REFERENCES.

"It is not necessary that any single reference disclose the steps of a method claim, and where a method comprises a number of steps, each of which is old in the art, it becomes a question of whether invention rests in combining the steps in a process."

2. SAME—METHOD OF SYNTHESIZING OLEFINS.

Claims to a method of synthesizing olefins *Held* unpatentable in view of the prior art.

APPEAL from Patent Office. Affirmed.

Mr. Thomas E. Scofield for Davis et al.

Mr. W. W. Cochran (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

BLAND, *J.*:

The Primary Examiner of the United States Patent Office rejected claims 7 to 12, inclusive, of appellants' application for a patent for "Method of Synthesizing Olefins" and upon appeal to the Board of Appeals the decision of the Examiner rejecting said claims was affirmed. Appellants have here appealed from the decision of the Board.

The alleged invention is well described in the opinion of the Board as follows:

> The invention is a method of synthesizing olefins. Applicants employ as starting material saturated paraffinic hydrocarbons of such a high molecular weight that their monochlor derivatives melt lower than the hydrocarbons themselves. The hydrocarbons are first halogenated. By this halogenation step a mixture is obtained containing unhalogenated hydrocarbons, monohalogen derivatives and polyhalogen derivatives. The mixture is chilled and at successively lower temperatures, unhalogenated hydrocarbons, dehalogenated hydrocarbons, trihalogenated hydrocarbons and more highly halogenated hydrocarbons are separated from the mixture. Each one of these separate halogenated hydrocarbons are then dehalogenated.

The references relied upon by the tribunals below are: Pier et al., 2,189,924, February 13, 1940; Gardiner et al., 2,082,203, June 1, 1937; Graul, 1,202,282, October 24, 1916; British Patent No. 5,429, November 28, 1912.

The Examiner rejected claims 7 to 9 on the ground of aggregation. The Board disapproved of this ground and we are not concerned with the same.

All the claims, 7 to 12, inclusive, were rejected as being unpatentable over Pier et al. or Graul.

Claim 7 is illustrative of all the claims on appeal and reads:

> 7. A method of synthesizing olefins including the steps of halogenating saturated paraffinic hydrocarbons having such a high molecular weight that their monochloro derivatives melt lower than the saturated paraffinic hydrocarbons themselves, to form a crude halogenated mixture containing unhalogenated hydrocarbons, monohalogen derivatives and polyhalogen derivatives, chilling and separating the crude mixture at successively lower temperatures to obtain the relatively pure unhalogenated hydrocarbons, monohalogenated hydrocarbons, dihalogenated hydrocarbons, trihalogenated hydrocarbons and more highly halogenated hydrocarbons respectively and separately dehalogenating each of the relatively pure halogen derivatives to obtain the relatively pure unsaturated hydrocarbons.

Claim 7 is the broadest of the appealed claims. Claims 8 and 9 differ from claim 7 in that they are narrower, and claims 10, 11 and 12 are based, respectively, upon claims 7, 8, and 9, having added thereto the limitation that the dehalogenating step is practiced in the presence of an alkaline earth. It is conceded by appellants that if they are not entitled to claim 7, they are not entitled to any of the claims, and it is also conceded by the Solicitor for the Patent Office that if appellants are entitled to claim 7, they are entitled to all the appealed claims. In view of the concession of appellants and our conclusion as to claim 7, it is unnecessary to give separate consideration to the other claims.

Graul uses as a starting material petrol hydrocarbons consisting chiefly of normal pentane and isopentane. Claim 7 on appeal here is limited to a starting material of

> "saturated paraffinic hydrocarbons having such a high molecular weight that their monochloro derivatives melt lower than the saturated paraffinic hydrocarbons themselves."

The Examiner and the Board concluded that invention did not rest in employing a high molecular weight hydrocarbon as a starting material and separating the chlorinated products by chilling rather than by distillation. The Board called attention to the fact that Pier et al. teaches using high molecular weight hydrocarbons and separating the halogenated derivatives by cooling to successive lower temperatures. The Board evidently approved the Examiner's several reasons why the foregoing substitution was not deemed inventive and therefore not patentable over either Graul or Pier et al. The Examiner said in part:

> Furthermore, it is the Examiner's opinion that no invention is involved in substituting for the distillation step disclosed by Graul, other methods of separation such as fractional crystallization, with or without a solvent, as recited in claims 7 and 8, or by fractional liquefaction (sweating), as recited in claim 9. These methods for effecting separation [of] an organic mixture into its individual components are, in general, old. The particular method of separation which will be applied to a given mixture is, of course, a matter of discretion with the chemist and will, to a large extent, depend upon the nature of the mixture being separated. Applicant's argument that fractional distillation is not feasible with higher molecular weight materials may be true, but this does not mean it is impossible. * * *
>
> With respect to claims 10 to 12, it should be noted that Graul specifically discloses the use of lime, which is an alkaline earth, in the dehalogenation step.

The Examiner also rejected claims 7 to 9, inclusive, as lacking invention over Pier et al., particularly in view of Gardiner et al.. This ground of rejection was also approved by the Board. In view of the fact that we approve of the holding of the Board that the Examiner's rejection of claims 7 to 12, inclusive, upon either the patent to Pier et al. or Graul was proper, it is not necessary to describe the Gardiner et al. patent.

Appellants argue that no single reference disclosed their method and urge that the Patent Office tribunals should not have combined references to defeat their claims. It is not denied, however, that every step defined in appellants' claims is shown in the prior art. Appellants also apparently rely upon the limitation in the claims "to obtain the relatively pure unsaturated hydrocarbons." We think it was

properly pointed out by the Examiner that this distinction is one of degree and not one of kind and could not be relied upon to lend patentability to the claims. The Examiner stated:

* * * Obviously, the purer each halogenated fraction is before dehalogenation, the purer will be the resultant olefin.

Emphasis is also placed upon the fact that Graul starts with a relatively low boiling point hydrocarbon while appellants start with hydrocarbons having a high molecular weight. Pier et al. start with a high molecular weight hydrocarbon. The tribunals below held that the skilled chemist, without the exercise of inventive genius might use either class of hydrocarbons as a starting material. We agree with this conclusion. As we said in *In re Williams*, 24 C. C. P. A. (Patents) 861, 87 F.(2d) 499, 481 O. G. 216:

A process does not become patentably new merely because it is applied to a different object or material. [Citing authorities.]

The second step is that of chilling. Concerning the second step recited in the claims, the Examiner held it to be old in the art and that it would not be inventive to substitute it for the distillation step of Graul.

We have studied with care the completely concurring decisions of the tribunals below with respect to the rejection of the claims upon the prior art and have considered carefully all of appellants' arguments. The issue presented narrows down to the question as to whether or not it was inventive, in view of the prior art cited, to produce olefins in the manner defined by the claims involved.

[1] It is not necessary that any single reference disclose the steps of a method claim, and where a method comprises a number of steps, each of which is old in the art, it becomes a question of whether invention rests in combining the steps in a process. *In re Harrison*, 22 C. C. P. A. (Patents) 1341, 77 F.(2d) 635, 461 O. G. 954, and cases cited therein.

[2] Believing as we do that appellants have done nothing more than a skilled chemist in the art involved would do without the aid of inventive genius we must hold that the decision of the Board, affirming that of the Examiner, should be, and it is, affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

FARNSWORTH

v.

BROWN ET AL.

No. 4,588. Decided December 29, 1941

[124 F.(2d) 208]

1. INTERFERENCE—CONSTRUCTION OF COUNTS.

"The rule with respect to not reading unexpressed limitations into the counts of an interference is well settled, but, where a question of this nature is presented, it is necessary to examine the language complained of with care to determine whether such language in fact constitutes an unexpressed limitation, or whether it is an obvious concomitant of an expressed subject matter."

2. SAME—SAME.

The ruling of the Examiner of Interferences, approved by the Board, that the terms "diverting," "dividing," "abstracting," "changing," "shifting," recited in interference counts defining a method of operating an electron multiplier, "seem to necessitate a positive action on the electrons after they have passed through the perforated anode" *Held* not to constitute an unexpressed limitation read into the counts in the sense in which the term "limitation" is used in patent law, but to describe a condition which must be present to give vitality to the expressed limitations.

3. SAME—DISCLOSURE IN APPLICATION.

"We are not at liberty to speculate about a matter of method based solely upon a drawing, which matter, had it been regarded as important at the time of the filing of the application * * * surely would have been definitely described in the specification."

4. APPEAL—WEIGHT ATTACHING TO FINDINGS BELOW.

"Great weight must be given to the findings of the experts of the Patent Office, particularly upon a question of a highly technical character * * *. We are not at liberty to reverse such findings unless convinced that they were manifestly erroneous."

5. INTERFERENCE—PRIORITY.

Record reviewed and *Held* that the earlier application of F does not support the appealed counts and that priority as to these counts properly was awarded to B and R.

APPEAL from Patent Office. Affirmed.

Mr. Edwin M. Martin (*Mr. Harry E. Downer* of counsel) for Farnsworth.

Mr. Harry G. Grover, *Mr. Harry Tunick* and *Mr. Charles H. Brown* for Brown et al.

GARRETT, *P. J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming that of the Examiner of Interferences awarding priority to Brown and Roberts upon certain counts involved in an interference declared by the Primary Examiner between a divisional application of Brown and Roberts and a patent issued to Farnsworth. The subject matter, as stated in the decision of the Examiner of Interferences, "relates to electron multipliers and the method of operation thereof." We assume from the record that one purpose of the device and method is television use.

The case turns on the right of Farnsworth to rely upon an application (Farnsworth Exhibit K) filed May 7, 1935.

The Board states:

The interference involves Farnsworth Patent No. 2,091,439, the application for which was filed February 24, 1936, and an application of Brown and Roberts No. 97,722 filed August 25, 1936, which is a division of an application, Serial No. 46,980 filed October 28, 1935, and which has since matured into Patent No. 2,121,067. The sole question which Farnsworth brings forward is whether or not his earlier filed U. S. Patent No. 2,071,517 discloses the subject matter of the present counts. If it does not, Farnsworth cannot prevail on these counts.

To state the matter differently, it is the claim of Farnsworth that the subject matter of the appealed counts were disclosed in an application, filed May 7, 1935, which, on February 23, 1937, matured into Patent No. 2,071,517, and a copy of the application, Serial No. 20,157, including the "File Wrapper and Contents," was introduced in evidence as Farnsworth Exhibit K. It is conceded by Farnsworth that unless the subject matter of the counts

are disclosed in such exhibit, he cannot prevail, and it is, in effect, agreed by Brown and Roberts that if they are so disclosed Farnsworth is entitled to the award of priority. It appears that all the appealed counts were taken from Farnsworth's Patent No. 2,091,439.

As the junior party the burden rested upon Farnsworth to prove his case by a preponderance of the evidence (the applications having been copending) and he took testimony. Brown and Roberts took no testimony and so are confined to the filing date of their original application—October 28, 1935.

The interference was declared upon eleven counts, numbered consecutively 1 to 11. The Examiner of Interferences awarded Farnsworth priority as to count 2 and Brown and Roberts took no appeal from his decision. Priority as to all the remaining counts was awarded Brown and Roberts upon the ground that Farnsworth failed to disclose the subject matter of the counts in Exhibit K, and the Board affirmed the decision of the Examiner of Interferences.

Farnsworth acquiesced in the decision of the Board as to counts 1, 3, 4, and 10, but appealed to this court as to counts 5, 6, 7, 8, 9, and 11, which we here quote:

5. In an electron multiplier wherein electrons are directed against a cathode surface to produce secondary emission therefrom, the method of power production comprising oscillating electrons against and away from said surface to produce an electron cloud augmented by secondary electrons at each impact therewith, abstracting from the cloud through apertures in said surface a definite proportion of the electrons therein, and absorbing the energy from the abstracted electrons.

6. In an electron multiplier structure wherein an electron cloud is oscillated against and away from a surface to produce secondary emission therefrom upon impact therewith, the method of abstracting power from said cloud which comprises feeding energy to said cloud and abstracting energy from said cloud within different spatial boundaries.

7. In an electron multiplier structure wherein an electron cloud is oscillated against and away from a surface to produce secondary emission therefrom upon impact therewith, the method of abstracting power from said cloud which comprises dividing said cloud at each impact feeding energy to one portion of said cloud to continue multiplication and abstracting useful energy from the other portion.

8. In an electron multiplier structure wherein an electron cloud is oscillated against and away from a surface to produce secondary emission therefrom upon impact therewith, the method of abstracting power from said cloud which comprises feeding energy to electrons traveling along one set of paths, changing the paths, and abstracting power from said electrons while in said changed paths.

9. In an electron multiplier structure wherein an electron cloud is oscillated against and away from a surface to produce secondary emission therefrom upon impact therewith, the method of abstracting power from said cloud which comprises feeding energy to electrons traveling along one set of paths, continuously diverting a portion of said cloud into a different set of paths, and absorbing energy from said electrons while in said different paths.

11. In combination, a pair of opposed electrodes capable of emitting secondary electrons at a ratio greater than unity, a second pair of opposed electrodes incapable of emitting secondary electrons, adjacent said first pair, means for feeding energy to electrons in the space between said first pair of electrodes to produce electron multiplication by cyclical impact therewith, and means associated with said second pair of electrodes for absorbing power from said electrons.

It will be observed that all the appealed counts, except No. 11, are method counts. Counts 1, 3, and 4, as to which no appeal to us was taken, are for a device, as is No. 2 awarded to Farnsworth by the Examiner of Interferences and not appealed to the Board, while unappealed count 10 is a method claim.

In the respective decisions of the tribunals of the Patent Office certain counts not before us were grouped for discussion with some of those which are before us. This was natural and proper, of course, but as a result of it we have experienced some difficulty in our study of the case.

Counts 1 and 9 recite a means and the method respectively of *diverting* a portion of the cloud of electrons, counts 3, 4, and 7 recite *dividing* and *abstracting* a portion of the electrons, count 5 recites the *abstraction* of a portion of the electrons while counts 8, 9, and 10 recite the *changing*, *diverting* or *shifting* of the electrons to a different set of paths. [Italics quoted.]

The Board quoted only counts 1 and 8, neither of which were included in the appeal to us. We assume they were quoted as illustrative. After quoting them and analyzing a figure of the drawings of Farnsworth Patent No. 2,091,439, the Board said inter alia:

Count 1 involves the limitation—
"means for *diverting* a portion of said cloud into a space apart from that bounded by said surfaces," which in this figure [of Patent 2,091,439] apparently refers to the positively charged anode 10. Count 9 contains a similar limitation.
Other counts use the expression "means for abstracting, etc." and count 10 employs the expression "shifting the oscillation to a different predetermined path, etc." [Italics quoted.]

At a later point, after describing the pertinent parts of the Farnsworth Patent, No. 2,071,517, embodied in Exhibit K, the Board said:

It is our view that the position of the Examiner of Interferences is correct. Merely providing a perforated electrode will permit some of the electrons to pass through it but we do not think that the openings serve to "divert" or "abstract" or "shift" the electrons into the space between electrodes 2 and 5. The count in our opinion requires some means to positively move the electrons. * * *

As we interpret the respective decisions of the tribunals of the Patent Office, it was held that those counts grouped for discussion as above recited were not supported by the disclosure of Farnsworth Exhibit K as to the following limitations:

(*a*) " * * * means for diverting a portion of said cloud into a space apart from that bounded by said surfaces * * * "

(expressed in unappealed device count 1);

(*b*) " * * * means for dividing said cloud at the plane of one of said surfaces, means for abstracting one of the divided portions from the space bounded by said surfaces, * * * "

(expressed in unappealed device counts 3 and 4);

(*c*) " * * * abstracting from the cloud through apertures in said surface a definite proportion of the electrons therein, * * * "

(expressed in appealed method count 5);

(*d*) " * * * dividing said cloud at each impact feeding energy to one portion of said cloud to continue multiplication and abstracting useful energy from the other portion"

(expressed in appealed method count 7);

(*e*) " * * * changing the paths [of electrons], and abstracting power from said electrons while in said changed paths"

(expressed in appealed method count 8);

(*f*) " * * * diverting a portion of said cloud into a different set of paths, * * * "

(expressed in appealed method count 9); and

(*g*) " * * * shifting the oscillation [described in the count] to a different predetermined path, * * * "

(expressed in unappealed method count 10).

Appealed counts 6 and 11 will be more particularly discussed at a later point in this decision.

The brief for Farnsworth states:

No appeal is taken as to Counts 1, 3, 4, and 10 by Farnsworth which are relatively narrow counts directed to specific details.

While we are not directly concerned with the counts as to which no appeal was taken, it has been

deemed proper to set forth the action relative to them as an aid in the effort intelligently to discuss those which are before us, and, furthermore, as to certain specific features, we think there is a significance in Farnsworth's failure to press his claim to them to which reference may properly be made, particularly in view of certain of his arguments based upon the allowance to him of count 2.

Before us Farnsworth has placed emphasis upon the allowance to him of count 2 by the Examiner of Interferences and the fact that Brown and Roberts did not appeal from that award. The count is for structure and the concluding portion of it reads:

> * * * one of said surfaces being apertured to allow a portion of said cloud to pass therethrough at the time of each impact, and means for *absorbing* power from the electrons passing through said apertures. [Italics ours.]

We deduce from the decision of the Examiner of Interferences that the concluding clause—"means for absorbing (etc.)"—constituted the bone of contention respecting this count and he specifically pointed out the structural features shown in Exhibit K which, in his opinion, constituted such means.

We do not find that any of the appealed counts (or any of those not appealed) were denied Farnsworth because of any "absorption" means or method. By reference to the quotation from the decision of the Examiner of Interferences above stated, it will be observed that he italicized the words "diverting," "dividing," "abstracting," "abstraction," "changing," and "shifting." With respect to these he said:

> All of these terms recited in the counts seem to necessitate a positive action on the electrons after they have passed through the perforated anode and it is not believed that they are supported by any device such as the Farnsworth Patent 2,071,517 which merely permits the electrons to fall to the absorbing surface if they will.

Such terms as were named by the Board have been quoted, supra, and need not be repeated. It made no reference to the term "absorbing."

The foregoing with respect to the terms "absorbing" and "absorption" has been pointed out because of the fact that, as we interpret parts of the brief before us on behalf of Farnsworth, it seems to be his theory that the term "abstracting," as used in different of the counts is synonymous with the term "absorbing." For example, the brief, inter alia, says of appealed count 8:

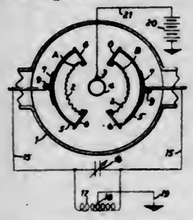
> The final step calls for "abstracting power from said electrons while in said changed paths". The power abstraction in Exhibit K occurs when the electrons in the equipotential spaces impact the electrodes 5—5. The Examiner of Interferences so held when he awarded Farnsworth priority with respect to Count 2 * * *. Since no appeal was taken from this holding, the party Brown and Roberts has admitted this.

Substantially the same thing is said of the limitation "abstracting useful energy from the other portion" in appealed count 7. (For explanation of numerals, 5—5, see facsimile and explanatory matter hereinafter appearing.)

Count 2 contains the word "absorbing" but not the word "abstracting." It does not contain the terms "dividing," "diverting," "shifting," or "changing." We think it obvious that the tribunals of the Patent Office, in interpreting the counts, must have made a distinction as to the meaning of the respective terms, "abstracting" and "absorbing," and it appears to us that there may be a distinction.

It seems to us legitimate to state that we deduce from Farnsworth's failure to appeal as to the device counts 1, 3, and 4 that he, in effect, conceded that his Exhibit K did not disclose structural means for "diverting" or "dividing" the electron clouds. It may be that they are "relatively narrow counts directed to specific details" which appears to be the reason stated in the brief for not including them in the appeal to us, but it is scarcely conceivable that the bearing which structure of that nature, if present, would have had upon the appealed method claims—or some of them at least—could have been wholly overlooked. A careful analysis of the appealed counts leads to the conclusion that the "method of abstracting" consists in or comprises dividing or diverting the electron clouds, so as to get them into a different set of paths, or to change the paths. It would seem to us, superficially at least, that if Farnsworth Exhibit K had disclosed means for dividing and diverting, there would have been little difficulty with respect to the method counts.

We have studied the analyses of the different counts made in the brief for Farnsworth with great care in the light of the disclosures embraced in Exhibit K. A facsimile of Fig. 2 of the exhibit, upon which he relies principally to establish disclosure is herewith presented



The Board, after describing, evidently for the purpose of comparison, Fig. 2 of the Farnsworth Patent 2,091,439, the one involved here, and pointing out the features which there disclosed the subject matter of the counts, described Fig. 2 of Exhibit K, upon which Farnsworth must rely, as follows:

> In the Patent No. 2,071,517, Fig. 2 discloses an electron multiplier having a central open mesh anode grid 4 and a pair of cathodes A and B at opposite sides of this grid. Each cathode comprises a collecting electrode 5 spaced from a screen 2. The electrode 5 and screen 2 are electrically connected together at their ends by means of conductors 6, 6.

The Board then stated that Farnsworth Patent 2,091,439

> "shows means for positively acting on the electrons, namely anode 10 [an element shown in Fig. 2 of Patent No. 2,091,439], but his prior Patent No. 2,071,517 does not show such means."

The analysis of Fig. 2 of Exhibit K made by the Board does not seem to be questioned, but the brief for Farnsworth says:

> Although the device of Exhibit K may be used as a straight current multiplier * * *, as connected in Fig. 2, it operates as an oscillator. In the operation of this device as an oscillator, free electrons initially existing in the space between the cathodes 2—2 are accelerated toward one or another of these cathodes by the potentials applied to the anode 4 and the cathodes 2—2. When the electrons strike either of the cathodes 2—2, they cause secondary emission at a ratio greater than unit. This cloud of electrons between the cathodes 2—2 will oscillate in synchronism with the high-frequency potential appearing across the resonant circuit 16—17.
>
> Some of the electrons constituting the oscillating electron cloud are diverted or pass through the apertures of the cathodes 2—2. These diverted electrons pass into the areas bounded by collecting electrodes 5—5 and cathodes 2—2, and they impinge the electrodes 5—5, to which they give up their energy, which energy is thereafter used by the resonant circuit 16—17. Thus, the electrons are multiplied in the region between the cathodes 2—2, some of the multiplied electrons are divided or diverted into the areas bounded by the elctrodes 5—5 and the cathodes 2—2, and when these electrons are in these areas, they give up their energy to the electrodes 5—5.

That various structural features of the appealed method counts recited in their several introductory clauses are disclosed in Fig. 2 of Exhibit K is obvious, but (except as to count 11) we are not concerned with structure. The question is whether the method of the counts is disclosed, particularly the specific limitations which have been recited above in detail as to counts 5, 7, 8, and 9, the counts now under discussion, and with respect to this it seems to us that any conclusion regarding it would of necessity be purely speculative. The specification of Exhibit K throws practically no light, so far as we can determine, upon the crucial question of whether in the use of such means as are disclosed the method of the counts would be obtained.

We think it clear from the brief and argument on behalf of Farnsworth that it is virtually conceded that no definite means are shown for supplying the actions called for in the above cited limitations of the appealed method claims, 5, 7, 8, and 9.

It is contended, however, by Farnsworth, in effect, that it was not necessary to disclose means in support of the method claims, and that the holding of the Examiner of Interferences that all the terms ("diverting," "dividing," "abstracting," "changing," "shifting," the latter term appearing in only unappealed claim 10) recited in the counts "seem to necessitate a positive action on the electrons after they have passed through the perforated anode" (approved by the Board which said, "The count [referring particularly to illustrative count 1] in our opinion requires some means to positively move the electrons") read limitations into the counts and urges the familiar rule, as expressed, for example, in the case of *Altvater* v. *Knight*, 23 C. C. P. A. (Patents) 902, 82 F.(2d) 611, 469 O. G. 269, that "courts may not in an interference proceeding, read limitations into a count which are not clearly expressed therein."

Farnsworth insists that this presents a question of law and the brief on behalf of Brown and Roberts asserts that it is raised before us for the first time. We do not find any discussion of it as a limitation in the decision of either of the tribunals of the Patent Office.

[1] The rule with respect to not reading unexpressed limitations into the counts of an interference is well settled, but, where a question of this nature is presented, it is necessary to examine the language complained of with care to determine whether such language in fact constitutes an unexpressed limitation, or whether it is an obvious concomitant of an expressed subject matter.

It may not be overlooked that it is a condition precedent to the obtaining of a patent that the applicant shall, in his written application, describe his claimed invention or discovery in

> "such full, clear, concise, and exact terms as to enable any person skilled in the art * * * to make, construct, compound, and use the same."

This, of course, applies to method as well as to structure.

[2] It seems to us that the language which Farnsworth here insists is an unexpressed limitation read into the counts is not such in the sense in which the term "limitation" is used in patent law but that it describes a condition which must be present to give vitality to the expressed limitations. The reasons of appeal as to counts 5 to 9, inclusive, are, therefore, held to be without merit.

Of count 6 (which, it may be said, was not specifically mentioned in the decision of the Board) the Examiner of Interferences said:

> Count 6 recites the method of abstracting energy from the electron cloud within different spacial boundaries from those wherein energy is fed to the cloud and it does not appear that this method is supported by the disclosure in the Farnsworth patent under discussion. The absorbing surfaces 5 are directly connected to the emissive surfaces 2 and any energy that may be supplied is supplied through the entire space between surfaces 5 and hence the energy can not be said to be absorbed in any different spacial boundary.

The brief on behalf of Farnsworth states:

> After the electrons pass through the apertures in the cathodes 2—2, they enter into the spaces between the cathodes 2—2 and the electrodes 5—5 and it is then that energy is absorbed from the electrons. In the space between the cathodes 2—2, there exist an electrical field and a gradient of electrical potential, while no electrical field and no potential gradient exist in the spaces between the cathodes 2—2 and the electrodes 5—5. It is evident, therefore, that these spaces are different physically as well as electrically. The potential applied to the anode 4 is effective in creating an electrical field in the area between the cathodes 2—2, whereas it is not effective in creating an electrical field in the spaces between the cathodes 2—2 and electrodes 5—5. This is true because the cathodes 2—2 shield the equipotential spaces against the effect of the potential applied to the anode 4. It is appreciated by the party Farnsworth that jumpers 6—6 connect electrodes 5—5 and cathodes 2—2. It is because of these connections that the areas between the cathodes 2—2 and electrodes 5—5 are *equipotential*. However, jumpers 6—6 cannot, in any sense, be said to create one spatial boundary out of separate and distinct spatial boundaries. Exhibit K shows a *separate spatial boundary* in which an electric field exists and in which energy is fed to a cloud of electrons (the spatial boundary between the cathodes 2—2) and *different spatial boundaries, separate and distinct both electrically and physically*, in which energy is abstracted from "said cloud". These latter areas are the ones bounded by the cathodes 2—2, the electrodes 5—5 and the jumpers 6—6. [Italics quoted.]

[3] If the foregoing quotation from the brief had appeared in substance in the specification of Exhibit K, it is possible that a different situation relative to count 6 might have been presented, but we fail to find in the specification anything which teaches what is stated in the brief. We are not at liberty to speculate about a matter of method based solely upon a drawing, which matter, had it been regarded as important at the time of the filing of the application embodied in Exhibit K, surely would have been definitely described in the specification. Farnsworth evidently did describe it to the satisfaction of the Patent Office tribunals in the specification of the application upon which the involved patent was based, but we are unable to find where

he described it in the application here critical.

[4] Furthermore, great weight must be given to the findings of the experts of the Patent Office, particularly upon a question of a highly technical character such as is here before us. We are not at liberty to reverse such findings unless convinced that they were manifestly erroneous, and we are not so convinced as to count 6.

As has been indicated, count 11 is a device count. Both tribunals below discussed it separately from the other counts and both rejected it for the same reason, which appears in the following statement of the Board:

Count 11 also fails to read on the prior patent because it recites a pair of opposed emissive electrodes and a second pair of non-emissive electrodes adjacent the first pair. The screen 2 and absorbing electrode 5 of the prior patent are electrically tied together and constitute a single electrode and therefore the patent fails to show separate and distinct pairs of electrodes as required by the count.

It will be noted that count 11 contains certain statements of a functional character which, while explanatory of the operation of the structural features, do not affect the question of the structure itself so far as the issue before us is concerned. The count clearly calls for a pair of electrodes. Fig. 2, supra, of Exhibit K, discloses the elements 5—5 which the specification designates as "collecting electrodes," and the elements 2—2 designated as "screens." These are tied together by the elements 6—6 designated as "jumpers."

From such knowledge as we possess respecting the action of electrical currents, we are unable to discern how the electrodes and screens thus tied together may constitute other than a single electrode, as was held below, and we are not convinced of error as to this by the analysis and argument presented by Farnsworth's counsel.

[5] For the reasons stated, the decision of the Board is affirmed as to all the appealed counts.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE HELMOND

No. 4,410. Decided on rehearing December 29, 1941. Original decision March 31, 1941, 532 O. G. 773, 118 F. (2d) 574

[124 F.(2d) 222]

PATENTABILITY—TYPEWRITER STOP RACK.

Upon rehearing, certain claims of an application relating to a one-piece channel-shaped stop bar or rack for a typewriting machine *Held* patentable over the prior art as an exception to the general rule that there is no invention in forming a member in one piece instead of several pieces secured together, where no change in function or operation is involved.

APPEAL from Patent Office. On rehearing—reversed.

Mr. Jesse A. Holton (*Mr. Louis G. Julihn* of counsel) for Helmond.

Mr. W. W. Cochran (*Mr. Howard S. Miller* of counsel for the Commissioner of Patents.

JACKSON, *J.*:

This appeal is before us for the second time by reason of a petition for rehearing filed April 21 1941, which was granted June 26, 1941. Our former decision, although it appears in 28 C. C. P. A. (Patents) 1013, 118 F.(2d) 574, 532 O. G. 773 and 49 U. S. P. Q. 71, did not become final, because set aside by the granting of the petition for rehearing.

In our former decision we affirmed the decision of the Board of Appeals of the United States Patent Office which affirmed that of the Primary Examiner rejecting, in view of the prior art, claims 58, 60, and 61 of an application for a patent for certain new and useful improvements in typewriting machines. There are no process claims and our affirmance was based on our conclusion that although a process claim for making the involved device might have been patentable, the rejected claims for an article only were not patentable.

Reconsideration of the issue after hearing further and more detailed presentation of the facts and law involved, convinces us that the decision appealed from should be reversed.

Ten claims of the application were allowed.

Claim 60 illustrates the nature of the subject matter involved and reads as follows:

60. In a typewriting machine; an open-channel-form tabulating stop rack consisting of a base wall and two opposite side walls, said base wall having tabulating stop receiving perforations and the opposite inner faces of said side walls having stop-receiving grooves corresponding to said base wall perforations and forming stop-buttressing teeth, said rack being a continuous sheet metal piece on opposite margins of which aligned grooves are provided, the piece being formed in channel shape thus presenting the grooves in opposed relation on the inner faces of the side walls.

The references cited are: Kurowski, 1,145,373, July 6, 1915; Helmond, 1,901,162, March 14, 1933.

The invention disclosed in the application of appellant relates to a one-piece channel-shaped stop bar or rack for a typewriting machine. The rack carries a number of stops, one for each letter space, which may be set, and when a counter stop is raised it will project into the path of the set stop and arrest movement of the carriage. The said bar or rack has a slotted base through which the stops project above the rack and the side walls are grooved on the inside to form guides for the stops and abutments to prevent movement of the stops in the rack when meeting a counter stop.

The claims on appeal relate to the stop rack only.

The cited patents are the property of appellant's assignee, Underwood Elliott Fisher Company, and the patentee Helmond of the reference patent is the appellant here.

The patent to Kurowski relates to typewriting machines and more particularly to a series of stops which are adapted to be selectively set into position to cooperate with counter stops. The patent states that

"The support or frame which carries the stops may comprise a rack bar or bars formed with internal teeth which separate and guide the stops. Spring detents are preferably provided and arranged to hold the stops in any position in which they may be standing. These detents may comprise spring pressed balls adapted to seat in recesses formed in the edges of the stops."

The drawings of the patent show that the stop rack is of channel shape with a slotted base and inside grooved side walls. The side walls and base are separate pieces secured together by screws at the ends thereof.

The Helmond patent relates primarily to a stop rack used in typewriting machines. It is stated in the specification that a feature of the invention is the construction of a column-stop-bar in the form of a metal tube, which may be made of steel and in oblong rectangular form. The tube, it is stated, is a regular article of commerce. The rack is made by cutting slots transversely in the top and bottom sides thereof, the slots on each side cooperatively registering with those on the other side.

In rejecting the involved claims the Primary Examiner applied the general rule, that there is no invention in forming a member in one piece instead of several pieces secured together, where no change in function or operation is involved, especially as the Helmond reference discloses that it is old to make a stop rack of one piece construction.

The Board of Appeals agreed with the reason for rejection by the Examiner, and further stated in its decision that

"It is a matter of common knowledge to make things of sheet metal and it appears that applicant has done no more than to make Kurowski's device of sheet metal."

Appellant's contention is that in order to invoke the rule applied below the results and advantages of appellant's construction must have been obvious to the ordinary workman in the art, and that it must have been obvious how the references could be modified to make the one-piece channel construction shown by appellant, and that neither of these two factors was obvious.

The advantages over the prior art claimed by appellant to be possessed by the rack herein are that it was the first to meet commercial needs, its great strength, extreme simplicity, exceptional lightness and economy in manufacture.

The advantages claimed by appellant are not disputed and the sole question to be decided by us is whether or not, in the light of the particular facts in this case, it required exercise of the inventive faculty to construct the rack of a single channel shaped piece of cold drawn metal provided with side walls having stop receiving grooves corresponding to said base wall perforations and forming tabulating-stop-buttressing teeth internally along the inner sides of the channel and homogeneously integral with said side walls. In other words, do the facts in this case bring it within a recognized exception to the general rule applied by the tribunals of the Patent Office?

An examination of the Kurowski device discloses that the side pieces of the rack are connected by means of a casing extending across the tops and sides thereof. In recesses in the sides there are coiled spring and ball detents which cooperate with notches in the stops as they operate in either an up or a down position. This detenting system we think could not be carried into a single piece rack construction made by casting for the reason that it seems in the restricted space present in such a single piece rack it would be impracticable if not impossible to bore holes from the inside of the side walls. If holes were bored from the outside it would be necessary to provide for some kind of plate or cap to hold the detents in place, and then of course the rack would not comprise a single piece. If the attempt were made to form the Kurowski rack from flat cold drawn stock, before bending it into channel form the ball and spring detents would have to be inserted. Then when the channel shape had been made the stops could not be placed in position. Therefore it would appear that before the rack of Kurowski could be made in a single piece, it would be necessary to do away with the detent structure shown in the rack of that patent, and to devise some other detenting means which seemingly might involve another invention. Without detenting means of some kind any rack for a typewriting machine would be utterly useless. Since detenting of the stops is a necessary function of a rack bar, it appears to us that the problem presented in making the rack bar of Kurowski in one piece presents somewhat more than merely making in one piece that which had formerly been made in three pieces. We are of opinion that it would not be obvious to one skilled in the art to modify the Kurowski device so as to make a rack of one piece construction.

The reference patents, as stated above, are owned by appellant's assignee, Underwood Elliott Fisher Company and appellant has long been associated with said company in charge of its standard typewriter development. He certainly must be considered as skilled in the art. The Kurowski patent, dated July 6, 1914, must have been before him while he was engaged in constructing the rack device of the Helmond patent, dated March 14, 1933, and if it required no more than mechanical skill to construct the rack of Kurowski in one piece, he, though skilled in the art, did not do so. His purpose as can be seen from his Helmond patent, was to construct a stop rack of one piece construction, and this rack differed essentially from the Kurowski rack.

While the Helmond reference discloses a single piece stop rack it is quite different from the rack shown in the application herein. It is a light rectangular tube, "a regular article of commerce", in which have been cut slots, extending across the top and bottom faces, through which slots the stops are activated. The stops are provided each with a spring contained therein, made by making a slit near one of the side edges thereof dividing the stop longitudinally into a body portion and a spring portion, which latter portion is bent a little. The rack of the Helmond patent differs in form from the rack of the involved application in that it is a rectangular tube and the rack of the application herein is of channel form. The rack of the patent is heavier, less efficient and more expensive to manufacture than is the rack described in the claims. It is clear to us that the rack of the Helmond patent would not suggest making a stop rack in the form defined in the rejected claims.

It will be apparent that a problem existed in this art which was satisfactorily solved by appellant. The chief difficulty presented was in discovering the structure necessary to provide such a rack. This difficulty was overcome by appellant. He took a flat blank of sheet metal and formed the stop-buttressing teeth by milling across one face of the blank thereby forming the teeth for the rack walls. Then a longitudinal groove, in width about that of the top wall of the rack, was made along the middle of the tooth-bearing face. The grooving produces a flat surface and the portion of the blank that has been grooved is thinner than the portion containing the buttressing teeth. Then the tooth portion of the metal was bent up on both sides of the grooved surface to produce the channel shape. By reason of the grooving, when the metal is so bent, there is no distortion of the teeth and no excess or bunched metal in the bends. After the bending operation the stop-admitting slots are formed on the base of the rack by another milling cutter operation.

We think that it should be said of the rack of appellant's application that it required invention to produce it. *In re Eugene Otto and Casper Heinrich*, 28 C. C. P. A. (Patents) 1326, 121 F. (2d) 553 and the cases therein cited.

For the reasons herein set out the decision of the Board of Appeals is reversed.

Reversed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

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1,426,955, 1,468,193, L. L. Carter, Oil, gas and water separator for oil wells, D. C., E. D. Tex. (Tyler), Doc. E 926, *Dee Co. et al.* v. *Gant & Wegener.* Judgment dismissing cause without prejudice Mar. 20, 1942.

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1,530,981, O. O. Ceccarini, System of space discharge devices; 1,799,189, D. F. Whiting, Energizing electron tubes; 1,936,162, R. A. Heising, Transmission system; 2,086,595, S. E. Anderson, Electric wave translating system, D. C., S. D. N. Y., Doc. 17/206, *Western Electric Co., Inc.*, v. *Radio Wire Television, Inc. of N. Y.* Dismissed (notice Mar. 17, 1942).

1,534,929, H. V. Dunham, Manufacture of chewing gum; 1,534,930, same, Treatment of India rubber for use in chewing gum; 1,534,931, same, Process of making chewing gum base; 2,076,112, J. O. Barker, Masticable material; 2,190,180, same, Chewing gum material; 1,930,436, same, Manufacture of chewing gum base; 1,975,447, E. V. Canning, Chewing gum material and method of making same; 2,050,272, same, Manufacture of chewing gum base, filed Feb. 25, 1942, D. C., S. D. N. Y., Doc. 17/314, *Sweets Laboratories, Inc.*, v. *Phil Silvershein Corp., I. & H. Kamber and Gum, Inc.*

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1,747,206, D. A. Wilson, Overhead door construction; 2,196,903, Rowe & Norberg, Overhead door track construction; 2,264,642, A. V. Rowe, Overhead door construction, filed Mar. 16, 1942, D. C., N. D. Iowa (Cedar Rapids), Doc. 52, *Rowe Mfg. Co.* v. *Hall Mfg. Co.*

1,756,043, F. E. Weidhaas, Stage curtain or drop; 1,900,677, G. A. Weidhaas et al., Curtain and controlling means therefor, D. C., S. D. N. Y., Doc. 4/121, *F. E. Weidhaas* v. *Loew's, Inc. et al.* Judgment (notice Feb. 25, 1942).

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1,799,189. (See 1,530,981.)

1,871,825. (See 2,053,284.)

1,879,863. (See Re. 19,744.)

1,900,677. (See 1,756,043.)

1,904,496, 1,987,781, R. Maw, Hydraulic transmission system, D. C., Minn., 4th Div., Doc. 267, *R. Maw* v. *Northern Pump Co., Inc.* Dismissed without prejudice Mar. 3, 1942.

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2,029,249, 2,029,250, 2,041,616, Noell & Hoeme, Mobile ground working device, D. C., N. D. Tex. (Amarillo), Doc. E 577, *F. W. Hoeme* v. *Joeffroy Mfg. Co.* Dismissed Oct. 7, 1941.

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2,050,272. (See 1,534,929.)

2,053,284, Grau & Lundeen, Elevator for external upset pipe; 1,871,825, N. K. Smith, Elevator latch, D. C., S. D. Calif. (Los Angeles), Doc. 685–M, *Byron Jackson Co.* v. *W. W. Wilson.* Dismissed as to 2,053,284, Jan. 27, 1942; claims 1, 4 and 11 of 1,871,825 held valid and infringed, injunction Mar. 7, 1942.

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2,083,417. (See 1,772,824.)

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Des. 131,275. (See 2,272,149.)

Changes in Classification

Order No. 3618, April 13, 1942, directs:

In *class 8, Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers* (Division 43), establish the following subclasses and definitions:

Dyeing processes and compositions
Non-textiles
6.5 Wood (including stains).
Treatment of textiles and fibers with chemicals and fluids.
136.5 Preserving (including mothproofing).

6.5 Methods and compositions under subclass 3 for the coloring of wood.
(1) Note.—See class 106, COMPOSITIONS, COATING OR PLASTIC, subclass 34, for staining compositions which include, as a coloring agent, a material not of the dye type.
(2) Note.—For coloring of growing timber by injection of coloring agents into living plants, see class 47, PLANT HUSBANDRY, subclass 57.5.

136.5. Treatment of textile materials for the purpose of preserving them against deterioration or attack by fungi or insects such as, for example, mothproofing and mildewproofing.
(1) Note.—See class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, appropriate subclasses, particularly subclass 136 and indented subclasses, for processes of fireproofing fabrics, which processes may also render the fabrics moth- or mildew-proof.
(2) Note.—See class 167, MEDICINES, POISONS AND COSMETICS, subclass 37, for mothproofing compositions, and subclass 38.5 and indented subclasses, for other textile preservative compositions.
(3) Note.—For mothproof receptacles, see class 206, SPECIAL RECEPTACLES AND PACKAGES, subclass 10, and class 312, SUPPORTS, CABINET STRUCTURES, subclass 31 and indented subclasses, for mothproofing cabinets combined with means to treat contained material with a gas or vapor where the means may be a slow diffuser or absorber.
(4) Note.—See this class, subclass 96, for preservation of weighted material against destructive action of weighting material, subclass 133, for protection of fiber during treatment in acidic or alkaline bath, and subclass 134, for the protection of color on dyed fabrics during bleaching, scouring or bowking treatments.

The patents contained in subclass 6.5 have been taken from class 8, subclass 3, and from class 21, Preserving, Disinfecting and Sterilizing, subclass 16 and indented subclasses, abolished in this order, and those in subclass 136.5 have been taken from class 21, subclasses 4–6, abolished in this order.

In *class 8, Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers* (Division 43), change the titles of subclasses 133 and 134 to read:

Treatment of textiles and fibers with chemicals and fluids
133 Fiber protecting during fluid treatment.
134 Color protecting during fluid treatment.

In *class 21, Preserving, Disinfecting and Sterilizing* (Division 63), abolish subclasses 3 to 6.5, 8, 10, 12, 13 and 15 to 52, both inclusive, with their definitions. The patents formerly contained in these subclasses have been placed in class 117, Coating; Processes and Miscellaneous Products, established in this order, and into class 8, Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers.

In *class 91, Coating* (Division 38), abolish the following subclasses with their definitions:

67.9 **Fabric coating and printing**
67.95 Fraud preventing or detecting.
68 **Processes**
69 Photographic film and plate,
69.1 Mirrors or reflectors,
70 With heat
70.1 With metal
70.2 Molten
70.3 Preparation,
71 Japanning,
72 Vitreous
73 On metal,
68.1 With metal
68.3 Precipitation.

The patents formerly contained in these subclasses have been placed for the most part in class 117, Coating; Processes and Miscellaneous Products, established in this order.

In *class 260, Chemistry, Carbon Compounds* (Division 50), change the title of subclass 787 to read:

Vulcanizable natural hydrocarbon gums
Reaction products and processes for preparing same
Sulfurized (vulcanized)
With accelerator,
Organic compound containing
Heterocyclic
Thiazoles
787 Non-oxo-carbonylic.

In *class 8, Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers* (Division 43), main class definition, after the second paragraph insert:

This class also includes the products resulting from the treatments within this class when such products are not more specifically provided for elsewhere;

in subclass 3, in the last sentence of the definition cancel "wood"; cancel note (2); in note (6) change "subclass 148" to *subclasses 103 and 148;* in note (11), first sentence, change "91, Coating, subclass 68" to read:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, subclass 39;

and cancel note (13); in subclass 7 cancel note (2) and substitute:

(2) Note.—See class 91, COATING, subclass 9, and class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, subclass 39, for apparatus and processes, respectively, for marbleizing paper and other materials by coating; class 117, subclass 1, for processes of imparting fraud preventive characteristics to paper by a coating process and the safety paper so produced; class 106, COMPOSITIONS, COATING OR PLASTIC, subclass 20 and indented subclasses, for fraud preventive inks; class 283, PRINTED MATTER, subclass 8 and indented subclasses, for fraud preventing checks and papers which are more than coated or impregnated bases; and see this class (8), subclass 16, for marbleizing fabrics with dyes;

in subclass 8, note (2), change "91, Coating, subclass 68" to read:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, particularly subclasses 54, 88, 97 and 123 and indented subclasses;

in subclass 16, note (3), change "91, Coating, subclass 68" to read:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, subclass 39;

in subclass 18, note (4), change "91, Coating" to read *117, Coating; Processes and Miscellaneous Products;* in subclass 52, cancel note (4) and substitute:

(4) Note.—For similar processes wherein insoluble metal compounds are formed in situ for the purposes of fireproofing fabrics as well as other materials, see class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, subclass 136 and indented subclasses;

in subclass 62, note (2), in the last sentence change "91, Coating, subclass 68" to read *117, Coating; Processes and Miscellaneous Products* in subclass 95, note (2), cancel the first two sentences of the second paragraph and substitute:

For methods of incorporating metallic compounds in materials generally, such as, for example, by precipitation in situ, see class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, appropriate subclasses, especially subclasses 136 and indented subclasses, 150, 151, 167 and 169. For mothproofing, mildewproofing, and protecting against parasites by means of metallic or other compounds, see this class, subclass 136.5;

in subclass 115.5, add the following note:

(4) Note.—Because of the similarity in the chemical behavior of paper and cellulosic textile bases, the chemical modification of paper is included in this subclass and the indented subclasses;

in subclasses 115.6 and 118, in the note to each, change "91, Coating" to *117, Coating; Processes and Miscellaneous Products;* in subclass 123, cancel the note and substitute:

Note.—See class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, appropriate subclasses, particularly subclasses 148, 157 and 166, for deposition of a cellulosic coating on a cellulosic base from a solution not prepared from the surface portion of the cellulosic base;

in subclass 132.5 cancel note (4) and substitute:

(4) Note.—For the treatment of fibers and fabrics for the purpose of fireproofing, see class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, subclass 136 and indented subclasses, and classes 106, COMPOSITIONS, COATING OR PLASTIC, subclass 15 and indented subclasses, and 252, COMPOSITIONS, subclass 8.1, for compositions therefor;

in note (6), first paragraph, change "91, Coating" to read *117, Coating; Processes and Miscellaneous Products;* in the second and third paragraphs change "class 91" to *class 117;* cancel the fourth and fifth paragraphs and substitute:

Class 8 also takes all non-reactive fluid treatments of textiles which do not result in the production of a solid adherent skin coating on the textile base, and as to treatments with coating materials which are capable of forming skin coatings, it takes those treatments where the coating material is not employed in such amounts as to produce a skin coating but only to impregnate or become absorbed in the textile base, and the primary purpose of the treatment is to effect a result specifically provided for in this class (8), such as, for example, mordanting, weighting, delustering artificial silk, carroting, fulling, mothproofing, mildewproofing, color or fiber protection during treatment of the textile base in acidic or alkaline baths, increasing safe-ironing point of thermoplastic textiles, making fabrics crease resistant, preventing runs in hose, or other faultproofing, rendering fabric anti-static, lubricating, softening, swelling and handle improving.

Class 91 takes all other fluid treatments of textiles which result in the production of solid, adherent films on textile bases including non-reactive fluid treatments combined therewith;

and in subclass 133 change note (4) to read:

(4) Note.—For rot-proofing of fabrics generally and protection against parasites, see this class, subclass 136.5.

In *class 15, Brushing, Scrubbing and General Cleaning* (Division 27), subclass 130.1, note (6), in the last sentence thereof change "91, Coating, subclass 68 and indented subclasses" to *117, Coating; Processes and Miscellaneous Products.*

In *class 18, Plastics* (Division 15), main class definition, in the next to the last paragraph, change "91, Coating" to *117, Coating; Processes and Miscellaneous Products;* in subclass 29, note (1), cancel "subclasses 67.8 and 68 and indented subclasses" and substitute:

subclass 67.8, and class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, appropriate subclasses;

in subclass 48.8, note (2), change "91, Coating" to *117, Coating; Processes and Miscellaneous Products;* in subclass 53, note (1), cancel "91, Coating, subclasses 68 and 70" and substitute:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, appropriate subclasses, particularly subclasses 77 and indented subclasses, 106, 118, 133, 146, 148, 155, 162 and 163;

and in subclass 60 note (2), change "91, Coating" to *117, Coating; Processes and Miscellaneous Products.*

In *class 19, Textiles, Fiber Preparation* (Division 21), subclass 66, in the reference to class 91, Coating, cancel "and methods"; and add to the note:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, for coating processes in general.

In *class 20, Wooden Buildings* (Division 33), subclass 100, cancel note (1) and substitute:

(1) Note.—Posts merely impregnated or saturated with a preservative or hardening material throughout all or a portion of their length to preserve them, or if merely coated for the same purpose, are classified in class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, with the processes of coating, for example, subclasses 57 and indented subclasses, 108, 116 and 117, or subclass 147 and indented subclasses, which provides for wood as a base. The provision per se of holes or bores to receive a preservative material is also classified in class 117, subclass 58.

In *class 21, Preserving, Disinfecting and Sterilizing* (Division 63), in the main class definition, cancel note V and substitute:

V. By coating or impregnating.

Processes of preserving substances by coating or impregnating are in general classified in class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, or in classes

referred to in the notes to the main class definition of said class.

Processes of preserving chemical compounds classifiable in classes 23, CHEMISTRY, and 260, CHEMISTRY, CARBON COMPOUNDS, by a coating operation are in class 117, except when the compound so preserved is also claimed, when it is classified in the appropriate compound subclass and cross-referenced to class 117;

in subclass 7, note (1), change "91, Coating," to *117, Coating; Processes and Miscellaneous Products;* and in subclass 60.5, note (1), change "91, Coating" to *117, Coating; Processes and Miscellaneous Products.*

In *class 25, Plastic Block and Earthenware Apparatus* (Division 15), subclasses 154 and 156, under "Search classes" in each change "91, Coating" to *117, Coating; Processes and Miscellaneous Products.*

In *class 26, Textiles, Cloth Finishing* (Division 21), main class definition, note (1), cancel the reference to class 91, Coating, and substitute:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, for coating or impregnating of cloth not specifically provided for in class 8;

and in subclass 19 in the reference to class 91, Coating, cancel "and processes of".

In *class 28, Textiles* (Division 21), main class definition, in note (2) insert in the proper numerical order:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS;

in subclass 28, note (2), change "91, Coating" to *117, Coating; Processes and Miscellaneous Products;* and in each of subclasses 57, 59 and 62, under "Search classes" add:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS.

In *class 29, Metal Working* (Division 13), subclass 81, note (2), cancel the reference to class 91, Coating, and substitute:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, subclass 49 and indented subclasses;

and in subclass 162, note (1), cancel "91, Coating" and substitute:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, appropriate subclasses, particularly subclasses 50 and indented subclasses, 97, 105, 107 and 114.

In *class 34, Drying and Gas or Vapor Contact with Solids* (Division 49), main class definition, note (2), cancel the reference to class 21, Preserving, Disinfecting and Sterilizing, and substitute:

21—PRESERVING, DISINFECTING AND STERILIZING, has the following line with class 34: Processes and apparatus for preserving, disinfecting or sterilizing by drying only or drying combined with special ray treatment only are in class 34. Where in addition to the drying and/or special ray treatment steps or apparatus, there are additional steps or apparatus to perform additional operations for preserving, disinfecting or sterilizing, the patent is in class 21, except processes where the additional operation is the coating or impregnation of a base, when it is usually placed in class 8, BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS, if a textile base, or class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, if a non-textile base. For the line between classes 8 and 117, see note (6) to the definition of subclass 132.5 of class 8;

in note (3) cancel the reference to class 91, Coating, and substitute:

91—COATING, has apparatus there provided for even though involving drying and/or gas or vapor contact with solids. Class 91 also takes apparatus for treating the coated article or material for purposes other than drying and/or gas or vapor contact therewith for cooling, even though combined with the latter operations;

and add in note (3) the following:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, has processes there provided for even though involving drying and/or gas or vapor contact with solids except (class 34, subclass 7) coating to shield selected portions against drying or to retard the drying, either over the entire object or over selected areas. Class 117 also takes processes for treating the coated article or material for purposes other than drying and/or gas or vapor contact therewith for cooling even though combined with the latter operations. Class 117 also takes processes of drying coatings using oxidizing agents limited to materials other than air, oxygen or ozone and all chemical reactants other than oxidizing, class 34 taking processes of drying coatings even though special rays are used, or where an oxidizing agent is generically claimed or where limited to air, oxygen or ozone;

in subclass 1, note (5), cancel "8"; in subclass 2 add:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, appropriate subclasses, particularly subclass 142;

in subclass 7, note (1), change "91, Coating" to:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, particularly subclass 103;

and in subclass 9, note (9), change "91, Coating" to *117, Coating; Processes and Miscellaneous Products.*

In *class 36, Boots, Shoes and Leggings* (Division 11), subclass 68, add the following note:

Note.—See class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, for coated fabrics in general;

and in subclass 77 add the following note:

Note.—See class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, for coated fabrics in general.

In *class 41, Ornamentation* (Division 17), subclass 13, number the existing note (*1*) and add:

(2) Note.—See class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, subclass 8;

in subclass 17, add the following note:

(5) Note.—See class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, appropriate subclasses, particularly subclass 37 and indented subclasses, for surface ornamentation processes which are essentially coating processes;

in subclass 18, note (2), cancel the reference to class 91, Coating, and substitute:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, the subclasses specially providing for coating with metal;

in subclass 26, note (2), cancel the reference to class 91, Coating, and substitute:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, appropriate subclasses, particularly subclasses 8 and indented subclasses, 12 and indented subclasses, 25 and 37 and indented subclasses, for coating processes for producing decorative surfaces, and class 101, PRINTING, for the application of designs to surfaces by means of type, stencils, or planographic surfaces;

in subclass 29 cancel the last sentence of the definition and substitute:

Does not include novel methods of coating a surface such as would fall in class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS;

number the existing note (*1*) and add:

(2) Note.—See class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, subclasses 25 and 38, for coating processes which include masking to secure a decorative effect; see subclass 48, for masking to protect an entire surface from being coated during a coating process;

in subclass 33 add the following note:

(3) Note.—See class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, subclass 110, for coating with a film of material formed on a roller, e. g., by feeding plastic material to the nip of cooperating rolls, and which film is transferred to a base while in contact with the roller;

and in subclass 36 cancel the reference to class 91, Coating, and substitute:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, subclasses 9, 13 and 16 and indented subclasses, for processes of coating surfaces which include the application of fibers or particulate material whether or not the surface produced is decorative.

In *class 43, Fishing, Trapping and Vermin Destroying* (Division 2), subclass 114, in note (2) add:

167—MEDICINES, POISONS AND COSMETICS, subclass 48, for baits, and subclass 49, for adhesive compositions specialized for use in catching insects, including insect trapping adhesive bases, e. g., flypaper, which are distinguished solely by the adhesive composition.

In *class 44, Fuel and Igniting Devices* (Division 64), subclass 6, change the note to read:

Note.—For wood impregnated to preserve it, see class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, particularly subclasses 57 and indented subclasses, 108, 116, 117 and 147 and indented subclasses.

In *class 47, Plant Husbandry* (Division 1), subclass 57.5, cancel note (3) and substitute:

(3) Note.—See class 8, BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS, subclass 6.5, for processes of injecting wood with coloring material, and class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, particularly subclass 58, for processes of injecting wood with preservative material, when there is a claimed limitation to cut timber, or, if the claims are broad, the application to cut timber is disclosed.

In *class 49, Glass* (Division 15), main class definition, note (5), change "91, Coating" to *117, Coating; Processes and Miscellaneous Products.*

In *class 51, Abrading* (Division 58), subclass 293, note (3), change "91, Coating, subclass 68" to *117, Coating; Processes and Miscellaneous Products;* and in subclass 295 change the note to read:

Note.—For coating processes in general, see class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS.

In *class 57, Textiles, Spinning, Twisting and Twining* (Division 21), subclass 35, note (4), cancel the reference to class 21, Preserving, Disinfecting and Sterilizing, and change "91, Coating" to *117, Coating; Processes and Miscellaneous Products;* and in subclass 164, note (3), cancel the reference to class 21, Preserving, Disinfecting and Sterilizing; cancel the reference to class 91, Coating, and substitute:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS.

In *class 67, Illuminating Burners* (Division 30), subclass 100, note (2), change the reference to class 91 to read:

91—COATING, for coating or impregnating apparatus;

and add:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, for coating or impregnating processes.

In *class 68, Textiles, Fluid Treating Apparatus* (Division 27), main class definition, in the seventeenth paragraph cancel "21, Preserving, Disinfecting and Sterilizing" and substitute:

8—BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS, subclass 136.5;

in the eighteenth paragraph change "91, Coating" to *117, Coating; Processes and Miscellaneous Products;* and in subclass 213, note (2), cancel "particularly subclass 62.5."

In class 88, Optics (Division 7), subclass 73, note (6), and in subclass 105, note (5), change "91, Coating, subclass 69.1" to *117 Coating; Processes and Miscellaneous Products, subclass 35.*

In *class 91, Coating* (Divisions 38 and 46), cancel the main class definition and substitute:

This class embraces machines for applying and spreading coating material over various objects. The particular coating substance is immaterial to this class, as is also the object to which it is applied, except as indicated in the titles of the special subclasses. The machines are classified, wherever possible, on the structure of the spreading mechanism. Special machines are excluded from this class except in those cases where the coating operation is in the main capable with slight changes, principally in the proportions, of a more general use for coating. Combined machines are excluded from this class when the operations other than coating limit the machines to some other art.

Machines for coating parts or portions of the object with a view to an ornamentation of the object are also excluded. When, however, the mechanism is the same as that for spreading the coating material entirely over the object but employs a spreader too narrow to entirely cover the object with the coating material or a plurality of narrow spreaders to cover the object with a series of strips, such patents are included in this class in subclasses 12 and 12.01.

Machines specially adapted for coating with metal are classified in this class under the title "With metal". Machines which, while adapted for coating with metal, are also capable of general application in the coating art are classified in the proper general machine subclasses.

(1) Note.—See class 18, PLASTICS, for machines for applying a non-metal coating utilizing a mold or confining chamber for the coating material.

(2) Note.—See class 21, PRESERVING, DISINFECTING AND STERILIZING, subclass 63 and indented subclasses, for apparatus for impregnating wood.

(3) Note.—See class 22, METAL FOUNDING, for machines for applying metal coatings requiring the use of a mold; see subclass 88, for apparatus for coating or lining molds.

(4) Note.—See class 25, PLASTIC BLOCK AND EARTHENWARE APPARATUS, particularly subclass 38, for machines for the application of plastic linings or coatings to pipes other than by dipping or painting.

(5) Note.—See class 34, DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS, for drying and for gas or vapor contact with solids in general. When combined with a (class 91) coating operation, the machine is classified in this class (91).

(6) Note.—For apparatus for coating or impregnating strands combined with spinning, twisting or twining operations, see class 57, TEXTILES, SPINNING, TWISTING AND TWINING, appropriate subclasses.

(7) Note.—See class 68, TEXTILES, FLUID TREATING APPARATUS, appropriate subclasses, for machines for fluid treatment of textile material. For implements for moistening or steaming textile materials, see class 68, subclasses 221 and 222.

(8) Note.—Machines for coating metal combined with a significant metal working operation are classified in the appropriate metal working class.

(9) Note.—For cigar and cigarette making machines combined with means for applying coating material, usually adhesives, see class 131, TOBACCO, particularly subclasses 24, 29, 30, 35, 37, 61, 69, 71, 72, 76 and 88 and indented subclasses.

(10) Note.—See class 204, CHEMISTRY, ELECTRICAL AND WAVE ENERGY, for apparatus for applying electrolytic coatings as well as coating apparatus utilizing electrophoresis, electro-osmosis and cathode sputtering.

(11) Note.—For coating processes in general, see class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, particularly note (1) to the main class definition, for other main classes having coating processes therein;

and in subclasses 59.1, 59.2, 59.3, 59.4 and 59.8 in the definition cancel "and processes".

In *class 92, Paper Making and Fiber Liberation* (Division 56), subclass 68, change "91, Coating" to *117, Coating; Processes and Miscellaneous Products;* and in subclass 76, note (2), change "91, Coating" to *117, Coating; Processes and Miscellaneous Products.*

In *class 95, Photography* (Division 7), subclass 7, change "91, Coating, subclass 69" to:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, subclass 34;

in subclass 8, cancel note (3) and substitute:

(3) Note.—See class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, subclass 34, for processes of producing photo-sensitive coatings;

and in subclasses 89 and 90, in note (2) of each, in the reference to class 91, Coating, change "69" to *10.*

In *class 99, Foods and Beverages* (Division 63), main class definition, in note (10), before "methods" insert: class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, for general coating;

in subclass 161, note (2), change "91, Coating" to *117, Coating; Processes and Miscellaneous Products;* and in subclass 166, in the note cancel "apparatus and" and change "91, Coating" to *117, Coating; Processes and Miscellaneous Products.*

In *class 101, Printing* (Division 17), main class definition, note (4), change the reference to class 91, Coating, to read:

91—COATING, especially subclass 16, for apparatus combinations of coating and printing;

and add the following:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, subclass 12 and indented subclasses, for combined processes of coating and printing where no significant manipulative printing step is claimed, and subclass 38, for processes of printing broadly with a particular coating composition.

In *class 106, Compositions, Coating or Plastic* (Divisions 38 and 64), main class definition, note (4), in the reference to class 91, Coating, first line, change "91, Coating" to *117, Coating; Processes and Miscellaneous Products;* and throughout the paragraph change "91" to *117;*

in subclass 1, change note (1) to read:

(1) Note.—See class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, particularly subclasses 130 and 160, for processes of coating with metal;

in subclass 15 cancel note (2) and substitute:

(2) Note.—See class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, appropriate subclasses, particularly subclass 136 and indented subclasses, for processes of fireproofing by coating or impregnating;

in subclass 34, in the note change "3" to *6.5;* in subclass 48, note (2), cancel "91, Coating, subclasses 72 and 73" and substitute:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, particularly subclasses 23, 40, 53, 70, 103, 125 and 129;

and in subclass 308 cancel note (2) and substitute:

(2) Note.—See class 23, CHEMISTRY, appropriate subclasses, for coated inorganic compounds, wherein the coating is for the purpose of preservation;

and in note (3) cancel "91, Coating, subclass 68 and indented subclasses" and substitute:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, particularly subclasses 27 and 100.

In *class 107, Bread, Pastry and Confection Making* (Division 20), main class definition, in the next to the last paragraph, before "confectionery" insert *apparatus for;* and change the last paragraph to read:

Manipulative processes for coating pastry and confections are in this class (107). Processes which claim broadly the coating of pastry or confectionery with a particular food material are classified in class 99, FOODS AND BEVERAGES. For coating processes of general application, see class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS.

In *class 108, Roofs* (Division 33), subclass 7, cancel the reference to class 91, Coating, and substitute:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, appropriate subclasses, particularly subclasses 5, 9, 10, 30, 32, 92 and 168.

In *class 131, Tobacco* (Division 2), main class definition, note (10), cancel "apparatus and adhesive appliers per se" and substitute *and adhesive applying machines;* in subclass 12, note (3), cancel "processes and" and add:

(4) Note.—For processes for coating cylindrical articles in general, see class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, appropriate subclasses, particularly subclass 94 and indented subclasses;

in subclass 15, note (2), change "91, Coating, particularly subclass 68", to:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, appropriate subclasses, particularly subclass 152 and indented subclasses;

in subclass 35, note (3), change "91, Coating" to *117, Coating; Processes and Miscellaneous Products;* and in subclass 121 cancel note (1) and substitute:

(1) Note.—For processes of preserving, disinfecting and sterilizing plants in general, see class 21, PRESERVING, DISINFECTING AND STERILIZING.

In *class 136, Batteries* (Division 60), subclass 19, change note (2) to read:

(2) Note.—See class 91, COATING, for coating apparatus of general application;

and add the following note:

(3) Note.—See class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, for coating processes of general application, and see note II to the main class definition of said class (117) for the classification of coated articles and bases;

and in subclass 150 cancel "21, Preserving, Disinfecting and Sterilizing, subclasses 7–52" and substitute:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, particularly subclasses 57 and indented subclasses, 108, 116, 117 and 147 and indented subclasses.

In *class 138, Pipes and Tubular Conduits* (Division 52), main class definition, note (31), change "91, Coating, subclass 68 and indented subclasses" to *117, Coating; Processes and Miscellaneous Products, particularly subclass 94 and indented subclasses;* and in subclass 68, note (1), change "91, Coating, subclass 68 and indented subclasses" to:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, particularly subclass 94 and indented subclasses.

In *class 144, Woodworking* (Division 29), subclass 280, in the note add *apparatus* after "coating"; and in subclass 309 add the following note:

Note.—See class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, for processes of coating or impregnating wood.

In *class 148, Metal Treatment* (Division 3), subclass 6, cancel note (1) and substitute:

(1) Note.—See class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, appropriate subclasses, particularly subclasses 49 and indented subclasses, 74, 75, 79, 89, 97, 99, 114 and 127 and indented subclasses, for coating processes applied to metal where the metal base does not react to supply an ingredient of the coating;

in subclass 8, note (2), change "91, Coating, subclass 68 and indented subclasses" to:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, subclass 49 and indented subclasses;

and in subclass 15 cancel the note; and in subclass 24, in the note, cancel "91, Coating, subclasses indented under 'With metal'" and substitute:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, particularly subclasses 22, 31, 50, 51, 71, 105, 107, 114 and 131.

In *class 154, Laminated Fabric and Analogous Manufactures* (Division 61), subclass 2.21, note (12), change the reference to class 91, Coating, to read *91, Coating, particularly subclass 18;* add:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, particularly subclasses 49 and indented subclasses, 115 and 128;

and in the last sentence after "91" insert *117.*

In *class 159, Concentrating Evaporators* (Division 46), subclass 5, in the reference to class 91, Coating, cancel "and processes."

In *class 167, Medicines, Poisons and Cosmetics* (Division 63), subclass 37, add the following notes:

(3) Note.—See class 299, FLUID SPRINKLING, SPRAYING AND DIFFUSING, subclass 20 and indented subclasses, for slow diffusers per se or for slow diffusers combined with holders, when the slow diffuser has structural features and is not distinguished solely by a composition of matter.

(4) Note.—See class 312, SUPPORTS, CABINET STRUCTURES, subclass 31 and indented subclasses, and the notes thereto, for containers combined with means to treat contained material with a gas or vapor where the means may be a slow diffuser or absorber;

in subclass 38.5, note (4), cancel "and significantly claimed processes"; and add the following note:

(5) Note.—See class 8, BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS, subclass 136.5, for processes of preserving textiles, e. g., mothproofing and mildewproofing, and class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, for processes of preserving other materials by a coating or impregnating operation;

and in subclass 38.7 cancel note (2) and substitute:

(2) Note.—See class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, appropriate subclasses, particularly subclasses 57 and indented subclasses, 108, 116, 117 and 149, for processes of applying phenolic preserving agents to wood.

In *class 174, Electricity, Conductors and Insulators* (Division 65), main class definition, cancel note (2) and substitute:

(2) Note.—Class 91, COATING, takes apparatus for coating conductors;

and add the following note:

(3.1) Note.—Class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, takes processes of coating conductors and also takes patents which claim a coated wire or base broadly. Where the only product claims are limited to use as electrical conductors, the patent belongs in class 174 even though there may be also present a coating process claim.

In *class 204, Chemistry, Electrical and Wave Energy* (Division 56), main class definition, note (8), change the first paragraph to read:

See class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, for processes in general for applying and spreading coating materials over objects, and class 91, COATING, for apparatus specialized therefor, other than those involving the formation of a coating by electrolysis, electrophoresis, electro-osmosis, or cathode sputtering, for which see this class (204);

in the second paragraph, second sentence, change "91", first occurrence, to *117, subclass 47 and indented subclasses;* and change "91", second occurrence, to *117;* in subclass 4, note (2), change "91, Coating" to *117, Coating; Processes and Miscellaneous Products;* in subclass 19, note (3), change "91, Coating, subclass 69.1" to:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, subclass 35;

and in subclasses 20 and 30, in note (2) of each, change "91, Coating" to *117, Coating; Processes and Miscellaneous Products.*

In *class 207, Plastic Metal Working* (Division 13), main class definition, note (2), before the reference to class 205, Metal Drawing, insert *117, Coating; Processes and Miscellaneous Products.*

In *class 209, Classifying, Separating and Assorting Solids* (Division 25), subclass 47, in note (2) add:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, appropriate subclasses;

in subclass 48 in note (2) add:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, appropriate subclasses;

and in subclass 51, in note (2) add:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, appropriate subclasses.

In *class 220, Metallic Receptacles* (Division 40), subclass 64, number the existing note *(1)* and add:

(2) Note.—See class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, for coating processes and coated bases not defined as receptacles.

In *class 223, Apparel Apparatus* (Division 24), main class definition, at the end of note (10), add:

and class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS;

in subclass 2, note (3), and subclass 3, note (2), add:

and class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS;

and in subclass 10, note (2), cancel "and processes" and add:

(3) Note.—For coating processes, see class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, appropriate subclasses.

In *class 229, Paper Receptacles* (Division 40), subclass 3.1, cancel notes (1) and (3) and substitute:

(1) Note.—For coating compositions per se, see class 106, COMPOSITIONS, COATING OR PLASTIC, appropriate subclasses, and class 260, CHEMISTRY, CARBON COMPOUNDS, subclasses 2 and 709 and their indented subclasses.

(3) Note.—See class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, for coating processes and coated paper distinguished solely by a coating, particularly subclasses 11, 15, 28, 60, 76, 80, 83, 86, 90, 136 and 152 and indented subclasses.

In *class 244, Aeronautics* (Division 22), main class definition, note (2), change "91, Coating" to *117, Coating; Processes and Miscellaneous Products;* and in subclass 128, note (1), change "91, Coating" to *117, Coating; Processes and Miscellaneous Products.*

In *class 250, Radiant Energy* (Division 54), subclass 49.5, note (6), in the reference to Class 21, Preserving, Disinfecting and Sterilizing, cancel "8".

In *class 252, Compositions* (Divisions 59 and 64), main class definition, note (6), in the reference to class 91 change "91, Coating" to *117, Coating; Processes and Miscellaneous Products;* in subclass 8.1 add the following note:

(3) Note.—See class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, subclass 136 and indented subclasses, for processes of fireproofing by coating or impregnating;

and in subclass 381, note (2), add:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, particularly subclass 100, for processes of coating granular material.

In *class 260, Chemistry, Carbon Compounds* (Division 50), subclass 311, note (2), cancel "91, Coating, subclasses 68 and 70" and substitute:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, particularly subclasses 77 and indented subclasses, 106, 118, 133, 146, 148, 155, 162 and 163.

In *class 274, Sound Recording and Reproducing* (Division 5), subclass 41, in the note cancel "91, Coating, subclasses 68 and 69" and substitute:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, appropriate subclasses.

In *class 282, Manifolding* (Division 53), subclass 28, cancel the note and substitute:

Search classes:

91—COATING, subclass 54.5, for pads for supplying ink, usually to hand stamps.

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, subclass 36, for the preparation of carbon or transfer paper by coating.

In *class 283, Printed Matter* (Division 53), subclass 8, number the existing note (1) and add:

(2) Note.—See class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, subclass 1, for coated or impregnated bases having fraud preventing or detecting characteristics where there is no significant structure apart from the coating, such as, for example, "safety paper", as well as the processes for preparing the same.

In *class 288, Joint Packings* (Division 52), main class definition, note (1), paragraph 7, cancel "91, Coating, subclass 68 and indented subclasses" and substitute:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, appropriate subclasses.

In *class 308, Machine Elements, Bearings and Guides* (Division 45), subclass 241, note (2), cancel "91, Coating, subclass 68 and indented subclasses" and substitute:

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, appropriate subclasses.

In Division 38, establish class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, with the following subclasses and definitions, the patents contained therein having been taken for the most part from class 21, Preserving, Disinfecting and Sterilizing, subclasses 3 to 6.5, 8, 10, 12, 13 and 15 to 52, abolished in this order; class 91, Coating, subclasses 67.9, 67.95, 68 to 69.1 and 70 to 73, abolished in this order, and from various subclasses in class 41, Ornamentation.

Note.—Copies of the list of subclass titles, and of the definitions, may be seen in the Search Room and in the Classification Division pending publication.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 12, 1942

[VOL. 538. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 2

RECEPTACLES

Ser. No. 450,633. SYSTEM PLASTICS COMPANY, Los Angeles, Calif. Filed Jan. 31, 1942.

Park-it

FOR PORTABLE PLASTIC HOLDERS FOR COLLAPSIBLE CONTAINERS OR TUBES.

Claims use since Aug. 16, 1941.

Ser. No. 450,877. GRAYS HARBOR VENEER CORPORATION, Hoquiam, Wash. Filed Feb. 10, 1942.

GH CORP.

FOR WOODEN BOXES, CRATES, BASKETS, AND TUBS USED AS FOOD CONTAINERS.

Claims use since Feb. 28, 1930.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 451,358. COAST ENVELOPE & LEATHER PRODUCTS CO., Los Angeles, Calif. Filed Mar. 3, 1942.

PAMPAS PIG

No claim is made to the word "Pig" apart from the mark.

FOR LEATHER GOODS—NAMELY, BILLFOLDS, EMPTY COMPACTS, KEY CASES, COAT CASES, AND SMALL PURSES.

Claims use since Feb. 11, 1942.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 441,557. CAMEO CORPORATION, Chicago, Ill. Filed Mar. 14, 1941.

CAMEO CORPORATION CLEANSER

The word "Cleanser" is disclaimed apart from the mark.

FOR PREPARATION USED AS A GENERAL HOUSEHOLD CLEANSER.

Claims use since Feb. 19, 1941.

Ser. No. 441,558. CAMEO CORPORATION, Chicago, Ill. Filed Mar. 14, 1941.



FOR PREPARATION USED AS A GENERAL HOUSEHOLD CLEANSER.

Claims use since Feb. 19, 1941.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 439,507. UNITED CIGAR-WHELAN STORES CORPORATION, New York, N. Y. Filed Jan. 8, 1941. Applicant disclaims the word "Rub."

VOL-A-RUB

FOR EXTERNAL APPLICATION FOR THE RELIEF OF DISCOMFORTS DUE TO COMMON COLDS.
Claims use since Dec. 20, 1939.

Ser. No. 446,493. GUS H. FRENCH, doing business as French Laboratories, Minneapolis, Minn. Filed Aug. 23, 1941.



FOR LAXATIVE PILLS.
Claims use since June 24, 1941.

Ser. No. 450,838. SHARP & DOHME, INCORPORATED, Philadelphia, Pa. Filed Feb. 7, 1942.

DIGITOL

FOR EXTRACTS OF DIGITALIS AND HYDRO-ALCOHOLIC EXTRACT OF DIGITALIS AND STANDARDIZED EXTRACTS OF DIGITALIS AND PREPARATIONS CONTAINING OR MADE FROM DIGITALIS LEAVES IN ANY FORM AND PRODUCTS CONTAINING ANY EXTRACTS FROM DIGITALIS LEAVES OR PARTS THEREOF, AND PREPARATIONS CONTAINING DIGITALIS IN ANY FORM, AND PREPARATIONS USED FOR THE SAME PURPOSES AS DIGITALIS AND AS DIGITALIS LEAVES IN ANY FORM OR AS THE EXTRACTS OF PRODUCTS PREPARED FROM THEM, AND TINCTURES OF DIGITALIS AND TABLETS OF SUCH DIGITALIS PREPARATIONS.
Claims use since 1900 on tincture of digitalis; since Dec. 4, 1941, on extract and tablet forms of digitalis.

Ser. No. 450,952. CHAPPEL BROS., INC., Rockford, Ill. Filed Feb. 14, 1942.

PROHEMATIN

FOR PARENTERAL LIVER EXTRACT FOR MEDICINAL PURPOSES.
Claims use since Nov. 14, 1938.

Ser. No. 451,317. S. PFEIFFER MFG. CO., St. Louis, Mo. Filed Feb. 28, 1942.

Annays

FOR OINTMENT AND A LOTION FOR PRICKLY HEAT, POISON OAK AND IVY, BITES AND STINGS OF INSECTS, COLD AND FEVER SORES AND ATHLETE'S FOOT, CHAFING, CHAPPING, SUNBURN, MINOR BURNS AND SCALDS, NETTLE RASH, BRUISES, MINOR SKIN IRRITATIONS, AND FOR TEMPORARY RELIEF OF THE BURNING AND ITCHING ASSOCIATED WITH ECZEMA, AND FOR SOFTENING THE CRUSTS OF ECZEMA.
Claims use since Dec. 12, 1941.

Ser. No. 451,407. S. BONAT & BRO., New York, N. Y. Filed Mar. 5, 1942.



The words "Scalp Treatment Shampoo" are disclaimed except in combination with the word "Habitant."
FOR SHAMPOOS.
Claims use since Sept. 8, 1941.

Ser. No. 451,569. MARION FRANCIS KELLY, Richmond, Ind. Filed Mar. 12, 1942.



MOTOR VITAMIN

THE ABC OF MOTOR PERFORMANCE

Applicant disclaims the words "Motor" and "Motor Performance" apart from the mark.
FOR LIQUID SOLVENT PARTICULARLY ADAPTED FOR INCREASING MOTOR PERFORMANCE.
Claims use since Dec. 1, 1941.

Ser. No. 451,699. THE VIAVI COMPANY, San Francisco, Calif. Filed Mar. 17, 1942.

LAMINETS

FOR CONCENTRATED VITAMINS USED AS A FOOD SUPPLEMENT AND HAVING USE AS A THERAPEUTIC VITAMIN PREPARATION PER SE.
Claims use since Feb. 12, 1942.

Ser. No. 451,786. THE TANNIN CORPORATION, New York, N. Y. Filed Mar. 20, 1942.

DIVITAN

FOR TANNIN EXTRACT HAVING A GENERAL USE IN THE INDUSTRIAL ARTS.
Claims use since Feb. 2, 1942.

Ser. No. 451,795. CARTER PRODUCTS, INC., New York, N. Y. Filed Mar. 21, 1942.

ADIOS

FOR ANTI-PERSPIRANT AND PERSPIRATION DEODORANT.
Claims use since Mar. 10, 1942.

Ser. No. 451,818. GOURIELLI, INC., New York, N. Y. Filed Mar. 21, 1942.

BOW TIE

FOR PERFUMES, TOILET WATER, AND COLOGNE.
Claims use since Mar. 10, 1942.

Ser. No. 451,910. JOHNSON & JOHNSON, New Brunswick, N. J. Filed Mar. 26, 1942.

Johnson's

The applicant is the owner of T. M. 98,057 comprising the name "Johnson's" and effected under the ten-year proviso.
FOR BABY CREAM.
Claims use since Jan. 1, 1925.

Ser. No. 451,922. CHAS. WULLING, doing business as Wultex Products, Clara City, Minn. Filed Mar. 26, 1942.

WULTEX MIXTURE

The word "Mixture" is disclaimed apart from the mark.
FOR ANTISEPTIC FOR TREATING DRINKING WATER FOR POULTRY.
Claims use since November, 1934.

Ser. No. 451,962. CHICAGO PHARMACAL COMPANY, Chicago, Ill. Filed Mar. 28, 1942.

CHIMEDIC

FOR PREPARATIONS FOR THE TREATMENT OF DISEASES OF THE SKIN, THE TREATMENT OF ANTI-ARTHRITIC AND ANTI-RHEUMATIC CONDITIONS, USE IN CONTROLLING HYPERTENSION, A PHARMACEUTICAL PREPARATION FOR THE PROMOTION OF URINARY ANTISEPSIS AND SEDATION IN THE TREATMENT OF GENITO-URINARY INFECTION, AND A SEDATIVE USED IN THE TREATMENT OF PERTUSSIS.
Claims use since Jan. 27, 1942.

CLASS 10

FERTILIZERS

Ser. No. 445,212. PLANTERS COTTON OIL & FERTILIZER CO., Rocky Mount, N. C. Filed July 9, 1941.

PLANTERS "Controlled" FERTILIZERS

No claim is made to the word "Planters" and "Fertilizers" apart from the mark.
FOR FERTILIZERS.
Claims use since Mar. 1, 1934.

CLASS 15

OILS AND GREASES

Ser. No. 441,636. THE PURE OIL COMPANY, Chicago, Ill. Filed Mar. 17, 1941.

POCOTOL

FOR LUBRICATING OIL.
Claims use since Aug. 1, 1931.

Ser. No. 441,638. THE PURE OIL COMPANY, Chicago, Ill. Filed Mar. 17, 1941.

PUROSOL

FOR SOLUBLE OIL FOR USE AS CUTTING OIL.
Claims use since June 1, 1930.

Ser. No. 450,503. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa. Filed Jan. 27, 1942.

ULTRAX

FOR PETROLEUM WAXES.
Claims use since July 9, 1934.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 442,032. EVEREL PROPELLER CORPORATION, Baltimore, Md. Filed Mar. 28, 1941.

EVEREL PROPELLER CORPORATION
AUTOMATIC CONSTANT SPEED PROPELLER

Applicant disclaims the words "Automatic Constant Speed Propeller" apart from the mark.
FOR AIRPLANE PROPELLERS.
Claims use since Dec. 28, 1940.

Ser. No. 444,067. BENDIX-WESTINGHOUSE AUTOMOTIVE AIR BRAKE COMPANY, Pittsburgh, Pa. Filed May 31, 1941.

BENDIX-WESTINGHOUSE
AIR BRAKES

No claim is made to the words "Air Brakes" apart from the mark.
FOR AUTOMOTIVE VEHICLE BRAKING UNITS COMPRISING BRAKE CHAMBERS OF THE DIFFERENTIAL AIR PRESSURE TYPE, BRAKE CONTROL VALVES, AIR COMPRESSORS, AIR PRESSURE RESERVOIRS, AND BRAKE SLACK ADJUSTERS.
Claims use since Nov. 6, 1940.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 447,778. ATLAS SUPPLY COMPANY, Newark, N. J. Filed Oct. 14, 1941.

ATLAS
SAFETY-FAST

Applicant disclaims the words "Safety-Fast" apart from the mark.
FOR STORAGE BATTERY CHARGERS.
Claims use since June 28, 1941.

Ser. No. 449,007. GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed Nov. 28, 1941.

GENERAL ELECTRIC

FOR GASEOUS ELECTRIC DISCHARGE LAMPS; ELECTRIC MERCURY VAPOR LAMPS; ELECTRIC SODIUM LAMPS; ELECTRIC CATHODE GLOW LAMPS; ELECTRIC BLANKETS; TELEVISION APPARATUS AND PARTS THEREOF INCLUDING TELEVISION SENDING SETS AND TELEVISION RECEIVING SETS; ELECTRIC DISH WASHERS AND ELECTRIC SINKS; PERMANENT MAGNETS; AND ELECTRICALLY HEATED WEARING APPAREL, NAMELY, SUITS, SHOES, GLOVES, AND UNDERCLOTHES.
Claims use on gaseous discharge lamps since 1929; mercury vapor lamps and cathode glow lamps since 1930; sodium lamps since 1934; electric blankets since 1936; television apparatus and parts thereof, including television sending sets and television receiving sets, and electric dish washers and electric sinks, since 1939; permanent magnets since 1940; and electrically heated wearing apparel, namely, suits, shoes, gloves and underclothes, since 1940.

Ser. No. 450,558. THE WOLVERINE BATTERY COMPANY, Grand Rapids, Mich. Filed Jan. 28, 1942.

WOLVERINE

FOR WET OR DRY CELL STORAGE BATTERIES.
Claims use since Nov. 1, 1941.

Ser. No. 450,889. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa. Filed Feb. 10, 1942.

Pacemaker

FOR ELECTRIC FANS.
Claims use since January, 1939.

Ser. No. 450,969. LA BELLE SILVER CO., INC., Glendale, N. Y. Filed Feb. 14, 1942.

DAND-DEE

FOR ELECTRICAL COOKING DEVICES—NAMELY, ELECTRIC BROILER OVENS.
Claims use since Sept. 30, 1941.

Ser. No. 451,409. CHASE BRASS & COPPER CO. INCORPORATED, Waterbury, Conn. Filed Mar. 5, 1942.

CHASE

FOR COPPER ANODES, COPPER ELECTRICAL BUS BARS, ELECTRIC TABLE AND FLOOR LAMPS, COPPER TUBULAR ELECTRICAL BUS (ROUND), FLASHLIGHTS, ELECTRIC LIGHTING CEILING AND WALL FIXTURES AND PARTS THEREOF, BATTERY-OPERATED PORTABLE ELECTRIC LANTERNS, COPPER AND COPPER ALLOY CONDUIT FOR HOUSING ELECTRIC WIRES, ELECTRICAL FOOD WARMERS, COPPER TUBULAR ELECTRICAL BUS (SQUARE), ELECTRICAL HOT PLATES, ELECTRICAL TEA KETTLES, ELECTRICAL COFFEE MAKERS, ELECTRICAL COOKING DISHES, COPPER ELECTRICAL GROUNDING RODS, AND MAGNET WIRE.
Claims use on copper anodes since January 15, 1930; copper electrical bus bars since January 17, 1930; electric table and floor lamps since November 3, 1931; copper tubular electrical bus (round) since December 2, 1931; flashlights since December 4, 1931; electric lighting ceiling and wall fixtures and parts thereof since February 8, 1932; battery-operated portable electric lanterns since November 22, 1932; copper and copper alloy conduit for housing electric wires since October 31, 1933; electrical food warmers since November 21, 1933; copper tubular electrical bus (square) since March 1, 1937; electrical hot plates since April 12, 1937; electrical tea kettles since April 12, 1937; electrical coffee makers since October 8, 1937; electrical cooking dishes since October 12, 1937; copper electrical grounding rods since July 29, 1938; and magnet wire since December 3, 1940.

Ser. No. 451,430. WILLARD STORAGE BATTERY COMPANY, Cleveland, Ohio. Filed Mar. 5, 1942.



FOR STORAGE BATTERIES AND PARTS THEREOF.
Claims use since June, 1940.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 441,158. FRANK S. DELLEBMAN, doing business as The Park Manufacturing Company, Cincinnati, Ohio. Filed Mar. 3, 1941.

JAKE'S

BAIT

Applicant disclaims the word "Bait" except as shown.
FOR ARTIFICIAL FISHING LURES.
Claims use since June 30, 1936.

Ser. No. 451,877. HAROLD A. RICE, New York, N. Y. Filed Mar. 24, 1942.

HAR-O-BANK

No claim is made to the word "Bank" apart from the mark.
FOR TABLE GAME CONSISTING OF A GAME BOARD HAVING ROTATABLE DIALS AND PLAYED WITH A SPINNER DEVICE AND A SCORING PANEL AND FOR THE PARTS THEREOF SEPARATELY.
Claims use since Feb. 26, 1942.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 450,065. THE CINCINNATI BALL CRANK CO., Cincinnati, Ohio. Filed Jan. 8, 1942.



FOR LUBRICATION EQUIPMENT—NAMELY, PORTABLE AND STATIONARY BARREL PUMPS, HAND GREASE GUNS, OIL DRAINS, GREASE AND LUBRICANT HOSE ROLLS.
Claims use since Jan. 5, 1942.

Ser. No. 451,302. GRUENDLER CRUSHER & PULVERIZER CO., St. Louis, Mo. Filed Feb. 28, 1942.

GRUENDLER

FOR DISINTEGRATORS, CRUSHERS, PULVERIZERS, SHREDDERS, REFINERS, BREAKERS, AND GRANULATORS.
Claims use since 1887.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 445,967. SUPERVIS BIFOCAL CO., INC., Seattle, Wash. Filed Aug. 4, 1941.

FUL-SITE
SUPERVIS BIFOCAL CO., INC.

No claim is made to the word "Ful-Site" apart from the mark.
FOR BIFOCAL LENSES.
Claims use since Jan. 1, 1941.

Ser. No. 450,870. TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y. Filed Feb. 9, 1942.

Cleanliner

FOR THERMOMETERS.
Claims use since Oct. 1, 1940.

Ser. No. 451,202. FISHER SCIENTIFIC COMPANY, Pittsburgh, Pa. Filed Feb. 25, 1942.

PERMAS

FOR ANALYTICAL BALANCE WEIGHTS.
Claims use since Feb. 15, 1942.

Ser. No. 451,266. FISHER SCIENTIFIC COMPANY, Pittsburgh, Pa. Filed Feb. 27, 1942.

VOLUSTAT

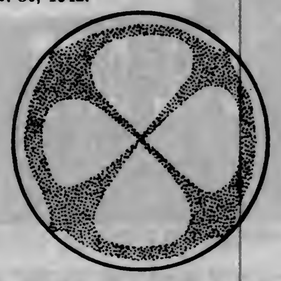
FOR ELECTRICALLY-OPERATED INSTRUMENT WHICH AUTOMATICALLY DISPENSES DEFINITE VOLUMES OF LIQUIDS.
Claims use since Feb. 23, 1942.

Ser. No. 451,706. JACQUES BOLSEY, New York, N. Y. Filed Mar. 18, 1942.

DUB-SIXTEEN

The word "Sixteen" is disclaimed apart from the mark.
FOR CINEMATOGRAPHIC AND PHOTOGRAPHIC APPARATUS AND ACCESSORIES THERETO—NAMELY, PHOTOGRAPHIC CAMERAS AND PROJECTORS, MOTION PICTURE CAMERAS AND PROJECTORS, LENSES, FILTERS, FILTER HOLDERS, FADING DEVICES, DEVICES FOR DELAYED EXPOSURE, SHUTTERS, PHOTOGRAPHIC ENLARGERS, TITLING DEVICES, SPLICERS, FILM VIEWERS, FILMS, SLIDES, STEREOSCOPIC ATTACHMENTS, FILM EDITING DEVICES, FILM WINDERS, PROJECTION SCREENS, EXPOSURE METERS, FILM PRINTING AND DEVELOPING APPARATUS, DEVELOPING TANKS, FILM MAGAZINES, TRIPODS, AND TRIPOD HEADS.
Claims use since Feb. 28, 1942.

Ser. No. 452,031. BRUCE R. VENT, Michigan City, Ind. Filed Mar. 30, 1942.



FOR TOUGHENED OPTICAL GLASS SUCH AS TOUGHENED OPHTHALMIC LENSES.
Claims use since Mar. 19, 1942.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 446,350. BERGER JEWELRY MFG. CO., St. Louis, Mo. Filed Aug. 19, 1941.



No claim is made to the word "Fashion" apart from the mark.
FOR JEWELRY, FOR PERSONAL WEAR AND ADORNMENT, NOT INCLUDING WATCHES.
Claims use since July 24, 1941.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 451,416. THE MARLEY COMPANY, INC., Kansas City, Kans. Filed Mar. 5, 1942.

"PRESITE"

FOR LIQUID COOLING TOWERS AND PARTS THEREOF.
Claims use since Feb. 27, 1942.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 451,031. THE CLEVELAND CO-OPERATIVE STOVE COMPANY, Cleveland, Ohio. Filed Feb. 17, 1942.



FOR GAS COOKING RANGES.
Claims use since January, 1941.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 449,661. BEGA BROTHERS PRODUCTS CORP., New York, N. Y. Filed Dec. 22, 1941.

B

FOR SEWING MACHINE BELTS, MOTOR BELTS MADE OF LEATHER, FABRIC, RUBBER, ETC.
Claims use since Mar. 27, 1941.

CLASS 37

PAPER AND STATIONERY

Ser. No. 446,126. CHECKS, INCORPORATED, Minneapolis, Minn. Filed Aug. 11, 1941.

Bondified

FOR PRINTED MATTER—NAMELY, MONEY ORDER BLANK FORMS, PAYOR'S RECEIPT FORMS, COLLECTOR'S RECORD FORMS, AGENT'S RECORD FORMS, POST CARD DRAFT FORMS, MONEY ORDER FORMS, REMITTER'S RECEIPT BLANK FORMS, CHECK FORMS OR BLANKS, TRAVELER'S BLANK CHECK FORMS, CONTRACT BLANK FORMS, INVOICE BLANK FORMS, AND INSTRUCTION SHEET PRINTED BLANK FORMS.
Claims use since June, 1939.

Ser. No. 446,127. CHECKS, INCORPORATED, Minneapolis, Minn. Filed Aug. 11, 1941.



The words "Post Card Check" are disclaimed apart from the mark.
FOR PRINTED MATTER—NAMELY, MONEY ORDER BLANK FORMS, PAYOR'S RECEIPT FORMS, COLLECTOR'S RECORD FORMS, AGENT'S RECORD FORMS, POST CARD DRAFT FORMS, MONEY ORDER FORMS, REMITTER'S RECEIPT BLANK FORMS, CHECK FORMS OR BLANKS, TRAVELER'S BLANK CHECK FORMS, CONTRACT BLANK FORMS, INVOICE BLANK FORMS, AND INSTRUCTION SHEET PRINTED BLANK FORMS.
Claims use since June, 1939.

Ser. No. 448,485. THE STANDARD REGISTER COMPANY, Dayton, Ohio. Filed Nov. 8, 1941.

STANGUARD

FOR WRITING PAPER, BLANK CHECKS AND BUSINESS FORMS.
Claims use since May 6, 1941.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 433,732. DALE CARNEGIE COURSES CORPORATION, New York, N. Y. Filed July 6, 1940.

Dale Carnegie Training

No claim is made to the word "Training" apart from the mark. The name "Dale Carnegie" is a facsimile signature of Dale Carnegie, president of applicant corporation.
FOR PERIODICAL PUBLICATIONS, PRINTED BOOKS, AND BULLETINS ISSUED AND SOLD AT IRREGULAR INTERVALS.
Claims use since Mar. 6, 1940.

Ser. No. 445,183. CHRISTIAN A. VOLF, New York, N. Y. Filed July 8, 1941.

I Don't Believe It

FOR ARTICLES, ESPECIALLY ILLUSTRATED ARTICLES AND PICTURE STRIPS PUBLISHED IN NEWSPAPERS, MAGAZINES AND BOOKS.
Claims use since March, 1941.

Ser. No. 448,825. MAX C. GAINES, New York, N. Y. Filed Nov. 22, 1941.

CAVALCADE COMICS

Applicant disclaims the word "Comics" apart from the mark.
FOR MAGAZINE PUBLISHED PERIODICALLY.
Claims use since Nov. 5, 1941.

Ser. No. 448,827. MAX C. GAINES, New York, N. Y. Filed Nov. 22, 1941.

COMIC CAVALCADE

The word "Comic" is disclaimed apart from the mark.
FOR MAGAZINE PUBLISHED PERIODICALLY.
Claims use since Nov. 5, 1941.

Ser. No. 449,451. EATON MANUFACTURING COMPANY, Detroit, Mich. Filed Dec. 13, 1941.

WIL-RICH FORUM

FOR ENGINEERING BULLETINS.
Claims use since July, 1941.

Ser. No. 449,869. FRANCIS I. DU PONT & CO. AND CHISHOLM & CHAPMAN, New York, N. Y. Filed Dec. 26, 1941. Under act of Feb. 20, 1905, as amended June 10, 1938.

Vigilance Service

Applicant disclaims the word "Service" apart from the mark.

FOR DAILY FINANCIAL NEWS AND STATISTICAL LETTERS.

Claims use since May 1, 1940.

Ser. No. 450,347. DENT SMITH, doing business as The Encore Press, Hoboken, N. J. Filed Jan. 20, 1942.

Encore

FOR MAGAZINE.

Claims use since Jan. 9, 1942.

Ser. No. 450,795. HAL FORREST, Palm Springs, Calif. Filed Feb. 6, 1942.

FRONT PAGE STANLEY

Applicant disclaims the word "Stanley" apart from the mark.

FOR COMIC SERIES PUBLICATION.

Claims use since Jan. 30, 1942.

CLASS 39

CLOTHING

Ser. No. 428,382. THE EDUCATOR SHOE CORPORATION OF AMERICA, New York, N. Y. Filed Feb. 9, 1940.



The words "Bent Bones That Were Bent By Defective Shoes," "Straight Bones That Grew Straight In" and "Shoes" and human feet representation are disclaimed except in conjunction with the trade-mark "Educator."

FOR SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS OF LEATHER, FABRIC, AND RUBBER.

Claims use since 1928.

Ser. No. 447,209. KAYLON, INC., New York, N. Y. Filed Sept. 20, 1941.

Jerries

FOR WOMEN'S PAJAMAS.

Claims use since Dec. 15, 1935.

Ser. No. 448,498. LEON CZARLINSKY, doing business as Bettilou Sportswear Co., Kansas City, Mo. Filed Nov. 10, 1941.



The picture is fanciful. The drawing is lined for red and blue. The word "Original" is disclaimed except as shown.

FOR WOMEN'S SLACKS, SKIRTS, DRESSES, BLOUSES, AND SUITS.

Claims use since Oct. 4, 1941.

Ser. No. 449,777. THE PARENTS' INSTITUTE, INC., New York, N. Y. Filed Dec. 26, 1941.



The word "Duds" is disclaimed apart from the mark.

FOR LADIES', MISSES', AND CHILDREN'S DRESSES, COATS, AND HATS.

Claims use since Dec. 4, 1941.

Ser. No. 449,870. SWAN SHOE COMPANY, INC., Baltimore, Md. Filed Dec. 30, 1941.

PLAY-GAYS

The word "Play" is disclaimed apart from the mark.

FOR PLAY SHOES MADE OF A COMBINATION OF LEATHER AND FABRIC.

Claims use since Jan. 1, 1941.

Ser. No. 450,563. CURTIS-STEPHENS-EMBRY CO., Reading, Pa. Filed Jan. 29, 1942.

Miss Lieutenant

FOR WOMEN'S AND MISSES' SHOES MADE OF COMBINATIONS OF MATERIALS INCLUDING LEATHER, FABRICS, AND RUBBER COMPOSITIONS.

Claims use since Jan. 16, 1942.

Ser. No. 450,565. CURTIS-STEPHENS-EMBRY CO., Reading, Pa. Filed Jan. 29, 1942.

Trooperette

FOR WOMEN'S AND MISSES' SHOES MADE OF COMBINATIONS OF MATERIALS INCLUDING LEATHER, FABRICS, AND RUBBER COMPOSITIONS.

Claims use since Jan. 16, 1942.

Ser. No. 451,004. CONTINENTAL OIL COMPANY, Ponca City, Okla. Filed Feb. 16, 1942.

CONOCO

FOR WEARING APPAREL—NAMELY, MEN'S SHIRTS AND TROUSERS, OVERALLS OR ONE-PIECE SUITS, COATS, SWEATERS, JACKETS, AND CAPS.

Claims use since Jan. 1, 1930.

Ser. No. 451,021. SMART MAID COAT CO., INC., New York, N. Y. Filed Feb. 16, 1942.



The words "Jr. Miss" are disclaimed apart from the mark.

FOR CHILDREN'S AND MISSES' COATS.

Claims use since July, 1939.

Ser. No. 451,121. SHAWMUT WOOLEN MILLS, INC., Stoughton, Mass. Filed Feb. 20, 1942.

McKem

DELTA COTTON

No claim is made to the term "Delta Cotton" apart from the mark.

FOR TWO-PIECE SUITS FOR INFANTS, TWO-PIECE DRESSES, PULLOVERS, KNITTED PULLOVERS FOR MEN AND WOMEN, AND BATHING SUITS FOR BOYS, WOMEN, AND CHILDREN.

Claims use since January, 1937.

Ser. No. 451,143. MARLENE SPORTSWEAR CO., INC., New York, N. Y. Filed Feb. 21, 1942.

PATCHWORK CREATIONS fashioned by MARLENE

The words "Patchwork Creations" and "Fashioned By" are disclaimed apart from the mark.

FOR LADIES' AND MISSES' BLOUSES, SKIRTS, JACKETS, DRESS AND JACKET ENSEMBLES, PLAY-SUITS, SLACKS, AND COVERALLS.

Claims use since Mar. 1, 1941.

Ser. No. 451,292. CHICAGO MAIL ORDER COMPANY, Chicago, Ill. Filed Feb. 28, 1942.

•SQUARE• SHOOTER

FOR MEN'S AND BOYS' OVERALLS, WORK PANTS, WORK JACKETS, WORK SHIRTS, AND WORK SHOES MADE OF LEATHER, RUBBER, AND COMBINATIONS THEREOF.

Claims use since Jan. 15, 1942.

Ser. No. 451,293. CHICAGO MAIL ORDER COMPANY, Chicago, Ill. Filed Feb. 28, 1942.

TUFF•MASTER

FOR MEN'S AND BOYS' OVERALLS, WORK PANTS, WORK JACKETS, WORK SHIRTS, AND WORK SHOES MADE OF LEATHER, RUBBER, AND COMBINATIONS THEREOF.

Claims use since Jan. 15, 1942.

Ser. No. 451,299. ALBERT A. GAREY, Beverly Hills, Calif. Filed Feb. 28, 1942.

THE ALERT SUIT

No claim is made to the word "Suit" apart from the mark.

FOR LADIES', MISSES', AND GIRLS' SLACK SUITS AND OVERALLS.

Claims use since Dec. 10, 1941.

Ser. No. 451,384. RICHARD SYDNEY LAWRENCE, doing business as R. S. Lawrence & Co., London, England. Filed Mar. 4, 1942.



FOR CUT LEATHER SHOE SOLES.
Claims use since November, 1919.

Ser. No. 451,439. THE B. F. GOODRICH COMPANY, New York, N. Y., and Akron, Ohio. Filed Mar. 6, 1942.



FOR FOOTWEAR COMPRISING BOOTS AND SHOES MADE OF RUBBER AND/OR FABRIC.
Claims use since June, 1941.

Ser. No. 451,447. MATERNITY DRESS CO. INC., New York, N. Y. Filed Mar. 6, 1942.

COMING ATTRACTION
maternities

The word "Maternities" is disclaimed apart from the mark.
FOR WOMEN'S DRESSES, BLOUSES, DRESS ENSEMBLES, CONSISTING OF DRESS AND JACKET COMBINATIONS, AND JACKETS.
Claims use since Oct. 1, 1940.

Ser. No. 451,538. PICARDY MILLS, INC., Brooklyn, N. Y. Filed Mar. 10, 1942.

Elvette

FOR GLOVES OF LEATHER, FABRIC, OR A COMBINATION THEREOF.
Claims use since Oct. 1, 1941.

Ser. No. 451,719. KROYWEN COATS, New York, N. Y. Filed Mar. 18, 1942.

Kroy-wen Coats

No claim is made to the word "Coats" apart from the mark.
FOR WOMEN'S AND MISSES' COATS AND SUITS.
Claims use since Dec. 19, 1941.

Ser. No. 451,737. BARBARA COAT CO., INC., New York, N. Y. Filed Mar. 19, 1942.

KINGORA

FOR WOMEN'S, MISSES' AND CHILDREN'S COATS, BOYS' AND YOUTHS' COATS.
Claims use since Mar. 13, 1942.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 450,577. STARK BROS. RIBBON CO., New York, N. Y. Filed Jan. 29, 1942.

NI-RON

FOR SEAM BINDING TAPE FOR FABRICS.
Claims use since Jan. 16, 1942.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 440,931. FIRTH CARPET COMPANY, New York, N. Y. Filed Feb. 24, 1941.



The words "Antique Cathedral Brocade" are disclaimed apart from the mark.
FOR CARPETS AND RUGS.
Claims use since Jan. 9, 1941.

Ser. No. 448,967. MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1941.

Karamount

FOR WOOLEN RUGS.
Claims use since Aug. 14, 1941.

Ser. No. 449,814. VICTOR GLOVE COMPANY, INC., New York, N. Y. Filed Dec. 27, 1941.

DUR-PLEX

FOR CLOTH—I. E., COTTON, IN THE PIECE, FOR THE FABRIC OF GLOVES.
Claims use since Nov. 1, 1941.

Ser. No. 449,823. R. C. BURROWS, doing business as The Burrows Company, Chicago, Ill. Filed Dec. 29, 1941.

BUROTEX

FOR SHEETS, PILLOW CASES, BLANKETS, BED SPREADS, PADDING, MATTRESS PADS, TOWELS, SHEETING, AND TABLE LINENS.
Claims use since Oct. 1, 1940.

Ser. No. 450,430. WESLEY SIMPSON INC., New York, N. Y. Filed Jan. 23, 1942.

"SHANTELLA"

FOR RAYON, SPUN RAYON, WOOL, WORSTED AND SILK PIECE GOODS AND PIECE GOODS MADE FROM CUPRAMMONIUM.
Claims use since June, 1941.

Ser. No. 450,504. BARRIE-MORELL & CO., New York, N. Y. Filed Jan. 27, 1942.



KINROSS-MADE IN SCOTLAND

The words "Kinross" and "Made in Scotland" are disclaimed apart from the mark.
FOR PIECE GOODS OF WOOL AND WOOL MIXTURES AND WORSTED AND WORSTED MIXTURES.
Claims use since Dec. 30, 1941.

Ser. No. 450,713. COURTAULDS, LIMITED, London, England. Filed Feb. 4, 1942.

COURDUL

FOR PIECE GOODS MADE OF CELLULOSE YARNS.
Claims use since 1938.

Ser. No. 450,730. DELTOX RUG COMPANY, Oshkosh, Wis. Filed Feb. 4, 1942.

Deltoyal

FOR RUGS OF VARIOUS TYPES—NAMELY, FIBRE RUGS, SISAL RUGS, AND FLOOR MATS OF THE SAME CHARACTER.
Claims use since 1936.

Ser. No. 450,731. DELTOX RUG COMPANY, Oshkosh, Wis. Filed Feb. 4, 1942.

DELTUFT

FOR RUGS, FLOOR MATS, AND LID AND STOOL COVERS OF TEXTILE AND COTTON TUFTED MATERIALS.
Claims use since 1932.

Ser. No. 450,928. TOBLER, ERNST & TRABER, INC., New York, N. Y. Filed Feb. 12, 1942.

NITEX

FOR WOVEN FABRICS FOR INDUSTRIAL AND TECHNICAL USE—NAMELY, STENCIL CLOTH FOR SCREEN PRINTING, AND BOLTING CLOTH FOR SIFTING AND STRAINING PURPOSES.
Claims use since Sept. 10, 1941.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 451,736. AMERICAN STERILIZER COMPANY, Erie, Pa. Filed Mar. 19, 1942.

The Americanaire

FOR ULTRA-VIOLET SPACE STERILIZING APPARATUS.
Claims use since Mar. 16, 1942.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 443,902. R. C. WILLIAMS & COMPANY, INC., New York, N. Y. Filed May 24, 1941.



FOR FOUNTAIN SYRUPS FOR FLAVORING NONALCOHOLIC MALTLESS BEVERAGES.
Claims use since April, 1915.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 429,744. C. PAPPAS COMPANY, INC., Boston, Mass. Filed Mar. 19, 1940.



Applicant disclaims all notations except "Stella D'Oro" apart from the mark. Applicant is the owner of trademark registration No. 215,760.
FOR SALAD OIL COMPRISING OLIVE AND CORN OIL.
Claims use since Mar. 5, 1940.

Ser. No. 441,432. GRANULAR FOODS, INC., New York, N. Y. Filed Mar. 11, 1941.

Yours very TRULY CHOCOLATE

Applicant disclaims the word chocolate apart from the mark.
FOR COMBINATION OF DRY EXPANDED CORN SYRUP AND FATTY EDIBLE MATERIALS SUCH AS CHOCOLATE WHICH MAY BE USED FOR MAKING CHOCOLATE FOOD BEVERAGES, AND FOR VARIOUS OTHER PURPOSES FOR WHICH CHOCOLATE POWDERS AND CHOCOLATE PREPARATIONS ARE EMPLOYED, SUCH AS FOR EXAMPLE, ICINGS, COLD CHOCOLATE DRINKS, ETC.
Claims use since Feb. 12, 1941.

Ser. No. 441,559. CLEMENT GRAIN CO., Waco, Tex. Filed Mar. 14, 1941.



FOR HOG AND POULTRY FEED SUPPLEMENTS, HORSE AND MULE FEEDS AND STOCK AND POULTRY FEEDS.
Claims use since January, 1935.

Ser. No. 442,959. KORBRO OIL CORPORATION, New York, N. Y. Filed Apr. 25, 1941.



All words except "Tra-La-La" are disclaimed apart from the mark.
FOR VEGETABLE AND SALAD OILS, INCLUDING SOYA BEAN OIL, CORN OIL, COTTONSEED OIL, SUNFLOWER OIL, AND PEANUT OIL, SAID OILS TO BE USED AS FOOD PRODUCTS.
Claims use since Feb. 1, 1933.

Ser. No. 443,661. MARINE PRODUCTS COMPANY, San Diego, Calif. Filed May 17, 1941.

OCEAN GARDEN

FOR FROZEN SHRIMP.
Claims use since May 5, 1941.

Ser. No. 445,848. GENERAL MILLS, INC., Minneapolis, Minn. Filed Aug. 1, 1941.

SURELOAF

FOR FLOUR DERIVED FROM WHEAT.
Claims use since Nov. 6, 1930.

Ser. No. 445,970. GEORGE WESTON, LTD., Passaic, N. J. Filed Aug. 4, 1941. Under 10-year proviso.

Weston's

FOR BISCUITS, CRACKERS, AND COOKIES.
Claims use since 1887.

Ser. No. 446,175. G. FRED OBRECHT, doing business as Gerard Milk Products Company, Baltimore, Md. Filed Aug. 12, 1941.

FORTIFIED MILK-TONE
Milk, Plus Vitamins A-B-G-D-E-G and Minerals
Gerard Milk Products Co.
BALTIMORE, MD.

No claim is made to any wording except "Tone" apart from the mark.
FOR POULTRY FEED.
Claims use since July 20, 1929.

Ser. No. 446,453. ECONOMY RESTAURANT SUPPLY CO., New York, N. Y. Filed Aug. 22, 1941.

FOODMASTER



The drawing is lined for red, blue, and yellow.
FOR CANNED FRUITS AND CANNED VEGETABLES.
Claims use since August, 1924.

Ser. No. 447,484. LA CHOY FOOD PRODUCTS, INC., Detroit, Mich. Filed Oct. 2, 1941.

MAIZE-NUTS

No claim is made to the term "Maize" apart from the mark.
FOR CONFECTION—NAMELY, AN EDIBLE VARIETY OF CORN COOKED IN VEGETABLE OIL AND SALTED.
Claims use since Sept. 16, 1941.

Ser. No. 448,055. MARLON CONFECTIONS CORPORATION, New York, N. Y. Filed Oct. 23, 1941.



The word "Chocolates" is disclaimed.
FOR CHOCOLATES AND CANDIES.
Claims use since Sept. 9, 1941.

Ser. No. 448,138. HAINES CITY CITRUS GROWERS ASSOCIATION, Haines City, Fla. Filed Oct. 27, 1941.

RED CLOUD

FOR FRESH CITRUS FRUIT.
Claims use since Sept. 26, 1941.

Ser. No. 448,250. FILIGREE QUALITY FOODS, INC., Jersey City, N. J. Filed Oct. 30, 1941.



FOR CANNED PEAS.
Claims use since May, 1927.

Ser. No. 449,310. RALPH D. ALLUM, New York, N. Y. Filed Dec. 9, 1941.

C-PLEX

The letter "C" is disclaimed apart from the mark.
FOR DEHYDRATED LEMONS FOR FOOD PURPOSES.
Claims use since Dec. 2, 1941.

Ser. No. 449,416. HILLSIDE CITRUS CO., INC., Riverside, Calif. Filed Dec. 12, 1941.

Coachella King

No claim is made to the name Coachella apart from the mark.
FOR FRESH CITRUS FRUITS—NAMELY, FRESH GRAPEFRUIT.
Claims use since Dec. 1, 1941.

Ser. No. 450,313. FLORENCE L. K. LING, doing business as Ling Ranch, San Jose, Calif. Filed Jan. 19, 1942.

WONDER WALNUTS

The term "Walnuts" is disclaimed apart from the mark.
FOR WALNUTS IN THEIR NATURAL STATE.
Claims use since October, 1934.

Ser. No. 450,998. BRACH'S CANDY SPECIALTIES COMPANY, Chicago, Ill. Filed Feb. 16, 1942.

Brach's HUCK FINN'S

The word "Brach's" is disclaimed apart from the mark.
FOR CANDY CARAMELS.
Claims use since June 26, 1937.

Ser. No. 451,243. ALBERT ROHAUT, Sanford, Maine. Filed Feb. 26, 1942.



No claim is made to the words "Apples", "and", and "Orchards."
FOR APPLES.
Claims use since Dec. 1, 1941.

Ser. No. 451,340. FILLMORE CITRUS ASSOCIATION, Fillmore, Calif. Filed Mar. 2, 1942.

AIRSHIP

Applicant is the owner of trade-mark registration No. 78,236.
FOR FRESH CITRUS FRUITS.
Claims use since December, 1905.

Ser. No. 451,494. KELLOGG COMPANY, Battle Creek, Mich. Filed Mar. 9, 1942.

Kel-BOWL-Pac

The word "Pac" is disclaimed apart from the mark.
FOR CEREAL BREAKFAST FOODS.
Claims use since Jan. 23, 1942.

Ser. No. 451,495. KELLOGG COMPANY, Battle Creek, Mich. Filed Mar. 9, 1942.

Kel-BOWL-Pac

The word "Pac" is disclaimed apart from the mark.
FOR CEREAL BREAKFAST FOODS.
Claims use since Jan. 23, 1942.

Ser. No. 451,615. SPRINGDALE CANNING COMPANY, Springdale, Ark. Filed Mar. 13, 1942.



The picture of the Dutch children is fanciful.
FOR CANNED VEGETABLES.
Claims use since June 1, 1937.

Ser. No. 451,622. CHOCOLATE PRODUCTS COMPANY, Chicago, Ill. Filed Mar. 14, 1942.

MILKPLUS

FOR VITAMIN FORTIFIED MILK.
Claims use since Mar. 15, 1941.

Ser. No. 451,722. LAKE PLACID PACKING COMPANY, Lake Placid, Fla. Filed Mar. 18, 1942.

WINDING WATERS

FOR ORANGES, GRAPEFRUIT, AND TANGERINES.
Claims use since 1935.

CLASS 47

WINES

Ser. No. 451,728. SCHENLEY IMPORT CORPORATION, New York, N. Y. Filed Mar. 18, 1942.

VASCO DA GAMA

Vasco da Gama is the name of a famous Portuguese explorer.
FOR WINES.
Claims use since Feb. 13, 1942.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 451,988. ED. PHILLIPS & SONS COMPANY, Minneapolis, Minn. Filed Mar. 28, 1942.

DESTIN AE

FOR CREME DE CACAO, SLOE GIN, PEPPERMINT SCHNAPPS, LIQUEUR CHERRY, ROCK AND RYE, KUMMEL, LIQUEUR PEACH, LIQUEUR APRICOT, LIQUEUR BLACKBERRY, GIN FLAVORED ORANGE LIQUEUR, CREME DE MENTHE, AND ANISETTE.
Claims use since Dec. 18, 1941.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 426,008. SEWALL & SON, INC., Auburn, Maine. Filed Nov. 27, 1939.



Applicant claims exclusive proprietorship in the arrangement of insoles shown in the drawing. Otherwise applicant makes no claim to the mere representation of any of the insoles shown in the drawing.
No claim is made to the word "Insoles" apart from the mark shown in the drawing.
FOR STRIPS OF COMPOSITE MATERIAL FROM WHICH INSOLES MAY BE CUT.
Claims use since Oct. 5, 1939.

Ser. No. 426,009. SEWALL & SON, INC., Auburn, Maine. Filed Nov. 27, 1939.

Sewl

FOR STRIPS OF COMPOSITE MATERIAL FROM WHICH INSOLES MAY BE CUT.
Claims use since Oct. 5, 1939.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MAY 12, 1942

395,032. RADIO TUBES. SONTAG CHAIN STORES CO., LTD., Los Angeles, Calif.
Filed May 10, 1937. Serial No. 392,563. PUBLISHED SEPTEMBER 21, 1937. Class 21.

395,033. FILING CABINETS. THE STEEL STORAGE FILE COMPANY, Cleveland, Ohio.
Filed November 2, 1938. Serial No. 412,312. PUBLISHED MARCH 3, 1942. Class 32.

395,034. LIQUID CLEANER FOR CLOTHS AND FURS. JOSEPH I. BLANCK, doing business as Health-Gard Process Co., Brooklyn, N. Y.
Filed February 28, 1939. Serial No. 416,500. PUBLISHED FEBRUARY 4, 1941. Class 4.

395,035. AUTOMOBILE TIRES. BARNEY RUBENS, doing business as Powertown Tire and Rubber Co., Rochester, N. Y., assignor to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York.
Filed September 18, 1939. Serial No. 423,712. PUBLISHED JANUARY 16, 1940. Class 35.

395,036. WOMEN'S AND MISSES' JACKETS. DOROTHY R. FOSTER, Passaic, N. J.
Filed April 6, 1940. Serial No. 430,441. PUBLISHED JUNE 18, 1940. Class 39.

395,037. TEXTILE PRINTING COLORS—I. E., INK-LIKE MATERIAL COMPRISING A VEHICLE AND A PIGMENT FOR PRINTING COLORED DESIGNS UPON TEXTILES. JOHN P. NISSEN, JR., doing business as John P. Nissen, Jr. Co., Wyncote, Pa.
Filed July 15, 1940. Serial No. 433,982. PUBLISHED FEBRUARY 24, 1942. Class 11.

395,038. TOILET PREPARATIONS—NAMELY, HAIR CONDITIONER, SCALP CONDITIONER, LIQUID SHAMPOO, AND WAVE SET. ELVA EVINGTON, doing business as A'Vell's Co., Chicago, Ill.
Filed August 19, 1940. Serial No. 435,124. PUBLISHED MARCH 3, 1942. Class 6.

395,039. ROOT BEER. DRINK-MOR BEVERAGE COMPANY, Wilkes-Barre, Pa.
Filed October 8, 1940. Serial No. 436,716. PUBLISHED DECEMBER 31, 1940. Class 45.

395,040. CANNED VEGETABLES; FRUITS; FRUITS AND VEGETABLE JUICES FOR FOOD PURPOSES; FISH, SHRIMP, CRABMEAT, CLAMS, ETC. R. C. WILLIAMS & COMPANY, INC., New York, N. Y.
Filed October 30, 1940. Serial No. 437,427. PUBLISHED MARCH 3, 1942. Class 46.

395,041. MEDICINES FOR THE RELIEF OF ATHLETE FOOT, ECZEMA, TETTER, BURNS, SWEATY FEET, HEAT PIMPLES, RAZOR BUMPS, POISON IVY, AND ITCHING IRRITATIONS. LAWRENCE LANIER ADAMS, doing business as L L's Antiseptic, Nashville, Tenn.
Filed November 8, 1940. Serial No. 437,671. PUBLISHED MARCH 3, 1942. Class 6.

395,042. BEER AND FOR ALE. DUQUESNE BREWING COMPANY OF PITTSBURGH, Pittsburgh, Pa.
Filed December 18, 1940. Serial No. 438,978. PUBLISHED FEBRUARY 11, 1941. Class 48.

395,043. DEODORANTS. BERNARD ARROW, Brooklyn, N. Y.
Filed December 19, 1940. Serial No. 439,009. PUBLISHED MARCH 3, 1942. Class 6.

395,044. ANALGETIC PHARMACEUTICAL PRODUCTS IN THE FORM OF POWDERS, SYRUPS, PILLS, SEALED CHEMICALS, TABLETS, ETC. DE TOLEDO FRERES S. A. PHARMACIE PRINCIPALE, Geneva, Switzerland.
Filed December 19, 1940. Serial No. 439,015. PUBLISHED MARCH 3, 1942. Class 6.

395,045. LADIES', MISSES', WOMEN'S, JUNIORS', AND CHILDREN'S DRESSES AND SLACK SUITS AND PLAY SUITS. MARKAY, INC., Kansas City, Mo.
Filed December 23, 1940. Serial No. 439,112. PUBLISHED FEBRUARY 17, 1942. Class 39.

395,046. REFLECTORS, SHADES, AND SCREENS FOR ELECTRIC LAMPS. FOSTER & DAVIES, INC., Cleveland, Ohio.
Filed December 26, 1940. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 439,197. PUBLISHED MARCH 3, 1942. Class 34.

395,047. OVERLOAD AND OVERHEAT PROTECTORS FOR ELECTRIC MOTORS AND FOR CIRCUIT CONTROLLING PROTECTORS FOR ELECTRIC APPARATUS AND POWER TRANSLATING DEVICES. MICRO SWITCH CORPORATION, Freeport, Ill.
Filed January 2, 1941. Serial No. 439,354. PUBLISHED MARCH 11, 1941. Class 21.

395,048. WETTING, FINISHING, DYEING, WASHING, AND BLEACHING AGENTS IN THE TEXTILE AND LEATHER INDUSTRY. BÖHME-FETTCHEMIE G. M. B. H., Chemnitz, Germany.
Filed January 22, 1941. Serial No. 439,855. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,049. CHILDREN'S SWEATERS AND DRESSES. GEORGE J. HECHT, doing business as Children's Products Company, New York, N. Y.
Filed January 24, 1941. Serial No. 439,932. PUBLISHED FEBRUARY 24, 1942. Class 39.

395,050. WOMEN'S, MISSES', AND CHILDREN'S GARMENTS—NAMELY, SWIMMING SUITS. COLE OF CALIFORNIA, INC., Los Angeles, Calif.
Filed February 12, 1941. Serial No. 440,580. PUBLISHED FEBRUARY 17, 1942. Class 39.

395,051. PREPARATIONS FOR USE IN HAIR AND SCALP TREATMENTS—NAMELY, SHAMPOO AND CREME. ANTISEPTOL COMPANY, INC., Chicago, Ill.
Filed February 13, 1941. Serial No. 440,615. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,052. SAFETY RAZORS AND SAFETY RAZOR BLADES. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass.
Filed February 17, 1941. Serial No. 440,719. PUBLISHED APRIL 22, 1941. Class 23.

395,053. SIZE CONTROL DEVICES FOR DETERMINING RADIAL OPERATION OF THE TOOL OF THE HONING MACHINE. MICROMATIC HONE CORPORATION, Detroit, Mich.
Filed March 7, 1941. Serial No. 441,320. PUBLISHED MARCH 3, 1942. Class 26.

395,054. DEODORIZER AND DISINFECTANT. ABBOTT LABORATORIES, North Chicago, Ill.
Filed March 22, 1941. Serial No. 441,803. PUBLISHED MAY 20, 1941. Class 6.

395,055. LIQUID SOLVENT SOLD FOR REMOVING CARBON FROM INTERNAL COMBUSTION ENGINES, AND ACCUMULATIONS OF TAR, WAX, GREASE, AND LUBRICANTS FROM MACHINERY, FABRICS, RUBBER, AND LACQUERED SURFACES, BUT NOT FOR MEDICINAL OR PHARMACEUTICAL PURPOSES. CARL VOSBRINGER, doing business as Penotrite Products Company, Long Island City, N. Y.
Filed March 24, 1941. Serial No. 441,891. PUBLISHED MAY 27, 1941. Class 6.

395,056. REVERSIBLE IRONING BOARD COVERS. FRASER PRODUCTS CO., Detroit, Mich.
Filed April 7, 1941. Serial No. 442,356. PUBLISHED JULY 15, 1941. Class 24.

395,057. DUST AND OIL SEALS FOR USE IN WHEEL AND HUB ASSEMBLIES OF TRACTORS, FARM IMPLEMENTS, AND THE LIKE. THE OHIO RUBBER COMPANY, Willoughby, Ohio.
Filed April 25, 1941. Serial No. 442,966. PUBLISHED MARCH 3, 1942. Class 35.

395,058. ARTICLES OF CLOTHING FOR WOMEN COMPRISING MATERNITY GOWNS. MAXWELL COOPER & CO., LIMITED, London, England.
Filed May 6, 1941. Serial No. 443,300. PUBLISHED FEBRUARY 24, 1942. Class 39.

395,059. COMBINATION BATTERY CHARGING AND TESTING APPARATUS. THE MERCURY CORPORATION, Kansas City, Mo.
Filed May 9, 1941. Serial No. 443,422. PUBLISHED MARCH 3, 1942. Class 26.

395,060. FACE POWDER. LADY ESTHER SALES CO., Chicago, Ill.
Filed May 12, 1941. Serial No. 443,510. PUBLISHED JULY 22, 1941. Class 6.

395,061. LADIES' CLOTH COATS. SICES & RIEGER, INCORPORATED, Chicago, Ill.
Filed May 23, 1941. Serial No. 443,860. PUBLISHED OCTOBER 21, 1941. Class 39.

395,062. ROTARY CUTTING AND CARVING TOOLS AND ELECTRICALLY OPERATED HAND HELD CHUCKS, OR DRIVERS THEREFOR. CASCO PRODUCTS CORPORATION, Bridgeport, Conn.
Filed May 27, 1941. Serial No. 443,971. PUBLISHED FEBRUARY 24, 1942. Class 23.

395,063. SEPARABLE SLIDE FASTENERS. CROWN FASTENER CORPORATION, Warren, R. I.
Filed May 31, 1941. Serial No. 444,073. PUBLISHED SEPTEMBER 9, 1941. Class 13.

395,064. MATERIALS MADE WHOLLY OR IN PART FROM SYNTHETIC RESINOIDS AND SOLD IN THE FORM OF SHEETS, BLOCKS, TUBES, RODS, AND SHAPED PIECES—NAMELY, ANGLES AND CHANNELS. ELLISON INSULATIONS LIMITED, Perry Barr, Birmingham, England.
Filed June 3, 1941. Serial No. 444,140. PUBLISHED MARCH 3, 1942. Class 1.

395,065. MATERIALS MADE WHOLLY OR IN PART FROM SYNTHETIC RESINOIDS AND SOLD IN THE FORM OF SHEETS, BLOCKS, TUBES, RODS, AND SHAPED PIECES—NAMELY, ANGLES AND CHANNELS. ELLISON INSULATIONS LIMITED, Perry Barr, Birmingham, England.
Filed June 3, 1941. Serial No. 444,141. PUBLISHED MARCH 3, 1942. Class 1.

395,066. MATERIALS MADE WHOLLY OR IN PART FROM SYNTHETIC RESINOIDS AND SOLD IN THE FORM OF SHEETS, BLOCKS, TUBES, RODS, AND SHAPED PIECES—NAMELY, ANGLES AND CHANNELS. ELLISON INSULATIONS LIMITED, Perry Barr, Birmingham, England.
Filed June 3, 1941. Serial No. 444,142. PUBLISHED MARCH 3, 1942. Class 1.

395,067. MATERIALS MADE WHOLLY OR IN PART FROM SYNTHETIC RESINOIDS AND SOLD IN THE FORM OF SHEETS, BLOCKS, TUBES, RODS, AND SHAPED PIECES—NAMELY, ANGLES AND CHANNELS. ELLISON INSULATIONS LIMITED, Perry Barr, Birmingham, England.
Filed June 3, 1941. Serial No. 444,143. PUBLISHED MARCH 3, 1942. Class 1.

395,068. MATERIALS MADE WHOLLY OR IN PART FROM SYNTHETIC RESINOIDS AND SOLD IN THE FORM OF SHEETS, BLOCKS, TUBES, RODS, AND SHAPED PIECES—NAMELY, ANGLES AND CHANNELS. ELLISON INSULATIONS LIMITED, Perry Barr, Birmingham, England.
Filed June 3, 1941. Serial No. 444,144. PUBLISHED MARCH 3, 1942. Class 1.

395,069. VITAMIN PREPARATIONS, PARTICULARLY MEDICINAL DOSAGES IN CAPSULE FORM OF VITAMINS A, B_1, D, AND G. NUTRITION RESEARCH LABORATORIES, Chicago, Ill.
Filed June 23, 1941. Serial No. 444,766. PUBLISHED AUGUST 5, 1941. Class 6.

395,070. NON-ELECTRIC FREIGHT AND PASSENGER ELEVATORS AND AUTOMOBILE, BUS, TRUCK, AND FREIGHT LIFTS. ROTARY LIFT COMPANY, Memphis, Tenn.
Filed July 3, 1941. Serial No. 445,068. PUBLISHED FEBURARY 24, 1942. Class 23.

395,071. CHEMICAL SOLVENT FOR INCREASING AND IMPROVING THE EFFICIENCY OF LUBRICATING OILS BY DISSOLVING GUM AND SLUDGE RESIDUES. KANT RUST PRODUCTS CORPORATION, Rahway, N. J., assignor to The A. S. Boyle Company, Jersey City, N. J., a corporation of Ohio.
Filed July 29, 1941. Serial No. 445,737. PUBLISHED MARCH 3, 1942. Class 6.

395,072. COMPOUND OR COMPOSITION OF BODIED OITICICA OIL FOR USE IN PAINTS AND VARNISHES. THE SCIENTIFIC OIL COMPOUNDING CO., Chicago, Ill.
Filed July 30, 1941. Serial No. 445,782. PUBLISHED FEBRUARY 24, 1942. Class 16.

395,073. CANVAS BEACH SHELTERS AND CANVAS WINDBREAKS. THE BEACHETTE CO., Fort Lauderdale, Fla.
Filed August 16, 1941. Serial No. 446,287. PUBLISHED NOVEMBER 25, 1941. Class 50.

395,074. LADIES' AND MEN'S SPORTSWEAR—NAMELY, SPORT SHIRTS, JACKETS, COATS, AND SWEATERS. CONSOLIDATED HAT STORES, LTD., doing business as New York Hat Stores, Los Angeles, Calif.
Filed August 18, 1941. Serial No. 446,314. PUBLISHED FEBRUARY 24, 1942. Class 39.

395,075. WOMEN'S AND MISSES' SUITS AND COATS. MORRIS W. HAFT & BROS., INC., New York, N. Y.
Filed August 28, 1941. Serial No. 446,625. PUBLISHED FEBRUARY 24, 1942. Class 39.

395,076. WOMEN'S AND MISSES' DRESSES. WORTHY-MISS DRESSES, INC., New York, N. Y.
Filed August 30, 1941. Serial No. 446,714. PUBLISHED FEBRUARY 24, 1942. Class 39.

395,077. FRESH CITRUS FRUITS—NAMELY, ORANGES, GRAPEFRUIT, AND TANGERINES. NEVINS FRUIT CO., INC., New York, N. Y.
Filed September 8, 1941. Serial No. 446,888. PUBLISHED MARCH 3, 1942. Class 46.

395,078. CHILDREN'S SWEATERS, DRESSES, SUITS, COATS, HOUSECOATS, BLOUSES, PLAY SUITS, SLACKS, AND SKIRTS. GEORGE J. HECHT, doing business as Children's Products Company, New York, N. Y.
Filed September 22, 1941. Serial No. 447,236. PUBLISHED FEBRUARY 24, 1942. Class 39.

395,079. SWEATERS. NORMAN D. WATERS & ASSOCIATES, INC., New York, N. Y.
Filed September 22, 1941. Serial No. 447,261. PUBLISHED FEBRUARY 24, 1942. Class 39.

395,080. ROOT BEER AND SYRUP USED IN MAKING ROOT BEER. RICHARDSON CORPORATION, Rochester, N. Y.
Filed October 2, 1941. Serial No. 447,491. PUBLISHED MARCH 3, 1942. Class 45.

395,081. READY-MIXED PAINTS, AND VARNISHES. ROBERT W. IRWIN COMPANY, Grand Rapids, Mich.
Filed October 3, 1941. Serial No. 447,514. PUBLISHED FEBRUARY 24, 1942. Class 16.

395,082. AIRCRAFT—NAMELY, LAND AND HYDRO AIRPLANES AND STRUCTURAL PARTS THEREOF. UNITED AIRCRAFT CORPORATION, East Hartford, Conn.
Filed October 3, 1941. Serial No. 447,526. PUBLISHED MARCH 3, 1942. Class 19.

395,083. PAPER AND COMPOSITION GASKETS AND GASKETING TAPE. F. D. FARNAM, doing business as F. D. Farnam & Co., Chicago, Ill.
Filed October 3, 1941. Serial No. 447,528. PUBLISHED MARCH 3, 1942. Class 35.

395,084. HOUSEHOLD BLEACH. FEDERATED FOODS, INC., also doing business as Federated Foods, Chicago, Ill.
Filed October 15, 1941. Serial No. 447,802. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,085. PARTLY PREPARED APPLESAUCE. RED-EE FOODS, INC., Los Angeles, Calif.
Filed October 15, 1941. Serial No. 447,822. PUBLISHED MARCH 3, 1942. Class 46.

395,086. LINIMENT FOR EXTERNAL APPLICATION FOR THE RELIEF OF SORE MUSCLES, STRAINS, BRUISES, WRENCHES, ACHES AND PAINS, SUNBURN, CUTS, INSECT BITES, ITCH, ATHLETES FOOT, ETC. L. TURNIPSEED, INC., St. Louis, Mo.
Filed October 20, 1941. Serial No. 447,962. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,087. MANUALLY SUPPORTED MOTOR UNITS FOR PORTABLE POWER OPERATED TOOLS, EACH COMPRISING A MOTOR, A SUPPORT FOR THE IMPLEMENT TO BE OPERATED, ETC. THE BUCKEYE PORTABLE TOOL CO., Dayton, Ohio.
Filed October 22, 1941. Serial No. 447,994. PUBLISHED MARCH 3, 1942. Class 23.

395,088. MEDICINAL PREPARATIONS INDICATED IN AND FOR THE TREATMENT AND THE MITIGATION OF THE SYMPTOMATIC MANIFESTATIONS OF FUNCTIONAL DISORDERS OF THE LIVER AND INTESTINES, ETC. THE KNOX COMPANY, Los Angeles, Calif.
Filed October 23, 1941. Serial No. 448,054. PUBLISHED MARCH 3, 1942. Class 6.

395,089. FOOD NUTRIENT HAVING THERAPEUTIC PROPERTIES. HERMAN A. HEIDEMEYER, Roselle Park, N. J.
Filed October 24, 1941. Serial No. 448,080. PUBLISHED MARCH 3, 1942. Class 6.

395,090. BOND, LINEN AND LEDGER PAPERS. PARSONS PAPER COMPANY, Holyoke, Mass.
Filed October 27, 1941. Under 10-year proviso. Serial No. 448,167. PUBLISHED MARCH 3, 1942. Class 37.

395,091. VITAMIN PREPARATIONS. OXFORD PRODUCTS, INC., Cleveland, Ohio.
Filed November 1, 1941. Serial No. 448,231. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,092. PET FOOD PRODUCTS AND AQUARIUM PRODUCTS—NAMELY, FISH FOOD. PARAMOUNT AQUARIUM, INC., New York, N. Y.
Filed November 7, 1941. Serial No. 448,456. PUBLISHED MARCH 3, 1942. Class 46.

395,093. CANNED PINEAPPLE. ARTHUR SERRA AND CO., Hollywood, Fla.
Filed November 10, 1941. Serial No. 448,531. PUBLISHED MARCH 3, 1942. Class 46.

395,094. TABLET FOR HEADACHES. EDWARD A. SPARR, doing business as Douglas Miller Company, Camden, N. J.
Filed November 10, 1941. Serial No. 448,532. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,095. VITAMIN PREPARATIONS. STRONG COBB & CO., INC., Cleveland, Ohio.
Filed November 10, 1941. Serial No. 448,534. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,096. KNIT WEAR—NAMELY, SWEATERS. WILHOITES' INC., Los Angeles, Calif.
Filed November 10, 1941. Serial No. 448,539. PUBLISHED MARCH 3, 1942. Class 39.

395,097. ORGANIC AMINE COMPOUND SUCH AS HIGHER FATTY ACID-ALKYLOLAMINE CONDENSATES, WHICH ARE USEFUL AS TEXTILE SOFTENING AND CLEANSING AGENTS. CHARLOTTE CHEMICAL LABORATORIES, INC., Charlotte, N. C.
Filed November 15, 1941. Serial No. 448,670. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,098. FLEXIBLE ARMORED CABLE FOR ELECTRICAL USE. AMERICAN METAL MOULDING COMPANY, Irvington, N. J.
Filed November 18, 1941. Serial No. 448,716. PUBLISHED MARCH 3, 1942. Class 21.

395,099. PERFUMES, CREAM ROUGE, EYE SHADOW, ROUGE, CLEANSING CREAM, COLD CREAM, HAND LOTION, ETC. MAISON JEURELLE-SEVENTEEN, INC., New York, N. Y.
Filed November 19, 1941. Serial No. 448,763. PUBLISHED MARCH 3, 1942. Class 6.

395,100. TOY PAPERBOARD FIGURES. BARNES, REINECKE & REBHOLZ, Chicago, Ill.
Filed November 21, 1941. Serial No. 448,776. PUBLISHED MARCH 3, 1942. Class 22.

395,101. TOY PAPERBOARD FIGURES. BARNES, REINECKE & REBHOLZ, Chicago, Ill.
Filed November 21, 1941. Serial No. 448,777. PUBLISHED MARCH 3, 1942. Class 22.

395,102. ICE-CREAM, ICES, PASTRIES—NAMELY, CAKES, COOKIES, AND BISCUITS. BARRICINI INC., New York and Long Island City, N. Y.
Filed November 24, 1941. Serial No. 448,845. PUBLISHED MARCH 3, 1942. Class 46.

395,103. NONALCOHOLIC BEVERAGES SOLD AS SOFT DRINKS. BARRICINI INC., New York and Long Island City, N. Y.
Filed November 24, 1941. Serial No. 448,846. PUBLISHED MARCH 3, 1942. Class 45.

395,104. INSECTICIDES. WM. B. LINGO, doing business as Medical Supply Company, St. Petersburg, Fla.
Filed November 24, 1941. Serial No. 448,867. PUBLISHED MARCH 3, 1942. Class 6.

395,105. PREPARATION TO HELP PREVENT AND FOR USE IN THE TREATMENT OF COCCIDIOSIS IN CHICKS, AND FOR USE AS A FLUSH FOR HENS. MAMIE RADLEY, doing business as Mrs. J. W. Radley, Houston, Tex.
Filed November 24, 1941. Serial No. 448,873. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,106. BATH CRYSTALS AND OILS, WATER SOFTENING PREPARATIONS, PREPARATIONS FOR BUBBLE BATHS, AND PERFUMES. SCHRATS, INC., Detroit, Mich.
Filed November 24, 1941. Serial No. 448,874. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,107. BEER. THE WILLIAM GERST BREWING CO., INC., Nashville, Tenn.
Filed November 25, 1941. Serial No. 448,904. PUBLISHED MARCH 3, 1942. Class 48.

395,108. GARMENT BAGS, LAUNDRY BAGS, AND SHOE BAGS. PHOENIX CLOSET ACCESSORIES, INC., New York, N. Y.
Filed November 26, 1941. Serial No. 448,953. PUBLISHED MARCH 3, 1942. Class 2.

395,109. ELECTRIC DRY CELLS AND DRY CELL BATTERIES. NATIONAL CARBON COMPANY, INC., New York, N. Y.
Filed November 27, 1941. Serial No. 448,980. PUBLISHED MARCH 3, 1942. Class 21.

395,110. ICING. PH. ORTH CO., Milwaukee, Wis.
Filed November 27, 1941. Serial No. 448,983. PUBLISHED MARCH 3, 1942. Class 46.

395,111. LAMPBLACK FOR USE AS AN INK PIGMENT. THE L. MARTIN COMPANY, INC., New York, N. Y.
Filed November 28, 1941. Serial No. 449,011. PUBLISHED JANUARY 20, 1942. Class 11.

395,112. COUGH AND BRONCHIAL SYRUP. PREMO PHARMACEUTICAL LABORATORIES, INC., New York, N. Y.
Filed November 28, 1941. Serial No. 449,017. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,113. MUFFLERS FOR INTERNAL COMBUSTION ENGINES. WESTERN AUTO SUPPLY COMPANY, Los Angeles, Calif.
Filed November 28, 1941. Serial No. 449,029. PUBLISHED FEBRUARY 24, 1942. Class 23.

395,114. CANNED SHRIMP. DORGAN PACKING CORP., Mobile, Ala., and Biloxi, Miss.
Filed November 29, 1941. Serial No. 449,041. PUBLISHED MARCH 3, 1942. Class 46.

395,115. PERFUMES, TOILET WATERS, AND FACE AND TALCUM POWDERS. PARFUMS SCHIAPARELLI, INC., New York, N. Y.
Filed November 29, 1941. Serial No. 449,055. PUBLISHED MARCH 3, 1942. Class 6.

395,116. PERFUMES, TOILET WATERS, AND FACE AND TALCUM POWDERS. PARFUMS SCHIAPARELLI, INC., New York, N. Y.
Filed November 29, 1941. Serial No. 449,056. PUBLISHED MARCH 3, 1942. Class 6.

395,117. PERFUMES, TOILET WATERS, AND FACE AND TALCUM POWDERS. PARFUMS SCHIAPARELLI, INC., New York, N. Y.
Filed November 29, 1941. Serial No. 449,057. PUBLISHED MARCH 3, 1942. Class 6.

395,118. PERFUMES, LIPSTICKS, ROUGES, FACE CREAMS, TOILET WATERS, AND FACE AND TALCUM POWDERS. PARFUMS SCHIAPARELLI, INC., New York, N. Y.
Filed November 29, 1941. Serial No. 449,060. PUBLISHED MARCH 3, 1942. Class 6.

395,119. PERFUMES, LIPSTICKS, ROUGES, FACE CREAMS, TOILET WATERS, AND FACE AND TALCUM POWDERS. PARFUMS SCHIAPARELLI, INC., New York, N. Y.
Filed November 29, 1941. Serial No. 449,063. PUBLISHED MARCH 3, 1942. Class 6.

395,120. PERFUMES, TOILET WATERS, ROUGES, LIPSTICKS, FACE CREAMS, AND FACE AND TALCUM POWDERS. PARFUMS SCHIAPARELLI, INC., New York, N. Y.
Filed November 29, 1941. Serial No. 449,064. PUBLISHED MARCH 3, 1942. Class 6.

395,121. LADIES' AND MISSES' DRESSES, SUITS, AND COATS. VERA ADRIENNE MERRJKO, New York, N. Y.
Filed December 3, 1941. Serial No. 449,147. PUBLISHED FEBRUARY 17, 1942. Class 39.

395,122. FISH OIL OR FISH LIVER OIL, OR A BLEND OF TWO OR MORE OF THE FOLLOWING: VITAMIN D CONCENTRATE, SYNTHETIC VITAMIN D, FISH LIVER OIL, FISH OIL, ETC. NATIONAL OIL PRODUCTS COMPANY, Harrison, N. J.
Filed December 3, 1941. Serial No. 449,148. PUBLISHED MARCH 3, 1941. Class 46.

395,123. METAL DRILLS AND REAMERS. LESTER G. BLACK, doing business as The Black Drill Co., Cleveland, Ohio.
Filed December 4, 1941. Serial No. 449,167. PUBLISHED MARCH 3, 1942. Class 23.

395,124. POULTRY—NAMELY, BABY CHICKS. JOHN H. SCOFIELD, doing business as Scofield Hatchery, Peoria, Ill.
Filed December 4, 1941. Serial No. 449,193. PUBLISHED MARCH 3, 1942. Class 46.

395,125. SHAMPOOING PREPARATION. PACKERS TAR SOAP, INC., Mystic, Conn., and New York, N. Y.
Filed December 5, 1941. Serial No. 449,210. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,126. SHAMPOOING PREPARATION. PACKERS TAR SOAP, INC., Mystic, Conn., and New York, N. Y.
Filed December 5, 1941. Serial No. 449,211. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,127. ELECTRIC STORAGE BATTERIES OR ACCUMULATORS, THEIR PARTS AND SUPPLIES. THE ELECTRIC STORAGE BATTERY COMPANY, Philadelphia, Pa.
Filed December 6, 1941. Serial No. 449,225. PUBLISHED MARCH 3, 1942. Class 21.

395,128. LADIES' SWEATERS. HECHT & BIERN, New York, N. Y.
Filed December 6, 1941. Serial No. 449,232. PUBLISHED FEBRUARY 17, 1942. Class 39.

395,129. HAIR WAVING AND FIXING SOLUTIONS AND SHAMPOOS. HERMAN STEIN, doing business as The Ondolea Company, New York, N. Y.
Filed December 6, 1941. Serial No. 449,243. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,130. AIR PURIFYING COMPOUND IN BLOCK FORM USED PARTICULARLY IN FOOD COMPARTMENTS OF REFRIGERATORS FOR ABSORBING FOOD ODORS THEREFROM. THE FRIGERBAR CORPORATION, Kansas City, Mo.
Filed December 8, 1941. Serial No. 449,260. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,131. HYBRID SEED CORN. REID NATIONAL CORN COMPANY, Anamosa, Iowa.
Filed December 9, 1941. Serial No. 449,327. PUBLISHED MARCH 3, 1942. Class 1.

395,132. OINTMENT FOR RECTAL IRRITATIONS. FRANK J. RIESSER, Fort Thomas, Ky.
Filed December 9, 1941. Serial No. 449,329. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,133. EXTENDER FOR LATEX AND DISPERSED RUBBER. R. T. VANDERBILT COMPANY, INC., New York, N. Y.
Filed December 10, 1941. Serial No. 449,363. PUBLISHED MARCH 3, 1942. Class 6.

395,134. LADIES' AND MISSES' DRESSES, AND DRESS ENSEMBLES CONSISTING OF A DRESS AND COAT. DAVID CRYSTAL, INC., New York, N. Y.
Filed December 11, 1941. Serial No. 449,366. PUBLISHED FEBRUARY 17, 1942. Class 39.

395,135. LETTER HEADS, ENVELOPES, AND COMBINED LETTER HEADS AND ENVELOPES. BENJAMIN H. DYSHEL, doing business as Victory Letter-Velope Co., Philadelphia, Pa.
Filed December 11, 1941. Serial No. 449,368. PUBLISHED MARCH 3, 1942. Class 37.

395,136. YARNS. FLEISHER YARNS, INC., New York, N. Y.
Filed December 11, 1941. Serial No. 449,370. PUBLISHED MARCH 3, 1942. Class 43.

395,137. PERFUMES, LIPSTICKS, ROUGES, FACE CREAMS, TOILET WATERS AND FACE AND TALCUM POWDERS. PARFUMS SCHIAPARELLI, INC., New York, N. Y.
Filed December 11, 1941. Serial No. 449,386. PUBLISHED MARCH 3, 1942. Class 6.

395,138. PERFUMES, TOILET WATERS, ROUGES, LIPSTICKS, FACE CREAMS, AND FACE AND TALCUM POWDERS. PARFUMS SCHIAPARELLI, INC., New York, N. Y.
Filed December 11, 1941. Serial No. 449,387. PUBLISHED MARCH 3, 1942. Class 6.

395,139. SOLID FUEL BURNING COOKING STOVES. AGA STOVE COMPANY, INCORPORATED, Cranford, N. J.
Filed December 13, 1941. Serial No. 449,442. PUBLISHED MARCH 3, 1942. Class 34.

395,140. WRAPPING PAPER. INTERNATIONAL PAPER COMPANY, New York, N. Y.
Filed December 13, 1941. Serial No. 449,457. PUBLISHED MARCH 3, 1942. Class 37.

395,141. ASBESTOS YARNS. UNITED STATES RUBBER COMPANY, New York, N. Y.
Filed December 13, 1941. Serial No. 449,471. PUBLISHED FEBRUARY 17, 1942. Class 43.

395,142. WOMEN'S, MISSES', AND JUNIORS' SUITS, COATS, DRESSES, AND SLACKS. MOORDALE CASUALS, INC., Chicago, Ill.
Filed December 15, 1941. Serial No. 449,491. PUBLISHED FEBRUARY 17, 1942. Class 39.

395,143. PERFUMES, TOILET WATERS, AND FACE LOTIONS. MONEAU CORP. OF NEW YORK, New York, N. Y.
Filed December 16, 1941. Serial No. 449,528. PUBLISHED MARCH 3, 1942. Class 6.

395,144. SHAMPOOS, RINSES, AND HAIR OILS. PINE COCO PRODUCTS INCORPORATED, Des Moines, Iowa.
Filed December 17, 1941. Serial No. 449,553. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,145. MOVING PICTURE REELS. GOLDBERG BROTHERS, Denver, Colo.
Filed December 18, 1941. Serial No. 449,574. PUBLISHED MARCH 3, 1942. Class 26.

395,146. PERFUMES, TOILET WATER, NAIL POLISH, AND ROUGES. ELIZABETH ARDEN SALES CORPORATION, New York, N. Y.
Filed December 19, 1941. Serial No. 449,596. PUBLISHED MARCH 3, 1942. Class 6.

395,147. VENDING MACHINES. A. DALKIN CO., Chicago, Ill.
Filed December 19, 1941. Serial No. 449,601. PUBLISHED FEBRUARY 24, 1942. Class 23.

395,148. MEDICINAL PREPARATION CONSISTING OF A COMBINATION OF PERTUSSIS VACCINE AND DIPHTHERIA TOXOID, ALUM PRECIPITATED, USED FOR IMMUNIZATION AGAINST WHOOPING COUGH AND DIPHTHERIA. ELI LILLY AND COMPANY, Indianapolis, Ind.
Filed December 19, 1941. Serial No. 449,617. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,149. HOSIERY. THE OAKLAND TOGGERY, also doing business as L So & Co., Oakland, Calif.
Filed December 19, 1941. Serial No. 449,625. PUBLISHED FEBRUARY 24, 1942. Class 39.

395,150. BABBITT METAL. AMERICAN VAPOR, INC., New York, N. Y.
Filed December 20, 1941. Serial No. 449,633. PUBLISHED FEBRUARY 24, 1942. Class 14.

395,151. CHOLAGOGUE EVACUANT. MARCY LABORATORIES, INC., New York, N. Y.
Filed December 20, 1941. Serial No. 449,649. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,152. CONDITIONING MEDIA FOR YARNS, THREADS, AND FILAMENTS. AMERICAN VISCOSE CORPORATION, Wilmington, Del.
Filed December 24, 1941. Serial No. 449,731. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,153. CONDITIONING MEDIA FOR YARNS, THREADS, AND FILAMENTS. AMERICAN VISCOSE CORPORATION, Wilmington, Del.
Filed December 24, 1941. Serial No. 449,732. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,154. PHOSPHATIDES. THE GLIDDEN COMPANY, Cleveland, Ohio.
Filed December 24, 1941. Serial No. 449,735. PUBLISHED MARCH 3, 1942. Class 6.

395,155. LAMP MASKS, SHADES AND FILTERS FOR BLACKOUT PURPOSES. FREDERICK G. RICHARDS, New York, N. Y.
Filed December 24, 1941. Serial No. 449,741. PUBLISHED MARCH 3, 1942. Class 34.

395,156. OPHTHALMIC MOUNTINGS, LENSES FOR SAID MOUNTINGS, BLANKS FOR SUCH LENSES AND LENS SUPPORTING MEANS FOR SUCH OPHTHALMIC MOUNTINGS. AMERICAN OPTICAL COMPANY, Southbridge, Mass.
Filed December 26, 1941. Serial No. 449,748. PUBLISHED MARCH 3, 1942. Class 26.

395,157. ELECTRIC STORAGE BATTERIES. THE B. F. GOODRICH COMPANY, New York, N. Y., and Akron, Ohio.
Filed December 26, 1941. Serial No. 449,771. PUBLISHED MARCH 3, 1942. Class 21.

395,158. PREPARATION OR PRODUCT IN TABLET OR POWDERED FORM FOR HUMAN CONSUMPTION, FOR THE PURPOSE OF MAKING UP ANY VITAMIN DEFICIENCY IN THE DIET. LANTEEN MEDICAL LABORATORIES, INC., Chicago, Ill.
Filed December 26, 1941. Serial No. 449,774. PUBLISHED MARCH 3, 1942. Class 6.

395,159. LIPSTICK AND DRY ROUGE. CHARLES OF THE RITZ, INC., New York, N. Y.
Filed December 27, 1941. Serial No. 449,793. PUBLISHED MARCH 3, 1942. Class 6.

395,160. MEDICINAL PREPARATIONS COMPRISING VITAMINS AND IRON. DR. D. JAYNE & SON, INC., Philadelphia, Pa.
Filed December 27, 1941. Serial No. 449,800. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,161. METAL POLISH IN PASTE FORM. GENERAL CHEMICAL COMPANY, New York, N. Y.
Filed December 29, 1941. Serial No. 449,837. PUBLISHED MARCH 3, 1942. Class 4.

395,162. WALLPAPER CLEANER, GLASS CLEANER, AND SOAP FLAKES. THE KROGER GROCERY & BAKING COMPANY, Cincinnati, Ohio.
Filed December 30, 1941. Serial No. 449,859. PUBLISHED FEBRUARY 24, 1942. Class 4.

395,163. SAL SODA, CHLORITE, AND WATER SOFTENER. THE KROGER GROCERY & BAKING COMPANY, Cincinnati, Ohio.
Filed December 30, 1941. Serial No. 449,860. PUBLISHED MARCH 3, 1942. Class 6.

395,164. VITAMIN PREPARATIONS. ABBOTT LABORATORIES, North Chicago, Ill.
Filed December 31, 1941. Serial No. 449,876. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,165. VITAMIN PREPARATIONS. ABBOTT LABORATORIES, North Chicago, Ill.
Filed December 31, 1941. Serial No. 449,877. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,166. VITAMIN PREPARATIONS. ABBOTT LABORATORIES, North Chicago, Ill.
Filed December 31, 1941. Serial No. 449,878. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,167. ELECTRICAL SPACE DISCHARGE TUPES. RAYTHEON PRODUCTION CORPORATION, Newton, Mass.
Filed December 31, 1941. Serial No. 449,914. PUBLISHED MARCH 3, 1942. Class 21.

395,168. ELECTRICAL SPACE DISCHARGE TUBES. RAYTHEON PRODUCTION CORPORATION, Newton, Mass.
Filed December 31, 1941. Serial No. 449,915. PUBLISHED MARCH 3, 1942. Class 21.

395,169. ELECTRICAL SPACE DISCHARGE TUBES. RAYTHEON PRODUCTION CORPORATION, Newton, Mass.
Filed December 31, 1941. Serial No. 449,916. PUBLISHED MARCH 3, 1942. Class 21.

395,170. ANTIVENEREAL PREPARATIONS. E. R. SQUIBB & SONS, New York, N. Y.
Filed December 31, 1941. Serial No. 449,925. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,171. PERFUME AND TOILET WATER, FACE POWDER AND LIPSTICK. SIDNEY HENRY, doing business as S. H. Hirsch, New York, N. Y.
Filed January 1, 1942. Serial No. 449,939. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,172. PERFUME AND TOILET WATER, FACE POWDER AND LIPSTICK. SIDNEY HENRY, doing business as S. H. Hirsch, New York, N. Y.
Filed January 1, 1942. Serial No. 449,940. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,173. PERFUME AND TOILET WATER, FACE POWDER AND LIPSTICK. SIDNEY HENRY, doing business as S. H. Hirsch, New York, N. Y.
Filed January 1, 1942. Serial No. 449,941. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,174. MILKING MACHINES. WALKER-GORDON LABORATORY COMPANY, INC., Plainsboro, N. J.
Filed January 1, 1942. Serial No. 449,947. PUBLISHED MARCH 3, 1942. Class 23.

395,175. CHEESE. TORMEY, BELLO & CIA. SOCIEDAD DE RESPONSABILIDAD LIMITADA, Buenos Aires, Argentina.
Filed January 2, 1942. Serial No. 449,971. PUBLISHED MARCH 3, 1942. Class 46.

395,176. SPECIAL PURPOSE FOOD FOR HUMAN CONSUMPTION, CONTAINING RICE BRAN, WHEAT, OAT FLOUR, ALFALFA EXTRACT AND FISH LIVER OIL. PAN-AMERICAN DISTRIBUTING CO., Charlotte, N. C.
Filed January 6, 1942. Serial No. 450,020. PUBLISHED MARCH 3, 1942. Class 46.

395,177. FRESH VEGETABLES. RALPH E. MYERS, doing business as Ralph E. Myers Co., Salinas, Calif.
Filed January 7, 1942. Serial No. 450,058. PUBLISHED MARCH 3, 1942. Class 46.

395,178. TABLE TENNIS BALLS. ERIC LUNDBERG, New York, N. Y.
Filed January 8, 1942. Serial No. 450,072. PUBLISHED MARCH 3, 1942. Class 22.

395,179. VITAMIN CAPSULES. PREMO PHARMACEUTICAL LABORATORIES, INC., New York, N. Y.
Filed January 8, 1942. Serial No. 450,077. PUBLISHED MARCH 3, 1942. Class 6.

395,180. LIPSTICKS, ROUGE IN CAKE FORM AND IN CREAM FORM, VANITY CASES CONTAINING ROUGE AND/OR LIPSTICKS, NAIL POLISH, COLOGNE, TALCUM POWDER, DUSTING POWDER, AND BUBBLING BATH PREPARATION. LEHN & FINK PRODUCTS CORPORATION, Bloomfield, N. J.
Filed January 9, 1942. Serial No. 450,106. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,181. TIRES COMPOSED WHOLLY OR PRINCIPALLY OF RUBBER. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed January 13, 1942. Serial No. 450,179. PUBLISHED MARCH 3, 1942. Class 35.

395,182. PERFUME. MARY CHESS INC., New York, N. Y.
Filed January 16, 1942. Serial No. 450,256. PUBLISHED FEBRUARY 24, 1942. Class 6.

395,183. PREPARATION FOR THE TREATMENT OF CERTAIN TYPES OF SYPHILIS AND RELATED INFECTIONS. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed January 19, 1942. Serial No. 450,315. PUBLISHED MARCH 3, 1942. Class 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

395,184. (CLASS 39. CLOTHING.) MERCHANTVILLE HOSIERY COMPANY, Merchantville, N. J. Filed Jan. 10, 1939. Serial No. 414,666

FULLTOE

FOR HOSIERY.
Claims use since Jan. 4, 1939.

395,185. (CLASS 39. CLOTHING.) ABRAHAM & STRAUS, INC., Brooklyn, N. Y. Filed Dec. 5, 1940. Serial No. 438,524.

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FOR CHILDREN'S UNDERWEAR AND HOSIERY.
Claims use since Sept. 1, 1940.

395,186. (CLASS 17. TOBACCO PRODUCTS.) LARUS & BROTHER COMPANY, INC., Richmond, Va. Filed Jan. 22, 1941. Serial No. 439,872.

Dunbar

FOR TOBACCO AND TOBACCO PRODUCTS—NAMELY, SMOKING TOBACCO, CHEWING TOBACCO, CIGARS, AND CIGARETTES.
Claims use since Jan. 10, 1941.

395,187. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF.) THE DIVERSEY CORPORATION, Chicago, Ill. Filed Jan. 24, 1941. Serial No. 439,930.

DIVERSEY

SHURSPRAY

FOR DEVICE FOR SPRAYING DISINFECTING SOLUTIONS ON FOOD-HANDLING EQUIPMENT FOR DESTROYING BACTERIA.
Claims use since Jan. 3, 1941.

395,188. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE CLEVELAND CO-OPERATIVE STOVE COMPANY, Cleveland, Ohio. Filed Feb. 5, 1941. Serial No. 440,314.

SAFE-TEE-KEE

FOR KEY OPERATED GAS RANGE COCKS.
Claims use since Jan. 16, 1941.

395,189. (CLASS 39. CLOTHING.) W. T. GRANT COMPANY, New York, N. Y. Filed Feb. 14, 1941. Serial No. 440,650.

Wear-tred

FOR HOSIERY.
Claims use since Dec. 6, 1940.

395,190. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NAT COHN, doing business as Modern Amusement Sales Company, New York, N. Y. Filed Feb. 25, 1941. Serial No. 441,068.

MODERN
AMUSEMENT
SALES
COMPANY

FOR COIN OPERATED VENDING AND AMUSEMENT DEVICES.
Claims use since Dec. 15, 1936.

395,191. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROSENBERG BROS. & CO., San Francisco, Calif. Filed Mar. 8, 1941. Serial No. 441,374.

FRUIT CAKE



FOR DRIED CURRANTS.
Claims use since Oct. 16, 1940.

395,192. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NATIONAL SILVER COMPANY, New York, N. Y. Filed Mar. 12, 1941. Serial No. 441,483.

Perf-tone

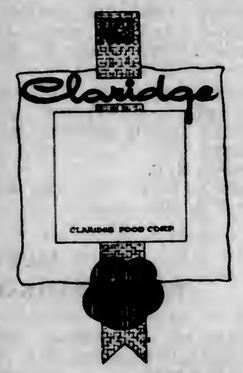
FOR TABLE CUTLERY MADE OF BASE METAL WITH HANDLES MADE OF A PLASTIC MATERIAL.
Claims use since Jan. 31, 1941.

395,193. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE AMERICAN BRAKE SHOE AND FOUNDRY COMPANY, New York, N. Y. Filed Apr. 4, 1941. Serial No. 442,250.



The drawing is lined for gold and orange.
FOR AIR COMPRESSORS, MOTOR DRIVEN AIR COMPRESSOR UNITS, AIR CONTROLLED AUTOMOBILE LIFTS, AIR COMPRESSOR UNLOADERS, SPRAY GUNS, AND PARTS THEREOF.
Claims use since Jan. 31, 1941.

395,194. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLARIDGE FOOD CORP., New York, N. Y. Filed Apr. 14, 1941. Serial No. 442,521.



FOR CANNED AND BOTTLED POTATO SALAD, RICE WITH MUSHROOMS, MACARONI SALAD, PRUNES, MACARONI A LA CREOLE, PICKLES, PICKLED BEETS, AND PRUNE JUICE.
Claims use since Feb. 24, 1941.

395,195. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DOUGLAS OIL & REFINING CO., Los Angeles, Calif. Filed Apr. 14, 1941. Serial No. 442,553.



DOUGLAS

The word "Douglas" is disclaimed apart from the mark.
FOR ELECTRIC MOTORS AND STORAGE BATTERIES.
Claims use since Feb. 12, 1941.

395,196. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE STANDARD OIL COMPANY, Cleveland, Ohio. Filed May 16, 1941. Serial No. 443,647.

So-clear

FOR CHEMICAL SOLUTIONS, CHEMICALLY TREATED TOWELS AND CONTAINERS FOR SAME SEPARATELY AND IN COMBINATIONS FOR CLEANING AND POLISHING SMOOTH SURFACES, GLASS, AND THE LIKE.
Claims use since Mar. 25, 1941.

395,197. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE DUNHAM COMPANY, Berea, Ohio. Filed May 24, 1941. Serial No. 443,876.

ShurCut

FOR DISC HARROWS, ROTARY HOES, MULCHERS, PULVERIZERS, SOIL PACKERS, AND CULTIVATORS.
Claims use since Feb. 22, 1940.

395,198. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RADIOMARINE CORPORATION OF AMERICA, New York, N. Y. Filed May 27, 1941. Serial No. 443,985.

RADIOMARINE

FOR RADIO TRANSMITTERS, RADIO RECEIVERS, DIRECTION FINDERS AND AUTOMATIC RADIO ALARMS AND PARTS THEREOF.
Claims use since Mar. 19, 1941.

395,199. (CLASS 39. CLOTHING.) SARFERT HOSIERY MILLS, INC., Philadelphia, Pa. Filed May 31, 1941. Serial No. 444,097.

Hi-Fashion

FOR MEN'S, WOMEN'S, AND CHILDREN'S HOSE.
Claims use since August, 1940.

395,200. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) WORTHINGTON SEED CO., Los Angeles, Calif. Filed June 28, 1941. Serial No. 444,956.

"A-1"

FOR GARDEN VEGETABLE SEEDS—NAMELY, ASPARAGUS, BEETS, BEANS, CARROTS, CABBAGE, CAULIFLOWER, CELERY, CORN, CUCUMBER, EGGPLANT, ENDIVE, KOHL RABI, LEEK, LETTUCE, MELON (WATERMELON AND CANTALOUP), MUSTARD, OKRA, ONION, PARSLEY, PARSNIP, PEAS, PEPPERS, PUMPKIN, RADISHES, RHUBARB, SALSIFI, SPINACH, SQUASH, TOMATO AND TURNIP.
Claims use since Sept. 15, 1925.

395,201. (CLASS 39. CLOTHING.) ABRAHAM & STRAUS, INC., Brooklyn, N. Y. Filed Sept. 2, 1941. Serial No. 446,715.



FOR WOMEN'S AND MISSES' DRESSES, APRONS, AND HOUSE COATS.
Claims use since Feb. 14, 1941.

395,202. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) FLEMING AND SONS, INC., Dallas, Tex. Filed Oct. 24, 1941. Serial No. 448,078.

MATCH-TAKS

FOR TACKS.
Claims use since Feb. 18, 1941.

395,203. (CLASS 39. CLOTHING.) FRIEDMAN-MARKS CLOTHING COMPANY, INC., Richmond, Va. Filed Dec. 4, 1941. Serial No. 449,176.

AMERICAN TWIST

FOR MEN'S SUITS AND COATS.
Claims use since August, 1939.

395,204. (CLASS 39. CLOTHING.) FRIEDMAN-MARKS CLOTHING COMPANY, INC., Richmond, Va. Filed Dec. 4, 1941. Serial No. 449,178.

Rockingham

FOR MEN'S SUITS AND COATS.
Claims use since November, 1926.

395,205. (CLASS 39. CLOTHING.) LOUIS BROD, doing business as L. Brod & Company, Philadelphia, Pa. Filed Dec. 17, 1941. Serial No. 449,541.

CRUISE'N'SPORTS

FOR WOMEN'S AND CHILDREN'S BLOUSES, SLACKS, PLAY SUITS, AND SLACK SUITS.
Claims use since Feb. 15, 1941.

395,206. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SPECIAL FOODS CO., Chicago, Ill. Filed Feb. 10, 1942. Serial No. 450,886.

Mrs. Japp's

FOR POTATO CHIPS, POPPED AND SEASONED POPCORN, AND CARAMEL COATED POPPED POPCORN.
Claims use since June 1, 1936.

395,207. (CLASS 39. CLOTHING.) CLUETT, PEABODY & Co., INC., Troy, N. Y. Filed Feb. 16, 1942. Serial No. 451,003.

NILE

FOR COLLARS.
Claims use since December, 1930.

395,208. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PENNSYLVANIA SAW CORPORATION, York, Pa. Filed Feb. 19, 1942. Serial No. 451,088.

TRIPLE TEST

FOR SAWS OF ALL KINDS—NAMELY HAND SAWS, CROSS-CUT SAWS, PANEL SAWS, MITRE SAWS, COMPASS SAWS, CABINET SETS, RIP SAWS, AND BUCK SAWS.
Claims use since Aug. 24, 1935.

395,209. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. A. FOLGER & COMPANY, Kansas City, Mo. Filed Mar. 2, 1942. Serial No. 451,341.

FOLGER'S

Mountain Grown

FOR COFFEE.
Claims use since Nov. 30, 1929.

TRADE-MARK REGISTRATIONS RENEWED

151,439. **WADE & BUTCHER.** CERTAIN CUTLERY AND EDGE TOOLS. Registered February 7, 1922. W. & S. BUTCHER LIMITED, SHEFFIELD, ENGLAND. Renewed February 7, 1942, to Durham Duplex Razor Company, Mystic, Conn., a corporation of New York, assignee.

154,169. **ELEGANS.** A NONALCOHOLIC VEHICLE OR BASE FOR USE BY PHARMACISTS IN COMPOUNDING PRESCRIPTIONS. Registered April 4, 1922. UNITED DRUG COMPANY. Renewed April 4, 1942, to United Drug Company, Boston, Mass., a corporation of Delaware, assignee.

154,243. **JUNKET.** FOOD COLORS FOR DESSERTS, CANDIES, ICE CREAM, CAKES, GELATINE, JELLIES, ICINGS, AND GOODS OF A SIMILAR NATURE. Registered April 11, 1922. CHR. HANSEN'S LABORATORY, INC., Little Falls, N. Y., a corporation of New York. Renewed April 11, 1942.

154,244. **HANSEN'S DANISH.** BUTTER COLOR, CHEESE COLOR, AND RENNET EXTRACT. Registered April 11, 1922. CHR. HANSEN'S LABORATORY, INC., Little Falls, N. Y., a corporation of New York. Renewed April 11, 1942.

154,380. **SANOZYM.** A DENTIFRICE IN THE FORM OF A PASTE, A WASH, OR A POWDER. Registered April 11, 1922. SANOZYM, INCORPORATED. Renewed April 11, 1942, to Fairchild Bros. & Foster, New York, N. Y., a corporation of New York, assignee.

154,388. **SKINNER'S SATIN.** SILK AND SILK AND COTTON FABRICS IN THE PIECE. Registered April 11, 1922. WILLIAM SKINNER & SONS, New York, N. Y., and Holyoke, Mass., a common-law trust of Massachusetts. Renewed April 11, 1942.

154,513. **REPRESENTATION OF THE "JUNKET" GIRL.** BUTTERMILK TABLETS. Registered April 18, 1922. CHR. HANSEN'S LABORATORY, INC., Little Falls, N. Y., a corporation of New York. Renewed April 18, 1942.

155,461. **JASPER.** CERTAIN NAMED OFFICE FURNITURE. Registered May 30, 1922. THE JASPER DESK COMPANY, Jasper, Ind., a corporation of Indiana. Renewed May 30, 1942.

156,204. **FAWNKREPE.** WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE COMPRISED IN WHOLE OR IN PART OF SILK. Registered June 20, 1922. CHENEY BROTHERS, South Manchester, Conn. Renewed June 20, 1942, to Cheney Brothers, South Manchester, Conn., and New York, N. Y., a corporation of Connecticut.

156,205. **TOPPING TWILL.** WOVEN, KNITTED, NETTED, AND PILE FABRICS IN THE PIECE COMPRISED IN WHOLE OR IN PART OF SILK. Registered June 20, 1922. CHENEY BROTHERS, South Manchester, Conn. Renewed June 20, 1942, to Cheney Brothers, South Manchester, Conn., and New York, N. Y., a corporation of Connecticut.

156,389. **BEE HIVE.** SEEDS—NAMELY, GRASS, FIELD, ALFALFA, CLOVER, TIMOTHY, BLUE GRASS, RED TOP, MILLET, AND SUDAN GRASS. Registered June 20, 1922. J. G. PEPPARD SEED CO. Renewed June 20, 1942, to Peppard Seed Company, Kansas City, Mo., a corporation of Missouri, assignee.

156,421. **SKINNER'S SATIN.** SILKS IN THE PIECE. Registered June 20, 1922. WILLIAM SKINNER & SONS, New York, N. Y., and Holyoke, Mass., a common-law trust of Massachusetts. Renewed June 20, 1942.

157,527. **ROLRITE.** SHADE ROLLERS. Registered August 8, 1922. INTERSTATE SHADE CLOTH CO., Hoboken, N. J., a corporation of New Jersey. Renewed August 8, 1942.

157,695. **"AVONA".** HOOKS AND EYES. Registered August 15, 1922. JORDAN MARSH COMPANY, Boston, Mass., a corporation of Massachusetts. Renewed August 15, 1942.

157,962. **GOLD SEAL.** CHAMPAGNES AND WINE. Registered August 22, 1922. GOLD SEAL PRODUCTS COMPANY, INC. Renewed August 22, 1942, to Urbana Wine Company, Inc., Urbana, N. Y., a corporation of New York, by changes of name.

158,290. **BIG BEN BAR.** CHOCOLATE BARS. Registered August 29, 1922. RUECKHEIM BROS. & ECKSTEIN, Chicago, Ill., assignor to The Cracker Jack Co. Renewed August 29, 1942, to The Cracker Jack Co., Chicago, Ill., a corporation of Illinois, assignee.

158,640. **PONGETEX.** COTTON PIECE GOODS. Registered September 12, 1922. COHN-HALL-MARX CO., New York, N. Y., a corporation of New York. Renewed September 12, 1942.

158,843. **RADIO.** PLAYING CARDS. Registered September 12, 1922. THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio, assignor to Standard Playing Card Company. Renewed September 12, 1942, to The United States Playing Card Company, East Norwood, Cincinnati, Ohio, a corporation of Ohio, assignee by mesne assignments.

158,892. **MBC.** PRINTED BOOKS. Registered September 19, 1922. MATTHEW BENDER & COMPANY, INCORPORATED, Albany and New York, N. Y. Renewed September 19, 1942, to Matthew Bender & Company, Incorporated, Albany, N. Y., a corporation of New York.

158,984. **HOOSIER.** DESKS AND OFFICE TABLES. Registered September 19, 1922. HOOSIER DESK COMPANY, Jasper, Ind., a corporation of Indiana. Renewed September 19, 1942.

159,063. **CHEMCRAFT.** CHEMICALS AS LISTED IN THE ACCOMPANYING CATALOGUE. Registered September 19, 1922. THE PORTER CHEMICAL COMPANY, Hagerstown, Md., a corporation of Maryland. Renewed September 19, 1942.

159,273. **CELEX.** OPHTHALMIC LENSES. Registered September 26, 1922. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y., a corporation of New York. Renewed September 26, 1942.

159,310. **APRIL SHOWERS.** PERFUMES, TOILET WATERS, FACE POWDERS, TOILET POWDERS, SACHETS, ROUGES, BRILLIANTINE, AND FACE CREAM. Registered September 26, 1922. CHERAMY, INC., New York, N. Y., a corporation of New York. Renewed September 26, 1942.

159,354. **FRONTIER.** NONFERROUS METAL CASTINGS. Registered September 26, 1922. FRONTIER BRONZE CORPORATION, Niagara Falls, N. Y., a corporation of New York. Renewed September 26, 1942.

159,408. **RELIANCE.** SODA FOUNTAINS, CARBONATORS, AND SODA-FOUNTAIN MACHINERY. Registered September 26, 1922. LANGLEY & MICHAELS CO., San Francisco, Calif. Renewed September 26, 1942, to McKesson & Robbins, Incorporated, New York, N. Y., a corporation of Maryland, assignee by mesne assignments.

159,409. **ALK-ASEPTINE.** ANTISEPTIC AND GERMICIDAL SOLUTION. Registered September 26, 1922. LANGLEY & MICHAELS CO., San Francisco, Calif. Renewed September 26, 1942, to McKesson & Robbins, Incorporated, New York, N. Y., a corporation of Maryland, assignee by mesne assignments.

159,431. **MARVELLUSTRE.** COVER PAPER. Registered September 26, 1922. THE MARVELLUM COMPANY, Holyoke, Mass., a corporation of Massachusetts. Renewed September 26, 1942.

159,436. **RADITE.** NONRUSTING AND CORROSION-RESISTING ALLOY AND CASTINGS MADE THEREFROM. Registered September 26, 1922. METAL AND ALLOY SPECIALTIES COMPANY, INC., Buffalo, N. Y., a corporation of New York. Renewed September 26, 1942.

159,445. **MORRELL'S PRIDE.** MARMALADE, PLUM PUDDING, DAIRY PRODUCTS, MEATS, AND PORK AND BEANS. Registered September 26, 1922. JOHN MORRELL & CO., Ottumwa, Iowa, a corporation of Maine. Renewed September 26, 1942.

159,537. **CREST LIGHT.** WAX AND CHALK CRAYONS. Registered September 26, 1922. STANDARD CRAYON MANUFACTURING CO. Renewed September 26, 1942, to Standard Crayon Manufacturing Corporation, Danvers, Mass., a corporation of Massachusetts, by change of name.

159,538. **MURILLO.** WAX AND CHALK CRAYONS. Registered September 26, 1922. STANDARD CRAYON MANUFACTURING CO. Renewed September 26, 1942, to Standard Crayon Manufacturing Corporation, Danvers, Mass., a corporation of Massachusetts, by change of name.

159,539. **CRAYEL.** WAX AND CHALK CRAYONS. Registered September 26, 1922. STANDARD CRAYON MANUFACTURING CO. Renewed September 26, 1942, to Standard Crayon Manufacturing Corporation, Danvers, Mass., a corporation of Massachusetts, by change of name.

159,540. **OMEGA.** WAX AND CHALK CRAYONS. Registered September 26, 1922. STANDARD CRAYON MANUFACTURING CO. Renewed September 26, 1942, to Standard Crayon Manufacturing Corporation, Danvers, Mass., a corporation of Massachusetts, by change of name.

159,576. **ARKADY.** BREAD. Registered September 26, 1922. WARD BAKING COMPANY. Renewed September 26, 1942, to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware, assignee.

REISSUES

MAY 12, 1942

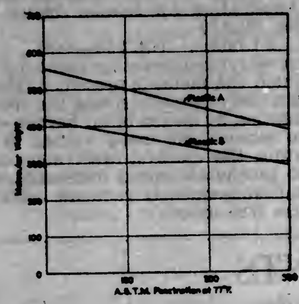
22,693

TRANSLUCENT PETROLEUM PLASTIC

Alvin P. Anderson, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Original No. 2,201,496, dated May 21, 1940, Serial No. 184,132, January 21, 1938. Application for reissue November 12, 1940, Serial No. 365,395

11 Claims. (Cl. 260—28)



1. A natural petroleum plastic, translucent in thin layers, substantially free from asphaltenes, substantially solid at atmospheric temperature, substantially completely soluble in 86° A. P. I. naphtha, more than 75% insoluble in an equal volume of acetone at 77° F., and having a temperature susceptibility lower than that of asphaltic resins.

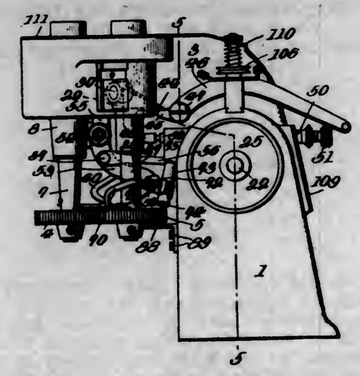
22,694

SEWING MACHINE

Norman V. Christensen, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois

Original No. 1,995,692, dated March 19, 1935, Serial No. 549,787, filed July 9, 1931. Application for reissue filed June 21, 1941, Serial No. 399,218

45 Claims. (Cl. 112—16)



3. In a sewing machine, the combination of a standard, a bracket member extending laterally therefrom, a feeding mechanism supported by said bracket member and including vertically arranged shafts carried by and depending from said bracket member, cooperating feed wheels rigidly attached to the lower ends of said shafts, means for actuating said feed wheels, said actuating means for the feed wheels including a main shaft, and devices operated thereby for imparting an intermittent movement to the feed wheels, said shaft and operating devices being located above the horizontal plane containing the feed wheels.

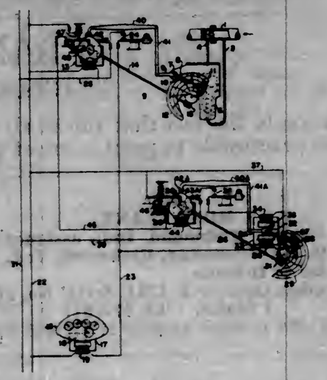
22,695

INDICATING AND POSITIONING SYSTEM

Walter E. Ducringer, Shaker Heights, Ohio, assignor to Bailey Meter Company, a corporation of Delaware

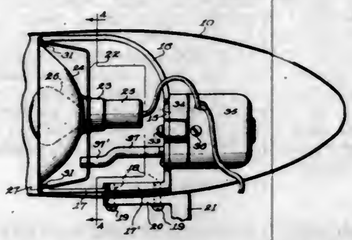
Original No. 2,046,676, dated July 7, 1936, Serial No. 573,933, November 9, 1931. Application for reissue March 26, 1938, Serial No. 196,561

39 Claims. (Cl. 177—351)



1. A positioning system comprising in combination, an electric circuit; a motor in said circuit having two similar and opposed windings, whereby when either winding is energized, the motor rotates in a given direction, and when both windings are energized, the motor is not urged to rotation; a first member; a time actuated element for continually moving said first member; an element responsive to the value of a variable for variably moving said first member; means operatively connecting said first member with the time actuated element and with the element responsive to the value of a variable, whereby the first member is jointly positioned by said two elements; means actuated by said first member to open the circuit to the first of said windings to permit the second then energized winding to rotate the motor in one direction; a second member; a second time actuated element for continually moving said second member; means connecting said second member with the second time actuated element and with the motor, whereby the second member is jointly positioned by said second time actuated element and by said motor; and means actuated by said second member to open the circuit to the second of said windings to permit the then energized first winding to rotate the motor in the opposite direction.

22,096
OSCILLATING LAMP
Charles S. Monroe, Chicago, Ill.
Original No. 2,133,106, dated October 11, 1938, Serial No. 159,926, August 19, 1937. Application for reissue September 30, 1939, Serial No. 297,393
9 Claims. (Cl. 240—48)



9. In an automotive vehicle lamp, a lamp casing, means for stationarily mounting the said lamp casing on an automotive vehicle, a light source and reflector in the said lamp casing, and said reflector including a front portion, means for pivotally mounting the said light source and the said reflector in the said lamp casing for oscillating movement as a unit therein relative to the said lamp casing and in a horizontal plane only and on a fixed vertical axis intersecting the said front portion of said reflector, and means including a motor in the said lamp casing for oscillating the said light source and the said reflector as a unit therein relative to the said lamp casing and in the said horizontal plane only.

22,097
TREATMENT OF CATALYSTS
Bryan D. Wells, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Original No. 2,225,811, dated December 24, 1940, Serial No. 238,065, October 31, 1938. Application for reissue August 4, 1941, Serial No. 405,410
8 Claims. (Cl. 252—243)

1. A process for regenerating spent metal catalysts in which the metal is present in the sulfide form, which comprises subjecting the spent catalyst to oxidation by means of an oxygen-containing gas to convert the metal sulfide to sulfate, then treating the catalyst with aqueous alkali solution to precipitate metal hydroxide from the sulfate, and subsequently reducing with hydrogen to form free metal.

PLANT PATENTS

GRANTED MAY 12, 1942

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

515
ROSE PLANT
Roy L. Byrum, Richmond, Ind., assignor to Joseph H. Hill Company, Richmond, Ind., a corporation of Indiana
Application October 3, 1941, Serial No. 413,553
1 Claim. (Cl. 47—61)

A new and distinct variety of Hybrid Tea rose plant, characterized as to novelty by its great productivity, by the delicate color combination, large size and number of petals of the flowers, and its exceptional value for both summer and winter forcing, substantially as shown and described.

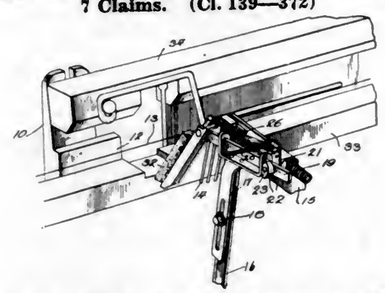
PATENTS

GRANTED MAY 12, 1942

2,282,303
PIGMENT TREATMENT
John Owen Morrison, Chatham, and Ben H. Perkins, Jersey City, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 1, 1940, Serial No. 338,381
11 Claims. (Cl. 106—304)

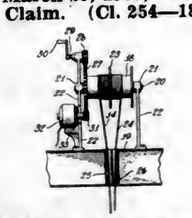
3. A process for the production of improved pigments which comprises incorporating into an aqueous pigment paste a petroleum nitrogen base and a water-immiscible volatile solvent boiling between about 60° C. and about 250° C., mixing, and thereafter drying the pigment.

2,282,304
FILLING CLAMP
Benjamin W. Brown, Hapeville, Ga.
Application March 6, 1941, Serial No. 382,075
7 Claims. (Cl. 139—372)



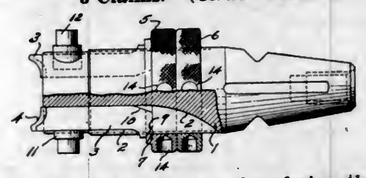
1. In a loom, a lay having a raceway, a thread extending along the raceway, a filling fork slide and fork thereon, an oscillating lever for operating the filling fork slide through the filling fork upon weft failure, and a filling clamp mounted on said lever, said clamp coacting with the rear wall of the raceway to hold said thread taut.

2,282,305
AERIAL ADVERTISING APPARATUS
Jacob Bruno, New York, N. Y.
Application March 29, 1939, Serial No. 264,822
1 Claim. (Cl. 254—186)



In apparatus in which an article is to be suspended from an airplane in motion, a cable for supporting the article, a cable for releasing the article, a windlass upon which the cables are wound at respective ends, a pair of supporting standards for the windlass, a driving shaft disposed axially in the windlass journalled in bearings on the standards, a driving gear on one end of the driving shaft, a stub shaft journalled in a bearing at the upper end of one of the standards, a pinion on one end of the stub shaft meshing with the upper side of the driving gear, a crank handle on the other end of the stub shaft, a bracket carried by the last named standard below the windlass, an electric motor on the bracket, a pinion on the shaft of the motor meshing with the underside of the driving gear, and a dog carried by the last named standard engaging the driving pinion of the stub shaft, release of the dog permitting the crank handle to be turned to permit the weight of the article unreeling the cables until the article is suspended at a predetermined distance, the operator's grasp upon the crank handle offering resistance to the paying off of the cables so that they will not be payed off too quickly, the dog when in operative position holding the windlass stationary and permitting the cables to be reeled upon the windlass by rotating the crank handle to shorten the cables and adjust the position of the article and permitting the cables to be quickly reeled upon the windlass by the motor when desired.

2,282,306
INSERTABLE BLADE CUTTER
Ralph E. Cross, Detroit, Mich.
Application March 25, 1940, Serial No. 325,676
3 Claims. (Cl. 29—105)

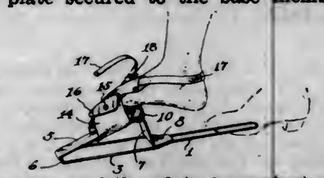


3. A rotatable cutter for chamfering the ends of gear teeth comprising a cutter body having a forward end portion at substantially a right angle to the axis of rotation, said body having a series of oppositely disposed slots in its outer surface each in a plane cutting the axis of rotation, a cutter blade positioned in each of said slots with the cutting end thereof projecting forwardly of said forward end portion of the body, said means comprising oppositely disposed screws and threaded apertures provided therefor transversely of the body, a shoe non-rotatably mounted on the screw and engageable by the head thereof to maintain the same in contact with the respective cutter blade, said body having a recess opening through the surface of the body for each of said shoes of a depth greater than the width of the shoe and at the rear end comprising a feed ring having a beveled edge for engaging a beveled edge provided at the rear end of each of the cutters to position to effect the chamfering of a gear tooth without contact of the tooth with the said end portion of the body, means for securing each of the cutters to he body, and means for simultaneously adjusting the cutters in the respective slots to compensate for shortening in length of the cutter blade due to wear and re-grinding.

2,282,307
FOOT MANIPULATOR
Daniel W. Davis, Beaumont, Tex.
Application February 21, 1941, Serial No. 380,059
5 Claims. (Cl. 128—69)

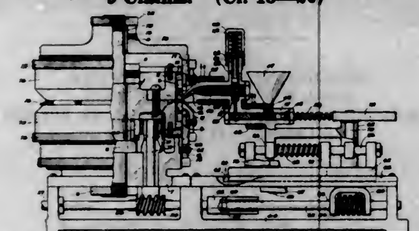
3. A foot manipulating or adjusting device

comprising a base member formed with a rearwardly extending handle in the plane of the base member, an upwardly and rearwardly inclined plate secured to the base member with



the lower end of the plate in contact with the base member, and a resilient presser member mounted on the plate at the top of the inclined portion.

2,282,308
MACHINE FOR INJECTION MOLDING OF THE INTERLOCKING ELEMENTS OF SLIDE FASTENERS
Gustaf Dahlin, St. Catharines, Ontario, Canada, assignor to Lightning Fastener Company, Limited, St. Catharines, Ontario, Canada
Application May 4, 1939, Serial No. 271,789
9 Claims. (Cl. 18—26)



6. A machine for injection molding of interlocking elements for slide fasteners directly onto a tape comprising a base, a drum journalled therein and provided with a plurality of radial slots equidistantly spaced around its periphery, a pair of die members slidably disposed in each slot, a pair of cam surfaces rigidly mounted on the base and extending around the greater portion of the drum periphery for closing the pairs of die members and maintaining them closed over the greater part of a revolution of the drum, a second pair of cam surfaces rigidly mounted on the base adapted to engage the pairs of die members over the lesser portion of the drum periphery for opening the members, means for continuously rotating the drum, means for feeding a tape continuously between the pairs of die members when in the open position to be clamped therebetween in the closed position, a molding material supply chamber mounted on the base and means for conducting molding material under pressure from the supply chamber to each pair of closed die members as the closed members pass the chamber.

2,282,309
COMPOSITE SHUTTLE
John A. D'Arcy, Lawrence, Mass., assignor to U. S. Bobbin & Shuttle Company, Providence, R. I., a corporation of Rhode Island
Application April 11, 1941, Serial No. 388,110
9 Claims. (Cl. 139—223)

7. The combination in a self-threading shuttle for weaving; of a body in which is a bobbin recess which connects through a passage with a shuttle eye in the side, vertical thread bearing pins at the outer front and back of the shuttle eye, a plate recess in the eye side adjoining the back side of the shuttle eye, and a thread groove extending from in front of the shuttle eye substantially the length of the shuttle; with a reinforcing plate, of a different material from the



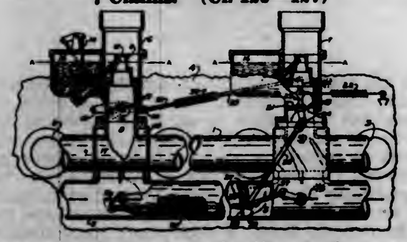
shuttle body, sunk in the plate recess in the body and having a thread groove which is in line with the thread groove in the shuttle body, the bottom front edge of its groove being inside the outside face of the back thread bearing pin.

2,282,310
COMBINED PORTABLE VISE AND VISE MOUNTING
William H. Dunn, Floral Park, N. Y.
Application November 22, 1940, Serial No. 366,768
2 Claims. (Cl. 81—41)



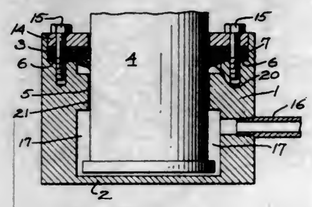
1. A portable combined vise and vise mounting consisting of a C-shaped frame, one arm thereof constituting a fixed laterally extended jaw and having a work-engaging face on its inner side at the end thereof, the other arm of the frame having an internal screw at its end alined with the work-engaging face of the jaw, a screw engaged therethrough in line with the said work-engaging face and having on its end a work-engaging head opposed to said jaw, and a floating jaw between said head and said face of the jaw first named, said floating jaw having work-engaging faces on opposite sides opposed to the screw head and said first named jaw respectively, and a swinging link connecting between the bight of the frame and the floating jaw, whereby work and support elements may be simultaneously engaged between the screw and first jaw at respective sides of the floating jaw, the floating jaw being movable on the link to clear the screw head in open position of the vise and to lie within the frame clear of work.

2,282,311
INTERNAL COMBUSTION ENGINE
George R. Ericson, Kirkwood, and Irven E. Coffey, Normandy, Mo.
Application November 19, 1940, Serial No. 366,272
7 Claims. (Cl. 123—127)



1. In an internal combustion engine, an intake manifold, a plurality of mixture supply devices connected to said manifold, a manually operated throttle for one of said mixture supply devices, an auxiliary throttle for the other of said mixture supply devices, an exhaust conduit and means operated by the flow of exhaust gas through said exhaust conduit for controlling said auxiliary throttle.

2,282,312
PACKING
John H. Halstead, San Jose, Calif.
Application June 24, 1940, Serial No. 342,106
2 Claims. (Cl. 286—26)



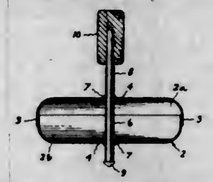
1. Means for packing a relatively movable cylindrical piston member and a cylinder member assembly consisting of a shoulder on one of said members extending closely adjacent and spaced from the bearing surface on the other member, said shoulder having an annular channel therein open to said bearing surface, a single normally planar packing sheet having an aperture therein, said aperture having one edge diameter fitting said bearing surface and the other edge diameter smaller than the diameter of said bearing surface, both of said edges fitting said bearing surface when said packing sheet is temporarily coned with said smaller diameter adjacent said channel with the contiguous surface in contact with the remainder of said shoulder, and an annular retaining ring bolted to said shoulder and in contact with the surface of said sheet contiguous to the larger diameter edge thereof for forcing said coned sheet back to planar shape whereby all of said sheet is planar except a distorted portion adjacent said smaller diameter edge, said distorted portion being free in said channel.

2,282,313
SIRUP INJECTOR FOR SEMISOLID FROZEN MASS
Abram E. Hershey, Harrisburg, Pa., assignor to Hershey Creamery Company, Harrisburg, Pa., a corporation of Delaware
Application May 14, 1941, Serial No. 393,438
4 Claims. (Cl. 107—1)



1. In a sirup injector for semi-solid frozen mass, an injector casing having ice cream passages and a central sirup container, and said sirup container being provided with horizontal tubes extending from its sides and with vertical tubes extending from its bottom discharging into said ice cream passages.

2,282,314
SPINNING TOP
William James Houlihan, Windsor, Melbourne, Victoria, Australia
Application November 20, 1940, Serial No. 366,466
In Australia November 21, 1939
1 Claim. (Cl. 46—64)



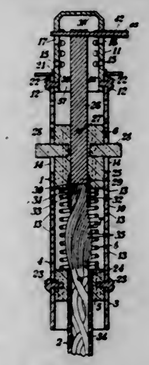
A spinning top, comprising a hollow body comprising two members of identical dished form with their marginal edges interfitting and secured together, the upper and lower surfaces of the body being parallel and substantially of the full diameter of the body, the upper and lower surfaces of the body being each formed with an opening, the openings being aligned with the vertical axis of the body with their margins bent outwardly and extended beyond the respective outer surfaces of the hollow body to provide retaining and steadying walls integral with the body, a tubular section passing through said openings and projecting above and below the body, the tubular section snugly fitting within and fixed and materially steadied against lateral play or slipping by the outturned walls of the openings, a spindle snugly though rotatably fitting in said tubular section and extending above and below the same, the lower end of the spindle having a conical terminal bearing against which the lower end of the tubular section seats the terminal providing a spinning point for the top, and a handle secured to the upper end of the spindle the handle bearing on the upper end of the tubular section, the spindle being retained in position in the tubular section by the handle and the conical terminal bearing.

2,282,315
CATAPULT
Lytle S. Adams, Irwin, Pa., assignor to All American Aviation, Inc., a corporation of Delaware
Application November 12, 1938, Serial No. 240,201
11 Claims. (Cl. 124—17)



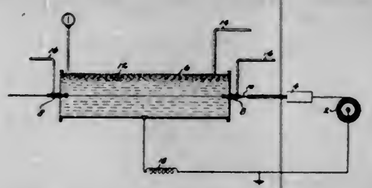
1. A catapult having a rigid frame comprising side members extending from end to end thereof, a base having relatively movable parts underlying said side members, a vertically adjustable mounting for one end of the frame and a pivot for the other end both supported on said base, said adjustable mounting comprising two supporting rods, one on each side of the frame, each hinged to said base at one end and provided with an adjustable clamp for engaging the adjacent frame side member, whereby the angle of inclination of the frame to the horizontal can be readily changed as desired by changing the position of said clamps with respect to said rods irrespective of the position of said base.

2,282,316
ELECTRODE HOLDER AND CABLE UNIT
Samuel Albert, Philadelphia, Pa.
Application October 31, 1939, Serial No. 302,101
16 Claims. (Cl. 219—8)



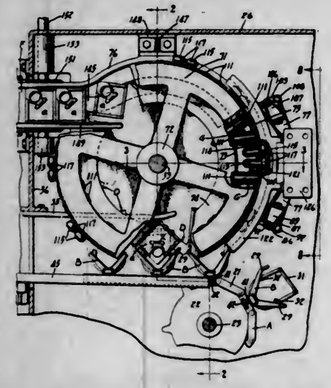
1. An electrode holder and cable unit comprising a casing; an electric cable anchored in the lower part of said casing; a clamping bar mounted for sliding movement in said casing above said electric cable; flexible electrical conducting means positioned within said casing intermediate said clamping bar and said electric cable and attached at one of its ends to said clamping bar and at the other of its ends to said electric cable; and resilient means positioned in said casing for normally urging said clamping bar away from said electric cable.

2,282,317
METHOD OF AND APPARATUS FOR THE ELECTROSTATIC CURING OF HEAT CURABLE MATERIALS, WHILE UNDER PRESSURE
Charles E. Bennett, Ridgewood, N. J., assignor to The Okonite Company, Passaic, N. J., a corporation of New Jersey
Application December 31, 1940, Serial No. 372,694
4 Claims. (Cl. 219—47)



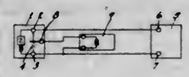
1. The method of heat curing materials while maintaining the same under pressure, which method comprises subjecting the material to the influence of an electrostatic field while the material is being moved through a pressure chamber containing a pressure fluid in which the material is submerged and while preventing loss of pressure fluid from the chamber past the material as the same passes into and out of the chamber by maintaining the chamber at the points of entrance and exit of the material in communication with an outside source of fluid supply at a pressure which is as high as that of the first mentioned pressure fluid and directed inwardly of the chamber.

2,282,318
FIBER CAN TREATING MACHINE
Llewellyn Biggs, Leonia, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application November 20, 1940, Serial No. 366,471
6 Claims. (Cl. 93—36)



1. In a machine for handling a fiber container having a closure element hingedly mounted on the top wall thereof and which is in an inserted position in an opening in said wall, the combination of mechanism for advancing a said container along a predetermined path of travel through the machine, means for supporting said container as it is so advanced, and means operative during the advancement of the container by said advancing mechanism for expanding beneath the container top wall a restricted portion of that part of the closure wall which extends into the opening of said container to temporarily retain said closure element in closed position on the container, said container supporting means having a spring pressed mounting to compensate for fiber containers of slightly varying heights and to prevent crushing and damage thereto during the expanding operation.

2,282,319
LEAKAGE REDUCING MEANS
Walter J. Brown, Cleveland Heights, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio
Application February 28, 1941, Serial No. 381,159
24 Claims. (Cl. 179—1)

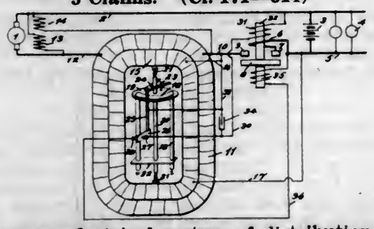


1. In combination, a high impedance signal generator adapted to supply a signal potential and having a signal current leakage path which conducts signal currents and thereby tends to reduce the signal available from said generator; and means for reducing the loss of signal resulting from said leakage, said means comprising an amplifier having an input circuit and an output circuit, said amplifier having its input circuit connected to the signal output of said generator and having at least a part of the output signal of its output circuit applied in opposed phase relationship to a part of said leakage path to reduce the flow of generator signal current through said leakage path.

2,282,320
PREPARATION OF HIGHER MOLECULAR WEIGHT ALIPHATIC CARBOXYLIC ACYL HALIDES
Frank J. Cahn, Chicago, Ill., assignor to The Emulsol Corporation, Chicago, Ill., a corporation of Illinois
No Drawing. Application August 4, 1940, Serial No. 351,441
8 Claims. (Cl. 260—408)

1. A method of producing high purity acyl halides from aliphatic carboxylic acids containing at least 8 carbon atoms which comprises reacting said acids with a phosphorous trihalide in a molal ratio of at least about ⅓ mol of phosphorous trihalide for each mol of carboxylic acid whereby hydrohalic acid is evolved, said reaction being conducted at a temperature not exceeding approximately 100 degrees C., substantially completely drawing off from the reaction mass the layer of phosphorous acid which forms in the reaction, and subjecting the remaining acyl halide mixture to a temperature in excess of about 100 degrees C. to drive off unreacted phosphorous trihalide whereby a high purity acyl halide is produced.

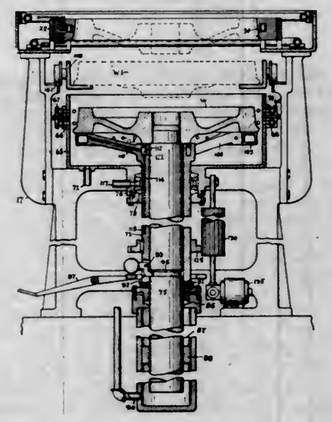
2,282,321
ELECTRIC SYSTEM
John L. Creveling, Tucson, Ariz., assignor to The Safety Car Heating and Lighting Company, Inc., a corporation of Delaware
Application August 29, 1938, Serial No. 227,317
5 Claims. (Cl. 171—314)



5. In an electrical system of distribution on a railway car of the class wherein an axle-driven generator charges a storage battery and the connection with the storage battery is made by the closing of a main switch and when the current output of said generator becomes excessive a generator control coil carrying the generator current becomes effective to reduce the current through the generator field winding, the combination with said generator control coil of a control unit to control the opening and closing of said main switch, said control unit being mounted substantially within the magnetic field of said generator control coil and comprising a potential coil connected in parallel with said main switch and movable means maintaining a permanent magnetic field pivotally mounted to be acted upon by the magnetic field set up by said generator control coil and said potential coil, said control unit having a switching element which is mechanically related to be operated by the swinging of said movable means.

2,282,322
APPARATUS FOR ELECTRIC HEATING
Francis S. Denneen, Cleveland, and William C. Dunn, Shaker Heights, Ohio, assignors to The Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio
Application November 10, 1938, Serial No. 239,812
3 Claims. (Cl. 219—13)

1. In apparatus for inductively heating the rail engaging portion of a car wheel or the like, an inductor comprising a ring-like element having a plurality of magnetically permeable T-shaped projections extending interiorly thereof, each projection having a base and an unsupported top, the bases connecting the unsupported tops to the element, the unsupported tops being arcuate to substantially form a ring within the first named ring for accommodating the rail engaging portion of said car wheel, each of the unsupported tops of the T-shaped projections having an opening therethrough longitudinally thereof, electrically insulating means interposed between adjacent ends of adjacent openings for electrically insulating said unsupported tops from each other, means for supplying coolant to one of said openings and to circulate the same through other of said openings and then withdrawing the same, a plurality of coils, each coil surrounding a base of a T-shaped projection, and means for supplying periodically varying current to said coils, said means being connected to cause current in adjacent coils to flow in opposite directions so that adjacent unsupported tops are of opposite polarity.



2. In apparatus for inductively heating a car wheel or the like, a horizontally disposed ring-like inductor member shaped to correspond with and lie in heating relation to the rail-engaging portion of a car wheel, conveyor means for positioning a wheel in axial alignment with said inductor member, means reciprocable along the axis of said inductor member for engaging the hub portion of said wheel and moving the same into heating relation with said inductor member, a cooling ring adapted to engage an annular surface of said wheel, means to reciprocate said ring along the axis of said inductor member and means operative at a predetermined point in movement of said first-named reciprocable means to engage said cooling ring to move said first-named reciprocable means and said ring as a unit.

2,282,323
AZO COMPOUNDS AND MATERIAL COLORED THEREWITH
Joseph B. Dickey and James G. McNally, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application September 18, 1940, Serial No. 357,290
17 Claims. (Cl. 260—157)

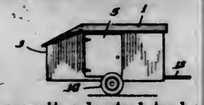
1. The azo dye compounds selected from the

group consisting of compounds having the general formulae:

$$R—N=N—R_1 \text{ and } R—N=N—R_2$$

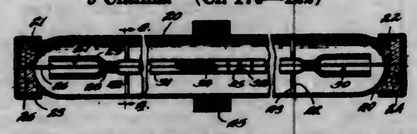
wherein R represents the residue of a member selected from the group consisting of an aryl nucleus of the benzene series and an aryl nucleus of the naphthalene series, R_1 represents the residue of a benzodihydroindazole coupling component joined to the azo bond through the carbon atom in its 5-position and R_2 represents the residue of an α-naphthodihydroindazole coupling component joined to the azo bond through the carbon atom in its 5-position.

2,282,324
GARAGE CONSTRUCTION
Ronald Everitt, Aurora, Ill., assignor to Ronald Everitt and Vivian Everitt, Aurora, Ill., as joint tenants
Application January 3, 1939, Serial No. 249,057
3 Claims. (Cl. 20—1.13)



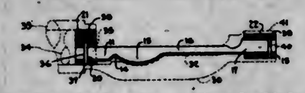
1. A garage unit adapted to be transported to various locations and having a side wall provided with a door that opens outwardly permitting the vehicle door to swing outwardly through the doorway of said garage door, a front passageway for the passage of the vehicle, a rigid guide means forming a frame portion across the bottom face of said unit and engaging the wheels of the vehicle to prevent injury to the side of the vehicle and the side wall of the garage, said rigid guide means extending through said front doorway a substantial distance in advance thereof and engaging all of the wheels of the vehicle when the latter is fully within the garage to prevent lateral displacement of the vehicle therein, said forwardly extending portions of the guide having means extending therebetween adapted to act as a draft connection when the device is transported, and means for attaching wheels to the unit.

2,282,325
ILLUMINATING MEANS
Hirsch Epstein, Chicago, Ill.
Application July 29, 1938, Serial No. 222,013
9 Claims. (Cl. 176—122)



1. An electric glow discharge device comprising a light-pervious tube of insulation closed at both ends and having an electrode adjacent each end, wire means extending from electrode to electrode within the tube and almost interconnecting the electrodes, there being a gap in the connection which gap is so small as to break down and establish a metallic connection from electrode to electrode upon application of an excessive voltage across the device and thus short circuiting the same, and means for preventing glow discharge along the surface of the wire and at the outer surface of the connected electrode, said means comprising a covering of insulation over said wire and over the adjacent portion of the electrodes and covering substantially the entire outer surfaces of the electrodes.

2,282,326
CORING DEVICE
Mark Ewald, Olympia, Wash., assignor to Special Equipment Company, Portland, Oreg., a corporation of Oregon
Original application February 15, 1934, Serial No. 711,355. Divided and this application October 5, 1934, Serial No. 746,952. Renewed December 22, 1937
19 Claims. (Cl. 146—52)

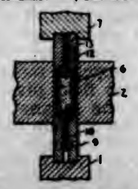


1. A coring device for coring half fruit curved throughout the major portion of its length to an elongated shape semicylindrical in cross-section, a portion of the length intermediate the ends of the device being of increased radii, each end having integral extensions curved to a shape substantially circular in cross-section to provide substantially circular mountings for bearings for rotation of the device, at least one of the edges of the semi-cylindrical portion throughout its length being sharpened and the entire outer surface of the semicylindrical portion and corresponding to the length of the cutting edge being formed as a true semi-circle.

2,282,327
PYROLYSIS OF DIPHENYL-ETHANE COMPOUNDS
Robert R. Dreisbach, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application August 29, 1939, Serial No. 292,456
7 Claims. (Cl. 260—668)

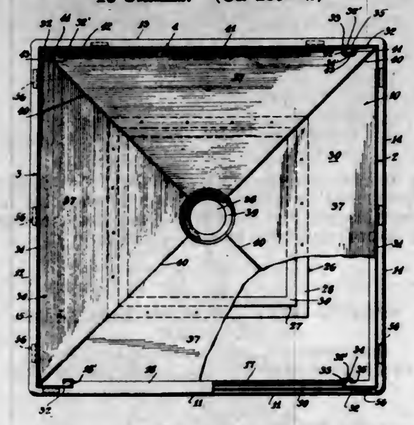
1. The method of converting diphenyl ethane compounds into mononuclear aromatic compounds which comprises heating a compound selected from the class consisting of the diphenyl ethanes and their nuclear lower alkyl and halogen derivatives at a temperature between 200° C. and 350° C. in the presence of a metal halide catalyst of the Friedel-Crafts type.

2,282,328
METHOD FOR MAKING RESISTORS
George G. Herrick and Hugh N. Veley, St. Marys, Pa., assignors to Speer Resistor Corporation, a corporation of Pennsylvania
Application December 5, 1939, Serial No. 307,555
3 Claims. (Cl. 18—59)



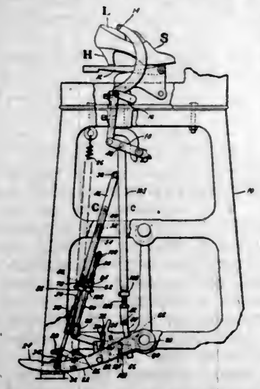
1. The process of making a resistor with a protecting shell which comprises in lightly compressing plastic insulation material into the form of a hollow cylinder, filling the bore in said cylinder with resistance material, inserting terminals in the ends of the resistance material, compressing the cylinder over the ends of the resistance material and around the terminals and continuing the compressing of the cylinder and the contained resistance material until both are compacted to the desired density.

2,282,329
SHOWER CABINET
Carl E. T. Johnson, Jamestown, N. Y., assignor to Jamestown Steel Partitions, Inc., Jamestown, N. Y., a corporation of New York
Application June 19, 1940, Serial No. 341,367
15 Claims. (Cl. 189—2)



1. A shower cabinet comprising, a receptor unit, a pair of side wall sections and a rear wall section supported by the receptor unit, said side wall sections having duplicate front and rear panel portions terminating in vertical tubular formations, said rear wall section having U-shaped formations along its vertical edges overlapping the adjacent tubular formations of said side wall sections, said U-shaped formations having resilient lips frictionally gripping said tubular formations retaining said side and rear wall sections in rigid erect assembled position.

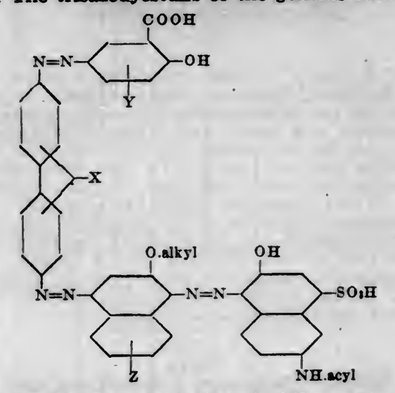
2,282,330
ACTUATING MECHANISM FOR WORK CLAMPS
Frank Kennison, Beverly, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application February 21, 1940, Serial No. 320,162
21 Claims. (Cl. 12—123)



1. In a machine having a movable work-clamping member, an actuating lever for the clamping member movable by the operator, and devices each having constant connection to the clamping member from points upon the actuating lever which are respectively at different distances from the fulcrum of said lever.

2,282,331
TRISAZO DYESTUFFS, THEIR COPPER COMPOUNDS AND THEIR MANUFACTURE
Adolf Krebser, Riehen, near Basel, and Werner Bossard, Basel, Switzerland, assignors to the firm J. R. Geigy A. G., Basel, Switzerland
No Drawing. Application July 12, 1940, Serial No. 345,240. In Switzerland July 20, 1939
9 Claims. (Cl. 260—172)

5. The trisazodyestuffs of the general formula



wherein X means a substituent of the group consisting of CH_3, Cl and SO_3H, Y means a substituent of the group consisting of CH_3 and H and Z means a substituent of the group consisting of H and SO_3H, dyeing when coppered cotton green to olive shades of good fastness to light.

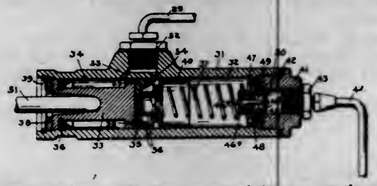
2,282,332
WASHING AND CLEANING MACHINE
George Kuhn, Takoma Park, Md., assignor to George Kuhn, Silver Spring, Md., Oscar S. Wilkinson, Washington, D. C., and Lee Allan Swem, New York, N. Y., as trustees
Application October 17, 1936, Serial No. 106,080
7 Claims. (Cl. 68—131)



1. In apparatus for treating articles with fluid comprising a tub having a reciprocating element therein carried by an operating shaft and means for reciprocating the shaft and the element, elastic biasing means comprising a spiral spring surrounding and acting upon said shaft and tend-

ing to prevent shifting of position of one or more parts of said reciprocating means to thereby prevent knocking.

2,282,333
HYDRAULIC BRAKE
Malcolm L. Masteller, Miami, Fla.
Application September 14, 1940, Serial No. 356,808
1 Claim. (Cl. 60—54.6)



In a master cylinder comprising a casing and a chamber therein, a piston slidable in said chamber for creating pressure therein, means for actuating said piston, and a port in said casing adapted for connecting the pressure lines of a braking system; a control for the movement of liquid under pressure through said port, comprising in combination a check-valve permitting a free outward flow from said chamber, a heavier loaded check-valve permitting a restricted return flow to said chamber, and a passage bypassing said valves and permitting an eventual and normal equilibrium on both sides of said valves; substantially as described.

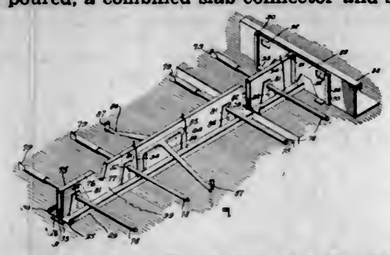
2,282,334
VISOR
Gilbert S. Macvaugh, United States Navy
Application May 20, 1941, Serial No. 394,283
11 Claims. (Cl. 2—9)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A full face-protecting wind visor comprising an open vision-permitting forward edge, forwardly extending side walls, and a face-encompassing annulus having a face-contacting rear edge, said side walls connecting said forward edge to said rear edge and providing, with said rear edge, a snug current-preventing fit with the face.

2,282,335
EXPANSION JOINT CONSTRUCTION
Clyde L. Methven, St. Paul, Minn.
Original application May 10, 1933, Serial No. 670,314. Divided and this application June 7, 1937, Serial No. 146,877
16 Claims. (Cl. 94—18)

16. In apparatus for concrete road building or the like, a removable member defining a space between adjacent slabs while the concrete is being poured, a combined slab connector and sealing member for the bottom of said slot detachably carried by and initially positioned by said removable member, and said slab connector having lateral concrete engaging portions.

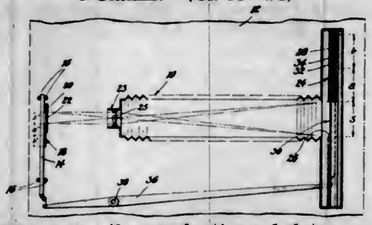


2,282,336
SPRING-WIRE EARRING, RING, AND THE LIKE
Maximilian C. Meyer, Brooklyn, N. Y.
Application May 10, 1940, Serial No. 334,322
6 Claims. (Cl. 63—14)



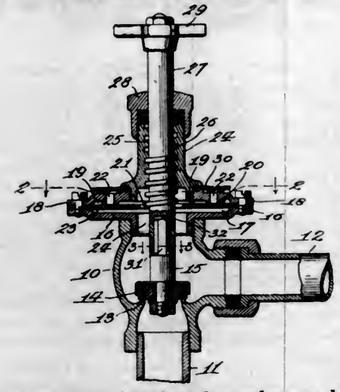
1. An earring comprising a spring wire, at least one extremity of said spring wire being formed into a hook, a pearl-like ornamental object mounted on said hook, a divergent opening in said pearl-like ornamental object, said hook being locked in said divergent opening.

2,282,337
APPARATUS FOR THE PRODUCTION OF DOT-COMPOSED OR SCREENED NEGATIVES
Ludwig Mies and Walter Peterhans, Chicago, Ill.
Application January 24, 1939, Serial No. 252,654
In Germany January 25, 1938
5 Claims. (Cl. 88—24)



1. Means for the production of dot composed negatives by the reproduction of an original through a half tone screen on a negative, comprising means for moving a half tone screen of predetermined size and a negative of larger size than that of the half tone screen relative to each other in a straight line motion so as to place consecutive portions of the negative behind said half tone screen, interconnecting means for shifting said original relative to said negative to place consecutive portions of said original in proper position for reproduction on said consecutive portions of said negative, means for masking the portions of the negative not placed behind the half tone screen, and means for exposing said consecutive portions of said negative to corresponding consecutive portions of the original in timed relationship to the relative movement of said half tone screen and negative so as to prepare on said negative a continuously coherent reproduction of the original composed of a plurality of separate reproductions of consecutive portions of the original and being of larger size than that of the half tone screen.

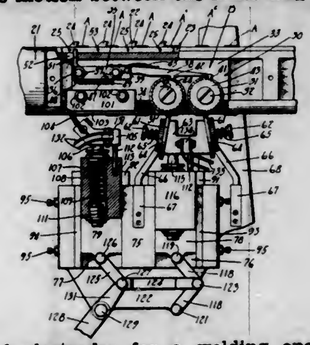
2,282,338
ANTISIPHONIC VALVE
George E. Moody, Los Angeles, Calif.
Application April 17, 1940, Serial No. 330,147
4 Claims. (Cl. 277—55)



1. In a vacuum breaker for valves, a housing provided with an inlet and an outlet, a valve for controlling the flow of liquid through said housing, a stem for actuating said valve, a housing comprising a pair of plates, one arranged above the other on the upper portion of said valve housing, said second mentioned housing having a shallow chamber that communicates with the chamber in the valve housing, there being an air inlet opening in the upper portion of said second mentioned housing, a bonnet detachably secured to the upper one of the plates forming said housing, a valve stem passing axially through said bonnet and having threaded engagement therewith, the lower end of which valve stem is secured to said valve and a handle on the upper end of said valve stem and a member arranged for operation within the chamber within said second mentioned housing and adapted to close said air inlet openings under pressure of the liquid passing through said valve housing.

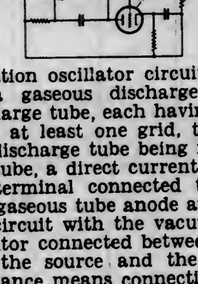
2,282,339
ELECTRIC WELDING
John H. Murch, East Orange, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application April 20, 1940, Serial No. 330,762
8 Claims. (Cl. 219—6)

1. In a machine for simultaneously welding separate can bodies and the like, the combination of a horn for supporting a plurality of can bodies to be welded, each of said bodies having contacting areas constituting body side seams, means for moving said cam bodies in a continuous procession along said horn with their side seams following a predetermined path of travel, a welding device comprising a double pair of electrodes arranged inside and outside of said horn respectively and in the path of travel of the said side seams, and means for producing relative motion between the inner and the outer



of said electrodes for a welding operation to simultaneously tack weld spaced seam areas of separate can bodies.

2,282,340
RELAXATION OSCILLATOR
Hanswerner Pieplow, Berlin, Germany, assignor to General Electric Company, a corporation of New York
Application June 10, 1939, Serial No. 278,546
In Germany June 23, 1938
4 Claims. (Cl. 250—36)

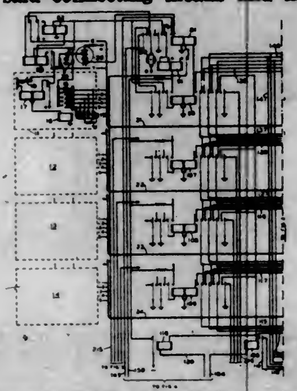


1. A relaxation oscillator circuit arrangement comprising a gaseous discharge tube and a vacuum discharge tube, each having an anode, a cathode, and at least one grid, the cathode of the gaseous discharge tube being in circuit with the vacuum tube, a direct current source having its positive terminal connected through a resistor to the gaseous tube anode and its negative terminal in circuit with the vacuum tube cathode, a capacitor connected between the positive terminal of the source and the vacuum tube anode, impedance means connecting the grid of the gaseous tube to the negative terminal of said source, and means for controlling the potential of the grid of said vacuum tube in accordance with the potential across said impedance means.

2,282,341
MULTICHANNEL TELEGRAPH SYSTEM
Oscar E. Pierson, Brooklyn, and Myron D. Adams and William Stanley Westerman Edgar, Jr., New York, N. Y., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application December 8, 1939, Serial No. 308,226
28 Claims. (Cl. 178—52)

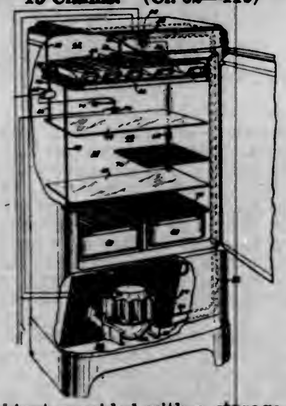
1. A multiplex telegraph system comprising a lane of traffic, a plurality of communication subchannels, each including transmitting and receiving apparatus, means for connecting subchannels to the lane of traffic for operation and for disconnecting the same therefrom, a multiple-contact control device controlling a plurality of circuits, means controlled thereby to

transmit switching signals, each consisting of a code combination of impulses, and means including said connecting means and means for



transmitting switching signals for controlling the operative or inoperative condition of a group of subchannels in response to the transmission of a single code combination.

2,282,342.
REFRIGERATING APPARATUS
Paul H. Preble, Concordia, Kans., assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application January 26, 1940, Serial No. 315,827
15 Claims. (Cl. 62—116)

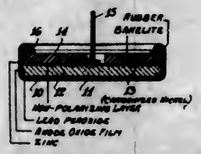


1. A cabinet provided with a storage compartment, a movable partition within said storage compartment dividing said compartment into sub-compartments, a door for closing one of said sub-compartments, said door being provided with extensible means providing a greater door size to accommodate the enlarged sub-compartment when the partition is moved.

2,282,343
LUBRICATING COMPOSITION
Carl F. Prutton, Cleveland Heights, Ohio, assignor, by mesne assignments, to The Lubri-Zol Development Corporation, Cleveland, Ohio, a corporation of Delaware
No Drawing. Application March 1, 1939, Serial No. 259,230
16 Claims. (Cl. 252—54)

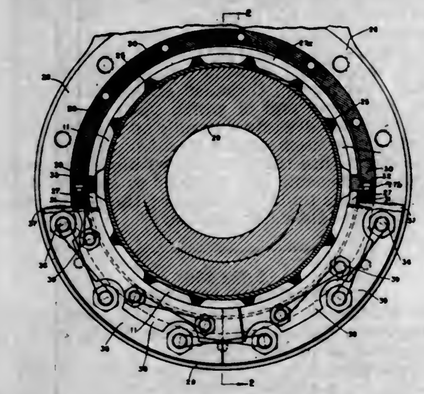
1. A lubricating composition comprising at least 80% refined mineral lubricating oil with the properties of such composition affecting its use as a lubricant improved by incorporating therein a total of from about .1% to about 20%, based on the amount of mineral lubricating oil of both an oil-soluble halogen-bearing oxygen-free organic compound and an oil-soluble organic oxygen compound, said compounds being of the type which will not substantially evaporate from such lubricating composition at ordinary temperatures.

2,282,344
RESISTANCE DEVICE
Samuel Ruben, New Rochelle, N. Y.
Application December 15, 1939, Serial No. 309,331
8 Claims. (Cl. 201—63)



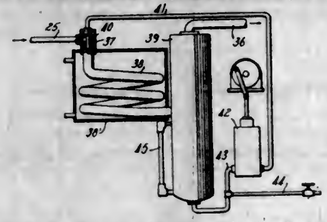
1. An electric device with negative resistance voltage characteristics comprising an electrode of lead peroxide, a non-polarizing contact engaging one surface thereof and a layer of zinc having an anodically formed oxide film thereon engaging the opposite surface thereof, said zinc and said non-polarizing contact forming the terminals of said device.

2,282,345
BEARING STRUCTURE
Robert J. Ruths, Baltimore, Md.
Application May 16, 1941, Serial No. 393,747
8 Claims. (Cl. 308—238)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



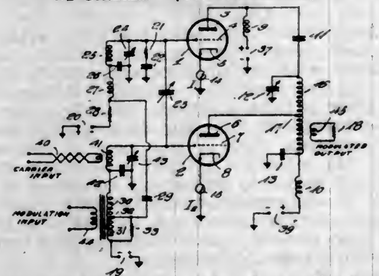
1. A shaft bearing comprising a cylindrical housing having an internal abutment bar extending longitudinally thereof and an annular bearing element disposed within said housing and having a metallic outer base portion and a shaft-engaging tread portion of resilient anti-friction material united therewith, said bearing element being formed of separate arcuate segments having ends disposed in wedging contact with said abutment bar.

2,282,346
APPARATUS FOR CHARGING ACETYLENE CYLINDERS
Stephan Stark, Grunwald, near Munich, Bavaria, Germany
Application August 31, 1938, Serial No. 227,704
In Germany September 2, 1937
4 Claims. (Cl. 226—20)



1. Apparatus for charging cylinders for dissolved acetylene which comprises means for supplying compressed acetylene at a pressure exceeding that of the cylinders to be charged; a vaporizer having a passage for conducting the compressed acetylene therethrough, said passage having relatively narrow successive cross sectional areas; means for injecting acetone into said passage in a finely divided state; a cylinder charging rack; means for conducting vapor-bearing acetylene from said vaporizer to said rack; and means for preventing acetone in the liquid state from flowing to the cylinders.

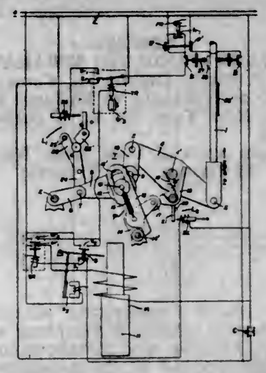
2,282,347
MODULATION SYSTEM
Robert E. Taylor, Los Angeles, Calif.
Application May 20, 1940, Serial No. 336,256
14 Claims. (Cl. 179—171.5)



6. In combination, a pair of non-linear electron tube amplifiers, means for supplying carrier energy to said amplifiers in substantially parallel paths, means for supplying modulation energy to said amplifiers for modulating said carrier energy in both said amplifiers, an output circuit for combining the modulated carrier energy from both said amplifiers, and means for selectively regulating the operation of each of said amplifiers for limiting the modulation in one of said amplifiers below the level of unmodulated carrier energy therein substantially to the negative peaks of the modulation energy and the modulation in the other of said amplifiers substantially to the positive peaks of the modulation energy intermittently as they occur.

2,282,348
HIGH SPEED CIRCUIT BREAKER RECLOSING MECHANISM
Carl Thumim, Yeadon, Pa., assignor to General Electric Company, a corporation of New York
Application July 18, 1939, Serial No. 285,091
12 Claims. (Cl. 175—294)

1. A high speed automatic circuit breaker reclosing mechanism comprising a source of motive power, a trip-free linkage interconnecting said source of power and circuit breaker for clos-



ing said circuit breaker, a latch operatively related to said linkage for causing trip-free opening thereof, and a second latch for holding said breaker in closed circuit position.

2,282,349
FOUNDRY MOLD COATING
Wilbur G. Wellings and Donald S. Hake, Niagara Falls, N. Y., assignors to The Titanium Alloy Manufacturing Company, New York, N. Y., a corporation of Maine
No Drawing. Application December 2, 1940, Serial No. 368,228
5 Claims. (Cl. 22—189)

1. A coating for foundry molds and cores comprising 100 parts of finely-divided zircon and 1 to 50 parts of finely-divided carbon.

2,282,350
ELECTROLYTE FOR AND METHOD OF POLISHING METAL SURFACES ANODICALLY
Charles L. Faust, Columbus, Ohio, assignor to Battelle Memorial Institute, Columbus, Ohio, a corporation of Ohio
No Drawing. Application August 18, 1939, Serial No. 290,787
10 Claims. (Cl. 204—140)

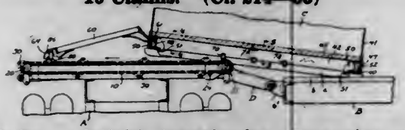
1. An electrolyte for use in the anodic polishing of metals, comprising an aqueous solution of sulphuric acid and ortho-arsenic acid, the combined acid concentration being at least 50% by weight and the balance being largely water.

2,282,351
ELECTROLYTE FOR AND METHOD OF POLISHING METAL SURFACES ANODICALLY
Charles L. Faust, Columbus, Ohio, assignor to Battelle Memorial Institute, Columbus, Ohio, a corporation of Ohio
No Drawing. Application October 5, 1940, Serial No. 359,936
8 Claims. (Cl. 204—140)

8. The method of anodically polishing metals, which comprises making a metal the anode in an aqueous acid electrolyte comprising from 5 to 93% arsenic acid, from 0 to 85% of sulfuric acid and a significant amount of an acid selected from the group consisting of phosphoric acid and chromic acid and mixtures thereof, said electrolyte having a combined acid concentration of at least 50% by weight, the balance being largely

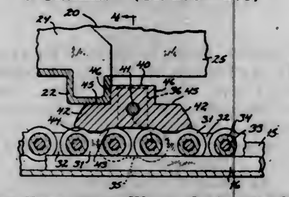
water and passing an electric current therethrough of a sufficient density and for a sufficient period of time to effect the desired polish.

2,282,352
FREIGHT HANDLING APPARATUS
Benjamin F. Fitch, Greenwich, Conn., assignor, by mesne assignments, to National Fitch Corporation, New York, N. Y., a corporation of Delaware
Application April 12, 1940, Serial No. 329,377
15 Claims. (Cl. 214—83)



6. In a freight transferring apparatus, the combination of a vehicle, a container adapted to be mounted thereon and transported thereby, said container having on its underside a downward projection adjacent each edge and one or more projections intermediately located in alignment with the two edge projections, propelling mechanism on the vehicle, means for directly connecting the propelling mechanism with any of the downward projections on the underside of the container, and a push-and-pull bar locked at one end to the container against separation in any direction and having the other end in engagement with the propelling mechanism.

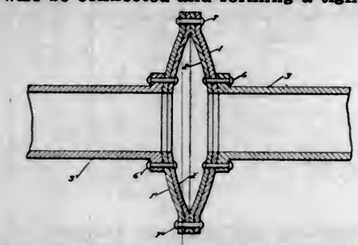
2,282,353
CONVEYER MECHANISM
Benjamin F. Fitch, Greenwich, Conn., assignor to National Fitch Corporation, New York, N. Y., a corporation of Delaware
Application August 2, 1940, Serial No. 349,700
9 Claims. (Cl. 198—173)



1. An endless propelling chain made of two strands of overlapping links with pivot pins connecting the links of each strand together and joining the two strands, two opposed chain links of the two strands having extensions at substantially right angles to the length of the links, blocks between said extensions secured thereto, said blocks extending in each direction from their secured region to provide wings adapted to engage the shoulders of the four links of the two chain strands which are pivoted to the two links which carry the block.

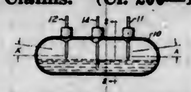
2,282,354
EXPANSION COMPENSATING MEANS FOR STEAM PIPING
Ross Gunn, Washington, D. C.
Application September 28, 1940, Serial No. 358,788
8 Claims. (Cl. 285—90)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. Means for compensating for the expansion and contraction of piping due to heat, comprising a bi-metallic element, said element comprising two facing plies of material having different coefficients of expansion bonded together in such a manner as to be under a minimum of stress due to said different coefficients of expansion at the normal working temperature of said piping, said element being secured to an end of said piping and to the structure to which said end would otherwise be connected and forming a tight con-



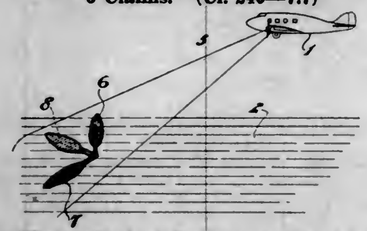
nection therebetween, the orientation, materials, shape and dimensions of said element being so selected that, within the normal service range of heating and cooling of said piping the portion of said element secured to said piping will at all times occupy substantially the same position in space that it would occupy if it were free of said piping.

2,282,355
ELECTRIC SWITCH
John A. Hannum, Detroit, Mich.
Application April 14, 1939, Serial No. 267,831
6 Claims. (Cl. 200—152)



1. In a liquid conductor contactor switch of the dual circuit type, an hermetically sealed container with current conducting liquid therein, a pair of electrodes extending through said container, a third electrode extending through said container to complete an electrical circuit with alternate ones of said pair of electrodes when said container is tilted in alternate directions and means to adjust said container by rotation of said container about an axis transverse to said alternate directions to vary the liquid level with respect to said electrodes and thereby control the switch sensitivity.

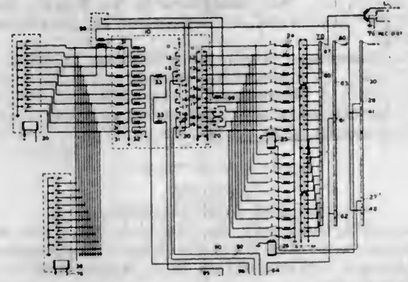
2,282,356
METHOD AND APPARATUS FOR LIGHTING AREAS, PARTICULARLY APPLICABLE TO FACILITATING NIGHT LANDINGS BY AIRCRAFT
Jacob Adolf Hellmuth, Bloemfontein, Orange Free State, Union of South Africa
Application October 31, 1939, Serial No. 302,128
In Great Britain November 2, 1938
6 Claims. (Cl. 240—7.7)



1. The method of facilitating the night land-

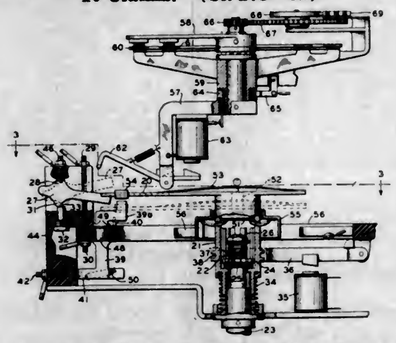
ing of flying aircraft consisting of convergingly and obliquely downwardly projecting concentrated light beams from laterally spaced light sources located at an altitude for the illumination of an object on the ground from different frontal positions, and intermittently interrupting at least one of said light sources thereby to render said object distinguishable from the surrounding terrain by contrast with its periodically appearing shadow.

2,282,357
SIGNALING SYSTEM
Philo Holcomb, Jr., Flushing, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application January 30, 1937, Serial No. 123,266
41 Claims. (Cl. 178—52)



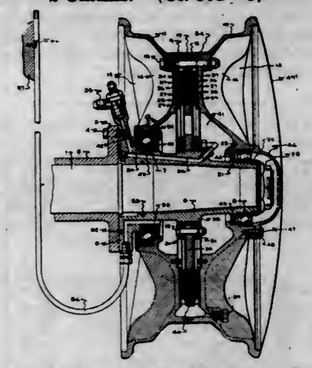
1. A telegraph system comprising a lane of traffic, a plurality of telegraph channels, means for alternating the channels operating over said lane, said means comprising a series of movable members one individual to each channel, a common actuating device for said members and means to shift said device from one member to another each of said members having two operative positions corresponding to "channel in" and "channel out" respectively, and means including said actuating device for moving each of said members from one position to the other.

2,282,358
TELEGRAPH SYSTEM
Philo Holcomb, Jr., Great Neck, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application December 7, 1939, Serial No. 308,052
10 Claims. (Cl. 178—52)



1. An expanding channel telegraph system comprising a plurality of communication channels and means whereby at least a part of the transmitting time of an idle channel is utilized by another channel, a lane of traffic shared by operative channels, means for integrating the message characters sent on each channel, and means for weighting the integrated characters in accordance with the busy condition of the lane of traffic.

2,282,359
AIRPLANE WHEEL
Charles Hollerith, Jackson, Mich., assignor to Hayes Industries, Inc., Jackson, Mich., a corporation of Michigan
Application August 8, 1940, Serial No. 351,852
2 Claims. (Cl. 301—5)



1. In an airplane, a wheel having a hollow interior housing brake structure or the like, means sealing said interior against the entrance of water, and a vent comprising conduit means providing a free communication between the interior of said wheel and a position on said airplane above the level reached by water under normal conditions of use for maintaining the pressure in said interior equal to that outside of the airplane.

2,282,360
LOCK WASHER FOR RETAINING PINS IN COUPLINGS
Walter E. Horrocks, Lakewood, Ohio
Application April 23, 1940, Serial No. 331,197
21 Claims. (Cl. 85—5)



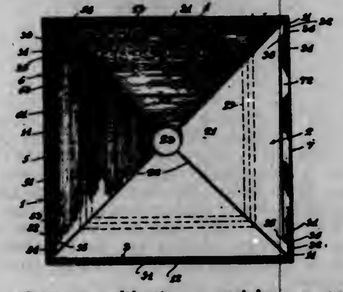
20. A lock washer comprising a free body, laterally disposed complementary resilient elements having an unobstructed gap therebetween, fixed to the said body, and holding means provided at the termini of the resilient elements to couple retaining elements therewith against longitudinal displacement.

2,282,361
INSULATING AND REFRACTORY PLASTIC
Douglas A. Howell, Peter S. Gilchrist, William W. Ingle, and Leo H. Crosson, Charlotte, N. C., assignors to Charlotte Chemical Laboratories, Inc., Charlotte, N. C., a corporation of North Carolina
No Drawing. Application July 1, 1939, Serial No. 282,440
4 Claims. (Cl. 106—58)

4. A refractory heat insulating composition in

the nature of a heavy thick cohesive mass and containing a preponderant proportion of a granular hydrous rock-forming aluminum silicate, a substantially smaller portion of an acid orthosilicate which is characterized by colloidal size particles, a liquid adhesive binder, and just sufficient water to moisten the composition and render it workable and applicable as a thick cohesive mass, the varying particle size of said granular aluminum silicate being such that approximately 12% to 42% may be retained on a #20 U. S. Standard Screen and approximately 4% to 11% may be retained on a #10 U. S. Standard Screen, the amount of water and varying particle size of the aluminum silicate being so controlled in the composition that substantially no dimensional changes will take place therein upon application of heat.

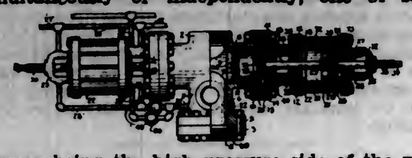
2,282,362
SHOWER CABINET
Carl E. T. Johnson, Jamestown, N. Y., assignor to Jamestown Steel Partitions, Inc., Jamestown, N. Y., a corporation of New York
Application December 16, 1939, Serial No. 309,677
13 Claims. (Cl. 189—2)



6. A shower cabinet comprising a receptor having a bottom wall and four identically shaped upstanding walls defining a low enclosure of square shape in plan, a pair of side wall sections provided with identical front and rear panel portions each having formations at its margins of identical shape and length, a rear wall section having identical formations at its opposite margins each interchangeably engageable throughout its entire length with the formations at the margins of said panel portions, one of said side wall sections having a shower device receiving opening therein, and means mounting the wall sections on the receptor for interchangeable engagement of any section with any of said four upstanding walls, said means comprising portions formed identically throughout the entire extent of the lower edge of each section between margins thereof complemental to said four upstanding walls and each interfitting interchangeably with any of said walls whereby said sections may be arranged on the receptor to receive water supplied from any of the four sides of the cabinet.

2,282,363
BLOWOUT PREVENTER
Walter E. King, Houston, Tex., assignor to J. S. Abercrombie, Houston, Tex.
Application June 17, 1932, Serial No. 617,837
2 Claims. (Cl. 137—139)

1. A blowout preventer including a housing, rams slidable transversely thereof, pistons connected to said rams, a chamber in which each of said pistons is mounted, two sources of fluid pressure connected to be applied behind said rams or on either side of said pistons either simultaneously or independently, one of said

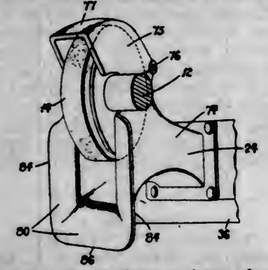


sources being the high pressure side of the well casing, and manual means also arranged to move said rams.

2,282,364
STARCH ADHESIVE COMPOSITION
Walter G. Kunse and Raymond B. Evans, Catonsville, Md., assignors to Le Page's Inc., Gloucester, Mass., a corporation of Massachusetts
No Drawing. Application October 23, 1940, Serial No. 362,419
9 Claims. (Cl. 106—210)

1. An adhesive composition comprising starch and dicyandiamide.

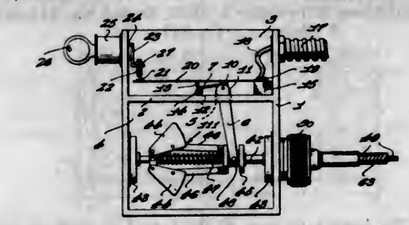
2,282,365
SHOE MACHINERY
Lambert S. Linderoth, Jr., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application May 5, 1939, Serial No. 271,965
6 Claims. (Cl. 51—273)



1. In combination with a rotary abrading tool, a dust hood having lateral walls which are spaced closely to the end faces of said tool with allowance for reasonable clearance, said hood having also a bottom wall spaced from the periphery of said tool to provide a passage for incoming air, said walls being arranged to form a mouth into which said tool extends, and said hood being provided at its mouth with an outwardly flared extension of said walls terminating in an outwardly turned flange which extends continuously about the lower portion of the rotary tool and about said air inlet passage.

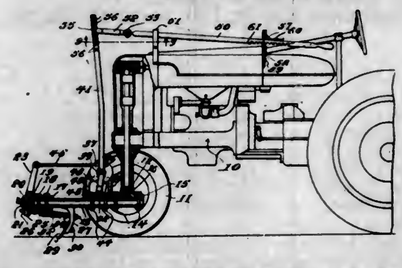
2,282,366
SPEED-CONTROLLING DEVICE FOR MOTOR VEHICLES
Oliph M. Knight, Chicago, Ill., and Warren C. Le Mire, Miami, Fla.
Application April 23, 1940, Serial No. 331,236
6 Claims. (Cl. 200—80)

3. In a speed-controlling device for motor vehicles, a casing, a partition dividing said casing into upper and lower chambers, a block of insulation in the upper chamber, a strip of resilient metal in the upper chamber constituting a movable contact, a terminal screw securing one end of said contact strip to the block of insulation, a stationary contact in the upper chamber over the free end of the movable contact, a lever extending through said partition and at its upper end being pivotally mounted in the upper chamber, a rocker plate carried by the upper end of



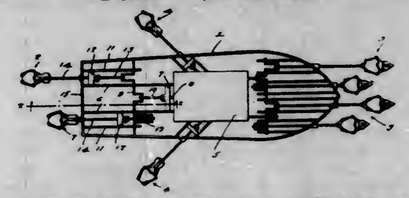
said lever, a strip of insulation carried by said rocker plate and extending transversely thereof under the movable contact, a governor in the lower chamber operatively engaging the lower end of said lever, and means for transmitting rotary motion to said governor in response to variations in the speed at which a motor vehicle is moving.

2,282,367
RIDGE LEVELING ATTACHMENT
Arnold A. Koistinen, Bryant, S. Dak.
Application April 7, 1941, Serial No. 387,335
2 Claims. (Cl. 37—180)



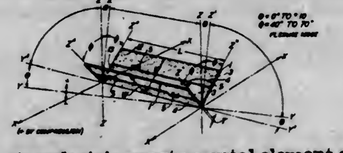
1. A ridge leveling device for a tractor having a front dirigible axle equipped with ground wheels, comprising a beam secured to said front axle and extending forwardly therefrom to a point in advance of said ground wheels, a tool bar rotatably mounted on the front end of the beam and extending laterally in both directions beyond the beam, arms fixed to the tool bar at opposite sides of the beam extending rearwardly from the tool bar, blades pivotally connected to the rear ends of the arms, coil springs connected to the blades and arms for holding the blades in operative position to level a ridge in front of said ground wheels, arms secured to the tool bar at opposite sides of the beam and extending upwardly and rearwardly therefrom, a lever pivotally mounted on the beam near the rear end of the beam and extending upwardly therefrom, a pair of spaced disks and a gear integral with and between the disks rotatably mounted on the lower end of the lever, links extending from the upper ends of the second named arms to the disks, a stationary rack carried by the beam meshing with said gear, a combined pull and push rod extending rearwardly from the upper end of said lever adapted to move the lever for rotating the disks with resultant actuation of said second named arms to raise or lower the blades, and means for securing the lever in adjusted position on the tractor.

2,282,368
BOAT PROPELLING MECHANISM
Melvin Marcum and Richard Vance, Breeden, W. Va., assignors, by direct and mesne assignments, of one-sixth to J. Floyd Harrison, and one-sixth to J. T. Lambert, both of Wayne, W. Va.
Application July 24, 1941, Serial No. 403,824
1 Claim. (Cl. 115—31)



A boat propelling mechanism of the character described comprising a reciprocating rod, means for actuating said rod, and a propeller mounted on the rod, said propeller including a longitudinally elongated hub secured to the rod and having longitudinal grooves therein, blades pivotally mounted on the hub for opening and closing movement, coil springs mounted on the hub and engaged in the grooves for cushioning the blades upon closing movement thereof, and resilient bumpers mounted on the hub for cushioning the blades upon opening movement of said blades.

2,282,369
PIEZOELECTRIC CRYSTAL APPARATUS
Warren P. Mason, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 3, 1940, Serial No. 350,903
16 Claims. (Cl. 171—327)

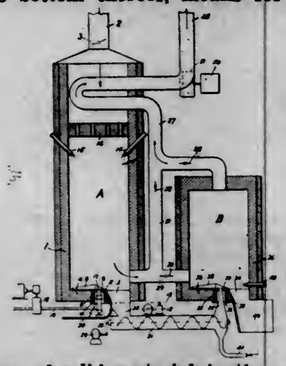


1. A piezoelectric quartz crystal element adapted to vibrate at a flexure mode frequency of low temperature coefficient dependent mainly upon the length and width dimensions of its major surfaces, said length dimension being substantially in the plane of a Y axis and the Z axis and inclined or disposed at an angle within the range from substantially 0 to +10.0 degrees with respect to said Y axis, said major surfaces being inclined at an angle within the range from substantially 40 to 75 degrees with respect to said plane of said Y axis and said Z axis, the ratio of the width dimension of said major surfaces with respect to said length dimension thereof being one of the values within the range from substantially 0.05 to 0.95.

2,282,370
INCINERATOR
John H. Gordon McConechy, Swarthmore, Pa., assignor to Sun Shipbuilding & Dry Dock Company, Chester, Pa., a corporation of Pennsylvania
Application February 6, 1940, Serial No. 317,469
5 Claims. (Cl. 110—8)

1. Apparatus for the incineration of watery materials comprising, in combination, a vertical drying chamber, an air inlet opening into the

upper part of the drying chamber; a combustion chamber, means for introducing watery materials into the drying chamber at high velocity at the bottom thereof in a substantially vertical direction, means for heating the drying chamber, means for introducing solid materials from the drying chamber into the combustion chamber from the bottom thereof, means for initiating



combustion of solid material in the combustion chamber, a flue for conducting off hot gases of combustion from the combustion chamber and a conduit affording communication between the lower part of the drying chamber and said flue whereby water vapor will be withdrawn from the drying chamber and a downdraft from the air inlet produced therein.

2,282,371

COATED SHEET MATERIALS

John Heron McGill, Manchester, England, and Harold James Tattersall, Ardrossan, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application June 7, 1939, Serial No. 277,786. In Great Britain June 13, 1938

3 Claims. (Cl. 117—73)

1. The process comprising applying a composition containing a polyvinyl phthalate and from 10 to 15% thereof of a phthalate of the monomethyl ether of ethylene glycol as a plasticizer to a rubberized fabric base, and subsequently applying a nitrocellulose lacquer thereto.

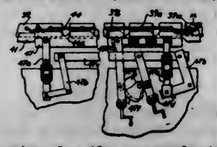
2,282,372

APPARATUS FOR FEEDING CLAY TO MOLDS IN THE MANUFACTURE OF POTTERY WARE

William J. Miller, Swissvale, Pa.

Original application March 20, 1936, Serial No. 69,776. Divided and this application August 13, 1940, Serial No. 352,378. In Russia June 10, 1929

4 Claims. (Cl. 25—22)



1. In apparatus for the manufacture of pottery ware, a clay feeder which comprises, a plurality of charge forming mechanisms, means for alternating the charge forming mechanisms at the feeding position and means for locking said charge forming mechanisms in the feeding position.

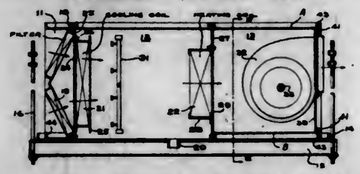
2,282,373

AIR CONDITIONING APPARATUS

William A. Minkler, Philadelphia, Pa., and Leroy G. Huggins, Springfield, Mass., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application December 1, 1938, Serial No. 243,484

8 Claims. (Cl. 257—137)



1. The combination of first and second casing sections, heat transfer apparatus in said first section, a fan in said second section, said second section having a fan outlet in one side thereof, said second section being adapted to be connected to said first section on either one of two other sides, and a panel fitting each of said other sides for closing the side not connected to said first section.

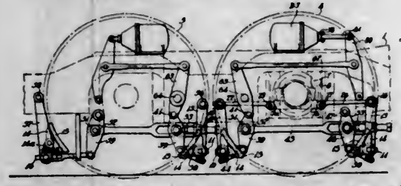
2,282,374

BRAKE RIGGING

Emil G. Mueller, Churchill Borough, Pa., assignor to The American Brake Company, Swissvale, Pa., a corporation of Missouri

Application May 15, 1941, Serial No. 393,567

11 Claims. (Cl. 188—56)



1. In a brake mechanism for a railway vehicle, the combination of a brake cylinder secured to the vehicle frame and having a piston movable therein, a horizontal lever connected intermediate its ends with said piston, and a vertically disposed Y-shaped brake cylinder lever pivotally secured to the vehicle frame and having its two arms operatively connected with the ends of said horizontal lever.

2,282,375

WAX SEALING COMPOSITION

Frederick Warde Padgett, Jackson Heights, N. Y., assignor to Moore & Munger, Plainfield, N. J., a firm composed of George T. Keating, Edward P. Snyder, and Murray Rushmore

No Drawing. Application October 27, 1939, Serial No. 301,615

5 Claims. (Cl. 106—270)

1. A solid meltable wax coating composition useful in making waxed paper and having a melting point substantially between 120° F. and 180° F., said composition being substantially free from liquid ingredients and being self-sealing when heated and subsequently cooled, said composition including a major proportion of petroleum wax and a minor proportion of a fusible polar wax-like substance selected from the group consisting of montan wax, montanic acid, carnauba wax and candelilla wax, the proportion of the fusible polar wax-like substance being at least substantially 0.1 per cent. of the petroleum wax and not exceeding substantially 2 per cent. of the petroleum wax, said fusible polar wax-like substance and the petroleum wax constituting a compatible mixture which remains stable during said self-sealing.

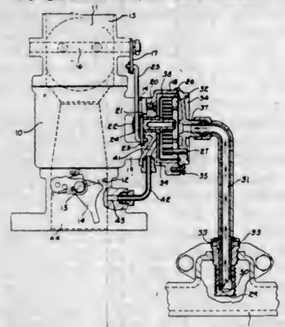
2,282,376

CARBURETOR CHOKE CONTROL

Bernard C. Phillips, Toledo, Ohio, assignor to The Tillotson Manufacturing Company, Toledo, Ohio, a corporation of Ohio

Application October 10, 1941, Serial No. 414,393

10 Claims. (Cl. 123—119)



1. In a carburetor, a throttle, a choke valve mounted on a shaft, a bimetallic spring of spiral form located in an inner chamber outside of said carburetor and operatively connected to said shaft to rotate the same, an insulating chamber partially surrounding said inner chamber, a plurality of ports communicating said inner chamber with said insulating chamber, a means for heating a fluid to temperatures dependent upon the operating temperature of the internal combustion engine, a conduit for conveying heated fluid from said heating means to said inner chamber, said heated fluid passing through said spiral spring for operating the same, said heated fluid leaving said inner chamber through said ports and acting as an insulating medium for said inner chamber as said heated fluid passes around said inner chamber, a conduit for transmitting the heated gas from said insulating chamber into the intake passageway of said carburetor on the engine side of said throttle.

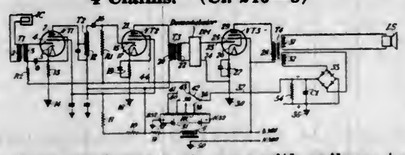
2,282,377

CONTROL MEANS FOR RAILWAY TRAIN COMMUNICATION APPARATUS

Willard P. Place, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application July 19, 1940, Serial No. 346,362

4 Claims. (Cl. 246—8)



1. In control means for use with railway train communication apparatus comprising an inductor mounted on a train for receiving carrier telephone energy, an electron tube amplifier having its control grid and cathode connected to such inductor and its output terminals connected to a demodulator to whose output side is coupled an output circuit adapted to actuate a telephone receiver; the combination comprising, a condenser coupled to said output circuit through a full wave rectifier to create a voltage across the terminals of said condenser proportional to the magnitude of the energy supplied to said telephone receiver, a train carried source of direct current, a resistor connected across said direct current source and provided with a series of taps having different voltages, said current source and said condenser each having its positive terminal connected to the cathode of said electron tube, a series of terminals a first one of which is connected to the negative terminal of said condenser and the others of which are connected one to each of the taps of said resistor, and a contact member connected to the control grid of said electron tube and adaptable of being set to engage any one of said series of terminals to control the sensitivity of such electron tube.

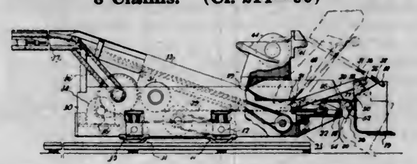
2,282,378

MUCKING MACHINE

Clarence F. Poole, Evanston, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application March 1, 1940, Serial No. 321,698

8 Claims. (Cl. 214—90)



1. In a shoveling device adapted to pick up loose material and discharge it onto a conveyer, a frame, a boom transversely pivoted adjacent the forward end of said frame, a scoop pivotally mounted on the forward end of said boom, and a chute communicating with said scoop and adapted to deliver material from said scoop onto said conveyer, the delivery end of said chute diverging upwardly from the transverse pivotal axis of said boom, when said scoop and boom are in a lowered gathering position, to deliver material onto said conveyer in the direction of travel of said conveyer, said chute being slidably movable with respect to said boom and having pivotal connection with said scoop at a point spaced from the axis of pivotal connection of said boom to said scoop and also having stop means arranged to engage said frame and bear the forward thrust of said scoop independently of said boom when said scoop is in a gathering position.

2,282,379

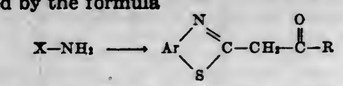
NEW INSOLUBLE MONAZO COMPOUNDS

Maurice Arthur Thorold Rogers and Wilfred Archibald Sexton, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Original application June 22, 1938, Serial No. 215,268. Divided and this application January 28, 1941, Serial No. 376,334. In Great Britain June 23, 1937

7 Claims. (Cl. 260—158)

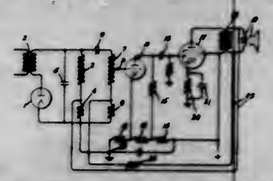
1. A water-insoluble azo compound represented by the formula



in which X—NH_2 is a primary arylamine of the

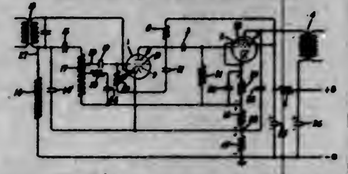
benzene series which is devoid of groups which induce solubility in water; Ar is an ortho-arylene radical of the group consisting of the benzene and naphthalene series which are devoid of groups which induce solubility in water; and —CO—R is an acyl group.

2,282,280
FEED-BACK CIRCUIT
Charles S. Root, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Application July 26, 1938, Serial No. 221,319
10 Claims. (Cl. 179—171)



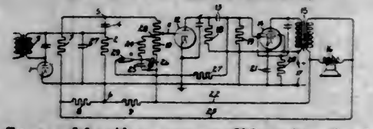
1. In combination, an electron discharge device having input electrodes, and an output circuit, a Wheatstone bridge, means to supply electromotive force to be transmitted through said discharge device to one pair of diagonally opposite corners of said bridge, and means to supply electromotive force from said output circuit to another pair of diagonally opposite corners of said bridge, the input electrodes of said discharge device being connected between one of said first pair of corners and an arm of said bridge.

2,282,281
AMPLIFIER
Charles S. Root, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Application June 20, 1939, Serial No. 280,119
14 Claims. (Cl. 179—171)



1. The combination, in an amplifier, of means to supply signals to the input circuit of said amplifier having frequencies extending over a range of signal frequencies, an output circuit for said amplifier including a reactive impedance, the phase characteristics of said impedance and said amplifier being such that if the voltages across said impedance were supplied to said input circuit in proper phase to produce degeneration at low frequencies within said range then undesirable regeneration would occur at high frequencies within said range due to variations in said characteristics with frequency, means to maintain the phase of the currents in said output circuit substantially unaffected by said variations, means responsive to said currents to supply potentials from said output circuit to said input circuit in degenerative phase at all frequencies within said range, and means to vary simultaneously the intensity of said signals supplied to said input circuit and the intensity of said potentials supplied thereto from said output circuit.
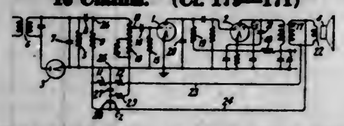
2,282,282
AMPLIFIER SYSTEM
Charles S. Root, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Application August 19, 1939, Serial No. 291,032
10 Claims. (Cl. 179—171)



1. In combination, an amplifier, two feed-back paths from the output to the input of said amplifier, and means to vary the amplification of said amplifier and simultaneously to vary the effectiveness of said two paths, the effectiveness of one of said paths being varied by said means to a greater extent than the other.

9. The combination, in a voice current amplifier, of a volume control potentiometer, the input of said amplifier being connected between a low potential terminal and a variable point of said potentiometer, a resistance and a condenser connected across a low potential portion of said potentiometer, means to supply voltage from the output of said amplifier across said condenser and thence through said resistance to said potentiometer to produce degeneration of said amplifier, said condenser and resistance being so proportioned that the output of said amplifier per unit of input in the region of sixty cycles is less than that in the region of two hundred and fifty cycles for all high volume adjustments of said variable point.

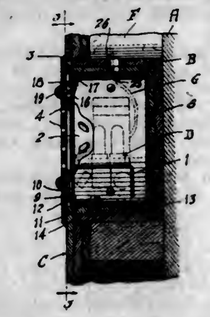
2,282,283
AUDIO FREQUENCY AMPLIFIER
Charles S. Root, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application September 13, 1939, Serial No. 294,659
16 Claims. (Cl. 179—171)



2. The combination, in an audio amplifier for amplifying currents having a range of frequencies extending from the lowest audio frequencies to the neighborhood of 10,000 cycles having a peak of response at high frequencies intermediate in said range, of means to supply voltage from the output of said amplifier to the input thereof in degenerative phase at all frequencies to be amplified, and means to shift the phase of said voltage in the range of frequencies where said peak of response occurs thereby to reduce the effectiveness of said voltage in producing degeneration at said peak while said voltage remains degenerative at all frequencies in the range to be amplified.

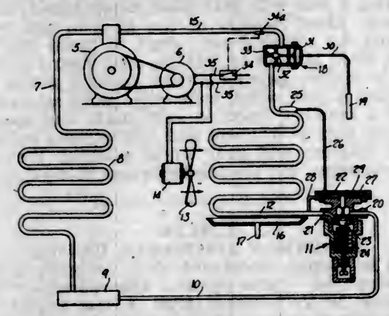
2,282,284
FLUSH WALL MOUNTING FOR RADIO UNITS
Le Roy Schenck, East Orange, N. J.
Application December 7, 1940, Serial No. 369,067
2 Claims. (Cl. 250—16)

1. The combination with a wall having a recess whose edges are in the general plane of the face of the wall, a chassis normally located in said recess for mounting a unit in the recess, a hinged connection between said chassis and one wall of said recess whose axis is normally disposed within the recess and parallel with the plane of the edges of said recess, said hinged connection including a pair of hingedly connected leaves one of which is fastened to said chassis while the other is adjustably and separably connected to said wall of the recess to permit adjustment of the axis of the hinge toward



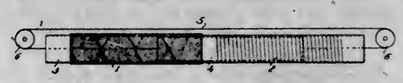
and from the edges of said recess, so as to properly locate the chassis with respect to said face of said wall and to permit said chassis and the unit thereon to swing outwardly from said recess about said hinged connection or to be removed from the recess, a support on said chassis normally disposed in approximately said plane of the edges of the recess, and a panel separately mounted on said support to abut said face of the wall and close said recess.

2,282,385
REFRIGERATION CONTROL
Sam F. Shawhan, Syracuse, N. Y., assignor to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware
Application July 14, 1939, Serial No. 284,433
15 Claims. (Cl. 62—8)



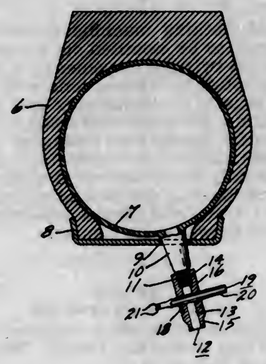
1. The method of regulating the action of the evaporator of a compression type refrigerating system which comprises supplying refrigerant to the evaporator for evaporation therein, withdrawing evaporated refrigerant from the evaporator, regulating the withdrawal of refrigerant from the evaporator in such manner that the temperature therein is caused to rise to a predetermined point, regulating the admission of refrigerant to the evaporator after the temperature therein has risen to said predetermined maximum point in such manner that the effective area of the evaporator will be varied, the effective area being maintained at said predetermined maximum temperature.

2,282,386
RESONANT ABSORPTION REDUCING DEVICE
Dwight V. Sinninger, Chicago, Ill., assignor to Johnson Laboratories, Inc., Chicago, Ill., a corporation of Illinois
Application April 26, 1939, Serial No. 270,193
4 Claims. (Cl. 250—40)



1. A tuning unit for a radio receiver to provide two continuously tunable ranges of higher and lower frequencies respectively, including two coaxially and adjacently disposed windings each of a length several times its diameter, and a ferromagnetic core arranged to be movable into one or the other of said windings, the winding for the range of higher frequencies being a solenoidal winding and the other winding comprising a plurality of angularly displaced and parallel traverses having equal small numbers of widely-spaced turns, the arrangement being such that any parallel and closely adjacent turns belong to different traverses.

2,282,387
AIR INJECTION NOZZLE
Francis Byron Todd, Attalla, Ala.
Application August 17, 1940, Serial No. 353,079
2 Claims. (Cl. 152—415)



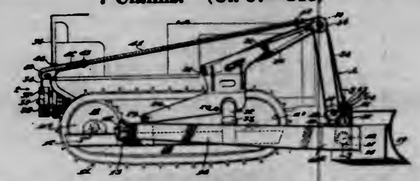
1. In an air injection nozzle for attachment to a valve stem of an inner tube of a pneumatic tire of the type mounted on a metal rim and in which the valve stem projects through an aperture formed in the metal rim, comprising a non-resilient body portion, means defining an open passageway extending through said body portion, internal threads formed in said passageway at one end of the body portion for attachment of the body portion to the end of a valve stem, the other end of the body portion being reduced in diameter and formed for insertion into an air supply conduit, and means provided on the body portion and disposed closely adjacent the end of the valve stem of the inner tube being inflated, when the body portion is in threaded engagement therewith, for engagement with the tire rim to prevent a movement of the body portion through the aperture in the tire rim.

2,282,388
FOLDABLE ANTENNA
Martin Zeh, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie, m. b. H., Berlin, Germany, a corporation of Germany
Application August 5, 1939, Serial No. 288,514
In Germany August 11, 1938
5 Claims. (Cl. 250—33)



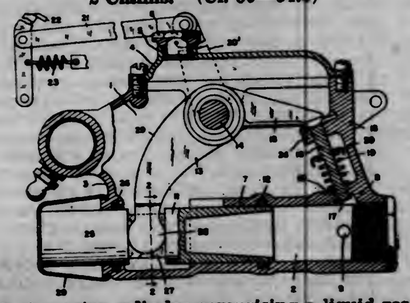
1. A foldable antenna comprising a first and a second metal band normally arranged parallel to each other in the folded state, a block fastened to the lower end of both said first and second bands to retain them in a position at right angles to each other, and a guide member located at the upper end of said first band and having a slot in which said second band may move.

2,282,389
BULLDOZER
Lisle T. Argo, Los Angeles, Calif., assignor to Kay-Brunner Steel Products Inc., a corporation of Delaware
Application December 27, 1938, Serial No. 247,804
7 Claims. (Cl. 37—144)



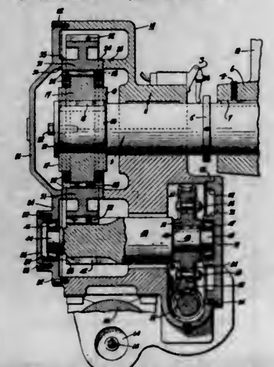
3. A road working machine having a pair of arms adapted to be mounted on a frame for pivotal and axial twisting movements, a cross member having rotatable connections with said arms which are axially of the member and transversely of the arms, an implement fixed to said arms, and means for lengthwise tilting of the implement, comprising an element fixed to and extending radially from said cross member, a second element fixed to and extending from at least one of said arms, and means for effecting relative rotation between said elements.

2,282,390
MASTER CYLINDER
Carl F. Baisch, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Application March 20, 1939, Serial No. 263,068
2 Claims. (Cl. 60—54.6)



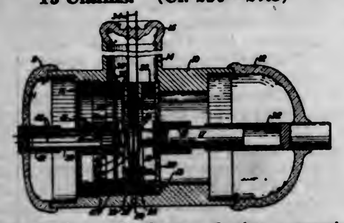
1. A master cylinder comprising a liquid reservoir, a cylinder at the bottom of and opening at one end into said reservoir, a piston movable in said cylinder, a second piston in substantially axial alignment with said first mentioned piston and having substantially the same diameter, said second piston extending through a wall of said reservoir, a rod of reduced diameter rigidly connecting adjacent ends of said pistons, a lever having furcations embracing said rod and engageable with said adjacent ends for moving said pistons, and a flexible cap secured to said reservoir and extending over the outer end of said second piston.

2,282,391
MAGAZINE REEL
David G. Bernard, Chicago, Ill., assignor to The Goss Printing Press Company, Chicago, Ill., a corporation of Illinois
Application May 6, 1939, Serial No. 272,079
7 Claims. (Cl. 242—64)



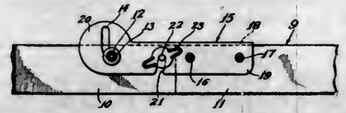
1. A magazine reel mechanism for rotary printing presses including in combination a supporting frame, a shaft journaled in said frame and having pairs of arms fixed thereon, said pairs of arms having means for rotatively supporting a web roll, said shaft being axially movable to effect registry of the webs in the press, means for rotating said shaft to move the web rolls from station to station, said means including a motor, gearing driven by said motor including a gear wheel concentric with said shaft, and a member fixed to said shaft and located within said gear wheel and connections between said member and gear wheel whereby they rotate together but are relatively movable axially.

2,282,392
ELECTRON DISCHARGE DEVICE
Carl A. Bieling, Westfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 6, 1941, Serial No. 396,851
13 Claims. (Cl. 250—27.5)



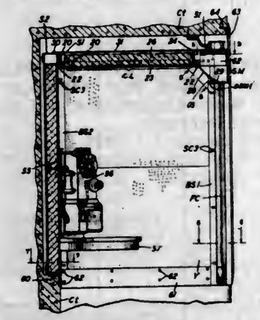
13. An electron discharge device comprising a cathode, an anode, a pair of grid electrodes between said cathode and said anode, each of said grid electrodes comprising a support having a slot in one face thereof and a plurality of parallel wires affixed to the support, means spacing said grid electrodes in parallel relation, a pair of leading-in conductors each of which is fitted in one of said slots, and means fixing said conductors in relation to each other.

2,282,393
CURTAIN STRETCHER
Walter W. Block, Kenosha, Wis.
Application July 29, 1939, Serial No. 287,358
5 Claims. (Cl. 287—99)



2. In a curtain stretcher, a rail comprising a pair of sections adapted for arrangement in end to end relation, a hinge comprising a plate rigidly secured to one of said sections and extending beyond the end thereof, the extended portion of said plate having a slot therein, pivot means on the other of said rails engageable with said plate in said slot, a bolt extending through said other section, another slot in said plate engageable with said bolt, and securing means on said bolt for securing said rail in extended position.

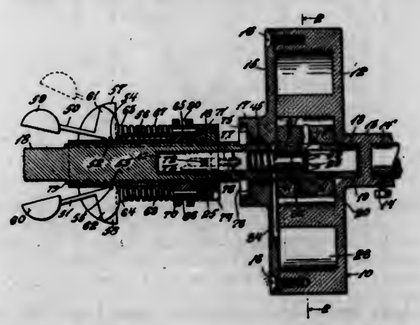
2,282,394
TELEPHONE BOOTH
Frank S. Corso, Beechhurst, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 27, 1939, Serial No. 281,347
8 Claims. (Cl. 189—2)



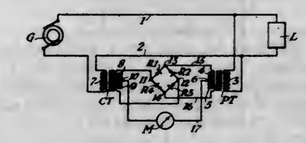
5. In a telephone booth, a frame consisting of corner posts and spacer members secured to said corner posts, two side walls, a rear wall, a ceiling and a roof secured to said frame, a plate secured at its longitudinal edges to one of said spacer members, and to said ceiling for cooperation therewith and with said roof to form a casing of substantially triangular cross-section at the front, top end of the booth and a lighting fixture housed in said casing.

2,282,395
HYDRAULIC TRANSMISSION
John T. Corrigan, Newport, R. I.
Application October 21, 1940, Serial No. 362,004
10 Claims. (Cl. 192—61)

1. In a hydraulic power transmission, a casing constructed to form a receptacle for a fluid, a driven shaft affixed to said casing, a driving shaft extending into said casing, means carried by said shafts for circulating fluid within the casing when relative rotation of said shafts occurs, a valve for controlling the circulation of the fluid, and automatic means external of the casing actuated by the rotational speed of the driving shaft for closing said valve when the speed of the driving shaft is increased up to a predetermined rate to cause the rotation of said driven shaft at the same rate of speed as said driving shaft, said valve being automatically yieldable when subjected to pressure above a predetermined pressure for allowing the circulation of the fluid and rendering the action of the automatic valve closing control ineffective so as to enable the driving shaft to run faster than the driven shaft and in proportion to the torque and load to be driven when the driving shaft is subjected to sudden bursts of speed.

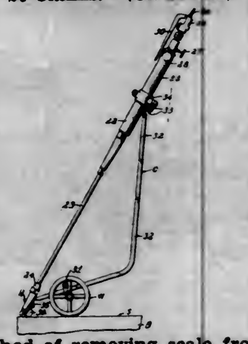


2,282,396
WATTMETER
Austin M. Cravath, San Francisco, Calif., assignor to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application December 26, 1940, Serial No. 371,673
19 Claims. (Cl. 171—95)



14. A wattmeter of the character described comprising, in combination, an electrical ring including four resistance units having substantially equal resistance values at zero current, at least two consecutive units of said ring having asymmetric properties and exhibiting a change of resistance with current, means for conducting current into said ring which is proportional to the load current for unbalancing said ring by virtue of the change in resistance of said asymmetric units whereby one path through the ring has a lower resistance than the other path, means for applying a potential proportional to the load potential across said ring in such manner that unequal currents flow in said two paths, and means for measuring the potential difference resulting from the flow of said unequal currents in said ring.

2,282,397
METHOD OF AND APPARATUS FOR TREATING DEFECTIVE SURFACES OF METAL BODIES
Elbe W. Deck, Plainfield, N. J., assignor to Oxweld Acetylene Company, a corporation of West Virginia
Application March 3, 1939, Serial No. 259,495
20 Claims. (Cl. 29—91)



1. A method of removing scale from the surface of a ferrous metal body which comprises providing a combustible mixture of fuel gas and combustion-supporting gas; forming from such combustible mixture a jet having a velocity in excess of 600 feet per second; and directing against such scale a high temperature and high velocity heating flame formed by said jet.

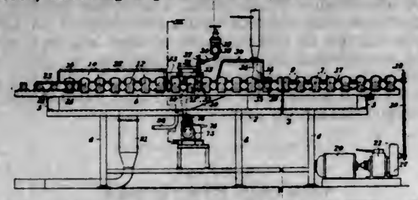
2,282,398
METHOD OF MAKING INSULATED RESISTORS
Sidney B. Ehrlich, St. Marys, Pa., assignor to Stackpole Carbon Company, St. Marys, Pa., a corporation of Pennsylvania
Application October 24, 1940, Serial No. 362,519
3 Claims. (Cl. 201—63)



1. The method of making a resistor in which a molded body member is enclosed by an insulating tape member, comprising applying an adhesive to one of said members, wrapping said tape member tightly and substantially straight around said body member, and then pressing a plurality of body member surrounding grooves in the tape member whereby it is caused to firmly adhere to said body member.

2,282,399
MANUFACTURE OF LAMINATED GLASS
Patrick Finnegan, Jeannette, Pa., assignor to American Window Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 27, 1940, Serial No. 342,746
4 Claims. (Cl. 49—81.5)

1. In the manufacture of laminated glass, the steps comprising moving the sheet of glass in substantially horizontal position past a filming station, flowing a film of a solution of strengthening material wider than the glass sheet downwardly toward and onto the top surface of the sheet as it is carried past the filming station, and, while the film is being flowed onto the glass sheet, exerting a pull on the portion of the film



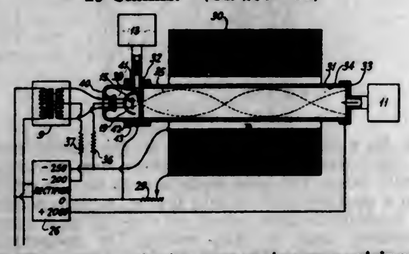
passing downwardly past the edges of the glass sheet in excess of that exerted on the film by the glass sheet.

2,282,400
COOKING UTENSIL
William S. Ginnel, New York, N. Y.
Application October 2, 1940, Serial No. 359,379
9 Claims. (Cl. 53—8)



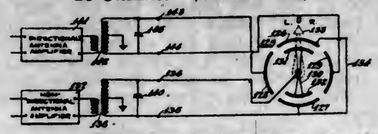
2. In a cooking utensil, a vessel, a heating plate spaced away from a substantial area of the bottom of said vessel, conductors extending outwardly beyond said heating plate and spaced away from the bottom of said vessel and at its bottom periphery, said conductors being turned upwardly and secured to said vessel near the top of the sides thereof, said heating plate having a contact ring contacting the bottom of said vessel and said heating plate.

2,282,401
ELECTRICAL VACUUM PUMP
Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application January 6, 1938, Serial No. 183,584
Renewed January 30, 1940
19 Claims. (Cl. 230—69)



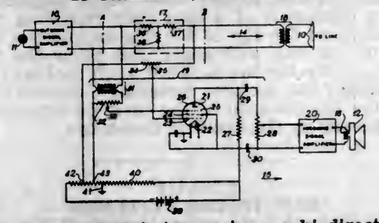
1. Vacuum producing apparatus comprising in combination an electron discharge device having an inlet associated with an object to be evacuated, an outlet, a cathode located at one end of said electron discharge device, a metallic anode adjacent said cathode, a second anode spaced apart from said first anode, means for supplying a voltage substantially higher to said second anode than to said first anode, and magnetic means interposed between said anodes for producing a magnetic field for increasing the length of the electron path in said electron discharge device.

2,282,402
AUTOMATIC RADIO DIRECTION INDICATOR SYSTEM
Edward J. Hefele, Amityville, N. Y.
Application April 27, 1937, Serial No. 139,142
10 Claims. (Cl. 250—11)



1. In a right-left indicating direction finding system, a non-directional antenna; a directional antenna; a radio frequency amplifier for each of said antennae; an electro-mechanical indicator having fixed members and unrestrained movable members; circuit connections from said radio frequency amplifiers to said fixed and to said movable members for applying radio frequency signals thereto; said movable and fixed members coacting on each other to produce a rotation of said movable member to indicate the relative values of the signals in said amplifiers when energy is being received from each of said antennae, and to maintain said movable member at its zero position when energy is received from said non-directional antenna and substantially no energy is received from said directional antenna.

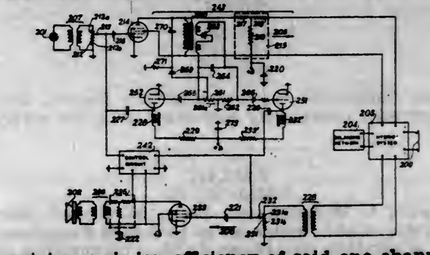
2,282,403
TRANSMISSION SYSTEM
Roswell H. Herrick, Oak Park, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application August 14, 1939, Serial No. 290,087
15 Claims. (Cl. 179—170)



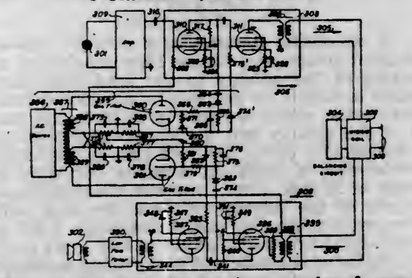
13. In a transmission system, a bi-directional signal current transmission channel, a coupling network including an output circuit and means for transmitting signal currents from said channel to said output circuit only when they traverse said channel in a predetermined direction, and a second signal current transmission channel electrically coupled to said bi-directional channel only through said network, whereby signal currents are only transmitted from said bi-directional channel through said network to said second channel when they traverse said bi-directional channel in said predetermined direction.

2,282,404
TRANSMISSION SYSTEM
Roswell H. Herrick, Oak Park, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application August 14, 1939, Serial No. 290,088
10 Claims. (Cl. 179—170)

4. In a transmission system, a signal current transmission channel, an electron discharge tube including a pair of output electrodes, means for coupling said output electrodes to said channel so that the signal current transmission efficiency of said channel is changed in one sense in response to an increase in the output electrode impedance of said tube and is changed in an opposite sense in response to a decrease in the output electrode impedance of said tube, means responsive to signal currents traversing said channel for changing the output electrode impedance of said tube substantially to increase the signal current transmission efficiency of said one channel, and means controlled in accordance with the amplitude of signal currents traversing said channel for further controlling the output electrode impedance of said tube to vary the signal current transmission efficiency of said channel inversely in accordance with the amplitude of the signal input thereto.



2,282,405
TRANSMISSION SYSTEM
Roswell H. Herrick, Oak Park, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application August 14, 1939, Serial No. 290,090
8 Claims. (Cl. 179—170)



1. In a transmission system, a signal current transmission channel, a signal current amplifier in said channel, a control circuit comprising a gaseous discharge tube including an anode and a cathode separated to define a space current path and a start electrode for controlling the flow of current over said path, a source of alternating voltage for delivering current to said space current path, whereby space current flow over said path is automatically maintained only so long as a predetermined start potential is impressed upon said start electrode, means for impressing said start potential upon said start electrode when signal currents traverse said channel, and means controlled by the resulting flow of current over said path for controlling the gain through said amplifier to change the signal current transmission efficiency of said channel.

2,282,406
FLUID CONTROL APPLICATOR
Ernest L. Hollenbeck, East Orange, N. J.
Application March 1, 1940, Serial No. 321,621
17 Claims. (Cl. 15—139)

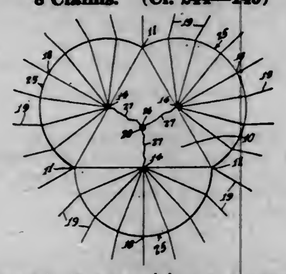
1. A fluid control assembly comprising a body

having a passage therein, a resilient valve at the outer terminal of said passage, said valve



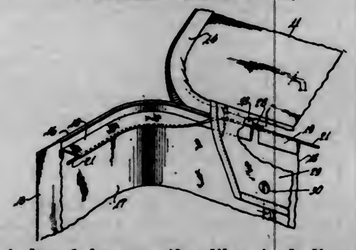
being flanked by resilient auxiliary feeders, and a spreader operatively associated with the valve.

2,282,407
PARACHUTE
Edward L. Hoffman and James M. Russell, San Diego, Calif., assignors to Standard Parachute Corporation, San Diego, Calif., a corporation of California
Application May 14, 1941, Serial No. 393,386
8 Claims. (Cl. 244—145)



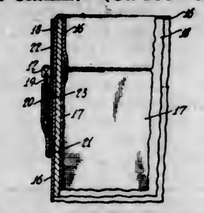
1. A parachute comprising a canopy, load-attachment means, and shroud lines connecting the margins of the canopy to the load-attachment means; in which the paths from the load-attachment means along the shroud lines to the margin of the canopy and thence along the surface of the canopy along a direct line to the center thereof are of different lengths for different groups of shroud lines, whereby those marginal portions of the canopy adjacent the long paths are capable of greater radial distention than are those lateral extensions adjacent the short paths, the lengths of the different paths along successive shroud lines varying in length cyclically to define an odd number of paths of maximum length symmetrically spaced about the center of the canopy.

2,282,408
HANDBAG
Joseph N. Lowe, New York, N. Y.
Application May 29, 1939, Serial No. 276,292
7 Claims. (Cl. 190—51)



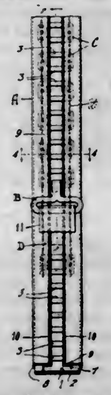
1. A hand bag or the like, including a bag body, a cover swingably connected along one edge with the bag, a flexible restraining member attached to the inner surfaces of the bag and the cover, at points inwardly of the connection for the cover, and tending to hold the cover in a raised position, and pressure means located within the mouth of the bag and bearing on said member at the side nearest the bag body at a point near that where said flap is attached to the cover, for holding the cover in a partially raised position when it is swung back, the pressure means acting to ease the strain imposed by the weight of the cover upon the restraining member.

2,282,409
HANDBAG
Joseph N. Lowe, New York, N. Y.
Original application May 29, 1939, Serial No. 276,292. Divided and this application July 9, 1941, Serial No. 401,573
2 Claims. (Cl. 190—41)



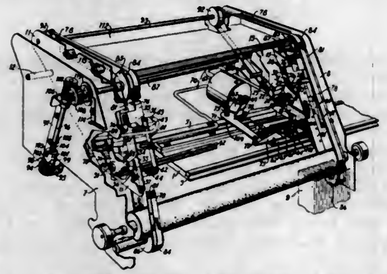
1. A hand bag or the like, including a bag body with a covering of flexible material and having a mouth, a cover, hookless fastenings extending around the mouth and cover, and fastener backing-up means stiffer than the flexible material and located between such material and the fastenings secured to the body, such backing-up means consisting of a thin strip extending substantially to the rim of the bag around the outside of the bag, and above and below the fastenings when the bag is closed, such backing strip preventing the hookless fastening elements from wearing the material of the covering when closing the bag by the hookless fastenings.

2,282,410
ADJUSTABLE FASTENER
Richard J. Roseman, Newark, N. J.
Application November 19, 1940, Serial No. 366,203
3 Claims. (Cl. 24—206)



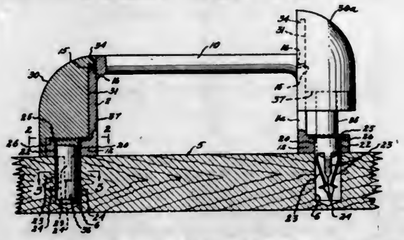
3. An adjustable fastener part comprising a body strip of flexible material, a plurality of fastener elements each comprising a single substantially flat piece of rigid sheet material having an opening therethrough forming two integrally rigidly connected rigid spaced bars disposed in edge-to-edge relation to each other, said fastener elements being secured flatwise on said body strip in spaced relation in a row longitudinally of said body strip and each having at least one aperture adjacent one end of each bar, a cover strip having a main portion underlying said body strip and its longitudinal edge portions folded inwardly over the ends of said fastener elements to leave portions of said bars exposed between said longitudinal edge portions, two parallel continuous lines of stitches extending longitudinally of said strips and penetrating said longitudinal edge portions, said main portion and said body strip, certain of said stitches traversing said bars of the fastener elements, and two other parallel lines of stitches penetrating at least said body strip with certain stitches passing through certain of said apertures.

2,282,411
SHEET FEEDING MECHANISM FOR ACCOUNTING MACHINES
Oscar J. Sundstrand, West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application June 3, 1940, Serial No. 338,509
8 Claims. (Cl. 197—130)



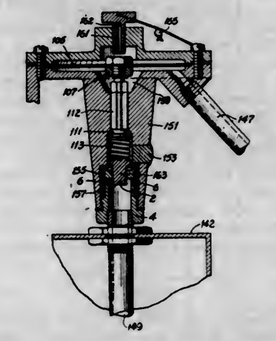
1. In a machine of the class described, a traveling carriage movable through working and return strokes, a platen, a supply magazine for holding a stack of work sheets, means controlled by the carriage and operating during each return stroke of the carriage, for removing a work sheet from the magazine and means also controlled by the carriage and operating during each return stroke for moving the removed work sheets toward and around the platen.

2,282,412
HANDLE DEVICE
Frank C. Wallace, Los Angeles, Calif., assignor to Hollywood Comb Curler, Inc., Los Angeles, Calif., a corporation of California
Application December 13, 1940, Serial No. 369,917
2 Claims. (Cl. 16—111)



1. A device of the class described comprising a body presenting a medial handle portion and oppositely disposed L-shaped end portions, a hole through the body of each of said end portions, a tubular locking member mounted in each of said holes, each of said locking members having an outwardly flanged top portion engaging the body and oppositely disposed prongs projecting below the body, and a pair of detachable end portions mounted on said L-shaped end portions of the body, each of said detachable end portions having a portion projecting into each of the respective locking members between said prongs whereby to expand said prongs outwardly.

2,282,413
SAFETY APPARATUS
Orren E. Zoder, St. Louis, Mo., assignor, by mesne assignments, to Zoder, Incorporated, St. Louis, Mo., a corporation of Missouri
Original application November 16, 1939, Serial No. 305,159, now Patent No. 2,240,277, dated April 29, 1941. Divided and this application May 25, 1940, Serial No. 337,183
3 Claims. (Cl. 137—21)

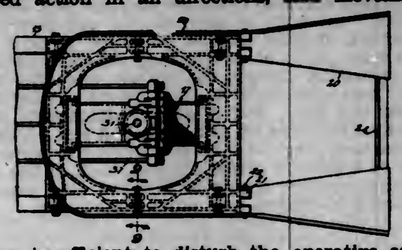


1. Safety apparatus comprising a hollow body having movable separating means dividing it into two compartments, said body having a liquid inlet on one side of the separating means and having a liquid suction outlet upon the same side of said means, a valve seating downstream between the inlet and the outlet, a spring normally biasing said valve to a seat, adjustable backing means for the spring, said movable means being arranged to open the valve upon suction occurring in said outlet, the compartment on the other side of the movable means having an atmospheric connection, and means for simultaneously closing said atmospheric connection and moving the movable means to open the valve by manual adjustment from the exterior of the device.

2,282,414
TRACTOR TRAILER COMBINATION
James J. Black, Cincinnati, Ohio, assignor, by mesne assignments, to The Fifth Third Union Trust Company of Cincinnati, Ohio
Application March 24, 1939, Serial No. 263,957
4 Claims. (Cl. 280—33.1)

4. In a tractor of the type adapted to pull a trailer, a chassis for said tractor, a king pin element, rubber means for mounting said king pin element on said chassis, support means carried by said king pin element, and operating mechanisms on said support means operatively associated with service mechanisms on said trail-

er, said king pin element having a limited cushioned action in all directions, said movement



being insufficient to disturb the operative connections to the respective operating mechanisms.

2,282,415

TREATMENT OF ARTIFICIAL MATERIALS

David James Hadley and Thomas Jackson, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application May 8, 1940, Serial No. 333,936. In Great Britain May 23, 1939

2 Claims. (Cl. 8—132)

1. Process for increasing the extensibility of artificial filamentary materials made of or containing an organic derivative of cellulose, which comprises subjecting such filamentary materials which have been stretched in the presence of wet steam to 1000% of their original length to increase their tenacity, to immersion for ten minutes at 15° C. in a bath containing 76% of an alkyl formate containing 2 to 4 carbon atoms in the molecule, in the absence of tension sufficient to stretch said filamentary materials, whereby said filamentary materials are shrunk by 10 to 15% of their length and their extensibility is increased.

2,282,416

TREATMENT OF ARTIFICIAL MATERIALS

David James Hadley, Banstead, Surrey, and Thomas Jackson, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Original application May 8, 1940, Serial No. 333,936. Divided and this application December 27, 1940, Serial No. 372,004. In Great Britain May 23, 1939

2 Claims. (Cl. 8—131)

1. Process for increasing the extensibility of artificial filamentary materials made of or containing an organic derivative of cellulose, which comprises subjecting such filamentary materials which have been stretched in the presence of wet steam to 1000% of their original length to increase their tenacity, to immersion for ten minutes at 20° C. in a bath of methyl propionate, in the absence consisting solely of tension sufficient to stretch said filamentary materials, whereby said filamentary materials are shrunk by 10 to 15% of their length and their extensibility is increased.

2,282,417

TREATMENT OF ARTIFICIAL MATERIALS

David James Hadley, Banstead, Surrey, and Thomas Jackson, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Original application May 8, 1940, Serial No. 333,936. Divided and this application December 27, 1940, Serial No. 372,005. In Great Britain May 23, 1939

2 Claims. (Cl. 8—131)

1. Process for increasing the extensibility of artificial filamentary materials made of or containing an organic derivative of cellulose, which comprises subjecting such filamentary materials which have been stretched in the presence of wet steam to 1000% of their original length to increase their tenacity, to immersion for ten minutes at 76° C. in a bath consisting solely of propylene chloride, in the absence of tension sufficient to stretch said filamentary materials, whereby said filamentary materials are shrunk by 10 to 15% of their length and their extensibility is increased.

2,282,418

PLAYING RACKET CONSTRUCTION

Horace W. Hall, Newton, Mass.

Application March 1, 1940, Serial No. 321,704

11 Claims. (Cl. 273—73)



1. A playing racket comprising a basic frame embodying a bow head and handle, a throat at the base of said bow head, a portion of said basic frame handle tapering in thickness in a direction towards the outside end of said handle, reinforcing palette means exteriorly of and extending over the said handle and throat, said palette means tapering in thickness between said handle and said throat in a direction towards said bow head, said palette means being of lighter weight material than said handle portion.

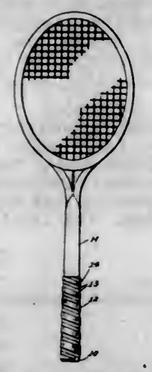
2,282,419

GRIP MEANS FOR IMPLEMENT HANDLES

Horace W. Hall, Newton, Mass.

Application May 23, 1940, Serial No. 336,737

12 Claims. (Cl. 273—75)



1. An implement comprising a handle gripping portion having a grip piece wrapped around it, comprising portions that vary substantially in density and thickness, said varying portions consisting of substantially the same quantity of material in cross-section.

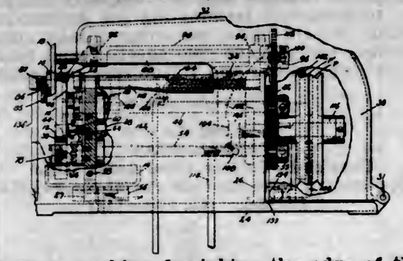
2,282,420

QUARTER LINING INKING MACHINE

John D. Hossfeld, Beverly, Mass., assignor to United Shoe Machinery Company, Borough of Flemington, N. J., a corporation of New Jersey

Application December 6, 1939, Serial No. 307,874

10 Claims. (Cl. 91—50)



1. In a machine for inking the edge of thin material, an ink-carrying roll, and a pair of feeding rolls mounted on axes parallel to the axis of the ink-carrying roll, said rolls having complementary surfaces sloping toward the surface of the ink-carrying roll constructed and arranged to cause the material adjacent to its edge to be deflected by the ink-carrying roll so as to stiffen that portion of the material while it is in contact with the ink-carrying roll.

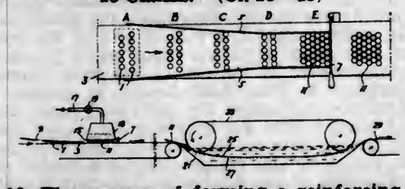
2,282,421

REINFORCING MATERIAL AND METHOD OF PRODUCING SAME

Charles H. Luby, Philadelphia, Pa.

Application January 25, 1940, Serial No. 315,539

13 Claims. (Cl. 18—48)



10. The process of forming a reinforcing and packaging material which comprises forming a plurality of relatively thin, open-centered elements of compressed, finely ground, substantially fat-free zein, arranging the elements in edge to edge contact, fusing them to one another at their points of contact by localized treatment with a hardening or gelatinizing agent, and surface-hardening the article so formed by immersion in a bath of said agent.

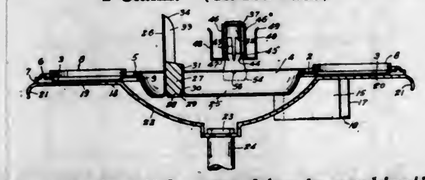
2,282,422

SMOKER'S COMBINATION UNIT

Walter J. Gallagher, Cincinnati, Ohio

Application March 11, 1940, Serial No. 323,267

1 Claim. (Cl. 131—235)



A smoker's article comprising in combination an ash receptacle, and a holder for cigarettes or cigars, said holder including an apertured top plate and means for supporting the top plate above the receptacle, a cigarette or cigar basket comprising a tubular upper portion having a depth sufficient to support a cigarette or cigar in a cocked oblique position at an angle to the axis of said tubular portion, the latter having a solid wall to contact and exclude upward passage of air past the lighted end of a cigarette or cigar so supported therein, thereby to have a snuffing action for extinguishing the lighted end, means connecting the upper end of said tubular portion to the top plate within the aperture thereof, and a series of spaced prongs depending from the tubular portion and including inturned terminal ends projected toward the tube axis for supporting in non-extinguishing relationship a cigarette or cigar placed within the basket axially of the tubular upper portion, with its lighted end foremost.

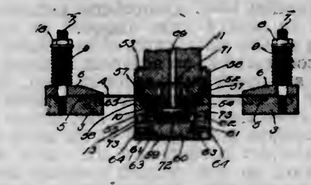
2,282,423

PROCESS AND APPARATUS FOR FORMING ARTICLES FROM ORGANIC PLASTIC MATERIAL

William H. Kopitke, West Hartford, Conn., assignor to Plax Corporation, Hartford, Conn., a corporation of Delaware

Application September 15, 1939, Serial No. 295,009

11 Claims. (Cl. 18—19)

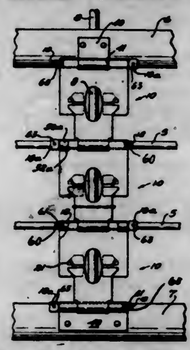


3. The process of forming hollow articles from organic plastic sheet material which may be rendered plastic and moldable by heat, which comprises drawing a portion of a heated and plastic sheet of such material between inner and outer dies of which the inner die does not fill the cavity of the outer die by a substantial amount in addition to the space occupied by the material being molded, and supplying pneumatic pressure through the lateral sides of said inner die adjacent to the end thereof during the time said dies are moving toward one another and as they are approaching their final position in drawing the plastic material to provide a gaseous cushion preventing the undue extraction of heat from the plastic material by the side portion of said inner die during the drawing of the plastic material.

5. Apparatus for forming hollow articles from organic plastic sheet material which may be rendered soft and moldable by heat, comprising an outer die of material of relatively high heat conductivity and having a cavity therein shaped to form the desired article, a plunger cooperating with said die and substantially smaller adjacent to its forward end than the cavity of said die, the difference between the sizes of the die cavity and the plunger being substantially greater than that required to accommodate the material being molded, means for relatively moving said die and said plunger to cause them to approach one another to engage therebetween a sheet of heated and moldable plastic material, and a non-metallic insert located at the perimeter of the cavity of said outer die and adapted to be engaged by the sheet of material being drawn between said die and said plunger upon their movement together to prevent too rapid loss of heat from the plastic material to the material of the outer die by conduction through the perimetral portion of

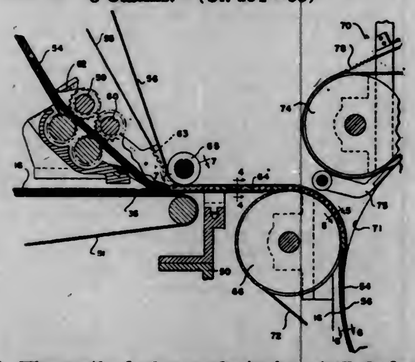
the outer die in contact with the sheet of plastic material being drawn prior to the completion of the drawing operation.

2,282,424
LINK FOR VENETIAN BLINDS
Marshall Laird, Los Angeles, Calif.
Application November 4, 1940, Serial No. 364,176
7 Claims. (Cl. 156—17)



1. A Venetian blind comprising parallel slats supported by hinged links disposed at opposite side edges of the slats, each of said links being hingedly connected to an adjacent link and comprised of an upper and a lower thin, flexible plate, one of said plates having therethrough a narrow elongated transverse slot whose opposite end portions are disposed at an angle to the intermediate slot portion and the other of said plates having an end portion inserted through said slot and opposite side projections which are bendable into the plane of the said end portions of the slot to permit passage therethrough and bendable into the plane of the intermediate slot portion to prevent escape from the slot.

2,282,425
METHOD OF MAKING UPHOLSTERY
John R. Millar, Reno, Nev., assignor to National Automotive Fibres, Inc., Detroit, Mich., a corporation of Delaware
Original application March 27, 1939, Serial No. 264,476. Divided and this application April 22, 1940, Serial No. 331,947
8 Claims. (Cl. 154—33)



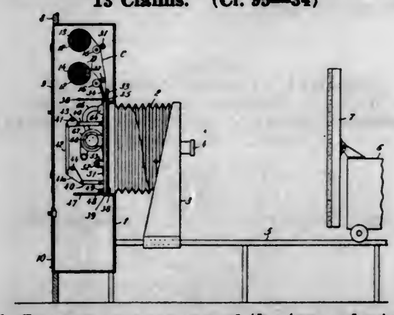
1. The method of manufacturing stuffed pleated upholstery which comprises continuously advancing spaced cover fabrics, forming said cover fabrics as they advance to provide pleat fullness; advancing batts into registry with the pleat fullness provided; breaking said batts intermediate said cover fabrics; definitely retaining said batts in laterally spaced relation; applying strips of uncured, soft rubber between said batts; advancing sheeting in relation to receive said batts and rubber between said sheeting and said fabrics; progressively terminating the definite separation of said batts and substantially simultaneously compressing said sheeting and fabrics against said rubber and vulcanizing said rubber.

2,282,426
THERMOSTAT
Charles R. Palmer, Glen Acres, Ohio
Application June 26, 1940, Serial No. 342,510
2 Claims. (Cl. 200—141)



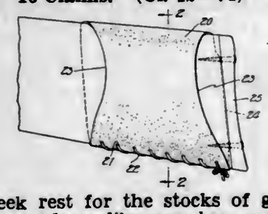
1. A thermostat, comprising: a sealed capillary tube having a bulb at one end of a fragility to rupture upon the development of a predetermined pressure in the bore of the tube, a thermo-expansive electro-conductive fluid contained in said bulb and rising in a column in the bore of the tube, a pair of spaced electrodes traversing the tube and in constant electric-conductive connection through the fluid in said bore under abnormal low degree thermo-conditions for maintaining an electric circuit, the head end of the bore of the tube supplied with a vapor under pressure and compressive by the rise of the fluid column thermally to a determined height to develop a pressure for rupturing the bulb and expel the fluid from the bore for breaking the circuit between the electrodes, the bore of the tube between the electrodes constricted for a control of the expulsion of the fluid when the bulb is ruptured to assure a complete discharge thereof between the electrodes.

2,282,427
PROCESS CAMERA
Frank T. Powers, Glen Cove, N. Y.
Application April 13, 1940, Serial No. 329,499
13 Claims. (Cl. 95—34)



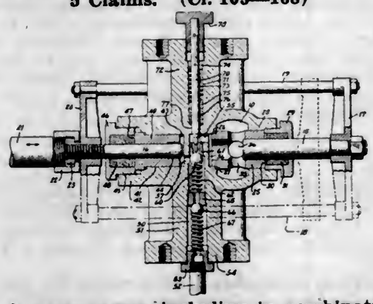
1. In a process camera of the type adapted to utilize successive variably measured portions of light sensitive film from a source of supply thereof within the camera and to hold said portion in the focal plane of the lens between a pressboard having a movable portion and a focal plane glass during exposure, the combination therewith of means visible from the exterior of the camera for indicating the length of the portion of light sensitive film moved into the image field, means for severing the said measured portion from the remainder of the supply, means for holding said severed portion adjacent to the face of said pressboard while restraining it against movement relative thereto, said source of supply and said holding means being relatively movable whereby the severed sheets may be moved independently of the supply source, said holding means comprising a suction means on said movable portion and applicable to the back of said severed portion and adapted to hold said severed portion in fixed position with respect to the movable portion of said pressboard, means for moving said movable portion for conveying said severed portion into a central portion of the image field of the camera, means visible from the exterior of the camera for indicating the position of said severed portion in the image field of the camera and means for releasing said severed portion.

2,282,428
ATTACHMENT FOR FIREARMS
Joseph Ruig Rigandi, Westerleigh, N. Y.
Application November 24, 1939, Serial No. 305,846
16 Claims. (Cl. 42—74)



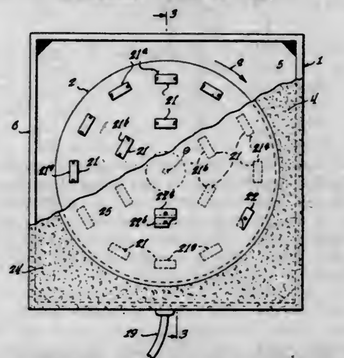
1. A cheek rest for the stocks of gun stocks comprising a sleeve-like member embracing a gun stock, a lacing for maintaining the sleeve-like member in position on a gun stock, and a single wing extension projecting from one side of the sleeve-like member for engagement between the end of a gun stock and the butt plate carried thereby to prevent movement of the sleeve-like member along the gun stock.

2,282,429
LUBRICATION PUMP
John Russell, Danbury, Conn., assignor to Pressurelube, Inc., Dover, Del., a corporation of Delaware
Application January 22, 1940, Serial No. 315,054
5 Claims. (Cl. 103—168)



1. A grease pump including in combination a supply of grease, a grease outlet, a pair of reciprocable plungers, one of said plungers having means for drawing grease from said supply and means for feeding same to the cylinder of the other plunger, means for delivering the grease forced from said cylinder by the second plunger to the outlet, valve means for normally preventing passage of grease from the cylinder of the second plunger to the cylinder of the first plunger, and selectively operable means for rendering said valve means ineffective thereby to permit an idling interchange of grease between said plunger cylinders.

2,282,430
DISPLAY DEVICE
Albert W. Smith, Milwaukee, Wis., assignor to Nestor Johnson Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application July 22, 1940, Serial No. 346,755
4 Claims. (Cl. 46—45)



1. In a device of the character described, comprising in combination with a display figure, a non-magnetic supporting plate for said figure, a turntable located below the plate and turnable about an axis substantially normal thereto, permanent bar magnets carried by the figure and and the turntable, respectively, for holding the figure in its display position on the plate and causing the figure to be slid over the plate in response to the rotary movement of the turntable, there being a plurality of magnets on the turntable arranged in a defined path about the axis of rotation of the turntable and disposed with the poles of said magnets of one sign facing in the direction of rotation of the turntable and the poles of the opposite sign facing in the reverse direction, there being a pair of permanent bar magnets on the figure to slidably support the figure on the plate, said magnets being joined together in side by side relation with the poles of said magnets of opposite sign at the opposite ends of the joined magnets to impart a whirling or turning movement to the figure to simulate waltzing in response to the attraction and repulsion forces set up between the magnets on the figure and on the turntable as the like and unlike poles of said magnets are brought into opposition in the travel of the figure over the plate from one turntable magnet to another, and means for rotating the turntable.

2,282,431
ORIENTING DEVICE AND METHOD
Ray W. Smith and Morris McDannald, Houston, Tex.
Application June 12, 1939, Serial No. 278,682
14 Claims. (Cl. 255—1.6)

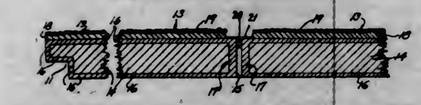
1. In apparatus of the character described a

guide adapted to be located in a well bore and having a section of non-magnetic material, a marker on the guide, a surveying instrument embodying a compass shaped to be lowered into the well along the guide to its home position with its compass in the non-magnetic field of said section, an impression receiving element as-



sociated with the instrument and positioned to land on the marker when the instrument reaches said home position and to co-act with the marker to receive indicating datum whereby the azimuthal position of the instrument relative to the guide, when the instrument is in home position, may be ascertained.

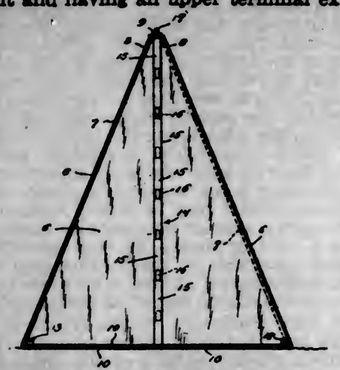
2,282,432
BUILDING COVERING MEMBER
Gilbert J. Snyder, South Bend, Ind., assignor to Mastic Asphalt Corporation, South Bend, Ind., a corporation of Indiana
Application April 22, 1939, Serial No. 269,542
In Canada November 14, 1938
2 Claims. (Cl. 117—56)



1. A building covering member comprising a rigid composition board formed of compacted fibrous material which is subject to peeling when coated with flexible plastic material, waterproof material impregnating said board to a shallow depth at all surfaces thereof whereby the fibrous material at all edges of said board is firmly bound together, and a coating of bituminous material covering one surface of said board, the depth of impregnation of the board portion underlying said coating being sufficient to substantially increase the rigidity of said portion and the coating adhering thereto and thereby resist peeling of said board, the major portion of the board being unsaturated to substantially retain the insulation properties of the board.

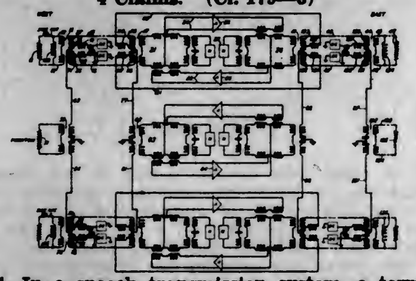
2,282,433
TENT
John E. Soderquist, Ferron, Utah
Application May 27, 1941, Serial No. 395,493
3 Claims. (Cl. 135—1)

1. A tent having a plurality of detachable triangular-shaped side sections and with the upper ends of said sections being disposed in lapped relation with each other and provided with registering openings, a pole centrally disposed within said tent and having an upper terminal extend-



ing through said openings and functioning to maintain said upper ends in connected relation and said tent in erected condition.

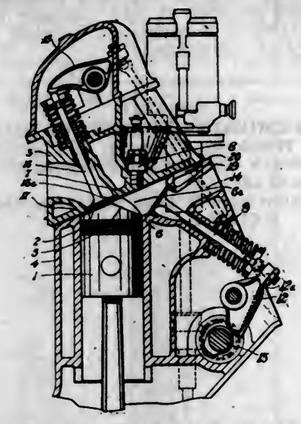
2,282,434
SPEECH TRANSMISSION SYSTEM
Elliot M. Staples, Hohokus, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 25, 1941, Serial No. 380,426
4 Claims. (Cl. 179—3)



1. In a speech transmission system, a terminal section, a two-wire line, a repeating coil for inductively coupling said terminal section and said line, said repeating coil including a primary winding section and a secondary winding section, a composite set for transmission of direct current signals, the secondary winding section of said repeating coil including two inductive portions of high impedance to voice frequencies and a portion of low impedance to voice frequencies but of high impedance to direct currents, means for connecting said composite set across said latter portion, and a path connected in shunt to the primary winding section of said repeating coil, said path being of low impedance with respect to low frequency currents, including direct currents, but of high impedance with respect to voice frequency currents.

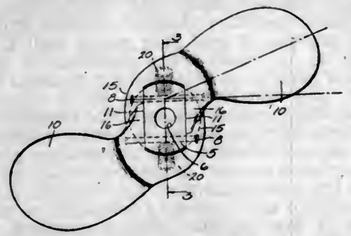
2,282,435
COMBUSTION CHAMBER OF SPARK-IGNITED INTERNAL COMBUSTION ENGINES
John Swaine, Coventry, England, assignor to The Rover Company Limited, Coventry, England
Application September 5, 1939, Serial No. 293,464
In Great Britain January 10, 1939
11 Claims. (Cl. 123—191)

1. A spark-ignition internal-combustion engine comprising a cylinder block having a cylinder bore therein, a piston adapted to reciprocate in said bore, a detachable cylinder-head having a continuous flat jointing face, said jointing face and the co-operating jointing face of the cylinder block being inclined at an acute angle to the axis of the bore, and said cylinder block having a part-spherical recess which is less than hemispherical formed in it to break into that side of



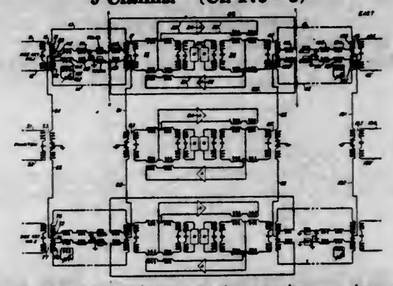
the bore which is the longest, the wall of said recess extending to the flat face of the cylinder-head and joining the bore by part-cylindrical portions, said piston having a head providing oppositely-inclined faces, one of said faces shaped to lie closely adjacent said flat jointing face of said cylinder-head at top-dead-centre and the other face shaped to provide part of the wall of the combustion space at top-dead-centre.

2,282,436
PROPELLER
Clifford Norman Taylor, Fargo, N. Dak., assignor to Outboard, Marine and Manufacturing Company, Waukegan, Ill., a corporation of Delaware
Application November 20, 1939, Serial No. 305,246
14 Claims. (Cl. 170—164)



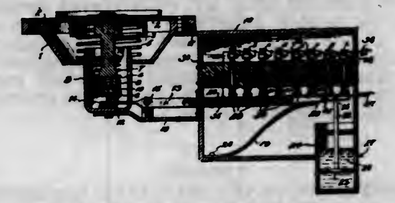
1. In a propeller, the combination with a laterally elongated hub provided with spaced transversely extending pintle means adjacent its respective narrow sides, of bifurcated blade root elements encircling the narrow sides of the hub and provided with interlocking extensions projecting along the wider sides of the hub, compression springs interposed between said root elements and the narrow sides of the hub and acting on said root elements in a direction to oscillate them toward a minimum pitch position, and blades carried by the respective elements and projecting therefrom beyond the respective wider sides of the hub.

2,282,437
SPEECH TRANSMISSION SYSTEM
Edmund R. Taylor, Mount Vernon, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 25, 1941, Serial No. 380,461
9 Claims. (Cl. 179—3)



1. In a speech transmission system, a terminal section, a two-wire line, a repeating coil for connecting said terminal section and said line, a composite set for transmission of direct current signals, the secondary of said repeating coil including two inductive winding portions of high impedance to voice frequencies and a portion of low impedance to voice frequencies but of high impedance to direct current, means for connecting the two legs of said composite set across said latter portion, means for neutralizing any disturbing effects set up in the windings of said repeating coil by passage therethrough of currents transmitted by said composite set, said neutralizing means including a winding connected in series with each leg of said composite set, said neutralizing windings being inductively coupled, and means for varying the closeness of the coupling of said neutralizing windings.

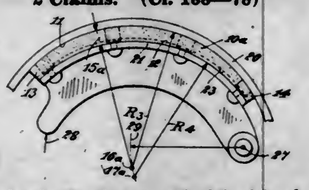
2,282,438
MILES PER GALLON GAUGE
Louis T. E. Thompson, Dahlgren, Va.
Application December 7, 1938, Serial No. 244,481
16 Claims. (Cl. 73—51)



1. An instantaneous miles per gallon gauge for automobiles and the like which comprises in combination a diaphragm fuel pump in which a diaphragm is provided to pump fuel, which diaphragm pulsates, at a rate proportional to the rate of travel of the automobile, from a base point of no-flow to a variable position representing the maximum instantaneous displacements of said diaphragm from its base point, the distance between said base point and said variable position being substantially directly proportional to the volume of flow of fuel, a link connected by means of a sliding connection with said diaphragm, means causing said link to float in a position corresponding to said maximum instantaneous displacements of said diaphragm, an indicator provided with an indicator needle, means connecting said indicator needle with said floating link for moving said needle in correlation

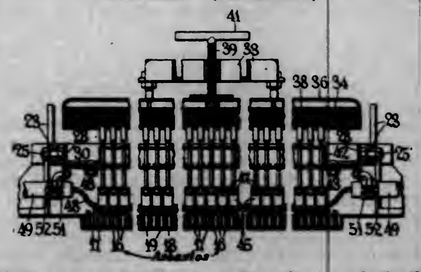
with the movements of said link, and a scale cooperating with said indicator needle for translating the motions of said needle into readings of miles traveled per gallon of fuel consumed.

2,282,439
AUTOMOBILE BRAKE
Sydney G. Tilden, Stewart Manor, N. Y.
Application September 21, 1939, Serial No. 295,844
2 Claims. (Cl. 188—78)



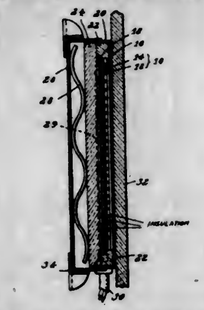
1. In a brake having a cylindrical brake drum, a brake shoe, adapted to operate within and towards the inside of the brake drum; a friction material segment adapted to be attached to the brake shoe and, when attached, interposed between the brake shoe and the brake drum, and to operate against the brake drum in frictional contact, and fastening means for attaching the friction material segment to the brake shoe, the extripetal surfaces of said fastening means being disposed tangentially to a circumferential arc the centre of which coincides with the centre of curvature of the brake shoe, and the radius of which is less than the radius of the brake drum, the outer curved surface of said friction material segment being of the same radius as that of the brake drum, and the inner curved surface being of the same radius as that of the brake shoe, the radius of the outer curved surface and that of the inner curved surface differing in that the inner curved surface has a smaller radius than the outer curved surface, the centre of curvature of the outer and inner curved surfaces being displaced eccentrically by an amount equal to the difference between the greatest thickness of the segment and the said radius differential, whereby said segment, in its initial condition in respect of the drum has inner and outer curved surfaces eccentric to each other with the greatest thickness at the central portion, and said segment when the shoe is in its final position in respect of the drum, will have eccentric inner and outer curved surfaces and will be thicker at the ends than at the central portion.

2,282,440
ELECTRICAL GLASS SPLITTING MACHINE
Joseph F. Turke, Collins, N. Y.
Application October 6, 1938, Serial No. 233,606
4 Claims. (Cl. 49—50)



1. In apparatus for severing glass and similar material, an elongated electrical resistance element for engagement with a surface of the material to be severed, a plurality of insulator units supporting said electrical resistance element along its length, a pressure member for exerting pressure on said insulator units and spaced therefrom, and a pad of resilient material between the insulator units and the pressure member and positioned to bear against one end of each insulator unit to transmit pressure from the pressure member to said insulator units to urge said electrical resistance element against the surface of said material.

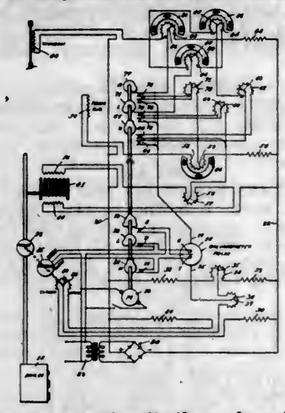
2,282,441
THERMOMETER CONSTRUCTION
Fred W. Whitlock, Freeport, Ill., assignor to Micro Switch Corporation, Freeport, Ill., a corporation of Illinois
Application April 7, 1938, Serial No. 200,809
2 Claims. (Cl. 201—63)



1. In combination in a thermometer construction, a flat case having a thin metal wall adapted to lie against one side of a partition in good thermal engagement therewith, a temperature sensitive electrical resistance element, thin electrical insulation of relatively good heat conductivity between said temperature sensitive element and the thin metal wall of said case, and a pack of heat insulating material in said case on the other side of said temperature sensitive element, and a pack of thermal insulating material surrounding the margin of said temperature sensitive element within said case so that said temperature sensitive element engages only the central portion of said thin metal wall that is adapted to lie against the partition as aforesaid, said pack of heat insulating material being of such size and effectiveness as to effectively insulate said temperature sensitive element from the temperature of the space within which said case is located, whereby said temperature responsive resistance element is predominantly responsive to the temperature of the opposite side of said partition and assumes a temperature nearer to that of the opposite of said partition than to that of said space.

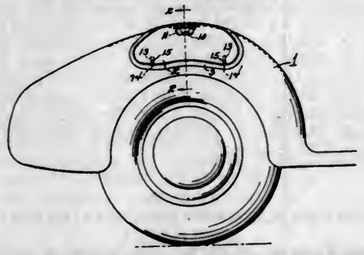
2,282,442
SYSTEM FOR MEASUREMENT AND CONTROL
Fred W. Whitlock, Freeport, Ill., assignor to Micro Switch Corporation, Freeport, Ill., a corporation of Illinois
Application April 7, 1938, Serial No. 200,810
14 Claims. (Cl. 236—78)

3. In combination in an electrical measuring and control system, an electrical measuring bridge circuit including two main bridge branches connected in parallel, a current controlling element in one of said main bridge branches responsive to a first condition, a current controlling element in the second main bridge branch responsive to a second condition, an impedance coupling branch connected to said main bridge branches at points thereof intermediate the ends thereof, an output connection to said coupling branch at an output point intermediate the points of connection of said coupling branch to said two main bridge branches, a galvanometer in said output connection, regulating means responsive to said galvanometer for regulating at least one of said two conditions to vary a relation between said two conditions, but operable to vary said relation in only one direction of change, contacts



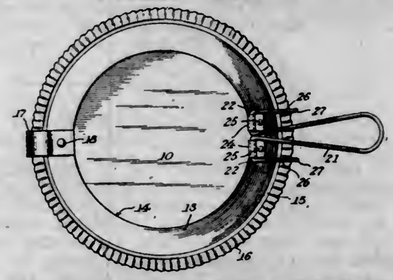
for opening the circuit through said coupling branch, said contacts being so located in said coupling branch with respect to the point of connection of said galvanometer to said coupling branch and the points of connection of said coupling branch to said two main bridge branches that if said contacts should fail to close and an error should result therefrom in the response of said galvanometer to said two current controlling elements in said main bridge branches, such error would be in such a direction as to indicate to said galvanometer an error in the value of said relation between said two conditions which error in said relation would be in that direction in which the galvanometer could not tend to counteract the error.

2,282,443
VEHICLE MUDGUARD
William C. Wilson, Perth Amboy, N. J.
Application April 14, 1941, Serial No. 388,527
1 Claim. (Cl. 280—152)



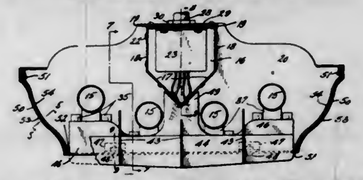
In a vehicle mud guard including a body having an elongated opening extending longitudinally of the top and outer side thereof to allow access below the guard, a hinged closure shaped to fit the opening, and the improvement consisting of a stop member for said closure and being of collar formation to fit the opening, said stop member being slit crosswise at an angle to facilitate its insertion within the opening and including a channel element fixed to the body about the edge portion of the opening with said edge portion mounted in the channel, and a flange formed on the channel element and extending into the opening in the path of the closure for supporting the latter in closed position flush with the upper face of the body.

2,282,444
PIE PAN LID
Lincoln H. Winters, Grant County, N. Dak.
Application March 31, 1941, Serial No. 386,181
3 Claims. (Cl. 53—6)



1. A pie pan lid comprising a dished annulus adapted to rest with its lower edge upon the rim of a pie pan, an annular bead on the annulus spaced above the bottom edge of the annulus and adapted to press layers of pie crust firmly together against the rim of the pie pan and prevent leakage of juices from a pie, a spring clip secured to the annulus adapted to spring underneath the rim of the pie pan, and a handle pivotally connected to the annulus having integral spring hooks adapted to spring under the pie pan rim and coact with the spring clip in removably securing the lid to the pie pan.

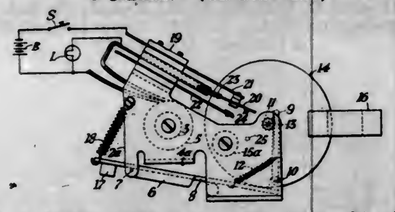
2,282,445
LIGHTING FIXTURE
Harold B. Alderman and Roy R. Wiley, Buffalo, and Wallace K. Wiley, Tonawanda, N. Y., assignors to R. & W. Wiley, Inc., Buffalo, N. Y.
Application May 9, 1940, Serial No. 334,188
10 Claims. (Cl. 240—78)



1. A lighting fixture for use with tubular illuminators and including an elongated frame for supporting a plurality of illuminators in substantially parallel relation to each other and to said frame, said frame including a longitudinally extending hollow beam formed of sheet material and having a side thereof substantially open, end plates secured to and closing the open ends of said beam and extending laterally and downwardly therefrom, means on said end plates for supporting the ends of said illuminators, spaced retaining bars extending between and secured to said end plates, a louvre assembly in-

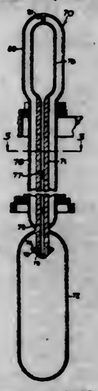
cluding a plurality of spaced upright webs extending lengthwise and transversely of said fixture, said longitudinal webs having their ends supported by said end plates, and panels of translucent material arranged at the sides of said fixture and supported by said retaining bars.

2,282,446
FLASHER RELAY
Harry E. Ashworth, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application January 24, 1941, Serial No. 375,753
6 Claims. (Cl. 172—126)



5. A flasher relay comprising, in combination, an operating magnetic circuit including a movable tractive armature, a retarding magnetic circuit in shunt therewith, an energizing winding for both said magnetic circuits, a retarding vane operated by said armature and moving in the field of said retarding magnetic circuit, the retarding force provided by said retarding magnetic circuit increasing with an increase in energization of said winding to thereby offset the increase in force of the operating magnetic circuit and provide a substantially uniform delay time for said relay, a control contact for said winding, and means operated by said retarding vane for causing said contact to open or close according as said vane approaches one or the other end of its stroke respectively, said contact remaining in its last operated position to thereby provide flashing operation of said relay as long as energy is supplied thereto.

2,282,447
THERMAL ENERGY INDICATING APPARATUS
George E. Barnhart, Pasadena, Calif.
Application January 19, 1940, Serial No. 314,632
3 Claims. (Cl. 73—340)

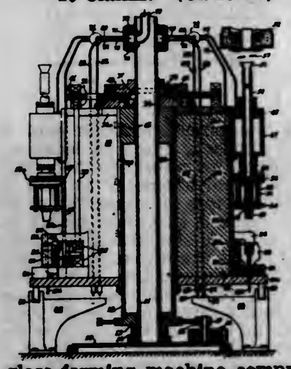


2. In an instrument of the class described, a bulb having a transparent capillary tube extending therefrom and having a second bulb communicating with the capillary tube at the end of the latter remote from the first bulb, a drop of opaque liquid in said tube and a filling of gas in the tube and bulb at each side of the drop, and heat insulating means about said tube and one of said bulbs, the heat insulating means about said tube being transparent.

2,282,448
PRINTING PLATE AND COMPONENT FOR MAKING THE SAME
Hans Beck, Ludwigshafen-on-the-Rhine, and Walther Kuehne, Mannheim, Germany, assignors, by mesne assignments, to E. I. du Pont de Nemours and Company, Wilmington, Del.
No Drawing. Application January 22, 1940, Serial No. 315,024. In Germany January 13, 1939
4 Claims. (Cl. 101—395)

1. A printing form composed essentially of a superpolyamide.

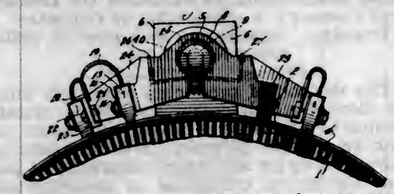
2,282,449
GLASS FORMING MACHINE
Samuel D. Bert, Washington, Pa., assignor of one-third to Maurice A. Yorkin and one-third to James D. Martin, both of Washington, Pa.
Application February 8, 1940, Serial No. 317,843
10 Claims. (Cl. 49—5)



1. A glass-forming machine comprising a rotatable mold carrier, molds mounted on said carrier, a vertically-disposed presser cylinder mounted on the carrier above each mold, a piston in the cylinder, a tubular piston rod extending through the cylinder and connected to the piston, a bracket carried by the lower end of the tubular rod, a pressing plunger carried by said bracket and normally in axial alignment with the piston rod, means for admitting pressure to the ends of the cylinder to effect raising and lowering movement of the piston rod and said plunger to perform pressing operations in a mold, and means for moving the plunger laterally out of alignment with the lower end of the piston rod when the plunger has been lifted from the mold, to permit charges of glass to be introduced into the mold through the said rod.

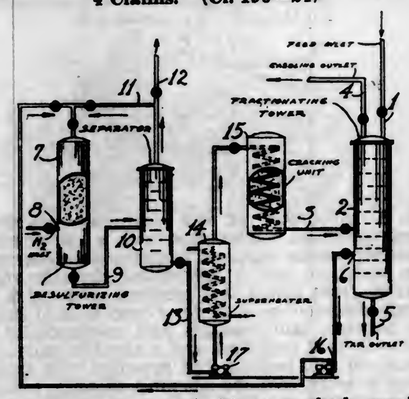
2,282,450
BRUSH RIGGING FOR ELECTRICAL APPARATUS
George Alvin Brettell, Jr., Newark, N. J., assignor to American Transformer Company, Newark, N. J.
Application May 8, 1941, Serial No. 392,457
12 Claims. (Cl. 171—324)

1. A brush rigging for the purpose described including a mounting stud having a plurality of spaced grooves therein, a slotted yoke positioned in one of said grooves, the yoke having arms extending therefrom in the same direction, each arm carrying a collector ring brush and also having means for carrying brush connectors, brush units, each comprising a metallic plate having a slot therein positioned in certain other of said



stud grooves, each plate carrying a current-conducting brush at one end and a brush of insulating material at the other end, the two brushes of the unit being positioned to run on the same brush track, and individual spring means for the yoke and each plate for holding the yoke and brush plates in operative position on their respective brush tracks.

2,282,451
DESULPHURIZING AND CRACKING PROCESS
Benjamin T. Brooks, Old Greenwich, Conn., assignor to Standard Alcohol Company
Application December 29, 1938, Serial No. 248,158
4 Claims. (Cl. 196—24)



1. A process for making cracked gasoline which comprises subjecting a feed stock of relatively heavy hydrocarbons containing about .1 to about 1% sulphur to mild cracking conditions at a temperature of about 360° C. and in the presence of hydrogen, hydrogenating catalyst and added hydrogen sulphide to remove sulphur from the feed stock and to produce about 2% to 5% of gasoline, thereafter removing hydrogen sulphide, hydrogen and gasoline from the product, and then subjecting the remainder of the product to more severe cracking conditions than employed in the first cracking operation to produce the maximum yield of gasoline.

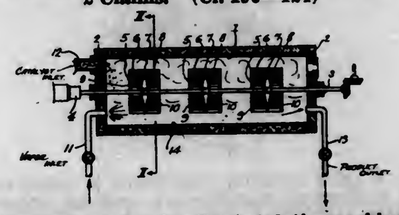
2,282,452
METHOD OF CONSTRUCTING THE FOUNDATIONS OF CELLARLESS HOUSES
Horatio Whittemore Brown, Concord, Mass.
Application October 28, 1938, Serial No. 237,451
4 Claims. (Cl. 72—77)

1. The improvement in the art of constructing cellarless houses which consists in preparing a foundation by first excavating holes for piles, of a width greater than the diameter of the pile and of a depth to reach below frost, pouring concrete to cover the bottom of the holes and form pedestals for the piles, placing a thin metal tube as a form on the pedestals, pouring concrete in the



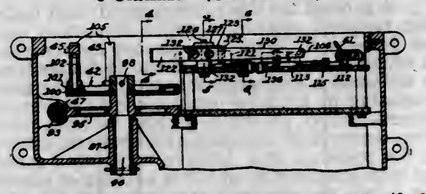
tube, back filling around the tube and withdrawing the tube as the pouring and back filling continue and pouring a concrete slab upon the piles and the earth between them to form a monolithic foundation, comprising concrete piles supported on the earth below frost line and arches of normal, meaning thereby non-inverted, form supported on the piles.

2,282,453
CATALYTIC REACTION APPARATUS
Donald L. Campbell, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application October 12, 1938, Serial No. 234,555
2 Claims. (Cl. 196—124)



2. An apparatus for the catalytic cracking of hydrocarbon oils which comprises an elongated horizontal reaction chamber, inlet for introducing the oil vapors to be cracked and finely divided catalyst into one end of said reaction chamber, outlet for withdrawing cracked products and catalyst from the opposite end of said reaction chamber, a rotatable shaft extending longitudinally through said reaction chamber, a plurality of sets of radial arms rigidly mounted on said shaft at spaced points therealong, a fan consisting of a wheel with a plurality of spaced blades secured to each set of said radial arms, said blades being pitched in the direction of rotation of said shaft to thereby disperse said finely divided catalyst in the oil vapors to be cracked.

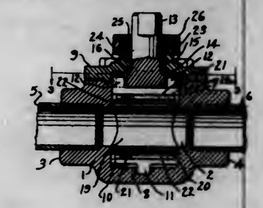
2,282,454
ELECTRIC CIRCUIT CONTROL
James H. Cannon, Los Angeles, Calif.
Application August 2, 1940, Serial No. 350,012
8 Claims. (Cl. 200—47)



1. A limit switch of the character set forth for controlling an electrically-actuated member at a limit position of the member, said switch comprising: a pair of switch contacts; a first means

operatively connected with said pair of contacts, said means being movable in one direction to cause said contacts to separate and in the opposite direction to cause the contacts to close together; a second means movable between a circuit-closing position and circuit-opening position, said second means being mechanically responsive to said electrically-actuated member to move to circuit-opening position when said member approaches said limit position and to move to circuit-closing position as said member initially retreats from said limit position; means yieldingly connecting said second means with said first means to cause said first means to tend to follow the movements of the second means in both directions; and means operatively connected with said second means to delay movement of said first means during initial movement of the second means in both directions.

2,282,455
VALVE ASSEMBLY
Walter L. Church, Houston, and William K. Holleron, Harlingen, Tex.
Application March 25, 1939, Serial No. 264,078
6 Claims. (Cl. 251—102)



1. A valve assembly comprising a casing having a flowway therethrough and an approximately cylindrical bore at substantially right angles to the flowway, an approximately cylindrical valve formed of longitudinal sections in the bore and having a passageway therethrough, means for turning the valve to bring said passageway into and out of registration with the flowway through the casing, yieldable means between said sections and sealing members between the sections on opposite sides of the passageway extending across the valve.

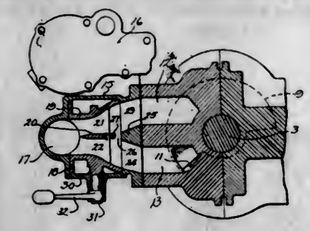
2,282,456
PRODUCTION OF HIGH MOLECULAR WEIGHT RESINOUS SUBSTANCES
Friedrich Christmann and Heinz Lemme, Ludwigshafen-on-the-Rhine, and Hans Bueren, Mannheim, Germany, assignors, by mesne assignments, to William E. Currie, New York, N. Y.
No Drawing. Application August 23, 1938, Serial No. 226,252. In Germany August 27, 1937.
3 Claims. (Cl. 260—29)

1. A process for the production of high molecular resinous substances which comprises causing gaseous to liquid unsaturated hydrocarbons in which the unsaturation is due to double bonds to act upon a substance selected from the group consisting of resinous organic condensation and polymerization products, derived at least partly from compounds containing an aromatic nucleus, in the presence of a halogen containing solvent for said components which is capable of dissolving boron fluoride and selected from the class consisting of dichlorethyl ether and halogen containing normally liquid, saturated, aliphatic hydrocarbons containing not more than 2 carbon atoms, by the agency of a substance selected from the class consisting of boron fluoride and bleaching earth treated with hydrogen fluoride.

2,282,457
DEHYDRATING ALCOHOL
Charles A. Cohen, Elizabeth, N. J., assignor, by mesne assignments, to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 29, 1939, Serial No. 311,591
2 Claims. (Cl. 202—57)

1. The method of producing absolutely anhydrous alcohol which comprises adding metallic aluminum to a mixture of alcohol and water containing an amount of water up to its azeotropic mixture, adding an activator comprising at least one of the group consisting of mercuric salt, iodin and stannic chloride, warming the mixture to initiate the reaction and after the reaction has subsided, fractionating off the absolutely anhydrous alcohol.

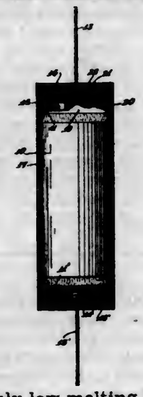
2,282,458
CARBURETOR
Warren C. Conover, Waukegan, Ill., assignor to Outboard, Marine & Manufacturing Company, Waukegan, Ill., a corporation of Delaware
Application August 1, 1940, Serial No. 349,078
9 Claims. (Cl. 123—119)



1. A carburetor of the character described comprising the combination with a carbureting chamber having separate passages and intervening partition and a cylindrical throttle valve bearing from which said passages open, of a jet nozzle disposed on a minor chord of said bearing between said passages and substantially in line with said partition, and a throttle valve rotatable in said bearing and provided with transverse passage sections opening directly toward the respective passages and an intervening partition substantially aligned with said jet nozzle and said first mentioned partition, said jet nozzle being spaced between said partitions.

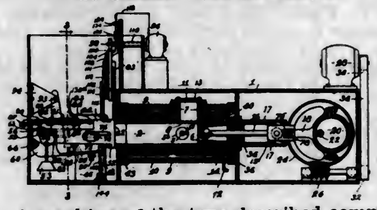
2,282,459
ELECTROLYTIC CAPACITOR
Paul McKnight Deeley, Plainfield, N. J., assignor to Cornell-Dubilier Electric Corporation, South Plainfield, N. J., a corporation of Delaware
Application August 30, 1940, Serial No. 354,821
8 Claims. (Cl. 175—315)

1. The combination with a hermetically sealed container enclosing a device liable to develop excess gas during operation, said container having an opening closed by a mass of sealing material being solid at normal temperature, of a vent structure comprising a vaulted member arranged intermediate said device and sealing mass to provide a space for accumulating gases developed by said device, a tube extending from said element through said sealing mass and connecting said space with the outside atmosphere, and a



filling of relatively low melting point sealing substance within said tube.

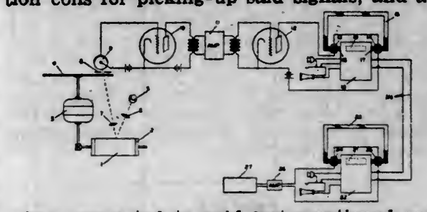
2,282,460
DRY-ICE PRESS
Robert B. Dickey, deceased, late of Oklahoma City, Okla., by Edith Blanche Dickey, now by marriage Edith Blanche Beasley, executrix, Kansas City, Mo., assignor to Elizabeth E. Cummins, Kansas City, Mo.
Application February 20, 1941, Serial No. 379,857
20 Claims. (Cl. 62—121)



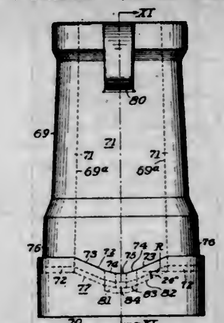
1. A machine of the type described comprising a chamber open at one end, a gate for closing said open end, a reciprocatory plunger in said chamber adapted to force snow against said gate to compress the snow into a block, power driven rotary gearing for automatically operating said plunger, and means for opening said gate when the same is subjected to a predetermined pressure by the block so that the latter may be forced outward through the open end of the chamber by the plunger.

2,282,461
ELECTRO-OPTICAL SYSTEM AND APPARATUS
Garett Vander Veer Dillenback, Jr., Slingerlands, N. Y., assignor, by mesne assignments, to Times Telephoto Equipment Inc., New York, N. Y., a corporation of New York
Application October 26, 1936, Serial No. 107,524
19 Claims. (Cl. 178—5.6)

1. In combination, a telephone line having a subscriber station including a phone-box unit at opposite ends thereof, an induction coil in each phone-box unit connected in said line at each of said stations, a transmitter for generating a carrier wave modified by signals, inductance means coaxial with one of said induction coils for electrically inducing said generated signals into said line when said stations are in operative connection, means coupled with the other of said induction coils for picking-up said signals, and a receiver connected to said last-mentioned means to be operated by said picked-up signals.

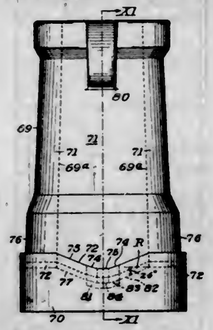


2,282,462
INGOT
George A. Dornin, Baltimore, Md.
Application September 16, 1941, Serial No. 410,982
7 Claims. (Cl. 22—139)



1. An ingot having a convex bottom surface, each of the angles between the convex bottom surface adjacent the sides of the ingot which define the thickness of the ingot and the plane normal to the axis of the ingot, as expressed in degrees, when said angle is measured in a plane parallel to the axis of the ingot and normal to said sides of the ingot, being approximately equal to the thickness, as expressed in inches, of the bottom end of the ingot.

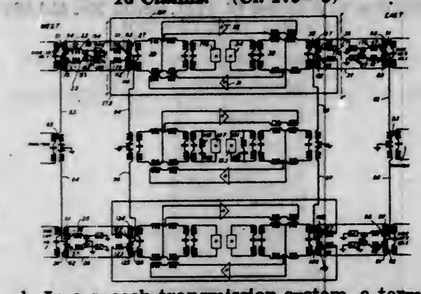
2,282,463
INGOT MOLD AND INGOT MOLD STOOL
George A. Dornin, Baltimore, Md.
Application September 16, 1941, Serial No. 410,983
7 Claims. (Cl. 22—139)



1. Apparatus for casting ingots, comprising an ingot mold and an ingot mold stool, the stool having a cavity for forming a convex bottom sur-
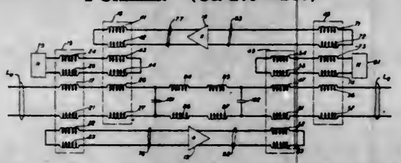
face on an ingot, each of the angles between the surface of the cavity adjacent the sides of the ingot mold which define the thickness of the ingot and the plane normal to the axis of the ingot mold, as expressed in degrees, when said angle is measured in a plane parallel to the axis of the ingot mold and normal to said sides of the ingot mold, being approximately equal to the thickness, as expressed in inches, of the bottom end of the ingot mold cavity.

2,282,464
SPEECH TRANSMISSION SYSTEM
Paul G. Edwards, Verona, N. J., and Edmund R. Taylor, Mount Vernon, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 25, 1941, Serial No. 380,446
16 Claims. (Cl. 179—3)



1. In a speech transmission system, a terminal section, a repeater section, a two-wire line connecting said terminal section and said repeater section, the two wires of said line being balanced to ground, a transmission element of relatively low impedance with respect to voice frequencies connected across the two wires of said line at the terminal side, phantom derivation means connected to said transmission element, and means for connecting a direct current source or a source of alternating current of a frequency substantially less than voice frequency across said transmission element of relatively low impedance with respect to voice frequencies.

2,282,465
SPEECH TRANSMISSION SYSTEM
Paul G. Edwards, Verona, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 27, 1941, Serial No. 380,909
4 Claims. (Cl. 179—170)



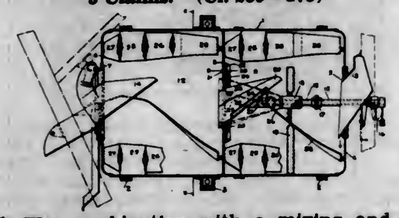
1. In combination with a two-way line divided into sections, a two-way repeater comprising two one-way amplifying paths for repeating in respectively opposite direction between opposite sections of line, a separate differential transformer included between each line section and said two paths, each such transformer comprising a pair of magnetic cores, line windings connected to the respective line sections and mounted in each case on both cores of the respective transformer, a balancing artificial line for each line section, windings mounted on both cores of the respective transformer and connected to the respective artificial line, other windings mounted on certain of said cores in the case of each transformer and connected respectively in circuit with the input side of one of said one-way paths and the output side of the other of said one-way paths, and a path for through transmission of currents of low frequencies including direct current extending from one line section to the other through said line windings of both transformers in series, said path consisting, between the respective points of connection to said line windings, of two lines and means for excluding therefrom voice frequency currents.

2,282,466
FIBROUS MATERIAL
Rudolf Etzkorn, Murg, Baden, Germany
Application February 4, 1938, Serial No. 188,764
In Germany February 9, 1937
3 Claims. (Cl. 252—14)



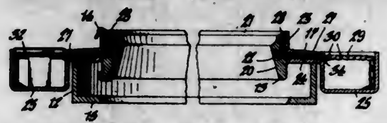
1. In a stuffing box a packing comprising artificial fibers and particles of graphite incorporated in and finely distributed throughout the said fibers, the percentage of graphite being above 10% of the weight of the complete fiber.

2,282,467
ROTARY CONCRETE MIXER
John P. Faber, Dunellen, N. J., assignor to Ransome Concrete Machinery Company, Plainfield, N. J., a corporation of New Jersey
Application October 12, 1938, Serial No. 234,530
3 Claims. (Cl. 259—175)



1. The combination with a mixing and discharging device comprising a rotary drum having charging and discharging openings and means for charging thereinto materials to be mixed and discharging the mixed materials therefrom in batches and a partition in the interior thereof dividing said drum into a plurality of compartments said partition having an opening therein through which materials may be transferred from one compartment to another, of an open transfer chute for transferring materials having one end located adjacent said opening and flaring from said opening toward said charging opening, means for rotating said chute to transferring and non-transferring position said chute being mounted in position inclined toward said transfer opening in transferring position and inclined away from said last named opening and the partition in non-transferring position, an annular flange on and extending from said chute substantially in plane parallel with the plane of said partition, an annular ring of flexible material extending from said flange into proximity to said partition and a ring on said partition extending over the said ring of flexible material and the interstice between it and the partition.

2,282,468
SELF-LUBRICATING SPINNING RING
Charles Fillinger, Buffalo, N. Y., assignor to Herr Manufacturing Company, Inc., Buffalo, N. Y., a corporation of New York
Application May 23, 1941, Serial No. 394,810
1 Claim. (Cl. 57—120)

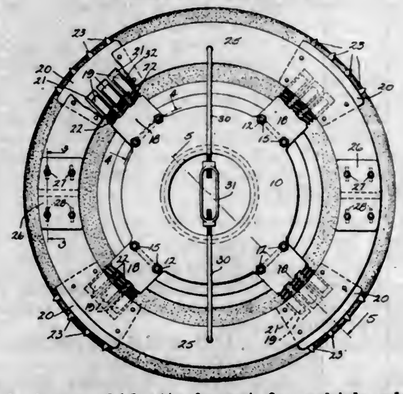


A device of the character described, comprising a spinning ring having a traveler-engaging bearing face thereon and a lubricant-conducting port opening onto such face, a lubricant-receiving well applied to the ring having a passage leading therefrom and communicating with said ring-port, and a wick threaded through said port and said passage and in lubricant-conducting relation at one end with said well, said wick including a core of textile material and a wire coiled about that portion thereof extending from the well to said port to regulate the constant flow of lubricant to the ring-bearing face, said wick having a stop thereon for limiting its threading operation through said passage and ring-port.

2,282,469
PRODUCTION OF ETHERS FROM ALCOHOLS
Per K. Frolich, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application May 11, 1938, Serial No. 207,310
6 Claims. (Cl. 260—614)

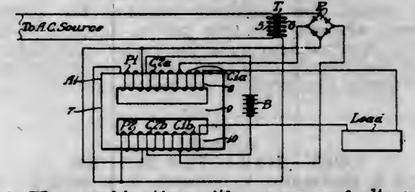
2. The direct conversion of alcohols into mixed ethers, comprising passing a mixture of at least 50% of a primary alcohol and a tertiary alcohol at a temperature of 150° to 350° F. over an inert carrier supporting a hydrating acid catalyst and separating the ethers thereby formed.

2,282,470
NONSKID ATTACHMENT FOR VEHICLE WHEELS
Archie E. Gilbert, Madison, Wis.
Application September 19, 1941, Serial No. 411,444
14 Claims. (Cl. 301—40)



1. A non-skid attachment for vehicle wheels, comprising the combination of a ring-shaped mounting adapted to be attached to the outer side face of a vehicle wheel and provided with guiding projections in a plane parallel with the wheel, ground gripping members in which said projections are socketed, positioning plates, each connecting a plurality of ground gripping members, adjustable linkage connecting the positioning plates across the central portion of the space occupied by the attachment, and means for manually adjusting said linkage to hold the positioning plates and their ground gripping members either in active or inactive position.

2,282,471
ELECTRICAL REGULATING APPARATUS
Linnie K. Hedding, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application October 6, 1939, Serial No. 298,299
3 Claims. (Cl. 175—363)

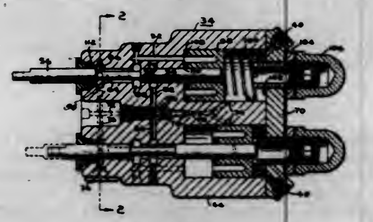


1. The combination with a source of alternating current, a direct current load, a rectifier interposed between said alternating current source and said load, and a battery connected across said load, of a three-legged magnetizable core, an alternating current winding comprising two coils connected in parallel and having like number of turns, said alternating current winding being interposed between said source and said rectifier and said two coils being disposed one on each outer leg of said core in such manner that each coil sends flux in opposition to the other in the outer legs of the core but both coils send flux in agreement in the middle leg of the core, a first control winding and a second control winding each of which comprises two coils connected in series and having equal number of turns, said first control winding being interposed between said rectifier and said load and said second winding being interposed between said battery and said load, one coil of each of said control windings being disposed on one of the outer legs and the other coil of each of said control windings being disposed on the other outer leg of said core in such manner that the resultant of the fluxes set up by said control windings circulates in a magnetic circuit which includes both outer legs of said core in series, whereby the output voltage of said rectifier is maintained substantially constant by current flowing in said control windings and said load is supplied with substantially ripple-free unidirectional current.

2,282,472
HYDRAULIC BRAKE
Kenneth R. Herman and Ralph L. Tweedale, Detroit, Mich., assignors to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application October 23, 1939, Serial No. 300,780
6 Claims. (Cl. 60—54.5)

1. In a hydraulic motion transmitting system for brakes or the like the combination of a motor cylinder for applying the brake, a source of fluid under pressure higher than the maximum ever required at the motor cylinder, a master cylinder in closed communication with the motor cylinder, manually-actuated means to displace fluid

from the master cylinder, valve means rendered effective during initial displacement of the manual means for applying fluid pressure from said source to the motor cylinder, and a free piston intermediate the source and the motor cylinder



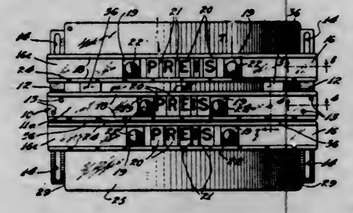
and means for positively limiting the stroke thereof, whereby the free piston forms a volumetric displacement metering device to predetermine the volume displaced from the source and the volume displaced to the motor cylinder.

2,282,473

COPY CHARACTER HOLDER

Jacob A. Hoffmann, Lyndhurst, N. J., assignor to H. P. Preis Engraving Machine Co., Newark, N. J., a corporation of New Jersey

Application November 14, 1940, Serial No. 365,684
6 Claims. (Cl. 90—62)



1. A copy character holder for engraving machines comprising a bar for holding copy characters said bar being provided with a pair of upstanding longitudinal walls recessed to define a longitudinal channel, copy characters positioned in said channel, means engaging the channel to displaceably secure the copy character thereto and a pair of end members secured to said bar in spaced parallel relation, said end members being adapted to engage the edges of a base plate of an engraving machine, and clamping means carried by one of said end members adapted to engage said base plate for clamping the copy character holder thereto.

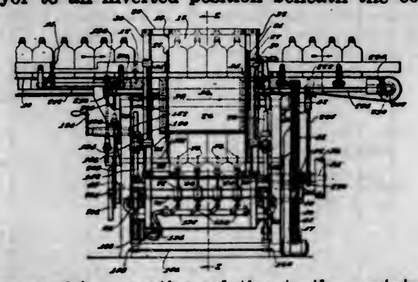
2,282,474

RECEPTACLE CLEANING MACHINE

Stanley R. Howard, Milton, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts

Application October 6, 1937, Serial No. 167,571
13 Claims. (Cl. 15—26)

1. In a container cleaning machine, in combination, a conveyor for transporting the containers into and from the machine in an upright and substantially vertical position, container cleaning means disposed beneath the conveyor, a stationary drum disposed between said conveyor and said container cleaning means, and means for transferring the containers around said drum from an upright position on the conveyor to an inverted position beneath the conveyor and in operative relation to the container cleaning means.

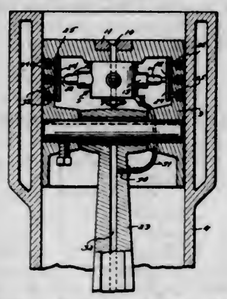


2,282,475

PISTON RING EXPANDER

Joseph L. Ippolito, Jr., Ansonia, Conn.

Application April 7, 1941, Serial No. 387,368
1 Claim. (Cl. 309—35)



In combination with a power piston having ring grooves in the skirt thereof and rings in said grooves, a chamber within said piston and having a plurality of cylinders extending radially therefrom, piston elements working in said cylinders, ring-engaging elements having working engagement in openings provided therefor in the skirt of the piston and engaging the rings in said ring grooves for expanding the rings, an operating connection between said ring-engaging elements and said piston elements for transmitting movement from the piston elements to said ring-engaging elements for causing expansion of the piston rings, a connecting rod for said piston and having an oil passage therein, and a conduit connection between the oil passage in said connecting rod and said chamber for conducting oil under pressure to said chamber for action on said piston elements; and said conduit connection embodying a check valve assembly for substantially automatically controlling the pressure of oil within said chamber.

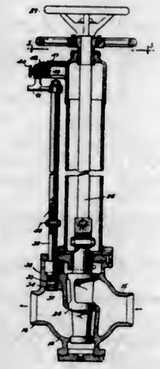
2,282,476

VALVE MECHANISM

James M. Jenkins, Philadelphia, Pa., assignor to Andale Company, Philadelphia, Pa., a corporation of Pennsylvania

Application April 1, 1941, Serial No. 386,242
7 Claims. (Cl. 184—104)

1. For an oil circulating and cooling system or the like incorporating an oil supply and a pair of oil coolers each having means for draining oil therefrom, a valve casing associated with said system and having primary inlet and outlet connections adapted to be connected in series with said supply and with a point of use, and further having two pairs of secondary inlet and outlet connections for circulating oil to the coolers, controllable valve mechanism in said casing providing for alternative circulation through either one of said coolers, and separately controllable valve means in said casing for refilling either one of said coolers after oil has been drained therefrom.

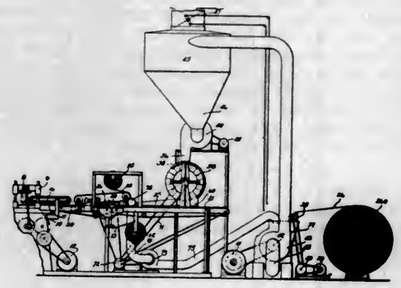


2,282,477

CONTINUOUS BAT ASSEMBLY MACHINE AND METHOD

Curt G. Joa, Sheboygan Falls, Wis., assignor to Curt G. Joa, Inc., Sheboygan Falls, Wis., a corporation of Wisconsin

Application April 15, 1939, Serial No. 268,074
18 Claims. (Cl. 154—29)



1. A method of manufacturing a bat or web which consists in mechanically projecting fibrous material into a restricted throat for impact assembly thereof upon previously deposited material and continuously withdrawing from said throat a bat of such material packed therein.

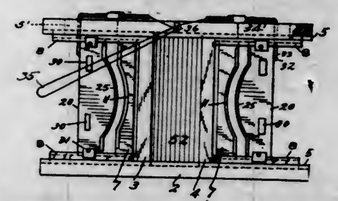
10. A device of the character described, comprising the combination with a support and means for feeding a web thereover, of a fiber feeding device comprising means for projecting loose fibers through space at substantial velocities upon said web and previously projected fibers in the course of movement of said web and at a rate of movement materially in excess of the rate of web movement.

2,282,478

LEATHER-STRETCHING APPARATUS

Carl Hugo Johanson, Los Angeles, Calif., and Walfrid Nordstrom, Lund, Sweden; said Nordstrom assignor to said Johanson; Oscar W. Hauge executor of said Carl Hugo Johanson, deceased

Application October 22, 1940, Serial No. 362,234
In Sweden July 1, 1939
3 Claims. (Cl. 149—21)



1. A skin stretching machine including a frame, a pair of slides operating on the frame, means for operating the slides concurrently inward together or outward together, and opposite pairs of gripping assemblies one for each slide each pair entirely removable from its slide for type change.

2,282,479

ROOFING GRANULE AND THE LIKE

Robert T. Johnston, deceased, late of Plainfield, N. J., by Clara E. Johnston, administratrix, Newark, N. J., assignor, by mesne assignments, to Bakelite Corporation, a corporation of New Jersey

No Drawing. Application September 25, 1936, Serial No. 102,542
2 Claims. (Cl. 91—70)

1. Process of preparing roofing having a surfacing layer of granules which comprises providing a base with a bitumen coating, applying to granules an oil-resin composition hardenable to a non-softening condition and selected from the group consisting of drying oil-phenolic resin compositions, fatty acid modified alkyd esters and their mixtures, partially hardening the applied composition on the granules to a condition characterized by adhesiveness to bitumen coatings, fixing the so-treated granules as a surfacing layer on the bitumen coating of the base with exposed portions out of contact with the coating, and subsequently further hardening the exposed non-contacting portions of the composition on the granules to a non-softening condition.

2,282,480

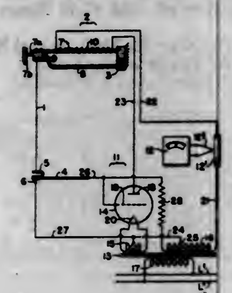
MEASURING AND CONTROL APPARATUS

Earl A. Keeler, Norristown, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania

Application March 31, 1938, Serial No. 199,118
9 Claims. (Cl. 177—351)

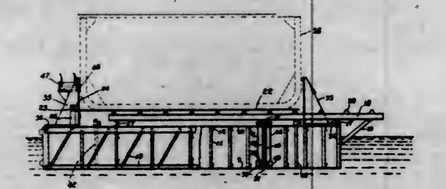
1. Measuring apparatus including a movable member, a movable support, a device carried by said movable support and responsive to the variations in a variable condition to control the position of said member, said device adapted to be adjusted in position by said support independently of the condition of response thereof and having a mechanical connection with said member, means operable upon departure of said member from a predetermined position to so adjust the position of said support as to reset said member to said predetermined position, means for exhibiting the extent to which said member is

reset, a pair of cooperating electrical contacts one of which is moved by said member and the other of which is relatively stationary, and elec-



tronic valve means under control of said contacts only continuously controlling said resetting means.

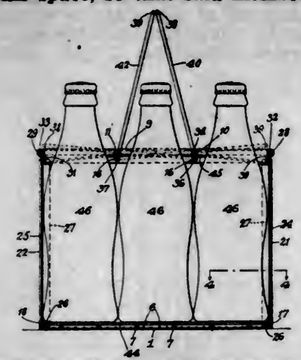
2,282,481
FLOATING LAUNCHING WAYS
Andrew M. Kennedy, Sewickley, Pa.
Application October 30, 1940, Serial No. 363,439
2 Claims. (Cl. 114—46)



1. A floating launching-way structure comprising a floating dock having a plurality of chambers arranged in a plurality of laterally-spaced rows that extend longitudinally of the dock, the chambers normally extending below the surface of the water by which the dock is buoyantly supported, skid rails movably carried on the dock in position to support a boat, means for varying the buoyancy of selected chambers at one side of the dock to tilt the dock at a desired angle for launching a boat therefrom, and means for releasably latching the said skid rails whereby they may be held against movement on the dock until after the dock has been tilted to the desired angle for launching.

2,282,482
BOTTLE CONTAINER
Alphonso L. Koenig, Chicago, Ill., assignor to The Dole Valve Company, Chicago, Ill., a corporation of Illinois
Application December 19, 1939, Serial No. 309,978
4 Claims. (Cl. 224—45)

4. A bottle container comprising an enclosure open at the top, a handle consisting of two continuous loops attached to said container, each loop having a spring member which extends across the space at the top of the enclosure, each member separated from the adjacent wall of the container parallel thereto by a space smaller than the largest diameter of the bottles which enter this space, so that said member must be



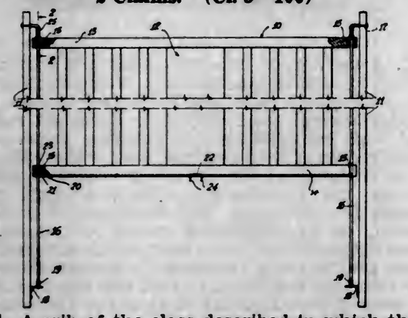
sprung to one side to permit the bottles to enter said space.

2,282,483
MERCHANDISE CONTAINER
Frederick Krause, Chicago, Ill., assignor to S. K. Smith Co., Chicago, Ill., a corporation of Illinois
Application October 25, 1938, Serial No. 236,922
2 Claims. (Cl. 220—42)



1. An ornamental merchandise container of the class described comprising a metallic base and side portion, and a metallic closure comprising a substantially flat plate having its outer portion shaped to form a vertical peripheral wall and an outwardly extending peripheral flange to fit within said side wall and rest upon the upper edge thereof respectively, and terminating in an inturned crimped edge forming a bead, a sheet material member conforming to the peripheral contour of the closure and arched across said plate and having its periphery secured beneath said bead, the central portion of said cover plate being elevated above the normal plane thereof, and the central portion of the arched member being depressed to rest on said elevated portion, said elevated and depressed portions being in contact substantially throughout their extent.

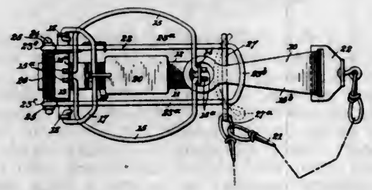
2,282,484
STABILIZER FOR DROP SIDE CRIBS
Samuel Kroll and Nathan J. Kroll, Chicago, Ill.
Application December 5, 1940, Serial No. 368,576
2 Claims. (Cl. 5—100)



1. A crib of the class described in which there

is a side member having a rail provided with an opening, and a guide rod for the rail passing through said opening for slidably guiding the rail for vertical adjustment, and a spring member mounted on the guide rod and fixed thereto and having a conically shaped portion self-adjustable in said opening between the guide rod and said rail of the side member, and means carried by the side member and adapted for latched engagement with the guide rod for releasably latching the rail in a raised position against the action of said spring.

2,282,485
ANIMAL TRAP
John U. Lehn and Joseph D. Zahm, Lititz, Pa., assignors to Animal Trap Company of America, Lititz, Pa., a corporation of Pennsylvania
Application May 17, 1941, Serial No. 393,886
8 Claims. (Cl. 43—90)



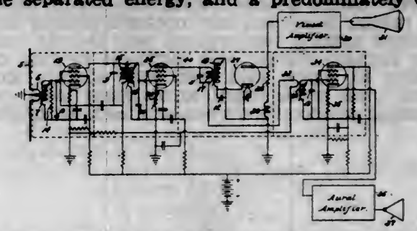
1. In a trap having opposed jaws, a spring for closing the jaws, releasable means for holding the jaws in set position, and an anchoring connection for the trap, the combination of a spring actuated leg embracing guard and a curved pin which is insertable between the guard and said jaw spring to arrest action of the guard after release of the jaws and is restrained against removal laterally in a direction longitudinally of the guard, said pin being connected with said anchoring connection and withdrawable by tension on the anchoring connection produced by the struggles of an animal caught in the trap.

2,282,486
ALLOYING STEEL
Arthur Linz, New York, N. Y., assignor to Climax Molybdenum Company, New York, N. Y., a corporation of Delaware
No Drawing. Application January 18, 1940, Serial No. 314,447
4 Claims. (Cl. 75—133)

1. A process of producing tungsten containing alloy steel which comprises adding ferrotungsten and a self-reducing mechanical mixture of tungstic oxide and a carbonaceous reducing agent to a molten ferrous alloy and thereafter adding a reducing agent to the alloy to reabsorb certain of the alloying ingredients which were oxidized by the addition of the tungstic oxide mixture.

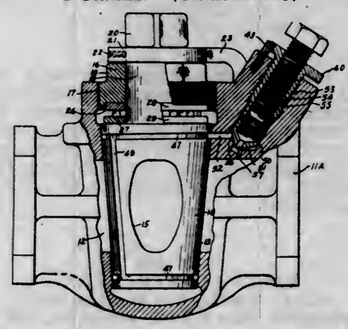
2,282,487
TELEVISION RECEIVER
Harry R. Lubcke, Los Angeles, Calif., assignor to Don Lee Broadcasting System, Los Angeles, Calif., a corporation of California
Application November 25, 1939, Serial No. 306,084
7 Claims. (Cl. 250—9)

1. In apparatus for sight-sound television reception, means for separating sight and sound energy at carrier frequency, comprising a conductive circuit in which said energy may flow; the circuit having a predominately inductive coupling between it and a channel for a portion of the separated energy, and a predominately ca-



pacitive coupling between it and another channel for another portion of the separated energy.

2,282,488
LUBRICATING MEANS
John W. MacClatchie, Los Angeles, Calif., assignor, by mesne assignments, to Merco-Nordstrom Valve Company, Pittsburgh, Pa., a corporation of Delaware
Application August 8, 1938, Serial No. 223,676
4 Claims. (Cl. 184—105)

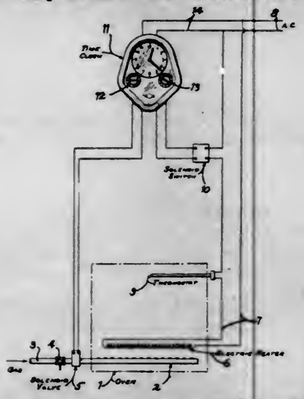


1. Apparatus for supplying lubricant to a zone exposed to fluid at high pressure and for positively preventing escape of fluid from said zone comprising a housing enclosing said zone, a bore extending into said housing from the outer surface thereof and having a tapered seat at its inner end, a passageway leading from said bore to said zone, a lubricant container threaded for axial movement within said bore and having its inner end in the form of a tapered seating surface to cooperate with said tapered seat upon inward axial movement of said lubricant container to provide a positive seal between said passageway and said bore and to open communication between said bore and said passageway upon outward axial movement of said lubricant container, an aperture in said lubricant container, and a plunger threaded for advancement in said lubricant container for forcing lubricant from said lubricant container into said bore and through said passageway to said zone while said bore is in open communication with said passageway, said plunger being threaded into said lubricant container in reverse direction relative to the threading of said lubricant container into said bore.

2,282,489
OVEN HEATING SYSTEM
Leo S. Madlem, San Francisco, Calif.
Application June 15, 1938, Serial No. 213,853
1 Claim. (Cl. 236—46)

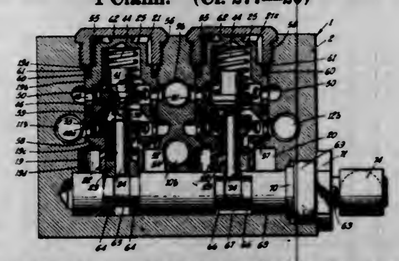
In combination with a cooking oven, a gas burner and an electric heating element in said

oven, means for supplying gas to said burner, said burner having a large heating capacity for quickly raising said oven and contents thereof to a desired cooking temperature, said electric heating element having only sufficient heating capacity to supply said oven with slightly more heat than is necessary to maintain it at said cooking temperature when attained, an electric



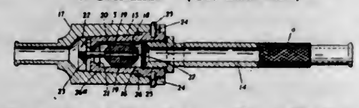
circuit for supplying current to said electric heating element, a thermostat responsive to oven temperature for controlling said circuit, a time clock, means controlled by said time clock for shutting off said gas burner after a predetermined period of operation and simultaneously placing said electric heating element under control of said thermostat.

2,282,490
VALVE CONSTRUCTION
Otis C. Martin, Los Angeles, Calif.
Application June 4, 1940, Serial No. 338,727
1 Claim. (Cl. 277—20)



In a fluid control valve, a body member, a valve receiving bore in said body member, three fluid passages in said body member communicating with said bore at three points spaced respectively along said bore, a valve assembly in said bore including a cylindrical valve seat member, a pair of valve seats formed in said seat member in spaced relation along said member, a sleeve valve member cooperating with one of said seats, a poppet valve member cooperating with the other of said seats and having a stem thereon extending through said sleeve member and exteriorly of said seat member and a cap member on said seat member and enclosing said valve member, fluid passages formed in said cap member and said seat member communicating with the interior of said assembly respectively above the poppet valve, between the poppet valve and sleeve valve and below the sleeve valve, said fluid openings being disposed along said assembly in such spaced relation as to communicate respectively with the three fluid passages in said body member, and a plurality of seals associated with said valve assembly and said bore to seal said valve assembly against the passage of fluid exteriorly of said valve assembly except through the valves of said assembly.

2,282,491
FIRE EXTINGUISHING SYSTEM DEVICE
Anders Mathisen, Osterley, Isleworth, England, assignor to Graviner Manufacturing Company Limited, Osterley, Isleworth, Middlesex, England
Application June 28, 1941, Serial No. 400,300
In Great Britain April 22, 1940
8 Claims. (Cl. 169—11)



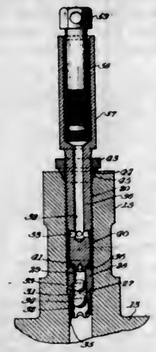
2. In a fire extinguishing fluid discharge system, a fluid supply under pressure, a conduit from said supply to a fire risk source, a nozzle in said conduit, a socket device to which said nozzle is adapted to be detachably secured, a valve means in said nozzle and abutment means in said socket adapted to displace said valve means when said socket device and said nozzle are secured together to permit a high rate of fluid discharge through said nozzle.

2,282,492
PROCESS OF ISOLATING ENZYMES
Katsuhei Miyamoto, New York, N. Y., assignor, by mesne assignments, to Frederick Stearns and Company, Detroit, Mich., a corporation of Michigan
No Drawing. Application November 1, 1939, Serial No. 302,453
1 Claim. (Cl. 195—66)

The process which comprises: (1) vacuum concentrating clarified Koji solution, separately recovering the crystal product and the condensate; (2) treating the said condensate with alcohol, adjusting the pH to between about 5.3–5.6, then treating with sodium chloride and recovering the so-formed precipitate from the alcoholic solution; (3) adding alcohol to the alcoholic solution from Stage 2 to make a solution of between 75 and 80 percent strength by volume, adjusting to a pH of 4.3–4.6, and recovering from the alcoholic solution the crystals formed upon standing; and, (4) adding water to the alcoholic solution from Stage 3 to make its alcoholic strength to between 55 and 60 per cent by volume, adjusting the solution to a pH of 4.8–5.2, and recovering the precipitate formed upon standing.

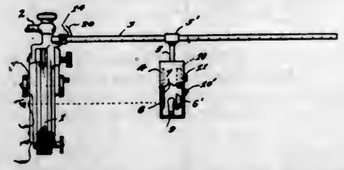
2,282,493
LUBRICATED VALVE
Sven J. Nordstrom, Lafayette, Calif., assignor to Merco Nordstrom Valve Company, Pittsburgh, Pa., a corporation of Delaware
Application November 15, 1938, Serial No. 240,535
5 Claims. (Cl. 184—105)

1. A valve comprising a casing having a passageway therethrough for flow of line fluid under pressure; a rotatable valve member for closing said passageway, said member having a lubricant receiving surface groove and a transverse passage communicating with said groove; an operating stem for said valve member extending from said casing, said stem having an axial bore communicating with said transverse passage and said bore being internally threaded at its outer end; means providing an annular valve seat within said bore outwardly of said transverse passage; a lubricator tube threaded in said bore, said tube having an internal reservoir chamber adapted to contain a supply of lubricant and an internally threaded axial bore leading to said chamber; a valve face on the bottom of said tube adapted to fit snugly on said valve seat; a passage in said tube between said chamber and the bore of said stem outwardly of said valve seat; and a lubricator com-



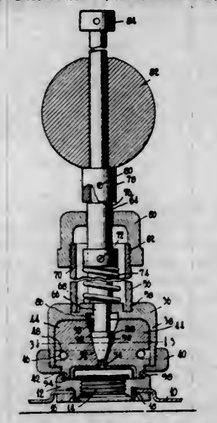
pressor screw threaded in the bore of said tube and having an operating head projecting from said tube, the lower end of said screw compressing the lubricant in said chamber and feeding it under pressure through said tube passage into the bore of the stem upon rotation of said screw in a selected direction, and said tube being rotatable to unseat said valve face and permit flow of said lubricant under pressure to said transverse passage while lubricating said valve member and to reseat said valve face to prevent return flow of lubricant or leakage of said line fluid when said screw is removed from said tube.

2,282,494
ILLUMINATION CONTROL FOR VISION-TEST CHARTS
Jack Arthur Potter, Peoria, Ill.
Application May 3, 1940, Serial No. 333,104
3 Claims. (Cl. 88—20)



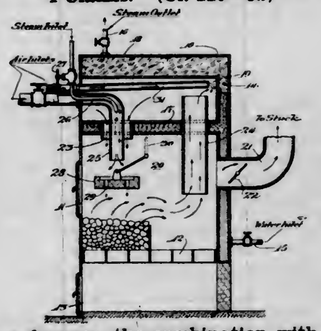
1. In a device of the nature and for the purpose described, the combination with a refractor including its testing lens, of a tubular arm carried by the refractor and having a slot in its wall extending lengthwise thereof, said arm paralleling the axis of the lens and extending from the front face of said refractor, a resistance element enclosed in the arm extending lengthwise of the same and adapted for connection with a source of current, a light-box suspended from the arm and shiftable therealong, a target and a lamp enclosed in said member, the former lying in line with the axis of the said lens, and a conductor connected with one side of the lamp and extending through the slot of the said arm to slidably engage the element, the other side of the lamp having means adapted to be connected with the current source.

2,282,495
SEAL FOR BUNG RINGS
John R. Proctor, Bayonne, N. J., assignor to Atlas Steel Barrel Corporation, Bayonne, N. J., a corporation of New Jersey
Application August 30, 1938, Serial No. 227,601
5 Claims. (Cl. 220—39)



3. A seal for a bung ring having an outwardly disposed flange comprising, in combination, a recess in the outer face of said flange, an outwardly extending undercut or cleft extending around the base periphery of the recess and opening thereinto, and a seal cap including a crown portion and a marginal flange portion extending outwardly and into said cleft.

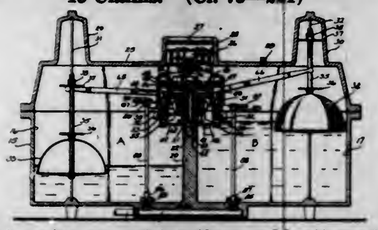
2,282,496
FURNACE
William Ryan, Chicago, Ill.
Application February 19, 1941, Serial No. 379,590
4 Claims. (Cl. 110—52)



1. In a furnace, the combination with a combustion zone adapted to be occupied by hot gases of combustion produced by the ignition of fuel in said furnace, a stack, a mixing chamber, spaced conduits opening at their upper ends in said mixing chamber and at their lower ends into said combustion zone, the upper end of said conduits extending into the mixing chamber above the upper end of the other conduit, and the lower end thereof extending into the combustion zone below the stack, means for introducing air

into the mixing chamber, means for introducing air and steam into the admixed air and gases of combustion from the combustion zone, and a baffle in the combustion zone located below the conduit conducting gases from the mixing chamber to the combustion zone.

2,282,497
FLOAT CONTROLLED METER
William F. Schultz, Ripon, Wis.
Application May 28, 1941, Serial No. 395,601
15 Claims. (Cl. 73—231)



1. A meter comprising the combination with a casing provided with metering chambers and an intervening partition having an inlet duct, of means mounted on said partition provided with inlet valve ports, seats, valves and conduits communicating with the respective chambers, and a securing device connecting said means unitarily to said partition and comprising a tube affording communication between the inlet duct and the conduits leading to the respective ports and seats.

2,282,498
SCALP PROTECTOR
Jessie L. Shaler and Hanna M. Hess, Winona, Minn.
Application June 23, 1941, Serial No. 399,356
3 Claims. (Cl. 132—36.1)

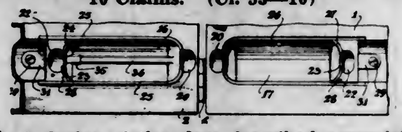


1. A card-like scalp-protecting shield having upper and lower longitudinal portions integrally connected with each other at at least one end of said shield, said lower portion having a longitudinally concave upper edge to lie against the lower side of a lock of hair passed between said upper and lower portions, said upper portion having a longitudinally convex lower edge to lie against the upper side of the lock of hair, the edge curvatures of said upper and lower portions being mated.

2,282,499
DEPOLYMERIZATION OF HIGH BOILING UNSATURATED HYDROCARBONS
Karl Smeykal and Kurt Reisinger, Leuna, Germany, assignors, by mesne assignments, to William E. Currie, New York, N. Y.
No Drawing. Application September 1, 1938, Serial No. 227,988. In Germany September 7, 1937
3 Claims. (Cl. 260—683)

1. In the process of depolymerizing polymers of low boiling olefines by passing said olefine polymers at an elevated temperature over a surface active clay catalyst in which the clay itself is the effective catalytic component, the improvement which comprises effecting such depolymerization in the presence of an appreciable amount of steam which operates on the clay itself to maintain the catalytic activity thereof.

2,282,500
COOKING DEVICE
Samuel L. Sohn, New York, N. Y., assignor of one-half to Moses J. Slepack, New York, N. Y.
Application October 17, 1940, Serial No. 361,532
10 Claims. (Cl. 53—10)

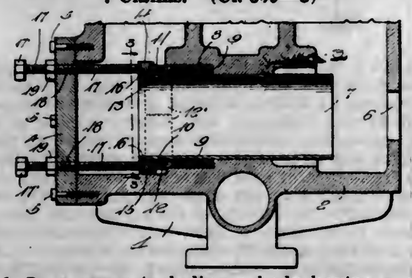


1. A device of the class described comprising, in combination, cooperating upper and lower hinged portions each having complementary longitudinal recesses adapted to form a plurality of longitudinal cavities when the upper and lower members are in adjoining relationship, and transversely extending longitudinally adjustable means in each of said cavities each having means adapted to assist in supporting an elongated edible article substantially centrally in said cavity.

2,282,501
CENTRIFUGAL CASTING
Koenraad Suijk, Heemstede, and Jacob Suijk, Haarlem, Netherlands
No Drawing. Application August 8, 1940, Serial No. 351,904. In the Netherlands March 29, 1940
2 Claims. (Cl. 22—65)

1. A method of vertically centrifugally casting hollow metal bodies by means of a rotating mould and a stationary metal core of steady shape, in which prior to lowering the core into the mould the core is coated with a smeared on thin layer of refractory material, the core being then lowered into the mould, the centrifugal casting process started and the core being left in the casting in a stationary position until solidification of the casting has taken place and the shrinking has commenced.

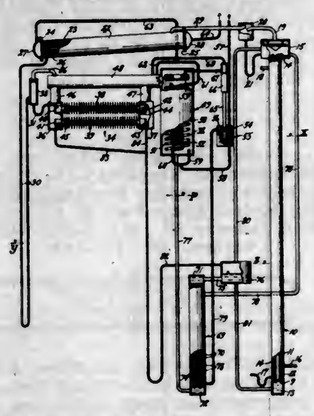
2,282,502
PUMP LINER
Jack Suth, Houston, Tex.
Application January 31, 1941, Serial No. 376,900
7 Claims. (Cl. 309—3)



1. In a pump including a body having a cylinder therein open at its ends, and a head mounted in closing relation to an opening in the body

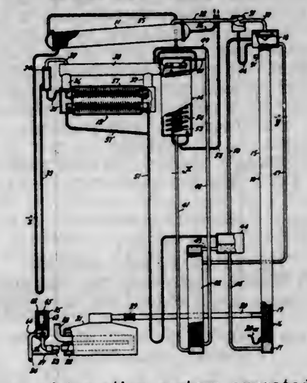
opposite one end of the cylinder in spaced relation thereto; a tubular liner fitting snugly in the cylinder with one end portion presented toward the closure head of the pump body, the cylinder being counterbored from the end confronting the head to form an annular recess, packing in the recess about the liner, a bead extending circumferentially about the protruding portion of the liner, a split ring surrounding the said end portion of the liner and formed with an internal groove receiving said bead, said split ring having its inner end abutting the packing and having its outer end externally beveled to provide a tapered end for the ring, a solid ring surrounding the outer end of the liner and having its inner end internally beveled and fitting snugly about the tapered end of the split ring, the outer end face of the solid ring being formed with a circumferentially extending groove, and screws threaded through the head with their inner ends seated in the groove for forcing the solid ring inwardly to constrict the split ring about the liner and shift the rings and the liner longitudinally to compress the packing in the recess tightly about the liner.

2,282,503
REFRIGERATION
Albert R. Thomas and Philip P. Anderson, Jr., Evansville, Ind., assignors to Servel, Inc., New York, N. Y., a corporation of Delaware
Application November 10, 1938, Serial No. 239,762
9 Claims. (Cl. 62—119)



1. A refrigeration system employing a water solution from which water is expelled to be used as a refrigerant, including: a solution circuit in which there is a generator for expelling water vapor from the solution, an absorber for reintroducing expelled water into solution, a conduit for conducting concentrated solution from the generator to the absorber and a conduit for conducting dilute solution from the absorber to the generator; and members forming a path of flow for water and its vapor including a condenser, a conduit for conveying water vapor from the generator to the condenser, an evaporator, a conduit for conducting water from the condenser to the evaporator, and a connection between the evaporator and the absorber; said evaporator including means to limit the water therein to thin bodies substantially without liquid accumulation and of a gross quantity constituting substantially a minimum for the refrigerative capacity of the system, and the liquid conduit between the condenser and the evaporator holding substantially a minimum quantity of liquid necessary for maintaining a liquid column to balance pressure differential between the condenser and evaporator and constructed and connected to convey substantially all condensate to the evaporator as formed, whereby the quantity of water condensed and the quantity of water evaporated are substantially equal; means to conduct the heat of absorption directly to a fluid extraneous to the system; said solution circuit containing a quantity of solution greater than required for the concentration difference between equilibrium at capacity conditions and maximum concentration and having a liquid volume variation vessel therein; whereby water is withdrawn from the solution circuit substantially only to the extent necessary for and in proportion to evaporation requirements with substantially proportionate condensation and proportionate flow of water as such in the system.

2,282,504
REFRIGERATION
Albert R. Thomas and Philip P. Anderson, Jr., Evansville, Ind., assignors to Servel, Inc., New York, N. Y., a corporation of Delaware
Application August 3, 1940, Serial No. 350,240
15 Claims. (Cl. 62—5)

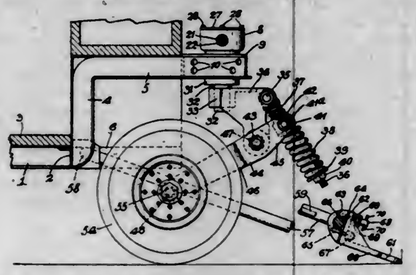


1. In a refrigeration system operated by heat and having a cooling element and a heat receiving part provided with a chamber, a boiler, a heater for heating said boiler to produce steam in the latter, said chamber being connected to receive steam from said boiler and having a permanent opening to atmosphere, and means to control said heater responsive to a temperature condition affected by said cooling element whereby air can pass through said opening from the atmosphere into said chamber with changes in heat input to said boiler by said heater.

2,282,505
CATALYTIC ALKYLATION PROCESS
Hans G. Vesterdal, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application July 27, 1940, Serial No. 348,019
8 Claims. (Cl. 196—10)

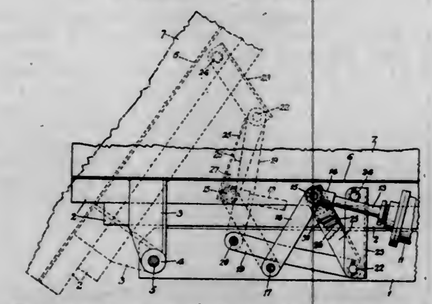
1. A process for the production of normally liquid, branched chain hydrocarbons, substantially completely saturated in character, which comprises condensing isoparaffins with monoolefins in the presence of chlorsulfonic acid and sulfur dioxide under alkylation reaction conditions.

2,282,506
TRAILER
Lester W. Wachter, Streator, Ill., assignor to Anthony Company, Streator, Ill., a corporation of Illinois
Application January 22, 1941, Serial No. 375,473
6 Claims. (Cl. 16—44)



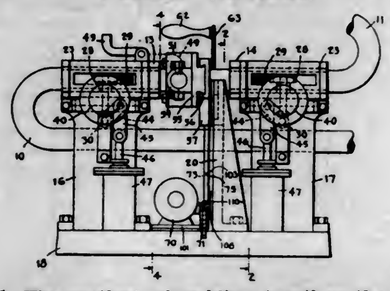
1. In combination in a caster, a fixed hollow housing and a stub shaft mounted therein for rotation, and a member fixed to said shaft and provided with a pair of ears, said ears positioned forwardly of the axis of said shaft, and a second pair of ears on said member positioned below first pair of said ears and forwardly of the axis of said shaft; and a wheel arm pivoted to said second ears, and an axle carried by said arm adjacent its lower end, and a pair of wheels mounted on said axle, one on either side of said arm, the forward end of said arm projecting forwardly of its pivot point; a spring carrier pivoted adjacent said first mentioned ears and a member secured to the upper end of said arm, a pair of springs mounted on said spring carrier, said springs adapted yieldingly to resist movement of said arm.

2,282,507
HOIST CONTROL MEANS
Lester W. Wachter, Streator, Ill., assignor to Anthony Company, Streator, Ill., a corporation of Illinois
Application January 22, 1941, Serial No. 375,474
17 Claims. (Cl. 298—22)



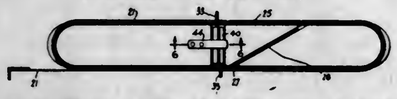
6. In combination in a vehicle tipping mechanism, a support, a load-carrying member mounted thereon for tipping movement with respect thereto, and power means for causing said tipping movement, said means including links, one of said links being of channel section, another of said links adapted, during the tipping movement, to move into said channel, and deformable means positioned in said channel to be contacted by said entering member during the progress of the tip and adapted to be compressed between said two members during a latter portion of said tipping movement.

2,282,508
METHOD FOR BUTT-WELDING PIPES AND TUBING
James L. Anderson, Closter, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application January 27, 1940, Serial No. 315,931
9 Claims. (Cl. 78—94)



1. The method of welding together the ends of tubes which comprises holding the tubes stationary with their end faces spaced apart but confronting one another, heating the end faces simultaneously by heating flames projected directly against the surfaces of the end faces around their circumferences, moving the tubes toward one another, heating both end faces substantially equally during the time that they are coming together, pressing the end faces of the tubes into contact with one another to weld them together, and continuing to project heating flames against the tubes after the end faces are in contact to smooth any molten metal squeezed out from between the faces.

2,282,509
MEASURING TAPE
Christian Ashmusen, Kings Park, N. Y., assignor of one-half to Cornelius Dowling and William Dowling, both of Kings Park, N. Y.
Application January 30, 1941, Serial No. 376,632
3 Claims. (Cl. 33—138)

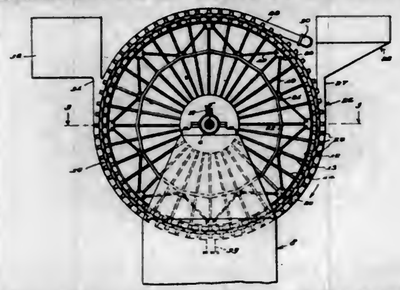


1. In a device of the class described, a housing adapted to have a tape scale wound thereon, said housing comprising an open center reel portion, and top and bottom lids secured to the latter to form rims for the reel, the center portion having a slot in one side thereof into which the fixed end of the tape projects, and small aligned cut-away portions in each side thereof respectively, a member consisting of two arms mounted in said center portion, said arms protruding through the respective cut-away portions and being adapted to engage the tape wound upon the housing, and a spring wound around the arms to urge them towards the housing.

2,282,510
MAGNETIC ORE SEPARATOR
Charles Robert Begor, Jr., Moriah, N. Y.
Application March 27, 1940, Serial No. 326,285
2 Claims. (Cl. 209—222)

2. In a magnetic ore separator, a non-magnetic ore conducting conduit forming the greater part of an annulus vertically disposed and having an intake end upstanding at one side thereof

for gravity feed of ore thereinto, a rotatably mounted circular field of electromagnets circumferentially spaced and having cores partially surrounding said conduit transversely in closely spaced relation thereto whereby under rotation of said field in one direction magnetic ore in said

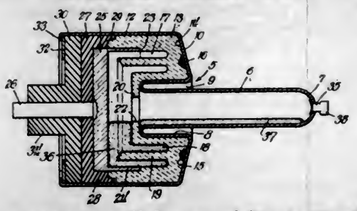


conduit is caused to travel around the same, a gravity feed discharge at the bottom of said conduit for the escape of non-magnetic ore gravitating to said bottom, and gravity feed means for introducing washing fluid into said conduit in a direction opposite to the direction of travel of the magnetic ore.

2,282,511
COATING CUPREOUS SURFACES WITH TIN
John Clement Bradley, Waterbury, Conn., assignor to The American Brass Company, a corporation of Connecticut
No Drawing. Application March 20, 1940, Serial No. 324,915
7 Claims. (Cl. 117—130)

1. The method of coating a cupreous surface with tin which comprises bathing said surface with an aqueous solution containing dissolved tin in the stannous condition, dissolved thiocarbamide, and a small amount of an alkali metal carbonate, whereby a deposit of metallic tin is formed directly on the cupreous surface.

2,282,512
MERCURY SWITCH
Herbert E. Bucklen and Uno C. Hedin, Elkhart, Ind., assignors to Bucklen-Bear Laboratories, Inc., Elkhart, Ind., a corporation of Indiana
Application April 20, 1940, Serial No. 330,654
13 Claims. (Cl. 200—152)

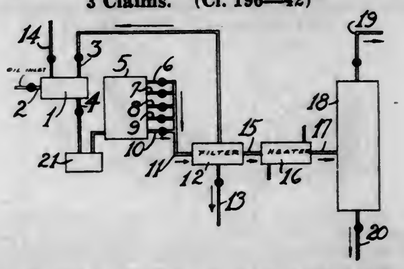


1. A mercury switch comprising a cup-shaped metal envelope having an enlarged cylindrical open end, a ceramic insert seated in said end having a large cylindrical bore extending into the outer end thereof, means at the end of said envelope locking said insert against axial movement, a coaxial small cylindrical bore formed in the inner end thereof, said ceramic insert having an intermediate cylindrical flange portion between the bores providing for axial overlapping of said bores to define an annular axially extending recess about the inner bore, an electrode disc having a peripheral axial flange seated against axial movement in the outer end of said large bore with the flange forming at least a portion of the outer annular wall of said recess, the end of said intermediate ceramic flange terminating axially inwardly of the electrode face to form a radial gap therebetween opening radially outwardly into said recess, a first body of mercury in said envelope movable into said bore upon tilting of said switch in one direction, and a second body of mercury in said recess movable over the electrode face and said end of said bore upon said tilting to insure mercury to mercury contact.

2,282,513
STABILIZATION OF VISCOUS PETROLEUM OILS
Frederick B. Downing and Charles J. Pedersen, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 19, 1939, Serial No. 274,504
14 Claims. (Cl. 252—50)

1. A viscous petroleum oil normally subject to deterioration in color having incorporated therein a small amount of an organic compound of the type of a Schiff's base, obtained by condensing 1 mol of an aliphatic polyamine containing at least two primary amino groups directly attached to different carbon atoms of the same open chain with at least 2 mols of an aldehyde, so that one and only one mol of aldehyde reacts for each primary amino group of the polyamine.

2,282,514
PRODUCTION OF COLOR STABILIZED PETROLEUM OILS
Herbert G. M. Fischer, Westfield, N. J., and Willem James, Palembang, Sumatra, Dutch East Indies, assignors of three-fourths to Standard Oil Development Company, a corporation of Delaware, and one-fourth to Socony-Vacuum Oil Company, Incorporated
Application July 26, 1939, Serial No. 286,548
3 Claims. (Cl. 196—42)



1. Process of producing color stabilized light petroleum oils from hydrocarbon oils comprising subjecting said oil to contact with air while in the presence of 3 to 5 grams of iron oxide consisting of Fe_2O_3 per 1000 cc. of oil at a temperature in the range from 200° F. to 350° F., removing the iron oxide from the colored oil without removing substantial amounts of color bodies, and then separating the color bodies from the oil by distillation.

2,282,515
BUILDING WALL STRUCTURE
Russell C. Graef, Westfield, N. J.
Application July 18, 1940, Serial No. 346,072
4 Claims. (Cl. 72—48)

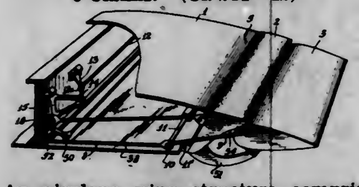
1. A building wall structure comprising a single

row of vertical standards having at their respective ends flanged sockets for bolting the same to and between sills and plates in spaced apart relation along the extent of the wall, pairs of transversely disposed bracket elements the members of which straddle and are secured to each standard in vertically spaced relation along the same between a sill and plate, said bracket



elements having oppositely extending carrying arms, wall face framework comprising uprights affixed to and between the opposite extremities of each pair of carrying arms and including horizontal stretcher bars affixed to and extending between said uprights, and facings of lath and plaster secured to and supported by each face framework so as to be coextensive with the respective side faces of the finished wall.

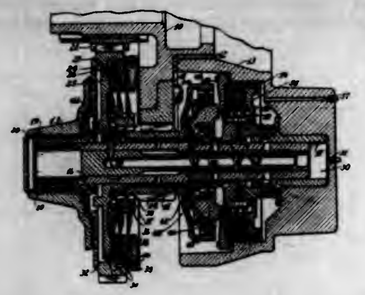
2,282,516
AIRPLANE WING STRUCTURE
Hans Gropler and Erwin Handke, Dessau, Germany, assignors to Junkers Flugzeug-und-Motorenwerke Aktiengesellschaft, Dessau, Germany, a corporation of Germany
Application July 7, 1939, Serial No. 283,257
In Germany July 11, 1938
9 Claims. (Cl. 244—42)



1. An airplane wing structure comprising a main wing having a passage therein and openings therethrough connecting said passage with the skin layer exteriorly of the wing, a flap supported by the wing rearwardly thereof for pivotal movement about its lower edge, said flap when at the limit of its upward pivotal movement being adapted to close said openings and being operable to form a variable slot communicating with the openings when swung downwardly, and an aileron pivotally supported by the flap.

2,282,517
TRANSMISSION
Henry C. Hill, Montclair, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York
Application November 16, 1940, Serial No. 365,979
8 Claims. (Cl. 74—230)

1. In a gear system, a shaft having a pinion floatingly mounted for rotation and axial shift, a drive gear engaging said pinion, a two-speed gearset driven by said pinion, means to shift said

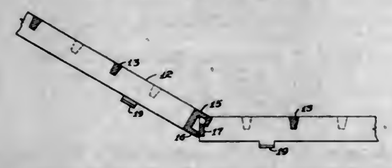


pinion axially, and means responsive to axial shift of said pinion to select one or the other drive ratio of said gearset.

2,282,518
PREPARATION OF PHENOL-LIGNIN-ALDEHYDE RESINS
Carroll A. Hochwalt, Dayton, and Mark Plunguian, Chillicothe, Ohio, assignors to The Mead Corporation, Chillicothe, Ohio, a corporation of Ohio
No Drawing. Original application April 9, 1936, Serial No. 73,517. Divided and this application June 3, 1939, Serial No. 277,320
3 Claims. (Cl. 260—53)

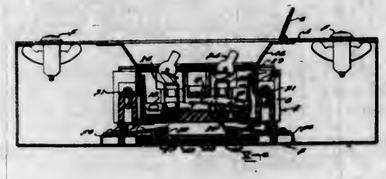
1. The method of preparing a water-resistant thermosetting resinous material for use in molding which comprises recovering lignin solids from black liquor of alkaline reaction in a condition substantially free of alkaline solvents and sodium organic compounds and subjecting such lignin solids as thus recovered and following separation from alkaline solution to a condensation reaction by heating said lignin solids in the presence of a phenolic body and an aldehydic material to provide a potentially reactive thermosetting resinous material.

2,282,519
PAVEMENT STRUCTURE
Edward H. Holmes, McKees Rocks, Pa., assignor to Fort Pitt Malleable Iron Company, McKees Rocks, Pa., a corporation of Pennsylvania
Application December 26, 1940, Serial No. 371,663
3 Claims. (Cl. 94—8)



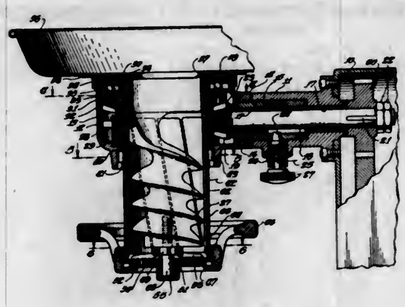
1. A pavement structure comprising a body of concrete or the like which has inset into its upper surface grid-like members each of which has a hook-engaging bar of reduced depth at one edge and a hook at the opposite edge, with a retaining lug beneath the hook, the hook on each grid partially embracing the bar of an adjacent grid and the retaining lug at the hook underlying the bar, whereby the grids are held against relative displacement.

2,282,520
CIRCUIT BREAKER
John G. Jackson, Detroit, Mich., assignor to Square D Company, Detroit, Mich., a corporation of Michigan
Application August 9, 1939, Serial No. 289,165
12 Claims. (Cl. 175—308)



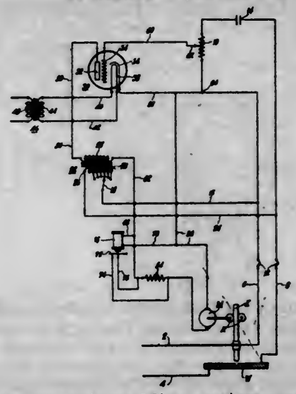
1. In a circuit breaker panelboard, a plurality of horizontally spaced bus bars, a plurality of automatic electric circuit breaker units mounted directly in front of said bus bars in superposed relation and with their longitudinal axes transverse to the bus bars, each of said units including a sealed enclosure for the circuit breaker mechanism preventing access thereto, conducting means connected to the circuit breaker mechanism within the enclosure and extending to the exterior thereof at a side of each of the units parallel to its longitudinal axis, and means for conductively connecting said conducting means to a bus bar, said connecting means being readily manipulable at the side of a circuit breaker unit while the unit is in place in the panelboard in front of the bus bar.

2,282,521
MACHINE FOR CHOPPING FOODS
Alexander F. Kaptuller, Chicago, Ill.
Application March 20, 1940, Serial No. 324,936
8 Claims. (Cl. 146—192)



1. In a machine of the type described, the combination of a housing having a passageway therethrough with inlet and discharge ends, a driven ring in said passageway and journaled in said housing, means for operating on the material being treated including a sleeve extending into the discharge end of said passageway and having a slidable and non-rotatable connection with said ring whereby the operating means may be readily removed from said housing, enclosure means surrounding at least a portion of said operating means, and interengaging means on said housing and said enclosure means for ready and rigid attachment of the latter to the former and for ready separation of the same.

2,282,522
ELECTRIC WELDING
John A. Kratz, Bronxville, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio
Application July 6, 1940, Serial No. 344,194
16 Claims. (Cl. 219—8)



4. An electric welding system comprising, in combination, a welding circuit including a movable electrode and the work, electrically operable means for advancing said electrode toward the work, said means receiving energy solely from said welding circuit; and a control device, operable to establish the flow of current to said means only when the welding voltage exceeds a pre-selected value.

2,282,523
METHOD OF MANUFACTURING SELENIUM RECTIFIERS AND PHOTOELECTRIC SELENIUM CELLS
Conradin Kreutzer, Nuremberg, Germany, assignor to Süddeutsche Apparate-Fabrik, Nuremberg, Germany, a company
Application November 9, 1939, Serial No. 303,545
In Germany January 13, 1939
6 Claims. (Cl. 175—366)

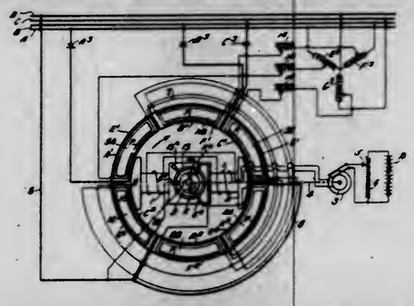


1. The method of manufacturing selenium-coated electrical devices of the general character indicated, which includes applying amorphous selenium to an auxiliary member, heating an electrode member, applying a selenium-coated side of said auxiliary member to said electrode member, subjecting the selenium to a formation process, and then removing said auxiliary member, all of the above-mentioned steps being performed in a partial vacuum.

2,282,524
ELECTRIC MOTOR
Frank G. Logan, Mount Vernon, N. Y., assignor to Ward Leonard Electric Company, a corporation of New York
Application August 11, 1939, Serial No. 289,664
13 Claims. (Cl. 172—274)

4. The combination of a source of alternating

current, an electric motor comprising a rotary least a portion of said windings to affect said last elements having windings, means for supplying rectified intermittent currents from said source to at least a portion of said windings, and means for supplying an auxiliary control current to at



least a portion of said windings to affect said last named element for reducing the flux of certain of said windings subjected to said rectified currents in relation to the flux of other of said last named windings successively in accordance with the speed of the motor.
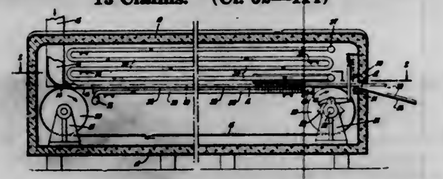
2,282,525

QUICK FREEZING APPARATUS

Walter R. Maguire, Manhasset, N. Y.

Application June 30, 1939, Serial No. 282,222

13 Claims. (Cl. 62—114)



1. Apparatus for the quick freezing of fluids, such as cream, including a moving endless metal belt, means for delivering a layer of fluid onto the belt, a continuous heat conductive surface in which refrigerating pipes are embedded said surface being in contact with the major portion of the under side of the upper reach of the belt, a vibrator acting on an unsupported portion of the belt for freeing the frozen fluid from the surface of the belt, means for severing the frozen fluid into sheets of substantially uniform length and an insulated cabinet enclosing the belt and refrigerating pipes.

2,282,526

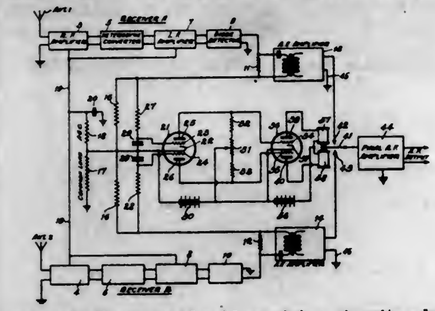
SELECTOR FOR DIVERSITY RECEIVING SYSTEMS

John B. Moore, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application June 29, 1940, Serial No. 343,091

9 Claims. (Cl. 250—20)

1. In a diversity receiving system, a plurality of antennas, a separate receiving circuit for each antenna, means for deriving rectified signal energy from each said circuit, an automatic gain control device common to said receiving circuits and fed with components of rectified signal energy from the several receiving circuits, means for comparing the values of said components, switching means under control of the dominating one of the compared components, and a utilization device connectable by said switching



means to that one of said receiving circuits which delivers the maximum intensity of signal energy.

2,282,527

PIGMENT TRANSFER

John Owen Morrison, Chatham, and Ben H. Perkins, Jersey City, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 1, 1940, Serial No. 338,376

16 Claims. (Cl. 106—259)

2. In a process of transferring a pigment from an aqueous system to an oily system the steps which comprise mixing an aqueous pigment paste, an oily vehicle, and a petroleum nitrogen base, said mixing continuing until a major portion of the water separates and can be poured off.

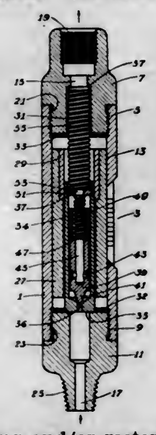
2,282,528

FLUID INDICATOR AND METERING DEVICE

Younger Neal, Chicago, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

Application February 18, 1939, Serial No. 257,073

3 Claims. (Cl. 73—194)



1. An indicating and/or metering device comprising a metallic casing, a transparent, nonfrangible, hollow cylinder press-fitted into said metallic casing, a metallic sleeve press-fitted into one end of said cylinder, said sleeve having an inside diameter slightly less than the inside diameter of said cylinder, a closure on each end of said casing, said closures each having a passageway

therethrough connecting with the hollow portion of said cylinder, a metallic plunger snugly fitted in said sleeve, said plunger being adapted to snugly reciprocate in said sleeve and to loosely reciprocate in said cylinder, a slot in said casing through which said plunger is visible, said plunger being caused to advance by means of fluid pressure, and means operable to cause said plunger to resume its initial position when it reaches the end of its advance stroke.

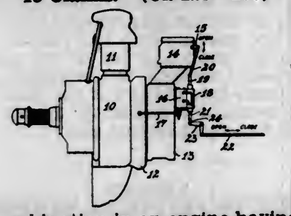
2,282,529

HYDRAULIC THROTTLE CONTROL

Erold F. Pierce, Pines Lake, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York

Application September 2, 1939, Serial No. 293,207

15 Claims. (Cl. 123—103)



1. In combination in an engine having a throttle, automatic means for operating the throttle, manual means for operating the throttle, and a connecting device for the throttle and said automatic and manual means comprising a manual means element engageable with an element of the throttle at any time, and operative when so engaged to disconnect the automatic means from the throttle, said manual means when moved to the position of complete throttle closing being disconnected from the throttle and serving to reconnect the automatic means for throttle operation.

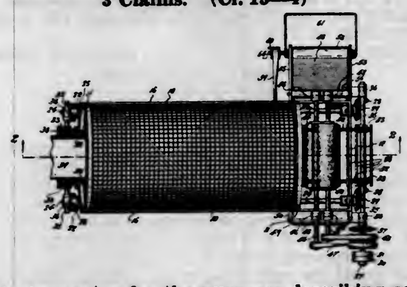
2,282,530

APPARATUS FOR CLEANING AND SORTING FUR BEARING SKINS

Robert H. Plass, Upper Montclair, N. J.

Application March 22, 1940, Serial No. 325,311

3 Claims. (Cl. 15—4)



1. Apparatus for the purposes describing comprising, a rotatable open ended tumbling drum having perforate walls and mounted to incline downwardly from its receiving end toward its discharge end, said drum having a plurality of circumferentially spaced longitudinally extending flights radially projecting from the interior sides of its walls, a discharge compartment with which the discharge end of said drum communicates, and a driven sorting conveyer means having a course arranged to enter the receiving end of said drum to pass axially therethrough and over and beyond said discharge compartment, said sorting conveyer means comprising laterally spaced conveyer chains and longitudinally spaced cross-bars extending between and carried by said conveyer chains whereby unimpeded open spaces are provided intermediate said cross-bars and coextensive with the width of said sorting conveyer.

2,282,531

VEHICLE WINDOW SILL CONSTRUCTION

Joseph Schunk, Newark, N. J., assignor to The National Lock Washer Company, Newark, N. J.

Application January 31, 1941, Serial No. 376,718

6 Claims. (Cl. 189—75)



1. A window sill construction comprising a main sill having a ledge along the inner part of the sill, a sub-sill extending longitudinally of the main sill and transversely from the ledge toward the outer edge of the main sill, said sub-sill including a riser, two members fastened to the riser and spaced upwardly from the main sill and from each other and closure means joining the outer edges of said two members to form a chamber therebetween and extending downwardly to the main sill, the upper of said two members having holes therethrough closely adjacent the riser, while the lower of said two members has holes through it near the edge away from the riser and a drain slot at each of the outer corners of the closure means at its juncture with the sill.

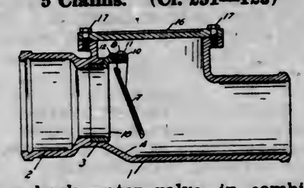
2,282,532

BACK WATER VALVE

Robert H. Shenk, Erie, Pa., assignor to J. A. Zurn Manufacturing Company, Erie, Pa., a corporation of Pennsylvania

Application June 13, 1940, Serial No. 340,238

5 Claims. (Cl. 251—123)



4. In a back water valve, in combination, a casing having an aperture, a gate valve covering said aperture and having an apertured portion, a pin for hingedly supporting said gate valve disposed in said apertured portion of said gate valve freely rotatable therein relative thereto, a flat surface support on which said pin is mounted in rolling relation therewith, and means for sealing the bearing surface of said pin from fouling matter.

2,282,533

DIRECT CURRENT NEGATIVE CARBON ELECTRODE

Russell W. Simon and William W. Lozier, Fostoria, Ohio, assignors to National Carbon Company, Inc., a corporation of New York

No Drawing. Original application January 25, 1939, Serial No. 252,718. Divided and this application May 8, 1940, Serial No. 333,916

5 Claims. (Cl. 176—134)

1. An "anti-carbide tip" negative electrode for

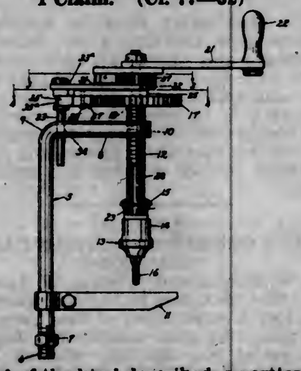
a direct current carbon arc, comprising a hollow shell predominantly consisting of carbon and containing an arc-supporting material of an alkali metal salt intimately and uniformly dispersed therein, said arc-supporting material constituting an amount not substantially greater than about 5% by weight of the total shell composition.

2,282,534
CONVEYER
Alfred Delos Sinden, Aurora, Ill., assignor to Reflex Conveyor Company, Quincy, Mass., a corporation of Massachusetts
Application March 9, 1939, Serial No. 260,774
4 Claims. (Cl. 198—229)



1. In a conveyer of the character described in combination, a substantially upright casing, a conveying element traversible therethrough, a rotary driving member mounted at the upper end of the casing and over which the conveying element passes, said rotary driving member comprising a double sprocket having its inner faces spaced apart and its peripheral portions arranged to cooperate with opposed portions of the conveying element during the passage of the latter thereover, a discharge outlet including a plate disposed in the casing below said double sprocket, and a stationary member secured to the casing and extending between the inner faces of said double sprocket to dislodge material adhering to said inner faces, said stationary member having a portion thereof engageable with said conveying element to cause disengagement of said conveying element from said sprocket at a predetermined point during the rotation of said sprocket.

2,282,535
PORTABLE PRESS DRILL
Walter L. Smith, Likely, Calif.
Application September 16, 1940, Serial No. 356,923
1 Claim. (Cl. 77—32)

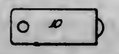


In a tool of the kind described, a vertical standard having a horizontally extended upper end, the extremity thereof being tapped vertically, an exteriorly threaded tubular feed shaft passed vertically through the tapped extremity of the standard and in threaded engagement therewith, a drill chuck journaled at the lower end of the feed shaft, a centrally apertured ratchet gear anchored concentrically on the upper end of the feed shaft, a work-shaft passed freely through the tubular feed shaft and locked at its lower end to the drill chuck, a circular cam rigidly and eccentrically mounted on the upper end of the work-shaft, a medially and longitudinally slotted pawl carrying arm having a circular cut-out at its inner end and thereby journaled upon said cam of the work-shaft above the said ratchet gear of the feed shaft, a pawl pivoted through its heel to the outer end of the pawl carrying arm, the toe of the pawl being adapted to traverse the periphery of the ratchet gear, an anchor arm journaled at its inner end to the work shaft above the pawl carrying arm, an anchor pin depended from the outer end of the anchor arm into slidable engagement with the horizontal end of the standard, a guide pin seated medially in the anchor arm and extended freely into the slot of the pawl carrying arm, and means for resiliently urging the said pawl against the said ratchet gear.

2,282,536
METHOD OF PREPARING SYNTHETIC TANNING AGENTS
Robert C. Swain, Riverside, and Pierrepont Adams, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application November 1, 1940, Serial No. 363,874
6 Claims. (Cl. 260—42)

1. A method of preparing tanning agents which comprises reacting a member of the group consisting of sulfonated phenols and sulfonated aromatic hydrocarbons with an aqueous solution of formaldehyde having not more than 10% of melamine dissolved therein until a water-soluble product is obtained.

2,282,537
METHOD OF MAKING PIVOT MEANS
Loren L. Whitney, Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application September 20, 1939, Serial No. 295,749
7 Claims. (Cl. 29—148)



1. The method of forming a pivot member with retaining means at one end thereof and having a shank with hardened wear surfaces comprising, cutting bar stock to expose an unhardened core end, upsetting the unhardened core end to form a welding contact comprising a protuberance encircled by a channel, and welding a head on said end, excess metal from said welding being retained in said channel between said head and said end.

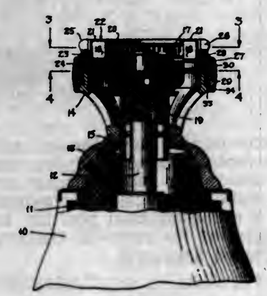
2,282,538
SPRING-SUPPORTED SOLID FLOAT INDICATOR
David Robert Yarnall, Philadelphia, Pa., assignor to Yarnall-Waring Company, Philadelphia, Pa., a corporation of Pennsylvania
Application August 3, 1939, Serial No. 288,231
16 Claims. (Cl. 73—309)

1. In an indicator for water level, a float chamber casing, a longitudinally resilient tension support therein free from mechanical frictional resistance, a solid float suspended from the support substantially submerged at highest water level and substantially out of the water at lowest water level, walls forming a target casing, fluid-



tight connections between the target casing and the float chamber casing, a target within the target casing suspended from the float, the float, connections and target being free from lateral engagement with their surrounding walls, whereby the target and its entire suspension are free from all initial starting friction.

2,282,539
SHAVING MACHINE
Gustave F. Bahr, Fairfield, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut
Application August 25, 1938, Serial No. 226,656
5 Claims. (Cl. 30—43)

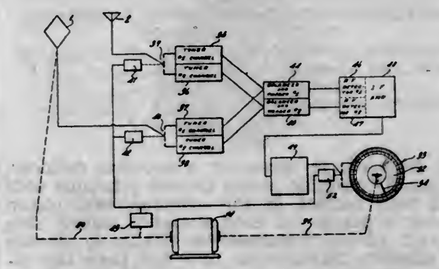


2. In a dry shaving device, a casing; a circular cutter plate having a face-engaging portion and side walls depending therefrom provided with an outwardly extending flange, the cutter plate being provided with radially disposed slots extending through the face-engaging portion and side walls thereof; a protecting ring surrounding the side walls and having a shoulder for engaging one face of the flange, said protecting ring preventing the skin of the user from contacting the slots in the side walls and having a plurality of openings aligned with the slots whereby hairs may pass into the hair-receiving slots; and means within the protecting ring for engaging the other face of the flange to lock the plate and protecting ring together, said protecting ring projecting beyond the locking means and forming a means whereby the plate is secured to the casing.

2,282,540
VITRIFIABLE COMPOSITION FOR DECORATING GLASSWARE
Alden J. Deyrup, Westfield, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 30, 1941, Serial No. 400,563
2 Claims. (Cl. 106—49)

1. A low-melting vitrifiable flux, suitable for application to glassware of low expansion characteristics, said flux having substantially the following composition: lead oxide 21.0 to 32.5%, zinc oxide 30.0 to 41.5%, boric oxide 21.0%, silica 8.5%, sodium oxide 2.5%, cadmium oxide 4.0%, titanium dioxide 1.5%, said lead oxide and zinc oxide content totaling together 62.5%, all said percentages being by weight based on the total weight of said flux.

2,282,541
DIRECTION AND POSITION FINDER
Philip Bernstein, Brooklyn, N. Y., assignor to Press Wireless, Inc., Chicago, Ill., a corporation of Delaware
Application December 11, 1940, Serial No. 369,519
4 Claims. (Cl. 250—11)

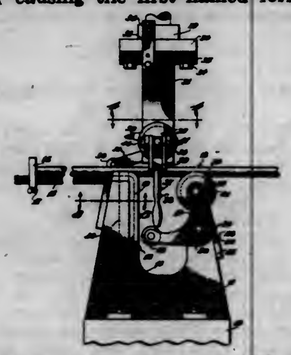


1. In a radio guiding system, a directionally sensitive antenna system including a rotating loop, a radio receiving system connected to said antenna system, means effective at regularly recurrent intervals to tune said receiving system alternately to a plurality of known marker frequencies, a plurality of light sources illuminated alternately under control of said receiving system, a light shutter for said light sources, and means to rotate said shutter and said loop in synchronism at a rate within the persistency of vision.

2,282,542
APPARATUS FOR FORMING WATER HEATING COILS
Winford L. Enghauser, Cincinnati, Ohio, assignor to The Production Plating Works, Inc., Lebanon, Ohio, a corporation of Ohio
Application December 5, 1938, Serial No. 243,908
5 Claims. (Cl. 153—33)

2. An apparatus for forming a length of tubing into a reversely bent element, comprising; a support including a throat, a bell crank pivoted on the support at one side of the throat, one arm of said bell crank extending upwardly, a forming wheel mounted thereon, a forming wheel adapted to be moved into the throat, said bell crank having one of its arms extended into

the throat and engageable by the descending tubing for causing the first named forming wheel



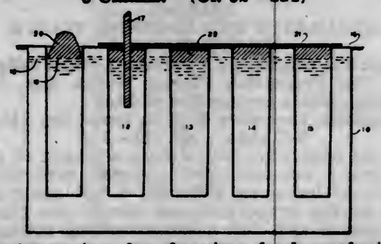
to bend the tubing around the descending forming wheel.

2,282,543
SEALING RING FOR ROTARY HYDRAULIC CLUTCHES
Frank M. Kincaid, Jr., Mountain Lakes, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York
Application January 13, 1941, Serial No. 374,265
8 Claims. (Cl. 192—85)



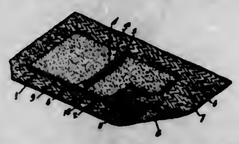
1. In a clutch assembly, a rotating cylinder, an axially movable piston therein rotatable with and with respect to the cylinder, said piston having a peripheral groove, and a sealing ring in said groove preformed to elastically assume an effective diameter, at rest, less than the inside diameter of the cylinder, said ring being expansible under the influence of centrifugal force, due to piston rotation, to sealingly engage the cylinder wall.

2,282,544
REFRIGERATING APPARATUS AND METHOD OF FREEZING LIQUID FOOD PRODUCTS
Nels H. Rosberg, Pasadena, Calif., assignor to California Consumers Corporation, Los Angeles, Calif., a corporation of California
Application October 21, 1940, Serial No. 362,109
3 Claims. (Cl. 62—114)



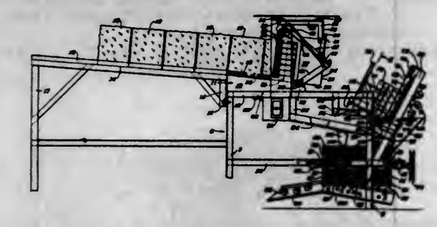
3. Apparatus for freezing food products in small blocks, comprising: a cell and means for refrigerating said cell, and a plate arranged horizontally over the upper end of said cell and resting substantially on the upper edge thereof, said plate carrying a downwardly directed boss projected into the upper end of said cell and having a smooth and substantially horizontal metallic surface.

2,282,545
GARMENT POCKET AND METHOD OF MAKING SAME
Nathan M. Rosenstein, West Hartford, Conn., assignor to Myrtle Knitting Mills, Incorporated, a corporation of Connecticut
Application December 5, 1939, Serial No. 307,578
12 Claims. (Cl. 2—247)



1. In a garment having a pocket slit, pocket forming means inside said garment having a slit therein and the edges of the latter surrounding said pocket slit, and buttonhole stitching around the edges of said slits forming an exposed stitched margin of the pocket aperture on the outside of the garment and also connecting the margin of said slit in said pocket forming means to the margin of said pocket slit.

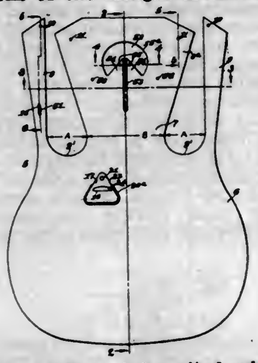
2,282,546
APPARATUS FOR CUTTING ICE
Oscar Schwimmer, Los Angeles, Calif.
Application December 17, 1938, Serial No. 246,523
9 Claims. (Cl. 219—19)



1. In an ice cutting machine, an inclined grid, a transfer receptacle adapted to receive ice to be cubed, means to eccentrically mount said receptacle, said receptacle being movable on said means to a predetermined position in response to the weight of ice received therein to swing said ice toward said grid.

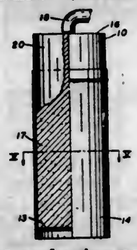
2,282,547
DEPOSITED RUBBER ARTICLE
Abraham N. Spánel, Dover, Del.
Application April 7, 1939, Serial No. 266,571
6 Claims. (Cl. 2—48)

1. A seamless, deposited rubber apron including a skirt portion, a bib portion and a collar portion, and tie strings projecting from opposite sides of said skirt portion, one side edge of each tie string being joined to an adjacent edge of the bib and collar portion by a broad curved edge of said skirt portion, said collar portion and the ends of said tie strings having cooperating stud-receiving apertures formed therein, whereby the ends of said strings may be secured to said collar with studs inserted in registering stud receiving apertures in said collar and tie strings, substantial portions of the margin of said apron being



reinforced by ridges of deposited rubber integral therewith.

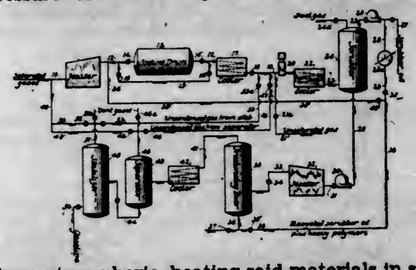
2,282,548
SHIPPING AND STORING METHOD FOR BULK ICE CREAM AND THE LIKE
Russell Stover, Kansas City, Mo.
Application August 13, 1938, Serial No. 224,832
6 Claims. (Cl. 62—174)



1. A method of packaging comparatively large units of normally liquid material frozen to a substantially solid state which consists in first opening a non-rigid collapsible closed-end paper container of such thinness that is normally not self-sustaining nor form-retaining, then filling the container with a normally liquid material frozen to a plastic state, folding the open end of the container to form an enclosure for the contents, and then subjecting the container with its enclosed plastic contents to refrigeration to render the container and contents self-sustaining and form-retaining for storage and shipping purposes.

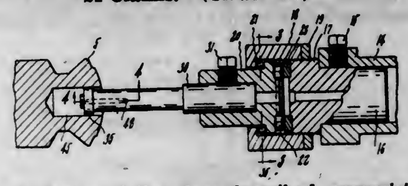
2,282,549
POLYMERIZATION OF HYDROCARBON GASES
Frederick W. Sullivan, Jr., and Robert F. Ruthruff, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application November 25, 1931, Serial No. 577,226
4 Claims. (Cl. 196—9)

1. The process of obtaining polymerized low boiling liquid products of the gasoline boiling range from a gas mixture containing methane, hydrogen, and less than fifty percent of gaseous olefinic hydrocarbons which comprises compressing said mixture to pressures of 100–1000 pounds per square inch above atmospheric, contacting the compressed gas mixture with a hydrocarbon solvent medium having a relatively low solvent power for methane and non-hydrocarbon gases under the working conditions, separating methane and other undissolved gases from said solvent charged with dissolved hydrocarbon gases and removing said separated methane and other undissolved gases from the system, injecting said solvent charged with said dissolved gases into a polymerization reaction system maintained at a pressure of 500–3000 pounds per square inch



above atmospheric, heating said materials in said system to a temperature about 700–1200° F. and maintaining them at said temperature to effect conversion, cooling conversion products and separately recovering gasoline, oils boiling higher than gasoline, and unconverted gases, the said solvent being characterized by substantially complete thermal stability under the operating conditions of the polymerization step.

2,282,550
METHOD AND MACHINE FOR PRODUCING BURNISHED WORK
William W. Trerice, Van Dyke, Mich., assignor to Cone Automatic Machine Company, Inc., Windsor, Vt., a corporation of Vermont
Application June 14, 1939, Serial No. 279,076
21 Claims. (Cl. 29—37)

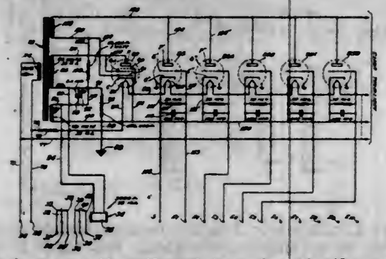


1. A device of the class described, comprising a burnishing tool in the form of a disk having a periphery rounded longitudinally of its axis, and a shank to one end of which said tool is secured, said tool and shank being provided with a passage leading from the outer end of said tool, through said tool and out through said shank.

2,282,551
BURNER SAFETY CONTROL
Robert E. Yates, Chicago, Ill., assignor to Drying Systems, Inc., Chicago, Ill., a corporation of Illinois
Application December 12, 1938, Serial No. 245,173
7 Claims. (Cl. 158—28)

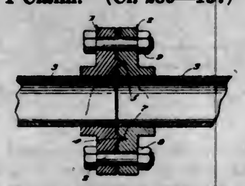
1. In a safety control apparatus for a multiple fuel burner system having a plurality of pilot burners and associated main burners, the combination of means for regulating the supply of fuel to said pilot burners and main burners, an electron tube including a filament, a control grid and a plate, means embodied in a plate circuit of said electron tube and controlling said regulating means to enable the supply of fuel to said burners only when said electron tube is conductive, a plurality of other electron tubes each al-

located to a respective one of said pilot burners and each including a filament, a control grid and a plate, a plurality of sensing devices each disposed to sense the presence or absence of a flame in a respective pilot burner, circuit means connecting said sensing devices respectively to the grids of said other electron tubes and being so constituted and arranged that each tube is rendered nonconductive in the presence of a flame in its coresponding burner, other circuit



means connecting the plates of said other electron tubes in common to the grid of the first-named tube and being so constituted and arranged that said first tube is rendered conductive only when all of said other tubes are nonconductive, and still other circuit means connecting the filaments of all of said tubes in series whereby failure of any of said filaments renders said first tube nonconductive and thereby prevents the supply of fuel to said pilot burners and said main burners.

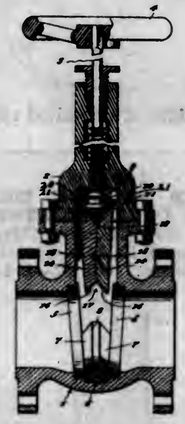
2,282,552
NONGASKET FLANGE
Michael W. Banowetz, New Orleans, La., assignor to B & H Manufacturing Company, Inc., New Orleans, La., a corporation of Louisiana
Application November 15, 1940, Serial No. 365,828
1 Claim. (Cl. 285—137)



In a device of the class described, the combination of a primary and an auxiliary unit, said primary unit comprising a flat disc-like body, said body provided on its inner face with a single substantially V-shape tongue, said tongue being machined and having flat side faces and a flat outer edge face, said auxiliary unit provided with a groove of greater depth than the rib V-shaped in cross section and having its walls machined, and means for holding said units in cooperating engagement with each other with the rib wedged into the groove and the flat edge face of the tongue spaced from the bottom of the groove.

2,282,553
GATE VALVE
Michael W. Banowetz, New Orleans, La., assignor to B & H Manufacturing Company, Inc., New Orleans, La., a corporation of Louisiana
Application May 22, 1941, Serial No. 394,724
2 Claims. (Cl. 251—69)

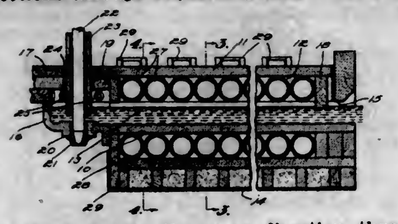
1. In a gate valve, a casing open at its ends and formed with a longitudinal bore and having an upstanding neck intermediate its length and an internal pocket in its bore under said neck, rings in the pocket threaded to walls of the casing at opposite ends of the pocket and converging downwardly, a crescent-shaped valve seat in said pocket fitting snugly into and filling the space between lower portions of said rings and having a portion projecting upwardly from inner side-edges of lower portions of the rings and bevelled from its opposite sides and formed with a flat upper edge face, a bonnet mounted upon said neck, a stem threaded through said bonnet, a head at the lower end of said stem formed with a circumferential groove, a gate consisting of semi-circular discs having confronting inner side-faces contacting with each other and formed



along their upper ends with registering recesses and flanges along upper edges of the recesses engaged in the groove of said head, a cross bar carried in said recesses and being V-shaped in cross section, one disc having a transversely-extending groove in its inner side face and the other disc being formed with a transverse rib engaged in the groove, and said discs having their arcuate marginal edge-faces bevelled inwardly to form the gate with a marginal groove V-shaped in cross section, the protruding portion of the valve seat being engaged in the marginal groove of the gate and forcing outer side-faces of the discs into tight contacting engagement with inner side faces of the rings when the gate is lowered to a closed position by turning said stem.

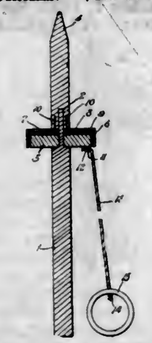
2,282,554
APPARATUS FOR AND METHOD OF REGULABLY CONTROLLING THE TEMPERATURE OF MOLTEN GLASS IN FOREHEARTHS
William T. Barker, Jr., West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware
Application November 1, 1939, Serial No. 302,350
6 Claims. (Cl. 49—54)

1. In a forehearth, a flow channel for molten glass, a series of transversely extending passages located above the channel in heat exchanging relation with a stream of glass therein, a series of transversely extending passages located beneath the flow channel in heat exchanging relation with the bottom of said channel, individual passages of said first named series respectively being vertically aligned with individual passages of said second named series, and means for passing temperature influencing media in opposite directions through adjacent passages of each of



said series and in the same direction through vertically aligned passages of the two series.

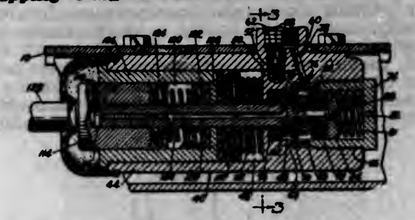
2,282,555
TOY RING GAME
James M. Beatty, Brooklyn, N. Y.
Application October 29, 1940, Serial No. 363,279
3 Claims. (Cl. 273—99)



1. In a whirling-motion game, comprising an axle adapted to be gripped in the hand, said axle having a reduced upper end providing a bearing, an annular dial member having triangular indicia on its upper surface and being rotatably mounted on said bearing, said indicia being successively differently colored, an inverted dish-shaped casing fixed to said reduced upper end-portion of said axle and having a trapezoidal sight opening at its upper surface, said annular indicia member being of smaller diameter than said dish-shaped casing to permit rotation thereof within said casing, said indicia being circumferentially positioned and adapted to successively come into view in said sight opening, said rotatably mounted indicia member having a ring-shaped target secured thereto by a flexible string, said indicia member being adapted to rotate and acquire momentum when said axle is whirled with its lower end in fixed position in the hand of the user and its upper end motivated in a circular orbit.

2,282,556
MOTOR
Herbert C. Bowen, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California
Application December 5, 1938, Serial No. 244,081
8 Claims. (Cl. 60—54.6)

4. A fluid pressure actuated motor comprising a cylinder having a large chamber and a small chamber, a compound piston reciprocable in the large chamber, a variable chamber between the parts of the compound piston, means for introducing fluid under pressure into the variable chamber, and means in the small chamber for trapping fluid in the variable chamber and



means effective thereafter to transfer the pressure on one of the pistons to the other.

2,282,557
SYNTHETIC OILS
Herman A. Bruson, Philadelphia, Pa., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa.
No Drawing. Application May 9, 1940, Serial No. 334,169
14 Claims. (Cl. 260—410)

1. The process which comprises heating to reacting temperatures a mixture of an esterified phenol having at least one acyloxy methyl group attached to the aromatic nucleus and an ester of a poly unsaturated higher aliphatic carboxylic acid.

8. A composition of matter resulting from the condensation of an esterified phenol having at least one acyloxymethyl group attached to the aromatic nucleus and an ester of a poly unsaturated higher aliphatic carboxylic acid.

2,282,558
CAR TRUCK
Charles R. Busch, Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y., a corporation of New York
Application November 1, 1939, Serial No. 302,267
23 Claims. (Cl. 188—212)

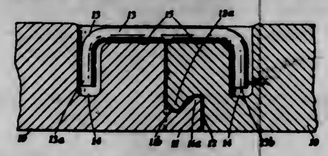


1. In a car truck, the combination of a side frame, a brake beam, a guide supporting the beam upon the inner side of the side frame and which is of a length to guide the beam during its range of travel, and a beam confining guide supported on said side, and which is substantially coextensive with and located above the supporting guide, the confining guide formed entirely separate from the side frame independently of the supporting guide, and provided with means to so support it on the said inner side of the frame movable away from the supporting guide as to render the beam removable upwardly.

2,282,559
PROTECTIVE TILE
Edward Victor Byers, Nottingham, England, assignor to H. J. Baldwin & Company, Limited, Nottingham, England
Application August 6, 1940, Serial No. 351,595
In Great Britain June 21, 1940
1 Claim. (Cl. 72—0.5)

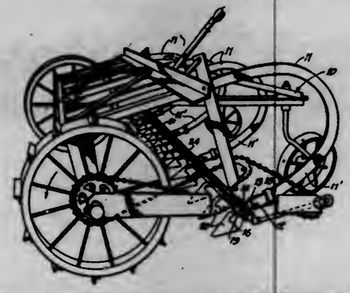
A slab-like protective or warning tile for cov-

ering underground cables, having opposed end faces from the lower portion of one of which a substantially rectangular tongue projects longitudinally, said tongue having a longitudinally sinusoidal upper face the medial portion of the high part of which is cut away; the lower portion of the other end face of said tile having a recess provided with a longitudinally sinusoidal upper face, there being a medial web extending



longitudinally across the high portion thereof for reception by the cut away portion of the tongue of an adjacent tile, said tongues and recesses providing intimately interfitting connections between adjacent tiles which resist longitudinal separation thereof as well as prevent relative lateral movements between them in either direction and relative vertical movements between them in one direction.

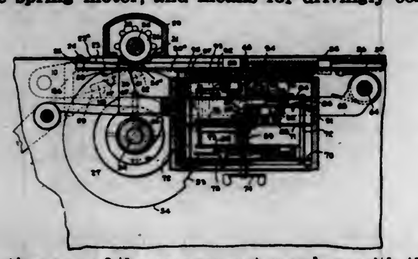
2,282,560
WEEDER
Claude C. Calkins and Laurence A. Hunt, Spokane, Wash., assignors to Calkins Manufacturing Company, a corporation of Washington
Application May 31, 1941, Serial No. 395,986
12 Claims. (Cl. 97—42)



1. In a weeder of the class described, having a gang of longitudinal beams terminating at their rear ends in goosenecks, the combination of a bar attached to and crosswise of the lower ends of said goosenecks, a group of shovels having shanks attached to and extending forwardly of said bar, and a rotary weeder rod mounted parallel with and over and in the same vertical plane as said bar.

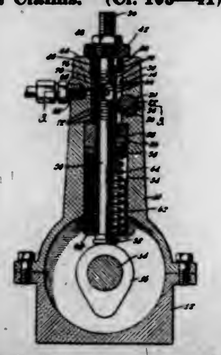
2,282,561
VENDING MACHINE
John T. Callahan, Jr., San Antonio, Tex., assignor to Policy Vending Corporation, San Antonio, Tex., a corporation of Texas
Application August 15, 1940, Serial No. 352,792
2 Claims. (Cl. 234—54)

1. A time recorder comprising a time wheel and a date wheel, said wheels being mounted for rotation about a common axis, a gear carried by each of said wheels, a spring motor including a spiral spring, a barrel and a shaft, the opposite ends of the spring being connected respectively to the barrel and to the shaft, an escapement mechanism including rotatable members drivingly connected to the barrel and the shaft of the spring motor, and means for drivingly con-



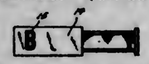
necting one of the escapement members with the gears carried by the time and date wheels.

2,282,562
DIESEL ENGINE FUEL PUMP
Wheeler J. Cole, Ann Arbor, Mich.
Application November 7, 1939, Serial No. 303,337
7 Claims. (Cl. 103—41)



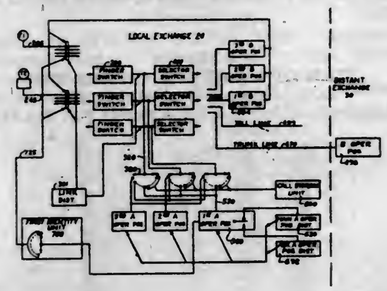
1. A fuel injection pump comprising a casing having a fuel chamber; a fixed plunger having a fuel outlet passage; a reciprocatory fuel injection plunger arranged coaxially with the fixed plunger; an adjustable fuel metering sleeve slidable axially on said first plunger and slidably receiving said reciprocatory plunger; a sealing means extending circumferentially about said sleeve and comprising a wall portion of said fuel chamber; said fixed and reciprocatory plungers being axially spaced and said sleeve having a port placing the interior of the sleeve between the fixed and reciprocatory plungers in communication with said chamber; said reciprocatory plunger closing said port upon a predetermined fuel injection stroke travel relatively to the sleeve to force fuel trapped in the sleeve through said fuel outlet passage; and means for shifting said sleeve relatively and axially of said fixed and reciprocatory plungers to vary the amount of fuel trapped in said sleeve.

2,282,563
BRACELET LOCKET
Alfred Corbi, Pawtucket, and Leo Bojar, Providence, R. I.; said Corbi assignor to said Bojar
Application July 22, 1941, Serial No. 403,506
8 Claims. (Cl. 63—5)



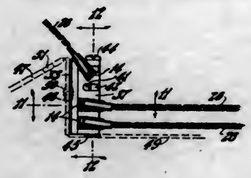
1. In combination, a bracelet, and a compartment consisting of a top and an interengaging, relatively slidable base, the top being secured to one bracelet end, and the base to the other bracelet end, said top and base having cooperating catch and latch parts.

2,282,564
TELEPHONE SYSTEM
Thomas F. Crocker, Chicago, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Original application March 29, 1940, Serial No. 326,619. Divided and this application October 5, 1940, Serial No. 359,871
23 Claims. (Cl. 179—27)



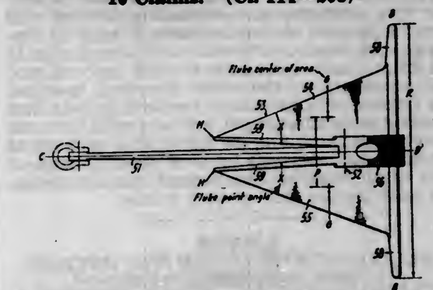
1. In a telephone system, a plurality of subscriber lines, each of said subscriber lines being identified by a particular character, a plurality of A operator positions, a B operator position, means for routing a call on any one of said subscriber lines to an idle one of said A operator positions to be answered, means for routing a call from said one A operator position to said B operator position, means under the control of an operator at said one A operator position for establishing a connection between said one subscriber line and said B operator position independent of said one A operator position, thereby to route a call on said one subscriber line to said B operator position, means controllable from said B operator position for positively selecting an idle one of said A operator positions to supervise said established connection, and means controllable from said one A operator position for indicating the particular character identifying the subscriber line included in said established connection.

2,282,565
LOOSE LEAF BINDER
William H. Crowley, West Springfield, Mass.
Application February 17, 1941, Serial No. 379,208
7 Claims. (Cl. 129—35)



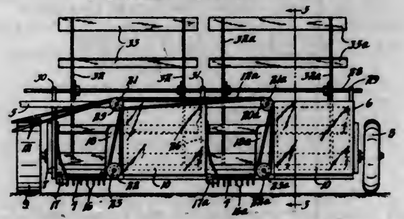
6. A loose leaf binding unit comprising two jaws pivotally connected on a longitudinal axis, said jaws being formed with cooperating gripping elements at their front and rear edges, means for forcing said jaws into gripping relation.

2,282,566
TWIN FLUKE ANCHOR
Richard S. Danforth, Berkeley, Calif.
Original application March 12, 1941, Serial No. 382,943. Divided and this application July 7, 1941, Serial No. 401,323
10 Claims. (Cl. 114—208)



1. An anchor of the twin fluke type comprising a shank having a forward and an after end with a point of cable attachment at said forward end, a pair of flukes joined together to form a one piece structure with each fluke fixed relative to the other, a pivot mounting said flukes on said shank at said after end with said flukes extending toward said forward end and with said shank between said flukes, and a stock adjacent the after end of said flukes, said flukes substantially simultaneously engaging the ground when in operative position, a crown provided at the after ends of said flukes having ground engaging portions thereon sloping rearwardly from the flukes at an angle thereto of between 25° and 45° and terminating at a point raised above the fluke faces to slide along the ground and rotate the flukes when the anchor is on the ground with the flukes and shank in substantially the same plane, said shank and flukes being so proportioned and positioned relative to each other when in operative position that the area of said flukes is approximately balanced about said pivot with at least 35% of the area of the flukes aft of said pivot, and a plane, passed through said point of cable attachment and through the centers of area of the fluke forward faces makes an angle with the plane of said forward fluke faces in the range of substantially 30° to 50°, said stock having an overall length at least twice the distance between the respective centers of area of the entire fluke forward faces, the area of said entire fluke forward faces being at least 60% of the resistance area of said anchor, as herein defined.

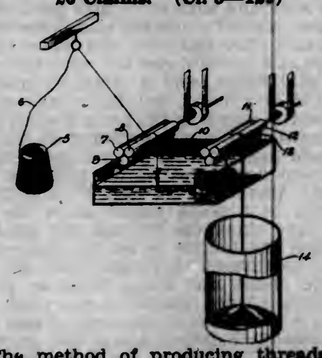
2,282,567
WINDROWER
Henry A. Ellefson, Jackson, Minn.
Application July 19, 1940, Serial No. 346,377
5 Claims. (Cl. 56—192)



1. A windrower comprising, an ambulant supporting frame having first and second sides, cut-

ter mechanism extending along the forward edge of said frame, a first crop conveyor extending from the first side of said frame toward the second side thereof and having a discharge end terminating a substantial distance from said second side, a second crop conveyor having one end thereof spaced from the discharge end of said first crop conveyor and extending toward said second side, said second conveyor having its discharge end located adjacent said second side of said frame, and means for driving both of said crop conveyors in the same direction to cause that portion of a cut swath received by said first conveyor to be discharged between said first and second conveyors, and to cause that portion of the cut swath received by said second conveyor to be discharged by said second conveyor adjacent said second side of said frame.

2,282,568
CELLULOSIC STRUCTURE AND METHOD FOR PREPARING SAME
Theron G. Finzel, Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application October 5, 1938, Serial No. 233,484
26 Claims. (Cl. 8—129)



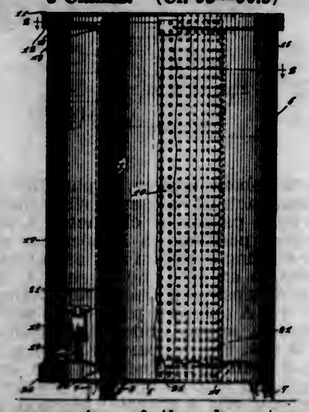
1. The method of producing threads, yarns, fabrics, and like structures comprising filaments exhibiting deep, irregular crimps without substantially weakening the filaments which comprises applying to such structures comprising artificial thermoplastic filaments a volatilizable material, and then contacting said structures, while maintaining the same free from tension, with a liquid non-solvent for said filaments, said liquid having a sufficiently elevated temperature to quickly volatilize said volatilizable material, and cause said filaments to crimp while in contact therewith, said volatilizable material having a boiling point at least 30° C. below the temperature of said liquid non-solvent.

2,282,569
AUTOMATIC SUCTION CIRCULATING PUMP
Georg Fabig, Berlin-Frohnau, Germany
Application April 17, 1939, Serial No. 268,156
In Germany April 21, 1938
6 Claims. (Cl. 103—96)



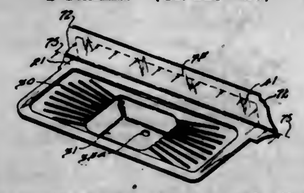
1. Rotary suction pump, which delivers a portion of the sucked-in liquid by displacement effect and another portion by centrifugal force, comprising a pallet rotor with symmetrically formed vanes having continuous side edges, a casing enclosing said rotor and having inlet ports and outlet ports, the outlet port of the displaced portion of liquid being separated from the outlet port of the portion delivered by centrifugal force, a channel for the liquid ring exerting the displacing effect provided in said casing on one side of said vanes, the cross-section of which increases in the sector of the admission port and decreases again in front of the discharge port for the displaced portion of the liquid, and a passage for the liquid delivered by centrifugal effect arranged in said casing on the opposite side of said vanes.

2,282,570
FILM DEVELOPING APPARATUS
Louis Golden, Fort Myers, Fla.
Application July 22, 1940, Serial No. 346,854
3 Claims. (Cl. 95—89.5)



1. An apparatus of the character described comprising a receptacle, a cover for said receptacle, a container mounted within said receptacle, means carried by said cover and guided by said container for supporting film to be developed within said receptacle, and means projecting laterally from said first means for maintaining said film under tension within said receptacle.

2,282,571
METHOD OF MAKING SINKS
Vincent J. Graf, Detroit, Mich., assignor, by mesne assignments, to Steel Plumbing Wares, Inc., Detroit, Mich., a corporation of Michigan
Application September 20, 1937, Serial No. 164,645
4 Claims. (Cl. 113—20)



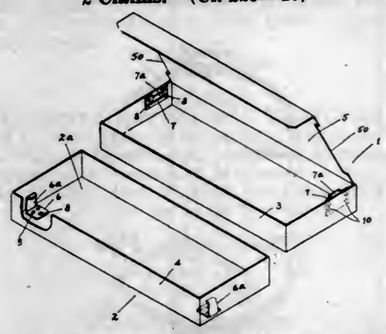
1. In a method of making a sink, the steps of drawing a relatively deep basin in a sheet metal blank while leaving substantially flat outwardly extending rim portions of the blank around all four sides of the basin lying in substantially a single plane, bending an upwardly extending splash panel from one of said rim portions along a line offset rearwardly of the upper edge of the back wall of the basin to provide a substantially flat shelf extending rearwardly of the basin and also extending the length of the sink in the common plane of said remaining rim portions, bending down the marginal portions of said remaining rim portions to provide a substantially flat horizontal rim and a depending apron extending continuously around three sides of the basin, and maintaining the junctures of the flat rim and splash panel seamless while carrying out said bending steps.

2,282,572
AIR GRILLE
Charles D. Graham, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application May 31, 1939, Serial No. 276,561
7 Claims. (Cl. 98—40)



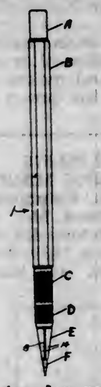
4. An air grille adapted to be mounted within an outlet opening through which refrigerated air is adapted to be discharged comprising in combination, an air grille frame, a coating of resilient insulating material bonded to said frame for insulating said frame from the air adjacent the discharge side of said air grille, and air deflecting means supported by said frame for directing the flow of air through said grille.

2,282,573
CARTON
Frederick H. Groves, Dormont, Pa.
Application June 29, 1939, Serial No. 281,872
2 Claims. (Cl. 229—47)



1. In a rectangular telescopic carton comprising a basal body member and a cover member, each having two end walls and two side walls, said basal and cover members adapted to be telescopically assembled to provide a rectangular carton of relatively shallow depth with respect to its length, said basal member carrying on its opposite end walls severally two female locking elements, the two female locking elements being located on such end walls adjacent to the opposite ends of one of the two side walls with which such end walls are united, with the effect that said female locking elements are arranged at an interval from and on one side of the vertical midplane that extends between and through said end walls of the basal member, said cover member carrying two male locking elements located severally adjacent to the opposite ends of the side wall of the cover member that corresponds to the last-mentioned side wall of said basal member, said male locking elements being so positioned that they are adapted, when the carton is assembled, telescopically to engage the female locking elements carried by the end walls of said basal portion, said male locking elements being arranged at an interval from the vertical midplane of the cover member that in the assembled carton is coincident with the above-mentioned midplane of said basel member, with the effect that said body members may be assembled in either of alternate positions and said complementary locking elements brought into carton-locking engagement or not.

2,282,574
DRAFTING PENCIL
Gerald K. Halbasch, Brookfield, Ill.
Application July 28, 1941, Serial No. 404,877
4 Claims. (Cl. 120—21)

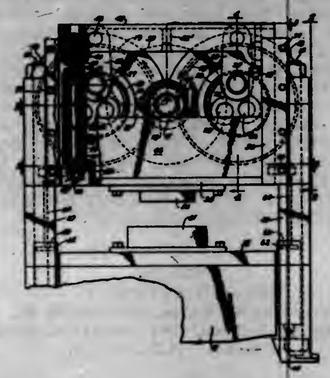


1. A pencil device for renewable leads comprising an adjustable slotted and fingered collet to receive and grip the lead, said collet being threaded at its rearward end, a compression sleeve to embrace said collet medially, a nut member to engage the threaded end of said collet, said collet being relatively large medially of its slotted part and tapered rearwardly from said medial portion, and said sleeve being forceably slidable forward by said nut to compress the front part of the fingers of said slotted part tightly against the front part of the lead, said collet being centrally drilled with successively greater bores rearwardly whereby desirable strength and lightness are obtained and a thin bendable base is provided for each lead gripping finger.

2,282,575
PRESS
Edward H. Hall, Chicago, Ill.
Application July 5, 1940, Serial No. 343,961
7 Claims. (Cl. 113—38)

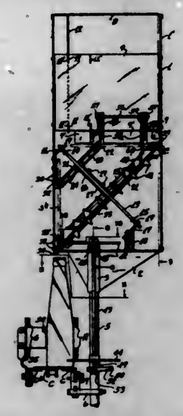
1. In a power press of the type having a vertical frame with power applying means rotatable at the top therein, a power receiving member above the said means, and a die carrier below the means connected adjacent the corners with said member; the power applying means comprising a driving pinion and horizontally opposite gears, each gear having peripheral side bearings and an unobstructed central portion provided with a plurality of holes located at different

distances from the axis thereof, a crank pin for the selective insertion in one of said holes of each gear and being of such length as to extend beyond both sides thereof, and connecting arms each



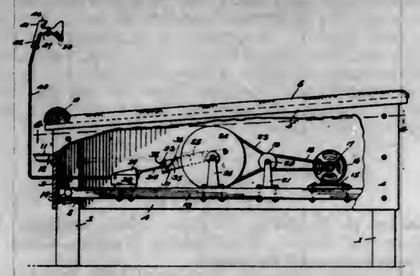
pivoted at one end to one extending end of the crank pin, and at the other end to the power receiving member, and means for adjusting the relative spacing of the power member and die carrier.

2,282,576
BOTTLING MACHINE
Francis C. Hamilton, Columbia, Ill., and Elmer C. Landholt, Overland, Mo.; said Landholt assignor to L. Ray Schuessler, St. Louis, Mo.
Application March 4, 1939, Serial No. 259,756
8 Claims. (Cl. 226—2)



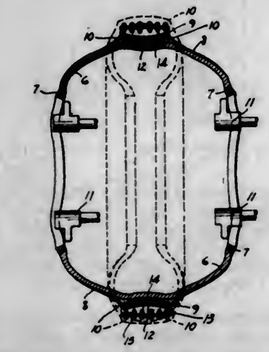
1. A bottling machine including means for moving through the machine bottles in which fluid is to be bottled, and means for automatically introducing a sipper into each bottle moving through the bottling machine as said bottle passes a given point, said sipper introducing means including a rotary structure adapted to conduct the sipper from substantially horizontal positions to substantially vertical positions for introduction into the bottles, a hopper for delivering sippers to said rotary structure in substantially horizontal positions, and actuating means for subjecting said rotary structure to rotary movement which is operated by contact of the moving bottles with a part thereof.

2,282,577
SCALP MASSAGING APPARATUS
Sidney A. Hamilton, Shreveport, La.
Application June 10, 1940, Serial No. 339,795
1 Claim. (Cl. 128—300)



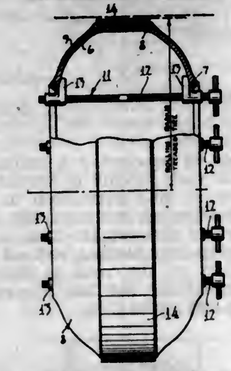
In a scalp massaging apparatus the combination with a housing having a top proportioned to support a person in a prone position thereon, of a suction pump in the housing having separate inlets, means in the housing for operating the pump, said pump and operating means being beneath the patient-supporting top of the housing, flexible tubes extending to the respective inlets and outwardly from the housing, a manually shiftable suction cup connected to the outer end of each tube and positioned to engage the head of the supported patient, and means under the control of the hand holding each cup for making and breaking suction in said cup.

2,282,578
METHOD OF TREADING TIRE CASINGS
Paul E. Hawkinson, Minneapolis, Minn., assignor to Paul E. Hawkinson Company, Minneapolis, Minn., a corporation of Minnesota
Application April 19, 1940, Serial No. 330,513
4 Claims. (Cl. 18—59)



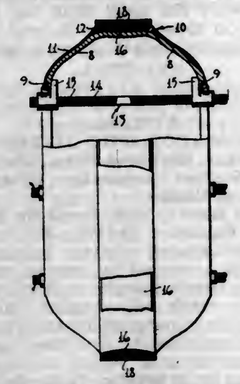
1. The method of treading tire casings which consists in contracting the peripheral portion of the tire casing to a materially reduced radius at all points about its circumference, in applying to the circumferentially and radially contracted periphery of the casing an annular band of new tread material, and in subjecting the new tread material to vulcanizing heat and pressure while retaining the newly treaded periphery of the casing in a materially circumferentially and radially contracted condition at all points about its circumference.

2,282,579
METHOD OF RETREADING TIRE CASINGS
Paul E. Hawkinson, Minneapolis, Minn., assignor to Paul E. Hawkinson Company, Minneapolis, Minn., a corporation of Minnesota
Application April 19, 1940, Serial No. 330,514
10 Claims. (Cl. 18—59)



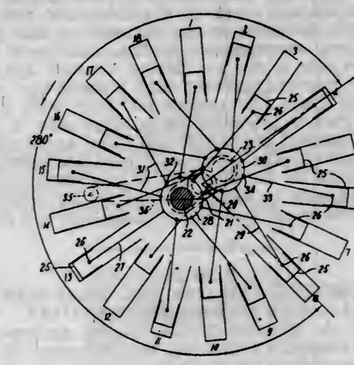
2. The method of retreading a tire casing which includes the steps of laterally spreading the beads of the tire casing at circumferentially spaced points simultaneously to materially contract the entire peripheral portion of the casing circumferentially and radially to a diameter materially under the normal inflated diameter thereof, applying an annular tread circumferentially about the crown portion of the casing in a manner to provide a fluid tight bond between the new tread material and the original tire material, and curing the newly applied tread material by subjecting the entire interior and exterior surfaces of the tire casing to direct surface contact steam under pressure while maintaining the beads of the tire in such laterally spread condition that the crown portion of the casing is materially contracted radially and circumferentially at all points about its circumference.

2,282,580
METHOD OF RETREADING TIRE CASINGS
Paul E. Hawkinson, Minneapolis, Minn., assignor to Paul E. Hawkinson Company, Minneapolis, Minn., a corporation of Minnesota
Application April 19, 1940, Serial No. 330,515
5 Claims. (Cl. 18—59)



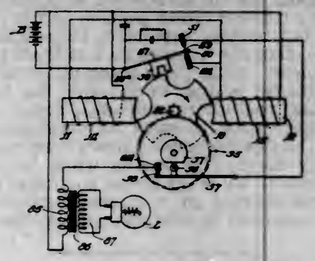
2. The method of retreading tire casings which includes applying an annular band of new tread material to the crown portion of the casing, laterally spreading the beads of the casing while maintaining the same in parallel relation and to an extent necessary to materially reduce the diameter of the crown portion of the casing at all points about its circumference, in applying over the newly treaded crown portion of the casing a flexible but endless expansion restraining band having a diameter materially less than the normal diameter of the road engaging crown of the newly treaded casing, in relieving the beads of the casing from lateral spreading action so as to permit the casing to exert its expansive energy against the flexible endless restraining band, and in finally curing the casing while leaving the beads free and while the crown portion of the casing is maintained in a circumferentially contracted condition by said restraining band.

2,282,581
IGNITION MEANS FOR RADIAL ENGINES
Kenneth A. Harmon, Longmeadow, Mass., assignor to Wico Electric Company, West Springfield, Mass., a corporation of Massachusetts
Application April 18, 1939, Serial No. 268,559
3 Claims. (Cl. 123—55A)



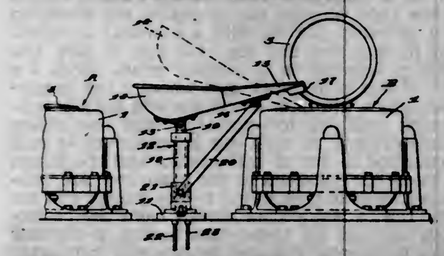
1. In a four-cycle internal combustion engine of the type wherein the cylinders are arranged in a plurality of rows with a plurality of cylinders in each row and the cylinders in each row radially disposed in a circular series about the axis of the crankshaft, and wherein the crankshaft has a plurality of cranks and master connecting rods one for each row, and one piston of one cylinder in each row is connected by said master rod to one of said cranks and the piston of the other cylinders in the same row are connected by rods articulated to the master rod for such row, a single cam driven from the crankshaft at half its speed and having a circular series of angularly spaced lobes equal in number to the number of cylinders in one said row, and a plurality of breaker point mechanisms one for each row of cylinders, each mechanism cooperating with the one cam but at angularly spaced locations relatively thereto, the angle between the cam-contacting parts of two successive mechanisms being equal to half the angle which the crank of one row must travel from its position at the time when the master piston of another row is in firing position to its position at the time when the master piston of the first-named row is in firing position.

2,282,582
MOTOR
Andrew F. Henninger and George B. Henninger, Chicago, Ill.
Application November 12, 1940, Serial No. 365,242
8 Claims. (Cl. 172—36)



8. Apparatus of the character described, comprising the combination with a motor structure having a rotor and a field provided with cooperating poles, of means to intermittently energize the field from a direct current source and to provide self-regulation of the motor as to speed over a wide range of voltage for said source, said means comprising a spring mounted arm, a permanent magnet supported by said arm in position to attract a pole of the rotor and pull the rotor into position to be started by the field poles upon energization of the field, said arm also carrying a circuit closing contact adapted to move into engagement with a stationary contact and close the circuit for said field when the magnet is attracted by a rotor pole, a stationary contact serving to limit the approach of the magnet to the rotor, said contacts being set at an angle to the direction of movement of the arm to create a wiping action of the contacts, and means to shift said arm radially of the rotor.

2,282,583
RECEIVING AND LOADING TRAY FOR LAUNDRY HYDRO-EXTRACTORS
Fritz W. A. Henrici, Milton, Mass., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York
Application February 8, 1941, Serial No. 378,038
3 Claims. (Cl. 214—130)



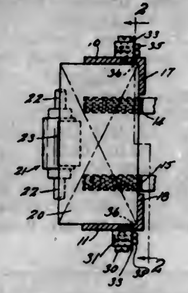
1. A receiving and loading tray comprising a base, a pedestal mounted on the base and including a portion mounted to swivel about an upright axis, a tray member pivotally mounted on the upper end of the pedestal, the tray member having a delivery chute, a brace pivotally connected at its lower end to the pedestal and at its upper end to the tray member between its pivotal connection with the pedestal and the delivery end of the chute, the pedestal including a jack operable to shift the tray member about the pivotal axis between it and the brace.

2,282,584
METHOD OF OPERATING ROTARY KILNS
George Dewey Hill, Millville, W. Va., assignor to The Standard Lime and Stone Company, Baltimore, Md., a corporation of Maryland
Application August 2, 1940, Serial No. 349,807
12 Claims. (Cl. 263—53)



1. The method of producing a reaction product of calcinable rock fluxing materials in a rotary kiln to reduce ring formation in the kiln, which method comprises calcining the rock during its initial travel through the kiln, adding the fluxing material to the calcined rock at the point where calcination of the rock is substantially complete, and sintering the mixture as it flows to the discharge end of the kiln.

2,282,585
SHEET RETAINER FOR MAGAZINE FEED
William Hoppe, Longmeadow, Mass., assignor to National Bread Wrapping Machine Co., Springfield, Mass., a corporation of Massachusetts
Application April 28, 1941, Serial No. 390,637
3 Claims. (Cl. 271—41)



1. In a magazine feeding mechanism for feeding paper sheets to a machine, a magazine for supporting sheets in stacked, superposed relation, feeding means located adjacent the magazine in position to engage frictionally the bottom-most sheet in the stack and move it laterally, and knife edges associated with the magazine and extending lengthwise of the pack from the bottom of the magazine on opposite sides thereof, said knife edges each engaging cuts in opposite lateral edges of the sheets.

2,282,586
ELECTRIC MOTOR UNIT OR THE LIKE
Earl F. Hubacker, Highland Park, Mich., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application April 4, 1939, Serial No. 265,965
5 Claims. (Cl. 172—36)

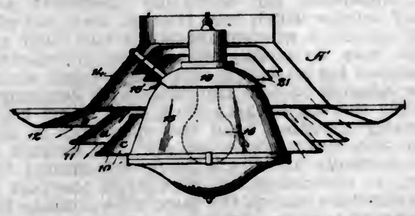
1. In a sealed motor, a stator including inner and outer rings arranged to provide an annular series of slots therebetween, each of said rings comprising a stack of annular laminations formed of magnetic material, motor windings arranged in said slots, said inner ring constituting an integral section of a sealed casing and said motor windings being arranged externally of said casing, a motor rotor arranged within said sealed

casing, and each of those portions of said inner ring bridging said motor winding slots includ-



ing a section of magnetic material of a dimension materially less than the dimension of the magnetic material between each of said slots.

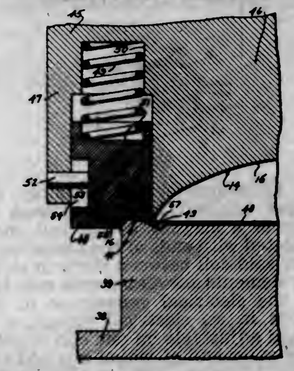
2,282,587
VENTILATING AND ILLUMINATING DEVICE
Franz J. Kurth, New York, N. Y., assignor to Anemostat Corporation of America, a corporation of Delaware
Application June 28, 1938, Serial No. 216,201
14 Claims. (Cl. 240—78)



1. A device of the character described comprising a plurality of successively larger, open-ended hollow, flaring members disposed in spaced apart relationship with their smaller ends facing the rear end of the device to provide a series of open-ended flaring passageways therebetween, means for mounting an electric lamp within the smaller of said members, a flaring reflector member constituting a rearward extension of the larger flaring member and having a lesser amount of flare than said larger flaring member and disposed rearwardly of the rear ends of the intermediate flaring members to intercept light rays emanating directly from a lamp mounted within the smaller of said members and to reflect said rays forwardly through said passageways, said reflector member being open at its rear end, and a neck connected with the rear end of said reflector member for connection with an air duct.

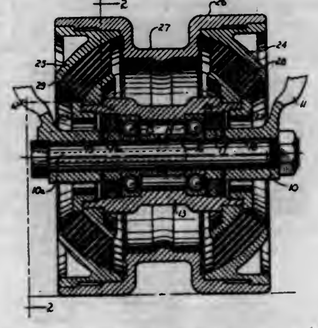
2,282,588
APPARATUS FOR FORMING METAL ARTICLES
George Albert Lyon, Allenhurst, N. J.
Application July 22, 1939, Serial No. 285,879
2 Claims. (Cl. 113—49)

1. In an apparatus for shaping a disk-like part having crown and ring portions and a wall portion connecting said crown and ring portions, cooperative die parts including a member for engaging the crown portion of said part, an annular member concentric with said crown engaging member and mounted for relative axial movement with respect thereto for engagement with the ring portion of said part, said annular member having a sloping wall corresponding in shape to the wall portion of said part and arranged to initially contact the same, said base member having a relatively narrow inclined annular recess with its outermost extremity aligned with and arranged to receive a lower extremity of said wall portion, said crown engaging member being movable toward said base member whereby the material of said wall portion is progressively curled and radially deflected inwardly into a double thickness slanting skirt between said crown and ring portions, said inclined recess slanting down-



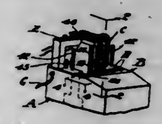
wardly and inwardly under said crown engaging member directly under the crown portion of the part engaged thereby so as to deflect the wall portion downwardly and inwardly and underneath said crown portion whereby the ensuing skirt is turned back under said crown portion.

2,282,589
WHEEL STRUCTURE
Robert Mayne, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application July 12, 1941, Serial No. 402,122
3 Claims. (Cl. 295—11)



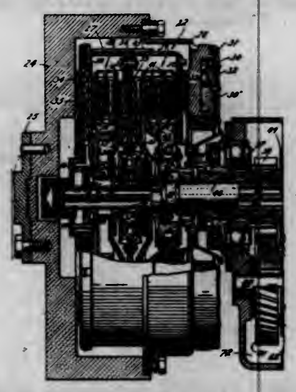
1. A wheel structure comprising a rim depressed centrally providing outwardly facing end sockets for receiving cushioning supports, an axle for said wheel structure, a sleeve rotatable about said axle and spaced radially from said rim, and a pair of cushioning supports seated at the ends of said sleeve in widely spaced-apart relation axially of the wheel and mounted within said sockets, each support comprising a pair of radially spaced-apart ring members mounted on said sleeve and in an end socket respectively, and rubber-like material in the space between said ring members and adhered thereto, said supports providing for extensive cushioned movement of the rim with respect to said sleeve including extensive cushioned tilting movement with respect thereto.

2,282,590
GALVANOMETER
William W. Miller, Pasadena, Calif., assignor to William Miller Corporation, a corporation of California
Application June 27, 1939, Serial No. 281,443
3 Claims. (Cl. 171—95)



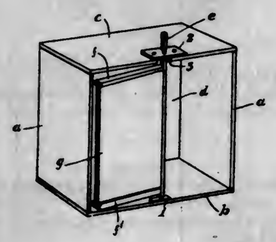
1. In a galvanometer coil assembly, an elongated frame adapted to be positioned between pole pieces of a magnet, a wire coil, metal ribbons connected with ends of the frame for flexibly suspending said coil between them in said frame, conductor elements associated with said frame for affording the electrical connection of said coil and ribbons in an electrical circuit, a tubular torsion head adjustable on one end of said frame and to the outer end of which one end of one of said ribbons is secured after passing through the bore thereof free of contact with the walls of said bore, and means for setting said head in adjusted position.

2,282,591
TRANSMISSION
Palmer Orr, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application February 14, 1938, Serial No. 190,368
9 Claims. (Cl. 74—364)



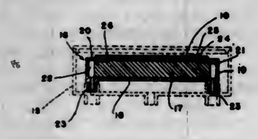
1. In a transmission, driving and driven elements, low, second and high speed trains connectable between said elements, fluid-operated means for rendering said second and high speed trains effective, overrunning clutches in said low and second speed trains, a fluid operated two-way clutch connected in parallel with the overrunning clutch in the second speed train, a common source of fluid under pressure, and control means for said fluid adapting said two-way clutch to be operated when the second speed fluid-operated clutch is operated, whereby the transmission may be connected for two-way drive in second speed to enable the driven element to drive the driving element.

2,282,592
APPARATUS FOR DISPLAYING FOODSTUFFS AND OTHER ARTICLES
Edward Quirk, Great Crosby, Liverpool, England
Application August 8, 1939, Serial No. 289,086
In Great Britain August 9, 1938
2 Claims. (Cl. 40—68)



1. Apparatus for displaying foodstuffs and other articles which comprises an open end display structure wherein foodstuffs and other articles may be readily placed and prominently displayed for inspection and sale, a frame structure adapted to hold two cards with descriptive matter thereon back to back, said frame being movably mounted upon the open end of said structure, means connected with and adapted to automatically move said frame for causing the cards to alternately shield goods in one part of the structure and at the same time indicate the nature and price of other goods appearing in another part of the structure.

2,282,593
APPARATUS FOR MANUFACTURING CONTOURED SHEETS AND THE LIKE
Paul C. Richardson, Pontiac, Mich., assignor to Baldwin Rubber Company, Pontiac, Mich., a corporation of Michigan
Application June 13, 1938, Serial No. 213,539
3 Claims. (Cl. 18—19)

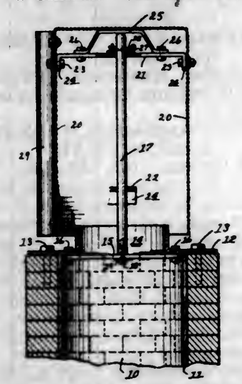


1. In apparatus for manufacturing a mat from vulcanizable stock, a form having a surface corresponding in shape to the predetermined desired contour of the completed mat and over which a sheet of uncured stock is adapted to be placed, means surrounding the surface aforesaid on the form and extending in a plane including the plane occupied by the uncured stock on the form, a sheet of flexible material covering the sheet of uncured stock and having the marginal edges overlapping said means providing a continuous seal around the marginal edges of the stock, and means subjecting the opposite sides of the covering sheet to the action of differential pressures with a preponderance of pressure acting on the exposed face of the covering sheet whereby the latter is drawn against the adjacent surface of the stock to in turn clamp the stock against the surface aforesaid of the form.

2,282,594
METHOD OF SWEETENING PETROLEUM PRODUCTS
Donald R. Stevens, Swissvale, and Joseph E. Nickels, Pittsburgh, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application March 2, 1939, Serial No. 259,486
2 Claims. (Cl. 196—33)

1. A method of producing a doctor sweetened gasoline having improved resistance to oxidational changes and improved response to antioxidant and antiknock compounds comprising treating gasoline containing mercaptans with a solution of sodium plumbite in an amount sufficient to convert the reactive mercaptans to lead mercaptides, and with sulfur in an amount just sufficient to convert said mercaptides to alkyl disulfides, and thereafter treating the lead sulfide-gasoline suspension thus formed with a solution of sodium tetraborate having a concentration sufficient to increase the settling rate of said suspension without rendering said gasoline sour.

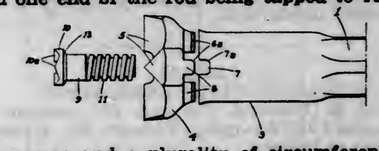
2,282,595
SPARK ARRESTER
Hugo Will, Elk Rapids, Mich.
Application January 19, 1940, Serial No. 314,639
2 Claims. (Cl. 183—64)



1. A spark arrester comprising a head plate adapted to be secured to the head of a smoke stack and having a circular stack draft emitting opening therethrough circumscribed by an upstanding flange, a vertically disposed post supported by the head plate and extending upwardly therefrom medially of its opening, a cylindrical wire mesh screen spacedly overhanging said upstanding flange providing a draft opening between the flange and screen and rotatably supported on said post, and a plurality of equidistantly spaced vanes secured to the outer surface of said screen for effecting continuous rotation of the screen upon its supporting post whereby the screen is cleansed by the wind during the rotation of the screen.

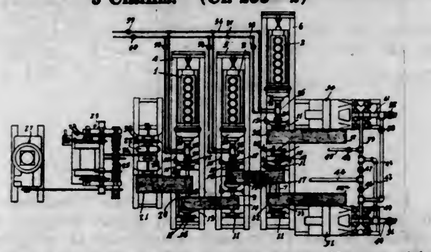
2,282,596
REPLACEABLE BIT FOR DRILL RODS
Edward T. Wise and Joseph L. Ghiglieri, Jackson, Calif.
Application November 13, 1939, Serial No. 304,106
1 Claim. (Cl. 255—64)

In a drill rod unit which includes a rod, an initially separate bit, and means detachably securing the bit axially on one end of the rod; said means comprising a screw having an enlarged circular head, the bit having an axial bore through which the screw projects from the bit face, the portion of the bore adjacent said face being enlarged to receive said head of the screw, said one end of the rod being tapped to receive



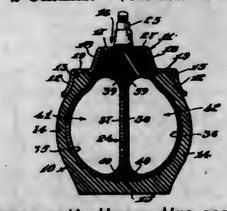
the screw; and a plurality of circumferentially spaced outwardly projecting radial teeth formed on the bit face about said enlarged portion of the bore and on the outer face of said screw head, the teeth on the bit face and screw head face being symmetrically formed and disposed.

2,282,597
WELL DRILLING PLANT
Merton T. Archer, Toledo, Ohio, assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 2, 1938, Serial No. 228,135
3 Claims. (Cl. 255—2)



1. In a rotary drilling apparatus, the combination of a pair of pumping mechanisms of the positive displacement type operatively connected for series operation, means to drive one of said pumping mechanisms, a prime mover, a power take-off shaft adapted to drive the other pumping mechanism; a hydraulic coupling operatively interposed between the prime mover and the power take-off shaft and adapted to transmit power to the latter, the slip of said hydraulic coupling acting to absorb variations in speed between the prime mover and the pumping mechanism driven thereby which are incident to series operation of the pumping mechanisms.

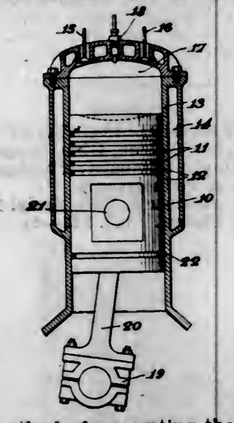
2,282,598
TIRE
Guillermo Austria, Los Angeles, Calif.
Application September 13, 1939, Serial No. 294,703
2 Claims. (Cl. 152—340)



1. In a pneumatic tire, a tire carcass, a pair of inflatable inner tubes arranged side by side in said carcass adapted when correspondingly in-

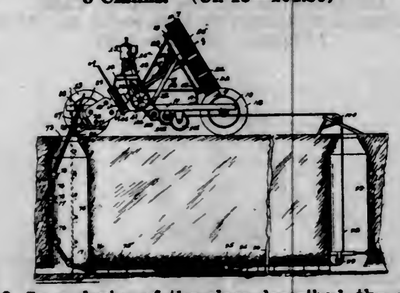
flated to form a double wall partition therebetween, each of said tubes being formed with an increased wall thickness at the inner and outer peripheral portion of the partition walls thereof, said increased wall thickness having an arcuate inner face formed on a curve the radius of which has a length exceeding the thickness of the partition wall of the tube.

2,282,599
DIESEL ENGINE LUBRICATION
Edward R. Barnard, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application November 17, 1937, Serial No. 175,156
5 Claims. (Cl. 184—6)



1. The method of preventing the "feathering" of piston rings in high speed Diesel engines operating under high load conditions at compression pressures of 500 to 800 pounds per square inch while said piston rings are coated with a film of synthetic hydrocarbon lubricating oil having a viscosity in the range of 20 S. A. E. to 50 S. A. E. motor oils produced by the catalytic polymerization of liquid isobutylene at a temperature between 0° F. and 100° F., comprising dissolving in said lubricating oil .001% to 0.2% of a substance selected from the class consisting of the oil soluble compounds of oxygen, sulfur, phosphorus and chlorine.

2,282,600
MACHINE FOR CLEANING LARGE DRAIN TILE AND THE LIKE
Samuel O. Blanc, Des Moines, Iowa
Application August 12, 1938, Serial No. 224,517
8 Claims. (Cl. 15—104.30)



2. In a device of the class described, the combination of a frame, a reel rotatably mounted therein, mechanically operated means for rotating said reel, a snake carried by said reel, a feeding device for moving the snake longitudinally comprising a pair of endless chains, a series of gripper blocks carried by said chains having their outer ends shaped to engage and fit the contour of the opposite sides of the coils of said snake, means for reversing the movement of said chains, means to constrain the reel and feeding device to rotate in unison, and means for guiding said snake from said reel to and through the axis of rotation of said reel and said feeding device, said guiding means being mounted to rotate either with, or relative to said reel.

2,282,601
YELLOW GLASS COMPOSITION
Henry H. Blau, Corning, N. Y., and Weston H. Gillett, Lock No. 4, Pa., assignors to Corning Glass Works, Corning, N. Y., a corporation of New York
No Drawing. Application June 25, 1938, Serial No. 215,918
7 Claims. (Cl. 106—54)

1. A yellow tinted glass containing silica, alkali oxide, zinc oxide and from about .005% to about .1% nickel oxide.

2,282,602
PROCESS FOR THE CONVERSION OF HYDROCARBONS
Harry E. Drennan, Whittenburg, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application March 15, 1938, Serial No. 196,048
8 Claims. (Cl. 196—10)

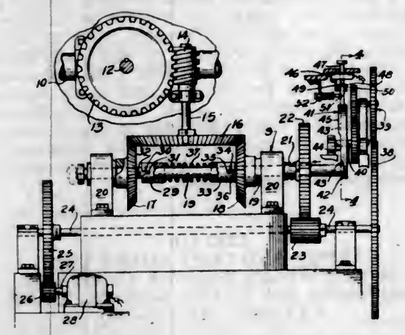
1. A process for the conversion of low molecular weight olefins to hydrocarbons of higher molecular weight which comprises contacting said olefins at conversion conditions of temperature and pressure with a catalyst comprising a moisture free mixture of phosphorous pentoxide and a metal oxide selected from the group consisting of the oxides of copper, magnesium, iron, zinc, aluminum, tin, and nickel, said mixture having been calcined under moisture-free conditions throughout the calcination with a binder which produces a carbonaceous residue upon heating, said catalyst being substantially non-hygroscopic and free from water.

2,282,603
PROCESS FOR HYDROGENOLYSIS OF CRUDE SUGAR BEARING MATERIALS
Robert N. Du Puis, Chicago, Ill., assignor to Association of American Soap & Glycerine Producers, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application July 21, 1938, Serial No. 220,497
14 Claims. (Cl. 260—635)

11. The method of producing hydrogenolysis products from crude sugars which comprises mixing the crude sugar with water, treating said sugar-water mixture with a solid adsorbtion agent selected from the group consisting of activated carbon, activated alumina, gelatinous hydroxides, silica gel, fuller's earth and activated clay, separating said crude sugar-water mixture from said solid adsorbtion agent, and reducing said crude sugar-water mixture to substantial dryness, suspending said dried crude sugar in methyl alcohol as a vehicle and while so suspended treating said crude sugar with hydrogen at pressures between 900 and 4000 pounds per square inch at temperatures of 150 to 300 degrees C. in the presence of a hydrogenation catalyst selected from the group consisting of copper-aluminum oxide and copper-barium chromite reduced and introduced into the reaction mixture without contact with substantial amounts of oxygen.

13. In a catalytic process for the production of hydrogenolytic products from a crude sugar product containing minor amounts of chlorides, the step which comprises removing chlorides from such material prior to subjecting such material to hydrogenolysis.

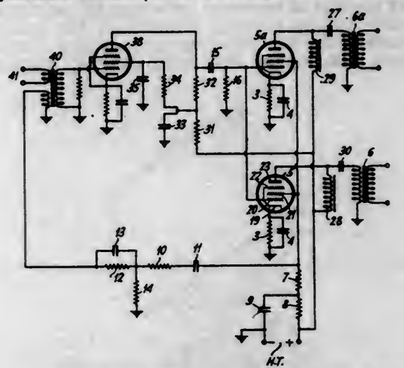
2,282,604
TOILET FLUSH MECHANISM
Leo L. Ingraham, Santa Barbara, Calif.
Application March 11, 1940, Serial No. 323,347
1 Claim. (Cl. 192—142)



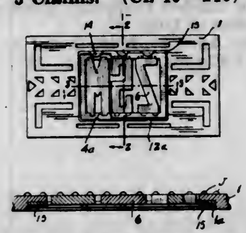
Reversible actuating and control means for a rotary shaft as described, comprising a bevel gear on said shaft, a drive shaft therefor adapted to be reciprocated and having a pair of bevel pinion gears mounted thereon engaging said bevel gear, a clutch connection between each of said pinion gears, and said drive shaft adapted to be selectively actuated when said shaft is reciprocated to turn said bevel gear in opposite directions, means to reciprocate said shaft when rotated, a motor drive for said drive shaft and a control switch therefor, said shaft reciprocating means having a cam adapted to disconnect said switch at a predetermined point upon the rotation thereof.

2,282,605
INVERSE FEED-BACK AMPLIFIER
Donald Gordon Lindsay, Kogarah, near Sydney, New South Wales, Australia, assignor to Amalgamated Wireless (Australasia) Limited, Sydney, New South Wales, Australia, a company of New South Wales, Australia
Application November 15, 1939, Serial No. 304,562
In Australia November 15, 1938
6 Claims. (Cl. 179—171)

1. An amplifier circuit arrangement comprising a plurality of electron discharge tube stages, each tube of which includes a cathode, an anode, a control grid and a screen grid, said screen grids of stages following a first stage being connected in parallel, means for producing inverse feedback potentials on the control grid of the tube in the first stage, said means including a load impedance in circuit with said parallel connected screen grids, and means for rendering said load impedance frequency-dependent.



2,282,606
INITIAL HOLDER
Oscar F. Placco, Cranston, R. I., assignor to Coro-Gram, Inc., New York, N. Y., a corporation of New York
Original application January 29, 1938, Serial No. 187,601. Divided and this application March 1, 1940, Serial No. 321,663
3 Claims. (Cl. 40—140)

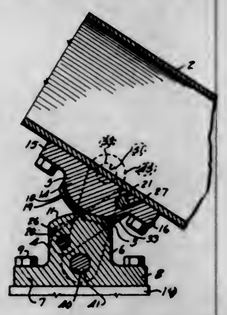


1. In a device of the character described, a main frame having a recess formed therein, a ledge extending around the edge-wall of said recess, a supplemental frame in which initials are located removably held in said recess and abutting said ledge, said supplemental frame having holding means located at its rear face, said holding means comprising lip-means located along one of its walls and projections located along the opposed wall, a resilient holding frame overlying the rear walls of said initials and holding said initials in position, said holding frame being wholly removable from the supplemental frame, the bottom wall of said holding frame having notches formed therein, the top wall of said holding frame abutting the inner face of said lip-means, the notches formed in the bottom wall of said holding frame abutting the said projections, said holding frame being located in the recess formed in the main frame.

2,282,607
ROCKER BEARING
Albert N. Porter, Tulsa, Okla., assignor to J. F. Darby, Tulsa, Okla.
Application December 1, 1939, Serial No. 307,087
11 Claims. (Cl. 308—21)

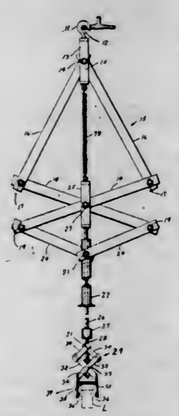
1. A bearing including a fixed bearing member having a body portion provided with a convex bearing surface of arcuate cross-section, a com-

plementary bearing member having a similar body portion of reversely arranged arcuate cross-section having rocking contact on the bearing surface of the fixed bearing member, links having pivotal connection with said bearing members



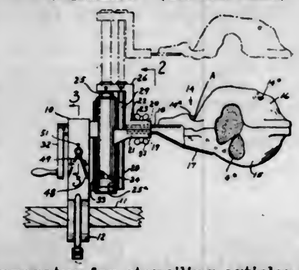
in the axes of said bearing surfaces, and a second pair of links having pivotal connections with the respective bearing members at points offset on the respective sides of the pivotal connections of the first named links.

2,282,608
HOIST
Dietrich G. Rempel, Barberton, Ohio, assignor to The Sun Rubber Company, Barberton, Ohio, a corporation of Ohio
Application April 17, 1940, Serial No. 330,099
10 Claims. (Cl. 254—122)



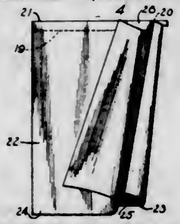
1. A hoist comprising a relatively fixed member, an extensible support connected to said member, an element, load-engaging means on said element, and a member shiftable on said element, portions of said support being spaced in the direction of extensibility of said support and being shiftable from and toward said fixed member to produce a velocity ratio between said portions with respect to said fixed member as the support is collapsed or extended, said element and said shiftable member each being connected to one of said portions to be relatively shiftable therewith, whereby said shiftable member is shiftable relatively of said fixed member to move said element with a mechanical advantage.

2,282,609
APPARATUS FOR STENCILING ARTICLES
Dietrich G. Rempel, Barberton, Ohio, assignor to The Sun Rubber Company, Barberton, Ohio, a corporation of Ohio
Application April 17, 1940, Serial No. 330,100
9 Claims. (Cl. 101—114)



1. Apparatus for stenciling articles comprising a unit rotatable about an axis, said unit including a pair of stenciling mask sections, means for mounting said mask sections to be relatively shiftable from and toward each other in parallelism substantially radially of said axis, means for rotating said unit about said axis, and means operable at will for shifting said mask sections toward and from each other, said unit thereby being rotatable about said axis to expose various openings in the mask sections for reception of a spray of paint or the like onto an article received between said sections.

2,282,610
CARBON AND COPY SHEET UNIT
Howard William Rotherick, Chicago, Ill.
Application May 15, 1941, Serial No. 393,525
4 Claims. (Cl. 282—26)

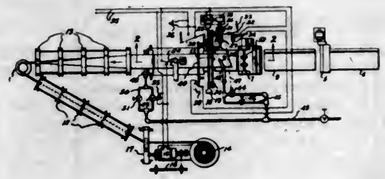


3. A single sheet of paper having a single transverse line of fold, a portion of said paper on one side of said fold being carbonized, and said paper being folded along said line of fold, said carbonized surface of said one portion lying opposite to and facing the portion of said paper on the opposite side of said line of fold, said last mentioned portion of said paper having a transversely weakened line in proximity to said line of fold, and said carbonized portion of said paper also having a transversely weakened line in proximity to said line of fold, one of said transversely weakened lines being spaced at a greater distance from said line of fold than the other of said transversely weakened line.

2,282,611
HANDLING SILICON STEEL STRIP
August W. Ryan, Zanesville, Ohio, assignor to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio
Application April 27, 1939, Serial No. 270,401
8 Claims. (Cl. 80—2)

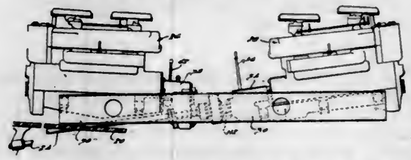
1. In apparatus of the character described, in

combination with welding means for a strip, take-up means for said strip, means controlling the operation of said take up means in accordance with the formation of slackness in said strip,



means to apply heat to said strip, and means whereby said controlling means is made to affect the production of heat by said last mentioned means.

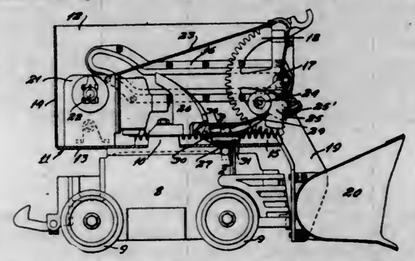
2,282,612
MARINE POWER TRANSMISSION SYSTEM
Arthur B. Schultz, Berkley, Mich., assignor to Kermath Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application September 25, 1941, Serial No. 412,264
15 Claims. (Cl. 115—0.5)



1. In a marine power transmission system, a frame adapted to be arranged in the hull of a boat, a pair of engines arranged in line and mounted on said frame one in front of the other, a two-way drive power transmission operatively connected to the forward engine, a unidirectional drive power transmission unit operatively connected to the rearward engine and including a hollow driven gear, means for removably securing said unit to the rearward engine, a propeller shaft arranged below the rearward engine and extending through said gear, said two-way drive transmission having a driving shaft arranged in line with said propeller shaft and a coupling assembly arranged between said transmissions and operatively connecting said propeller shaft with said gear and said driving shaft respectively, said coupling assembly being constructed and arranged so that portions thereof may be disconnected and separated to provide clearance space between said transmissions in order to permit removal of said unidirectional transmission unit without moving either of said engines.

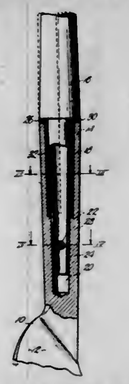
2,282,613
CENTRALIZING AND LOCKING MEANS FOR LOADERS
Barton R. Sheets, Denver, Colo., assignor to Gardner-Denver Company, Quincy, Ill., a corporation of Delaware
Application November 16, 1940, Serial No. 365,969
7 Claims. (Cl. 214—132)

1. In a loading machine, a carriage, a superstructure mounted for lateral swinging movement thereon, a shovel carried by the superstructure and movable over the top thereof, a plate pivoted to the super-structure, an element actuated upon movement of the plate to lock the super-structure against movement, and said plate being moved upon its pivot by the move-



ment of the shovel from one position to the other.

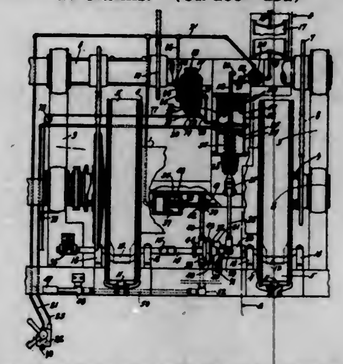
2,282,614
SHOCK ABSORBER GOLF CLUB
Kenneth Smith, Lenexa, Kans.
Application February 5, 1940, Serial No. 317,364
2 Claims. (Cl. 273—80)



1. In a golf club having a rigid metal, unitary head and hosel, provided with a socket extending inwardly from the outer end of the hosel, and a tapered bore, in communication with the socket, extending from the bottom of the socket in longitudinal alignment therewith; a flexible steel shaft having a tapered portion of reduced diameter at one end thereof extending through the socket and into said bore with its outer face in tight engagement with the inner face of the hosel within the bore and with the outer face of the portion thereof extending through the socket in spaced relation to the inner face of the hosel within the socket; a pin passing through the hosel and that part of the shaft extending into the bore thereof; the combination of an annular internal shoulder, having an outwardly facing surface, formed on and perpendicular to the inner face of the hosel at the zone of juncture between said socket and said bore; another annular shoulder formed on the shaft at the line of juncture between the tapered portion and the remaining part of the shaft, this said last mentioned shoulder having a surface in opposed relation to the annular internal shoulder on the hosel and in spaced parallel relation to the end of the hosel; a spacer ring of fibrous, yieldable material such as leather, interposed between the annular shoulder on the shaft and the end of the hosel; and a floating sleeve of fibrous, yieldable material, such as leather, formed to completely fill the space between the inner face of the hosel and the outer face of that part of the shaft in the socket, said sleeve having its inner

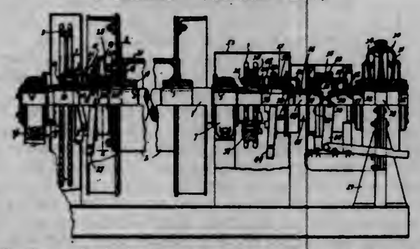
end abutting the shoulder formed on the inner face of the hosel, and the other end thereof abutting the spacer ring, said sleeve comprising a sheet of fibrous material having two parallel opposed edges for abutting said shoulders respectively, and two opposed angled edges progressively approaching each other as one of the parallel edges is approached from the other.

2,282,615
BRAKE FOR DRAW WORKS
John D. Spalding, Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application July 24, 1939, Serial No. 286,098
17 Claims. (Cl. 188—151)



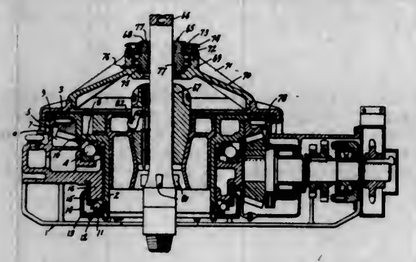
16. In a device for actuating a friction brake, the combination of spring means resiliently acting to apply the brake, pressure responsive means normally acting to oppose the spring means, a fluid pressure supply line for said pressure responsive means, and means automatically operable independently of the pressure responsive means adapted upon decrease in available supply line pressure to reduce the pressure in the pressure responsive means to a value below that in the supply line.

2,282,616
DRAW WORKS
John D. Spalding, Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Original application February 12, 1940, Serial No. 318,513, now Patent No. 2,235,088, dated March 18, 1941. Divided and this application September 17, 1940, Serial No. 357,137
9 Claims. (Cl. 254—187)



3. In a hoisting mechanism, the combination of a shaft, spaced bearings for supporting said shaft, a spooling drum secured upon said shaft intermediate said bearings, a hub element nonrotatably fixed on one end of said shaft, a driving member, a braking member, and clutch means for selectively connecting either of said members in direct driving relation with said hub element.

2,282,617
ROTARY MACHINE
John D. Spalding, Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Original application March 9, 1938, Serial No. 194,865, which is a division of application Serial No. 128,468, March 1, 1937. Divided and this application September 15, 1941, Serial No. 410,953
6 Claims. (Cl. 255—23)



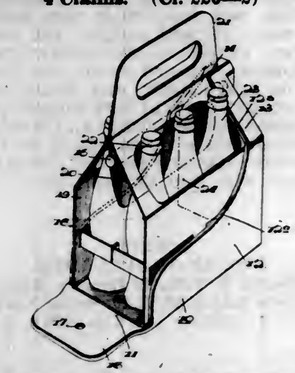
1. A rotary machine for rotating a drill stem, having a base, a table rotatably mounted on the base, said drill stem being provided with an abutment, in combination with a drill stem drive member having a non-rotative connection with the table, lock means to lock said member against upward movement relative to said table, and means adapted to cooperate with said lock means and the abutment provided on the drill stem to release said lock means incidental to the withdrawal of the drill stem from the table.

2,282,618
FISHING ROD
William H. Stewart, East Jaffrey, N. H.
Application April 5, 1941, Serial No. 387,091
2 Claims. (Cl. 43—18)



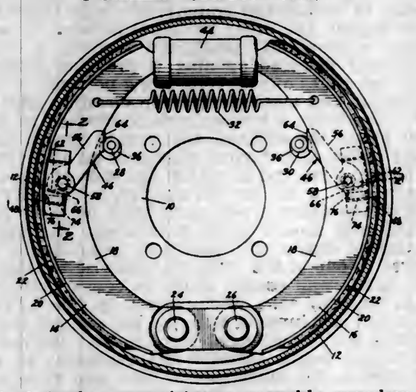
1. In a fishing rod having a grip portion at the rear thereof and a reel mounting on an extension at the rear portion thereof, the major length of the said rod having a bore defining tube extending axially therethrough, an angularly directed bore defining tube connecting with the inner end of the axial tube, the said angular tube extending rearwardly and outwardly of the rod from the axial tube at a very gradual inclination to the axis of the rod and making a wide angle with the axial tube, the said angular bore forming tube providing a longitudinally elongated feed opening at one side of the rod forward of the grip portion, an elongated guide ring of elliptical configuration of wear resisting material mounted on the side of the rod about the line feed opening, and a pair of longitudinally spaced lugs attached to the exterior of the rod releasably engaging the ends of the guide ring for holding the same in line guiding position.

2,282,619
CARTON PACKER
Charles P. Swan, Decatur, and Frederick W. Dickson, Atlanta, Ga., assignors to The Coca-Cola Company, Wilmington, Del., a corporation of Delaware
Application November 2, 1939, Serial No. 302,516
4 Claims. (Cl. 226—2)



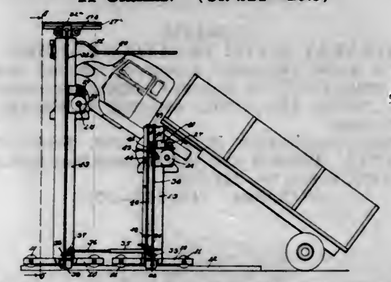
1. In a device of the character described, a holding member having a flat bottom portion, sloping sides adjacent to said bottom portion, inwardly extending roof segments connecting with said sides, a guide notch formed adjacent the inner ends of said roof segments, and a supporting bar disposed beneath said notch and extending in a plane parallel with said bottom portion.

2,282,620
BRAKE
Harvey C. Swift, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California
Application January 16, 1941, Serial No. 374,753
8 Claims. (Cl. 188—79.5)



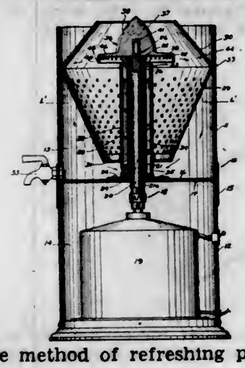
1. A brake comprising a movable member, a friction element for cooperation therewith, a stop for the friction element, a member carried by and movable transversely of the friction element having a side angularly disposed to the path of movement of the member, a support on the friction element for the member, and a lever pivoted on the friction element having a part engaging the angularly disposed side of the member and another part for cooperation with the stop, said support providing a bearing for the lever pivot.

2,282,621
VEHICLE DUMPING APPARATUS
Elmer B. Thompson, Des Moines, Iowa, assignor to Globe Hoist Company, Des Moines, Iowa, a corporation of Iowa
Substituted for abandoned application Serial No. 85,258, June 15, 1936. This application October 2, 1939, Serial No. 297,527
11 Claims. (Cl. 214—16.5)



1. In a device of the class described, the combination of a lift frame, grooved supporting wheels, one extended rearwardly and one forwardly from the frame, a T rail fixed in position and having said grooved wheels mounted thereon, a pair of gripping jaws carried by the frame and positioned one on each side of the rail, means for limiting the outward movement of the jaws relative to the rail so that at all times the jaws will extend under the head of the rail and limit the upward movement of the jaws relative to the rail, a manually operable cam carried by the frame for moving one of the jaws to gripping position on the rail, an electric motor driven mechanism carried by the frame for raising and lowering a vehicle, a manually operable switch device for the motor, said switch device having two spaced apart walls carried thereby, a flat rod connected to said cam and extended between said spaced apart walls on said switch device, said parts being so arranged and proportioned that when the flat rod is in position parallel with the sides of said flat rod the said switch device may be moved, and when said flat rod is at right angles to said walls, the switch device will be held in its inoperative position.

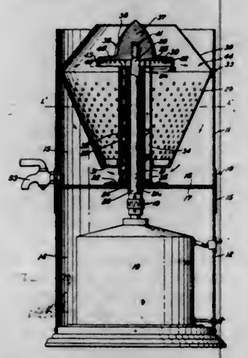
2,282,622
METHOD FOR TREATING JUICES
Homer Reid Torrence, deceased, late of South Laguna, Calif., by Robert C. Mize, administrator, Santa Ana, Calif., assignor to Gladys J. Torrence
Application May 1, 1939, Serial No. 271,113
6 Claims. (Cl. 99—155)



1. The method of refreshing packaged juices

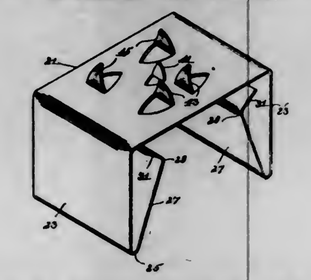
of the character described, that includes removing undesirable gases and vapors from throughout the body of the juice, aerating the juice, and increasing the surface tension of the juice to increase its air retaining capacity by thoroughly admixing therewith a fresh juice simultaneously with said removal of gases and vapors from the first mentioned juice and aeration thereof.

2,282,623
APPARATUS FOR TREATING LIQUIDS
Homer Reid Torrence, deceased, late of South Laguna, Calif., by Robert C. Mize, administrator, Santa Ana, Calif., assignor to Gladys J. Torrence
Original application May 1, 1939, Serial No. 271,113. Divided and this application October 2, 1939, Serial No. 297,476
10 Claims. (Cl. 259—97)



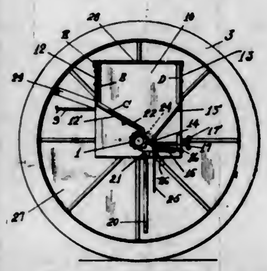
1. In apparatus of the character described, a vertically extending shaft, a circular rotor driven by said shaft, a fruit reamer on the top of said rotor, a liquid containing chamber below said rotor, means for driving said shaft and rotor at high velocity, and means forcibly projecting liquid from said chamber upwardly against the under surface of said rotor, the liquid thence being thrown centrifugally at high velocity from the rotor and aerated within an open space.

2,282,624
FASTENER FOR WALLBOARDS AND THE LIKE
Charles A. Upson and Ross Winship, Lockport, N. Y., assignors to The Upson Company, Lockport, N. Y., a corporation of New York
Application February 24, 1941, Serial No. 380,152
10 Claims. (Cl. 72—118)



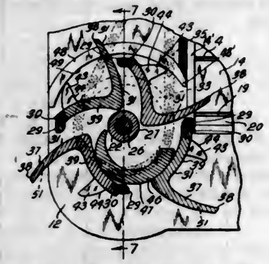
5. A blind fastener for connecting a panel of wallboard or the like to a support having front and rear surfaces accessible at each of two opposite edges of the support, said fastener including a front plate of metal resting against and extending across the front surface of said support to points beyond said opposite edges, a plurality of prongs extending forwardly from said front plate and adapted to have a panel impaled thereon and held thereby, and means extending rearwardly from said front plate past each of the opposite edges of said support and contacting with a rear surface of said support near each of said opposite edges to retain said front plate in place on said support, said means extending past one of said edges of said support including an arm extending rearwardly to a substantial distance behind said rear surface of said support and a portion extending forwardly from said arm into contact with said rear surface of said support.

2,282,625
CHEMICAL SPREADER
Charles E. Volk, El Dorado, Kans.
Application March 23, 1940, Serial No. 325,616
3 Claims. (Cl. 221—130)



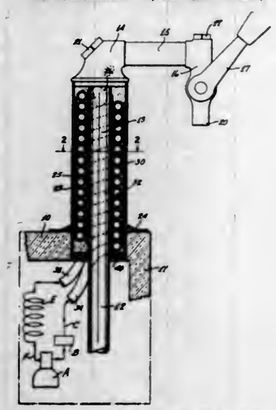
1. A hopper for a chemical spreader comprising side walls in parallelism longitudinally and a corresponding marginal portion of each wall being in parallelism transversely with respect to the hopper, the other marginal portions of each being convergently positioned whereby a longitudinally disposed opening is provided between the free edges of said converging portions, a rectangular end plate closing the terminal ends of the side walls, a toothed axle journalled in said end plates, the said axle engaging in the portions, said plates each having shoulders on their confronting sides and on which the ends of the said walls seat, a lid for the hopper, a plurality of partitions transversely positioned between said walls and spaced apart therealong, the corresponding ends of said partitions being rigidly secured to one of the walls and likewise secured to the other wall except along its convergent portion whereby said other portion is free to rock outward and inward, an angle bar secured to the flexing portion adjacent the free edge thereof as stiffening means therefor longitudinally, an ear secured to the inner side of each end plate and in spaced relation to the respective ends of the angle bar, a coil spring for each end plate connecting the ears and the respective ends of the bar as means to rock said flexing portion outward, and each of said ears being apertured and threaded a spaced distance from its spring engagement, and a threaded bolt engaging in the aperture, one end of said bolt having a wing structure at its outer end to turn the bolt while the other end engages on the bar to rock said flexing portion inward to a predetermined distance from the toothed axle.

2,282,626
LOADING MACHINE
Carl J. Watne, Nokomis, Ill., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application May 7, 1940, Serial No. 333,803
11 Claims. (Cl. 198—9)



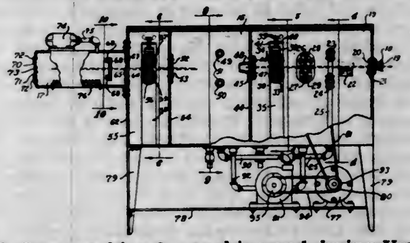
11. A material gathering mechanism for a loading conveyor comprising, in combination, a rotatable member, gathering arms each having one end pivotally connected to said rotatable member at a point spaced from the axis of rotation of the latter, each of said gathering arms having a gathering portion extending substantially radially from said rotatable member and a plurality of cam portions adjacent its pivoted end, and cam members relative to which said gathering arms move and which are successively engageable by said cam portions for effecting movement of the gathering portions of said arms substantially radially of said rotatable member into material gathering and discharging positions.

2,282,627
DRAFT ASSEMBLY FOR CHILLED BEVERAGES
Louis Weiss, St. Louis, Mo.
Application January 6, 1941, Serial No. 373,251
10 Claims. (Cl. 62—141)



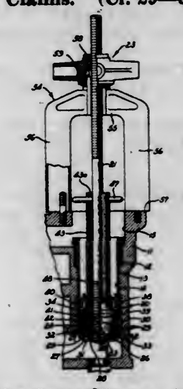
1. In a draft tap assembly, a draft tap, a draft tube leading to the tap, a casing about a portion of the draft tube near the tap, a refrigerant tube within the casing adjacent to the draft tube, and a filling material, of a permanently plastic nature and containing a major proportion of particles of a metal of high thermal conductivity, said material substantially filling the space within the casing between and around the draft and cooling tubes, and between said tubes and the wall of the casing.

2,282,628
VENETIAN BLIND SLAT WASHING MEANS
Russell D. Whann and Walter F. Maloney, Indianapolis, Ind., assignors to Trimpe Supply Company, Indianapolis, Ind., a partnership composed of Emmett H. Trimpe and Walter F. Maloney
Application February 3, 1941, Serial No. 377,094
7 Claims. (Cl. 91—13)



6. In a machine for washing and drying Venetian blind slats, means for initially wiping off the slat in a dry state; means for directing a spray of washing solution under pressure onto both faces of the slat at acute angles away from said wiping means; brush means for frictionally scrubbing the slat in the presence of said solution; pressure gripping rolls between which the slat is passed to pull the slat across said brush means, said rolls being of a resilient nature sufficient to exert a squeegee action simultaneously on both top and bottom faces of the slat; means for directing a spray of a second fluid onto both faces of the slat in a direction away from said rolls; means for rubbing both faces of the slat; means for further rubbing the slat; and means applying heat to the slat while exposed to said last rubbing means; said further rubbing means consisting of a plurality of members resiliently biased into the path of the slat and having slat contacting surfaces characterized by the qualities of chamois skin.

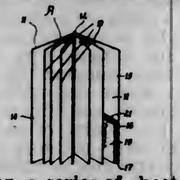
2,282,629
LINER PULLING DEVICE
Clarence White, Walnut Park, and Oliver B. Graham, Los Angeles, Calif., assignors to Oil Well Manufacturing Corporation, Los Angeles, Calif., a corporation of California
Application December 15, 1939, Serial No. 309,374
4 Claims. (Cl. 29—88.2)



1. In a device for pulling an insert sleeve from a bore, the combination of: a stem adapted to be extended inwardly of said bore; means associated with said stem for moving it longitudinally out-

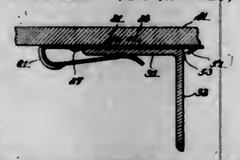
wardly of said bore; a plurality of annularly disposed segmental grip members each provided with a shoulder at one end for engagement with the inner end face of the insert sleeve, and each having a conical bore face directed inwardly of said bore, a portion of reduced diameter extending from the end face opposite said shoulder end, and an outwardly facing annular groove between said portion of reduced diameter and the remainder of said grip; a grip expander threaded upon said stem having a conical rim face mating with said conical bore faces; an adjusting nut threaded on said stem having an endwise engagement with said grip members for expanding said grip members on said mating conical faces; an integral web carried by said adjusting nut encompassing said reduced portion; an integral, inwardly extending, annular flange carried by said web, projecting into said groove and adapted to hold said adjusting nut and grips in assembled relationship longitudinally and radially when said nut and grips are in assembled position on said stem; and a stop limiting threaded movement of said grip expander away from said adjusting nut.

2,282,630
BOOK REFERENCE CALENDAR
Orion P. Winford, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a corporation of Minnesota
Application November 13, 1939, Serial No. 304,104
2 Claims. (Cl. 283—4)



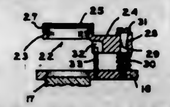
2. In a calendar, a series of sheets, a back and front cover, means connecting the sheets and covers along a line to fold as a book, the front cover having a small aperture, and the back cover and the sheets having a slot aligned with the aperture and transverse to the fold line, a foldable tab on said back cover, and a calendar pad on said foldable tab, said tab being on the rear surface of said tab in unfolded position.

2,282,631
FASTENER FOR WALLBOARDS AND THE LIKE
Ross Winship, Lockport, N. Y., assignor to The Upson Company, Lockport, N. Y., a corporation of New York
Application February 17, 1941, Serial No. 379,229
9 Claims. (Cl. 72—118)



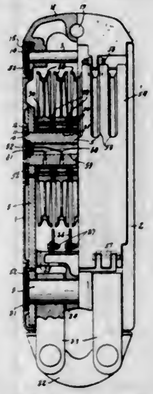
1. A fastener for wallboard and the like, including a metallic plate folded upon itself to provide a front portion and a rear portion, said plate being capable of being forced over an edge of a support with the support embraced between the front and rear portions of the plate, stop means on one of said portions of said plate for contact with the edge of said support to tend to keep the folded edge of said plate spaced laterally from the edge of said support, said stop means being relatively shallow so as to ride over said edge of said support on application of greater force, and a plurality of prongs extending forwardly from the front portion of said plate and constituting means on which wallboard or the like may be impaled to attach said wallboard or the like to said support.

2,282,632
SCALE MOUNTING
Carl H. O. Wittig, Irondequoit, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application July 30, 1941, Serial No. 404,634
6 Claims. (Cl. 88—34)



1. In a binocular, the combination of a body tube, an objective mounted on the body tube, transparent scale means movably carried by said body tube and positioned substantially in the focal plane of said objective, means carried by said body tube for supporting said scale means comprising a mounting slidably mounted to move in a plane substantially parallel to the optical axis of the objective, an adjustable stop for said mounting and yieldable means normally urging the mounting against said stop whereby said scale means may be adjusted relative to the objective.

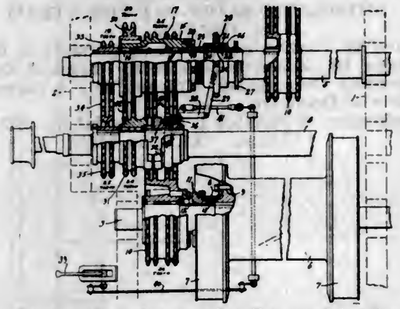
2,282,633
HOISTING BLOCK
Forrest J. Young, Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application February 7, 1940, Serial No. 317,702
14 Claims. (Cl. 254—192)



1. In a sheave mounting, the combination of a stationary shaft, means positioned at the ends of said shaft comprising the sole supports for said shaft, a plurality of sheaves positioned side by side on said shaft intermediate said supports, individual bearing means adapted to support each of said sheaves for rotation upon said shaft, each of said bearing means including a sleeve element having a slip fit on said shaft, a plurality of annular washers arranged on said shaft in alternate relation with said sheaves and adapted

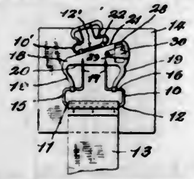
to receive axial thrust imparted by said sheaves, a continuous keyway in the shaft extending axially along a neutral axis thereof, keys positioned in said keyway adapted to prevent rotation of said annular washers and said sleeve elements, means associated with the shaft adapted to clamp said annular washers between said sleeve elements to prevent axial movement of said annular washers, and means associated with the supporting means and independent of said keys adapted to secure the shaft, sleeve elements and annular washers as a unit in either of two angularly spaced positions.

2,282,634
DRAW WORKS
Forrest J. Young, Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 3, 1941, Serial No. 381,503
7 Claims. (Cl. 74—217)



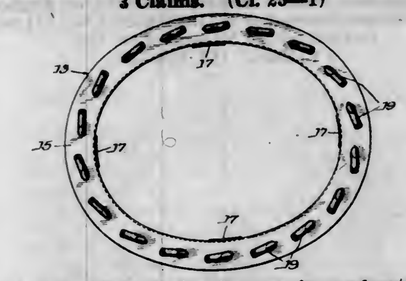
1. In a rotary drawworks, the combination of a unitary supporting structure, a drumshaft, a lineshaft and a jackshaft rotatably mounted on said supporting structure in parallel relation, a spooling drum on the drumshaft, means on the jackshaft whereby it may be driven, a sleeve member rotatably mounted on the jackshaft, chain and sprocket means forming a relatively high capacity driving connection between said sleeve member and the drum, chain and sprocket means forming relatively low capacity driving connections between the jackshaft and the lineshaft, and between the lineshaft and said sleeve member, releasable means to engage the sleeve member directly with the jackshaft to drive the drum through said high capacity driving connection at one speed, and clutch means associated with said relatively small capacity driving connections for selectively driving the drum through said high capacity driving connections at a slower speed.

2,282,635
SUSPENSORY BUCKLE
James Vincenzo Amendola, Kenosha, Wis.
Application January 22, 1941, Serial No. 375,506
3 Claims. (Cl. 24—73)



3. A buckle member comprising a penetrating tongue frame element bent to form a pivot bar and having outer point portions inset toward each other in parallel relation whereby to form laterally extending bars at respective sides, said tongue frame being formed of wire; a cross bail member stamped from sheet metal having respective arms formed for pivotal engagement around respective bars adjacent the bases of the points and including a flat cross bail member extended in a plane parallel with said bars whereby to present a transverse edge portion to receive the point portions thereagainst, said cross bail member having an inclined outer edge, a hinge knuckle formed thereon, a buckle pivoted on said knuckle and including a bail having a pressure bar inclined with respect to the inner side of said flat cross bail member, and said buckle having penetrating tongue elements thereon inclined with respect to the first named penetrating tongue elements and cooperable with the second named cross bail member as a pressure bar, for the purposes described.

2,282,636
RIM PUNCHING DEVICE
Alfred E. Bennett, Trenton, N. J., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application October 30, 1940, Serial No. 363,405
3 Claims. (Cl. 25—1)



1. A guiding device for use in perforating a closet bowl rim while in the course of manufacture, comprising a formed plate having a shape approximating the shape of the face of said closet bowl rim, said formed plate having therethrough a number of apertures of predetermined spacing, said apertures being equal in number to the perforations desired in the rim, said formed plate having attached thereto a number of hollow rod-like members in angular alignment with the said apertures therein and all said rod-like members at substantially the same angle both with respect to any horizontal plane and with respect to a line connecting the mid-points between the outer and inner peripheries of said plate, said formed plate having at its inner periphery a number of perpendicularly extending uni-directional ribs or guides so disposed with respect to one another as to fit into snug contact with the inside periphery of said closet bowl rim, whereby said guiding device is held immovably on said rim while a suitable perforating device is directed through each of said hollow rod-like members into said rim to produce the desired perforations.

2,282,637
OPHTHALMIC MOUNTING
Samuel E. Bouchard, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application January 17, 1941, Serial No. 374,879
2 Claims. (Cl. 88—41)

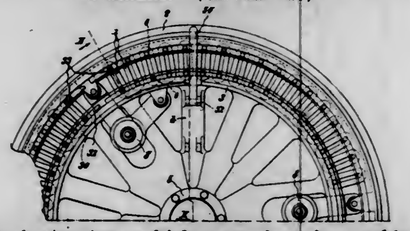
1. A device of the type described comprising a spectacle having a frame carrying lenses, an auxiliary frame carrying lenses, said auxiliary frame

being hingedly secured to the upper part of said spectacle frame, spring means normally urging the auxiliary frame away from the spectacle, and retaining means for selectively holding the auxiliary frame in operative relation in front of the spectacle, said retaining means comprising a



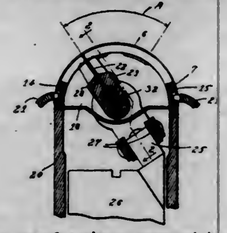
member pivotally mounted on the spectacle and having a hook portion for engaging the front of the auxiliary frame, spring means urging said hook portion toward said spectacle and a stop arm carried by said member and projecting between the spectacle and the auxiliary frame when the latter is in operative position.

2,282,638
ELASTIC WHEEL
Robert Boyer, Paris, Marcel Marin, Neuilly-sur-Seine, and Michel Gaestel, Arcueil, France, assignors to Société "Goodrich," S. A., Bois-Colombes, Seine, France, a society of France
Application November 17, 1938, Serial No. 241,069
In Luxemburg November 20, 1937
2 Claims. (Cl. 152—40)



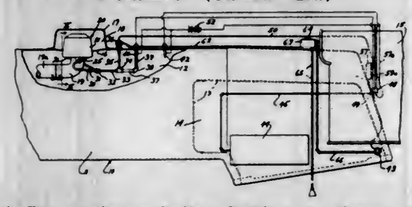
1. A structure which comprises, in combination, at least two circular elements of different respective diameters arranged in concentric relation with respect to each other, two series of transverse pins carried by said elements respectively, elastic members interposed under tension between one pin of a series and a corresponding pin of the other series, supports pivotally mounted on said circular elements about axes parallel to the common axis of said elements carrying in eccentric positions said pins, respectively, and means for adjusting the angular position of each of said supports with respect to the corresponding element.

2,282,639
SHAVING IMPLEMENT
John Bruecker, Chicago, Ill.
Application November 1, 1939, Serial No. 302,313
2 Claims. (Cl. 30—43)



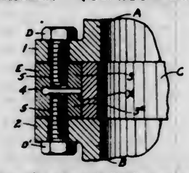
2. Shaving mechanism comprising a guard of thin sheet material adapted to have one of its surfaces pressed against the skin to be shaved, said guard being arcuately curved in at least one dimension and being formed with numerous small circular perforations for admitting hairs, and a cutter member for engaging the opposite surface of said guard, means for supporting and angularly moving said cutter member over said latter surface, said cutter member comprising a sheet metal strip having an edge of substantial thickness bearing against said latter surface and said strip extending in a plane substantially normal to the various portions of said latter surface as same come into contact therewith, the sides of said strip being both formed with a groove of substantially arcuate cross section along said edge, one side of each of said grooves terminating at said edge and forming a relatively sharp acute angle with the surface comprising said edge.

2,282,640
AUTOMATIC BLOW-OFF FOR STEAM DRIERS
Oland W. Carrick and Lewis O. Gunderson, Chicago, Ill., assignors to Electro-Chemical Engineering Corporation, Chicago, Ill., a corporation of Delaware
Application September 1, 1939, Serial No. 292,984
4 Claims. (Cl. 122—492)



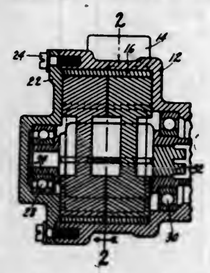
1. In a steam boiler having a steam drier mounted therein for separating water from steam generated by the boiler, the improvement which comprises a drain line in said boiler receiving separated water from the drier, a blow-off valve mounted outside of the boiler communicating with said drain line, and electrical means mounted in said drier for opening said blow-off valve to discharge the separated water whenever the water reaches a predetermined level in the drier, said electrical means and said valve being of such design and said electrode being so positioned that upon recession of the water level away from the electrode, the valve will close before steam reaches the valve.

2,282,641
FIRE HYDRANT, STREET LIGHT STANDARD, AND SIMILAR HIGHWAY ACCESSORIES
William W. Corey, St. Louis, Mo., assignor to Iowa Valve Company, Des Moines, Iowa, a corporation of Iowa
Application August 14, 1941, Serial No. 406,847
7 Claims. (Cl. 285—140)



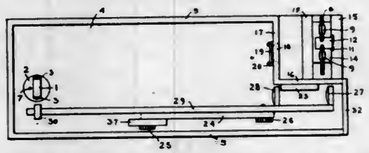
1. A fire hydrant, street light standard or similar highway accessory, comprising an upright member, a supporting member, a collar or annular-shaped part between said members, frangible means removably combined with said collar, and fastening devices in said upright member and supporting member detachably engaged with said frangible means and disposed so as to draw said members into tight engagement with said collar.

2,282,642
VANE STRUCTURE FOR ROTARY PUMPS
William H. Curtis, Dayton, Ohio, assignor to Curtis Pump Company, Dayton, Ohio, a corporation of Ohio
Application May 17, 1940, Serial No. 335,703
2 Claims. (Cl. 103—137)



1. A rotor and vane assembly for pumps comprising a rotor provided with intersecting slots therethrough, a symmetrical I-shaped vane with wide heads seated in one slot to provide balanced blades on opposite sides of the rotor connected by a single web, a pair of smaller symmetrical I-shaped vanes in the other slot with aligned heads providing balanced blade portions on opposite sides of the rotor between the first-mentioned blades, and each opposite blade portion being connected by a single web whereby one small vane can have the web thereof initially seated at an end of its slot, the wide-headed vane can be cocked into its slot around the web of the inserted vane to bring its web into abutment with the seated web, and the other smaller vane can be dropped into the remaining portion of its slot with the head thereof clearing the web of the wide vane.

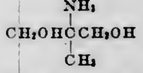
2,282,643
SPECTROMETER
Theodore A. Cutting, Campbell, Calif.
Application October 25, 1940, Serial No. 362,735
8 Claims. (Cl. 88—14)



8. A combination spectrometer and spectrograph having a casing, a slit at one end of said casing, a reflecting light dispersing means at the opposite end of said casing receiving light from said slit, an ocular to one side of said slit receiving the spectrum reflected from said dispersing means, means for moving said ocular to different portions of the spectrum, supporting means concentric with the path of movement of said ocular and between part of said ocular and said dispersing means for holding on one side a scale and upon the other a spectrographic film.

2,282,644
SUBRESINOUS ACYLATION REACTION COMPOUND
Melvin De Groote, University City, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington Del., a corporation of Delaware
No Drawing. Original application June 27, 1940, Serial No. 342,714. Divided and this application June 14, 1941, Serial No. 398,142
6 Claims. (Cl. 260—404)

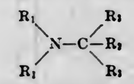
3. A sub-resinous acylation reaction compound, derived by reaction between, first, an acidic fractional ester; and second, 2-amino-2-methyl-1,3-propanediol,



said aforementioned acidic fractional ester being derived from a dibasic carboxy acid and a ricinoleic acid compound selected from the class consisting of monohydric alcohol esters of recinoleic acid; polyhydric alcohol esters of ricinoleic acid; ricinoleic acid; polyricinoleic acid; and lightly blown castor oil; said aforementioned acylation product having at least one dibasic acyl radical directly linked to the amine residue, as differentiated from the ricinoleyl radical.

2,282,645
SUBRESINOUS ACYLATION REACTION COMPOUND
Melvin De Groote, University City, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
No Drawing. Original application June 27, 1940, Serial No. 342,719. Divided and this application June 14, 1941, Serial No. 398,144
6 Claims. (Cl. 260—404)

1. A sub-resinous acylation reaction compound, derived by reaction between, first, a polybasic carboxy acid; and second, an amine of the formula:



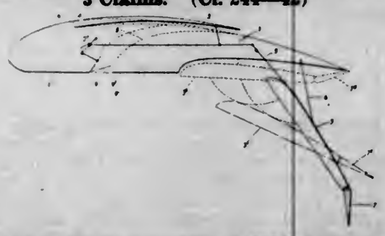
in which R_2 is selected from the class consisting of alkylol radicals and alkylol-ether radicals; R_3 is selected from the class consisting of hydrogen atoms, alkyl radicals, alkylol radicals and alkylol-ether radicals; and R_1 represents a member of the class consisting of alkylol radicals, alkylol-ether radicals and radicals derived by removal of an alpha-hydrogen atom from a monocarboxy acid ester, in which amine at least one reactive hydrogen atom has been replaced by a ricinoleyl radical.

2,282,646
RICINOLEIC ACID ESTER
Melvin De Groote, University City, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
No Drawing. Application June 14, 1941, Serial No. 398,145
3 Claims. (Cl. 260—404)

3. A method for the manufacture of the chemical compound contemplated in claim 1, consisting in subjecting tris(hydroxymethyl) aminomethane to oxalkylation by means of ethylene oxide;

said ethylene oxide being employed in the proportion of at least three and not more than 12 moles for each mole of the amine; said oxyalkylation being followed by esterification with ricinoleic acid.

2,282,647
AIRFOIL
Jeremiah Martin Dillon, Hampstead, London, England
Application January 13, 1940, Serial No. 313,787
In Great Britain January 9, 1939
3 Claims. (Cl. 244—42)



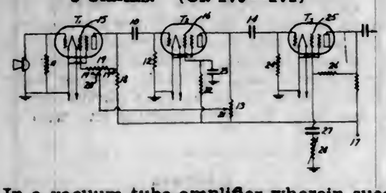
1. An aerofoil comprising a main body portion, an auxiliary section movably disposed on the underside of said body portion and extending towards the front of the aerofoil from a point adjacent to the trailing edge thereof, means for moving said auxiliary section into a position wherein it nests against the underside of said body portion and into a position in which it is rearwardly and downwardly disposed with respect to said body portion and forms an air passage extending therebetween, an upper section movably mounted with respect to said body portion and at least one passage extending through said body portion for the flow of air from the under surface of said aerofoil to the upper surface thereof, the inlet to said last-mentioned passage being controlled by movements of said auxiliary section and the outlet from said passage being controlled by movement of said upper section.

2,282,648
PORTABLE POWER-DRIVEN TOOL-OPERATING MACHINE
Edward M. Drefahl, Chicago, Ill.
Application May 23, 1940, Serial No. 336,728
3 Claims. (Cl. 29—76)



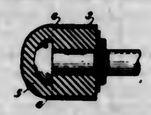
1. A portable file adapted for connection with a flexible power-driven shaft comprising an elongated relatively narrow base plate provided with an elongated slot therein, a pair of relatively narrow elongated transversely spaced strips secured to and extending longitudinally of the bottom face of said base plate, the lower portions of said strips extending below the bottom face of said base plate, narrow elongated file-carrier plate reciprocable below said base plate and having a pair of spaced elongated slots into which said pair of spaced strips extend for slidably guiding and retaining said file-carrier plate a spaced distance below the bottom face of said base plate, a reciprocable member connected to said file-carrier plate, reciprocable within said slot of said base plate, slidably supported upon the top face of said base plate and having a connection through which said member is reciprocable, a pair of upstanding spaced side walls on the rearward end of said base plate, a transverse shaft extending transversly of said base plate supported on said spaced side walls, an upstanding transverse wall on the forward end of said base plate, an intermediate upstanding transverse wall extending across the forward ends of said side walls, an upstanding transverse end closure wall detachably secured to the rear ends of said side walls, a drive shaft extending longitudinally of said base plate and rotatably supported on said intermediate and end closure walls, a worm on said drive shaft, a worm gear on said transverse shaft in mesh with said worm on said drive shaft, an eccentric on said transverse shaft formed integrally with said worm gear, a connecting rod disposed parallel to the longitudinal center-line of said base plate having one end pivotally connected to said reciprocable member connection and its opposite end operatively connected to said eccentric, said connecting rod extending through a slot in said intermediate transverse wall, an elongated housing of inverted U-shaped cross-section removably connected to and supported on said transverse walls and having its lower side marginal portions removably secured to the side edges of said base plate, a handle secured to the top of said housing near its forward end, and a flat file removably secured to the bottom face of said file-carrier plate, the width and length of said base plate, said file-carrier plate, and said flat file being substantially equal.

2,282,649
AUTOMATIC GAIN COMPENSATING MEANS
Frank J. Faltico, Minneapolis, Minn.
Application May 8, 1940, Serial No. 333,998
5 Claims. (Cl. 179—171)



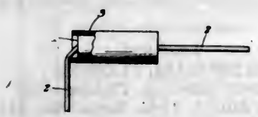
1. In a vacuum tube amplifier wherein successive amplifying stages are employed and wherein at least a first stage employs a screen grid tube, a resistance connected directly between the anode and the screen grid of said multi-grid tube, and means for feeding back a signal voltage from the output of a succeeding stage to said resistance for distribution thereby degeneratively and regeneratively to the said anode and screen grid respectively of the multi-grid tube.

2,282,650
ABRASIVE ARTICLE
John P. Fenton, Boston, Mass., assignor to American Sandpaper Company, a corporation of Massachusetts
Application May 1, 1941, Serial No. 391,303
3 Claims. (Cl. 51—185)



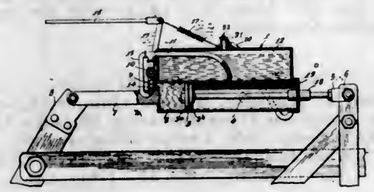
1. An abrasive article comprising a flexible abrasive material fashioned to form an end piece centrally disposed with arms projecting from and around said end piece and convexed to impart a general convexity to said abrasive article in the part thereof bounded by the convexity in said arms and to which said end piece forms an apex, an interior sleeve over which said arms are extended whereby the abrading working surface thereof will be increased, and to which sleeve said arms are adhesively secured whereby they are retained and reinforced by the sleeve, said sleeve providing a bearing against which an interior mandrel may be expanded for holding said abrasive article in place during its rotation.

2,282,651
INSULATED RESISTOR
Anthony Haberberger, St. Marys, Pa., assignor to Stackpole Carbon Company, St. Marys, Pa., a corporation of Pennsylvania
Application February 28, 1941, Serial No. 381,030
4 Claims. (Cl. 201—76)



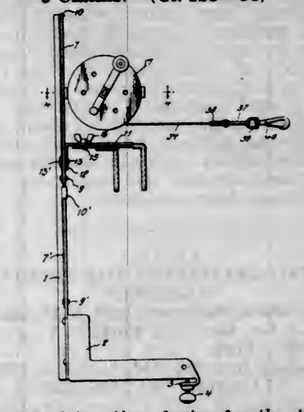
1. A resistor element comprising a body of resistance material, a flexible terminal projecting from an end thereof, the exposed portion of said terminal having substantially the same flexibility throughout its length whereby the terminal will bend at the body, and an insulating covering on said body projecting an appreciable distance beyond said end and outwardly along the terminal far enough to materially restrict the distance that the portion of said terminal adjacent the body can be bent away from the axis of the body.

2,282,652
HYDRAULIC DEVICE
Raymond A. Henning, Piru, Calif., assignor of seventy-five per cent to Charles S. Johnson, Piru, Calif.
Application July 18, 1941, Serial No. 402,978
5 Claims. (Cl. 188—94)



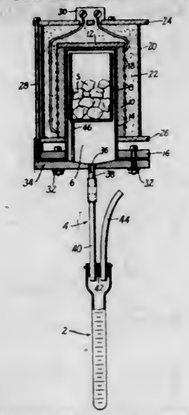
1. In a hydraulic device comprising a cylinder having a piston movable therein, a closed liquid reservoir and fluid connection means for movement of liquid between said reservoir and one end of said cylinder accompanied by movement of the piston in the cylinder, the construction including a conduit extending from the lower part of the other end of said cylinder to the upper portion of said reservoir, whereby movement of said piston toward said other end of said cylinder draws liquid out of said reservoir into said one end of said cylinder, thereby producing a suction in said conduit to draw any liquid collected in the said other end of the cylinder back into said reservoir.

2,282,653
SURGICAL TRACTION DEVICE
Maurice H. Herzmark, New York, N. Y.
Application August 13, 1940, Serial No. 352,354
5 Claims. (Cl. 128—84)



1. A surgical traction device for the treatment of fractures comprising a standard, clamping means thereon adapted to be fixed to a bed containing a patient and mounted to resist a horizontal force, a reel thereon, a spring in said reel, a strap having one end operatively connected to said spring and adapted to be extended out of said reel in a horizontal direction, said strap being unsupported in its entire length and having means at the free end thereof for attachment to the limb of a patient and exerting a substantial horizontal tension on said patient sufficient to overcome muscular contraction, said tension being independent of gravity and against the weight of said patient, said spring freely biasing said strap to maintain a substantially constant, predetermined, direct tension on said limb.

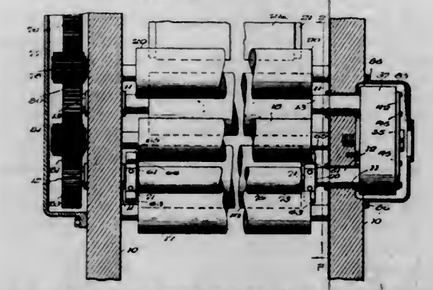
2,282,654
APPARATUS FOR DETERMINING FLUID CONTENTS OF SOLIDS
William L. Horner, Dallas, Tex., assignor to Core Laboratories, Inc., Dallas, Tex., a corporation of Delaware
Original application January 3, 1938, Serial No. 183,018. Divided and this application August 8, 1940, Serial No. 351,892
10 Claims. (Cl. 23—253)



2. In apparatus for determining the oil and

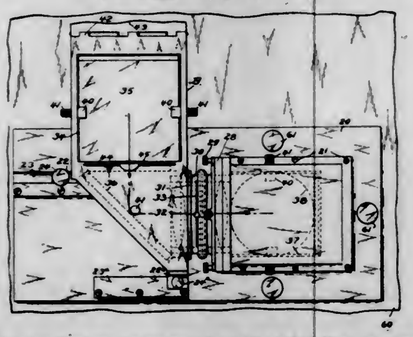
free water content of core samples through the collection of oil and water distilled therefrom, in combination, a distilling chamber so limited in size as substantially to discharge completely the vapors distilled from small core samples placed therein, said chamber being closed except for a discharge opening in the bottom thereof, means for opening said distilling chamber for the insertion of core samples and for reclosing and sealing said chamber, means for heating the contents of said chamber, a condensing tube extending downwardly from but not above said discharge opening, whereby substantially all vapors moving downwardly from said sample may enter said discharge opening, and means for receiving the condensate from said tube.

2,282,655
INKING MECHANISM FOR PRINTING MACHINES
William F. Huck, Richmond Hill, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York
Application June 28, 1941, Serial No. 400,308
17 Claims. (Cl. 101—348)



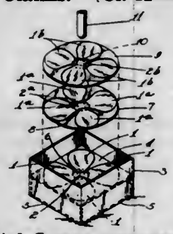
1. In an inking mechanism for a printing machine, a rotatable ink cylinder, an annularly ribbed roller connected to the cylinder to rotate therewith, and a rotatable ring having reversing helically disposed internal ribs arranged to engage the ribbed roller and be rotated thereby to reciprocate the ink cylinder.

2,282,656
IMAGE REVERSER FOR CAMERAS
William C. Huebner, New York, N. Y.
Application January 24, 1941, Serial No. 375,782
3 Claims. (Cl. 88—74)



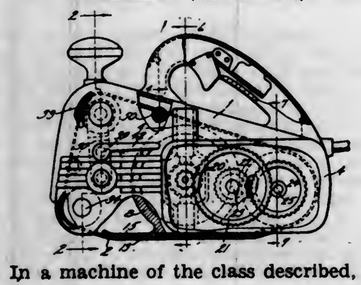
1. An image reverser for straight line cameras comprising, in combination: two separate housing units; an optical system consisting of a series of three reflecting mirrors disposed in said units, a single mirror in one unit and two mirrors in the other unit, said housing units having opposed and aligned apertures to engage opposite ends of a camera lens barrel; means for mounting said single mirror in its housing unit in a position closely facing the lens and intersecting the lens axis at about forty-five degrees; means for mounting the intermediate mirror of the series in the other housing unit in a position closely facing the lens and intersecting the lens axis at about forty-five degrees; means for mounting the third mirror of the series in said last named housing unit in a position offset from and facing the intermediate mirror at an angle of about forty-five degrees and in a plane parallel to the lens axis, said several mounting means and mirrors being also such that when the lens axis is positioned horizontally, the first named mirror of the series is in a vertical plane, the intermediate mirror at about forty-five degrees to the vertical and the last mirror of the series at about forty-five degrees to the vertical; and means for retaining said two housing units in position with the mirrors relatively disposed as set forth and with said first and intermediate mirrors adjacent the lens.

2,282,657
ARTIFICIAL FLOWER
Theodore Kirchen, Chicago, Ill.
Application July 5, 1940, Serial No. 343,931
2 Claims. (Cl. 41—13)



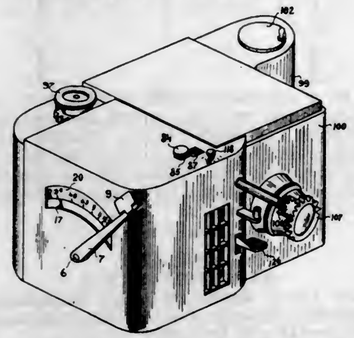
1. An artificial flower composed of a plurality of layers of crepe paper, each layer comprising a pair of petal areas connected by a relatively narrow integral portion with the creases of the paper extending longitudinally of the petals and of said narrow connecting portion, the said narrow portions being superimposed upon each other, with the petal portions arranged in staggered relation, the narrow portions being gathered into the form of a calix with the petals spreading therefrom.

2,282,658
SANDING BELT MACHINE
Richard F. Kneisley, Toledo, Ohio, assignor to The American Floor Surfacing Machine Company, Toledo, Ohio, a corporation of Ohio
Application January 27, 1941, Serial No. 376,012
7 Claims. (Cl. 51—170)



2. In a machine of the class described, a one-piece housing having its top, one side and ends closed, an electric motor disposed substantially centrally within the housing with its armature shaft transverse thereto, said motor having a cylindrical field frame formed integral with and projecting into the housing from the closed side thereof, a shaft bearing plate secured to the outer end of said field frame, the armature shaft of the motor being journaled at one end in the closed side of the housng and at its other end in said bearing plate, a sanding belt extending around said field frame and having an exposed run under said frame, a drive and guiding drum for said belt in one end of the housing, vertically spaced belt guiding and tension rolls in opposite ends of the housing, means disposed within the closed side of said housing for driving said drum from said motor, and removable means for closing the open side of said housing.

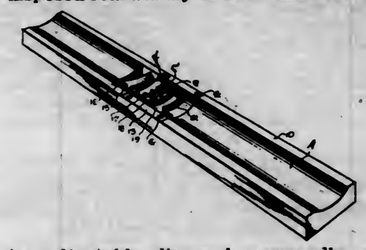
2,282,659
AUTOMATIC EXPOSURE CAMERA
Eugene R. Kun, La Crosse, Wis.
Application October 3, 1940, Serial No. 359,494
12 Claims. (Cl. 95—10)



1. In a camera having a mechanical adjustment of the iris opening controlled by a swinging pointer of an electric instrument that is actuated by the current set up by a photo electric cell according to the intensity of existing light to a position determined by the light intensity, variable abutment means movable against the pointer whereby the ultimate position of the abutment means is determined by the position of the pointer, means controlled by the abutment means for adjusting the iris opening in accordance with the position of the abutment means, said camera including a variable shutter speed selector, means controlled by the selector for disabling the iris opening adjusting means in a predetermined selector position, and shutter tripping means operable even when the abutment controlled iris adjusting means is disabled.

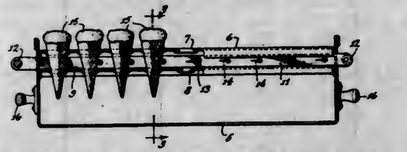
2,282,660
CORN SLICER, SHREDDER, AND SCRAPER
James B. Lee, Dallas, Tex.
Application December 9, 1940, Serial No. 369,268
3 Claims. (Cl. 146—4)

1. A device for slicing, shredding and scraping corn from a cob including an elongated body having a concaved surface along its major axis and provided with an opening intermediate its sides and ends, a slicing blade arranged adjacent to said opening, curved along its major and minor axes and having an oblique cutting edge, means for adjusting said blade relative to the concaved surface of said body, a shredder removably disposed rearwardly of said blade and means



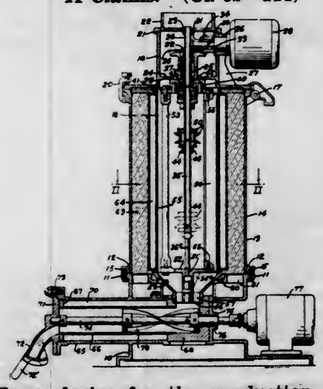
likewise adjustably disposed rearwardly of said shredder for scraping the remaining corn from said cob as the same is passed thereover.

2,282,661
DEVICE FOR HANDLING AND DIPPING CONFECTIONS
James A. Lewis, San Diego, Calif., assignor to Arden Farms Co., San Diego, Calif., a corporation of Maryland
Application February 3, 1940, Serial No. 317,215
6 Claims. (Cl. 91—6)



1. In an ice cream cone dipping device, the combination of a rack provided with openings shaped to receive and hold the shanks of cake cones filled with ice cream, a frame connected with and constructed to slide upon said rack, pins mounted upon said frame and positioned to penetrate the wall of the shanks of said cones while same are up-ended for the purpose of dipping without dislodgement, the exposed contents thereof.

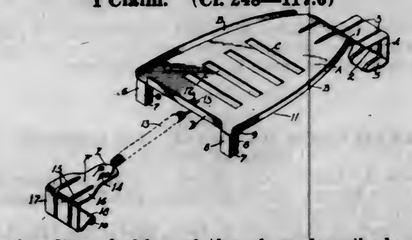
2,282,662
PROCESS AND APPARATUS FOR THE PREPARATION OF FROZEN CONFECTIONS
Ernest E. Lindsey, Los Angeles, Calif., assignor to Insta-Freeze Corporation, a corporation of California
Application February 9, 1938, Serial No. 189,667
11 Claims. (Cl. 62—114)



1. In a device for the production of frozen confections, in combination, means for continu-

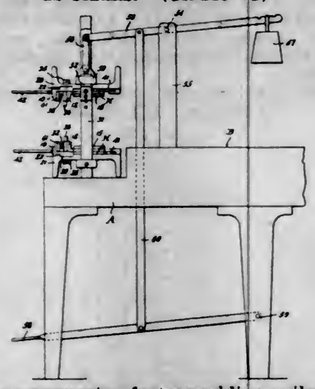
ously supplying the material to be frozen to a refrigerated chamber, a walled refrigerated chamber, means for spraying said material in finely divided form against said wall for an instantaneous freezing, in successive layers and means for continuously removing said frozen material from said wall, said spraying and removing being continuous and simultaneous.

2,282,663
SADIRON REST
Hubert S. Majerus, Minneapolis, Minn.
Application April 25, 1940, Serial No. 331,552
1 Claim. (Cl. 248—117.6)



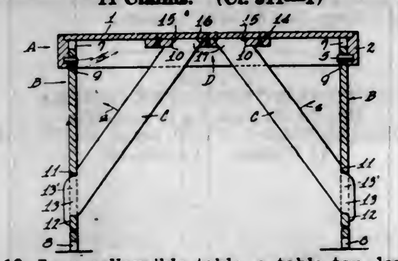
A sadiron holder of the class described comprising a single piece, including an iron supporting frame with the one end of said frame downwardly bent at its corners to form legs to rest upon an ironing board, the opposite end of said frame being bent downwardly to contact with the ironing board and hold the frame equally spaced from the ironing board between said legs and said down-turned part, a clamp portion forming the end of said down-turned part and constructed to embrace the edge of an ironing board, and a spring connected to said clamp intermediate said legs and terminating in a clamp embracing the adjacent edge of the ironing board.

2,282,664
APPARATUS FOR ASSEMBLING COILED SPRING UNITS
Samuel S. Marcus, Lewisboro, and Samuel Krakauer, New York, N. Y.
Application July 30, 1940, Serial No. 348,476
12 Claims. (Cl. 140—3)



1. In an apparatus for assembling coiled spring units by means of helical tie wires which embrace the overlapped end convolutions of adjacent spring units, upper and lower spring positioning and tie wire guiding members each including relatively movable clamping jaws for receiving and retaining in predetermined position therebetween the upper and lower end convolutions of adjacent spring units, and means on the confronting face of one clamping jaw of each member for spacing the end convolution of one spring unit from the face thereof to provide a clearance for the tie wire, and the confronting face of the opposite jaw of each member having a series of spaced parallel inclined grooves corresponding to the pitch of the helical tie wires for guiding said tie wires into embracing relation with the overlapped upper and lower end convolutions of said adjacent spring units.

2,282,665
COLLAPSIBLE TABLE
Clifford H. McCaslin, Oakland, Calif.
Application March 9, 1940, Serial No. 323,152
11 Claims. (Cl. 311—1)



10. In a collapsible table, a table top, leg-positioning members, legs, struts secured thereto and having shoulders bearing against both leg surfaces, and wedge means connected to the free ends of the struts for connecting them to the top and for bowing the legs for causing them to contact with the members.

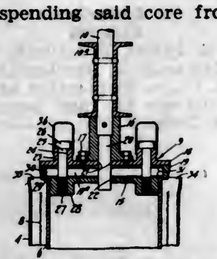
2,282,666
SAUSAGE LINKING
William James McCue, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application January 30, 1939, Serial No. 253,686
4 Claims. (Cl. 17—45)



4. The method of treating sausage which comprises forming a stuffed sausage casing into a continuous chain of links, arranging the links into a plurality of pairs in which the individual links of each pair are in longitudinal end to end relationship and the pairs are substantially parallel and thereafter passing a smoking support alternately beneath and above the portion of the casing joining the two links of each pair of links whereby alternate pairs of the links are supported astride the suppport and the chain of links is suspended from the support in the form of a continuous diamond-shaped coil.

2,282,667
CONCRETE PIPE MAKING MACHINE
Milton R. McGuire, Hartford, Conn.
Application August 12, 1940, Serial No. 352,231
20 Claims. (Cl. 25—37)

1. In a concrete pipe making machine, a core, a bell core, and operative connections therebetween for suspending said core from said bell



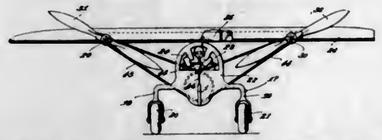
core while connecting the latter for reciprocation into and out of operative position.

2,282,668
KNITTING MACHINE
Max C. Miller, Cumberland, R. I.
Original application February 28, 1936, Serial No. 66,207. Divided and this application December 17, 1940, Serial No. 370,496
6 Claims. (Cl. 66—96)



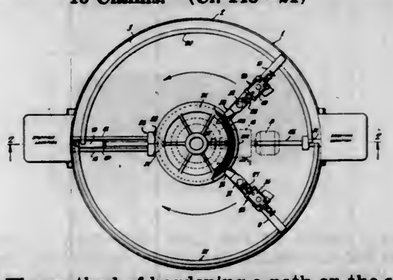
1. For use in a full-fashioned knitting machine having needles, a pointed loop lifting implement having a shank portion and a needle receiving groove in the shank, and a yarn engaging notch formed in the grooved side of the shank.

2,282,669
GLIDER
Stephen Miller, New York, N. Y.
Application August 16, 1940, Serial No. 352,964
1 Claim. (Cl. 244—64)



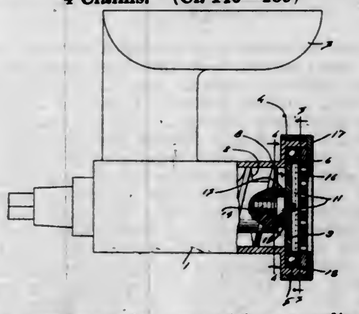
A glider including a fuselage, sustaining wing and tail assembly, a main frame disposed in an upright position at the front of the glider and having its lower portion solid and its upper end connected with the sustaining wing and formed with a substantially semi-circular opening, radiating shoulder braces projecting inwardly from the upper wall of said opening, a control device mounted on the fuselage in front of the main frame, an auxiliary frame secured to and spaced rearwardly from the main frame and having its upper end provided with a downwardly and rearwardly inclined extension, a supporting plate secured to said extension and having its forward end projecting through the opening in the main frame to form an inclined rest for supporting the body of the pilot, forward wheels mounted on the main frame, rear wheels forming a part of the tail assembly, a propulsion shaft operatively connected with the rear wheels, propellers mounted on the wing, means for transmitting motion from the propulsion shaft to said propellers, and foot pedals operatively connected with the propulsion shaft, the space between the main frame and forward end of the fuselage being unobstructed thereby to permit the shoulders of the pilot to project through said opening and contact with the radial shoulder braces and the body of the pilot to assume an inclined position for operating the control device and said foot pedals.

2,282,670
FLAME HARDENING PROCESS AND APPARATUS
Robert Baxter Mitchell, Milwaukee, Wis., assignor to Harnischfeger Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application September 15, 1941, Serial No. 410,919
18 Claims. (Cl. 148—21)



1. The method of hardening a path on the surface of an object formed of a quench-hardenable material, which consists in applying a pair of heat sources in side-by-side relation to a medial part of the path to be treated and then moving said sources away from one another along said path at such rates as to raise the temperature of surface layers in said path to hardening temperature, then while said movement of said heat sources is taking place and when the same have separated a predetermined distance impinging quenching fluid from a pair of separable quenching fluid sources upon the initially heated portion of said path to quench the same, dividing said quenching fluid sources while continuing the supply of fluid therethrough by causing the same to move away from one another, one each to follow one of said heat sources at a predetermined spacing behind the same, continuing said movements until all portions of said path have been raised to hardening temperature, and then removing said heat sources and continuing the movement of said quenching fluid sources until all heated portions have been quenched.

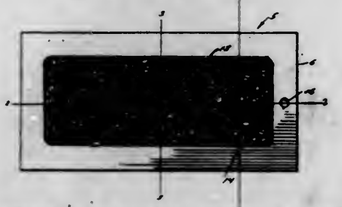
2,282,671
MEAT GRINDER
Lewis B. Motte, Savannah, Ga.
Application December 9, 1940, Serial No. 369,312
4 Claims. (Cl. 146—189)



1. A meat grinder comprising a cylinder, a worm operable in said cylinder, a ring rotatably

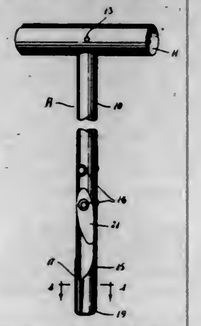
mounted in the cylinder forwardly of the worm, a holder mounted in said ring, means for supporting the forward end of the worm on the holder and for driving said holder from said worm, a perforated disk mounted in the cylinder forwardly of the holder, and shearing blades mounted in the holder and cooperable with the perforated disk.

2,282,672
SANITARY DOOR MAT
Vern Nelson, Bellingham, Wash.
Application May 14, 1941, Serial No. 393,462
1 Claim. (Cl. 15—215)



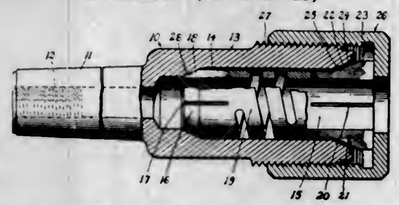
In a device of the class described, a shallow tank for containing germicidal liquid and having an inturned narrow marginal flange extending around the top thereof and defining an opening in the top of the tank, and a mat of fibrous absorbent material fitted in said opening and resting flat on the bottom of the tank, said mat being thicker than the depth of said tank to project upwardly out of said opening.

2,282,673
GARDEN TOOL
Emil T. Peterson, St. Paul, Minn.
Application August 29, 1940, Serial No. 354,685
1 Claim. (Cl. 294—50.7)



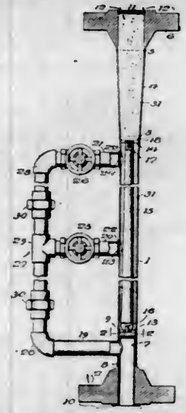
A weed extractor comprising a handle, an inclined end thereon, a cutting head comprising a tapered tubular element, and a trough-shaped projecting portion thereon, a pair of attaching means extending through said projecting portion and through said handle securing said projecting portion to said handle so that said inclined end will guide weeds out of said channel, one of said securing means extending through said inclined end and projecting from the surface thereof, and a cutting edge on the smallest diameter end of said tubular member, said tubular member having a V-shaped longitudinally extending slot extending throughout the length of said tubular member, said slot being closed at the cutting edge and increasing in width throughout its length.

2,282,674
CHUCK
Reginald J. S. Pigott, Pittsburgh, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application October 24, 1940, Serial No. 362,650
5 Claims. (Cl. 279—46)



1. In a collet chuck, a body member having an axial bore, a conical seat within the member and open to said bore and a conical seat adjacent an end of the member, a unitary work-holding member in the bore having end jaw portions tapered to fit said seats and an intermediate helical coil spring portion, and means for compressing said work-holding member against said seats.

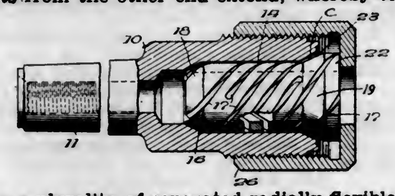
2,282,675
CONTROLLER FOR FLOWING GASES
Reginald J. S. Pigott, Pittsburgh, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application November 5, 1940, Serial No. 364,469
9 Claims. (Cl. 138—46)



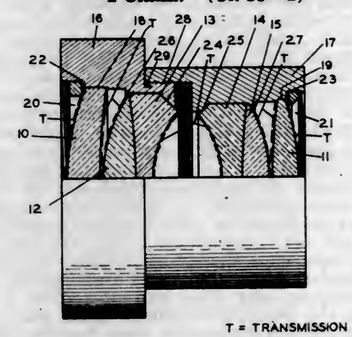
1. Apparatus for reducing the pressure of high pressure gas which comprises an elongated gas permeable porous medium and means for directing a flow of gas through said medium, the total cross-sectional effective pore area of the medium increasing in the direction of flow of the gas at a rate such as to maintain the velocity of flow of the gas therethrough substantially constant and at a low value.

2,282,676
CHUCK
Reginald J. S. Pigott, Pittsburgh, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application October 6, 1941, Serial No. 413,870
2 Claims. (Cl. 279—51)

1. In a chuck a collet of tubular shape conically tapered at each end and provided with a plurality of helical slots through the walls thereof extending from each end of the collet to a point substantially past the point to which the helical slots from the other end extend, whereby to define a plurality of separated radially flexible jaw portions at each end of the collet and an intermediate portion, of relatively high axial flexibility, in the zone where the slots from one end inter-leave with those from the other end.



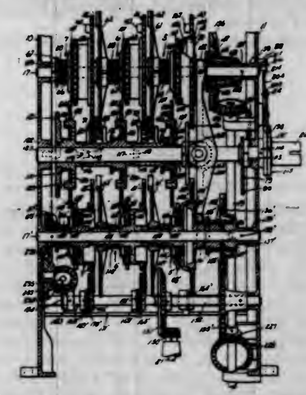
2,282,677
OPTICAL SYSTEM
Wilbur B. Rayton, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application May 4, 1940, Serial No. 333,381
1 Claim. (Cl. 88—1)



T = TRANSMISSION FILM

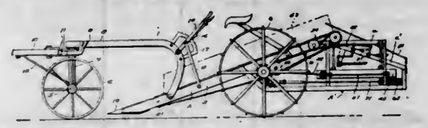
A lens system comprising a tubular open ended mount for holding a plurality of lens components in spaced apart relation, an outer lens component located at each end of said mount, each outer lens component being formed of refractive material of the character having high refractive index oxides in its composition and being provided with polished air-contacting surfaces from each of which surfaces high refractive index oxides have been removed by chemical treatment to leave a transparent film thereon, a compound lens component located between the outer lens components, said compound lens component comprising a plurality of elements each formed of refractive material and each having two aligned and polished optical surfaces, said elements being adjacently positioned to have a polished surface of each element in contact with a polished surface of the adjacent element whereby the polished surfaces which provide the respective ends of said compound lens component are in contact with the air, the air-contacting surfaces of said compound lens component being each provided with a physical deposit of transparent material in the form of a film which has been deposited only on the air-contacting surfaces so as to leave the adjacent contacting surfaces of each element of said compound lens component unfilmed but cemented to each other, each of said films having an optical thickness substantially equal to one-fourth the wavelength of light for a particular wavelength in the spectral range to be transmitted through the lens system and an index of refraction less than that of the air-contacting surface with which it is associated.

2,282,678
REGISTERING MECHANISM
Edward A. Slye, East Hartford, Conn., assignor to Veeder-Root Incorporated, Hartford, Conn., a corporation of Connecticut
Application April 1, 1939, Serial No. 265,498
21 Claims. (Cl. 235—144)



1. In combination, a plurality of rotary order elements, numeral wheels respectively associated therewith, a reset operating shaft, a reset driving train between said reset shaft and each of said elements and including a driving gear associated with said shaft and a driven gear carried by the element, a slip clutch associated with one of the gears of each train, means associated with said shaft for moving said driving reset gears into and out of meshing relation with said driven reset gears and means for stopping said order elements in zero positions.

2,282,679
APPARATUS FOR REMOVING GRASS, WEEDS, AND OTHER MATTER FROM THE GROUND
Charles Joseph Smith, Albany, N. Y.
Application November 19, 1940, Serial No. 366,312
2 Claims. (Cl. 97—10)



1. An apparatus of the class described comprising a wheel supported frame including an elongated longitudinally arranged conveyor carrying part sloping downwardly and forwardly, a blade at the lower end of said part for penetrating the soil and lifting the soil, conveyor means carried by said part for conveying the soil from the blade upwardly and rearwardly, means for raising and lowering the conveyor carrying part for lifting the blade from the ground and for regulating the depth of penetration of the blade in the ground, a plurality of sets of shaker fingers at the rear of the frame for receiving the material dropping from the rear end of the conveyor, means for rocking said fingers, a perforated belt below the fingers for

receiving material therefrom, means for swinging the belt supporting means laterally, a laterally extending conveyor having a part extending beyond one side edge of the apparatus and said lateral conveying means receiving material from the perforated belt and some of the fingers and means actuating the moving parts.

2,282,680
GUN CAMERA
Frederick T. Sonne, Golf, Ill., assignor to Chicago Aerial Survey Company, Chicago, Ill., a corporation of Illinois
Application July 15, 1940, Serial No. 345,463
7 Claims. (Cl. 95—12)



1. In combination, a gun and a camera fixedly interconnected exteriorly of the gun with the barrel of the gun in parallelism with the lens system of the camera, a light-sensitized medium within the camera, a shutter adapted, when opened, to expose the medium for the recording of a latent photograph thereon, and mechanism for operating the shutter in connection therewith comprising two interacting units movably mounted within the camera and movable relative to each other, one of the units being in operative connection with the shutter and the other being a weight free to move in a fixed path lengthwise of the gun barrel and adapted to set the first named unit in motion in response to recoil consequent upon discharge of the gun.

2,282,681
NASAL FILTER
Charles K. Stotz, Farmington, Conn., assignor to The Cha-Gobé Company, a corporation of Connecticut
Application August 14, 1939, Serial No. 290,064
3 Claims. (Cl. 128—148)



1. A device of the character described comprising a frame having a U-shaped portion, and a shield portion substantially in the shape of a figure 8 extending from each side of said bridge portion for supporting a filter member.

2,282,682
ELECTROCHEMICAL HALOHYDRINATION
Miroslav Tamele, Oakland, and Lloyd B. Ryland, El Cerrito, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application June 21, 1940, Serial No. 341,710
10 Claims. (Cl. 204—81)

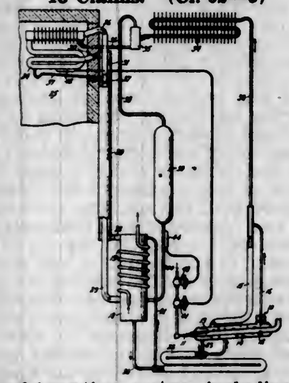
1. A process for the production of glycerol chlorhydrins which comprises forming an aqueous solution of hydrogen chloride and allyl alcohol in a simple cell provided with an anode and a cathode, maintaining the hydrogen chloride concentration between about 1 and 3 normal and the allyl alcohol concentration between about 0.01% and about 0.05% by weight, subjecting said solution to the action of a direct electric current of a density equal to between about 5 and 10 amperes per square decimeter of anodic surface, and maintaining the allyl alcohol and hydrogen chloride concentrations by addition of fresh quantities thereof as the same are utilized.

10. In a process for the production of halogenated organic hydroxy compounds, the step of subjecting a mixture of an unsaturated alcohol and of an aqueous hydrogen halide solution to the action of an electric current, the unsaturated alcohol being present in the aqueous mixture in a concentration between about 0.01% and about 10% by weight.

2,282,683
ELECTROCHEMICAL PREPARATION OF HALOGENATED ORGANIC HYDROXY COMPOUNDS
Miroslav Tamele, Oakland, Lloyd B. Ryland, El Cerrito, and Vanan C. Irvine, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application June 24, 1940, Serial No. 342,126
19 Claims. (Cl. 204—81)

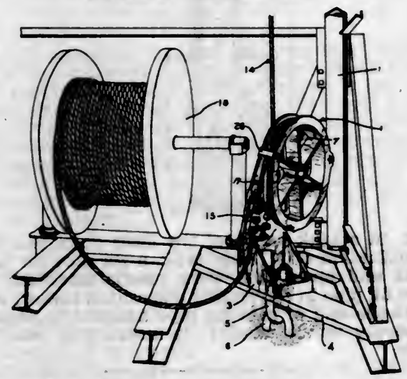
1. A process for the production of glycerine which comprises forming an aqueous solution containing sodium bromide in a molar concentration of about 2 and allyl alcohol in a quantity between about 0.01% and about 0.05% by weight of the solution, disposing said solution in an electric cell provided with anode and cathode electrodes and with a diaphragm dividing said cell into an anode-containing zone and a cathode-containing zone, subjecting said solution in said cell to the action of a direct electric current of a current density of between about 2 and 25 amperes per square decimeter of anodic surface employed, maintaining the aforementioned sodium bromide and allyl concentrations by introducing additional quantities thereof as the same are utilized in the formation of glycerol bromhydrins in the anode-containing zone and of sodium hydroxide in the cathode-containing zone, and reacting the sodium hydroxide thus formed with the glycerol bromhydrins, thereby forming glycerine.

2,282,684
REFRIGERATION
Robert S. Taylor, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application April 28, 1937, Serial No. 139,392
18 Claims. (Cl. 62—5)



1. A refrigeration system including an evaporator, a condenser, a generator connected to supply vapor to said condenser, a heater for said generator, and means for controlling the heating rate of said heater in accordance with variation in capacity of said condenser.

2,282,685
CABLE ANCHOR
Edward Timbs, Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 5, 1940, Serial No. 322,333
3 Claims. (Cl. 24—135)



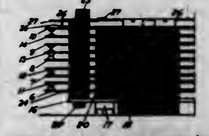
2. In a device having a drum for anchoring a line, the combination of marginal flanges on said drum, a plurality of retainer elements positioned in spaced relation around the periphery of the drum and extending transversely between said marginal flanges, each of said retainer elements being pivotally connected to one of said flanges and provided with latch means to form a releasable connection with the other of said flanges.

2,282,686
ANTIOXIDANT
Paul R. Van Ess, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application August 26, 1940, Serial No. 354,251
6 Claims. (Cl. 252—46)

1. A lubricating oil containing dissolved a small amount of a thioxin selected from the class consisting of dibenzothioxin, alpha-alpha'-dibenzophenothioxin, alpha-benzophenothioxin and the substituted homologues thereof containing attached to aromatic nuclei ortho- and para-directing substitution radicals.

2,282,687
SET OF CONTACT SPRINGS FOR ELECTRICAL SWITCHING APPARATUS
Sten Daniel Vigren and Rolf Albin Svensson, Stockholm, Sweden, assignors to Western Electric Company, Incorporated, a corporation of New York
Application July 19, 1938, Serial No. 219,944
In Great Britain June 13, 1938
2 Claims. (Cl. 200—1)

1. In a circuit controlling device, a plurality of normally stationary contact springs, a plurality of movable contact springs, all of said springs being insulatedly supported at one end with their contact ends pretensioned in the same direction and arranged in make and break contact combinations, an actuating member of insulating material, a stationary support of insulating material, said actuating member and said support each having notches of equal width and equal spacing and equal in number to the total number of springs whereby the stationary and movable springs may be interchanged with respect to the notches of either said actuating member or said support, each notch of said actuating member and support being wider than the thickness of the associated spring to permit freedom of movement of the associated spring within said notch, a lower adjustable spring for guiding and supporting the lower end of said



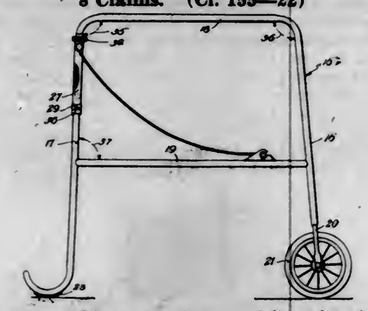
actuating member, an upper spring for guiding the upper end of said actuating member having an aperture therein through which said actuating member may be inserted and moved to engage the movable contact springs in its notches, a locking device having a tongue insertable in the aperture of said upper guide spring and having an aperture tightly embracing the upper end of said actuating member, and ears on the end of said upper guide spring embracing the outer end of said locking device, whereby said locking device and said lower guide spring hold said actuating member in its assembled position with respect to said movable springs.

2,282,688
HEADREST
Paul E. Zuck and Paul L. Evans, Stillwater, Okla.; said Evans assignor to said Zuck
Original application September 10, 1938, Serial No. 229,372. Divided and this application March 1, 1940, Serial No. 321,776
1 Claim. (Cl. 155—176)



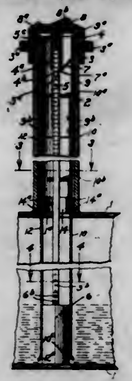
A head rest for chairs comprising a member having side members, end members connecting the extremities of the side members, means carried by one of the end members for supporting a paper roll, the second end member being substantially in the form of a reversed "C" in cross section, the ends of said second member being closed, said second member having a slot in its upper portion and extending lengthwise thereof and through which the paper sheet is to be threaded, a shaft within the second end member and supported by the closed ends thereof for rocking movement, a pawl depending from said shaft for clamping the portion of the sheet inserted through the slot against the middle portion of the second end member, means for rocking the shaft to release the paper, and means for constantly rotating the shaft in a direction to maintain the pawl in clamping position the lower marginal portion of the second end member extending inwardly of the adjacent extremities of the side members and spaced therefrom, the said lower marginal portion of the second end member being formed to provide a cutting edge.

2,282,689
MOVABLE SUPPORT
Butler Ames, Boston, Mass.
Application May 1, 1940, Serial No. 332,655
8 Claims. (Cl. 155—22)



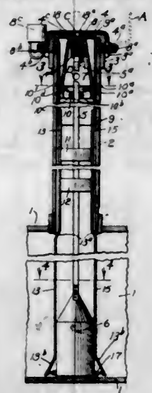
8. A movable support comprising side frames, each frame including a front leg, back leg, an upper bar connecting the tops of said legs and a brace bar connecting the legs below and parallel to the upper bar, and a unit connecting said frames, said unit including a sleeve at each end thereof which sleeves surround the back legs of the frames and rotate thereon to permit the rotation of the frames relative to the unit to collapse the support with the unit between the side frames, and a crossbar joining said sleeves, said back legs being rearwardly inclined, said crossbar being at an angle to each sleeve approximately equal to the angle between the brace bar and back leg of each frame, so that when the support is so collapsed it rests solely upon the front legs of the frames.

2,282,690
TANK GAUGE
Cecil W. Ashley, El Centro, Calif.
Application September 18, 1939, Serial No. 295,433
4 Claims. (Cl. 73—322)



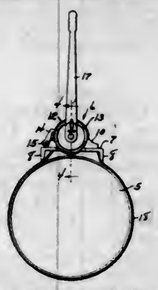
3. In a tank gauge of the class described, the combination with a liquid tank and vertically positioned filler pipe, of a sleeve support rigidly secured in the upper end of said filler pipe, a screw cap threaded on the upper end of said filler pipe and provided with a central opening and a downwardly extending guide portion, a rigid gauge member reciprocably mounted in said guide portion, a float secured on the lower end of said gauge member, and means secured to said sleeve support for guiding said float in said tank, and means for latching said gauge in depressed position when said cap is removed.

2,282,691
TANK GAUGE
Cecil W. Ashley, El Centro, Calif.
Application November 13, 1939, Serial No. 304,179
6 Claims. (Cl. 73—322)



6. In a tank gauge of the class described, the combination of a liquid tank, a fill pipe for said tank and open framework means internally of said fill pipe in converging disposition toward and near the end of said fill pipe adapted to engage a supply nozzle when it is inserted in said fill pipe.

2,282,692
CUTTING DEVICE
Walter C. Athon, Cody, and Elijah E. Phillips, Greybull, Wyo.
Application July 10, 1940, Serial No. 344,802
2 Claims. (Cl. 25—105)



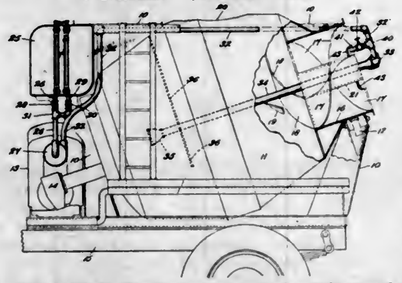
2. In a cutting device of the character described, a channel shaped base member, a pair of bearing members secured to and disposed vertically of the base adjacent the opposed ends thereof, a cylindrical drum extending through and journalled on the said bearing members, the said drum having one end projecting laterally of the base and having a non-circular socket therein, a pair of flanges secured to the drum and disposed adjacent the bearing elements, a ratchet wheel fixed on the drum exteriorly of the bearing elements, a pivoted pawl mounted on the base member operable to engage the ratchet wheel to prevent rotation of the drum in one direction, a flexible cutting cable having one end fastened to the base and the opposite end attached to the drum adapted to be looped about the block of material for cutting the same, and a ratchet handle adapted for detachable connection with the socketed end of the drum for rotating the drum on the base.

2,282,693
LUMINOUS TORUS
Jean Baptiste Joseph Marcel Abadie, Puteaux, France
Application June 8, 1939, Serial No. 278,062
6 Claims. (Cl. 176—1)



2. An incandescent lamp comprising a plurality of incandescent filaments, a luminescent tube surrounding the lamp and containing a pair of electrodes, an electrically conductive and light reflective material disposed within the luminescent tube, with one of the incandescent filaments in the lamp being connected to one of the electrodes of the tube, and the other filament of the lamp being connected to the silvering material of the tube.

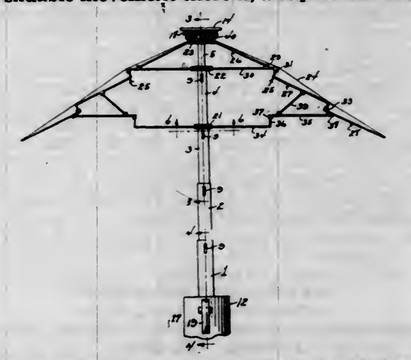
2,282,694
WATER SUPPLY SYSTEM FOR CONCRETE MIXERS
Charles F. Ball, Wauwatosa, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin
Application February 10, 1941, Serial No. 378,283
6 Claims. (Cl. 259—168)



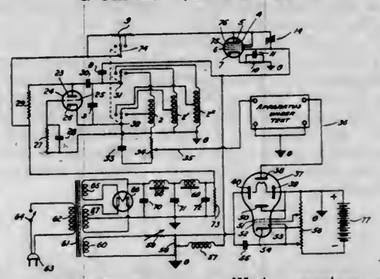
1. In a high discharge concrete mixer of the type comprising a mixing receptacle mounted with its axis inclined to the horizontal and having a closed lower end, a material transfer opening at its upper end, and agitating means within it which during the mixing operation tend to force the solid concrete-making materials toward the lower closed end of the receptacle and produce a compacted agitation-resisting mass of such materials; means for facilitating the introduction and incorporation of the necessary water for the mix into such mass, comprising a main supply conduit extending from exteriorly of the receptacle, through said material transfer opening to a point within the receptacle at which it may discharge water directly within said compacted solids mass; and an auxiliary water supply conduit disposed to discharge water adjacent said transfer opening and exteriorly of said mass.

2,282,695
POCKET UMBRELLA
Peter Badovinac, Cleveland, Ohio
Application October 14, 1940, Serial No. 361,173
4 Claims. (Cl. 135—25)

1. In an umbrella, a staff including a plurality of telescoping sections connected one to the other, certain of said sections being slotted, pairs of spring clips struck from certain of the sections and having inturned end portions received in the slots for automatically latching the sections in raised position, a hollow handle providing a container for housing the sections when collapsed, one end section being connected to the container for slidable movement therein, a cap for the container and being connected to the other end section, means for securing the cap in closed position, converging tongues formed on the inner ends of certain of the sections, and means mounted within the last mentioned end section and having a beveled end cooperating with the converging tongues and the upper ends of the slots for engagement with the spring clips to move the latter out of the slots for unlatching the sections when being moved to collapsed position.



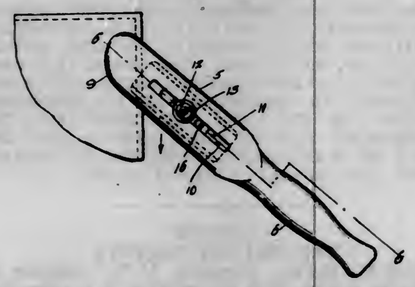
2,282,696
ELECTRICAL CIRCUITS
Alfred W. Barber, Flushing, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application November 3, 1938, Serial No. 238,538
1 Claim. (Cl. 250—20)



A variable frequency oscillator system comprising a first thermionic tube having a cathode grid, and plate, a plurality of three-terminal coils, means to connect one terminal of each coil together, said connecting means being grounded, a parallelly-connected condenser and resistor connected between said grid and said connecting means, a first switch for selectively connecting a second terminal of each of said plurality of coils to said plate, a second switch for selectively connecting a third terminal of each of said plurality of coils to said cathode, a condenser connected between said first switch and said second switch, a variable output circuit comprising a serially connected resistor and condenser connected between said second switch and said connecting

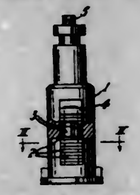
means, a second thermionic tube having a cathode, grid, screen grid and plate, said second thermionic tube serving as a reactance tube, a multi-tapped resistor connected between the anode circuits of said first and said second thermionic tubes, a third switch for selectively regulating the value of resistance of said multi-tapped resistor, a single means for simultaneously actuating said first, said second, and said third switches, apparatus to be tested, variable means to supply energy from said output circuit to said apparatus to be tested, a cathode ray tube having horizontal and vertical deflection means, means to supply energy from said apparatus to said vertical deflection means, a supply source of alternating current, and a rectifier connected between said supply source and said first and said second thermionic tubes, said supply source also supplying alternating current potentials to both the control grid of said second thermionic tube and said horizontal deflection means.

2,282,697
SAFETY CARTON OPENER
Alfred Bates, Elyria, Ohio
Application September 8, 1941, Serial No. 410,073
1 Claim. (Cl. 30—2)



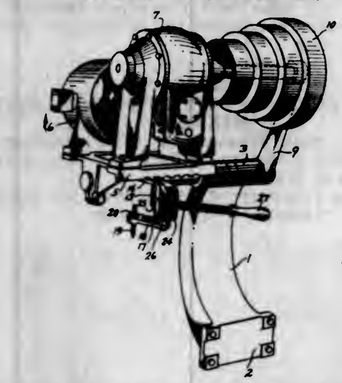
A carton opener comprising a handle having a head portion, said head portion being slit inwardly from its free end, a guide lip at the free end of the head portion, a blade for disposition in the slit, adjusting means for the blade for holding the blade in a definitely projected position, said adjusting means consisting of a bolt extending through the head portion, said head portion being formed with a slot for receiving the bolt, said bolt extending through the blade, said blade having an opening, a plate through which the bolt extends, said plate having a finger extending into the slot and through a second opening in the blade.

2,282,698
LOCK
Heinrich Biemer, London, England
Application February 14, 1940, Serial No. 318,921
In Great Britain February 15, 1939
2 Claims. (Cl. 70—364)



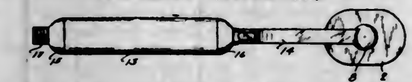
1. In a lock containing a slotted locking cylinder rotatable in a casing, with straight-sided plate tumblers adapted to pass through the slots and operable in known manner by a profiled key, the provision of two parallel profiled rods simultaneously functioning as a guide for the keybit, said rods extending longitudinally into the lock cylinder and passing through apertures in said plate tumblers, whereby the tumbler strips are prevented from falling out of said cylinder during the assembly of the tumblers in said cylinder during manufacture, the length of said rods being such as to leave a space between the ends of the rods and the adjacent end of the slot in the cylinder in which the tumblers may be inserted to enable them to be assembled on the rods.

2,282,699
POWER TRANSMISSION UNIT
Theodore R. Black, Tippecanoe City, Ohio, assignor to The Master Electric Company, Dayton, Ohio, a corporation of Ohio
Application November 20, 1939, Serial No. 305,312
16 Claims. (Cl. 248—16)



3. The combination with a power transmission unit support mounted for oscillatory motion, of a supporting foot therefor limiting its oscillation in one direction, including an axially adjustable standard, means for adjusting the standard to effect oscillation of the support, and an arm pivotally connected to the standard and attachment means fixedly engaging the arm with the support in any one of several positions of longitudinal and lateral adjustment.

2,282,700
TOOTHBRUSH
James D. Bobbroff, Portland, Oreg.
Application April 26, 1939, Serial No. 270,220
3 Claims. (Cl. 15—22)



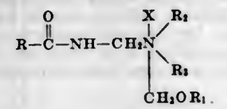
1. A power implement adapted for use with brushing means comprising, a handle containing a statically balanced and dynamically unbalanced rotor adapted for rapid rotation by power means, a spring-piece flexible in only one aspect rigidly joined at one end to the end of said handle and formed at the remaining end with brush attaching means, wherein said brush attaching means may be constrained to simple reciprocation in the plane of a surface being treated by the expedient of flexing said spring-piece to urge said brushing means against said surface

2,282,701
PROCESS OF WATERPROOFING
Louis H. Bock and Herman A. Bruson, Philadelphia, Pa., assignors to Röhm & Haas Company, Philadelphia, Pa.
No Drawing. Application December 8, 1938, Serial No. 244,584
2 Claims. (Cl. 8—116)

1. The process of rendering cellulosic fabrics water-repellent which comprises impregnating said fabrics with a solution containing between about 5% and about 10% of a condensation product of a fatty acid amide of at least 12 carbon atoms, formaldehyde, and a strongly basic, non-aromatic secondary amine of not more than seven carbon atoms, a small amount of a water-soluble basic catalyst for accelerating the reaction between fabric and condensate, and ¼% to 1% of urea, and heating the impregnated fabrics to a temperature between about 120° C. and about 150° C. to react said fabric with said condensate.

2,282,702
DIMETHYLENE QUATERNARY AMMONIUM SALTS
Louis H. Bock, Glenside, Pa., assignor to Röhm & Haas Company, Philadelphia, Pa.
No Drawing. Application March 30, 1940, Serial No. 327,079
7 Claims. (Cl. 260—404)

2. A compound of the formula



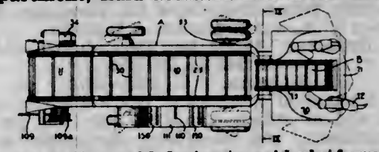
wherein R and R_1 represent aliphatic groups, X represents a halogen, and R_2 and R_3 represent a member of the group consisting of lower aliphatic groups and divalent saturated groups which jointly with the nitrogen form a heterocycle.

2,282,703
ASPHALT PREPARATION
Robert E. Burk, Cleveland, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application October 28, 1936, Serial No. 108,052
8 Claims. (Cl. 106—269)

1. A process of making asphalt, which consists in oxidizing petroleum residuum by heating and agitating in exposure to oxygen and thickening the material to desired melting point and penetration, and after such oxidizing incorporating a small amount of a naphthenate of a metal of the group consisting of cobalt, manganese, iron, lead, vanadium and zinc.

2,282,704
AUTOMOTIVE VEHICLE WITH DETACHABLE LOADING HEAD
George M. Butters, Franklin, Pa., assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Application September 11, 1939, Serial No. 294,278
18 Claims. (Cl. 214—83)

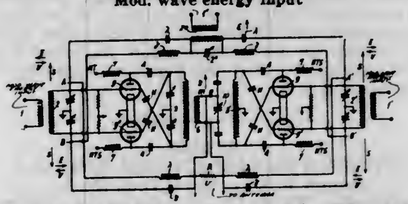
1. Apparatus for loading and transporting material comprising an automotive vehicle having a load carrying compartment therein, a supporting platform at one end of said vehicle, a gathering and loading device supported on said platform for delivering material into said load carrying compartment, fluid actuated means for detachably connecting said device to said platform and means for swinging said platform and said device laterally with respect to said vehicle.



2,282,705
CHEMICAL PROCESS
Albert S. Carter, Wilmington, Del., and Frederick Baxter Downing, Carneys Point, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 4, 1939, Serial No. 288,369
3 Claims. (Cl. 260—678)

1. A process for the manufacture of monovinylacetylene by the polymerization of acetylene which comprises polymerizing acetylene in the presence of a cuprous salt catalyst capable of promoting the polymerization of acetylene to non-benzenoid polymers thereof, maintaining a pressure in the reaction zone of from 1.5 to 5 atmospheres, and removing the resulting monovinylacetylene together with unreacted acetylene before 20 per cent conversion of acetylene to polymers thereof takes place.

2,282,706
MODULATED WAVE AMPLIFIER
Henri Chireix and Jacques Fagot, Paris, France, assignors to Compagnie Generale de Telegraphic Sans Fil, a corporation of France
Application November 22, 1939, Serial No. 305,580
In France December 29, 1938
4 Claims. (Cl. 179—171)

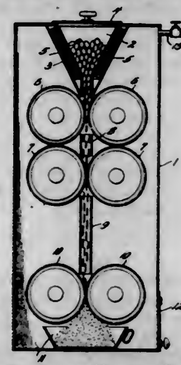


1. In a modulated carrier wave amplifier, a load circuit, a source of modulated wave energy, pairs of electron discharge devices, each having input and output electrodes, tuned circuit means for applying voltages from said source substantially in phase opposition on the input electrodes of the devices of said pairs, other means for applying voltage from said source substantially in phase opposition on the input electrodes of the devices of said pairs of devices, said last named voltages as applied being displaced in phase relative to the second named voltages applied to said devices, a load connected with said output electrodes, and additional means for impressing voltages from said load substantially in phase opposition on the input electrodes of the devices of said pairs of devices, said last voltages as applied also being in phase opposition with respect to said second named voltages as applied to the input electrodes of the devices.

2,282,707
LUBRICATING OIL AND LUBRICATION THEREWITH
Elmer William Cook, New York, N. Y., assignor to Tide Water Associated Oil Company, Bayonne, N. J., a corporation of Delaware
No Drawing. Application December 10, 1938, Serial No. 244,976
8 Claims. (Cl. 252—48)

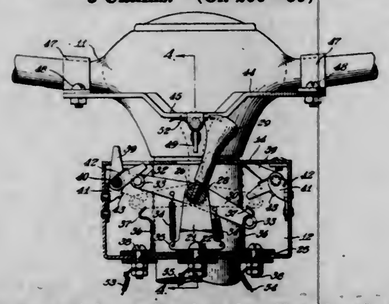
1. Method of lubricating bearing surfaces, at least one of which comprises an alloy having substantially the corrosion susceptibility of cadmium-silver, cadmium-nickel and copper-lead alloys, which comprises applying to the bearing surfaces lubricant having incorporated therein, in corrosion inhibiting proportions, a sufficiently oil-soluble organic metallic sulfide.

2,282,708
COFFEE ROASTING PRODUCT, METHOD, AND MACHINE
Tobias Dantzig, Hyattsville, Md.
Application September 26, 1940, Serial No. 358,930
13 Claims. (Cl. 99—68)



1. The method of roasting coffee which comprises preheating the green coffee bean at a temperature substantially below roasting, flattening the preheated bean while heating it to pre-roast temperature insufficient to complete the roast, and flaking the partially roasted, flattened bean while heating it to a temperature sufficient to complete the roast.

2,282,709
SWITCH FOR DIRECTIONAL SIGNALS
Joseph F. Day, Royal Oak, Mich.
Application March 12, 1941, Serial No. 383,025
3 Claims. (Cl. 200—59)



1. In switch mechanism for directional signal systems for automobiles, a fixed casing, a pair of resilient contact terminals secured in the casing, a rocker bar mounted in the casing, a contact element extending laterally from each end of the rocker bar releasably engageable with the respective resilient terminals, a pair of angular trip levers pivotally supported in the casing and operable to engage the contact elements on the rocker bar, a spring yieldingly urging each trip lever to retracted position and to dispose the rocker bar so that the contact elements thereon are disengaged from the resilient terminals, the said levers being respectively movable to projecting positions by manual movement of the rocker bar, and a movable tripping tongue operable to retract the said levers.

2,282,710
STABILIZATION OF PETROLEUM HYDROCARBONS
Melvin A. Dietrich, Claymont, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 14, 1939, Serial No. 279,043
27 Claims. (Cl. 252—47)

1. The method of inhibiting the deterioration of petroleum hydrocarbons in the presence of metals normally active to catalyze deterioration thereof, which comprises incorporating in the petroleum hydrocarbons a small amount, sufficient to retard deterioration thereof, of an organic compound having an amino nitrogen atom and a divalent sulfur atom each singly bonded to adjacent aliphatic carbon atoms in open chain configuration, the second valence of the sulfur atom being satisfied by a member of the group consisting of hydrogen and aliphatic radicals.

2,282,711
RIVET
Howard J. Eklund, Chicago, Ill.
Application November 14, 1940, Serial No. 365,628
5 Claims. (Cl. 85—1)

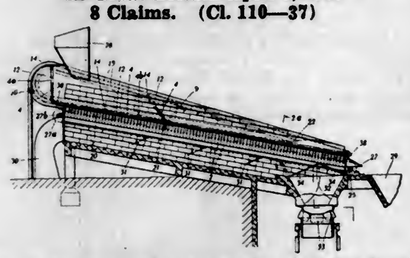


1. A fastening device consisting of a nut comprising two body parts disposed endwise coaxially and connected by a frangible neck part, and a headed bolt having a shank threaded to fit said nut and having a frangible portion intermediate the ends of its threaded part.

2,282,712
RECOVERY OF HYDROGEN HALIDES
William Engs, Piedmont, and Henry W. de Jong, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application April 30, 1940, Serial No. 332,610
17 Claims. (Cl. 23—154)

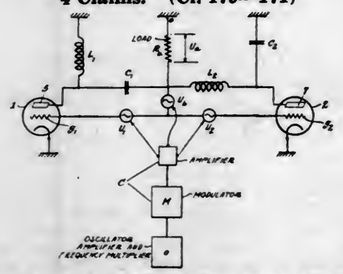
15. In a process for the separation of substantially anhydrous hydrogen halide from a vaporous mixture containing hydrogen halide and hydrocarbons, the steps of contacting said vaporous mixture with a liquid anhydrous organic oxy-compound under conditions whereby substantially all of the hydrogen halide in the vaporous mixture is dissolved by said oxy-compound while leaving the hydrocarbon vapors substantially unaffected, separately removing the liquid phase, and recovering the substantially anhydrous hydrogen halide therefrom.

2,282,713
FURNACE GRATE
Friedrich Wilhelm Eske, Sheffield, England
Application April 5, 1940, Serial No. 328,122
In Great Britain April 6, 1939
8 Claims. (Cl. 110—37)



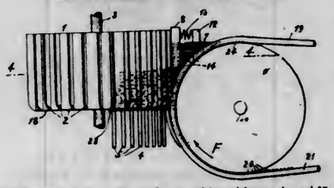
1. In an automatic apparatus for distributing solid fuel above the grate of a furnace and for affecting removal of ash and slag from the furnace, comprising in combination, the furnace grate, a power driven member in the form of a blade adapted to be moved backward and forward above the grate alternately from one end of the grate to the other, said blade extending substantially the whole width of the furnace grate with its lower edge in close proximity to the grate, means for guiding and tilting the blade rearwardly as it travels from the front end to the rear end of the grate and including means whereby the angle at which the blade is supported relative to the grate is reduced progressively until the blade occupies a position parallel to or substantially parallel to the surface of the grate, said guiding and tilting means for the blade being so formed to provide wherein the blade is tiltable about an axis parallel to and adjacent to its lower edge, and means for automatically returning the blade in such position to the front end of the furnace.

2,282,714
METHOD AND MEANS FOR THE LINEAR TRANSMISSION OR AMPLIFICATION OF AMPLITUDE-MODULATED CARRIER WAVES
Jacques Fagot, Paris, France, assignor to Compagnie Generale de Telegraphie Sans Fil, a corporation of France
Application December 1, 1939, Serial No. 307,022
In France December 2, 1938
4 Claims. (Cl. 179—171)



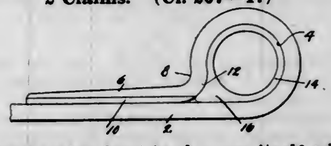
1. In a modulated carrier wave amplifier, a load circuit, a source of modulated wave energy, a pair of electron discharge devices each having input and output electrodes, means for applying voltages from said source in phase displaced relation on the input electrodes of said tubes, means for applying voltage from said source in phase on the input electrodes of said tubes, a load impedance connected with said output electrodes, and means for impressing voltages which vary in accordance with variations of the amplitude of the potentials developed in said load impedance on said input electrodes in phase opposition to said second named voltage impressed in phase on said input electrodes.

2,282,715
PROCESS AND APPARATUS FOR THE DECORTICATION OF RAMIE
André Faure, Limoges, France
Application August 9, 1939, Serial No. 289,130
In France August 19, 1938
13 Claims. (Cl. 19—24)



1. An apparatus for decorticating textile stalks, which comprises a rotatable thrasher for removing the wood, and a resiliently mounted concave having a plurality of operating parts arranged in an arcuate group and individually according to the generatrices of the thrasher for removing the pellicle.

2,282,716
SPRING
William H. Foster, Mineola, N. Y., assignor to The E. R. Merrill Spring Company, New York, N. Y., a corporation of New York
Application April 6, 1940, Serial No. 328,219
2 Claims. (Cl. 267—47)



1. A leaf spring bent back upon itself adjacent the end of the leaf to form an eye offset from the leaf face, the bent back metal being given a reverse bend adjacent the closure of the eye to provide an extension of the metal of the eye overlying the face of the leaf, said extension being welded to the leaf face, and a bushing in said eye having a press fit therein and provided with an offset extending between the face of the leaf and said extension to prevent turning of the bushing in the eye.

2,282,717
SUSPENSION LINE FOR PARACHUTES AND THE LIKE
Leonard P. Frieder, New York, N. Y.
Application October 24, 1938, Serial No. 236,809
6 Claims. (Cl. 96—25)

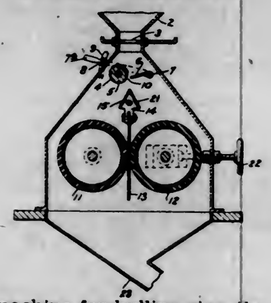
1. A method of making shroud lines for parachutes and the like which comprises the grouping together of parallel silk filaments to form a plurality of strands, stretching the strands under water and drying them, dividing the plu-

rality of strands into groups and bringing the strands into parallel relation to constitute a plu-



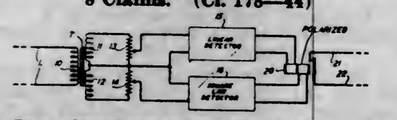
rality of tapes, and then braiding the plurality of tapes together to construct the finished line.

2,282,718
RICE HULLING MACHINE
Richard Fujioka, Berkeley, Calif.
Application March 8, 1941, Serial No. 382,407
5 Claims. (Cl. 23—30)



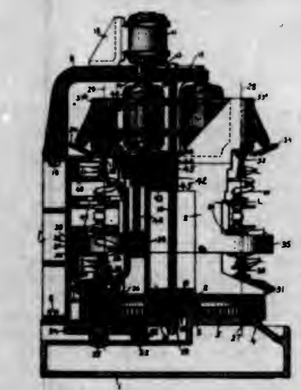
1. In a machine for hulling rice, the combination of a pair of hulling rollers mounted to turn towards each other and with a screen or reticulated partition mounted between them, each roller arranged in approximate tangency to a respective side of the screen, the rollers and screen being arranged in such juxtaposition that grain passing between the rollers and the screen is held in the screen pockets and given a rubbing action by the rollers to remove the hulls.

2,282,719
SIGNALING SYSTEM
Danforth K. Gannett, Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 25, 1940, Serial No. 362,781
8 Claims. (Cl. 178—44)



7. In a signaling system, the method of selectively distinguishing between currents having a wave form with a high peak factor from currents having a wave form with a low peak factor, said method comprising rectification of the alternating current to obtain a current the amplitude of which is directly proportional to that of the alternating current, rectification of the alternating current to obtain a current the amplitude of which is proportional to the square of the amplitude of the alternating current and the differential combination of the linear and square law rectified currents.

2,282,720
CRANKSHAFT BROACHING LATHE
Willard L. Groene, Cincinnati, Ohio, assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware
Application September 19, 1940, Serial No. 357,451
3 Claims. (Cl. 90—33)

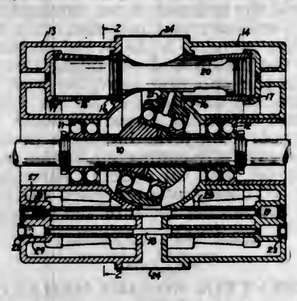


1. In a broaching lathe, a frame, a rotatable work carrier mounted on said frame, means for continuously actuating said work carrier, a series of work spindles provided on said carrier each comprising a pair of opposed centers for rotatively supporting the ends of a work piece to be machined in said lathe, a center drive work spindle mounted on said carrier and located between said centers, chucking means mounted on said work carrier intermediate said work spindle and adapted to receive said work piece, independent means to rotate said chucking means and work piece, a series of broaching tools mounted on said frame having their cutting teeth arranged in the path of travel of work pieces in said spindles as effected by rotation of said work carrier, said broaching means being located between said centers and said center drive work spindles.

2,282,721
ENGINE CONSTRUCTION
Edwin S. Hall, New Haven, Conn.
Application August 9, 1939, Serial No. 289,149
7 Claims. (Cl. 123—58)

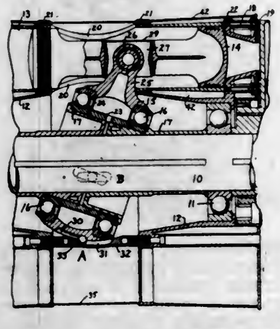
1. In an engine, two similar casing members spaced apart, chambers for cooling liquid formed in said casing members, cylindrical bores in said casing members in coaxial pairs facing each other, individual cylinder sleeves received by said pairs of bores, thru-bolts adjacent said sleeves drawing said casing members together tightly upon said sleeves, means for sealing said sleeves in said bores so that said sleeves form "wet liners" in said liquid chambers formed in said casing

members, and casing means extending from one



of said casing members to the other and therewith forming a closure about said sleeves.

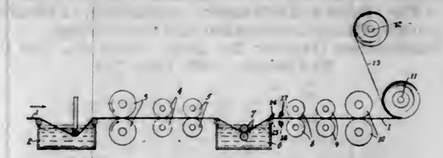
2,282,722
CROSSHEAD MECHANISM
Edwin S. Hall, New Haven, Conn.
Application January 30, 1940, Serial No. 316,402
6 Claims. (Cl. 123—58)



1. In a parallel cylinder mechanism of the class described, in combination, a shaft, casing members comprising a pair of cylinder blocks, bearings for said shaft in said casing members, cylinder heads associated with said blocks, cylinder sleeves open at both ends and entering both said casing members as wet cylinder liners and extending from the cylinder heads of one of said blocks to those of the other, studs in the ends of said cylinder sleeves for securing them in said casing members thereby fastening said casing members together with said sleeves in tension during operation, means for sealing the joints between said cylinder sleeves and said casing members to prevent leakage of cylinder gases or coolant, piston members each including a pair of pistons and a central crosshead portion larger in diameter than said pistons, the central portion of one of said sleeves serving as a crosshead guide for said crosshead, and mechanism operably connecting said crossheads with said shaft.

2,282,723
METHOD OF FINISHING METAL SHEETS
Alfred E. Hamilton, Pittsburgh, Pa.
Application November 22, 1939, Serial No. 305,639
2 Claims. (Cl. 29—18)

1. The method of finishing cold-rolled sheets and the like, which comprises abrading and polishing the surfaces thereof to a depth not substantially in excess of that required for removing the roughness remaining after cold-rolling,

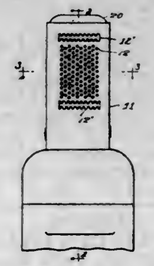


buffing the sheets to a bright finish, and thereafter rolling them by mirror-finished rolls.

2,282,724
PROCESS OF DYEING WITH SUBSTANTIVE COLORS
Richard Haynn, Frankfort-on-the-Main, Germany, assignor to General Aniline & Film Corporation, a corporation of Delaware
No Drawing. Application October 29, 1937, Serial No. 171,644. In Germany November 3, 1936
2 Claims. (Cl. 8—87)

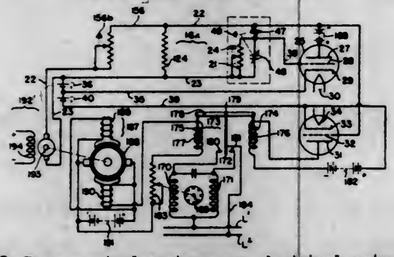
2. The process which comprises dyeing textile fibers with a substantive dyestuff in a boiling dyebath, in the presence of urea.

2,282,725
SHAVING IMPLEMENT
Ivar Jepson, Chicago, Ill., assignor to Chicago Flexible Shaft Company, Chicago, Ill., a corporation of Illinois
Application May 21, 1938, Serial No. 209,234
6 Claims. (Cl. 30—43)



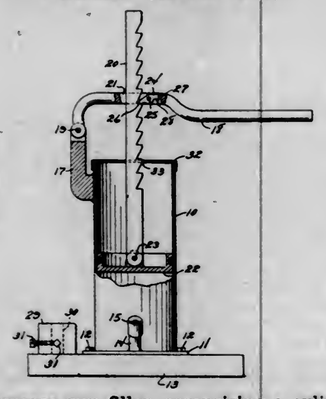
1. In a shaving implement, a removable comb, a cutter, a holder for the cutter, means for rapidly moving the holder to operate the cutter in coaction with the comb, means whereby the cutter is free to move upon and with respect to the holder in a direction to urge its cutting edge into intimate shearing engagement with the comb when the holder is operated and whereby when the holder is operated centrifugal force is imposed on the cutter in said direction sufficient to disconnect the cutter from the holder in the event of removal of the comb, and means carried on the holder in cooperative relation with the cutter arranged so as not to interfere with the normal functioning of the cutter and to positively prevent disconnection of the cutter from the holder in the event the latter is operated with the comb removed, the second mentioned means having a part normally preventing said disconnection and operable manually by the user to permit removal of the cutter from the holder without disturbing the operative relation of the holder with respect to the shaving implement.

2,282,726
CONTROL APPARATUS
Harry S. Jones, Philadelphia, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 25, 1939, Serial No. 301,174
42 Claims. (Cl. 236—78)



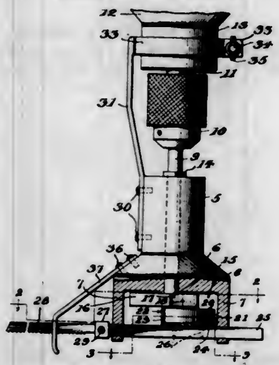
13. In a control system, an electrical network, means to adjust said electrical network in response to a condition change, electronic discharge means having an input circuit and an output circuit, a connection between said electrical network and the input circuit of said electronic discharge means, means connected in the output circuit of said electronic discharge means to control said condition in the direction to counteract said change and thereby stabilize said condition, second electronic discharge means having an input circuit and an output circuit, means connected in the output circuit of said second mentioned electronic discharge means to adjust said electrical network to at least partially neutralize the adjustment of said network by said condition responsive means, and a connection between said electrical network and the input circuit of said second mentioned electronic discharge means to control said second mentioned electronic discharge means in accordance with the adjustments of said electrical network, said electrical network including means tending to dissipate the effect of adjustment thereof on the input circuit of said second mentioned electronic discharge means whereby said means connected in the output circuit of said second mentioned electronic discharge means produce a further adjustment of said electrical network in the same direction.

2,282,727
GREASE GUN FILLER
William A. Kasuske, Twin Brooks, S. Dak.
Application January 29, 1940, Serial No. 316,275
2 Claims. (Cl. 221—47.5)



1. A grease gun filler, comprising a cylinder, a grease gun filler tube communicating with the lower end of the cylinder, a cap closing the upper end of the cylinder and provided with a slot, a piston in the cylinder, a piston rod pivotally connected to the piston and extending through the opening in the cap and provided with ratchet teeth, a bracket arm secured to one side of the cylinder and extending upwardly above the cylinder, an operating lever having a downwardly turned end pivotally connected to the upper end of the bracket, and an opening through which the piston rod passes, and a pivoted pawl adapted to engage the ratchet teeth of the piston rod.

2,282,728
ATTACHMENT FOR ROTARY DRILLS OR THE LIKE
Joseph W. Kern, Buffalo, N. Y.
Application November 19, 1940, Serial No. 366,292
1 Claim. (Cl. 29—73)

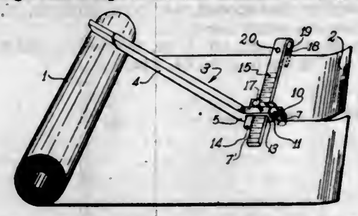


In an attachment for rotary power drills, a vertically disposed short cylindrical shaped housing having a frusto conical end arranged subjacent to a rotary power drill, an arm secured to the housing and including a clamp extending at right angles thereto and embracing and gripping a fixed portion of the power drill, a shaft rotated by the power drill and journaled in the housing, spaced depending arms on the frusto conical end of said housing and having openings aligning with each other, a tool carrying bar slidable in the openings, an elongated inverted channel shaped member secured to the bar and extending at right angles thereto and movable therewith between the arms, a ball bearing unit engaging the channel member, a semi-arcuate shaped member fixed to the shaft between the arms and including an arm extending outwardly from the shaft, and a pin engaging in the ball bearing unit and fixed to the latter-named arm for reciprocating the tool bar by the rotation of said shaft.

2,282,729
CUTTING TOOL
Charles S. Knauf, Chicago, Ill.
Application March 26, 1941, Serial No. 385,377
4 Claims. (Cl. 30—293)

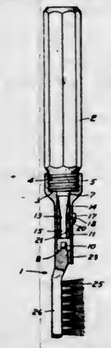
1. A tool for cutting a strip of material of a constant width from a length of material of a greater width, said tool comprising a handle portion, a cutting knife at the lower end of the handle portion, said handle having a non-circular slot at the lower end thereof, a guide rod having a non-circular section extending through the slot of the handle portion and slidable in a direction at right angles to the cutting edge of the knife,

a guide bar secured to the handle and bearing against the rod for holding it against angular tilting with respect to the handle said guide rod



including means embracing an edge of the length of material for guiding the tool to maintain the knife edge at a fixed distance from said edge during the cutting action.

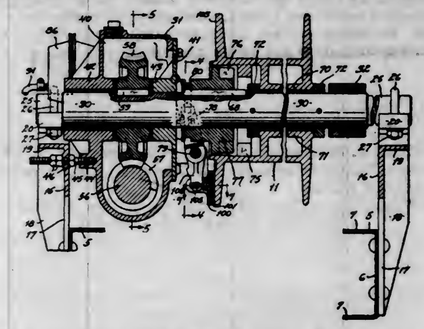
2,282,730
TOOTHBRUSH
Maurice Kraft, San Francisco, Calif.
Application April 1, 1940, Serial No. 327,089
3 Claims. (Cl. 15—137)



1. A tooth brush comprising a fluid container; a brush member carrying bristle tufts on one end and having a chamber in the other end thereof; said chamber having one end open and communicating with the container and the other end closed by a wall; a plunger having a bore therein adapted to be manually reciprocated in said chamber; a stud formed on said wall and protruding into said chamber, said stud being in coaxial alignment with said bore and adapted to enter the latter on the forward movement of the plunger; said brush member having a discharge passage leading from said wall to the outer surface of said brush member for squirting said fluid upon the bristle tufts.

2,282,731
WINCH
Neil P. Larsen and Herman J. Troche, Cleveland Heights, Ohio, assignors to The American Coach & Body Company, Cleveland, Ohio, a corporation of Ohio
Application February 16, 1938, Serial No. 190,760
4 Claims. (Cl. 254—187)

1. In a hoisting mechanism of the class described, a cable winding drum, driving means for said winding drum, a jaw clutch interposed between the winding drum and the driving means and operable to selectively connect and disconnect the driving means with the drum, said clutch being arranged and adapted so that the jaws thereof cooperate with the winding drum when the clutch is in a drive connecting condition, a brake for said drum, a vacuum operated means connected to the brake and clutch to simultaneously apply said brake to the drum and disconnect the clutch from its driving relation

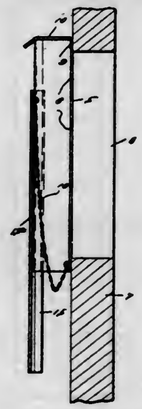


with the drum, said vacuum operated means being arranged and adapted to effect the disconnection of the jaw clutch from the drum and to effect the application of the brake to the drum only when there is no load on the winding drum.

2,282,732
COMPOSITION FOR TREATING SOIL
Owen Bevan Lean, Winkfield, Windsor, and Gilbert Armstrong, Runcorn, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application October 17, 1938, Serial No. 235,538. In Germany October 20, 1937
3 Claims. (Cl. 167—22)

3. A soil treating composition which comprises a water-soluble chloracetate in admixture with a solid alkaline diluent capable of neutralizing any free acid that may be present in the chloracetate or that may be formed during weathering.

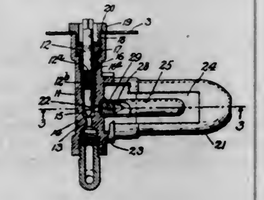
2,282,733
VENTILATOR
Joseph P. Malloy, Washington, Ind.
Application February 12, 1941, Serial No. 378,635
4 Claims. (Cl. 98—37)



1. In a ventilator of the character described, a perforated plate adapted to be mounted opposite

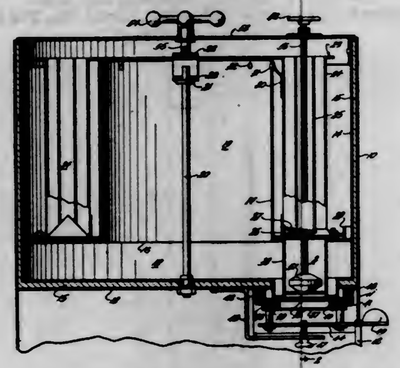
a ventilating opening and provided with a pair of spaced parallel guide members positioned at opposite edges of the plate, and a slide supported by said guide members outwardly thereof for shifting movement relative to and in a plane paralleling said perforated plate, and interengaging means on said slide and said guide members coacting to detachably retain said slide in operative engagement with said guide members.

2,282,734
VENTING DEVICE FOR RADIATORS
William J. Masoner, Chicago, Ill., assignor to The Dole Valve Company, Chicago, Ill., a corporation of Illinois
Application May 25, 1936, Serial No. 81,596
4 Claims. (Cl. 137—122)



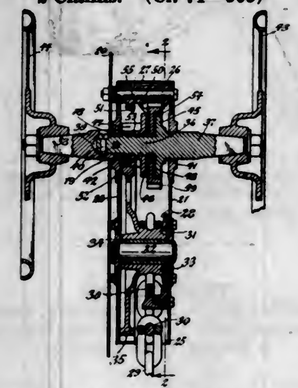
3. An air venting device for hot water systems, comprising a casing through which the air from the radiator is discharged, a valve in said casing for controlling the discharge of air from the casing, a signaling device connected with said casing and actuated by the air discharged from the casing, and a receptacle attached to said casing, for receiving water that may be discharged from the casing, said signalling device being located on said casing.

2,282,735
BUTTER SLICING AND DISPENSING MACHINE
Wallace M. Merrick, Los Angeles, Calif.
Application August 23, 1940, Serial No. 353,970
9 Claims. (Cl. 31—21)



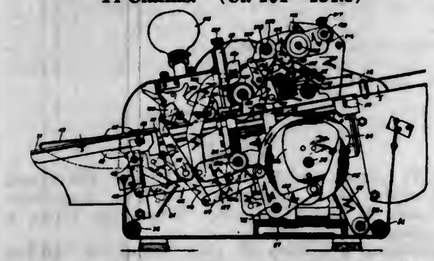
1. In a butter slicer the combination of a pair of opposed supporting plates against which the butter is to be fed, a pair of opposed cutting blades spaces from the supporting plates a distance equal to the thickness of the pat of butter to be cut and means for moving the blades and plates toward and away from each other.

2,282,736
HAND BRAKE MECHANISM
Everard C. Mersereau, Buffalo, N. Y., assignor to National Brake Company, Inc., Buffalo, N. Y., a corporation of New York
Application March 30, 1939, Serial No. 265,011
2 Claims. (Cl. 74—505)



1. A hand brake mechanism comprising a housing having outer and inner walls, an operating shaft extending through said walls and journaled thereon adjacent to one end thereof in a bearing on one of said walls, a stop collar secured to the opposite end of said shaft and journaled in a bearing on the other of said walls, a clutch disk fixed on said shaft adjacent to one of said walls, a gear pinion arranged on said shaft adjacent to the other wall and having a screw connection therewith and also provided with a clutch disk, a gear wheel meshing with said gear pinion and adapted to be operatively connected with the brake member to be actuated, a detent disk arranged between said clutch disks and adapted to be gripped thereby and also released therefrom, and a one-way holding means operating on said detent disk.

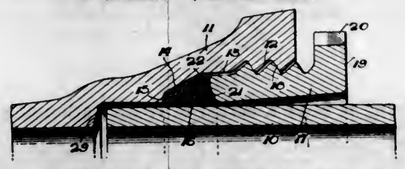
2,282,737
PRINTING TRANSFERRING MACHINE
Albert W. Mills, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application May 8, 1941, Serial No. 392,409
14 Claims. (Cl. 101—134.5)



1. In a machine of the class described having an original sheet to be transferred, a table to support a copy sheet, a pressure bar to press the original sheet and copy sheet together, said bar being repeatedly operable, in combination with feed rollers normally engaging said original sheet to line space the same for each operation of the pressure bar, an aligning device for engaging the original sheet and adjusting the same to bring

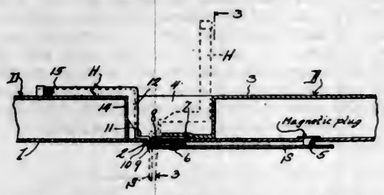
the lines thereon into a right angle relationship with the direction of feeding, said device being normally ineffective, and means called into action periodically for disengaging the feed rollers from the original sheet and rendering the aligning device effective.

2,282,738
SCREW GLAND JOINT
William D. Moore, Birmingham, Ala., assignor to American Cast Iron Pipe Company, Birmingham, Ala., a corporation of Georgia
Application June 10, 1940, Serial No. 339,778
3 Claims. (Cl. 285—166)



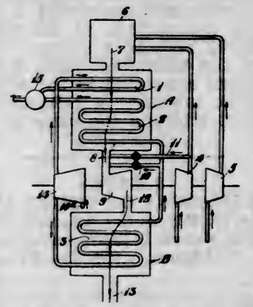
1. A screw gland joint structure comprising a bell member, a spigot member entering the bell member, said bell member providing a socket encircling the spigot member to define a gasket chamber, said gasket chamber having a peripheral wall inwardly inclined toward its inner extremity and a shoulder at said extremity extending at approximately a right angle to the axis of said socket with a surface which in a radial direction is large as compared with the clearance between said bell member and said spigot member, a tapered annular gasket having an inner end surface abutted against said shoulder and an outer end surface making a large angle with the axis of said socket, the outer extremity of said bell socket being provided with internal threads, and a gland ring provided with external threads received in said first-named threads, the inner extremity of said gland ring having its inner end surface composed of two angularly related faces both in contact with said gasket, one of said end faces being inclined with respect to the axis of said ring and reacting with the end surface of said gasket to press said gasket radially against the exterior surface of said spigot member.

2,282,739
VEHICLE TRAFFIC SIGNAL
Peter S. Nielsen, Bismarck, N. Dak.
Application October 5, 1940, Serial No. 359,942
1 Claim. (Cl. 116—52)



A traffic signal comprising, in combination, a wall structure having a vertically disposed slot, a plate at the outer side of the wall structure, means for pivotally mounting said plate on the wall structure adjacent to the slot, said plate having outward swinging movement with respect to the wall structure, a semaphore, means for pivotally connecting an end portion of the semaphore to the plate, said semaphore having swinging movement in a direction substantially at right angles to the direction of swinging movement of the plate, the pivoted end portion of the semaphore having a tail piece extending through the slot of the wall structure, a handle connected to said tail piece, said handle being at the side of the wall structure opposite from the semaphore, and a magnetic plug carried by the outer face of the wall structure for coaction with the inner surface of the semaphore for releasably holding the semaphore in an ineffective position closely adjacent to the wall structure, said semaphore having sliding contact with the plug to allow the semaphore to be moved under strain to either side of the plug.

2,282,740
HEAT EXCHANGE SYSTEM
Walter Gustav Noack, Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland
Application November 7, 1939, Serial No. 303,286
In Germany November 11, 1938
2 Claims. (Cl. 263—19)

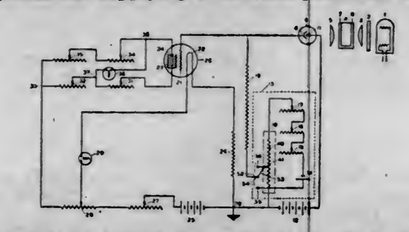


1. A hot blast plant comprising, in combination, a multi-stage metallic heat exchanger for heating the blast, said heat exchanger comprising a high temperature stage and a low temperature stage, a combustion chamber for supplying hot combustion gases under pressure to the high temperature stage of said heat exchanger, a gas turbine supplied with hot motive gases from the high temperature stage of the heat exchanger and exhausting into the low temperature stage of the heat exchanger, a compressor driven by said gas turbine for supplying compressed fuel to said combustion chamber, compressor means driven by said gas turbine for supplying compressed air to the low temperature stage of the heat exchanger for the blast to be heated and to the combustion chamber, and means by-passing the combustion chamber and the high temperature stage of the heat exchanger for introducing a portion of the compressed air from said compressor means into the stream of hot motive gases supplied to the gas turbine from the high temperature stage of the heat exchanger.

2,282,741
APPARATUS FOR MEASUREMENT
Allan E. Parker, Yonkers, N. Y., assignor of one-half to Electrical Testing Laboratories, a corporation of New York, and one-half to Food Research Laboratories, Inc., a corporation of New York
Application June 9, 1938, Serial No. 212,747
9 Claims. (Cl. 88—14)

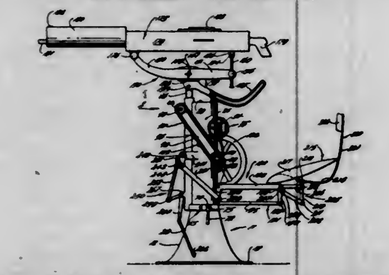
1. Apparatus for determining a magnitude having a related photo-electric effect measurable potentiometrically comprising in combina-

tion; means for producing said photo-electric effect which includes, a source of radiant energy, means for selection therefrom of radiation having a particular wave length, a photo-electric cell responsive to said selected energy; the said cell being arranged in circuit with two sources of potential, the first source supplying a fixed potential, and the second source comprising a system for supplying a variable potential which



includes, a source of potential, a variable resistance system and a potentiometer; and thermionic tube means for detecting the response of the photo-electric cell comprising, a control grid connected to the cathode of the photo-electric cell, a variable resistance system connected to the plate of the thermionic tube, a variable resistance system connected to the screen grid of the thermionic tube, and a galvanometer bridging the screen grid and the plate of the thermionic tube.

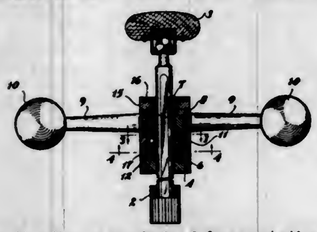
2,282,742
BASE FOR MACHINE OR OTHER LIGHT GUN
John W. Poysa, Los Angeles, Calif.
Application March 1, 1939, Serial No. 259,160
22 Claims. (Cl. 89—37)



1. In a device as described, a supporting structure for a gun, a rod-like structure mounted thereon for vertical movement, a gun carriage pivotally connected to the upper end of the rod-like structure, the gun carriage having means for attaching a gun, a cam arm rigidly attached to the gun carriage and engaging a fixed guide on the supporting structure, means to raise and lower the rod-like structure to thereby raise and lower the gun carriage and simultaneously tilt such carriage in reference to a horizontal plane.

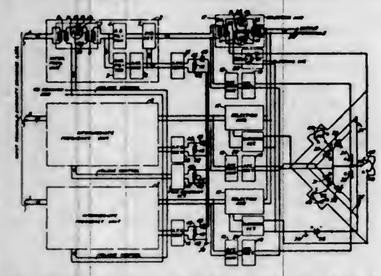
2,282,743
WRENCH
William A. Pervier, Watertown, Mass.
Application April 24, 1941, Serial No. 390,079
5 Claims. (Cl. 81—58)

5. In a wrench the combination comprising a driven member including a work engaging end rendered active on the turning of said driven member, a rotatable driving member having a period of free rotation, a secondary driving member having a period of free rotation, means including a slotted way and a pin entering said way whereby said primary driving member may have engagement with said secondary driving member for turning it after a period of free rotation of said primary driving member, and means including a slotted way and a pin entering said way whereby said secondary driving member may have engagement with said driven member for



turning it after a period of free rotation of said secondary driving member and only after a complete revolution of said primary driving member, means for maintaining said members in nested relationship to each other, and friction reducing bearings between said members lying outwardly beyond the slotted ways and pins entering said ways.

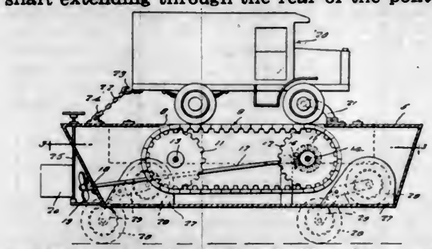
2,282,744
VOLUME CONTROL CIRCUIT
Frank A. Polkinghorn, Bloomfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 29, 1940, Serial No. 326,759
6 Claims. (Cl. 250—20)



1. In combination, a plurality of amplifiers for receiving different sets of waves of variable intensity, a separate rectifier connected to the output of each amplifier, a plurality of continuously conductive and independently operative unilateral devices and a common volume control resistance, one set of corresponding output terminals of said rectifiers being connected to the same terminal of said resistance and the other set of corresponding terminals of said rectifiers being connected to the other terminal of said resistance each through a different device, and said resistance being entirely included in the input circuit of each amplifier.

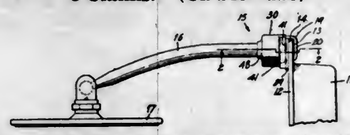
2,282,745
VEHICLE DRIVEN BOAT
Frank G. Preston, Tacoma, Wash.
Application May 2, 1941, Serial No. 391,590
5 Claims. (Cl. 115—0.5)

1. A vessel of the character described comprising a pontoon, a treadmill having an upper flight thereof operative on a plane with the top of the pontoon and forming a part of the deck of the pontoon, said treadmill being driven by an operating vehicle held upon the pontoon, a shaft extending through the rear of the pontoon



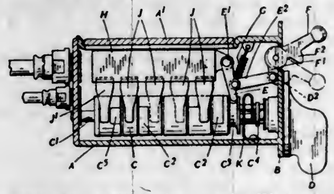
and being driven by the treadmill and a propeller at the rear end of the shaft.

2,282,746
CLAMP DEVICE
Benjamin Putterman, Brooklyn, N. Y., assignor to Yankee Metal Products Corp., Norwalk, Conn., a corporation of New York
Application November 24, 1941, Serial No. 420,261
5 Claims. (Cl. 248—226)



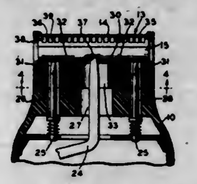
4. In a device of the character described for mounting a vehicle accessory, such as a rearview mirror, on a vehicle part, the combination of a pressing member; a supporting arm for said accessory, carried by and extending outwardly from said pressing member; a shell-like casing of bendable material, having an open inner end, said casing being formed with laterally offset portions adjacent said open inner end and providing inwardly facing shoulder means therebetween; fingerlike extensions on said casing at the open end thereof, bent to underlie marginal portions of said member and locate and confine the latter relative to shoulder means in said casing; and clamping means having a gripping section opposed to said pressing member outside said casing; an operating section in said casing and connected to said gripping section; and means operably interposed between said pressing member and said operating section, for causing relative movement between said pressing member and said gripping section.

2,282,747
ELECTRIC SWITCH FOR CONTROLLING A NUMBER OF MAGNETO CIRCUITS
Frank Raymond Faber Ramsay, London, England, assignor to D. Napier & Son Limited, London, England, a company of Great Britain
Application March 8, 1941, Serial No. 382,442
In Great Britain March 14, 1940
2 Claims. (Cl. 200—16)



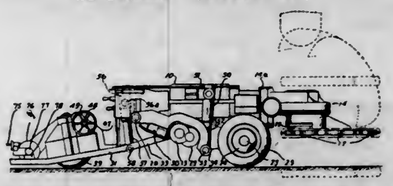
1. An electric switch for controlling a number of contacts having means to switch them all off together or separately, comprising a movable barrel having contacts, an operating member for rotating the barrel including a disc provided with a notch and forming a preselecting member for the contacts to be connected for effecting contact, a connecting member including a manually operated lever having a stop, a toggle mechanism and a spring connected therewith whereby the lever will be returned to its initial position directly it is released unless the stop on said lever registers with the notch in said disc, thus giving the switch the property of being both self-releasing and self-locking in accordance with the position of the preselecting member.

2,282,748
DRY SHAVER
James H. Rand, Jr., Stamford, Conn., and Wallace H. Nichols, Port Washington, N. Y., assignors, by mesne assignments, to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application March 31, 1938, Serial No. 199,134
3 Claims. (Cl. 30—43)



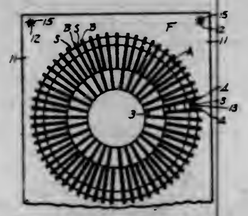
3. A dry shaving head comprising a fixed outer cutter, an inner cutter movably mounted therein, vibratory means having a free end for engaging and oscillating said inner cutter, said outer cutter having a base portion with a slot therein to permit passage of the free end of said vibratory means, and a resilient bushing positioned adjacent said free end portion of said vibratory means and at opposite sides thereof and operable at the end of the stroke of vibratory motion of said means for limiting the amplitude of vibration and deadening sound.

2,282,749
MINING MACHINE
John D. Russell, Sugarcreek Township, Venango County, Pa., assignor, by mesne assignments, to Joy Manufacturing Company, Franklin, Pa., a corporation of Pennsylvania
Application July 3, 1939, Serial No. 282,583
23 Claims. (Cl. 262—28)



1. The combination in a mining machine having a body and a cutter bar mounted for rotation on said body, of a supporting carriage comprising a member pivotally connected to each side of said body, a traction member journaled on each of said side members, a platform pivotally connected to said body, a steering member supporting said platform and means for adjusting said body, relative to said platform and said traction members.

2,282,750
PROCESS OF MAKING PLUG JACKETS
Fred C. Schueler, Andover, Mass., assignor to John W. Bolton & Sons, Inc., Lawrence, Mass., a corporation of Massachusetts
Application April 19, 1939, Serial No. 268,720
11 Claims. (Cl. 29—148.2)



1. The process of making an unsplit jacket for Jordan engine plugs which consists of stringing bars and separators, each having a plurality of closed holes, on curved metal wires which pass through the holes; of then squeezing the bars and separators together circumferentially; of then while under pressure welding the ends of the wires together; and of then filling part of the space around each weld and between the adjoining end bars with a soft material which is allowed to harden.

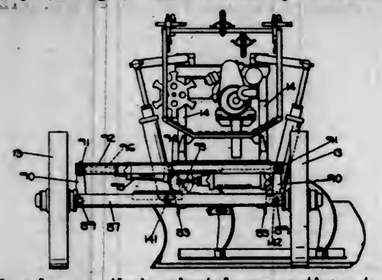
2,282,751
NAPKIN
Eugene A. Staples, Brooklyn, N. Y.
Application March 22, 1939, Serial No. 263,425
2 Claims. (Cl. 24—7)



1. A napkin of paper or other material including an attaching device comprising a normally flat relatively narrow piece of thin, pliable metal having a wide intermediate portion and tapering opposite ends and foldable transversely along a weakened line at said intermediate portion; said ends forming a pair of registering clamping jaws adapted to be folded together and embrace a part of the garment of the user together with a portion of the napkin therebetween, and attaching tongues struck up from said device at its said tapering ends and extending through the napkin for securing said ends separately to the napkin to hold the device in flat, extended form to the napkin.

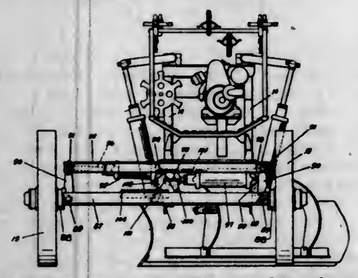
2,282,752
ROAD GRADER
Franklin E. Arndt, Galion, Ohio, assignor to The Galion Iron Works & Manufacturing Company, a corporation of Ohio
Original application February 2, 1933, Serial No. 654,901. Divided and this application June 18, 1938, Serial No. 214,599
1 Claim. (Cl. 37—157)

In a device of the class described, the combination with an axletree for a vehicle, of axles pivoted to said axletree on parallel axes, wheels journaled on said axles, parallel motion mechanism connecting said axles, and a reciprocating fluid-pressure motor pivotally connected at one end to said axletree and at its other end to said parallel motion mechanism to effect adjustment of the leaning of said wheels by movement of



said axles on their pivotal connections to said axletree.

2,282,753
ROAD GRADER
Franklin E. Arndt, Galion, Ohio, assignor to The Galion Iron Works & Manufacturing Company, a corporation of Ohio
Original application February 2, 1933, Serial No. 654,901. Divided and this application October 18, 1939, Serial No. 300,029
1 Claim. (Cl. 280—80)



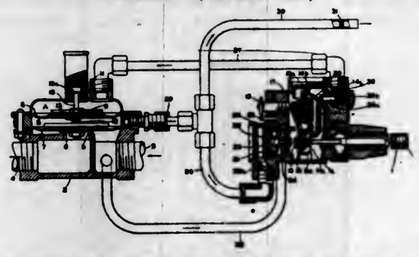
A vehicle comprising the combination with a supporting frame adjustable along an axletree having ground engaging supporting wheels at the ends thereof, spaced-apart rack bars one on said frame and the other on said axletree, a gear meshing with said rack bars, and a reciprocating fluid pressure motor connected at one end to said axletree and at its other end to said gear for bodily movement of the latter while said rack bars effect rotation thereof to shift laterally the rear end of said frame relatively to the said supporting wheels.

2,282,754
STABLE DRY PREPARATION FOR DIAGNOSTIC PURPOSES OF A BIOLOGICAL ANTIGEN EXTRACT AND A SUBSTANCE CAPABLE OF FORMING A BLOOD ISOTONIC SOLUTION
Friedrich-Wilhelm Bickert, Maribor - on - the-Lahn, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application February 5, 1938, Serial No. 188,927. In Germany February 6, 1937
5 Claims. (Cl. 167—78)

1. A stable dry preparation useful for diagnostic purposes and readily soluble or suspensible in water which comprises a biological antigen extract applicable in the method of fixing the complement and substantially insoluble in water selected from the group consisting of organic solvent extracts from animal hearts, livers and

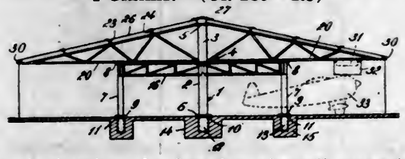
excitants of disease, and a water-soluble, physiologically indifferent substance capable of forming a blood isotonic solution in such a quantity as to yield a blood isotonic solution together with the dispersion liquid for the preparation, said preparation being obtained by adding such substance to the organic solvent extract, and drying the mixture.

2,282,755
COMBINED THERMOSTATIC VALVE MECHANISM
Carlton W. Bondurant, Euclid, and Elmer G. Steffen, Cleveland Heights, Ohio, assignors to The Titan Valve and Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application April 26, 1941, Serial No. 390,482
1 Claim. (Cl. 236—81)



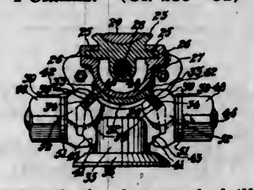
In combination, a valve casing having a gas inlet and outlet and a valve seat between them, a diaphragm valve coacting with said seat, a diaphragm in said casing spaced from said diaphragm valve and having a venting orifice therethrough and providing with said casing a first chamber on one side of said diaphragm and a second chamber on the other side of said diaphragm toward said diaphragm valve, said diaphragm engaging said valve to move it toward closed position upon a preponderance of pressure in said first chamber over said second chamber, means limiting movement of said diaphragm to a position short of that corresponding to fully closed position of said valve, a thermostat, a device controlled by said thermostat and having a gradually moving part and a snap acting part, a fluid tight housing for said device, a line communicating from said gas inlet to said housing, a valved outlet in said housing controllable by said gradually moving part, a connecting conduit between said valved outlet and said first chamber, a second valved outlet in said housing controllable by said snap acting part, a connecting conduit between said second valved outlet and said second chamber, a vent from said second named connecting conduit, and said vent having greater flow capacity than said orifice and having less capacity than said second valved outlet.

2,282,756
HANGAR
Hugh Curran, Bakersfield, Calif.
Application November 6, 1941, Serial No. 417,979
4 Claims. (Cl. 189—1.5)



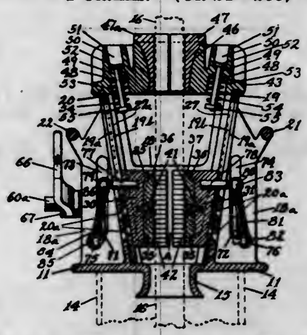
1. A structure for housing aircraft comprising a central mast, a plurality of similar radially disposed tapered roof-carrying lattice girders attached at their wide ends to said mast at elevations vertically spaced apart a substantial distance, said radial girders being positioned to extend outwardly from said mast at intervals equally spaced angularly around said mast and with their lower edges in a horizontal plane, a covering mounted on the upper edges of said radial girders and supported thereby, and auxiliary supporting means for said radial girders consisting of a vertical auxiliary column positioned under and extending upwardly to each alternate radial girder at a point positioned approximately midway between said central mast and the outer end of the radial girder, and horizontal lattice girders extending between and secured to the upper portions of adjacent auxiliary columns, whereby the upper edges of said horizontal lattice girders furnish auxiliary support for the lower edges of the radial girders disposed between the auxiliary supporting columns.

2,282,757
CLAMPING DEVICE
George H. Fuehrer, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application January 15, 1941, Serial No. 374,437
4 Claims. (Cl. 255—51)



1. A clamping device for a rock drilling mechanism having longitudinally extending guide ribs, comprising a body having seating surfaces for the guide ribs, clamps for clamping the guide ribs to the seating surfaces, and means on the clamps extending into the longitudinal plane of the body and cooperating with the body to prevent the clamps from rotating with respect to the body.

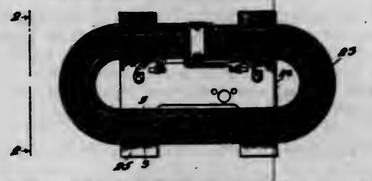
2,282,758
SPIDER FOR OIL AND GAS WELLS
Clarence J. Gallagher, Gridley, Kans.
Application April 8, 1940, Serial No. 328,429
4 Claims. (Cl. 24—263)



1. In a spider device for holding tubular objects; in combination, a housing element having a base thereon for the support of the spider device, track means arranged on opposite sides of, and within said housing and converging from

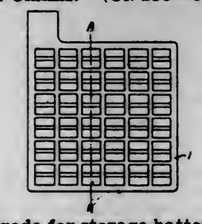
top to bottom, said track means being detachably attached to the housing element, and a plate on the top of, and attached to the housing element, said plate and base elements having an opening therethrough, said openings being concentrically positioned about the center axis of the housing, and removable means whereby an object may be moved sideways through the housing wall, plate and base elements into the housing and between jaw elements, a pair of jaw elements for engaging said tubular object, said jaw elements being attached one to each of the said track elements and being slidable vertically thereon, and registering vertically positioned slots in said track elements and the opposite side walls of the said housing, and means on said jaws and projecting through said slots for sliding said jaws, a plurality of bearings, said bearings being carried by, and positioned outside the housing and base element, a shaft, said shaft being horizontally and removably positioned in said bearings, and removable lever means on said shaft for rocking said shaft, and a pair of lever arms rigidly mounted on said shaft and positioned one on each side of said housing, and link elements connecting between the outer end of each of said rigidly mounted lever arms and their respective means on said jaws for sliding the jaws, and counterbalance means engaging said shaft for counterbalancing said jaws and lever arms.

2,282,759
ANTENNA LOOP
Lester E. Gavitt, West Brookfield, Mass., assignor to Gavitt Manufacturing Company, a corporation of Massachusetts
Application August 3, 1940, Serial No. 350,735
15 Claims. (Cl. 250—31)



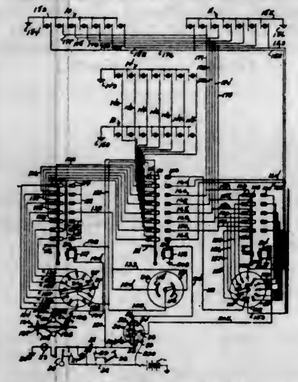
1. The method of adjusting the inductance of a wire coil of the flat generally spirally wound type which consists in crimping the coil across a plurality of turns thereof in an axial direction, to an extent to obtain the desired resultant inductance of the coil.

2,282,760
ELECTRODE
Anna P. Hazel, New York, N. Y., assignor to The Electric Storage Battery Company, Philadelphia, Pa., a corporation of New Jersey
Application July 22, 1939, Serial No. 285,857
2 Claims. (Cl. 136—64)



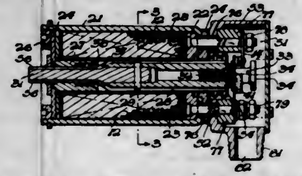
2. An electrode for storage batteries of the lead acid type, said electrode comprising a metallic support, said metallic support consisting of a lead alloy containing from 0.2 to 15 percent of antimony, and a metallic layer covering said support, said metallic layer consisting of a lead alloy containing substantially lead, about 0.1 percent tellurium and less than 0.2% of a metal more electropositive than lead.

2,282,761
AUTO VEHICLE SAFETY SIGNAL
Irvin G. H. Herwig, Ohlman, Ill.
Application August 8, 1939, Serial No. 289,074
7 Claims. (Cl. 177—337)



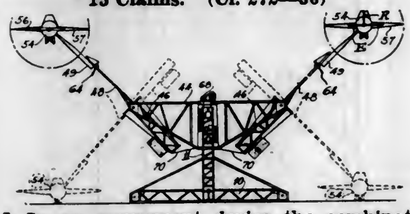
2. A vehicle signalling device comprising a power source; a pair of front right and left turn signalling banks of lamps, a rear signalling bank of lamps, and a dash mounted bank of indicator lamps; relays electrically connected to said lamps; electro-magnetic means for opening and closing said relays; a selector switch including a plurality of spaced contacts electrically connected with the relays and a continuously moving arm connected to the power source through the said relays sweeping said contacts for flashing the lamps; and a speed sensitive switch means electrically connected to the said electro-magnetic means, said last switch means being open when the vehicle is travelling at a relatively high rate of speed to prevent the electro-magnetic means from being energized and to maintain the relays in one position and being closed when the vehicle is travelling at a relatively low rate of speed to connect the electro-magnet with the power source and to throw the relay to a second position.

2,282,762
ELECTROMAGNETIC DEVICE
Francis M. Joseph, Cliffside Park, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application January 23, 1941, Serial No. 375,705
2 Claims. (Cl. 175—335)



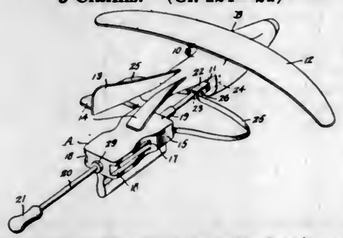
1. In a device of the character described, a spool of insulating material, a plurality of current conducting terminal posts embedded therein, a pair of windings on said spool, one of which is electrically connected between two of said posts, the other winding being connected between one of said first two posts and a third post, means normally establishing direct electrical connection between said two first-named terminal posts, thereby short-circuiting said first-named winding, upon current flow to one of said two first-named posts, by way of said third post and said second-named winding, means for causing such current flow, circuit-breaking means responsive to such current flow to break the direct electrical connection between two first-named terminal posts, and thus divert the current flow to a path which includes said first-named winding and places said first-named winding in series connection with said second winding, a housing for said windings and spool, and a second housing for said circuit-breaking means, said two housings being held together by means including said terminal posts.

2,282,763
AMUSEMENT DEVICE
Clifford F. Kennedy, Los Angeles, Calif.
Application September 27, 1939, Serial No. 296,793
15 Claims. (Cl. 272—36)



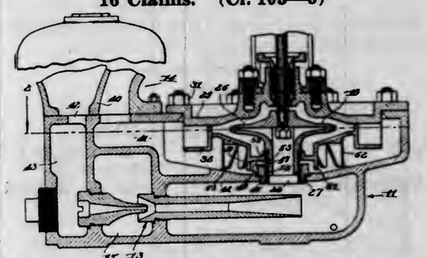
5. In an amusement device the combination with a rotating frame, of radially disposed arms mounted to swing on horizontal axes on said frame, a cradle mounted to swing on a substantially horizontal axis on the outer portion of each arm, which last mentioned axis is longitudinally disposed with respect to the radially disposed arm and the cradle carried thereby and an airplane-shaped carriage carried by said cradle.

2,282,764
TOY CATAPULT AND PROJECTILE
Robert Lazzari, Bronx, N. Y.
Application April 26, 1941, Serial No. 390,477
5 Claims. (Cl. 124—21)



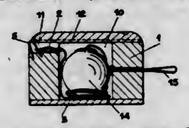
1. In a toy catapult, a handle having a centrally disposed longitudinal bore and side openings extending parallel to and located on opposite sides of the bore adjacent the forward end of the handle, a stem extending through the bore for guided sliding movement and adapted to support a projectile from the forward terminal thereof, a lateral outwardly bowed leaf spring extending through each side opening of the handle and having a lateral inwardly directed spur at the rear terminal thereof embedded in the handle and normally urged laterally inward by the inherent resiliency of the spring to anchor the rear end thereof to the handle, and means securing the forward terminal of each spring to the stem adjacent the forward end thereof, the side openings of the handle being of a size to permit of limited lateral movement of the springs.

2,282,765
PUMPING APPARATUS
John Mann, Seneca Falls, N. Y., assignor to Goulds Pumps, Inc., Seneca Falls, N. Y., a corporation of New York
Application May 23, 1941, Serial No. 394,838
16 Claims. (Cl. 103—5)



1. A unitary pumping system comprising a centrifugal pump having a rotatable impeller, a stationary casing having an outlet through which the impeller discharges, a stationary chamber into which that outlet empties and in which air and liquid separation may take place, said impeller having a suction inlet, and means for sealing said casing from said suction inlet comprising a sealing ring between the stationary chamber and the rotating impeller inlet.

2,282,766
TOY FOR SPORTS
Pierre Georges Miremont, Bayonne, France
Application September 6, 1939, Serial No. 293,539
In France September 8, 1938
2 Claims. (Cl. 273—58)

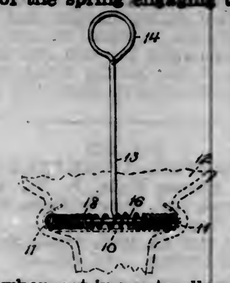


1. A toy for sports utilizing a ball connected by an elastic string to a fixed attaching means, and including a base having the attaching means secured to the upper portion thereof and having a convex form with a stable bottom, said base being designed interiorly beneath said attaching means for accommodating the ball and the elastic string for storage within the profile thereof, and a movable closure means disposed above said attachment means for retaining said ball and elastic string in said base.

2,282,767
FILTER HOLDER
Carl E. Peterson, Montclair, N. J., assignor to Eastern Tool & Mfg. Co., Bloomfield, N. J.
Application June 29, 1940, Serial No 343,075
2 Claims. (Cl. 210—162)

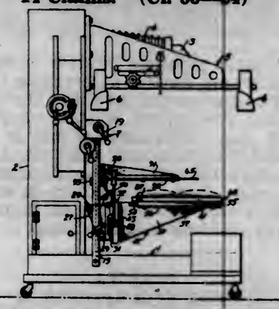
1. A filter holder comprising a stiff wire member having a vertical stem forming a handle and bent at the bottom into a radial arm and an annular ring with an overlapping end, and a resilient wire helical spring arranged around the ring

and enclosing the overlapping part aforesaid, the inner side of the spring engaging the inner side



of the ring when not in use to allow the spring to be compressed on insertion into a utensil.

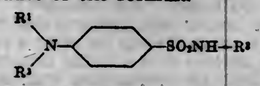
2,282,768
COPYHOLDER FOR DOCUMENT PHOTOGRAPHING CAMERAS
Frank M. Pickett, Darien, Conn., assignor to Remington Rand Inc., Buffalo, N. Y.
Application August 3, 1940, Serial No. 350,504
14 Claims. (Cl. 88—24)



1. A copyholder for a document photographing camera having a base and a housing thereon, comprising a pair of spaced parallel rails connected to said base and housing at opposite ends, a copy plate, means suspending said copy plate from said rails for adjustment in three directions, means providing limited movement of said copy plate back and forth between two spaced parallel positions in any position of adjustment of said first-mentioned means, a focusing plate, and means for selectively supporting said focusing plate on said rails and on said copy plate whereby said focusing plate and copy plate cooperate for book page photography when said focusing plate is mounted on said rails and to facilitate discrete document photography when said focusing plate is mounted on said copy plate.

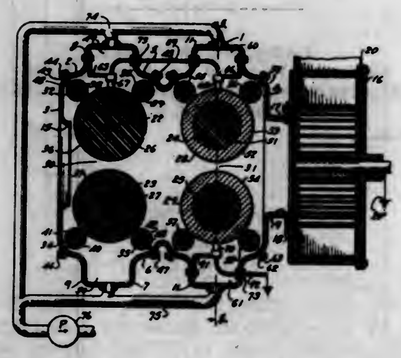
2,282,769
SULPHONIC ACID AMIDE COMPOUNDS AND MANUFACTURE THEREOF
Paul Pöhls, Wuppertal-Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application April 3, 1939, Serial No. 265,789. In Germany April 5, 1938
6 Claims. (Cl. 260—397.7)

1. A product of the formula



wherein R^1 stands for one of the substituents hydrogen and lower alkyl, R^2 stands for one of the substituents hydrogen, lower alkyl and the radicals of the lower aliphatic and benzene carboxylic acids and R^3 stands for a benzenesulphinic acid radical, which compounds are neutral products in the form of their salts with alkali- and alkaline-earth-metal, ammonia and amine bases.

2,282,770
APPARATUS FOR REMOVING FOREIGN PARTICLES FROM AIR OR SIMILAR GASEOUS MEDIUMS
Emmett F. Sarver, Kansas City, Mo., assignor of two-thirds to Alan Dunn Barr, Lakewood, Ohio
Application March 6, 1940, Serial No. 322,489
4 Claims. (Cl. 183—7)

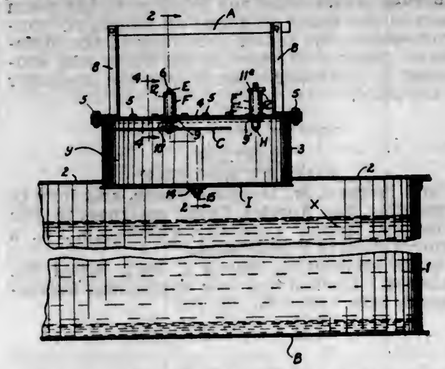


1. Apparatus of the character described, including a casing, a pair of drums rotatably supported in the casing and having cylindrical surfaces spaced apart to form a passageway therebetween, means having rubbing contact with the surfaces of the drums to effect charging of said surfaces, means contacting the drums for removal of foreign particles attracted to the charged surfaces of the drums, means contacting the charged surface of one of the drums at a point intermediate the charging and particle removing means to remove the charge from the drum, a second pair of drums having cylindrical surfaces spaced apart to form a passageway therebetween, means for conducting the charge from one of the first named drums to one of the last named drums, and means for grounding the other of said last named drums.

2,282,771
APPARATUS FOR GAUGING LIQUID CONTAINERS
John H. Wiggins, Chicago, Ill.
Application November 28, 1938, Serial No. 242,690
4 Claims. (Cl. 33—126.5)

1. The combination of a gas-tight liquid container, a gauging device inside of said container, a tape for actuating said gauging device, a guide on the container through which said tape travels or passes, a removable stopper in said guide provided with a slot in which said tape travels when the gauging device is being used, and a

portion on the gauging device that is adapted



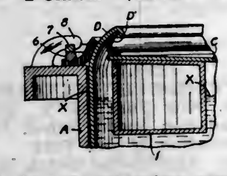
to enter said guide and seal same when said gauging device is not in use.

2,282,772
PONTOON TYPE FLOATING ROOF FOR LIQUID STORAGE TANKS
John H. Wiggins, Chicago, Ill.
Application April 15, 1939, Serial No. 268,005
1 Claim. (Cl. 220—26)



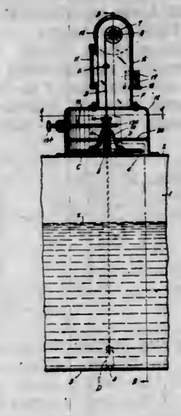
A floating roof for liquid storage tanks, comprising a stiff annular peripheral pontoon, a single deck portion constructed in the form of a flexible diaphragm, attached to the said pontoon adjacent the upper edge thereof, and sloped downwardly towards the center of the roof, and radially-arranged tension members, each having one end attached to said single deck portion at a point inwardly spaced from said pontoon and having the other end attached to said pontoon, at a point substantially at the bottom of said pontoon, for maintaining said deck portion in a downwardly sloped position, under all conditions of pressure in the gas space between the roof and the liquid in the tank.

2,282,773
SEAL FOR FLOATING ROOFS
John H. Wiggins, Chicago, Ill.
Original application April 1, 1939, Serial No. 265,432. Divided and this application October 4, 1939, Serial No. 297,800
1 Claim. (Cl. 220—26)



A liquid storage apparatus, comprising a tank having a vertical side wall, a floating roof adapted to be normally sustained by the liquid in the tank, a primary seal mounted on the roof at the peripheral edge of same and comprising an annular side wall shoe arranged to slidingly engage the tank side wall, said shoe projecting above the top edge of the tank side wall when the roof is at or adjacent its extreme uppermost position, and an annular flexible auxiliary seal carried by the tank side wall at its upper edge and projecting inwardly therefrom into the path of the side wall shoe of the primary seal, thereby sealing the upper end of the gas space between said shoe and tank side wall, when the roof is at or adjacent its extreme uppermost position.

2,282,774
GAUGING APPARATUS FOR LIQUID CONTAINERS
John H. Wiggins, Chicago, Ill.
Application March 2, 1940, Serial No. 321,827
13 Claims. (Cl. 73—309)

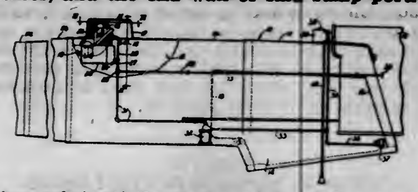


4. An apparatus for gauging liquid confined in a container, comprising a flexible measuring element adapted to be lowered into the liquid in the container, a datum point located outside of the liquid, a plumb bob attached to the measuring element for holding it taut during the operation of measuring the distance between the datum point and the bottom of the container, and a telltale supported by said plumb bob when the telltale is in use and adapted to be submerged in the liquid and drawn upwardly to the surface of the liquid in the operation of measuring the distance between the datum point and the surface of the liquid, said telltale being so constructed that if the measuring element is subjected to a slight upward pull when said telltale is located at approximately the surface of the liquid, the coaction of said telltale with the liquid will create a counteracting force that opposes the upward pull on the measuring element and which is utilized to assist or cause the measuring element to be set in correct reading position.

2,282,775
BOILER WATER CONDITIONER AND BLOWOFF SYSTEM
Lewis O. Gunderson and Oland W. Carrick, Chicago, Ill., assignors to Electro-Chemical Engineering Corporation, Chicago, Ill., a corporation of Delaware
Application February 2, 1939, Serial No. 254,176
16 Claims. (Cl. 122—381)

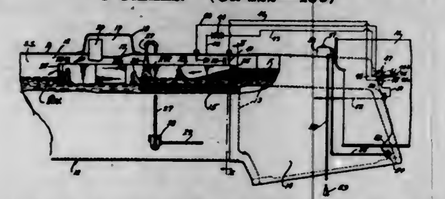
1. A collecting device for boilers comprising an elongated open top pan having flanges extending from the side walls adapted to be secured to the inner face of a boiler shell at the top of a boiler, said pan having an inlet opening at one end thereof and a sump portion at the other end

thereof, and the end wall of said sump portion



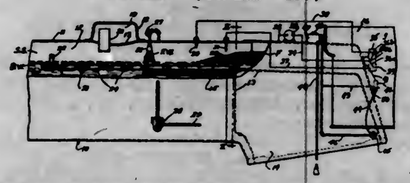
being substantially U-shaped to define spaced legs along the sides of the sump.

2,282,776
FEED WATER AND BLOWOFF SYSTEM FOR BOILERS
Lewis O. Gunderson, Park Ridge, Ill., assignor to Electro-Chemical Engineering Corporation, Chicago, Ill., a corporation of Delaware
Application March 11, 1940, Serial No. 323,370
6 Claims. (Cl. 122—436)



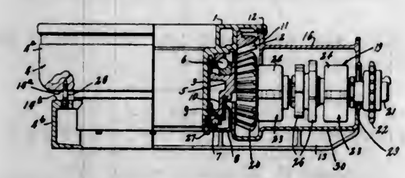
1. In a locomotive boiler including a boiler shell defining an elongated boiler course, a fire box in one end of the boiler shell, and a steam dome on the top of the boiler shell in communication with the boiler course in spaced relation from the fire box, the improvement which comprises an imperforate elongated open topped and open ended trough extending along the boiler course and beneath the steam dome from a point adjacent the fire box to a point forward of the steam dome and having the imperforate bottom thereof submerged below the normal water level in the boiler course, and side walls on said trough projecting from said bottom into the steam space of the boiler in spaced relation beneath the top of the boiler shell, said trough defining a localized separate course within the main boiler course for the flow of water and foam from the fire box end of the boiler to a point ahead of the steam dome.

2,282,777
FOAM INHIBITOR APPARATUS FOR BOILERS
Lewis O. Gunderson, Park Ridge, Ill., assignor to Electro-Chemical Engineering Corporation, Chicago, Ill., a corporation of Delaware
Application March 15, 1940, Serial No. 324,149
8 Claims. (Cl. 122—459)



1. In a steam boiler having a steam outlet in the top thereof, a steam space for supplying steam to the outlet and a water space beneath the steam space, the improvement which comprises an imperforate foam inhibitor plate mounted flatwise in the water space of the boiler under the steam outlet and adjacent to the steam space of the boiler to define an elongated non-steam-generating course extending in the direction of major water flow in the boiler and submerged in the water space around the perimeter of the plate.

2,282,778
ROTARY MACHINE
John S. Morgan, Jr., Hermosa Beach, and John D. Spalding, Los Angeles, Calif., assignors to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Original application March 1, 1937, Serial No. 128,468. Divided and this application December 5, 1939, Serial No. 307,626
2 Claims. (Cl. 255—23)



1. In a rotary machine of the enclosed type, the combination of an upper base member having an annular upstanding wall, a table rotatably mounted on thrust bearings carried by said member and cooperating with the upstanding wall to form an annular chamber within the wall, a gear on the table within the chamber, a shaft having a pinion thereon adapted to drive the gear, bearings for rotatably supporting the shaft, a laterally extending drive shaft housing integrally joined to said annular upstanding wall below the upper limit thereof, a lower base member comprising an integral structure including parallel skid elements extending adjacent and parallel to the drive shaft housing, an oil retaining closure member extending between the skid elements below the drive shaft housing, a horizontal supporting flange surface on the lower base member, a mating surface on the upper base member adapted to rest on said flange surface and to be detachably secured thereto, the laterally extending drive shaft housing and the oil retaining closure member being provided with cooperating parts adapted to meet along a horizontal joint when said mating surface and supporting flange surface are in contact, the shaft, pinion, and bearings being enclosed between the drive shaft housing and the oil retaining closure, whereby they may be removed in a direction transverse to the shaft axis upon separation of the upper and lower base members.

2,282,779
METHOD OF PRODUCING GLYCERIDE OIL
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application March 18, 1942, Serial No. 435,245
11 Claims. (Cl. 260—412.2)

1. A process of producing a novel olive oil in highly stabilized condition and highly resistant to oxidative deterioration, which comprises curing olives thoroughly with common salt until the flesh of the olives has taken up a substantial amount of salt, and then expressing such salt cured olives to produce said oil.

2,282,780
STABILIZED OLIVE OIL BLENDS WITH UNUSUAL TASTE AND FRAGRANCE
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application November 12, 1941, Serial No. 418,843
8 Claims. (Cl. 99—163)

1. A process of producing a novel stabilized oil which comprises thoroughly salting, shriveling and dehydrating olives, expressing said dehydrated, salted, shriveled olives to produce an oil therefrom, and then mixing said oil in a minor amount with a major amount of an oil selected from the group consisting of the glyceride oils and refined white petrolatum oil.

2,282,781
IMITATION OLIVE OIL
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application August 13, 1941, Serial No. 406,649
9 Claims. (Cl. 99—123)

1. A process of improving oils selected from the group consisting of the olive infused glyceride and refined white mineral oils and the olive oil blended glyceride oils so as to develop therein an enhanced olive flavor, which comprises treating said oils with a small amount of a ground drupe, and then filtering off the residue.

2,282,782
ENHANCED OLIVE FLAVORED OIL
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application January 9, 1942, Serial No. 426,229
9 Claims. (Cl. 99—123)

1. A method of enhancing an olive flavor in an oil selected from the group consisting of the olive infused and olive oil blended glyceride and refined white mineral oils, which comprises adding thereto a small amount, less than 75 parts per million, of benzaldehyde.

2,282,783
PROCESS OF EXPLODING VEGETATIVE MATERIALS
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application May 6, 1941, Serial No. 392,104
13 Claims. (Cl. 99—82)

1. The method of preparing novel steam exploded materials which comprises subjecting a vegetative material selected from the group consisting of the cereals, cereal germs, legumes, nuts and oil containing seeds to an elevated temperature and pressure while in acidified condition of between pH 3 and pH 6, and instantaneously releasing such pressure, whereby steam explosion of the material is obtained.

2,282,784
EXPLODED ANTIOXYGENIC FOOD COMPOSITION
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application April 23, 1940, Serial No. 331,184
10 Claims. (Cl. 99—150)

1. A method of treating food compositions to stabilize them against oxidative deterioration which comprises adding thereto a relatively small proportion of a material selected from the group consisting of the finely divided steam exploded cereals, cereal germs, nuts and oil containing seeds and their water and alcohol soluble extracts, said material having been exploded at a pH between 3 and 5.7.

2,282,785
STABILIZED EMULSION OF VITAMIN CONTAINING VEGETATIVE MATERIALS IN MOLASSES
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application April 22, 1940, Serial No. 330,985
11 Claims. (Cl. 99—153)

1. A method of stabilizing vitamin containing vegetative materials selected from the group consisting of cereal grasses, forage grasses, cereal germs and embryos and their oil soluble vitamin containing extracts which comprises dispersing a relatively minor amount of said materials in a major amount of molasses, the molasses occupying the continuous aqueous phase.

2,282,786
STABILIZATION OF ANIMAL MEALS
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application April 23, 1940, Serial No. 331,179
7 Claims. (Cl. 99—169)

1. A method of stabilizing the vitamin A and fatty and protein content of a meal selected from the group consisting of meat meal and fish meal against oxidative deterioration, which comprises dispersing the meal in finely divided form through a large body of molasses.

2,282,787
STABILIZATION OF FOOD COMPOSITIONS
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application March 11, 1942, Serial No. 434,253
8 Claims. (Cl. 99—11)

1. A substantially stabilized food product comprising a dispersion of a minor amount of a vitamin containing glyceride oil in a major amount of dilute sulphurous acid extract of corn, said extract containing in excess of 40% total corn extract solids.

2,282,788
DRY STABLE FOOD COMPOSITION
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
Application March 11, 1942, Serial No. 434,203
8 Claims. (Cl. 99—11)

1. A process of producing dry stabilized food compositions which comprises forming a dispersion of a minor amount of an oil soluble vitamin concentrate in a major amount of molasses, drying wheat bran normally having in excess of 8% moisture to less than 3% moisture and then combining said dried wheat bran with a minor amount of said molasses dispersion whereby the

molasses is absorbed and converted into dry form and there is obtained a homogeneous, dry, stable vitamin containing food composition.

2,282,789
STABILIZED FOOD PRODUCT
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application March 11, 1942, Serial No. 434,264
8 Claims. (Cl. 99—11)

1. A substantially stabilized food product comprising a dispersion of a minor amount of an oil soluble vitamin containing composition in a major amount of concentrated caramelized milk-solids-not-fat, said oil soluble vitamin containing composition being substantially stabilized against oxidative deterioration.

2,282,790
STABILIZATION OF GLYCERIDE OILS
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application April 23, 1940, Serial No. 331,185
6 Claims. (Cl. 260—398.5)

1. A substantially stabilized glyceride oil composition comprising a dispersion of a minor amount of a glyceride oil in a major amount of concentrated caramelized milk-solids-not-fat, said glyceride oil being substantially stabilized against oxidative deterioration.

2,282,791
STABILIZATION OF FISH AND SIMILAR OILS
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application April 23, 1940, Serial No. 331,178
13 Claims. (Cl. 260—428)

1. A method of stabilizing cod liver oils containing their normal complements of protein and phosphatide bodies removed with the rendering of the cod liver oils which comprises subjecting such oils to a dry heat treatment of at least about 250° F. and not in excess of about 375° F. whereby enhanced stabilization against rancidity and oxidative deterioration is obtained.

12. A method of producing a highly stable vitamin concentrate, which comprises heating crude vitamin containing fish oils to between 250° F. and 375° F. under an inert gas and then removing the unsaponifiable fraction thereof.

2,282,792
STABILIZATION OF GLYCERIDE OILS
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application February 4, 1942, Serial No. 429,506
7 Claims. (Cl. 260—398.5)

1. A method of stabilizing glyceride oils which comprises dispersing a minor amount of said glyceride oil in a major amount of a combination of molasses and a yeast material selected from the group consisting of inactivated yeast and its water and alcohol soluble extracts.

2,282,793
FOOD
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application November 30, 1939, Serial No. 306,815
8 Claims. (Cl. 99—163)

1. A method of treating food compositions to stabilize them against oxidative deterioration which comprises adding thereto a relatively small proportion of a material selected from the group consisting of inactivated yeast and its water and alcohol soluble extracts.

2,282,794
STABILIZATION OF DAIRY COMPOSITIONS
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Original application November 30, 1939, Serial No. 306,815. Divided and this application February 4, 1942, Serial No. 429,505
10 Claims. (Cl. 99—151)

1. A method of treating dairy compositions subject to oxidative deterioration to stabilize them against oxidative deterioration which comprises adding thereto a relatively small proportion of a yeast material selected from the group consisting of inactivated yeast and its water and alcohol soluble extracts.

2,282,795
VITAMIN PRODUCT
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application February 27, 1942, Serial No. 432,645
6 Claims. (Cl. 260—412.1)

1. A method of extracting a stable vitamin containing oil from dehydrated animal livers which comprises grinding said livers in low moisture condition with an oil selected from the group consisting of the glyceride oils and mineral oil to form an oily viscous paste containing in excess of about 30% total solids other than oil and until the oil has been extracted from said dehydrated livers and then expressing the oil from the solids, whereby there is produced a high quality and highly stable oil.

4. A stable glyceride oil carrying the oil soluble constituents of a finely divided oily paste of dehydrated animal livers, extracted after grinding of the glyceride oil with the dehydrated animal livers, said paste containing in excess of about 30% total solids other than oil.

2,282,796
VITAMIN PRODUCT
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Original application December 22, 1939, Serial No. 310,555. Divided and this application November 22, 1941, Serial No. 420,131
9 Claims. (Cl. 260—412.8)

1. A method of extracting a vitamin containing oil from fodder and forage legumes and grasses which comprises grinding said legumes and grasses in low moisture condition with an oil selected from the group consisting of the glyceride oils and mineral oil to form an oily viscous

paste containing in excess of about 30% total solids until the oil has been extracted from said legumes and grasses and then expressing the oil from the solids, whereby there is produced a high quality and highly stable oil.

4. A highly stabilized glyceride oil carrying the oil soluble constituents of a finely divided oily paste of low moisture containing fodder and forage legumes and grasses, extracted after prolonged grinding of the glyceride oil with the fodder and forage legumes and grasses, said paste containing in excess of about 25% total solids.

2,282,797
MANUFACTURE OF CEREAL GERM OIL
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application December 22, 1939, Serial No. 310,555
12 Claims. (Cl. 260—412.4)

1. A method of extracting an oil from a cereal germ, which comprises grinding said cereal germ in low moisture condition with an oil selected from the group consisting of the glyceride oils and mineral oil to form an oily viscous paste containing in excess of about 35% total solids until the oil has been extracted from said cereal germ and then expressing the oil from the solids whereby there is produced a high quality and highly stable oil.

4. A highly stabilized glyceride oil carrying the oil soluble constituents of a finely divided oily paste of a low moisture containing cereal germ, extracted after prolonged grinding of the glyceride oil with the cereal germ, said paste containing in excess of about 35% total solids.

2,282,798
STABILIZATION OF FOODS AND OILS
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application November 27, 1939, Serial No. 306,325
8 Claims. (Cl. 99—163)

1. A process of stabilizing a food composition subject to oxidative deterioration against such deterioration, which comprises adding thereto a relatively small amount of a product selected from the group consisting of the finely divided sprouted and germinated cereals, sprouted and germinated cereal germs and sprouted and germinated seeds and their water and alcohol soluble extracts.

2,282,799
STABILIZATION OF DAIRY PRODUCTS
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application March 12, 1942, Serial No. 434,390
7 Claims. (Cl. 99—151)

1. A method of treating dairy compositions subject to oxidative deterioration to stabilize them against such deterioration, which comprises adding thereto a relatively small amount of a product selected from the group consisting of the finely divided sprouted and germinated cereals, sprouted and germinated cereal germs, sprouted and germinated seeds, and their water and alcohol soluble extracts.

2,282,800
STABILIZATION AGAINST OXIDATION BY USE OF CARAMELIZED MILK SOLIDS
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application April 23, 1940, Serial No. 331,181
8 Claims. (Cl. 99—163)

1. The process of stabilizing a glyceride oil containing composition which comprises adding thereto a relatively small proportion of caramelized milk-solids-not-fat.

2,282,801
STABILIZATION OF FRUITS AND VEGETABLES
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application April 23, 1940, Serial No. 331,180
6 Claims. (Cl. 99—154)

1. A process of stabilizing materials selected from the group consisting of fruits and vegetables against oxidative deterioration, which comprises treating them with a relatively small amount of caramelized milk-solids-not-fat.

2,282,802
TREATMENT OF COFFEE BEANS
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application April 23, 1940, Serial No. 331,182
5 Claims. (Cl. 99—152)

1. A process of producing a stabilized roasted coffee product which comprises applying to the roasted coffee immediately following roasting and while the coffee beans are at a temperature in excess of 250° F. a small amount of caramelized milk-solids-not-fat in aqueous dispersion, whereby the coffee is substantially stabilized against staleness.

2,282,803
STABILIZED HEAT REACTED CEREAL FLAKES
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application April 22, 1940, Serial No. 330,984
5 Claims. (Cl. 99—153)

1. A method of producing stabilized, dried, cereal flaked products which comprises adding to a cereal in aqueous dispersion a relatively small proportion of caramelized milk-solids-not-fat, heating to over 180° F., running out the cereal product containing the milk-solids-not-fat in flaked form, and then drying the flaked cereal product containing the milk-solids-not-fat at a temperature between 375° F. and 625° F.; said cereal being selected from the group consisting of oats, wheat, corn and rice, said cereal flaked products being substantially stabilized against oxidative deterioration.

2,282,804
HEAT TREATED STABILIZED FLAKED CEREAL GERM PREPARATION
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application April 22, 1940, Serial No. 330,986
4 Claims. (Cl. 99—153)

1. A process of making a stabilized flaked cereal germ preparation which comprises heating the cereal germ with a relatively small proportion of caramelized milk-solids-not-fat, and then subjecting to a further heat treatment of between about 400° F. and 600° F. whereby a substantially stabilized cereal germ preparation is obtained.

2,282,805
STABILIZED COMBINATIONS OF RICE AND SIMILAR POLISHINGS AND WHEY OR SIMILAR MILK-SOLIDS-NOT-FAT
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application April 22, 1940, Serial No. 330,987
5 Claims. (Cl. 99—153)

1. A process of making a stabilized vegetable polish preparation which comprises dispersing the vegetable polish in aqueous caramelized milk-solids-not-fat, said preparation including a relatively small proportion of the milk-solids-not-fat with respect to the vegetable polish solids, said vegetable polish preparation being substantially stabilized against oxidative deterioration.

2,282,806
TREATMENT OF OILS
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application July 31, 1940, Serial No. 348,825
9 Claims. (Cl. 260—398.5)

1. A process of stabilizing oils subject to oxidative deterioration whereby they become less subject to such deterioration, which comprises adding thereto and dispersing therein a small amount of a finely divided seed and heating to in excess of 250° F.

2,282,807
TREATMENT OF RENDERED GLYCERIDE OILS
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Original application July 31, 1940, Serial No. 348,825. Divided and this application February 27, 1942, Serial No. 432,646
6 Claims. (Cl. 260—398.5)

1. A process of rendering fatty animal products which comprises adding a small amount of a finely divided seed to a fat containing animal product, subjecting the combination to an elevated temperature of at least 250° F., followed by removing the fat which will be in substantially stabilized condition.

2,282,808
STABILIZATION OF ESSENTIAL OILS
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Original application September 23, 1938, Serial No. 231,344. Divided and this application November 22, 1941, Serial No. 420,132
7 Claims. (Cl. 260—236.6)

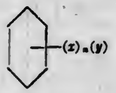
6. The process of stabilizing essential oils which comprises homogenizing said essential oils in a carbohydrate containing, fiber free and starch free extract of a cereal, said extract extracted by a solvent selected from the group consisting of water and alcohol from a finely divided, ray, unbleached, low oil and low lecithin containing cereal, said emulsion being subjected to an elevated temperature, at least about 250° F.

2,282,809
STABILIZATION OF OILS
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application July 18, 1940, Serial No. 346,145
9 Claims. (Cl. 260—398.5)

1. A process of stabilizing oils subject to oxidative deterioration whereby they become less subject to such deterioration which comprises dispersing a small amount of a material selected from the group consisting of the finely divided spice residues and their alcohol soluble extracts in the oil and heating the oil to a temperature in excess of 250° F.

2,282,810
METHOD FOR STABILIZING OILS
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application July 31, 1940, Serial No. 348,823
10 Claims. (Cl. 260—398.5)

1. A process of stabilizing oils subject to oxidative deterioration, whereby they become less subject to such deterioration, which comprises adding thereto and dispersing therein a small amount of a water soluble carbohydrate and a small amount of a compound having the general formula



where x is a radical selected from the group consisting of OH, alkoxy, NH_2, COOH, CHO, CO and alkyl chains including the same, where n is at least 2 and where y is a radical selected from the group consisting of hydrogen, aryl, alkoxyl, aralkyl, alpharyl, amino, sulpho, aldo, keto and alkyl chains including the same, and heating to in excess of 250° F.

2,282,811
PRESERVATION OF OILS
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application November 25, 1940, Serial No. 367,008
9 Claims. (Cl. 260—398.5)

1. A process of stabilizing oils subject to oxidative deterioration whereby they become less subject to such deterioration, which comprises adding thereto and dispersing therein a small amount of a trihydroxy aryl compound and heating to in excess of 250° F.

2,282,812
STABILIZATION OF OILS
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application July 31, 1940, Serial No. 348,824
9 Claims. (Cl. 260—398.5)

1. A process of stabilizing oils subject to oxidative deterioration whereby they become less subject to such deterioration, which comprises adding thereto and dispersing therein a small amount of a water soluble carbohydrate and a small amount of a compound selected from the group consisting of the polycarboxy aliphatic acids and their salts, and heating to in excess of 250° F.

2,282,813
STABILIZED OIL
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Original application July 31, 1940, Serial No. 348,824. Divided and this application February 25, 1942, Serial No. 432,264
9 Claims. (Cl. 260—398.5)

1. A process of stabilizing oils subject to oxidative deterioration whereby they become less subject to such deterioration, which comprises adding thereto and dispersing therein a small amount of a combination of a material selected from the group consisting of the phosphatides, phosphoric acid and the salts of phosphoric acid and a compound selected from the group consisting of the polycarboxy aliphatic acids and their salts, and heating to in excess of 250° F.

2,282,814
STABILIZATION OF OILS
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application July 31, 1940, Serial No. 348,827
10 Claims. (Cl. 260—398.5)

1. A process of stabilizing oils subject to oxidative deterioration, whereby they become less subject to such deterioration, which comprises adding thereto and dispersing therein a small amount of a water soluble carbohydrate and a small amount of a compound selected from the group consisting of the proteins and amino acids, and heating to in excess of 250° F.

2,282,815
STABILIZATION OF OILS
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Original application July 31, 1940, Serial No. 348,827. Divided and this application February 25, 1942, Serial No. 432,265
9 Claims. (Cl. 260—398.5)

1. A process of stabilizing oils subject to oxidative deterioration, whereby they become less subject to such deterioration, which comprises adding thereto and dispersing therein a small amount of a combination of a material selected from the group consisting of the phosphatides, phosphoric acid and the salts of phosphoric acid and an organic nitrogen compound selected from the group consisting of the proteins and amino acids, and heating to in excess of 250° F.

2,282,816
RETARDING DECOMPOSITION OF OILS
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application April 8, 1939, Serial No. 266,856
8 Claims. (Cl. 260—398.5)

1. An antioxygenic preparation comprising substantially fibre free, vacuum concentrated soluble antioxygens extracted from substantially deoiled, finely ground peanut germ, said antioxygens being soluble in a solvent selected from the group consisting of water and alcohol and differing from lecithin in containing water soluble carbohydrates and in being capable of retaining and increasing their antioxygenic activity when heated in excess of 175° F. after addition to an organic material subject to oxidative deterioration, said preparation when added serving to retard such deterioration, said preparation being substantially identical with that produced by mixing deoiled, finely ground peanut germ with a much larger quantity of one of said solvents at a temperature above room temperature and below the boiling point of the solvent, separating the undissolved residue, and concentrating the clarified liquid by vacuum evaporation.

3. A method for stabilizing glyceride oil containing compositions against decomposition upon storage which comprises adding to and dispersing in such oil a small amount, less than 5%, of a stabilizing agent selected from the group consisting of finely divided unbleached peanut germ and the water and alcohol soluble extracts described in claim 1.

2,282,817
TREATMENT OF REFINED WET PROCESSED CORN GERM OIL
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application January 8, 1941, Serial No. 373,609
11 Claims. (Cl. 260—398.5)

1. A process of protecting glyceride oils selected from the group consisting of refined soya oil and refined wet processed corn germ oil against reversion after deodorizing which comprises adding thereto a small proportion of crude dry processed corn germ oil.

2,282,818
STABILIZED FOOD COMPOSITION
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application June 25, 1940, Serial No. 342,288
7 Claims. (Cl. 99—153)

1. A novel stabilized food composition comprising a macerated combination of a cereal germ and a salt cured material selected from the group consisting of sesame seeds and peanuts whereby the cereal germ is substantially stabilized against oxidative deterioration.

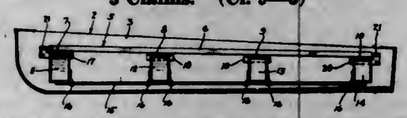
2,282,819
TREATMENT OF HYDROGENATED OILS
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application May 13, 1940, Serial No. 334,899
6 Claims. (Cl. 99—123)

1. A hydrogenated shortening composition, having a desirable flavor and odor and improved frying and baking characteristics, carrying thoroughly dispersed therethrough a small amount of a salt cured macerated legume selected from the group consisting of peanuts and soya beans.

2,282,820
PEANUT AND SOYA BEAN OIL
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application January 28, 1942, Serial No. 428,500
5 Claims. (Cl. 260—412.2)

1. A process of producing novel stabilized glyceride oils which comprises curing a legume selected from the group consisting of peanuts and soya beans with common salt, and then expressing to remove an oil which is in highly stabilized condition.

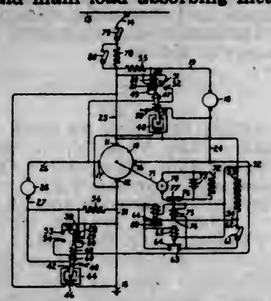
2,282,821
LIFESAVING APPARATUS FOR BOATS
Aaron A. Nelson, Little Falls, Minn.
Application March 28, 1940, Serial No. 326,409
3 Claims. (Cl. 9—3)



3. In combination with a boat having side walls curved in a direction lengthwise thereof and a bottom, a life-saving structure adapted to be removably and loosely supported therein, said structure comprising opposed side hand rails of small cross section shaped to conform substantially to the contour of the side walls of the boat in a direction lengthwise thereof, a plurality of seat members secured to said side rails and extending transversely of the boat, buoyant means secured beneath said seat members, the lower surface of said buoyant means being shaped to conform generally to the contour of the side walls and bottom of the boat in a transverse direction thereof, an elongated reinforcing member secured to the intermediate bottom portions of the buoyant members and extending substantially the length of the structure, whereby should the boat capsize said structure may readily become detached and separated from the boat, said elongated member being of such width as to constitute a seat for the occupants of the capsized boat.

2,282,822
POWER SYSTEM INCLUDING ROTARY TRANSFORMER
Joseph M. Pestarini, Turin, Italy
Application February 26, 1941, Serial No. 380,656
20 Claims. (Cl. 172—239)

1. In combination with a metadyne transformer having a primary set of brushes and a secondary set of brushes, a pair of driving motors, means for connecting said motors in figure 8 connection to said metadyne transformer primary and secondary brushes, a main load absorbing means, and voltage responsive means for connecting said main load absorbing means in circuit across said transformer primary brushes when said primary brush voltage exceeds a predetermined value.



2,282,823
BODY CONSTRUCTION
Emil H. Piron, New York, N. Y., assignor to Transit Research Corporation, a corporation of New York
Application March 15, 1939, Serial No. 262,033
2 Claims. (Cl. 105—397)



1. In a car body, a longitudinal belt rail, posts arising from said belt rail, roof and ceiling members formed of sheeting secured to inner and outer edges of the upper portions of said posts with the roof member curving tangentially from the outer surfaces of the posts over and above the posts, said roof and ceiling sheeting together forming an air duct, said posts being hollow and constituting air ducts for circulating air through the belt rail and first named duct, and sash guides on said posts with their upper ends spaced from the roof and ceiling members and inclined with respect to said outer surfaces of said posts and in the direction of curvature of said roof member, said sash guides being so inclined as to guide a sash into the space between the roof and ceiling sheeting for a distance at least equal to the expected opening movement of the sash.

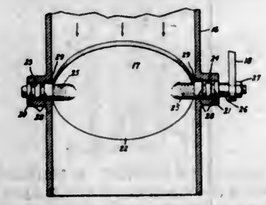
2,282,824
KNITTING MACHINE NEEDLE
Joseph P. Primm, Rome, Ga., assignor of one-half to Rome Hosiery Mills, Rome, Ga., a corporation of Georgia
Application June 4, 1941, Serial No. 396,617
4 Claims. (Cl. 66—121)

1. A knitting needle comprising a shank having a throat terminating in a hook with which to loop a yarn strand into a stitch, said hook having an extremity of a lateral dimension differing from the diametrical size of the throat and hook and being provided with an elongated recess on its outer perimeter, said recess extending from a point adjacent the top of the hook to the free



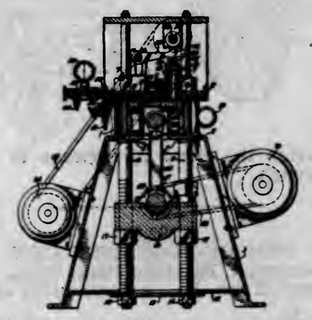
end, and a latch pivoted at one end to the shank, having a free end which is of less thickness than the throat and being adapted to seat in the recess and be confined therein so that the combined outer faces of the hook and free end of the latch will present a smooth surface to the thread.

2,282,825
VALVE SUPPORT
Samuel R. Puffer, Lynnfield Center, Mass., assignor to General Electric Company, a corporation of New York
Application January 18, 1940, Serial No. 314,495
4 Claims. (Cl. 308—121)



1. The combination with a conduit for conducting combustion gases containing unburned carbon and a movable element disposed within the conduit for controlling the flow of gases therethrough, of means for supporting the element, said means including trunnions secured to diametrically opposite portions of the element and journal bearings fastened to the conduit with bearing surfaces engaging the trunnions, each trunnion having a plurality of spaced annular grooves initially filled with luricant consisting substantially of graphite for lubricating the bearings during the starting period, and each bearing having a groove in its surface communicating with the interior of the conduit and arranged to receive carbon particles from the gases flowing through the conduit to lubricate the bearings during normal operation.

2,282,826
FATIGUE TESTING MACHINE
Edward V. Rippingille, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 13, 1939, Serial No. 303,962
1 Claim. (Cl. 265—14)



A fatigue testing machine for applying a cyclically varying load at high frequency to a part to be tested, comprising a cylinder, a piston in the cylinder, means for connecting the part to be tested between the piston and another part of the machine, a pump for pumping fluid into the clearance space between the piston and the cylinder head, and means for measuring the pressure therein; said pump being of the plunger type with combined inlet and relief ports controlled by the plunger to relieve the cylinder pressure at the end of each stroke.

2,282,827
RESINOUS PRODUCT AND METHOD OF MAKING
Henry S. Rothrock, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 13, 1939, Serial No. 304,265
22 Claims. (Cl. 260—22)

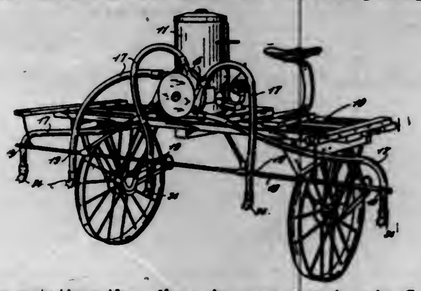
13. Process which comprises treating an alkyd resin with a compound having a plurality of groups of the formula —NCX, where X is an element of group VI of the periodic table and has an atomic weight less than 33.

14. Process according to claim 13 in which the initial alkyd resin is soluble and the treatment is accompanied or followed by heating at a temperature and for a time insufficient to cause gelation of the resin.

2,282,828
NOZZLE FOR DUSTING MACHINES
Ralph R. Root, Lakewood, Ohio, assignor to The Root Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application April 10, 1941, Serial No. 387,923
5 Claims. (Cl. 43—148)

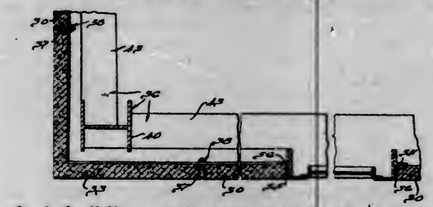
1. In apparatus of the character described, a conductor for dust-laden air, a rotatably mounted spreader at the end of said conductor, said spreader comprising an elbow having partition means dividing the same into a plurality of passages arranged to receive air from said conductor and adapted to deflect the air laterally, and

vane means at the outer end of said passages



for rotating the elbow in response to air flow therethrough.

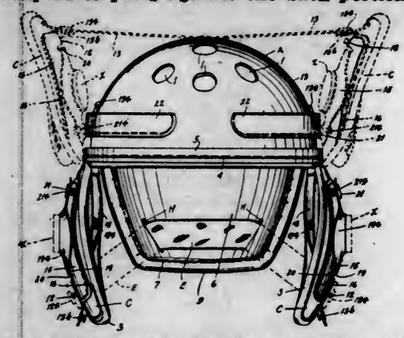
2,282,829
BUILDING CONSTRUCTION
John Schurman, Highland Park, Mich., assignor to Albert Kahn, Inc., a corporation of Michigan
Application June 23, 1941, Serial No. 399,267
15 Claims. (Cl. 72—16)



1. A building wall construction of type supported on structural framing comprising, in combination, a plurality of preformed wall units each having a re-entrant groove around the periphery thereof, means securing said wall units to their structural supporting members in juxtaposition with respect to each other with their re-entrant grooves opposed, two oppositely disposed and juxtaposed grooves forming a joint, a non-hardenable mastic cement disposed in said grooves partially filling said joint, and expansible resilient strip means floating within said joint sealing said joint and entrapping said mastic in said grooves whereby to form a weatherproof resilient joint between juxtaposed units and prevent said mastic from being urged out from said joint during movement of one wall unit with respect to another, the said resilient strip means having a portion traversing the joint closely adjacent the side of the wall unit grooves nearest the weather surface of the wall, a portion spaced from the bottom of the wall unit grooves, and flanges extending into the bottom of the wall unit grooves.

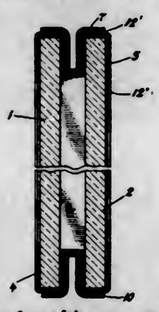
2,282,830
PROTECTIVE HELMET
Mason Scudder, Clayton, and Elmer Nolte, St. Louis, Mo., and Harry B. Latina, East St. Louis, Ill., assignors to Rawlings Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application May 1, 1941, Serial No. 391,314
11 Claims. (Cl. 2—3)

1. A protective helmet, comprising a crown member provided at its rear end with a depending rigid neck guard that is curved slightly in horizontal section, hinged ear flaps depending from said crown member and having their rear edges separated by gaps or open spaces from the front edges of said neck guard, a retaining means for the helmet comprising an elastic or resilient member on the inner side of the neck guard that is adapted to press against the back portion of



the user's head, and extensions on said member leading forwardly from said neck guard and detachably connected to the lower ends of said ear flaps in a manner to draw said flaps inwardly towards each other.

2,282,831
METHOD OF MAKING MULTIPLE WINDOWPANE UNITS
Leroy W. Shutts, Lockport, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application March 23, 1936, Serial No. 70,182, now Patent No. 2,173,664, dated September 19, 1939. Divided and this application August 1, 1939, Serial No. 287,789
3 Claims. (Cl. 154—28)

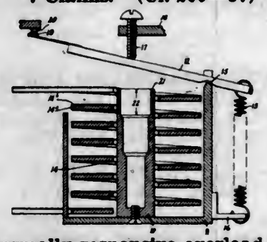


1. The method of making a multiple window pane unit with a sealed insulating space between the panes and a frame with sides of strip material bonded to its edges, said strip material being formed with channels spaced from each other by a separating ridge, which consists in laying a sufficient quantity of a suitable thermoplastic sealing compound in the channels, assembling the component parts together by placing the panes in the channels of the sides of the frame, the sealing compound holding the sides of the frame in separated relationship, heating the assembly to a temperature at which the thermoplastic flows, and simultaneously providing pressure at the sides of the frame to squeeze the component parts together into their final position, any excess sealing compound in the channels being extruded over the outside of the panes, cooling the assembly to atmospheric temperature, and removing any excess sealing compound from the outside of the panes, at the edges of the frame.

2,282,832
SEMICONDUCTING TAPE
Laurence W. Spooner, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application November 24, 1939, Serial No. 305,933
4 Claims. (Cl. 201—76)

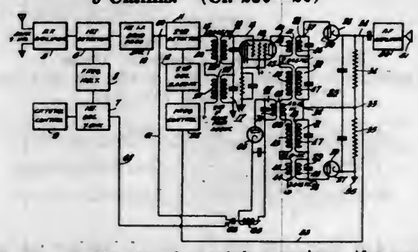
4. A resistance tape consisting of a colloidal solid suspension of carbon black in unplasticized cellulose acetate.

2,282,833
ELECTRIC PROTECTIVE DEVICE
Allen G. Stimson, Marblehead, Mass., assignor to General Electric Company, a corporation of New York
Application May 27, 1941, Serial No. 395,431
7 Claims. (Cl. 200—87)



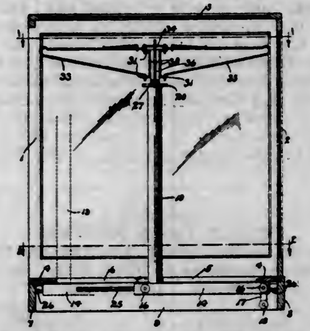
1. A thermally responsive overload relay comprising a magnetizable core, a magnetizable armature positioned in attractive relationship to said core, means providing a substantially closed flux path including said core and said armature, and an energizing coil of thermo-magnetic material arranged normally to provide a flux leakage path in shunt relation to said armature.

2,282,834
DOUBLE HETERODYNE RECEIVING SYSTEM
Harry E. Thomas, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 29, 1940, Serial No. 343,149
9 Claims. (Cl. 250—20)



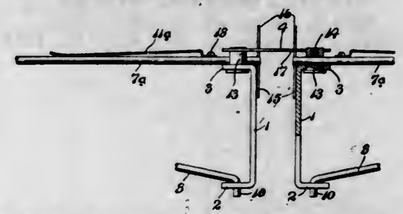
1. In a radio signal receiving system, the combination of a variable frequency oscillator, an automatic frequency control circuit therefor, an amplifier responsive to the oscillator frequency and to a signal frequency in non-adjacent frequency bands, means providing a frequency discriminator network coupled to said amplifier, means for deriving a differential control potential for the automatic frequency control circuit from said network in response to signals and oscillations from said oscillator, and means responsive to the signal frequency for applying said oscillations to said signal channel in the absence of received signals thereby to provide a stabilizing control potential for said oscillator through said discriminator network.

2,282,835
REVOLVING DISPLAY RACK
Anthony Vanderveld, Grand Rapids, Mich., assignor to Grand Rapids Store Equipment Company, Grand Rapids, Mich., a corporation of Michigan
Application March 6, 1941, Serial No. 382,034
8 Claims. (Cl. 312—133)



1. In a construction of the class described substantially horizontal tracks, a carriage mounted to traverse said tracks, a vertical shaft on said carriage, means supporting said shaft to permit rotative movement of the shaft about its vertical axis, said shaft at its lower end portion having a substantially horizontal opening therethrough, and a horizontal rod having a length shorter than the length of the tracks mounted on the structure at its rear end and extending forwardly to pass through said opening in the shaft when the carriage is at all of its positions except one extreme position of movement thereof, said rod being out of engagement with the opening in said shaft at such mentioned position of the carriage whereby the shaft may be rotated when the carriage is at such position and cannot be moved on the tracks until said opening in the shaft and said rod are in alinement.

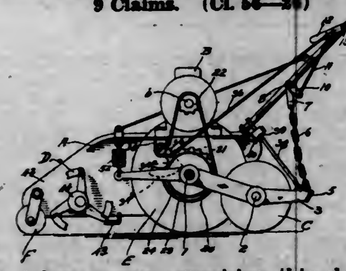
2,282,836
GARMENT SUPPORTING RACK
Anthony Vanderveld, Grand Rapids, Mich., assignor to Grand Rapids Store Equipment Company, Grand Rapids, Mich., a corporation of Michigan
Application March 25, 1941, Serial No. 385,102
5 Claims. (Cl. 211—168)



3. In a construction of the class described, a horizontal channel bar having a vertical web and horizontal flanges, an end bracket at each end of the channel bar made from wire rod having an upper horizontal section and an inclined lower section, said sections being connected together at their outer ends, said horizontal section lying across and extending over said channel bar, an integral downturned finger at the inner end of the lower section passing through an opening in the lower flange of the channel bar, a headed

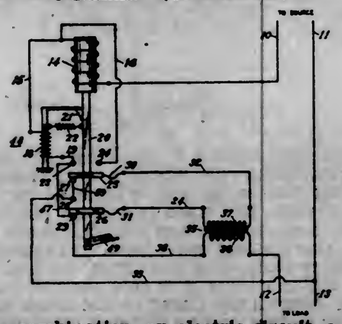
bushing extending through the upper flange of the channel bar having a horizontal opening therethrough through which the rear portion of the upper section of the bracket passes, means for securing the bushing and said upper section of the bracket in adjustable relation to each other, whereby the rear end of the upper section may be adjusted to extend a short distance back of the rear side of the channel bar, and a flat member of thin spring material permanently secured to the rear side of the channel bar web at a distance from said upper section of the bracket, and extending to and engaging against a side and at the rear end thereof, said member being yieldable upon pressure against its forward side for rearward movement to a position back of the rear end of the upper section of the bracket.

2,282,837
POWER LAWN MOWER
Elmer N. Wahrenbrock, Los Angeles, Calif.
Application September 25, 1939, Serial No. 296,434
9 Claims. (Cl. 56—24)



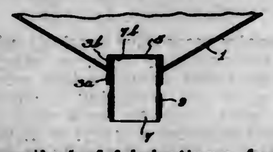
1. A lawn mower comprising, thin sheet metal side plates, a main shaft rotatably hung in said side plates, side wheels hung on said shaft within said plates, a cutter mechanism journaled in said plates in front of said shaft and bridging the space therebetween, front wheels, a traction roller pivotally hung on said main shaft to the rear thereof, means for elevating said roller, driving connections between said shaft said roller and the said cutter mechanism on one side of the mower only, a prime mover, means interconnecting the latter with said shaft said roller and cutter mechanism, and manual means controlling said interconnections.

2,282,838
VOLTAGE BOOSTING SYSTEM
Paul G. Whitmore, Pine Bluff, Ark.
Application November 27, 1941, Serial No. 420,687
6 Claims. (Cl. 171—119)



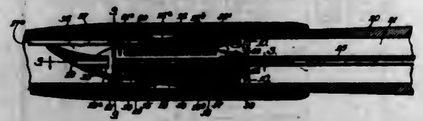
1. In combination, an electric circuit, a transformer having at least two windings, means connecting one winding permanently in series relation with said circuit, contact means arranged to connect the other winding in shunt with said circuit to provide a first predetermined modification of the voltage of said circuit, said contact means embodying a movable contact-carrying member, means responsive to a predetermined current in said circuit for urging said movable contact-carrying member for movement, means responsive to said movement for connecting said other winding in shunt with said circuit to provide a second predetermined modification of the voltage of said circuit which differs from said first predetermined modification, time-delay means dependent upon the duration of said predetermined current for restraining said contact-carrying member from movement, and means responsive to said movement for rendering said time-delay means inoperative.

2,282,839
LOUDSPEAKER DIAPHRAGM AND METHOD OF FABRICATING THE SAME
Edward J. Wiest, Oak Lane, Pa., assignor to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application July 31, 1940, Serial No. 348,862
5 Claims. (Cl. 179—115.5)



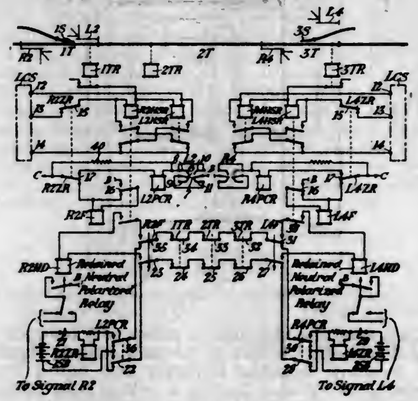
1. The method of fabricating a frusto-conical acoustical diaphragm which comprises forming the diaphragm with a closed, hollow, outwardly extending projection on its apex end, removing the closed end of said projection to provide the diaphragm with an opening, inserting a voice coil form in said opening and securing said form to said diaphragm, and finally applying said removed end to one end of said form and securing said end thereto.

2,282,840
FOUNTAIN PEN
Russell T. Wing, Excelsior, Minn.
Application October 3, 1941, Serial No. 413,440
33 Claims. (Cl. 120—50)



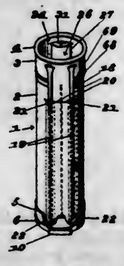
1. In a fountain pen, a barrel having an ink reservoir, ink feed means extending from one end thereof comprising a shell having a portion adapted to support a pen nib, a core housed in said shell, said shell having a capillary fissure therethrough on the pen nib supporting surface thereof and said core having a capillary fissure extending longitudinally thereof and communicating with said reservoir and with said shell fissure, means providing a capillary connection between said shell and core fissures for directing ink from said reservoir to the pen nib, said core also having capillary chambers for holding the ink in excess of that required for supplying said fissures, said core having air passage means for connecting each of said chambers with the atmosphere.

2,282,841
RAILWAY TRAFFIC CONTROLLING APPARATUS
Henry S. Young, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application August 27, 1941, Serial No. 408,483
9 Claims. (Cl. 246—26)



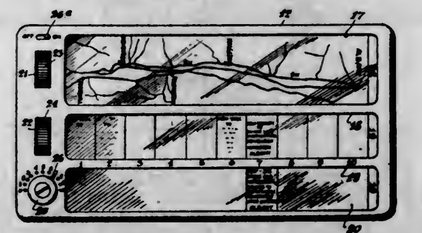
1. In combination, a stretch of railway track, two successive signals governing traffic in the same direction through said stretch, a two-wire line circuit having a source of current adjacent the advance signal for controlling the rear signal in accordance with the polarity of current applied by said source to said line circuit, independently operable control means for each signal, means governed by the control means associated with said rear signal for conditioning said signal for control over said line circuit, means governed by the control means associated with said advance signal for controlling the polarity of current applied from said source to said line circuit, and means associated with said line circuit adjacent said advance signal for rendering ineffective said last-mentioned means unless said rear signal is conditioned for control over said line circuit.

2,282,842
GOLF BAG
Harold Q. Abell, Stockdale, Kans.
Application June 11, 1940, Serial No. 339,965
14 Claims. (Cl. 248—96)



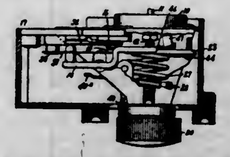
1. The combination of a golf bag having a wall and a bottom cup with a marginally flat portion on one side, a top collar, said wall having longitudinal and parallel pockets extending into the top collar, a pair of legs to prop the bag when the bag is rested upon said flat portion, said legs being adapted to occupy said pockets and assume an initially parallel relationship, and hinge means swingably attaching the legs to the collar, said hinge means being circumferentially spaced and consequently having their axes in angled relationship to provide for spreading the legs in reference to each other and to the bag when swung to pitched relationship to the bag.

2,282,843
CORRELATING DEVICE
Solomon Adler, Kew Gardens, N. Y.
Application August 29, 1939, Serial No. 292,381
7 Claims. (Cl. 40—95)



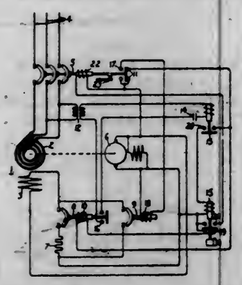
1. An article of the character described comprising a casing formed with a plurality of apertures, rollers mounted within said casing, means associated therewith for rotating said rollers, a web mounted on said rollers and bearing indicia whereby a rotation of said rollers will progressively render a portion of said indicia visible through one or more of said apertures, a portion of the indicia on said web being on its upper surface and a correlated portion thereof on its under surface, the indicia on said upper surface visible through one aperture and the correlated indicia on said under surface visible through another aperture when said latter aperture is illuminated, a movable belt mounted within said casing for transverse movement with respect to the movement of said web, and illuminating means carried by said belt for illuminating a selected portion of said latter aperture, thereby rendering the indicia on the under surface of said web visible.

2,282,844
CONTROL DEVICE
Edgar H. Ayers, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 18, 1941, Serial No. 389,183
9 Claims. (Cl. 200—83)



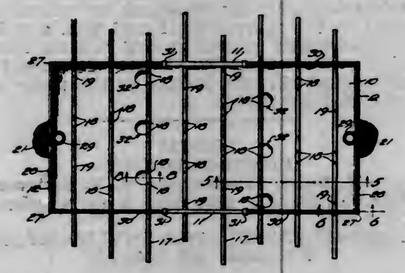
1. A control device comprising an arm provided with a pivot, an operating device engaging said arm a predetermined distance from said pivot, a spring for applying a force to said arm in opposition to said operating device, a member between said spring and said arm, and means for tilting said member on said arm thereby to apply the force of said spring to said arm at the point of pivotal engagement of said member with said arm.

2,282,845
CONTROL SYSTEM
Herman Bany, Lansdowne, Pa., assignor to General Electric Company, a corporation of New York
Application June 29, 1939, Serial No. 281,869
8 Claims. (Cl. 171—118)



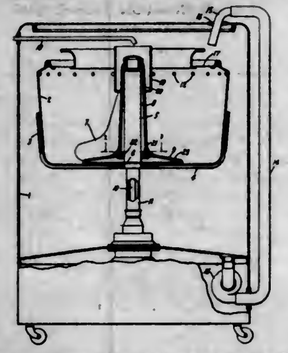
1. In combination, an alternating current system, a synchronous machine, means for supplying said machine with an excitation which produces a relatively low subnormal terminal voltage but which is not sufficient to pull said machine into synchronism when connected to said system, and means responsive to the frequency of said subnormal voltage and independent of the frequency of said system for connecting said machine to said system.

2,282,846
GAME APPARATUS
Noël C. Barbot and Paul A. Barbot, Hyattsville, Md.
Application March 15, 1941, Serial No. 383,630
14 Claims. (Cl. 273—85)



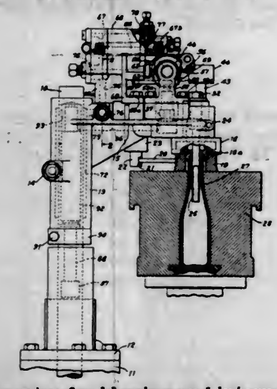
13. In a game apparatus, a table having a bottom and side and end walls, said end walls being provided with projectile receiving pockets, a projectile adapted to be impelled over said table, a series of impeller elements, each of said elements including a rod extending above the table bottom transversely thereof and at least one pair of spaced parallel fingers extending radially from the rod, the spacing of the fingers being less than the diameter of the projectile, certain of said rods also having single radial fingers parallel to the fingers of the pair, elevated baskets at the opposite ends of the table, nets extending along the sides and across the ends of the table, and scoop elements slidably and removably mounted on certain of said fingers and adapted to receive the projectile and project it aerially toward the elevated baskets.

2,282,847
WASHING MACHINE
Herbert F. Bariffi, Hamden, Conn., assignor to General Electric Company, a corporation of New York
Application March 13, 1941, Serial No. 383,079
1 Claim. (Cl. 68—53)



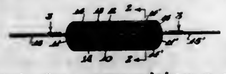
In a washing machine, a receptacle for receiving liquid and clothes to be washed and having an overflow opening defining the liquid level therein, an agitator having a hollow body having its upper end projecting above said opening and its lower end terminating in a disk adjacent the bottom of the receptacle, passages from the interior of said body to the receptacle beneath said disk, and provisions for introducing rinsing liquid into the upper end of the agitator body whereby suspended particles are flushed out through said overflow opening.

2,282,848
APPARATUS FOR BLOWING AND COOLING GLASSWARE
Walter K. Berthold, Rockville, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware
Application March 17, 1939, Serial No. 262,415
13 Claims. (Cl. 49—18)



8. Apparatus for blowing and internally cooling hollow articles of glassware comprising a combination blow head and pressure fluid delivery tube, said delivery tube depending through and below the level of the blow head, means for moving said combination blow head and pressure fluid delivery tube to and from position to cause the blow head to rest on a mold having a hollow glass parison therein and the pressure fluid delivery tube to depend into the interior of said hollow glass parison, passages respectively connected with the tube and with the interior of the blow head for conducting pressure fluid to the tube and for exhausting pressure fluid from the blow head, a normally closed intake valve controlling flow of pressure fluid through the passage connected with said tube, a normally closed exhaust valve controlling exhaust of pressure fluid through said exhaust passage, a cam shaft adjacent to said valves, cams on said cam shaft having contours so related that a complete rotation of the cam shaft will cause opening of the intake valve while the exhaust valve remains closed, subsequent opening of the exhaust valve while the intake valve remains open, and still later closing of both valves, means for causing intermittent rotary movements of said cam shaft, and means for regulably controlling the speed of each such intermittent rotary movement.

2,282,849
ELECTRIC FUSE
Haim Beyer, Plainfield, N. J., assignor to Cornell-Dubilier Electric Corporation, South Plainfield, N. J., a corporation of Delaware
Application September 16, 1940, Serial No. 356,989
4 Claims. (Cl. 200—113)



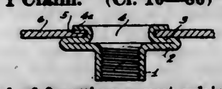
2. An electric fuse comprising a pair of insulating plates, an elongated fusible element placed between said plates, metallic strips engaging the ends of said fusible element and being reversely bent upon one face of said plates, a pair of metal clamp elements pressed around the opposite ends of said plates and engaging the bent portion of said metal strips, a casting of fixable artificial resin enclosing and hermetrically sealing the assembled elements, and terminal means passing from said clamp elements to the outside of said casing.

2,282,850
CAMERA
Philip J. Brownscombe, East Orange, N. J., assignor to Universal Camera Corporation, New York, N. Y., a corporation of Delaware
Application April 1, 1940, Serial No. 327,122
7 Claims. (Cl. 67—29)



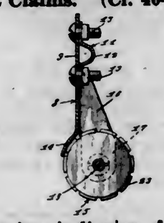
3. In a camera having a shutter housing wherein there is disposed a shutter comprising a movable blade, said camera being adapted to be used with a photo-flash bulb, means for synchronizing the actuation of said flash-bulb with the operation of said shutter, said synchronizing means comprising a fixed contact member electrically insulated from said movable blade and having at least a portion thereof disposed within said housing, and a switch member rigidly mounted within said housing and having a resilient arm thereof normally adapted to be pressed against said fixed contact member, said resilient arm lying in the portion of the path of travel of said movable blade adjacent its initial inactive position whereby said blade maintains said arm out of engagement with said fixed contact member until said blade has started its movement.

2,282,851
CLINCH NUT
James P. Burke, Knoxville, Tenn., assignor to Bert L. Quarnstrom and F. L. McLaughlin, both of Detroit, Mich.
Application November 15, 1939, Serial No. 304,498
1 Claim. (Cl. 10—86)



The method of forming a nut which consists in axially extruding the central portion of a sheet metal blank into substantially tubular form to provide a substantially tubular portion having an integral radially extending end flange, in bending a portion of the flange inwardly upon itself to provide a flange portion of double thickness, in bending the remaining portion of the flange into the form of a tube of other than round shape extending axially in opposed aligned relation with said substantially tubular portion, in bending said substantially tubular portion into the form of a tube, and in tapping said last named tube.

2,282,852
AUTO SERVICE INDICATOR
George Chann, Bridgeton, N. J.
Application December 9, 1940, Serial No. 369,321
2 Claims. (Cl. 40—68)

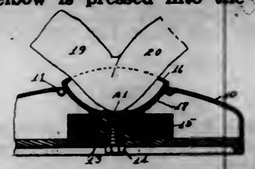


1. In a service indicator for automobiles, a plate having side portions bent at right angles thereto to form a pair of yielding flanges at opposed side edges thereof, the inner portion of the said plate being bent from the plane of the plate body to form an arcuate guide, the said flanges having aligned openings, a shaft extended through the flange openings of the plate and having a threaded extension at one end, a series of disks rotatably mounted on the shaft between the said flanges having numerals on the periphery thereof, the said disks being rotatable to present the numerals thereon in a row transverse of and adjacent the outer edge of the guide, and a nut fitted on the threaded end of the shaft adjustable to clamp the flanges and the disks for releasably locking the disks in set arrangement.

2,282,853
ANATOMIC VEIN OCCLUDER
Thomas D. Clark, Victor, Iowa
Application February 24, 1941, Serial No. 380,137
5 Claims. (Cl. 128—327)

1. An anatomic vein occluder, comprising an elongated cup-shaped body of flexible resilient

material shaped to receive a patient's elbow and portions of the arm adjacent thereto and having a tissue-compressing and vein-gripping flange surrounding its upper open edge and extended inwardly, said cup-shaped body and flange having such flexibility and resiliency that when a patient's elbow is pressed into the cup-shaped



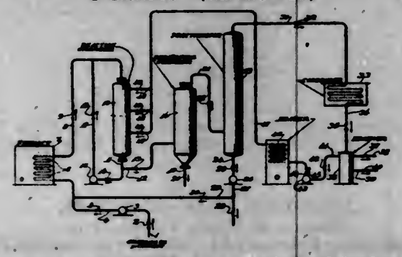
body and the arm extended and pressed down at the points where they engage the ends of the cup-shaped body, the side portions of said flange will be moved inwardly toward the longitudinal center of the cup-shaped body and the flange pressed against the sides of the patient's arm, and when the pressure is removed the parts will assume their first mentioned position.

2,282,854
STATIONARY INDUCTION APPARATUS
Herbert L. Driftmeyer, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Original application September 28, 1939, Serial No. 296,940. Divided and this application June 20, 1941, Serial No. 398,944
1 Claim. (Cl. 175—356)



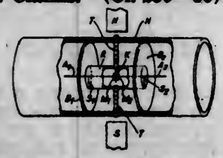
A flatwise spirally wound coil of strip having a tab punched at the end thereof to form a hook and having a slot punched in the strip a short distance from the end of the strip, adapted to receive the said hook for securing the outer turns of the coil in a larger loop when the outer turns of the coil are unwound.

2,282,855
CATALYTIC CONVERSION OF HYDROCARBON OILS
Gustav Egloff, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application June 29, 1940, Serial No. 343,198
5 Claims. (Cl. 196—52)



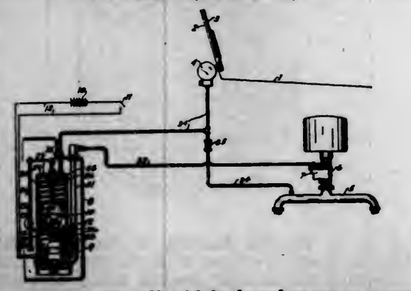
1. A process for the conversion of hydrocarbon oil, which comprises heating a flowing stream of the oil to be cracked to a catalytic cracking temperature while maintaining a dispersion of finely divided catalyst particles in said stream, supplying the resulting heated oil and dispersed catalyst to one end of an elongated reaction zone, removing resulting conversion products and catalyst in commingled state from the opposite end of the reaction zone, returning a portion of the resulting conversion products and catalyst to the reaction zone, separating from the remaining portion cracked vapors and a catalyst containing residue, fractionating the vapors to form a reflux condensate, subjecting the fractionated vapors to condensation to form distillate and uncondensed gases, recovering the distillate, and reheating and returning regulated quantities of said uncondensed gases to the reaction zone at a temperature regulated to maintain an active cracking temperature therein.

2,282,856
MAGNETRON OSCILLATOR
Willi Engbert, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Zehlendorf, Osteweg, Berlin, Germany, a corporation of Germany
Application April 17, 1941, Serial No. 388,937
In Germany January 12, 1940
7 Claims. (Cl. 250—36)



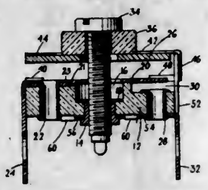
1. A magnetron device adapted to generate ultra-high frequency oscillations, said device comprising an anode system coaxially surrounding a linear cathode and enclosed in the inner conductor of a coaxial transmission cable, the axis of the cathode being perpendicular to the axis of the cable, said inner conductor being short relative to said transmission cable and having an extension which constitutes an antenna means for exciting said transmission cable.

2,282,857
VACUUM PUMPING SYSTEM
George R. Ericson, Kirkwood, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application September 30, 1939, Serial No. 297,282
2 Claims. (Cl. 103—4)



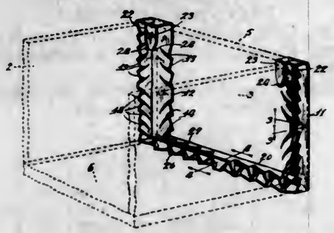
1. A combination liquid fuel and vacuum pump comprising a casing having a liquid pumping chamber and a vacuum pumping chamber, centrifugal pump structure in said liquid pumping chamber, means for driving said centrifugal pump, a movable displacement member in said vacuum pumping chamber, a liquid passageway for conveying a portion of the discharge from said liquid pumping chamber to said vacuum pumping chamber at one side of said displacement member, spring means acting upon the opposite side of said displacement member, and valve means operatively connected to said displacement member for controlling the flow of liquid to said vacuum pumping chamber.

2,282,858
ELECTRICAL CONDENSER
Joseph A. Flanzer, Willimantic, Conn., assignor, by mesne assignments, to Philip Lauter and Josephine Lauter, Willimantic, Conn., doing business under the name of The Electro Motive Manufacturing Company
Application November 7, 1940, Serial No. 364,629
14 Claims. (Cl. 175—41.5)



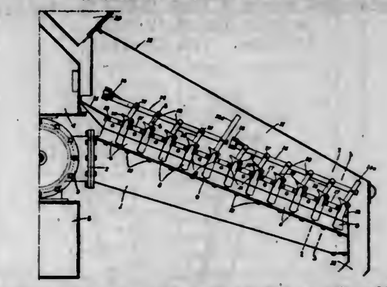
1. An air trimmer condenser comprising a thick insulation base having a threaded center bushing, the upper side of said base being recessed at said bushing, a bottom plate overlying said base, a movable top plate secured to said base, an adjusting screw passing through said plates and threadedly received in said bushing, said base being provided with upward projections at its corners acting as stops to limit the downward movement of the top plate to prevent contact with the bottom plate.

2,282,859
BOX CONSTRUCTION
Frank W. Frey, Chicago, Ill., assignor of one-half to Bertram Wm. Coltman, Kenilworth, Ill.
Refiled for abandoned application Serial No. 690,393, filed September 21, 1933. This application January 5, 1940, Serial No. 312,545
10 Claims. (Cl. 217—5)



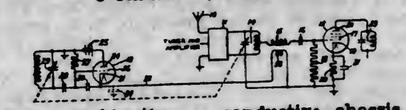
1. In a box constructed of penetrable material, the combination of side members, end members, and a bottom member, a reinforcing strip at each end of the box bent to embrace the vertical adjoining edges between the side members and the end members and to extend integrally across and embrace the edge of the bottom member in face contact with the upper and lower faces thereof, and prongs projecting from each reinforcing strip for entering the penetrable material of said members whereby to interlock said members into a rigid unit and protect their edges against wear.

2,282,860
DRY CONCENTRATOR TABLE
Charles M. Fuller, Lodi, Calif., assignor to E. D. Wilkinson, Stockton, Calif.
Application December 4, 1939, Serial No. 307,464
2 Claims. (Cl. 209—474)



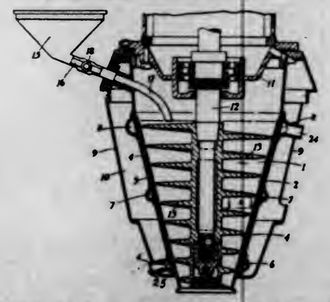
1. In a dry concentrating table, a plurality of individually removable transversely disposed table-top forming members arranged in a row in spaced relation lengthwise of the table to provide concentrates discharge passages therebetween, riffle bars above the members normally substantially closing the passages at the top and overhanging the adjacent portion of the members, means pivoting the bars for upward movement to open the passages, said pivoting means including, with upstanding plates forming the sides of the table and between which the bars extend for the full distance therebetween, pivot elements projecting through and supported by the plates and removable therefrom from the outside; said elements at their inner end removably engaging in the ends of the bars.

2,282,861
OSCILLATOR
Paul C. Gardiner, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application October 2, 1940, Serial No. 359,364
3 Claims. (Cl. 250—20)



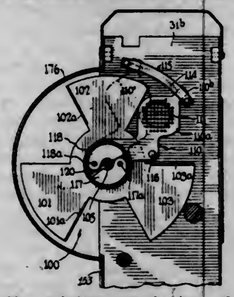
3. In combination, a conductive chassis, an electron discharge device mounted on said chassis and having a cathode, a control electrode and an anode, resonant frequency determining means coupled between said anode and said control electrode, a point on said means being connected to said chassis for currents of said resonant frequency, a load circuit mounted on said chassis and separated from said oscillator by a substantial distance, a conductor connected from said cathode to said chassis through said load circuit, said conductor and said chassis presenting substantial capacitive reactance between said cathode and said point at said resonant frequency, and a capacitance between said cathode and another point on said frequency determining means so placed with respect to said first point as to form with said capacitive reactance a voltage divider arranged to maintain said cathode at an alternating potential intermediate the alternating potentials of said anode and control electrode, thereby to cause oscillations in said frequency determining means and to excite said conductor for the transfer of said oscillations to said load circuit.

2,282,862
REFRIGERATION APPARATUS
Alberto Francesco Genova, Venice, Italy, assignor, by mesne assignments, to Insta-Freeze Corporation, San Francisco, Calif., a corporation of California
Application March 8, 1938, Serial No. 194,556
In Italy March 17, 1937
9 Claims. (Cl. 62—114)



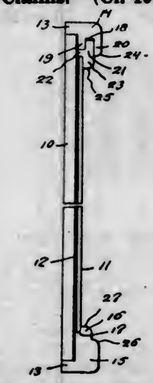
1. In apparatus for instantaneously producing ice cream and other frozen comestibles, or frozen potable liquids, a freezing vessel having an upper inlet port and a lower outlet port, freezing means for maintaining an invariably uniform low refrigerating temperature in said freezing vessel in order to freeze the materials introduced into the same, a helical member disposed in a position for receiving the material to be frozen directly upon an upper portion thereof and rotatable in the vessel in contact with the inner wall thereof for moving the frozen material to the outlet port, and means for manually regulating the supply of said material to be frozen to the vessel inlet port according to the nature of said material, including a supply pipe and a valve in said pipe regulatable in accordance with the density of the material passing therethrough.

2,282,863
MOTION PICTURE PROJECTOR
Otto W. Githens and George Kende, New York, and Everett M. Porter, Brooklyn, N. Y., assignors to Universal Camera Corporation, New York, N. Y., a corporation of Delaware
Original application June 3, 1937, Serial No. 146,182, now Patent No. 2,190,658, dated February 20, 1940. Divided and this application December 21, 1939, Serial No. 310,345
3 Claims. (Cl. 88—19.4)



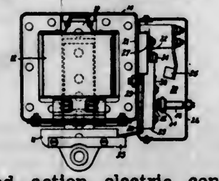
3. In a motion picture projector of the character described, a combination of a lamp house, a lamp in said lamp house adapted to project a beam of light, a shaft, a shutter fixed to said shaft for rotation therewith, said shutter being adapted to rotate across the path of said beam of light, means to rotate said shaft, a fire shutter comprising a lever freely pivotally mounted on said shaft and having a portion thereof normally disposed in the path of said light beam, means for causing said fire shutter to automatically move from its normally disposed position to a position out of the path of said light beam during the rotational movement of said shaft, an extension on said fire shutter, and a member supported by said lamp house, said member having a slotted pathway in which said extension is slidingly received.

2,282,864
PICTURE FRAME
Lewis F. Glenn, Los Angeles, Calif.
Application March 12, 1941, Serial No. 383,022
6 Claims. (Cl. 40—156)



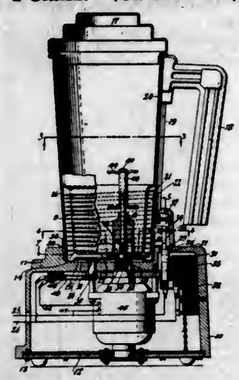
1. A picture frame including a base, upper and lower mouldings, said lower moulding having a longitudinal shoulder upon which the picture glass is adapted to repose, said upper moulding having a longitudinal groove, and a slide removably positioned therein and extending therefrom to hold the picture against said base, said slide being substantially T-shape in cross section and having its stem engaging the upper edge of the picture to hold the latter against said shoulder.

2,282,865
ELECTRIC SWITCH
Robert W. Goff, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 4, 1941, Serial No. 386,928
6 Claims. (Cl. 200—97)



1. A delayed action electric control switch comprising a support, cooperating switch contacts, a resilient switch member having one end movably mounted upon said support and carrying at its free end one of said contacts, means for biasing said switch member to a normal position, quick-acting actuating means for moving said switch member to an actuated position spaced from said normal position, the resilience of said switch member and the inertia of its free end being sufficient to delay movement of said free end from said normal position until said actuating means has substantially completed its movement, and means mounted upon said support adjacent said actuated position of said switch member to engage and damp oscillations of said free end of said switch member after movement thereof to its actuated position.

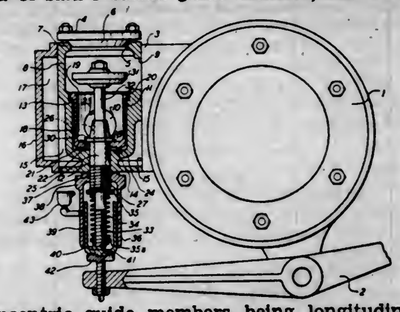
2,282,866
ELECTRIC LIQUID MIXER AND HEATER
Harold Hagen, Buffalo, N. Y.
Application November 27, 1939, Serial No. 306,215
1 Claim. (Cl. 259—108)



A liquid mixing device comprising a base provided on its top with a socket and a vertical groove in the side of the socket, a liquid container having its lower end removably seated in said socket and provided on its bottom with a downwardly opening chamber and also provided on its side with vertical ribs engaging with said groove, a mixer shaft journaled in a bearing at the upper end of said chamber and provided at its upper end within the container with an impeller and also provided at its lower end within said chamber with a non-circular coupling head, said shaft being slidable vertically in said bearing, a motor mounted on said base and having a driving shaft which is provided at its upper end with a non-circular coupling socket which receives said coupling head, the axes of said driving shaft and mixer shaft being vertically in line but on one side of the center of said container, and a spring interposed between said coupling head and bearing and operating to hold said head yieldingly in engagement with said coupling socket.

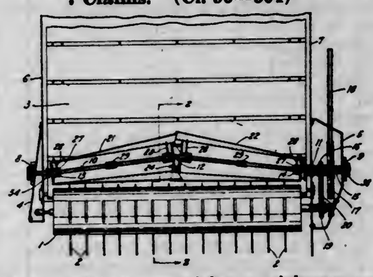
2,282,867
VALVE MECHANISM
Byford C. Hale, Tulsa, Okla.
Application October 7, 1941, Serial No. 413,955
3 Claims. (Cl. 123—189)

1. In a valve mechanism for engines, the combination of a casing, a gas passageway extending through said casing, a tubular valve seat member removably disposed in said passageway intermediate the ends thereof, a valve cooperating with said seat member and having a stem extending through said seat member to the exterior of said casing, a tubular internal guide member removably disposed in said seat member surrounding said stem and extending exteriorly of said casing, means carried by said seat member and said internal guide member to lock said members against relative rotation, and concentric external guide members surrounding the exteriorly extending end of said valve stem and removably attached to the exteriorly extending end of said internal guide member, one of said



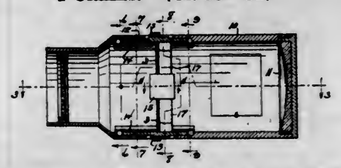
concentric guide members being longitudinally movable relative to the other and adapted upon longitudinal movement thereof to impart corresponding movement to said valve stem.

2,282,868
PICKUP AND DELIVERY MECHANISM
George Innes, Davenport, Iowa
Application January 8, 1940, Serial No. 312,935
7 Claims. (Cl. 56—364)



1. In a machine comprising a pick-up, a conveyor belt, and driving means for operating these parts; the combination of a distributor located above and between the pick-up and the belt and operable to convey grain received from the pick-up to the belt, the distributor being constructed in two parts mounted upon axes arranged at an angle to each other and rotatable in directions which are not parallel, the directions of rotation being such as to tend to distribute grain laterally from the central portion of the distributor toward the lateral edges of the belt.

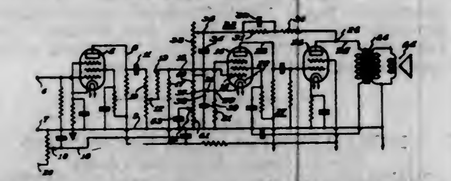
2,282,869
SHUTTER MECHANISM FOR CAMERAS
Lyle T. Johnson, Madison, and Raymond A. Jensen, Menomonie, Wis.
Application November 10, 1941, Serial No. 418,564
4 Claims. (Cl. 95—31)



1. The combination with a camera having a spherical reflecting mirror at the back, of a sensitized photographic means holder intermediate

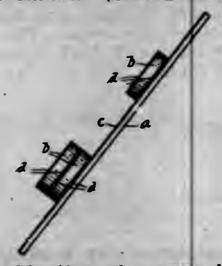
the front and rear of the camera adapted to be moved on axis of the camera forwardly and rearwardly relatively to the mirror for focusing, a focusing ring rotatably mounted on the camera, a pair of diametrically disposed slides on the camera, a threaded connection between the rings and the slides for moving the slides endwise when the ring is turned axially, supports connecting the slides to the holder for movement as a unit with the slides, and shutter curtain means interposed between the holder and mirror.

2,282,870
AUDIO FREQUENCY AMPLIFIER
Ernest S. Lundie, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 30, 1939, Serial No. 306,955
1 Claim. (Cl. 179—171)



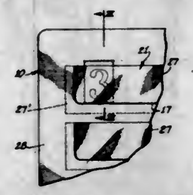
In an amplifier, the combination of an amplifier stage having an output circuit, means providing a feedback connection with said circuit terminating in a preceding amplifier stage, a high frequency control path in said connection including a limiting resistance and shunt capacity for at least a portion thereof effective to increase the inverse feedback in a higher frequency range, a low frequency control path serially in circuit with said first-named path having a relatively high impedance at a predetermined lower frequency range and including a capacitor of relatively low impedance with respect to the first-named capacitor and of relatively high impedance in a predetermined low frequency range and a variable shunt resistance element, a cathode circuit for said preceding amplifier stage having an impedance element serially in circuit with said first and second-named frequency-controlling paths, a capacitor having a relatively low impedance in a frequency range corresponding to the high frequency end of the operating range of said amplifier, and means for variably connecting said capacitor in shunt with at least a portion of said last-named impedance element.

2,282,871
GAME BOARD
Clifford B. Malbon, Marblehead, Mass.
Application July 22, 1940, Serial No. 346,699
3 Claims. (Cl. 273—136)



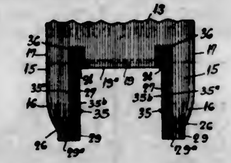
2. The combination of a game board, having checkers movable on the surface thereof, the surface of the board, and the contacting surfaces of the checkers, having a flocking of fibrous material adhesively secured thereto presenting apparently smooth surfaces and forming minute flexible projections on the surfaces to hold the checkers in position with equal effort against unintentional movement in any direction while permitting ready intentional sliding movement of the checkers with equal effort in any direction in contact with the board.

2,282,872
DISPLAY DEVICE
Seymour W. Mayer, Van Nuys, and Edward T. Lowe, Beverly Hills, Calif.; said Lowe assignor to said Mayer
Application September 27, 1941, Serial No. 412,632
3 Claims. (Cl. 40—159)



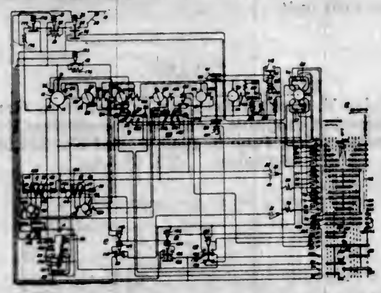
1. A double-faced display device comprising: a pair of outer sheets of material of appreciable thickness, each sheet being provided with a plurality of display areas, each display area being defined by three narrow intercommunicating slits formed in the sheet material and defining the margins of the area; a strip of transparent material extending over each display area and through said slits and having its end portions overlying the rear surface of such sheet adjacent the slits; said pair of outer sheets being cemented together in back to back relation with a pressure bonding layer therebetween, each strip of transparent material being maintained under tension over the display area and deformed in portions contiguous to said slits to form a pocket.

2,282,873
STOCKING
John P. Mitzel, Derita, N. C., assignor to Larkwood Silk Hosiery Mills, Inc., Charlotte, N. C., a corporation of North Carolina
Application February 10, 1941, Serial No. 378,144
6 Claims. (Cl. 66—182)



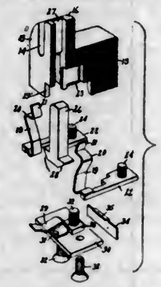
1. A stocking comprising a leg portion, heel tabs, integrally knitted to the leg portion and being of the same weight fabric as the leg portion for a substantial portion of their length and having the lower tip portions of said heel portions reinforced, a foot portion joined to the leg portion and to one edge of each heel tab, a reinforced area in the leg portion at each of the junction points between the leg, the heel tab and the foot portion, and a second narrow reinforced area disposed along one edge of each tab adjacent the junction line between said tab and said foot portion.

2,282,874
POWER SYSTEM INCLUDING ROTARY TRANSFORMERS
Harold G. Moore, Wesleyville, Pa., and Fremont Felix, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application February 20, 1941, Serial No. 379,794
20 Claims. (Cl. 172—179)



1. In a control system for an electric vehicle, the combination of an armature reaction excited rotary transformer having a commutator and sets of primary brushes and secondary brushes displaced with respect to each other about said commutator, a driving motor, means for connecting said driving motor across a brush of said primary brushes and a brush of said secondary brushes, a main load absorbing braking resistance, control means for connecting said resistance in series circuit with said primary brushes to establish dynamic braking operation, an emergency braking resistance, means for connecting said emergency braking resistance in series circuit with said motor, and means dependent on the speed of said motor for controlling the amount of said resistances connected in series circuit with said motor when said control means is operated to establish dynamic braking operation.

2,282,875
LAMP SOCKET
Adolf G. Mueller, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Application October 3, 1939, Serial No. 297,711
21 Claims. (Cl. 173—328)



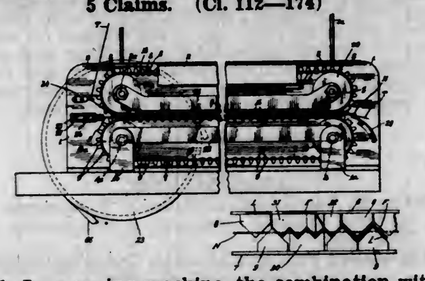
2. In combination, a base of insulating material having spaced parallel slots in one face extending to an edge thereof, movable contact means located in said slots and adapted to engage the contact prongs of an electric device to hold them in position on said base, and means including a manually operable member cooperating with said movable contact means for releasing the contact prongs and moving them out of engagement with said contact members.

2,282,876
PROJECTION SCREEN
David F. Newman, Rockville Centre, N. Y., assignor to Trans-Lux Corporation, New York, N. Y., a corporation of Delaware
Application April 13, 1938, Serial No. 201,670
2 Claims. (Cl. 88—24)



1. A projection screen comprising a sheet-like translucent body, and a plurality of layers of light-diffusing material adhering to said translucent body, one of said layers being a fabric sheet and another of said layers being formed from comminuted material, said fabric sheet and said layer of comminuted material being disposed on the same side of said translucent body and said layer of comminuted material overlying said fabric sheet.

2,282,877
TIE SEWING MACHINE
Max M. Newman and Morris Opper, New York, N. Y., assignors to American Machine & Foundry Company, a corporation of New Jersey
Application January 11, 1939, Serial No. 250,343
5 Claims. (Cl. 112—174)

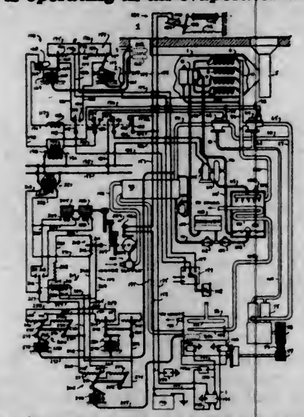


1. In a sewing machine, the combination with a stationary needle having a thread extending through its eye and lengthwise thereof, of opposed sets of uniformly spaced movable members, the members of one set being adapted to interengage with the members of the other set to form uniform pleats in and advance a necktie fabric and a lining over the eye of the needle to impale the pleated fabric and lining on the needle and thereby stitch the same, and opposed movable parts ahead of said opposed sets of members and normally disposed adjacent the eye of the needle and spaced apart from each other sufficiently to permit the leading end of the fabric and lining to be impaled on the point of the needle, said parts having teeth which are disposed closer together than said members and adapted to interengage with each other and form pleats in the leading end of the fabric and lining which are narrower than the pleats formed by said opposed sets of members and impale said narrower pleats on said needle, whereby shorter stitches are formed in the leading end of the lining and the leading end of the fabric.

2,282,878
AIR CONDITIONING SYSTEM
Alwin B. Newton, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application May 6, 1938, Serial No. 206,411
30 Claims. (Cl. 257—3)

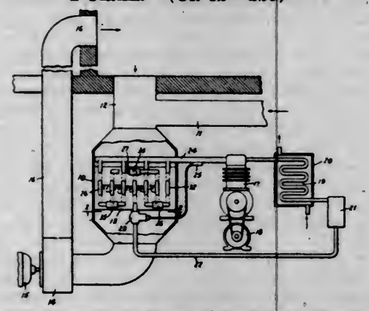
9. In a conditioning system, in combination, a

refrigeration system including a compressor and heat exchange devices, one of said heat exchange devices being arranged to operate either as an evaporator or as a condenser, means for supplying medium to said one heat exchange device for supplying heat to said one heat exchange device while it is operating as an evaporator and to cool



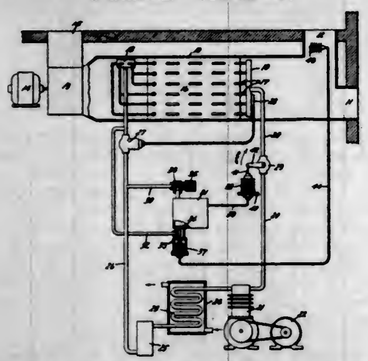
said one heat exchange device while it is operating as a condenser, means responsive to conditions which are measures of the demand for cooling or heating medium for controlling said supplying means, and means actuated by said controlling means for stopping said compressor upon a predetermined demand for said medium.

2,282,879
COOLING UNIT
Rollin H. Norris, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application February 27, 1940, Serial No. 321,029
1 Claim. (Cl. 62—126)



A cooling unit for a refrigerating system comprising an odd number of similar conduits distributed evenly over the path of a medium to be cooled and having straight portions arranged across the path of the medium, an inlet for admitting liquid refrigerant to the middle one of said conduits, a distributor at the outlet end of said middle conduit for supplying substantially equal quantities of the refrigerant discharged therefrom to two others of said conduits located symmetrically on either side of said middle conduit, and a distributor at the outlet of each of said two conduits for again dividing the refrigerant equally to two further ones of said conduits arranged symmetrically with respect to the corresponding one of said two conduits whereby each stream of refrigerant before it is divided must pass through a conduit in heat exchange with the medium to be cooled and the divided streams of refrigerant are distributed symmetrically across the path of the medium to be cooled, and means for collecting vaporized refrigerant discharged from said further ones of said conduits and for removing the refrigerant from said unit.

2,282,880
REFRIGERATING SYSTEM
Charles T. Oergel, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application June 5, 1940, Serial No. 338,901
8 Claims. (Cl. 62—6)



1. An air conditioning system including a refrigerating machine comprising a compressor and a condenser and an evaporator, means for circulating air to be cooled over said evaporator and for discharging said air into an enclosure to be conditioned, an expansion valve for controlling the flow of refrigerant from said condenser to said evaporator, means providing a by-pass for the flow of refrigerant around said expansion valve from the high side of said machine to the low side thereof whereby the flow of refrigerant through said by-pass varies in accordance with variations in the pressure drop across said expansion valve, said means having a chamber therein and restricted orifices on the inlet and outlet sides of said chamber for limiting the flow of refrigerant to and from said chamber, means for varying the effective size of the one of said orifices on the outlet side of said chamber, means dependent upon the pressure of the refrigerant in said chamber for controlling the flow of gaseous refrigerant from said evaporator to said compressor, and means dependent upon the temperature of the air in the enclosure to be conditioned for controlling said means for varying the effective size of said outlet orifice to change the effective size of said outlet orifice directly in accordance with changes in the temperature of the air in the enclosure.

2,282,881
HIGH-CHAIR DEVICE
Stanley F. Ostrow, Momence, Ill.
Application May 13, 1941, Serial No. 393,287
4 Claims. (Cl. 46—32)

1. A high chair device, comprising bracket arms, oppositely arranged U-shaped spring clamps rigidly carried by the lower ends of the bracket arms and adapted to clamp over the outer edges of the tray of a child's high chair, a horizontal stringer connecting the upper ends

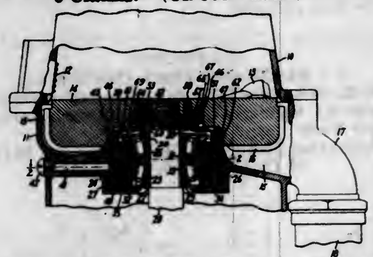


of the bracket arms, and toys movably mounted on said stringer.

2,282,882
GEL COMPOSITION AND METHOD OF PREPARATION
Winton I. Patnode, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application May 28, 1938, Serial No. 210,798
12 Claims. (Cl. 260—32)

1. A stable, non-fusible gel composition comprising the combination of at least 80 per cent by volume of a nonpolymerizable liquid halogenated aromatic hydrocarbon and a polymerized gelling agent consisting by volume of less than 20 per cent of the entire composition, said agent comprising an ester derivative of an acid selected from the group consisting of acrylic acid, and α-substituted acrylic acids, the said ester derivative containing at least two polymerizable double bonds in the molecule.

2,282,883
ANTIFRICTION BEARING
James H. Powers, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application February 1, 1940, Serial No. 316,769
6 Claims. (Cl. 308—187.1)



1. In an anti-friction bearing, the combination of two annular series of tapered rollers assembled so that the smaller ends of the rollers of each series are toward the smaller ends of the rollers of the other series, inner and outer raceways for said rollers, each of said series having a conical retaining cage and said cages being disposed with their smaller ends in contiguity, wicking extending into direct contact with said said cages adjacent the smaller ends of the cages for feeding oil to the latter, and means for supplying oil to said wicking.

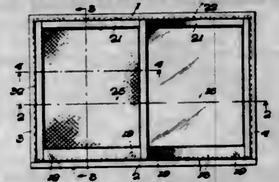
2,282,884
HOOD HINGE AND LATCH MECHANISM
Edward T. Ragsdale and Edward F. Reynolds, Flint, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 13, 1940, Serial No. 334,742
3 Claims. (Cl. 16—128.1)

1. In a latch for the hood door of an automotive vehicle, a stationary part of the vehicle on which the door rests in closed position, an inwardly directed flange at each side edge of the hood door where it rests on the stationary part of the vehicle, a plurality of brackets spaced longitudinally of the hood at each side thereof and inside the vehicle and mounted on said stationary part, a second plurality of brackets, one of each of said second brackets pivoted to one of



the first brackets, a hook on each of the second brackets capable of engaging the flange to hold the door in latched position, means at each side of the hood and inside thereof and operable from outside the vehicle simultaneously to move all the pivoted brackets at one side to cause the hooks to move out of contact with the flange to enable the hood door to be raised from one side.

2,282,885
WINDOW CONSTRUCTION
Antonin Raymond, New York, N. Y.
Application June 23, 1939, Serial No. 280,868
2 Claims. (Cl. 20—52)

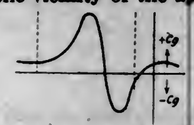


1. A window construction comprising a frame formed of spaced vertical members, a lower horizontal member and an upper horizontal member, the lower horizontal member comprising an inner, laterally-horizontal portion and an outer laterally-inclined portion, both of which extend the full longitudinal length of the frame, a plurality of relatively movable sashes slidably mounted on said laterally-horizontal portion for movement entirely within said frame and each having such dimensions that it covers approximately one-half of the opening in said frame, a second plurality of relatively movable sashes slidably mounted on said outer inclined portion for movement entirely within said frame and each having such dimensions that it covers approximately one-half of the opening in said frame, and a single screening sash slidably mounted on said laterally-inclined portion and having such dimensions that it covers approximately one-half of the opening in said frame.

2,282,886
RECEIVER AND AMPLIFIER CIRCUITS
Horst Rothe, Berlin-Charlottenburg, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application December 21, 1937, Serial No. 180,947
In Germany December 28, 1936
3 Claims. (Cl. 179—171)

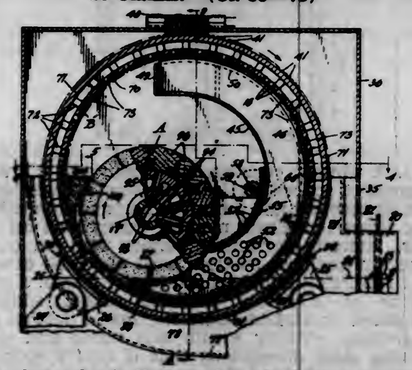
1. In an amplifying system for operation at frequencies sufficiently high so that the input conductance of a conventional amplifier tube has so large a positive value as to militate against

the development of signal voltage between its input electrodes, said amplifying system including an electron discharge tube having a cathode, a positive grid-like electrode, a control grid, and an output electrode arranged in the order stated, and means for exciting said tube electrodes, the method of operation which comprises adjusting the relative potentials applied to said electrodes to produce a variation of output electrode current with respect to control grid potential which in the vicinity of the applied grid po-



tential is definable by the equation $i=ke^n$ where n is less than 3/2 and the operating potential of said control grid is negative with respect to that of said cathode whereby the input conductance of said device is less than it would be if said potentials had been so chosen as to make a value of n equal 3/2, applicable in said equation, wherein i of the aforesaid equation refers to plate current, e refers to grid potential, and k is a constant.

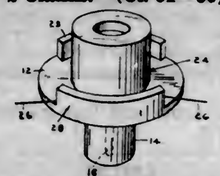
2,282,887
WOOD GRINDING MACHINE
Frederick W. Roberts, Lockport, N. Y.
Application December 30, 1938, Serial No. 248,468
25 Claims. (Cl. 83—75)



1. A wood grinding machine including a rotary grindstone, a feed ring arranged eccentrically about said grindstone with a portion of its inner surface in close proximity to the outer surface of said grindstone, and rotatable to feed wood against the surface of said grindstone, and a wood magazine located within said feed ring for conducting wood to the portion of the machine at which said stone and said ring converge and having a wood supporting wall spaced from said feed ring, said wall and said feed ring diverging to form a magazine of gradually increasing space between said wall and ring in the direction of movement of the wood.

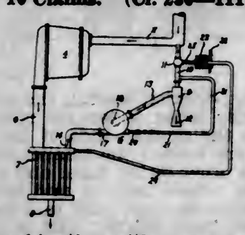
25. A method of grinding wood to produce wood pulp of different desired qualities at substantially the maximum capacity of the grinding machine, which includes varying both the area of that portion of the surface of the stone on which the wood is pressed, and the pressure with which the wood is pressed against the stone, in such manner that when the pressure is increased, the area is decreased and when the pressure is decreased, the area is increased. to place the desired load on the grindstone.

2,282,888
WAXING DEVICE
Eugene Russo, Hollis, N. Y.
Application March 9, 1939, Serial No. 260,754
2 Claims. (Cl. 91—36)



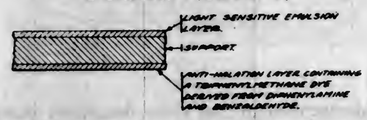
1. A thread waxing device adapted to be mounted on the spindle of the head of a sewing machine, said device comprising in unitary relation a support including a disk provided with an opening therethrough and upper and lower tubular members disposed centrally of said disk in fixed relation thereto at the upper and lower sides, respectively, thereof, said tubular members being in axial alignment and each having a bore in registry with said opening of the disk and providing a continuous bore therewith and with the bore of the other tubular member for the reception therein of said machine spindle, the upper side of said disk serving to carry a wax cylinder for rotation about said upper tubular member, the lower tubular member serving to support said disk above the sewing machine head, and a circumferentially extending flange on the upper surface of said disk in fixed relation thereto and spaced radially of said upper tubular member, said flange terminating in spaced ends disposed at opposite sides, respectively, of said upper tubular member in the direction of movement of said thread and extending above said upper side of the disk whereby to engage the thread at two points spaced longitudinally of the thread and to hold the latter in engagement with the bottom of the wax cylinder.

2,282,889
FLOW CONTROL DEVICE
Fred B. Schneider, Wesleyville, Pa., assignor to General Electric Company, a corporation of New York
Application March 20, 1941, Serial No. 384,233
10 Claims. (Cl. 230—111)

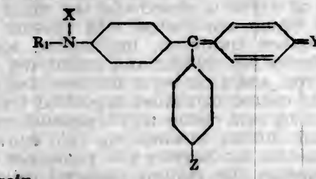


5. The combination with a pump an operating fluid connection to said pump and a conduit connected to the inlet of the pump, of means for controlling flow through said conduit comprising a casing having a centrally located outlet in one wall, an inlet arranged tangentially to another wall of the casing through which fluid to be pumped is admitted to the casing, said casing being free of obstructions between said inlet and said outlet a second inlet arranged in opposed relation to the first named inlet, and means for supplying controlling fluid to said second inlet in proportion to the flow of operating fluid to said pump to regulate the flow of fluid from said first inlet to said outlet.

2,282,890
ANTIHALO COATING FOR PHOTOGRAPHIC MATERIAL
Wilhelm Schneider and Richard Brodersen, Dessau, and Oswald Meissner and Max Coenen, Uerdingen, Germany, assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application May 14, 1940, Serial No. 335,142
In Germany March 28, 1939
4 Claims. (Cl. 95—8)

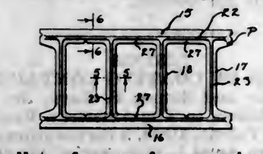


1. A photographic element provided with an antihalo coating comprising a dye corresponding to the general formula:



wherein
R_1 and R_2 represent members of the group consisting of benzene and benzyl radicals,
X stands for a member of the group consisting of hydrogen and alkyl,
Y stands for a bridge selected from the group consisting of tertiary and quaternary nitrogen atoms, and
Z stands for a member of the group consisting of hydrogen, nitro, sulfo and carboxyl groups.

2,282,891
PALLET FOR HOLLOW BLOCK MOLDING MACHINES
Lester E. Schwalbe, Wauwatosa, Wis.
Application December 10, 1938, Serial No. 244,913
4 Claims. (Cl. 25—41)

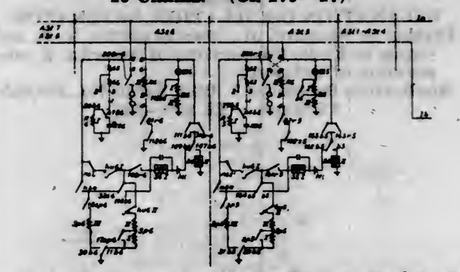


1. A pallet of open framework construction, comprising spaced parallel side rails and transversely extending connecting rails, the inner and outer edges of all of said rails being beveled inwardly and downwardly, the lower faces of the rails between said beveled edges being of a flat smooth formation.

2,282,892
DEHYDRATING CASTOR OIL
Alexander Schwarcman, Buffalo, N. Y., assignor to Spencer Kellogg and Sons, Inc., Buffalo, N. Y., a corporation of New York
No Drawing. Application May 15, 1941, Serial No. 393,691
5 Claims. (Cl. 260—407)

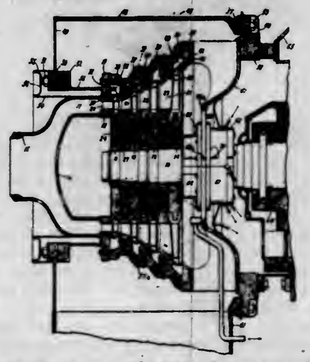
1. The process of dehydrating castor oil, which comprises mixing castor oil with about 0.05 to 0.1 per cent by weight of concentrated sulfuric acid, and rapidly heating the acidified oil to a temperature above 500° F.

2,282,893
TELEPHONE SYSTEM
Roman Schwartz, Berlin-Wilmersdorf, Germany, assignor to Fides Gesellschaft fur die Verwaltung und Verwertung von gewerblichen Schutzrechten m. b. H., Berlin, Germany
Application March 20, 1939, Serial No. 262,843
In Germany March 26, 1938
19 Claims. (Cl. 179—17)



1. In a telephone or like system, an exchange, a partly line terminating at said exchange, a plurality of stations on said line each having a device normally disconnected from the line, means at each of said stations operated at times while the device at that station is disconnected from the line to transmit over said line to the exchange impulses characteristic of that particular station, means at the exchange controlled by said impulses for transmitting over the line a selecting impulse characteristic of said station, and means at each station for connecting up the device at that station responsive only to the receipt of a selecting impulse characteristic of that station.

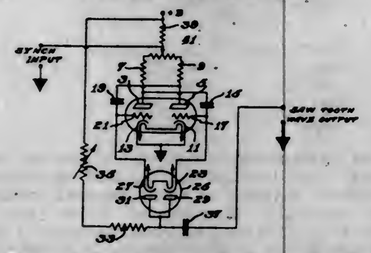
2,282,894
ELASTIC FLUID TURBINE
Lucian A. Sheldon, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 2, 1940, Serial No. 327,381
4 Claims. (Cl. 253—69)



1. Elastic fluid turbine comprising an inner casing composed of a plurality of rings bolted together, an outer casing enclosing the inner casing, a plurality of diaphragms each having an outer ring, a plurality of circumferentially spaced radial pins secured to inner casing rings and slidably projecting into radial openings of the outer diaphragm rings for centering and supporting the diaphragms and permitting relative radial expansion between the diaphragms and the inner casing, the inner casing and the outer diaphragm rings forming annular grooves

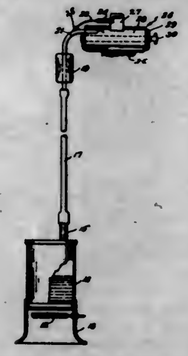
for receiving moisture from fluid passing through the turbine, and sealing strips connected between corresponding outer diaphragm rings and inner casing rings to prevent fluid from bypassing a diaphragm along the inner surface of the casing.

2,282,895
RELAXATION OSCILLATION GENERATOR
Francis H. Shepard, Jr., Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 7, 1940, Serial No. 369,059
8 Claims. (Cl. 250—36)



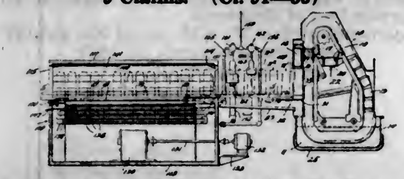
8. An oscillator for producing a sawtooth wave comprising in combination a pair of discharge devices each having a cathode, a control electrode, and an anode, an electron storage device connected between the anode of each of said discharge devices and the control electrode of the other discharge device, and a pair of unilateral conducting impedances for connecting said control electrodes to a source of potential positive with respect to said cathodes.

2,282,896
DEVICE FOR HAIR WAVING
Charles P. Simas, Taunton, Mass.
Application May 14, 1941, Serial No. 393,375
2 Claims. (Cl. 132—36)



1. A steam applicator for use in hair waving comprising a flexible steam conduit portion, a rigid conduit portion connected therewith having an intermediate rectangular bend and equipped with a non-heat conductive hand piece, the extremity of said rigid portion adapted to be inserted within a hair waving clip, and a clasp having a flexible element secured to said rigid portion with a capability of adapting movement with respect thereto and adapted to be engaged with a hair waving clip to hold said rigid conduit portion in place within said clip.

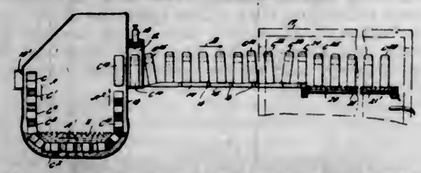
2,282,897
APPARATUS FOR COATING CONTAINERS
Ira J. Snader and James F. Earp, Jr., Detroit, Mich., assignors to The American Paper Bottle Company, Toledo, Ohio, a corporation of Ohio
Application October 30, 1937, Serial No. 172,025
9 Claims. (Cl. 91—55)



1. Mechanism of the class described comprising, in combination, a container handling device for placing bottom end lowermost upon a conveyor, an open topped tubular paper container the bottom of which is closed and the inner wall surfaces of which are coated with coating material in molten condition, mechanism spaced from said device for chilling and solidifying such molten coating, and a conveyor for receiving such an interiorly coated container deposited thereon at one point by said device and transmitting the same to said chilling mechanism, said conveyor including means for heating the container bottom to maintain the molten material collected thereon in molten condition and means to rock the container as it advances so that such molten material will be caused to flow over all areas of the container bottom.

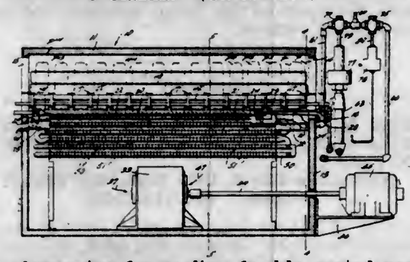
6. Mechanism of the class described comprising, in combination, means for applying to the interior wall surfaces of a tubular paper container, the bottom of which is closed, a coating of a molten coating material and thereafter inverting the container to drain the same, means for thereafter disposing the interiorly coated container in a predetermined position with open end uppermost, and means for promptly introducing into the container after it is so drained and positioned a measured quantity of molten coating material to supplement the coating previously applied and form a thicker coating over the surface of the bottom.

2,282,898
METHOD OF COATING CONTAINERS
Ira J. Snader and James F. Earp, Jr., Detroit, Mich., assignors to The American Paper Bottle Company, Toledo, Ohio, a corporation of Ohio
Application April 1, 1939, Serial No. 265,522
9 Claims. (Cl. 117—95)



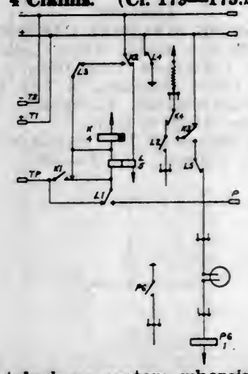
6. The method of coating a paper container having a flat closed end or bottom and an open end, which comprises dipping the container in a bath of molten material which solidifies upon cooling, draining the same, disposing the container with its open end uppermost, introducing a supplementary body of liquid coating material into the interior of the container while the previously applied coating remains liquid, and rocking the container to distribute the coating material over the bottom thereof.

2,282,899
APPARATUS FOR COOLING FRESHLY COATED ARTICLES
Ira J. Snader and James F. Earp, Jr., Detroit, Mich., assignors to The American Paper Bottle Company, Toledo, Ohio, a corporation of Ohio
Original application October 30, 1937, Serial No. 172,025. Divided and this application December 8, 1939, Serial No. 308,276
5 Claims. (Cl. 62—102)



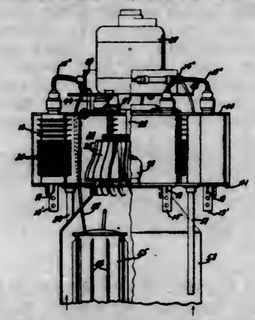
1. Apparatus for cooling freshly coated paper containers including a chamber having spaced apertures through which containers may be introduced and discharged, a conveyor having means to push containers without restraining them against vertical movement, an elongated pan for a chilled liquid underlying the conveyor to receive the lower ends of containers being advanced by said conveyor, and means disposed in said pan and extending longitudinally thereof beneath the normal liquid level, said means being adapted to slidably support the bottoms of containers which sink through the liquid.

2,282,900
TELEPHONE SYSTEM
Rudolph Frank Stehlik, Antwerp, Belgium, assignor to Associated Telephone & Telegraph Company, Chicago, Ill., a corporation of Delaware
Application April 13, 1940, Serial No. 329,404
In Great Britain May 22, 1939
4 Claims. (Cl. 179—175.2)



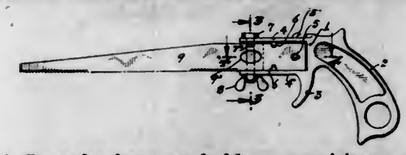
1. In a telephone system wherein means are provided for automatically cutting a telephone line out of service in case a low resistance shunt persists thereon and making certain electrical connections thereto, a test operator's position, test switches controlled from the position to seize such lines, means on said line controlled from said position over said switches for causing said electrical connections to be removed from a seized line, and means controlled from said position for testing said line independently of said connections while said shunt remains thereon.

2,282,901
ELECTRONIC APPARATUS
Harry C. Steiner, Scotia, and Eugene F. Peterson, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application November 16, 1940, Serial No. 365,936
7 Claims. (Cl. 250—27.5)



1. An improved arrangement for electronic power conversion apparatus comprising a plurality of electronic discharge devices grouped around a given center, a centrifugal fan having its axis of rotation at least approximately coincident with said center, structure cooperating with said discharge devices to define a generally cylindrical chamber enclosing the fan, the chamber being formed to assure that air discharged by the fan shall escape from the chamber mainly by passage in proximity to the discharge devices, and an inlet to the chamber for maintaining a supply of air to the fan.

2,282,902
HACKSAW
Max Sultan, Brooklyn, N. Y.
Application January 25, 1940, Serial No. 315,496
2 Claims. (Cl. 145—108)

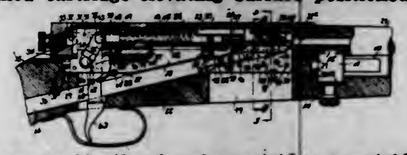


1. In a hacksaw, a holder comprising a primary member carrying a forwardly projecting web, plates carried by the web at its top and bottom and projecting laterally of both faces of the web, the plates projecting forwardly of the web, the projecting portions of the plates being formed with aligned apertures, lug projections carried by the web at each side thereof and a clamping bolt passing through the aligned apertures and having a blade engaging shoulder adapted to engage an edge of a blade in opposition to the bearing action upon the opposite edge of the blade provided by one of the plates.

2,282,903
TUBULAR-MAGAZINE AUTOMATIC FIREARM
Carl G. Swebilius, Hamden, Conn., assignor to Western Cartridge Company, New Haven, Conn., a corporation of Delaware
Application June 21, 1939, Serial No. 280,222
4 Claims. (Cl. 42—17)

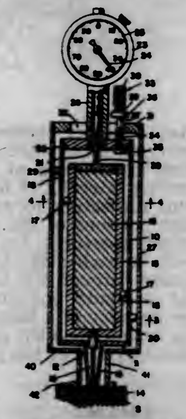
1. A tubular-magazine automatic firearm including in combination: a barrel; a receiver-unit extending rearwardly from the said barrel

and having a downwardly-extending passage therein; a breech-bolt reciprocating in the said receiver-unit; a stock associated with the said barrel and receiver and extending rearwardly beyond the latter; cartridge-elevating means located beneath the said breech-bolt in the downwardly-extending passage in the said receiver-unit, the said cartridge-elevating means comprising two vertical side-plates extending substantially parallel with each other and spaced laterally from each other in a direction transverse of the firearm-structure and each having on its inner face a forwardly-and-upwardly-inclined cartridge-elevating surface positioned to



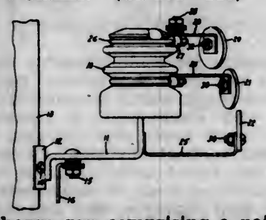
be engaged by the rim of a cartridge, a cartridge-elevating plate having a forwardly-and-upwardly-inclined upper edge and spaced intermediate the two said side-plates, and spacing-means holding the said cartridge-elevating plate in substantial parallelism with the two said side-plates and spaced away from the respective inner faces of each thereof; and a tubular magazine located in the portion of the said stock to the rear of the said receiver and having a cartridge-delivery opening adjacent its forward end positioned to deliver cartridges to the space between the two said side-plates of the said cartridge-elevating means and upon the upper surface of the cartridge-elevating plate thereof.

2,282,904
DUROMETER
Clark A. Tea, Detroit, Mich., assignor to Insulation Development Corporation, Monroe, Mich., a corporation of Michigan
Application March 18, 1940, Serial No. 324,667
4 Claims. (Cl. 265—12)



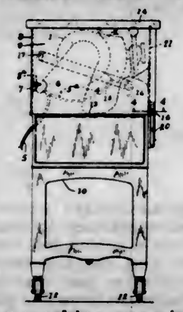
1. In a hardness testing instrument, a tubular member having a reference foot at the lower end engageable with the stock to be tested, a tubular container slidable in said member and containing a weight normally urging the container in a direction toward said foot, ball bearings located adjacent opposite ends of the container and positioned between the side walls of the container and tubular member, a pin extending downwardly from the bottom of the container through the reference foot to a position beyond the plane of said foot for engagement with the stock to be tested, an outer tubular member supported for movement relative to the first named tubular member and having a portion surrounding the reference foot for engagement with the stock to properly position the reference foot on the stock, and ball bearings located adjacent opposite ends of the outer tubular member and positioned between the walls of the latter member and said first named member.

2,282,905
DISCHARGE GAP
Harold M. Towne, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application July 9, 1940, Serial No. 344,521
7 Claims. (Cl. 174—140)



1. A discharge gap comprising a pair of substantially circular electrodes, an insulating support for said electrodes, means for adjustably mounting said electrodes eccentrically thereof on said support whereby the spacing between said electrodes may be varied by rotating one of said electrodes relative to the other, said electrodes being arranged in a staggered relation about a substantially vertical axis of said support so that the adjacent circular surfaces of said electrodes diverge upwardly in all positions of adjustment of said electrodes.

2,282,906
IRONING MACHINE CABINET
Edmund J. Te Pas, Rocky River, Lelio A. Bottinelli, East Cleveland, and John J. McCabe, Cleveland, Ohio, assignors to The Apex Electrical Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application March 16, 1933, Serial No. 661,002
3 Claims. (Cl. 45—68)



1. An ironing machine comprising, a supporting structure, ironing means carried thereby, a box-like cover for said ironing means, and means comprising cover guideways having cooperating relatively movable parts secured respectively to said cover and to said supporting structure and straps pivotally connected to said cover and to said supporting structure for securing said cover to said structure for movement to cover and uncover said ironing means.

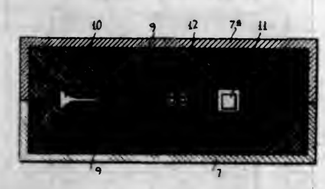
2,282,907
PARASITICIDE
William P. ter Horst, Packanack Lake, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application May 1, 1941, Serial No. 391,347
13 Claims. (Cl. 167—33)

1. An insecticide, fungicide and germicide preparation containing as an active constituent, an alpha-aroyl beta-amino-ethane compound selected from the class consisting of chemicals of the formula

$$R—CO—CH(R')—CH_2—Y$$

where R is an aryl or chloroaryl group; R' is hydrogen or alkyl; and Y is the residue of an amine from the class consisting of primary and secondary amines, said amine residue being joined to the adjacent methylene group through the amine nitrogen atom, and water-soluble salts of such chemicals.

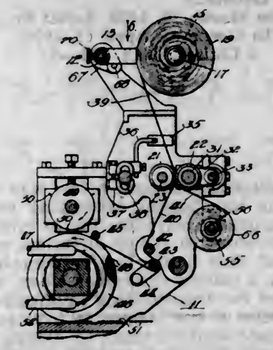
2,282,908
INTERNALLY CUSHIONED BOX
Edward M. Thompson, Excelsior, Minn.
Application March 21, 1940, Serial No. 325,189
1 Claim. (Cl. 206—1)



A device of the kind described involving a container made up of hingedly connected box-like sections having rims that contact when the container is closed, and in said sections cushion pads of elastic material in the nature of sponge rubber, the opposing surfaces of said pads lying in the planes of the contacting rims of said sections and being substantially smooth and unbroken and the said pads being of such thickness that when the container is closed, the flat smooth opposing surfaces of the two pads will be brought substantially together and will thereby engage very small articles, the elasticity of said pads being very great so that large articles will be embedded therein when the container is closed.

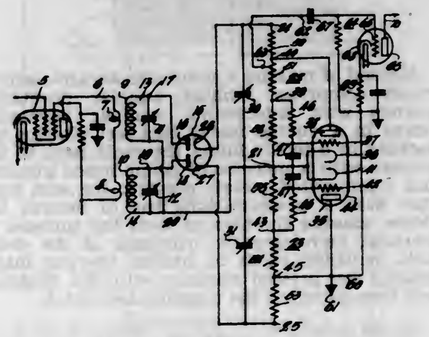
2,282,909
SLITTING AND REWINDING MECHANISM
Arthur R. Thiersch and Arthur C. Wirth, Chicago, Ill., assignors to Carton Finishers, Inc., Chicago, Ill., a corporation of Illinois
Application April 23, 1941, Serial No. 389,874
2 Claims. (Cl. 164—61)

2. In a mechanism of the character described, a rod for rotatably supporting a roll of thin, flexible, sheet material, means for applying a frictional drag to the roll during unwinding, a pair of feed rollers between which the sheet is drawn under tension to unwind the roll, means for slitting the sheet lengthwise into a pair of strips before reaching the feeding rollers, a rewind shaft on which one of the strips is rewound driven by a power source common to the rollers and shaft, friction clutch means interposed between the source and shaft for automatically varying the rotation speed of the shaft and maintaining a constant tension on the strip being



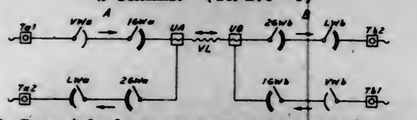
rewound as the rewound roll increases in diameter during the rewinding, knife means for transversely severing the other strip into a succession of strip pieces, and means for drawing said other strip under tension into proximity to the knife means.

2,282,910
VARIABLE FREQUENCY DETECTOR SYSTEM
Leland E. Thompson, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 31, 1940, Serial No. 363,744
7 Claims. (Cl. 250—27)



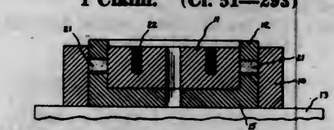
1. The combination with a frequency modulated signal conveying circuit, of a frequency discriminator network coupled thereto, balanced signal rectifier means connected with said network, a balanced output circuit for said rectifier means including two balanced impedance branch circuits having a common center terminal connection, means providing the anode-cathode impedance of a controlling electric discharge device across a portion of each of said branch circuits in balanced relation, grid control means for varying said anode-cathode impedances having balanced control connections on each of said branch circuits, and means providing a balanced output circuit connection with each of said branch circuits.

2,282,911
TELEPHONE SYSTEM
Herbert Töpfer and Erich Ehricke, Berlin-Siemensstadt, Germany, assignors to Fides Gesellschaft für die Verwaltung und Verwertung von gewerblichen Schutzrechten mit beschränkter Haftung, Berlin, Germany, a corporation of Germany
Application March 30, 1939, Serial No. 264,878
In Germany April 12, 1938
2 Claims. (Cl. 179—9)



1. In a telephone system, a two way two conductor trunk line, means for seizing said trunk line and automatic switches for extending connections thereover in either direction, means on each end of said trunk line responsive to impulses from a calling subscriber when the trunk line is seized for transmitting impulses of alternating current of one frequency over said trunk line to operate said switches to extend connections thereover to called subscribers, and means on each end of said trunk line operated when a called subscriber responds to the completion of a connection thereover for transmitting an impulse of alternating current of another frequency over said trunk line.

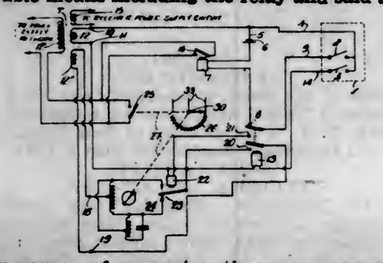
2,282,912
GRINDING WHEEL
Edward Van der Pyl, Holden, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application September 11, 1939, Serial No. 294,270
1 Claim. (Cl. 51—293)



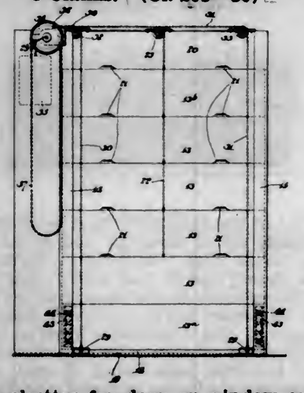
Method of making a composite abrasive article which comprises forming annular dovetailed grooves with intervening annular dovetailed ridges in a ductile metal backing; placing the backing in a mold; filling the mold next to the grooves with a mixture of comminuted abrasive and comminuted metal; pressing the said mixture with a pressure sufficient to deform the ridges, causing the area of their top surfaces to increase, increasing the overhang of the dovetails, reducing them in height, thereby interlocking the pressed mixture with the backing; and then sintering the comminuted metal.

2,282,913
RADIO RECEIVER
Johannes Antonius van Lammeren and Wytse Hendrik van der Mey, Eindhoven, Netherlands, assignors to Radio Corporation of America, New York, N. Y.
Application June 21, 1940, Serial No. 341,676
In the Netherlands June 21, 1939
10 Claims. (Cl. 250—20)

1. In signalling apparatus, a source of operating current for said apparatus, a combined volume control and on and off switch of the type which, in the vicinity of its minimum volume position, acts to operate the switch to its on position when the volume control is operated in a direction to increase volume and to its off position when the volume control is operated in a direction to decrease volume, a reversible driving means for operating the volume control in either direction, an auxiliary source of current, a relay, operable means including the relay and said auxiliary source of current acting upon operation to connect the motor to said first named source of operating current in a sense to operate the volume control in a volume increasing direction to thereby operate the on and off switch to the on position, and means associated with the motor and effective after said on and off switch is operated to the on position for rendering said relay inoperative.



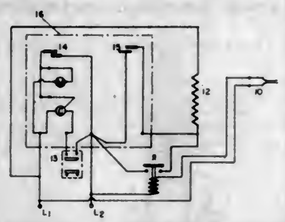
2,282,914
SHUTTER
Henry M. Vetterlein, Blasdell, N. Y., assignor of one-third to Henry Penn Burke, Philadelphia, Pa., and one-third to Harvey L. Hirst, Riverton, N. J.
Application September 28, 1939, Serial No. 296,887
5 Claims. (Cl. 268—30)



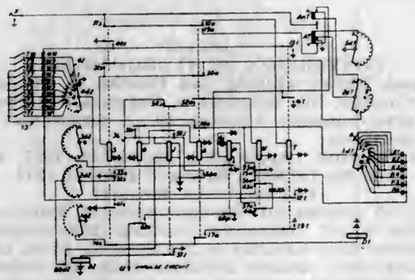
1. In a shutter for door or window openings, a curtain comprising a plurality of panels adapted to be raised and lowered, individual counterweights for each of said panels, a cable extending from each of said panels to its respective counterweight, a pulley for each of said panels over which its respective cable extends, a shaft on which said pulleys are mounted, and means disposed between each adjacent pair of said pulleys for imparting a definite frictional drag therebetween.

2,282,915
HEAT CONTROL SYSTEM FOR PRESSURE CASTING MACHINES
Daniel D. Whyte, New York, N. Y., assignor to Lester Engineering Company, Cleveland, Ohio, a corporation of Ohio
Application September 19, 1939, Serial No. 295,613
2 Claims. (Cl. 219—20)

1. In a pressure casting machine wherein successive charges of material are heated to a predetermined temperature prior to being injected into a die, a casting cylinder into which such successive charges are measured, an electric heating element for heating said cylinder, a circuit including said element, a switch in said circuit, a thermostat adjacent said cylinder operative to close said switch when the temperature of said cylinder reaches a predetermined minimum, a second circuit including said heating element, time control means for said second circuit operative to close said second circuit for a predetermined period of time, and means associated with such casting machine for automatically setting said time control means in operation.

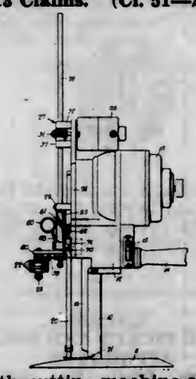


2,282,916
IMPULSE TRANSMITTER
Fritz Wolf, Birkenwerder, near Berlin, Germany, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany
Application December 6, 1937, Serial No. 178,383
In Germany December 12, 1936
2 Claims. (Cl. 177—380)



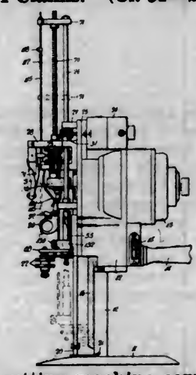
1. In combination, two condensers, means for placing a variable charge upon one of the condensers, a charging circuit for the other condenser, a discharge path for said two condensers, means for connecting the other condenser alternately to said charging circuit and to said discharge path, said last means effective to disconnect said other condenser from said charging circuit whenever it is connected to said discharge path and to disconnect said other condenser from said discharge path whenever it is connected to said charging circuit, means in said charging circuit for increasing the charge upon said other condenser by a predetermined increment each time same is connected to said charging circuit, thereby to raise the potential of said other condenser in substantially uniform steps, and a device in said discharge circuit operated when the charge upon said other condenser reaches an amount dependent upon the charge upon said one condenser.

2,282,917
CLOTH CUTTING MACHINE
Martin Zawistowski, Huntington, N. Y.
Application March 9, 1940, Serial No. 323,111
13 Claims. (Cl. 51—249)



2. In a cloth-cutting machine of the type having an upright knife, a sharpening device for said knife comprising a sharpening wheel, said wheel being movable towards and away from sharpening contact with said knife, a source of power for rotating said wheel, a transmission between said source of power and said wheel for rotating said wheel for knife sharpening operations, and a friction drive for yieldably urging said wheel in sharpening contact with said knife.

2,282,918
CLOTH CUTTING MACHINE
Martin Zawistowski, Huntington, N. Y.
Application April 11, 1941, Serial No. 388,020
11 Claims. (Cl. 51—249)



1. A cloth cutting machine comprising an upright knife, a sharpening device for said knife, and means for moving said device along said knife, including a lead screw, a feed connection between said screw and said sharpening device, a pair of clutch gears loosely mounted on said screw, means for driving said gears in opposite directions, and a clutch collar on said lead screw rotatable therewith and slidable therealong between said gears into clutch engagement with either one of said gears.

2,282,919
BORING BAR
Edward A. Zempel, Milwaukee, Wis.
Application December 30, 1940, Serial No. 372,385
6 Claims. (Cl. 77—58)

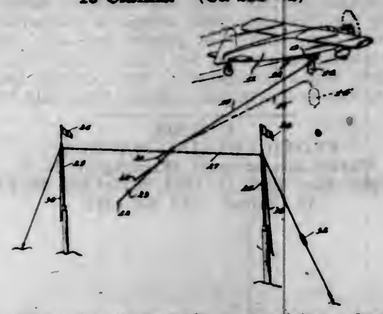
1. A boring tool comprising, a bar having an

opening therein and a cross slot on one side communicating with the opening, and a detachable unit for association with the bar including a carrier having a barrel fitted in the opening and a crosshead integral therewith fitted in the slot,



a cutting tool slidably mounted in the barrel and extending outward beyond the crosshead, means for adjusting the cutting tool in the barrel, and means for detachably and firmly clamping the unit in the bar.

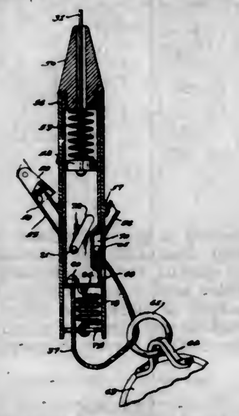
2,282,920
AIRPLANE PICKUP AND DELIVERY APPARATUS
Lytle S. Adams, Irwin, Pa., assignor to All American Aviation, Inc., a corporation of Delaware
Application October 8, 1938, Serial No. 234,017
13 Claims. (Cl. 258—1)



4. An airplane apparatus comprising a fuselage and disconnectable means for suspending a load to be delivered beneath the fuselage, said means including a severable member connected to the fuselage, a cable having an end adapted to be trailed below the fuselage, a cutting device adjacent to said severable member and supported by the fuselage for severing said severable member, said cutting device comprising a knife operably mounted thereon and a movable arm for operating it, disengageable means connecting said arm and cable for supporting the latter adjacent to the fuselage while permitting the free end of said cable to trail below the fuselage, and means at the free end of said cable to enable it to engage a contact member crossing its line of flight above the ground, said movable arm operating upon engagement of the trailing end of the cable with said contact member to sever said severable member and release the load and cable.

2,282,921
AIRCRAFT PICKUP AND DELIVERY APPARATUS
Lytle S. Adams, Irwin, Pa., assignor to All American Aviation, Inc., a corporation of Delaware
Application November 12, 1938, Serial No. 240,200
15 Claims. (Cl. 258—1)

5. A grapple for automatically delivering articles from moving aircraft comprising a hollow body adapted to be secured to a trailing cable at one end and provided with a flexible tie member for supporting the article to be delivered at the other end, a recess in said body for receiving one end of said tie member, means slidably and rotatably disposed on said hollow body for contacting a rope-like tripping element, said contacting means having a portion normally overlying said recess to retain the end of the tie member posi-



tioned therein, and means for normally restraining said contacting means from moving so as to uncover said recess sufficiently to permit said tie member to be withdrawn therefrom, said contacting means and hollow body being connected by means providing for simultaneous sliding and rotating movement upon the impact of the former against a ropelike body while the latter is being trailed from an aircraft.

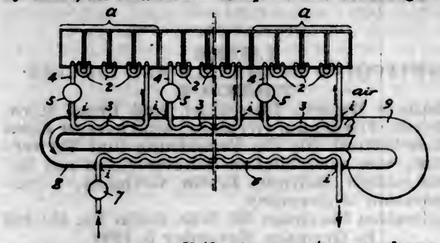
2,282,922
CONVERSION OF HYDROCARBONS
Jacob Elston Ahlberg and Charles L. Thomas, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application March 20, 1937, Serial No. 132,092. Renewed June 26, 1939
3 Claims. (Cl. 196—52)

3. A process for the conversion of hydrocarbons which comprises cracking hydrocarbons heavier than gasoline in the presence of an alumina-silica catalyst resulting from the co-precipitation of hydrated aluminum and silicon oxides in an aqueous menstruum containing ammonium hydroxide.

2,282,923
TEMPERATURE CONTROL OF STORAGE BATTERIES
Cornelius Ambruster, Roslyn, Pa., assignor to The Electric Storage Battery Company, Philadelphia, Pa., a corporation of New Jersey
Application June 4, 1940, Serial No. 338,681
1 Claim. (Cl. 136—161)

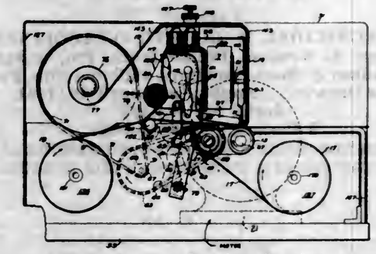
Apparatus for controlling the temperature of a high potential storage battery having a comparatively large number of cells electrically connected in series, comprising a heat absorber in each cell electrically insulated from the electrolyte of its respective cell, means for mechanically connecting in series the absorbers in adjacent cells in groups to form a plurality of small independent groups of heat absorbers, a temperature

exchanger for each group, each exchanger being electrically insulated from the other exchangers, means for connecting each temperature exchanger and its respective group of absorbers to form separate cooling systems, means for circulating cooling fluid through each of said separate systems, an additional temperature exchange ele-



ment common to all the temperature exchangers of said separate systems, and means for circulating an insulating fluid in respect to all the temperature exchange elements whereby the maximum potential to which the component parts of said temperature controlling apparatus is subjected is substantially less than the battery potential.

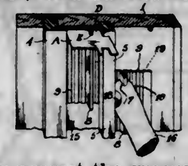
2,282,924
PAPER FEED DEVICE
Maurice Artzt, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Continuation of application Serial No. 52,353, November 30, 1935. This application June 28, 1938, Serial No. 216,208
2 Claims. (Cl. 234—70)



1. In a recorder mechanism having a rotating helical member and a printer bar for engaging and marking a recording strip, feed means including the combination of means for supporting a roll of recording strip, a constant speed strip feed roll and idler for feeding said strip from said roll between said helical member and printer bar in the same direction as paid member tends to feed it, and means for rotating said feed roll at a peripheral speed less than that of said helical member so that said helical member exerts a frictional pulling force on said recording strip overcoming any tendency of said printer bar to retard said strip, whereby said strip is fed through said recorder at a constant speed determined by the speed of said feed roll.
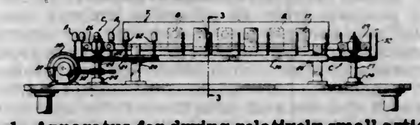
2,282,925
WEATHER STRIP INSTALLER'S GAUGE
Elmer D. Barringer, Cleveland Heights, Ohio
Application January 13, 1941, Serial No. 374,281
3 Claims. (Cl. 33—180)

1. In gauge means for weatherstrip installation upon windows, doors, or the like, a gauge device comprising a body provided at one edge with a tool bit or plow gauge member and formed at said edge spaced from said plow gauge member with a groove gauge member shaped to fit in the groove formed by the tool bit or plow, said plow gauge member having a surface shaped to contact an edge surface of the window sash or like member, said surface located on plow



gauge member nearest the groove gauge member to gauge the position of the groove when the groove gauge member is positioned therein the distance between the inner side of the plow gauge member and the more remote edge of the body being substantially equal to the thickness of a standard window sash or like member.

2,282,926
APPARATUS FOR BAKING ENAMEL
Franklin S. Bates, Redding, Conn., assignor to Interchemical Corporation, New York, N. Y., a corporation of Ohio
Application April 5, 1939, Serial No. 266,075
2 Claims. (Cl. 219—19)

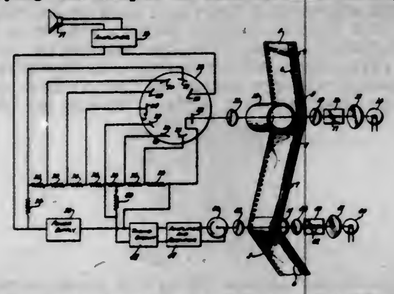


1. Apparatus for drying relatively small articles coated with enamel, comprising a tunnel having a continuous and uniform reflecting surface on the inside thereof and a narrow slot-like opening in a wall thereof; a plurality of sources of infra-red radiation disposed within said tunnel and adjacent said continuous reflecting surface; conveyor means; carrier members mounted on said conveyor means and projecting through said narrow slot-like opening into said tunnel; and means for rotating said carrier members, said continuous and uinform reflecting surface cooperating with said sources of infra-red radiation and being so constructed and shaped as to concentrate the infra-red rays over the entire outside surfaces of the coated articles carried by said carrier members.

2,282,927
SOUND FILM SYSTEM
Cecil N. Batsel, North Hollywood, Calif., assignor to Radio Corporation of America, a corporation of Delaware
Application November 22, 1940, Serial No. 366,589
10 Claims. (Cl. 179—100.3)

1. Motion picture apparatus comprising means for producing a light beam, means for modulating said light beam in accordance with sounds to be reproduced, a photoelectric electron multiplier responsive to said modulated light beam and provided with a photoelectric cathode, a plurality of multiplying electrodes and a collecting electrode connected to the output circuit, a source of power supply connected to the electrodes of said multiplier, a second light beam, means for modulating said second beam, and a photocell responsive to said second modulated light beam and connected to said power supply and to one of said multiplying electrodes for

varying the output of said electron multiplier

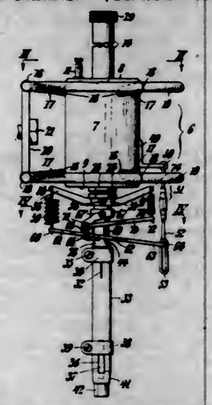


irrespective of the modulations of said first-mentioned light beam.

2,282,928
WATER-SOLUBLE CONDENSATION PRODUCTS
Rudolf Bauer, Cologne-Deutz, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application April 3, 1939, Serial No. 265,779. In Germany April 9, 1938
15 Claims. (Cl. 260—49)

1. As new products the water-soluble condensation products from an aromatic hydroxy compound containing phenolic-hydroxyl, an unsaturated carbonyl compound selected from the group consisting of unsaturated aldehydes and ketones, and a member of the group consisting of sulfurous acid and the acid salts thereof, the said condensation products having been prepared by conducting the condensation in an aqueous acid medium until the resulting products are water soluble.

2,282,929
RAIL MARKING DEVICE
Arthur E. F. Billstein, Altoona, Pa., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 9, 1940, Serial No. 364,956
13 Claims. (Cl. 234—70)



1. In means of the class described a marking device comprising an exciter coil, a core assembly of relatively telescopic components axially through the coil, a holder for a crayon at the outer end of one of the core components, means defining a constant active stroke for the core assembly, means operative to release the other core component just prior to completion of the core assembly active stroke for movement of the crayon into contact with the body to be marked, and recoil means for returning the core assembly to initial position when the exciter coil is de-energized.

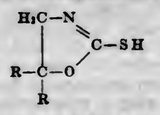
2,282,930
SWITCHING MECHANISM AND CIRCUIT THEREFOR
Johannes Boysen, Dusseldorf, and Ernst Horn, Berlin-Friedenau, Germany, assignors to Fides Gesellschaft für die Verwaltung und Verwertung von gewerblichen Schutzrechten mit beschrankter Haftung, Berlin, Germany, a corporation of Germany
Application December 29, 1939, Serial No. 311,436
In Germany November 5, 1938
5 Claims. (Cl. 179—27.52)



1. An arrangement for controlling the operation of a pair of operating coils, comprising a relay responsive to incoming impulses, a second relay controlled by the first relay, locking circuits for said coils controlled by said second relay, a pair of sets of contacts operated by the first relay, and a member controlled by said second relay for causing the selective actuation of the contacts of the first relay when said relay responds to impulses.

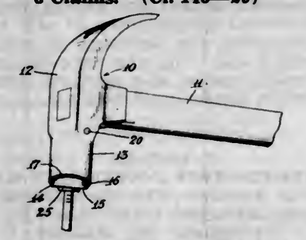
2,282,931
INSECTICIDAL MERCAPTO-OXAZOLINES
Herman A. Bruson, Philadelphia, Pa., assignor to Röhm & Haas Company, Philadelphia, Pa.
No Drawing. Application April 19, 1941, Serial No. 389,333
3 Claims. (Cl. 167—33)

2. An insecticidal composition containing as an active ingredient a compound of the formula



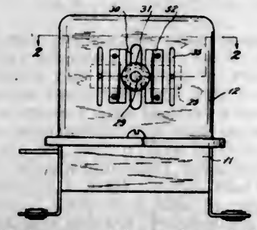
wherein R is a lower alkyl group.

2,282,932
SELF-ALIGNING HAMMER
Robert J. Burnett, Woodstock, Ill.
Application May 6, 1939, Serial No. 272,106
3 Claims. (Cl. 145—29)



1. A self-aligning hammer comprising, in combination, a handle, a hammer head at one end of the handle having a hollow tip portion projecting laterally relative to the handle, said tip portion having a partially spherical socket opening from the striking end thereof, a semi-spherical striker block bearing slidably in said socket and having a generally plane striking face of a diameter substantially corresponding to the end of said tip portion, and means within said tip portion for yieldably connecting said striker block in centered relation within said socket but permitting universal rocking movement of said striker so that said striking face may squarely engage a surface being hammered although the angle of approach is not perpendicular to said surface, the depth of said socket being such that said striker block projects sufficiently beyond the end of said tip portion to avoid direct contact between the tip portion and said surface during a hammer blow even though the striker block may be caused to rock substantially.

2,282,933
VOLTAGE REGULATOR AND THE LIKE
Lysle D. Cahill, Cleveland, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Application August 23, 1940, Serial No. 353,880
4 Claims. (Cl. 175—336)



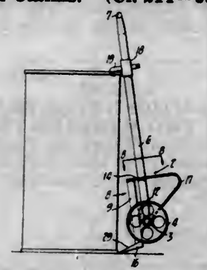
1. An electromagnetic device of the character described comprising a relay having a U-like frame and a core with a surrounding coil thereon between the arms of the frame and a movable armature extending across said arms and core, a removable housing of magnetic material enclosing the relay, a body of magnetic material mounted on a wall of the housing and arranged thereon relative to said frame and armature to form a portion of an auxiliary magnetic circuit which extends through the housing when the housing surrounds the relay, and means for shifting said body toward or away from said armature to vary the effectiveness of the auxiliary magnetic circuit.

2,282,934
MEANS FOR MAKING SHOES AND SLIPPERS
Dominick J. Calderazzo, New York, N. Y.
Application October 3, 1938, Serial No. 233,009
3 Claims. (Cl. 36—71)



1. A shoe or slipper insole that has been severed from a sole blank, comprising a fore portion, a heel portion and an interconnecting shank portion having an opening therein, said shank portion having substantially straight edges, a stiffening member underlying said heel and shank portions and conforming generally to the peripheral contours thereof with the exception of a protuberance extending from one side thereof beyond one of said straight edges of said shank portion to serve as an arch reinforcement for the assembled shoe, a strip of metallic material interposed between said insole and said stiffening member and a resilient member interposed between said insole and said metallic strip and disposed in said shank opening, said strip being pre-shaped to conform to the curvature of the arch of the foot, said stiffening member and said insole portion adjacent said strip being shaped to conform to the shape of said strip, and means for attaching said stiffening member to said insole.

2,282,935
HAND TRUCK
Oscar A. Carlson, Oakland, Calif.
Application April 24, 1940, Serial No. 331,331
4 Claims. (Cl. 214—65.4)



1. A truck for handling barrels and the like, comprising an axle with wheels thereon, a body carried by said axle and including a longitudinal member, a barrel engaging means slidably and frictionally mounted on said member and including a portion arranged for insertion within the chime at the top of the barrel and a portion to limit the extent of such insertion, and a barrel cradle having barrel supporting portions and transversely spaced toes with inclined upper surfaces arranged for engaging the bottom edge of the barrel, the length and pitch of said toe surfaces being such that when the barrel is moved transversely thereupon the barrel will move longitudinally a distance exceeding the amount which said barrel engaging means may be inserted within the barrel chime.

2,282,936
SUPPRESSION OF METAL CATALYSIS
Joseph A. Chenicek, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application April 29, 1940, Serial No. 332,271
6 Claims. (Cl. 44—9)

1. A method for suppressing the catalytic effect of metal compounds on olefinic distillates which comprises adding to the distillate a relatively small amount of a hydroxy-naphthaldehyde in which the oxygen atom of the aldehyde group has been replaced by an aminophenol group.

2,282,937
PREVENTION OF CORROSION IN ELECTRIC CAPACITORS
Frank M. Clark, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application October 2, 1940, Serial No. 359,410
9 Claims. (Cl. 175—41)

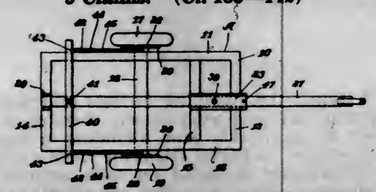
1. The method of preventing corrosion of metal members of an electrical device containing in operative relation to such parts a liquid composition having electrical resistivity within the

limits of 10^6 to 10^9 ohms per cm.^{3} which consists in associating said composition with less than 5 per cent of a substance which is capable of main-



taining in said composition free PO_4 radicals, and subjecting said device to the usual service conditions.

2,282,938
AUTOMATIC SLIDING POLE BRAKE CONTROL FOR TWO-WHEELED TRAILERS
Sherman William Clark, St. Paul, Minn.
Application January 31, 1940, Serial No. 316,563
5 Claims. (Cl. 188—142)



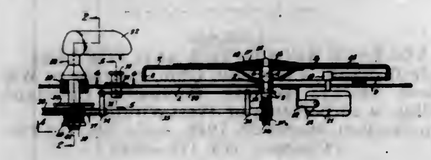
1. A trailer brake for use in combination with a trailer frame and supporting wheels embodying brakes, comprising a draw bar extending longitudinally of the trailer, frame means secured at each end to said trailer frame slidably supporting said draw bar for limited slidable movement, means secured to one of said frame means between the ends thereof and limiting movement of said draw bar, an equalizer bar pivotally secured to said draw bar and extending transversely therefrom, and means connecting each end of said equalizer bar to the brake operating mechanism so that slidable movement of said draw bar and equalizer bar will apply said brakes.

2,282,939
PICTURE AND MEMORANDUM HOLDER
Selden Irwin Clawson, Salt Lake City, Utah
Application September 11, 1940, Serial No. 356,294
2 Claims. (Cl. 40—153)



1. A detachable picture holder for application to the page of a book, said holder being formed of a strip of paper bent to engage around the upper and lower edges of the book page, said strip being lapped upon itself at one end to form a double thickness of paper, one of said thicknesses having an exposure opening therein and being attached along all except one of its edges to the other thickness to retain a photograph between the two thicknesses in registry with said exposure opening.

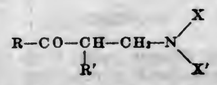
2,282,940
PHONOGRAPH RECORDING AND PLAYING DEVICE
James H. Clements and John T. Goodall, Detroit, Mich.
Application February 23, 1940, Serial No. 320,318
2 Claims. (Cl. 274—13)



1. A phonographic apparatus comprising a shaft supported for rotation about a vertical axis, a plate carried by said shaft and adapted to receive a record disc, a second shaft supported for rotation about a vertical axis, a stylus arm pivotally mounted on said second shaft for movement about a horizontal axis, a gear loosely mounted on said second shaft, frictional means connecting said gear to said second shaft, a bracket pivoted about the axis of said first shaft, a third shaft carried by said bracket, gearing connecting said first and third shafts, a gear on said third shaft adapted to mesh with said gear on the second shaft, spring means normally pivoting said bracket to a position meshing the gears of the second and third shafts, and manually operable means connected to said bracket for pivoting said bracket to a position where the gears of the second and third shafts are out of mesh.

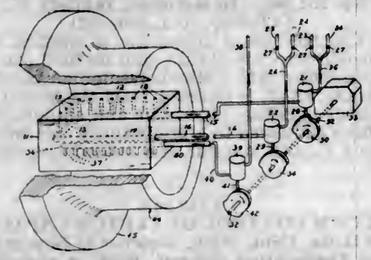
2,282,941
TREATMENT OF RUBBER
Clyde Coleman, Montclair, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application February 28, 1939, Serial No. 258,957
17 Claims. (Cl. 260—800)

2. A process of preserving rubber which comprises incorporating therein an N-disubstituted alpha-amino beta-acyl ethane having the general formula



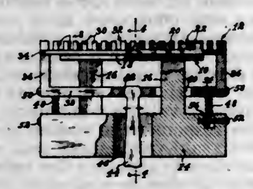
where N is nitrogen; X and X' represent disubstituents on the nitrogen selected from the group consisting of aliphatic hydrocarbon radicals, and aliphatic hydrocarbons that are part of a heterocyclic ring of which the said nitrogen is a member; R is a radical selected from the group consisting of an aryl, and an alkyl radical; and R' is a radical selected from the group consisting of hydrogen, an aryl, and an alkyl radical.

2,282,942
FLAME HARDENING
John J. Crowe, Westfield, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application April 2, 1940, Serial No. 327,407
14 Claims. (Cl. 148—21)



1. The method of flame hardening a metal work-piece, which method comprises heating a section of the work-piece above its critical temperature by applying intense heat to the surface of that section with a number of separate heat sources, starting the operation of some of said heat sources ahead of others to apply heat for longer periods to regions where the mass of the work-piece is heavier than at other regions, and quenching the work-piece while it is heated above its critical temperature.

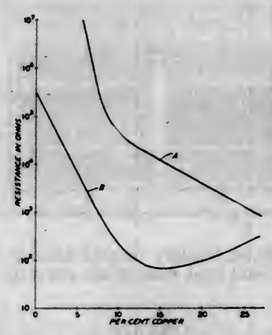
2,282,943
SHAVING APPLIANCE
Godfrey Dalkowitz, Brooklyn, N. Y., assignor to American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia
Application July 26, 1938, Serial No. 221,282
2 Claims. (Cl. 30—43)



2. In a dry shaver, a face engaging cutting member having a pair of spaced cutting areas each positioned at the top of an inverted channeled member and a flange projecting laterally outward from each of said channeled members, and a second cutting member of a shape complementary to the top of said first cutting member and adapted to support said first cutting member for sliding movement thereon, and means for effecting relative sliding movement of said members.

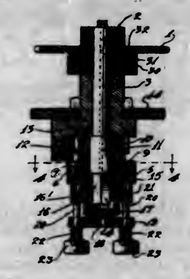
2,282,944
RESISTANCE COMPOSITION AND METHOD OF MAKING IT
Ernest F. Dearborn, Yonkers, N. Y., and Gerald L. Pearson, Towaco, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 23, 1940, Serial No. 336,734
14 Claims. (Cl. 201—76)

1. A resistance material consisting of a composition of metal-oxygen compounds, the metallic elements thereof consisting of manganese in excess of approximately 50 per cent and a remainder including copper, said copper not to



exceed approximately 25 per cent of said metallic elements.

2,282,945
INTERMITTENT FEEDING DEVICE
Daniel Douglas Demarest, Little Neck, N. Y., and Carl Berendt, East Orange, and William Karius, Irvington, N. J., assignors to Automatic Linker, Inc., Newark, N. J., a corporation of New York
Application August 1, 1940, Serial No. 349,214
3 Claims. (Cl. 74—130)

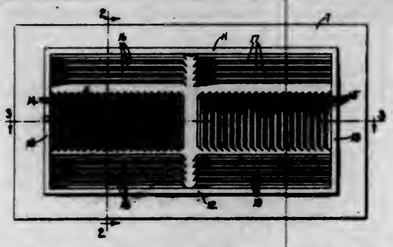


1. In a feeding device for automatic sausage linking machines, a wheel, a shaft to which the wheel is adapted to be connected, a cup member mounted for rotation with the shaft, a pinion rotatably mounted on the shaft, a rack engaging the pinion, a one-way clutch connection between said pinion and cup member to cause the cup member to rotate in one direction only, a braking device bearing against the cup member to resiliently resist rotation thereof, and a second one-way clutch device for providing the connection between the shaft and wheel and to limit the wheel to rotation in one direction only.

2,282,946
REGISTER
William C. De Roo, Holland, Mich., assignor to Hart & Cooley Manufacturing Company, Holland, Mich., a corporation of Delaware
Application February 12, 1940, Serial No. 318,598
5 Claims. (Cl. 98—40)

1. A register mounted vertically in a wall having a face and openings therein, grille bars adjacent one of said openings inclined to direct an air current relative to said face in an inclined horizontal plane toward one side of the register, grille bars adjacent another of said openings inclined to direct an air current relative to said face in and inclined vertical plane away from said first named air current, and grille bars ad-

jacent another of said openings to direct an air



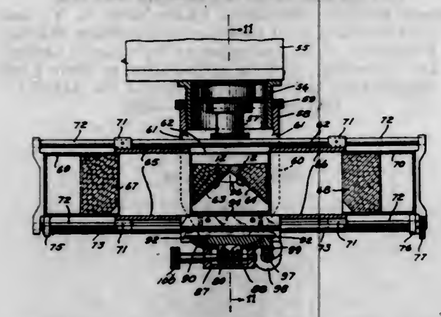
current inclined relative to said face in a direction toward said first named air current.

2,282,947

STEREOSCOPIC PHOTOGRAPHY AND PROJECTION

Ingvar E. de Sherbinin, Mount Vernon, N. Y.

Application May 1, 1939, Serial No. 271,017
18 Claims. (Cl. 88—16.6)



1. An optical attachment for stereoscopic photography and projection for use with a cinematographic apparatus having one lens, comprising a casing having a substantially centrally disposed aperture at the rear of the casing and double opposed apertures at the front of the casing, two optical units in the casing adapted to be located at opposite sides of and equidistantly from the optical axis of said lens, each unit being disposed to convey an image through the casing from one aperture to another, each of said units having three plane reflecting surfaces arranged to rotate the image approximately 90° in being conveyed through the unit, a support for the casing secured to the apparatus, means for movably securing the casing to the support with the rear aperture adjacent to and in alignment with the lens of the apparatus, said means comprising an intermediate supporting member on the support and movable about a vertical axis with respect to the support and a base member on the intermediate member and fixed to the casing and movable about a horizontal axis with respect to the intermediate supporting member, means for moving the intermediate supporting member with respect to the support, and means for moving the base member with respect to the intermediate supporting member, the arrangement being such that movement of the intermediate supporting member will move the casing about a vertical axis and thereby will effect vertical adjustment of the images, and movement of the base member with respect to the intermediate member will move the casing about a horizontal axis and thereby will effect horizontal adjustment of the images.

2,282,948

SOLUTION OF SULPHUR-CONTAINING ORGANIC CONDENSATION PRODUCTS

Otto Ewald Dietsel, Castrop-Rauxel, Germany, assignor to the firm: Ruhrgerswerke-Aktiengesellschaft, Berlin, Germany

No Drawing. Application January 23, 1939, Serial No. 252,509. In Germany January 25, 1938
2 Claims. (Cl. 260—32)

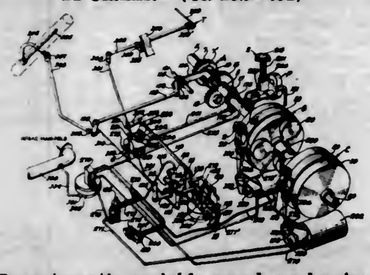
1. The method of preparing a solution of an olefin-polysulphide plastic, said method comprising dissolving said olefin-polysulphide plastic in a solvent which is selected from the group consisting of pyridine, piperidine and chinoline, and has been subjected to a preliminary treatment by heating it with sulphur and subsequent distillation.

2,282,949

VACUUM CONTROL OF CLUTCH CAPACITY

John Dolza, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application October 18, 1937, Serial No. 169,535
14 Claims. (Cl. 192—.01)



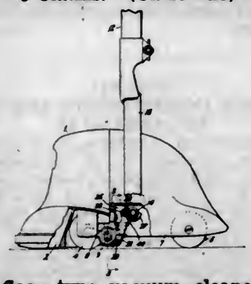
1. In automatic variable speed mechanisms, in combination, an engine, a speed control for said engine, multiple variable speed gearing driven by said engine and connected to a load, multiple friction devices arranged to establish different driving speed ratios within said gearing including direct driving coupling clutches, fluid pressure means effective to engage and hold said clutches engaged, valving controlling said means, and a device responsive to engine vacuum interposed between said valving and said engine speed control operative to regulate the rate of engagement of said clutches according to the advanced or retarded positioning of said speed control.

2,282,950

VACUUM CLEANER

Ralph E. Dunbar, East Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio, a corporation of New York

Application February 16, 1938, Serial No. 190,790
9 Claims. (Cl. 15—16)



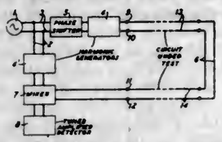
1. In a floor type vacuum cleaner, a casing having a suction nozzle, supporting wheels which sink into the nap of the floor covering being cleaned mounted on the casing for movement relative thereto to change the height of the suction nozzle, a handle for moving the cleaner over the surface being cleaned, a connection between the wheels and the cleaner comprising a brake drum, a brake member, a cam for moving the brake member against the brake drum and for thereafter moving the brake member so as to turn the brake drum, a part on the cleaner fixed relative to the suction nozzle, which part does not sink substantially into the nap of the floor covering, adjusting means mounted on the casing operated by said turning of the brake drum for effecting relative movement of the wheels and nozzle so as to raise said part a predetermined distance, and means for turning the cam to release the connection between the cleaner and the adjusting means and permitting said part to rest on the nap of the floor covering and for thereafter turning the cam to reestablish said connection and actuate said adjusting means so as to raise said part said predetermined distance.

2,282,951

MEASUREMENT OF PHASE SHIFT

George B. Engelhardt, Hartsdale, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application November 15, 1938, Serial No. 240,473
11 Claims. (Cl. 172—245)



1. In combination, means to produce a fundamental wave, a pair of impulse producing means to produce two independent predetermined ranges of harmonics from two different portions of the fundamental waves such that the phase angles of corresponding harmonics in both ranges are fixed relative to the phase angle of the fundamental wave, circuit means to connect the fundamental means to the pair of impulse means, a transducer disposed in the output of one impulse means to introduce an unknown amount of change in the phase angles of one range of harmonics, means to combine the outputs of the other impulse means and the transducer, means to detect the phase relation between certain combined harmonics having the same order in the output of the combining means, and phase shifting means embodied in the circuit means in the input of the one impulse means to introduce a known amount of change in the phase angle of the portion of the fundamental wave supplied thereto to compensate for the unknown amount of change introduced in the phase angles of the one range of harmonics, the known amount of phase angle change introduced in the one portion of the fundamental wave bearing a numerical ratio to the unknown amount of phase angle change introduced in the one range of harmonics, which ratio is the same as the ratio of the fundamental wave to the order of the detected certain harmonics.

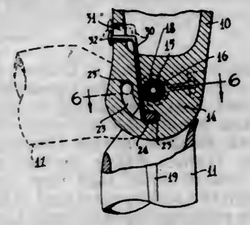
2,282,952

ARTIFICIAL LEG

Otto H. Erickson, Minneapolis, Minn.

Application August 3, 1940, Serial No. 350,960
1 Claim. (Cl. 3—2)

An artificial leg comprising lower and upper leg sections, metallic hinge straps secured to the upper side portions of said lower leg section, said upper leg section having a segmental hub flange located between the upper ends of said hinge straps, a knee hinge bolt extended through the hub flange of said upper section and at its ends anchored to the upper portions of said hinge straps, a stop bolt located directly below said knee joint hinge bolt and at its ends anchored to said hinge straps, said hub flange having circumferentially spaced stop elements engageable with said stop bolt to limit the swinging movements of said lower leg section in respect to said



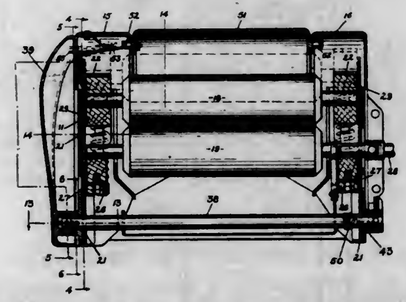
upper leg section, and shoulder straps extended in front of said knee hinge bolt and around and under said stop bolt, said shoulder straps, under upward tension, serving to cause said lower leg section to swing forward in respect to said upper leg section, in further combination with a lock bolt mounted in the upper leg section for movement through the hub flange thereof into a position to engage said stop bolt and lock the lower leg section against pivotal movement in respect to the lower leg section.

2,282,953

WRINGER MECHANISM

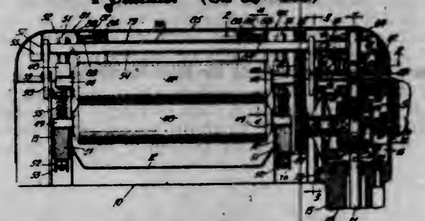
Nicholas L. Etten, Waterloo, Iowa

Application November 11, 1935, Serial No. 49,122
Renewed July 8, 1940
11 Claims. (Cl. 68—263)



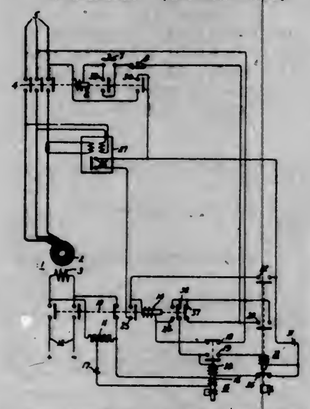
4. A wringer mechanism having in combination, a frame, rolls mounted in the frame, pressure mechanism for the rolls disposed in the ends of the frame, means for operating the pressure mechanism including cam members disposed in the bottom of the frame, connection between the cams and pressure mechanisms, a handle for manually operating said cams disposed at one end of the frame, said handle being operative to several positions to operate said pressure mechanisms by means of said cams into pressure or release positions, latching means holding said handle in pressure position, and a manually accessible member operative to disable said latching means whereby to release the roll pressure.

2,282,954
HINGED TOP WRINGER
Nicholas L. Eiten, Waterloo, Iowa
Application March 25, 1940, Serial No. 325,756
4 Claims. (Cl. 68—252)



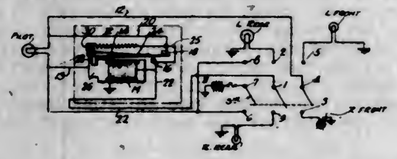
1. In a wringer including a frame, a spring, and a pair of pressure rolls, the combination of a top head, a reset shaft extending longitudinally of said head and provided with semi-cylindrical locking sections, hook members stationarily attached to the frame, hinge means interconnecting said frame and said top head and adapted to guide the locking sections of said reset shaft into close relationship with said hook members, means to rotate said reset shaft toward a locked position, a latch for said shaft, and a manually operable release for said latch.

2,282,955
CONTROL SYSTEM FOR SYNCHRONOUS MACHINES
Samuel C. Ewing, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application August 27, 1940, Serial No. 354,374
5 Claims. (Cl. 172—239)



1. In combination, a synchronous machine having an armature winding and a field winding, means for supplying alternating current to said armature winding, a source of excitation, a field switch for connecting said source to said field winding, a relay having a normal position and an operated position and a winding energized in response to the induced current in said field winding when said machine is operating subsynchronously, a second relay having a normal position and an operated position, means responsive to the movement of said first mentioned relay to its operated position for moving said second relay to its operated position, means controlled by said relays for closing said field switch when said first mentioned relay is in its normal position and said second relay is in its operated position, means for opening said field switch, a second winding for said first mentioned relay, and means for energizing said second winding when said field switch is open and said second relay is in its normal position.

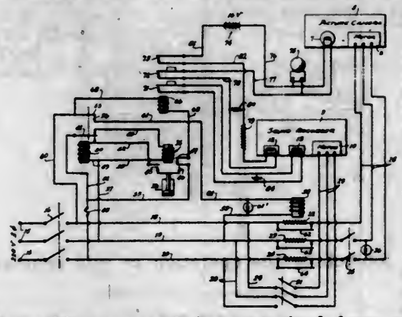
2,282,956
DIRECTION SIGNAL SYSTEM
Robert N. Falge and George W. Onksen, Jr., Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 16, 1937, Serial No. 159,219
7 Claims. (Cl. 177—311)



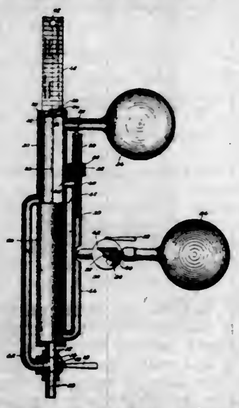
1. In a direction signal circuit the combination of a source of current, an interrupter including an armature in series with the source, a pair of contacts alternately engaged by the armature, means normally biasing the armature into engagement with one of said contacts, a shunt circuit including a pilot connecting the armature and said last-named contact, and means for actuating the armature including current-responsive means arranged in a circuit connecting the armature and the other of said contacts, two pairs of right and left direction signals, a circuit including a switch adapted to selectively connect either the right or left signal of one pair to one of said contacts or to disconnect both signals therefrom, a circuit including a switch adapted to connect either the right or left signal of the other pair to the other of said contacts or to disconnect both signals therefrom, and means for simultaneously actuating said switches to connect both of said right signals or both of said left signals in circuit with the interrupter and source or to disconnect them all therefrom, whereby said pilot is energized when either the right or the left signals are connected in circuit and the armature is in engagement with the contact with which it is normally out of engagement, and is deenergized when either the right or the left signals are connected in circuit but either or both fail to operate.

2,282,957
CONTROL CIRCUITS FOR MOTION PICTURE APPARATUS
James L. Fields, Hollywood, Calif., assignor to Radio Corporation of America, a corporation of Delaware
Application April 1, 1940, Serial No. 327,267
6 Claims. (Cl. 88—16.2)

1. In an electrical control system, the combination of a motor, a power supply for said motor, a film advanced by said motor, a second power supply, means for reducing the voltage impressed on said motor during the acceleration period thereof, a relay having a predetermined period of delayed action, said relay being energized from said motor power supply simultaneously with the energization of said motor, and means actuated a predetermined time after energization of said relay for impressing full-line voltage on said motor and marking said film, said full-line voltage-impressing means being energized from said motor power supply, and said marking means being energized from said second power supply.



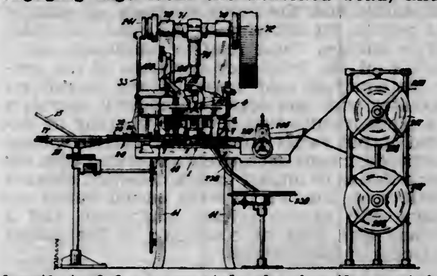
2,282,958
HYDROMETER
Lester D. Fitler, Jr., New York, N. Y., and Edward A. Feuss, Bloomfield, N. J., assignors to F. Morse Smith and James G. Henry, Jr., both of Montclair, N. J.
Application June 23, 1941, Serial No. 399,354
10 Claims. (Cl. 265—45)



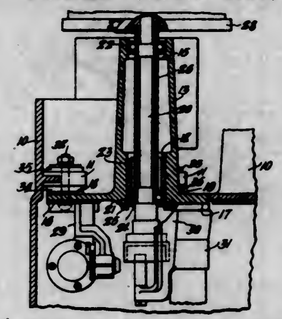
1. A hydrometer comprising: a barrel; an inlet communicating with said barrel; means for introducing fluid into the barrel; a scale fixedly related to said barrel; a float slidably guided inside the barrel and having an index element cooperable with said scale for indicating relative positions of the float inside the barrel; a two-way valve arranged in said inlet; and an overflow conduit placing said barrel in communication with one part of said valve.

2,282,959
MACHINE FOR MAKING CLOSURE CAPS
John C. Gibbs, Brooklyn, N. Y., assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y., a corporation of New York
Application October 12, 1937, Serial No. 168,536
26 Claims. (Cl. 113—1)

1. In a machine of the class described, the combination of means for successively delivering a blank having a cover part and a flange at the outer periphery thereof to a series of tools for forming a closure cap from the blank, a press associated with said means, a tool carried by said press for forming a hollow inturned bead in the flange of the blank, a second tool carried by said press for flattening the hollow bead, a third tool carried by said press for forming container engaging lugs from the flattened bead, and a fourth tool for accurately shaping the container engaging lugs to conform to a predetermined standard and for removing irregularities in the bead.

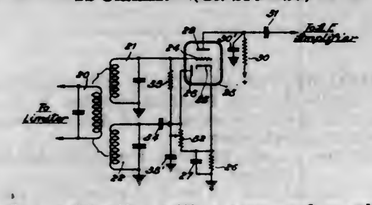


2,282,960
SOUND HEAD
John C. Griffith, Indianapolis, Ind., assignor to Radio Corporation of America, a corporation of Delaware
Application May 19, 1939, Serial No. 274,511
3 Claims. (Cl. 179—100.3)



1. In a soundhead, a reproducing unit including a cast bracket resiliently supported in the soundhead, a rotatable assembly including a film drum, a shaft and a rotary stabilizer mounted in said bracket, an exciter lamp and optical system mounted on said bracket on one side of the said film drum and a photocell mounted on said bracket on the other side of said film drum.

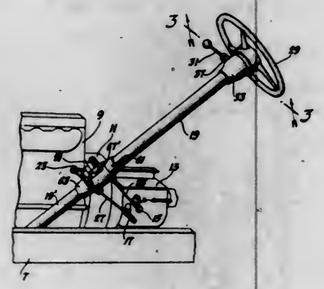
2,282,961
FREQUENCY MODULATION DETECTOR CIRCUITS
William A. Harris, Nutley, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 23, 1941, Serial No. 389,837
11 Claims. (Cl. 250—27)



1. In combination with a source of angular ve-

locity modulated carrier waves, a detection network comprising a pair of electron discharge devices, each device having an input electrode and an output electrode, means, connected between said source and the input electrode of each of said devices, for applying to the input electrodes carrier voltages whose relative magnitudes are a function of the frequency deviation of the center frequency of said waves, means operatively associated with one device to render it operative as a plate rectification detector whereby its detected output varies directly with carrier voltage magnitude, means operatively associated with the second device to impart to it a detection characteristic such that its detected output varies inversely with carrier voltage magnitude, and a common load element connected to the output electrodes of both devices.

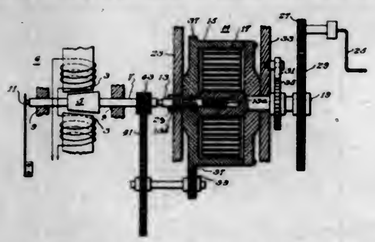
2,282,962
GEAR SHIFT REMOTE CONTROL
Harry Hawkins and William L. Reid, Saginaw, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 21, 1940, Serial No. 336,476
3 Claims. (Cl. 74—484)



1. Remote control means for the change speed transmission of a motor vehicle having a steering mast and a steering shaft within said mast, a manually operable lever adjacent the upper end of said mast, a tubular shaft within said mast and surrounding said steering shaft, means whereby said hand lever may selectively reciprocate and rotate said tubular shaft, means including secondary levers pivoted to said mast and operably connected for mutually exclusive actuation to said tubular shaft whereby selection and ratio changes respectively are effected by independent movements of said tubular shaft, said first mentioned means including trunnions whereby said tubular shaft is supported by said hand lever, together with link means between said tubular shaft and one of said secondary levers to position the lower end of said tubular shaft.

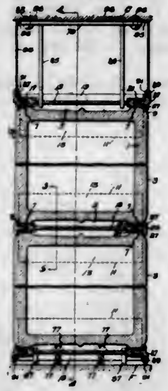
2,282,963
SPRING DRIVEN ELECTRIC GENERATOR
Robert Leslie Haynes, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 24, 1940, Serial No. 354,029
5 Claims. (Cl. 290—1)

1. In combination, an electric generator, spring means for driving said generator, and means responsive to the condition of tension of said spring



for controlling the operation of said generator.

2,282,964
WALL CONSTRUCTION
Russell L. Hohl, New York, N. Y.
Application May 11, 1939, Serial No. 272,976
11 Claims. (Cl. 72—42)

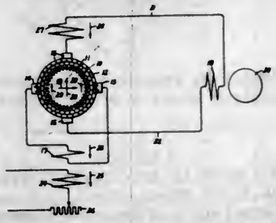


1. A wall having, in combination, blocks arranged in a plurality of superimposed rows and having opposite lateral faces forming the opposite sides of the wall; means extending through the wall at the sets of adjacent transverse edges of the blocks holding their transverse faces in spaced relation and presenting, adjacent each side of the wall, grooves opening outwardly of the wall at each side thereof and extending away from the transverse edge of each of the blocks of each of said sets in the directions of the two adjacent lateral edges of the block, and means received by and secured in said grooves and spanning the spaces between the blocks in overlapping engaging relation with the latter for holding the blocks in assembled relation.

2,282,965
PROCESS FOR PREPARING ZINC FORMALDEHYDE SULPHOXYLATE
Loren C. Hurd, Jenkintown, Pa., assignor to Röhm & Haas Company, Philadelphia, Pa.
No Drawing. Application March 17, 1941, Serial No. 383,802
6 Claims. (Cl. 260—429)

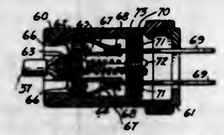
5. In a process wherein a solution of zinc formaldehyde sulphoxylate is concentrated, the improvement which comprises inhibiting oxidation and stabilizing the zinc formaldehyde sulphoxylate during concentration by adding thereto formic acid and glycerol.

2,282,966
DYNAMOELECTRIC MACHINE
Ray D. Jones, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application December 31, 1940, Serial No. 372,460
9 Claims. (Cl. 171—223)



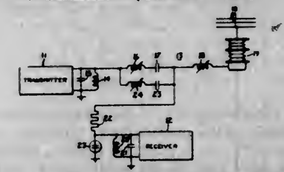
9. A dynamo-electric machine including a stationary member and a rotatable member having a plurality of coils and being provided with a commutator having segments connected to said coils, a set of primary brushes and a set of secondary brushes electrically displaced from said primary brushes adapted to provide a primary circuit and a secondary circuit respectively through said rotatable member, a field exciting winding arranged to provide a component of excitation responsive to electric current in said secondary circuit along substantially the same axis and in opposition to armature reaction excitation of electric current in said rotatable member secondary circuit, each of said primary brushes being constructed and arranged to extend over a plurality of commutator segments thereby short circuiting a coil of said rotatable member and producing a component of magnetic excitation along the secondary commutating axis of said rotatable member by current in said short circuited coil, and means including a second field exciting winding arranged to provide a component of magnetic excitation responsive to current in said rotatable member primary circuit and in substantially the opposite direction and equal to said excitation produced by current in said short circuited coil for substantially neutralizing said short circuited coil current component of excitation.

2,282,967
ELECTRICAL CONNECTION CIRCUIT BREAKER
Arthur Keefe, Akron, Ohio
Application February 11, 1938, Serial No. 190,088
10 Claims. (Cl. 200—115.5)



1. An electrical connector adapted for making interchangeable attachment with house wall sockets and attachment sockets and the like, comprising in combination, a plug shell for housing the contact of an electrical plug, a thermally responsive contact in said housing for engaging said plug contact, a substantially inclined end part of said housing contact for guiding said plug contact into engagement with said housing contact, means on said plug receptacle contact for retaining said plug contact, and spring means opposing the retention of said plug contact by said plug receptacle contact.

2,282,968
COUPLING APPARATUS
Edwin W. Kenefake, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 18, 1940, Serial No. 357,274
7 Claims. (Cl. 179—2.5)

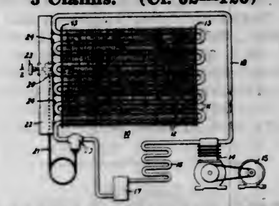


1. Carrier wave apparatus comprising a transmitter and a receiver operating at different frequencies, an electrical path serially including said transmitter, and means to connect said receiver in shunt to a portion of said path including said transmitter, the reactance of the portion of said path in shunt to said receiver being of opposite character to the reactance of the remainder of said path at the frequency at which said receiver operates, and said path having minimum reactance to a wave from the output of said transmitter at the frequency at which said transmitter operates.

2,282,969
BIOLOGICAL PRODUCT AND METHOD OF OBTAINING SAME
Charles G. King, Pittsburgh, Pa., assignor to The University of Pittsburgh, Pittsburgh, Pa.
No Drawing. Application November 4, 1938, Serial No. 238,911
4 Claims. (Cl. 167—66)

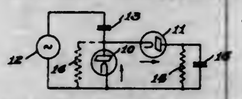
1. An oily fraction of alfalfa boiling at about 98° C. at 19 mm. pressure of mercury and capable when administered to an animal organism of causing production by said organism of anti-scorbutic activity.

2,282,970
VARIABLE CAPACITY REFRIGERANT EVAPORATOR
Ralph E. King, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application February 1, 1940, Serial No. 316,797
3 Claims. (Cl. 62—126)



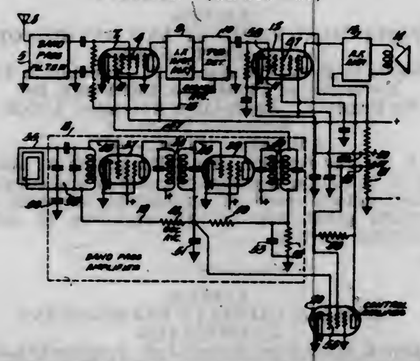
2. A refrigerant evaporator of the dry type comprising a sinuous conduit having a plurality of end turns and a valve for controlling the admission of refrigerant to said conduit, a temperature responsive element for actuating said valve, a heat conducting guide member secured in heat exchange relation with a plurality of said end turns of said conduit, means including a member slidable along said guide for selectively securing said temperature responsive element in heat exchange relation with any one of said plurality of end turns to establish the length of the portion of said conduit which shall contain liquid refrigerant.

2,282,971
SIGNAL DETECTING SYSTEM
Winfield R. Koch, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 30, 1939, Serial No. 306,940
5 Claims. (Cl. 250—20)



1. The combination of a transformer provided with primary and secondary circuits, an output impedance device, a pair of diodes provided with a cathode and an anode connected together and having a common input connection and with a cathode and anode interconnected through said device, and means for applying to said common connection a voltage which is the resultant of the voltages of said primary and secondary circuits.

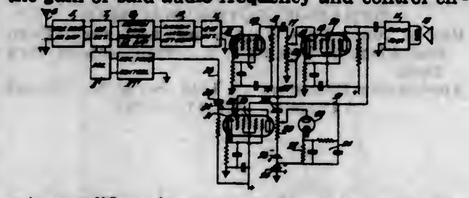
2,282,972
WIDE BAND RECEIVER
Winfield R. Koch, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 1, 1940, Serial No. 338,312
6 Claims. (Cl. 250—20)



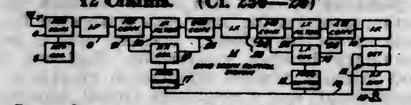
1. In a high frequency radio signal receiving system, the combination with a tunable local oscillator, of means for varying the frequency response of the signal receiving circuits of said system in response to variations in the tuning of said oscillator, means for varying the output amplitude of said oscillator, and means for varying the signal volume level in said system in response to variations in the oscillator output amplitude, whereby said oscillator provides combined tuning and volume control means for said system.

2,282,973
WIDE BAND FREQUENCY MODULATION RECEIVING SYSTEM
Winfield R. Koch, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 29, 1940, Serial No. 343,127
10 Claims. (Cl. 250—20)

1. In a radio signal receiving system, the combination with a signal amplifier having a predetermined fixed passband, of means for varying the effective band width of signals applied to said amplifier, a control circuit for said last-named means including an amplifier, an audio frequency amplifier, and means for simultaneously varying the gain of said audio frequency and control circuit amplifiers in response to variation in the signal amplitude above a predetermined value.

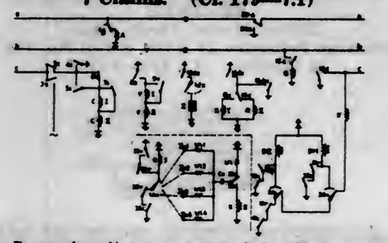


2,282,974
RADIO SIGNAL RECEIVING SYSTEM
Winfield R. Koch, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 29, 1940, Serial No. 343,139
12 Claims. (Cl. 250—20)



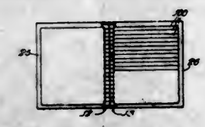
1. In a frequency modulated signal receiving system, means for varying the effective selectivity of said system with substantially constant gain, comprising two band pass filter networks each having a predetermined frequency response and attenuation characteristic providing relatively sharp attenuation on one side of the pass band of the network, means for passing a received signal through one of said filter networks with the side bands inverted, and means for shifting the mid-frequency of a received signal with respect to the attenuation side of the pass band in each filter network in accordance with variations in the output signal voltage of said system.

2,282,975
TELEPHONE SYSTEM
Hans Joachim Lurk, Berlin-Siemensstadt, and Felix Bloch, Berlin-Charlottenburg, Germany, assignors to Fides Gesellschaft für die Verwaltung und Verwertung von gewerblichen Schutzrechten m. b. H., Berlin, Germany
Application January 28, 1939, Serial No. 253,268
In Germany February 24, 1938
7 Claims. (Cl. 179—7.1)



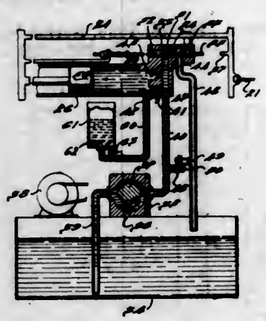
1. In a circuit arrangement for time zone metering for telephone systems wherein there is means for extending connections to different zones, a timing switch, a relay for controlling the speed of operation of said switch, means controlled in the establishment of connections for varying the release time of said relay in accordance with the zone to which the connection is extended, said relay thereafter operating said switch at different velocities, dependent on its established release time, to transmit metering impulses.

2,282,976
LOOSE-LEAF BINDER
Alfred M. Martin, Park Ridge, Ill.
Application May 31, 1940, Serial No. 338,063
5 Claims. (Cl. 129—17)



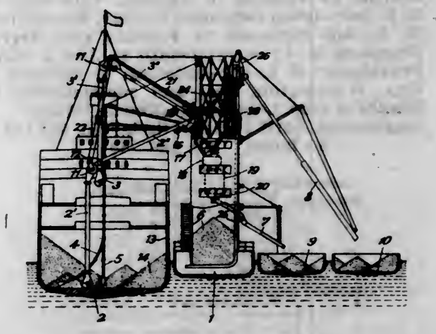
2. In a loose-leaf binder, the combination with a two-part prong-holding device, of a two-part binder back supporting the device, each part of the binder back having an upright portion hinged to the device and a longitudinally extending base portion at substantially right-angles to the upright portions, the base portions lapping each other and movable laterally into more or less lapping relation as the device is opened or closed, and interconnected means for guiding one part of the back and its supported device part both for limited movement toward and from the other parts and also for limited longitudinal movement.

2,282,977
HYDRAULIC OPERATING MECHANISM FOR PUMPS
Rodney R. Mast, Ypsilanti, Mich., assignor to Central Specialty Company, Ypsilanti, Mich., a corporation of Michigan
Application September 9, 1939, Serial No. 294,151
1 Claim. (Cl. 60—52)



Apparatus of the character described comprising a well casing, a sucker rod assembly reciprocable in the said casing, a cable connected therewith, a motor driven hydraulic apparatus including a constantly operating pump for providing liquid under pressure, a cylinder, a piston reciprocable therein, a frame attached to the piston and to the cable whereby reciprocation of the piston provides for reciprocation of the sucker rod assembly connected with the cable, a liquid supply source for the pump, a pump discharge conduit having an opening to the cylinder, a conduit for returning the liquid from the cylinder to the source of supply, a valve controlling the said opening operable by pressure in the discharge conduit to open the valve to permit flow of liquid into the cylinder from the pump, the said valve being closable by pressure of liquid developed in the cylinder by return movement of the piston, a valve controlled conduit for variably restricting discharge of liquid from the cylinder by the piston on the return stroke, valve means controlled through movement of the piston in the cylinder to close the discharge conduit to the return conduit whereby liquid under pressure is discharged through the said opening to the cylinder, the said valve means being operated by movement of the piston at the end of the pressure stroke to open the discharge conduit to the return conduit thereby relieving the piston of full pump pressure and permitting the same to be moved by the weight of the sucker rod assembly, an air chamber having a conduit in the bottom opening to the cylinder whereby on discharge of liquid to the cylinder, the air chamber is also supplied, a check valve associated with the air chamber for preventing direct return of the liquid to the chamber conduit, and a valve controlled by-pass from the said chamber to the said conduit discharging thereto for restricting the rapidity of flow from the air chamber.

2,282,978
CONVEYER SYSTEM FOR UNLOADING SHIPS
Fritz Meyer, Uzwil, Switzerland, assignor to the firm Bühler Brothers, Uzwil, Switzerland
Application January 25, 1940, Serial No. 315,614
In Germany February 6, 1939
7 Claims. (Cl. 214—13)

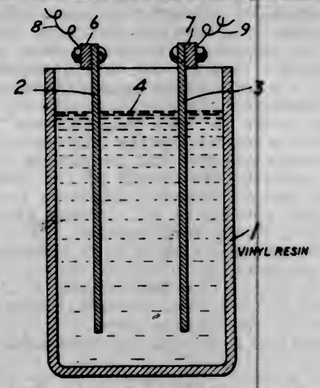


2. A conveyer system for unloading loose material from ships, comprising in combination, a conveyer for hauling loose material from the hold of a ship, a container communicating with the delivery end of said conveyer for collecting the material delivered by the conveyer, a transfer and discharge chute communicating with the container, and a bunker for temporarily communicating with the container to collect the material delivered by the conveyer upon said chute being out of operation.

2,282,979
COUNTERELECTROMOTIVE FORCE CELL
Harold P. Murphy, Ridley Park, Pa., assignor to The Electric Storage Battery Company, Philadelphia, Pa., a corporation of New Jersey
Application November 24, 1939, Serial No. 305,925
3 Claims. (Cl. 136—6)

1. For a counter E. M. F. cell comprising electrodes containing metallic nickel immersed in a solution of an alkaline hydroxide, a container of rigid vinyl resin which opposes gradual increase in counter E. M. F. of the cell in service and variation inter se of the counter E. M. F. of a

group of cells and increases the efficiency of the



cell in the performance of the regulating function for which the cell is employed.

2,282,980
VEHICLE WINDOW AND VENTILATING SYSTEM

Norman L. Guy, Providence, R. I., assignor, by direct and mesne assignments, of one-fourth to Roland G. Saacke, Providence, R. I., three-eighths to Thomas A. Jenckes, Cumberland, R. I., one-eighth to Maude W. Guy, Providence, R. I., one-sixteenth to Frances Guy Davis, Cranston, R. I., one-sixteenth to Ann L. Guy, Providence, R. I., one-sixteenth to Norman L. Guy, Wilmington, Del., and one-sixteenth to Elizabeth Guy Legedin, Roslindale, Mass.
Application April 14, 1933, Serial No. 666,130
8 Claims. (Cl. 280—44)

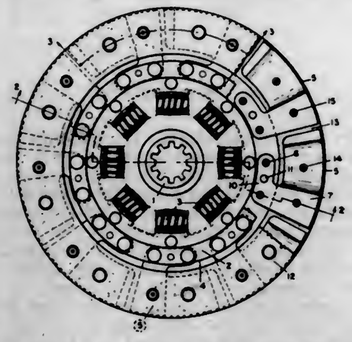


1. In a side window for a vehicle, a slidable window pane having a ventilating aperture therein, a window frame mounted in said ventilating aperture, a ventilating pane pivotally mounted on said window frame at aligned pivot points spaced from each vertical end thereof so that the rear end of said pane may pivot outwardly and the front end may pivot inwardly, and means to move said slidable window from a closed position permitting said pivoted pane to pivot thereon to an open position concealing said pivoted and slidable panes.

2,282,981
CLUTCH PLATE

George T. Jarrett, East Cleveland, Ohio, assignor, by mesne assignments, to Automotive Devices Company, Cleveland, Ohio, a partnership composed of Irwin Bramson, Philip Saks, Ira Saks and Morris Saks
Application February 10, 1940, Serial No. 318,304
4 Claims. (Cl. 192—107)

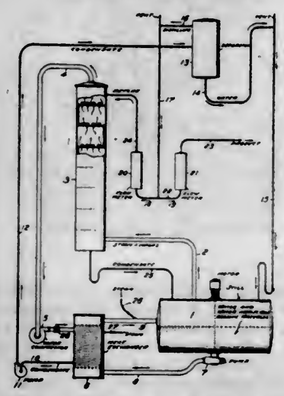
1. A clutch plate comprising a disk body, a plurality of flexible cushion members in the form of individually separate pieces having flat portions and arcuately extending wing portions, said cushion members being attached to opposite sides of the outer periphery of said disk body and extending beyond the outer circumference thereof, each of said flat portions being normally axially spaced from the opposed cushion member a distance equal to the thickness of said disk



body, said wing portions being laterally and oppositely off-set from the plane of said disk body, and friction facing rings attached to said cushion members, whereby on compression of said facing rings toward each other both said flat portions and said wing portions are subjected to flexing action.

2,282,982
PROCESS OF STEAM FRACTIONATION

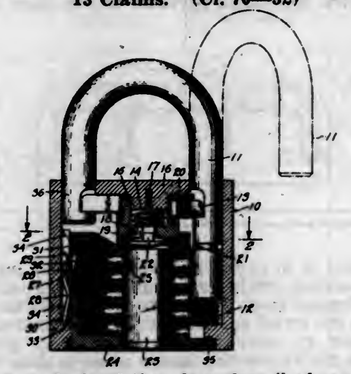
Joseph E. Jewett, Larchmont, N. Y., assignor to American Cyanamid and Chemical Corporation, New York, N. Y., a corporation of Delaware
Application May 26, 1939, Serial No. 275,804
1 Claim. (Cl. 202—72)



The process of fractionally distilling water-immiscible organic materials which comprises, generating steam and vapors of the components to be distilled from a mixture of water and a water-immiscible organic material contained in a still, fractionating said components in said steam, condensing the effluent vapors from the fractionation by indirect heat exchange with a vaporizable liquid thereby generating a vapor from the latter, compressing this vapor, and, condensing it and transferring latent heat of vaporization therefrom to the contents of the still by passing the compressed vapor in heat exchange with the latter.

2,282,983
PADLOCK CYLINDER RETAINER

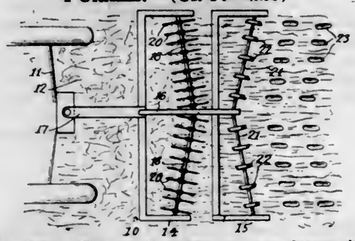
Joseph S. Lach, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application May 1, 1940, Serial No. 332,756
13 Claims. (Cl. 70—52)



1. In a lock of the class described, a padlock casing, a locking assembly inserted into said casing, and a retainer bar mounted in a recess internal of said casing and extending between said assembly and said casing and having one end thereof bearing against a retaining shoulder formed on said assembly and its other end bearing against a surface of said casing recess whereby an attempt to pull said assembly endwise out of the casing will tend to buckle said retainer bar.

2,282,984
DAM DIGGER

Frank Maresch, Nekoma, Kans.
Application June 13, 1939, Serial No. 278,960
4 Claims. (Cl. 97—220)

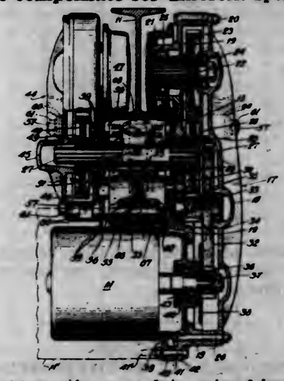


1. A dam digger for use on a farm implement comprising a substantially circular dished blank, a sharpened and dished digger edge on said blank and a flanged concave damming edge on said blank extending into said digger edge.

2,282,985
MOTOR DRIVEN TROLLEY

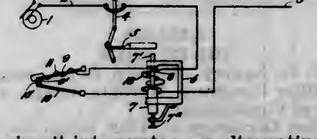
Charles Schroeder, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application January 24, 1940, Serial No. 315,342
17 Claims. (Cl. 105—154)

1. In a trolley of the class described, a motor, a trolley wheel cooperable with one side of an I-beam, gearing between said motor and trolley wheel and driven by said motor to rotate said trolley wheel, a second trolley wheel cooperable with the other side of said I-beam, gearing whereby said second trolley wheel is similarly driven by said motor, a shaft extending under said I-beam and through the medium of which said gearings are actuated simultaneously by said motor, means whereby the effective length of said shaft is adjustable to compensate for different spaced positions of said gearings as determined by different I-beam widths, and means for maintaining said gearings and trolley wheels in said different spaced positions.



2,282,986
ELECTRIC CONTROLLING APPARATUS

Joseph D. Wood, Bethlehem, Pa., assignor, by mesne assignments, to The Pennsylvania Company for Insurances on Lives and Granting Annuities, Philadelphia, Pa., a corporation of Pennsylvania
Application June 16, 1939, Serial No. 279,431
9 Claims. (Cl. 175—294)



1. A circuit interrupter, an alternating current circuit controlled thereby, an electromagnet having a movable element and a winding, means for connecting said winding in relation to said circuit for subjecting said winding to a current corresponding in value to the load current of said circuit, said magnet also having a winding subjected to the flux of said first named winding and having a current induced therein, a thermally responsive device affected by said induced current and having contacts normally engaged and closing the circuit of said second named winding and the opening of said contacts effecting the movement of said element, and means controlled by said element for opening said circuit interrupter.

2,282,987
AUTOMATIC SHUTOFF VALVE

Edwin O. Bennett, Ponca City, Okla., assignor to Continental Oil Company, Ponca City, Okla., a corporation of Delaware
Application October 17, 1940, Serial No. 361,570
1 Claim. (Cl. 166—2)

In an oil well having a casing, a body member formed with a bore and a flange, tubing secured to said bore and forming an eduction path therewith, a plurality of ports in said flange, an annular valve adapted to close said ports, means for positioning said valve below said ports at a pre-

determined distance therefrom, means for sealing the space between said flange and said casing, said valve being of such weight as to remain

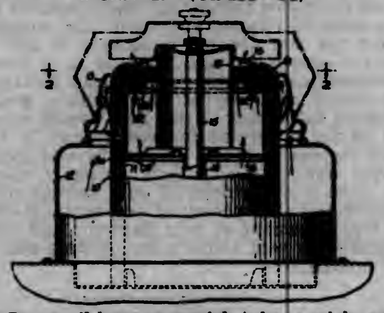


in unseated position until the velocity of fluid passing through said ports reaches a predetermined point.

2,282,968
PROCESS OF MOTHPROOFING
Joseph W. Creely, Oakiyn, N. J., assignor to Ravenson & Levering Co., a corporation of New Jersey
No Drawing. Application November 19, 1941, Serial No. 419,702
7 Claims. (Cl. 8—136.5)

1. The method of moth-proofing a fibrous substance which comprises applying to such a substance a compound hardenable by the action of an aldehyde added together with an organic base, and applying in a separate step a moth poisoning sulphonic acid compound, said hardenable substance being hardened in place on the fibrous substance to bond the organic base to the fibers, which base serves in turn to couple on the sulphonic acid compound.

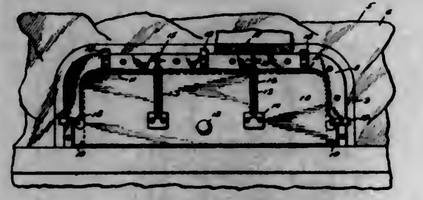
2,282,969
OIL BURNER
Ralph W. De Lancey, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a corporation of Connecticut
Application December 23, 1939, Serial No. 310,745
4 Claims. (Cl. 158—94)



2. In an oil burner, a wick tube, a wick, an air diffuser including a coil of wire disposed inside the wick tube adjacent the wick, and a channel shaped receiver for the coil of wire, the receiver being apertured to admit air below the coil.

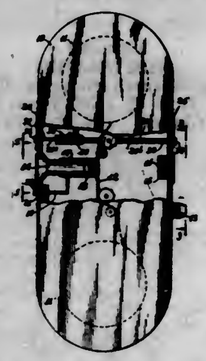
2,282,980
CLOSURE FOR BOX OFFICES
Charles De Paul, Sault Ste. Marie, Mich.
Application March 7, 1941, Serial No. 382,257
1 Claim. (Cl. 20—46)

In a device of the character described, a frame, a face plate secured on said frame and projecting beyond opposite edges thereof, turn buttons pivoted on said frame and coactive with the face plate in securing the frame in a hand opening of a box office, a door hinged on said frame for opening and closing the latter and having offset portions, said frame being recessed to receive the offset portions of the door when



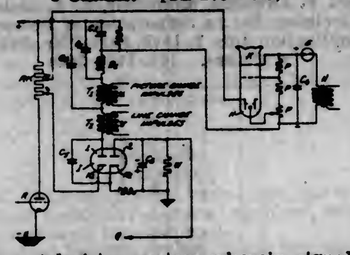
the latter is in closed position, said turn buttons being located on the frame adjacent the recesses and adapted to be turned to a position for engaging the offset portions of the door for holding the door in closed position and said buttons holding the frame in position when in door holding position and when in door releasing position.

2,282,991
COMBINATION MOTION PICTURE CAMERA, SCREEN, AND PROJECTOR
Paradise De Rose, New York, N. Y.
Application October 25, 1940, Serial No. 362,739
5 Claims. (Cl. 88—16)



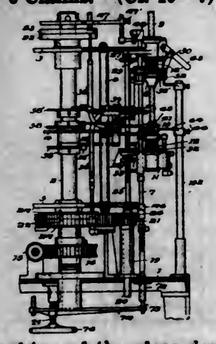
1. In a motion picture camera having a light proof body with a pair of opposed walls and means for supporting and moving a sensitive film vertically of said body, a lens mounted on one of said walls for recording a series of images on said film, a window opening formed in said wall having said lens at a position above said lens, an inwardly extended tubular eye piece mounted on the other wall of said pair of opposed walls and in coaxial alignment with said window opening, a tubular member slidably engaged on the inner end of said eye piece, an enlargement lens mounted on the inner end of said tubular member, a shutter for said eye piece, a shutter for said window opening, and means for moving said tubular member relative to said eye piece for bringing said lens into focus, said means comprising an L-shaped arm having one of its ends attached to said tubular member and the other of its ends projected to the exterior of said light proof body.

2,282,992
TELEVISION RECEIVER
Peter Dilcrma, Berlin, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application May 11, 1940, Serial No. 334,531
In Germany May 13, 1939
5 Claims. (Cl. 178—7.3)



1. In a television system wherein signals are transmitted by a stabilized carrier system in which a direct current component of the picture signals is transmitted, the peaks of the synchronizing signals being represented by zero or approximately zero carrier amplitude, the black level in the transmitted picture represented by a predetermined percentage of the carrier amplitude, a circuit arrangement comprising a rectifier tube operatively connected to a source of amplified signals, a load comprising a resistance connecting the anode of said tube with a source of positive potential, a Braun tube, a tap on said resistance connected to the Wehnelt electrode of said tube to cause variation in the acceleration of electrons in said tube in accordance with signals across said resistance, a double diode tube, a circuit connected between a point on said resistance more negative than said tap and a cathode of said diode tube, a chain of tuned inductances comprising two transformers and a condenser shunted by a resistance connected between the anode associated with said cathode of the double diode and the positive terminal of said load resistance and a circuit connecting the cathode of said Braun tube to the more negative side of said condenser, the arrangement being such that the operating characteristics of the Braun tube are varied in accordance with the amplitude of the signals across said load resistance.

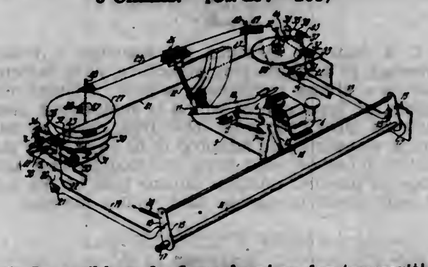
2,282,993
MANUFACTURE OF AMPOULES
Jakob Dichter, Berlin-Schoneberg, Germany
Application March 7, 1939, Serial No. 260,398
In Germany March 23, 1938
6 Claims. (Cl. 49—7)



1. In a machine of the class described, a pair of gripping devices for engaging a length of tubing, means for heating a portion of the length of tubing between the gripping devices while the length of tubing is held by said gripping devices, means for effecting relative movement of said devices away from each other axially of the tubing to reduce the cross sectional area of the heated portion of the tubing, means for moving certain of said heating means transversely with respect to the tubing, and means for moving others of said heating means in predetermined timed relation to the said movement of the gripping devices in a direction parallel to the axis of the tubing while said gripping devices are moving relative to each other to progressively heat successive increments of the tubing.

4. In a machine of the class described, a pair of vertically aligned gripping devices for engaging a length of tubing, means for heating a portion of the length of tubing between the gripping devices while the tubing is held by said devices, means for opening and closing said gripping devices, the upper of said gripping devices being constructed to permit tubing to pass therethrough by gravity when said upper gripping device is open, a gauge plate disposed in axial alignment with said gripping devices at one position of the gripping devices and adapted to limit the length of tubing passing through the upper gripping device, and means for simultaneously reciprocating said gauge plate and heating means vertically with respect to said gripping devices.

2,282,994
TYPEWRITING MACHINE
William A. Dobson, Wethersfield, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application September 16, 1939, Serial No. 295,296
8 Claims. (Cl. 197—165)

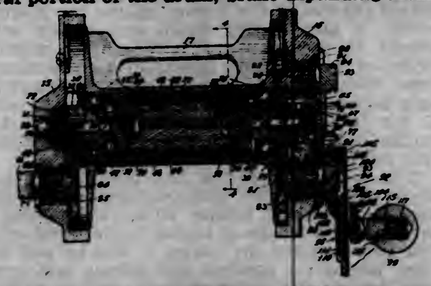


8. In a ribbon-feed mechanism for typewriting machines, having a pair of ribbon spool ratchet wheels; reversible actuating means for the ratchet wheels, comprising a shiftable control member for each ratchet wheel, means operatively connecting said control members, a driving pawl cooperative with each ratchet wheel, mounted for reciprocatory movement on a fixed member of the machine, each of said control members upon shifting being engageable directly with its pawl to bring said pawl free of the ratchet wheel, means on each control member to resist reverse rotation of its ratchet wheel, and resilient means on each control member to press its driving pawl into engagement with its ratchet wheel.

2,282,995
FISHING REEL
George H. Dumond, Jersey City, N. J.
Application May 11, 1940, Serial No. 334,491
7 Claims. (Cl. 242—84.5)

3. A fishing reel for large salt-water game fish,

comprising a shaft, a handle for rotating the shaft, a drum mounted coaxially with the shaft for free rotation in either direction, a plurality of symmetrically arranged brake shoes non-rotatably, but radially and axially movably mounted on the shaft between the latter and the central portion of the drum, brake expanding means



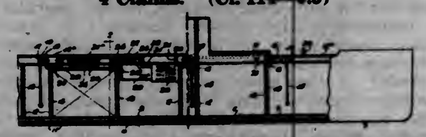
adjacent each end of the brake shoes and means operable independently of said handle for moving one of said means in the direction of the axis of the shaft relatively to the other to force the brake shoes outwardly against the interior of the central portion of the drum for connecting the shaft and drum when desired.

2,282,996
FASTENER MEMBER
Didrick Dyreson, Billerica, Mass.
Application September 14, 1940, Serial No. 356,792
7 Claims. (Cl. 189—88)



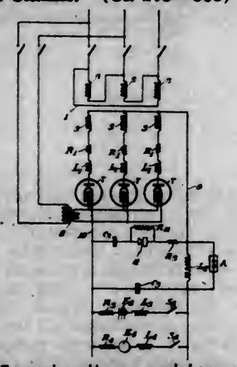
1. A fastener member for securing a hollow member to a supporting structure, said fastener having a shank comprising a pair of shank elements, at least one of which is shouldered, head sections provided from the free ends of said shank elements and adapted to be carried by said hollow member, said head sections having portions in parallel relation on one side of the axis of said shank to engage said hollow member.

2,282,997
FIRE EXTINGUISHING SYSTEM FOR SHIPS
Jerone Edmundson, Birmingham, Ala.
Application November 16, 1938, Serial No. 240,809
4 Claims. (Cl. 114—6.5)



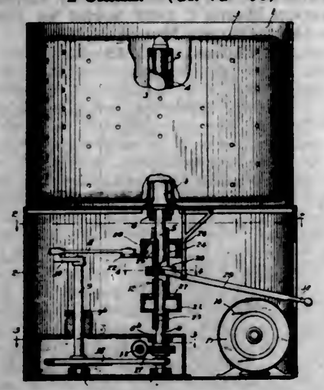
1. In a marine vessel having cargo compartments and a hull provided with an outer wall throughout a substantial portion of its bottom area and an inner false bottom wall spaced from said outer wall and coextensive therewith, partitions interconnecting said walls and providing a series of hollow gas-tight compartments, an anhydrous fire-smothering gas under pressure within said latter compartments, said gas being lighter than air at corresponding pressures, conduits interconnecting said gas compartments and said cargo compartments and said conduits being provided with control valves whereby said gas may be released under its pressure and selectively directed into any one or more of said cargo compartments.

2,282,998
RECTIFIER CIRCUIT
Donald V. Edwards, Montclair, N. J., assignor to Electrons, Inc., a corporation of Delaware
Application July 1, 1940, Serial No. 343,441
4 Claims. (Cl. 175—363)



1. A rectifier circuit comprising a source of alternating current connected through two or more rectifying elements to a direct current circuit having series inductance followed by parallel capacitance and switch-connected current-consuming load, the inductively stored energy thereof being large compared to the capacitively stored energy under normal operating conditions, additional capacitance connected across the direct current circuit on the side of the inductor opposite to the side having the capacitor and a resistor in series with the last named capacitance for attenuating energy oscillations between said source of alternating current and the additional capacitance and also for attenuating energy oscillations between said series inductance and said additional capacitance, said additional capacitance being larger in value than the parallel capacitance of said direct current circuit.

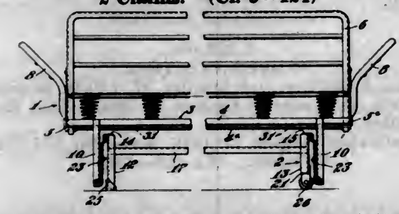
2,282,999
WASHING MACHINE
Bernard L. Engelke, Los Angeles, Calif.
Application June 8, 1940, Serial No. 339,513
1 Claim. (Cl. 74—75)



In drive mechanism for a washing machine-

basket, a main shaft for oscillating or rotating the basket, drive shafts, a double clutch comprising elements adapted to respectively form driving connections for the main shaft respon- with one of the drive shafts, and means for oscillating the other clutch element by rotation of means for rotating one of the clutch elements sive to selective engagement of the double clutch, the other drive shaft; said last mentioned means comprising a crank on said other drive shaft, a radial arm fixed to said other clutch element, and a pitman pivoted at its respective ends to said crank and said radial arm.

2,283,000
GLIDER
Jacob C. Feldman, Boston, Mass., assignor to New England Bedding Company, Medford, Mass., a corporation of Massachusetts
Application October 4, 1940, Serial No. 359,628
2 Claims. (Cl. 5—124)



1. A glider comprising an elongate stationary section having at each end upstanding supporting members and transversely extending members constituting legs for supporting the section, an elongate seat section having adjacent to each end depending members disposed in closely spaced relation to said upstanding supporting members, link members pivotally connecting said supporting members and said depending members so as to support the seat section for swinging movement, the construction and arrangement of parts being such that the ends of the stationary section are not conveniently accessible so as to permit the glider to be lifted for movement from place to place, the legs at one end of said stationary section having rollers with fixed axes extending transversely of the section and the legs at the opposite end having resilient feet adapted to exert a frictional gripping action on a floor when the glider is occupied and thus cooperating with said rollers to prevent accidental movement of the glider both longitudinally and transversely, and releasable latch means comprising interlocking elements carried by the two sections for locking the seat section against swinging movement when the glider is being moved from place to place.

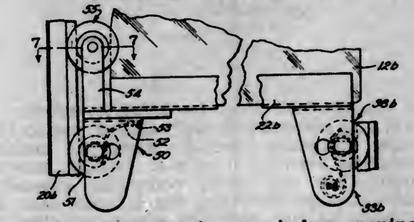
2,283,001
PACKAGE
Harry J. Fey, St. Louis, Mo., assignor to James R. Kearney Corporation, St. Louis, Mo., a corporation of Missouri
Application January 27, 1940, Serial No. 315,906
2 Claims. (Cl. 206—56)

1. A package for fuse links and the like comprising a housing having an aperture normally of fixed dimensions formed through a wall portion thereof through which a part of a packaged fuse link extends to the exterior of the housing, said aperture being of such dimensions that the fuse link may not pass therethrough and said aperture having portions of its boundary wall displaceable, said displaceable wall portions serving to normally retain the fuse link in place within the housing and being displaced by the packaged fuse link when the exteriorly extended part thereof is pulled to provide an exit of sufficient size through which the fuse link may be withdrawn from the housing, said aperture be-



ing formed in one wall of the housing and said displaceable portions being parts of an adjacent wall of the housing and being formed by a T-shaped slit and lines of perforations which extend from opposite ends of the horizontal part of said T-shaped slit to the approximate locations of the opposite ends of said aperture.

2,283,002
CHANNEL ASSEMBLY
Burton S. Floraday, Toledo, Ohio, assignor to Marvel Equipment Corporation, Detroit, Mich., a corporation of Michigan
Application July 27, 1939, Serial No. 286,872
10 Claims. (Cl. 296—44.5)

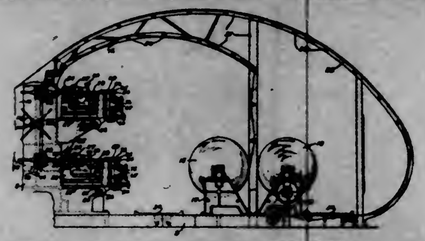


1. In a vehicle having a window opening, a window movable to cover and uncover the opening, there being a well into which said window is movable, means for guiding the movement of said window, said guiding means comprising an elongate rigid guide extending into said well and providing a track, a bracket connected to the end of the window which extends into said well, a roller engaging said track, means for mounting said roller on said bracket to afford lost motion thereof in a direction toward and away from the track, said mounting means including an elongate slot in said bracket and a shaft for said roller having a pair of parallel slots receiving opposite edge portions of said slot, and spring means urging said roller outwardly toward said track.

2,283,003
PRINTING APPARATUS
George O. Frostad and Raymond J. Nebel, Milwaukee, Wis., assignors to C. B. Henschel Mfg. Co.
Application May 13, 1940, Serial No. 334,764
28 Claims. (Cl. 101—182)

1. Printing apparatus comprising, an impres-

sion cylinder rotatable about an axis, lower and upper carriages movable parallel to each other toward and away from the periphery of said cylinder, a plate cylinder journalled upon said lower carriage and normally coacting with said impression cylinder, an ink roll carried by said



upper carriage and normally coacting with said plate cylinder, and means for simultaneously moving said carriages relative to said impression cylinder and relative to each other to separate said cylinders from each other and said plate cylinder from said roll.

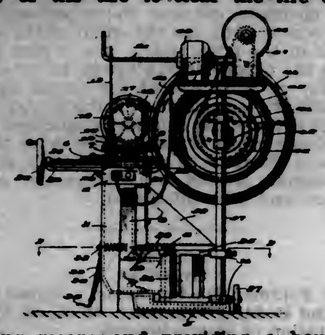
2,283,004
ELECTRON MULTIPLIER
Rudolf Gebauer and Heinrich Freiherr Rausch von Traubenberg, Berlin, Germany, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application August 30, 1939, Serial No. 292,632
In Germany August 30, 1938
1 Claim. (Cl. 250—134)



An electron multiplier including a cathode, a control grid surrounding said cathode, means for emitting secondary electrons under the impact of electrons arriving from said cathode, means including two electrically connected generally cylindrical parts encircling the cathode, each of said parts having openings which coincide in radial direction with the wall portions of the other part, and means for producing a magnetic field in said multiplier said field for directing the cathode electrons through the said openings against the means for secondary emission.

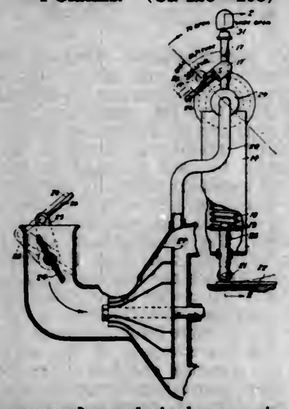
2,283,005
TIRE TREAD REMOVING MACHINE
Elmore Mynick Godfrey, Jr., Knoxville, Tenn.
Application January 30, 1939, Serial No. 253,716
12 Claims. (Cl. 29—28)

1. In a tire tread removing machine, the combination of a support, means mounted on said support for removing a portion of a tire tread, a standard, means connected with the lower end of said standard for mounting said standard for bodily swinging movement about an upwardly extending axis relative to the support, means connected with the upper end portion of said standard above the standard mounting means for mounting a tire on said standard for turning movement about an approximately horizontal axis, and an arm rigidly connected with the standard beside the tire and extending laterally therefrom a substantial distance outside the periphery of the tire to clear the tire on said



mounting means and providing a handle for turning the same relative to the tread removing means.

2,283,006
POWER CONTROL
Milton J. Kittler and Stanley M. Udale, Detroit, Mich., assignors to George M. Holley and Earl Holley
Application August 17, 1938, Serial No. 225,392
4 Claims. (Cl. 123—103)

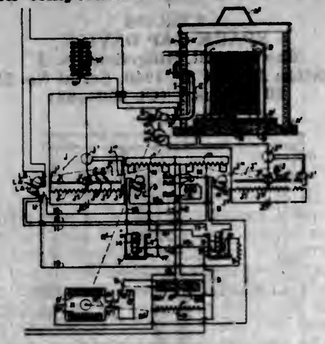


4. In a supercharged airplane engine a vacuum pump, a manually operated throttle control lever having a variable length, piston and cylinder means incorporated in said throttle control lever, a passage connecting one end of the cylinder with the vacuum pump, a passage connecting the other end of the cylinder with the supercharged pressure, spring means for balancing the piston, said spring means being adapted to balance the piston when the throttle is partly closed at a higher supercharged pressure when at sea level than at altitude when the throttle is wide open and the strain on the spring is partially released.

2,283,007
FURNACE CONTROL
Anker E. Krogh, Philadelphia, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 7, 1937, Serial No. 167,717
15 Claims. (Cl. 236—15)
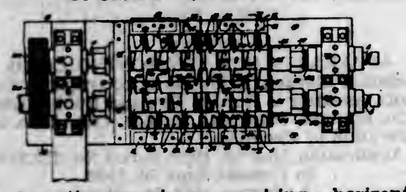
1. In controlling the supply of heat to a heater by and in accordance with measurements of the temperature of the heater and of work heated

therein, the method which consists in regulating the heat supply to the heater in sole response to the heater temperature while the work temperature is below a predetermined value, and in regulating the heat supply in sole response to the work temperature after the latter has at-



tained said value and so long as the heater temperature does not exceed a second predetermined value, and in regulating the heat supply in joint response to the temperatures of the work and heater after the heater temperature attains said second value.

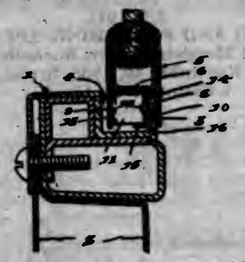
2,283,008
CHEMICAL PROCESSING APPARATUS
William D. Le Bar and Russell E. Cushing, Wyandotte, Mich., assignors to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application August 1, 1940, Serial No. 349,366
16 Claims. (Cl. 259—104)



1. A continuous mixer comprising a horizontal trough for receiving mixable materials at one end thereof and for discharging the mixture from the opposite end thereof, a series of elongated channels spaced longitudinally of the trough along one wall thereof and respectively disposed in planes extending transversely of the trough, means for moving said materials transversely of the trough, into and through said channels respectively, and a longitudinally inclined surface at one side of the material receiving end of each channel for diverting a portion of the transversely moving material from each channel longitudinally of the trough into the next adjacent channel lying nearer the discharge end of the trough and advancing the materials step by step through said trough and out said discharge end thereof.

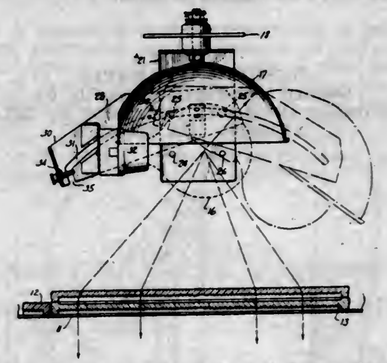
2,283,009
SLIDING WINDOW CONSTRUCTION
John F. Levan, Elkhart, Ind., assignor to Excel Curtain Company, Inc., Elkhart, Ind., a corporation of Indiana
Application September 10, 1940, Serial No. 356,197
1 Claim. (Cl. 189—64)

In a sliding window construction, a window frame provided with an inwardly extending sash guide flange, and a sliding sash mounted in the frame and formed with a channel at its edge arranged astride said flange with one side wall of the channel lapping the outer side of the flange and a space between the inner side of the flange and the other side wall of the channel, and a spring-pressed, non-absorbent weather strip



located in the channel and movable with the sash, said strip being coextensive in length with said channel and thrusting against the inner side of said flange, whereby the engaging of one side wall of the channel and of the weather strip with the outer and inner faces respectively of said flange constitutes the only guiding of the sash with the frame.

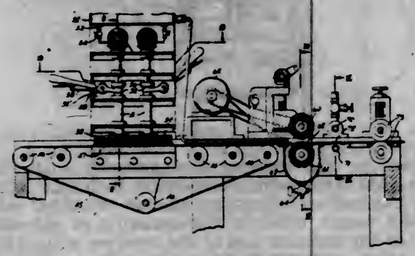
2,283,010
STORE LIGHTING APPARATUS
Henry L. Logan, New Rochelle, N. Y., and Vearl Wince, Newark, Ohio, assignors to Holophane Company, Inc., New York, N. Y., a corporation of Delaware
Application August 2, 1940, Serial No. 349,585
7 Claims. (Cl. 240—78)



1. Lighting apparatus adapted to produce a light beam orientable about a vertical axis and of varying angle of obliquity of the axis of the projected beam, comprising a yoke pivoted to swing about said vertical axis and having downwardly extending arms, a second yoke having generally horizontal arms received within the first arms, guiding and coupling means between the vertical and horizontal arms whereby when the second yoke is moved in a generally horizontal direction it is caused to traverse a downwardly concave path, a downwardly acting spherical reflector secured between the arms of the second yoke with its center positioned to move through a path radial with respect to its vertical axis, a lamp socket and lamp carried by the second yoke with its filament at the center of the reflector, and a lens whose axis is under the vertical axis of the first yoke adapted to receive the

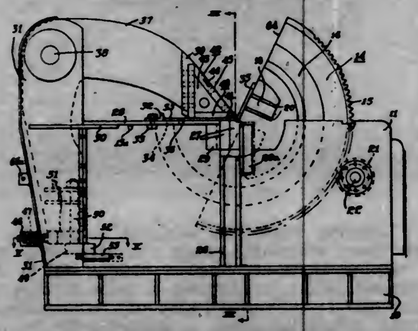
divergent direct and reflected light and transmit it in a beam at reduced angles of divergence with obliquity and orientation as determined by the offsetting of the light center with respect to the said vertical axis and its orientation about said axis.

2,283,011
WASHING AND SCRUBBING APPARATUS
Charles Mendelson, New Rochelle, N. Y.
Application November 19, 1938, Serial No. 241,316
1 Claim. (Cl. 15—85)



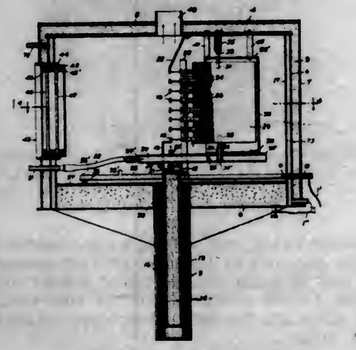
In washing and scrubbing apparatus of the nature set forth: a unit comprising a moving carrier for the goods to be cleansed, a brushing device to which the goods are presented by the carrier and comprising a pair of coacting rotary brushes through which the goods are passed and engaging the opposite surfaces thereof for cleansing and advancing the goods, means to receive and convey the goods therefrom, a foraminous element interposed between the said brushes, a tank for cleansing liquid located beneath the under brush and into which it dips, and reversible means for rotating the brushes.

2,283,012
BENDING APPARATUS
Edward Nightingale, Haysville, Pa.
Application October 31, 1940, Serial No. 363,645
3 Claims. (Cl. 153—16)



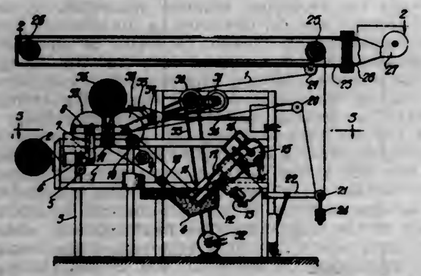
1. Bending apparatus comprising a table for receiving plates and the like for bending, a pair of segmental members mounted for oscillatory movement about an axis adjacent to the forward edge of the table and normally positioned in a plane below the table, a bending bar supported at its ends by said members, adjacent to but spaced from the axis of oscillatory movement, a hold-down member positioned above the table and offset from the said axis, and means for rocking the oscillatory members in a direction to bend a plate against the hold-down member, the said means comprising spur gear teeth on the peripheral edges of the oscillatory members and spur toothed driving pinions therefor, positioned below the plane of the table on a radial line which extends at approximately 30° to the plane of the table.

2,283,013
SPARK GAP DEVICE
Fay E. Null, Ridgefield, N. J.
Application August 31, 1940, Serial No. 355,101
20 Claims. (Cl. 250—33)



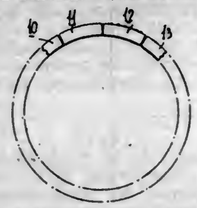
1. A spark gap device for producing a long high voltage spark with the spark in a substantially straight line, consisting of a row of spaced electrodes arranged in a line, a condenser, means connecting the terminals of said condenser to the two end electrodes respectively of said row of electrodes, a source of high voltage supply, and means connecting said high voltage supply to said condenser.

2,283,014
APPARATUS FOR TENSIONING CORD
Frederick Gordon Reid, Toronto, Ontario, Canada, assignor to Dunlop Tire and Rubber Goods Co. Limited, Montreal, Quebec, Canada, a corporation of Canada
Application May 16, 1939, Serial No. 273,838
In Canada June 30, 1938
9 Claims. (Cl. 91—55)



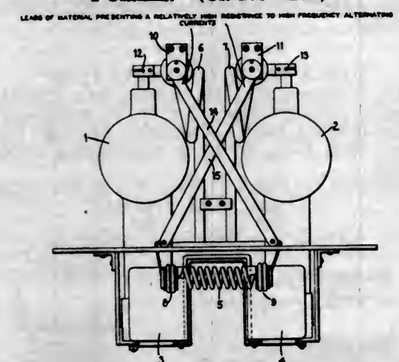
9. Apparatus for uniformly treating and tensioning a cord which comprises a liquid treating bath, a pair of rotary feeding devices, the first of said rotary feeding devices being in said bath and the second of said rotary feeding means being spaced beyond said bath to permit the drying of said cord, movable means for imposing a predetermined tension on said cord between said first and said second rotary feeding device, and means for varying the speed of one of said rotary feeding devices in accordance with the stretchability of said cord under said tensioning means.

2,283,015
BRACELET OR THE LIKE
Alfred F. Reilly, North Attleboro, Mass.
Application January 8, 1942, Serial No. 426,093
4 Claims. (Cl. 63—5)



4. In a bracelet or the like a plurality of units each being in substantial contact with two adjoining units, a U-shaped member in each unit, guideways in each unit through which the arms of the U-shaped member slide, overturned edges on the base of the U-shaped member, a curved leaf spring having its ends between the overturned edges and lying between the base of the U-shaped member and the portion of the enclosing unit between the guideways, and means on the ends of the arms of the U-shaped member for engaging the adjacent unit.

2,283,016
HIGH FREQUENCY STAGE
Max Schrumpf, Berlin, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application November 29, 1938, Serial No. 242,911
In Germany November 10, 1938
4 Claims. (Cl. 179—171)



1. A high frequency amplifier comprising an amplifying circuit, a neutralizing condenser, and means for coupling said condenser in said circuit, comprising a resistance, said resistance consisting substantially of a substantially straight lead of material presenting a relatively high resistance to high frequency alternating currents.

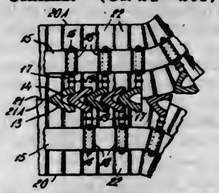
2,283,017
APPARATUS FOR FORMING ORNAMENTAL TRIMMINGS
Bessie L. Scott, Altus, Okla., assignor of one-half to Leona V. Curtis, Amarillo, Tex.
Application June 20, 1940, Serial No. 341,553
3 Claims. (Cl. 112—9)

1. An apparatus for forming ornamental fringes or the like, including an elongated, relatively thin loop forming strip of resilient material, a second strip secured at its ends to spaced portions of said first strip and disposed adjacent one end thereof, means for spacing said strips intermediate of the ends of said last mentioned strip, said last mentioned strip having an enlarged portion forming an outwardly projecting edge disposed at an oblique angle to the edges of said first mentioned strip, and a blade provided with a cutting edge, said blade having a



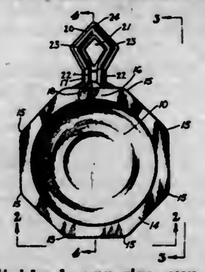
notch at one end for detachably engaging said spacing means, and said blade being provided with a notch in its back edge and adjacent its opposite end for engaging the oblique edge of said last mentioned strip for positioning the cutting edge beyond said oblique edge and substantially parallel thereto.

2,283,018
SEPARABLE FASTENER
Ervin Seltzer, Philadelphia, Pa., assignor to Swan Fastener Corporation, New York, N. Y., a corporation of New York
Application May 15, 1940, Serial No. 335,223
8 Claims. (Cl. 24—205)



4. A separable fastener comprising a pair of cords, alternately spaced elements on said cords, each element comprising a piece of wire having one of its ends bent around one of the cords, and its other end enlarged and formed into a cone-shaped protuberance with its axis substantially parallel with said cord, the base of said cone being constructed to form a pocket for receiving the protuberance of an adjacent fastener.

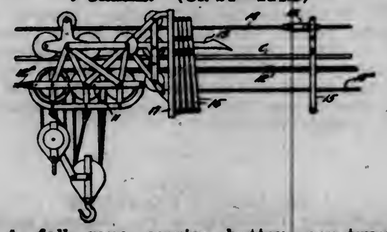
2,283,019
EGG COOKER
William F. Serr, New York, N. Y., assignor to Eric Pusinelli, New York, N. Y.
Application May 29, 1940, Serial No. 337,750
2 Claims. (Cl. 53—1)



1. An individual, egg-size cup for a steaming egg cooker, said cup being formed from relatively thin sheet metal and comprising an imperforate bowl and a sheet metal handle integral with and extending laterally from said bowl, said handle being formed intermediate its ends with an in-

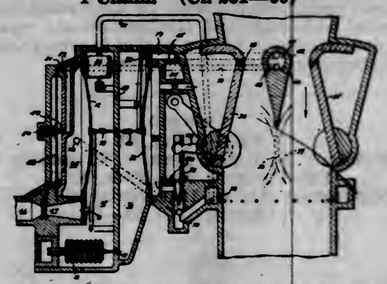
verted U-shaped clip portion adapted to suspend the cup in a receptacle by engagement with the rim of the receptacle, and having a perforation formed in the distal portion of said handle and corrugations extending longitudinally of said handle and past said perforation.

2,283,020
FALL ROPE CARRIER STOP BUTTON
Charles C. Sunderland, New Brunswick, N. J., assignor to John A. Roebling's Sons Company, Trenton, N. J., a corporation of New Jersey
Application June 5, 1940, Serial No. 338,924
7 Claims. (Cl. 24—114.5)



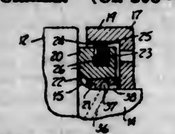
4. A fall rope carrier button construction comprising externally cylindrical cooperating clamping members for gripping a button stop rope, said members having interior rope gripping projections corresponding to the lay of the rope, means for securing said clamping members together in rope gripping relation, and a two part fall rope carrier stop button having opposed end pressure exerting seats and receiving within it between said seats said clamping members, thereby gripping said clamping members under pressure exerted axially of the button.

2,283,021
PRESSURE CARBURETOR
Stanley M. Udale, Detroit, Mich., assignor to George M. Holley and Earl Holley
Application June 24, 1940, Serial No. 342,095
1 Claim. (Cl. 261—69)



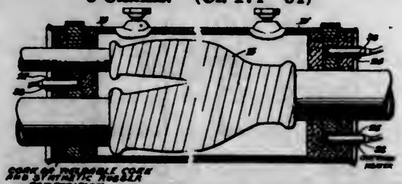
A carburetor having an air entrance, a throttling means therein forming variable Venturi mixing chamber, a fuel entrance chamber, a fuel exit chamber, a restricted passage therebetween, means for maintaining a definite pressure difference in said fuel chambers at every air flow and at each position of the throttling means comprising a passage connecting the throat of aid variable Venturi with an air chamber controlling the pressure in said fuel exit chamber, a passage connecting the mixture outlet with an air chamber adapted to control the pressure in the fuel entrance chamber, valve means controlled by the throttle for reducing the effect of the difference between the air pressure on the engine side of the variable Venturi and the pressure in the throat of the variable Venturi when the variable Venturi throttle is in a partly closed position, said fuel chambers each having a flexible wall, said flexible walls forming one wall of each air chamber, a fuel entrance valve in said fuel entrance chamber adapted to be opened by an increase in air pressure acting on the flexible wall of said fuel entrance chamber, a fuel exit valve in said fuel exit chamber adapted to be opened by a decrease in air pressure acting on the flexible wall of said fuel exit chamber.

2,283,022
LUBRICANT SEAL FOR BEARINGS
August Gunnar Ferdinand Wallgren, Eskilstuna, Sweden, assignor to Aktiebolaget Bolinder-Munktell, Eskilstuna, Sweden, a corporation of Sweden
Application February 7, 1939, Serial No. 255,036
In Sweden February 11, 1938
14 Claims. (Cl. 308—36.3)



1. A bearing sealing device for use with a machine embodying a crankshaft having a crank web and a crank pin connected thereto, and a connecting rod journaled on said pin, said rod and said pin having cooperating bearing surfaces; said sealing device including a ring fixedly secured to said crankshaft in contact with said web and having a sealing surface, and an element carried by said connecting rod and having a self-aligning surface slidably engaging said sealing surface to provide a closed chamber for retaining lubricant.

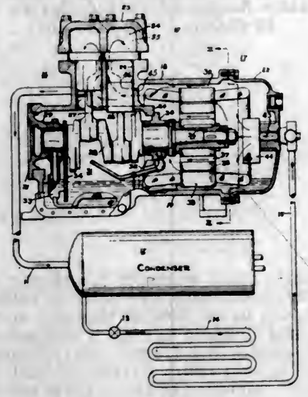
2,283,023
CABLE JOINT CONSTRUCTION
Ernest Williams, Jackson Heights, and Constantine P. Xenis, Little Neck, N. Y., assignors to Consolidated Edison Company of New York, Inc., New York, N. Y., a corporation of New York
Application February 15, 1941, Serial No. 379,017
5 Claims. (Cl. 174—84)



2. An electric cable joint construction comprising a metallic sleeve, a metal sheathed cable extending into an end thereof, a body of solder adjacent the end of the sleeve and integrally sealing the cable sheath in respect to the metallic sleeve, and a plurality of cartridge-like members for receiving heating elements cast in said body of solder.

2,283,024
AIR CONDITIONING APPARATUS
Edward R. Wolfert, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 1, 1938, Serial No. 243,410
1 Claim. (Cl. 230—206)

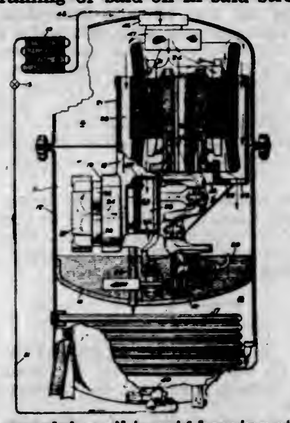
An enclosed motor and compressor unit for a refrigerating system comprising a compressor, a motor for driving the compressor, a common fluid-tight casing for the compressor and the motor, said casing including a crankcase for the compressor and a tubular housing for the motor extending horizontally from the crankcase and having an end wall at the end remote from the crankcase, a substantially vertical partition disposed between said crankcase and said motor housing, a shaft extending horizontally through said partition for connecting said motor and compressor, said motor embodying an armature carried by said shaft and a stator secured in said tubular housing of the casing structure,



said stator and said rotor being so spaced from the end wall of the motor housing as to provide a refrigerant space of substantial volume to effect separation of lubricant by gravity from the refrigerant vapor, means provided on the portion of said casing forming said refrigerant space for admitting vaporous refrigerant having lubricant entrained therein to said space, means provided in the lower portion of the casing for conveying lubricant separated from the refrigerant to the crankcase, and passageway means provided in the casing above the oil therein for conveying refrigerant vapor from said refrigerant space axially through the motor to cool the same and thence to the inlet of the compressor.

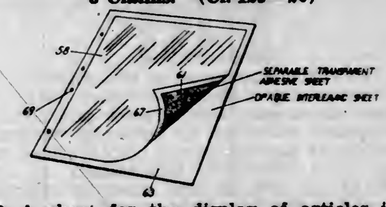
2,283,025
REFRIGERATING APPARATUS
Edward R. Wolfert, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 8, 1939, Serial No. 260,513
6 Claims. (Cl. 230—58)

1. A direct-connected, vertical shaft, motor and compressor unit comprising a compressor and a motor for driving the same, the unit being constructed and arranged so that refrigerant vapor to be compressed in the compressor first flows in contact with the working parts of the motor to cool the same, the unit having a bearing disposed adjacent the path of the refrigerant vapor flowing to the compressor in such position that oil spilling from the top of the bearing would spill into said path of refrigerant vapor, means for supplying oil to said bearing, said bearing having an annular recess at the top for collecting oil from the bearing, and the unit having an oil drain passage formed therein extending from said recess to a region outside said stream so as to avoid entraining of said oil in said stream, and



means for supplying oil to said bearing other than through said oil drain passage.

2,283,026
BOOK
Charles Yates, Perth Amboy, N. J., assignor to Raritan Bay Holding Company, Perth Amboy, N. J., a partnership
Application February 28, 1939, Serial No. 258,901
3 Claims. (Cl. 129—20)

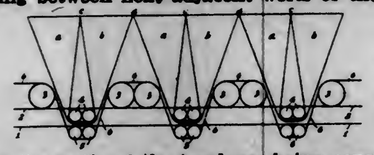


2. A sheet for the display of articles in an album comprising a flexible, film-like sheet of material provided with a transparent pressure sensitive adhesive coating on one side thereof, said pressure sensitive coating enabling articles which are to be displayed to be adherently affixed to and bonded with said coating, said sheet being transparent so that articles so affixed will be visible through and protected by said sheet, and a backing sheet secured to and lightly adhering to the adhesive coating of said sheet and the articles affixed thereto, said backing sheet being incompatible with the adhesive coating to enable ready and repeated separation of said sheets from time to time for the affixing of additional articles to be displayed to the flexible sheet.

2,283,027
FLOOR COVERING
Robert Corwin Allison, Yonkers, N. Y., assignor to Alexander Smith & Sons Carpet Company, Yonkers, N. Y., a corporation of New York
Application August 1, 1940, Serial No. 349,051
4 Claims. (Cl. 139—401)

1. An Axminster pile fabric consisting essentially of U-form warp pile tufts, wefts, binder warps and spacer warps, the wefts being arranged in three vertically spaced layers, the spacer warps lying between the layers of wefts, the binder warps passing above the wefts of the upper layer and below the wefts of the lower

layer to tie the fabric together, the U-form pile tufts being looped about the wefts of the central layer and the legs of each individual pile tuft passing between next adjacent wefts of the top



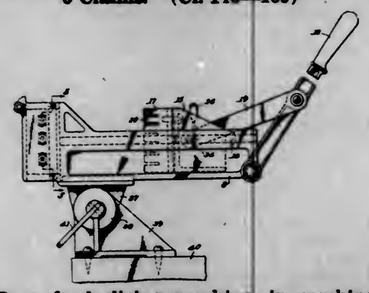
layer, the wefts of the top layer being considerably larger than the other wefts to press the legs of the individual pile into contacting relationship to prevent grinning, there being from four to five rows of pile per inch.

2,283,028
VAPORIZING APPARATUS
Warren G. Bailey, Evanston, Ill., assignor to O-Cedar Corp'n, Chicago, Ill., a corporation of Illinois
Application March 30, 1940, Serial No. 326,948
5 Claims. (Cl. 299—20)



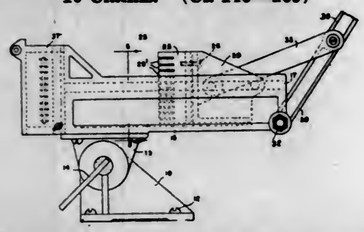
1. Vaporizing apparatus of the character set forth comprising a liquid container having an opening at one end, a closure for said opening, said closure providing an upwardly extending and inwardly tapering porous body provided with spaced slots extending substantially at right angles to the axis of said upwardly-extending body, and means for causing liquid to pass from said container through said porous body.

2,283,029
POTATO-CUTTING DEVICE
Sidney Bakewell, Detroit, Mich.
Application October 12, 1938, Serial No. 234,531
3 Claims. (Cl. 146—169)



1. In a food slicing machine, in combination with a frame having slideway portions therein, a plurality of cutting portions carried by the frame, and means for forcing material through the cutting portions, comprising a pusher block slidable in said ways and having pusher sections spaced in accordance with the spacing of the cutting portions and movable to and from interengaged relation with said cutting portions, as the block slides in the ways, means including a handle for sliding the block, means for interconnecting said block and ways to allow lateral movement of the block out of the ways when desired, comprising slide elements adapted to travel in said ways and pivotally supporting said block, and manually releasable latching means normally preventing lateral movement of the block out of said ways, in all positions of the block and handle.

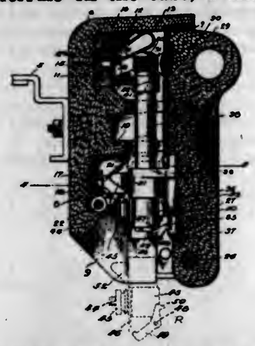
2,283,030
VEGETABLE SLICER
Sidney Bakewell, Detroit, Mich.
Application August 26, 1940, Serial No. 354,169
10 Claims. (Cl. 146—169)



1. A knife block assembly for slicing machine or the like, comprising two pairs of frame members adapted to be secured together with longitudinal ends abutting to form a hollow rectangular knife-supporting frame, each member of at least one of said pears having its said ends inclined with reference to the general plane of the frame, thereby forming wedges adapted to force apart said members abutting the ends of the same and so increase the size of the frame as said wedge members are forced between said ends of the abutting members from one side thereof, the frame members constituting each of said opposed pairs being provided with a plurality of oppositely aligned slots extending substantially perpendicularly therethrough but parallel to the plane of the rectangle, each of said frame members also having a longitudinal channel extending along its outer surface and intersecting said perpendicular slots, a plurality of knives extending through said slots in the frame members constituting each of said opposed pairs, the ends of said knives lying in said longitudinal channels and within the outer surface of said frame members, the knives carried by one pair of frame members being notched to receive, and interengaged with, those of the other, and holding means housed within said longitudinal channels and engaging the ends of the knives to retain the same and exert longitudinal stress thereupon.

2,283,031
INDICATING CUTOUT
Richard W. Barnitz, Parkersburg, W. Va., assignor to Porcelain Products, Inc., Findlay, Ohio, a corporation of Delaware
Application February 18, 1941, Serial No. 379,507
9 Claims. (Cl. 200—114)

9. An enclosed cut-out having a bottomless housing and line terminals therein, spring contacts on said terminals, inwardly projecting portions in the lower side walls of said housing, a door hinged to the housing, a collar on the door, a sleeve on the door beneath the collar and opposite said inwardly projecting portions of the side walls, said sleeve being longitudinally slotted, a fuse-tube slidable vertically through said sleeve and collar, means for releasably latching the tube in operative position, an upper ferrule on the tube, a stop projecting radially from the ferrule, a lower ferrule on the tube, a longitudinal rib



on the ferrule radially spaced from said stop, said rib being slidable through the slot of the sleeve and an extension on said rib occupying the major amount of the space between said inwardly projecting portions of the side walls.

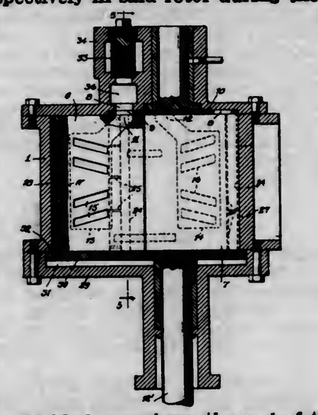
2,283,032
BREAD LOAF BAKING AND APPARATUS THEREFOR
Gustave S. Baxter and Thom C. Baxter, Detroit, Mich., assignors to The Edward Katzinger Company, Chicago, Ill., a corporation of Illinois
Application April 19, 1940, Serial No. 330,500
2 Claims. (Cl. 53—6)



2. A baking pan comprising an open top receptacle of rectangular plan having spaced upright side walls, spaced upright end walls substantially farther apart than the side walls, and a bottom enclosed by said side and end walls, said bottom having a relatively narrow internal surface area extending centrally of said side walls and disposed below a plane through the sidewallward limits of said bottom, and oppositely downwardly inclined sidewallward areas merging gradually into said central area to form therewith a smooth downwardly arched inner surface of uniform transverse cross-sectional contour substantially throughout the distance of said bottom between said end walls.

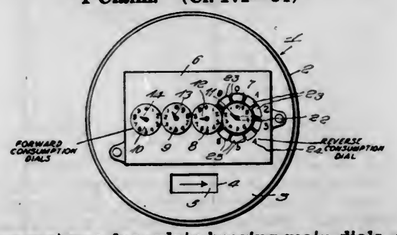
2,283,033
ROTARY VACUUM PUMP
Edward J. Beach, Brooklyn, N. Y., assignor to Beach-Russ Company, Brooklyn, N. Y., a corporation of New York
Application April 6, 1940, Serial No. 328,255
1 Claim. (Cl. 230—153)

In a vacuum pump, a circular casing, an eccentrically arranged rotor operating in said casing, said casing having an arc-shaped inlet in one end concentric to the axis of said rotor, and an outlet in the circular wall thereof, said rotor having a diametrical passageway extending therethrough and opening through one end thereof, said rotor having ports in one end thereof on opposite sides of said axis which are registrable with said arc-shaped inlet for a part of the rotation of said rotor and which open to said passageway, blade members slidable in said passageway, said blade members being hollow and the interiors thereof communicating with the interior of said casing by virtue of openings in the rear walls of said blade members respectively, said blade members having ports therein respectively which communicate with the interiors thereof and which also are registrable with the ports respectively in said rotor during the move-



ment of said blade members, the end of the casing opposite that having the inlet therein being provided with a circular space, a fluid pressure resisted disk loosely surrounding a portion of said rotor and arranged within said space normally in contact with one end of the rotor and the adjacent surfaces of the blade members, and fluid in the space between the disk and the adjacent end of the casing, whereby the disk may move longitudinally of the casing to by-pass sufficient air to make starting of the pump easy.

2,283,034
ELECTRIC METER
Philias Bell, deceased, late of Montreal, Quebec, Canada, by Mary Touchette, administratrix, Montreal, Quebec, Canada, assignor to Joseph Adeodat Laporte, Montreal, Quebec, Canada
Application July 5, 1939, Serial No. 282,925
In Canada July 20, 1938
1 Claim. (Cl. 171—34)



In a meter, a face plate bearing main dials, one of which is a unit dial, and a train of gearing back of the face plate having rotary shafts passing through said face plate, pointers carried by the forward ends of the rotary shafts in cooperating relation to said dials, the face plate being formed with sight openings arranged in a circular path about the unit dial, markings forming an auxiliary dial being provided upon the face plate at ends of the sight openings, a mounting sleeve fixed at one end to the face plate and extending therefrom about the shaft for the pointer of the

unit dial, an outer sleeve rotatable about the mounting sleeve, a pointer for the auxiliary dial carried by the outer sleeve and extending radially therefrom and having a portion exposed through the openings of the face plate during turning of the outer sleeve, a ratchet wheel carried by the outer sleeve, a pawl pivoted intermediate its ends to the forward side face of the gear of the shaft carrying the pointer for the unit dial, said pawl straddling said ratchet wheel and having a bill at one end adapted to slide over teeth of the ratchet wheel during turning of the gear in a normal direction and adapted to engage teeth of the ratchet and turn the outer sleeve to impart movement to the auxiliary pointer when the gear is turned during flow of current in reverse direction through the meter, a ratchet disc carried by the outer sleeve, and a dog engaging the ratchet disc to prevent turning of the outer sleeve in a retrograde direction.

2,283,035

PROCESS FOR THE MANUFACTURE OF 1,4,5,8-TETRAAMINOANTHRAQUINONE

Pierre Bludow, Lyon, France, assignor to Societe "Rhodiaceta," Paris, France

No Drawing. **Application December 23, 1938, Serial No. 247,405. In France December 24, 1937**

4 Claims. (Cl. 260—378)

1. A process for the preparation of 1,4,5,8-tetraaminoanthraquinone consisting in causing 1,4,5,8-tetra-chloranthraquinone to react in an inert solvent with paratoluene sulphonamide in the presence of copper powder and copper acetate constituting catalyzing means and then hydrolysing the condensation product thus obtained.

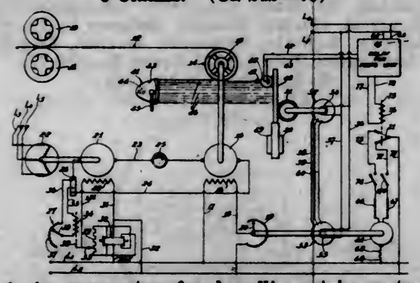
2,283,036

REEL CONTROL

Donald I. Bohn, Pittsburgh, Pa., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application April 15, 1939, Serial No. 268,106

9 Claims. (Cl. 242—75)



1. An apparatus for handling strip material and the like comprising a reel, driving means for said reel, means for adjusting the torque on said reel, a stationary source of radiant energy disposed and adapted to emit a beam of radiations across said reel, means responsive to radiations impinging thereon from said source disposed to receive and sense a small increment of the radiations of said beam and adapted to have movement across said beam of radiations to follow change in radius of material on said reel, means for moving said radiation responsive means as aforesaid in synchronism with the adjustment of said torque-adjusting means, and means connecting said radiation responsive means and said torque-adjusting means, said radiation responsive means and said connecting means being adapted to actuate said torque-adjusting means in response to progressive change in interception of the increment of radiations sensed by said radiation responsive means caused by change in radius of material on said reel.

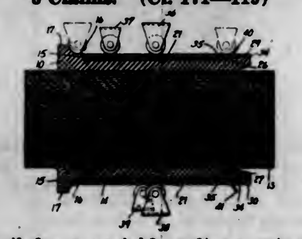
2,283,037

ADJUSTABLE TRANSFORMER COIL

Joseph L. Bonanno, Maplewood, N. J., assignor to The Lionel Corporation, New York, N. Y., a corporation of New York

Application December 7, 1940, Serial No. 369,057

3 Claims. (Cl. 171—119)



1. A coil for a variable voltage output transformer, comprising an insulating spool having a central portion of uniform cross section along the axis and an abrupt shoulder at one end, a winding comprising turns of flat enamelled wire compactly wound on edge on the said portion of uniform cross section with its outer surface exposed and extending from said shoulder to a predetermined distance from the other end, so that a part of said portion of uniform cross section is unoccupied, contact members fixedly secured to the said other end of the spool and extending over the unoccupied portion to engage the winding and keep the turns thereof from collapsing, at least one of the fixed contact members being connected with the end of the winding and having a surface even with the exposed surface of the winding so that a movable contact may pass over the exposed surface of the winding and onto the contact member.

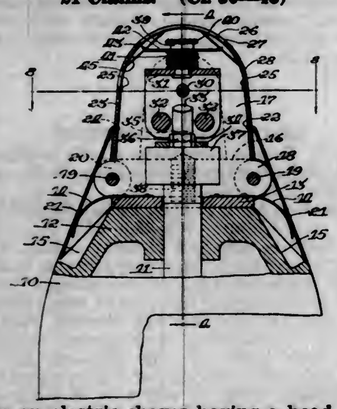
2,283,038

ELECTRIC SHAVER

Charles T. Breitenstein, Chicago, Ill., assignor to Raymond T. Moloney, Chicago, Ill.

Application May 19, 1938, Serial No. 208,813

21 Claims. (Cl. 30—43)



1. In an electric shaver having a head including a rounded perforate skin engaging guard member, the combination with said member of a substantially flat cutter blade disposed flatwise in a plane chordally to the arc of the inner surface of the member and having a cutter edge, means for moving the blade across said inner surface in such chordal planes in a manner to cause said edge to be self-sharpening, and a blade holder included in said means and resiliently pressed toward the guard for carrying said blade at selected points only, to leave a maximum surface of the blade free for yieldable floating accommodation of its cutting edge to the inner surface of said guard.

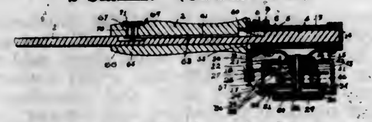
2,283,039

REEL CONTROL

Charles Thomas Bremiller, Utica, N. Y.

Application April 29, 1940, Serial No. 332,153

2 Claims. (Cl. 242—84.5)



1. In a reel control having a brake arm, a member having a recess for the projection of said brake arm, a screw mounted in said member for holding said brake arm in adjustable relation with said first named member, a cam member for engaging said first named member, a shank mounted to said cam member, a finger plate secured to said shank, whereby the movement of said finger plate will actuate said first named member to release the brake member.

2,283,040

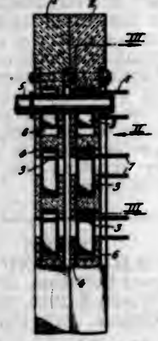
ELECTRIC PLUGGING DEVICE

Friedrich Brinkmann and Heinrich Zodtner, Berlin, Germany, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company

Application December 13, 1940, Serial No. 370,052

In Germany December 13, 1939

4 Claims. (Cl. 173—332)



1. A connector comprising a block of insulating material, a plurality of approximately triangular-shaped recesses formed in said block, an opening to receive a plug in each recess, a spring connector in each recess having a pair of symmetrically formed arms of approximately heart-shape, a curve formed in each connector arm and also at the junction of said arms, said curves projecting inwardly beyond said opening, the arrangement being such that a plug inserted in any of said openings is contacted by the contact spring therein at three radially spaced places.

2,283,041

ELECTRON FOCUSING SYSTEM

Leonard Francis Broadway, Ickenham, England, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain

Application August 30, 1940, Serial No. 354,882

In Great Britain September 7, 1939

3 Claims. (Cl. 250—27.5)



1. A cathode ray tube comprising an envelope, a target within said envelope, a convex cathode facing and exposed to said target, a control electrode adjacent said cathode having a portion effective on electrons emitted by said cathode which is concentric with said convex cathode whereby electrons are directed toward said target along diverging paths, said cathode and control electrode having centers of curvature more remote from said target than the convex surfaces thereof, and means to terminate said diverging paths and direct said electrons along converging paths to said target.

2,283,042

MEANS FOR INTERCONNECTING ELONGATED FLEXIBLE MEMBERS IN PARALLEL

John Joseph Burke, New Haven, Conn., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey

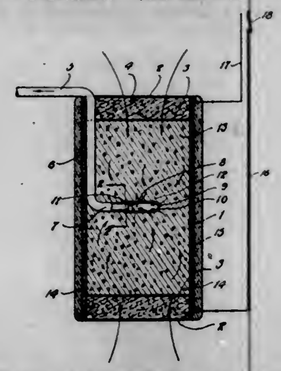
Application June 24, 1940, Serial No. 342,185

19 Claims. (Cl. 24—115)



4. Means for interconnecting a plurality of elongated multi-strand flexible members arranged in side by side relationship substantially parallel to each other comprising a plurality of spaced apart laterally extending members arranged throughout the length of said flexible members for interconnecting the same, each of said interconnecting members consisting of a plurality of spaced apart successively arranged interconnected channel-like portions with the core strand of each of said flexible members disposed in the channel-like portion of one of each of said interconnecting members, said interconnecting members adapted to cooperate therewith to hold the flexible members securely in substantially parallel relation to each other.

2,283,043
AIR DRIER
Albert A. Busch, Detroit, Mich., assignor to Sanosone Corporation, Detroit, Mich., a corporation of Michigan
Application August 7, 1940, Serial No. 351,681
5 Claims. (Cl. 183—4)



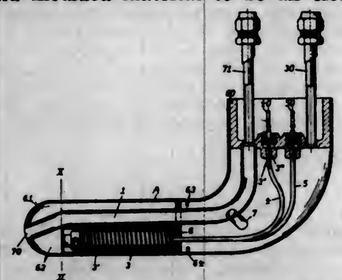
1. A drier for dehumidifying gas comprising a housing open at each end through which the gas passes preparatory to being dehumidified, a conduit for conducting the gas out of the housing having a relatively small inlet approximately centrally of the housing and extending partially across said housing, reactivatable vapor adsorbent material surrounding the inlet in approximately equal amounts between the inlet and the open ends of the housing, said conduit inlet being substantially completely surrounded in all directions by said vapor adsorbent material and an electrical resistance heating element mounted on the outside of the housing for heating the housing and adsorbent material to set up a flow of gas through the housing to reactivate the adsorbent material.

2,283,044
STABILIZATION OF STARCHY PASTE
George V. Caesar, Staten Island, N. Y., assignor to Stein, Hall & Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application September 8, 1939, Serial No. 293,921
3 Claims. (Cl. 106—213)

3. A method of producing thin-boiling gelatinized starch relatively free-flowing at room temperature, which method comprises dispersing starch in water, in an amount of 10% to 25% of starch, at an elevated temperature to gelatinize the starch, and in the presence of ¼% to 2% of an alkali metal per salt to render the dispersion thin-boiling at elevated temperatures and gelable at room temperature; and adding to the dispersion at any stage of its manufacture prior to cooling ½% to 1% of a sulfated higher fatty alcohol to inhibit gelation of the dispersion when it cools to room temperature.

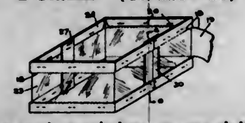
2,283,045
PITOT STATIC TUBE
Victor E. Carbonara, Rockville Centre, N. Y., assignor, by mesne assignments, to Square D Company, Detroit, Mich., a corporation of Michigan
Application February 9, 1937, Serial No. 124,839
12 Claims. (Cl. 73—212)

1. The method of constructing a Pitot static tube comprising arranging the internal and outleading parts of said tube in relative positions desirable for the finished structure; enclosing said parts in a removable hollow mould; moulding a melted solidifiable substance about said parts within said mould and causing the surface of said moulded material to be an electrically



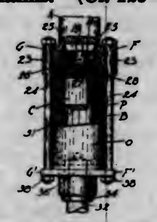
conducting surface and to assume substantially the finished surface contour of said Pitot static tube; electro-depositing a metal about said conducting surface and effecting a self-sustaining combination with said parts; and removing said moulded material by heating and venting.

2,283,046
TRANSPARENT CONTAINER
Norman Edwin Clouston, Granby, Quebec, Canada
Application February 2, 1940, Serial No. 316,893
1 Claim. (Cl. 229—23)



A transparent container comprising side and end walls formed of a continuous strip of cardboard, said cardboard having an approximately perforated strip midway throughout its length and flanges along its upper and lower edges respectively, a transparent strip of material adapted to be inserted between and secured to the upper and lower flanges of said cardboard strip and in face contact with the perforated strip, a receptacle forming the bottom wall of said container and adapted to engage with the lower portions of the side and end walls thereof, a cover forming the top wall of said container and in spaced relation to the upper edge of said receptacle, the perforated strip adapted to be removed, thereby exposing the transparent strip of material in its place.

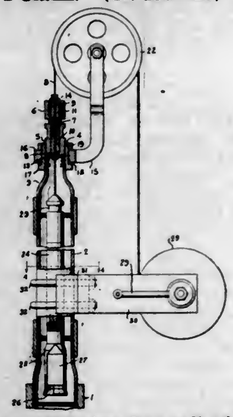
2,283,047
FLUID MACHINE AND HAMMER
Harry Barnes Colestock, St. Paul, Minn.
Application March 8, 1940, Serial No. 322,923
5 Claims. (Cl. 125—34)



3. A hammering device comprising a cylinder,

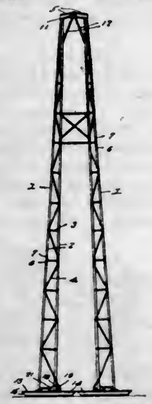
a piston slidable therein, one end of said cylinder having an opening therein to receive a tool to be hammered, a fluid supply conduit communicating with said one end of said cylinder, a boss projecting from the other end of said cylinder, a recess in said piston to accommodate said boss, said boss and said other cylinder end having passages therethrough, and a second fluid supply conduit communicating with said passages.

2,283,048
CLEANING APPARATUS FOR WELLS
James Daviss Collett, Jr., Houston, Tex.
Application June 10, 1940, Serial No. 339,714
1 Claim. (Cl. 166—18)



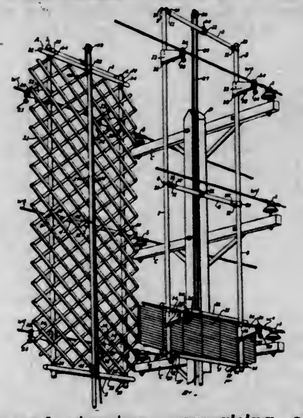
In cleaning apparatus for well pipes, a housing having a wire line stuffing box at one end, a coupling for connecting the stuffing box to the housing, a yoke having one end around the coupling, a sheave for supporting a wire line mounted on the yoke and clamp means on the coupling for clamping the yoke thereon.

2,283,049
DERRICK
Gustave J. Cormier, Jr., Houston, Tex.
Application May 16, 1941, Serial No. 393,808
1 Claim. (Cl. 189—16)



A derrick structure comprising a pair of opposed masts of skeleton form and rectangular shape transversely, each including corner uprights converging upwardly relatively, vertically spaced cross bars connecting the uprights on each side of each mast, diagonal braces on each side of each mast intermediate the cross bars and connecting the uprights together on each of said sides, means pivotally connecting said masts together at their upper ends whereby said masts may be laid horizontally end to end in the ground and raised into upright position by moving the base ends of the same toward each other and elevating the pivotally connected ends of the masts, and a pair of skids for the base ends of the masts respectively, for facilitating moving said base ends together, the base ends of the masts being fulcrumed on the skids to permit the masts to assume upright position thereon, said means comprising a pair of interfitting yokes extending laterally from the upper ends of the masts, respectively, and connected in hinging relation, said yokes comprising arms supporting the masts at their upper ends, when said masts are laid end to end, in upwardly and inwardly inclined positions to thereby prevent the same from assuming a dead center relation blocking movement of their base ends together.

2,283,050
GUARD STRUCTURE
Merle L. Fisher, Canton, Ohio, assignor to James R. Kearney Corporation, St. Louis, Mo., a corporation of Missouri
Application July 17, 1941, Serial No. 402,804
11 Claims. (Cl. 174—5)

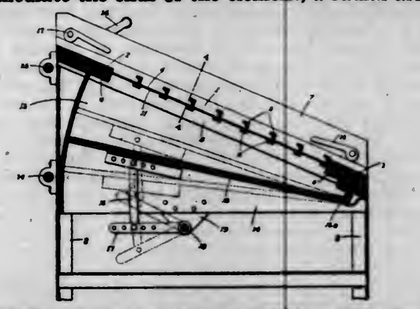


1. A guard structure comprising a frame, means for supporting said frame in its operative position, a guard wall supported by said frame and movable to extended and collapsed positions, and means for moving said guard wall from its collapsed position to its extended position while said guard wall is supported by said frame, said guard wall moving means comprising a lift-pole supported by said frame, and means associated with said lift-pole for drawing said guard wall to its extended position.

2,283,051
PORTABLE DRY CONCENTRATOR
Charles M. Fuller, Lodi, Calif., assignor to E. D. Wilkinson, Stockton, Calif.
Application January 15, 1940, Serial No. 313,877
1 Claim. (Cl. 209—475)

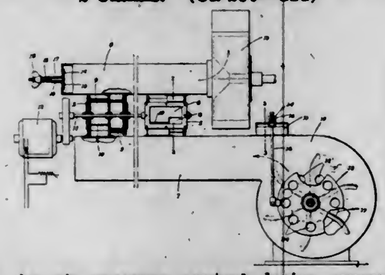
A dry concentrator comprising means forming an air pressure chamber open to the top, a concentrating table having a bottom pervious to air mounted over and closing the top of the cham-

ber, a bellows element forming the bottom of the chamber, means pivoting the element at one end for oscillating movement toward and from the table, a transverse oscillatory shaft disposed intermediate the ends of the element, a radial arm



projecting from the shaft and substantially parallel to the element, a link connected at one end to the arm at different selected points in the length thereof, and means connecting the link at its other end to the bellows element at different selected points in the length thereof.

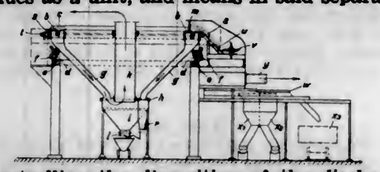
2,283,052
AIR CONTROL
Charles M. Fuller, Lodi, Calif., assignor to E. D. Wilkinson, Stockton, Calif.
Application May 6, 1940, Serial No. 333,453
2 Claims. (Cl. 230—114)



1. An air pressure control device comprising with a pressure conduit having an outlet and a blower including a housing to the outlet of which the conduit is connected, the housing having an auxiliary intake opening, a movable closure shutter for said opening, a movable diaphragm exposed to pressure within the housing adjacent the conduit, a guided stem projecting from the diaphragm at right angles thereto, an arm extending over the stem and having an element intermediate its ends contacting with the stem, a pivot mounting for one end of the arm, a link connecting the other end of the arm and the shutter to move the latter with movement of the arm about its pivot, and means applied to the arm to provide a yieldable resistance to the movement of the same by pressure against the housing side of the diaphragm.

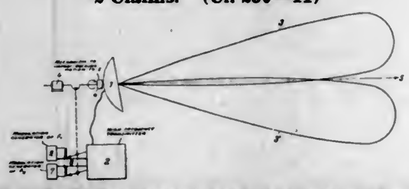
2,283,053
SINTERING DEVICE
Kurt Rudolf Göhre, Frankfort-on-the-Main, Germany, assignor to American Lurgi Corporation, New York, N. Y., a corporation of New York
Application November 26, 1940, Serial No. 367,291
In Germany October 26, 1939
3 Claims. (Cl. 266—21)

1. Sintering device comprising an annular grate, suction chambers below said grate, a dust separator below said chambers, downwardly inclined flues from said chambers to said separator, means for rotating said grate, chambers and flues as a unit, and means in said separator



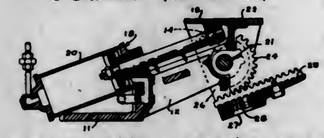
for controlling the disposition of the discharge from said flues, said flues being connected to the bottom of said suction chambers and with the flues having a size to correspond to the size of the cross section of the suction chamber.

2,283,054
DIRECTIONAL TRANSMITTER
Erich Gossel, Berlin, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application December 27, 1939, Serial No. 311,097
In Germany January 7, 1939
2 Claims. (Cl. 250—11)



2. A high frequency transmitter system for obtaining course lines, comprising a pivotally mounted emitter capable of continually producing a sharply concentrated club-shaped directional radiation pattern, a high frequency generator therefor, a mechanical drive for imparting a regular rocking motion to the said emitter, two modulation generators adapted to produce two different frequencies for modulating said high frequency generator, and means physically coupled to the said mechanical drive for varying nonlinearly the amplitudes of said modulation frequencies in a mutually opposing sense in response to the regular movement of the said emitter.

2,283,055
GLASS WORKING APPARATUS
David E. Gray and Leander N. Pond, Corning, N. Y., and Walter C. Weber, West Hartford, Conn., assignors to Corning Glass Works, Corning, N. Y., a corporation of New York
Original application August 12, 1938, Serial No. 224,628. Divided and this application December 11, 1939, Serial No. 308,708
3 Claims. (Cl. 49—42)



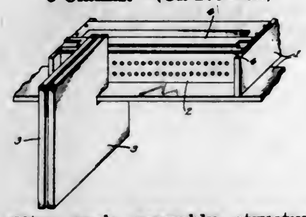
2. In a glass working apparatus, supports for the respective halves of a divided mold assembly arranged in the same horizontal plane when in position to hold mold haves supported thereby in cooperative relation, an inclined track having one of said supports associated with it located at its high end when they are in a position to hold the mold halves closed, means for moving the support associated with said track back and forth thereover, a pin carrying a gear for swinging the other of said supports into and out of cooperative relation with the support associated with said track, and a rack associated with said means arranged in mesh with said gear.

2,283,056
PISTON PACKING
Louis Sobrino Guardiola, Brussels, Belgium
Application May 13, 1940, Serial No. 334,936
In Germany May 13, 1939
4 Claims. (Cl. 309—7)



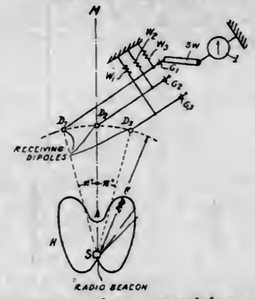
4. In a piston packing arrangement, a piston having an annular groove therein, an annular relatively deep recess in the bottom of said groove, a substantially T-shaped section unsplit ring moving with radial play in said groove, the interior flange of said ring being radially guided in said recess, an unsplit flat section ring to slide radially in said groove, the shank of the said T-shaped ring extending parallel to the bottom of said groove and resting upon said flat ring, a channel being formed between the exterior flange and the web of said T-shaped ring and said flat ring, two piston rings for sliding with radial play in said channel, a split in each of the piston rings, the split in one piston ring being diametrically opposed to the split in the other piston ring, resilient means interposed between the bottom of the channel and each of the piston rings for forcing the latter in mutually opposite directions, resilient means interposed between the bottom of the groove in the piston and each of the two unsplit rings for forcing the latter bodily in diametrically opposite directions, each unsplit ring being urged in a direction to cover the split region of the adjacent split ring, means for securing said unsplit rings and said piston rings in fixed angular position relative to the piston, and means associated with the piston for fitting the unsplit rings in the piston groove.

2,283,057
WIRE CARRIER SYSTEM
Wolfgang Hagen and Theodor Nickel, Berlin, Germany, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application May 1, 1940, Serial No. 332,636
In Germany May 12, 1939
5 Claims. (Cl. 179—98)



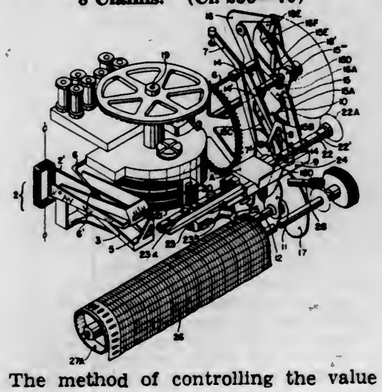
1. A filter rack assembly structure for a telephone exchange system which comprises, a main distributing frame in this exchange, jack strips forming part of this distributing frame, telephone lines connected to said jack strips, these strips having holes for the insertion of junction plugs, break contacts in said telephone lines, separating filters each comprising a high-pass filter section, a low-pass filter section and a casing for these sections, said filters having conductive plug pins adapted to be inserted in said holes and thereby to open the said break contacts, thus looping the low-pass filter into the telephone line connected to said break contacts, two contact bars to be supplied with high frequency energy, and contact means, carried by said filters, for connecting these bars to the high-pass filter when said plug pins are inserted in said holes.

2,283,058
SUPERVISORY MEANS FOR HIGH FREQUENCY RADIATIONS
Walter Max Hahnemann and Ernst Kramar, Berlin, Germany, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application April 6, 1940, Serial No. 328,244
In Germany April 26, 1939
1 Claim. (Cl. 250—11)



An arrangement for supervising radiation diagrams which comprises means to produce a radiation pattern having different energy levels in different directions, receiving antennae located in the field of this radiation pattern at fixed positions at different energy levels, means to rectify energy derived from these antennae, a supervisory instrument alternately connected to such rectifying means, conductors for connecting said antennae to said rectifying means and shunt connections for equalizing the energy derived from said antennae connected to said conductors.

2,283,059
CONTROL INSTRUMENT
Thomas R. Harrison, Wyncote, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application May 20, 1939, Serial No. 274,855
8 Claims. (Cl. 236—70)



8. The method of controlling the value of a
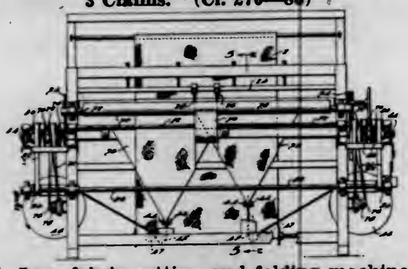
variable condition which comprises continuously adjusting a condition controlling medium in a diminishing direction when the condition is above normal and when the condition is below normal and rising, and continuously adjusting the medium in an increasing direction when the condition is below normal and falling.

2,283,060

FABRIC SLITTING AND FOLDING MACHINE

Hubert B. Hathaway, Windsor, Ontario, Canada, assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich., a corporation of Michigan

Application April 11, 1940, Serial No. 329,024
3 Claims. (Cl. 270—86)



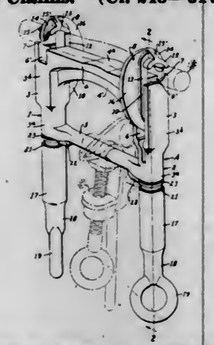
1. In a fabric cutting and folding machine, a guide roll positioned to receive fabric material from a bale or roll, a guide member associated with the guide roll, a fabric driving member, a rotatable member positioned to receive the fabric, cutting elements associated with the rotatable member to slit the fabric into a plurality of strips of a substantially predetermined width, folding devices having angularly inclined side walls terminating in an apex over which the strips from the cutting elements may pass, spaced rolls to receive the folded fabric, a shaft to receive scrap fabric material, a single source of power, and drive means from the single source of power to drive the driving member, the rotatable member, the spaced folded fabric receiving rolls and the scrap fabric receiving shaft.

2,283,061

HANGER FOR ELECTRICAL CONDUCTORS

Flavius J. Hendley, Chattanooga, Tenn.

Application July 20, 1940, Serial No. 346,573
6 Claims. (Cl. 248—317)



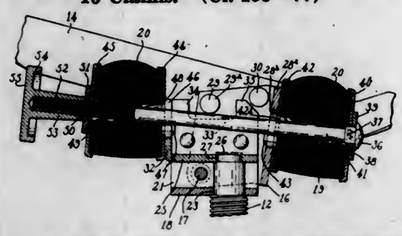
5. A hanger adapted for association with an electrical conductor comprising a pair of spaced clamps, said clamps comprising each a body portion having a part which provides a fixed jaw, and a movable jaw which is guided for movement by and with respect to said body portion, said movable jaw of each clamp including a screw-threaded shank, a nut associated with the screw-threaded shank of each clamp, and a bar connecting the body portions of the pair of clamps and adapted to support an article of electrical equipment, each of said nuts including an elongated cylindrical portion which is provided with internal screwthreads that engage the screw-threads of the shank with which it is associated and said elongated cylindrical portion of each nut completely embracing the outer end portion of the associated shank.

2,283,062

TILTING CHAIR MOUNTING

Walter F. Herold, Bridgeport, Conn., assignor to The Bassick Company, Bridgeport, Conn., a corporation of Connecticut

Application June 15, 1939, Serial No. 279,318
16 Claims. (Cl. 155—77)



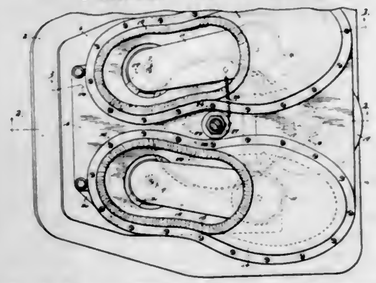
7. In a chair iron structure, a post-connected frame having a substantially upright part, a chair-seat-supporting spanner member hinged to said frame for tilting movement and having a substantially upright part facing that of the frame, a substantially horizontal rod passing with clearance through said substantially upright parts and having end portions extending beyond them, resilient seat-cushioning members surrounding said end portions, and elements on the end portions of the rod holding the respective resilient members in position against the respective members of the frame-spanner structure with the rod under tension and tiltably and resiliently held at one end from the spanner member for free swinging and translating movements, the rearward tilting of the chair seat causing a pull on the rod through the resilient member adjacent the spanner which pull acts to compress the other resilient member.

2,283,063

SHOE-POLISHING MACHINE

Herbert M. Heuver, Seattle, Wash.

Application January 17, 1940, Serial No. 314,297
3 Claims. (Cl. 15—97)



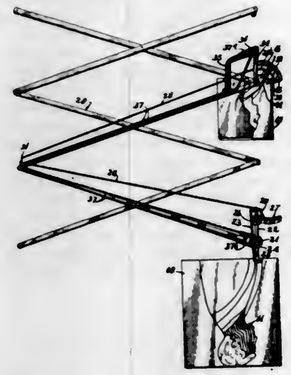
3. In a shoe-polishing machine, in combination: a motor; a polishing device; an eccentric means driven from the motor and having interconnection with the polishing device to bodily move the latter in an approximately circular path, said eccentric means being freely mounted for movement away from its center of rotation; means for yieldingly urging said eccentric means back towards said center of rotation; means operatively associated with the polishing device arranged and adapted to constrain the eccentric-influenced polishing device against rotation; and a foot-rest for supporting a shoe in polishing relation to said eccentric-influenced polishing device.

2,283,064

CUTTING AND REDUCING DEVICE FOR RELIEF PICTURES

David Hilbrand, New York, N. Y.

Application October 10, 1941, Serial No. 414,406
14 Claims. (Cl. 90—13.1)



1. A cutting and reducing device for relief pictures, comprising a pantograph, a gear turnably mounted on one of the arms of said pantograph, a following rod coaxially fixedly mounted through said gear, a following pointer mounted on said rod, a cam movably mounted on said rod and adapted to control the separation of said pointer and rod, a cable connected with said cam for communicating the position of the cam, a bar turnably mounted on another one of the arms of said pantograph at a similar point to the point of location of said gear on said pantograph arm, a gear mounted on said bar, an endless member connecting said gears for turning the last mentioned gear the same angular amount as said first mentioned gear, an arcuate member mounted on said bar and having its center directly below said bar, a cutting tool located at the center of said arcuate member and movably supported on said arcuate member to pivot about said center, and means actuated by said cable for moving said cutting tool in relation to the position of said cam.

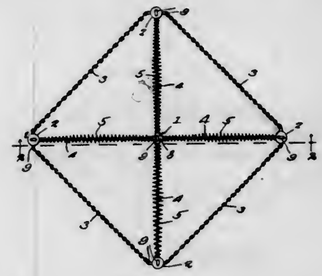
2,283,065

CHAIN SHOT

Thurman Hawkins Hunter, White Bluffs, Tenn.

Application June 5, 1941, Serial No. 396,763
6 Claims. (Cl. 102—29)

1. A chain shot comprising an anchor, projectiles uniformly distributed on the surface of an imaginary sphere whereof the anchor is the center, an outer chain connecting each projectile with the next adjoining projectile, a radial chain connecting each projectile with the anchor, and expansion springs through which the radial



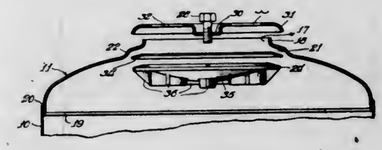
chains pass, each spring exerting outward pressure on one projectile, all of the springs exerting inward pressure on the anchor.

2,283,066

CLOSED RECEPTACLE

Roy C. Ingersoll, Winnetka, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application April 28, 1939, Serial No. 270,529
1 Claim. (Cl. 220—25)



A tank comprising a cylindrical sheet metal shell, sheet metal heads permanently secured to the shell to close the ends thereof, one of said heads being continuously tapered and terminating in a large opening symmetrically disposed about the axis of the tank and defined by a stiffening flange formed from the sheet metal of the head, said opening having an axially outward extending edge, a cast metal closure member insertable into the opening and having an edge region adapted to seat against the tapered head at the base of the flange, a pressed metal cover abutting the axially extending edge of the flange on the head, a stiffening flange on the cover embracing the flange on the head, and means for drawing the closure member and cover together to compress the head flange therebetween to form a fluid tight seal.

2,283,067

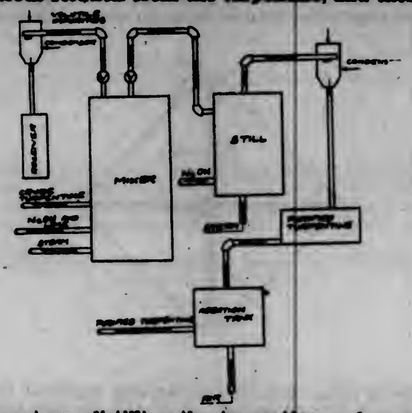
PROCESS FOR REFINING SULPHATE WOOD TURPENTINE

William H. Jennings, Portsmouth, Va.

Application November 2, 1939, Serial No. 302,603
4 Claims. (Cl. 202—57)

1. The process of refining sulphate wood turpentine containing sulphur compounds as an impurity which comprises heating the turpentine with an aqueous solution of caustic soda and lime without substantially vaporizing the turpentine itself to effect substantial removal of said

impurities from the turpentine, separating the aqueous solution from the turpentine, and thereafter steam-distilling the turpentine and recovering a purified turpentine distillate.

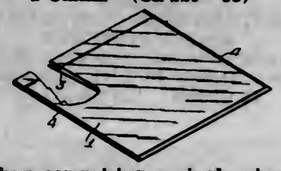


2,283,068
PROPELLER
Harry J. Johnson, Alma, Colo.
Application December 12, 1939, Serial No. 308,853
2 Claims. (Cl. 170—172)



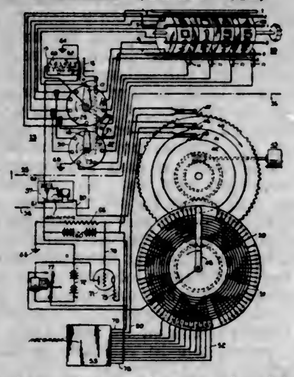
1. A propeller of the class described comprising a hollow hub and hollow blades radiating from said hub, the front edge of each blade having an opening therein which extends from the central portion of the front edge of the hub to a point at the front edge of each blade an appreciable distance from the hub, a pair of deflector plates in the propeller in rear of each opening and each plate extending from a point at the center of the front and side edge of the hub to the trailing edge of a blade and each plate curving rearwardly and outwardly and deflecting the air entering an opening to the outer end of a blade, the outer end of each blade having an opening therein which passes through the trailing edge and through the pressure face of the blade, the front wall of the opening, in the pressure face of the blade, curving from the trailing edge forwardly and outwardly to the outer end of the blade, a longitudinal row of spaced deflector plates having their rear ends extending into the last-mentioned opening and said ends being substantially at right angles to the length of the blade with the forward ends of these plates located between the suction and pressure faces of the blade and slightly curving toward the hub and said plates acting to deflect air passing through each blade toward the trailing edge of the blade said plates being unequally spaced apart with the plates at the inner end of the row placed closer together than the other plates.

2,283,069
BAG AND METHOD OF MAKING SAME
Paul Knuetter, Philadelphia, Pa., assignor to Thomas M. Royal & Company, Philadelphia, Pa., a corporation of Pennsylvania
Application December 6, 1939, Serial No. 307,894
1 Claim. (Cl. 229—53)



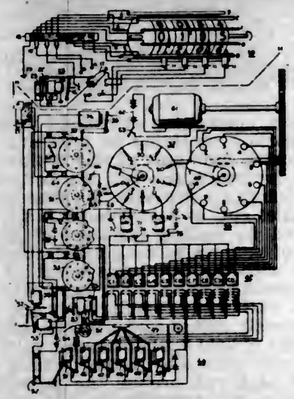
A flat bag comprising a single piece of heat fusible sheet material folded substantially double upon itself in predetermined lapping relation with the lapped portions of said sheet forming the only walls of the bag, said bag having its folded edge portion tucked inwardly of the lapped wall portions of the bag from side to side thereof and providing a reentrant bellows fold entirely across the bottom of the bag, the lapped wall portions of the bag and the interposed reentrant bellows fold at the bottom thereof being fused together at the opposite side edges only of the bag from the top to the bottom thereof.

2,283,070
AUTOMATIC METER-READING APPARATUS
Ward Leathers, Brooklyn, N. Y., assignor, by mesne assignments, to International Business Machines Corporation
Application October 18, 1940, Serial No. 361,799
6 Claims. (Cl. 177—351)



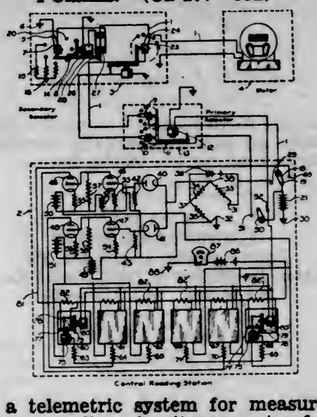
1. In a telemetric system, a plurality of parallel reading circuits adapted to be individually and selectively closed to render indications of a plurality of respective magnitudes, a rotary selector switch including a plurality of terminal contacts for each circuit, said terminal contacts being arranged in a plurality of groups corresponding to the number of magnitudes, each group being inclusive of an entire set of the circuit contacts and the contacts in each group being similarly arranged, a scanning arm for successively and separately scanning the contacts of each group in succession and for traversing the groups successively, a source of energizing current for the circuits, a normally open relay-actuated switch common to all of said circuits for closing the selected circuit through the source and scanning arm, an impedance circuit including a resistance, means operable in phase with the scanning arm for energizing said impedance circuit to establish a predetermined potential differential across the resistance when the scanning arm is in engagement with a contact of each group whose circuit corresponds to the value of its respective magnitude, and means operable upon establishment of said potential differential across the resistance for actuating the relay-actuated switch.

2,283,071
AUTOMATIC METER-READING APPARATUS
Ward Leathers, Brooklyn, N. Y., assignor, by mesne assignments, to International Business Machines Corporation
Application October 18, 1940, Serial No. 361,800
9 Claims. (Cl. 177—351)



1. In a telemetering system, a plurality of parallel work circuits adapted to be individually and selectively closed to render indications of a plurality of respective magnitudes, a rotary selector switch including terminal contacts for each circuit and a scanning arm for successively and separately scanning the contacts, a source of energizing current for the circuits connected to the scanning arm, a normally open relay-actuated switch for closing the selected circuits through the source and scanning arm, a relay responsive to a predetermined electrical characteristic only for closing the relay-actuated switch, a second rotary selector switch including a plurality of contacts and a scanning arm for successively and separately scanning the contacts, means for rotating said scanning arms in phase with each other whereby corresponding contacts of each switch are simultaneously scanned, a resistance circuit, a plurality of balancing resistances of different values each connected to one of the contacts of the latter selector switch, said latter scanning arm being adapted upon rotation thereof to successively and separately connect said balancing resistances in the resistance circuit, a plurality of primary resistances having values complementary to said balancing resistances and designed when arranged in pairs therewith to establish said predetermined electrical characteristic in the resistance circuit, said primary resistances corresponding to said magnitudes respectively, and a rotary phasing switch for separately and successively connecting said primary resistances in the resistance circuit whereby rotation of said scanning arms will place the individual balancing resistances in the resistance circuit in series with the individual primary resistances, and means for periodically indexing the phasing switch.

2,283,072
AUTOMATIC METER-READING APPARATUS
Ward Leathers, Brooklyn, N. Y., assignor, by mesne assignments, to International Business Machines Corporation
Application October 18, 1940, Serial No. 361,803
4 Claims. (Cl. 177—351)

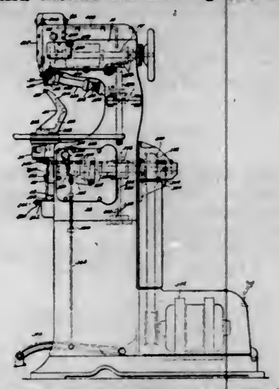


1. In a telemetric system for measuring resistances over a line circuit, apparatus for automatically balancing the resistance of the line circuit to bring the same to a predetermined value comprising a bridge circuit having a plurality of resistance sides of predetermined values, a switch for connecting the line circuit as another side of said bridge circuit, a current source for establishing a potential differential between one pair of bridge side junctions, electronic means connected to said pair of bridge side junctions for amplifying the potential differential thereacross when the latter is of one polarity, additional electronic means connected to said pair of junctions for amplifying the potential differential thereacross when the latter is of the opposite polarity, a line balancing circuit, a series of balancing resistances therefor, a relay for each balancing resistance, means responsive to the operation of one group of relays for connecting their respective resistances in the balancing circuit, means responsive to another group thereof for shunting their respective resistances from the balancing circuit, and means connecting the relays of each group to the output circuits of the electronic means respectively.

2,283,073
SEWING MACHINE
Bernard T. Leveque, Wenham, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application April 19, 1939, Serial No. 268,708
42 Claims. (Cl. 112—36)

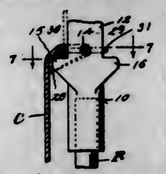
1. A lockstitch sewing machine having, in combination, stitch forming devices including a straight hook needle, a work piercing awl, and a loop taker at the side of the work with the

needle and awl, a work supporting horn, a presser foot, and means for moving the needle and



awl back and forth together along the line of the seam about an axis substantially parallel to the work supporting surface of the horn.

2,283,074
UMBRELLA RIB TIP
Joseph Levin, Lancaster, Pa.
Application December 4, 1940, Serial No. 368,546
6 Claims. (Cl. 135—36)



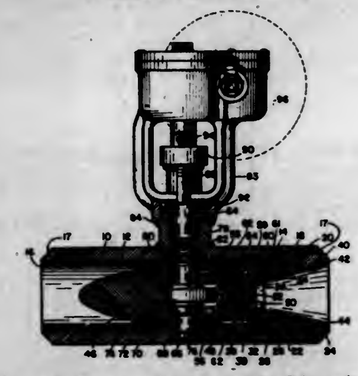
1. As a new article of manufacture, a tip for umbrellas, parasols and the like, comprising a socket member, a stem extending axially of said socket member, a head on said stem, and a laterally projecting abutment disposed at substantially the junction of said socket and stem, said stem having a transversely disposed opening therethrough adjacent said abutment and extending transversely of said abutment.

2,283,075
THERMOSTAT
Howard D. Matthews, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application April 11, 1940, Serial No. 329,125
2 Claims. (Cl. 297—16)



1. A device of the character described comprising a bimetal strip with a first portion of minor convolutions wound into major convolutions, and a second portion of said strip continuing from an end of said first portion wound into a helix in the same direction as said major convolutions, said first portion being movable axially and angularly in a first direction upon heating, and said second portion being movable angularly in the opposite direction upon heating to compensate said first portion for angular movement.

2,283,076
VALVE
John D. Mattimore, Greensburg, Pa., assignor to Walworth Patents Inc., Boston, Mass., a corporation of Massachusetts
Application October 1, 1940, Serial No. 359,217
8 Claims. (Cl. 251—40)

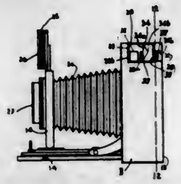


1. A valve, comprising a wrought metal tubular body portion providing an inlet and an outlet at opposite ends and having a flow passage extending uniformly through the body therebetween, a tubular valve seat member projecting into the inlet end of said tubular body and being secured in sealing engagement therewith, the bore of said valve seat being substantially concentric with the flow passage but of reduced area, a rotatable valve stem supported in one side of the wall of said tubular body and projecting transversely across said passage through the opposite side of said wall, a tubular valve bonnet enclosing said stem and having sealing engagement with said wall around the projecting end of said stem, a valve member on said stem having an elongated body of streamlined form in axial alignment with the valve seat, said valve member being spaced from the wall of said tubular body portion for defining an annular flow area in said flow passage beyond the valve seat, a sleeve member projecting from said valve seat around said valve member forming a guide and support therefor, said valve having a port affording communication between said flow area and the bore of said tubular valve seat member, and means operable between said stem and valve member to reciprocate the latter into and out of engagement with the seat along the axis of said flow passage upon rotation of said stem.

2,283,077
CAMERA FOCUSING DEVICE
John A. Maurer, Jr., New York, N. Y., assignor to J. A. Maurer, Inc., New York, N. Y., a corporation of New York
Application May 29, 1941, Serial No. 395,725
3 Claims. (Cl. 95—44)

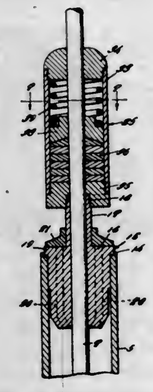
1. In a camera which has a camera body, a revolving back adapted to support a sensitized element in the focal plane of said camera, said revolving back being substantially the entire back of the camera, a lens board movable towards and away from said focal plane, and a photographic objective mounted on said lens board, a focusing device including a screen supported within said

camera body parallel to and in front of said focal plane, said screen being small compared to said sensitized element; a lens having the same focal length as said photographic objective and supported by said lens board for operation substantially in the plane of said photographic objective, said lens being detached from said camera body; a pair of Porro prisms supported within said camera body for directing light from said



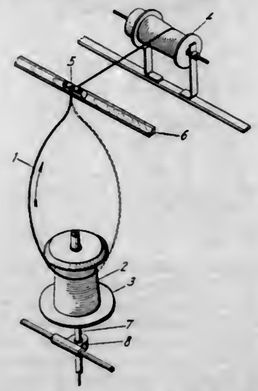
lens to said screen, said screen and said prisms being positioned so that the optical distance from said lens to said screen is equal to the optical distance from said photographic objective to said focal plane; a first magnifying eyepiece in said revolving back for examining said screen, and a second magnifying eyepiece in said revolving back and in such a position that, when said back is revolved, said screen can be examined through said second magnifying eyepiece.

2,283,078
CHECK VALVE FOR WELL PUMPS
Roger M. McClure, Delaware, Okla.
Application April 5, 1940, Serial No. 328,136
1 Claim. (Cl. 103—202)



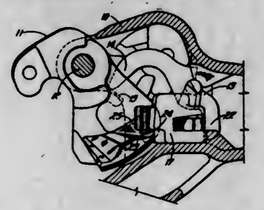
In a device of the class described, a check valve plug shaped body snugly fitted in a pump barrel and having a flange on its upper edge resting on the upper end of a section of the barrel, said body including a flat seat at its upper end and a plurality of fluid passages opening through said seat from the opposite end of said body and a central passage and a sleeve integral with the seat and aligning with the latter-named passage, said central passage and sleeve coacting to slidably support a reciprocal plunger stem throughout the length of the body and sleeve, a valve element slidable on said sleeve and including a flat face to coact with the seat in closing said fluid passages, and a packing member slidably receiving the stem and threaded on the sleeve and supported against movement with the stem by said body.

2,283,079
CAKE HOLDER
Henry J. McDermott, Prospect Park, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application July 2, 1940, Serial No. 343,538
2 Claims. (Cl. 242—128)



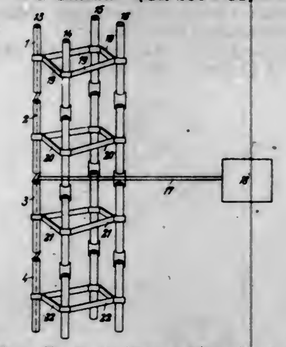
1. Means for supporting and unwinding a yarn package comprising a shaft, a yarn package supporting base mounted on the shaft, a hub mounted on the shaft and spaced from the base, yarn package retaining means comprising loops of spring material attached to the hub and adapted to engage a yarn package supported on the base, and a member mounted on the shaft over the edge of which yarn may be withdrawn from a yarn package supported on the base.

2,283,080
CAR COUPLER
William J. Metzger, Cleveland, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio
Application January 26, 1940, Serial No. 315,768
2 Claims. (Cl. 213—142)



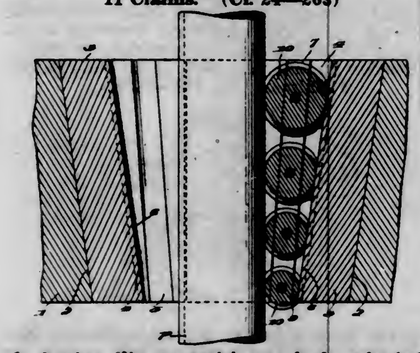
1. A car coupler having a head, a knuckle pivoted to said head and having a tail, a lock for said knuckle, said lock when said knuckle is in open position being supported solely by said tail, and abruptly inclined abutment means on said tail being so disposed thereon that after a predetermined amount of movement of said knuckle from open toward closed position unrestricted by said abutment means said means is adapted to engage said lock to retard further closing of said knuckle except under the action of a positive closing force applied directly to the knuckle.

2,283,081
DIRECTIONAL ANTENNA
Emil Metschl, Berlin, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application November 9, 1939, Serial No. 303,520
In Germany November 9, 1938
1 Claim. (Cl. 250—33)



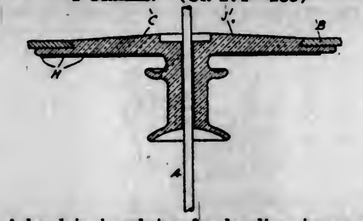
A rigid unitary antenna structure for short waves and of the type employing a plurality of sets of rigid tubular dipoles, the sets being arranged with corresponding dipoles in end-on aligned relation and substantially entirely free from horizontally radiating antenna sections, a transmission line for impressing high frequency waves on said dipoles at such a frequency related to the length of each dipole that a potential node exists approximately at the center of each dipole, and a rigid support frame having side arms and having at substantially equally spaced points therearound means to grip rigidly each dipole at the point of potential node whereby the vertical and horizontal spacing of all the dipoles is permanently maintained.

2,283,082
PIPE SLIP
George Miether, Odessa, Tex.
Application February 19, 1941, Serial No. 379,657
11 Claims. (Cl. 24—263)



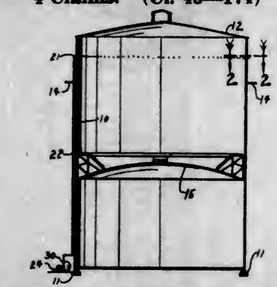
1. A pipe slip comprising a body adapted to be disposed beside a pipe and having an inclined inner face in position to be disposed toward the pipe at an angle to the axis thereof, a roller arranged in bearing relation to said inner face in position for pressure engagement with the pipe, and means mounting said roller in the body for bodily movement of said roller toward and from said inclined inner face and lengthwise relative thereto for wedging action between said face and the pipe.

2,283,083
INSULATOR
Alois Neubauer, Berlin, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Lorenzweg, Germany, a company
Application May 20, 1939, Serial No. 274,797
In Germany May 23, 1938
4 Claims. (Cl. 174—139)



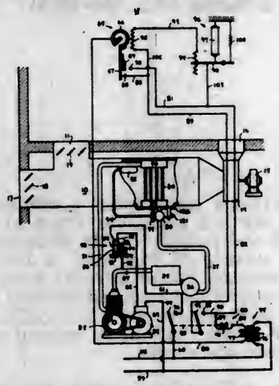
1. A lead-in insulator for leading-in an antenna through an exterior wall of an aeroplane which comprises an insulating body provided with a disc-like flange whose periphery is shaped to fit against a generally flat exterior wall, shaped to present a generally-flat overall surface on the exterior side of said periphery, pierced by an aperture suitable for the passage of a lead-in wire, and formed with an extended surface generally parallel to said generally flat exterior surface but on the interior side of said periphery, and an electric heater disposed wholly on the interior side of said periphery and in proximity to said extended surface for artificially raising the temperature of both the interior and exterior surfaces of said insulator.

2,283,084
GAS HOLDER LUBRICATING DEVICE
Daniel L. Newkirk, Dearborn, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application October 4, 1940, Serial No. 359,666
4 Claims. (Cl. 48—174)



1. A device for lubricating the inside wall of a gas holder, said holder comprising a cylinder having a diaphragm reciprocally mounted therein, the periphery of which slides up and down along the inside wall of said cylinder, comprising, a header encircling the upper portion of said cylinder, means for supplying lubricating fluid under pressure to said header, a plurality of individual containers closely coupled to said header by short conduits, a selectively operable valve in each of said conduits by means of which said containers may be individually filled with lubricant from said header, a drip jet associated with each of said containers through which the fluid in said containers is slowly drawn therefrom, and tubes conducting said fluid from each of said jets through the adjacent wall of said cylinder and directing same to run down the inside wall of said cylinder, said streams of fluid spreading laterally along said inside wall to form a continuous film of lubricant over the entire circumference of said inside wall a short distance below the elevation of said tubes.

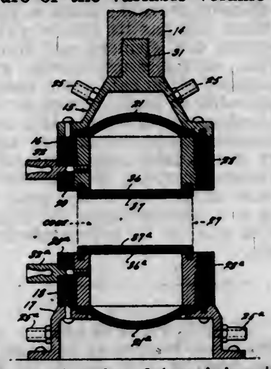
2,283,085
AIR CONDITIONING
Alwin B. Newton, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application April 17, 1939, Serial No. 268,234
9 Claims. (Cl. 62—6)



9. A method of conditioning air for a space which comprises removing sensible and latent heat by passing unconditioned air at substantially constant velocity over an evaporator of a refrigerating system which is continually supplied during effective periods of operation with refrigerant passing serially through said entire evaporator and at such a rate of flow as to maintain a substantially constant degree of superheat at the outlet of said evaporator, intermittently rendering said evaporator effective and ineffective over a period of time during which said space requires cooling and regulating the total time consumed by said effective periods in accordance with the sensible heat load on said space during said period of time for maintaining the dry bulb temperature in said space substantially constant, increasing the duration of said effective periods upon an increase in space humidity and decreasing the duration of said effective periods upon a decrease in space humidity without affecting the average temperature of the air leaving said evaporator, or the total time consumed by said effective periods, whereby the amount of sensible heat removed from the air by said evaporator over said period of time will be unaffected by the humidity in said space.

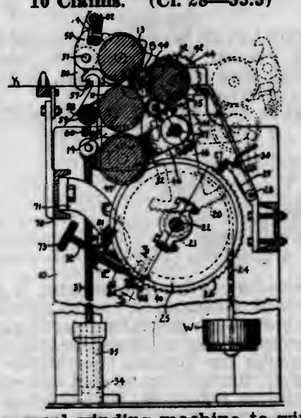
2,283,086
METHOD AND APPARATUS FOR ANALYSIS
Charles W. Oliphant, Tulsa, Okla.
Application March 26, 1940, Serial No. 326,102
7 Claims. (Cl. 175—183)

3. An apparatus for determining the capacitance of irregularly shaped bodies including a base and frame member, relatively movable condenser plate supports, and condenser plate units operably associated with said supports, said condenser plate units comprising variable volume means, resilient members in pressure transmitting contact with said variable volume means, said resilient members being provided with thin surfaces of a conductive metal, the metal surfaces of said resilient members being conformable to the irregularly shaped body in response to the pressure of the variable volume means.



7. An apparatus for determining the capacitance of irregularly shaped bodies comprising a base and a frame support, a condenser plate unit support mounted on said base, an adjustable condenser plate unit support movable relative to said base support and mounted on said frame, a condenser plate unit carried by each of said supports, each condenser plate unit including a confined elastic mass, a variable volume means in pressure transmitting contact with an area of said elastic mass, and a plastic metal condenser plate surface in contact with another area of said elastic mass, said variable volume means being adapted to transmit pressure uniformly throughout said elastic mass and force the plastic metal condenser plate surface into contact with each contour of the irregularly shaped body being tested.

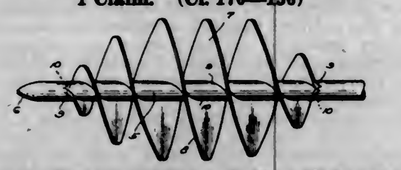
2,283,087
YARN WINDING MECHANISM
Oscar V. Payne, Leicester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application October 13, 1941, Serial No. 414,745
10 Claims. (Cl. 28—55.5)



1. In a spool winding machine to wind spools of different barrel diameters, said machine having two rolls normally in stationary position during the winding operation and a third roll moving away from the two rolls as the winding operation progresses and having a return stroke toward the normal position of the two rolls

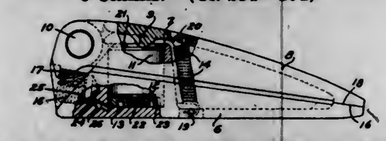
preparatory to another winding operation, positioning mechanism to stop the third roll on the return stroke thereof toward said two rolls comprising an element movable along a given path when said third roll has its return stroke, connections between said element and third roll to stop the latter on its return stroke when said element is stopped along said given path, a fixed support, a plurality of stops carried by said support and movable one at a time into said given path at different points therealong, and means to move any one of said stops into said path in stopping relation relatively to said element and move the other stops out of said path to cause said one stop to arrest motion of the element and stop the third roll on its return stroke toward said two rolls.

2,283,088
SCREW PROPELLER
Gustav Peterson, Malden on Hudson, N. Y.
Application April 24, 1941, Serial No. 390,175
1 Claim. (Cl. 170—156)



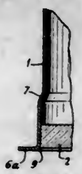
A propeller comprising a shaft, a blade assembly including a pair of intercoiled spiral blades integral with the shaft and coiled oppositely from opposite ends of the assembly, respectively, said blades at their juncture with said shaft extending along the same in diametrically opposite relation, said blades each including three coils, and said blades from one end of the assembly, respectively, gradually increasing in diameter from the shaft to a maximum diameter in the first coil and having the second coil of the same diameter and the third coil gradually decreasing in diameter to the shaft, said blades being perpendicular to the axis of the shaft throughout the coils thereof.

2,283,089
HYDRAULIC WEDGE ASSEMBLY
Edward M. Pfanser, Elm Grove, Wis., assignor to Blackhawk Mfg. Co., Milwaukee, Wis., a corporation of Wisconsin
Application May 29, 1941, Serial No. 395,769
6 Claims. (Cl. 254—104)



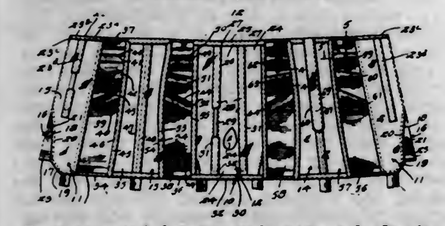
1. A spreader wedge comprising, a pair of wedge shaped elements of approximately the same size and shape pivotally interconnected at their adjacent thicker ends and having co-operable abutments for limiting the relative swinging movement thereof, one of said elements having a transverse cylindrical bore opening toward the other and the other element having a projection extending toward the open end of said bore, a piston movable in said bore and having a smooth outer face slidably abutting said projection, a tension spring disposed approximately parallel to said bore and connecting the medial portions of said elements remote from the connecting pivot to urge said projection against said piston, and flexible conduit means for admitting liquid under pressure to said bore to move said piston outwardly while permitting universal movement of the wedge assembly.

2,283,090
COMPOSITE GLASS AND METAL ENVELOPE
Donnell W. Power, New Providence, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 30, 1941, Serial No. 391,034
5 Claims. (Cl. 250—27.5)



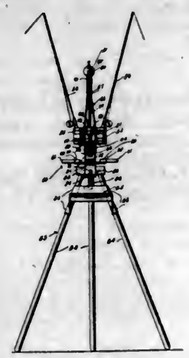
1. An envelope comprising a tubular drawn sheet steel shell, a glass disc fitted in the end of the shell and joined directly along its rim to the inside surface of the shell, a re-inforcing radially extending flange integral with the rim of the shell opposite the outer surface of the disc, said flange being strong enough to resist changes in diameter of the rim and to prevent stripping of the glass-to-metal seal.

2,283,091
FOUNDATION GARMENT OR THE LIKE
Philip H. Robbins, New York, N. Y., assignor to Poirette Corsets, Inc., New York, N. Y.
Application April 16, 1940, Serial No. 329,949
1 Claim. (Cl. 2—37)



In a garment for women's wear, a body structure of girdle-like form comprising a series of spaced sets of spaced superposed combined elastic and resistance members of strap-like form, the upper member of each set being disposed horizontally and the other members of each set being disposed at a downward inclination to the horizontal, a series of spaced fashioned elastic elements of woven fabric each constituting a carrier for a set of members, each of said elastic elements including a loosely woven upper terminal portion, a loosely woven lower terminal portion and a closely woven intermediate portion, means for independently securing the lengthwise edges of each member of a set to the upper portion of the closely woven intermediate portion of a carrier to secure the member across and against a part of the carrier, the upper member of each set being disposed below and in proximity to the loosely woven upper terminal portion of a carrier said body including spaced reinforced inelastic fabric elements interposed between and having their sides secured to the sides of said elastic elements and the ends of said members, each elastic element having its upper and lower ends aligned with the upper and lower ends of a pair of inelastic elements adjacent thereto and certain of said inelastic elements having oppositely disposed side edges of arcuate contour, said side inelastic members being of substantial width and said elastic portions being substantially narrower than said inelastic side members.

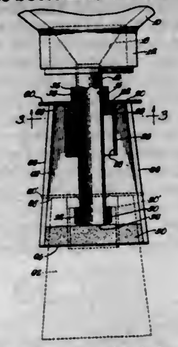
2,283,092
FISHING OUTFIT
Louis Rosen, Jacksonville, Fla.
Application March 13, 1941, Serial No. 383,213
7 Claims. (Cl. 43—15)



1. A device of the character described comprising a standard, a boom pivotally connected to the standard and arranged to swing perpendicularly toward and away from said standard, an arm pivotally connected to the standard and mounted to swing perpendicularly toward and away from the standard, a trigger member pivotally connected to the boom, adjacent its free end and provided with a detent for engaging the free end of the arm when the boom and arm are extending relatively to the standard, said arm being adapted to be attached to a fishing line, said fishing line being extended and trained over the free end of the trigger member, and said trigger member being normally held in an extended position, relatively to the boom, by the arm and being adapted to be actuated by a pull on the line for swinging the trigger member relatively to the boom to release the arm.

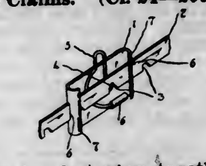
2,283,093
FILLING SPOUT
Robert E. Rosenthal, George L. Sternfield, and Vincent J. Peddle, Chicago, Ill., assignors to Continental Foods, Inc., Chicago, Ill., a corporation of Illinois
Application November 18, 1940, Serial No. 366,150
11 Claims. (Cl. 226—58)

1. A feeding spout device for feeding material into an open container comprising a spout having a passage therethrough for said material and an orifice at the end, a guard around the spout including a portion having a free sliding fit thereon and a skirt, said guard having an initial position and a feeding position, and a stop element on the spout having a shoulder in contact with a portion of the guard at the initial position wherein said skirt is positioned around and below said orifice, said guard having a size smaller than the open end of the container adapted to be surrounded thereby at initial position and shifted together with the container to said feeding position wherein the bottom of the container is spaced



from the orifice and the skirt is moved from its position around and below the orifice.

2,283,094
BUCKLE
Morris Ruskin, Sea Point, Capetown, Cape Province, Union of South Africa
Application February 25, 1941, Serial No. 380,546
In the Union of South Africa May 3, 1940
6 Claims. (Cl. 24—206)

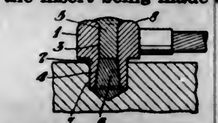


4. A buckle for fastening together two relatively movable parts of an article and adapted to be concealed therein, comprising a rigid frame structure for one of said parts having a flat body portion and flanges at its opposite ends provided with aligned slots therein extending parallel to said frame structure body portion, an elongated relatively flat strip of spring steel for the other of said parts having a series of openings spaced at intervals lengthwise thereof, said flat spring steel strip being arranged for lengthwise movement relative to said frame structure through the slots in the end flanges thereof with the plane of the flat resilient strip disposed parallel and closely adjacent the frame structure, and spring biased means on the frame structure disposed intermediate the latter and the spring steel strip and including a hook portion operable normally to engage one of the openings in said spring steel strip thereby to secure the same against lengthwise movement with respect to the frame structure, said spring biased means being disengageable from the openings in the spring steel strip by effecting a relative separation thereof and said flat spring steel strip having sufficient rigidity crosswise the plane thereof to move lengthwise relative to said frame structure upon effecting a relative separation of the strip and said spring biased means.

2,283,095
RAIL BOND TERMINAL
Ernest J. Sabol, Edgewood, Pa.
Application September 25, 1940, Serial No. 358,363
4 Claims. (Cl. 287—20.3)

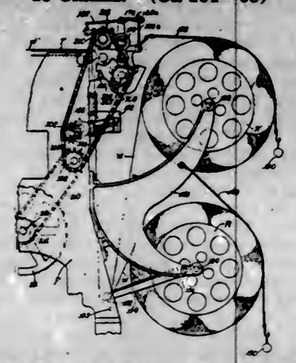
1. A rail bond terminal adapted to be inserted in a bottomed hole in a side of a rail head, the

said terminal comprising a plug having a head and a stud with a bore formed therethrough longitudinally of the stud and head, the bore being cylindrical in the head and suddenly flaring outwardly from the head to the end of the stud, and an insert pin adapted to be slipped into the bore, the said pin being sufficiently long to extend through the bore and to project therefrom sufficiently to more than reach the bottom of the hole in the rail when the stud is inserted therein, the pin being provided with a cylindrical portion fitting the cylindrical portion of the bore and a flaring portion fitting the flaring portion of the bore, both portions of the insert extending beyond the openings of the bore, the cylindrical portion of the insert being made of metal harder



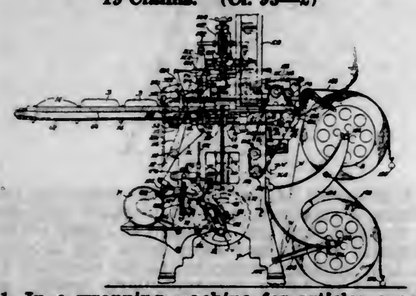
than the flared portion, the said flared portion being sufficiently soft to upset against the underside of the stud when the terminal is driven into the hole, the said stud being sufficiently malleable to become expanded in the hole into a tight fit with the rail under longitudinal compression transmitted thereto by driving impacts applied to the extending hard portion of the pin as the terminal is driven into the rail, the cylindrical portion of the bore and the flaring portion thereof forming a juncture defining a stop for the pin, whereby the head of the plug is spaced sufficiently far from the rail to enable the plug and pin to be driven into tight engagement with the rail while avoiding extrusion of metal from the pin substantially beyond the said head.

2,283,096
WRAPPING PAPER CONTROL MECHANISM
Oscar Sandberg, Defiance, Ohio, assignor to Modern Equipment Corporation, Defiance, Ohio, a corporation of Ohio
Application February 5, 1940, Serial No. 317,369
13 Claims. (Cl. 164—68)



1. In wrapping paper control mechanism, wrapper feed means comprising a pair of feed rolls frictionally engaging a web of wrapping paper to feed the same, cutting means for cutting the wrapping paper into individual wrappers, a source of power, a clutch between said source and said rolls and cutting means, and means for transmitting power from said clutch to said rolls, said transmitting means being adapted to drive said rolls at increased or lessened speed and comprising a drive shaft controlled by said clutch and having a set of pulleys of different diameters thereon, a second shaft, means drivingly connecting said feed rolls with said second shaft, said second shaft having a set of pulleys thereon in alignment with the pulleys on said drive shaft, belts connecting said drive shaft pulleys with said second shaft pulleys, said belts being loose on said pulleys whereby insufficient traction is afforded to transmit power from one set to the other, means for selectively tightening said belts to render them operable to transmit power whereby to drive said second shaft and said rolls at different speeds and comprising belt tightening rollers associated with each of said belts, and means including a photoelectric device responsive to the position of the wrapping paper with respect to said cutting means for selectively engaging the belt tightening rollers with their respective belts to tighten the same.

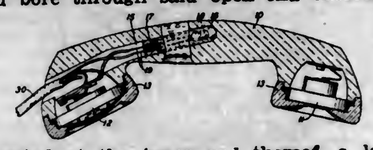
2,283,097
WRAPPING MACHINE
Oscar Sandberg, Defiance, Ohio, assignor to Modern Equipment Corporation, Defiance, Ohio, a corporation of Ohio
Application February 5, 1940, Serial No. 317,370
19 Claims. (Cl. 93—2)



1. In a wrapping machine for articles, mechanism for folding a wrapper about the top and sides of an article and across the edges of a card associated therewith comprising a vertical folding way having side and end folding plates, a reciprocating elevator adapted to engage and elevate the article and card through said way, folding guide members extending above the article on the elevator to engage the wrapper and elevate it with the article through said way and to space the wrapper from the article during folding whereby to form a square edged package regardless of the shape of said article, means for thereafter folding the portions of the end flaps depending below the card to a position beneath it comprising end folder blades, means for supporting each of said end folder blades comprising a rock arm pivoted to the outer end thereof, a roller supporting the inner end thereof and a cam surface on said blade adjacent the inner end thereof and supported on said roller, said cam surface being shaped to swing the blade up under the card and article as the blade is moved longitudinally inward by the rock arm, and means to thereafter fold the side flaps depending below said card to a position beneath the card.

2,283,098
HAND TELEPHONE
Oscar A. Shann, Bayside, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 20, 1939, Serial No. 280,045
1 Claim. (Cl. 179—103)

Telephone apparatus comprising a hand telephone including a handle of translucent material, said handle having therein an elongated bore extending from one end to the central portion thereof, the outer end of said bore being open, telephone instruments mounted at opposite ends of said handle, a signal lamp insertable into said bore through said open end thereof and

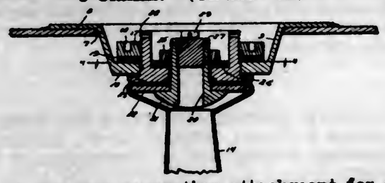


mounted at the inner end thereof, a locking member also insertable in said bore through said open end thereof and fitted in said bore to hold said lamp in position, and a multiconductor cord extending into said handle through said open end of said bore and having its conductors connected to said lamp and said instruments.

2,283,099
PRODUCTION OF REFINED MAGNESIUM AND MAGNESIUM ALLOYS
Georg Schichtel, Leipzig, and Fritz Jaburek, Rademthein, Germany, assignors, by mesne assignments, to The Anglo California National Bank of San Francisco, San Francisco, Calif., a national banking association, as trustee
No Drawing. Application January 17, 1941, Serial No. 374,862. In Germany February 2, 1940
11 Claims. (Cl. 75—67)

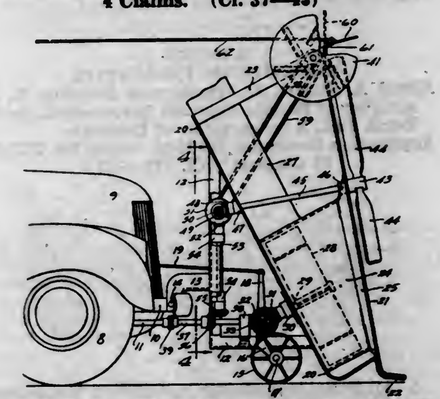
1. The method of purifying magnesium and alloys thereof which comprises treating the impure metallic material with a flux containing a mixture of carnallite and magnesium chloride with a content of from 25 to 40 mol-per cent potassium chloride, and besides a compound which, at the melting or casting temperature, becomes vaporized or decomposed with the liberation of gases, the amount of the said volatile component of the flux being at least sufficient to transport, by means of upward currents produced, substantially the whole bulk of the generated dross to the top of the melt.

2,283,100
PRESSURE REGULATING ATTACHMENT FOR LIQUID CONTAINERS
Harry C. Shores, Maplewood, Mo.
Application February 28, 1941, Serial No. 381,199
3 Claims. (Cl. 225—11)



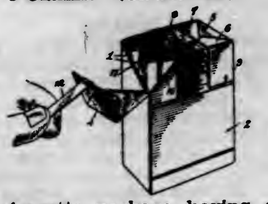
1. A pressure generating attachment for containers comprising an attaching plate attached to the container, said container having an opening and said plate being secured at the edges of the opening and also having an opening, flanges on opposite edges of the opening of the plate, a fitting including a plate abutting the inner surface of said flanges and having a central opening, an externally threaded sleeve rising from the last named plate concentrically of the opening therein, said sleeve projecting outwardly through the opening of the attaching plate, projections rising from the second named plate and engaging an edge of the flanges to prevent rotation of the fitting, an internally and externally threaded tubular member positioned in the opening of the fitting, a flange on the inner end of the tubular member, an inflatable bag in the container and having a filling opening with its edges clamped between said last named flange and the plate of the fitting, nuts threaded respectively on the outer end of the sleeve and tubular member to secure the same in position, said tubular member being adapted for attaching a hose to its outer end for supplying fluid under pressure to the bag for inflating the same and means for closing the outer end of the tubular member when the hose is detached therefrom.

2,283,101
ROTARY SNOWPLOW
Ray Snook, Windom, Minn.
Application March 10, 1941, Serial No. 382,507
4 Claims. (Cl. 37—43)



1. In a snow plow, a supporting frame, an inclined face plate and an inclined back plate secured on said frame, said face plate having laterally spaced pockets with their bottoms closed against said back plate, said pockets having peripheral discharge passages leading to a discharge stack, power driven rotary fan-acting heads working in said pockets, a pair of power driven blade-equipped cutter heads working in front of said face plate and over the upper portions of said pockets, and in which said cutter heads are so set and timed that their blades move through interlapping planes without interfering contact.

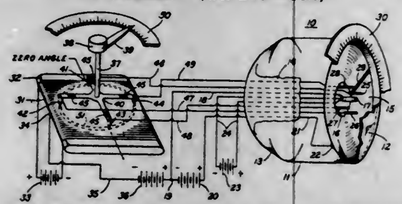
2,283,102
PACKAGE
Constantine S. Stephano, Elkins Park, Pa., assignor to Stephano Brothers, Philadelphia, Pa., a corporation of Pennsylvania
Application September 20, 1939, Serial No. 295,728
3 Claims. (Cl. 229—51)



1. In a cigarette package having connected

side and bottom portions the combination of a top portion comprising a pair of tucks extending partway across the top of the package from opposite sides thereof and a pair of flaps extending inwardly from the other sides of the package in overlapping relation with respect to each other and with respect to the tucks and provided with superimposed slits extending substantially across the respective flaps adjacent the end of one of the tucks, an adhesive strip secured over the central portion of the top, one edge of which is disposed adjacent said slits, and a relatively thin elongated strip of flexible material having greater tensile strength than the material of the tucks secured to the under-surface of the last-mentioned tuck and to the upper portion of the adjacent side of the package and extending upwardly through the said slits in the flap whereby the exposed portion of the strip may be pulled to remove the top portion of the package from the slits to the adjacent end and also the upper portion of the side of the package to which the strip is secured.

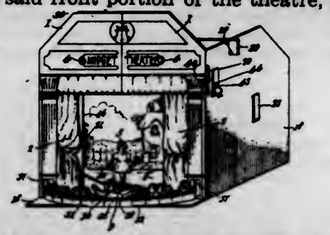
2,283,103
THERMIONIC INDICATOR
Alfred A. Stuart, Jr., Hasbrouck Heights, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application December 30, 1940, Serial No. 372,431
11 Claims. (Cl. 177—351)



1. An indicating circuit including a thermionic device comprising an envelope, an electron-emissive cathode, an annular anode coated with fluorescent material and a plurality of control electrodes spaced between said cathode and said anode and arranged symmetrically about said cathode, an external circuit for energizing said cathode, a source of anode potential, a voltage transmitter having a rotor and a stator, connections between said stator and said control electrodes for impressing voltages on said control electrodes that vary in accordance with a determined law for a revolution of said rotor, a source of negative bias connected to said control electrodes through said stator, said negative bias being of such value with respect to the voltages impressed on said control electrodes that the flow of electrons from said cathode to said anode is restricted to a beam, which beam is rotated through equal angles with said rotor upon the turning of said rotor, to give an indication of the angular movement of said rotor.

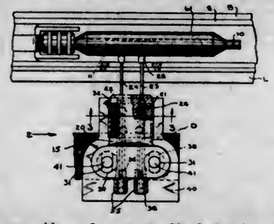
2,283,104
AMUSEMENT DEVICE OR TOY
Arthur John Surman, Philadelphia, Pa.
Application May 21, 1940, Serial No. 336,408
5 Claims. (Cl. 46—13)

1. In a miniature theatre, an enclosure having an open front portion and a floor with an extension forwardly of the front portion, said extension having its forward edge constructed when erected to simulate orchestral figures and having centrally unconnected slits opening through its side edges to permit upward folding of the portion of the extension forwardly of the slits and the rounding of the ends of the upwardly folded part to said front portion of the theatre, means



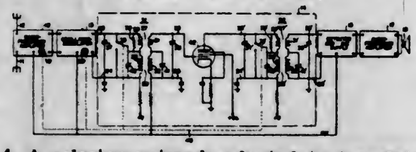
to anchor the ends in the rounded form, a rotary stage in the enclosure with the edge obscured by the upwardly folded portion, and figures on the stage rising above said upwardly folded portion.

2,283,105
DETACHABLE MOUNTING FOR WEFT DETECTORS
Richard G. Turner, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application April 3, 1941, Serial No. 386,612
7 Claims. (Cl. 139—269)



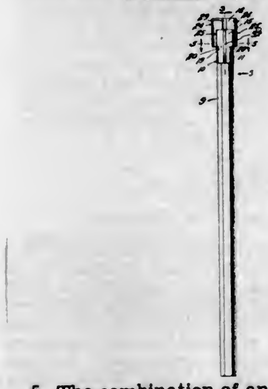
1. In a mounting for a weft detector having a body provided with an aperture extending therethrough, a support for the detector, a plate between the detector and the support, a guide stud on the plate extending through the aperture, means to hold the stud on the support, spring clip means on the plate engaging opposite sides of the detector to hold the latter to the plate and movable to detector releasing position by a motion transverse of the direction in which said aperture extends, and a shoulder on the stud between the detector and plate and held against vertical motion relatively to the plate and detector when the latter is held to the plate by said spring clip means, whereby the stud, detector and plate constitute a unit held together by said spring clip means.

2,283,106
CARRIER-SIGNAL SELECTOR NETWORK
Benjamin F. Tyson, Bayside, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware
Application October 8, 1940, Serial No. 360,249
7 Claims. (Cl. 178—44)



4. A selector network adapted to translate a plurality of carrier signals comprising, a pair of input terminals and a pair of output terminals, a pair of transformers having primary windings permanently connected in series across said input terminals and secondary windings permanently connected in series across said output terminals, means for imparting to each of said transformers a predetermined different carrier-frequency band-pass characteristic for translating a different one of said carrier signals, and a single-pole switch having a switch blade connected to the junction of one of said pairs of series-connected windings and switch contacts individually connected to opposite terminals thereof, whereby either of said one transformer windings may be selectively short-circuited effectively to short-circuit one of said transformers to suppress the transmission between the said input and output terminals of all of said applied carrier signals except the carrier signal which the other of said transformers is adapted to translate.

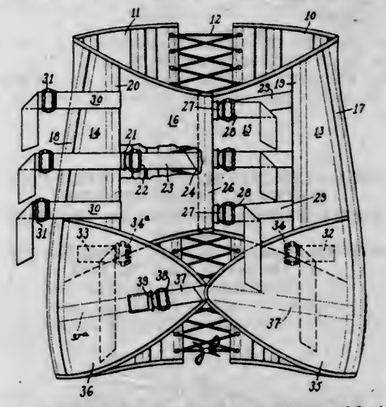
2,283,107
ERASER FOR PENCILS AND HOLDING TIPS THEREFOR
Horace B. Van Dorn, Maplewood, N. J., assignor to Joseph Dixon Crucible Company, Jersey City, N. J., a corporation of New Jersey
Application May 22, 1941, Serial No. 394,586
5 Claims. (Cl. 120—38)



5. The combination of an eraser relatively long and wide and relatively thin, and an eraser holding tip adapted for attachment to one end of a pencil, said eraser holding tip being a unitary structure comprising a tubular inner end adapted for mounting on one end of the pencil and an outer eraser holding end consisting of two walls connected at their inner ends with the outer end of the tubular portion of the tip, said walls being spaced apart to receive the eraser snugly between them and being of less length and width than the eraser, the inner surface of at least one of said walls having an inwardly projecting longitudinally extending rib throughout its length, and said eraser having on the outer surface of one of its sides a longitudinally extending groove adapted to receive the inwardly extending rib on one of the walls of the eraser holding tip.

2,283,108
CONTROLLING OR FITTING GARMENT
Irving R. Versoy, New Haven, Conn., assignor to The Berger Brothers Company, New Haven, Conn., a corporation of Connecticut
Application July 31, 1940, Serial No. 348,773
4 Claims. (Cl. 2—27)

1. A controlling garment having a pair of body sections secured together at their rear edges by laces, a front section secured to the forward edge of each of the body sections and having a free edge extending inwardly therefrom, a strap secured to the free edge of one of said front sections, a buckle adjustably carried by said strap, a member carried on the under side of the other front section with which said buckle is engaged, one of said front sections also having a plurality of vertically spaced straps on the face thereof, secured thereto at points spaced from its edge to extend across the front of the



section, buckles adjustably secured to said straps, the other section having vertically spaced members carried by its free edge with which said buckles are engaged, said front sections terminating above the lower edges of the body portions, a flap connected to and extending inwardly from each of the body portions below the front sections, and adjustable members connecting one flap to the other to exert a pull across the front center line of the garment independently of said front sections and stretch said flaps across the body of the wearer.

2,283,109
BLUING STEEL
Herman L. von Ende, Gary, Ind.
No Drawing. Application February 26, 1940, Serial No. 320,963
3 Claims. (Cl. 148—4)

2. A method of producing steel strip work with a blued finish, comprising cold reducing said work to gage, subsequently continuously passing said work through a bright annealing furnace and bright annealing said work as it passes therethrough, continuously passing said work directly from said furnace through a non-oxidizing cooling chamber and there adjusting its temperature to from 425° to 1100° F., and then continuously passing said strip directly from said chamber into an oxidizing atmosphere.

2,283,110
SAFETY THROWOFF
Carl D. Wagner, Tulsa, Okla.
Application December 18, 1940, Serial No. 370,719
11 Claims. (Cl. 74—593)

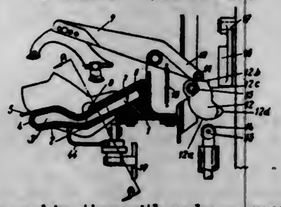
1. A safety throw-off device of the class described, comprising a relatively shiftable member, a relatively fixed member, an elongated connecting element operatively associated with said members, means for operatively connecting said element to either of said members, said last

named means comprising a recess extending transversely completely through said element and key means engageable with said members and adapted to extend completely through said recess, said key being pivotal upon said member



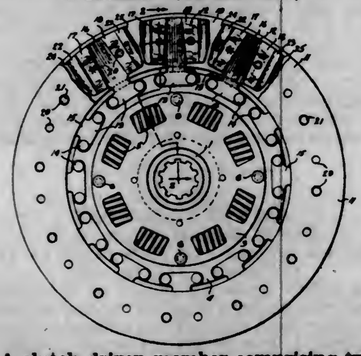
about an axis extending transversely of the element to a position outwardly of the bar, said recess being sufficiently elongated to permit the key to swing out of said recess and about said axis.

2,283,111
SHOE CEMENTING PRESS WITH CONTROLLED PRESS POINTS
August Walther, Frankfort-on-the-Main, Germany
Application January 16, 1941, Serial No. 374,725
In Germany April 26, 1940
6 Claims. (Cl. 12—37)



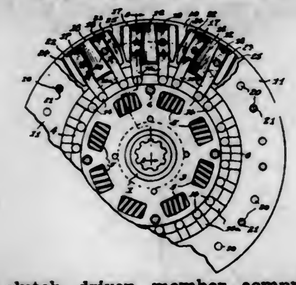
1. The combination with a shoe cementing press having controlled revolving press members with an air pressed cushion, of a press cushion support or bed forming a flat tub shaped bed at the toe and a freely projecting plate at the ankle-joint and heel part of the shoe, the press cushion on the support cooperating with a usual double-armed presser-lever, controlled at the rear lever arm by a controlling device pivoted to the press cushion support and arranged between a known driving-member and the rear lever-arm.

2,283,112
CLUTCH DISK
Ernest E. Wemp, Detroit, Mich.
Application January 7, 1939, Serial No. 249,697
4 Claims. (Cl. 192—107)



1. A clutch driven member comprising two annular friction facing members adapted to be packed between clutch driving members, a body member with its outer peripheral edge disposed within the inner peripheral edges of the facing members, a plurality of structurally separate metal cushion members arranged in an annular array, each cushion member having an inner portion secured to the body member, a circumferentially enlarged outer portion lying between the facings, and twistable spoke-like intermediate connecting means of relatively small dimensions measured circumferentially, the enlarged outer portion being preformed on substantially radial bend lines to provide an angularly disposed central part with circumferentially and axially spaced lands for the facings on opposite sides of the central part to yieldingly space the facings, said lands extending substantially across the width of the facings, and means for securing the facings to the respective lands.

2,283,113
CLUTCH DISK
Ernest E. Wemp, Detroit, Mich.
Original application January 7, 1939, Serial No. 249,697. Divided and this application May 10, 1941, Serial No. 392,849
5 Claims. (Cl. 192—107)



1. A clutch driven member comprising two annular friction facing members adapted to be packed between clutch driving members, a body member with its outer peripheral edge disposed within the inner peripheral edges of the facing members, a plurality of metal cushion members arranged in an annular array, each cushion member having an enlarged outer portion lying between the facings, the outer portion being preformed to yieldably space the facings and having an intermediate angularly disposed part extending diagonally across the space between the facings, lands for the facings on opposite sides of the intermediate part and end portions extending in a direction diagonally of the space between the facings, inwardly disposed projections extending substantially from the said lands and secured to the body member, and means securing the respective facings to the lands.

2,283,114
BOWLING ALLEY ACCESSORY
Rolland D. Wesley, Norton, Kans.
Application July 23, 1940, Serial No. 347,011
3 Claims. (Cl. 88—74)

1. A training device for bowlers including a portable frame proportioned to extend across and above an alley, superposed mirrors carried by the frame and cooperating to conceal from a player at one end of an alley the pins located at the other end of the alley, said mirrors cooperating to expose on either mirror to the player while in ball delivering position an image of the pins, there being a clearance beneath the

mirrors for the free passage of a ball along the alley, said mirrors being mounted for angular

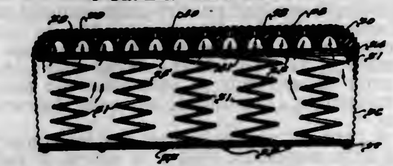


and sliding adjustment relative to the frame and to each other, and means for holding the mirrors against movement following adjustment.

2,283,115
BREAKFAST CEREAL
Lawrence M. Yingling, Gibsonia, Pa.
No Drawing. Application January 11, 1940, Serial No. 313,439
3 Claims. (Cl. 99—83)

3. A method of producing a cereal breakfast food containing processed dried figs, ground screened whole wheat, wheat farina, wheat germ, sugar and salt, which includes cutting the dried figs into small pieces, baking the pieces for a period of about thirty minutes at a temperature of about three hundred and fifty degrees Fahrenheit, when they attain a dark brown color, crystallizing the baked figs at a temperature of about sixty-five degrees Fahrenheit, and grinding the crystallized figs.

2,283,116
SEAT CUSHION
Leonard A. Young, Detroit, Mich.
Application December 4, 1939, Serial No. 307,357
5 Claims. (Cl. 155—179)



1. In a seat cushion structure including a spring base member and a compressible rubber pad adapted to be secured thereto, in which said pad is provided with a plurality of air cells and ducts communicating between said cells and the top surface of said pad, means for stabilizing the bottom portion of said pad and increasing the resiliency thereof, said means comprising resilient wire strips molded in said pad adjacent the bottom thereof and having their end portions connected to a marginal frame member, and means for securing said marginal frame member to the top portion of said spring base member.

2,283,117
ELECTRIC CABLE FOR DEEP WELL PUMPS
Armais Arutunoff, Bartlesville, Okla., assignor to Reda Pump Company, Bartlesville, Okla., a corporation of Delaware
Application January 22, 1938, Serial No. 186,391
2 Claims. (Cl. 103—87)

1. In a submergible deep well pump motor assembly adapted to be lowered into an oil well casing, an electric motor for driving the deep well pump, an electric cable for conducting electric energy to said electric motor, said cable comprising a section of circular cross sectional shape to a point just above the pump motor assembly,



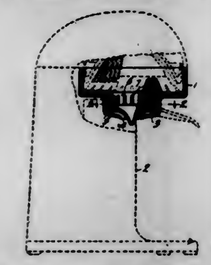
and a flat cable connected with said cable of circular cross sectional shape extending past the pump assembly through spaces of relatively small clearance.

2,283,118
DEEP WELL PUMP ASSEMBLY
Armais Arutunoff, Bartlesville, Okla., assignor to Reda Pump Company, Bartlesville, Okla., a corporation of Delaware
Application May 22, 1940, Serial No. 336,573
7 Claims. (Cl. 103—87)



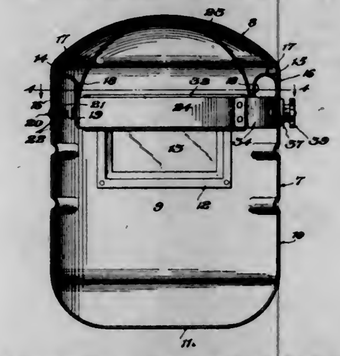
2. In a deep well motor pump assembly having an electric motor and a pump driven thereby, an oil reservoir adapted to contain a lubricating oil, means providing communication between said oil reservoir and said motor, the arrangement being such that the motor heat will create convection currents in the lubricating fluids of the motor and cause the same to circulate through the said reservoir, a heat exchange tube in said oil reservoir, and means for passing the fluid being pumped through said heat exchange tube to cool the oil in said oil reservoir, said heat exchange tube being provided with means to accommodate expansion thereof due to temperature changes.

2,283,119
FRUIT JUICE EXTRACTOR
Orville E. Kuhlman and Joseph M. Majewski, Jr., Kansas City, Mo., assignors to Foster L. Talge, operating as Rival Manufacturing Company, Kansas City, Mo.
Original application January 29, 1940, Serial No. 316,156. Divided and this application January 8, 1941, Serial No. 373,624
1 Claim. (Cl. 210—155)



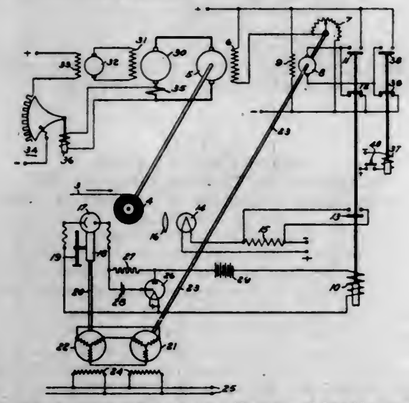
In a juice extractor, a juice receiving cup formed with a sump, projections in said sump, a cup-shaped strainer positioned in said sump, said strainer being formed with slots and means for moving said strainer to predetermined positions, the said projections being arranged to close a predetermined portion of the slots in each of the said positions to vary the effective openings of said slots.

2,283,120
WELDER'S SHIELD
Robert L. Malcom, Chicago, Ill., assignor to Chicago Eye Shield Company, a corporation of Illinois
Application December 14, 1940, Serial No. 370,205
10 Claims. (Cl. 2—8)



10. A protector of the class described comprising a shield body having side wings, a headband between said wings and pivotally connected at one side to one of them, manually operable means mounted on the outside of said other of said wings and including a spindle and a pinion thereon inside of said latter wing, said headband having lapping inner and outer end parts movable circumferentially with respect to each other adjacent to said latter wing and one of them having a longitudinal slot, members on the other of said end parts and spacers on said members between said end parts, said members and spacers maintaining said parts in proper relation, a link connected with said outer headband part, a rack on said link adjacent to said latter wing cooperable with said pinion, and a member pivotally mounted on said spindle and connected with one of the lapping parts of said headband.

2,283,121
LIGHT RESPONSIVE CONTROL SYSTEM
Mathias Michel, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application July 31, 1940, Serial No. 348,716
14 Claims. (Cl. 242—75)



1. In a control system, the combination of a source of light, a light sensitive electrical device, an electrical translating device operatively responsive to operation of said light sensitive device, means for varying the amount of light impinging on said light sensitive device, means comprising control circuits whereby said translating device is controlled in response to operation of said varying means, and a follow-up means operatively responsive to operation of said translating device for relative positioning of said light sensitive device, said source and said varying means, with a means operative in response to operation of said translating device and operative prior to operation of said follow-up means for anticipating operation of said follow-up means.

9. A light responsive control system comprising a light responsive device, a source of light, a follow-up system for repositioning said device, and means for anticipating the effect of said follow-up system, said means comprising means for varying the emanation of light from said source prior to operation of said follow-up system.

2,283,122
NUT DEVICE
Howard J. Murphy, Greenwood, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application April 9, 1940, Serial No. 328,723
5 Claims. (Cl. 85—32)



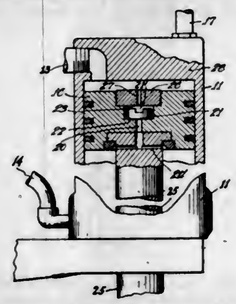
1. A one-piece nut device having a base, said base having integral bolt-engaging means, leg portions extending from said base in angular relation to the plane thereof and having means for engaging one side of a support, and yieldable attaching portions extending from said base having means for engaging an opposite side of said support, said attaching portions constructed and arranged for snapping through an aperture in a support on movement of said base through said aperture to hold the nut in place prior to a bolt being engaged therewith.

2,283,123
CAP BRUSH FOR LIQUID-CONTAINING BOTTLES
James L. Osborne, Lyndhurst, N. J., assignor to Revlon Products Corporation, New York, N. Y., a corporation of New York
Application July 19, 1941, Serial No. 403,160
1 Claim. (Cl. 15—140.4)



In a cap brush for liquid-containing bottles, a brush shank formed by rolling a sheet blank into marginally overlapped formation throughout its length, one margin being provided with spaced transversely extending slots, and the second margin being provided with colinear spaced transversely extending slots co-linear with the first named slots, the slots at each margin providing a lip between them, and the lips being reversely bent, each lip having a lapped relationship to the margin of the shank which it engages opposite to that of the margin carrying the lip.

2,283,124
PISTON OPERATED PRESS AND THE LIKE
Victor W. Peterson and Otto J. Maha, Chicago, Ill., assignors to Hannifin Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application August 19, 1937, Serial No. 159,874
3 Claims. (Cl. 121—38)



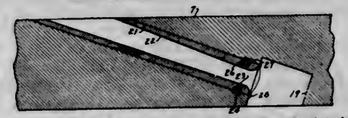
1. In apparatus of the character described, the combination comprising a work cylinder having a double-acting piston and plunger, control mechanism for opening the head end of said cylinder to discharge and for delivering pressure fluid to the plunger end to move the piston on its return stroke, a by-pass for passing fluid from the plunger end of said cylinder to the head end thereof on the return stroke to increase the volume of fluid to be discharged from said head end and thereby retard the return movement of said piston, said by-pass being restricted to develop pressure on the plunger face of said piston sufficient to move said piston, and a check valve in said by-pass to prevent travel of fluid from said head end to said plunger end.

2,283,125
LOCKING SNAP FASTENER
Leonard A. Powell, Hyde Park, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application January 13, 1939, Serial No. 250,722
1 Claim. (Cl. 85—5)



A stud member for snap fastener engagement with a cooperating socket member through an aperture thereof, said stud member having a base, a yieldable shank extending from said base in the form of a pair of legs arched in cross-section for passage into the aperture of the socket member and socket-engaging projections on said shank diverging relative to each other in a direction toward said base and presenting shoulders for locking engagement with said socket, and the edges of said arched portions of said legs arranged to abut during passage through the aperture in the socket and remaining in abutment to assist in positive locking of the stud in the socket.

2,283,126
TURBINE NOZZLE
James L. Ray, Elm Grove, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application August 18, 1939, Serial No. 290,767
4 Claims. (Cl. 253—78)

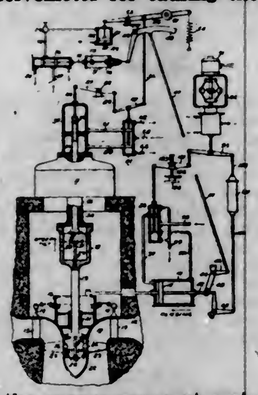


1. A nozzle structure for elastic fluid turbines including means defining a nozzle chamber having a passage adapted to conduct working fluid from said chamber to a row of moving blades, said passage being of greater axial length than the distance between the chamber end of said passage and the opposed wall of said chamber and said opposed wall being devoid of any opening which would permit a nozzle passage liner having a greater axial length than the distance between the chamber end of said passage and the said opposed wall from being inserted into the said nozzle passage from the chamber end thereof, a nozzle passage liner of greater axial length than the distance between the chamber end of said passage and the said opposed wall thereby necessitating the insertion of said liner into the said passage from the discharge end thereof, said liner having a preformed rounded inlet portion adapted to terminate substantially flush with the inner surface of said nozzle chamber when said liner is correctly positioned within said passage, and means operating to correctly position and maintain said liner within said passage comprising a groove formed in contiguous portions of said passage and liner to extend transversely with respect to the longitudinal axis of said passage, and a compressible resilient member disposed within said groove.

2,283,127
HYDRAULIC TURBINE GOVERNOR
William J. Rheingans, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application March 3, 1941, Serial No. 381,528
12 Claims. (Cl. 253—143)

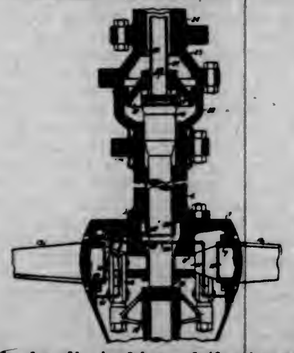
1. In a control system for a prime mover hav-

ing a gate controlling the flow of fluid pressure thereto and having a runner with adjustable vanes, means for operating the gate responsive to the speed of the prime mover, means for adjusting the runner vanes responsive to actuation of said gate operating means, a fluid pressure operated servomotor for causing the temporary



setting of the runner vanes at a steep angle, a valve actuated by said gate operating means for controlling the flow of pressure to said servomotor, and adjustable means actuated by said gate operating means for controlling said valve to vary the moment in the cycle of said gate operating means of actuation of said servomotor.

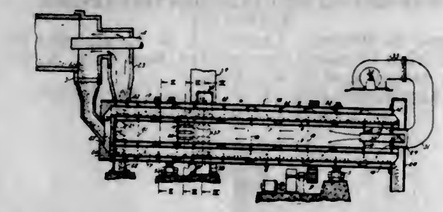
2,283,128
TURBINE LUBRICATION
Joseph J. Ring, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application June 13, 1940, Serial No. 340,254
4 Claims. (Cl. 253—117)



1. In a hydraulic turbine of the type having vanes adjustably supported in bearings, a servomotor for adjusting said vanes, and a fluid pressure operated pump for supplying lubricant to the bearings of said vanes, the fluid pressure for operating said pump being supplied thereto from and causing operation of said pump prior to operation of said servomotor.

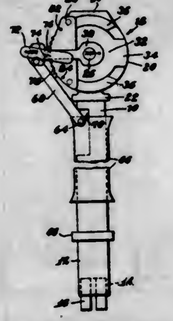
2,283,129
ROTARY CLINKER COOLER
Alexander J. Roubal, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application November 25, 1940, Serial No. 367,921
4 Claims. (Cl. 263—32)

1. In combination with a furnace, means for conveying and cooling the hot material discharged from said furnace comprising an elongated drum, means dividing the interior of said drum into separate, non-communicating precooling and final cooling chambers, a plurality of material conveying conduits extending through said dividing means and through said precooling and said final cooling chambers, an air tube extending through said final cooling chamber, through said dividing means, and into said precooling



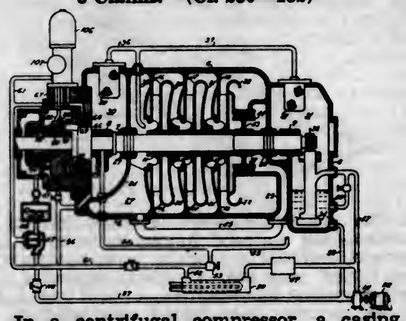
chamber, fluid conveying means operatively connecting said precooling chamber with the combustion space of said furnace, and means including said air tube operative to flow a quantity of combustion supporting cooling medium commensurate with the combustion requirements of said furnace through said precooling chamber and to flow a quantity of cooling air sufficient to further cool said material to a predetermined degree through said final cooling chamber.

2,283,130
COUNTING HAND STAMP
John Edward Sadler, Richmond, Va., assignor to The Duplex Envelope Company, Inc., Richmond, Va., a corporation of Virginia
Application October 15, 1940, Serial No. 361,234
1 Claim. (Cl. 235—129)



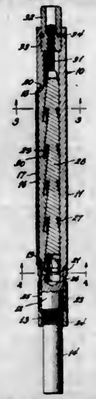
A registering hand stamp comprising a stamping die, an elongated stem projecting from said die opposite the stamping face thereof and substantially normal thereto, a counting register fixed to the opposite end of said stem, a sleeve on said stem having a limited sliding movement thereon between said register and said die and forming a handle for said stamper, link means operatively connecting said register to said sleeve for actuation of said register on predetermined reciprocal sliding movement of said sleeve along said stem and resilient means for yieldably resisting depression of said sleeve relative to said die toward the lower limit of said predetermined sliding movement and for returning said sleeve to the upper limit of said predetermined sliding movement on release of pressure from said sleeve.

2,283,131
CENTRIFUGAL BLOWER
Melvin C. Shaw, Wauwatosa, and Gustaf L. Kollberg, Milwaukee, Wis., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application July 17, 1940, Serial No. 345,902
3 Claims. (Cl. 230—132)



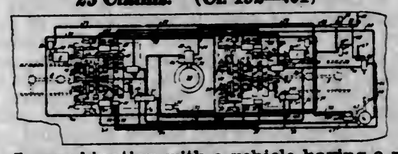
1. In a centrifugal compressor, a casing, a shaft rotatably supported within said casing, partitions extending interiorly and substantially across said casing inwardly of the ends thereof and substantially sealed on said shaft, one of the spaces defined by said partitions and the ends of said casing having said shaft extending therein and the other of the spaces forming an oil reservoir, an aspirating pipe extending into and in the direction of flow of fluid through and terminating in the inlet into said casing, and pipes connecting the spaces with the first said pipe, all of said pipes cooperating to reduce the pressure in the spaces below the inlet pressure.

2,283,132
HONE
Howard G. Wommer, Millersburg, Pa., assignor to Keystone Reamer & Tool Company, Millersburg, Pa., a corporation of Pennsylvania
Application September 19, 1940, Serial No. 357,474
2 Claims. (Cl. 51—184.3)



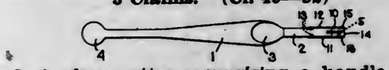
1. In a honing tool of the character described, a unitary cylindrical body having a plurality of longitudinal, continuous passageways; abrasive holders mounted in said passageways; means for radially adjusting said holders including an axially mounted, one-piece expander member in said body having a screw threaded stem projecting through one end of the body; coacting means including a continuous series of stepped, inclined surfaces on said expander member and said holders to increase the effective diameter of said holders when the expander member is moved in one direction; means on the body cooperating with the ends of said holders normally biased to decrease the effective diameter of said holders; and a nut on said stem removably mounted within the body projecting axially through one end thereof and operable from outside the body connected positively to move the expander means longitudinally in either direction.

2,283,133
VEHICLE CONTROL SYSTEM
Robert C. Allen, Wauwatosa, and Clarence E. Kenney, West Allis, Wis., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application January 12, 1940, Serial No. 313,582
25 Claims. (Cl. 192—.01)



1. In combination with a vehicle having a plurality of prime movers each connected with a driving element through power transmitting mechanism including forward and reverse clutches for propelling the vehicle in either direction, clutch shifting means operable to engage either all of the forward clutches or all of the reverse clutches to render the prime movers operable simultaneously to effect either a forward or a rearward movement of the vehicle, and means controlling the actuation of said shifting means and operatively associated with each of said prime movers so that an operating movement of any one of said prime movers prevents an actuation of the said shifting means.

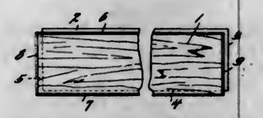
2,283,134
GLASS CUTTER
Richard C. Barrett, Bristol, Conn., assignor of one-half to Robert W. Barrett, Cambridge, Mass.
Application December 14, 1939, Serial No. 309,122
3 Claims. (Cl. 49—52)



3. A glass cutter comprising a handle and a narrow head having parallel sides and terminating in a bifurcated acute-angled end, a cutter disk rotatably mounted in said bifurcated end with its periphery projecting therebeyond, a guard member for protecting said cutter comprising a semi-cylindrical hood of thin resilient sheet metal normally fitting over said cutter disk and the end of said head and having integral sides partially severed from the cylindrical portion of the hood to provide a flexible arcuate section adapted to snap over the disk and resilient parallel arms integral with and extending from the sides of said hood frictionally engaging the flat sides of said head, detachable means pivotally connecting said arms to said head at such distance from the end of said head as will enable a flat side of the head to be directed along a suitable guide without engagement of the guard with the guide, and an oil-saturated lubricating pad concentric with and fitted within the cylindrical portion of said hood normally embedding the surfaces of

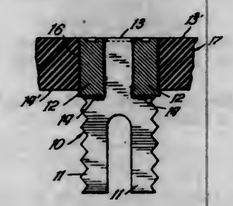
the cutter disk which project beyond the end of said head and providing a cushion between the flexible arcuate portion of the hood and the cutter disk.

2,283,135
WOOD FLOORING
Robert G. Bruce, Memphis, Tenn., assignor to E. L. Bruce Company, a corporation of Delaware
Application October 16, 1939, Serial No. 299,742
3 Claims. (Cl. 20—3)



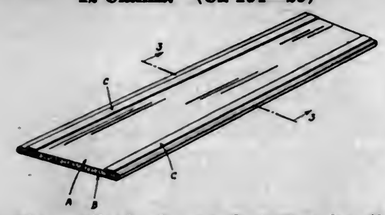
1. A floor panel formed from a plurality of straight strips of wood in prolongation of each other, each of said strips being of uniform width, with the grain of the wood running in the same plane as the face of the strip, the said strips being united along their longitudinal edges by tongue and groove joints and along their transverse edges by tongue and groove joints and held down in position by blind nailing through the longitudinal tongue side, V shaped grooves between the longitudinal and transverse abutting edges of the strips respectively and formed by a bevel along the entire length and width of the face edges of the strip, the width of the strips being intermediate the width of strip and plank flooring and of the order of about 3¼ inches.

2,283,136
TERMINAL STRIP
William L. Dunn, Chicago, Ill., assignor to Belmont Radio Corporation, Chicago, Ill., a corporation of Illinois
Application September 2, 1941, Serial No. 409,217
3 Claims. (Cl. 173—324)



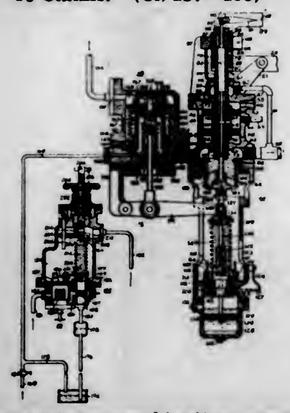
1. In combination with an insulating member having a pair of parallel faces and an aperture therein extending between said faces, a lug having a portion extending in a single plane entirely longitudinally of such lug with a soldering part at one end and a free edge at the other end, said lug having a pair of projections at such other end extending longitudinally on said portion substantially at right angles to said portion and each projection having a free shoulder at each end thereof with one pair of said shoulders lying in a plane with said free edge to form a continuous U-shaped edge for said lug at that end, with said projections positioned substantially entirely within said insulating member aperture, and with said U-shaped edge and the other pair of free shoulders spread outwardly in frictional fastening engagement with corresponding edges of the aperture at the two faces of the insulating member to rigidly secure said lug thereto.

2,283,137
METHOD OF AND APPARATUS FOR MAKING ABSORBENT PADS
Harry A. Fine, Flushing, N. Y., assignor to I. B. Kleinert Rubber Company, New York, N. Y., a corporation of New York
Application October 15, 1938, Serial No. 235,200
12 Claims. (Cl. 154—29)



9. The method of manufacturing lengths of absorbent-pad material having a layer of soft absorbent material, a covering layer having portions folded over said absorbent material and strips extending longitudinally of said pad material for securing said folded over portions to said absorbent layer, which method comprises continuously advancing said layers and associating said layers in superposed relation during the travel thereof, folding marginal edge portions of said covering layer over marginal edge portions of said absorbent layer while said layers travel as a unit, and simultaneously feeding said strips to positions adjacent opposite side edges, respectively, of said layers and adhesively uniting said strips progressively with said absorbent layer and with said folded over portions of said covering layer in said positions adjacent opposite sides, respectively, of said layers.

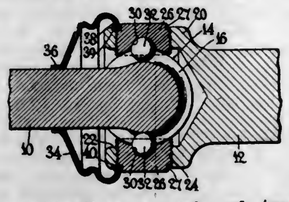
2,283,138
TURBINE REGULATION AND REGULATING APPARATUS
John R. Hagemann, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application September 19, 1938, Serial No. 230,577
15 Claims. (Cl. 137—158)



3. In a regulator combination comprising a pressure responsive device and a power operator responsive to and movable an amount proportional to the movement of the pressure responsive device, means for rendering the operator non-responsive to movements of the pressure responsive device, and means indicating the nature of the adjustment necessary to reestablish the relation between the pressure responsive device and the operator which existed at the time the operator was rendered non-responsive and the reestablishment of the said relation.

8. In combination with a turbine regulating system including a motive fluid control device, separate regulators each including a movable element adapted to be responsive to a different condition which varies in accordance with changes in turbine load, connections rendering said elements severally responsive to said different conditions, and actuating means interconnecting said elements and said device and rendering the movements of said elements severally effective to actuate said device, means for rendering immovable a portion of said actuating means which is normally responsive to the movement of one of said elements while maintaining said one element responsive to its said varying condition, and means for adjusting the position of said one element, said adjusting means being operative, when said portion of the actuating means is rendered immovable, to move the said one element relative to said portion of the actuating means and to a position such that the said portion of the actuating means can be rendered responsive to the movements of the said one element without simultaneously effecting a movement of the said device.

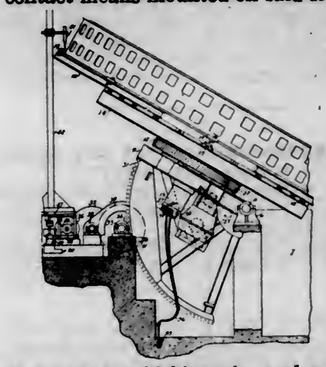
2,283,139
CONTROL MECHANISM
Marvin C. Herget, Williamsville, N. Y., assignor to Bell Aircraft Corporation, Buffalo, N. Y.
Application September 5, 1941, Serial No. 409,695
8 Claims. (Cl. 64—7)



1. In combination, a pair of transmission shafts arranged in end-to-end relation, one of said shafts having its end portion ball-shaped and grooved peripherally thereof, the other of said shafts having its end portion socket-shaped to substantially enclose said ball-shaped shaft portion, said socket-shaped shaft portion being provided with a plurality of bearing blocks inserted therewithin and spaced circumferentially thereof for bearing contact upon said ball-shaped portion, one of said bearing blocks having a key member extending therefrom for engagement with the grooved portion of said ball-shaped shaft portion to fix said shaft members against relative axial rotation, said bearing blocks being adjustable upon said shaft socket portion for adjusted bearing connection relative to said ball-shaped shaft portion.

2,283,140
WELDING WORK POSITIONER
George F. Johnston, Elm Grove, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application February 28, 1941, Serial No. 381,016
1 Claim. (Cl. 219—17)

In a device for positioning a structure to be welded, a horizontal axle, a frame mounted on said axle for movement thereabout, power driven means for tilting said frame about said axle, an electrically conductive king-pin rotatably mounted on said frame, a table mounted in electrically conductive relation on said king-pin, power driven means for rotating said table in either direction and to any extent, current carrying contact means mounted on said frame and



slidably engaging said king-pin, and an electrically conductive cable connecting said contact means with ground whereby substantially the entire welding current passes to ground directly through the structure to be welded, said table, said king-pin, said contact means and said cable.

2,283,141
TREATMENT OF TEXTILE FABRICS
Hans O. Kauffmann and Robert L. McEwen, Buffalo, N. Y., assignors to Buffalo Electro-Chemical Company, Inc., Tonawanda, N. Y.
No Drawing. Application June 29, 1939, Serial No. 281,816
4 Claims. (Cl. 8—111)

1. The continuous method of processing gray goods composed of fibers of vegetable origin which comprises impregnating the gray goods with sufficient of an acid aqueous solution to dampen the same, heating the dampened impregnated goods with steam, then impregnating the goods with sufficient of an alkaline peroxide solution to dampen the same, steaming the so impregnated goods to heat the same and permitting them to bleach in the heated condition.

2,283,142
ISOMERIZATION OF NORMAL BUTANE
Vladimir Ipatieff and Herman Pines, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application September 30, 1936, Serial No. 103,283
11 Claims. (Cl. 260—676)

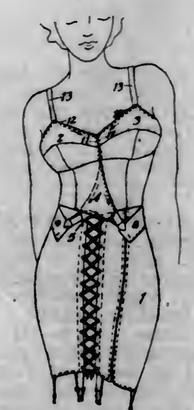
1. A process for producing isobutane which comprises subjecting normal butane, in the substantial absence of polymerizable olefins, to the action of a metallic halide catalyst of the Friedel-Crafts type and a relatively small amount of a hydrogen halide, under conditions such that isomerization of normal butane constitutes the principal reaction in the process, whereby to convert a major portion of the normal butane into isobutane.

2,283,143
ISOMERIZATION OF NORMAL BUTANE
Vladimir N. Ipatieff and Herman Pines, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application April 18, 1940, Serial No. 330,314
9 Claims. (Cl. 260—676)

1. A continuous process for producing high

yields of isobutane from normal butane which comprises adding hydrogen chloride to the normal butane, passing the resultant mixture through a bed of relatively inert carrier material containing aluminum chloride under conditions such that isomerization of normal butane constitutes the principal reaction in the precess, and separating the resultant isobutane from the reaction mixture discharging from the catalyst bed.

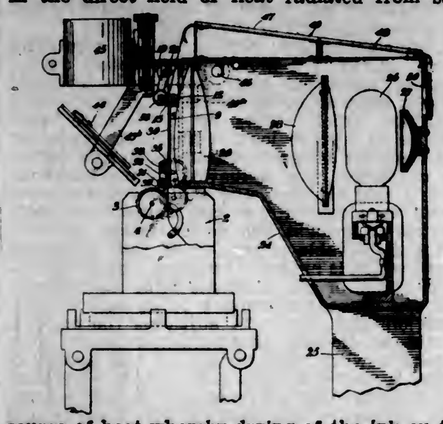
2,283,144
COMBINATION BRASSIÈRE AND FOUNDATION GARMENT
Minna R. Schubert, Saginaw, Mich., assignor to Le Monde Corset Company, Saginaw, Mich., a corporation of Michigan
Application February 4, 1939, Serial No. 254,646
2 Claims. (Cl. 2—39)



1. A foundation garment comprising a girdle, a pair of wings secured one at each side of the girdle, arranged to overlap and be detachably fastened to the girdle on opposite sides of its mid-line, said wings shaped and positioned when fastened to overlie the upper edge of the top of the girdle and be tensioned laterally and downward to restrain the flesh of the wearer thereabove, their upper edges lying below the breasts of the wearer, an inelastic band adapted to resist downward tension, connecting and secured at its ends to the opposite upper sides of the girdle, and positioned and formed to lie above the breasts of the wearer, and a narrow substantially vertical inelastic tension-sustaining member connecting said band and the upper edges of said wings at or adjacent the front center line of said garment.

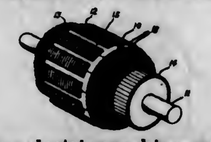
2,283,145
PROJECTION SYSTEM
Frank E. Weller, Bloomfield, N. J., assignor to Trans-Lux Corporation, a corporation of Delaware
Application March 1, 1939, Serial No. 432,328
24 Claims. (Cl. 88—24)

7. In combination, means for printing characters on a tape with ink, means forming a projection aperture with respect to and by which said tape is moved, a source of heat, and a support traversed by said tape after passage beyond said projection aperture, said support being in the direct field of heat radiated from said



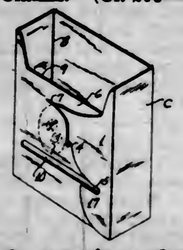
source of heat whereby drying of the ink on the tape is facilitated.

2,283,146
DYNAMOELECTRIC MACHINE
George Zoller, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application January 31, 1941, Serial No. 376,793
9 Claims. (Cl. 171—206)



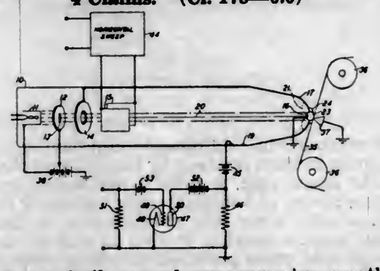
1. A dynamo-electric machine rotatable member having a core with winding slots formed therein, a winding in said slots, and means including slot wedges extending into said slots over said winding and having transversely extending elements adjacent an end thereof arranged in substantially abutting relationship for sealing the adjacent ends of said slots.

2,283,147
COMBINED CIGARETTE PACKAGE WRAPPER AND MATCH PACKAGE HOLDER
Paul Hutchinson, St. Louis, Mo.
Application July 20, 1938, Serial No. 220,285
2 Claims. (Cl. 206—48)



1. A holder for a package of cigarettes and a book of matches comprising an elongated blank having end portions interlocked to form a rectangular sleeve of a size to embrace and hold a package of cigarettes, one end portion of said blank forming a wall of said sleeve, the other end portion of said blank forming a flap, said flap having a tongue and said wall having a co-operating slit to form said interlock between the ends of the blank, said wall having a slot therein of sufficient length to permit the passage of the cover of a match book through said wall, and said slot being so located relative to said interlock that when the cover of a match book is threaded through said slot the said interlock will be disposed between the matches and the cover of the match book, whereby the match book embraces and protects said interlock and assists in maintaining the said interlock.

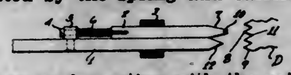
2,283,148
MODULATION OF CATHODE RAY DEVICES
Edmond Bruce, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 14, 1941, Serial No. 378,883
4 Claims. (Cl. 178—6.6)



1. In facsimile reproducer apparatus, a cathode ray device comprising a closed insulating vessel, an array of target elements within said vessel, means for projecting a beam of electrons upon said target elements in succession, an external electrode, an electrosensitive web-like element in contact with said external electrode, and conductors extending through the wall of said vessel from said target elements respectively and having their exterior terminals aligned with each other and with said external electrode and spaced from the latter to form a gap therebetween for receiving said web-like element in electrical contact with said external electrode and said conductors, a conductive circuit connection from said target elements to said beam projecting means including in series said external electrode, an area of said web-like element and a source of voltage, said source maintaining said target elements at a higher potential than said beam-projecting means and such that secondary electrons are emitted by said target elements under impact of said beam, an auxiliary electrode near said target elements, a source of variable electromotive force connected to said auxiliary electrode, and means for causing said source of variable electromotive force to vary between a value which causes secondary electrons from said target elements to flow to said auxiliary electrode in sufficient amount to prevent current flow through said web-like element and a value which permits substantial current to flow from said target elements through said conductive connection and said web-like element.

2,283,149
LOCATING DEVICE FOR USE WITH RECORDING SCALES
Lowell F. Munson, St. Paul, Minn., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application August 1, 1940, Serial No. 349,121
5 Claims. (Cl. 265—5)

1. In a setting mechanism for recording scales, a floating locating disc having a notched periphery, a pair of adjacent parallel fingers reciprocally mounted and endwise presented toward the locating disc, the fingers having edge portions adapted to coact with the notches on the disc for purposes of disc alignment, a spring carried by an extension of one of said fingers, and a stop abutted by the spring and carried by the



other finger, and coacting with the said extension to limit the movement of the first said finger relative to said other finger under the influence of the spring and in a direction toward the locating disc, the extension and stop being adapted to provide adjustably variable end points of relative finger movement when the fingers are free of the disc.

2,283,150
PROCESS OF PRODUCING OXIMES
Paul Schlack, Berlin-Treptow, Germany, assignor, by mesne assignments, to E. I. du Pont de Nemours and Company, Wilmington, Del.
No Drawing. Application November 27, 1939, Serial No. 306,431. In Germany November 28, 1938
6 Claims. (Cl. 260—566)

1. The process of producing cyclic ketoximes which comprises mixing a cycloalkanone with an aqueous solution of an inorganic salt of hydroxylamine, and neutralizing the liberated acid with a compound selected from the class of ammonia and aliphatic amines, said process being characterized in that it is carried out at a temperature below 25° C.

2,283,151
SPRING FASTENING DEVICE
John H. Van Uum, Lakewood, Ohio
Application May 14, 1941, Serial No. 393,425
5 Claims. (Cl. 24—73)



1. A spring clip retaining device formed of a single strip of spring metal for securing a hollow member to an apertured support and comprising a laterally extending relatively rigid base provided with upturned head portions at its edges, a depending shank portion between the said upturned head portions and joining the said base portion at a position in spaced relation to one of said upturned portions, said shank portion extending away from the plane of the base and being in the form of a loop which is compressible and expansible for yieldable engagement with the aperture in the said support for securing the hollow member to the support, each of said upturned head portions extending transversely to the plane of the shank and lying generally in a plane normal to the plane of the shank, said upturned head portions having fingers which are resilient for flexing independently of the shank toward and away from the shank and extending outwardly beyond lateral limits of the said base portion.

2,283,152
METHOD OF CASTING METAL AND CAST ARTICLE
Walter F. Wright, Wyoming, Ohio
Application July 31, 1940, Serial No. 348,753
4 Claims. (Cl. 22—65)

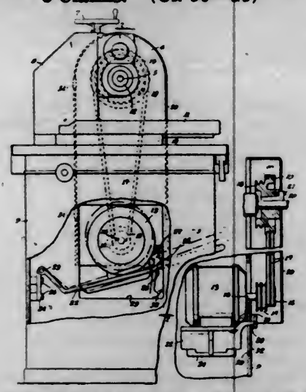
1. The method of casting steel to provide an

article of the type having a hub, a rim, and a connection portion, comprising; the steps of, providing a mold in which the cross-sectional area of the mold cavity increases from the rim portion to the hub portion, providing a riser cavity at the center of the mold to feed the central cavity



thereof, and rotating the mold to cause the molten steel to be urged outwardly whereby the steel solidifies at the rim portions first and solidification proceeds inwardly to the center portion, which portion being the last to cool is fed from the central riser.

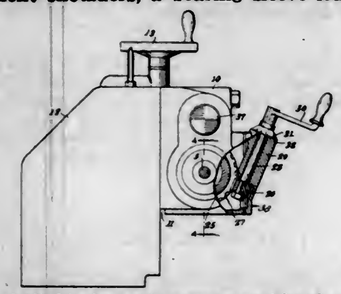
2,283,153
MILLING MACHINE
Frederick Koch, Sparta, N. J., assignor to Associated Patentees, Inc., Ampere, N. J., a corporation of New Jersey
Application December 21, 1939, Serial No. 310,322
3 Claims. (Cl. 90—16)



1. In a milling machine, a hollow machine base, a free swinging lever pivotally hinged at one end to one side of said hollow base, a motor fixed on said hinged lever, a spindle journalled on the base above said motor, belt drive connections between said spindle and motor and supporting said motor and hinged lever, a handle projecting from the opposite end of said hinged lever and a pivoted, free swinging releasable catch for supporting said handle in uplifted position.

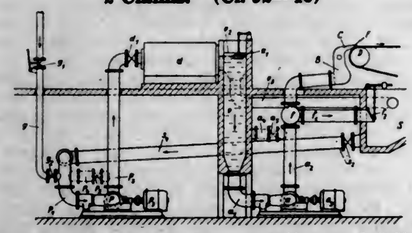
2,283,154
MILLING MACHINE
Frederick Koch, Sparta, N. J., assignor to Associated Patentees, Inc., Ampere, N. J., a corporation of New Jersey
Application December 21, 1939, Serial No. 310,323
1 Claim. (Cl. 90—16)

In a milling machine, the combination of a spindle head having a bearing sleeve passage extending therethrough and a transverse opening through one side of the head of larger diameter than said passage and extending across an intermediate portion of said passage between opposite ends of the same to provide integral thrust abutment shoulders about said passage, opposed to each other and spaced a distance apart equal to the width of said opening, an internally threaded screw ring of greater diameter than said passage and having external gear teeth on the periphery of the same, said screw ring being insertible through said side of the head into said transverse opening between said opposed thrust abutment shoulders, a bearing sleeve longitudi-



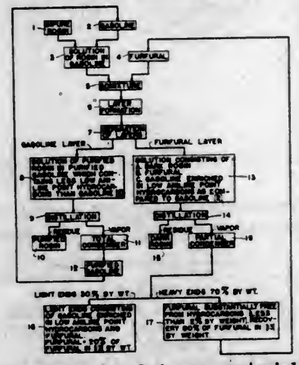
nally shiftable in said passage and having external screw threads engaged by the internal threads of said screw ring, a spindle journalled in said bearing sleeve and shiftable longitudinally therewith, a cover plate over said opening at the side of the head, a bearing carried by and extending through said cover plate, an adjusting shaft journalled in said bearing, means at the outer end of said shaft for rotating the same and a pinion on the inner end of said shaft in engagement with said gear teeth on the periphery of said screw ring.

2,283,155
APPARATUS FOR REGULATING AND DELIVERING PAPER STOCK TO PAPERMAKING MACHINES
Richard T. Lang, Heidenheim on the Brenz, Germany, assignor to J. M. Voith, Heidenheim on the Brenz, Germany, a copartnership composed of Walther Voith, Herman Voith, and Hanns Voith
Application December 15, 1938, Serial No. 245,965
In Germany December 16, 1937
2 Claims. (Cl. 92—46)



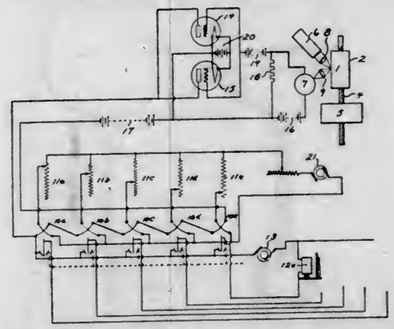
1. In an apparatus for regulating and delivering paper stock to Fourdrinier paper-making machines having a wire, a stock pressure head box with a stock flow nozzle for supplying stock to the wire, and a stock supply pipe having one end thereof connected with the stock pressure head box, the combination with said head box pipe of a closed circuit for the flow of the stock when the stock to the pressure head box is interrupted, said closed circuit consisting of a white water tank below the wire, a mixing pump, a valved stock inlet pipe for said mixing pump, a pipe extending to said mixing pump from the white water tank for guiding the contents of said tank to the mixing pump, a stock storage tank, a pipe extending from the mixing pump to the stock storage tank, a pressure pump for receiving stock from the storage tank and pumping the same through the head box pipe, a pipe connecting the storage tank and pressure pump, a stock supply cut off valve connected with said head box pipe, and a pipe connecting said white water tank with said stock supply cutoff valve, whereby upon the closure of the valved stock inlet pipe and the stock supply cutoff valve, the continued operation of the mixing and pressure pumps continues the flow of stock in said closed circuit without enriching the stock by a further supply of stock, to enable the supply of stock which will be fed upon the wire upon resumption of operation to be of substantially the same density, quantity and pressure of the stock at the wire as existed prior to the interruption which took place when said valved stock inlet pipe and said stock supply cutoff valve were closed.

2,283,156
REFINING PROCESS
Robert W. Martin, Wilmington, Del.
Application October 10, 1940, Serial No. 360,552
8 Claims. (Cl. 260—107)



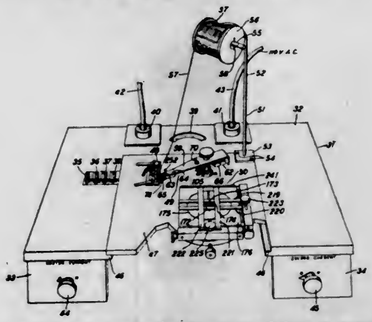
1. The process of refining a material selected from the group consisting of rosin, modified rosin, and esters of rosin and modified rosin, which comprises subjecting said material dissolved in a light petroleum distillate which is liquid at ordinary temperature containing hydrocarbons having an aniline point below about 50° C. to treatment with a selective solvent for color bodies in said material and for hydrocarbons having an aniline point below about 50° C., said selective solvent being capable of immiscibility with the said light petroleum distillate solution, separating the resulting immiscible solutions comprising an extract phase containing said selective solvent together with said color bodies and substantially all of said hydrocarbons having an aniline point below about 50° C. contained in the said light petroleum distillate, and a raffinate phase containing the refined material dissolved in the light petroleum distillate substantially free from the hydrocarbons having an aniline point below about 50° C. originally contained therein, resolving said extract phase into a fraction of pure selective solvent substantially free of color bodies and said hydrocarbons having an aniline point below about 50° C. and into at least one other fraction containing the said low aniline point hydrocarbons, recycling said recovered fraction of pure selective solvent for carrying out the extraction treatment of additional solution of said material in a light petroleum distillate containing hydrocarbons having an aniline point below about 50° C.

2,283,157
TRANSLATION OF MODULATED ELECTRIC CURRENT INTO A SERIES OF IMPULSES
Maynard D. McFarlane, Hollywood, Calif.
Original application June 3, 1926, Serial No. 113,432, now Patent No. 2,070,913, dated February 16, 1937. Divided and this application August 21, 1936, Serial No. 97,203. In Great Britain April 1, 1926
25 Claims. (Cl. 178—7.1)



6. In the art of telautography, that step in the art which consists in causing a beam of light to be reflected from a picture which is to be transmitted and causing said reflected beam of light to produce an electric pulse of intensity corresponding to the tone value of a unit area of said picture.

2,283,158
SOLDER CONNECTING APPARATUS
Robert G. Humphrey, Pelham, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 31, 1940, Serial No. 372,528
2 Claims. (Cl. 219—12)

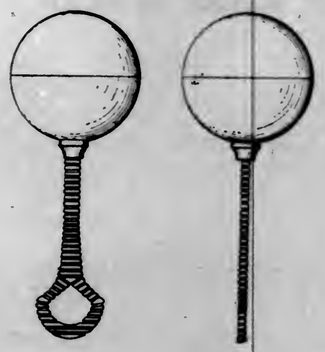


1. A wire holding chuck comprising a support, an arm pivotally mounted on said support, a pair of jaw members supported on said arm, means to operate said jaw members, an apertured button supported beneath said jaw members, supporting means for said button, a contact finger insulatingly supported on said arm and extending below said arm, and said jaws and said contact finger serving as spaced electrodes of an electrowelding system.

DESIGNS

MAY 12, 1942

132,342
DESIGN FOR A RATTLE
Irwin E. Cohn, Leominster, Mass.
Application February 7, 1942, Serial No. 105,704
Term of patent 14 years



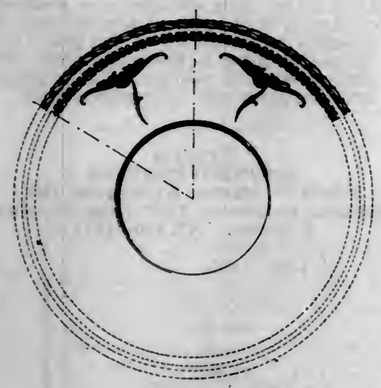
The ornamental design for a rattle, as shown and described.

132,343
DESIGN FOR A COMBINED POT SCRAPER, DISHCLOTH, AND SOAP UNIT
Edward Howell Bernstein, Melrose Park, Pa., assignor to Lewis P. Weil, Philadelphia, Pa.
Application January 29, 1942, Serial No. 105,494
Term of patent 7 years



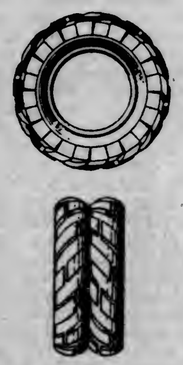
The ornamental design for a combined pot scraper, dishcloth and soap unit, as shown.

132,344
DESIGN FOR A DISH OR SIMILAR ARTICLE
George E. Gregory, Providence, R. I., assignor to Oneida Ltd., Oneida, N. Y., a corporation of New York
Application August 29, 1941, Serial No. 103,080
Term of patent 7 years



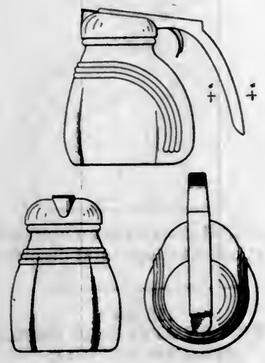
The ornamental design for a dish or similar article, substantially as shown and described.

132,345
DESIGN FOR A DUAL TIRE
Henry J. Jezek, Rosebud, and Louis F. Jezek, Temple, Tex.
Application February 3, 1942, Serial No. 105,618
Term of patent 3½ years



The ornamental design for a dual tire, substantially as shown and described.

132,346
DESIGN FOR A PITCHER
John Richard Lawrence, Worcester, Mass., assignor to The Washburn Company, Worcester, Mass., a corporation of Massachusetts
Application May 7, 1940, Serial No. 92,195
Term of patent 7 years



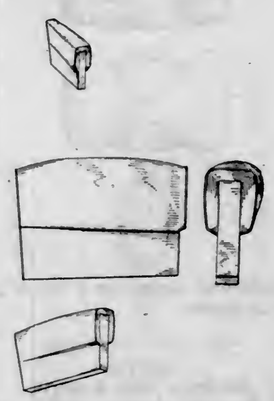
The ornamental design for a pitcher, as shown.

132,347
DESIGN FOR A DRESS ENSEMBLE
Henry Salow, New York, N. Y.
Application April 3, 1942, Serial No. 106,450
Term of patent 3½ years



The ornamental design for a dress ensemble, substantially as shown.

132,348
DESIGN FOR AN ENDPIECE FOR A SOFA OR THE LIKE
David J. Saltman, Los Angeles, Calif.
Application December 15, 1941, Serial No. 104,638
Term of patent 7 years



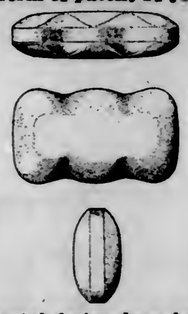
The ornamental design for an endpiece for a sofa or the like, substantially as shown and described.

132,349
DESIGN FOR A JACKET OR SIMILAR ARTICLE
Jacob Sniderman, Toronto, Ontario, Canada
Application October 9, 1941, Serial No. 103,698
In Canada August 12, 1941
Term of patent 7 years



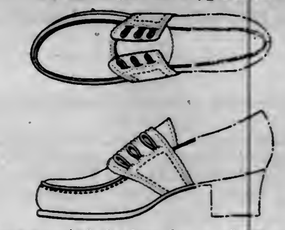
The ornamental design for a jacket or similar article, substantially as shown and described.

132,350
DESIGN FOR A BAR OF SOAP
Harold B. Stoner, Dayton, Ohio, and Richard W. Angert, Camp Hulen, Tex., assignors to The Hewitt Soap Company, Inc., Dayton, Ohio, a corporation of Ohio
Application November 26, 1941, Serial No. 104,347
Term of patent 14 years



The ornamental design for a bar of soap, substantially as shown.

132,351
DESIGN FOR A SHOE
Richard P. Boothby, Auburn, Maine, assignor to Air-Tred Shoes, Inc., Auburn, Maine, a corporation of Maine
Application August 13, 1941, Serial No. 102,819
Term of patent 3½ years



The ornamental design for a shoe substantially as shown and described.

132,352
DESIGN FOR AN APPLIQUÉ EMBLEM OR SIMILAR ARTICLE
Walter P. Burn and Helen Jurkops, Washington, D. C., assignors to United States of America, as represented by James M. Landis, United States Director of Civilian Defense, Office of Civilian Defense, and his successors in office
Application February 11, 1942, Serial No. 105,751
Term of patent 7 years



The ornamental design for an appliqué emblem or similar article, as shown and described.

132,353
DESIGN FOR AN APPLIQUÉ EMBLEM OR SIMILAR ARTICLE
Walter P. Burn and Helen Jurkops, Washington, D. C., assignors to United States of America, as represented by James M. Landis, United States Director of Civilian Defense, Office of Civilian Defense, and his successors in office
Application February 11, 1942, Serial No. 105,752
Term of patent 7 years



The ornamental design for an appliqué emblem or similar article, as shown and described.

132,354
DESIGN FOR AN APPLIQUÉ EMBLEM OR SIMILAR ARTICLE
Walter P. Burn and Helen Jurkops, Washington, D. C., assignors to United States of America, as represented by James M. Landis, United States Director of Civilian Defense, Office of Civilian Defense, and his successors in office
Application February 11, 1942, Serial No. 105,753
Term of patent 7 years



The ornamental design for an appliqué emblem or similar article, as shown and described.

132,355
DESIGN FOR A BADGE OR SIMILAR ARTICLE
Margaret Davis Cogswell, Arlington, Mass.
Application January 20, 1942, Serial No. 105,325
Term of patent 7 years



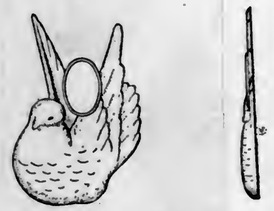
The ornamental design for a badge or similar article, substantially as shown.

132,356
DESIGN FOR AN ELECTRIC PLATE HEATER
Halvdan J. Eriksen, Ottawa, Ontario, Canada
Application September 18, 1941, Serial No. 103,743
In Canada March 18, 1941
Term of patent 7 years



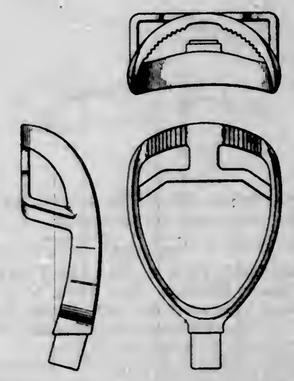
The ornamental design for an electric plate heater, substantially as shown.

132,357
DESIGN FOR A PICTURE-CARRYING BROOCH OR THE LIKE
Max Fellman, New York, N. Y.
Application March 11, 1942, Serial No. 106,154
Term of patent 7 years



The ornamental design for a picture-carrying brooch or the like, substantially as shown.

132,358
DESIGN FOR A STIRRUP FOR PHYSICIAN'S EXAMINING TABLE
George E. Froelich, Two Rivers, Wis., assignor to Hamilton Manufacturing Company, Two Rivers, Wis., a corporation of Wisconsin
Application October 2, 1941, Serial No. 103,610
Term of patent 14 years



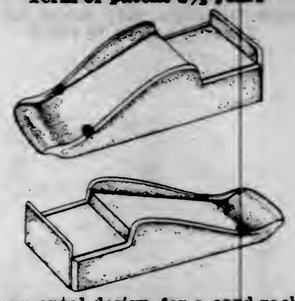
The ornamental design for a stirrup for physician's examining table, substantially as shown and described.

132,359
DESIGN FOR A VASE
Edwin W. Fuerst and Charles W. Sawyer, Toledo, Ohio, assignors to Libbey Glass Company, Toledo, Ohio, a corporation of Ohio
Application September 25, 1941, Serial No. 103,482
Term of patent 7 years



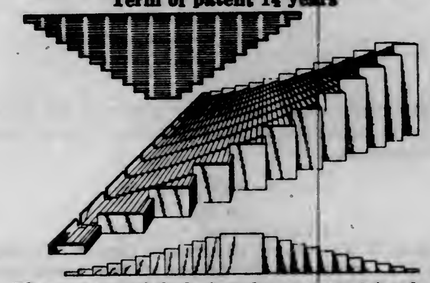
The ornamental design for a vase, substantially as shown.

132,360
DESIGN FOR A CARD RACK OR SIMILAR ARTICLE
Julius J. Gardner, New York, N. Y.
Application December 1, 1941, Serial No. 104,406
Term of patent 3½ years



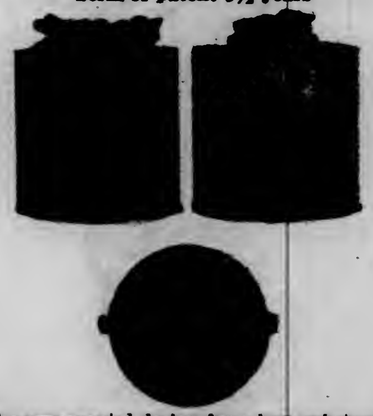
The ornamental design for a card rack or similar article, substantially as shown.

132,361
DESIGN FOR A GRANDSTAND
Gavin Hadden, New York, N. Y.
Application February 16, 1940, Serial No. 90,312
Term of patent 14 years



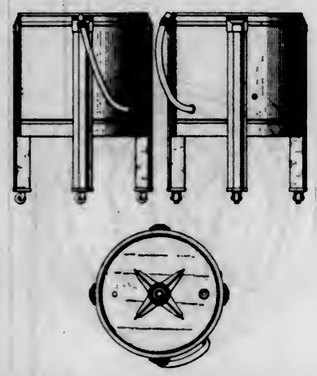
The ornamental design for a grandstand, as shown and described.

132,362
DESIGN FOR A BOX
Frank McIntosh, New York, N. Y., assignor to Lentheric Incorporated, New York, N. Y., a corporation of New York
Application February 19, 1941, Serial No. 99,103
Term of patent 3½ years



The ornamental design for a box, substantially as shown.

132,363
DESIGN FOR A WASHING MACHINE
Irving Nachumsohn, Chicago, Ill.
Application December 18, 1940, Serial No. 97,423
Term of patent 14 years



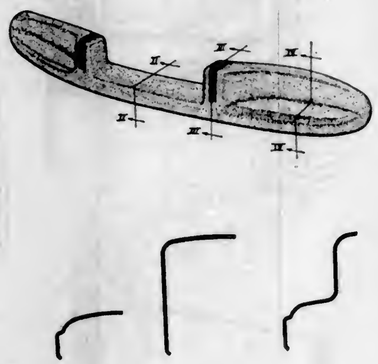
The ornamental design for a washing machine, substantially as shown.

132,364
DESIGN FOR A FIGURINE OR SIMILAR ARTICLE
Frank Powell, Miami, Fla.
Application March 27, 1942, Serial No. 106,338
Term of patent 3½ years



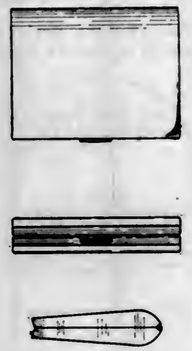
The ornamental design for a figurine or similar article, substantially as shown.

132,365
DESIGN FOR AN AUTOMOBILE BUMPER OR SIMILAR ARTICLE
George W. Walker, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application December 9, 1940, Serial No. 97,202
Term of patent 7 years



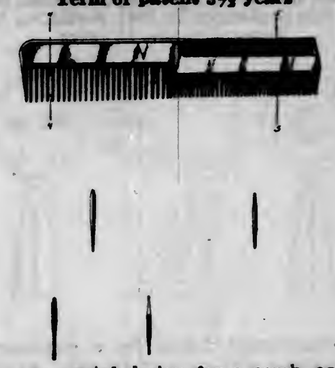
The ornamental design for an automobile bumper or similar article, as shown.

132,366
DESIGN FOR A VANITY CASE
Arthur P. Conant, Fort Thomas, Ky., assignor to Lentheric Incorporated, New York, N. Y., a corporation of New York
Application October 24, 1940, Serial No. 96,047
Term of patent 7 years



The ornamental design for a vanity case, substantially as shown and described.

132,367
DESIGN FOR A COMB
Hiroshi Imamura, Salinas, Calif.
Application October 30, 1941, Serial No. 103,965
Term of patent 3½ years



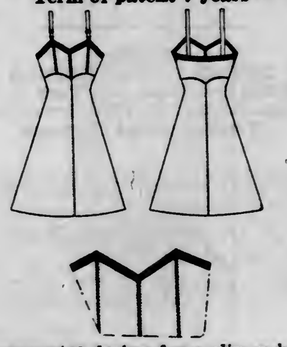
The ornamental design for a comb, as shown.

132,368
DESIGN FOR A COMBINED FLOWERPOT AND SUPPORT
Clarence W. Jorgensen, Chicago, Ill.
Application March 8, 1941, Serial No. 99,437
Term of patent 7 years



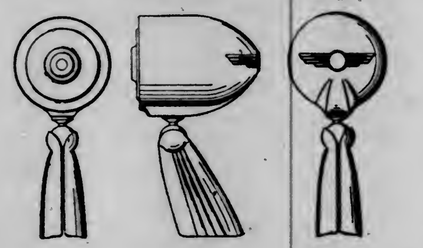
The ornamental design for a combined flowerpot and support, substantially as shown and described.

132,369
DESIGN FOR A SLIP
Sam Landau, New York, N. Y.
Application March 28, 1942, Serial No. 106,355
Term of patent 7 years



The ornamental design for a slip, substantially as shown and described.

132,370
DESIGN FOR A COMBINED FAN MOTOR HOUSING AND SUPPORT THEREFOR
Harry L. Layton, Rochester, N. Y., assignor to Samson United Corporation, Rochester, N. Y.
Application September 17, 1941, Serial No. 103,384
Term of patent 14 years



The ornamental design for a combined fan motor housing and support therefor, as shown.

132,371
DESIGN FOR A LADY'S HAT
Samuel Lish, Woodmere, N. Y.
Application December 5, 1941, Serial No. 104,500
Term of patent 14 years



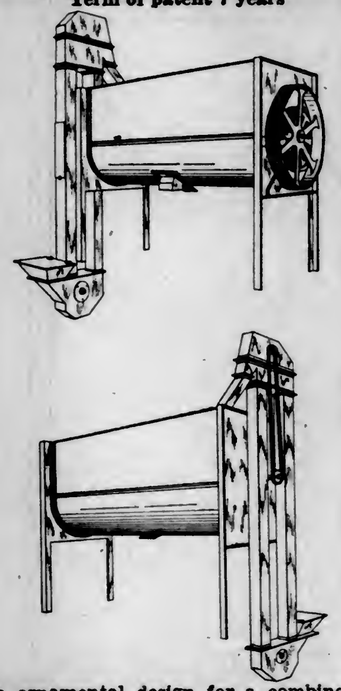
The ornamental design for a lady's hat, substantially as shown and described.

132,372
DESIGN FOR A BILLFOLD
Morris Smallman, New York, N. Y.
Application January 27, 1942, Serial No. 105,452
Term of patent 3½ years



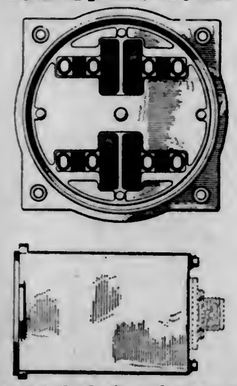
The ornamental design for a billfold, substantially as shown and described.

132,373
DESIGN FOR A COMBINED CONVEYER AND MIXER FOR STOCK FEEDS, FLOURS, AND THE LIKE
Vance J. Coleman, Cedar Rapids, Iowa
Application September 12, 1941, Serial No. 103,315
Term of patent 7 years



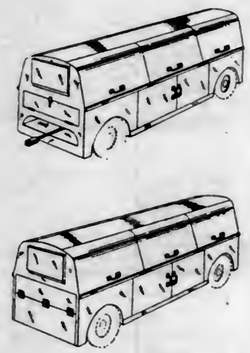
The ornamental design for a combined conveyer and mixer for stock feeds, flours, and the like, as shown.

132,374
DESIGN FOR AN AMMUNITION ROUNDS COUNTER
Richard Daalder, East Paterson, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application July 16, 1941, Serial No. 102,195
Term of patent 14 years



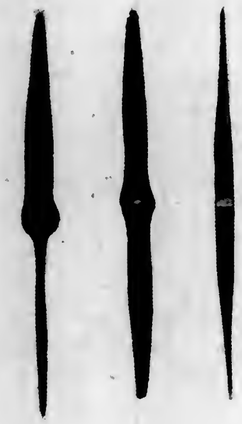
The ornamental design for an ammunition rounds counter, as shown and described.

132,375
DESIGN FOR A TRAILER
Richard J. Elkus, San Francisco, Calif.
Application November 14, 1941, Serial No. 104,151
Term of patent 7 years



The ornamental design for a trailer, as shown.

132,376
DESIGN FOR AN AIRCRAFT PROPELLER
Max M. Munk, Cottage City, Md.
Application January 12, 1942, Serial No. 105,146
Term of patent 14 years



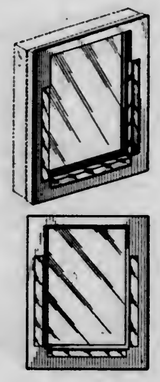
The ornamental design for an aircraft propeller, substantially as shown and described.

132,377
DESIGN FOR A SWIMMING DEVICE
Walton Hall Smith, Kansas City, Mo.
Application February 5, 1941, Serial No. 98,761
Term of patent 14 years



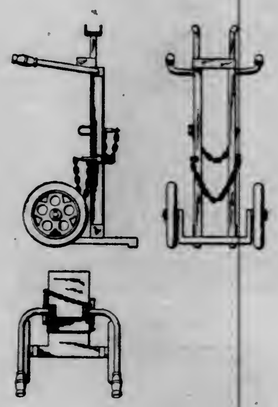
The ornamental design for a swimming device, as shown.

132,378
DESIGN FOR AN ILLUMINATED MIRROR CABINET
Robert G. Nordquist, Chicago, Ill., assignor to Patent License Corporation, Chicago, Ill., a corporation of Illinois
Application September 20, 1941, Serial No. 103,436
Term of patent 14 years



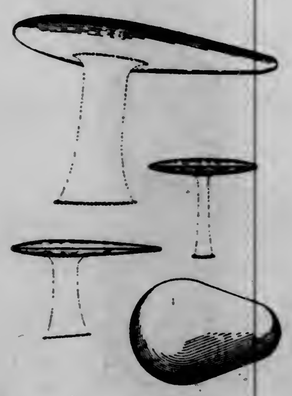
The ornamental design for an illuminated mirror cabinet, substantially as shown and described.

132,379
DESIGN FOR A HAND TRUCK
William V. Geetsch, Naperville, Ill.
Application December 30, 1941, Serial No. 104,923
Term of patent 7 years



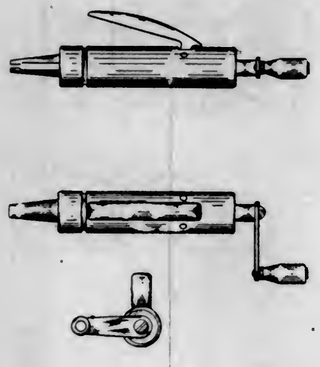
The ornamental design for a hand truck, as shown.

132,380
DESIGN FOR AN ANTENNA HOUSING
George A. Page, La Grange, Ill., assignor to United Air Lines Transport Corporation, Chicago, Ill., a corporation of Delaware
Application February 10, 1942, Serial No. 105,746
Term of patent 14 years



The ornamental design for an antenna housing, substantially as shown and described.

132,381
DESIGN FOR A WIRE TWISTING DEVICE
Wilfred E. Tabb, Cleveland Heights, and William Paul, South Euclid, Ohio, assignors to Jack & Heintz, Inc., Bedford, Ohio
Application March 5, 1942, Serial No. 106,086
Term of patent 14 years



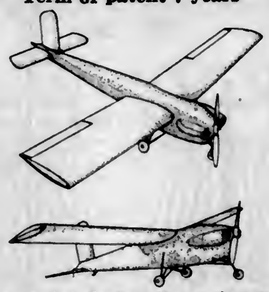
The ornamental design for a wire twisting device, substantially as shown.

132,382
DESIGN FOR A DRESS ENSEMBLE
Milton Berger, Dumont, N. J.
Application March 11, 1942, Serial No. 106,150
Term of patent 3½ years



The ornamental design for a dress ensemble, substantially as shown and described.

132,383
DESIGN FOR A TARGET AIRPLANE OR SIMILAR ARTICLE
Robert E. Reedy, North Hollywood, Calif., assignor, by mesne assignments, to Vega Aircraft Corporation, a corporation of California
Application December 6, 1940, Serial No. 97,127
Term of patent 7 years



The ornamental design for a target airplane or similar article, substantially as shown.

132,384
DESIGN FOR A DRESS
Pauline Bonagura, New York, N. Y.
Application April 20, 1942, Serial No. 106,624
Term of patent 3½ years



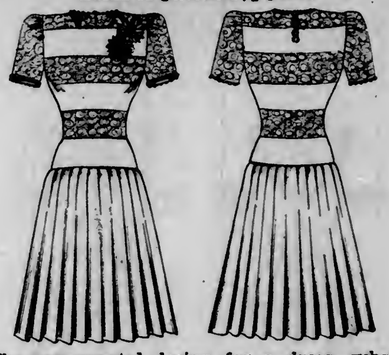
The ornamental design for a dress, substantially as shown.

132,385
DESIGN FOR A DRESS
Anna Louise S. Carroll, New York, N. Y.
Application April 11, 1942, Serial No. 106,525
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,386
DESIGN FOR A DRESS
Anna Louise S. Carroll, New York, N. Y.
Application April 11, 1942, Serial No. 106,526
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,387
DESIGN FOR A DRESS
Anna Louise S. Carroll, New York, N. Y.
Application April 11, 1942, Serial No. 106,527
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,388
DESIGN FOR A DRESS
Anna Louise S. Carroll, New York, N. Y.
Application April 11, 1942, Serial No. 106,528
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,389
DESIGN FOR A DRESS
Anna Louise S. Carroll, New York, N. Y.
Application April 11, 1942, Serial No. 106,529
Term of patent 3½ years



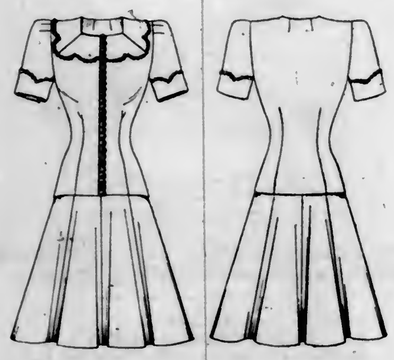
The ornamental design for a dress, substantially as shown.

132,390
DESIGN FOR A DRESS
Anna Louise S. Carroll, New York, N. Y.
Application April 11, 1942, Serial No. 106,530
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,391
DESIGN FOR A DRESS
Anna Louise S. Carroll, New York, N. Y.
Application April 11, 1942, Serial No. 106,531
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,392
DESIGN FOR A DRESS
Anna Louise S. Carroll, New York, N. Y.
Application April 11, 1942, Serial No. 106,532
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,393
DESIGN FOR A DRESS
Anna Louise S. Carroll, New York, N. Y.
Application April 11, 1942, Serial No. 106,533
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,394
DESIGN FOR A DRESS
Anna Louise S. Carroll, New York, N. Y.
Application Arpil 11, 1942, Serial No. 106,534
Term of patent 3½ years



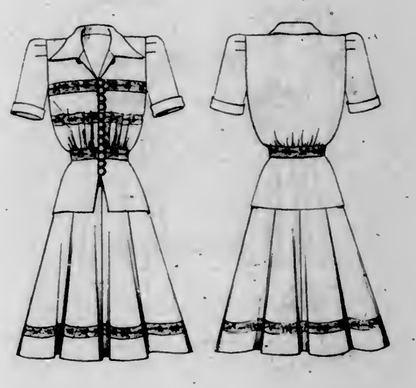
The ornamental design for a dress, substantially as shown.

132,395
DESIGN FOR A DRESS
Anna Louise S. Carroll, New York, N. Y.
Application April 11, 1942, Serial No. 106,535
Term of patent 3½ years



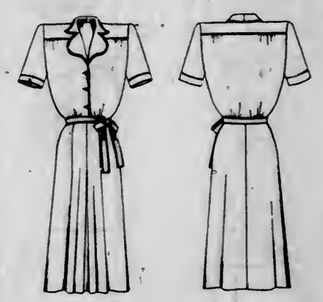
The ornamental design for a dress, substantially as shown.

132,396
DESIGN FOR A DRESS
Anna Louise S. Carroll, New York, N. Y.
Application April 11, 1942, Serial No. 106,536
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,397
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application April 11, 1942, Serial No. 106,541
Term of patent 3½ years



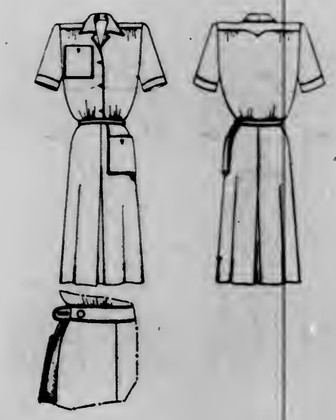
The ornamental design for a dress, substantially as shown.

132,398
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application April 11, 1942, Serial No. 106,542
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,399
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application April 11, 1942, Serial No. 106,543
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,400
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application April 11, 1942, Serial No. 106,544
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,401
DESIGN FOR A HOSTESS ROBE
Violet Giovagnoni, New York, N. Y.
Application April 11, 1942, Serial No. 106,546
Term of patent 3½ years



The ornamental design for a hostess robe, substantially as shown.

132,402
DESIGN FOR AN ICE CREAM CONE
Earl M. James, Maplewood, Mo.
Application August 27, 1941, Serial No. 103,055
Term of patent 3½ years



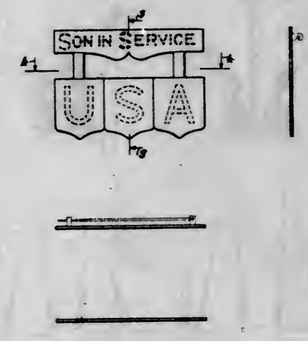
The ornamental design for an ice cream cone, as shown.

132,403
DESIGN FOR A DRESS
Philip Kaperst, New York, N. Y.
Application April 11, 1942, Serial No. 106,545
Term of patent 3½ years



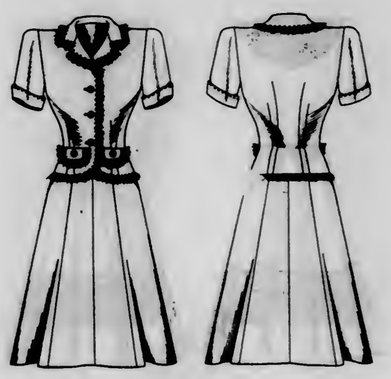
The ornamental design for a dress, substantially as shown.

132,404
DESIGN FOR A PIN OR SIMILAR ARTICLE
Benjamin Margone, Bronx, and Herman Shweder, Brooklyn, N. Y.
Application January 26, 1942, Serial No. 105,438
Term of patent 3½ years



The ornamental design for a pin or similar article, substantially as shown.

132,405
DESIGN FOR A DRESS
Marion McCoy, St. Louis, Mo.
Application April 11, 1942, Serial No. 106,547
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,406
DESIGN FOR A DRESS
Marion McCoy, St. Louis, Mo.
Application April 11, 1942, Serial No. 106,548
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,407
DESIGN FOR A DRESS
Marion McCoy, St. Louis, Mo.
Application April 11, 1942, Serial No. 106,549
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,408
DESIGN FOR A DRESS
Marion McCoy, St. Louis, Mo.
Application April 11, 1942, Serial No. 106,550
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,409
DESIGN FOR A DRESS
Marion McCoy, St. Louis, Mo.
Application April 11, 1942, Serial No. 106,551
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,410
DESIGN FOR A DRESS
Marion McCoy, St. Louis, Mo.
Application April 11, 1942, Serial No. 106,552
Term of patent 3½ years



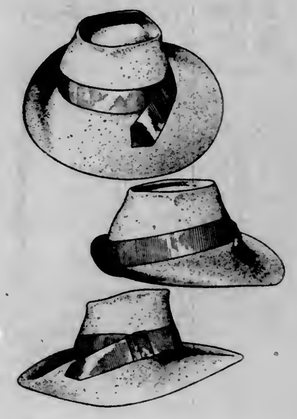
The ornamental design for a dress, substantially as shown.

132,411
DESIGN FOR A DRESS
Ruth Payne, New York, N. Y.
Application April 15, 1942, Serial No. 106,574
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,412
DESIGN FOR A HAT
Arthur J. Stack, Westport, Conn., and Alys C. Moran, New York, N. Y., assignors to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware
Application June 27, 1941, Serial No. 101,737
Term of patent 3½ years



The ornamental design for a hat, as shown and described.

132,413
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Paula Strauss, New York, N. Y.
Application March 4, 1942, Serial No. 106,081
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown and described.

132,414
DESIGN FOR A DRESS
Samuel Zahn, New York, N. Y.
Application April 11, 1942, Serial No. 106,537
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,415
DESIGN FOR A DRESS
Samuel Zahn, New York, N. Y.
Application April 11, 1942, Serial No. 106,539
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,416
DESIGN FOR A DRESS
Samuel Zahn, New York, N. Y.
Application April 11, 1942, Serial No. 106,540
Term of patent 3½ years



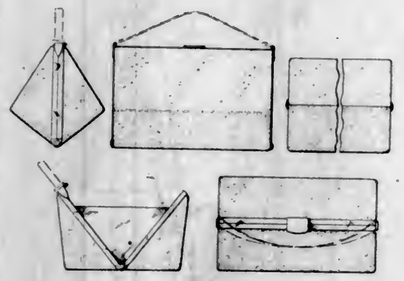
The ornamental design for a dress, substantially as shown.

132,417
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Milton M. Cann, Brooklyn, N. Y.
Application March 12, 1942, Serial No. 106,167
Term of patent 3½ years



The ornamental design for a textile fabric or similar article, as shown.

132,418
DESIGN FOR A HANDBAG OR THE LIKE
William J. Reilly, North Attleboro, Mass.
Application March 2, 1942, Serial No. 106,056
Term of patent 3½ years



The ornamental design for a handbag or the like, as shown and described.

THE
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OF THE
United States Patent Office

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CONTENTS

	Page
Issue of May 19, 1942	501
Notices of Cancellation	501
Erratum	501
Adjudicated Patents	501
Applications Under Examination	502
Decisions of the U. S. Courts—	
In re Fischer	503
In re Keeling	505
Patent Suits	509
Adverse Decisions in Interference	511
Trade-Mark Registrations Canceled	511
Disclaimers	511
Changes in Classification	511
Trade-Marks Published (112 Applications)	513
Trade-Mark Registrations Granted	527
Trade-Mark Registrations Renewed	536
Reissues	539
Plant Patents	539
Patents Granted	541
Designs	719

May 19, 1942

Trade-marks	178—No.	395,210 to No.	395,387, inclusive
T. M. Renewals	54		
Reissues	2—No.	22,098 to No.	22,099, inclusive.
Plant Patents	2—No.	516 to No.	517, inclusive.
Patents	738—No.	2,283,159 to No.	2,283,896, inclusive.
Designs	90—No.	132,419 to No.	132,508, inclusive.
Total	1,064		

Notices of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., Apr. 17, 1942.*

Tetsujiro Kageyama, his assigns or legal representatives, take notice:

An application for cancellation having been filed in this Office by Continental Coffee Company, Inc., 375 W. Ontario St., Chicago, Ill., to effect the cancellation of trade-mark registration of Tetsujiro Kageyama, 546 Sansome St., San Francisco, Calif., No. 211,867, dated April 20, 1926, and the notice of such proceeding sent by registered mail to the said Tetsujiro Kageyama at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Tetsujiro Kageyama, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., April 24, 1942.*

West Coast Textile Company, its assigns or legal representatives take notice:

An application for cancellation having been filed in this Office by Thistletex Weavers, Inc., 78 Franklin St., New York, N. Y., to effect the cancellation of trade-mark registration of West Coast Textile Company, Redlands, Calif., No. 163,416, dated January 9, 1923, and the notice of such proceeding sent by registered mail to the said West Coast Textile Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said West Coast Textile Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Erratum

In the OFFICIAL GAZETTE of April 21, 1942, Vol. 537, page 499, second column, line 6, strike out "nails, D. C., N. D. Ill., E. Div., Doc. 2452, A. J. Deniston," and insert the same after "Weatherproof" in line 4.

Adjudicated Patents

(D. C. Ill.) Holman patent, No. 1,594,617, for cup-forming machine with stacking attachment, claims 1 and 2, *Held* valid and infringed. *Dixie-Vortex Co.* v. *Paper Container Mfg. Co.*, 43 F. Supp. 518.

(D. C. Ill.) Barbieri patent, No. 1,610,192, for conical paper cup and process for making the same, claim 1, *Held* invalid and infringed, claims 2–5, *Held* valid and infringed. *Id.*

(D. C. Del.) Anderson patent, No. 1,772,824, for bag-closing machine, claim 14, *Held* invalid, and even if valid *Held* not infringed. *Consolidated Packaging Machinery Corporation* v. *General Mills*, 43 F. Supp. 557.

(D. C. Del.) Anderson patent, No. 1,984,049, for bag closing and sealing machine, claims 1, 2, 3, and 23, *Held* invalid and even if valid, *Held* not infringed. *Id.*

(D. C. Del.) Anderson patent, No. 2,083,417, for bag closing and sealing machine, claims 1, 2, and 3, *Held* invalid, and even if valid, *Held* not infringed. *Id.*

(D. C. Ill.) Smith and Bild patent, No. 2,203,510, for method and machine for making paper cups, *Held* valid, claims 5 and 7, *Held* not infringed, claims 6, 9, 10, 11, 20, 23 and 24, *Held* infringed. *Dixie-Vortex Co.* v. *Paper Container Mfg. Co.*, 43 F. Supp. 518.

(D. C. Ill.) Amberg patent, No. 2,203,513, for apparatus for and method of making containers, *Held* valid, claims 4, 5, 8–11, 13, 20, 40, and 41, *Held* infringed. *Id.*

(D. C. N. Y.) Grandinetti design patent, No. 104,138, for design for a combined fruit and vegetable expresser and strainer, *Held* valid and not infringed. *Bourquin* v. *Grandinetti*, 43 F. Supp. 523.

Condition of Applications Under Examination at Close of Business May 2, 1942

(Total number of applications awaiting action, excluding Trade-Mark Division, 46,974; Trade-Mark Division, 1,044. Oldest new case, July 10, 1941; oldest amended, April 28, 1941.)
(The dates given are 1941 except where † indicates 1942)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action: New	Oldest new application awaiting office action: Amended	No. of applications awaiting action
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Aug. 30	Aug. 18	722
6708	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	N	Oct. 28	678
4003	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Dec. 17	Dec. 16	503
7083	4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating, Elevators; Fire Escapes; Ladders, Scaffolds; Stone Service; Pneumatic Despatch.	Dec. 4	Dec. 3	498
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	Nov. 28	Nov. 13	426
4998 C	6. LEWERS, A. M., Carbon Chemistry (part)	Sept. 25	Sept. 17	1201
5726	7. JARBOE, C. G., Optics; Photography	Sept. 25	Sept. 17	1004
2685	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	Oct. 20	Nov. 7	748
4624	9. ADAMS, E. E., Pumps; Fluid and Fluid-Current Motors	Oct. 21	Oct. 22	632
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.			
6087 B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	†Jan. 19	†Jan. 15	356
7701	12. SPINTMAN, SAMUEL (Act.), Machine Elements; Mechanical Starters; Stop Mechanisms	Nov. 7	Nov. 12	545
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Aug. 20	Aug. 19	616
6097	14. FREEHOF, H. B. (Act.), Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	Dec. 22	Dec. 17	622
4897	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Oct. 2	Oct. 2	1102
5716	16. SPENCER, O. J., Telegraphy; Telephony	Oct. 27	Oct. 27	575
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	July 31	Aug. 4	996
4613	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Oct. 30	Oct. 15	566
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Sept. 30	Oct. 18	568
6606	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	Nov. 17	Oct. 27	420
7723	21. THOMPSON, T. J., Textiles; Cloth Finishing	Dec. 13	Dec. 29	390
5800	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	July 10	July 10	1856
7624	23. BUTTNER, W. J., Registers (part)	Aug. 29	July 26	283
5063	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Oct. 20	Oct. 20	809
5709	25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Nov. 10	Nov. 26	490
5803	26. YOUNG, R. R., Electricity, Generation; Motive Power	Dec. 16	Nov. 18	466
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	Oct. 18	Aug. 19	540
4626	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	Oct. 25	Oct. 3	370
5083	29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	Sept. 5	Oct. 4	679
4063	30. McCANN, L. P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	†Jan. 22	†Jan. 23	407
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	Nov. 7	Nov. 7	1458
4086	32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Nov. 3	Nov. 3	891
6096	33. KAUFFMAN, H. E. (Act.), Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads.	Oct. 22	Oct. 11	849
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Surface Track; Track Sanders; Draft Appliances; Signals and Indicators.	Aug. 1	Nov. 24	402
3576	35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Portable Receptacles	Aug. 12	Aug. 7	977
7902	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Oct. 17	Oct. 24	663
6096 B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	†Jan. 7	†Jan. 6	552
2084	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stoneworking; Walls; Plastic Compositions.	Oct. 1	Sept. 30	771
4578	39. WHITNEY, F. L., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Dec. 19	Dec. 24	507
7680	40. DRUMMOND, E. J., Metallic, Wood, Paper, and Special Receptacles	Oct. 3	Oct. 2	1502
7612	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	Nov. 13	Nov. 13	556
3983	42. CUTTING, H. C., Electric Signaling	Nov. 24	Nov. 10	474
4096 B	43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Sept. 17	Sept. 17	871
4057 B	44. HARVEY, L. P., Refrigeration	Dec. 5	Nov. 6	337
7096	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Aug. 21	Aug. 21	756
4613	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Sept. 15	Sept. 15	731
6082	47. KANOF, W. J., Clutches; Brakes	Aug. 1	Aug. 1	1039
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Sept. 17	Sept. 22	843
7726	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Oct. 18	Sept. 29	677
4701	50. LEVIN, S., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	Oct. 2	Oct. 2	1506
5626	51. BACKUS, C. D., Radiant Energy (part)	†Jan. 28	†Jan. 14	434
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	†Jan. 9	†Jan. 8	348
6907	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Sept. 18	April 28	549
5863	54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	Dec. 16	Dec. 18	502
6963	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	†Jan. 3	†Jan. 2	300
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Sept. 6	Sept. 5	1328
6813	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Drives and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	Dec. 2	Dec. 25	255
5806	58. DOWELL, E. F., Abrading; Bottles and Jars	Dec. 11	Dec. 10	418
4709	59. SHEPPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	Aug. 21	Aug. 12	1390
5996	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Nov. 20	Nov. 20	312
6724	61. YUNGKWAI, B., Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	Oct. 6	Oct. 8	780
5821	62. PUGH, E. C., Games; Geometrical Instruments	Sept. 26	Aug. 25	651
4096	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	Aug. 5	Aug. 5	1378
4706	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats and Glue; Liquid Coating Compositions; Fuel.	Oct. 20	Oct. 18	1660
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	Oct. 31	Dec. 3	410
2009 B	Trade Marks: F. A. RICHMOND	†Feb. 28	†Mar. 20	1044
2805	Designs: H. H. KALUPY	†Mar. 26	†April 2	599

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE FISCHER

No. 4,562. Decided February 24, 1942

[125 F.(2d) 725]

1. RULE 66—AFFIDAVIT BY BOARD OF APPEALS.

Where the Board of Appeals in its decision stated that, "It is quite customary to have granular material applied to rubber roofing," and the appellant requested further information concerning this statement, and where the record which was before the Board of Appeals disclosed that it was old and customary to have granular material applied to rubber roofing *Held* that it was not necessary for the Board of Appeals to submit affidavits or furnish other references to show such practice and that while the Board of Appeals might well have pointed out to appellant the disclosure of such practice in the record, its failure to do so was not reversible error.

2. PATENTABILITY—METHOD OF MAKING WATERPROOF SLABS.

Certain claims to a method of making waterproof slabs *Held* unpatentable over the prior art.

APPEAL from Patent Office. Affirmed.

Mr. Albert F. Robinson for Fischer.

Mr. W. W. Cochran (*Mr. Clarence W. Moore* of counsel) for the Commissioner of Patents.

BLAND, *J.*:

Appellant filed an application in the United States Patent Office for a patent relating to waterproof slabs and the method of making the same. Division was required between the method and the article claims. The article claims were allowed in a divisional application. The Primary Examiner rejected all the method claims, 1 to 4, inclusive, 8 to 14, inclusive, and 25 to 28, inclusive, and his decision so rejecting said claims was affirmed upon appeal to the Board of Appeals. Appellant has appealed here from the decision of the Board.

The references relied upon are: Woodley, 1,156,122, October 12, 1915; Tucker, 1,220,293, March 27, 1917; Weiss, 1,334,061, March 16, 1920.

Claim 1 will be regarded by us as illustrative. Specific features of the other claims will be noted hereinafter. Claim 1 follows:

1. The herein described method of producing preformed construction block-like stripe containing a plastic waterproof binder and shredded waste bituminized fabrics which comprises collecting pieces of saturated felt in a mixing apparatus which is heated to a temperature sufficient to melt asphalt to a semi-fluid or fluid consistency, agitating the material in the mixing apparatus while said apparatus is heated, removing the material from the mixer after agitating for a predetermined time, and converting the material while in a warm, plastic, flowable condition into preformed construction material of the class described.

It has been over fifteen years since the application was filed. Much time was taken up as a result of the requirement for division as well as interference proceedings in which appellant's application was involved. The ex parte prosecution of the method claims involved numerous amendments, appeals, petitions, remands and withdrawals of certain grounds of rejection, all of which necessarily make the record before us considerably complicated.

The alleged invention is described in appellant's brief as follows:

This invention • • • relates to producing preformed block-like strips containing a plastic waterproof binder and shredded waste asphalt roofing scrap. Small pieces of the bituminized fabric scrap are placed in a container which is heated sufficiently to melt the asphalt to a fluid or semi-fluid condition. The batch is agitated or mixed, while heated, to reduce the roofing scrap to a plastic mass. The mass is formed, while in a warm plastic, flowable condition into a strip. There is no disintegration of the fibers. Only the fabric is shredded by having the fibers composing same pulled apart and separated. • • •

The mass is formed into shape by any suitable forming means such as an extrusion machine, hydraulic press or the like. • • •

Appellant in his brief groups the claims as follows:

Claims 1, 2, 3, 9, 10, 11, 14, 25, 26, 27, and 28 are the broadest ones, relating to a method of making strips containing a waterproof plastic binder and *shredded* waste bituminized fabrics by subjecting pieces of saturated felt to a heating apparatus which is heated to a temperature sufficient to melt the asphalt to a *semi-fluid or fluid consistency*, agitating the material for a predetermined time *while the apparatus is heated*, and then forming the mixture into shape *while in a warm plastic condition*. [Italics quoted.]

Claims 1, 2, 3, 9, 10, 11, 27, and 28 definitely provide that the product produced contains a waste fabric component which is *shredded*. While claims 25 and 26 do not definitely describe the resulting product as containing *shredded* saturated felt, the steps of the process in treating the saturated felt are such that it is shredded. [Italics quoted.]

Claim 4 is substantially the same as claim 3 except for the step of forming the warm plastic mass into form, which is described as *extruding*. [Italics quoted.]

Claims 8, 12, and 13 include in the process the use of *mineral surfaced* roofing scrap. Claim 8 provides for a measured quantity of *mineral surfaced* roofing scrap and a measured quantity of *non-mineral surfaced* roofing scrap. Claim 12 provides for the use of saturated and coated felt surfaced with *granular* material. Claim 13, like claim 8, includes the use of both *granular* and non-granular *surfaced asphalt roofing scrap*. [Italics quoted.]

It will be noted that claim 4 is placed in a group by itself and calls for the step of extrusion. This claim was rejected by the Examiner on the issue of an interference, and appellant in this court moved to dismiss his appeal as to this claim, and the motion will be granted.

The rejection by the Examiner of the other claims here on appeal is in the following language:

Claims 1 to 3 are rejected as unpatentable over the patent to Woodley which discloses the process recited. The patentee discloses the process in which asphalt saturated felt scrap • • • is agitated in a mixer while in a semi-solid condition and then formed on rolls. It is not seen that asphalt in a semi-fluid condition differs from asphalt in a semi-solid condition. Woodley carries out his agitating step with heated material. It is obvious to heat the mixer to prevent the material from cooling.

• • • • • • • •

Claim 8 is rejected in the same way as claims 1 to 3. The recitation of the addition of mineral surfaced scrap is not seen to alter the process.

Claims 9 to 13 are rejected in the same way as claims 1 to 3. Whether the material is first heated to its maximum temperature and then agitated or the temperature gradually raised during mixing is not seen to be anything more than a matter of choice.

• • • • • • • •

Claims 25 and 26 are rejected as fully met by the patent to Woodley.

• • • • • • • •

Claims 1 to 4, 8 to 14, and 25 to 28 are further rejected as unpatentable over the patent to Weiss or the patent to Tucker. Each of these patentees discloses a process in which a mixture of fibrous materials and asphalt is mixed while the asphalt is in a fluid or semi-fluid state and then formed into articles. Tucker discloses this process as carried out with previously saturated material. It is not seen that the process is altered by substituting saturated felt scrap for the fibrous matter of the patentees. Weiss discloses the extruding step.

Claims 1 to 4, 8 to 14, and 25 to 28 are further rejected as unpatentable over the patent to Woodley in view of either the Weiss or Tucker patent. No invention is seen in carrying out Woodley's mixing step with fluid material as taught by Tucker and Weiss. It is obvious from the art cited that either method of mixing might be used.

Upon appeal to the Board of Appeals, it, in part, said:

Claims 1, 2, and 3 stand rejected on the Woodley patent. This patent discloses forming a fibrous composition by adding residuum oil to asphalt. The mixture is heated to 400° F. to liquefy it. Fibrous material or rubber roofing scrap or tarred felt scrap is added to the hot mixture. The mixture is cooled somewhat by this addition. The entire mass is kneaded in a mixing machine so that each fiber is coated and a homogeneous product is obtained. The product may be rolled into a sheet.

These claims call for heating to a temperature sufficient to melt asphalt to a semi-fluid or fluid consistency. The patentee kneads the mixture while it is in a semi-fluid condition. It is believed that the patentee would obtain substantially the same action on the fibers of the scrap by his kneading operation of the semi-liquid material as applicant obtains. We fail to see any patentable distinction between what is defined by these claims and what the patentee discloses.

* * * * * * *

Claims 8–14, 25, and 26 stand rejected on the Woodley patent for the same reasons as claims 1, 2, and 3. Many of these claims are quite broad. Claim 12 refers to felt scrap surfaced with granular material and claims 8 and 13 refer to scrap collected from both granular and non-granular surfaced asphalt roofing. It is our view that all of these claims are unpatentable over the Woodley patent. It is believed that the recitation of the particular type of scrap mentioned in claims 8, 12, and 13 involves nothing of a patentable distinction over this patent because the patentee contemplates using rubber roofing scrap or tarred felt scrap as a source of the fibrous material. *It is quite customary to have granular material applied to rubber roofing and no doubt the patentee intends to include this type of roofing as part of his invention.* [Italics ours.]

All of the claims have also been rejected on Weiss in view of Tucker or on Woodley in view of Weiss or Tucker. In the Weiss and Tucker patent the fibrous material is not obtained from roofing scrap. However, in view of Woodley it would not be inventive to use roofing scrap instead of fibrous material mentioned by Weiss and Tucker. It seems to us that the claims are so broadly drawn that there is clearly no patentable distinction specified in them over these patents.

It might be added in connection with claims 9, 12, and 13 that they do not involve the use of heat in treating the scrap. Hence they are very broad.

The above decision of the Board was rendered on September 9, 1940. Request for reconsideration was made on October 1, 1940, the Board being requested to reconsider the claims involved in the appeal and also for further information in accordance with rules 66 and/or 76 as set forth in the decisions of *In re Eliot*, 76 F.(2d) 309; *In re Lewis*, 96 F.(2d) 1009; and *In re Greider et al.*, 46 U. S. P. Q. 146.

The further information was requested concerning the foregoing italicized statement in the Board's opinion. On October 22, 1940, the Board rendered a decision on reconsideration, and concerning the request for information with respect to the statement that it was quite customary to have granular material applied to rubber roofing said:

Applicant thinks that our statement that it is quite customary to have granulated material applied to roofing needs proof. This has been the well-known practice, at least as far back as 1910, and perhaps prior to that time. Such a statement would appear to need no proof.

Appellant on November 14, 1940, petitioned the Commissioner to require compliance with rules 66 and/or 76, and he stated in his decision that:

It appears that applicant's request for an affidavit under rules 66 and 76 should have been complied with. However, this petition was filed after applicant had filed a notice of appeal to the United States Court of Customs and Patent Appeals, together with a statement of his reasons for appeal. Under these circumstances the Commissioner is without jurisdiction to consider the petition (*Ex parte Colin*, 519 O. G. 797). The petitioner's arguments as to alleged distinctions between the situation in the Colin case and that presented here have been carefully considered, but no reason has been found which would justify a holding that the Commissioner has jurisdiction to consider the present petition.

The Board also in a decision on this question stated that since the said appeal to this court had been filed (on October 24, 1940) it likewise had no jurisdiction to consider the question.

[1] Appellant has assigned error against the action of the Board in that:

5. There was error in holding it quite customary to have granular material applied to rubber roofing, without support of such statement of fact under the provisions of rules 66 or 76.

On this phase of the case it is our view that the Board could well have cited patents contained in the record before it, which is now before us, showing that it was old and customary to have granular material applied to rubber roofing. Woodley, as of October 12, 1915, points out that

the sheet may if desired be coated with a superficial layer of suitable bituminous material, such surface receiving in some cases a finishing coating of soapstone, talc, sand, gravel, etc.

The same is true of the MacDonald patent, No. 1,831,779, November 10, 1931, which was then before the Board. The Fischer patent, No. 2,204,533, June 11, 1940, which contains the allowed article claims involved in the application of which the instant application is a division, also called attention to the fact that:

* * * Frequently the scrap will be surfaced with subdivided mineral material, such as mica, slate particles, rock particles, or even small pebbles as a result of cutting the tabs from sheet material which has been surfaced with such subdivided mineral substance.

As we construe the language used by the Board it did not intend to convey the impression that the limitation in claims 8, 12, and 13 with reference to the starting material mentioned in the claims being composed of both granular and non-granular surfaced asphalt roofing scraps was met by common knowledge of what was customary with reference to applying granular material to rubber roofing. It is our view that the Board merely meant to say that rubber roofing which contained granular material as a surface coating was commonly known and that Woodley evidently intended to include this kind of roofing scrap in his invention. So construing the language of the Board, we are of the opinion that in view of the instant record which was before the Board, disclosing the subject matter the Board had under consideration, it was not necessary for it to submit affidavits or furnish references showing the same, and while the Board might well have pointed this fact out to the instant applicant, we see no reversible error in its failure to do so.

The Board's decision which we are reviewing affirms that of the Examiner in rejecting claims 1, 2, and 3 on the Woodley patent. It points out, as is shown in the hereinbefore quoted part of its decision that in that patent there is disclosed the forming of a fibrous composition by adding residuum oil to asphalt. Woodley is dealing with scrap material. The Board points out that the mixture is heated to 400° F. to liquefy it. Woodley's fibrous material or roofing scrap or tarred felt scrap is made a part of the hot mixture. The mixture is cooled somewhat by the addition of the scrap to the hot liquid. The entire mass is kneaded in a mixing machine so that each fiber is coated and a homogeneous product is obtained. The patent discloses that this product may then be rolled into a sheet. The Board said:

These claims call for heating to a temperature sufficient to melt asphalt to a semi-fluid or fluid consistency. The patentee kneads the mixture while in a semi-fluid condition. It is believed that the patentee would obtain substantially the same action on the fibers of the scrap by his kneading operation of the semi-liquid material as applicant obtains. We fail to see any patentable distinction between what is defined by these claims and what the patentee discloses.

We concur in this conclusion, that is to say, the slight differences in the process of the applicant would not amount to invention over that of Woodley.

Claims 8 to 14, inclusive, and 25 and 26 were also rejected by the Examiner on Woodley for the same reasons as claims 1, 2, and 3. The Board said:

* * * Many of these claims are quite broad. Claim 12 refers to felt scrap surfaced with granular material and claims 8 and 13 refer to scrap collected from both granular and non-granular surfaced asphalt roofing. It is our view that all of these claims are unpatentable over the Woodley patent. * * *

We think the Board was right in this conclusion. It did not involve invention to apply appellant's method, which did not differ inventively from that of Woodley, to felt-surfaced scrap or to granular-surfaced scrap. The method was not changed by applying it to a somewhat different material. As we said in *In re Williams*, 24 C. C. P. A. (Patents) 861, 87 F.(2d) 499, 481 O. G. 216. "A process does not become patentably new merely because it is applied to a different object or material. [Citing cases.]"

The Board approved the Examiner's rejection of all the claims on Weiss in view of Tucker, or on Woodley in view of Weiss or Tucker, and we refer to this subject matter with a view of considering the Board's action in connection with claims 27 and 28. The Examiner in rejecting the claims on Weiss or Tucker points out:

* * * Each of these patentees discloses a process in which a mixture of fibrous materials and asphalt is mixed while the asphalt is in a fluid or semi-fluid state and then formed into articles. Tucker discloses this process as carried out with previously saturated material. It is not seen that the process is altered by substituting saturated felt scrap for the fibrous matter of the patentees. Weiss discloses the extruding step.

We agree with the Examiner in this particular, as did the Board, and it is not necessary, therefore, for us to consider in detail the further rejection of claims 27 and 28 on Woodley in view of Weiss or Tucker. The Examiner, however, in concluding the rejection of certain claims, including 27 and 28, on Woodley in view of Weiss or Tucker, said:

* * * It is obvious from the art cited that either method of mixing might be used.

With this conclusion we agree.

From the foregoing it follows that none of appellant's appealed claims define invention over the cited prior art.

One further argument of appellant's counsel, on a subject matter covered by his reasons of appeal, is to the effect that the Board erred in not explaining the seeming inconsistency in not allowing the method claims after having allowed the article claims. It appears that the prior art here involved was not submitted to the Board of Appeals in Fischer's divisional case where the article claims were allowed, and we deem it unnecessary to go into a lengthy discussion as to the reasons for allowing certain article claims. It is sufficient to say as we did in *In re McCabe*, 22 C. C. P. A. (Patents) 877, 74 F.(2d) 758, 455 O. G. 265.

We think the issue before us must be determined not by comparing the rejected claims with the allowed claims for points of similarity or dissimilarity, but by a comparison of them with the prior art cited.

Similar rulings have been made by this court on many occasions, and it is not necessary here to cite the decisions in which they appear. We think that the Board made a satisfactory answer to this contention of appellant and we find no reversible error on the part of the Board in this respect.

[2] The appeal as to claim 4 is dismissed, and the decision of the Board of Appeals, affirming that of the Examiner as to the remaining claims, is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE KESLING

No. 4,531. Decided December 29, 1941

[124 F.(2d) 193]

1. CLAIMS—CONSTRUCTION.
   The words "longitudinal movements" in claims reciting operating means connected for longitudinal movements construed as meaning longitudinal with respect to the operating means, since, unless this meaning be given thereto, the words are ambiguous because not related to any point or plane.
2. APPEAL—RULE 139.
   Rule 139 requires the Board, when it finds a new ground for the rejection of claims, to make a statement to that effect with its reasons for so holding, and merely stating that the difference between a patented structure and that disclosed and claimed by applicant is of no patentable moment would not be a compliance with said rule.
3. PATENTABILITY—GEAR SHIFTING MECHANISM.
   Certain claims to gear shifting mechanism *Held* patentable over the prior art, but other claims *Held* unpatentable.

APPEAL from the Patent Office. Modified.

Mr. John D. Rippey for Kesling.

Mr. W. W. Cochran (*Mr. Clarence W. Moore* of counsel) for the Commissioner.

LENROOT, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming a decision of the Examiner rejecting, for want of patentability in view of the cited prior art, claims 21, 30, 39 to 44, inclusive, 46, 47, and 49 of appellant's application for a patent. Claims 1, 3, 6, 8, 10, and 48 were allowed.

Claims 21, 44, and 46 are illustrative of the appealed claims and read as follows:

21. Gear shifting mechanism of the character described comprising selective shifter elements, an actuator for selectively engaging and shifting said elements, a power device connected to said actuator for moving said actuator to shift the selected element, a follow-up valve mechanism for controlling said power device, and operating means connected to a part of said valve mechanism and to said actuator for longitudinal movements for regulating said valve mechanism and also for assisting said power device to move said actuator.

44. Gear shifting mechanism of the character described comprising selective shifter elements, actuator means selectively engageable for shifting said elements respectively, a power means for imparting shifting movements to said actuator means, valve means for controlling the energization of said power means, a device connected to said actuator means and to said valve means for finally regulating said valve means and movable to assist said power means to move said actuator means, and an operating means connected to said valve means and to said device in a manner to engage said actuator means with the selected shifter element and to initially regulate said valve means and thereafter move said device as aforesaid.

46. Gear shifting mechanism of the character described

comprising selective shifter elements, an actuator for selectively engaging and shifting said elements, a power device connected to said actuator for moving said actuator to shift the selected element, connections for selectively engaging said actuator with said elements and for controlling energization of said power device and also for assisting said power device to shift the selected element or for completely effecting said shift when said operating means fails to energize said power device, and manual means for operating said connections.

The references relied upon are: Moorhouse, 1,993,015, March 5, 1935; Imblum, 1,258,337, March 5, 1918; Sanford et al., 2,113,860, April 12, 1938.

As may be gathered from a reading of the illustrative claims above quoted, appellant's application relates to mechanism for selectively shifting the gears of an automobile, whereby the manual operation normally is confined to effecting valve selection and regulation only, after which power means is operative to actually perform the mechanical function of shifting the gears. While the mechanism involved in appellant's structure is difficult to describe without the aid of drawings of a size not possible here, we will attempt to describe it sufficiently for the purposes of this opinion. The customary gear case is described, enclosing the usual gears and two shifting yokes mounted on slide rails. These yokes are interlocked and each has a notch which may be engaged by a block which is mounted on a spindle journalled in the gear case cover. This spindle is adapted to be rocked laterally of the gear case and moved longitudinally thereof. It is understood that when the spindle is rocked to one side the block will engage the notch of one of the yokes and be free of the other, and be ready to move the yoke engaged longitudinally of the gear case in one direction or the other. When the spindle is rocked to the other side, the other yoke is similarly engaged, leaving the remaining yoke free. The spindle projects through one end of the gear case cover into a cylinder which is mounted on the outside of the gear case. On the end of the spindle projecting into said cylinder there is mounted a piston which is free to rotate about the spindle, but which is so mounted thereon that no longitudinal movement with respect to the spindle is possible. This piston divides the cylinder into two chambers. A tube leads out of the cylinder from each chamber, and these tubes are utilized, as hereinafter shown, for creating a partial vacuum in one or the other of said chambers, and for opening the other chamber to atmospheric pressure. It will thus be seen that movement of this piston longitudinally of the cylinder must result in similar movement of the spindle within the gear case, and consequent movement of the block and whichever of the two shifting yokes is engaged therewith. A curved tube projects from the other end of the gear case cover. The end of this tube away from the gear case is secured to what is designated a supporting member, generally cylindrical in shape. Within this curved tube is a flexible shaft, one end of which is secured to said spindle, the other end of the flexible shaft being secured to a valve chest. The valve chest is mounted for rocking movement and for movement longitudinal of itself within the supporting member; the valve chest has cylindrical grooves which serve as ports, and access to these ports is secured by means of tubes which project through a slot in the supporting member. One of these tubes serves to limit the extent of the rocking movement of the valve chest by coming into contact with one or the other of the side walls of the aforementioned slot in the supporting member. The other end of the supporting member is secured to the instrument panel, and within this end of the supporting member there is mounted an operating shaft; this operating shaft projects through the instrument panel and there is attached at this end of said shaft an operating lever; the other end of the operating shaft is made integral with a valve member within the valve chest above referred to. The operating shaft is adapted to be rocked laterally and moved longitudinally of itself within the supporting member. A neutral groove in the operating shaft is engaged by a spring-pressed ball mounted in the wall of the supporting member, and this serves to hold the operating shaft in a neutral position. Stop-notches are also provided on the operating shaft to engage this spring-pressed ball, and said notches serve to limit the extent of longitudinal movement of the operating shaft and, of course, of the valve member. Means such as rubber tubes are used to connect the chambers of the cylinder hereinbefore described with the ports of the valve chest, and these ports are so arranged as to alternately create a condition of partial vacuum in one chamber while opening the other chamber to atmospheric pressure, depending upon the direction in which the valve member is rocked by the operating handle and further upon the direction in which longitudinal movement is imparted to the valve member by the operating shaft.

The method of operation may be summarized as follows. When the operator, by means of the operating handle, rocks the operating shaft, the spring-pressed ball is disengaged from the neutral groove, and one forward stop-notch and one rearward stop-notch are brought in line with the spring-pressed ball, there being a forward and rearward stop-notch in line on each side of the operating shaft. The rocking motion thus imparted to the flexible shaft causes the spindle to be rocked in the gear case cover, and the block is caused to engage the notch of the appropriate yoke for making the shift intended. Movement of the operating shaft longitudinally with respect to itself is then imparted to said shaft by the operator; this places the valves in communication with the appropriate ports, following which a pressure differential is created on opposite sides of the piston in the cylinder which results in movement of the piston (and spindle) in the proper direction. From this point, the shifting of the yoke and gears is carried on by the power imparted to the spindle through movement of the piston. It will be seen that this longitudinal movement of the spindle is accompanied by a similar longitudinal movement of the flexible shaft, the valve chest, and the valve member and operating shaft; the movement of the operating shaft stops when the spring-pressed ball engages the stop-notch in the supporting member, after which movement of the valve chest will continue until the ports of the valve are out of register, thus stopping further movement of the piston, spindle, and yoke, at which point the desired shift will have been completed.

As hereinbefore noted, the operating handle and shaft normally are used merely to select and regulate the valve mechanism, and the further function of shifting the gears is thereupon automatically accomplished by the power means described. If for any reason there is a failure of power, the gears may be shifted manually to the same position, the power necessary to actually move the yoke and shift the gears being supplied to the operating shaft by the operator, and thence through the flexible shaft to the spindle and shifting yoke. In other words, the operator will have to use greater force when moving the operating shaft longitudinally of itself after rocking the same out of neutral position.

The reference patent to Moorhouse, No. 1,993,015, was relied upon principally by the Patent Office tribunals in the rejection of the claims on appeal. This patent is directed toward the accomplishment of the same functions as is the application of appellant. Moorhouse shows a conventional automobile gear case with two shifting forks for engaging said gears in desired ratios, just as in appellant's structure. Manual means is provided for pre-setting a valve element controlling a power means, and preselecting which of the shifting forks will be operative. The power means of Moorhouse consists of a cylinder in which a piston head is mounted; the piston shaft of the Moorhouse power means is not directly connected to the gear shifting means, as in appellant's structure, but is connected thereto by a system of linkage. By means of the valve element in Moorhouse above referred to, suitable conditions of atmospheric pressure and partial vacuum are caused to exist in the chambers into which the cylinder is divided by the piston head, thus resulting in appropriate movement of the piston head and, consequently, of the shifting fork for completion of the shifting. Moorhouse contemplates the normal use of manual power for regulating the valve mechanism which controls his power means, and for selecting the fork to be engaged. Thereafter the functioning of his power means carries through the actual shifting operations. The operating means shown by Moorhouse, however, is a gear shifting lever of the type which is mounted in the top of the gear case and is adapted to be laterally tilted from neutral position, after which the lever is moved forward or backward as desired. His lever is pivoted in a bearing in the top of the gear case, and when the operating end of this lever is moved forward, for example, the lever actually is rotated about the pivot at the point where it is mounted in the gear case cover or tower. In the words of Moorhouse, "the gear shift lever is then rocked about the pivot pin * * * longitudinally of the transmission." Furthermore, the valve employed by Moorhouse is of a different type than that shown by appellant. It will suffice to say that, whereas in appellant's valve there are two movable parts, the valve chest and the valve element, the body of the Moorhouse valve is fixed in position. In appellant's valve the valve element is first moved into operative position with respect to the ports in the valve chest; the follow-up action consists of the valve chest itself being moved ahead with respect to the valve element until the ports in the valve chest are out of registry with those of the valve element, thus stopping further movement of the piston. In Moorhouse the valve element is moved by the operating means to a position whereby the motor is energized; thereafter movement of the piston is caused by a system of linkage to reverse the initial movement imparted to the valve element, thus restoring it to its initial position and stopping further movement. Finally, Moorhouse also contemplates and shows structure whereby the operations involved in shifting gears can be wholly executed by manual power in case the power means itself for any reason is not functioning. This is brought about by means of a lost-motion connection between the two portions into which his gear-shifting lever is divided within the gear-shifting tower, these portions being designated by him respectively as the "control portion" and the "operating portion" of his lever. The above is a general outline of the Moorhouse structure, but it is believed to be adequate for the purposes of this case. It will be observed that while the objective is the same in the Moorhouse patent as in appellant's application, the structure employed is quite different in the two.

The reference patents to Sanford and to Imblum were cited in connection with Moorhouse in meeting certain claims which involve details of appellant's valve assembly. We do not believe any extended description of these patents would be helpful, and it will suffice to say that in Sanford a follow-up valve structure is shown in which there are two movable elements whereby energy is initially supplied to a power means by moving the inner element of the valve structure into operative position; consequent motion of the piston within the power means then carries the other element of the valve with it until it restores the initial condition relative to the inner movable element, whereupon further movement is stopped. Sanford's valve functions in a manner similar to appellant's. Imblum's structure is shown in connection with the operation of a reversing gear for steam locomotives, and includes a follow-up valve in which there are also two movable elements. One distinction between Imblum and Sanford, however, is that upon the entry of pressure into one chamber of Imblum's power means, he stops further motion by introducing an equal pressure into his other chamber, thus creating a balanced pressure condition on the two sides of the piston. The valve mechanism itself, however, functions in substantially the same way as that of Sanford in so far as the two-element feature is concerned.

For the purposes of our discussion we may divide the claims into three classes, the first class embracing claims 21, 30, and 49, the second class embracing claim 46, and the third class embracing claims 39 to 44, inclusive, and claim 47.

We will first consider claims 21, 30, and 49. The Examiner placed in one group claims 21, 30, and 46, and apparently assumed that each of said claims contained the element of operating means connected to a part of the valve mechanism and to the actuator for longitudinal movements for regulating the valve mechanism. In this the Examiner was mistaken with respect to claim 46, for this claim does not embrace such element, but claim 49 has such an element. Evidently the Examiner inadvertently omitted claim 49 from the first group selected by him.

In the statement of the Examiner we find the following:

> Rejection of Claims 21, 30, and 46:
> These claims were finally rejected as fully met in terms by Moorhouse. Applicant has urged that the control lever 27, being pivoted at 32, is not mounted for "longitudinal movements", with which the Examiner is inclined to disagree for the reason stated in the final rejection which is as follows:
> "The shift lever 27 of Moorhouse is similar to the conventional shifting mechanism used on some vehicles, which lever may be moved transversely of the plane passing through shafts 14 and 15 in order to select the proper shift rail 22 or 23.
> "Actual shifting of the rails takes place only when the top of the lever is moved fore and aft in a plane parallel to the first mentioned plane; or in other words, longitudinally with respect to the main axis of the vehicle and transmission assembly. While the shift lever 27 does not move bodily, the movement discussed above is believed to satisfy the terms of the claims."
> • • • • •
> It is apparent that the mechanism of Moorhouse fully anticipates the terms of the claims; hence, the claims are unpatentable. Attention is again respectfully directed to the specification of Moorhouse wherein the term "longitudinally" has the same meaning as applied in the claim, supra. It is therefore urged that the rejection of claims 21, 30, and 46 on Moorhouse be affirmed.

The Board of Appeals did not specifically refer to the holding of the Examiner respecting longitudinal movements of the operating means, but impliedly agreed with him that the patent to Moorhouse disclosed such movements. The Board, however, did correctly describe the gear shifting lever of Moorhouse as capable of being moved longitudinally with respect to the axis of the vehicle.

[1] It is appellant's contention that the Examiner and the Board misinterpreted the element above described, found in claims 21, 30, and 49. It is his contention that the longitudinal movements embraced in said claims clearly mean that the operating means is movable longitudinally with respect to itself, and not with respect to some other part or element not referred to in the claims.

We are in agreement with this contention. Unless the words "longitudinal movements" in the claims mean longitudinal with respect to the operating means, they would have no meaning at all without the aid of the specification, for any movement of such means would be longitudinal with respect to some part of the vehicle.

Unless the meaning contended for by appellant be given to said words, they are ambiguous because not related to any point or plane, and in such case it is proper to resort to appellant's specification to ascertain the proper construction. *In re Phelps et al.*, 18 C. C. P. A. (Patents) 1036, 47 F.(2d) 387, 409 O. G. 289.

An examination of appellant's specification clearly shows that the longitudinal movements referred to in the claims are movements longitudinal with respect to the axis of the operating means, and in no other way could appellant's structure accomplish the result secured by him.

There is no specific holding of the Board that the longitudinal movements of Moorhouse are equivalent to the longitudinal movements disclosed and claimed by appellant. The decision of the Board states:

> It is obvious that the Moorhouse device differs greatly from appellant's structure although both devices apparently accomplish the same result. The Examiner has rejected claims 21, 30, and 46 as being fully met in terms by the patent to Moorhouse. We are of the opinion that this language does not read on the Moorhouse structure, but we are of the opinion that the difference is not of patentable moment. Appellant uses as his actuator a sliding bolt device which is engaged directly by the hand. The patent shows a pivoted lever which has some mechanical advantages over appellant's actuator, but as stated by the Examiner, appellant's type of actuator is substantially shown in the other references cited. The Examiner has gone to considerable trouble to show how the structure disclosed in Moorhouse could be combined with the devices shown in the patents to Imblum and Sanford so as to meet all of the appealed claims. We believe that this combination of references is a fair one and the decision of the Examiner is therefor affirmed.

[2] If the Board intended to place the rejection of claims 21 and 30 upon a ground other than that upon which said claims were rejected by the Examiner, it failed to comply with rule 139 of the Rules of Practice in the United States Patent Office, which requires the Board, when it finds a new ground for the rejection of claims, to make a statement to that effect with its reasons for so holding. Merely stating that the differences between the Moorhouse structure and that disclosed and claimed by appellant is of no patentable moment surely would not be a compliance with said rule if such statement was intended to be regarded as a new ground of rejection of claims 21 and 30. With respect to claim 46, as hereinbefore noted, no longitudinal movements are embraced therein.

While the quoted language of the Board is very general, we are of the opinion that the statement that the difference between the structure of Moorhouse and that disclosed and claimed by appellant "is not of patentable moment" refers to the structure specifically referred to in the latter part of the quotation, and that the Board did not intend to disagree with the Examiner as to his construction of the term "longitudinal movements" in claims 21 and 30, which construction is also applicable to claim 49. Hence we do not think that the Board intended to find any new ground of rejection of claims 21 and 30, and the Solicitor for the Patent Office before us does not so contend.

Therefore the question of whether there is no patentable distinction between the longitudinal movements disclosed by Moorhouse and those disclosed and claimed by appellant is not before us for consideration. The only question upon this branch of the case is the construction to be given to the words "longitudinal movements" in claims 21, 30, and 49.

[3] We are of the opinion that the Examiner misconstrued this term and his construction was not disapproved by the Board; and inasmuch as we hold that the longitudinal movements of the operating mechanism for regulating the valve mechanism, etc., disclosed and claimed by appellant, are not disclosed in the Moorhouse patent, the decision of the Board of Appeals respecting claims 21, 30, and 49 should be reversed.

With respect to claim 46 we are of the opinion that it was properly rejected upon Moorhouse alone, for the terms of the claim are fully met by his disclosure.

With respect to the remaining claims, 39 to 44, inclusive, and claim 47, each of said claims embraces a follow-up valve structure in which there are two movable elements, which valve structure is not disclosed by the Moorhouse patent; but, as hereinbefore stated, such a valve structure is disclosed in each of the patents to Sanford et al. and to Imblum.

It was the view of the Examiner and the Board of Appeals that it would not involve the exercise of the inventive faculty to combine the Moorhouse structure with the devices shown in the patents to Sanford et al. and to Imblum so as to meet these claims.

Whether such combination would be obvious to one skilled in the art is a highly technical question. That the Moorhouse structure would require some modification to effect such substitution is apparent, but that is immaterial if such modification would be obvious to one skilled in the art. We are not convinced that the Patent Office tribunals erred in holding that the combination referred to would be obvious to one skilled in the art.

Appellant's counsel stresses the statement in the decision of the Board that

> "The Examiner has gone to considerable trouble to show how the structure disclosed in Moorhouse could be combined with the devices shown in the patents to Imblum and Sanford so as to meet all of the appealed claims."

His brief states:

> The disclosures of the reference patents do not constitute proper ground for the rejection of the appealed claims because the basic reference (Moorhouse) "differs greatly" from appellant's structure, such great differences remain after the attempted substitutions, it required "considerable trouble" by the Examiner to "show how" the substitutions could be effected, and such substitutions are unobvious and are not disclosed by the references.

We think appellant's counsel has not properly construed the statement of the Board above quoted respecting "considerable trouble" by the Examiner. There is no indication in the Examiner's statement that he had any difficulty in combining the references, and when the Board stated that the Examiner had gone to "considerable trouble" we think it meant only that the Examiner had taken pains in his statement to explain how the structures shown by the patents could be combined.

For the reasons stated herein, the decision of the Board of Appeals is reversed with respect to claims 21, 30, and 49, and the decision is affirmed with respect to claims 39 to 44, inclusive, and claims 46 and 47.

Modified.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,521,575, H. Wittemeier, Filter for purifying air, D. C., N. D. Ohio, E. Div., Doc. 20891, *American Air Filter Co., Inc.*, v. *Air-Maze Corp.* Order sustaining motion of defendant for summary judgment Mar. 2, 1942.

1,525,328, J. E. Sheaffer, Refractory material, filed Feb. 2, 1942, D. C., W. D. Pa., Doc. 1813, *F. J. McClaskey* v. *Harbison-Walker Refractories Co.*

1,543,599, F. R. Chester, Leaf turner, filed Feb. 7, 1942, D. C., W. D. Pa., Doc. 1825, *Gardner Displays Co.* v. *Gimbel Bros., Inc., et al.*

1,544,172, A. Perkins, Sorting and classifying of flat sheets, tallies, cards, etc., D. C. Mass., Doc. 142, *The McBee Co.* v. *E. L. Leavitt.* Consent order on mandate dissolving injunction Feb. 3, 1942.

1,615,807, J. Bosch, Striping attachment for knitting machines, C. C. A., 4th Cir., Doc. 4881, *Scott & Williams, Inc.*, v. *Whisnant Hosiery Mills.* Decree affirming judgment of district court Feb. 17, 1942.

1,783,995, C. Berg, Motor vehicle, filed Mar. 3, 1942, D. C., E. D. Mich., S. Div, Doc. 3265, *Independent Motor Wheel Corp.* v. *Thronton Tandem Co., Inc.*

1,829,800, M. W. Howard, Edge setting machines, appeal filed Feb. 20, 1942, C. C. A., 1st Cir., Doc. 3758 and 3759, *National Development Co.* v. *Lawson-Porter Shoe Machinery Corp.*

1,830,199, G. D. Gardner, Artichoke trimming machine, D. C., N. D. Calif. (San Francisco), Doc. 21918–S, *Barron-Gray Packing Co.* v. *Artichokes, Ltd., Inc.* Consent judgment Feb. 24, 1942.

1,848,398, C. W. Towt, Apparatus for preventing frost damage to vegetation, D. C., S. D. Calif., C. Div., Doc. 687–RJ, *The Towt Co. et al.* v. *C. Salsberry et al.* Dismissed for lack of prosecution Feb. 3, 1942.

1,881,345, J. Beatty et al., Coating device, filed Feb. 19, 1942, D. C., N. D. Calif. (San Francisco), Doc. 22089–W, *H. M. Hoyt, Korktone Co.* v. *The DeVilbiss Co. et al.*

1,889,429, Wiegand & Venuto, Carbon black and process of making same, filed Feb. 4, 1942, D. C. Mass., Doc. 1782, *Binney & Smith Co.* v. *Godfrey L. Cabot, Inc., et al.*

1,905,202, S. Wolf, Collapsible dress form, filed Feb. 6, 1942, D. C., S. D. N. Y., Doc. 17231, *The Better Model Form Co., Inc.*, v. *J. R. Bauman Normal Model Form Co., Inc.*

1,917,634, M. R. Carpenter, Ice rink structure, filed Feb. 2. 1942, D. C., N. D. Tex. (Fort Worth), Doc. 356, *M. R. Carpenter* v. *Texas Ice Events, Inc., et al.*

1,924,963, C. O. Sherrill, Store D C. Mass., Doc. 563, *The Kroger Grocery & Baking Co.* v. *First National Stores, Inc., et al.* Patent held valid and infringed by First National Stores, Inc.; J. W. Gately Sons, Inc., has not infringed said patent Feb. 13, 1942. Decree of district court vacated. Decree pursuant to mandate Feb. 16, 1942.

1,944,930, H. C. Drake, Flaw detector, D. C., S. D. N. Y., Doc. 15/60, *Sperry Products, Inc.*, v. *Association of American Railroads et al.* Final judgment (notice Feb. 13, 1942).

1,984,916, G. E. Bullock, Velocipede frame construction, D. C., N. D. Ohio, E. Div., Doc. 19777, *The E. C. Brown Co.* v. *The Murray Ohio Mfg. Co.* Claims 8, 12, 14, 17, 18, and 24 held invalid; bill dismissed Feb. 27, 1942.

2,033,736, G. H. Perryman, Machine for making corn plasters, D. C., S. D. N. Y., Doc. 8/370, *Scholl Mfg. Co., Inc.*, v. *Foot Aid Products.* Dismissed for lack of prosecution Feb. 6, 1942.

2,079,236, F. W. Zipf, Marking tool, filed Feb. 4, 1942, D. C. N. J., Doc. 2002, *Roovers Bros., Inc.*, v. *E. H. Miller & Co.*

2,080,990, W. T. Weekley, Garment hanger for automobiles, D. C., N. D. Ga. (Atlanta), Doc. 2346, *The Rusticate Co.* v. *Shell Oil Co., Inc., et al.* Consent order of dismissal (notice Feb. 20, 1942).

2,118,468, T. G. Jungersen, Method of casting articles of intricate design and a product thereof, filed Feb. 11, 1942, D. C., E. D. N. Y., Doc. 2530, *T. G. Jungersen* v. *T. G. Salazza et al.*

2,155,106, F. W. Turnbull, Ice cream cones, filed Feb. 19, 1942, D. C., E. D. Tenn., S. Div., Doc. 405, *Turnbull Cone & Machine Co.* v. *McKesson Duff Drug Co. et al.*

2,177,545, J. H. Wright, Apparatus for making metal tubes, filed Feb. 19, 1942, D. C., S. D. N. Y., Doc. 16/219, *J. H. Wright* v. *Jackson Tube Co., Inc.*

2,207,078, J. Stuer, Transfer mechanism for looms, D. C. Mass., Doc. 1055, *J. Stuer* v. *G. E. Kilburn Mfg. Co. et al.* Consent decree as to W. H. Baker for the plaintiff for an injunction Feb. 19, 1942.

2,207,322, R. L. Long, Hanger for sliding doors, D. C., S. D. Calif., S. Div., Doc. 83, *R. L. Long* v. *I. Shafer et al.* Patent held valid and infringed Feb. 23, 1942.

2,228,314, V. L. Holmes, Balanced door construction, filed Feb. 14, 1941, D. C., S. D. Calif. (Los Angeles), Doc. 2068–Y, *V. L. Holmes* v. *Pacific Overhead Door Co.*

2,256,275, A. J. Boland, Enameling furnace, filed Feb. 12, 1942, D. C., N. D. Ohio, W. Div., Doc. 4734, *A. J. Boland* v. *The Toledo Porcelain Enamel Products Co.*

Re. 18,755, F. J. Day, Air conditioning means, filed Mar. 2, 1942, D. C., N. D. Calif. (Sacramento), Doc. 4444, *W. C. Phillips et al.* v. *F. T. Ramsey.*

Re. 18,841, J. Mayer, Hair waving method, filed Feb. 5, 1942, D. C. Del., Doc. 249, *The National Hairdresser's et al.* v. *The Philad Co.* Same, D. C., E. D. Mich., S. Div., Doc. 1932, *The Philad Co.* v. *Vincent Beauty Salon.* Dismissed without prejudice (notice Feb. 9, 1942). Doc. 1933, *The Philad Co.* v. *Little Flower Beauty Shoppe.* Dismissed without prejudice (notice Feb. 9, 1942). Same, D. C., N. D. Ohio, E. Div., Doc. 20285, *The Philad Co.* v. *Master Hair Shoppe, Inc.* Doc. 20297, *The Philad Co.* v. *Robert & Martin Hairdressers.* Doc. 20299, *The Philad Co.* v. *Alliance Beauty Shoppe.* Doc. 20301, *The Philad Co.* v. *F. Meck.* Doc. 20302, *The Philad Co.* v. *Arthur's Permanent Wave Shoppe.* Doc. 20304, *The Philad Co.* v. *The Smart Set Beauty Salon, Inc.* Doc. 20307, *The Philad Co.* v. *Christine Beauty Shoppe.* Doc. 20308, *The Philad Co.* v. *Fisher Beauty Shop.* Doc. 20309, *The Philad Co.* v. *Ardmore Beauty Shop.* Doc. 20314, *The Philad Co.* v. *Bert's Hairstyling Salon.* Doc. 20316, *The Philad Co.* v. *Andre Hair Stylist.* Doc. 20340, *The Philad Co.* v. *Wessex Beauty Shoppe.* Doc. 20357, *The Philad Co.* v. *Doroth's Beauty Shoppe.* Claims 3, 4, and 5 held valid and infringed, injunction Mar. 18, 1942, in each of above cases.

Re. 19,866, A. Epstein, Knitted cap, filed Feb. 16, 1942, D. C., S. D. N. Y., Doc. 17/277, *Epstein & Hammer, Inc.*, v. *Famous Knitwear Corp.*

Re. 20,333, J. C. Perrin, Paper towel dispenser, D. C., S. D. Calif. (Los Angeles), Doc. 1210–BH, *Towelsaver, Inc.*, v. *Ingram & Co. et al.* Consent judgment holding patent valid and infringed, injunction Feb. 16, 1942.

Re. 21,031, M. J. Schenk, Lubrication system for internal combustion engines, appeal filed Feb. 27, 1942, C. C. A., 2d Cir., Doc. —, *R. Picard* v. *United Aircraft Corp.*

Re. 21,229 (of 1,469,567), Whiting & Wadsworth, Container, D. C., Ind. (Indianapolis), Doc. 260, *Container Patents Corp.* v. *Stant Mfg. Co.* Decree ordering cause referred to Master Jan. 31, 1942.

Des. 75,425, H. P. Howlett, Plate, filed Feb. 26, 1942, D. C., W. D. Okla., Doc. 990, *The Ko-Cin-Ko Co.* v. *R. M. Scott.*

Des. 82,006, C. L. Stange, Emblem, D. C. Mass., Doc. 286, *W. M. Sexson et al.* v. *W. I. Cowlishaw, Inc.* Stipulation of dismissal without prejudice Jan. 16, 1942.

Des. 114,311, M. Turpan, Textile fabric, D. C., S. D. N. Y., Doc. 4/400, *Meadow Weaving Co., Inc.*, v. *Henrose Co., Inc., et al.* Dismissed as to Rosenthal, Cohen, Kaplow & Harnick; consent judgment as to remaining defendants (notice Feb. 7, 1942).

Des. 114,873, M. Massow, Dress ensemble, D. C., S. D. N. Y., Doc. 13/222, *Massow Frocks, Inc.*, v. *Al-Jean Frocks Co., Inc.* Stipulation of discontinuance (notice Feb. 18, 1942).

Des. 116,124, S. Novak, Dress ensemble, D. C., S. D. N. Y., Doc. 6/196, *Flora Dress Co.* v. *Dandy Dress, Inc.* Consent order of discontinuance (notice Feb. 2, 1942).

Des. 116,125, A. Ruchman, Dress, D. C., S. D. N. Y., Doc. 16/367, *Apex Dress Co., Inc.*, v. *Epstein Garment Co., Inc.* Consent order of discontinuance (notice Feb. 18, 1942).

Des. 116,808, P. Schlessel, Dress, D. C., S. D. N. Y., Doc. 6/383, *N. Y. Dress & Costume Co., Inc.*, v. *Blue Comet Dress Co., Inc.* Stipulation of discontinuance (notice Feb. 18, 1942).

Des. 117,773, M. M. Levine, Dress, D. C., S. D. N. Y., Doc. 7/97, *Mike Levine, Inc.*, v. *Rudelle Frocks Co.* Stipulation of discontinuance (notice Feb. 11, 1942).

Des. 119,318, P. Heit, Dress, D. C., S. D. N. Y., Doc. 13/177, *Weinberg, Weinberg & Alpern* v. *S. Schwartz & Bro.* Consent order of discontinuance (notice Feb. 10, 1942).

Des. 119,698, E. W. Freudenberg, Embroidered textile fabric, D. C., S. D. N. Y., Doc. 14/66, *Wingold Embroideries, Inc.*, v. *Amrein Freudenberg Co., Inc.* Stipulation of discontinuance (notice Feb. 11, 1942).

Des. 119,912, E. Breer, Dress, D. C., S. D. N. Y., Doc. 13/490, *Musman-Pincus, Inc.*, v. *Abrams & Norman, Inc.* Stipulation of discontinuance (notice Feb. 20, 1942).

Des. 120,872, W. O. Prouty, Flower bowl, D. C., S. D. Calif., C. Div., Doc. 1647 (BH)Y, *Metlox Mfg. Co.* v. *C. W. Fouri et al.* Consent decree holding patent valid and infringed, injunction Feb. 4, 1942.

Des. 121,554, S. Novak, Dress ensemble, D. C., S. D. N. Y., Doc. 11/103, *Flora Dress Co.* v. *H. H. Greenberg, Inc.* Stipulation of discontinuing action and counterclaim (notice Feb. 2, 1942).

Des. 122,661, E. S. Emsheimer, Textile fabric, D. C., S. D. N. Y., Doc. 11/213, *E. S. Emsheimer* v. *Joroco Silk Corp.* Stipulation of discontinuance (notice Feb. 17, 1942).

Des. 124,485, F. M. Burns, Dress, D. C., S. D. N. Y., Doc. 12/268, *Weinberg, Weinberg & Alpern* v. *S. Schwartz & Bro.* Consent order of discontinuance (notice Feb. 10, 1942).

Des. 124,839, S. Holstein, Button, D. C., S. D. N. Y., Doc. 13/175, *Sterling Button Co., Inc.*, v. *Warsaw Button Co., Inc.* Consent judgment (notice Feb. 9, 1942).

Des. 125,248, D. W. Price, Dress, D. C., S. D. N. Y., Doc. 13/200, *Price-Schlesinger, Inc.*, v. *B. Fox.* Stipulation of discontinuance (notice Feb. 4, 1942).

Des. 125,535, S. Ruchman, Dress, D. C., S. D. N. Y., Doc. 13/207, *Apex Dress Co., Inc.*, v. *Al-Jean Frocks Co., Inc.* Consent order of discontinuance (notice Feb. 18, 1942).

Des. 125,538, M. Fields, Dress ensemble, D. C., S. D. N. Y., Doc. 13/85, *Parisian Mfg. Co., Inc.*, v. *Casanova Frocks, Inc.* Consent judgment (notice Feb. 3, 1942).

Des. 126,278, C. Charles, Dress, D. C., S. D. N. Y., Doc. 13/452, *Sandler & Lane, Inc.*, v. *Modern Juniors Lou Galowitz & Co., Inc.* Final judgment (notice Feb. 16, 1942). Doc. 13/453, *Sandler & Lane, Inc.*, v. *Neufeld-Furst & Co., Inc.* Consent order of discontinuance (notice Feb. 18, 1942).

Des. 126,350, A. Ruchman, Dress, D. C., S. D. N. Y., Doc. 13/397, *Apex Dress Co., Inc.*, v. *Blue Gem Dresses, Inc.* Consent judgment (notice Feb. 18, 1942).

Des. 129,210, I. Buchholz, Dress, D. C., S. D. N. Y., Doc. 16/323, *Friedman & Buchhols Dress Co.* v. *M. Sweybill, Inc.* Consent order of discontinuance (notice Feb. 13, 1942). Doc. 16/377, *Friedman & Buchhols Dress Co.* v. *Puritan Skirt & Dress Co.* Consent order of discontinuance (notice Feb. 11, 1942).

Des. 130,693, A. Lehmann, Embroidered textile fabric, filed Feb. 11, 1942, D. C., S. D. N. Y., Doc. 17/266, *Lehmann & Naegeli, Inc.*, v. *Alice Brooks, Inc.*

Des. 130,862, J. H. Abt, Textile fabric, D. C., S. D. N. Y., Doc. 17/50, *Derring Milliken & Co., Inc.*, v. *Allen L. Goldfine, Inc.* Dismissed (notice Feb. 19, 1942).

Des. 131,112, I. Buchholz, Dress, filed Feb. 10, 1942, D. C., S. D. N. Y., Doc. 17/256, *Friedman & Buchhols Dress Co.* v. *Ben Fox Dress Co.* Doc. 17/257, *Friedman & Buchhols Dress Co.* v. *Graceful Lady Dresses, Inc.*

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 2,191,996, B. H. Shoemaker and C. M. Loane, Lubrication oil, decided April 25, 1942, claims 3 and 4.

Pat. 2,216,040, H. L. Mead and E. J. Maust, Beneficiation of phosphate rock by froth flotation, decided April 18, 1942, claim 1.

Pat. 2,237,263, R. Pasternack and E. V. Brown, Process of preparing aldehydo acylated ribose, and product thereof, decided April 29, 1942, claims 4 and 5.

Trade-Mark Registrations Canceled

243,132. Milling machines. Kearney & Trecker, West Allis, Wis. Registered June 12, 1928. Canceled April 28, 1942.

245,874. Milling machine. Kearney & Trecker, West Allis, Wis. Registered August 21, 1928. Canceled April 28, 1942.

245,875. Milling machines. Kearney & Trecker, West Allis, Wis. Registered August 21, 1928. Canceled April 28, 1942.

247,387. Silk piece goods. Susquehanna Silk Mills, New York, N. Y. Registered September 25, 1928. Canceled April 22, 1942.

333,088. Automatic electric roaster. National Enameling and Stamping Company, Milwaukee, Wis. Registered March 10, 1936. Canceled April 22, 1942.

Disclaimers

2,108,053.—*August D. Eitzen*, Rockville Centre, N. Y. BROAD TAPE PROJECTOR. Patent dated February 15, 1938. Disclaimer filed April 21, 1942, by the assignee, *News Projection Corporation.*

Hereby enters this disclaimer to claim 39 of said patent.

2,151,559.—*Karl B. McEachron*, Pittsfield, Mass. LIGHTNING ARRESTER. Patent dated March 21, 1939. Disclaimer filed April 22, 1942, by the assignee, *General Electric Company.*

Hereby enters this disclaimer of claim 1 of said patent.

2,191,996.—*Bernard H. Shoemaker* and *Clarence M. Loane*, Hammond, Ind. LUBRICATING OIL. Patent dated February 27, 1940. Disclaimer filed April 20, 1942, by the assignee, *Standard Oil Company (Indiana).*

Hereby enters this disclaimer to claims 3 and 4 in said specification.

2,197,284.—*Philip A. Wooster*, San Francisco, Calif. OPERATING MECHANISM FOR DISPENSING DEVICES. Patent dated April 16, 1940. Disclaimer filed April 17, 1942, by the inventor.

Hereby enters this disclaimer to claims 5 and 8 in said patent.

2,248,267.—*Dana Howland Bacon*, Arlington, Mass. VOLTAGE LIMITER. Patent dated July 8, 1941. Disclaimer filed April 17, 1942, by the assignee, *National Company, Inc.*

Hereby enters this disclaimer to claims 2, 3, and 4 in said specification.

2,271,200.—*Warren P. Mason*, West Orange, N. J. WAVE FILTER. Patent dated January 27, 1942. Disclaimer filed April 22, 1942, by the assignee, *Bell Telephone Laboratories, Incorporated.*

Hereby enters this disclaimer to claims 1, 8, and 9 of said Letters Patent.

Changes in Classification

Order No. 8619, April 15, 1942, directs:

In *class 88, Optics* (Division 7) establish the following subclasses with their definitions:

Projecting apparatus
- 28.90 Screens
- 28.91 Collapsible or folding,
- 28.92 With sound transmitting characteristics,
- 28.93 Translucent or rear projection type.

28.90. Means per se providing a surface (such as that afforded by a curtain, sheet, wall or the like) upon which images may be projected by lanterns, projectors, etc.

(1) Note.—For screens in the nature of furniture see class 45, FURNITURE, subclass 105 and indented subclass.

(2) Note.—For photographic screens and backgrounds see class 95, PHOTOGRAPHY, subclasses 81 and 83 and their indented subclasses.

(3) Note.—For screens not peculiarly adapted for receiving projected images see class 156, CURTAINS, SHADES AND SCREENS, appropriate subclasses.

(4) Note.—For fluorescent or phosphorescent screens see class 250, RADIANT ENERGY, particularly subclasses 58, 58 and 80.

28.91. Screens under subclass 28.90 peculiarly constructed to be collapsed, rolled or folded to occupy a smaller space, usually to facilitate transportation.

(1) Note.—For folding screens in the nature of furniture see class 45, FURNITURE, subclass 106.

(2) Note.—For rolling curtain backgrounds see class 95, PHOTOGRAPHY, subclass 84.

(3) Note.—For folding stands per se see class 248, SUPPORTS, particularly subclasses 157, 161, 165, 166 and 190 and their indented subclasses.

28.92. Screens under subclass 28.90 having perforations or other constructions to peculiarly adapt them for transmitting sounds therethrough.

Note.—For combinations of such screens with organizations for producing sound combined with motion pictures, see this class, subclass 16.2.

28.93. Screens under subclass 28.90 of translucent character usually for the purpose of transmitting an image projected from a point on the opposite side of the screen from the observer.

The patents in these subclasses have been taken from class 88, Optics, subclass 24.

In *class 260, Chemistry, Carbon Compounds* (Division 50) abolish subclass 107 and establish the following subclasses and definitions:

Natural resins and reaction products
- 107 Purification, preservation or recovery
- 108 Resins of pine origin
- 109 Oleoresin,
- 110 Extraction from cut wood,
- 111 Treatment with immiscible solvents.

107. Processes under subclass 97, and the products thereof, which are directed to the purification, preservation or recovery of natural resins.

108. Processes under subclass 107, and the products thereof, wherein the resins purified, preserved or recovered are natural resins derived from a wood of the genus pinus.

109. Processes under subclass 108, and the products thereof, which are directed to the treatment of pine oleoresin (turpentine gum) which is the resinous exudate obtained by the periodic scarification of living pine trees and is usually a source material for rosin and turpentine.

Note.—For processes directed to the separation of rosin from pine oleoresin, see the appropriate class providing for such separation, particularly class 202, DISTILLATION, subclass 39 and indented subclasses, if by distillation, and this class, subclass 108 and 111.

110. Processes under subclass 108, and the products thereof, which are directed to the extraction of resins from cut pine wood.

111. Processes under subclass 108, and the products thereof, wherein the purification or treatment includes the use of immiscible solvents, such as, for example, the treatment of a solution of rosin in one liquid with another liquid immiscible therewith and which second liquid is usually a solvent for impurities in the rosin.

The patents in these subclasses have been taken from class 260, subclass 107, abolished and reestablished in this order.

In *class 21, Preserving, Disinfecting, and Sterilizing* (Division 63) main class definition, Note XI, add:

99—FOODS AND BEVERAGES, subclass 150 and indented subclasses, for the preservation of foods and beverages.

In *class 34, Drying and Gas or Vapor Contact with Solids,* (Division 49) subclass 58, note 3, in the reference to class 260, change 107 to 107 and indented subclasses.

In *class 88, Optics,* (Division 7) in subclass 16.2 renumber notes (1) and (2) as (2) and (3) and add the following note:

(1) Note.—See this class, subclass 28.92 for screens, per se having sound transmitting characteristics.

and in subclass 83 add the following note:

Note.—For projection screens provided with background means see this class, subclass 28.90 and indented subclasses.

In *class 99, Foods and Beverages,* (Division 63) subclass 104, in the definition thereof, change "fruit" to *fruits and vegetables.*

In *class 206, Special Receptacles and Packages,* (Division 40) subclass 48.5, in note (1) change "tobacco or tobacco products" to read:

tobacco, tobacco products or smokers' articles,

In *class 211, Supports, Racks,* (Division 8) subclass 144, after "type" insert:

or racks having rotatable shelves.

In *class 220, Metallic Receptacles,* (Division 40), subclass 1, in note (1) at the end, add:

Those separate stands, where claimed per se or where not claimed in combination with significant receptacle structure, are in class 248, SUPPORTS, particularly subclass 127 and indented subclasses.

in subclass 39, change note (2) to read:

(2) Note.—Patents for bushings and similar fittings applied to plates are found in class 285, PIPE JOINTS OR COUPLINGS, particularly in subclass 25 and indented subclasses where the titles "bushing", "thimble" or "sput" occurs, even though disclosed for receiving closures.

and in subclass 43, number the existing note (1) and add:

(2) Note.—Umbrella type extensions which may be grasped or hammered to remove a lid (from a milk can, for example) are in this class, subclass 42.

In *class 248, Supports,* (Division 52) subclass 146, in note (1) after "but" insert:

which are

In *class 250, Radiant Energy,* (Division 54) subclass 80 add the following note:

(3) Note.—For picture projection screens see class 88, OPTICS, subclass 28.90 and indented subclasses.

In *class 251, Valves* (Division 39) subclass 116 add:

Note.—For valves opened by a receptacle and closed under the weight of the contents of the receptacle received through the valve see class 249, AUTOMATIC WEIGHERS, subclass 58.

In *class 260, Chemistry, Carbon Compounds* (Division 6) subclass 705, note (1), change 107 to 107 and indented subclasses.

In *class 285, Pipe, Joints or Couplings,* (Division 52) subclass 49, number the existing note (1), change "32 and 38" to read:

32, 38 and 48

and add the following note:

(2) Note.—This subclass takes all subcombinations of connectors secured to plates, where the connectors are capable of general application, even though disclosed solely to receive a closure.

Note.—Copies of the list of subclass titles, and of the definitions, may be seen in the Search Room and in the Classification Division pending publication.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 19, 1942

[VOL. 538. No. 3]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

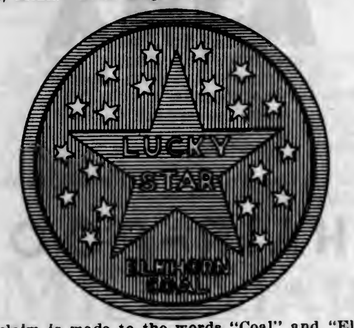
Ser. No. 446,101. L. A. DREYFUS COMPANY, Rosebank, Staten Island, N. Y. Filed Aug. 9, 1941.

BERGUNA

FOR CHEWING GUM BASE NOT INCLUDING CHICLE.

Claims use since May 23, 1928.

Ser. No. 446,392. GREAT LAKES COAL & DOCK CO., St. Paul, Minn. Filed Aug. 20, 1941.

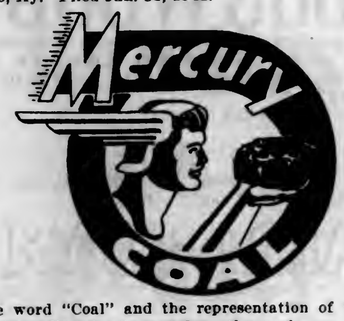


No claim is made to the words "Coal" and "Elkhorn" apart from the mark.

FOR FUEL—NAMELY, COAL.

Claims use since May 1, 1941.

Ser. No. 450,618. CLEAR FORK COAL COMPANY, Middlesboro, Ky. Filed Jan. 31, 1942.



The word "Coal" and the representation of the lump of coal are disclaimed apart from the mark.

FOR COAL.

Claims use since Sept. 24, 1937.

Ser. No. 451,267. GRAPEVINE COAL COMPANY, Madisonville, Ky. Filed Feb. 27, 1942.



The word "Coal" and the representation of the lump of coal are disclaimed apart from the mark.

FOR COAL.

Claims use since June 1, 1918.

Ser. No. 451,647. MANAWUL PATENT CORPORATION, Boston, Mass. Filed Mar. 16, 1942.

Manawul

FOR PROCESSED RAMIE FIBERS.

Claims use since August, 1940.

CLASS 2

RECEPTACLES

Ser. No. 445,423. JAYHAWK MFG. CO. INC., New York, N. Y. Filed July 17, 1941.

PERMA-GLO

FOR ACCESSORY BOXES FOR USE IN STORING MANY DIVERSE ARTICLES, AS GLOVES, HANDKERCHIEFS, SCARFS, AND THE LIKE, EMPTY CARDBOARD AND WOODEN GARMENT BOXES, EMPTY TISSUE BOXES AND UTILITY BOXES FOR USE IN STORING MANY DIVERSE ARTICLES, AS LINENS, CLOTHING, AND THE LIKE.

Claims use since Jan. 5, 1941.

Ser. No. 451,540. REGO ACCESSORIES MFG., INC., New York, N. Y. Filed Mar. 10, 1942.

CARRYALL

FOR SHOPPING, UTILITY, AND BEACH BAGS MADE OF COTTON FABRIC AND RUBBERIZED COTTON FABRIC.

Claims use since Feb. 13, 1942.

Ser. No. 451,819. THE HANDIHOLD BOX COMPANY, New York, N. Y. Filed Mar. 21, 1942.

HandiHold

FOR FOLDING BOXES MADE OF CARDBOARD AND PAPERBOARD.

Claims use since Mar. 18, 1942.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 451,802. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed Mar. 21, 1942.

Kodak

FOR CARRYING CASES, AND HAND STRAPS AND NECK STRAPS FOR CARRYING PHOTOGRAPHIC APPARATUS.

Claims use on carrying cases since December, 1887; on hand straps since Nov. 12, 1935; and on neck straps for carrying apparatus since Nov. 6, 1936.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 450,753. TURCO PRODUCTS, INC., Los Angeles, Calif. Filed Feb. 4, 1942.

PLAUDIT

FOR DETERGENT CLEANING COMPOUNDS ESPECIALLY USEFUL IN THE CLEANING OF METAL, PAINTED SURFACES, AND THE LIKE.

Claims use since Dec. 2, 1937.

CLASS 5

ADHESIVES

Ser. No. 451,872. I. F. LAUCKS, INC., Seattle, Wash. Filed Mar. 24, 1942.

CONSTRUCTO-GLU

No claim is made to the word "Glu" apart from the mark.

FOR GLUES.

Claims use since Mar. 4, 1942.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 441,586. MERZ & CO. CHEMICAL WORKS, INC., Newark, N. J. Filed Mar. 15, 1941.

Ugalumin

FOR CHEMICAL PREPARATIONS—NAMELY, MEDICINAL DYES, MEDICINAL AND PHARMACEUTICAL PREPARATIONS—NAMELY, PREPARATIONS FOR THE TREATMENT OR PREVENTION OF VENEREAL DISEASES, CONTRACEPTIVES, ANTISEPTICS, LOCAL ANESTHETICS, DISINFECTANTS, MEDICATED JELLIES, OINTMENTS AND OTHER TOPICAL MEDICATIONS TO BE USED IN THE TREATMENT OF THE SKIN AND MUCOUS MEMBRANES, WORM REMEDIES, STERILIZING PREPARATIONS HAVING ANTISEPTIC PROPERTIES ADDED FOR INTRAVENOUS OR INTRAMUSCULAR INJECTION, MEDICATED OILS, VETERINARY PREPARATIONS; COSMETICS—NAMELY, ETHEREAL OILS, BATH TABLETS, FACIAL CREAMS, SUNTAN OIL.

Claims use since Mar. 17, 1930.

Ser. No. 445,686. COMMERCIAL SOLVENTS CORPORATION, New York, N. Y. Filed July 28, 1941.

AJAX

FOR RADIATOR PREPARATIONS—NAMELY, ANTI-LEAK COMPOUNDS, ANTI-RUST COMPOUNDS, AND FLUSHING COMPOUNDS.

Claims use since June 13, 1941.

Ser. No. 448,131. HOMER H. DARY & SON, Racine, Wis. Filed Oct. 27, 1941.

HAIR-POO

The word "Hair" is disclaimed apart from the mark.

FOR SHAMPOO.

Claims use since Aug. 1, 1940.

Ser. No. 449,435. ROGER & GALLET, New York, N. Y. Filed Dec. 12, 1941.

DOGWOOD

FOR PERFUMES, TOILET WATERS, POWDER AND ROUGE CONTAINERS, ROUGES, LIPSTICKS, BATH SALTS, LOTIONS FOR THE SKIN AND HAIR, AND SACHETS.

Claims use since Dec. 10, 1941.

Ser. No. 450,513. NATIONAL FOAM SYSTEM, INC., Philadelphia, Pa. Filed Jan. 27, 1942.

AER-O-FOAM

Applicant disclaims the word "Foam" apart from the mark.

FOR FIRE EXTINGUISHING CHEMICALS AND COMPOSITIONS.

Claims use since Sept. 18, 1941.

Ser. No. 450,616. CHICAGO MAIL ORDER COMPANY, Chicago, Ill. Filed Jan. 31, 1942.

Korrene

FOR DOUCHE AND VAGINAL SUPPOSITORIES.

Claims use since July 25, 1938.

Ser. No. 451,454. STANDARD B VITAMINS, INC., New York, N. Y. Filed Mar. 6, 1942.

major-B

No claim is made for the letter B except as shown.

FOR VITAMIN TABLETS.

Claims use since Jan. 23, 1942.

Ser. No. 451,455. TEXAS PHENOTHIAZINE COMPANY, Fort Worth, Tex. Filed Mar. 6, 1942.

FENO-DRENCH

The word "Drench" is disclaimed apart from the mark.

FOR ANTHELMINTIC LIVESTOCK AND POULTRY MEDICINE FOR ELIMINATING INTERNAL PARASITES.

Claims use since June 21, 1941.

Ser. No. 451,558. SOUTHERN DYESTUFF CORPORATION, Charlotte, N. C. Filed Mar. 11, 1942.

SO-DYE-CO

FOR VARIOUS CHEMICALS—NAMELY, SOFTENING AGENTS, PENETRANTS, DYESTUFF DEVELOPERS, AND REDUCING AGENTS, RETARDING AGENTS, "SANFORIZING" OILS, AND FINISHING AGENTS.

Claims use since Oct. 13, 1936.

Ser. No. 451,698. R. T. VANDERBILT COMPANY, INC., New York, N. Y. Filed Mar. 17, 1942.

MILLIMAR

FOR MATERIAL USED IN COMPOUNDING NATURAL, SYNTHETIC, AND RECLAIMED RUBBER.

Claims use since Mar. 10, 1942.

Ser. No. 451,875. PARFUMS WEIL PARIS, INC., New York N. Y. Filed Mar. 24, 1942.

Bundles For Beauty

The word "Beauty" is disclaimed apart from the mark.

FOR PERFUMES.

Claims use since Mar. 12, 1942.

Ser. No. 451,974. FRED HERMAN AND SONS, Chicago, Ill. Filed Mar. 28, 1942.

"HERMOX"

FOR SODIUM HYPOCHLORIDE DISINFECTANT.

Claims use since Feb. 15, 1942.

Ser. No. 451,997. AMERICAN TAR COMPANY, Spokane and Seattle, Wash. Filed Mar. 30, 1942.



FOR COPPER OLEATE, COPERLINEUM, SPECIFICATION CREOSOTE, COMMERCIAL CREOSOTE OIL, LIGHT CREOSOTE OIL, BENZOL, TOLUOL, AND SOLVENT NAPHTHA.

Claims use since Mar. 1, 1922.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 450,898. HERCULES POWDER COMPANY, Wilmington, Del. Filed Feb. 11, 1942.

SPIRALOK

FOR SPECIALLY CONSTRUCTED CARTRIDGES USED FOR HIGH EXPLOSIVES.

Claims use since Dec. 29, 1941.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 450,860. THE PALMETEX CORPORATION, Jacksonville, Fla. Filed Feb. 9, 1942.

PALMETEX

FOR WALL BOARD, ACOUSTIC TILE, INSULATION, SHEATHING, SIDING, FLOORING, ROOFING.

Claims use since Jan. 21, 1942.

Ser. No. 451,014. NATIONAL STORE FIXTURE COMPANY, Baltimore, Md. Filed Feb. 16, 1942.

NATCOLITE

FOR EXTRUDED OPAQUE, TRANSPARENT AND TRANSLUCENT PLASTIC MATERIAL IN THE FORMS OF FLAT AND T-SHAPED EDGINGS, NOSINGS, ANGLES, CHANNELS, CAP SECTIONS, FLAT SECTIONS, DECORATIVE SHAPES, COVES, TUBES, RODS, PANEL DIVIDERS, INSIDE CORNERS, OUTSIDE CORNERS FOR USE IN COMMERCIAL, INDUSTRIAL AND ARCHITECTURAL DESIGNS.
Claims use since Apr. 4, 1936.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 450,101. THE INTERNATIONAL NICKEL COMPANY, INC., New York, N. Y. Filed Jan. 9, 1942.

SEAGOIN'

FOR CASTINGS—NAMELY, THOSE MADE OF NICKEL AND NICKEL ALLOYS INCLUDING NICKEL-COPPER ALLOY.
Claims use since Dec. 13, 1941.

Ser. No. 451,502. POWDER METALS AND ALLOYS, INC., New York, N. Y. Filed Mar. 9, 1942.

POWDOLOY

FOR METAL POWDERS.
Claims use since Feb. 9, 1942.

CLASS 15

OILS AND GREASES

Ser. No. 448,887. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa. Filed Nov. 25, 1941.



The drawing is lined for blue and red.
FOR GASOLINE.
Claims use since Mar. 8, 1934.

Ser. No. 450,991. AMERICAN OIL COMPANY, Baltimore, Md. Filed Feb. 16, 1942.



The drawing is lined for red and black.
FOR GASOLINE, LUBRICATING OILS, AND GREASES.
Claims use since May 1, 1931.

Ser. No. 450,992. AMERICAN OIL COMPANY, Baltimore, Md. Filed Feb. 16, 1942.



FOR GASOLINE, LUBRICATING OILS, AND GREASES.
Claims use since May 1, 1931.

Ser. No. 451,125. SUN OIL COMPANY, Philadelphia, Pa. Filed Feb. 20, 1942.

SUNOTEX

FOR LUBRICATING OILS FOR TEXTILES.
Claims use since May 12, 1941.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 447,565. FRANK HARRIS, doing business as Frank Harris Laboratories, Los Angeles, Calif. Filed Oct. 6, 1941.

F-H

FOR POLISH FOR FURNITURE, AUTOMOBILES, AND THE LIKE.
Claims use since July 17, 1941.

Ser. No. 447,833. AMERICAN-MARIETTA COMPANY, Chicago, Ill. Filed Oct. 16, 1941.



The words "Fine Finishes" are disclaimed apart from the mark.
FOR PAINTS SOLD IN PASTE AND READY-MIXED FORM, VARNISHES, LACQUERS, PAINT ENAMELS, STAINS, AND WOOD FILLERS.
Claims use since Aug. 1, 1941.

Ser. No. 450,172. THE WAYNE SOAP COMPANY, Detroit, Mich. Filed Jan. 12, 1942.

KEMIFILM

FOR LIQUID PROTECTIVE COATING IN THE NATURE OF A LACQUER FOR THE SURFACE OF METAL, WOOD, LEATHER, PAPER, CARDBOARD, RUBBER, PLASTICS, AND OTHER MATERIALS.
Claims use since Oct. 10, 1941.

Ser. No. 450,666. SOLAR CORPORATION, Milwaukee, Wis. Filed Feb. 2, 1942.

SOLAR

FOR READY MIXED PAINTS, PAINT ENAMELS, VARNISHES, LIQUID FLOOR WAX, AND RAW AND BOILED LINSEED OILS.
Claims use since March, 1932.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 450,429. MORRIS SCHERL, New York, N. Y. Filed Jan. 23, 1942.

BOLERO

FOR CIGARS.
Claims use since 1938.

Ser. No. 451,610. PENN TOBACCO COMPANY, Wilkes-Barre, Pa. Filed Mar. 13, 1942.

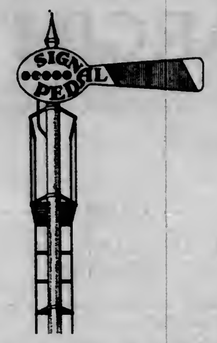
WHITE MANOR

FOR SMOKING AND CHEWING TOBACCO.
Claims use since Dec. 1, 1941.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 416,169. THE TORRINGTON COMPANY, Torrington, Conn. Filed Feb. 17, 1939.



The words "Signal Pedal" are disclaimed apart from the mark. The vertical lines indicate red and the horizontal lines shading.
FOR CYCLE PEDALS.
Claims use since Feb. 8, 1939.

Ser. No. 445,713. RAY R. BIRCH, doing business as Ray Birch Service, East Liverpool, Ohio. Filed July 29, 1941.

HERE 'TIS

FOR AUTOMOBILES AND ACCESSORIES—NAMELY, AUTOMOBILE HEATERS UTILIZING HEAT FROM ENGINE, SEAT COVERS, BUMPER GUARDS, WINDSHIELD WIPERS, STEERING WHEELS, HUB CAPS, REAR VIEW MIRRORS, RADIATOR CAPS AND RADIATOR ORNAMENTS.
Claims use since June 1, 1941.

Ser. No. 447,315. SOCIETE ANONYME DES ANCIENS ETABLISSEMENTS HOTCHKISS & CIE, Paris, France. Filed Sept. 25, 1941.



No claim is made to "Paris" excepted as associated with the other parts of the mark.
FOR AUTOMOBILES COMPLETE, CHASSIS OF AUTOMOBILES, RADIATORS FOR AUTOMOBILES, HOODS FOR AUTOMOBILES, AXLES FOR AUTOMOBILES, MUD GUARDS FOR AUTOMOBILES, AND FRAMES FOR AUTOMOBILES.
Claims use since 1903.

CLASS 20

LINOLEUM AND OILED CLOTH

Ser. No. 451,820. HOOD RUBBER COMPANY, Wilmington, Del., and Watertown, Mass. Filed Mar. 21, 1942.

HARGILITE

FOR FLOOR AND WALL COVERING MATERIALS COMPRISING RUBBER AND/OR FIBRE COMPOSITIONS.

Claims use since Feb. 11, 1942.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 447,501. VICTOR INSULATORS, INC., Victor, N. Y. Filed Oct. 2, 1941.

V

FOR WET PROCESS PORCELAIN HIGH TENSION ELECTRIC INSULATORS, HAVING RATINGS FROM A MINIMUM OF 4 KILOVOLTS TO MAXIMUM POSSIBLE VOLTAGES, WET FLASHOVER FROM A MINIMUM OF 12 KILOVOLTS TO THE MAXIMUM POSSIBLE WET FLASHOVER VOLTAGES, AND DRY FLASHOVER FROM A MINIMUM OF 23 KILOVOLTS TO THE MAXIMUM POSSIBLE DRY FLASHOVER VOLTAGES

Claims use since Aug. 25, 1941.

Ser. No. 449,662. BEGA BROTHERS PRODUCTS CORP., New York, N. Y. Filed Dec. 22, 1941.

BB

FOR ELECTRIC MOTORS AND PARTS THEREOF FOR SEWING MACHINES.

Claims use since Mar. 27, 1941.

Ser. No. 450,997. THE AUTOMATIC ELECTRICAL DEVICES CO., Cincinnati, Ohio. Filed Feb. 16, 1942.

VICTORY AUTOLARM ALWAYS ON GUARD

FOR ALARM DEVICES, SPECIFICALLY ELECTRICALLY OPERATED ALARM DEVICES USED ON AUTOMOBILES.

Claims use since Jan. 23, 1942.

Ser. No. 451,711. GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed Mar. 18, 1942.

Vortalex

FOR ELECTRIC FANS AND PARTS THEREOF.

Claims use since March, 1938.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 429,553. ALBERTSON & COMPANY, INC., Sioux City, Iowa. Filed Mar. 14, 1940.

SIOUX

FOR GOODS USED IN THE SERVICING OF AUTOMOBILES AND INTERNAL COMBUSTION ENGINES, SUCH AS FLEXIBLE SHAFT HANDLES, WORK HEADS, LEGS AND CASTERS FOR STANDS, CHUCK KEYS, HOLE PUNCHES, SOCKET WRENCHES, PILOT WRENCHES, VALVE GUIDE CLEANERS, VALVE STEM REAMERS, RING INSTALLING FIXTURES AND RING TOOL DRIVE UNITS, RING TOOL SETS, RING TOOL AUTOMATIC FEED SCREWS, RING ROLLING TOOLS, PEENING TOOLS, GUARDS, STANDS, CHUCKS, FEED SCREWS FOR REAMERS, RATCHET WRENCHES, HAMMERS, VALVE SEAT REAMERS, CRANK DRIVEN VALVE GRINDERS, FEED SCREWS, RING TOOL PILOT SHANKS, RING TOOL CUTTERS AND BLADES, RING DRIVERS, AND VALVE SEAT RINGS.

Claims use since Mar. 15, 1915.

Ser. No. 447,229. THE DENISON ENGINEERING COMPANY, Columbus, Ohio. Filed Sept. 22, 1941.

No claim is made to the word "Oil" apart from the mark as shown.

HydrOILics

FOR HYDRAULIC PUMPS, HYDRAULIC PRESSES, HYDRAULIC KILN CAR PROPELLERS, AUTOMATIC BAR MACHINES, STRAIGHTENING PRESSES, HORIZONTAL PRESSES, BENCH PRESSES, HYDRAULIC PRESSES WITH ROTARY INDEXING TABLES, BRIQUETTING PRESSES, HYDRAULIC MACHINES FOR STRAIGHTENING CENTERS, BAND-TYPE PRESSES, HYDRAULIC TILTING GEARS FOR CRUCIBLES AND FURNACES, HYDRAULIC ELEVATORS, DECKLING MACHINES FOR PHOTOGRAPHIC MOUNTING CARDS, POWER TRANSMISSION DEVICE FOR ROTARY CIRCULAR KILNS, HYDRAULIC BILLET PUSHERS, HYDRAULIC CLAY EXTRUSION APPARATUS, HYDRAULIC JACKS, HYDRAULIC CYLINDERS, PISTONS AND RAMS, ASSEMBLING PRESSES, VERTICAL OPEN SIDE PRESSES, VARIABLE VOLUME HYDRAULIC PUMPS, CONSTANT PRESSURE PUMPS, HYDRAULIC POWER UNITS, COMBINATION HYDRAULIC AND PNEUMATIC VALVES, BALANCED PISTON TYPE VALVES, AND HYDRAULIC OPERATING MECHANISMS FOR ELECTRICAL CONTROL PANELS.

Claims use since Aug. 1, 1941.

Ser. No. 448,885. JOHN H. ZOERMAN, doing business as National Garage Tools Company, Jackson, Mich. Filed Nov. 24, 1941.

NATIONAL

FOR GARAGE SERVICE TOOLS—NAMELY, GEAR PULLERS, WHEEL PULLERS, GENERAL PURPOSE PULLERS, ARM PULLERS, PERCH PULLERS, PULLER PARTS, AIR NOZZLES FOR ATTACHMENT TO THE END OF COMPRESSED AIR HOSES FOR PROVIDING A FINE JET OF AIR AT HIGH VELOCITY FOR CLEANING AND LIKE PURPOSES, VALVE PULL THROUGHS FOR USE IN MOUNTING PNEUMATIC TIRES ON RIMS, TIRE VALVE TOOLS, TIRE DEFLATORS, BATTERY CARRIERS, SERVICE STATION KITS OF TOOLS FOR USE IN AUTOMOBILE SERVICE STATIONS, BULB EXTRACTORS AND REPLACERS, HYDRAULIC BRAKE PISTON CLAMPS, SPRING GREASING TOOLS, WRENCHES, PLIERS, VALVE GUIDE CARBON CLEANERS, CARBON SCRAPERS, HONING TOOLS, HONING, BURNISHING AND LAPPING TOOL SETS, PISTON RING COMPRESSORS, PISTON RING GROOVE CLEANERS, PISTON RING HANDLING TOOLS, CYLINDER RIDGE REAMERS, CHAMFERING TOOL AND DRILL JIGS, PISTON LAND REDUCING TOOLS, PISTON VISES, PISTON GROOVE TOOL COMBINATION SETS, VALVE SEAT CUTTERS AND GRINDERS, VALVE SEAT CUTTER AND GRINDER SETS, CLUTCH ALIGNMENT TOOLS, BENDING IRONS, STRAIGHTENING BARS, PICK-UP TOOLS FOR HOLDING SCREWS, BOLTS OR THE LIKE BY THEIR HEADS USUALLY FOR STARTING PURPOSES, RADIATOR TEST PLUGS FOR USE IN LOCATING RADIATOR LEAKS IN INTERNAL COMBUSTION ENGINE RADIATORS, HAMMERS, BEARING SPLITTERS, TUBE CUTTERS, TUBE FLARING TOOLS, BUSHING DRIVERS, BUSHING REPLACERS, BUSHING DRIVER AND REPLACER SETS, STUD REMOVERS, TOOLS FOR LOOSENING CYLINDER HEADS, CYLINDER HEAD PULLERS, VALVE GUIDE DRIVERS, PISTON PIN REMOVERS AND REPLACERS, SPRING SPREADERS, VALVE ASSEMBLY REMOVERS, HUB BOLT SET PUNCHES, UNIVERSAL JOINT HOLDERS, PINION BEARING LOCK SLEEVE TOOLS, VALVE GUIDE LOCK REMOVING TOOLS AND CREEPERS.

Claims use since Dec. 31, 1920.

Ser. No. 449,382. D. J. MURRAY MANUFACTURING CO., Wausau, Wis. Filed Dec. 11, 1941.

MURCO

The representation of the gear is disclaimed apart from the mark.

FOR WOOD CUTTING AND TREATING EQUIPMENT—NAMELY, LOG HAULS, LOG LIFTERS, LOG ROLLS, LOG KICKERS, CUT-OFF SAWS, SLASHERS, BARK REMOVERS, KNOT DRILLS, KNOT SAWS, SPLITTERS, CHIPPERS, CHIP CRUSHERS, HAMMER MILLS, CHIP SCREENS, WOOD CLEANERS, WOOD HOGS, AND REFUSE GRINDERS; AND FOR PAPER MAKING AND PULP MILL EQUIPMENT—NAMELY, FLAT SCREENS, ROTARY SCREENS, PAPER WINDER SHAFTS, CYLINDER MOULDS, DECKERS, HEADING MACHINES, COUCH ROLLS, AGITATORS, SULPHUR BURNERS, ROTARY INCINERATORS, AND DISC EVAPORATORS; AND FOR AIR AND GAS WASHERS AND SCRUBBERS; AND FOR SPRAY WHEELS FOR LIQUIDS AND GASES; AND FOR TRANSMISSION MACHINERY INCLUDING BELT AND GEAR DRIVES, BUCKET ELEVATORS, CONVEYORS, CLUTCHES, RUBBER FACED ROLLERS, SHEAVES, AND TOOTHED GEARS; AND FOR STONE SAWS, AND GATE HOISTS.

Claims use since Dec. 17, 1938.

Ser. No. 449,889. MILTON BRADLEY COMPANY, Springfield, Mass. Filed Dec. 31, 1941. Under Sec. 5b act 1905, as amended 1920.

BRADLEY

The applicant is the owner of T. M. 388,832, Reg. July 15, 1941, and effected under the ten year proviso.

FOR PAPER AND CARD CUTTERS AND TRIMMERS.

Claims use since June 10, 1930.

Ser. No. 452,014. GENERAL MACHINERY CORPORATION, Hamilton, Ohio. Filed Mar. 30, 1942. Under ten-year proviso.

NILES

FOR HYDRAULIC FORGING-PRESSES, FORGING-MACHINES, STEAM-HAMMERS, PUNCHING AND SHEARING MACHINES, AXLE-LATHES, ARCH-BAR DRILLS, AXLE-DRILLING MACHINES, BENDING AND STRAIGHTENING ROLLS, BORING AND TURNING MILLS, CAR-BOX BORERS, CAR-WHEEL BORERS, CAR-WHEEL LATHES, CORE-BORING MACHINES, CUTTING-OFF AND CENTERING MACHINES, DRIVING-WHEEL LATHES, ENGINE-LATHES, FROG AND SWITCH PLANERS, GUN-BORING MACHINES, HORIZONTAL BORING, MILLING, AND DRILLING MACHINES, HORIZONTAL BORING AND DRILLING MACHINES, HYDRAULIC TRAVELING CRANES, HYDROSTATIC WHEEL-PRESSES, LO-

COMOTIVE-ROD-BORING MACHINES, MILLING-MACHINES, MULTIPLE DRILLS, PLANING-MACHINES, PLATE-PLANERS, PNEUMATIC TRAVELING CRANES, QUARTERING-MACHINES, RADIAL DRILLS, RAIL-DRILLS, RIFLING-MACHINES, SHAPERS, SLOTTERS, TIRE-MILLS, TURRET-LATHES, VERTICAL DRILLS.
Claims use since Jan. 1, 1895.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 447,355. WELL SURVEYS, INCORPORATED, Tulsa, Okla. Filed Sept. 26, 1941.

WSI

FOR ELECTRICAL INSTRUMENTS FOR SURVEYING WATER, OIL, GAS, AND OTHER EARTH-BORED WELLS DURING BORING OPERATION AND AFTER COMPLETION.
Claims use since January, 1940.

Ser. No. 450,703. AIR REDUCTION SALES COMPANY, New York, N. Y. Filed Feb. 4, 1942.

AIRCO

FOR TENSILE TESTING MACHINES.
Claims use since Feb. 3, 1934.

Ser. No. 451,401. V. & E. ENGINEERING CO., Pasadena, Calif. Filed Mar. 4, 1942.

VEMCO

FOR DRAFTING MACHINES AND DRAWING INSTRUMENTS COMPRISING COMPASSES, DIVIDERS, BOW COMPASSES, DRAWING PENS, PROTRACTORS, RULERS, AND SCALES.
Claims use since Feb. 23, 1942.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 445,941. GEORGE J. HECHT, New York, N. Y. Filed Aug. 4, 1941.

Konobelope

FOR STRINGS OF BEADS FOR PERSONAL ADORNMENT, MADE OF PLASTIC MATERIALS, GLASS, AND SEMI-PRECIOUS STONES.
Claims use since Mar. 25, 1941.

Ser. No. 450,484. EVE NATHANSON, East Greenwich, R. I. Filed Jan. 26, 1942.

EVE

FOR ORNAMENTAL JEWELRY, NOT INCLUDING WATCHES—NAMELY, PINS, BROOCHES, CLIPS, NECKLACES, LOCKETS, PENDANTS, BRACELETS, EARRINGS, COMPACTS, LADIES' DRESS ORNAMENTS, TIE CLIPS, COLLAR HOLDERS, CUFF LINKS, AND CIGARETTE CASES, ALL OF THE FOREGOING ARTICLES BEING MADE IN WHOLE OR IN PART OF PRECIOUS OR SEMI-PRECIOUS METAL OR BEING PLATED THEREWITH.
Claims use since Sept. 15, 1939.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 452,049. INTERSTATE SHADE CLOTH COMPANY, Hoboken, N. J. Filed Mar. 31, 1942.

PRESTO

FOR WINDOW SHADE ROLLERS.
Claims use since Sept. 1, 1915.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 448,123. WHITING CORPORATION, Harvey, Ill. Filed Oct. 25, 1941. Under 10-year proviso.

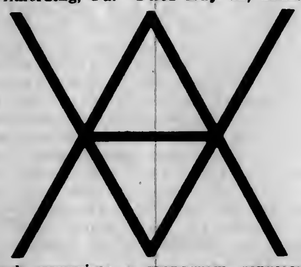
WHITING

FOR CUPOLAS, AIR OR REVERBERATORY FURNACES, ROTARY FURNACES, STEEL CONVERTERS, ANNEALING OVENS, DUST FILTERS, SAND DRYERS, AND PULVERIZED COAL BURNERS.
Claims use since 1894.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 444,114. THE WESTINGHOUSE AIR BRAKE COMPANY, Wilmerding, Pa. Filed May 31, 1941.



Trade-mark comprises a monogram representing the letters "W" and "A" interwoven or combined.
FOR PISTON PACKING CUPS, GASKETS, PISTON PACKING SEALS, PACKING WASHERS, PISTON RINGS, AND FLEXIBLE DIAPHRAGMS DESIGNED PRIMARILY FOR USE IN FLUID PRESSURE APPARATUS IN TRANSPORTATION AND INDUSTRIAL SERVICE AND INCLUDING DIAPHRAGMS FOR APPARATUS IN THE NATURE OF AB VALVES FOR RAILWAYS, ACCELERATOR VALVES, APPLICATION CONTROL VALVES, BRAKE CHAMBERS, BRAKE CONTROLLING VALVES, CHANGE-OVER VALVES, CHECK VALVES, CUT-IN VALVES, CUT-OUT VALVES, CLUTCH CYLINDERS, COMPRESSOR GOVERNORS, DIAPHRAGM COCKS, DIAPHRAGM FOOT VALVES, ELECTRIC PUMP GOVERNORS, ELECTRIC SELF-LAPPING UNITS, ELECTROPNEUMATIC MASTER CONTROLLERS, FEED VALVES, FRICTION DRIVE UNITS, HOSE COUPLERS, MAGNET VALVES, MANUAL BRAKE VALVE DEVICES, PILOT VALVES, PNEUMATIC SWITCHES, REDUCING VALVES, RELAY VALVES, RELEASE CONTROL VALVES, SIGNAL VALVES, SLIDE VALVE HOLDING STEMS, SPRING BRAKE TIMING VALVES, TRACK SHOE REGULATORS, TRAIN CONTROL VALVES, TRIPLE VALVES, UNIVERSAL VALVES, AND VENT VALVES.
Claims use since 1920 on piston packing cups, gaskets, diaphragms, piston packing seals and packing washers, and since 1927 on piston rings.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 451,884. AMERICAN MERRI-LEI CORPORATION, New York, N. Y. Filed Mar. 25, 1942.

HUM DINGER

FOR TOY MECHANICAL MUSICAL INSTRUMENT WHICH IS PLAYED BY SINGING OR HUMMING INTO THE SAME.
Claims use since Feb. 17, 1942.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 450,131. AMERICAN NEWSPAPERS, INC., New York, N. Y. Filed Jan. 10, 1942.

BOSTON SUNDAY ADVERTISER

Applicant is the owner of Reg. No. 218,916, registered Oct. 5, 1926. No claim is made to the words "Boston" and "Sunday" apart from the mark.
FOR WEEKLY NEWSPAPER.
Claims use since Dec. 2, 1917.

Ser. No. 450,274. CONSUMERS COOPERATIVE ASSOCIATION, North Kansas City, Mo. Filed Jan. 17, 1942.

CO-OP HOME-MAKER

FOR PERIODICAL PUBLISHED MONTHLY.
Claims use since Nov. 1, 1938.

Ser. No. 451,380. FAWCETT PUBLICATIONS, INC., Greenwich, Conn. Filed Mar. 4, 1942.

INTIMATE CONFESSIONS

FOR MONTHLY PUBLICATION.
Claims use since Feb. 24, 1942.

CLASS 39

CLOTHING

Ser. No. 429,199. A. M. WEBB & CO., INC., New York, N. Y. Filed Mar. 4, 1940.

DeMilo

FOR MEN'S, WOMEN'S, AND CHILDREN'S PAJAMAS, NIGHTSHIRTS, NIGHTGOWNS, UNDERWEAR, POLO SHIRTS, COLLARS, GARTERS, HANDKERCHIEFS, "WINDBREAKERS," JACKETS MADE OF CLOTH, LEATHER OR KNITTED MATERIALS OR ANY COMBINATION THEREOF, GAITERS, SWEATERS, JERSEYS, HATS, CAPS, BATH ROBES, LOUNGING ROBES, OVERCOATS, TOPCOATS, RAINCOATS, BATHING SUITS, NECKTIES, SCARFS, GLOVES AND MITTENS MADE OF RUBBER, LEATHER, FABRIC, AND/OR COMBINATIONS THEREOF, MACKINAWS, SHOES MADE OF LEATHER, RUBBER, FABRIC, AND/OR COMBINATIONS THEREOF, RIDING HABITS INCLUDING COATS, TROUSERS, JODPHERS, RIDING BOOTS AND PUTTEES; WOMEN'S AND MISSES' DRESSES, COATS, OUTER SKIRTS, UNDERSKIRTS, SUITS, WRAPS, OUTER WAISTS, UNDERWAISTS, CAPES, BLOUSES, CHEMISES, PANTIES, BLOOMERS, SLIPS, PETTICOATS, STEP-INS IN THE NATURE OF UNDERDRAWERS, VESTS, UNION-SUITS, DRAWERS, UNDERSHIRTS, KIMONOS, APRONS, SLACKS, UNIFORMS, BANDANNAS AND SMOCKS; AND MEN'S AND BOYS' DRESS, NEGLIGEE, AND WORK SHIRTS, BLOUSES, OVERALLS, UNION-ALLS, SWEAT SHIRTS, ATHLETIC SHIRTS AND TRUNKS, HELMETS, SUITS INCLUDING COATS, VESTS AND TROUSERS, SLACKS, SUSPENDERS, BELTS FOR OUTER WEAR, BELTS IN THE NATURE OF GARMENT SUPPORTERS, AND GARTER BELTS.
Claims use since Nov. 28, 1919.

Ser. No. 435,947. A. E. NETTLETON COMPANY, Syracuse, N. Y. Filed Sept. 13, 1940.

Looper

FOR LADIES', MEN'S, AND BOYS' SHOES AND SLIPPERS MADE OF LEATHER, RUBBER, FABRIC, OR VARIOUS COMBINATIONS OF SUCH MATERIALS.
Claims use since June 1, 1940.

Ser. No. 441,078. O. M. BAILEY, Bristol, R. I. Filed Feb. 28, 1941.

Ot-Ma-Ba

FOR MEN'S, WOMEN'S, AND CHILDREN'S APRONS, AND WOMEN'S EVENING GOWNS AND HALL GOWNS.
Claims use since Oct. 28, 1940.

Ser. No. 449,757. THE BEE HAT & CAP CO., St. Louis, Mo. Filed Dec. 26, 1941.

UPTOWN

FOR MEN'S AND BOYS' HATS.
Claims use since Sept. 1, 1936.

Ser. No. 450,053. MAYFLOWER DRESS CO., INC., New York, N. Y. Filed Jan. 7, 1942.

DEFENDALL

FOR LADIES' AND MISSES' WORK GARMENTS—NAMELY, COVERALLS.
Claims use since July 15, 1941.

Ser. No. 450,811. ONITA SPECIALTY CO., Brooklyn, N. Y. Filed Feb. 6, 1942.

"Cutie"

FOR BATH ROBES, SACKS, BUNTINGS, WRAPPERS, GOWNS, PETTICOATS, PAJAMAS, KIMONOS, GERTRUDES, APRONS, SUNSUITS, SHORTS, OVERALLS, SKI-PANTS, NIGHT GOWNS, SLACK SETS, PLAY SUITS, HOUSE COATS, CAPES, JACKETS, BELLY BANDS, KNITTED SUITS, AND KNITTED SHIRTS FOR INFANTS AND CHILDREN.
Claims use on bath robes, sacks, buntings, wrappers, gowns, and petticoats since Jan. 28, 1921, and the remainder of the goods since January, 1930.

Ser. No. 450,974. AUGUST F. NIELSEN CO. INC., New York, N. Y. Filed Feb. 14, 1942.

Chenille-Tufts



The words "Chenille-Tufts" are disclaimed apart from the mark. The figures are fanciful.
FOR BATH ROBES, HOUSE COATS, AND CRIB COVERS AND CARRIAGE COVERS BOTH IN THE NATURE OF GARMENTS FOR INFANTS AND CHILDREN.
Claims use since 1918.

Ser. No. 451,101. BROWN SHOE COMPANY, INC., St. Louis, Mo. Filed Feb. 20, 1942.

Volunteer

FOR MEN'S, WOMEN'S, AND BOYS' SHOES OF LEATHER, FABRIC, RUBBER, AND COMBINATIONS OF THOSE MATERIALS.
Claims use since March, 1919.

Ser. No. 451,304. JANTZEN KNITTING MILLS, Portland, Oreg. Filed Feb. 28, 1942.



The picture is fanciful.
FOR FOUNDATION GARMENTS.
Claims use since July 1, 1940.

Ser. No. 451,337. CHICAGO MAIL ORDER COMPANY, Chicago, Ill. Filed Mar. 2, 1942.

Luxury-flex

FOR WOMEN'S SHOES MADE OF LEATHER.
Claims use since Jan. 15, 1942.

Ser. No. 451,546. CANNON SHOE COMPANY, Baltimore, Md. Filed Mar. 11, 1942.

Chelsea Square SHOES

No claim is made to the words "Chelsea" and "Shoes" apart from the mark.
FOR SHOES MADE OF LEATHER, FABRIC, AND/OR COMBINATIONS THEREOF.
Claims use since Feb. 17, 1941.

Ser. No. 451,548. NAT EVANS, doing business as Nip-N-Tuck Styles, New York, N. Y. Filed Mar. 11, 1942.

INCIDENTALS

Fashioned by NIP-N-TUCK

The words "Fashioned by" and "Tuck" are disclaimed apart from the mark.
FOR LADIES', MISSES', AND GIRLS' DRESSES AND APRONS.
Claims use since Apr. 11, 1940.

Ser. No. 451,553. LANDE & MISKEND, INC., New York, N. Y. Filed Mar. 11, 1942.

FAGOTELLE

FOR WOMEN'S AND MISSES' UNDERWEAR, SLIPS, NIGHTGOWNS, PAJAMAS, LOUNGING PAJAMAS AND KIMONOS, BLOUSES, AND INFANTS' UNDERWEAR AND DRESSES.
Claims use since Mar. 9, 1942.

Ser. No. 451,592. COBBLERS, INC., Los Angeles, Calif. Filed Mar. 13, 1942.



FOR SHOES AND SLIPPERS MADE OF LEATHER, FABRIC, AND COMBINATIONS OF LEATHER AND FABRIC.
Claims use since Jan. 4, 1942.

Ser. No. 451,675. JULIUS FRANK FURS, INC., New York, N. Y. Filed Mar. 17, 1942.

GENUINE Persolam DYED LAMB

Applicant disclaims the words "Genuine" and "Dyed Lamb" and the outline of the label.
FOR COATS, CAPES, JACKETS, AND MUFFS MADE OF FUR FOR THE USE OF WOMEN AND MISSES.
Claims use since Feb. 1, 1941.

Ser. No. 451,683. KEYNOTE FASHIONS, INC., New York, N. Y. Filed Mar. 17, 1942.

KEYNOTER by KEYNOTE FASHIONS

The word "Fashions" is disclaimed apart from the mark.
FOR WOMEN'S, MISSES', AND JUNIOR MISSES' DRESSES, BLOUSES, SKIRTS, AND DRESS AND JACKET ENSEMBLES.
Claims use since Nov. 1, 1941.

Ser. No. 451,689. RAINBOW CHILDREN DRESS CO., New York, N. Y. Filed Mar. 17, 1942.

Girleen FASHIONS

The word "Fashions" is disclaimed apart from the mark.
FOR GIRLS' AND CHILDREN'S DRESSES, PINAFORES, BLOUSES, SKIRTS, AND DRESS AND JACKET ENSEMBLES.
Claims use since Feb. 1, 1941.

Ser. No. 451,878. ROLLINS HOSIERY MILLS, INC., Des Moines, Iowa. Filed Mar. 24, 1942.

Rol-Ray

FOR HOSIERY.
Claims use since Mar. 6, 1942.

Ser. No. 451,926. CARSON PIRIE SCOTT & COMPANY, Chicago, Ill. Filed Mar. 27, 1942.

Glen Down

FOR MEN'S SWEATERS.
Claims use since Oct. 20, 1941.

Ser. No. 451,939. G. H. RAUSCHENBERG CO., Dalton, Ga. Filed Mar. 27, 1942.

"BABY BETH"

FOR INFANTS' CHENILLE ROBES.
Claims use since Mar. 19, 1942.

Ser. No. 451,940. G. H. RAUSCHENBERG CO., Dalton, Ga. Filed Mar. 27, 1942.

"LADY BETH"

FOR LADIES' CHENILLE ROBES.
Claims use since Mar. 19, 1942.

Ser. No. 451,941. G. H. RAUSCHENBERG CO., Dalton, Ga. Filed Mar. 27, 1942.

"MISS BETH"

FOR MISSES' CHENILLE ROBES.
Claims use since Mar. 19, 1942.

Ser. No. 452,003. BLUE SWAN MILLS, INC., New York, N. Y. Filed Mar. 30, 1942.

Velvikins

FOR LADIES' AND CHILDREN'S UNDERWEAR.
Claims use since June 25, 1941.

Ser. No. 452,009. DAVID CRYSTAL INC., New York, N. Y. Filed Mar. 30, 1942.

BOCA CHICA

FOR LADIES' AND MISSES' DRESSES, DRESS ENSEMBLES CONSISTING OF DRESS AND COAT.
Claims use since January, 1942.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 451,690. RELIABLE SHOULDER PAD, INC., New York, N. Y. Filed Mar. 17, 1942.

WONDERMOLD

FOR SHOULDER PADS, MUFF PADS, AND GARMENT SHIELDS.
Claims use since May 19, 1941.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 451,027. BOTANY WORSTED MILLS, Passaic, N. J. Filed Feb. 17, 1942.

DURATION

FOR WOOLEN PIECE GOODS.
Claims use since Feb. 9, 1942.

Ser. No. 451,119. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va., and New York, N. Y. Filed Feb. 20, 1942.

STARSPUN

FOR PIECE GOODS MADE OF COTTON AND RAYON.
Claims use since Aug. 1, 1941.

Ser. No. 451,128. WAWAK COMPANY INC., Chicago, Ill. Filed Feb. 20, 1942.

"Crisp-Air"

FOR PIECE GOODS—NAMELY, WOOLEN, WORSTED, AND MOHAIR SUITINGS.
Claims use since 1928.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 447,480. FRANKLIN E. HALL, Chicago, Ill. Filed Oct. 2, 1941.

DIAPEXIS MACHINE

The word "Machine" is disclaimed apart from the mark.
FOR MEDICAL APPARATUS ADAPTED FOR THE LOCAL APPLICATION OF COLD IN THE TREATMENT OF ORGANIC TISSUES.
Claims use since Nov. 7, 1940.

Ser. No. 451,691. HARRY RUBINSTEIN, New York, N. Y. Filed Mar. 17, 1942.

COMFIT SLING
ARM M-BRACE

Applicant disclaims "Sling" and "Arm M-Brace" apart from the mark.
FOR ARM SLINGS.
Claims use since Mar. 12, 1942.

Ser. No. 451,739. H. C. BLACKWOOD, doing business as Archer Dental Mfg. & Supply Co., Chicago, Ill. Filed Mar. 19, 1942.

C★THRU
TRANSPARENT

The word "Transparent" is disclaimed apart from the mark.
FOR DENTAL IMPRESSION TRAYS.
Claims use since December, 1941.

Ser. No. 451,740. H. C. BLACKWOOD, doing business as Archer Dental Mfg. & Supply Co., Chicago, Ill. Filed Mar. 19, 1942.

ViTONE

FOR ACRYLIC DENTURE MATERIAL.
Claims use since December, 1939.

CLASS 45

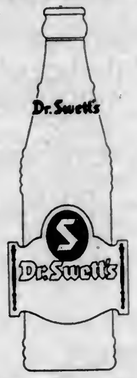
BEVERAGES, NONALCOHOLIC

Ser. No. 442,324. LA PAZ, S. A., Havana, Cuba. Filed Apr. 5, 1941.

MATERVA

FOR NON-ALCOHOLIC MALTLESS BEVERAGES SOLD AS SOFT DRINKS.
Claims use since Mar. 2, 1941.

Ser. No. 451,248. DR. SWETT'S ROOT BEER CO., INC., New York, N. Y. Filed Feb. 26, 1942.



Applicant is the owner of T. M. Reg. No. 379,782 for "Dr. Swett's", effected under the ten-year proviso. The representation of the bottle is disclaimed.
FOR ROOT BEER.
Claims use since Feb. 10, 1942.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 436,996. GRANULAR FOODS, INC., New York, N. Y. Filed Oct. 16, 1940.

Granulex Process

The word "Process" is disclaimed apart from the mark.
FOR PREPARATION OF COCONUT DEXTROSE AND OTHER INGREDIENTS FOR MAKING A FOOD BEVERAGE.
Claims use since Aug. 26, 1940.

Ser. No. 451,346. PLACENTIA PIONEER VALENCIA GROWERS ASSN., Fullerton, Calif. Filed Mar. 2, 1942.

CAL-SHINE

FOR FRESH CITRUS FRUIT.
Claims use since Feb. 17, 1942.

Ser. No. 451,347. PLACENTIA PIONEER VALENCIA GROWERS ASSN., Fullerton, Calif. Filed Mar. 2, 1942.

GOLD-SHINE

FOR FRESH CITRUS FRUIT.
Claims use since Feb. 17, 1942.

Ser. No. 451,348. PLACENTIA PIONEER VALENCIA GROWERS ASSN., Fullerton, Calif. Filed Mar. 2, 1942.

TOP-SHINE

FOR FRESH CITRUS FRUIT.
Claims use since Feb. 17, 1942.

Ser. No. 451,585. VEGEX CORPORATION, New York, N. Y. Filed Mar. 12, 1942.

VEGEX

FOR YEAST-VEGETABLE EXTRACT.
Claims use since Oct. 31, 1913.

Ser. No. 451,609. PASCO PACKING ASSOCIATION, Dade City, Fla. Filed Mar. 13, 1942.

GLEN-RAE

FOR CANNED ORANGE JUICE, CANNED GRAPEFRUIT JUICE, CANNED BLENDED ORANGE AND GRAPEFRUIT JUICE, CANNED GRAPEFRUIT SEGMENTS.
Claims use since Nov. 1, 1935.

Ser. No. 451,760. SCHENLEY DISTILLERIES, INC., New York, N. Y. Filed Mar. 18, 1942.

Soludri

FOR DISTILLERS' DRIED CORN SOLUBLES FOR USE AS CATTLE FEED AND/OR AS AN INGREDIENT THEREOF.
Claims use since Dec. 19, 1941.

Ser. No. 451,773. MUTUAL PRODUCTS COMPANY, Minneapolis, Minn. Filed Mar. 20, 1942.

Dairyade

FOR STOCK FOOD CONTAINING MILK INGREDIENTS.
Claims use since Aug. 1, 1929.

CLASS 47

WINES

Ser. No. 440,906. BARON DE RIO NEGRO, SOCIEDAD DE RESPONSABILIDAD LIMITADA, Buenos Aires, Argentina. Filed Feb. 24, 1941.



The words "Industria Argentina," the street address and telephone number, the words "Buenos Aires" and "Bodega Pineiro Sorondo Allen" are disclaimed apart from the mark.
FOR WINES.
Claims use since February, 1938.

Ser. No. 448,523. L. N. RENAULT & SONS, INC., Egg Harbor City, N. J. Filed Nov. 10, 1941. Under 10-year proviso.

RENAULT

FOR SWEET VERMOUTH AND DRY VERMOUTH.
Claims use since 1870.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 447,304. ANTONIO FREIXAS, Buenos Aires, Argentina. Filed Sept. 25, 1941.

LICOR DE LOS 8 HERMANOS

No claim is made to the word "Licor" apart from the mark.
FOR ANISEED LIQUOR.
Claims use since July 19, 1939.

Ser. No. 450,226. JOHN DEWAR & SONS LIMITED, Perth, Scotland, and London, England. Filed Jan. 15, 1942.

"White Label"
FINEST SCOTCH WHISKY
OF GREAT AGE.
John Dewar & Sons Ltd
DISTILLERS.
PERTH
SCOTLAND

All wording except "White Label" is disclaimed apart from the mark, as is also the right to use of a white label.
FOR WHISKY.
Claims use since 1913.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 447,428. EDWARD M. BURNHAM, San Francisco, Calif. Filed Sept. 30, 1941.

TOT-UM HOME

FOR TOTEM POLES FOR STORE ADVERTISING.
Claims use since Sept. 8, 1941.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MAY 19, 1942

395,210. CHEMICAL COMPOUND USED IN DESULPHATING LEAD PLATE BATTERIES. FRED HOMER WALLACE, Frankford, Mo.
Filed April 18, 1939. Serial No. 418,426. PUBLISHED SEPTEMBER 12, 1939. Class 6.

395,211. CANDY. ROBERT H. MCELROY, JR., Chicago, Ill.
Filed August 14, 1939. Serial No. 422,590. PUBLISHED MARCH 10, 1942. Class 46.

395,212. MOLDED RUBBER GOODS—NAMELY, WIRE GROMMETS USED IN HOLES, CASTER WHEELS, BUSHINGS FOR SEPARATING CONNECTED MEMBERS, AND VALVE BASES. THE GENERAL TIRE & RUBBER COMPANY, Akron, Ohio.
Filed December 18, 1939. Serial No. 426,695. PUBLISHED MARCH 10, 1942. Class 13.

395,213. STRAINED FOODS FOR BABIES—NAMELY, FRUITS, VEGETABLES, SOUPS CONTAINING NO MEAT, CEREALS AND CHICKEN IN SEALED CONTAINERS. BROWNIE FOOD COMPANY, Detroit, Mich.
Filed January 24, 1940. Serial No. 427,790. PUBLISHED MARCH 10, 1942. Class 46.

395,214. MALTLESS NONALCOHOLIC BEVERAGES SOLD AS SOFT DRINKS, SUCH AS ORANGE DRINKS, PINEAPPLE DRINKS, AND FRUIT BEVERAGES. TOURLAINE FOOD PRODUCTS, INC., Chicago, Ill.
Filed August 31, 1940. Serial No. 435,595. PUBLISHED APRIL 8, 1941. Class 45.

395,215. CANNED FISH. WESTGATE SEA PRODUCTS CO., San Diego, Calif.
Filed November 4, 1940. Serial No. 437,588. PUBLISHED JUNE 10, 1941. Class 46.

395,216. INNER SOLES FOR SHOES. INTERNATIONAL SHOE COMPANY, St. Louis, Mo.
Filed November 8, 1940. Serial No. 437,683. PUBLISHED MARCH 3, 1942. Class 39.

395,217. WHISKEY. J. A. DOUGHERTY'S SONS, INCORPORATED, DISTILLERS, Philadelphia, Pa.
Filed November 19, 1940. Serial No. 438,040. PUBLISHED MARCH 3, 1942. Class 49.

395,218. APPARATUS FUNCTIONING TO RECORD AND REPRODUCE SOUND ELECTRICALLY. ACOUSTIC CONSULTANTS, INC., New York, N. Y.
Filed November 20, 1940. Serial No. 438,062. PUBLISHED MARCH 10, 1942. Class 21.

395,219. SIGNALLING DEVICES—NAMELY, ELECTRIC FLASH LAMPS, AND LANTERNS. GEMLOID CORPORATION, Elmhurst, Long Island, N. Y.
Filed December 19, 1940. Serial No. 439,018. PUBLISHED MARCH 10, 1942. Class 21.

395,220. MAGNESIUM HYDROXIDE PASTE. MARINE MAGNESIUM PRODUCTS CORPORATION, South San Francisco, Calif.
Filed December 28, 1940. Serial No. 439,252. PUBLISHED MARCH 10, 1942. Class 6.

395,221. DENTAL, MEDICAL, AND SURGICAL APPLIANCES—NAMELY, FORCEPS, SCALPELS, SCISSORS, LANCETS, URINOMETERS, HEAD MIRRORS, HEMOGLOBINOMETERS, HEMACYTOMETERS, STETHOSCOPES, CASES FOR DISSECTING INSTRUMENTS. CLAY-ADAMS CO., INC., New York, N. Y.
Filed January 2, 1941. Serial No. 439,330. PUBLISHED MARCH 10, 1942. Class 44.

395,222. LADIES' AND CHILDREN'S SHOES AND SLIPPERS IN LEATHER OR FABRIC AND COMBINATIONS THEREOF. LA MARQUISE SLIPPER CO., INC., New York, N. Y., assignor to La Marquise Footwear, Inc., a corporation of New York.
Filed January 2, 1941. Serial No. 439,350. PUBLISHED MARCH 3, 1942. Class 39.

395,223. INTESTINAL LUBRICANT. UNITED CIGAR-WHELAN STORES CORPORATION, New York, N. Y.
Filed January 8, 1941. Serial No. 439,500. PUBLISHED MARCH 10, 1942. Class 6.

395,224. LAXATIVE. UNITED CIGAR-WHELAN STORES CORPORATION, New York, N. Y.
Filed January 8, 1941. Serial No. 439,504. PUBLISHED MARCH 10, 1942. Class 6.

395,225. SECTION OF A MAGAZINE. LOOK, INC., Des Moines, Iowa.
Filed January 16, 1941. Serial No. 439,721. PUBLISHED MARCH 3, 1942. Class 38.

395,226. CIGARETTE CASES. THE SPRINGFIELD LEATHER PRODUCTS COMPANY, Springfield, Ohio.
Filed January 16, 1941. Serial No. 439,731. PUBLISHED MARCH 10, 1942. Class 8.

395,227. AIR CONDITIONING DUCTS. B. & J. JACOBS COMPANY, Cincinnati, Ohio.
Filed January 22, 1941. Serial No. 439,869. PUBLISHED MARCH 10, 1942. Class 34.

395,228. BUILDING SIDING MATERIAL. MASTIC ASPHALT CORPORATION, South Bend, Ind.
Filed February 12, 1941. Serial No. 440,605. PUBLISHED FEBRUARY 24, 1942. Class 12.

395,229. FABRIC GLOVES. LEWIS & LOCKE, INC., New York, N. Y.
Filed February 21, 1941. Serial No. 440,865. PUBLISHED AUGUST 19, 1941. Class 39.

395,230. WINES. THE HILL DISTRIBUTING COMPANY, Columbus, Ohio.
Filed February 24, 1941. Serial No. 440,935. PUBLISHED JUNE 17, 1941. Class 47.

395,231. EGGS, LIVE AND DRESSED POULTRY, TURKEYS, DUCKS, GEESE, AND BUTTER. LITCHFIELD PRODUCE CO., Litchfield, Minn.
Filed March 4, 1941. Serial No. 441,210. PUBLISHED MARCH 10, 1942. Class 46.

395,232. CHESTS, TABLES, BEDS, CHAIRS, DRESSERS, HIGHBOYS, COMMODES, CHAISES LONGUES, ETC. HISTORICAL JAMES RIVER PLANTATIONS CO., Portsmouth, Va.
Filed March 11, 1941. Serial No. 441,435 PUBLISHED MARCH 10, 1942. Class 32.

395,233. NECKTIES. THE ARTISTIC NECKWEAR MFG. CO., Baltimore, Md.
Filed April 5, 1941. Serial No. 442,297. PUBLISHED OCTOBER 14, 1941. Class 39.

395,234. MEN'S AND BOYS' NECKTIES. ELMER E. SHAFFER, doing business as Clover Cravat Company, Philadelphia, Pa.
Filed April 15, 1941. Serial No. 442,604. PUBLISHED SEPTEMBER 30, 1941. Class 39.

395,235. WHISK BROOMS, CLOTHES BRUSHES, AND HAIR BRUSHES. CHASE BRASS & COPPER CO. INCORPORATED, Waterbury, Conn.
Filed April 30, 1941. Serial No. 443,113. PUBLISHED FEBRUARY 24, 1942. Class 29.

395,236. CORSETS, GIRDLES, AND BRASSIÈRES. DOMINION CORSET COMPANY, LIMITED, Quebec, Quebec, Canada.
Filed May 5, 1941. Serial No. 443,247. PUBLISHED MARCH 3, 1942. Class 39.

395,237. ELECTRIC HAND DRILLS. KNAPP-MONARCH COMPANY, doing business as Kwikway Company, St. Louis, Mo.
Filed May 7, 1941. Serial No. 443,332. PUBLISHED MARCH 10, 1942. Class 21.

395,238. SCRIPTS FOR RADIO BROADCASTS ISSUED FROM TIME TO TIME. CHARLES M. CROWE, St. Louis, Mo.
Filed May 15, 1941. Serial No. 443,598. PUBLISHED MARCH 10, 1942. Class 38.

395,239. FURNITURE SLIP COVERS. THE COMFY MANUFACTURING COMPANY, Baltimore, Md.
Filed June 18, 1941. Serial No. 444,633. PUBLISHED MARCH 10, 1942. Class 32.

395,240. OUTER SHIRTS, SLACKS, SUITS, NECKTIES, OUTER SHORTS, SWIMMING TRUNKS, AND BATHING SUITS, INTENDED FOR WEAR BY MEN, WOMEN, AND CHILDREN. SILAS K. EVERETT, New York, N. Y.
Filed June 18, 1941. Serial No. 444,638. PUBLISHED MARCH 3, 1942. Class 39.

395,241. NEGLIGEE SHIRTS, SPORT SHIRTS, WORK SHIRTS, DRESS SHIRTS, UNDERSHIRTS, UNDER SHORTS, UNDERWEAR, OUTER SHORTS AND SLACKS, HATS, NECKTIES, WORK PANTS, DRESS PANTS, CAPS, AND SCARFS FOR MEN AND BOYS. S. S. KRESGE COMPANY, Detroit, Mich.
Filed July 24, 1941. Serial No. 445,607. PUBLISHED MARCH 10, 1942. Class 39.

395,242. RAW POTATOES. ANDREWS & KNOWLES PRODUCE COMPANY, INC., Mount Olive, N. C.
Filed July 31, 1941. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 445,788. PUBLISHED MARCH 10, 1942. Class 46.

395,243. GAS FIRED OVENS AND BURNERS, THE BURNERS COMPRISING ESSENTIALLY A GAS BURNER OF METAL AND REFRACTORY CERAMIC ELEMENTS AGAINST WHICH, OR IN PROXIMITY TO WHICH, THE FLAME FROM THE METAL BURNER BURNS. THE CLEVELAND CO-OPERATIVE STOVE COMPANY, Cleveland, Ohio.
Filed July 31, 1941. Serial No. 445,802. PUBLISHED MARCH 10, 1942. Class 34.

395,244. BI-MONTHLY PUBLICATION CONTAINING ARTICLES RELATING TO NATURAL RESOURCES, CULTURE, INDUSTRIES, AND COMMERCE OF THE PAN-AMERICAN COUNTRIES. EDWARD H. ROTT, Bogota, Colombia.
Filed September 4, 1941. Serial No. 446,827. PUBLISHED MARCH 3, 1942. Class 38.

395,245. WOMEN'S, MISSES', AND CHILDREN'S GIRDLES, PANTY GIRDLES, CORSETS, BRASSIÈRES; LINGERIE—NAMELY, PANTIES, SLIPS, ETC. A. B. HAMMETT, INC., Los Angeles, Calif.
Filed September 8, 1941. Serial No. 446,872. PUBLISHED MARCH 3, 1942. Class 39.

395,246. WINES. ACAMPO WINERY AND DISTILLERIES, INCORPORATED, Acampo, Calif.
Filed September 12, 1941. Serial No. 446,983. PUBLISHED MARCH 10, 1942. Class 47.

395,247. BOILER COMPOUND FOR THE PREVENTION OF DELETERIOUS ACTION OF WATER WHEN USED IN STEAM BOILERS. DEARBORN CHEMICAL COMPANY, Chicago, Ill.
Filed September 13, 1941. Serial No. 447,012. PUBLISHED MARCH 10, 1942. Class 6.

395,248. CELLULAR STEEL BEAM UNITS FOR BUILDING PURPOSES. H. H. ROBERTSON COMPANY, Pittsburgh, Pa.
Filed September 13, 1941. Serial No. 447,031. PUBLISHED FEBRUARY 24, 1942. Class 12.

395,249. BICYCLES. THE COLSON CORPORATION, Elyria, Ohio.
Filed September 17, 1941. Serial No. 447,096. PUBLISHED MARCH 10, 1942. Class 19.

395,250. GELATINE DESSERTS. CHARLES M. SHAPERA, doing business as Emes Kosher Products, Chicago, Ill.
Filed October 9, 1941. Serial No. 447,642. PUBLISHED MARCH 10, 1942. Class 46.

395,251. SANDWICHES. KENNETH E. BEMIS, Oakland, Calif.
Filed October 20, 1941. Serial No. 447,930. PUBLISHED MARCH 10, 1942. Class 46.

395,252. FRESH VEGETABLES—NAMELY, FRESH CELERY. D'ARRIGO BROTHERS CO., San Jose, Calif.
Filed October 20, 1941. Serial No. 447,936. PUBLISHED MARCH 10, 1942. Class 46.

395,253. WINES. FRUIT INDUSTRIES, LTD., San Francisco, Calif., Chicago, Ill., and Brooklyn, N. Y.
Filed October 27, 1941. Serial No. 448,133. PUBLISHED MARCH 3, 1942. Class 47.

395,254. BABIES' DIAPERS, BABIES' DIAPER OUTFITS CONSISTING OF A WATERPROOF HOLDER AND A DISPOSABLE DIAPER PAD, AND WATERPROOF HOLDERS AND DISPOSABLE DIAPER PADS FOR USE WITH SAID OUTFITS. CHICOPEE SALES CORPORATION, New York, N. Y.
Filed October 28, 1941. Serial No. 448,184. PUBLISHED MARCH 3, 1942. Class 39.

395,255. INDUSTRIAL POWER TRUCKS. TOWMOTOR CO., Cleveland, Ohio.
Filed October 30, 1941. Serial No. 448,270. PUBLISHED MARCH 10, 1942. Class 19.

395,256. NECKTIES, CRAVATS, AND SCARFS. CHENEY BROTHERS, Manchester, Conn., and New York, N. Y.
Filed October 31, 1941. Serial No. 448,280. PUBLISHED MARCH 3, 1942. Class 39.

395,257. DRIED LENTILS, DRIED PEA BEANS, DRIED MARROW BEANS, DRIED GREEN SPLIT PEAS, ETC. THE GRAHAM CO. INC., New York, N. Y.
Filed October 31, 1941. Serial No. 448,290. PUBLISHED MARCH 10, 1942. Class 46.

395,258. WOODEN BARRELS, AND STAVES, HEADINGS AND SHOOKS THEREFOR. LUCAS E. MOORE STAVE CO., OF GA., Mobile, Ala.
Filed October 31, 1941. Serial No. 448,296. PUBLISHED MARCH 10, 1942. Class 2.

395,259. BATTERY SEPARATORS. WESTERN COOPERAGE COMPANY, Portland, Oreg.
Filed November 1, 1941. Serial No. 448,350. PUBLISHED MARCH 10, 1942. Class 21.

395,260. CUP TYPE AND REED TYPE MOUTHPIECES FOR MUSICAL INSTRUMENTS. PAN AMERICAN BAND INSTRUMENT AND CASE COMPANY, Elkhart, Ind.
Filed November 3, 1941. Serial No. 448,370. PUBLISHED MARCH 10, 1942. Class 36.

395,261. TRANSPARENT PRESSURE-SEALING ADHESIVE TAPE. INTERNATIONAL PLASTIC CORPORATION, Chicago, Ill.
Filed November 8, 1941. Serial No. 448,475. PUBLISHED MARCH 10, 1942. Class 5.

395,262. WOMEN'S, MISSES, AND CHILDREN'S COATS, DRESSES, HATS, BATHING SUITS, BLOUSES, OUTERSKIRTS, SLACKS, SHORTS, SUNSUITS, SPORT SOCKS, AND SWEATERS. THE SCOTT-BURR STORES CORPORATION, Chicago, Ill.
Filed November 10, 1941. Serial No. 448,528. PUBLISHED MARCH 3, 1942. Class 39.

395,263. HOUSE-ORGAN PUBLICATIONS ISSUED AT REGULAR INTERVALS. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed November 12, 1941. Serial No. 448,557. PUBLISHED MARCH 3, 1942. Class 38.

395,264. BRANDY. HENRY KELLY IMPORTING & DISTRIBUTING CO. INC., New York, N. Y.
Filed November 13, 1941. Serial No. 448,615. PUBLISHED MARCH 3, 1942. Class 49.

395,265. INFANTS' DRESSES, CARRIAGE SUITS, COAT AND BONNET SETS, BUNTINGS, NIGHT GUARDS (SLEEPING BAG), HOSIERY, GOWNS, WRAPPERS, SLIPS, CREEPERS, DIAPER PANTIES, UNDERWEAR, AND SHOULDER BANDS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed November 14, 1941. Serial No. 448,660. PUBLISHED MARCH 3, 1942. Class 39.

395,266. WINES. PEOPLES DISTRIBUTING COMPANY, INC., Covington, Ky., and Cincinnati, Ohio.
Filed November 15, 1941. Serial No. 448,681. PUBLISHED MARCH 10, 1942. Class 47.

395,267. PLASTER REINFORCEMENT AND PLASTER BASE. REYNOLDS METALS COMPANY, Richmond, Va.
Filed November 18, 1941. Serial No. 448,738. PUBLISHED FEBRUARY 24, 1942. Class 12.

395,268. PHOTOGRAPHIC PRINTS OF FURNITURE LAID OUT IN MINIATURE FORM IN VARIOUS ROOMS OF DWELLINGS. EASTERN-COLUMBIA, INC., Los Angeles and Huntington Park, Calif.
Filed November 19, 1941. Serial No. 448,757. PUBLISHED MARCH 3, 1942. Class 38.

395,269. VITAMIN PRODUCTS AND SPECIFICALLY A PHARMACEUTICAL PRODUCT CONTAINING VITAMINS A AND D. LEDERLE LABORATORIES, INC., New York, N. Y.
Filed November 19, 1941. Serial No. 448,762. PUBLISHED MARCH 10, 1942. Class 6.

395,270. LAMINATED BOARDS MADE FROM SHEETS BONDED WITH LIGNIN RESIN. MARATHON PAPER MILLS COMPANY, Rothschild, Wis.
Filed November 19, 1941. Serial No. 448,764. PUBLISHED FEBRUARY 24, 1942. Class 12.

395,271. SERIES OF TEXT BOOKS. AMERICAN EDUCATION PRESS, INC., Columbus, Ohio.
Filed November 24, 1941. Serial No. 448,843. PUBLISHED MARCH 10, 1942. Class 38.

395,272. PERIODICAL PUBLICATION. STREET & SMITH PUBLICATIONS, INC., New York, N. Y.
Filed November 25, 1941. Serial No. 448,926. PUBLISHED MARCH 10, 1942. Class 38.

395,273. RUM. ANGEL P. JULIÁ, doing business as Cia Licorera Julia, Barrio Obrero, Santurce, P. R.
Filed November 26, 1941. Serial No. 448,944. PUBLISHED MARCH 10, 1942. Class 49.

395,274. CANDY. E. J. BRACH & SONS, Chicago, Ill.
Filed November 27, 1941. Serial No. 448,959. PUBLISHED MARCH 10, 1942. Class 46.

395,275. NECKTIES. CHENEY BROTHERS, Manchester, Conn., and New York, N. Y.
Filed November 27, 1941. Serial No. 448,963. PUBLISHED MARCH 3, 1942. Class 39.

395,276. DRESSED TURKEYS. FLODEN BROS., Modesto, Calif.
Filed November 27, 1941. Serial No. 448,968. PUBLISHED MARCH 10, 1942. Class 46.

395,277. MONTHLY MAGAZINE DEVOTED TO THE MOTION PICTURE INDUSTRY. TRIANGLE PUBLICATIONS, INC., Philadelphia, Pa.
Filed November 27, 1941. Serial No. 448,990. PUBLISHED MARCH 10, 1942. Class 38.

395,278. COMBINATION WASHING, BLUEING, AND WATER SOFTENER. BU-TAY PRODUCTS, INC., Huntington Park, Calif.
Filed November 29, 1941. Serial No. 449,036. PUBLISHED MARCH 10, 1942. Class 6.

395,279. DRIED YEAST. VITA-YEAST COMPANY, LTD., New York, N. Y.
Filed November 29, 1941. Serial No. 449,073. PUBLISHED MARCH 10, 1942. Class 46.

395,280. WHEAT GERM. MOTHER HUBBARD DISTRIBUTORS INC., New York, N. Y.
Filed December 1, 1941. Serial No. 449,081. PUBLISHED MARCH 10, 1942. Class 46.

395,281. COSMETIC AND TOILET PREPARATIONS—NAMELY, SKIN CREAMS, CLEANSING CREAMS, SKIN LOTIONS, SKIN FRESHENERS, SKIN OIL POWDER BASE, FACE POWDER, AND BRILLIANTINE. THE VITA-RAY CORPORATION, Lowell, Mass.
Filed December 2, 1941. Serial No. 449,109. PUBLISHED MARCH 10, 1942. Class 6.

395,282. LIQUEUR. R. C. WILLIAMS & COMPANY, INC., New York, N. Y.
Filed December 2, 1941. Serial No. 449,111. PUBLISHED MARCH 10, 1942. Class 49.

395,283. NECKTIES. CHENEY BROTHERS, Manchester, Conn., and New York, N. Y.
Filed December 3, 1941. Serial No. 449,125. PUBLISHED MARCH 3, 1942. Class 39.

395,284. HONEY AND CANDY. WALTER DIEHNELT, doing business as Honey Acres, Menomonee Falls, Wis.
Filed December 3, 1941. Serial No. 449,131. PUBLISHED MARCH 10, 1942. Class 46.

395,285. PUBLICATION OF CARTOONS AND EDITORIAL MATTER, ISSUED QUARTERLY. NOVELTY PRESS INC., New York, N. Y.
Filed December 3, 1941. Serial No. 449,149. PUBLISHED MARCH 3, 1942. Class 38.

395,286. CIGARS, CIGARETTES, AND CHEROOTS. M & N CIGAR MANUFACTURERS, INC., Cleveland, Ohio.
Filed December 4, 1941. Serial No. 449,185. PUBLISHED MARCH 10, 1942. Class 17.

395,287. PRINTED COUPON BOOKS IN BOOKLET FORM AND READY FOR USE EXCEPT FOR THE APPLICATION OF A DATE STAMP, PRINTED CARDBOARD SIGNS FOR WINDOW AND OTHER DISPLAY USE, AND PRINTED LEAFLETS FOR ADVERTISING PURPOSES SOLD AS SUCH. RAND MCNALLY & COMPANY, Chicago, Ill.
Filed December 5, 1941. Serial No. 449,214. PUBLISHED MARCH 10, 1942. Class 38.

395,288. NEWSPAPER COLUMN. TRIBUNE COMPANY, Chicago, Ill.
Filed December 10, 1941. Serial No. 449,362. PUBLISHED MARCH 3, 1942. Class 38.

395,289. NONALCOHOLIC MALTLESS BOTTLED BEVERAGES AND NONALCOHOLIC MALTLESS BEVERAGE CONCENTRATE. JUDGE & DOLPH, LTD., Chicago, Ill.
Filed December 13, 1941. Serial No. 449,531. PUBLISHED MARCH 10, 1942. Class 45.

395,290. ELECTRICAL SOUND RECORDING MACHINES AND PARTS THEREOF. DICTAPHONE CORPORATION, Bridgeport, Conn.
Filed December 17, 1941. Serial No. 449,546. PUBLISHED MARCH 10, 1942. Class 21.

395,291. MEDICAL COMPOUND FOR TREATING ARTHRITIS. DIOSMA LABORATORIES, INC., Bloomfield and Newark, N. J.
Filed December 19, 1941. Serial No. 449,605. PUBLISHED MARCH 10, 1942. Class 6.

395,292. PERFUME. LUCKY HEART LABORATORIES, INC., Memphis, Tenn.
Filed December 20, 1941. Serial No. 449,647. PUBLISHED MARCH 10, 1942. Class 6.

395,293. FRUIT JUICE COCKTAILS. HOWARD PRESERVING COMPANY, INC., Miami, Fla.
Filed December 20, 1941. Serial No. 449,657. PUBLISHED MARCH 10, 1942. Class 46.

395,294. WHEAT FLOUR. PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn.
Filed December 22, 1941. Serial No. 449,698. PUBLISHED MARCH 10, 1942. Class 46.

395,295. INSECTICIDES. STAUFFER CHEMICAL COMPANY, San Francisco, Calif.
Filed December 22, 1941. Serial No. 449,705. PUBLISHED MARCH 10, 1942. Class 6.

395,296. FRESH CITRUS FRUITS. IVANHOE MUTUAL ORANGE ASSOCIATION, Ivanhoe, Calif.
Filed December 23, 1941. Serial No. 449,724. PUBLISHED MARCH 10, 1942. Class 46.

395,297. WINES. ATLAS DISTRIBUTING CORPORATION, Worcester, Mass.
Filed December 26, 1941. Serial No. 449,750. PUBLISHED MARCH 10, 1942. Class 47.

395,298. GINGER BEER. COCK 'N BULL PRODUCTS, Los Angeles, Calif.
Filed December 26, 1941. Serial No. 449,763. PUBLISHED MARCH 10, 1942. Class 45.

395,299. CANNED OLIVES. OLD RANCHERS COMPANY, Ontario, Calif.
Filed December 27, 1941. Serial No. 449,804. PUBLISHED MARCH 10, 1942. Class 46.

395,300. SHOES AND SLIPPERS MADE OF LEATHER, FABRIC, AND COMBINATIONS OF LEATHER AND FABRIC. COBBLERS, INC., Los Angeles, Calif.
Filed December 29, 1941. Serial No. 449,829. PUBLISHED MARCH 3, 1942. Class 39.

395,301. MODELING CLAY AND MODELING MATERIALS SUCH AS CLAY FLOUR, PLASTIC WOOD, POTTERY CLAY, BALSA WOOD, BASSWOOD, REEDS, RATTAN, CANE, RAFFIA, AND CHAIR CANING. MILTON BRADLEY COMPANY, Springfield, Mass.
Filed December 31, 1941. Under section 5b of the act of 1905 as amended in 1926. Serial No. 449,884. PUBLISHED MARCH 10, 1942. Class 1.

395,302. DRAWING PAPER, TRACING PAPER, CHARCOAL PAPER, ILLUSTRATION BOARDS, BRISTOL BOARD, POSTER BOARD, ETC. MILTON BRADLEY COMPANY, Springfield, Mass.
Filed December 31, 1941. Under section 5b of the act of 1905 as amended in 1920. Serial No. 449,890. PUBLISHED MARCH 10, 1942. Class 37.

395,303. CANDY BARS. CANDYMASTERS INCORPORATED, Minneapolis, Minn.
Filed December 31, 1941. Serial No. 449,892. PUBLISHED MARCH 10, 1942. Class 46.

395,304. PARTICULATE CARBON HAVING A GENERAL USE IN THE INDUSTRIAL ARTS. COLUMBIAN CARBON COMPANY, New York, N. Y.
Filed December 31, 1941. Serial No. 449,894. PUBLISHED MARCH 10, 1942. Class 6.

395,305. LAMINATED SAFETY GLASS. LIBBEY-OWENS-FORD GLASS COMPANY, Toledo, Ohio.
Filed January 1, 1942. Serial No. 449,942. PUBLISHED MARCH 10. 1942. Class 33.

395,306. DEODORANT POWDER. THE EMBALMERS' SUPPLY COMPANY, Westport, Conn.
Filed January 2, 1942. Serial No. 449,958. PUBLISHED MARCH 10, 1942. Class 6.

395,307. SHOES MADE OF LEATHER, FABRIC AND/OR COMBINATIONS THEREOF. CANNON SHOE COMPANY, Baltimore, Md.
Filed January 5, 1942. Serial No. 449,987. PUBLISHED MARCH 10, 1942. Class 39.

395,308. OXYGEN. THE LINDE AIR PRODUCTS COMPANY, New York, N. Y.
Filed January 3, 1942. Serial No. 450,006. PUBLISHED MARCH 10, 1942. Class 6.

395,309. OXYGEN. THE LINDE AIR PRODUCTS COMPANY, New York, N. Y.
Filed January 3, 1942. Serial No. 450,007. PUBLISHED MARCH 10. 1942. Class 6.

395,310. HAIR LOTIONS—NAMELY, PERMANENT WAVING SOLUTIONS. GILDA AUDREY PRODUCTS, INC., New York, N. Y.
Filed January 6, 1942. Serial No. 450,012. PUBLISHED MARCH 10, 1942. Class 6.

395,311. FURNITURE—NAMELY, BEDS, DRESSERS, CHIFFONIERS, DRESSING TABLES, CHAIRS, DAVENPORTS, LOVE SEATS, TABLES, BOOKCASES, DESKS, SECRETARIES, BUFFETS, SERVING TABLES, AND DINETTE SETS. THE MAY DEPARTMENT STORES COMPANY, New York, N. Y., Baltimore, Md., Cleveland, Ohio, Los Angeles, Calif., and Denver, Colo., also doing business as Famous-Barr Company, St. Louis, Mo., and also as The M. O'Neil Co., Akron, Ohio.
Filed January 6, 1942. Serial No. 450,017. PUBLISHED MARCH 10, 1942. Class 32.

395,312. WALL CALENDARS. SHAW-BARTON, INC., Coshocton, Ohio.
Filed January 6, 1942. Serial No. 450,027. PUBLISHED MARCH 10, 1942. Class 38.

395,313. WALL CALENDARS. SHAW-BARTON, INC., Coshocton, Ohio.
Filed January 6, 1942. Serial No. 450,028. PUBLISHED MARCH 10, 1942. Class 38.

395,314. PREPARATION FOR ASTHMA AND BRONCHITIS. HELEN BERMAN, doing business as Character Products, New York, N. Y.
Filed January 7, 1942. Serial No. 450,044. PUBLISHED MARCH 10, 1942. Class 6.

395,315. PREPARATION USED TO CONDITION WATER USED IN BOILERS IN THE GENERATION OF STEAM. THE BIRD-ARCHER CO., New York, N. Y.
Filed January 7, 1942. Serial No. 450,046. PUBLISHED MARCH 10, 1942. Class 6.

395,316. POULTRY FEED—NAMELY, INGREDIENTS USED IN POULTRY MASHES. RALPH T. FOX, doing business as The Fox Company, Newfield, N. J.
Filed January 7, 1942. Serial No. 450,048. PUBLISHED MARCH 10, 1942. Class 46.

395,317. SECTIONS OF PERIODICAL PUBLICATIONS. UNITED STATES NEWS PUBLISHING CORPORATION, Washington, D. C.
Filed January 12, 1942. Serial No. 450,171. PUBLISHED MARCH 10, 1942. Class 38.

395,318. FOOT POWDER. WILLIAMS PRODUCTS COMPANY, Columbus, Ga.
Filed January 12, 1942. Serial No. 450,173. PUBLISHED MARCH 10, 1942. Class 6.

395,319. MEDICINAL, PHARMACEUTICAL, AND CHEMICAL PREPARATIONS—NAMELY MEDICINAL PREPARATIONS RECOMMENDED FOR THE TREATMENT OF DISORDERS OF THE STOMACH, ETC. SCHERING CORPORATION, Bloomfield, N. J.
Filed January 14, 1942. Serial No. 450,212. PUBLISHED MARCH 10, 1942. Class 6.

395,320. SKIN AND SCALP LOTION. SYLVIA TORO, doing business as Toro Products, Brooklyn, N. Y.
Filed January 15, 1942. Serial No. 450,254. PUBLISHED MARCH 10, 1942. Class 6.

395,321. MONOCALCIUM PHOSPHATE AND OTHER CHEMICALS FOR USE AS INGREDIENTS OF BAKING POWDERS, LEAVENING AGENTS, SELF-RISING FLOURS AND SIMILAR BAKING PREPARATIONS. MONSANTO CHEMICAL COMPANY, St. Louis, Mo.
Filed January 22, 1942. Serial No. 450,401. PUBLISHED MARCH 10, 1942. Class 6.

395,322. STUFFED TOYS—NAMELY, STUFFED DOLLS AND ANIMAL FIGURES. J. SWEDLIN, INC., New York, N. Y.
Filed January 23, 1942. Serial No. 450,433. PUBLISHED MARCH 10, 1942. Class 22.

395,323. SOOTHING, COOLING, AND ASTRINGENT POWDER. PLOUGH, INC., Memphis, Tenn.
Filed January 24, 1942. Serial No. 450,456. PUBLISHED MARCH 10, 1942. Class 6.

395,324. ANTIMYCOTIC POWDER INDICATED IN THE TREATMENT AND PREVENTION OF ATHLETE'S FOOT. ABBOTT LABORATORIES, North Chicago, Ill.
Filed January 26, 1942. Serial No. 450,466. PUBLISHED MARCH 10, 1942. Class 6.

395,325. VACCINE FOR THE PREVENTION OF CHOLERA IN SWINE. CUTTER LABORATORIES, Berkeley, Calif.
Filed January 26, 1942. Serial No. 450,472. PUBLISHED MARCH 10, 1942. Class 6.

395,326. MIXED BACTERIN FOR THE PREVENTION AND TREATMENT OF RESPIRATORY INFECTIONS IN CATTLE. CUTTER LABORATORIES, Berkeley, Calif.
Filed January 26, 1942. Serial No. 450,473. PUBLISHED MARCH 10, 1942. Class 6.

395,327. PREPARATION USED IN THE TREATMENT OF SYPHILITIC AND RELATED TYPES OF INFECTIONS. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed January 26, 1942. Serial No. 450,489. PUBLISHED MARCH 10, 1942. Class 6.

395,328. HEMORRHAGIC PRODUCING DRUG. ENDO PRODUCTS, INC., New York, N. Y.
Filed January 27, 1942. Serial No. 450,506. PUBLISHED MARCH 10, 1942. Class 6.

395,329. OINTMENT USED AS AN AID FOR MINOR OR SUPERFICIAL CUTS, CHAFES, AND ABRASIONS. TROY CHEMICAL CO., Binghamton, N. Y.
Filed January 27, 1942. Serial No. 450,523. PUBLISHED MARCH 10, 1942. Class 6.

395,330. NOSE DROPS USED IN CONNECTION WITH THE TREATMENT OF HAY FEVER AND HEADACHES RESULTING FROM THE SAME AND FOR MASSAGE OIL USED FOR MASSAGING THE BODY IN THE TREATMENT OF RHEUMATIC OR MUSCULAR ACHES AND PAINS. N. O. NICKELBERRY, Mineral Wells, Tex.
Filed January 29, 1942. Serial No. 450,571. PUBLISHED MARCH 10, 1942. Class 6.

395,331. LIPSTICKS, FACE POWDERS, FACE CREAMS, AND FACE AND HAND LOTIONS. HELENA RUBINSTEIN, INC., New York, N. Y.
Filed January 29, 1942. Serial No. 450,573. PUBLISHED MARCH 10, 1942. Class 6.

395,332. MEDICINE FOR STIMULATION OF THE NERVOUS SYSTEM, FOR VASOCONSTRICTION AND OTHER THERAPEUTIC CONDITIONS. SMITH, KLINE & FRENCH LABORATORIES, Philadelphia, Pa.
Filed January 29, 1942. Serial No. 450,575. PUBLISHED MARCH 10, 1942. Class 6.

395,333. PREPARATION CONSISTING OF A COMBINATION OF VITAMINS. ENDO PRODUCTS, INC., New York, N. Y.
Filed January 30, 1942. Serial No. 450,584. PUBLISHED MARCH 10, 1942. Class 6.

395,334. FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, ETC. COTY, INC., New York, N. Y.
Filed January 31, 1942. Serial No. 450,621. PUBLISHED MARCH 10, 1942. Class 6.

395,335. FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ETC. COTY, INC., New York, N. Y.
Filed January 31, 1942. Serial No. 450,622. PUBLISHED MARCH 10, 1942. Class 6.

395,336. FACE BLEACH, SKIN WHITENING CREAM, EYEBROW PENCIL, POMADE, FACE POWDER, TALCUM POWDER, ETC. THE DANDRO-NOX CO., Baltimore, Md.
Filed February 2, 1942. Serial No. 450,642. PUBLISHED MARCH 10, 1942. Class 6.

395,337. SUN TAN LOTION AND SUNBURN LOTION. JEROME A. MEUSEL, Baltimore, Md.
Filed February 2, 1942. Serial No. 450,654. PUBLISHED MARCH 10, 1942. Class 6.

395,338. LAXATIVE COMPOUNDS. HELEN A. BALLACK, INC., Detroit, Mich.
Filed February 3, 1942. Serial No 450,673. PUBLISHED MARCH 10, 1942. Class 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

395,339. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) UHLEMANN OPTICAL CO., Chicago, Ill.

NUEST

Filed Feb. 16, 1940. Serial No. 428,630.
FOR OPHTHALMIC MOUNTINGS.
Claims use since January, 1940.

395,340. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) C. M. HALL LAMP COMPANY, Detroit, Mich. Filed May 22, 1940. Serial No. 432,218.

THERMALAMP

FOR APPARATUS CONSISTING OF A PLURALITY OF ELECTRIC LAMPS SO ARRANGED AS TO DIRECT THE RAYS THEREOF TOWARD PAINTED OR LACQUERED ARTICLES IN ORDER TO FACILITATE THE DRYING OR BAKING OF THE SAME.
Claims use since Apr. 29, 1940.

395,341. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) C. M. HALL LAMP COMPANY, Detroit, Mich. Filed May 22, 1940. Serial No. 432,219.

HALL
THERMALAMP

FOR APPARATUS CONSISTING OF A PLURALITY OF ELECTRIC LAMPS SO ARRANGED AS TO DIRECT

THE RAYS THEREOF TOWARD PAINTED OR LACQUERED ARTICLES IN ORDER TO FACILITATE THE DRYING OR BAKING OF THE SAME.
Claims use since Apr. 29, 1940.

395,342. (CLASS 47. WINES.) SOCIETE ANONYME DE MAGENTA-EPERNAY, Epernay, France. Filed July 1, 1940. Serial No. 423,584.

GARNIER

TRADE MARK

H. Garnier & Co

CHAMPAGNE

Epernay

FOR CHAMPAGNE.
Claims use since January, 1928.

395,343. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INDEPENDENT IMPORTING CO., Boston, Mass. Filed July 2, 1940. Serial No. 423,688.

GOOD VALUE

FOR CANNED DOG AND CAT FOOD.
Claims use since 1934.

395,344. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BOLSER CORPORATION, Cedar Falls, Iowa. Filed Dec. 27, 1940. Serial No. 439,219.

RE-PAK-IT

FOR OIL FILTERS AND PARTS THEREFOR FOR INTERNAL COMBUSTION ENGINES.
Claims use since Dec. 8, 1940.

395,345. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) OWEN P. CHURCHILL, Los Angeles, Calif. Filed Jan. 11, 1941. Serial No. 439,587.

SWIM-FINS

FOR FINS FOR ATTACHMENT TO THE FEET FOR USE AS AIDS IN SWIMMING.
Claims use since Dec. 13, 1940.

395,346. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DAVID CRYSTAL, INC., New York, N. Y. Filed Feb. 5, 1941. Serial No. 440,316.

COPACABANA

FOR TEXTILE FABRICS IN THE PIECE OF SILK, RAYON, ACETATE, WOOLEN, COTTON, LINEN, SPUN RAYON, AND/OR COMBINATIONS THEREOF.
Claims use since October, 1940.

395,347. (CLASS 38. PRINTS AND PUBLICATIONS.) GEORGE MILTON GARDNER, New York, N. Y. Filed Feb. 28, 1941. Serial No. 441,089.

BARTENDER'S BULLETIN

FOR A PUBLICATION ISSUED PERIODICALLY AND SPECIALIZING IN NEWS AND VIEWS OF INTEREST TO BARTENDERS.
Claims use since Nov. 27, 1940.

395,348. (CLASS 32. FURNITURE AND UPHOLSTERY.) CAVALIER CORPORATION, Chattanooga, Tenn. Filed Mar. 1, 1941. Serial No. 441,125.

MONO-LOCK

FOR CONSOLES.
Claims use since Feb. 27, 1941.

395,349. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MILTON NEWMAN, doing business as Quaker Maid Mills, Philadelphia, Pa. Filed Mar. 11, 1941. Serial No. 441,441.

Ripple Twist Rug

FOR TOILET LID COVERS, BATH MATS, AND RUGS.
Claims use since Mar. 4, 1941.

395,350. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) THE OHIO LEATHER COMPANY, Girard, Ohio. Filed Mar. 12, 1941. Serial No. 441,484.

ZOMBIE

FOR LEATHER.
Claims use since Feb. 26, 1941.

395,351. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed Mar. 15, 1941. Serial No. 441,590.

ALPHABET PRINTS

EVERYTHING FROM "A TO Z"

FOR COTTON PIECE GOODS.
Claims use since Feb. 21, 1941.

395,352. (CLASS 12. CONSTRUCTION MATERIALS.) CHARLES E. PUTMAN, doing business as Colonial Cedar Company, Seattle, Wash. Filed Mar. 17, 1941. Serial No. 441,641.

STAYON

FOR STAINED CEDAR SHINGLES AND SHAKES.
Claims use since Feb. 5, 1941.

395,353. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LINDSAY RIPE OLIVE COMPANY, Lindsay, Calif. Filed Mar. 22, 1941. Serial No. 441,825.

LINDSAY PEAK

FOR CANNED OLIVES.
Claims use since Mar. 4, 1941.

395,354. (CLASS 12. CONSTRUCTION MATERIALS.) HARRY A. KAUFMANN, doing business as The Kaufmann Company, Detroit, Mich. Filed Mar. 24, 1941. Serial No. 441,870.

KAUFMANN

FOR STORM WINDOWS AND FOR SCREENS.
Claims use since Mar. 14, 1941.

395,355. (CLASS 38. PRINTS AND PUBLICATIONS.) THE NEW YORK TIMES COMPANY, New York, N. Y. Filed Mar. 25, 1941. Serial No. 441,919.

NEWS OF FOOD

By JANE HOLT

FOR A NEWSPAPER COLUMN.
Claims use since Mar. 10, 1941.

395,356. (CLASS 39. CLOTHING.) MARILYN HAT CO. INC., New York, N. Y. Filed Apr. 10, 1941. Serial No. 442,451.

"WAIKIKI"

FOR LADIES' AND MISSES' HATS.
Claims use since January, 1941.

395,357. (CLASS 38. PRINTS AND PUBLICATIONS.) FAWCETT PUBLICATIONS, INC., Greenwich, Conn. Filed Apr. 26, 1941. Serial No. 442,995.

BOATING HANDBOOK

FOR A PERIODICAL PUBLICATION.
Claims use since Mar. 14, 1941.

395,358. (CLASS 38. PRINTS AND PUBLICATIONS.) FAWCETT PUBLICATIONS, INC., Greenwich, Conn. Filed Apr. 26, 1941. Serial No. 442,996.

LAWN & GARDEN HANDBOOK

FOR A PERIODICAL PUBLICATION.
Claims use since Mar. 14, 1941.

395,359. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) UNITED STATES RUBBER COMPANY, New York, N. Y. Filed Apr. 26, 1941. Serial No. 443,026.

PEERLESS

FOR JAR RINGS.
Claims use since Mar. 31, 1941.

395,360. (CLASS 39. CLOTHING.) AMERICAN LADY CORSET CO., Detroit, Mich. Filed Apr. 28, 1941. Serial No. 443,031.

VITAL DIMENSION

FOR LADIES' WEARING APPAREL—NAMELY, CORSETS, BRASSIERES, BANDEAUX, GIRDLES AND VARIOUS COMBINATIONS THEREOF, LADIES' VESTS, CHEMISES, STEP-IN CORSETS, WOMEN'S, MISSES', AND CHILDREN'S KNITTED AND WOVEN UNDERWEAR IN ONE, TWO, AND THREE PIECE GARMENTS; NEGLIGEES, PYJAMAS, SLIPS, KIMONOS, AND PETTICOATS.
Claims use since Dec. 2, 1940.

395,361. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE PHARIS TIRE AND RUBBER COMPANY, Newark, Ohio. Filed Apr. 30, 1941. Serial No. 443,135.

LEAKSEAL

FOR RUBBER AND RUBBER CONTAINING PNEUMATIC TIRES AND TUBES FOR VEHICLE WHEELS.
Claims use since Mar. 27, 1941.

395,362. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) F. P. MAUPAI DYEING CO., INC., West New York, N. J. Filed May 2, 1941. Serial No. 443,200.

BOIL-PROOF DYED FABRIC NONE BETTER

FOR FABRIC PIECE GOODS MADE FROM RAYON, COTTON, AND MIXTURES OF RAYON AND COTTON, MAY BE DYED BY ONE OF OUR PATENTED OR SECRET PROCESSES.
Claims use since Feb. 15, 1941.

395,363. (CLASS 47. WINES.) CHARLES BARNETT, doing business as Charles Barnett Company, New York, N. Y. Filed May 6, 1941. Serial No. 443,279.

TRESVINSEC

FOR DRY VERMOUTH.
Claims use since about Feb. 20, 1941.

395,364. (CLASS 12. CONSTRUCTION MATERIALS.) LUBE-STEVENSON CO., Chicago, Ill. Filed May 31, 1941. Serial No. 444,086.

Absorb-A-Noise

FOR ACOUSTIC TILE.
Claims use since Aug. 1, 1940.

395,365. (CLASS 12. CONSTRUCTION MATERIALS.) ROYNAT CORPORATION, New York, N. Y. Filed June 4, 1941. Serial No. 444,200.



FOR PRESSED WOOD FIBER BOARD.
Claims use since Mar. 27, 1941.

395,366. (CLASS 47. WINES.) L. N. RENAULT & SONS, INC., doing business as Champagne Vintners, Egg Harbor City, N. J., assignor to McKesson & Robbins, Inc., New York, N. Y. Filed June 6, 1941. Serial No. 444,279.

DUMONT

FOR WINES.
Claims use since Mar. 27, 1941.

395,367. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BERNHARD-ULMANN CO. INC., New York, N. Y. Filed June 17, 1941. Serial No. 444,617.

BEAUTY-POINT

FOR HAND TUFTED, HAND CROCHETED AND HAND HOOKED RUGS.
Claims use since Mar. 6, 1941.

395,368. (CLASS 38. PRINTS AND PUBLICATIONS.) THE STECK COMPANY, Austin, Tex. Filed July 2, 1941. Serial No. 445,020.

WORKTEXT

FOR SCHOOL BOOKS.
Claims use since Mar. 1, 1941.

395,369. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) NICHOLAS & CO., INCORPORATED IMPORTERS, New York, N. Y. Filed July 3, 1941. Serial No. 445,066.

Glen Alan

FOR BLENDED SCOTCH WHISKEY.
Claims use since Oct. 1, 1939.

395,370. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HIGGINBOTHAM-BAILEY-LOGAN COMPANY, INC., Dallas, Tex. Filed Aug. 14, 1941. Serial No. 446,234.

VASSAR

FOR SILK PIECE GOODS AND OTHER FABRICS COMPOSED OF SILK, RAYON, COTTON, AND CELANESE YARN OR COMBINATIONS OF THE SAME.
Claims use since 1917 on silk piece goods, since 1939 on other fabrics.

395,371. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) MATEO M. PASCUAL, Hato Rey, P. R. Filed Aug. 22, 1941. Serial No. 446,463.

Ron Caro

FOR RUM.
Claims use since February, 1939.

395,372. (CLASS 39. CLOTHING.) JACOB DEUTSCH, doing business as L. A. Wholesale Shoe Co., Los Angeles, Calif. Filed Sept. 5, 1941. Serial No. 446,794.

Dr. J. S. Hampshires

FOR CHILDREN'S SHOES MADE OF LEATHER, FABRIC, AND RUBBER, OR A COMBINATION OF THESE MATERIALS.
Claims use since Nov. 18, 1940.

395,373. (CLASS 39. CLOTHING.) ABRAHAM & STRAUS, INC., Brooklyn, N. Y. Filed Sept. 8, 1941. Serial No. 446,850.

Bonnie Leeds

FOR GIRLS' BLOUSES, SWEATERS, OUTER SKIRTS, COATS, HATS, DRESSES, JACKETS, CHILDREN'S HOSE, KNIT PAJAMAS, AND UNDERWEAR.
Claims use since Sept. 20, 1940.

395,374. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Sept. 8, 1941. Serial No. 446,868.

LIGHTSPUN

FOR LACE CURTAINS.
Claims use since February, 1941.

395,375. (CLASS 38. PRINTS AND PUBLICATIONS.) LANTHEN MEDICAL LABORATORIES, INC., Chicago, Ill. Filed Sept. 15, 1941. Serial No. 447,044.

MODERN WOMEN

FOR A PUBLICATION PUBLISHED BIMONTHLY OR FROM TIME TO TIME FEATURING ARTICLES ON NATALITY AND HEALTH OF WOMEN AND THEIR CHILDREN.
Claims use since Aug. 28, 1940.

395,376. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE ORTHMANN LABORATORIES INC., Milwaukee, Wis. Filed Oct. 2, 1941. Serial No. 447,487.

ORTHMANN

FOR WATERPROOF GREASE FOR USE ON LEATHER BOOTS AND SHOES, LEATHER DRESSING FOR FINISHING LEATHER IN TANNING AND FOR FINISHING AND DRESSING LEATHER AND LEATHER GOODS IN GENERAL, AND BOOT AND SHOE CLEANERS.
Claims use since June 8, 1939.

395,377. (CLASS 39. CLOTHING.) DAVID COHEN & SON, New York, N. Y. Filed Oct. 3, 1941. Serial No. 447,509.



FOR HATS, SUITS, OVERCOATS, AND TOPCOATS FOR MEN AND BOYS.
Claims use since December, 1933.

395,378. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Oct. 8, 1941. Serial No. 447,608.

SOFTONE

FOR LACE CURTAINS.
Claims use since February, 1941.

395,379. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Oct. 15, 1941. Serial No. 447,803.

TUWAY

FOR LACE CURTAINS.
Claims use since February, 1941.

395,380. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE CALICO PRINTERS' ASSOCIATION, LIMITED, Manchester, England. Filed Dec. 8, 1941. Serial No. 449,251.

POTTER'S

FOR PIECE GOODS COMPOSED WHOLLY OR MAINLY OF COTTON OR WHOLLY OR MAINLY OF ARTIFICIAL SILK.
Claims use since 1913.

395,381. (CLASS 38. PRINTS AND PUBLICATIONS.) ELECTRICAL PUBLICATIONS, INC., Chicago, Ill. Filed Dec. 16, 1941. Serial No. 449,518.

ELECTRICAL • HOME EQUIPMENT

DEALER

FOR A PERIODICAL.
Claims use since October, 1940.

395,382. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) THE BLACK PRINCE COMPANY, INC., Nutley, N. J. Filed Dec. 23, 1941. Serial No. 449,716.

O'BRIEN

FOR ROCK AND RYE LIQUEUR.
Claims use since Mar. 14, 1941.

395,383. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) CARLOS A. FRIZ, New York, N. Y. Filed Jan. 10, 1942. Serial No. 450,136.

Genuine
GREEN
SAN LUIS ONYX

FOR ONYX.
Claims use since February, 1934.

395,384. (CLASS 39. CLOTHING.) O'DONNELL SHOE COMPANY, St. Paul, Minn., and Humboldt, Tenn. Filed Jan. 20, 1942. Serial No. 450,343.

The O'Donnell Conductive Shoe

FOR BOOTS AND SHOES FORMED WHOLLY OR IN PART OF RUBBER COMPOSITIONS, RUBBER SUBSTITUTES OR EQUIVALENTS SUCH AS LATEX, LEATHER, FABRICS OR A COMBINATION OF SUCH MATERIALS.
Claims use since January, 1941.

395,385. (CLASS 38. PRINTS AND PUBLICATIONS.) JANE TAYLOR, Los Angeles, Calif. Filed Feb. 17, 1942. Serial No. 451,042.

[redacted] Are You Planning?

FOR PRINTED BULLETINS, PERIODICALLY ISSUED AND EMPLOYED IN THE APPLICANT'S BUYING AND STYLE REPORTING SERVICE.
Claims use since March, 1937.

395,386. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WHOLESALER WAREHOUSE, Manchester, Iowa. Filed Feb. 28, 1942. Serial No. 451,330.

Tankage Sav'R

FOR HOG FEEDS.
Claims use since Oct. 6, 1938.

395,387. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAVA COFFEE COMPANY, Newark, N. J. Filed Mar. 17, 1942. Serial No. 451,679.

THE HOUSE OF Java

FOR COFFEE.
Claims use since December, 1938.

TRADE-MARK REGISTRATIONS RENEWED

153,190. **VITAMEAL.** BREAKFAST CEREALS AND BREADS COMPOSED OF MEAL, FLOUR, WHEAT, CORN, AND OATS. Registered March 14, 1922. CHARLES W. GRAVES, Logansport, Ind. Renewed March 14, 1942, to Lexington Mill & Elevator Co., Lexington, Nebr., a corporation of Nebraska, assignee.

154,005. **PILSER.** MALT SIRUP, NONALCOHOLIC—I. E., CONTAINING LESS THAN ONE-HALF OF ONE PER CENT OF ALCOHOL. Registered April 4, 1922. CONSUMERS PRODUCTS CO., Brooklyn, N. Y. Renewed April 4, 1942, to Pilser Brewing Co., Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

154,088. **SPUNOINT.** AN OINTMENT FOR CERTAIN NAMED PURPOSES. Registered April 4, 1922. THE LYNDON CHEMICAL COMPANY, Dayton, Ohio, a firm. Renewed April 4, 1942.

154,577. **BOWEY AND REPRESENTATION OF A BUOY.** FLAVORING EXTRACTS, MARSHMALLOW DRESSING, FUDGES, COCOA, ICE-CREAM POWDER, CRUSHED FRUITS. Registered April 18, 1922. HORINE & BOWEY COMPANY. Renewed April 18, 1942, to Bowey's, Inc., Chicago, Ill., a corporation of Illinois, by change of name.

155,199. **VELVOLAINE.** WOOLEN PIECE GOODS. Registered May 23, 1922. ATLANTIC MILLS, Providence, R. I. Renewed May 23, 1942, to A. D. Juilliard & Co., Inc., New York, N. Y., a corporation of Delaware, assignee.

155,403. **BARRIFLOWER.** DEPILATORY. Registered May 30, 1922. DEARBORN SUPPLY CO., Chicago, Ill., a corporation of Illinois. Renewed May 30, 1942.

155,412. **"EMERSON" AND REPRESENTATION OF A CLEF.** PHONOGRAPHS AND PHONOGRAPH-RECORDS. Registered May 30, 1922. EMERSON PHONOGRAPH COMPANY, INC. Renewed May 30, 1942, to Emerson Radio and Phonograph Corporation, New York, N. Y., a corporation of New York, by consolidation.

156,209. **CODEX.** RULED SHEETS TO BE USED FOR MAKING GRAPHIC CHARTS. Registered June 20, 1922. CODEX BOOK CO., INC., New York, N. Y. Renewed June 20, 1942, to Codex Book Company, Inc., Norwood, Mass., a corporation of New York.

156,221. **DAFFODIL.** FRESH ORANGES. Registered June 20, 1922. COVINA ORANGE GROWERS ASSOCIATION. Renewed June 20, 1942, to Covina Orange Growers Association, Covina, Calif., a corporation of California, assignee.

156,371. **HOME TOWN.** STATIONERY—NAMELY, LETTER PAPER, ENVELOPES, AND WRITING TABLETS. Registered June 20, 1922. NEW ENGLAND STATIONERY COMPANY. Renewed June 20, 1942, to New England Stationery Company, Boston, Mass., a corporation of Massachusetts, assignee.

156,372. **SHAKESPEARIAN.** STATIONERY—NAMELY, LETTER PAPER, ENVELOPES, AND WRITING TABLETS. Registered June 20, 1922. NEW ENGLAND STATIONERY COMPANY. Renewed June 20, 1942, to New England Stationery Company, Boston, Mass., a corporation of Massachusetts, assignee.

156,673. **FOREST CITY.** AUGERS, DRILLS, CHISELS, BITS, AND BUSHINGS OR COLLARS FOR HOLLOW CHISELS. Registered July 11, 1922. FOREST CITY BIT & TOOL CO., Rockford, Ill., a corporation of Illinois. Renewed July 11, 1942.

156,710. **MILWAUKEE.** ELECTRIC CRANE. Registered July 11, 1922. MILWAUKEE ELECTRIC CRANE & MFG. CO., INC., West Allis, Wis. Renewed July 11, 1942, to Harnischfeger Corporation, Milwaukee, Wis., a corporation of Wisconsin, assignee by mesne assignments.

157,147. **DAISY.** MOPS. Registered July 25, 1922. MASSASOIT MANUFACTURING COMPANY, Fall River, Mass. Renewed July 25, 1942, to Massasoit Company, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

157,225. **TRI-PLEX.** BOOTS AND SHOES MADE OF LEATHER AND FABRIC. Registered July 25, 1922. TRI-PLEX SHOE COMPANY, Philadelphia, Pa. Renewed July 25, 1942, to Tri-Plex Shoe Company, Boston, Mass., a corporation of Delaware.

157,557. **PIT.** CARD GAMES. Registered August 8, 1922. PARKER BROTHERS, Salem, Mass. Renewed August 8, 1942, to Parker Brothers, Inc., Portland, Maine, and Salem, Mass. a corporation of Maine.

157,572. **DEFIANCE.** CHAMBRAY AND CHEVIOTS IN THE PIECE. Registered August 8, 1922. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va. Renewed August 8, 1942, to Riverside & Dan River Cotton Mills, Inc., Danville, Va., and New York, N. Y. a corporation of Virginia.

158,034. **MURRY'S MIRACLE—GEO E MURRY.** LINIMENT FOR CERTAIN NAMED USES. Registered August 22, 1922. GEORGE E. MURRY, Pequea, Pa. Renewed August 22, 1942.

158,083. **LORD BALTIMORE.** GINGER ALE. Registered August 22, 1922. JOHN Z. SCHONHOFF, trading as Lord Baltimore Bottling Company, Baltimore, Md. Renewed August 22, 1942.

158,148. **CHAULMESTROL.** ANTISEPTIC AND ALTERATIVE. Registered August 22, 1922. WINTHROP CHEMICAL COMPANY, INC. Renewed August 22, 1942, to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York, by consolidation.

158,254. **SUPERSALV.** VETERINARY OINTMENT FOR CERTAIN NAMED USES. Registered August 29, 1922. THE LYNDON CHEMICAL COMPANY, Dayton, Ohio, a firm. Renewed August 29, 1942.

158,481. **LOURNAY.** ROUGE, COLD CREAM, LIP STICKS, TOILET WATER, TALCUM POWDER, AND PERFUME. Registered September 5, 1922. LOURNAY, INC., New York, N. Y. Renewed September 5, 1942, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware, assignee by mesne assignments.

158,556. **CHAMPION.** CERTAIN DENTAL TOOLS. Registered September 5, 1922. THE UNITED STATES DENTAL MANUFACTURING COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed September 5, 1942.

158,557. **U S D M AND REPRESENTATION OF A SHIELD.** CERTAIN DENTAL TOOLS. Registered September 5, 1922. THE UNITED STATES DENTAL MANUFACTURING COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed September 5, 1942.

158,630. **PHENOID.** PAINT REMOVERS AND VARNISH REMOVERS. Registered September 12, 1922. CHALMERS CHEMICAL COMPANY, Newark, N. J., a corporation of West Virginia. Renewed September 12, 1942.

158,664. **FLORENCE.** BUNGALOW APRONS, DRESSES, PETTICOATS, AND BAND APRONS, NIGHTGOWNS, AND BLOOMERS. Registered September 12, 1922. ABRAHAM D. FINKEL, doing business as Sorg Manufacturing Company, Pittsburgh, Pa. Renewed September 12, 1942, to The Duquesne Manufacturing Company, New Kensington, Pa., a corporation of Pennsylvania, assignee.

158,665. **FLORENCE.** BUNGALOW APRONS, DRESSES, PETTICOATS, AND BAND APRONS, NIGHTGOWNS, AND BLOOMERS. Registered September 12, 1922. ABRAHAM D. FINKEL, doing business as Sorg Manufacturing Company, Pittsburgh, Pa. Renewed September 12, 1942, to The Duquesne Manufacturing Company, New Kensington, Pa., a corporation of Pennsylvania, assignee.

158,902. **BOSS SHUCKY.** FABRIC GLOVES AND MITTENS. Registered September 19, 1922. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y. Renewed September 19, 1942, to The Boss Manufacturing Company, Kewanee, Ill., a corporation of Illinois.

158,903. **BOSS TU-TUM.** FABRIC GLOVES AND MITTENS. Registered September 19, 1922. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y. Renewed September 19, 1942, to The Boss Manufacturing Company, Kewanee, Ill., a corporation of Illinois.

158,917. **KIST.** NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS AND CONCENTRATES FROM WHICH SUCH SOFT DRINKS ARE MADE. Registered September 19, 1922. CITRUS PRODUCTS COMPANY, Chicago, Ill., a corporation of Illinois. Renewed September 19, 1942.

158,923. **FLORIENT.** PERFUMES, PERFUMED POWDERS, AND TOILET WATERS. Registered September 19, 1922. COLGATE & CO., Jersey City, N. J., and New York, N. Y. Renewed September 19, 1942, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware, assignee.

158,931. **KOSSOLIAN.** BLOOD PURIFIERS, TONICS, AND CONDITIONERS FOR HORSES, COWS, CALVES, SHEEP, LAMBS, PIGS, AND OTHER ANIMALS. Registered September 19, 1922. DAY, SON & HEWITT, LIMITED, London, England, a corporation of the United Kingdom of Great Britain and Northern Ireland. Renewed September 19, 1942.

158,932. **MUTUAL.** HOOKS AND EYES, HOOK AND EYE TAPE, AND SAFETY PINS. Registered September 19, 1922. THE DE LONG HOOK AND EYE COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed September 19, 1942.

159,039. **CABOT A.** COTTON PIECE GOODS. Registered September 19, 1922. MINOT, HOOPER & COMPANY, New York, N. Y., a firm. Renewed September 19, 1942.

159,103. **CARMOOR.** CERTAIN ARTICLES OF CLOTHING. Registered September 19, 1922. FRANKLIN SIMON & CO. INC. Renewed September 19, 1942, to Franklin Simon & Co., Inc., New York, N. Y., a corporation of New York, assignee.

159,294. **MAGNIWATE.** GLASS PAPER WEIGHTS SHAPED TO FORM OPTICAL LENSES. Registered September 26, 1922. BUFFALO OPTICAL COMPANY, INC., Buffalo, N. Y., a corporation of New York. Renewed September 26, 1942.

159,309. **SECURITY.** GUMMED PAPER. Registered September 26, 1922. CENTRAL PAPER COMPANY, Menasha, Wis., a corporation of Wisconsin. Renewed September 26, 1942.

159,425. **YOUNG FOLKS STANDARD LIBRARY.** BOOKS IN A CONTINUING SERIES. Registered September 26, 1922. MCLOUGHLIN BROS., INC., Springfield, Mass., a corporation of Massachusetts. Renewed September 19, 1942.

159,477. **KERO TEST.** VALVES—NAMELY, GATE VALVES, GLOBE VALVES, AND PIPE FITTINGS—NAMELY, ELBOWS, T'S, CROSSES, Y'S, AND RETURN BENDS. Registered September 26, 1922. PITTSBURGH REINFORCED BRAZING & MACHINE COMPANY. Renewed September 26, 1942, to Kerotest Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania, by change of name.

159,481. **CALUMET.** MALT SIRUP FOR FOOD PURPOSES. Registered September 26, 1922. PREMIER MALT PRODUCTS CO. OF OHIO, INC., Chicago, Ill. Renewed September 26, 1942, to Pabst Brewing Company, Peoria Heights, Ill., a corporation of Delaware, assignee.

159,482. **MARVEL.** MALT SIRUP FOR FOOD PURPOSES. Registered September 26, 1922. PREMIER MALT PRODUCTS CO. OF OHIO, INC., Chicago, Ill. Renewed September 26, 1942, to Pabst Brewing Company, Peoria Heights, Ill., a corporation of Delaware, assignee.

159,483. **CARAVAN.** MALT SIRUP FOR FOOD PURPOSES. Registered September 26, 1922. PREMIER MALT PRODUCTS CO. OF OHIO, INC., Chicago, Ill. Renewed September 26, 1942, to Pabst Brewing Company, Peoria Heights, Ill., a corporation of Delaware, assignee.

159,525. **SKYBRYTE.** PREPARATION FOR CLEANING AND REMOVING DIRT AND OTHER SUBSTANCES FROM GLASS AND OTHER GLAZED SURFACES. Registered September 26, 1922. THE SKYBRYTE COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed September 26, 1942.

159,581. **GENERAL.** PAPER TOWELS. Registered September 26, 1922. WEST DISINFECTING COMPANY, New York, N. Y. Renewed September 26, 1942, to West Disinfecting Company, Long Island City, N. Y., a corporation of New York

159,659. **BBB.** STRUCTURAL SHAPES FOR BUILDINGS. Registered October 3, 1922. BETHLEHEM FABRICATORS, INC., Bethlehem, Pa., a corporation of Pennsylvania. Renewed October 3, 1942.

159,677. **CARNEY.** CEMENT FOR CONSTRUCTION PURPOSES. Registered October 3, 1922. CARNEY CEMENT COMPANY. Renewed October 3, 1942, to The Carney Company, Mankato, Minn., a corporation of Minnesota, by change of name.

159,682. **SUPERTEX.** WINDOW-SHADE CLOTH IN THE PIECE MADE OF COTTON MUSLIN. Registered October 3, 1922. THE COLUMBIA MILLS, INC., New York, N. Y., a corporation of New York. Renewed October 3, 1942.

159,683. **FLYING CLOUD.** COTTON SHEETINGS. Registered October 3, 1922. COLUMBUS MANUFACTURING COMPANY, Columbus, Ga., a corporation of Georgia. Renewed October 3, 1942.

159,691. **NOLA.** COTTON PIECE GOODS. Registered October 3, 1922. EUGENE ELLIS CO. INC., New Orleans, La., a corporation of Lousiana. Renewed October 3, 1942.

159,704. **GALAHAD.** CERTAIN NAMED INSTRUMENTS AND APPLIANCES USED AND PRESCRIBED BY DENTISTS AND SURGEONS. Registered October 3, 1922. HADFIELDS LIMITED, Sheffield, England, a British corporation. Renewed October 3, 1942.

159,739. **KNIGHT.** SEWING THREADS. Registered October 3, 1922. MAX POLLACK & CO., INC., New York, N. Y., a corporation of New York. Renewed October 3, 1942.

159,989. **HY-RAY.** SUNBURN CREAM. Registered October 10, 1922. PAUL L. MCCONOMY, trading as Hy-Ray Products Co., Philadelphia, Pa. Renewed October 10, 1942.

160,002. **MED-O-FARMS—W. L. ROHRER.** BOTTLED MILK. Registered October 10, 1922. WAYNE L. ROHRER, Lancaster, Pa. Renewed October 10, 1942.

160,033. **UNICO.** CORK BULLETIN BOARDS. Registered October 10, 1922. UNITED CORK COMPANIES, Lyndhurst, N. J., and New York, N. Y. Renewed October 10, 1942, to United Cork Companies, Kearny, N. J., a corporation of New York.

REISSUES

MAY 19, 1942

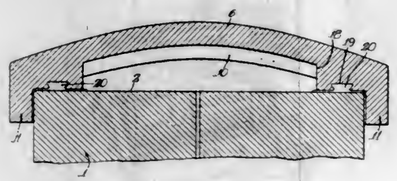
22,098

FLANGED WALL COPING

John P. Duffy, Uhrichsville, Ohio, assignor to The Stillwater Clay Products Company, Cleveland, Ohio

Original No. 2,233,308, dated February 25, 1941, Serial No. 357,063, September 16, 1940. Application for reissue March 30, 1942, Serial No. 436,923

12 Claims. (Cl. 72—86)



12. An integrally formed coping unit, comprising a portion consisting of a top, flanges depending from the longitudinal edges thereof, and pads presenting supporting surfaces extending inwardly from said flanges and provided with dovetail grooves, and a second portion projecting longitudinally from one end of said first portion and consisting of a top and flanges depending from the longitudinal edges thereof proportioned to project within the confines of the top and flanges of the first portion of a companion unit, the ends of said supporting pads remote from said second portion being spaced inwardly from the corresponding end of said first portion.

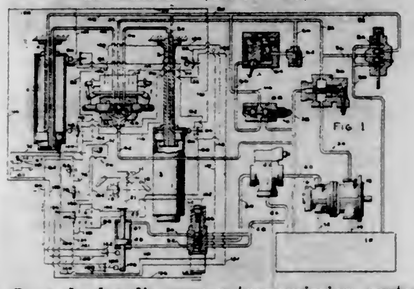
22,099

POWER TRANSMISSION

Ferris T. Harrington, Detroit, Mich., and Rudolf E. Esch, Euclid, Ohio, assignors to Vickers Incorporated, Detroit, Mich., a corporation of Michigan

Original No. 2,186,279, dated January 9, 1940, Serial No. 191,894, February 23, 1938. Application for reissue December 11, 1941, Serial No. 422,554

11 Claims. (Cl. 90—33)



1. In a hydraulic power transmission system the combination of a first fluid motor, a second fluid motor, pump means for supplying pressure fluid to operate said motors, electrically operable control means for selectively by-passing the pump means or causing operation of the first motor in either direction, electrically operable control means for selectively by-passing the pump means or causing operation of the second motor in either direction, an electric circuit operably connected to said control means, a manually operable switch for energizing the control means to start operation of the first motor, switch means operated by the fluid motors for energizing the control means to cause said motors to operate in a predetermined sequence and manually operable means for deenergizing both said control means to cause the pump to be by-passed.

PLANT PATENTS

GRANTED MAY 19, 1942

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

516

ROSE

Frederick Huber Howard, Montebello, Calif., assignor to Lester C. Lovett, Red Bank, N. J.

Application November 18, 1941, Serial No. 419,642

1 Claim. (Cl. 47—61)

The new and useful variety of hybrid tea rose plant herein described and shown, characterized particularly by its delicate pink blossoms; its very strong, healthy, abundant foliage; its strong, upright stems; its vigorous growth; and its ability, when asexually reproduced, to yield a much higher than average proportion of first class plants.

517

ROSE PLANT

Roy L. Byrum, Richmond, Ind., assignor to Joseph H. Hill Company, Richmond, Ind., a corporation of Indiana

Application November 1, 1941, Serial No. 417,558

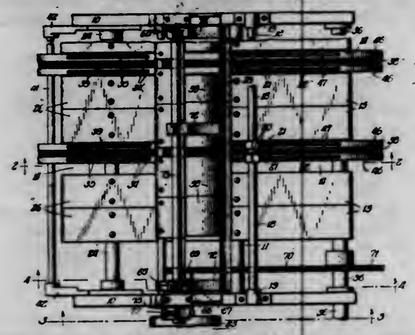
1 Claim. (Cl. 47—61)

A new and distinct variety of hybrid tea rose plant, characterized as to novelty by its miniature size, the yellow coloring and abundance of its blooms, their lasting quality and general distinction from all other roses of its class, substantially as shown and described.

PATENTS

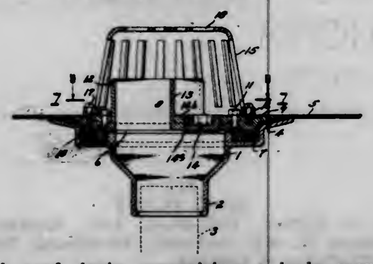
GRANTED MAY 19, 1942

2,283,159
PAPER BOARD FOLDING MACHINE AND METHOD
Edwin L. Arneson, Morris, Ill., assignor to Morris Paper Mills, Chicago, Ill., a corporation of Illinois
Application April 2, 1940, Serial No. 327,479
8 Claims. (Cl. 270—59)



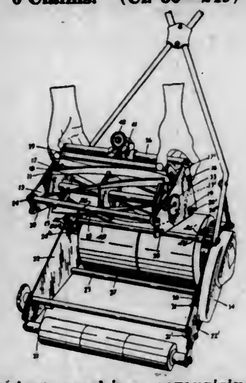
1. A device of the type described, a discontinuous conveyor for blanks to be folded, an oscillating folder bar having an edge portion movable along the discontinuous portion of said conveyor, and a deflector pivotally mounted adjacent said bar for turning the leading edge of a blank on said conveyor upwardly against said edge portion, and means for moving said bar against said edge portion to progress said blank beneath said deflector and across the discontinuous portion of said conveyor.

2,283,160
ROOF DRAIN
Edward W. N. Boosey, Detroit, Mich.
Application March 15, 1941, Serial No. 383,515
5 Claims. (Cl. 182—31)



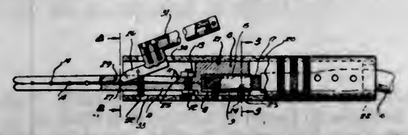
1. A roof drain comprising a body member having an open upper end and a peripheral flange thereabout and an opening at the bottom for reception of a conduit, a head having a flange adapted to be mounted on the body flange, a roof flashing secured between the said flanges, said head having an integral vertical tubular portion extending upwardly and having an open upper end normally determining the depth of water that may accumulate on a roof, and a shield for preventing debris entering the body through the tubular portion comprising an apertured member enclosing the head.

2,283,161
LAWN MOWER AND THE LIKE
Charles Francis Booton, Anstey, England, assignor to J. P. Engineering Company Limited, Leicester, England
Application March 23, 1939, Serial No. 263,766
In Great Britain April 8, 1938
6 Claims. (Cl. 56—249)



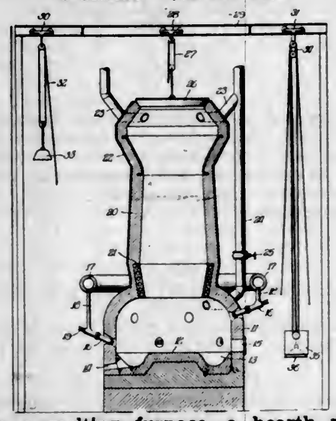
1. A mowing machine comprising a chassis unit having transport means; a unitary cutter structure including a fixed cutter member and a rotatable cutter member mounted in co-operative relation thereto; means carried by said chassis unit for readily removably receiving said unitary cutter structure and mounting it in said chassis for lateral movements therein; drive means for said rotatable cutter member, carried by said chassis unit; and a laterally separable readily detachable connection between said drive means and rotatable cutter member, connectible and disconnectible through said lateral movements of the unitary cutter structure.

2,283,162
ELECTRODE HOLDER
Philip Bourque, Detroit, Mich., assignor to Bordon Mfg. Co., Inc., Detroit, Mich., a corporation of Michigan
Application October 17, 1940, Serial No. 361,567
19 Claims. (Cl. 219—8)



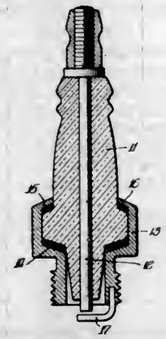
1. In an electrode holder of the class described, a pair of resilient clamping jaws in superimposed relation and secured together adjacent their rear ends and springable apart at their forward ends for the reception of an electrode wire to be clamped therebetween, one of said jaws having an opening formed therein intermediate its ends; a lever projected at one end through said opening; a force applying portion on said end of said lever extended beyond the area of said opening and engageable with said opening-bearing jaw for applying force thereto; a threaded fulcrum-forming member threaded through the other of said jaws and engageable with said lever rearwardly of said force-applying portion, for, upon rocking of the same in one direction, providing an adjustable fulcrum therefor and delivering a thrust to the other of said jaws.

2,283,163
SHAFT FURNACE AND METHOD OF OPERATING SAME
Herman A. Brassert and Edward L. Ives, New York, N. Y., assignors to H. A. Brassert & Company, New York, N. Y., a corporation of Illinois
Application February 7, 1941, Serial No. 377,784
6 Claims. (Cl. 75—43)



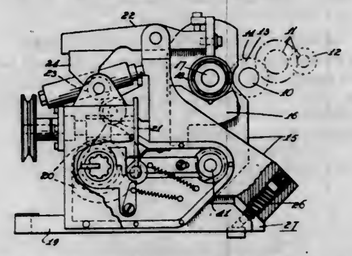
1. In a melting furnace, a hearth portion, means for causing combustion in the hearth, a raised platform located in the hearth, a shaft portion located above the platform in the hearth, said shaft having gas offtakes connected to its upper end, and gas offtake means independent of the shaft connected to the upper part of the hearth portion of the furnace.

2,283,164
SPARK PLUG
Herbert M. Brewster, Chicago, Ill.
Application May 31, 1940, Serial No. 338,084
1 Claim. (Cl. 123—169)



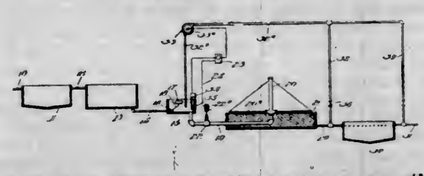
In an internal-combustion engine spark-plug of the type having a hollow metal-body at least partially externally screw-threaded for mounting in the engine, an electrically non-conductive member at least partially accommodated in said body in gas-pressure tight relation therewith, said body and member being permanently fixed relative to one another forming a unit, a first electrode on said body, and a second electrode extended through said member and in spark-gap relation to said first electrode, the novel features consisting in the facts (*a*) that said metal-body is free from flat surfaces suitable for the application of a wrench for turning the plug and (*b*) that a portion of said member outside of said metal-body has external flat surface means for application of a wrench, whereby the spark-plug as a whole may be screwed into position in the engine and unscrewed therefrom.

2,283,165
DEVICE FOR MILLING OIL SLOTS IN PISTON RINGS
George Brouwer, Muskegon, Mich., assignor, by mesne assignments, to Ramsey Manufacturing Company, a corporation of Michigan
Application March 5, 1940, Serial No. 322,377
2 Claims. (Cl. 90—21)



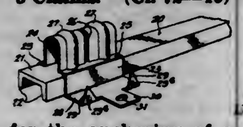
1. A device for milling oil slots in a plurality of piston rings comprising rotatable cutting members, a base, a rocker pivotally mounted on said base and positioned opposite said cutting members, said rocker having a V shaped receiving portion adapted to receive an arbor having a plurality of piston rings, and means for pivoting said rocker forwardly so that said rings on the arbor in the V shaped portion will contact said cutting members for cutting oil slots therein, and means for pivoting said rocker rearwardly for withdrawing said rings from contact with said cutting members.

2,283,166
METHOD OF TREATING SEWAGE MATERIAL
Walter E. Buell and Leon A. Winter, Sioux City, Iowa
Application June 23, 1937, Serial No. 149,880
2 Claims. (Cl. 210—7)



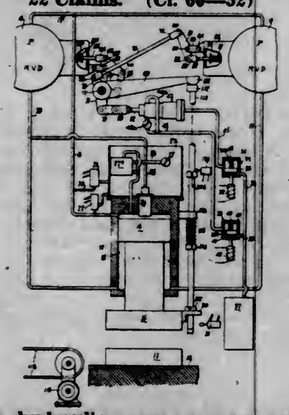
1. The method of treating sewage or other waste material which comprises the steps of: continually feeding the material to be treated to a trickling filter at a controlled, substantially uniform rate; periodically interrupting the feed to provide intervals of rest; and timing said periods of feed and rest respectively so that a definite feed period is followed by a definite rest period, the ratio of the period of rest to the period of feed (in minutes) being approximately 2 to 30 in any given half hour.

2,283,167
CLIP ASSEMBLY FOR WALL STRUCTURES
Harry H. Burson, Chicago, Ill., assignor to Norman C. Spong, Chicago, Ill.
Application July 10, 1940, Serial No. 344,658
5 Claims. (Cl. 72—46)



1. A clip for the anchoring of a stud or the like formed from sheet material configured to afford spaced substantially parallel side walls adapted to straddle a runner and provided with means for attachment to a floor or the like, and an upwardly springing connecting arch bridging the space between the side walls and provided with a slot cut through the crest and the sides of the arch and adapting the clip to receive and socket the end of a stud or the like.

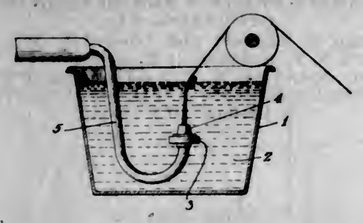
2,283,168
HIGH SPEED PRESS CONTROL
Walter Ernst and Philip J. Lindner, Mount Gilead, Ohio, assignors to The Hydraulic Development Corp., Inc., Wilmington, Del., a corporation of Delaware
Application September 19, 1940, Serial No. 357,444
22 Claims. (Cl. 60—52)



1. In a hydraulic press, a press cylinder, a press ram reciprocably mounted in said press cylinder, a fluid source adapted to supply pressure fluid to said press cylinder for actuating said ram, control means associated with said fluid source for varying the delivery of fluid thereof to said press cylinder and for changing the direction of flow of said fluid to said press cylinder, slow down means operable to actuate said control means for slowing down the movement of said ram prior to resistance being exerted upon said ram by a work piece to be pressed, and means responsive to a resistance exerted by a work piece upon said ram for actuating said control means so as again to speed up the advancing movement of said ram.

2,283,169
SPINNING FIBERS
Francis Clarke Atwood, Newton, Mass., assignor to Atlantic Research Associates, Inc., Newtonville, Mass., a corporation of Delaware
Application May 18, 1939, Serial No. 273,433
9 Claims. (Cl. 18—8)

1. An apparatus for spinning synthetic fibers comprising a spinnerette formed of a metal which normally dissolves in an acidic coagulating liquid with deleterious effects upon synthetic fibers coagulated therein, and a protecting member electrically connected to the spinnerette and formed of a metal which upon solution in an acidic coagulating liquid has a less deleterious effect upon synthetic fibers coagulated therein than that re-

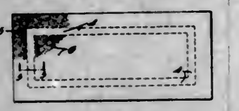


sulting from the solution of the spinnerette metal, said protecting member being anodic with respect to said spinnerette, whereby during contact of the spinnerette and the protective member with an acidic coagulating bath, the protective member dissolves instead of the spinnerette.

2,283,170
METHOD OF COLORING ETCHED STAINLESS STEEL
Clements Batcheller, Glens Falls, N. Y.
No Drawing. Application November 30, 1939, Serial No. 306,974
11 Claims. (Cl. 41—42)

1. Those steps in the method of producing a design upon the surface of stainless steel which comprises passivating predetermined zones of said surface by subjecting said zones to the action of an etching medium, and thereafter subjecting said steel to the action of a solution containing sulphuric acid, water and an etching-inhibiting-oxidizing agent until the unpassivated portions of said steel have acquired a dark coloration; the sulphuric acid constituting about 25% to about 65%, by weight, of the acid-water solution, and the inhibitor constituting from about 3% to about 30%, by weight, of the whole solution and being present in a quantity at least sufficient to prevent said solution from etching said steel when immersed therein.

2,283,171
COLORED STEEL
Clements Batcheller, Glens Falls, N. Y., assignor to Allegheny Ludlum Steel Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Original application June 30, 1938, Serial No. 216,719. Divided and this application February 24, 1941, Serial No. 380,241
5 Claims. (Cl. 41—18)



1. A new article of manufacture formed of stainless steel having substantially integral with the surface thereof in certain zones only, an extremely thin, but coherent and tenaciously adherent film of color containing oxides of iron and chromium; said colored zones being so correlated and disposed with respect to the other zones of said surface as to form a predetermined design.

2,283,172
ZEOLITES AND THEIR TREATMENT
John R. Bates, Swarthmore, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 23, 1937, Serial No. 170,648
13 Claims. (Cl. 252—254)

2. The process of preparing synthetic contact masses comprising the steps of preparing a zeolitic gel or precipitate by interaction in solution of an alkali metal silicate and a compound of an amphoteric metal, including in the solution a quantity of an anion of a non-amphoteric element equivalent to at least 0.2 the total alkali metal oxide content of said mixture and sufficient to place substantially the entire alkali metal oxide content of the resulting zeolitic product in base exchangeable position, reducing the alkali metal content of the zeolite to an amount below that molecularly equivalent to 1% by weight of sodium oxide by base exchanging it with a compound of a volatile or decomposable cation selected from the group consisting of ammonium and amines which compound is capable of affecting substantially only the alkali metal in the zeolite, and thereafter subjecting the zeolite to heat treatment at temperature sufficiently high to drive off said cation to yield a product consisting essentially of the nucleus of the zeolite.

5. The process of preparing synthetic contact masses comprising the steps of preparing a zeolitic gel or precipitate by interaction in solution of an alkali metal silicate and a compound of an amphoteric metal, including in the solution a quantity of an anion selected from the group consisting of Cl^-, $SO_3^=$, $SO_4^=$, NO_3^-, $CO_3^=$ and $C_2H_3O_2^-$ equivalent to at least 0.2 the total alkali metal oxide content of said mixture sufficient to place substantially the entire alkali metal oxide content of the zeolite in base exchangeable position, and base exchanging the zeolite with an ammonium salt until substantially its total content of alkali metal is removed.

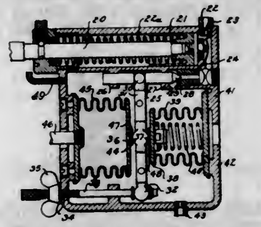
2,283,173
SYNTHETIC CONTACT MASSES AND THEIR PREPARATION
John R. Bates, Swarthmore, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 17, 1937, Serial No. 174,966
16 Claims. (Cl. 252—254)

1. In preparing stable synthetic contact masses the process comprising mixing a soluble silicate and an alkaline solution of an amphoteric metal oxide in such proportion and concentration that no precipitate or gel is formed for an appreciable time, producing a coagulum from the resulting sol by adding thereto before substantial precipitation or gel formation takes place a coagulant comprising a solution of a compound of a volatile cation which reacts by metathesis with the alkali content of said sol to form a volatile base and a salt, controlling the quantity of said compound to at least two tenths the stoichiometric equivalent of the alkali metal content of said sol to place substantially all the alkali metal oxide content of the coagulum in base exchangeable position, and reducing the alkali metal content of the zeolite to below the amount molecularly equivalent to 1% by weight of sodium oxide by base exchanging it with a base exchanging solution incapable of dissolving said silica or amphoteric metal oxide by acid reaction.

2,283,174
METHOD OF PREPARING COMPOSITE MATERIALS FOR CONTACTING OPERATIONS
John R. Bates, Swarthmore, Pa., and George R. Bond, Jr., Paulsboro, N. J., assignors to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 26, 1939, Serial No. 270,202
3 Claims. (Cl. 252—259)

1. The method of preparing a contact material containing a high-swelling bentonite and an adsorptive clay which comprises the steps of adding the bentonite in finely divided form to a sufficient quantity of liquid to form a paste-like dispersion of the bentonite by mixing the same until a smooth consistency is obtained, then adding the bentonite to a body of the adsorptive clay and thoroughly mixing the ingredients, molding the mixture by extruding to form pellets of uniform size and shape and then heat treating the pellets at a temperature above 900° F. sufficiently long to provide porous rigid hard units which are uniformly resistant to deformation over prolonged periods of use.

2,283,175
POWER REGULATOR FOR SUPERCHARGED ENGINES
Adolph L. Berger, Dayton, Ohio
Application May 13, 1940, Serial No. 334,844
13 Claims. (Cl. 60—13)



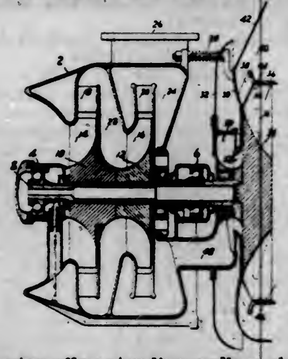
(**Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757**)

1. In an internal combustion engine having an exhaust system, an intake system, and a throttle, a supercharger operatively associated with said intake system for maintaining the air density in said intake system substantially constant for a given throttle setting, and means responsive to pressure changes in said exhaust system for maintaining a substantially constant pressure difference between said two systems for said given throttle setting and for varying atmospheric densities.

2,283,176
ELASTIC FLUID MECHANISM
Rudolph Birmann, Newton, Pa., assignor to Turbo Engineering Corporation, New York, N. Y., a corporation of Delaware
Application November 29, 1937, Serial No. 176,979
18 Claims. (Cl. 60—49)

1. An elastic fluid mechanism including a rotor mounted for rotation about an axis, turbine passages in said rotor, means for directing hot driving fluid into the turbine passages, and passages located between the turbine passages for elastic cooling fluid having intake and discharge portions, the intake portion of each cooling fluid passage being formed as an impeller to receive and compress cooling fluid, and the discharge portion of each cooling fluid passage being

formed to discharge the cooling fluid rearwardly to impart power to the rotor by reaction, said cooling fluid receiving from the rotor in its passages heat imparted to the rotor by the driving fluid, said cooling fluid passages being bounded in



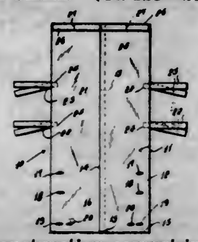
part by outwardly extending walls each of which substantially conforms to a surface expressible in cylindrical coordinates by the equation $x=K \tan b$, in which x and b are measured along and about the axis respectively.

2,283,177
ELECTRICAL PLUG CONNECTION
Kenneth A. Brainard, Altadena, Calif.
Application August 2, 1940, Serial No. 349,715
7 Claims. (Cl. 173—361)



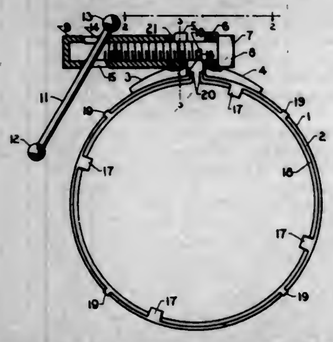
1. A wedge shaped plug body for use in cooperation with a wedge shaped wall socket, said plug body having a base and opposite converging sides and a connector mounted upon the plug body normal to and projecting from one of said sides, said plug body being insertable in the wall socket at an oblique angle to the plane of said base and with said connector entering an inner wall of said socket longitudinally of the axis of the connector to assist in holding the plug body inserted with said base flush with the outer surface of the wall socket.

2,283,178
DIAPER CONSTRUCTION
Susie Brown, Chicago, Ill.
Application April 17, 1941, Serial No. 389,059
1 Claim. (Cl. 128—284)



A diaper construction comprising an elongated sheet, said sheet, adjacent one end thereof, being provided with longitudinally spaced openings disposed adjacent the side edges, ties connected to said sheet, adjacent its opposite end and projecting laterally from said side edges, said ties being adapted to be passed through certain of said openings, when the diaper is folded, and tied for securing the diaper firmly on the body of a baby, said ties including sets of ties attached adjacent each longitudinal edge of said last mentioned end of the sheet, the extremity of said last mentioned end of the sheet extending substantially beyond said sets of ties, and said extremity portion being adapted to be folded back upon the sheet, and a pair of ties secured to the last mentioned end of the sheet, at the extremity thereof, said last mentioned ties being tacked down and being releasable for adapting the diaper for use on babies of different sizes.

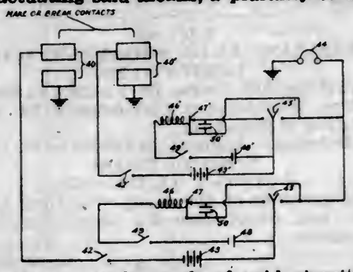
2,283,179
SOIL PIPE HUB CLAMP
Adelbert P. Buckingham, Battle Creek, Mich.
Application August 14, 1940, Serial No. 352,644
8 Claims. (Cl. 24—19)



5. In a clamping member, the combination of a two ended flexible strap member, outwardly projecting ears mounted on the ends of said strap member, said ears being in close proximity for moving to and from each other, an elongated threaded member, one of said ears having a hole therethrough for said threaded member, means for anchoring said threaded member against completely pulling through said hole, a fork top on the other of said ears for ready engagement and disengagement with said threaded member, means threadedly engaging the free end of said threaded member, for moving said ears relative to each other, inwardly extending, relatively small, ears on one edge of said flexible strap member, said hole through said outwardly projecting ear being upwardly flared to permit limited upward pivotal movement of the free end of said elongated threaded member, and means for loosely anchoring said elongated threaded member to said ear having the upwardly flared hole for relatively short endwise movement therethrough.

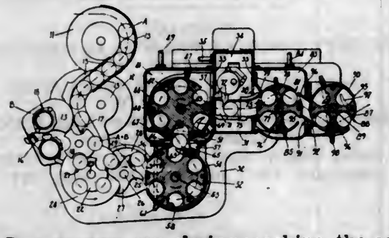
2,283,180
ACCELEROMETER
James A. Buchanan, United States Navy
Application January 2, 1941, Serial No. 372,805
13 Claims. (Cl. 177—311)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An apparatus for determining the maximum and minimum limits of an attained magnitude of acceleration comprising a plurality of inertia actuated elements each movable in response to a different predetermined magnitude of acceleration, a circuit controlling means for each of said elements responsive to a critical movement thereof, an electromagnetically actuated means for producing a sustained audible signal of a pitch determined by the frequency of the current pulsations actuating said means, a plurality of circuit



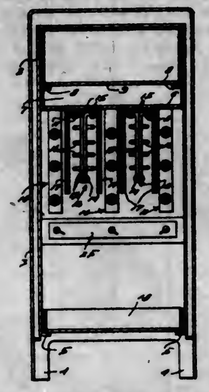
interrupters, one for each of said circuit controlling means, each having a different operating frequency, a source of current supply, means connecting the source to said sound producing means through each of said circuit controlling means and the contacts of its respective circuit interrupter so that through the use of a plurality of elements the acceleration may be classified according to the pitch of the audible signal.

2,283,181
CAN CLOSING MACHINE
Walter K. Cabot, Montclair, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application June 30, 1939, Serial No. 282,285
4 Claims. (Cl. 226—82)



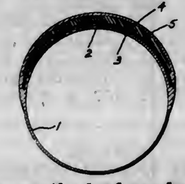
1. In a vacuum can closing machine, the combination of a housing having can entrance and can discharge openings therein adjacent opposite portions thereof, outer valve seats disposed exteriorly of said housing adjacent and surrounding said openings, outer rotary valves having spaced pockets mounted in said seats for preventing air from entering said housing, partition walls formed with entrance and exit openings located inside said housing and setting off therebetween a highly vacuumized can closing chamber adapted to receive cans and covers from the pockets of one of said valves and to seal the cans while in said chamber, inner valve seats formed with entrance and exit ports also located within said housing adjacent said partition wall openings, and inner rotary valves having spaced pockets mounted in said seats, said inner valve seats setting off an auxiliary prevacuumizing chamber on one side of the closing chamber and an auxiliary sealed can discharge chamber on the other side, and means for maintaining said auxiliary chambers under a lesser vacuum than that obtaining in said closing chamber for protecting the closing chamber against fluctuations in its highly vacuumized condition.

2,283,182
ELECTRIC COOKER
Walter Galen Carl, Mitchell, S. Dak., assignor to Carl Manufacturing Company, Incorporated, Mitchell, S. Dak.
Application January 15, 1941, Serial No. 374,564
2 Claims. (Cl. 219—35)



1. An electric cooker comprising, in combination, a cabinet, a perforated horizontal partition in the cabinet providing an oven in the upper portion thereof, a removable pan slidably insertable in the oven, a plurality of spaced, vertical electric heating units suspended from the partition, a plurality of removable food racks slidably mounted beneath the partition between the heating units, foraminous screens suspended from the partition between said racks and the heating units, and a grease tray removably mounted in the cabinet below the racks.

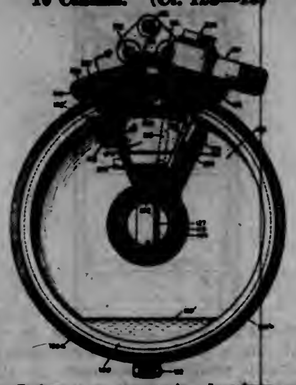
2,283,183
METHOD OF PRODUCING SELF-SEALING TUBES
Frank G. Carnahan, Akron, Ohio
Application January 26, 1940, Serial No. 315,731
1 Claim. (Cl. 154—15)



Steps in the method of producing self-sealing tubes, which consists in superimposing centrally on the tread portion of an expansible curing bag a relatively inextensible rubberized fabric strip of sufficient width to overlie substantially the entire tread portion of an inner tube on which it is to be applied, next applying centrally over said rubberized fabric strip a strip of unvulcanizable plastic rubber whose width is less than the width of said rubberized fabric strip, next applying a cover strip of vulcanizable rubber centrally over the rubberized fabric and plastic rubber strips the said cover strip being of sufficient width to overlap the underneath strips and to contact the sides of said expansible curing bag, placing the assembly of bag and strips in a vulcanizing mold, inflating the curing bag whereby to obtain pressure on the said assembly during vulcanization, vulcanizing the assembled strips, removing the vulcanized strips from said curing bag in one

composite tube shield form and permanently applying the said shield to the tread portion of a previously formed inner tube whereby to form a self-sealing inner tube.

2,283,184
OSCILLATORY STARTER AND ROTARY BREECH MECHANISM THEREFOR
Roscoe Alexander Coffman, Pittsburgh, Pa.
Application April 16, 1935, Serial No. 16,725
10 Claims. (Cl. 122—18)



9. In a fluid pressure motor having an annular cylinder and an oscillatory piston movable therein adapted to be moved in one direction only under influence of fluid pressure generated within the motor for providing a single power stroke for engine starting purposes, a V-block traversing the cylinder and serving as an abutment for said piston, a combustion chamber formed within the block, means for delivering a unit charge of solid fuel to said combustion chamber within which it is burned for furnishing fluid pressure to move said piston within the cylinder for its power stroke, an exhaust valve mounted on said V-block and adapted to open toward the working face of said piston, said exhaust valve being in position to be contacted by and operated by said piston at each of the limits of movement of said piston, the fluid pressure moving the piston during its working stroke also serving to retain said exhaust valve upon its seat during such working stroke, and means for returning the piston to its normal position of rest within the cylinder for a subsequent power stroke.

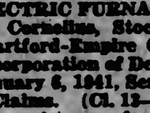
2,283,185
DIESEL ENGINE STARTER
Roscoe Alexander Coffman, Pittsburgh, Pa.
Application July 15, 1935, Serial No. 31,519
20 Claims. (Cl. 121—37)



1. In an engine starter having a piston and a rotary crank shaft operated thereby, a clutch member associated with said crank shaft adapted to engage a member to be turned, and means acting on said clutch member and permitting the same to move into complete engagement with the member to be turned independently of the cranking or power rotative movement of the crank shaft and prior to the application of normal working power to said clutch member.

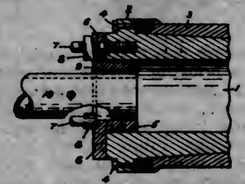
2,283,186
THIAZANE-3,5-DICARBOXYLIC ACID DERIVATIVES
Robert D. Caghill, Peoria, Ill., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa., a corporation of Maryland
No Drawing. Application February 26, 1940, Serial No. 320,396
4 Claims. (Cl. 260—243)

1. Compounds of the group consisting of thiazane- and oxythiazane-3,5 derivatives having the formula



in which X is selected from the group of S, S=O, and S(=O)2, and R is a member of the group consisting of hydrogen and alkyl, aryl, aralkyl, acyl, aroyl, aralkoyl, carbalkoxy, carboaryloxy, and alicyclic radicals, and M is selected from the class of nitrile, carboxy, carbalkoxy, carboxamide, carboxamidoalkyl, carbalkoxaminoalkyl radicals, and W is selected from the class of nitrile, carboxy, carbalkoxy, carboxamide, carboxamidoalkyl, carbalkoxaminoalkyl radicals, and also consisting of mineral acid salts of any of said compounds having at least one nitrogen atom.

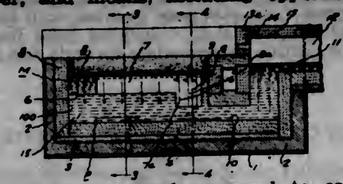
2,283,187
ADAPTER FOR CENTRIFUGAL CASTING MOLDS
Steven L. Conner, United States Army, Watervliet, N. Y.
Application June 18, 1941, Serial No. 398,596
2 Claims. (Cl. 22—65)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a centrifugal casting machine, a tubular mold, and an adapter for reception of a pouring spout applied to a face of said mold, openings in the adapter, means on the face of the mold passing through said openings respectively, slots in said means outside the adapter, wedges in said slots, and a slant surface on the outer face of said adapter of a slope complementary to that of the wedges.

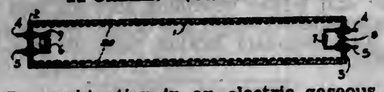
2,283,188
ELECTRIC FURNACE
Anders E. A. S. Cornelius, Stockholm, Sweden, assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware
Application January 6, 1941, Serial No. 373,228
11 Claims. (Cl. 13—6)

1. An electric resistance furnace, in which molten glass or other substance being made acts as a resistance to electric current, comprising a melting and refining chamber having an outlet passage at one end thereof in position to be submerged by a bath of the molten substance in the chamber, means for passing electric current transversely through the portion of the bath in the upper portion of the melting and refining chamber, and means, including opposed elec-



trodes, constructed and arranged to cause a greater electric current density in a portion of the bath occupying a vertical zone in the melting and refining chamber adjacent to the intake end of said passage than in the remainder of said bath, said vertical zone extending longitudinally of the melting and refining chamber for only a minor part of the entire length thereof.

2,283,189
ELECTRIC DISCHARGE LAMP
James L. Cox, Danvers, Mass., assignor to Hygrade Sylvania Corporation, Salem, Mass., a corporation of Massachusetts
Original application December 22, 1938, Serial No. 247,252. Divided and this application June 28, 1941, Serial No. 400,216
11 Claims. (Cl. 176—126)



1. In combination in an electric gaseous discharge lamp, an elongated glass tube, a glass disc at each end of said tube with the rim of the disc sealed to the end of the tube, at least one of said discs being slightly concave and having an outwardly extending exhaust tube sealed flush with the end of the tube, at least two straight stiff metal wires sealed through each of said discs and adapted to be contact prongs on the outside of said discs, a coiled-coil tungsten filament supported from each disc by said wires and electrically connected to said wires, a coating of at least one of the alkaline earth oxides on said filament, a metal bomb for holding mercury connected to one of the straight wires supporting a filament and extending close to the straight wire supporting the other end of the filament, and an inert gaseous filling at low pressure in said tube.

2,283,190
FLIGHT INDICATOR
Carl J. Crane, Dayton, Ohio
Application May 18, 1940, Serial No. 335,955
7 Claims. (Cl. 33—204)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A flight indicator for aircraft, comprising an instrument casing; a background screen disposed within said casing and comprising at least two sections movable in translation and centrally spaced apart to form a vertically extending aperture in the screen; a miniature airplane index mounted in front of said screen; a shaft on which said index is mounted, said shaft projecting through the aperture in said screen; means responsive to lateral inclination of an associated aircraft operatively connected to said shaft behind said background screen for causing rotation of said shaft and a corresponding tilting of said index indicative of the lateral inclination of the associated aircraft; and means responsive to turning of the associated aircraft operatively connected to said screen sections to cause a motion thereof creating an optical illusion of translatory motion of said background screen across the entire field of view relative to said index in a direction opposite the direction of turning of the associated aircraft.

2,283,191
PERCENTAGE CALCULATOR
Samuel Deutch, New York, N. Y.
Application February 5, 1940, Serial No. 317,443
1 Claim. (Cl. 235—69)

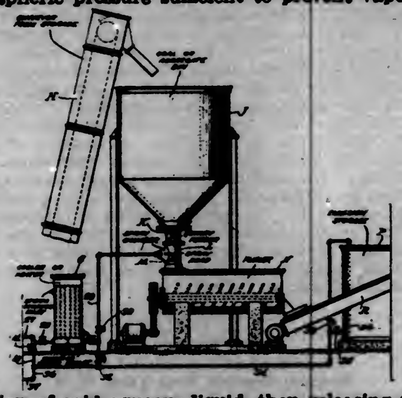


In a calculator, a body including a tray and a cover, a frame of equal length and breadth with said tray arranged within the latter and spaced from the cover and tray, said frame having longitudinal slots therein, said cover having slots therein parallel with the frame slots but out of register therewith, slides arranged upon said frame, detents on said slides engaged in said frame slots, the ends of said detents spaced from the bottom of said tray, said slides being resilient and bowed longitudinally so as to normally frictionally contact the underface of said cover, said slides having openings at their edges underlying said cover slots and disposed above portions of said frame, the inherent resiliency of said frame enabling the latter to recede from the underface of said cover when a stylus is projected through said openings and into depressing contact with the said frame to thus diminish the frictional contact between the slides and the said cover.

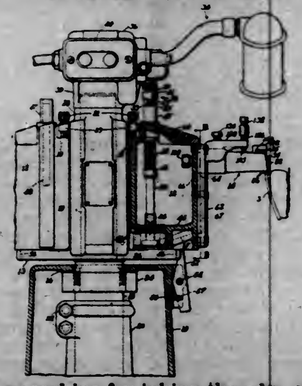
2,283,192
METHOD OF UTILIZING EMULSIONS
Marvin W. Ditto, New York, N. Y., assignor to Emulsions Process Corporation, a corporation of Delaware
Application May 4, 1938, Serial No. 206,993
8 Claims. (Cl. 106—277)

1. In a method of the character described, predispersing an aqueous liquid in a heavy hydro-

carbon oil to form an emulsion and heating the same to a temperature above the vaporization point of water at atmospheric pressure, maintaining the heated emulsion under a superatmospheric pressure sufficient to prevent vaporization of said aqueous liquid, then releasing the pressure to cause the aqueous liquid to vaporize and expand the emulsion into a foamy condition, and mixing the resulting foam with an aggregate.



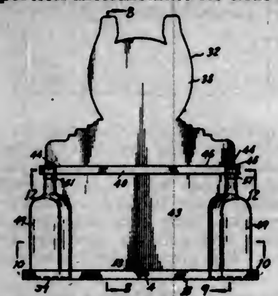
2,283,193
SOLE EDGE INKING MACHINE
Paul H. Dixon, Wenham, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application March 8, 1940, Serial No. 322,996
27 Claims. (Cl. 12—31)



1. In a machine for inking the edge of an outsole, a plurality of closely spaced blades, said blades having lower edges which normally lie in a common plane, and means for supplying ink to the spaces between the blades, each blade being independently mounted and freely displaceable from said common plane by the irregularities of the edge of the sole presented thereto.

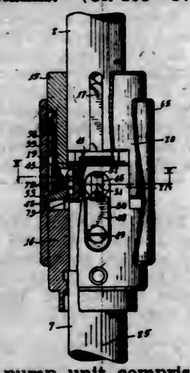
2,283,194
DISPLAY DEVICE
Edward P. Edwards, Larchmont, N. Y., assignor, by mesne assignments, to Oldetyme Distillers Corporation, a corporation of Delaware
Application April 15, 1938, Serial No. 202,325
2 Claims. (Cl. 211—74)

1. A display unit for a pair of containers—said display unit consisting of a base member having formed therein a pair of spaced apart container base receiving recesses and a locking panel receiving slot intermediate said recesses, each of said container base receiving recesses being of a geometric shape similar to the geometric shape of the base of one of the containers which is to be displayed and being of a size sufficient to snugly receive said container base; a locking panel positioned upon said base member with its lower end within said slot; a locking yoke having a cut-out portion intermediate its ends and having



formed therein a pair of spaced apart slots through which said locking panel extends slidably mounted upon said locking panel, said locking yoke also having formed therein a pair of container top encompassing sockets each positioned for encompassing the top of one of said containers; means carried by said locking panel for limiting the upward movement of said locking yoke; and means extending through said base member and said lower end of said locking panel for attaching said locking panel to said base member.

2,283,195
ADJUSTABLE MOTOR PUMP
Asa Farrell, Oakland, and Aladar Hollander and Vaino A. Hoover, Los Angeles, Calif., assignors to Byron Jackson Co., Huntington Park, Calif., a corporation of Delaware
Application March 22, 1938, Serial No. 197,394
10 Claims. (Cl. 103—87)

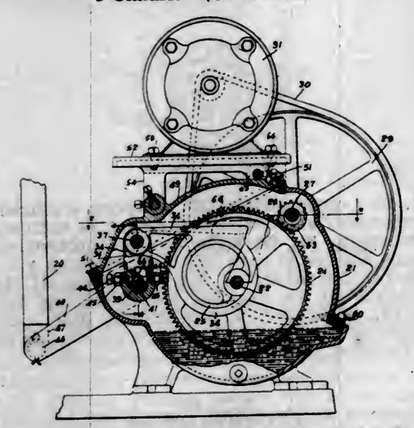


10. A rotary pump unit comprising a stator, a rotor mounted therein for rotation and for axial adjustment with respect thereto between limiting positions, sectional drive means connected to said rotor for rotating and axially supporting said rotor, means for rotatably and axially supporting said drive means at a point spaced from said rotor, and means interconnecting the sections of said sectional drive means in positive driving relation with each other, said interconnecting means including means operable in response to rotation of said drive means in a predetermined direction to axially adjust the sections of said sectional drive means with respect to each other and thereby axially adjust said rotor with respect to said stator, said adjustment being in increments of predetermined magnitude less than the axial distance between said limiting positions of said rotor, irrespective of the duration and speed of rotation of said drive means in said predetermined direction.

2,283,196
RECOVERY OF GOLD FROM TELLURIDE ORES
Colin G. Fink and Garth Louis Putnam, New York, N. Y.
No Drawing. Application November 1, 1940, Serial No. 363,895
1 Claim. (Cl. 75—105)

For extracting gold from ores which have not been previously roasted and in which a major gold-bearing constituent is a gold telluride, a process involving leaching the ore with a solvent containing free ammonia, an alkali or alkaline earth cyanide, and a sufficient amount of a compound of divalent copper to give the solution a distinct blue color.

2,283,197
SELF-OILING PUMP JACK
Karl L. Finley, Ashland, Ohio, assignor to The F. E. Myers & Bro. Company, Ashland, Ohio, a corporation of Ohio
Original application November 20, 1939, Serial No. 305,268. Divided and this application July 26, 1940, Serial No. 347,696
3 Claims. (Cl. 74—41)



1. In an improved power head, the combination of a closed casing, a gear wheel, driving pinion therefor and an eccentric on said gear wheel, a connecting link on said eccentric, a wrist pin on said link, a crank mounted in position to be driven by said wrist pin, all mounted in said casing, an oscillator shaft having its ends extending through the sides and connected to be driven by said link, bearings for said shaft, oscillator arms mounted on both ends of said shaft outside of said casing, said oscillator shaft being located below said wrist pin and link, said link being provided with oil feeding means for feeding oil to said crank, oscillator shaft bearings, and said oscillator shaft.

2,283,198
BROMINE PROCESS FOR GOLD ORES
Colin G. Fink and Garth Louis Putnam, New York, N. Y.
No Drawing. Application November 1, 1940, Serial No. 363,896
3 Claims. (Cl. 75—102)

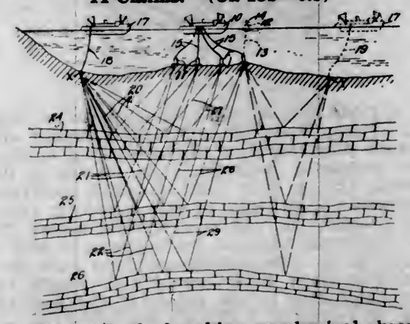
1. The process of extracting gold from its ores which comprises the step of leaching the ore with a solvent prepared by adding free chlorine to a solution containing a bromide and a large excess of a chloride salt.

2,283,199
DETERGENT
Lawrence H. Flett, Hamburg, N. Y., assignor to Allied Chemical & Dye Corporation, a corporation of New York
No Drawing. Application July 30, 1936, Serial No. 93,521
27 Claims. (Cl. 260—505)

1. A mixture of alkyl derivatives of an aromatic sulfonate of which the alkyl groups correspond with the hydrocarbons of an aliphatic hydrocarbon mixture at least 80 per cent of which boils between 210° and 320° C. and over a maximum range of 55° C., and obtainable by a process comprising halogenation of the aliphatic hydrocarbon mixture to form mixed alkyl halides, and condensation of resulting mixed alkyl halides with an aromatic compound followed by sulfonation.

15. A method of making a sulfonated product, which comprises chlorinating a petroleum distillate of the type of Pennsylvania petroleum distillate of which at least 80 per cent boils between 210° and 265° C. to produce a mixture of alkyl chlorides, condensing resulting mixed alkyl chlorides with an aromatic hydrocarbon of the benzene series to produce a mixture of alkyl derivatives of said aromatic hydrocarbon, and sulfonating a mixture of said alkyl derivatives.

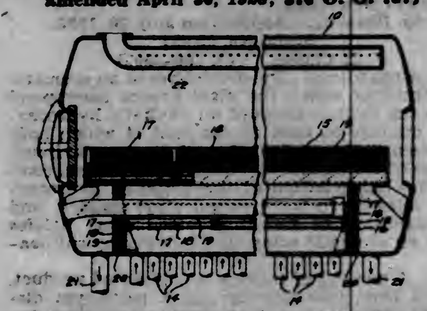
2,283,200
METHOD AND APPARATUS FOR SUBSURFACE MINING
John William Flude, New Orleans, La.
Application September 16, 1939, Serial No. 295,198
11 Claims. (Cl. 181—0.5)



1. The method of making geophysical observations for determining the location and nature of underwater geological structures from a moving vessel which method comprises establishing a shot point by planting an explosive charge on the bottom of the body of water under which observations are to be taken, proceeding on a predetermined course a predetermined distance from said shot point while simultaneously towing a plurality of detectors through the water and then per-

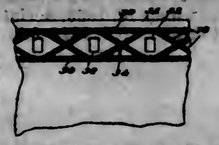
mitting said detectors to sink to the bottom, establishing another shot point in predetermined spaced relationship to the first while maintaining contact with the first shot point and with the detectors, exploding the charges located at said shot points consecutively and making geophysical observations therefrom, and then raising the detectors substantially simultaneously from the bottom and continuing to tow them through the water.

2,283,201
STEAM GENERATOR
Claude S. Gillette, Philadelphia, and Ralph C. Brierly, Narberth, Pa.
Application June 1, 1939, Serial No. 276,241
17 Claims. (Cl. 122—491)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



3. A vapor generator having a vapor liberating drum and vapor generating and downcomer tubes connected with the drum, and wire mesh screen means disposed in the drum intermediate vapor generating tubes and downcomer tubes.

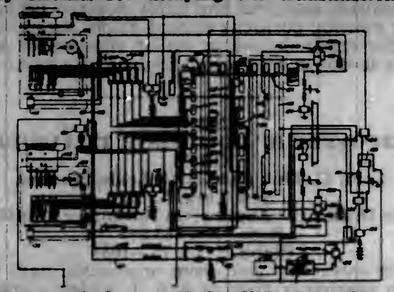
2,283,202
REINFORCED MOTION PICTURE FILM
Léon Jean-Baptiste Guyard, Paris, France, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application August 5, 1939, Serial No. 288,565
In France August 18, 1938
6 Claims. (Cl. 88—19.5)



4. A reinforced strip of plastic material having a series of marginal perforations therein, and a narrow substantially continuous ribbon of glass fibers embedded throughout its length in the material of the strip and extending generally lengthwise of the series of perforations in proximity thereto, the ribbon extending across the spaces between adjacent perforations in such a manner as to substantially surround each perforation at three sides thereof and thereby reinforce the strip in the region of the perforations.

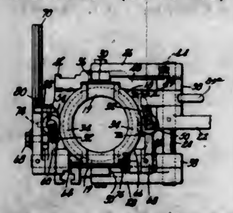
2,283,203
SEMIAUTOMATIC CONTROL SYSTEM
John A. Hall, Summit, and Alfred E. Melhose, Westfield, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 31, 1940, Serial No. 354,290
22 Claims. (Cl. 178—4)

1. In a communication system, a transmission channel normally conditioned against the transmission of voice currents, means at the transmitting end of said channel responsive to voice currents for switching both the transmitting and receiving ends of said channel into condition for the transmission of voice currents, voice current delay circuits for delaying the transmission of



voice currents for a period sufficient to allow said switching operations to be completed before the arrival of said voice currents at the receiving end of said channel and means responsive to the arrival of said voice currents at the said receiving end of said channel prior to the completion of said switching operations for operating an alarm.

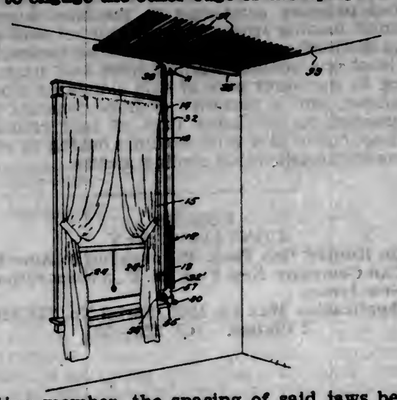
2,283,204
FINISHING MACHINE
William Hamann, Irondequoit, N. Y., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application May 17, 1940, Serial No. 335,725
16 Claims. (Cl. 12—78)



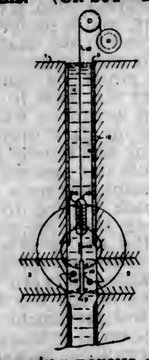
1. In a burnishing machine having a plurality of operating stations, a tool holder at each station, means for vibrating the tool holders, and means associated with the tool holder at a station for disconnecting the tool holder at that station from the vibrating means and for moving the tool holder to and holding it in a disconnected position of rest whereby a station can be rendered inoperative when not in use.

2,283,205
CLOTHES DRIER
Walter K. Harris, Richmond, Va.
Application September 20, 1940, Serial No. 357,648
4 Claims. (Cl. 211—162)

1. A clothes drier adapted to be supported upon one side of a window frame or like upright supporting member comprising a guideway of less width than the width of the supporting member, a guide member movably mounted on the guideway, a clothes supporting head at the upper end of the guide member, and a clamping attachment on the guideway comprising jaws for engaging opposite edges of the upright supporting member, one jaw being mounted in alinement with one of the edges of the guideway to engage one edge of the upright supporting member and the other jaw being spaced laterally out of alinement with the other edge of the guideway to engage the other edge of the upright supporting member, the spacing of said jaws being such as to hold the drier supported substantially at one side of the vertical center of the upright supporting member.



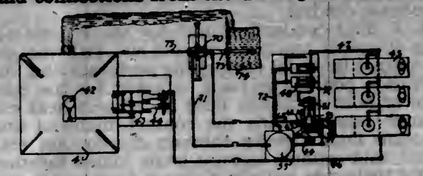
2,283,206
METHOD OF CONTROLLING WELL FLUIDS
John T. Hayward, Tulsa, Okla.
Application April 4, 1938, Serial No. 199,831
3 Claims. (Cl. 204—181)



1. In a well traversing porous earth strata and having therein in contact with said strata a mud fluid containing solid particles bearing electrical charges, the method of sealing said strata which comprises, subjecting said strata and said mud fluid to an electric field, and controlling the direction of said field to make said strata of opposite polarity relative to the sign of the electrical charges on said solid particles to thereby cause said particles to deposit in the pores of said strata.

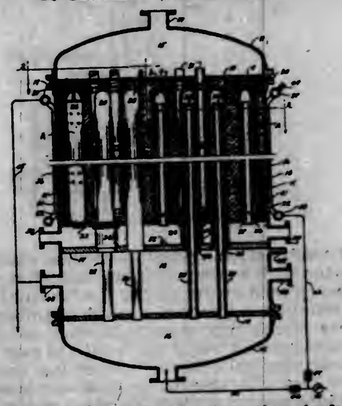
2,283,207
ROTARY WELL DRILLING SYSTEM
Aladar Hollander, Los Angeles, Calif., assignor to Byron Jackson Co., Huntington Park, Calif., a corporation of Delaware
Original application March 21, 1938, Serial No. 197,139. Divided and this application November 18, 1939, Serial No. 305,136
3 Claims. (Cl. 255—24)

1. In a well drilling system, in combination with a drilling rig including a drill string: a source of supply of abrasive drilling mud, and a pumping system for delivering abrasive drilling mud from said source to the drill string in a steady flow and at steady pressure, comprising a centrifugal pump; driving means therefor; and means for impressing on said abrasive drilling mud the pressure and volume characteristics of said centrifugal pump while protecting the latter from the deleterious effect of direct contact of the drilling mud therewith, said means comprising a cylinder and a movable partition in the cylinder dividing the latter into a drilling mud compartment and a motive liquid compartment; fluid connections from the drilling mud source to



said drilling mud compartment and from the latter to said drill string; a source of clear, nonabrasive motive liquid having no deleterious effect on said centrifugal pump, and fluid connections from said last-named source to the centrifugal pump and from the latter to the motive liquid compartment of said cylinder; whereby the pressure and volume characteristics of the centrifugal pump are indirectly impressed on the drilling mud through the intermediacy of the motive liquid, and admixture of the drilling mud and motive liquid are substantially prevented by the movable partition in said cylinder.

2,283,208
CATALYTIC CONVERTER
Eugene J. Houdry, Ardmore, and Thomas B. Prickett, Philadelphia, Pa., assignors to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
Application March 14, 1939, Serial No. 261,728
10 Claims. (Cl. 23—288)



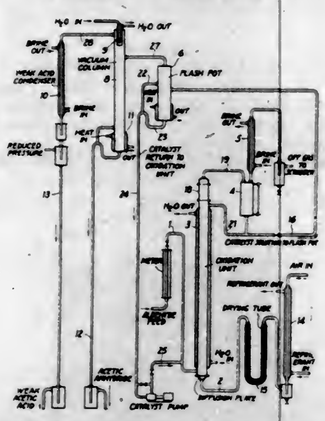
1. In apparatus for effecting chemical reactions, a converter having a reaction chamber, a contact mass in said chamber, perforated conduits embedded in said mass in symmetrical arrangement, composite conduit assemblages positioned in the mass at spaced intervals, said assemblages comprising perforate and imperforate conduits secured together along their side walls adapted to pass reaction fluid and heat exchange fluid in heat conducting relation with the contact mass, said perforated portions of the as-

semblage being so constructed and arranged to cooperate with the first mentioned perforated conduits in transferring reaction fluid through the mass.

5. The combination with a contact mass for effecting chemical reactions of a composite conduit assemblage embedded in said mass, said assemblage comprising perforate and imperforate conduits joined along their outer walls in heat conducting relationship for passing reaction fluid through the contact mass from a perforate conduit and heat exchange fluid in indirect heat exchange relation with the mass through an imperforate conduit.

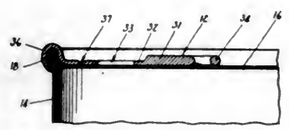
8. A fluid conducting unit for use in controlling chemical reactions carried out with the aid of contact material comprising perforate and imperforate conduit sections, adapted for the passage of heat exchange fluid in indirect heat exchange relation with the contact material and reaction fluid directly through the contact material, said conduit sections being joined together along their side walls in heat conducting relation in order to transfer heat between said contact material and said heat exchange fluid.

2,283,209
APPARATUS FOR THE MANUFACTURE OF ORGANIC ACID ANHYDRIDES
David C. Hull and Claire A. Marshall, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application May 18, 1939, Serial No. 274,426
6 Claims. (Cl. 23—260)



1. A combination oxidation-vacuum distillation apparatus which comprises an elongated closed-chamber, closed excepting for the hereinafter defined conduits connected to said chamber, temperature controlling means in close association with substantially the entire length of said chamber, a withdrawal conduit connecting the upper part of said chamber to a separator positioned at a height approximately the same as the height of the upper portion of said chamber, said separator having attached thereto a sight glass and a condenser, a return conduit connecting the separator to a lower point in said elongated closed-chamber, conduit means connecting said separator to a flash pot in series with and connected to a closed vacuum distillation column, both the flash pot and column having associated with the lower portion thereof indirect heating means so that the heating medium cannot become intermixed with the contents being heated, a conduit leading from the upper part of said vacuum distillation column through a condenser to a trap, a further conduit means adapted for applying reduced pressure connected to the trap, another conduit leading from the lower part of said vacuum distillation column through trap means, and at least one conduit leading from said flash pot back to the lower part of said elongated closed-chamber, and a plurality of inlet conduits also connected to the lower part of said chamber, at least one of said inlet conduits having in series therewith refrigerated cooling means.

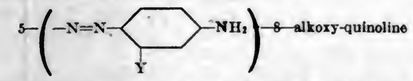
2,283,210
CONTAINER KEY
John Hunter, Oak Park, Ill., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application May 23, 1939, Serial No. 275,320
2 Claims. (Cl. 220—52)



1. A break-off key adapted to be attached to a projecting seam of a sheet metal tearing strip can, said key including a shank having a flattened portion provided with a slot for engagement with the tearing strip, a handle part at one end of the shank, and a preformed hook portion at the opposite end of the shank, said hook portion being tightly and permanently clinched over and around the projecting seam of the can with the outer end of the hook in substantial abutting engagement against a wall of said can for holding the key in place during shipment and storage, the shank and handle portion of the key lying substantially flat against an adjacent can wall, said key shank having a weakened section adjacent said hook portion to facilitate breaking the key away from its hook portion when the handle of the key is lifted outwardly and leaving its hook portion secured to the can seam, the abutting relation between the outer end of said hook portion of the key and the can wall preventing rotative movement of said key relative to the can seam so as to augment the breaking action, the resulting broken off shank portion of the key being free from any protruding obstruction which will interfere with proper turning of the key relative to the can when opening the latter by removing the tearing strip.

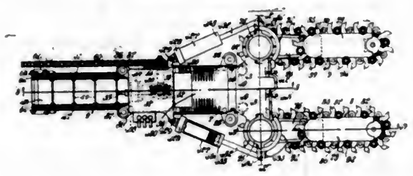
2,283,211
QUINOLINE-AZO COMPOUNDS
William S. Jones and William Braker, Brooklyn, N. Y., assignors to E. R. Squibb & Sons, New York, N. Y., a corporation of New York
No Drawing. Application December 23, 1939, Serial No. 310,831
5 Claims. (Cl. 260—155)

1. A compound of the group consisting of: azo bases of the general formula



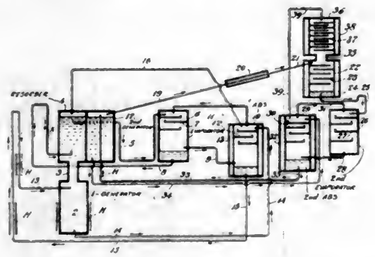
wherein Y represents a member of the group consisting of hydrogen, alkyl, phenyl, hydroxy, alkoxy, and amino; and acid-addition salts thereof.

2,283,212
MINING MACHINE
Joseph F. Joy, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application May 23, 1935, Serial No. 23,088
10 Claims. (Cl. 262—29)



1. In a mining and loading apparatus, in combination, a portable base, means on said base providing a longitudinal guideway, conveying means on said base including a conveyor frame mounted on said guideway-providing-means to slide longitudinally along said guideway relative thereto, a frame superimposed on said conveyor frame, means for mounting said superimposed frame on said conveyor frame for adjustment in a vertical direction relative thereto, coal cutting and dislodging means mounted on said vertically adjustable frame for horizontally cutting the coal at different elevations and for breaking down the coal and moving the broken down coal toward the receiving end of said conveying means, means for adjusting said vertically adjustable frame in a vertical direction relative to said conveyor frame to vary the elevation of said coal cutting and dislodging means relative to the level of the mine floor, means for moving said conveyor frame along said guideway to move said coal cutting and dislodging means toward and from the coal face, and means for operating said coal cutting and dislodging means to effect their cutting and dislodging functions.

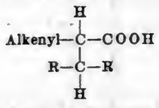
2,283,213
REFRIGERATING SYSTEM
Abram Katzow, Indianapolis, Ind.
Application June 17, 1939, Serial No. 279,669
7 Claims. (Cl. 62—119.5)



7. In resorption refrigerating apparatus, a primary generator containing a solution of refrigerant in an absorbent, means for heating said primary generator to expel refrigerant from the absorbent therein, a resorber containing a solution of refrigerant in absorbent to be strengthened by the refrigerant expelled from said primary generator, and a secondary generator in heat-exchanging relationship with said resorber and containing a solution of refrigerant in absorbent.

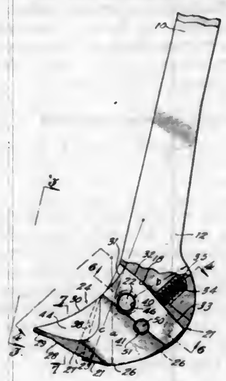
2,283,214
WASHING, WETTING, AND EMULSIFYING AGENT
Lucas P. Kyrides, Webster Groves, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application December 24, 1937, Serial No. 181,597
16 Claims. (Cl. 252—89)

4. A washing, wetting and emulsifying agent comprising a water-soluble salt of a condensation product of an unsaturated aliphatic carboxylic acid containing the alpha-beta-enal grouping with a compound selected from the group consisting of aliphatic mono-olefins and alkyl chlorides containing at least five and less than seventeen carbon atoms in the molecule, which condensation product consists of a carboxylic acid corre-



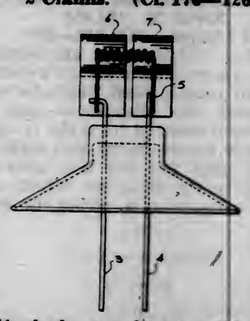
in which R is selected from the group consisting of hydrogen, carboxyl and lower alkyl radicals and in which the alkenyl group contains at least five and less than seventeen carbon atoms in the molecule.

2,283,215
CLAW BAR
John Thorne Lane, New York, N. Y.
Application September 30, 1940, Serial No. 358,947
9 Claims. (Cl. 254—24)



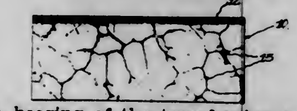
1. A claw bar or the like including a lever arm, a fulcrum head at the lower end thereof, said fulcrum head being bifurcated and having a pair of parallel arms, the lower faces of said arms being curved to provide an arcuate rolling fulcrum surface, a pair of gripping jaws disposed between said arms, means pivoting them in position to swing back and forth in the space between the arms, the contiguous faces of the gripping jaws having a fulcrum intermediate the length thereof whereby the jaws may rock laterally as they pivot, the outer faces of the jaws tapering downwardly and inwardly and bearing against contiguous faces of the two fulcrum head arms whereby as the jaws swing upwardly between the fulcrum head arms their forward ends will swing toward each other on their abutting fulcrum faces, and means acting to urge the jaws to swing downwardly and therefore inwardly toward their gripping position.

2,283,216
CATHODE FOR DISCHARGE TUBES
Erwin F. Lowry, Swampscott, Mass., assignor to Hygrade Sylvania Corporation, Salem, Mass., a corporation of Massachusetts
Application July 19, 1941, Serial No. 403,149
2 Claims. (Cl. 176—126)



1. A cathode for an electric gaseous discharge device comprising: a filamentary electrode; a coating of alkaline earth oxide on said filamentary electrode; and two cylindrical shields coaxial with said filamentary electrode and spaced longitudinally from each other, each of said shields being placed at, and electrically connected to, an end of said filamentary electrode and each of said shields being open at both of its ends.

2,283,217
BEARING
William E. McCullough, Detroit, Mich., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich., a corporation of Michigan
Application December 5, 1938, Serial No. 243,960
7 Claims. (Cl. 308—237)

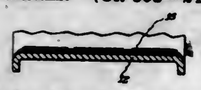


1. In a bearing of the type having a layer of lead overlying a layer of lead-containing bearing alloy, the improvement which comprises: a finished bearing surface on the bearing alloy; and a thin film of electrolytic lead of uniform thickness covering the finished surface of the bearing alloy, said lead film having a molecularly continuous surface and being molecularly continuous with lead portions of the bearing alloy.

2,283,218
PROCESS OF MANUFACTURING BEARINGS
William E. McCullough, Detroit, Mich., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich., a corporation of Michigan
Original application December 5, 1938, Serial No. 243,960. Divided and this application August 30, 1939, Serial No. 292,638
1 Claim. (Cl. 204—23)

The process which comprises forming a bearing layer of an alloy containing from 5 to 50% of lead, forming a finished bearing surface on the bearing alloy, and electro-depositing on said smooth surface a film of lead not over approximately one thousandth of an inch in thickness, thereby producing a lead film which has a molecularly continuous surface and which is molecularly continuous with lead portions of the bearing alloy, the lead film being of uniform thickness and constituting a bearing surface without the necessity of any machining operations prior to installation.

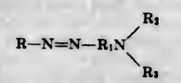
2,283,219
BEARING
William E. McCullough, Detroit, Mich., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich., a corporation of Michigan
Application November 24, 1939, Serial No. 305,772
5 Claims. (Cl. 308—242)



1. In a bearing structure, a layer of bearing alloy comprising from 1 to 7½% of lead, the balance being substantially all silver.

2,283,220
AZO COMPOUNDS AND MATERIAL COLORED THEREWITH
James G. McNally and Joseph B. Dickey, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application June 2, 1939, Serial No. 277,084
9 Claims. (Cl. 260—155)

1. The azo compounds having the general formula:

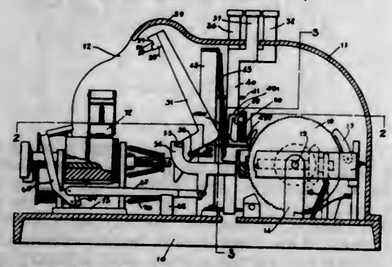


wherein R represents a quinoline nucleus attached to the azo group in position 5 or 8, R_1 represents a benzene coupling component nucleus containing group



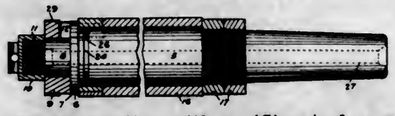
in para position to the azo group, R_2 represents a member selected from the group consisting of hydrogen, an alkyl group, a hydroxyalkyl group, a cycloalkyl group, and a phenyl group, and R_3 represents a member selected from the group consisting of an alkyl group, a hydroxyalkyl group, a cycloalkyl group, and a phenyl group.

2,283,221
LOGGING STRIP PRINTING APPARATUS
Frank L. Michaels, Fort Thomas, Ky.
Application May 26, 1938, Serial No. 210,244
8 Claims. (Cl. 197—1)



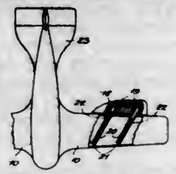
2. In a key operated printing machine for a logging strip, the combination of a platen and feed roll adapted to support such a strip, a plurality of type bars having blank type faces of different thicknesses adapted to strike the strip on said platen, key bars to actuate said type bars, and platen rotating mechanism mechanically conditionable by type bar actuating movement of the several keybars to effect advancement of the strip lengthwise exactly equal to the thickness of the type face.

2,283,222
RIFLING TOOL
Frank A. Miller, Troy, and John D. De Voge, Watervliet, N. Y.
Application July 8, 1940, Serial No. 344,316
6 Claims. (Cl. 29—96)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



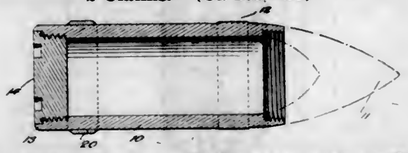
6. In combination with a rifling tool, a guide member adapted to concentrically surround said tool and comprising a collar having in its outer wall longitudinally extending spaced grooves and an insert of hard facing material in each groove.

2,283,223
AIRCRAFT
Fritz Nallinger, Stuttgart, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany
Application December 14, 1938, Serial No. 245,605
In Germany December 14, 1937
11 Claims. (Cl. 244—43)



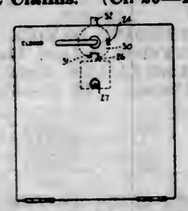
1. Aircraft comprising releasable auxiliary supporting surfaces, pivotal attachment means between said auxiliary surfaces and normal supporting surfaces of said aircraft, locking means normally locking said attachment means against any movement but partially releasable to permit pivotal movement and wholly releasable to permit separation of said auxiliary surfaces from said aircraft, and control means operable on said locking means.

2,283,224
PROJECTILE
Harry J. Nichols, Binghamton, N. Y.
Application July 6, 1940, Serial No. 344,261
2 Claims. (Cl. 102—26)



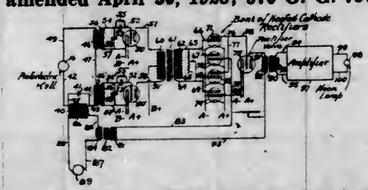
1. An article of manufacture comprising a ferrous projectile body for rifled cannon having a cylindrical body portion of substantially uniform diameter behind the nose and free from rotating band grooves or lands and having a deposited bonded rotating band in the form of an integral homogeneous ring built up in its entirety directly on the outer cylindrical surface of said body portion to full band height from at least one of the soft non-ferrous metals.

2,283,225
BEACH LOCKER
Lucy Parsek, West New York, N. J.
Application August 1, 1939, Serial No. 287,715
2 Claims. (Cl. 20—16)



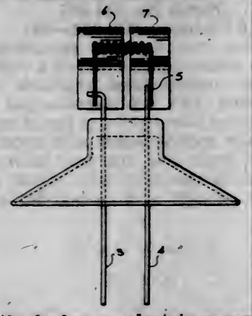
1. A door formed with an opening, a plate rotatably mounted on said door and disposed on the inside of the door, a handle fixed to said plate and disposed on the outside of said door, said plate having a cut-away portion adapted to register with the opening in the door in one angular position of said plate, and a lock on said door having a latch adapted to be received in said cut-away portion of the plate in another angular position of said plate, said plate having means to lock the door in the last mentioned angular position of said plate, said last mentioned lock means being in unlocking position when said plate is in the first mentioned angular position.

2,283,226
METHOD AND MEANS FOR DEFINING CONTOURS FROM STEREOSCOPIC PHOTOGRAPHS
Harry B. Porter, Huntington, W. Va.
Application March 19, 1941, Serial No. 384,071
8 Claims. (Cl. 178—6.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



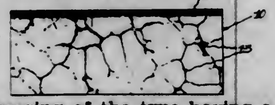
1. A device for outlining contours at various elevations from stereoscopic photographs comprising in combination a scanner, an analyzer, and a plotter, the scanner including means for coincidently and simultaneously projecting images of a pair of stereoscopic photographs at predetermined image frequencies upon an adjustable scanner screen, and projecting and scanning means adapted to project beams reflected from corresponding points on said images upon a photoelectric cell, the analyzer including a circuit for said photoelectric cell inductively coupled to an energizing circuit, resonant circuits including electron tubes tuned to said image frequencies and inductively coupled to said photoelectric cell circuit, a rectifier circuit including a bank of rectifiers and an electronic valve coupled inductively to said resonant circuits and said energizing circuit and an amplifier coupled induc-

2,283,216
CATHODE FOR DISCHARGE TUBES
Erwin F. Lowry, Swampscott, Mass., assignor to Hygrade Sylvania Corporation, Salem, Mass., a corporation of Massachusetts
Application July 19, 1941, Serial No. 403,149
2 Claims. (Cl. 176—126)



1. A cathode for an electric gaseous discharge device comprising: a filamentary electrode; a coating of alkaline earth oxide on said filamentary electrode; and two cylindrical shields coaxial with said filamentary electrode and spaced longitudinally from each other, each of said shields being placed at, and electrically connected to, an end of said filamentary electrode and each of said shields being open at both of its ends.

2,283,217
BEARING
William E. McCullough, Detroit, Mich., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich., a corporation of Michigan
Application December 5, 1938, Serial No. 243,960
7 Claims. (Cl. 308—237)



1. In a bearing of the type having a layer of lead overlying a layer of lead-containing bearing alloy, the improvement which comprises: a finished bearing surface on the bearing alloy; and a thin film of electrolytic lead of uniform thickness covering the finished surface of the bearing alloy, said lead film having a molecularly continuous surface and being molecularly continuous with lead portions of the bearing alloy.

2,283,218
PROCESS OF MANUFACTURING BEARINGS
William E. McCullough, Detroit, Mich., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich., a corporation of Michigan
Original application December 5, 1938, Serial No. 243,960. Divided and this application August 30, 1939, Serial No. 292,638
1 Claim. (Cl. 204—23)

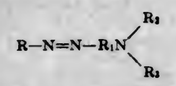
The process which comprises forming a bearing layer of an alloy containing from 5 to 50% of lead, forming a finished bearing surface on the bearing alloy, and electro-depositing on said smooth surface a film of lead not over approximately one thousandth of an inch in thickness, thereby producing a lead film which has a molecularly continuous surface and which is molecularly continuous with lead portions of the bearing alloy, the lead film being of uniform thickness and constituting a bearing surface without the necessity of any machining operations prior to installation.

2,283,219
BEARING
William E. McCullough, Detroit, Mich., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich., a corporation of Michigan
Application November 24, 1939, Serial No. 305,772
5 Claims. (Cl. 308—242)

1. In a bearing structure, a layer of bearing alloy comprising from 1 to 7½% of lead, the balance being substantially all silver.

2,283,220
AZO COMPOUNDS AND MATERIAL COLORED THEREWITH
James G. McNally and Joseph B. Dickey, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application June 2, 1939, Serial No. 277,084
9 Claims. (Cl. 260—155)

1. The azo compounds having the general formula:

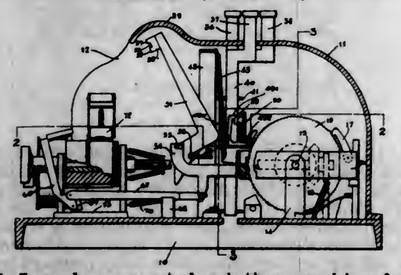


wherein R represents a quinoline nucleus attached to the azo group in position 5 or 8, R_1 represents a benzene coupling component nucleus containing group



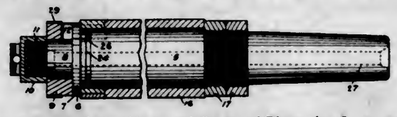
in para position to the azo group, R_2 represents a member selected from the group consisting of hydrogen, an alkyl group, a hydroxyalkyl group, a cycloalkyl group, and a phenyl group, and R_3 represents a member selected from the group consisting of an alkyl group, a hydroxyalkyl group, a cycloalkyl group, and a phenyl group.

2,283,221
LOGGING STRIP PRINTING APPARATUS
Frank L. Michaels, Fort Thomas, Ky.
Application May 26, 1938, Serial No. 210,244
8 Claims. (Cl. 197—1)



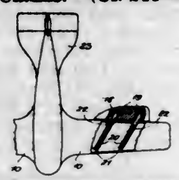
2. In a key operated printing machine for a logging strip, the combination of a platen and feed roll adapted to support such a strip, a plurality of type bars having blank type faces of different thicknesses adapted to strike the strip on said platen, key bars to actuate said type bars, and platen rotating mechanism mechanically conditionable by type bar actuating movement of the several keybars to effect advancement of the strip lengthwise exactly equal to the thickness of the type face.

2,283,222
RIFLING TOOL
Frank A. Miller, Troy, and John D. De Voge, Watervliet, N. Y.
Application July 8, 1940, Serial No. 344,316
6 Claims. (Cl. 29—96)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



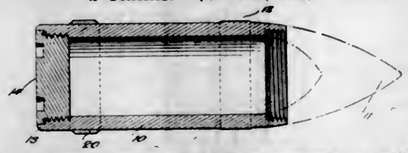
6. In combination with a rifling tool, a guide member adapted to concentrically surround said tool and comprising a collar having in its outer wall longitudinally extending spaced grooves and an insert of hard facing material in each groove.

2,283,223
AIRCRAFT
Fritz Nallinger, Stuttgart, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany
Application December 14, 1938, Serial No. 245,605
In Germany December 14, 1937
11 Claims. (Cl. 244—43)



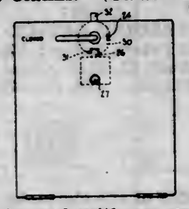
1. Aircraft comprising releasable auxiliary supporting surfaces, pivotal attachment means between said auxiliary surfaces and normal supporting surfaces of said aircraft, locking means normally locking said attachment means against any movement but partially releasable to permit pivotal movement and wholly releasable to permit separation of said auxiliary surfaces from said aircraft, and control means operable on said locking means.

2,283,224
PROJECTILE
Harry J. Nichols, Binghamton, N. Y.
Application July 6, 1940, Serial No. 344,261
2 Claims. (Cl. 102—26)



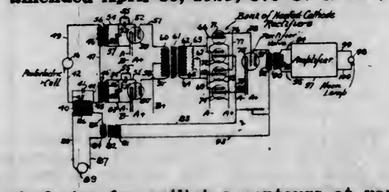
1. An article of manufacture comprising a ferrous projectile body for rifled cannon having a cylindrical body portion of substantially uniform diameter behind the nose and free from rotating band grooves or lands and having a deposited bonded rotating band in the form of an integral homogeneous ring built up in its entirety directly on the outer cylindrical surface of said body portion to full band height from at least one of the soft non-ferrous metals.

2,283,225
BEACH LOCKER
Lucy Parsek, West New York, N. J.
Application August 1, 1939, Serial No. 287,715
2 Claims. (Cl. 20—16)



1. A door formed with an opening, a plate rotatably mounted on said door and disposed on the inside of the door, a handle fixed to said plate and disposed on the outside of said door, said plate having a cut-away portion adapted to register with the opening in the door in one angular position of said plate, and a lock on said door having a latch adapted to be received in said cut-away portion of the plate in another angular position of said plate, said plate having means to lock the door in the last mentioned angular position of said plate, said last mentioned lock means being in unlocking position when said plate is in the first mentioned angular position.

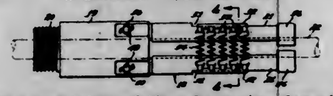
2,283,226
METHOD AND MEANS FOR DEFINING CONTOURS FROM STEREOSCOPIC PHOTOGRAPHS
Harry B. Porter, Huntington, W. Va.
Application March 19, 1941, Serial No. 384,071
8 Claims. (Cl. 178—6.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A device for outlining contours at various elevations from stereoscopic photographs comprising in combination a scanner, an analyzer, and a plotter, the scanner including means for coincidently and simultaneously projecting images of a pair of stereoscopic photographs at predetermined image frequencies upon an adjustable scanner screen, and projecting and scanning means adapted to project beams reflected from corresponding points on said images upon a photoelectric cell, the analyzer including a circuit for said photoelectric cell inductively coupled to an energizing circuit, resonant circuits including electron tubes tuned to said image frequencies and inductively coupled to said photoelectric cell circuit, a rectifier circuit including a bank of rectifiers and an electronic valve coupled inductively to said resonant circuits and said energizing circuit and an amplifier coupled induc-

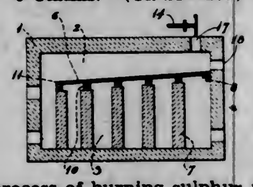
tively to said rectifier and said energizing circuit, and the plotter including a projector having a lamp operatively connected to said amplifier, scanning means operating in synchronism with the scanning means of said scanner and an adjustable plotting screen, said plotter being adapted to project a beam upon said plotting screen defining a contour at a predetermined elevation, dependent on the adjustment of said scanner screen, when the intensities of the points reflected upon said photoelectric cell of the scanner are equal.

2,283,227
FEEDING DEVICE
John Peters, Detroit, Mich.
Application April 22, 1940, Serial No. 330,873
3 Claims. (Cl. 29—62)



1. In a machine of the character described for feeding rod stock longitudinally, a carrier member having an aperture therethrough to receive the stock, a plurality of elongated friction members between which the stock extends longitudinally thereof, means for loosely and pivotally attaching said friction members to said carrier member comprising pivot elements engaging transversely elongated bearing bores whereby to provide for movement of said friction members inwardly to engage the rod stock, and spring means connected between said friction members and uging said friction members into engagement with the rod stock.

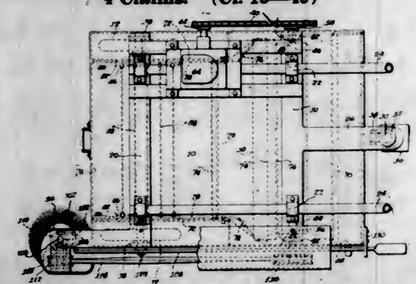
2,283,228
PROCESS AND APPARATUS FOR BURNING SULPHUR
Albert Regenbrecht, Linden, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application December 23, 1939, Serial No. 310,815
9 Claims. (Cl. 23—179)



2. The process of burning sulphur which comprises feeding molten sulphur at a temperature below that at which it is viscous to the upper end of a flat, slightly sloping hearth, permitting said sulphur to flow down over said hearth and heating said sulphur during said flow until it becomes viscous and forms a relatively thick dam of slow-moving viscous sulphur further heating said dam of viscous sulphur so that sulphur at its leading edge again becomes fluent and flows away in a thin film and vaporizes, so that the leading edge of the zone of viscous sulphur remains substantially stationary.

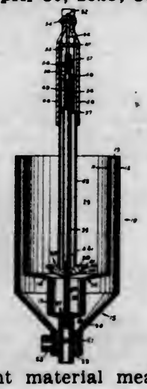
7. In apparatus of the class described a sulphur burner comprising a volatilization chamber the bottom of which is defined by a substantially flat sloping hearth inclined to the horizontal at an angle between about 1 and 3 degrees, a combustion chamber in heat transfer relation to said volatilization chamber, means for feeding sulphur to the upper end of said hearth, means for conducting sulphur vapor from said vaporization chamber to said combustion chamber, and means for co-mingling air with said sulphur vapor, said hearth being of sufficient extent in the direction of its slope as to provide for complete vaporization of sulphur therefrom.

2,283,229
MECHANIZED CLEANING DEVICE
Joseph B. Richards, Detroit, Mich.
Application September 8, 1939, Serial No. 293,990
4 Claims. (Cl. 15—49)



1. In a vehicle movable over a surface to be cleaned and having a body structure, a pair of horizontal, vertically spaced supporting arms rigidly supported by the body structure at one side of the leading end thereof, a shaft vertically supported by said arms for movement axially and rotatably relatively thereto, brush means fixed to the lower end of said shaft for movement axially and rotatably therewith into and out of cleaning engagement with the surface, a third supporting arm rigidly arranged intermediate said other arms in substantial parallelism therewith, a pair of integral members mounted on said shaft for rotation therewith and relatively thereto and supported on opposite sides of said third arm against axial movement relatively to the latter, a third member mounted on said shaft for rotation therewith and movable axially with said shaft and brush means into and out of driven engagement with one of said integral members, and means in driving engagement with the other of said integral members.

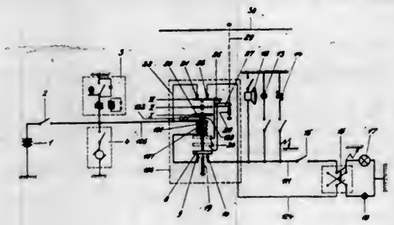
2,283,230
FILLING DEVICE FOR SHELLS
George D. Rogers, United States Army, Dover, N. J.
Application December 9, 1940, Serial No. 369,271
10 Claims. (Cl. 221—112)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a fluent material measuring device in

combination, means forming a measuring chamber having an inlet and outlet, independently movable valves for said inlet and outlet, a valve stem secured to the valve for said outlet and slidably receiving said inlet valve, means interposed between said outlet valve stem and inlet valve biased to seat one of said valves and unseat the other of said valves, and means including said biasing means for alternately seating and unseating said valves.

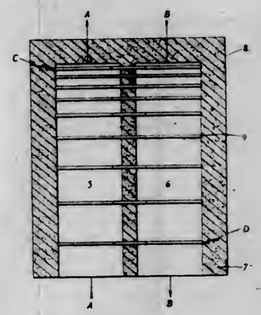
2,283,231
ELECTRICAL DISTRIBUTION SYSTEM
Karl Schmitt, Stuttgart-Degerloch, Germany, assignor to Dr. ing. h. c. F. Porsche K.-G., Stuttgart-Zuffenhausen, Germany, a company of Germany
Application December 8, 1939, Serial No. 308,249
In Germany November 25, 1938
12 Claims. (Cl. 171—97)



4. In an electrical distribution system, a source of power, one or more main loads, an auxiliary load, and switching means for connecting said source of power to one or the other of said loads, including a core, a pair of contacting bridges carried by said core, a pair of first contacts normally bridged by one of said bridges, an actuating coil for said core connected at one end to said source of power and at the other end to one of said first pair of contacts, a conductor connecting the other of said first pair of contacts to said main load, a short-circuited coil surrounding said core to delay movement of said switch in response to current flow through said first coil, a second pair of contacts adapted to be bridged by the other bridge upon movement of said switch by said actuating coil, a conductor connecting one of said second pair of contacts to said source of power, and a conductor connecting the other of said second pair of contacts to said auxiliary load.

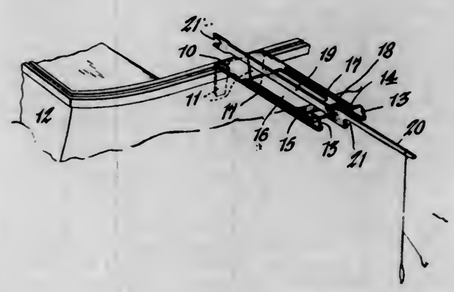
2,283,232
COOLING OF GASEOUS MIXTURES
Paul Maurice Schuftan, Richmond Hill, England, assignor to The British Oxygen Company Limited, London, England
Application March 28, 1940, Serial No. 326,466
In Great Britain March 24, 1939
9 Claims. (Cl. 62—122)

1. In a process for precooling and prepurifying a gaseous mixture which includes passing said mixture through one of a set of periodically alternating regenerators surrounded by heat insulating material, and passing gases emerging therefrom into tubular heat exchangers having a heat absorbing fluid, the improvement comprising diverting a part of the heat absorbing fluid from at least one tubular heat exchanger, and absorbing sufficient heat from the heat insulating material in said heat absorbing fluid to compensate for heat passing through said



material from external sources to the regenerators.

2,283,233
FISHING APPLIANCE
Lewis W. Shafer, Buffalo, N. Y.
Application April 7, 1941, Serial No. 387,160
5 Claims. (Cl. 43—16)

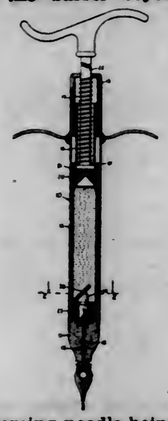


1. A fishing appliance of the character described, comprising a bracket having means thereon for anchoring it in an operative position overhanging a body of water, and a vertically-swinging tip-up arm fulcrumed intermediate its ends to said bracket, that portion of the arm forwardly of its fulcrum constituting a support for the suspended fish line, the remaining portion of said arm being notched at its opposite ends and constituting a retainer about which the line is adapted to be reeled when not in use.

2,283,234
HYPODERMIC SYRINGE CONSTRUCTION
Arthur E. Smith, Los Angeles, Calif.
Application May 5, 1939, Serial No. 271,888
3 Claims. (Cl. 128—218)

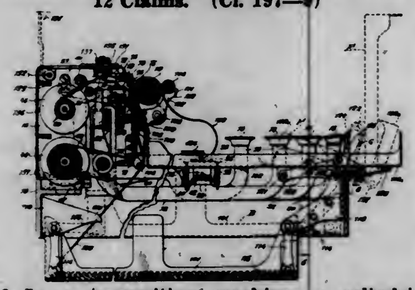
1. In a syringe, a cylindrical barrel having a front and rear member thereon, said rear member having means thereon to engage a cylindrical ampule, a plunger in the rear member, said front member having a hole therethrough, and an injecting needle passing through said hole and adapted to pass into the ampule, and a piercing

needle fixed on the one of the members and extending into the barrel beyond the injecting



needle, said piercing needle being disposed at one side of the axis of the cylindrical barrel.

2,283,235
TYPEWRITING MACHINE
Howard B. Smith, Washington, D. C.
Application March 4, 1938, Serial No. 193,974
12 Claims. (Cl. 197—6)



6. In a typewriting machine, a cylindrical platen, a type bar holder disposed along said platen, individual type bars extending through and supported entirely by said holder for individual linear reciprocation endwise of themselves toward and from the platen, each type bar having on its end adjacent the platen a pair of spaced printing characters, which characters together form two rows running approximately parallel with the platen, means mounting said holder for movement to carry said rows of printing characters alternately into printing positions along said platen, and individual, key operated means free of any support of said bars and engageable with said type bars for urging the same individually toward and from the platen to print in both positions of said holder.

2,283,236
SULPHONATED DERIVATIVES OF POLYMERIZED METHYLSTYRENE
Frank J. Soday, Upper Darby, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania
No Drawing. Application June 23, 1939, Serial No. 280,726
18 Claims. (Cl. 260—505)

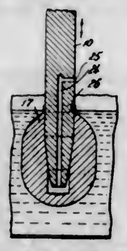
1. As a new product, a sulphonate of polymerized methyl styrene.

17. A process for the preparation of a sulphonated derivative of a polymer derived from an aromatic light oil which comprises separating a methyl styrene fraction from said light oil, subjecting said fraction to polymerizing conditions such that a polymer is formed, and reacting said polymer with a sulphonating agent to form a sulphonate of said polymer.

2,283,237
HALOGENATION OF SATURATED ALIPHATIC NITRILES
Le Roy U. Spence, Elkins Park, and Darrel J. Butterbaugh, Philadelphia, Pa., assignors to Röhm & Haas Company Philadelphia, Pa.
No Drawing. Application August 17, 1940, Serial No. 353,066
8 Claims. (Cl. 260—464)

1. The process of preparing halogenated saturated aliphatic nitriles which comprises passing a gaseous mixture containing the vapor of a saturated aliphatic nitrile and a member of the group consisting of chlorine and bromine through a reaction zone at a temperature of 250 to 550° C.

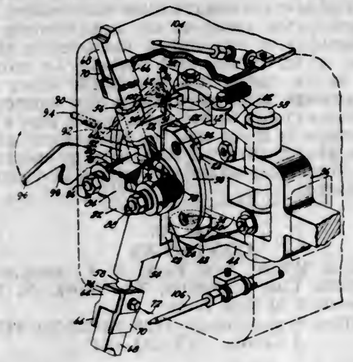
2,283,238
METHOD OF MANUFACTURING THIN RUBBER ARTICLES
Roy E. Thompson, Nyack, N. Y., assignor to Lorica Laboratories Inc., Jersey City, N. J., a corporation of New Jersey
Application April 9, 1940, Serial No. 328,667
6 Claims. (Cl. 18—58)



1. In the method of manufacturing elastic bags by the dipping process, the bag being formed of a bag proper and a band integrally attached thereto at its opening, and the opening being substantially smaller in cross-section than the interior of the bag when both are unextended, the steps which comprise placing an elastic band about one end of the shaft, mounting a head having substantially the size and shape of the bag proper on said end of the shaft, bringing the head in final position on the shaft in contact with the nearest rim of the band, with the opposite end of the shaft extending upwardly dipping the head downwardly into a body of coating liquid up and onto the elastic band to form a thin coating over the head and onto and adhering to the band, and removing the resulting elastic bag with the elastic band integrally attached thereto from the head.

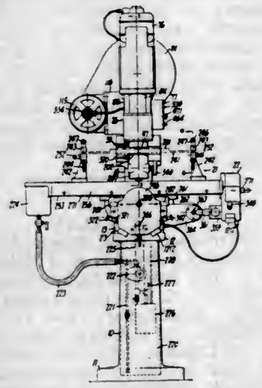
2,283,239
FINISHING MACHINE
Laurence E. Topham, Wenham, and Edwin W. Smith, Beverly, Mass., assignors to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application May 17, 1940, Serial No. 335,756
10 Claims. (Cl. 12—78)

1. In a finishing machine, an oscillating shaft, a tool holder having a plurality of tools rotatably mounted on said shaft, means for connecting the tool holder to the shaft to cause one of the tools to be secured in an operative position for oscillation with the shaft, means for heat-



ing the tool in operative position, means for rotating the tool holder in the interchange of tools, and means for stopping the rotation of the tool holder in a position where the tools are removed from the heating means.

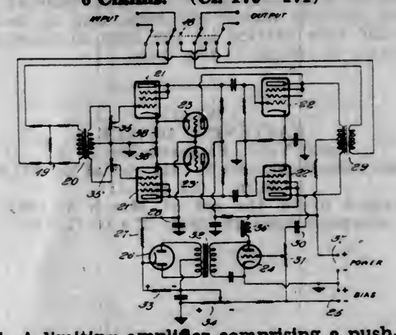
2,283,240
CONTOURING MACHINE AND METHOD
Dallas R. Trinkle, Oakland, Calif., assignor to Merco-Trinkle Machine Co., San Francisco, Calif., a corporation of California
Application August 25, 1939, Serial No. 291,872
83 Claims. (Cl. 90—13.5)



1. The method of end milling which comprises reciprocating and rotating the tool, with the reciprocations in definite timed relation to each other, and effecting relative predetermined incremental movement between the mill and the work while the end mill is out of engagement with the work.

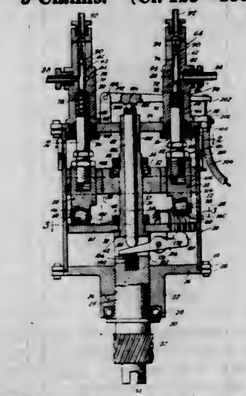
27. In a machine of the class described, a tracer, means mounting said tracer for movement in a plurality of directions, power-driven automatic means for effecting selective feeding movement of said tracer by predetermined increments of movement in said directions, and means for recording the successive increments of movement.

2,283,241
LIMITING AMPLIFIER
Charles C. Van Cott, Soleta, Calif., assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa
Application February 14, 1940, Serial No. 318,957
6 Claims. (Cl. 179—171)



1. A limiting amplifier comprising a push-pull electron tube amplifier having a separate cathode resistor in each portion thereof, a buffer push-pull amplifier coupled with the output of said electron tube amplifier, a separate inverse feedback circuit connected with each said cathode resistor and including a variable impedance electron discharge device having a control electrode, a primary rectifier connected with the output of said buffer amplifier, a secondary rectifier, a transformer for coupling said primary and secondary rectifiers and energized by current pulsations from said primary rectifier, a resistor in circuit with said secondary rectifier, and a circuit connected with both said control electrodes including said resistor and a source of bias potential connected in series, with the potential drop in said resistor in opposite polarity with respect to the voltage of said source, for varying the impedance of each said electron discharge device in accordance with the amplitude of the signal voltage above a predetermined level, for simultaneously regulating the feedback energy supplied to both portions of said push-pull amplifier through said impedances.

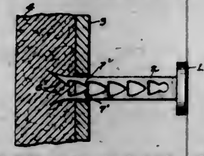
2,283,242
INJECTION FUEL SYSTEM
Petrus J. van der Walt, Memel, Orange Free State, Union of South Africa
Application July 25, 1939, Serial No. 286,481
5 Claims. (Cl. 123—139)



1. An injection fuel pump for internal com-

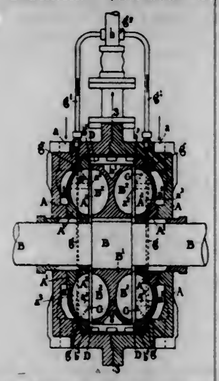
bustion engines, comprising a support, a drive shaft mounted in the support, a race fixed to said shaft, downwardly spring pressed plungers for injecting fuel into a cylinder of the engine, a cam carried by the race and having an angular plunger engaging face, means for adjusting said cams so that the entire angular face at all times remains above the race, and a second angular face carried by the cam to allow the plungers to return to the race.

2,283,243
FASTENING DEVICE
Oscar Vatet, Pleasantville, N. Y.
Application November 3, 1941, Serial No. 417,630
1 Claim. (Cl. 85—31)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)
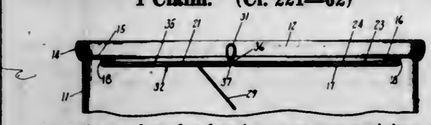


A fastening device adapted to be driven having a head and shank, the latter having a plurality of points tapered downwardly and outwardly from the axis of the shank and adapted to diverge as the fastening device is driven and a series of perforations through the shank spaced so as to leave frangible portions of said shank between said perforations, whereby said frangible portions prevent buckling of the unembedded portion of said shank and are broken by tension developed by the tapered points said tapered points bending the several severed sections of said shank outwardly during the driving operation.

2,283,244
MEANS FOR THE EXTRACTION OF AIR FROM THE CIRCULATING WATER OF HYDRAULIC BRAKES OR DYNAMOMETERS
George Henry Walker, Worcester, England, assignor to Heenan & Froude Limited, Worcester, England
Application October 18, 1939, Serial No. 300,092
In France August 18, 1939
1 Claim. (Cl. 265—24)



A hydraulic dynamometer comprising the combination with a rotating element, a non-rotating element reacting therewith, a casing to which the non-rotating element is affixed, an arm affixed to said casing, weighing apparatus controlled by said arm, a water inlet pipe, a water outlet pipe and sluice gates controlling the supply of water to the apparatus, of vanes in the rotating element dividing it into a number of pockets, vanes in the non-rotating element dividing it into a number of pockets always filled with water, passageways in the vanes of the non-rotating element opening at one end of the centres of the vortices set up in the said pockets, an annular groove in the casing into which the other ends of the passage ways open and a pipe connecting the annular groove to the water outlet pipe where the pressure is lower than at the centres of the vortices whereby any air suspended or entrapped in the circulating water will escape and erosion is prevented.

2,283,245
CONTAINER
Richard J. White, New York, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application September 28, 1939, Serial No. 296,982
1 Claim. (Cl. 221—62)



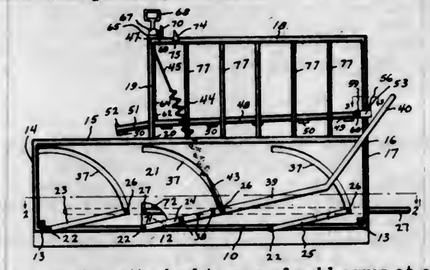
A rectangular dredge top can comprising a top and having a depressed panel provided with a dispensing area and an outward protuberance spaced therefrom, a perforated slide member movably confined in close sliding contact with said panel and movable in opposite directions thereon relative to said area, said slide having an integral upstanding looped finger engaging element thereon and a consequent curved depression on its panel engaging surface directly beneath said finger element, movement of said slide member in one direction relative to the panel covering said dispensing area and in the opposite direction exposing said area, said slide when in an intermediate position aligning its perforations with said dispensing area for a sifting of the can contents, at which time said panel protuberance releasably engages said slide depression to yieldably maintain the slide in sifting position.

2,283,246
CAST VALVE
Edmund Merriman Wise, Westfield, and Raymond Herman Schaefer, Red Bank, N. J., assignors to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application June 17, 1940, Serial No. 340,988. In Canada March 29, 1940
5 Claims. (Cl. 75—170)

5. As a new article of manufacture, an unworked casting made of a nickel base alloy containing about 10% to 48% copper, over 0.5% to about 5% silicon, about 0.04% to 0.6% carbon, zirconium from an effective amount to about 1%, metal selected from the group consisting of manganese and iron in an amount not exceeding about 5% of each effective to impart good casting properties to the alloy, and the balance nickel.

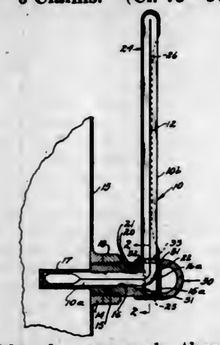
2,283,247
HOG RESTRAINING DEVICE
Alvin A. Fosterman, Utica, S. Dak., and Louis O. Marshall, Verdigree, Nebr.
Application November 2, 1940, Serial No. 363,988
5 Claims. (Cl. 119—98)

1. A hog restraining device comprising an animal receiving framework, an upper restraining member attached to the framework, a plurality of spaced arms pivotally attached to the framework, a raisable platform pivotally attached to the other ends of said arms, means for raising said arms to raise the platform, including an extended lever attached to said raisable platform and pivotally attached to the framework,



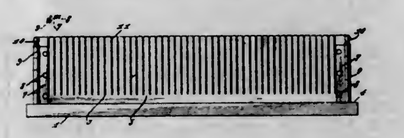
and a spring attached to one of said arms at one end and to an upper portion of the framework at the other end to assist in raising said platform as said extended lever is raised, said upper restraining member including a downwardly inclined forward portion to provide a relatively constricted opening, pivotal movement of said arms causing said platform to swing forwardly toward said constricted opening.

2,283,248
THERMOMETER HOLDER
Arthur Frese, Santa Monica, Calif., assignor to Adolph Frese Corporation, Los Angeles, Calif., a corporation of California
Application May 6, 1940, Serial No. 333,607
6 Claims. (Cl. 73—375)



4. A holder for an angle thermometer, comprising a body adapted to be mounted in a wall of a chamber and having a portion extending outwardly from said chamber and terminating in an outer end, said body having a central bore opening through its said outer end and adapted to receive one leg of the thermometer, a lateral bore opening through a side of said body near its said outer end and communicating with said central bore, said lateral bore being adapted to receive the other leg of said thermometer with clearance, a notch in the outer end portion of said body connecting the opening of said central bore in the outer end of said body with said lateral bore, said notch being adapted to pass the second mentioned thermometer leg when the first mentioned thermometer leg is inserted in the central body bore, a protecting tube adapted to surround said second mentioned thermometer leg and having an end portion slidably receivable within said lateral bore and extending across said central bore, said end portion of said tube having a notch adapted to pass said first mentioned leg of said thermometer, and a cap slidably fitted on the outer end portion of said body and engageable with said tube, said cap and tube having interengaging locking formations adapted to secure the tube against movement with reference to the body.

2,283,249
MOLDING AND CUTTING DEVICE
Alan Gibson, Mineola, N. Y.
Application July 15, 1940, Serial No. 345,673
1 Claim. (Cl. 146—150)



A ground meat molding and cutting device comprising a base of elongated rectangular formation, a body including a bottom wall member of less area than that of the base and fixed thereto by screws having their heads countersunk in the bottom of the base, said wall member being arranged on the top of the base for the latter to provide a marginal flange about said wall member, a frame including side and end walls, hinges including leaves secured to the outer faces of the side and end walls at the ends thereof, barrels formed on the leaves and engaging the outer corners of the frame along the height thereof, removable headed hinge pins disposed through the registering barrels of companion leaves for detachably connecting the frame walls to each other to rest upon the flange for disposal about and in engagement with said wall member for cooperation therewith to provide a mold for receiving material therein to be sliced, said side walls having vertically arranged slots disposed in equi-distantly spaced relation with respect to each other, the slots of one side wall being disposed in registration with those of the other and extending through the tops of their walls with their lower ends terminating for disposal below the upper face of said wall member, cutting means including a saw blade for passage through the slots for cutting the contents of the mold into slices, and filler strips of different thicknesses and adapted to be disposed within the bottom of the mold to vary the quantity of the contents thereof for varying the size of the slices.

2,283,250
MANUFACTURE OF REFRACTORY MATERIALS
Victor Moritz Goldschmidt, Holmenkollen, near Oslo, and Kristoffer Johannes Stenvik, Oslo, Norway
No Drawing. Application May 13, 1937, Serial No. 142,492. In Austria May 18, 1936
16 Claims. (Cl. 106—59)

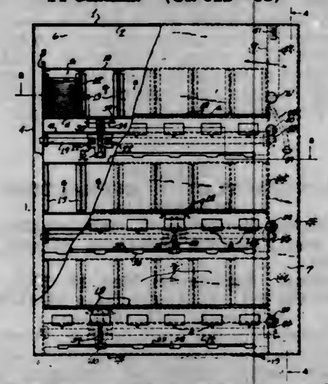
1. A process for the manufacture of refractory products essentially comprising magnesium orthosilicate, which comprises admixing with a batch containing such magnesium orthosilicate 1% to 10% of at least one metal as a bonding material in a finely subdivided state and capable of forming an oxygen compound coalescing with said refractory upon burning of the refractory and then preparing shapes from said mixture.

2,283,251
APPARATUS FOR USE IN THE CUTTING OF LAMINATED SAFETY GLASS
Leon F. Gunther, Piqua, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application August 15, 1939, Serial No. 290,269
4 Claims. (Cl. 219—19)



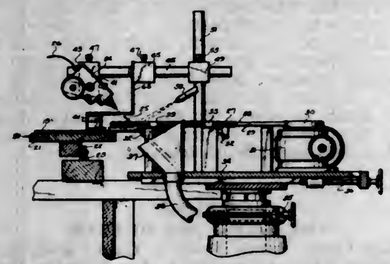
1. In apparatus for use in the cutting of sheets of laminated safety glass including two sheets of glass and an interposed layer of plastic material bonded together to form a composite structure, a table including top and bottom members associated with one another to form a closed heating compartment within which the entire sheet of safety glass is positioned after the glass sheets have been scored and cracked along the score lines, and electric heating units carried by said top and bottom members for effecting the desired heating of the safety glass within said closed compartment, each unit comprising a pair of substantially parallel coils extending longitudinally of the table and a zigzag coil also extending longitudinally of said table between said parallel coils, the parallel coils carried by the top member being disposed out of alignment with the parallel coils carried by the bottom member and the zigzag coils carried by said top and bottom members extending in crisscross fashion when the said top member is closed whereby to effect heating of the safety glass substantially uniformly throughout its entire area.

2,283,252
COIN-OPERATED VENDING MACHINE AND CONTROL MECHANISM THEREFOR
William Hartman, Milton W. Greenwald, and Charles F. Carroll, St. Louis, Mo.; said Carroll assignor to said Hartman and said Greenwald
Application October 3, 1938, Serial No. 232,988
14 Claims. (Cl. 312—65)



1. A vending machine comprising a housing having a front face, a plurality of merchandise compartments arranged within said housing in a plurality of horizontal vertically spaced tiers, said housing face being provided with a plurality of horizontal rows of slot-like apertures, one of said apertures being positioned in front of the lower portion of each of said merchandise compartments, an ejector shiftably mounted beneath each tier of compartments for optional disposition beneath any selected compartment in such tier, manually operable means connected to each ejector for actuating such ejector and thereby projecting a merchandise unit from a selected one of said compartments through the face aperture associated therewith, and means connecting the several ejector-actuating means so that only one such ejector may be operated at one time.

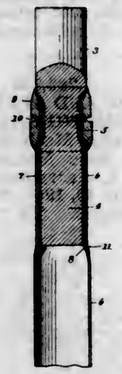
2,283,253
APPARATUS FOR PRODUCING MULTIPLY GLASS SHEET GLAZING UNITS
Charles D. Haven, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application September 7, 1939, Serial No. 293,793
6 Claims. (Cl. 91—12.2)



1. In apparatus for metallizing the marginal edge portions of glass sheets, means for supporting the sheets to be metallized in a substantially horizontal position, metallizing means mounted above the sheet supporting means for applying a metal spray to the marginal portions of the glass sheets, means for causing relative horizontal movement between the glass sheets and metallizing means, a guard member positioned between the sheet supporting means and metallizing means and having a portion thereof disposed inwardly of the outer edges of the glass sheets for controlling the width of the metallic coatings applied thereto, and means for setting up a moving pressure area of compressed gas beneath the guard member inwardly of and directed toward the sheet edges for preventing back spray beneath said guard member and the formation of metal mist upon the glass inwardly of the metallic coatings.

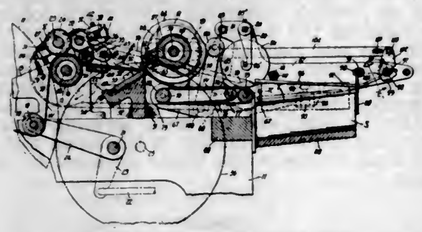
2,283,254
WELL TOOL
Colonel C. Heeter, Butler, Pa., assignor to C. M. Heeter, Sons & Co., Inc., a corporation of Pennsylvania
Application February 28, 1941, Serial No. 380,985
1 Claim. (Cl. 287—109)

A well tool comprising a stem having an end portion of reduced diameter, said reduced end portion having an annular recess at the upper end thereof, a socket extending below the reduced end portion of the stem and having an upper end portion of reduced diameter to snugly fit the reduced end portion of the stem, including the annular recess therein, throughout the length thereof, a sleeve closely fitting over the reduced upper end portion of the socket throughout the length thereof, and a collar fitting closely over that portion of the sleeve within said recess, the stem, socket, sleeve and collar being welded together at the upper end of the reduced end of



the stem and the sleeve being welded to the socket at the other end of the sleeve.

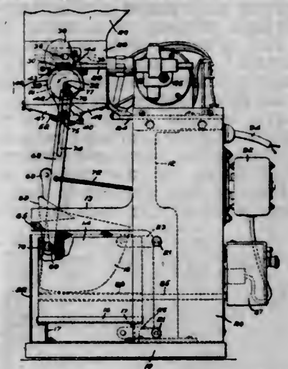
2,283,255
DEVICE FOR CUTTING AND STACKING THIN SHEET MATERIAL
Ray F. Holtz, Mount Lebanon, Pa., assignor to The Lithograph Press Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application August 1, 1940, Serial No. 349,188
21 Claims. (Cl. 164—68)



1. In a device for severing a thin web into a plurality of sheets, the combination of web severing means, a substantially flat plate having one of its ends disposed near the severing means, means for feeding the web along the plate in the direction of the severing means, and means for directing a blast of air against the surface of the web as it advances along the plate, the air blast being directed at such an angle to the plate as to assist in the advancement of the web toward the severing means.

2,283,256
COOKING MACHINE
Harry M. Husk, Newburyport, Mass., assignor to Electricooker, Inc., Newburyport, Mass., a corporation of Massachusetts
Application May 18, 1939, Serial No. 274,391
8 Claims. (Cl. 53—7)

1. In a cooking machine, a base, two uprights thereon, a container for a cooking liquid, a foraminous basket, a pair of pivot elements carried by the uprights at opposite sides of the basket and in position to support the basket for pivotal movement to and from a cooking position within and dumping position without the container, and means mounting one of said elements for convenient retraction whereby to render the basket readily removable from the machine.



2,283,257
WALL INSULATION
Matthew A. Jorsch, Detroit, Mich.
Application February 20, 1939, Serial No. 257,433
6 Claims. (Cl. 20—4)

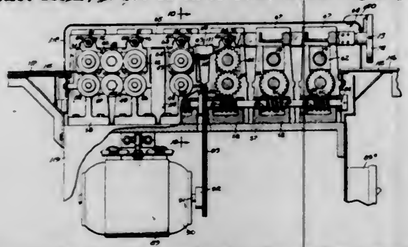


1. In a wall insulation, the combination with spaced upright studs and inner and outer coverings for the studs, a fiber board spacer element secured to one of the coverings between the studs and elongated approximately vertically and bent to form an air passage within and extending the full length of the element, a sheet of cellular fiber board extending between the studs and engaging said spacer element, fastening means connecting said sheet to each of the studs, and a packing of loose insulating material between said studs and held by said sheet in a desired spaced relation to the covering carrying said spacer.

2,283,258
METHOD OF AND MEANS FOR PRODUCING SHEET METAL JOINT LOCKS AND THE LIKE
John Jensen, Rockford, Ill., assignor to Whitney Metal Tool Company, Rockford, Ill., a corporation of Illinois
Application October 3, 1938, Serial No. 233,917
15 Claims. (Cl. 153—28)

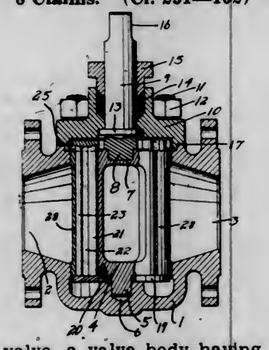
1. A machine for making a sheet metal joint lock comprising, in combination, an initial pair

of horizontal-axis feeding and forming rolls for simultaneously offsetting a substantially longitudinal marginal portion of a metal sheet and creasing and bending such portion along two spaced parallel longitudinal lines to produce three angularly related longitudinal sections consisting of an inner section, an outer section, and a connecting section; a plurality of additional pairs or horizontal-axis forming rolls for accentuating the angles between said sections and for progressively tilting the intermediate section toward the inner section whereby to form base and socket folds; a set of idler rolls including a pair



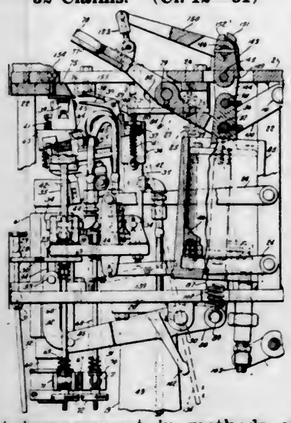
of opposed tapered surface rolls and a complementary wedge-tapered blunt edge roll adapted to enter said socket fold for gapingly forcing the socket fold sections apart and pressing the same against said tapered surface rolls, thereby flattening said intermediate section against said inner section and rounding the bend between said outer and intermediate sections to assure an open mouth between the latter sections; and a pair of horizontal-axis finishing rolls located to act upon said sections after the latter leave said idler rolls for bringing all of said sections into substantially parallel relation.

2,283,259
VALVE
Charles F. Johnson, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application September 9, 1940, Serial No. 355,940
8 Claims. (Cl. 251—102)



1. In a valve, a valve body having fluid flow openings and a valve chamber transversely thereof, a carrier rotatably mounted in said chamber, a closure member on said carrier adapted to close one of said openings, toggle link means connecting said closure member to said carrier, means for rotating said carrier and closure member to and from closed position and operative in opening said valve to initially swing said toggle with respect to said carrier and draw said closure member away from its seat and then to rotate said carrier and said closure member as a unit to open position, and means on said toggle link means for holding said closure member out of seating engagement with the wall of said chamber when said member is not in position to register with said openings.

2,283,260
METHOD OF AND APPARATUS FOR MAKING SHOES
Bernhardt Jorgensen, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application July 30, 1940, Serial No. 348,513
32 Claims. (Cl. 12—51)



1. That improvement in methods of operating on partially fabricated shoes which consists in snipping the margins of the upper and the lining at both sides of the forepart near the tipline, unmasking the outer surface of the toe margin of the lining by flaring the corresponding margin of the upper throughout the range bounded by the snips, and thereafter severing a strip from the unmasked margin of the lining with a cut that intersects the edges produced by the snips.

2,283,261
YELLOW AZO DYESTUFFS
Otto Kaiser, Basel, Switzerland, assignor to the firm of Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application July 12, 1940, Serial No. 345,239. In Switzerland July 12, 1939
6 Claims. (Cl. 260—153)

1. The sulfonic acids of the yellow azo dyestuffs of the general formula

$$K\left(\begin{matrix}N-R\\ |\\ x\end{matrix}\right)_n$$

wherein K stands for the radical of a heterocyclic six-membered system, whose heterocyclic six-membered ring consists of carbon and nitrogen atoms, of which at least three and not more than four are carbon atoms and at least two and not more than three are nitrogen atoms, not more than two nitrogen atoms being linked with each other, which heterocyclic six-membered ring contains at least twice and not more than three times the atom grouping

$$-\begin{matrix}C=N-\\ |\end{matrix}$$

with which the

$$-\begin{matrix}N-R-\text{groups}\\ |\\ x\end{matrix}$$

are connected by a valence of the carbon atom,

wherein further n stands for a whole figure which is not less than 2 and not greater than 3, wherein at least two of the

$$-\begin{matrix}N-R\text{ groups}\\ |\\ x\end{matrix}$$

stand for radicals of yellow aminoazo compounds, of which (*a*) at least one contains at least once a member of the group consisting of

$$-\begin{matrix}C-NH\\ \|\\ O\end{matrix}\text{ and }-O-CH_2-\begin{matrix}C-NH-\\ \|\\ O\end{matrix}$$

and at the most two azo groups, (*b*) at least one contains COOH— and OH—groups in the ortho position to each other in a benzene nucleus, and in which yellow aminoazo compounds (*c*) both the aryl radicals linked with two azo groups and those linked with one azo group and one group selected from the groups consisting of

$$-\begin{matrix}C-NH-\\ \|\\ O\end{matrix}\text{ and }-O-CH_2-\begin{matrix}C-NH-\text{groups}\\ \|\\ O\end{matrix}$$

as well as the aryl radicals linked with the amino group of the aminoazo compound, belong to the benzene series, and wherein, at the most, one radical

$$-\begin{matrix}N-R-\\ |\\ x\end{matrix}$$

stands for the radical of an amino compound by the presence of which the color of the remaining portion of the molecule is not disturbed, and wherein x stands for hydrogen when

$$-\begin{matrix}N-R-\\ |\\ x\end{matrix}$$

is the radical of a yellow amino dyestuff and for a member of the group selected from hydrogen and alkyl if

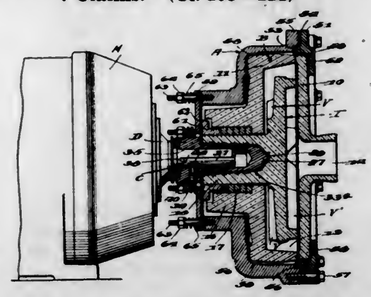
$$-\begin{matrix}N-R-\\ |\\ x\end{matrix}$$

represents the radical of a colorless amino compound, which dyestuffs form yellow to brown powders, which dissolve in water in the form of their alkali salts to give yellow solutions and which dye cotton in yellow shades which become faster on the fibre on being after-coppered.

2,283,262
DIAGNOSTIC COMPOSITION AND METHOD
Jonas Kamlet, Brooklyn, N. Y., assignor to Miles Laboratories, Inc., Elkhart, Ind., a corporation of Indiana
No Drawing. Application October 2, 1940, Serial No. 359,345
6 Claims. (Cl. 23—230)

1. Diagnostic compositions comprising a dry mixture containing essentially a member of the group consisting of the alkali metal- and alkali-earth metal-bisulfite addition products of salicylaldehyde and a member of the group consisting of the alkali metal- and alkali-earth metal oxides and hydroxides, the proportions of the two materials being such that the second member is present in excess of the amount necessary to react with the first member in water to liberate salicylaldehyde and form a normal sulfite salt, and in excess to provide an alkaline solution containing said liberated salicylaldehyde upon addition of the composition to a liquid to be tested for a content of acetone and acetoacetic acid.

2,283,263
PUMP
Willard A. Kates, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Application December 21, 1939, Serial No. 310,432
7 Claims. (Cl. 103—114)



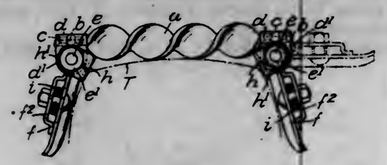
1. In a glass pump structure, a pump chamber formed of a plurality of separable glass sections and including a generally cylindrical circumferential wall, a protective, supporting metal housing for said chamber substantially enclosing said chamber, means to assemble said housing about said pump chamber and by such assemblage, hold said chamber sections in assembled relation, highly resilient means associated with said chamber and housing effective to insure distributed loading of the pressure of said housing on said chamber, said housing and chamber parts being provided with contact surfaces of restricted area extending about the periphery of the chamber and in substantial axial alignment with the circumferential wall thereof.

3. In a glass pump structure, a pump chamber formed of a plurality of separable glass sections having abutting ground glass surfaces in axial alignment with the circumferential wall of said chamber, a protective metal housing substantially enclosing said chamber and adapted to support and hold together said glass sections, said housing being designed to bear on only those portions of the chamber adjacent its periphery which are substantially in axial alignment with the ground glass abutting surfaces and the circumferential wall of said chamber while being spaced from said chamber throughout the remainder of its surface, and highly resilient non-metallic means associated with said chamber and housing and located about the periphery thereof to insure distributed application of pressure by said housing on said chamber about its periphery to hold said glass sections tightly together.

2,283,264
NONSKID DEVICE
Donald Stuart Kennedy, Longparish, Andover, England
Application January 25, 1941, Serial No. 376,002
In Great Britain January 24, 1940
5 Claims. (Cl. 152—225)

1. A non-skid shoe for an overall chain and of the kind comprising a transverse tread portion with side flaps and hinge pins connecting said flaps to the ends of said tread portion, said flaps having limited inwards movement, in which the said tread portion is formed as a metal bar having a plurality of twists in its length and flat tab pieces at its ends, said tab pieces being aligned with one another, inverted channel section pieces to the middle members of which the said tab pieces are secured being apertured in

their walls to receive said hinge-pins, and the middle member of each channel section piece



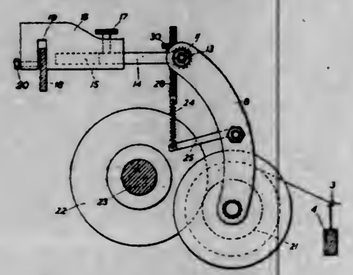
being parallel to the axis of the respective hinge pin.

2,283,265

YARN WINDING MACHINERY

William Harry Kimpton, Spondon, near Derby, England, assignor to Celanese Corporation of America, a corporation of Delaware

Application October 3, 1939, Serial No. 297,653
In Great Britain October 11, 1938
10 Claims. (Cl. 242—45)



1. A yarn winding device comprising two contacting friction elements adapted to provide a slipping frictional drive for a yarn package, a support for said yarn package secured to one of said frictional elements, said support being adapted to carry the total weight of said package and the parts of the device associated therewith, and to communicate, as a pressure between said friction elements, a component of said total weight that is in linear relation thereto throughout the winding operation, and means for relieving said friction elements of the remaining component of said total weight, which is likewise in linear relation thereto, whereby the pressure between said friction elements enables them to provide for the yarn package the desired driving torque increasing with the increasing diameter of the package.

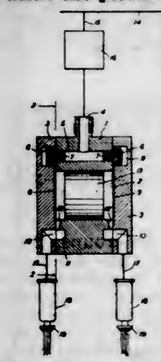
2,283,266

DISTRIBUTION OF FLUIDS

Edward Kinsella, Spondon, near Derby, England, assignor to Celanese Corporation of America, a corporation of Delaware

Application March 7, 1940, Serial No. 322,696
In Great Britain April 24, 1939
4 Claims. (Cl. 137—166)

1. Apparatus for the distribution of fluids comprising means for dividing a fluid flow along two paths, means in each of said paths adapted to offer a resistance to fluid flow, a cylinder having its ends communicating with said paths, a piston in the cylinder, and ports in the cylinder providing a continuation of said paths, said ports providing throttling means and being adapted to have their free area increased or decreased by the piston when the piston moves in response to



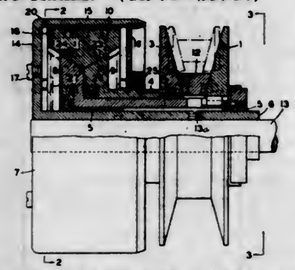
differences in the pressure drops through the resistances.

2,283,267

CLUTCH AND MECHANISM FOR EFFECTING AXIAL MOVEMENT OF A DRIVEN MEMBER

Everard F. Kohl, Cleveland, Ohio

Application November 22, 1939, Serial No. 305,626
26 Claims. (Cl. 74—230.17)



1. Apparatus of the class described, comprising a driving member including a housing containing a liquid, a pulley having mating parts, one of the mating parts of said pulley being adjustable toward and away from the other mating part, a driving shaft for the adjustable part of said pulley extending into said housing and provided with a clutch surface and means associated with said housing and operable by said liquid during the rotation of said housing for effecting a driving connection between the driving member and said clutch surface, said means and said clutch surface being so constructed and arranged that said means is effective in forcing the driving shaft carrying the adjustable part of said pulley axially toward its mating part in accordance with the speed of rotation of said housing.

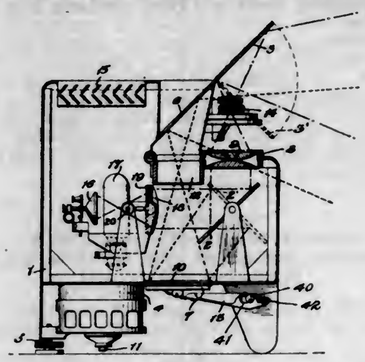
2,283,268

APPARATUS FOR PROJECTING IMAGES OF TRANSPARENT OR OPAQUE OBJECTS AND SCRIPT ON A SCREEN

Jacob Marcovich Kreinin, Moscow, Union of Soviet Socialist Republics

Application May 22, 1939, Serial No. 275,084. In the Union of Soviet Socialist Republics February 3, 1939
6 Claims. (Cl. 88—24)

1. An apparatus for projecting images of transparencies, opaque objects, pictures and the like on a screen comprising two lenses arranged side by side, mirror means angularly related to said lenses for reflecting images projected by said lenses onto a screen, a single lighting unit consisting of a lamp and a condenser, a second condenser arranged in front of one of said lenses, a



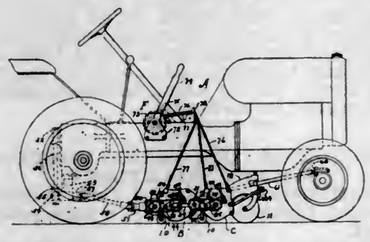
horizontal table disposed beneath the other lens for supporting opaque objects and pictures, and a second reflector movable into positions to reflect the light passing through the first condenser either upon the table or the second condenser.

2,283,269

POWER LAWN MOWER EQUIPMENT FOR DIRECT CONNECTION TO TRACTORS

William F. Krenzke, Racine, Wis., assignor to Jacobsen Manufacturing Company, Racine, Wis., a company of Wisconsin

Application November 25, 1940, Serial No. 366,998
10 Claims. (Cl. 56—7)



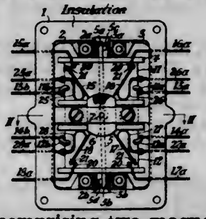
1. A device of the class described, comprising a tractor having front and rear guiding and driving wheels and a power take-off shaft, three lawn mower units arranged transversely under said tractor and between said guiding and driving wheels, two of said units being in spaced transverse alignment and the other unit being positioned in rear of said two units and adapted to cut the strip straddled by said two units, draw bars flexibly secured to the forward end of the tractor midway its width and diverging rearwardly and being flexibly connected to said two units, an operating connection from said power take-off shaft to said other unit and operating connections from said other unit to said two units, said two units at their inner rear corners having universal joint connections to the adjacent corners of said other unit, carrying rollers on the rear of each said units and carrying wheels secured to the front inner ends of said two units, the front inner ends of said two units being connected together by means of a rigid bar with hinges therebetween whereby said units are free to move over uneven ground.

2,283,270

ELECTRICAL RELAY

Robert M. Laurenson, Forest Hills, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application November 9, 1940, Serial No. 365,039
4 Claims. (Cl. 200—93)



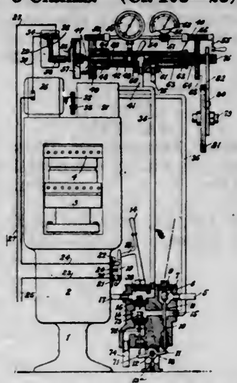
1. A relay comprising two magnetizable yokes provided with confronting pole faces, an armature pivotally supported intermediate its ends and having its ends disposed between said pole faces, means for constantly supplying flux to said yokes for polarizing said armature, means for limiting the movement of said armature toward one set of pole faces to a smaller air gap than its movement toward the other set, a winding surrounding said armature, and contacts operatively connected with said armature and biasing said armature to a position in which the resultant torque on said armature due to said contacts and to said permanent magnet when said winding is deenergized is always in the direction to move said armature toward said one set of pole faces.

2,283,271

FLUID PRESSURE CONTROL SYSTEM

Evarts G. Loomis, Newark, N. J.

Application December 13, 1940, Serial No. 369,937
8 Claims. (Cl. 103—25)



1. In a device of the character described, means for increasing the pressure of fluid in a hydraulically operated apparatus, a motor for operating said pressure-increasing means, an electric circuit connecting said motor with a source of current, a switch for controlling the electric circuit, said switch being normally closed, said switch including a housing, a piston mounted for movement in one direction in said housing under the pressure of fluid entering said housing from the pressure-increasing means, a spring in said housing for opposing movement of the piston under fluid pressure, the piston having a projecting portion extending out of the casing, said projecting portion carrying an adjustable switch-opening element which opens

the switch when the piston is moved under predetermined fluid pressure, a safety valve in said housing, spring means for normally holding said safety valve closed, and a single means for adjusting both the compression of the safety valve spring and that of the spring for opposing piston movement.

2,283,272
BLACKBOARD CONSTRUCTION
Clyde D. Lowry, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application June 29, 1939, Serial No. 281,863
6 Claims. (Cl. 35—63)



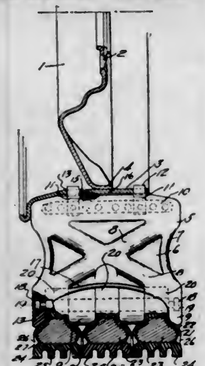
1. In a device of the character described, a horizontal metal member having a longitudinally extending channel therein circular in cross section, and bracket members each having a substantially cylindrical body portion slidably received within said channel and another portion adapted for supporting a roll map, cards or the like, said body portion being rotatable within said channel on a plane transversely to the said channel, the outer surface of said body portion being formed with two arcuate portions extending circumferentially thereof and disposed at opposite sides of the vertical center of the said body portion and being struck from different centers, the distance between two diametrically opposed points on said opposite arcuate surface portions being greater than the diameter of said channel whereby to cause a wedging of the said body portion within the said channel upon rotation thereof.

2,283,273
SANDAL
Richard C. Marcy, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application July 21, 1939, Serial No. 285,742
1 Claim. (Cl. 36—11.5)



In an open-shank strap sandal, a single sole having a deep inner marginal channel and an edge slit forming respectively a thick inner marginal flap and a thin outer marginal flap each at the tread side of the sole, said sole having in that portion of each lateral margin of its forepart which is above said edge slit a plurality of narrow slots extending lengthwise of the sole edge and disposed in spaced relation to one another, an upper comprising a plurality of spaced straps each having one end portion extending through one of the slots in one of said lateral marginal sole portions and having its opposite end extending through one of the slots in the other of said lateral marginal sole portions and all of said straps having their end faces abutting and covered by said outer flap, and a continuous line of stitching extending entirely around the sole and comprising stitches all of which extend from the base of said inner channel to the edge of the sole margin and have their inner portions concealed by said inner flap, some of said stitches extending through said straps and securing them to the sole and the remaining stitches being clear of said straps.

2,283,274
SAFETY TIRE
James V. Martin, Clintondale, N. Y.
Application October 20, 1938, Serial No. 236,103
14 Claims. (Cl. 152—7)



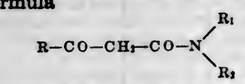
1. In combination with a vehicle wheel, a tire carrying the wheel loads through tension elastic spokes from the upper portion of a hoop tread and means, including the rubber of the outer spoke portion held in lateral tension, to lock the said tread and spokes together.

2,283,275
INSECTICIDAL COMPOSITION INCLUDING WALNUT SHELL FLOUR
Forrest M. McLane, Montebello, Calif., assignor to Stauffer Chemical Company, a corporation of Calif.
No Drawing. Application November 13, 1939, Serial No. 304,115
14 Claims. (Cl. 167—24)

1. An insecticidal composition comprising walnut shell flour of smaller particle size than 100 mesh screen impregnated with rotenone as an insecticidal toxicant, and a viscous non-volatile non-drying oily carrier for the rotenone present as a surface coating on the impregnated carrier.

2,283,276
PHOTOGRAPHIC COMPOSITION CONTAINING ARYLIDES OF N-HETEROCYCLIC ACYLACETIC ACIDS AND PROCESS OF DEVELOPING PHOTOGRAPHIC IMAGES THEREWITH
Edmund B. Middleton, Metuchen, and Andrew B. Jennings, New Brunswick, N. J., assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 25, 1939, Serial No. 252,818
12 Claims. (Cl. 95—6)

1. A photographic emulsion containing a light sensitive silver salt and a compound taken from the group consisting of the amides having the general formula

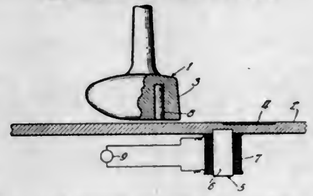


and esters having the general formula

$$R—CO—CH_2CO—OR_3$$

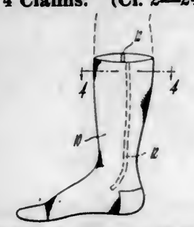
wherein R is an N-heterocyclic radical containing an unsaturated nucleus having one nitrogen atom and 5 carbon atoms in the hetero ring, one of said carbon atoms being attached to the carbonyl group, R_1 is a member of the group consisting of hydrogen and hydrocarbon radicals, R_2 is a member of the group consisting of aryl and azole radicals and R_3 is a hydrocarbon radical.

2,283,277
GOLF SWING INDICATOR
Arthur B. Modine, St. Petersburg, Fla.
Application December 30, 1939, Serial No. 311,953
13 Claims. (Cl. 273—35)



1. In a golf swing indicating device, the combination of a movable, manually operated club having a head at one end thereof, an electrical circuit, a portion of said circuit being positioned adjacent the normal path of said club head, means carried by said club head cooperable with said portion of the circuit for producing a response therein when said portion and means are operatively moved relative one another by said club, and further means connected in said circuit operable by such response.

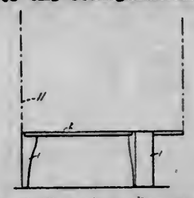
2,283,278
SOCK
Oliver C. Morse, Stoneham, Mass.
Application September 19, 1939, Serial No. 295,625
4 Claims. (Cl. 2—240)



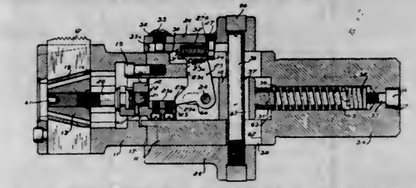
1. A knitted sock having therein a stiffening element comprising a narrow band of waterproof plastic material partly embedded in the inner face of the leg portion thereof and extending substantially in the direction of adjacent wales.

2,283,279
SUPPORT
Chalmer E. Murphy, Cleveland Heights, Ohio, assignor to Porcelain Steels, Inc., Cleveland, Ohio, a corporation of Ohio
Application April 24, 1940, Serial No. 331,359
3 Claims. (Cl. 248—150)

1. In a stand, a ring element of rectangular cross-section, a plurality of upright leg elements each having a foot portion at its lower end and having side walls and an upper wall, an aperture in the upper wall and notches in the side walls conforming to the configuration of corresponding portions of the ring element, the ring element being seated in the apertures, and the walls of the rectangular section ring element engaging the walls of the apertures to interlock the ring element to the leg elements to hold the leg elements in upright position.



2,283,280
COLLAPSIBLE TAP
Frederic Nell, Waynesboro, Pa., assignor to Landis Machine Company, Waynesboro, Pa., a corporation of Pennsylvania
Application April 3, 1940, Serial No. 327,731
19 Claims. (Cl. 10—95)

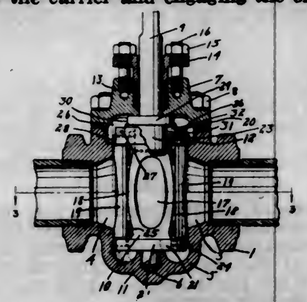


1. In a collapsible tap, a body; a plurality of tap chasers mounted for inward and outward movement on said body; a plunger longitudinally slidable within said body and operable to hold said chasers outwardly when it is disposed in a forward position; resilient means urging said plunger rearwardly; latch means for locking said plunger in said forward position; a control collar movable longitudinally of the body; means actuated by the collar for tripping said latch and allowing said resilient means to collapse said chasers, when said collar is moved in one direction; and means also actuated by the said collar for returning said plunger to said forward position against the action of said resilient means and restoring said latch to locked condition when said control collar is moved in the opposite direction, said collar having a yoke ring for moving it in either direction.

2,283,281
VALVE
Robert L. Ohls, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application June 12, 1941, Serial No. 397,698
2 Claims. (Cl. 251—102)

1. A valve comprising a valve body having a ported valve chamber, a carrier rotatably mounted in said chamber, a closure member mounted on said carrier for displacement by the carrier to port opening and closing positions in said chamber and retractible from the wall of the chamber, an actuating stem rotatably mounted coaxially of said carrier with a lost-motion connection between the stem and carrier, a rotary cam fixed

on the stem and having portions of different radial distances from the axis of the stem, a lever mounted on the end of the carrier adjacent the stem, said lever having one arm extending axially of the carrier and engaging the end of the



closure member adjacent the stem and a second arm in a position to be engaged by the cam and displaced thereby upon rotation of the stem and cam relative to the carrier to effect retraction of one end of the closure member.

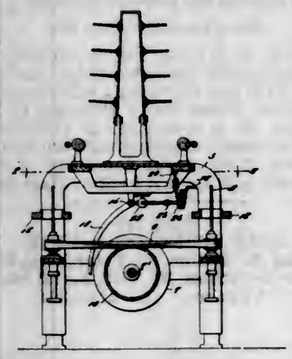
2,283,282
COKE OVEN DOOR CLEANING MEANS
Carl Otto, New York, N. Y., assignor to Fuel Refining Corporation, Dover, Del., a corporation of Delaware
Application September 4, 1940, Serial No. 355,288
3 Claims. (Cl. 15—236)



1. An element for removing deposits on the sealing edge parts of self-sealing coke oven doors, comprising a bifurcated scraping blade adapted to straddle a sealing edge part, and means for moving said scraping blade along said sealing edge comprising a bifurcated guiding part adapted to straddle said sealing edge part, and a force transmitting connection between said blade and guiding part which tends to hold them in the positions in which they are adapted to respectively straddle and extend transversely across aligned, longitudinally displaced, portions of said sealing edge part, and which is flexible in the direction of a plane transverse to said edge part to permit said blade and guiding part to straddle and extend transversely across portions of said sealing edge parts which are inclined at a substantial angle to one another.

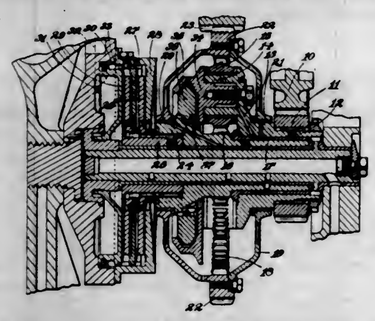
2,283,283
PNEUMATIC STOP MOTION FOR SPINNING AND TWISTING MACHINES
Herman T. Overbey, Wadesboro, N. C., assignor of forty-five per cent to J. F. Martin and ten per cent to H. P. Taylor, both of Wadesboro, N. C.
Application May 29, 1941, Serial No. 395,870
3 Claims. (Cl. 57—79)

1. In combination, a textile machine including a ring rail having predetermined movement during operation of the machine, drive means for the machine, an automatic full bobbin stop motion mechanism for the drive means and including pneumatic means for actuating the stop motion mechanism to render the machine inactive, a valve for said pneumatic means dis-



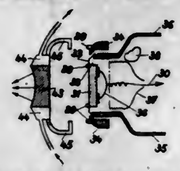
posed in the path of movement of the ring rail for actuation thereby, an adjustable bracket for the valve attaching the latter to a stationary part of the machine, and an operating lever for the valve pivotally mounted on the bracket, said lever having a free end engageable by the ring rail.

2,283,284
CHANGE-SPEED GEARING
Frank Morgan Owner, Bristol, England, assignor to The Bristol Aeroplane Company Limited, Bristol, England, a British company
Application December 5, 1940, Serial No. 368,729
In Great Britain November 14, 1939
5 Claims. (Cl. 74—260)



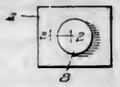
1. In an epicyclic change-speed gear, a shaft, a sun gear rotatably mounted on said shaft, a planet carrier rotatably mounted on said shaft, planet wheels mounted for rotation on the planet carrier and engaging said sun gear, a centrifugal clutch mechanism to operatively connect and disconnect the sun gear and planet carrier and operated by rotation of the sun gear to interlock the said sun gear and planet carrier, releasable means to lock the sun gear to the shaft, a ring gear rotatably mounted on said shaft and having internal and external teeth, said internal teeth being in engagement with the planet gears, a pinion engaging the external teeth on said ring gear, and means to rotate said planet carrier.

2,283,285
MASSAGE
Reimar Pohlman, Berlin, Germany
Application May 25, 1939, Serial No. 275,763
In Germany May 25, 1938
2 Claims. (Cl. 128—24)



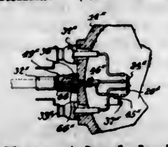
2. A massage apparatus comprising a housing, a diaphragm closing an aperture in the front of said housing, means disposed within said housing to impart to said diaphragm vibrations of supersonic frequency and a block of vibration-transmitting material in lens form disposed in front of said diaphragm to transfer the vibrations from the diaphragm to the body being massaged.

2,283,286
METHOD OF MAKING PHONOGRAPH BLANKS
Frank L. Porth, Chicago, Ill., assignor to Colorgraphic Process Corporation, a corporation of Illinois
Application February 3, 1941, Serial No. 377,201
2 Claims. (Cl. 18—48.3)



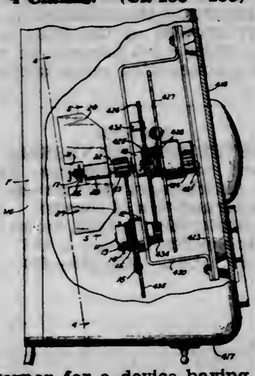
1. The method of making a phonograph record blank which consists in laying on a body member of sheet material a stencil sheet containing an unobstructed hole at least as large as the desired playing area of the blank to be made, depositing on the stencil sheet a mass of thick viscous lacquer, and moving a scraper over the surface of the stencil sheet and across said hole from behind said mass of lacquer to cause the lacquer to enter and fill said hole and be smoothed off approximately flush with the upper face of the stencil sheet.

2,283,287
ELECTRIC LAMP AND TERMINAL DEVICE
Towson Price, Glen Ridge, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 11, 1940, Serial No. 360,735
18 Claims. (Cl. 176—34)



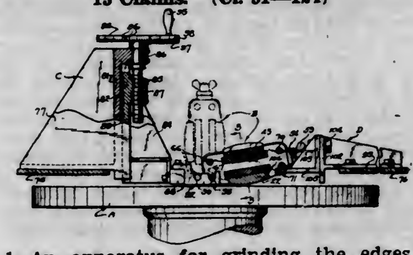
18. A duplex filament lead device for an electric lamp comprising a metal tube, a lead-in conductor extending through said tube, means insulating said conductor from said tube, and means sealing said tube vacuum-tight, comprising a bead of glass in which the inner end of said tube is embedded and through which the insulated conductor passes, and another conductor electrically connected to said tube and passing through the same bead.

2,283,288
GOVERNOR
David C. Rockola, Chicago, Ill., assignor to Rock-Ola Manufacturing Corporation, Chicago, Ill., a corporation of Delaware
Application July 17, 1941, Serial No. 402,799
4 Claims. (Cl. 188—183)



1. A governor for a device having a rotatable member, comprising a pinion rotatable with said member, a gear mounted for rotation by said pinion in one direction and freely rotatable relative thereto in the other direction, a second pinion in mesh with said gear and having an elongated hub, and a rubber fan element having a hollow hub portion formed integrally therewith for resiliently engaging the outer surface of said elongated hub.

2,283,289
GRINDING APPARATUS
George R. Boesch and Gerald White, Toledo, Ohio, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application August 12, 1941, Serial No. 406,487
13 Claims. (Cl. 51—124)



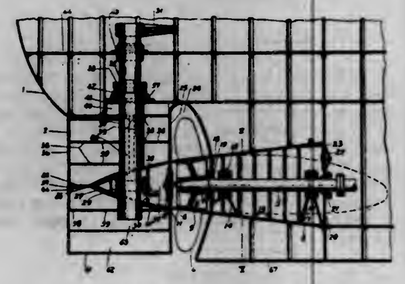
1. An apparatus for grinding the edges of plates of glass or the like having straight portions and rounded corners, comprising a horizontal grinding wheel rotatable about a substantially vertical axis, a work-holder for the plates mounted above said grinding wheel, and means for rockably supporting said work-holder so that it can be maintained in a vertical position to grind the straight portions of the edges of the plates and also rocked horizontally first in one direction and then the other to effect the grinding of the corners of said plates.

2,283,290
PROCESS FOR TREATING CITRUS FRUITS
Bailie N. Savage, Seattle, Wash.
No Drawing. Application August 1, 1940, Serial No. 349,290
8 Claims. (Cl. 99—103)

7. A method of heating the peel of citrus fruit

to remove pungent oil and other related matter from the peel and to remove the outer surface portion of the peel with the accumulated foreign matter thereon prior to obtaining the juice from the fruit, comprising the steps of subjecting the fruit to a heat of not less han 500° F. to blister and char the outer surface portion of the fruit and then subjecting the blistered and charred outer surface portion of the fruit to a rotary water spray under such pressure to remove the altered and disintegrated outer surface portion of the peel.

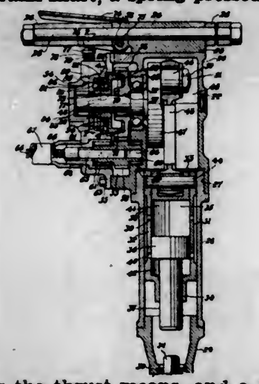
2,283,291
AFTERBODY OF VESSELS
Folke Herbert Seldén, Langedrag, Sweden, assignor to Aktiebolaget Götaverken, Goteborg, Sweden, a corporation of Sweden
Application September 28, 1938, Serial No. 232,044
In Sweden October 2, 1937
3 Claims. (Cl. 114—65)



3. In an after-body construction of a vessel, a propeller shaft, a propeller screw secured on the after part of said shaft, a hub therefor having an average hub diameter of more than one fourth of the blade diameter of said screw, a sheet metal sleeve secured to the hull of the vessel and enclosing a portion of the propeller shaft forward of the screw and shaped substantially in the form of a truncated cone tapered toward the stern of the vessel to conform with said hub, an after end wall in said sleeve, bearing means supporting said shaft in the after end of said sleeve immediately forward of said end wall, and means independent of said bearing means carried by said wall for sealing said wall water tight with respect to said shaft whereby access to said bearing means may be readily attained at all times.

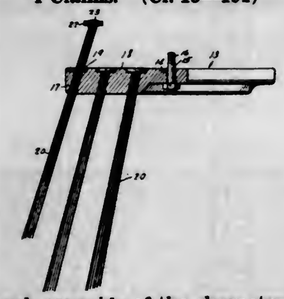
2,283,292
PERCUSSIVE TOOL
William A. Smith, Sr., Athens, Pa., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application March 20, 1941, Serial No. 384,256
2 Claims. (Cl. 125—33)

1. A percussive tool, comprising a casing having a handle, a reciprocatory percussive element in the casing, a crank shaft in the casing, means for transmitting movement from the crank shaft to the percussive element, a gear freely rotatable on the crank shaft, a pinion for driving the gear, a conical surface on the gear, means slidably interlocked with the crank shaft to frictionally engage the conical surface for connecting the gear to the crank shaft, thrust means for moving the last mentioned means into engagement with the conical surface, a bearing in the thrust means for the crank shaft, a spring pressed plunger for



actuating the thrust means, and a lever on the handle for actuating the plunger.

2,283,293
BRUSH ASSEMBLY
Herman A. Steiert, New Centerville, Pa.
Application November 14, 1939, Serial No. 304,298
4 Claims. (Cl. 15—191)



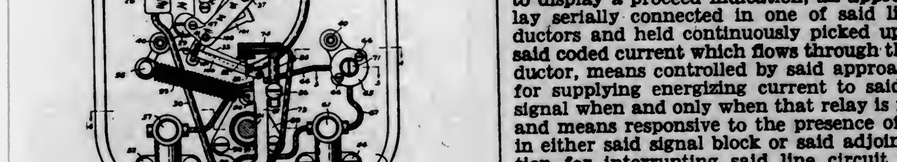
1. A brush assembly of the character described comprising a brush head consisting of a main body part and a bristle carrying part having meeting faces clamped together, means for holding said parts together, said bristle carrying part being formed with an aperture inclined to a normal to said meeting face and terminating on said meeting face in a countersink having a bottom wall parallel to said meeting face, and a bristle unit comprising a plurality of juxtaposed metallic bristles, a flat metallic washer-like head surrounding said bristles at one end and tilted with respect to said bristles at an angle corresponding to the angle of inclination of said aperture to said faces, and a fused metal joint between said bristles and said head, said head being received in said countersink, and portions of said bristles adjacent said head arranged in said aperture at its angle of inclination.

2,283,294
AZO DYESTUFFS AND PROCESS OF PREPARING SAME
Fritz Straub, Kaiser-Augst, near Basel, Peter Pieth and Walter Anderau, Basel, and Walter Hanhart, Riehen, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application August 8, 1939, Serial No. 289,038. In Switzerland August 16, 1938
17 Claims. (Cl. 260—143)

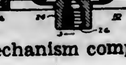
1. Azo-dyestuffs built up from components selected from the group consisting of components of the benzene, naphthalene, triazine, dehydrothiotoluidine and carbazole series containing at least 3 azo-groups and at least one radical of a binuclear compound having the grouping

typical for 8-hydroxyquinoline.

9. The azo-dyestuffs of the general formula



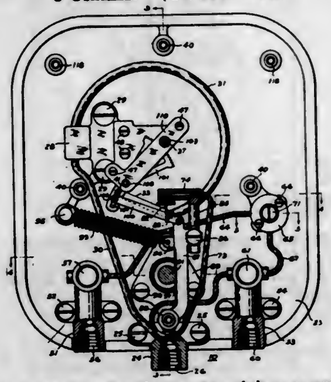
wherein x stands for a member of the group consisting of —N=N— and



2,283,295
PROCESS OF PURIFYING GLASS SANDS
Francis X. Tartaron and James B. Duke, Mulberry, Fla., assignors to Phosphate Recovery Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application July 11, 1941, Serial No. 401,976
1 Claim. (Cl. 209—166)

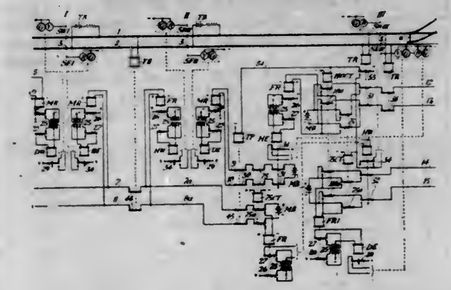
The process of separating the iron impurities from the silica of glass sands which consists of conditioning a thick aqueous pulp of such sands with cooperating agents consisting of a substantially insoluble and unsaponifiable oil, a fatty acid having a hydrocarbon radical of at least twelve carbon atoms and an alkali, and then diluting said conditioned pulp and subjecting it to froth-flotation to float off the iron impurities from the silica, leaving the tailings as the purified glass sands.

2,283,296
VALVE MECHANISM
Paul C. Temple, Decatur, Ill., assignor to A. W. Cash Company, Decatur, Ill., a corporation of Delaware
Application January 12, 1939, Serial No. 250,590
8 Claims. (Cl. 137—153)



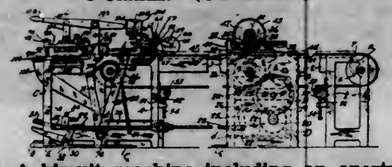
1. A valve mechanism comprising a valve body having an atmospheric discharge port surrounded at its inner end by an annular valve seat, a valve mounted within the body and arranged to contact with the seat, a stem extending outwardly from the valve through the port, a device movable in response to variations in a fluid pressure, a movable abutment actuated by the device, the abutment being arranged to contact with the valve stem at one side and tip the valve relative to the seat, and means to adjust the position of the valve body in a direction substantially parallel with the valve stem and thereby vary the effective length of the valve stem.

2,283,297
RAILWAY SIGNALING SYSTEM
Howard A. Thompson, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application February 17, 1940, Serial No. 319,510
7 Claims. (Cl. 246—33)



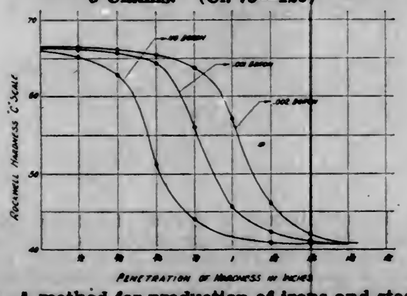
7. In combination, a stretch of railway track which is arranged into successive track sections, a signal block length of said track which embraces at least one of said sections, first and second signals respectively identified with opposing ends of said block and respectively arranged to govern the entry thereinto of first direction trains and of second direction trains, a control circuit for said first signal which includes a pair of line conductors that are coextensive with said signal block length of track plus the section which adjoins the second signal end of that block, means effective under vacant conditions of both said block and said adjoining section for transmitting over the conductors of said line circuit coded current which causes said first signal to display a proceed indication, an approach relay serially connected in one of said line conductors and held continuously picked up by the said coded current which flows through that conductor, means controlled by said approach relay for supplying energizing current to said second signal when and only when that relay is released, and means responsive to the presence of a train in either said signal block or said adjoining section for interrupting said line circuit whereby then to cause said first signal to give a restrictive indication and whereby then also to release said approach relay and render said second signal active.

2,283,298
BISCUIT MACHINE
Walter A. Thum, St. Louis, Mo., assignor to Papendick, Inc., St. Louis, Mo., a corporation of Missouri
Application January 29, 1940, Serial No. 316,140
3 Claims. (Cl. 107—25)



1. A biscuit machine including an apertured die-plate for receiving a substantially flat dough-sheet, a head-plate mounted for flatwise reciprocation over the die-plate, a series of spaced cylindrical open-bottom punch-members depending from said head-plate for corresponding removable projection into the apertures of the die-plate and through the interposed dough-sheet, each of said punch-members having adjacent its outer periphery an annular dough-engaging area disposed in a plane perpendicular to the longitudinal axis of said punch-member and means for reciprocating the head-plate and its carried punch-members.

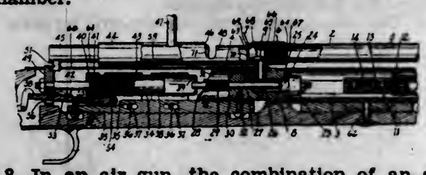
2,283,299
MANUFACTURE OF STEEL
Norman Fenwick Tisdale, Mount Lebanon, Pa., assignor to Molybdenum Corporation of America, New York, N. Y., a corporation of Delaware
Application July 31, 1940, Serial No. 348,635
5 Claims. (Cl. 75—129)



1. A method for production of irons and steels, which comprises blocking an iron containing melt, tapping until a substantial amount of the melt has been removed, then degasifying to substantial completion through incorporation of a degasifier in an amount sufficient not only to degasify that portion of the melt already tapped but in excess of that which is sufficient completely to degasify the entire amount of melt to be tapped, then adding boron thereto in substantially full amount in order that the same may be incorporated in the melt whereby further oxidation of boron is minimized during continued tapping of the melt, and then continuing the tapping until it is complete.

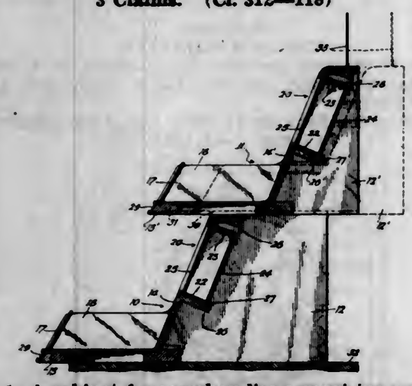
2,283,300
AIR SHOTGUN
Perry Franklin Vincent, Hillsdale, Mich.
Application August 10, 1939, Serial No. 289,419
10 Claims. (Cl. 124—13)

1. The combination of a shot shell comprising a case closed at one end, a wad therein spaced from the closed end, shot between said wad and the other end of said shell, said shell having a lateral port between the closed end and said wad, and an air gun having a chamber into which said shell fits having a port opening laterally into said chamber and in register with the port in said shell when the shell is in position in the chamber, and eccentrically disposed means on said shell, and means on said gun for engaging said eccentrically disposed means to position said shell so that said ports are in register when the shell is in position in the chamber and a breech block to engage said shell and hold it in said chamber.



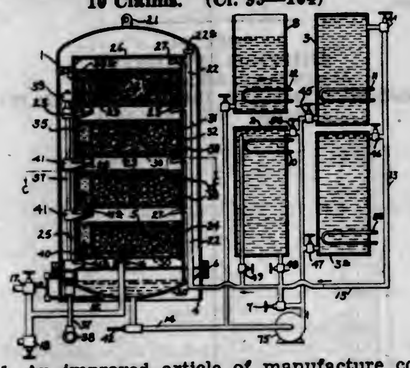
8. In an air gun, the combination of an air reservoir adapted when fully charged with air under pressure to hold sufficient air for several shots, a port leading therefrom, a poppet valve in said reservoir and closing said port and having a stem, substantially the entire resistance to the opening of said valve being the pressure of air in said reservoir, a hammer extending along the line of the axis of said valve stem and movable from a cocked position spaced from said stem to a discharging position in contact with the end of the stem to open the valve, a spring adapted to propel said hammer from cocked position to discharged position, said hammer being adapted when propelled by said spring from cocked to discharging position to strike said stem and open said valve, and means for supporting said hammer and spring as a unit and adjustable as a unit toward or away from said valve, and stop means mounted on said supporting means for accurately limiting firing movement of said hammer and the opening of the valve.

2,283,301
MERCHANDISE DISPLAY CABINET
Dean T. Waddell, Greenfield, Ohio, assignor to E. J. Brach & Sons, Chicago, Ill., a corporation of Illinois
Application January 4, 1940, Serial No. 312,317
3 Claims. (Cl. 312—118)



1. A cabinet for merchandise comprising a pair of sections one superposed on the other and provided with means enabling horizontal adjustment of the upper section with respect to the lower section, each section comprising a row of open top bins for packaged merchandise and a row of elevated compartments each located rearwardly of one of said bins, said compartments having open front faces, and a removable sham for each compartment comprising a container for unwrapped merchandise corresponding to the wrapped merchandise of the adjacent bin and provided with a glazed front wall for displaying the contained merchandise and identifying the wrapped merchandise of the associated bin.

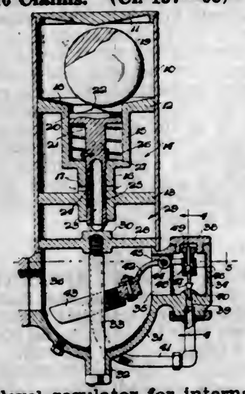
2,283,302
FOOD COMPOSITION
Wells Alan Webb, Albany, Calif.
Application February 25, 1939, Serial No. 258,482
10 Claims. (Cl. 99—104)



1. An improved article of manufacture comprising the dehydrated flesh of fruit without material change in the physical and chemical structures of the original fruit solids, said fruit being in the distended condition, and containing an added anhydrous substance in the pores normally filled with water.

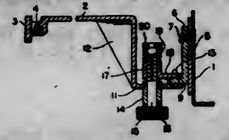
8. An improved article of manufacture comprising the whole, dehydrated raisin in a distended, crisp and porous condition without material change in the physical and chemical structures of the original fruit solids, and a fatty substance filling the internal pores of the raisin.

2,283,303
OIL LEVEL REGULATOR
Stewart B. Whitlock, Rising Sun, Ind.
Application August 26, 1941, Serial No. 408,379
10 Claims. (Cl. 137—68)



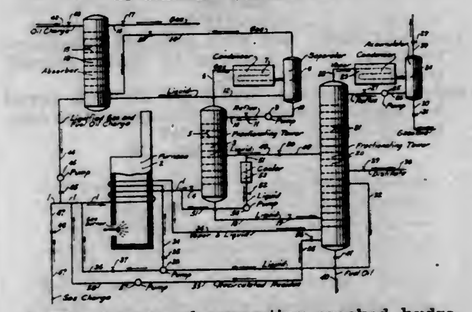
1. An oil level regulator for internal combustion engines including a casing having a bowl for attachment to an engine crank case, spaced means within the casing defining a supply chamber and a discharge chamber therein, the discharge chamber communicating with the bowl, a valve controlling the flow of oil from the supply chamber to the discharge chamber, an element confined within the casing and adapted to roll in all directions to coact with the valve and control the opening and closing thereof, and means responsive to the level of oil in the bowl for controlling the admission of oil thereto from said discharge chamber.

2,283,304
LATCH MECHANISM
Calvin C. Williams, Philadelphia, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 22, 1941, Serial No. 384,761
2 Claims. (Cl. 292—212)



1. In a latch mechanism a latch plate provided with an opening therein, a member movable relative thereto and having a projection received by said opening in one relative position of said plate and member, a threaded shaft journaled on said member, a latch member threaded on said shaft whereby rotation of the shaft will rotate and produce axial movement of said latch member, the parts being so positioned relative to each other that rotation of said shaft will first move said latch member into engagement with said projection and further rotation of the shaft will then produce axial movement of the latch member to draw the latch member tightly against said latch plate.
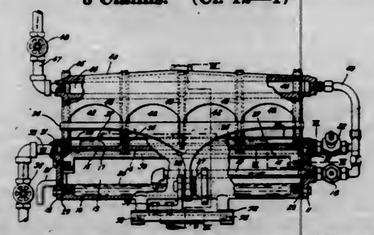
2,283,305
HYDROCARBON GAS CONVERSION PROCESS
Malcolm P. Youker, Bartlesville, Okla., assignor to Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware
Application April 2, 1931, Serial No. 527,267
15 Claims. (Cl. 196—9)



1. The process of converting cracked hydrocarbon gases to comparatively less volatile hydrocarbon liquids, comprising contacting a stream of hydrocarbon liquid with a stream of cracked hydrocarbon gases and thereby absorbing some of said gases in said stream of hydrocarbon liquid, mixing a heavy hydrocarbon liquid with the stream of liquid which results from said contact and then subjecting the resulting mixture to sufficient heat and superatmospheric pressure to convert the mixture into new hydrocarbon compounds, mixing with the product of said conversion a comparatively cool hydrocarbon liquid, expanding the product of said last mentioned mixing into a zone of lower pressure, separating the expanded mixture in said zone into a light liquid fraction, a heavier liquid fraction and a gaseous fraction, said gaseous fraction being the

first mentioned stream of hydrocarbon gases, introducing said liquid fractions into a common second fractionating zone, fractionating the same therein into a plurality of fractions, and mixing one of the liquid fractions from the last mentioned zone with the first mentioned hydrocarbon liquid and said heavy hydrocarbon liquid.

2,283,306
SHOE-TREATING APPARATUS
Irving B. Andrews, Beverly, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application April 29, 1939, Serial No. 270,847
8 Claims. (Cl. 12—1)



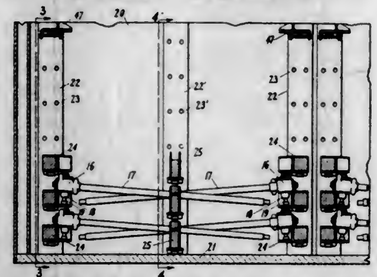
1. A shoe-treating apparatus comprising a hollow body forming an expansion chamber and for maintaining a body of water to supply vapor, the top wall of said chamber having one or more openings through which limited quantities of vapor may flow to shoes stationed above it, a steam-heated heat-radiating element forming a superheating chamber to enclose the vapor between said wall and the work, means for supplying pressure-steam to said heat-radiating element, and means arranged to conduct the used steam from said heat-radiating element and discharge it in the water in said expansion chamber to supply the vapor.

2,283,307
GRATING
Richard J. Barry, New York, and Carl Rasmussen, Flushing, N. Y., assignors to Walter Edward Irving, Glenbrook, Conn.
Original application September 27, 1940, Serial No. 358,598. Divided and this application January 2, 1941, Serial No. 372,706
9 Claims. (Cl. 94—30)



1. A traffic-bearing grating comprising a plurality of side-by-side rows of elongated grating panels with the panels of each row arranged end to end and side by side with the panels of an adjoining row to form a continuous grating of all of said panels; releasable coupling connections between the individual side-by-side panels of said rows and each of said connections comprising a coupling tongue borne by one panel, a coupling slide borne by the sidewise adjoining panel and engaging said tongue and means supporting and constantly retaining said slide for sliding upon its respective panel longitudinally of the latter between coupling and release positions; and releasable coupling connections between the successive end-to-end panels of each row and each comprising a coupling tongue borne by one panel and extending from an end thereof longitudinally of the panel, a coupling slide borne by an endwise adjoining panel and engaging the latter tongue, and means supporting and constantly retaining the latter slide for sliding upon its respective panel longitudinally of the panel between coupling and release positions.

2,283,308
SHIPPING APPARATUS
James Bean, Alhambra, Calif.
Application March 25, 1940, Serial No. 325,727
4 Claims. (Cl. 105—377)

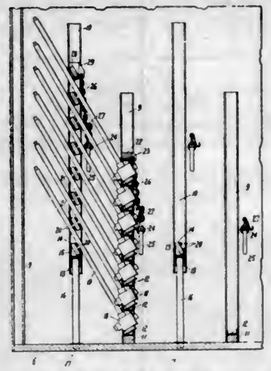


1. Apparatus for stowing irregular objects in containers, said objects having relatively long portions projecting from one side and relatively short portions projecting from another side at approximately right angles to the long portions, comprising a plurality of removable weight supporting bars extending horizontally across the container, said bars being arranged in two horizontally spaced tiers, each bar having an upper surface provided with a plurality of sockets formed to receive the short projecting portions of the objects, said objects resting upon said upper surfaces of the bars of each tier with their long projecting portions directed toward the bars of the other tier, each bar having a lower surface and being so spaced above the next lower bar of the tier that said lower surface is close to the upper surface of the objects supported by said next lower bar whereby the short projecting portions of said objects are held in said sockets, a third tier of removable bars extending across the container between the two first mentioned tiers of bars, the bars of the third tier being positioned to support the long projecting portions of the objects, supporting members within the container at the ends of said tiers of bars, and separable cooperating connecting means on said supporting members and on said bars.

2,283,309
CARGO STOWING APPARATUS
James Bean, Alhambra, and Emmet W. Narramore, Oakland, Calif.
Application July 14, 1941, Serial No. 402,342
8 Claims. (Cl. 105—367)

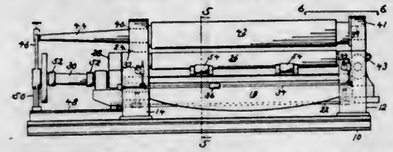
1. Apparatus for stowing irregular objects in containers, each of said objects having a body portion and a long portion extending therefrom, comprising means for supporting a plurality of horizontal rows of said body portions in vertical tiers, the objects being placed with their long portions parallel and inclined upwardly away from said tiers, and a plurality of horizontal bars arranged in a tier remote from said tiers of body portions, the long portions of each row of

objects resting upon one of said bars, each of said bars being positioned at a higher level than



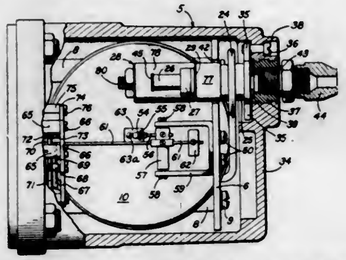
the row of body portions whose long portions rest upon it.

2,283,310
SHEET AND PLATE METAL FORMING MACHINE
William R. Beatty, Hammond, Ind.
Application March 11, 1940, Serial No. 323,242
7 Claims. (Cl. 153—54)



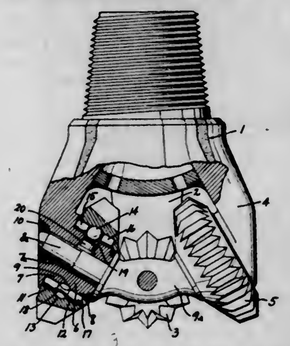
1. In a machine for forming sheet and plate metal sections, a plurality of rolls disposed normally in pyramid formation, the lower rolls of the base of said pyramid being spaced apart and parallel, means for moving in unison the lower rolls of said pyramid formation both vertically and horizontally in respect to said upper roll without disturbing their spacing, and means movable with said lower rolls for supporting the intermediate portions thereof.

2,283,311
COMPENSATING MEANS FOR PRESSURE RESPONSIVE DEVICES
James E. Bevins, Wood-Ridge, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application February 16, 1940, Serial No. 319,367
3 Claims. (Cl. 73—179)



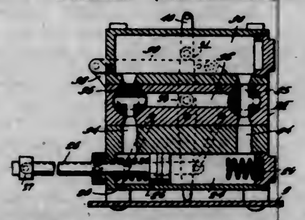
1. In a rate of climb indicator, a substantially air-tight case, a pressure responsive expansible and contractible diaphragm within said case and having the inside thereof in free communication with the atmosphere outside of said case, indicating means including a pointer, motion transmitting means connecting said pointer to said diaphragm for actuation thereby, manually operable means for bodily shifting the diaphragm along its operating axis to adjust said pointer to zero, and a flow retarding assembly mounted in said case for controlling the retardation of the flow of air between the inside and outside of said case when the atmosphere pressure changes, said assembly consisting of a valve body providing a valve chamber having a valve opening leading into the inside of said case for direct but controllable passage of air between the inside of the case and the atmosphere outside of said case, a valve closure member rigidly mounted in said valve chamber for cooperation with said valve opening, a single porous diffuser element mounted on said valve body in parallel air flow relation with said valve opening and providing flow-restricting passage between the inside and outside of said case, said valve body being of duraluminum and said closure member being of invar, whereby said valve body expands and contracts to a greater extent than said closure member in response to changes in temperature, to produce relative movement therebetween for regulating the flow of air through said valve opening for direct communication with the atmosphere outside of the case and causing more air to flow through said diffuser element at low temperatures than at high temperatures to compensate for errors due to the difference in viscosity of the air at different temperatures, and means for initially adjusting the relative distance between said valve opening and said valve closure member for calibration purposes.

2,283,312
ROCK BIT
Elvin G. Boice, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application March 6, 1941, Serial No. 382,012
3 Claims. (Cl. 308—174)



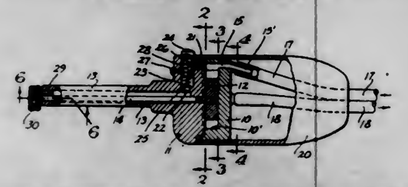
1. A cutter bearing for a roller bit comprising a pair of roller bearings adjacent the opposite ends of a cutter respectively and a ball bearing between said roller bearings, the balls comprising said ball bearing being of greater diameter than the rollers comprising said roller bearings respectively, said roller bearings including relatively short rollers on each side of the ball bearing and other relatively long rollers extending between adjacent ones of said balls to provide bearing parts within both of said roller bearings.

2,283,313
HYDRAULIC MOTOR
James W. Brocksen, Wilmington, Del., assignor of one-half to Samuel T. Green, Wilmington, Del.
Application March 11, 1940, Serial No. 323,462
1 Claim. (Cl. 121—164)



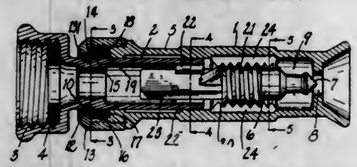
A hydraulic motor comprising a cylinder, an inlet chamber and an outlet chamber located between the first chamber and the cylinder and said motor having passages therein connecting the ends of the first chamber with the ends of the outlet chamber and the ends of the cylinder, valves in the ends of the outlet chamber having T-shaped ports therein which in one position of the valves connect the first chamber with the cylinder and in another position connect the cylinder with the outlet chamber, a piston in the cylinder, an arm connected with each valve and located exterior of the motor, a link connecting the arms together, a lever pivoted intermediate its ends to an exterior part of the motor, stops on the link for engagement by the upper end of the lever, a spring for moving the lever in either one of its two positions for shifting the valves, after the lever passes dead center, a sliding bar having stops thereon for engaging the lower end of the lever and means for reciprocating the bar from the piston to cause the stops thereon to actuate the lever.

2,283,314
HYDRODENTAL BRUSH
John L. Ckola, Chippewa Falls, Wis.
Application August 1, 1940, Serial No. 349,131
3 Claims. (Cl. 15—24)



1. In a device of the kind described, a cylinder block formed in one face with a cylindrical rotor seat having circumferentially spaced fluid inlet and outlet ports, a cylinder head detachably secured to said cylinder block and closing the open side thereof, said head having an axially projecting tubular stem, said cylinder head having a valve-equipped by-passage leading into said tubular stem from that part of said cylinder block that is in communication with its intake port, a peripherally toothed rotor mounted in said rotor seat and having a shaft extended outward through the stem of said cylinder head with clearance for the flow of water through said stem, the said clearance space having a discharge passage opening at the extreme end of said stem, and the outer end of said shaft, adjacent to said discharge passage, being equipped with a brush-like head, and an outer casing detachably secured to said block and cylinder head and said casing having approximately the same diameter as said cylinder head and being of a diameter adapted to be readily gripped in the hand of the operator.

2,283,315
SPRAY NOZZLE
Herbert D. Clemmons, Sturgis, Mich., assignor to Scovill Manufacturing Company, Sturgis, Mich.
Application July 22, 1940, Serial No. 346,791
7 Claims. (Cl. 299—136)



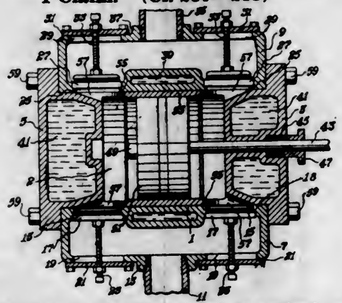
1. A nozzle of the type described comprising inner fixed and outer rotatable hollow tubular members disposed coaxially in telescoping relation, means for restraining said members from relative axial movement, said outer rotatable member having a discharge orifice therein and said inner fixed member being adapted for connection to a hose or like source of liquid supply, and a flow control member of solid cross section disposed concentrically of said fixed and rotatable members and axially adjustable relative thereto, said rotatable member having threaded connection with said control member and said fixed member having means engageable with the control member to prevent relative rotation of the control member and fixed member through more than a predetermined angle upon relative rotation of the fixed and rotatable members, whereby said control member is axially projected and retracted relative to said orifice, said threaded connection between the control member and rotatable member having axial passages therethrough freely communicating with said discharge orifice at one end and with the interior of the fixed member, said fixed and rotatable members being free from internal radial projections of substantial size other than said orifice, such as would substantially restrict and divert radially the flow of liquid, and said control member being of elongated, generally cylindrical section at said threaded connection, free from external radial projections beyond its cylindrical periphery causing turbulence in the flow, whereby liquid passes exteriorly of the control member from said fixed member to said orifice without substantial or sudden changes in the direction of flow thereof.

2,283,316
ONE-STAGE PROCESS FOR THE MANUFACTURE OF RUBBER
Lester Cooper, Milford, Conn., and Dudley Roberts, New York, N. Y., assignors to Rubatex Products, Inc., New York, N. Y., a corporation of Delaware
Application October 25, 1938, Serial No. 236,868
4 Claims. (Cl. 18—53)



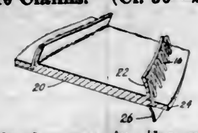
1. The process of producing closed cell gas expanded material which comprises mixing rubber with a vulcanizing agent and a blowing agent, shaping the mix to the shape of the final article desired but in miniature size, confining the mix in a mold, heating the mix to vulcanize the rubber and decompose the blowing agent, releasing the vulcanized rubber from its confinement while it is still hot, and expanding the rubber to the final size and shape by means of the gas internally developed by the decomposition of the chemical blowing agent.

2,283,317
CYLINDER LINER
William F. Cumiskey, Painted Post, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey
Application May 31, 1939, Serial No. 276,497
1 Claim. (Cl. 230—238)



In a device of the character described, a cylinder having a piston therein, a discharge port in each end of the cylinder, an inlet port at each end of the cylinder, a head to close each end of the cylinder extending into the cylinder, a liner sleeve for the cylinder extending to points substantially adjacent the edges of said ports but not coinciding with the edges of said ports, coacting liner sleeves formed on each head extending within the cylinder to the first said liner sleeve, and ports in said coacting liner sleeves to coincide with said inlet and outlet ports.

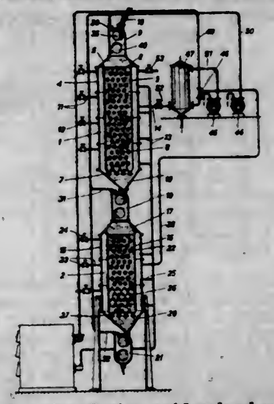
2,283,318
INSOLE
Michele Cuozzo, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application December 2, 1940, Serial No. 368,199
10 Claims. (Cl. 36—22)



1. An insole for use in the manufacture of welted shoes comprising a body portion, a continuous upstanding flap on the body portion, and a series of thread loops anchored in the body portion and arranged to lie against the outer face only of the continuous flap to form with the flap a sewing rib.

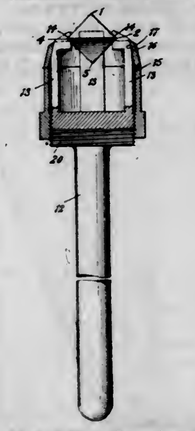
2,283,319
VERTICAL GRAIN DRIER
Karl Dienst, Hildesheim, Germany
Application June 11, 1938, Serial No. 213,277
In Germany June 18, 1937
2 Claims. (Cl. 34—92)

1. An apparatus for drying grain, comprising an upper vacuum drier of the flow type, a valve discharging device for delivering grain into said upper drier, heating elements in said upper drier, a lower vacuum drier of the flow type, heating elements in said lower vacuum drier, a valved connecting mechanism between the upper drier and lower drier for controlling the discharge of grain from said upper drier to said lower drier and serving to seal the upper drier with respect to the lower drier, a valve discharging device at the bottom of said lower drier for discharging grain therefrom, suction means for maintaining



said valve charging device, said valved connecting mechanism and said valve discharging device under vacuum whereby to prevent the access of external air to the upper and lower driers and to isolate the lower drier from the upper drier, vacuum pumping means, and means including a condenser connected to said pumping means and to said upper drier for producing a vacuum in said upper drier, and an ejector having the suction part thereof connected to said lower drier for producing a higher vacuum in said lower drier than the vacuum created in said upper drier.

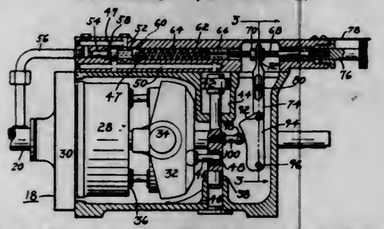
2,283,320
DIAMOND-HOLDING TOOL
Julius Dinhofer, New York, N. Y.
Application May 1, 1941, Serial No. 391,235
4 Claims. (Cl. 125—39)



1. A diamond-holding dressing tool comprising a diamond of octahedral form, and a holder in

which the same is mounted, said holder including a plurality of jaws for engaging the girdle of the diamond on four sides only to thereby grip the diamond and hold the same with all pointed ends of the diamond projecting between the jaws.

2,283,321
POWER TRANSMISSION
Thomas B. Doe, New York, N. Y., and Wilbert M. Gilman, Watertown, Conn., assignors to The Waterbury Tool Company, Waterbury, Conn., a corporation of Connecticut
Application April 15, 1937, Serial No. 137,080
13 Claims. (Cl. 242—75)



2. A device for reeling strip material comprising in combination a reel, driving means for the reel including a variable displacement fluid pump and a fixed displacement fluid motor driven by the pump and control means for maintaining a constant peripheral tension in the material being reeled, including means mechanically independent of the reel and strip material for controlling the displacement of the pump in a manner to keep the product of pressure and displacement substantially constant.

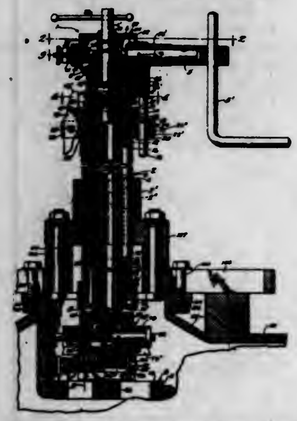
6. In a fluid power transmission system the combination of a load device, a prime mover, a variable displacement fluid pump driven by the prime mover, a fluid motor driven by the pump and driving the load device, and control means for maintaining a constant horsepower output to the load device, said control means including an element for controlling the pump displacement and subjected to the fluid pressure in the transmission, resilient means acting on said element in opposition to the fluid pressure, and means for varying the effect of the resilient means in response to changes in pump displacement.

2,283,322
WEED CUTTER
William G. Edell, Upper Darby, Pa.
Application October 15, 1940, Serial No. 361,243
3 Claims. (Cl. 30—318)



2. A cutting tool adapted to be moved to and fro, comprising a metallic member of angular cross section and longitudinally arched about a transverse axis, to provide depending heel and toe portions, said member being also provided with oppositely directed cutting edges lying in a common plane.

2,283,323
APPARATUS FOR CUTTING VALVE SEATS
Joseph Erhardt, Chicago, Ill.
Application August 30, 1940, Serial No. 354,838
10 Claims. (Cl. 90—12.5)



5. In a device of the class described, an elongated frame having a pair of concentric shafts with a power-receiving head at one end and a tool-control head at the opposite end, the power-receiving head being fixed on said frame and containing a gear fixed on the outer of said shafts to power the latter, said power-receiving head also having radially disposed therein a pawl with means to urge it inwardly, a cam on said gear to operate said pawl once for each revolution of said gear and outer shaft, a toothed ratchet fixed on said inner shaft to receive a part of said pawl whenever the latter moves inwardly whereby the inner shaft is momentarily arrested periodically, said tool-control head comprising a radial arm with a cutter thereon, and means to advance said arm and cutter comprising a carriage for said arm slidably mounted on the lower end of said outer shaft and turnable therewith, a screw to move said carriage, and a pair of bevel gears on said screw and inner shaft to actuate said screw and carriage whenever the rotation of said inner shaft is momentarily arrested by said pawl during use of the tool.

2,283,324
STAND FOR MICROPHONES AND THE LIKE
Peter J. Faber, Chicago, Ill.
Application April 24, 1939, Serial No. 269,660
4 Claims. (Cl. 248—194)

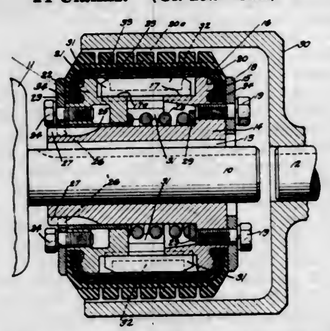
4. A base assembly for a microphone stand comprising in combination a base member having means receiving and retaining a removable extension section tube, lugs on said base member, arms journaled on said lugs and rotatable to bring one end of said arm flush against the face of the base member when the arms are in extended position, and an adjusting means on the other end of at least one of said arms spacing the end of said arm from the support on which the base assembly rests, and means holding said

arms firmly in extended position, said holding means consisting of a locking ring adjustably carried by said base member and adjustable to



contact each of said arms and hold them flush against the face of the base member, substantially as described.

2,283,325
CENTRIFUGAL CLUTCH
Thomas L. Fawick, Akron, Ohio, assignor to The Fawick General Company, Inc., a corporation of Indiana
Application September 13, 1938, Serial No. 229,683
14 Claims. (Cl. 192—105)



1. A centrifugal clutch comprising an outer driven member and an inner driving assembly, the latter comprising a circumferentially disposed strip of stretchable material, a series of centrifugal weights for stretching it outward to effect driving engagement with the driven member, the said strip being adapted, by reason of elastic recoil, to urge the weights toward their de-clutch positions and elastic means additional to the stretchable strip for urging it to assume its de-clutch position.

2,283,326
YELLOW AZO DYESTUFFS
Friedrich Felix and Willy Müller, Basel, Switzerland, assignors to the firm of Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application October 7, 1940, Serial No. 360,180. In Switzerland October 26, 1939
10 Claims. (Cl. 260—163)

1. The dyestuffs which are the acid esters from divalent acids of molecular weight not less than 90 and azo dyestuffs of the general formula

$$HO-x-O-\overset{\overset{O}{\|}}{C}-R_1-N=N-R_2$$

in which x represents an alkyl radical consisting of at least 2 and at most 4 carbon atoms, R_1 stands for a mononuclear aromatic six membered ring, and R_2 for the radical of a yellow component, which products are dyestuffs dyeing greenish-yellow to reddish-yellow shades.

2,283,327
AZO DYESTUFFS
Friedrich Felix, Basel, and Rudolf von Capeller, Riehen, Switzerland, assignors to the firm Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application November 7, 1940, Serial No. 364,750. In Switzerland September 18, 1937
6 Claims. (Cl. 260—205)

1. The unsulfonated azo-dyestuffs which, in the free state, correspond to the general formula

$$NO_2-R_1-N=N-R_2-N\begin{matrix}x\\ \\ \text{alkylene}-O-\overset{\overset{O}{\|}}{C}-COOH\end{matrix}$$

in which R_1 represents a nucleus of the benzene series in which the NO_2 and the —N=N— groups are in the para-position to one another in which R_2 also represents a nucleus of the benzene series in which the —N=N— group and the

$$-N\begin{matrix}x\\ \\ \text{alkylene}-O-\overset{\overset{O}{\|}}{C}-COOH\end{matrix}$$ group

are in the para-position to one another, and in which x stands for a member selected from the group consisting of hydrogen, an alkyl radical, and an

$$\text{alkylene}-O-\overset{\overset{O}{\|}}{C}-COOH$$

radical, which products, in the form of their alkali salts, form water-soluble powders which dissolve in water to solutions which are orange to red, brown, violet or blue in color.

2,283,328
CLASP
Charles A. Goodwin, East Providence, R. I., assignor to B. A. Ballou & Co., Inc., a corporation of Rhode Island
Application March 20, 1941, Serial No. 384,305
4 Claims. (Cl. 24—232)



4. In a clasp, a body member comprising a sheet of stock in substantially a single plane and formulated to provide an attaching eye at one edge protruding beyond the main portion of the body and a narrow portion spaced from the eye to be threaded through some opening in a part to which the clasp is to be attached, a closure member also of sheet stock in substantially a single plane in face to face contact with the body member, said members each being provided with a central opening, means formed out of the stock

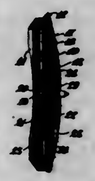
of the body for relatively rotatably mounting said members, said closure member being provided with a portion to extend across the opening between said narrow portion of the body and the main portion of the body to prevent a part in the opening through which said narrowed portion is threaded from becoming detached, said body member being also provided with a retaining part folded to sandwich the closure member between it and the body and resiliently apply pressure on the closure member to retain it in the position to which it is adjusted.

2,283,329
REVERSIBLE WINDOW SHADE
Samuel J. Johnson, West Chester, Ohio, assignor to Clopay Corporation, Cincinnati, Ohio, a corporation of Maryland
Application May 6, 1941, Serial No. 392,122
7 Claims. (Cl. 156—25)



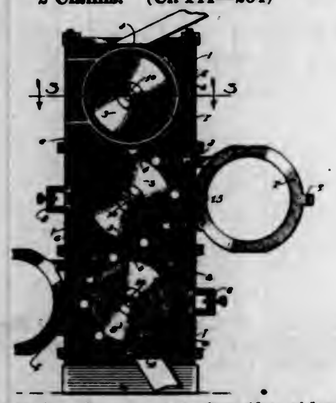
1. In a window shade, a pocket for sustaining a stiffening slat formed at the end of the shade which is normally adjacent the roller and adhesive means associated with said pocket for attaching the shade to the roller when its positioning is reversed.

2,283,330
MOVEMENT FOR WRIST WATCHES
Benjamin S. Katz, Cincinnati, Ohio, assignor to The Gruen Watch Company, Time Hill, Cincinnati, Ohio, a corporation of Ohio
Application November 22, 1940, Serial No. 366,570
1 Claim. (Cl. 58—59)



A wrist watch movement comprising, a plurality of plates joined together and adapted to support the working parts of the watch, one of said plates constituting a dial supporting plate and having an outer surface which curves outwardly and downwardly in all directions from a central point to an approximate feathered edge at the outer extremities of the plate, the remaining plates forming an assembly, the intermediate portion of which has an arcuate outer surface, the side edges of said assembly at the center of the arcuate portion being of less thickness than the thickness of the dial supporting plate at its center and approximately as thin as the feathered edges of the dial supporting plate, and the end portions of the assembly comprising elevated areas, the outer edges of which are of a thickness approximately as thin as the feathered edge of the dial supporting plate.

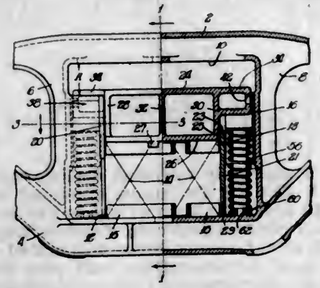
2,283,331
BUNG FORMING APPARATUS
George W. Lawton, Cincinnati, Ohio, assignor to The United States Bung Manufacturing Company, Cincinnati, Ohio, a corporation of New York
Application July 18, 1938, Serial No. 219,816
2 Claims. (Cl. 144—284)



1. Apparatus for compressing the sides of a cylindrical bung blank in a series of distinct stages, said apparatus comprising a plurality of units in spaced relationship, each unit comprising a base plate, a revolving roll journalled in the base plate, a curved die surface projecting from the base plate exterior of the roll and spaced therefrom and removable means positioned over the space between the outer periphery of the roll and the inner edge of the die surface to form therewith a completely enclosed passageway, the passageway being of uniform width throughout any single unit but progressively narrower in succeeding units, the passageway in each unit being connected to the passageway in the preceding unit by an extension portion of not less width than the passageway in the preceding unit, said extension portion being formed from separate surfaces between which the bungs are adapted to pass by gravity, said separate surfaces being spaced apart a distance slightly greater than the widest portion of the preceding completely enclosed passageway so as to permit the bungs to pass freely by gravity from one completely enclosed passageway to the next, whereby a distinct compressing action is applied to the bung in each individual unit but the compression is relieved as the bung passes from unit to unit.

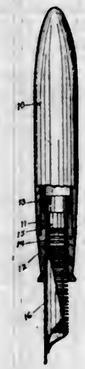
2,283,332
FOUR-WHEEL TRUCK
David M. Light, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application February 2, 1940, Serial No. 316,998
25 Claims. (Cl. 105—197)

1. In a four wheel truck, a truss side frame having a compression member, a tension member, and spaced columns forming a bolster opening, a spring seat on said tension member beneath said opening, each of said columns having inboard and outboard vertical flanges spaced at their upper ends from said compression member and reflanged along their upper portions to form inboard and outboard bolster guide surfaces, a spring group on said spring seat comprising auxiliary coils housed between said flanges, and a bolster projecting through said opening and seated on said spring group, said bolster comprising wedge members extending between said flanges, and wedge blocks seated on each of said auxiliary springs in engagement with said members, said wedge members having a depth less



than the space between said flanges and said compression member, whereby said bolster may be inserted or removed from said bolster opening while said spring group and wedges remain in assembled position.

2,283,333
FOUNTAIN PEN
Lynn P. Martin, Fort Madison, Iowa, assignor to W. A. Sheaffer Pen Company, Fort Madison, Iowa, a corporation of Delaware
Application May 22, 1941, Serial No. 394,600
15 Claims. (Cl. 120—50)



1. A fountain pen including a feed bar having a shank portion adapted to be mounted within the end of the bore of the barrel thereof and a nib supporting portion extending beyond the end of the barrel, an internal duct extending longitudinally of said feed bar from one end thereof in communication with a writing fluid reservoir in the barrel to a point intermediate the ends thereof, a vent opening extending transversely of said feed bar outside the end of the barrel and communicating with said internal duct, and a longitudinally extending fissure of capillary dimensions in said feed bar extending from the reservoir end thereof to a point adjacent the other end thereof for supplying writing fluid to the nib, said fissure extending from said nib supporting surface transversely through and below said internal duct.

2,283,334
VULCANIZATION OF RUBBER
Arthur M. Neal, Wilmington, Del., and Bernard M. Sturgis, Pitman, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 18, 1940, Serial No. 346,140
23 Claims. (Cl. 260—785)

1. Rubber having incorporated therein, prior to vulcanization, an accelerator of the group consisting of 2-mercapto-thiazolines and metal salts thereof in which the valences of the metals are satisfied by 2-mercapto-thiazoline radicals only, as a primary accelerator, and an accelerating derivative of a dithiocarbamic acid, as a secondary accelerator, there being from about 1 to about 100 parts of the primary accelerator to each part of the secondary accelerator.

2,283,335
VULCANIZATION OF RUBBER
Arthur M. Neal, Wilmington, Del., and Bernard M. Sturgis, Pitman, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 25, 1940, Serial No. 347,473
26 Claims. (Cl. 260—786)

1. Rubber having incorporated therein, prior to vulcanization, an accelerator of the group consisting of 2-mercapto-thiazolines and metal salts thereof in which the valences of the metals are satisfied by 2-mercapto-thiazoline radicals only, as a primary accelerator, and an accelerating acyl derivative of a dithiocarbamic acid, wherein the acyl radical is attached through the sulfhydryl sulfur of the dithiocarbamic acid, as a secondary accelerator, there being from about 1 to about 50 parts of the primary accelerator to each part of the secondary accelerator.

2,283,336
VULCANIZATION OF RUBBER
Arthur M. Neal, Wilmington, Del., and Bernard M. Sturgis, Pitman, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 25, 1940, Serial No. 347,474
23 Claims. (Cl. 260—786)

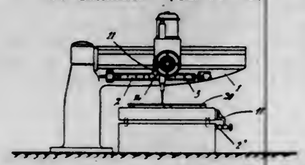
1. Rubber having incorporated therein, prior to vulcanization, an accelerator of the group consisting of 2-mercapto-thiazolines and metal salts thereof in which the valences of the metals are satisfied by 2-mercapto-thiazoline radicals only, as a primary accelerator, and an accelerating metal salt of a dithiocarbamic acid, as a secondary accelerator, there being from about 1 to about 100 parts of the primary accelerator to each part of the secondary accelerator.

2,283,337
VULCANIZATION OF RUBBER
Arthur M. Neal, Wilmington, Del., and Bernard M. Sturgis, Pitman, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 25, 1940, Serial No. 347,475
28 Claims. (Cl. 260—786)

1. Rubber having incorporated therein, prior to vulcanization, an accelerator of the group consisting of 2-mercapto-thiazolines and metal salts thereof in which the valences of the metals are

satisfied by 2-mercapto-thiazoline radicals only, as a primary accelerator, and an accelerating ester of a dithiocarbamic acid, as a secondary accelerator, there being from about 1.5 to about 25 parts of the primary accelerator to each part of the secondary accelerator.

2,283,338
DRILLING MACHINE
Marcel Pégard, Paris, France
Application December 30, 1939, Serial No. 311,876
In France August 17, 1939
10 Claims. (Cl. 77—5)



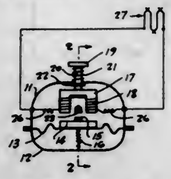
1. In a drilling machine including a tool supporting carriage and an arm of fixed position, means for guiding said carriage parallel to said arm, and a support for the piece of work adapted to be secured in fixed position with respect to said arm, whereby the piece of work can be acted upon by the tool, the combination of a rule carriage by said arm parallel to the path of said carriage, said rule being provided with holes formed therein at given intervals along its length and in different radial planes, and being rotatable about its axis with respect to said arm, and a sliding stop pin elastically mounted on said carriage adapted to engage into the holes of the rule located opposite it, successively for holding temporarily said carriage in fixed position with respect to said arm.

2,283,339
CLAMPING RING
Hyman Phillips, Cincinnati, Ohio, assignor to The Phillips Pump & Tank Company, Cincinnati, Ohio, a corporaton of Ohio
Application November 28, 1939, Serial No. 306,539
6 Claims. (Cl. 220—61)



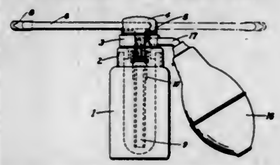
1. A clamping ring for securing a head upon a barrel, which comprises a split ring element, a latch retaining bracket having slots constituting a rack and having feet mounted upon the ring at one side of the split, with the body portion of the rack intermediate the feet spaced from the ring so as to constitute a passageway therebetween, said body portion having said slots therein, a latch in assembly with the latch retaining bracket and comprising pin means at one end of said latch cooperating with said passageway and said slots for adjustably keeping said latch in position, an abutment carried on the ring at an opposite side of the split, and cam means carried by the latch, at the other end thereof from the pin means, for engagement with the abutment, said latch containing an aperture, said abutment extending through the aperture for straddling engagement of the latch with the abutment.

2,283,340
ELECTRIC SWITCH
William A. Ray, Glendale, Calif.
Application August 3, 1939, Serial No. 288,092
2 Claims. (Cl. 200—87)



1. In a manually operated electric switch, a casing, a flexible diaphragm mounted in said casing, an armature member carried by said diaphragm, a reciprocable core member cooperable with said armature member and mounted in said casing, a coil for energizing said core member, manual means extending thru a wall of said casing for moving said core member in one direction into engagement with said armature member, said manual means being effective by its subsequent movement in an opposite direction to move said armature member with said core member only when the members are magnetically held in engagement with each other by current flow in said coil, means biasing said armature member to its unmoved position, and switching means actuated by said movement of said armature member.

2,283,341
ATOMIZER
Joy B. Schmitt and Fred Custer, Toledo, Ohio, assignors to The DeVilbiss Company, Toledo, Ohio, a corporation of Ohio
Application April 27, 1940, Serial No. 331,938
5 Claims. (Cl. 299—88)



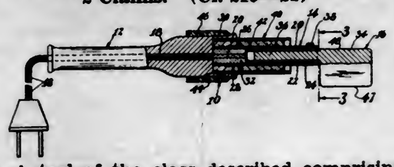
2. In an atomizer, a container for the liquid to be sprayed, a head piece fastened to the top of the container, valve means mounted on the head piece for rotation on a vertical axis to open and close the liquid container and an elongated nozzle extending radially from and rigidly connected to the valve means whereby the valve may be turned from open to closed position by manually swinging the nozzle in a horizontal arc.

2,283,342
VULCANIZATION OF RUBBER
Bernard M. Sturgis, Pitman, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 25, 1940, Serial No. 347,476
25 Claims. (Cl. 260—786)

1. Rubber having incorporated therein, prior to vulcanization, an accelerator of the group consisting of 2-mercapto-thiazolines and metal salts thereof in which the valences of the metals are satisfied by 2-mercapto-thiazoline radicals only, as a primary accelerator, and an accelerating substituted ammonium salt of a dithiocarbamic acid, as a secondary accelerator, there being

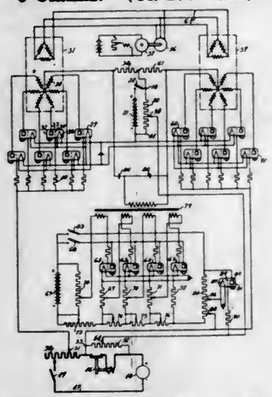
from about 1 to about 100 parts of the primary accelerator to each part of the secondary accelerator.

2,283,343
ELECTRICALLY HEATED IMPLEMENT
Edwin C. Weiskopf, New York, N. Y.
Application November 25, 1939, Serial No. 306,065
2 Claims. (Cl. 219—21)



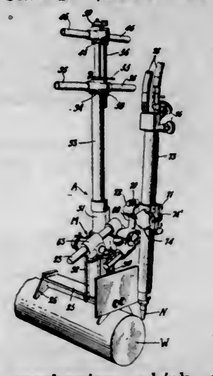
1. A tool of the class described comprising a metallic tubular member provided with an electric heating element, a blade carried by said tubular member and heated thereby when said electric heating element is energized, said blade having a wedge shaped head and a shank projecting from one end thereof at its thicker edge portion, said shank being in line with and positioned in said tubular member for transmitting heat therefrom to said head of the blade, the thinner edge portion of said head being offset laterally a substantial distance from said shank, means for securing said shank in position in said tubular member, and a handle member extending longitudinally of said tubular member externally thereof and thermally insulated therefrom, said handle having an insulation socket having a screw-threaded bore, one end of said tubular member being screw-threaded and engaging said socket in said screw-threaded bore thereof.

2,283,344
ELECTRIC TIMING SYSTEM
Harold Winograd, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application May 22, 1940, Serial No. 336,509
9 Claims. (Cl. 177—311)



1. In combination, a source of polyphase periodic current, an electric circuit subject to a predetermined operating condition, a plurality of electroresponsive means severally connected with the different phases of said source all successively operating during each voltage cycle of said source, and means responsive to occurrence of said condition for preventing starting of said electroresponsive means while maintaining said electroresponsive means connected with said source for maintaining in operation only the particular one of said plurality of means operating at the time of said occurrence.

2,283,345
BLOWPIPE MACHINE
Lloyd W. Young, Scotch Plains, N. J., assignor to Oxweld Acetylene Company, a corporation of West Virginia
Application April 26, 1940, Serial No. 331,693
27 Claims. (Cl. 266—23)

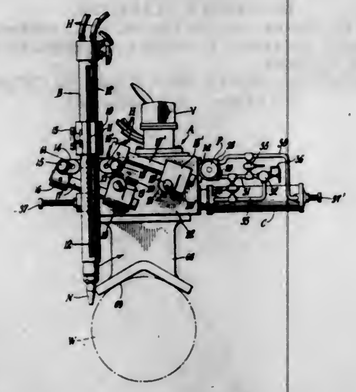


1. Blowpipe mechanism which comprises a frame adapted to be mounted in operative relation to a work surface; a pair of crank arms mounted for rotation with respect to said frame about spaced parallel fixed axes; a link member connecting said crank arms, said link member being pivoted to the outer portions of said arms; a blowpipe; and means for holding said blowpipe on said connecting link member, the longitudinal axis of said blowpipe being transverse to the main axis of said link member and to said fixed axes; the construction and arrangement being such that the pivot connections of said link member to said crank arms are constrained to move in arcs only on one side of the common plane containing said fixed axes.

2,283,346
BLOWPIPE MACHINE
James H. Bucknam, Cranford, and Lloyd W. Young, Scotch Plains, N. J., assignors to Oxweld Acetylene Company, a corporation of West Virginia
Application April 26, 1940, Serial No. 331,694
15 Claims. (Cl. 266—23)

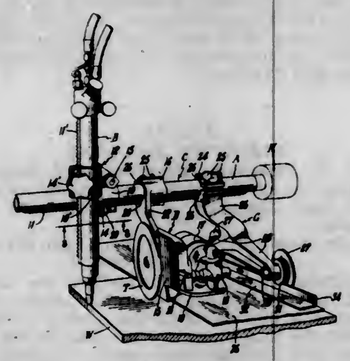
1. Blowpipe apparatus adjustable for cutting work of any desired cross-sectional shape, which comprises a cutting blowpipe having a nozzle; a holder for said blowpipe; mechanism for supporting and moving said holder to move said blowpipe in a fixed plane extending transversely of the work to be cut while moving said nozzle in a path which substantially follows the contour of the work surface; said mechanism comprising a pair of crank arms swingable about parallel axes; a link connecting said crank arms and carrying said holder, the length of said link being adjustable to change the angular relation between said crank arms; gears of equal diameter operatively connectible with each crank arm; a rack meshing with both of said gears; and means for reciprocating said rack for moving said nozzle in said path; the arrangement being such that, when said link is adjusted so that its length is equal to the distance between

said axes and both of said gears are operatively connected to said crank arms, movement of said rack causes the mechanism to move said nozzle in an arcuate path to follow an arcuate work surface, and, when said link is adjusted so that



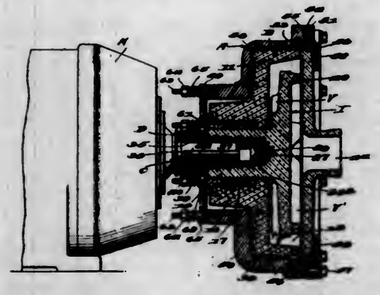
its length is less than the distance between said axes and only one of said gears is connected to its crank arm, movement of said rack causes the mechanism to move said nozzle in a flat path to follow a flat work surface.

2,283,347
PORTABLE TOOL CARRIAGE
Lloyd W. Young, Scotch Plains, N. J., assignor to Oxweld Acetylene Company, a corporation of West Virginia
Application March 22, 1941, Serial No. 384,665
16 Claims. (Cl. 266—23)



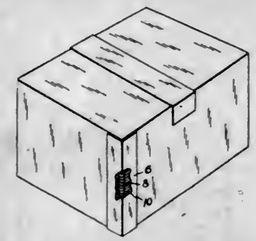
1. A carriage for supporting, propelling and guiding a tool (e. g., a blowpipe) relatively to a workpiece, such carriage comprising, in combination, a supporting and propelling unit including a traction wheel and mechanism for rotating said wheel; a supporting and guiding unit including at least one wheel for guiding the carriage along a desired path; and a connecting member secured to both such units and holding them spaced apart, said member and said units being so constructed and arranged that each unit is adjustable along, and removable from and replaceable on said member independently of the other unit, and each unit may be rigidly secured to said member in any one of a number of positions along said member, whereby the distance between said units may be varied.

2,283,348
PUMP
Harold E. Adams, South Norwalk, Conn., and Willard A. Kates, Corning, N. Y.; said Adams assignor to Nash Engineering Company, South Norwalk, Conn., a corporation of Connecticut, and said Kates assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Application December 21, 1939, Serial No. 310,462
13 Claims. (Cl. 287—53)



12. In a pump of the type adapted to handle corrosive fluids, and wherein elements of said pump are subjected to a wide range of created temperatures, the combination of a joint comprising a drive member, a driven frangible pumping member provided with a socket, a portion of said drive member positioned in said socket, and a combined mechanical and cushioning, load distributing bond between said members effective to couple them together, said load distributing bond including mechanically inter-related elements on the drive member and in the socket, and a plastic material disposed in and about said elements.

2,283,349
STAY TAPE
Edward H. Angier, Framingham, Mass., assignor to himself, as trustee
Application October 25, 1939, Serial No. 301,254
1 Claim. (Cl. 229—49)

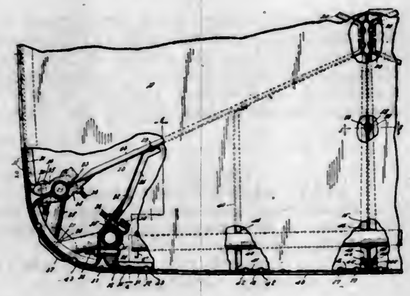


A stay tape comprising a main paper strip having transverse strand reinforcements extending at least across the central portion thereof and additional narrower paper strips secured longitudinally thereto and extending over the reinforced area but being spaced to expose between them a narrow longitudinal zone of such reinforced area between the longitudinal boundaries of the additional strips.

2,283,350
COMPOSITION FOR BLEACHING HAIR
Nathaniel Baum, Chicago, Ill., assignor to McLaughlin & Wallenstein, Chicago, Ill.
No Drawing. Application February 15, 1939, Serial No. 256,453
8 Claims. (Cl. 167—88)

1. A liquid composition for use with an aqueous solution of a peroxide for the bleaching of hair comprising an oleaginous solution of an aliphatic amine and an emulsifying agent.

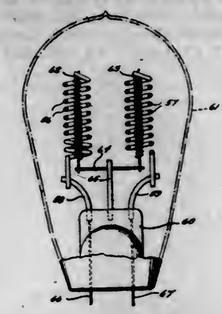
2,283,351
METAL TABLE
Earl C. Booth, Columbus, Ind., assignor to Noblitt-Sparks Industries, Inc., Columbus, Ind., a corporation of Indiana
Application March 6, 1941, Serial No. 382,003
10 Claims. (Cl. 311—105)



1. In a metal table, a generally rectangular sheet-metal top having a downwardly extending marginal flange, a sheet-metal brace associated with each corner of said top, each of said braces having a diagonally extending main portion, an intermediate portion lying against and secured to said flange at the corner of the table-top, and an end portion extending inwardly from said flange and secured to said main portion, a pair of clamp members secured to said flange and extending inwardly in juxtaposition to the main portion and end portion of said brace, each of said clamp members and its associated brace-portion being provided with a pair of opposed vertically extending grooves, a leg member received in each such pair of grooves, a common foot for the two leg members at each corner of the table, and clamp bolts acting between each clamp member and its associated brace-portion and disposed on opposite sides of the grooves therein.

2,283,352
LIGHTING DEVICE
Chester H. Braselton, New York, N. Y., assignor, by mesne assignments, to Sirian Wire and Contact Company, Newark, N. J., a corporation of Delaware
Application October 15, 1939, Serial No. 488,733
17 Claims. (Cl. 176—122)

2. A lamp comprising an envelope, an electron emitting element within said envelope, an anode spaced slightly from said element and connected

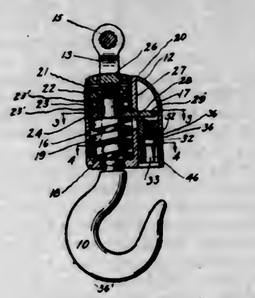


in simple series therewith, and an ionizable gas surrounding said element and anode.

2,283,353
VARNISH COMPOSITION
Irwin C. Clare, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 8, 1938, Serial No. 194,550
15 Claims. (Cl. 260—19)

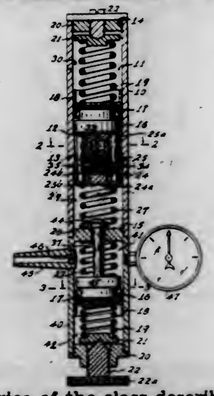
1. A varnish composition comprising as an ingredient the product of the reaction of a liquid derivative of a rosin, said derivative having a conjugated system of double bonds in the rosin nucleus, an unmodified oil-soluble phenol-aldehyde resin and a drying oil at a maximum temperature within the range of about 320° F. to about 600° F.

2,283,354
SAFETY ALARM
Richard Dalzell, Seattle, Wash., assignor of one-half to Adolph O. Stixrud, Seattle, Wash.
Application August 15, 1941, Serial No. 407,079
5 Claims. (Cl. 116—68)



3. A swinging housing for lifting weights, a load spring mounted in the housing, a lifting hook provided with a shank supported entirely by the load spring, an arm extended laterally from the shank for creating an alarm when the load on the hook has reached a predetermined limit, an explosive body mounted in the housing, a trigger bolt adjustably disposed beneath the arm, and adapted to be depressed when the arm is depressed by the load, means operatively connected with the bolt for firing the explosive when the load has depressed the arm to a predetermined danger point.

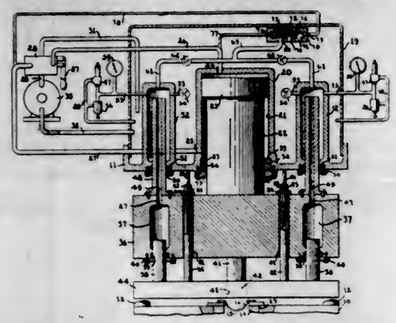
2,283,355
REDUCING VALVE AND FLOW REGULATOR
Clarence N. Erickson, Glendale, Calif.
Application November 30, 1938, Serial No. 243,155
2 Claims. (Cl. 50—35)



1. In a device of the class described, a tubular body originally open at both ends and providing a uniform-diameter bore opening at each end thereof; said body further providing a transverse web dividing said bore into an outer chamber and an inner chamber respectively and providing with said body a high pressure inlet orifice opening coaxially of said web into said inner chamber, a piston body freely reciprocable in said outer chamber having respectively, an inner end normally abutting said web to limit inward movement of the piston and a flat outer end, a flexible cup inverted over said piston body having respectively an imperforate central portion contiguous to the outer end of said piston body and an integral annular lip freely slidable on the corresponding margins of the said bore while cooperating therewith to prevent flow of gas toward the outer chamber, a reciprocable guide in said outer chamber of corresponding cross section to be a close working fit therein and acting to hold said flexible cup firmly contiguous to the outer end of said piston body, a removable closure at the originally open end of said outer chamber, a spring in said outer chamber compressed between said closure and said guide, a valve disc in said inner chamber movable axially to close said inlet orifice, rigid means removably interconnecting said valve disc and piston body for simultaneous movement, a removable closure for the open end of said inner chamber, and a spring of lesser strength than the first named spring compressed between said last named closure and said disc, said closures, springs, guide, cup, piston body and valve disc respectively being totally detached from one another and from the body, with the exception of the said means interconnecting the piston body and the valve disc; said interconnecting means including removable screws accessible through the corresponding end of said bore when the second named closure is removed.

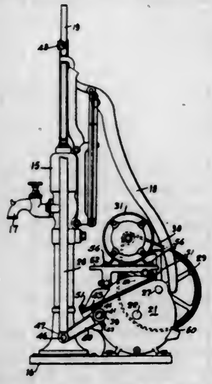
2,283,356
METHOD OF DRAWING
Walter Ernst, Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware
Original application March 27, 1939, Serial No. 264,311. Divided and this application August 28, 1939, Serial No. 292,271
3 Claims. (Cl. 113—45)

1. A method of drawing workpieces in presses having a drawing cylinder for operation of a drawing die, and a clamping cylinder, which comprises the step of admitting pressure fluid into the drawing cylinder and concomitantly therewith applying pressure fluid independent of said first-named pressure fluid for closing the escape of fluid from the clamping cylinder, clamping the



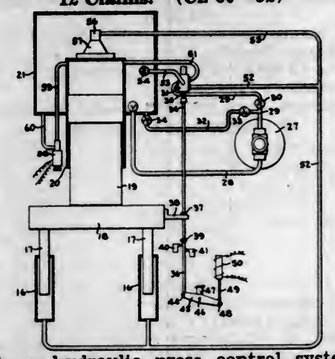
work piece hydraulically while performing the drawing operation, and relieving the hydraulic pressure by permitting the escape of fluid from the clamping cylinders instantly in response to the application of hydraulic pressure to reverse the drawing operation and retract the drawing die.

2,283,357
SELF-OILING PUMP JACK
Karl L. Finley, Ashland, Ohio, assignor to The F. E. Myers & Bro. Company, Ashland, Ohio, a corporation of Ohio
Application November 20, 1939, Serial No. 305,268
6 Claims. (Cl. 184—4)



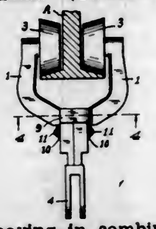
1. In an improved power head, the combination with a substantially oil-tight casing having a driven gear power transmitting mechanism mounted therein, of an oscillating shaft supported by the casing and extending therethrough with bearing means for said shaft in said casing, a reciprocating crank drivingly connected to said gear and said oscillating shaft within said casing, and oil distributing means for self-oiling the working parts of said mechanism including a rotating part, a channel on said crank and passageways to said casing bearing means, said rotating part including a driving shaft having means for permitting passage of lubricant lengthwise of said shaft and a member on said shaft for receiving oil carried there-along and for dropping said oil by gravity to said channel.

2,283,358
ELECTRICALLY CONTROLLED HYDRAULIC PRESS
Paul E. Flowers, Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware
Application August 31, 1939, Serial No. 292,934
12 Claims. (Cl. 60—52)



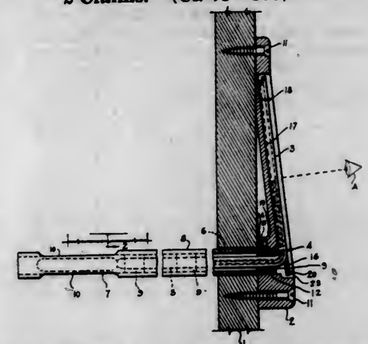
1. In a hydraulic press control system, the combination with reversible hydraulic motor means having a reciprocable ram and a source of pressure fluid therefor with a flow-control member for reversibly controlling the distribution of pressure fluid to said hydraulic motor means, of electrical means for actuating said flow-control member, a press control element interconnecting said flow-control member and said electrical means and being engageable by said ram, said press control element being adapted to vary the position of said flow-control member, a circuit energization controller connected to control the energization of said electrical means and operable by said control element, and means for rendering said controller effective to influence the energization of said electrical means in only one direction of motion of said control element for automatically starting a new working stroke at the end of the retraction stroke.

2,283,359
OVERHEAD CONVEYER TROLLEY
Lucien Gaboury, Detroit, Mich., assignor to Jervis B. Webb Company, Detroit, Mich.
Application April 20, 1939, Serial No. 269,039
6 Claims. (Cl. 198—177)



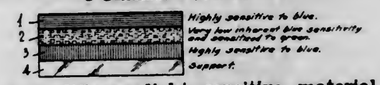
1. A trolley having in combination a pair of brackets, lower block portions of said brackets having surfaces adapted to fit together, members secured to and engaging said block portions and allowing sliding movement on said surfaces to bring said members into and out of engagement but retaining said block portions against movement out of a plane defined by sliding contact of said surfaces of said blocks, a load carrying member formed to interlock with said block portions to prevent relative sliding movement of said block portions.

2,283,360
INCLINED THERMOMETER
Charles F. Gedge, Springfield, Ohio, assignor to The Buckeye Incubator Company, Springfield, Ohio, a corporation of Ohio
Application August 14, 1939, Serial No. 290,049
2 Claims. (Cl. 73—375)



1. In a thermometer, a base having a substantially triangular cross-sectional contour from the front to the rear thereof, a longitudinally positioned recess in the face of said base solely for receiving the thermometer tube, an aperture in said base adjacent the end of said recess and in the thick portion of the triangular cross-section of said base, a thermometer tube mounted on said base within said recess and having a portion of the rigid tube stem extending rearwardly through said aperture, a protective sheath surrounding said rearwardly extending portion of said tube, said sheath having one end thereof extending into said aperture, and means on the rearward side of said base for engaging said sheath to lock the same in position within said aperture.

2,283,361
COLOR-PHOTOGRAPHIC MATERIAL
Paul Goldfinger, Brussels-Uccle, Belgium, assignor, by mesne assignments, to Chromogen, Incorporated, a corporation of Nevada
Application February 23, 1939, Serial No. 258,097
In Great Britain March 10, 1938
8 Claims. (Cl. 95—2)



1. A multilayer light sensitive material for color photography comprising a plurality of superposed silver halide emulsion layers predominantly sensitive to different parts of the spectrum, at least one silver halide emulsion layer being colored by a dyestuff which is not removable by ordinary photographic treating baths but which is selectively removable under the influence of a silver image and which transmits light rays to which the layer itself is predominantly sensitive, another of said layers superposed with respect to said colored layer being transmittant for and predominantly sensitive to light rays absorbed by said dyestuff but transmittant for and insensitive to light rays for which said colored layer is predominantly sensitive, said layers being basically of the same silver halide, so that they have substantially the same natural spectral sensitivity range, said colored layer having, before coloring, a speed so considerably lower than said superposed layer within said range, that the light rays within said range which are

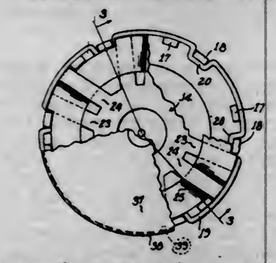
necessary for sufficient and thorough exposure of said superposed layer are not capable of producing any appreciable light impression in said colored layer.

2,283,362
SKI TROUSERS
Madeleine C. Hamilton, New York, N. Y.
Application November 28, 1940, Serial No. 367,514
3 Claims. (Cl. 2—227)



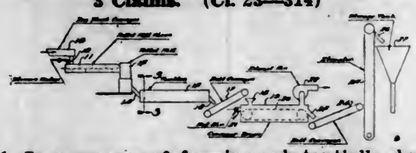
1. A garment comprising front and back panels having adjacent side edges forming side openings therebetween, pockets secured on the inside of the front panel adjacent the side edges thereof and with the pocket openings inside of said front panel, adjacent the side edges of said panel and accessible through said side openings, and separable closure means joining the side edges of said panels, said closure means being adapted to close the side openings of the garment and to conceal the pockets.

2,283,363
SLOW SPEED SELF-STARTING SYNCHRONOUS MOTOR
William L. Hansen and Ira N. Hurst, Princeton, Ind., assignors to Hansen Mfg. Company, Inc., Princeton, Ind., a corporation of Indiana
Application July 3, 1939, Serial No. 282,718
10 Claims. (Cl. 172—278)



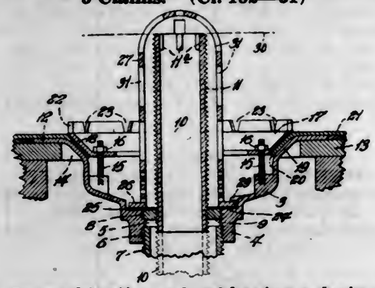
1. In a synchronous motor, a magnetic core, a magnetic field member mounted on one end of said core and having outer pole pieces disposed axially in a substantially cylindrical path, a second magnetic field member mounted on the other end of said core and having inner pole pieces disposed radially with their tips adjacent the tips of said outer pole pieces, a field energizing winding associated with said core, a rotor rotatably mounted adjacent said tips of said pole pieces, and a ribbon-like shading band undulating in and out of the alternate pole pieces to contact at least three sides of the alternate pole pieces but contacting only one side of the remaining pole pieces, whereby the alternate pole pieces are shaded.

2,283,364
PROCESS FOR AGGLOMERATING CARBON BLACK
Hilding Hanson, Charleston, W. Va., and Robert W. Skoog, Borger, Tex., assignors to United Carbon Company, Inc., Charleston, W. Va., a corporation of Delaware
Application April 29, 1938, Serial No. 205,138
3 Claims. (Cl. 23—314)



1. In a process of forming substantially dustless agglomerates of carbon black, the novel steps of extruding a paste of substantially equal parts by weight of water and carbon black to form columnar segments having smooth sides and rough and irregular ends, thereafter tumbling the wetted segments to form smooth substantially hemispherical ends thereon, and thereafter drying said tumbled segments.

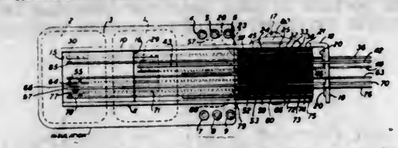
2,283,365
WATER LEVEL CONTROL ROOF DRAIN
John Heinkel, St. Louis, Mo., assignor to John C. Kupferle Foundry Company, St. Louis, Mo., a corporation of Missouri
Application May 31, 1940, Serial No. 337,956
5 Claims. (Cl. 182—31)



1. In combination, a bowl having a drain opening at its lower end, a drain pipe in communication with said opening, a bushing in said opening above the drain pipe, and a vertically extending tubular member adjustably secured in said bushing and adapted to be depended through said opening and into said pipe its entire length.

2,283,366
RELAY
Clarence N. Hickman, Jackson Heights, and Emory Lakatos, New York, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 4, 1941, Serial No. 396,520
7 Claims. (Cl. 200—93)

1. In a relay assembly, a core lamination having a pair of pole arms extending at right angles therefrom, a first relay coil surrounding one of said arms, a second relay coil surrounding the other of said arms, an armature lamination having a reed portion cooperating with said arms, a field lamination, a second armature lamination having a reed portion extending freely through said second relay coil and cooperating with said field lamination, two additional field laminations, two armature laminations having reed portions



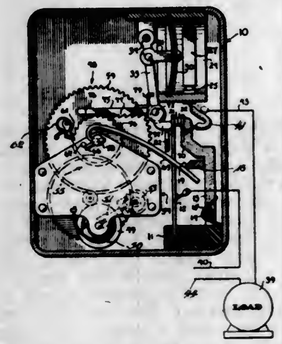
extending freely through said first relay coil and cooperating respectively with said additional field laminations, insulating laminations interposed between adjacent ones of said other laminations and contacts on said field and core laminations and on the reeds which cooperate therewith.

2,283,367
TABLECLOTH STRETCHER
Peter M. Hintz, Detroit, Mich.
Application June 17, 1939, Serial No. 279,632
2 Claims. (Cl. 45—24)



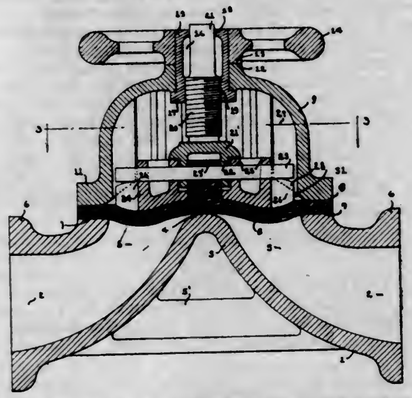
1. A stretcher for round lace table cloths and similar flat textile articles, comprising a single highly flexible ribbon of springy material having adjustable connection at its ends for joining the latter and presenting the ribbon of material in a hoop form, said ribbon being readily extensible into a flat length when its ends are disconnected and means carried by the ribbon of material for separably engaging the edges of a cloth or work to be stretched, said means comprising pin elements extending from an edge of said ribbon, and having loops slidably embracing said ribbon.

2,283,368
AUTOMATICALLY RECLOSING CIRCUIT BREAKER
Gifford I. Holmes, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application October 14, 1938, Serial No. 234,997
12 Claims. (Cl. 200—122)



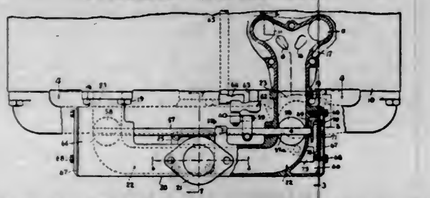
1. In an overload cut-out, in combination, an electric circuit, a pair of mating contacts in control of said circuit, thermostatic means operable to open the contacts in response to excessive heating of a portion of the electric circuit and to reclose the contacts a predetermined time thereafter, supplemental means movable by the thermostatic means from an initial position to a final position in which operation of the thermostatic means to reclose the contacts will be inhibited, and means adapted to return the supplemental means to initial position if the excessive heating of the portion of the electric circuit ceases before the supplemental means reaches its final position.

2,283,369
DIAPHRAGM VALVE
Oystein Jacobsen, Montgomery County, Ohio, assignor to The Duriron Company, Inc., Dayton, Ohio, a corporation of New York
Application September 16, 1939, Serial No. 295,320
3 Claims. (Cl. 251—24)



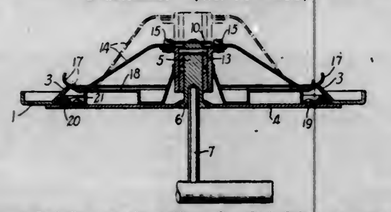
1. A valve for a conduit having inlet and outlet pipes in line, a weir interposed therebetween, a seat on the valve for receiving the edge portion of a diaphragm which diaphragm is adapted to contact the weir and to thereby close the valve, the central portion of said diaphragm being contained within a bonnet which is seated on said edge portion of the diaphragm, said bonnet being of a hollow cylindrical configuration, a plunger adapted to be moved longitudinally through the bonnet, said plunger terminating in a swivel bearing adapted to receive a rod which extends transversely of said bonnet, a backing member of circular configuration for said diaphragm rockably mounted on said rod, and teeth extending radially outward from said backing member and meshing with teeth which extend radially inwardly from said bonnet, said teeth serving in part to support the diaphragm in the open and closed valve positions of the backing member, said rod extending to a distance sufficient to contact a pair of the teeth which extend inwardly from the bonnet whereby the rod is prevented from moving in a radial direction with respect to the bonnet but is permitted to move in a longitudinal direction with respect to the bonnet as the plunger is moved through the bonnet whereby the backing member can assume a position such as to cause the diaphragm to clamp tightly on the weir when the valve is closed and yet the backing member is prevented from moving in the radial direction with respect to the bonnet during the excursions of the plunger.

2,283,370
INTERNAL COMBUSTION ENGINE
Edmund Jedrzykowski, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application October 9, 1940, Serial No. 360,448
11 Claims. (Cl. 123—180)



1. A gasoline-starting manifold system for Diesel engines comprising a cylinder head formed with two inlet passages, an inlet manifold having two outlet branches communicating with said passages and an air inlet branch, a valve positioned in each of said outlet branches, means for shifting said valves into closed and open positions, a liquid fuel carburetor mounted adjacent said manifold, said carburetor having a passageway formed therein for the inflow of air and the outflow of carbureted mixture, an air inlet conduit connecting the manifold at a point between the valves with the inlet side of the passageway through the carburetor, and an auxiliary carbureted mixture manifold connecting the outlet side of the conduit through the carburetor with each of the passages in the cylinder head for conveying carbureted mixture thereto.

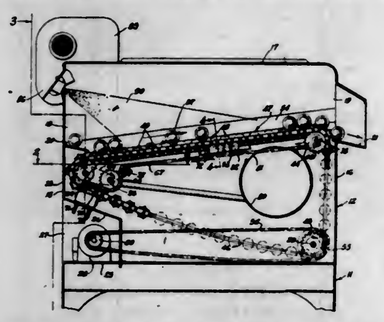
2,283,371
LATCH FOR HANDHOLE COVERS
Corydon M. Johnson, Freeport, N. Y.
Application May 22, 1940, Serial No. 336,523
3 Claims. (Cl. 70—168)



1. A latch construction for latching a cover to an angular frame having an inturned flange, comprising a post carried by and rotatable in the cover, a sleeve mounted on said post and slidable in relation thereto, means connecting the sleeve and the post together whereby when the post is rotated the sleeve will receive a sliding motion, resilient fingers carried by the sleeve and adapted to engage the inturned flange of the frame whereby when the sleeve is moved in one direction the fingers will be forcibly engaged with the flange and when the sleeve is moved in the other direction the fingers will be disengaged from the flange.

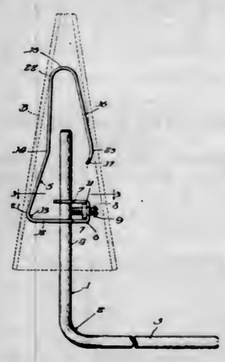
2,283,372
APPARATUS FOR TREATING FRUIT
Arthur F. Kalmar, Riverside, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application May 20, 1941, Serial No. 394,318
6 Claims. (Cl. 91—44)

5. In a fresh fruit handling apparatus, the combination of: a conveyor including an endless series of rollers disposed for conveying fruit along a given path with said fruit resting on said rollers in the valleys therebetween, a terminal portion of said path extending downwardly at a substantial angle; a dropboard at the end of said terminal portion of said path for receiving fruit from said conveyor; means for causing said end-



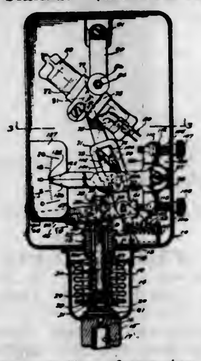
less series of rollers to travel along said path and past said dropboard; means causing said valleys between adjacent rollers of said conveyor to be supplied with fruit; and means for continuously applying reverse rotation to the rollers of said conveyor throughout their contact with said fruit at least while the latter is travelling along the terminal portion aforesaid of said path.

2,283,373
SPOOL HOLDER
Bert H. Krafft, Chicago, Ill., assignor, by direct and mesne assignments, to Emery La Kates, Newark, N. J.
Application July 5, 1940, Serial No. 344,063
6 Claims. (Cl. 242—130)



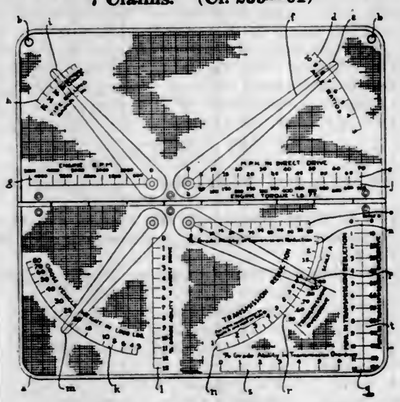
1. In a device of the kind described, the combination of a supporting member, a bobbin-supporting-element mounted thereon and comprising a single strip of yieldable material having one end portion thereof bent back upon itself to form a U-shaped portion having aligned openings formed in the legs thereof receiving said supporting member, and means for locking said member in said openings, one of the legs of said U-shaped portions being extended beyond the other and bent transversely thereto, said transverse part of said leg being concave and terminating in an inverted U-shaped portion having a free leg of less length than the concave portion.

2,283,374
SWITCHING MECHANISM
Carl G. Kronmiller, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application May 7, 1937, Serial No. 141,301
20 Claims. (Cl. 200—83)



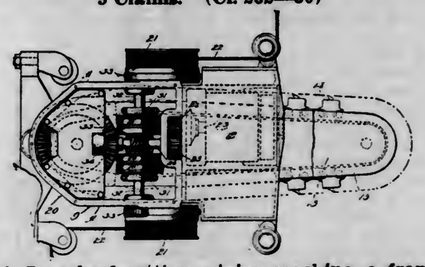
1. In a device of the character described, in combination, a member movable in response to changes in the value of a condition, switch means, a lost motion connection between said switch means and said member whereby the latter moves the former, said lost motion connection comprising a slot having two pins extending therethrough and a cam engaged on opposite sides by said pins, and means to vary the position of each of said pins in said slot independently of the other.

2,283,375
CALCULATOR
Fred B. Lautzenhiser, Chicago, and Salvatore Colacuori, Riverside, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application July 10, 1940, Serial No. 344,720
7 Claims. (Cl. 235—61)



1. A calculator having a face provided with a ground line divided into first and second scales, each marked with indicia, a third scale arranged in non-parallel relation to the ground line at the first scale portion thereof and including indicia, a fourth scale arranged in non-parallel relation to the ground line at the second scale portion thereof and including indicia, a pivoted pointer provided with a guide line and movable over the third scale to any selected index thereon, said guide line on the pointer representing a line projected from said index to be intersected by a line projected from an index on the first scale at right angles to the ground line, a second pivoted pointer provided with a guide line and movable over the fourth scale to any selected index thereon, said guide line on the second pointer representing a line projected from said index to be intersected by a line extended from the first intersection parallel to the ground line and by a line projected at right angles to the ground line from an index on the second scale.

2,283,376
KERF-CUTTING MINING MACHINE
Frank A. Lindgren, Western Springs, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application September 11, 1940, Serial No. 356,284
5 Claims. (Cl. 262—30)



1. In a kerf-cutting mining machine, a frame having a base plate slidable along the mine bottom, a motor mounted on said frame spaced vertically from said base plate, a horizontally disposed cutter bar having a cutter chain movable orbitally thereabout, said cutter bar having a relatively widened rearward portion extending between the side walls of said frame in spaced relation therewith to form a cuttings passageway opening to the rear end of the frame, and the sides of said cutter bar converging toward a relatively narrow portion extending beneath said motor and projecting toward the front end of the machine, means operatively connecting said motor with said cutter chain, and feeding mechanism for said machine driven from the rear end of said motor including gear reduction mechanism having a portion thereof recessed in the widened rear end portion of said cutter bar.

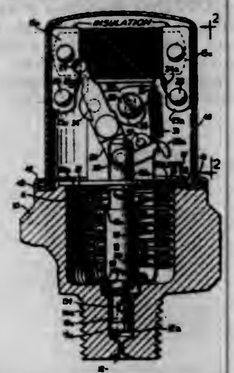
2,283,377
TRACTOR-ATTACHED IMPLEMENT
Alexus C. Lindgren, Cherry Valley, and Carl W. Mott, La Grange, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application September 25, 1940, Serial No. 358,251
20 Claims. (Cl. 97—50)



1. In combination, a tractor having a power plant, an implement positioned in trail-behind relationship to the tractor, means forming a pivotal connection between the implement and the rear of the tractor, a rockable member

mounted at the rear of the tractor so as to have a vertical movement in a portion substantially in vertical alinement with the pivot connection of the implement with the tractor, means connecting the tractor power plant and the rockable means, and means connecting the said portion of the rockable member and the implement for causing vertical movement of the said portion to effect adjustment of the implement.

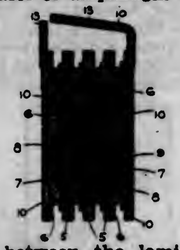
2,283,378
TEMPERATURE INDICATOR
Joseph I. Liner, Toledo, Ohio
Application May 20, 1939, Serial No. 274,859
5 Claims. (Cl. 201—48)



1. In a device of the class described, a bellows, a cup-shaped container of relatively rigid material to partially enclose the bellows and form a pressure chamber on the exterior thereof, entry means for the pressure chamber to place the chamber in communication with a source of pressure, a resistance fixedly attached to the container, stem means attached to the bellows and adapted to move longitudinally therewith under varying pressures in the pressure chamber, guide means adjacent the entry means for the stem to maintain straight line motion, a bell-crank pivoted on the end of the stem means adjacent the resistance to translate the longitudinal movement of the stem means into a transverse movement, a slide means for the resistance attached to one arm of the bell-crank, a fixed fulcrum in the path of the other arm to oscillate the bell-crank under the longitudinal movement of the stem means to move the slide means across the resistance to vary the impedance in an extraneous signaling circuit, and resilient means holding the second arm of the bell-crank in contact with the fixed fulcrum.

2,283,379
DRY BATTERY
Frank MacCallum, Birmingham, England, assignor to Maxolite Holdings Limited, London, England
Application October 20, 1936, Serial No. 106,645
In Great Britain September 9, 1935
5 Claims. (Cl. 136—131)

1. An electrolyte wafer or diaphragm for a dry battery including a plurality of flat pieces of pervious sheet material of a thickness of the order of 0.001 of an inch, some of the pieces being provided with a uniform layer of electrolyte in semi-solid form and the pieces being superimposed and compacted together in flat form before assembly in the battery so as to construct a laminated flat wafer or diaphragm with the electro-



lyte housed between the laminations of said wafer or diaphragm.

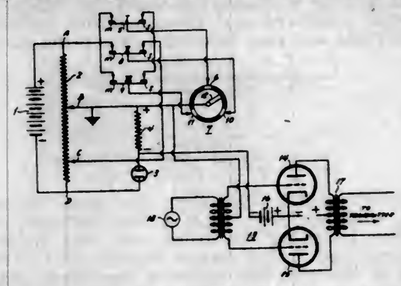
2,283,380
PACKAGED CAKE
John MacManus, Yonkers, N. Y., assignor to Cushman's Sons Inc., New York, N. Y., a corporation of New York
Original application February 13, 1939, Serial No. 256,121. Divided and this application June 5, 1939, Serial No. 277,415
4 Claims. (Cl. 99—171)



1. A packaged multi-layer cake comprising, in combination, superposed layers of ready-baked cake free from foreign edible material on their marginal edges and separated by edible confection which is normally plastic and flowable and all of which layers are coextensive in area, and an imperforate band snugly enclosing the border of the cake and conforming to the edges of said layers, said border-enclosing band having its inside surface in contact with the perimeters of the several layers of the cake and sealing the confection between the ready-baked layers by maintaining the confection from flowing past the peripheral edges of the ready-baked layers and out from its enclosed layer position in the cake, said band being transparent to present to view the sealed-in peripheral edge of the confection layer and enabling inspection of the character of the various layers while the band remains in place.

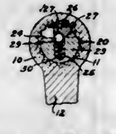
2,283,381
LOCKING CIRCUIT
George J. Maki, Elmhurst, Ill., assignor to Radio Corporation of America, a corporation of Delaware
Application August 24, 1940, Serial No. 354,033
4 Claims. (Cl. 178—52)

1. In signalling circuits, a gas tube having an extinguishing voltage materially lower than its striking voltage, a voltage source consisting of a potentiometer resistance, a transmitter key having a mark contact connected to a high potential point in said resistance and a space contact connected to a lower potential point therein, said transmitter key having a switch tongue connected to an intermediate potential point in said resistance, said gas tube having one electrode connected to a point in said resistance that is negative in respect to said lower potential point, and a resistance connected between the other electrode of said tube and said intermediate potential point, said potential points being selected on the first-mentioned resistance so that said tube conducts when the tongue is on the



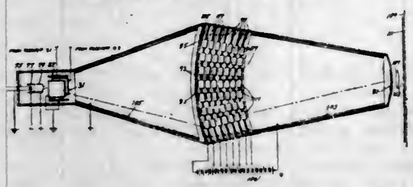
mark contact and extinguishes when it is on the space contact.

2,283,382
RATCHET MECHANISM
Siegmund Mandl, Milwaukee, Wis., assignor to Blackhawk Mfg. Co., Milwaukee, Wis., a corporation of Wisconsin
Application January 18, 1940, Serial No. 314,435
16 Claims. (Cl. 192—43.2)



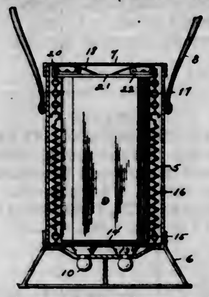
1. In combination, a head having an annular internal series of ratchet teeth and an arm for oscillating the same about the axis of annularity of said series, a member having a portion rotatable within said tooth series and provided with a transverse slot and a recess extending laterally of said slot, a tooth engaging dog slidable in said slot and having adjacent detents facing said recess, a ball reciprocable within said recess toward and away from said detents and being fixed against displacement longitudinally of said slot, a spring for urging said ball toward said dog, and means for shifting said dog along said slot to transfer said ball from one of said detents to another.

2,283,383
SIGNALING SYSTEM
Joseph T. McNaney, Baltimore, Md.
Application November 6, 1940, Serial No. 364,489
14 Claims. (Cl. 250—141)



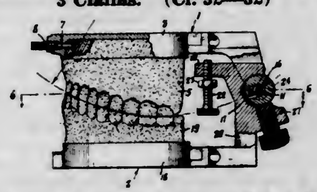
9. In combination, an evacuated container, means within said container for providing a plurality of independent electron streams the cross sections of which are representative, respectively, of message-characters, a fluorescent element within said container, and selection means whereby anyone of said independent electron streams may be caused to impinge upon said fluorescent element.

2,283,384
BATTERY RETAINER FOR ELECTRIC HAND LANTERNS
William M. Moxley, Kansas City, Mo.
Application May 8, 1941, Serial No. 392,570
6 Claims. (Cl. 240—10.63)



1. In a lantern of the type embodying a two part body consisting of a shell and a cover fitted upon the end of said shell, a lamp bulb receiving socket at that end of the shell remote from the cover, a lamp bulb in said socket, a battery dimensioned to be completely housed, concealed and protected within the said body and one end of which engages with said bulb, a bodily removable pressure plate spanning the opposite end of said battery and having ends projecting outwardly beyond said battery, a pair of flexible and elastic retaining members, each detachably engaged at one of its ends with one of said ends of the pressure plate and engaged at its other end with a portion of the shell, said retaining members lying within the shell substantially throughout their length and lying between the battery and the shell.

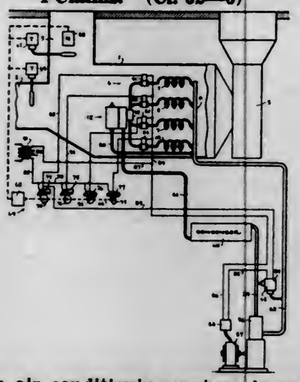
2,283,385
DENTAL ARTICULATOR
David Neustadt, New York, N. Y., assignor to Columbia Dentoform Corp., New York, N. Y., a corporation of New York
Application January 18, 1941, Serial No. 374,955
3 Claims. (Cl. 32—32)



1. A dental articulator comprising a lower-jaw member which has an upstanding projection, an upper-jaw member having depending means, said projection having a first cup-shaped recess, a first ball-member located in said recess and turnable in said first cup-shaped recess about a vertical axis and also about a horizontal axis, said upstanding projection having latch-means adapted to retain said first ball-member in said first cup-shaped recess, said first ball-member having a radial slot which has opposed walls and which is open at its outer end, a pivot-member connected to said depending means, said opposed walls having aligned radial supplemental recesses, said pivot-member having a supplemental ball-member which is located partially in said supplemental recesses, said pivot-member being located between said opposed walls, said upper-jaw member and said pivot-member and said

supplemental ball-member being movable in unison longitudinally back-and-forth relative to said first ball-member, said supplemental ball-member being movable relative to the first ball-member around a horizontal axis and a vertical axis, the walls of said supplemental recesses holding said supplemental ball-member against substantial movement relative to the first ball-member in a direction parallel to the axis of said pivot-member.

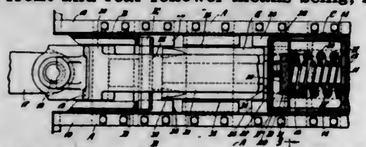
2,283,386
AIR CONDITIONING SYSTEM
Alwin B. Newton, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application January 24, 1940, Serial No. 315,365
4 Claims. (Cl. 62—6)



3. In an air conditioning system, in combination, a conditioning chamber through which a stream of air is passed to a conditioned space, a direct expansion cooling device located in said chamber, said cooling device compriisng a plurality of separate heat exchange conduits adapted to contain refrigerant and in heat exchange relationship with said air stream, said conduits having inlets and outlets, a source of liquid refrigerant, a single expansion valve connected to receive refrigerant from said source, a distributor receiving low pressure refrigerant from said expansion valve, said distributor comprising a chamber communicating with said expansion valve and with a plurality of restricted passages, individual connections between the outlets of said restricted passages and said heat exchange conduits whereby each restricted passage meters the supply of refrigerant from the expansion valve to a corresponding heat exchange conduit, a separate valve in each of said individual connections, an electromagnet for each of said valves, a separate switch for each of said electromagnets for energizing and deenergizing the same, a movable member for actuating the switches in sequence, a reversible electric motor for positioning said movable member, and means responsive to the cooling load for graduatingly controlling said reversible electric motor.

2,283,387
RAILWAY DRAFT RIGGING
Roland J. Olander, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application November 29, 1939, Serial No. 306,640
7 Claims. (Cl. 213—46)

1. In a railway draft rigging, the combination with front and rear stops; of a friction device including front and rear follower means engageable directly with said front and rear stops, the overall length of said friction device including said front and rear follower means being, in full

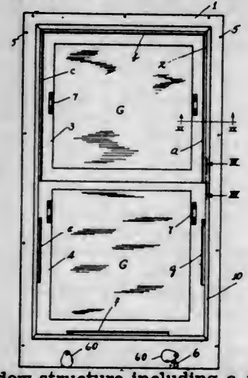


release condition, less than the space between said front and rear stops; a yoke enclosing said device including the front and rear follower means; and spring means bearing on the rear end of the yoke and opposing movement thereof during the entire buffing stroke of said yoke.

2,283,388
ANTIOXIDANT
Philip T. Paul, Naugatuck, and Louis H. Howland, Cheshire, Conn., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application June 28, 1939, Serial No. 281,530
4 Claims. (Cl. 260—800)

3. A method of preserving rubber which comprises incorporating therein a 4-phenylamino 1-alkyl 1,2-dihydrobenzofurane.

2,283,389
WINDOW STRUCTURE
Morgan B. Schiller, Sewickley, Pa., assignor to American Tubular Elevator Company, a corporation of Pennsylvania
Application February 26, 1940, Serial No. 320,885
3 Claims. (Cl. 189—64)



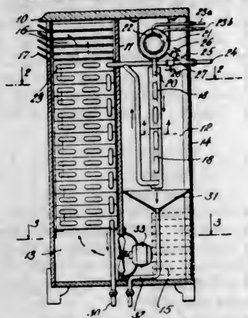
1. A window structure including a frame with an opening for a window sash, said frame including a seat extending peripherally of said opening, a window sash marginally engaging said seat, said frame carrying a cleat member arranged adjacent to said peripheral seat, and a plurality of elongate wedge strips each pivoted adjacent to one end to said sash for angular movement in the plane of the sash between a position in which each strip is wedged between said cleat member and the periphery of said sash, with the sash snugly secured to said seat in the frame, and a position in which each strip is removed from such wedged engagement, with the sash freed for removal from said seat and frame.

2,283,390
EGG HOLDING DEVICE
Lonnie Alfred Seldomridge, Long Beach, Calif.
Application December 14, 1938, Serial No. 245,591
5 Claims. (Cl. 65—22)



2. A device adapted to hold an egg, comprising a pair of cups hingedly connected at the rim thereof, a ring-like handle on each of the cups, said handles arching over the outer or bottom portion of each of the cups, said handles being immediately adjacent the cups and the outer surface of the cups serving as a closure for the inner part of the handles.

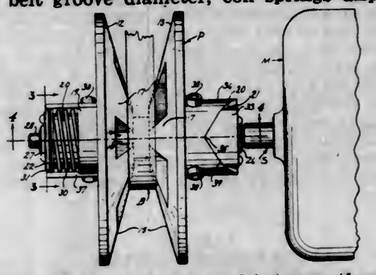
2,283,391
COOLING AND DEHUMIDIFYING APPARATUS
George R. Siefken, New York, N. Y.
Application April 11, 1940, Serial No. 329,029
3 Claims. (Cl. 62—140)



1. Apparatus for conditioning the air in a room, which comprises a cabinet, the interior of which is subdivided by a partition into a compartment and a passage, the passage having an inlet and an outlet at opposite ends and the compartment being open to the room, cooling units lying in the compartment and passage, respectively, and connected together, means for supplying a relatively cool medium to the compartment unit to flow therethrough and then through the unit in the passage, and a fan for drawing air from the room and passing it through the passage only, the arrangement being such that air circulating within the room has only convection circulation through the compartment.

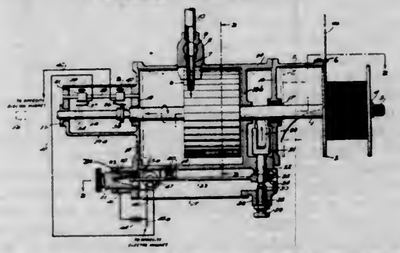
2,283,392
VARIABLE SPEED PULLEY
Richard H. Shadrick, Minneapolis, Minn., assignor to F. L. Dryg, Minneapolis, Minn.
Application December 5, 1940, Serial No. 368,599
4 Claims. (Cl. 74—230.17)

1. A variable speed pulley comprising a central sleeve, a pair of trunco-conical disks movably mounted on the sleeve and cooperating to form a belt groove of variable diameter therebetween, end members secured rigidly to the sleeve, cam members supported by the disks and end members and cooperating to produce oblique driving contacts and adjust the disks on the sleeve in response to changes in belt tension and thereby increase or decrease the effective belt groove diameter, the said cam members establishing said driving contact in a line spaced radially outward from the sleeve and within the mean effective belt groove diameter, coil springs disposed



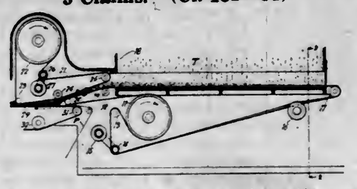
around the sleeve and braced between the disks and the said end members to yieldably urge the disks away from the ends of the sleeve, bearing rings on the sleeve and engaging the springs, and the said rings having annular projections engaging the end members to space the rings therefrom.

2,283,393
REELING OR SPOOLING DEVICE AND METHOD OF REELING WIRE AND OTHER MATERIALS
Abraham Simons, New York, N. Y., assignor to Hydrawmatic Machine Corporation, New York, N. Y., a corporation of New York
Application July 10, 1941, Serial No. 401,720
9 Claims. (Cl. 242—25)



1. A method of winding material on a reel, which consists in rotating said reel around a predetermined axis by a driving force, and moving said reel to-and-fro in the direction of said axis by respective components of said driving force which are oppositely inclined relative to said axis.

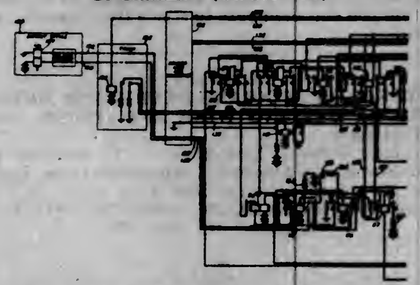
2,283,394
CIGARETTE MACHINE
Elberon D. Smith, Brooklyn, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey
Application July 9, 1938, Serial No. 218,273
5 Claims. (Cl. 131—84)



1. The combination with a cigarette machine

feed chute adapted to confine the tobacco falling therethrough in a shower, of means for continuously forwarding a cigarette paper strip, a traveling endless forwarding belt having a substantially level upper run extending underneath and beyond said chute to receive the shower of tobacco at substantially right angles, and having at one end of said level upper run a substantially straight run inclined downwardly toward said paper strip, thus acting to deliver a stream of tobacco to the paper strip at an angle thereto, and a traveling endless compressor belt adjacent the same end of said level upper run, having a substantially straight downwardly inclined lower run coacting with the downwardly inclined run of said forwarding belt to compress the tobacco thereon.

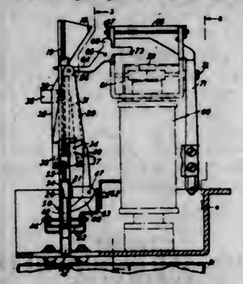
2,283,395
TELEPHONE SYSTEM
Walter B. Striekler, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 31, 1940, Serial No. 363,729
10 Claims. (Cl. 179—18)



1. In a digit registering system, a registering device, a plurality of individual registers in said registering device each capable of variably registering digits, pulse responsive means, means in said registering device variably responsive to said pulse responsive means for forming said individual registers into different combinations, each combination including different individual registers, a second registering device, and means in said first registering device for connecting the registers so formed into said combinations with the registers of said second registering device for setting the registers of said second registering device.

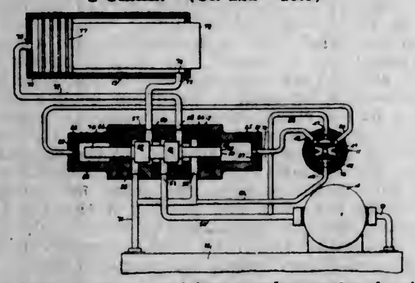
2,283,396
TELEPHONE COIN COLLECTOR
Charles C. Towne, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 24, 1940, Serial No. 354,092
1 Claim. (Cl. 194—1)

A coin hopper comprising a main coin channel for receiving deposited coins, a first branch channel and a second branch channel leading from said main channel, the said channels having opposed side walls, a cradle pivoted externally of said hopper and having a first laterally directed vane and a second laterally directed vane, said side walls adjacent the entrances to said branch channels being slotted to receive said vanes, said vanes being arranged on said cradle so that for a first position of said cradle said second vane blocks the coin entrance to said second channel and said first vane permits coin entrance to said first channel, while in a second position said first vane blocks the coin entrance to said first channel and permits coin entrance to said second channel, said cradle being biased to said first position whereby a first deposited coin is directed into said first channel, a pivoted coin trap in said first branch channel having laterally spaced projections for temporarily supporting said first deposited coin, a pivoted finger projecting into said first branch channel and biased to a normal position above said trap but adapted upon being struck by a deposited coin to be lowered to a position between said projections and held therebe-



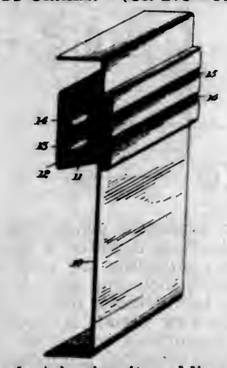
tween as long as said first deposited coin is supported by said trap, means actuated by the coin movement of said finger for moving said cradle to said second position whereby a second deposited coin is directed into said second channel, a collect chute communicating with said second channel for receiving said second deposited coin, and means for moving said trap to discharge said first deposited coin from said trap whereby said finger is restored to its normal position.

2,283,397
VALVE
Warren R. Tucker, Mount Gilead, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del., a corporation of Delaware
Original application October 4, 1937, Serial No. 167,184. Divided and this application August 22, 1938, Serial No. 226,099
1 Claim. (Cl. 121—46.5)



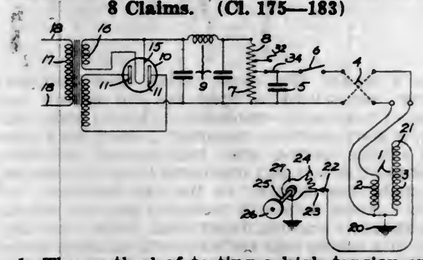
A valve unit comprising a valve casing having an exhaust port, an inlet port and a pair of service ports, a rotary valve member having a pair of diametrically-extending relatively-angled cross passages communicating with each other and adjacent laterally disposed cutaway portions connected with each other to form a balanced valve but not communicating with said cross passages, said valve member also having an axial exhaust passageway therethrough constantly communicating with said cross passages and exhaust port, a longitudinal passageway connecting the stem end of the valve to the exhaust passageway for equalizing pressure upon the stem end and opposite end of the valve member, said rotary valve member being operable to open communication between said inlet port and one of said service ports through a cutaway portion while establishing communication between said exhaust port and the other service port through the exhaust passage, an electric stall motor having its motor shaft rigidly connected to said motor valve member for selectively moving said valve member in one or the other direction, and means for limiting the rotation of said rotary valve member to a partial revolution in its opposite directions of motion.

2,283,398
ELECTRIC CIRCUIT MOLDING
Harry B. Van Deventer, New York, N. Y.
Application April 11, 1933, Serial No. 665,519
14 Claims. (Cl. 173—334.1)



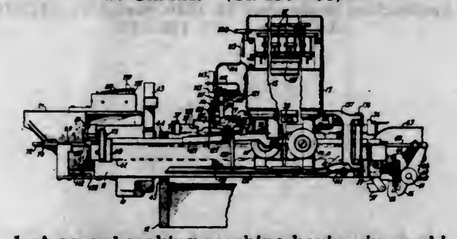
1. In an electric circuit molding, a plurality of members having grooves and adapted when assembled to form an elongated casing wherein the grooves of said members cooperate to form slots adapted to enclose conductors, said slots forming an entrance to said conductors, some of said members having portions of yieldable material forming engaging means, a sheet metal support having sloping side walls adapted to grip said means and hold said members in assembled position in said support, and conductors held in position in said casing.

2,283,399
MEANS AND METHOD OF TESTING SPARK COILS
Stanley S. Verney, San Francisco, Calif., assignor to Auto Electric Supply Co., San Francisco, Calif., a partnership composed of said Verney and Samuel Casper
Application October 19, 1940, Serial No. 361,887
8 Claims. (Cl. 175—183)



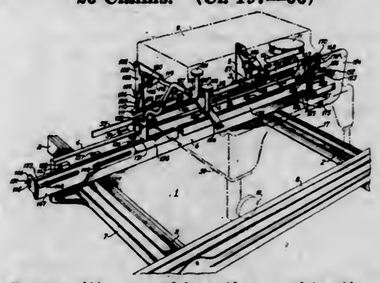
1. The method of testing a high tension spark coil such as an automotive spark plug coil and a magneto coil comprising the steps of charging a capacity to a predetermined potential, opposing the ends of the secondary of said coil across an air gap discharging said condenser through the primary of said coil as single surges, and varying the length of said air gap between surges to determine the maximum length of spark produced as the result of said surges.

2,283,400
RECORD MAKING MACHINE
William H. von Hacht, Bronxville, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application May 6, 1938, Serial No. 206,435
27 Claims. (Cl. 197—66)



1. A record making machine having in combination a type carriage movable in opposite directions transversely of the machine, type mechanism carried by said carriage, means for moving the carriage in a right hand direction during the operation of the type mechanism, power means for returning the carriage in a left hand direction, alternatively operative devices for stopping the carriage in its return movement in either of two different positions, means constructed for selective operation and each arranged to cause the power means to be thrown into operation to return the carriage and mechanism controlled by one of said means for rendering operative one of said stopping devices.

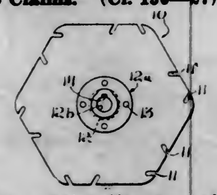
2,283,401
POWER DRIVEN CARRIAGE RETURN MECHANISM
Oscar J. Sundstrand, Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application June 22, 1937, Serial No. 149,571
26 Claims. (Cl. 197—66)



2. In a writing machine, the combination with a platen element, and a keyboard element, one of which is shiftable relatively to the other in letter spacing direction; a motor; and connections, including a normally disconnected clutch mechanism, between the motor and the movable element, to return the movable element in contra-letter spacing direction; of a control rod for the clutch mechanism, shiftable between predetermined limits on one of said elements; a series of arresters of graduated heights, adjustable along and spaced apart upon the control rod; a stop

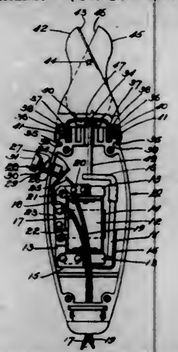
shiftable to various extents from a predetermined position on the other of said elements to coact with one or another of the arresters to arrest the relative return movements of the platen and keyboard elements; and manipulative means to impart varying extents of travel to the stop, to select a desired arrester.

2,283,402
THRESHER
Albert B. Welty, Moline, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application September 23, 1940, Serial No. 357,919
5 Claims. (Cl. 130—27)



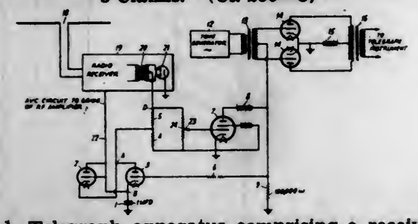
1. A cylinder construction comprising a shaft, a plurality of plates secured to the shaft at spaced points, the outer periphery of the plates having a plurality of pairs of converging recesses formed therein, and a plurality of bars each having a pair of flanges adapted to engage the recesses in said plates in such a manner that the outer edge of the flanges contacts the outer edge of the recess and the inner portion of the bars contacts the portion of the plate between the recesses, and said bars being secured to said plates by welding at their points of contact.

2,283,403
ELECTRIC SCISSORS
Edward J. Wiggins, Chicago, Ill., assignor, by mesne assignments, to General Transformer Corporation, Chicago, Ill., a corporation of Illinois
Original application September 24, 1940, Serial No. 358,364. Divided and this application December 7, 1940, Serial No. 368,962
3 Claims. (Cl. 30—228)



1. In an electrically operated scissors having a casing with an opening in its top portion, an electro-magnetic mechanism housed within said casing and connected to an electrical source of power, an armature positioned within said casing to receive vibratory action from the electro-magnetic mechanism, the upper end of said armature extending to the open top of said casing, a head comprising a bracket extending across the upper end of said armature and rigidly attached to said casing adjacent its top portion so as to be readily detachable therefrom, a stationary blade extending outwardly from said bracket, and a movable blade pivotally attached to said stationary blade, said movable blade having an extension engaging the upper end of said armature and adapted upon operation of said armature to be moved thereby.

2,283,404
GAIN CONTROLLED TELEGRAPH RECEIVER
Raymond A. Wood, Santa Ana, Calif., assignor to Radio Corporation of America, a corporation of Delaware
Application June 28, 1939, Serial No. 281,629
5 Claims. (Cl. 250—8)



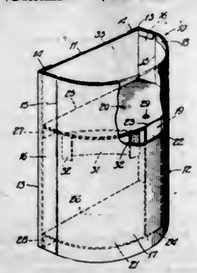
1. Telegraph apparatus comprising a receiver having a double diode detector, a signal responsive circuit for controlling the gain in said receiver, said circuit including means for deriving potentials from said detector during reception of intermittent marking signals, a capacitor having one electrode operatively connected to said circuit and the other electrode grounded, means including a unilateral conductance for feeding said potentials to said capacitor and for storing a charge therein, and means including a second unilateral conductance for at times permitting the reduction of said charge; an amplitude limiter device under control of said potentials, and means operable by said amplitude limiter for regulating the impedance value of said second unilateral conductance.

2,283,405
ELECTRIC SOCKET
Earl J. Atterbury, Chicago, Ill.
Application January 17, 1940, Serial No. 314,197
1 Claim. (Cl. 173—362)



In a socket, the combination of a two-part casing, comprising a body portion and a cap member releasably connected with said body portion, a body member mounted in said body portion of the casing with two contact members mounted thereon and insulated from said casing, an insulation member in the cap member, two other contact members mounted on said insulation member and insulated from each other and from the casing and each formed of sheet metal folded tightly about the insulation member, means for connecting lead wires to said second-named contact members, and resilient arms mounted on one of said sets of two contact members and extending longitudinally of the socket into position for operative wiping engagement with the other of said sets of two contact members when the casing members are moved longitudinally into operative position with respect to each other independently of rotary movement.

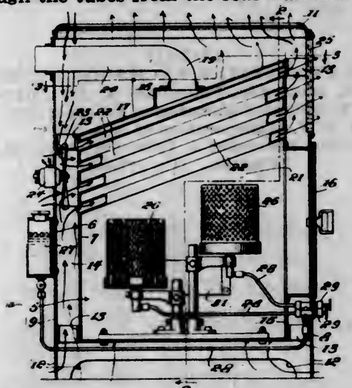
2,283,406
COLLAPSIBLE DISPLAY RECEPTACLE
Charles J. Bacon, Brooklyn, N. Y.
Application June 21, 1941, Serial No. 399,100
6 Claims. (Cl. 248—174)



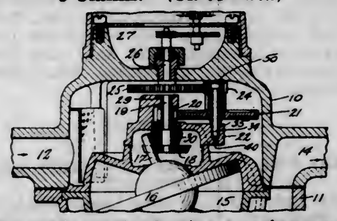
6. A collapsible display receptacle comprising a flat rigid rectangular rear wall, a normally flat flexible rectangular front wall of a width greater than the width of the rear wall, hinge means connecting the side ends of the front wall to the corresponding ends of the rear wall, upper and lower semi-circular shaped bracing panels hingedly connected to the inner side of the rear wall in spaced apart relation, a connecting panel having its ends respectively hingedly connected to the semi-circular shaped panels whereby manual swinging movement of the upper semi-circular shaped panel to a substantially horizontal position will cause the lower semi-circular shaped panel to move to a corresponding horizontal position and cause the free edges of both semi-circular shaped panels to forcibly engage the front wall and flex the front wall to a forwardly bowed shape under tension and frictionally hold the same under tension, and stop means for limiting the swinging movement of the semi-circular shaped panels to horizontal position.

2,283,407
HEATER
Bernard J. Bassett and Olaf E. Opichka, Lena, Wis., assignor to Arthur G. Mallien, Lena, Wis.
Application February 12, 1940, Serial No. 318,610
2 Claims. (Cl. 126—110)

1. A heater of the character described comprising a rectangular shaped casing shell having inlet apertures in the bottom and outlet slots in the top thereof, a second rectangular shaped shell mounted within the casing shell having the top, bottom and side walls spaced from the casing shell to form a heating chamber, an outlet pipe connected to the top of the inner shell and extending through an opening in the casing shell for the discharge of heated air and gases from the heating chamber, a plurality of air conducting tubes mounted in inclined position in the upper portion of the heating chamber and opening into the passages formed between the front and rear walls of the said shells, the said tubes being disposed so that their rear inlet ends are at a medial point with reference to the height of the casing shell while their forward outlet ends are in a position adjacent the top of the said casing shell, the said casing shell having air inlet openings in the rear wall in horizontal registration with the inlet ends of the tubes and having outlet openings in the front wall in registration with the outlet ends of the tubes, a motor driven blower fan mounted vertically in the rear passage between the shells in position to force air through the tubes from the rear wall inlet openings and the rear passage, and means mounted within the lower portion of the heating chamber for heating the air circulating through the said tubes, the said heating chamber having air inlet apertures in the lower portions of opposed side walls thereof.



2,283,408
BEARING FOR WATER METERS
Robert S. Bassett, Buffalo, N. Y.
Application December 1, 1939, Serial No. 307,133
5 Claims. (Cl. 73—272)



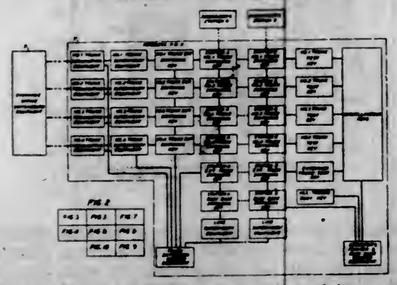
1. In a water meter having a casing containing water during the operation of the meter, a gear rotatably arranged in said casing and normally submerged in water, and a gear supporting member formed by a fixed part of said meter, the combination of a bearing for said gear, said bearing including a metal core having an outer shell of non-metallic bearing material firmly secured to the periphery of said core, said core also having an end part of reduced diameter and concentric with said outer shell, said gear supporting member having an aperture adapted to receive said reduced end of said core, and a portion of said shell, said end of said core extending into said aperture with a portion of said shell held in compression between said core and said aperture.

2,283,409
PREPARATION OF FELT
Boris Berkman, Chicago, Ill., assignor to Milkweed Products Development Corporation, Chicago, Ill., a corporation of Illinois
No Drawing. Application March 17, 1939, Serial No. 262,422
3 Claims. (Cl. 117—56)

2. The preparation of felt from milkweed floss

comprising soaking the floss in a dewaxing solution in the presence of a wetting agent, rinsing the floss with water, immersing and agitating the floss in a colloidal adhesive suspension of latex, removing all but a slight quantum of adhesive from the felted floss, and drying the resulting felt.

2,283,410
TELETYPEWRITER EXCHANGE SYSTEM
Allen R. Bonorden, Plainfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 1, 1939, Serial No. 307,028
7 Claims. (Cl. 178—2)



1. A communication system comprising a plurality of trunk circuits, a plurality of line circuits, and a group of operable switching means in engageable relation with each of said trunk circuits, said means in each of said groups having other means respectively arranged, when operated to engage one of said trunk circuits, to condition said one trunk circuit whereby a call may be established, to condition said one trunk circuit whereby a call may be answered, to condition said one trunk circuit for a communication connection between a plurality of said line circuits, and to condition said one trunk circuit for testing purposes.

2,283,411
PROCESS FOR PREPARING STEROL DEGRADATION PRODUCTS
Hermann Bretschneider and László Fári, Budapest, Hungary, assignors to the firm Chinoin Gyogyszer És Vegyészeti Termékek Gyára R. T. (Dr. Kereszty & Dr. Wolf) Ujpest, Hungary, a corporation of Hungary
No Drawing. Application June 24, 1939, Serial No. 281,050. In Hungary June 28, 1938
10 Claims. (Cl. 260—397.3)

1. Process for preparing degradation products of sterols comprising the oxidation of cholestenone by a member of the group consisting of: oxygen gas, air, in the presence of vanadium-pentoxide at temperatures of 120–160° C., and separating said sterol degradation products from the formed oxidation mixture.

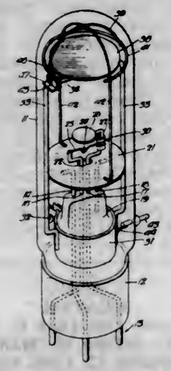
2,283,412
GOLF BAG SUPPORT
William H. Bright, Ozone Park, N. Y.
Application September 7, 1940, Serial No. 355,755
2 Claims. (Cl. 150—1.5)

1. A golf bag comprising in combination, a flexible bag body having a slit extending down from the top of the side walls thereof, a partition strip within said bag body and secured thereto adjacent the edges of the slit to divide the bag body into a golf club compartment and a golf bag support compartment, a golf bag support pivotally connected to said partition strip for swinging movement into and out of said second



compartment, and releasable fastener means for securing the edges of the slit together to close said pocket when the support is in position therein.

2,283,413
PHOTOTUBE AND METHOD OF MANUFACTURE
Robert J. Cashman, Evanston, Ill.
Application August 3, 1940, Serial No. 350,797
18 Claims. (Cl. 250—165)

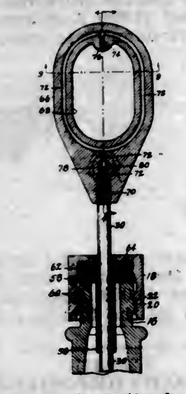


1. A vacuum phototube comprising an envelope having a projecting transparent window portion, an anode and a cathode at the base of said window portion, the cathode comprising a flat metallic disc rotatable within the envelope about an axis parallel to the disc and closely adjacent thereto.

2,283,414
LIQUID DISPENSING DEVICE
Claude Cooper, Watertown, and Charles W. Sherman, Boston, Mass.; said Sherman assignor to said Cooper
Application January 3, 1940, Serial No. 312,210
4 Claims. (Cl. 221—85)

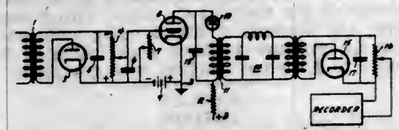
1. In a device for dispensing liquid from a reservoir onto a tooth brush, the combination of a liquid outlet and an abutment arranged one above the other in vertical alignment so that liquid may be discharged from the outlet onto the ends of the bristles when the back of the brush

rests upon the abutment, and means operated by vertical movement of said abutment under the



influence of the back of the brush to cause liquid to be released at said outlet.

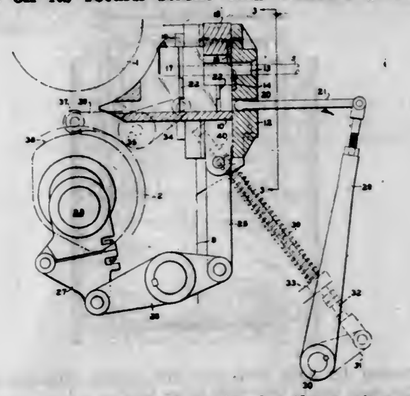
2,283,415
SIGNALING SYSTEM
John W. Cox, Berkeley, Calif., assignor to Radio Corporation of America, a corporation of Delaware
Application February 6, 1941, Serial No. 377,608
3 Claims. (Cl. 178—6.6)



1. In facsimile reception of current signals of constant frequency and variable time length, means for receiving said signals, means for converting the signals into alternating current having a frequency varying with the time length of the signals, means for converting the variable frequency current into current of varying amplitude, and means for recording the last-mentioned current.

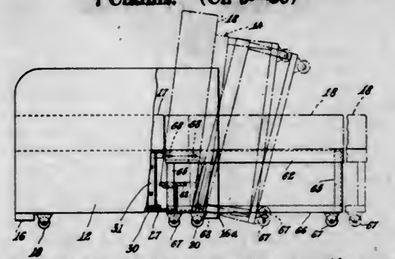
2,283,416
APPARATUS FOR FORMING METAL ARTICLES
William W. Criley, Cleveland, Ohio
Application March 15, 1940, Serial No. 324,161
4 Claims. (Cl. 80—3)

1. In a cut-off, feed, and roll forging die combination including rotatable cooperating forging roll dies defining a forging throat therebetween, a shear in fixed position materially in front of the dies and above the level of the throat and operable to cut off lengths of stock successively while the stock is in a position spaced in front of the dies, a feed table for receiving the cut-off lengths of the stock, by gravity, from the shear and for supporting them in a position in front of and for entry into the throat, a reciprocable feed device operative when driven for moving the cut-off lengths of stock successively from said position on the table, along the table and into the forging throat, a cam rotatable in fixed relation to one of the dies, a spring yieldably driving the feed device on its feeding stroke, and means operatively connecting the cam and feed device for moving the feed device by the cam on its return stroke and controlling the



movement of the feed device by the spring on the feed stroke of the device.

2,283,417
SOFA BED
Philip Cutler, New York, N. Y.
Application January 8, 1941, Serial No. 373,632
7 Claims. (Cl. 5—38)

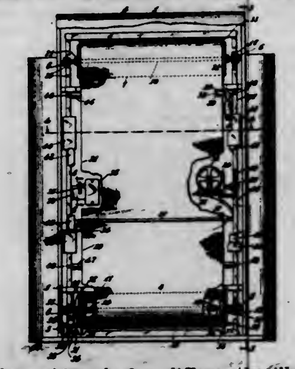


5. In a sofa bed having end supporting members, a main stationary frame secured thereto, a detachable rear upright frame at the lower end being swingably and slidably engageable with said supporting members, collapsible supporting means carried by said rear frame, locking means to detachably secure the upper portion of the rear upright frame to said supporting members and being operable by the opening and closing of said collapsible supporting means to permit the outward rotation of the rear frame to bring a portion of the supporting means into contact with the floor, the same serving as fulcrums to slide the rear frame upwardly to horizontal position adjacent the stationary frame, means to horizontally slide the rear frame to desired position adjacent the stationary frame.

2,283,418
DISPLAY DEVICE
Robert L. Daine, Greenwich, Conn., and Harold F. May, Valley Stream, N. Y., assignors to The Teleregister Corporation, New York, N. Y., a corporation of Delaware
Application February 4, 1938, Serial No. 188,672
Renewed September 6, 1939
10 Claims. (Cl. 40—53)

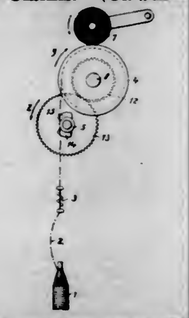
1. A device for displaying posters comprising a web, a housing, means for moving the web within the housing, means for arresting the movement of the web at predetermined periods to dis-

play said posters, means for illuminating the web while the web is in motion, and means con-



trolled by said web for differently illuminating the web while the web is at rest.

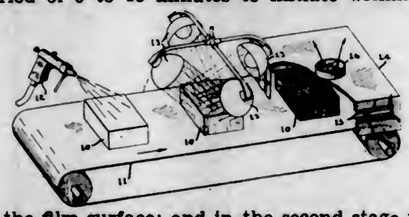
2,283,419
THREAD GUIDE FOR THREAD WINDING MACHINES
Heinrich Dersen, Krefeld, Germany
Application March 13, 1941, Serial No. 383,066
In Germany June 26, 1939
10 Claims. (Cl. 242—26)



1. A thread guiding mechanism for thread winding apparatus, comprising, in combination with the bobbin on which the thread is to be wound, a rotary drum mounted with its axis parallel to the said bobbin and formed with substantially helical intersecting grooves having opposite pitches, the improvement described herein, which consists in subsidiary thread guiding means in position for guiding the thread passing a point where said grooves intersect and to hold the same substantially in alignment with the groove engaged by the thread, such means consisting of an abutment upon which the drum-guided thread makes bearing, the point of bearing advancing longitudinally of the drum as the drum turns.

2,283,420
METHOD OF FINISHING ARTICLES
Folsom E. Drummond and William A. Waldie, Dayton, Ohio, assignors to New Wrinkle, Inc., Dayton, Ohio, a corporation of Delaware
Application July 19, 1939, Serial No. 285,406
2 Claims. (Cl. 117—41)

2. A 2-stage method of drying coating films to a hard wrinkle finish comprising in the first stage the steps of thoroughly cleaning the surface of an article to be finished, applying thereon a coating composition containing wrinkle drying oil as a film forming constituent, and subjecting the coating film to infra-red radiation of between 7200 and 14,000 Angstrom units for a period of 5 to 15 minutes to initiate wrinkling

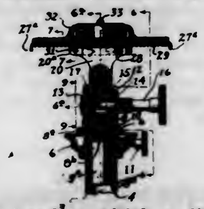


of the film surface; and in the second stage the step of drying the coating film by infra-red radiation of over 14,000 Angstrom units in a current of air to set the film to a hard wrinkle finish.

2,283,421
METHOD AND COMPOSITION FOR DEGREASING SKINS
Fritz-Carl Castendyk, Mattapan, Mass.
No Drawing. Application January 20, 1939, Serial No. 252,041
10 Claims. (Cl. 149—2)

1. The method of degreasing pickled animal skins which comprises drying the skins to remove excess moisture, and afterward agitating them with liquid hydrocarbon grease solvent mixed with volatile alkali, water solution of sulphonated oil, and sulphonated product of the condensation reaction of fatty acids containing a substantial quantity of the C_{12} and C_{14} acids with a monoamine, the amount of alkali being sufficient to cause the mixture to have a pH value of from above 2 to 2.5 when reacting with the skins.

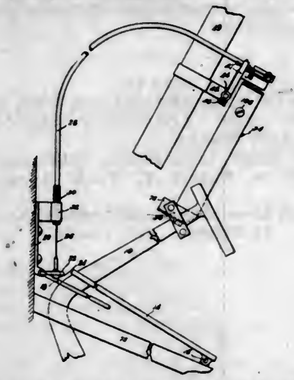
2,283,422
TRIPOD
George H. Chamberlain, Jr., San Jose, Calif.
Application November 4, 1937, Serial No. 172,756
1 Claim. (Cl. 248—186)



In a tripod head in which a dial base has a dial thereon and in which a camera-supporting means has a spindle rotatably adjustable about a vertical axis in said dial base, said means having an annular shoulder, and an index ring member having an index adapted for co-operation with said dial and having releasable frictional engagement about said supporting means and being rotatably adjustable thereabout so as to permit setting the index ring member independently with respect to the supporting means and the dial, said index ring member being arranged between and in complete engagement with said annular shoulder and said dial so as to afford bearing engagement therebetween.

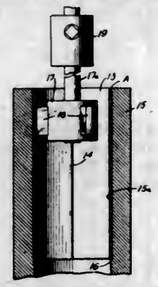
2,283,423
CLUTCH CONTROL DEVICE
Harold E. Clarke, West Somerville, Mass.
Application August 23, 1940, Serial No. 353,856
10 Claims. (Cl. 192—.01)

1. In a mechanism for automatically controlling the engagement of a motor vehicle clutch, dash pot means comprising a cylinder and a plunger member cooperating therewith relatively movable responsive to movement of the clutch whereby said dash pot means acts to retard the engagement of the clutch, means to variably regulate the rate of retardation by restricting the escape of fluid from the dash pot chamber comprising a valve member associated with said



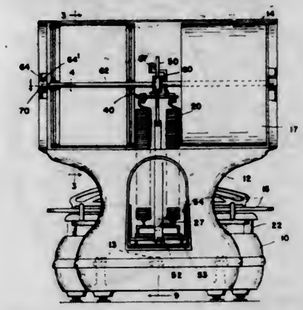
plunger member and movable relatively thereto, one of said members having a single escape passage and the other of said members having a pair of escape passages and control means for causing relative movement between said members to bring said single passage into communication with one of said pair of passages or to close said single passage when intermediate said pair of passages.

2,283,424
CYLINDER LINER SLEEVE
Archie T. Colwell and Herbert H. Engemann, Cleveland, Ohio, assignors to Thompson Products Incorporated, Cleveland, Ohio, a corporation of Ohio
Application March 20, 1939, Serial No. 262,918
5 Claims. (Cl. 309—3)



3. An elongated liner sleeve for cylinder comprising an end-flanged cylindrically shaped thin walled body member formed of nitrided resilient sheet metal steel of uniform thickness and having a straight open cleft throughout its length formed by the spaced faces on adjacent edges of said sheet metal, said spaced faces being arranged in angular relation to the longitudinal axis of said liner, the circumferential length of the body member being less than the circumference of a selected cylinder to be lined therewith, said liner being contractible into abutment of the cleft defining faces to an outside diameter less than the diameter of the selected cylinder for free insertion into the cylinder, and said body member in a contracted state exerting an expanding force tending to reclaim its free state size.

2,283,425
WEIGHING SCALE
Carl L. Conners, Louisville, Ky., assignor to Walter F. Stimpson, Louisville, Ky.
Application April 1, 1938, Serial No. 199,488
1 Claim. (Cl. 265—38)



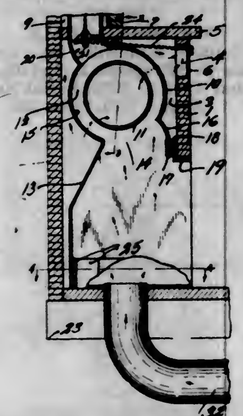
In a weighing scale of the cylinder-computing type, a housing comprising a hollow base and a hollow column connected to and upstanding from the base but separable therefrom, and a chart housing carried by the column, load counterbalancing means housed at least partly within said column, a lever system housed at least partly within said base, load receiving means supported above said base and carried at least partly by said lever system, a rotatable cylinder-type weight indicating chart within said chart housing, formed in a plurality of axially spaced sections having a gap therebetween, said gap being aligned with the hollow column, actuating means extending through said column and connecting the lever system to said chart, supporting means for said counterbalancing means carried entirely by the base and rigidly held thereby against movement in all directions and extending upwardly through and independently of said column into the gap in said chart to support said counterbalancing means from above and independently of the column, said counterbalancing means being connected to the lever system.

2,283,426
HAIR CURLER
James K. Crotts, Winston-Salem, N. C.
Application March 4, 1941, Serial No. 381,743
7 Claims. (Cl. 132—41)



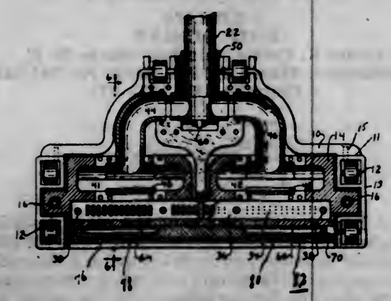
1. A hair curling device of the class described comprising a plurality of clamping jaws hingedly connected together, each jaw having a diverging finger-engaging lip at one end, spring means carried by the lips for spreading the lips apart and closing the jaws together, the outer ends of the jaws having inturned flanges to provide abutments for said spring means, means for winding hair about the jaws and for holding the hair in this wound position, said spring means having an aperture, and said last mentioned means passing through said aperture.

2,283,427
FIREPLACE
William A. Disotell, Spokane, Wash.
Application December 2, 1940, Serial No. 368,233
2 Claims. (Cl. 126—121)



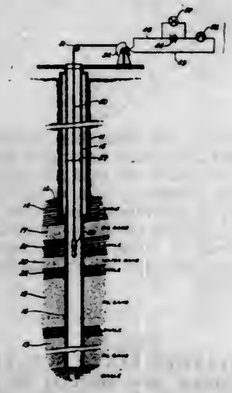
1. In a fireplace, a body defining a firebox open at its front and an air chamber over the firebox provided with an air outlet adjacent its upper end, a drum extending horizontally in the air chamber and having an upper outlet and a lower inlet, a smoke pipe leading from said drum about the outlet, a lining for the firebox constituting a reflector and having side walls and a rear wall united to the drum along marginal edges of the inlet of the drum, a front wall extending downwardly from the drum along the front edge of the inlet of the drum, a supporting bar carried by the front wall of the body along the top of the firebox and provided with an upstanding inner flange, and a supporting strip carried by the inner flange of said bar and having a channeled portion receiving the lower portion of the front wall of the lining to support the same and allow for expansion and contraction.

2,283,428
NOZZLE FOR VACUUM CLEANERS
Philip B. Ellis, Ridley Park, Pa.
Application October 10, 1940, Serial No. 360,565
11 Claims. (Cl. 15—155)



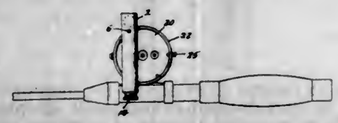
1. A vacuum cleaner nozzle comprising a plurality of openings formed therein leading to the underside thereof, a swivel having openings therein corresponding to and at all times communicating with the openings in said nozzle, a valve connected to a source of suction and to said swivel and normally establishing free communication between said openings and said source of suction, said valve and said swivel being rotatable as a unit about an axis parallel to the plane of the surface to be cleaned without interrupting the suction through any of said openings, said valve being also independently rotatable about an axis substantially at right angles to the axis of rotation of said swivel for concentrating the suction in at least one of the openings in said swivel and through the corresponding opening in said nozzle.

2,283,429
METHOD OF AND APPARATUS FOR DETERMINING THE LOCATION OF WATER STRATA IN WELLS
George H. Ennis, Long Beach, Calif., assignor of one-half to Robert V. Funk, Long Beach, Calif.
Application December 17, 1934, Serial No. 757,898
11 Claims. (Cl. 73—51)



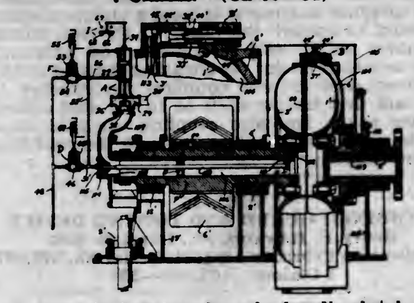
1. In a method of determining points of entrance of a fluid into a well, the steps of: distributing a charging material of predetermined light transmitting qualities in a selected portion of said well; causing a leakage of fluid into said well to occur; and determining the light transmitting qualities of the material at spaced points along said selected portion of said well.

2,283,430
FLASHLIGHT
Palmer E. Frettem, Estherville, Iowa
Application July 21, 1941, Serial No. 403,424
5 Claims. (Cl. 240—6.4)



1. A flash light for attachment to the end of a reel on a fishing rod or the like, comprising a cylindrical casing for storage batteries, a light bulb socket extending radially from said casing adjacent one end thereof, a light bulb extending from said socket, an elongated shade extending endwise from said socket and mounted thereon, and means to mount said casing on said end of the reel to extend alongside said end with the shade extending lengthwise over said reel parallel therewith.

2,283,431
HYDRAULIC CLUTCH CONTROL SYSTEM
Emil R. Gasser, Buffalo, N. Y., assignor to Farrel-Birmingham Company, Incorporated, Ansonia, Conn., a corporation of Connecticut
Application February 10, 1941, Serial No. 378,325
7 Claims. (Cl. 60—54)



1. A control system for a hydraulic clutch provided with a fluid inlet valve and a fluid dumping valve, comprising electrical means controlling the opening of the dumping valve and coincidental closing of the inlet valve, an electrical circuit for said electrical means and a timing relay controlling said circuit, a switch operated by the closing movement of the inlet valve, a main relay, and an energizing circuit for said timing relay conjointly controlled by said inlet valve operated switch and said main relay.

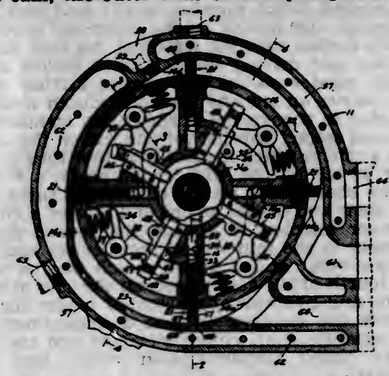
2,283,432
PISTON AND PISTON RING
Manfred Gerlach, Ak-En-on-the-Elbe, and Walter Gerecke, Dessau, Germany, assignors to Junkers Flugzeug-und-Motorenwerke A. G., Dessau, Germany, a corporation of Germany
Application September 9, 1940, Serial No. 356,082
In Germany July 12, 1939
9 Claims. (Cl. 309—33)



9. A piston for an internal combustion engine comprising a piston body, a head member for said body and cooperating therewith to define a groove extending peripherally of said body, a closed fire ring member, and at least one of the two named members being deformable within its elastic limit into conformity with the shape of the other member whereby one member may be slipped over the other to seat said ring member in said groove.

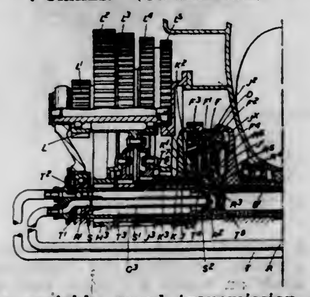
2,283,433
ROTARY INTERNAL COMBUSTION ENGINE
Charles S. Gross, Long Beach, Calif.
Application October 21, 1940, Serial No. 362,113
5 Claims. (Cl. 123—16)

1. In a rotary internal combustion engine, a casing, a rotor assembly therein having a plurality of radial pistons of a blade-like character, said assembly comprising a frame furnished with guides to support said pistons for radial movement, rocker arms pivoted to said frame, each of said rocker arms being in a follow-up relation to said piston, spring means operatively connecting each said rocker arm with said frame to cause such rocker arm to exert a follow-up pressure upon the inner end of the piston which it engages, said casing having internal peripheral cam portions along which the outer ends of said pistons travel, central nonrotatable multiple cam means mounted on said frame, a plurality of radially movable plungers carried by said frame and having inner ends acted upon by said multiple cam, the outer ends of said plungers being



individually in a follow-up relation to said rocker arms at the same sides of their pivots as said pistons, and adjustable wear take-up means between said plungers and rocker arms, there being intake, compression, firing, and exhaust chambers between the rotor assembly and the internal periphery of the casing and ports to control the movement of fuel and air into and from said chambers.

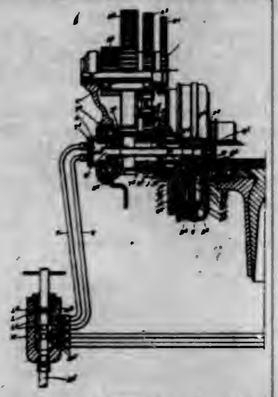
2,283,434
VARIABLE RATIO TRANSMISSION MECHANISM
Frank Bernard Halford, Edgware, and Benjamin William Barlow, London, England, assignors to D. Napier & Son Limited, London, England, a company of Great Britain
Application December 15, 1941, Serial No. 423,122
In Great Britain November 6, 1940
7 Claims. (Cl. 230—114)



1. In a variable speed transmission mechanism for the purpose indicated, the combination of a driving shaft on which are four gear wheels of different sizes, at least two impellers forming the separate stages of a supercharger, two coaxial shafts on which the impellers are respectively mounted, a set of two oppositely directed cone clutch members connected together and to the shaft of the one impeller, a second and similar set of two oppositely directed cone clutch members connected together and to the shaft of the second impeller, a hollow shaft which passes through both coaxial impeller shafts and carries

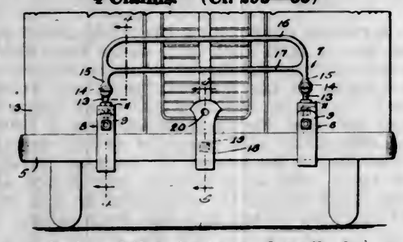
on one end thereof a cone clutch member adapted to engage one of the clutch members in the first impeller set and has on the other end a pinion which meshes with one of the gear wheels on the said driving shaft, a second hollow shaft which rotates on the said first hollow shaft and like that shaft passes through both coaxial impeller shafts, this second shaft carrying on one end thereof a clutch member adapted to engage the second clutch member in the said first impeller set and having on the other end a pinion which meshes with the second of the gear wheels on the said driving shaft, a third hollow shaft which rotates on the said second driving shaft and carries on one end thereof a clutch member adapted to engage one of the clutch members in the said second impeller set and has on the other end a pinion which meshes with the third of the gear wheels on the said driving shaft, a fourth hollow shaft which rotates on the said third hollow shaft and carries on one end thereof a clutch member adapted to engage the second clutch member in the said second impeller set and has on the other end a pinion which meshes with the fourth of the gear wheels on the said driving shaft, and hydraulically actuated means for effecting the engagement and disengagement of the separate shaft clutch members and the impeller clutch members with which they cooperate.

2,283,435
VARIABLE RATIO TRANSMISSION MECHANISM
Frank Bernard Halford, Edgware, and Benjamin William Barlow, London, England, assignors to D. Napier & Son Limited, London, England, a company of Great Britain
Application December 15, 1941, Serial No. 423,123
In Great Britain November 6, 1940
7 Claims. (Cl. 230—114)



1. In a variable speed transmission mechanism for the purpose indicated, the combination of a driving shaft on which are three gear wheels of different sizes, at least one impeller on a shaft, a set of two oppositely directed cone clutch members connected to the impeller, a second and similar set of two oppositely directed cone clutch members connected to a hollow shaft which carries also a cone clutch member adapted to engage one of the clutch members in the said impeller set, a second shaft which runs through the said first hollow shaft and carries at one end thereof a clutch member adapted to engage the second of the clutch members in the said impeller set and at the other end a pinion which meshes with one of the gear wheels on the said driving shaft, a third shaft rotatable on the said second shaft and carrying at one end thereof a clutch member adapted to engage one of the two clutch members in the said second set and on the other end a pinion which meshes with one of the gear wheels on the said driving shaft, a fourth shaft rotatable on the said third shaft and carrying at one end thereof a clutch member adapted to engage the other of the two clutch members in the said second set, and hydraulically actuated means for engaging the said clutch members and thereby coupling the impeller to the said first hollow shaft or to the said second hollow shaft, and also coupling the said third or the said fourth hollow shaft to the said first hollow shaft.

2,283,436
COMBINED GUARD AND TOWING DEVICE
Henry E. Hawkins, Sr., Houston, Tex.
Application February 14, 1941, Serial No. 378,987
4 Claims. (Cl. 293—55)



1. A device of the character described comprising, a pair of clamps adapted to be secured in spatiality to the bumper of a motor vehicle, a member disposed between said clamps, detachable devices pivotally carried by said clamps respectively and pivotally connected to said member for maintaining the latter supported between said clamps for guarding said vehicle, a guard disposed between said clamps and adapted to be detachably connected to said bumper and coacting with said member to guard said vehicle, said guard detachable from said bumper for attachment to the bumper of an adjacent vehicle, one of said devices being detachable from one of said clamps for connection to said guard whereby to dispose said member in connected relation between said vehicles to constitute a towing means for said vehicles.

2,283,437
SULPHONATED ORGANIC COMPOUNDS AS CAPILLARY-ACTIVE MEDIA
Winfrid Hentrich, Duesseldorf-Reisholz, Carl Albert Lainau, Duesseldorf, and Wilhelm Jakob Kaiser, Duesseldorf-Benrath, Germany, assignors, by mesne assignments, to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio
No Drawing. Application August 29, 1935, Serial No. 38,438. In Germany August 29, 1934
24 Claims. (Cl. 260—457)

1. A capillary-active compound, a sulphonation product of a saturated organic compound containing at least 12 carbon atoms, at least 2 carbon rings and one free hydroxyl group joined to one of said rings.

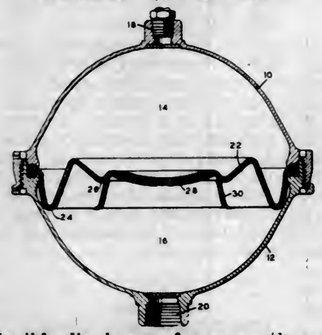
18. The process of preparing compounds having capillary active properties which comprises hydrogenating an organic compound containing at least 12 carbon atoms, at least 2 carbon rings and one free hydroxyl group joined to one of said rings, and then sulphonating said hydrogenated compound.

2,283,438
CAPILLARY ACTIVE COMPOUND AND METHOD OF PRODUCING THE SAME
Winfrid Hentrich, Duesseldorf-Reisholz, Carl Albert Lainau, Duesseldorf, and Wilhelm Jakob Kaiser, Duesseldorf-Benrath, Germany, assignors, by mesne assignments, to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio
No Drawing. Application February 12, 1936, Serial No. 63,554. In Germany February 13, 1935
27 Claims. (Cl. 260—457)

1. The process of producing capillary active materials which comprises hydrogenating a compound composed of an aromatic nucleus having attached thereto a non-aromatic hydrocarbon radical containing at least three carbon atoms, and a hydroxyl radical, and then introducing a hydrophile radical into the hydroaromatic nucleus by replacement of the said hydroxyl radical.

9. A capillary active agent comprising a perhydrogenated aromatic hydrocarbon nucleus of not more than 3 rings having attached thereto through a carbon to carbon bond a non-aromatic hydrocarbon radical containing at least six carbon atoms, and a saturated radical containing a hydrophile group which radical is attached to an alicyclic ring of said nucleus.

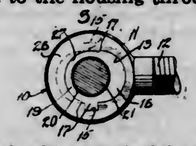
2,283,439
ACCUMULATOR DIAPHRAGM
Kenneth R. Herman, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application December 21, 1940, Serial No. 371,077
4 Claims. (Cl. 138—30)



1. A flexible diaphragm for separating gas and liquid in a fluid pressure accumulator comprising a sheet of flexible, impervious, rubber-like material annularly corrugated so as to flex, without substantial stretching, into either half of substantially a sphere in which the diaphragm is diametrically positioned, said diaphragm having a plurality of small raised ribs on its liquid contacting surface, said ribs, when the diaphragm is in contact with the walls of the liquid chamber of the accumulator, providing drainage paths extending to the liquid outlet whereby trapped liquid pockets may be fully drained when emptying the accumulator of liquid.

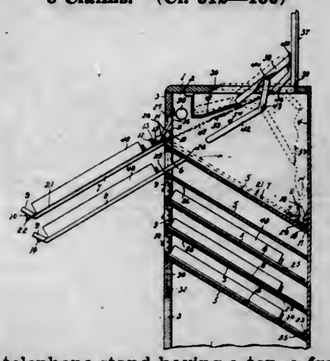
2,283,440
RESILIENT JOINT CONSTRUCTION
George H. Hufferd, Detroit, Mich., assignor to Thompson Products Incorporated, Cleveland, Ohio, a corporation of Ohio
Application December 4, 1940, Serial No. 368,465
7 Claims. (Cl. 287—85)

1. A joint construction comprising a housing, a resilient deformable bushing in said housing, a stud rotatably mounted in said bushing and tiltable relative to the housing through interparticle



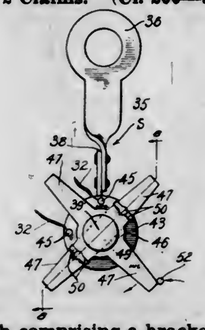
flow of the bushing material, and means partially confining said bushing material against free axial and circumferential flow to maintain a fixed tilting center for said stud.

2,283,441
TELEPHONE STAND
Garniss W. Hunter, Columbus, Ohio
Application January 9, 1939, Serial No. 250,031
8 Claims. (Cl. 312—186)



1. A telephone stand having a top, a front and a shelf, a telephone directory slide held on said shelf, said top having an opening, a hinged lid for said opening, a plate connected to said lid to lie beneath said top when the lid is closed, a connection between said slide and said lid by virtue of which said lid is raised when said slide is pulled out, and a plate guide mounted within the stand for directing the movements of the plate while the lid is being opened and closed.

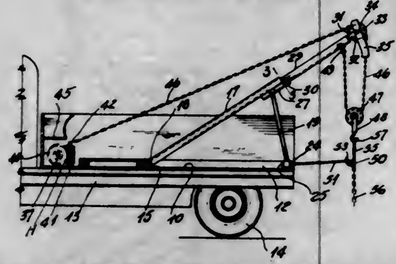
2,283,442
PERIODIC SWITCH
Claud J. James, Milwaukee, Wis., assignor to Cyclite Company, Inc., Milwaukee, Wis., a corporation of Wisconsin
Application May 31, 1940, Serial No. 338,280
2 Claims. (Cl. 200—30)



1. A switch comprising a bracket adapted to be mounted adjacent a wheel at one side thereof,

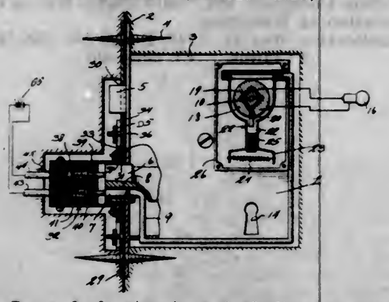
a bearing carried by said bracket, a shaft extending through said bearing and rigidly secured with a portion projecting from the bearing and provided with a head, a disc of insulation about said shaft secured in a fixed position thereon, stationary contacts carried by said disc and spaced from each other circumferentially thereof, a movable disc of insulation rotatable about said shaft and having radiating arms, a contact carried by the movable disc and grounded on said shaft, and means for intermittently turning the movable disc to alternately move the contact thereof into and out of engagement with the contacts of the stationary disc during rotation of a bicycle wheel.

2,283,443
WRECKING CRANE
Cletus A. Klein, Caro, Mich.
Application June 15, 1940, Serial No. 340,826
10 Claims. (Cl. 212—142)



1. In combination with a truck having a body, a sectional boom channel-shaped in cross section, hingedly mounted in said body and including inner and outer sections, legs pivotally connected to the inner section and foldable into the marginal limits thereof when the boom is in folded position, sockets in the body and adapted to accommodate said legs when the boom is in raised position, a socket in the outer end of the inner boom section and adapted to receive said outer section, and means for limiting the inward movement of said outer section in said socket.

2,283,444
KEYHOLE LIGHT
Arthur R. Koehler, Overland Park, Kans.
Application April 27, 1940, Serial No. 332,054
5 Claims. (Cl. 240—2.13)



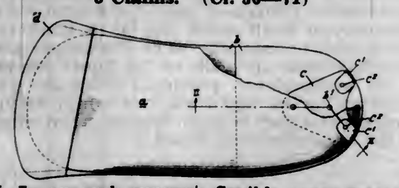
1. In a lock structure including a metallic housing having a keyhole opening, a bolt and a keeper plate for and having an opening to receive the bolt, an electric current receptacle secured to the back of said keeper and having a pair of electric terminals directed toward said opening one of which is adapted to be engaged by the bolt when the same is projected into the keeper, an electric current conductor having an end attached to and insulated from said bolt and arranged to be electrically connected with the other of said terminals when the bolt is projected into the keeper opening, an incandescent electric lamp arranged with respect to said keyhole opening to illuminate the same when energized, said current conductor being connected with one side of said lamp, and means for controlling the flow of electric current from the other side of said lamp to said metallic casing for the return of current through the bolt to the first mentioned terminal when the bolt is in projected position in the keeper opening.

2,283,445
LIQUID FUEL BURNER
Bror Gunnar Lange, Jonkoping, Sweden, assignor to Aktiebolaget Svenska Fläktfabriken, Stockholm, Sweden, a company of Sweden
Application March 6, 1940, Serial No. 322,515
In Sweden March 7, 1939
9 Claims. (Cl. 261—92)



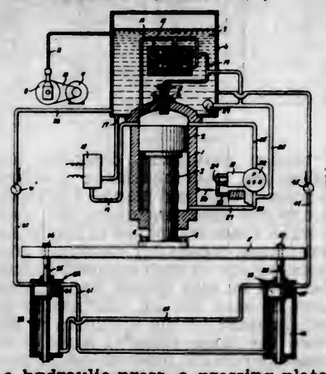
1. A liquid fuel burner comprising means for forming a film of liquid fuel, a brushing member positioned to contact said film, means for rapidly rotating said brushing member to cause the fuel film to be dispersed in a stream of finely divided particles of varying sizes, means for conveying an air current towards said stream to form therewith a fuel-air mixture, and shielding means projecting into said stream at that portion of said stream which carries the larger of said particles so as to prevent part of the subdivided fuel from reaching the air current.

2,283,446
FOOT ARCH SUPPORT
Robert Lenthall, London, England, assignor, by mesne assignments, to The Scholl Mfg. Co., Inc., Chicago, Ill., a corporation of New York
Application May 16, 1940, Serial No. 335,566
In Great Britain May 25, 1939
5 Claims. (Cl. 36—71)



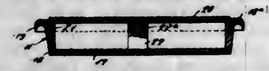
5. In an arch support, flexible cover means, a plurality of converging spring clip members carried by said cover means and projecting inwardly in spaced relationship to said cover means adjacent the heel end thereof, a relatively stiff supporting plate member slidable inside said clip members, said clip members and said plate member having complemental engaging means associated therewith and said plate member being removably engaged by said clip members from different angles simultaneously to maintain the plate member in proper position relatively to said cover means, a member disposed transversely along the underside of the forward portion of said cover means to form therewith a socket for the free reception of the forward end portion of said plate member to permit relative movement longitudinally of the support between the plate member and cover means while the support is in use.

2,283,447
PRESS BRAKE
Howard F. MacMillin and Paul C. Pocock, Mount Gilead, Ohio, assignors to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware
Application July 23, 1940, Serial No. 346,945
4 Claims. (Cl. 100—71)



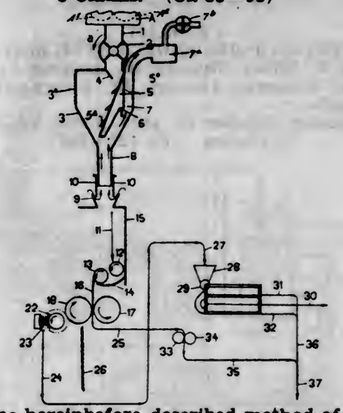
1. In a hydraulic press, a pressing platen, hydraulic motor means operatively connected with the center portion of said platen for reciprocating the latter, a fluid source adapted to supply pressure fluid to said motor means for actuating the same, a plurality of hydraulically operable cylinder-piston-assemblies for preventing tilting movement of said platen, each of said balancing cylinder-piston-assemblies having a double acting piston with equal piston areas and being associated with one corner of said platen, and conduit means interconnecting opposed piston areas respectively pertaining to diametrically arranged balancing cylinder-piston-assemblies.

2,283,448
REFRIGERATOR LID
Edward J. Malek, Euclid, Ohio, assignor to The Aetna Rubber Company, Cleveland, Ohio, a corporation of Ohio
Application August 2, 1938, Serial No. 222,659
2 Claims. (Cl. 220—24)



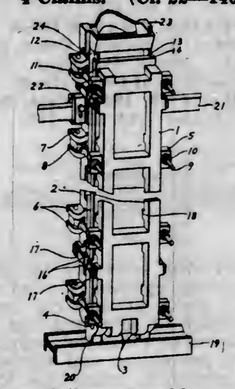
1. A hollow lid for refrigerators composed of a body portion the latter forming one side of the lid, said side having a skirt projecting therefrom forming the edge of the lid, and a plate forming the opposite side of the lid, the body portion being formed from vulcanized rubber with the major portion produced from hard rubber composition and the end of the skirt from soft rubber composition, said plate having its marginal portion embedded in the soft rubber part of the skirt whereby it is secured and sealed in the latter, said first-named side having molded integral therewith an internal supporting rib which projects to and engages the underside of said plate, the end of said rib being formed of soft rubber.

2,283,449
GARLIC SEPARATOR
Charles Meneux, Nantes, Sylvain Gabriel Bourdin, Angers, and Louis Chaussé, Nantes, France
Application March 29, 1940, Serial No. 326,568
In France April 15, 1939
8 Claims. (Cl. 83—93)



1. The hereinbefore described method of milling and separating garlic from corn comprising the steps of preliminarily grinding said corn to obtain a coarse meal, spreading said meal into a layer, causing an air draft to impinge said layer in counter-current so as to blow away the lighter constituents of the corn, leading the meal between revoluble rigid members one at least of which has a garlic-picking surface and is doffed by friction means, separately collecting the garlic and the clean meal, and subjecting the clean meal to further grinding.

2,283,450
INGOT MOLD
Edmund G. Mitchell, Godfrey Township, Madison County, and Harry C. Schaper and Edward Hartshorne, Alton, Ill., assignors to Western Cartridge Company, East Alton, Ill., a corporation of Delaware
Application December 5, 1940, Serial No. 368,688
4 Claims. (Cl. 22—146)



1. An air-cooled ingot mold comprising a pair

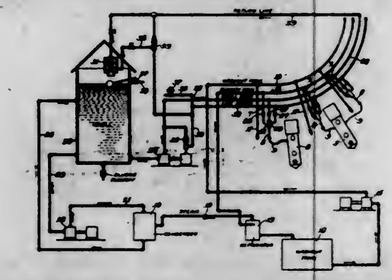
of substantially rigid hingedly-joined frames each consisting of an open one-piece structure of elongated end-posts connected near the ends and at intermediate points by bars, spaced projections integrally formed on the said end-posts, a mold section held in each frame and having longitudinal contact therewith solely at the said projections, said mold sections being adapted to interlock forming a chamber open at one end, and means forcing the said frames toward one another to interlock the said mold sections.

2,283,451

METHOD OF RECONDITIONING BOILERS

Frank W. Miller, Chicago, Ill., assignor to Franclare Company, Chicago, Ill., a corporation of Illinois

Application October 20, 1939, Serial No. 300,329
4 Claims. (Cl. 122—382)



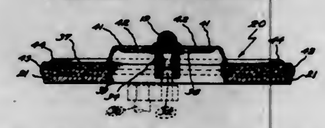
1. The method of reconditioning a locomotive boiler by reduction of concentrates accumulated therein while maintaining said boiler under substantially operative steam pressure and while the boiler fire is substantially inactive, which comprises blowing off from below the boiler water level by means of said steam pressure a substantial portion of the contaminated boiler water while leaving sufficient water in said boiler to maintain said steam pressure, delivering into the boiler a quantity of superheated refill water under a pressure greater than the boiler pressure and at a temperature higher than the steam flash temperature of the boiler water under the existing boiler pressure and repeating said blow-off and water replacement operations in alternation until the desired concentrate reduction has been attained.

2,283,452

GYRATORY VALVE DISK

George H. Molden, Bridgeport, Conn., assignor to The Sprague Meter Company, Bridgeport, Conn., a corporation of Connecticut

Application August 10, 1940, Serial No. 352,067
8 Claims. (Cl. 251—160)



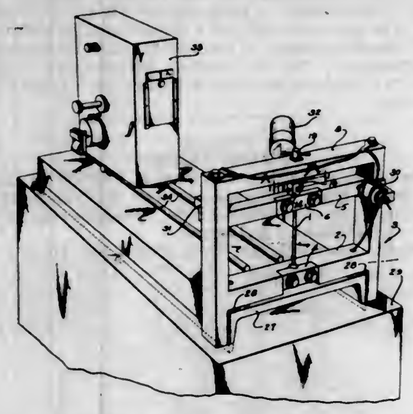
1. In a valve disk structure for gas meters adapted to perform edgewise gyratory movement in a horizontal plane, at least one trough sunk in the top surface of said structure extending about the center of said disk for trapping foreign substances and preventing said substances from being forced outward by centrifugal force to the peripheral edge of said disk.

2,283,453

TORSION PENDULUM DAMPING APPARATUS

John T. Norton, Cambridge, Mass.

Application October 14, 1939, Serial No. 299,543
8 Claims. (Cl. 73—51)



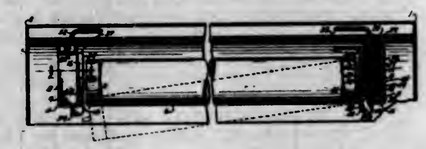
1. A torsion pendulum damping apparatus comprising, in combination, a stationary integrally formed base and frame of large mass and having opposed cross members, an inertia bar of very small mass compared to the mass of said base and frame, means for clamping one end of a specimen by one of said opposed members and the other end by said inertia bar whereby upon oscillation of said bar an alternating torsional stress is imparted to the specimen while at the same time the large integral mass of the base and frame operates to prevent loss of inertia bar energy in said base and frame, and means for pivotally supporting said inertia bar and specimen by the other of said opposed members.

2,283,454

SOCKET FOR TUBE LAMPS

Arthur Osterloo, Kansas City, Mo.

Application August 31, 1940, Serial No. 355,053
10 Claims. (Cl. 173—328)



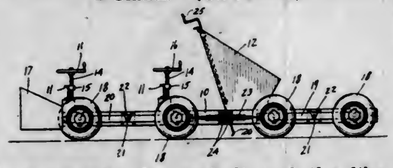
2. A device of the character described including, a casing having a back, sides, and a bottom forming an open front, a body of resilient material in the casing engaging said back, a contact carrying member in the open front of the casing and pressingly retaining the resilient material against said back of the casing, means on the casing for limiting outward movement of the contact carrying member, contact elements carried by said contact carrying member, said contact carrying member having grooves sloping from an edge thereof in the direction of the contact elements for guiding the prongs of a tube lamp into engagement with the contacting elements, and a thumb piece projecting from the contact carrying member at a point intermediate said grooves to facilitate movement of the contact carrying member into said casing.

2,283,455

SPREADER FOR ASPHALT AND THE LIKE

Ivan J. Overman, Marion, Ind., assignor to Overmander Machine, Inc., Marion, Ind., a corporation

Application March 7, 1940, Serial No. 322,685
1 Claim. (Cl. 94—44)



In a spreader for asphalt and the like, the combination of a frame structure, equalizer members pivoted adjacent their mid-points to said frame structure adjacent the forward and rear ends of each side thereof, a pneumatic tired ground wheel mounted at each end of each of said equalizer members, and a pair of leaf springs each secured at its mid-point to said frame structure and each having one end attached to the rear end of one of said equalizer members and the opposite end attached to the front end of another.

2,283,456

PROCESS FOR SEPARATING UNSAPONIFIABLE SUBSTANCES FROM THEIR MIXTURES OR COMPOUNDS WITH SAPONIFIABLE SUBSTANCES

Hermann Pardun, Hamburg-Harburg, Germany, assignor to the firm Noblee & Thörl G. m. b. H., Hamburg-Harburg, Germany

No Drawing. Application May 3, 1940, Serial No. 333,250. In Germany August 23, 1939
7 Claims. (Cl. 260—452)

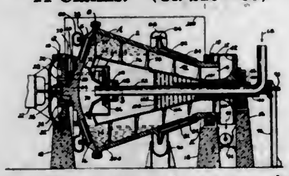
1. In a process for separating mixtures of compounds of unsaponifiable and saponifiable matter, the step of saponifying such mixture or compound with an aqueous solution of a basic agent, melting anhydrous soap, injecting the aqueous saponification product into the molten soap, whereby water and a portion of unsaponifiable matter are removed and the molten soap becomes anhydrous, and distilling off the remainder of the unsaponifiable matter from this soap in high vacuum.

2,283,457

CENTRIFUGAL SEPARATOR

Joseph S. Pecker, Philadelphia, Pa.

Application February 19, 1938, Serial No. 191,466
11 Claims. (Cl. 210—69)



1. A centrifugal separator, comprising a rotatable shell, one end of which is larger than the other, a closure for the larger end of said shell provided axially with a concave surface and with a perforate section adjacent to its periphery, a second perforate section adjacent to the smaller end of said shell, a coaxial inlet conduit entering the smaller end of said shell and terminating in spaced relation with the central portion of said concave surface, to cause material being treated to enter said shell and impinge against said concave surface, means within and rotatable with respect to said shell to propel material towards the said smaller end, an outlet from said smaller end, and means to rotate said shell and said propelling means at different speeds.

2,283,458

PROCESS FOR MAKING RESINOUS CONDENSATION PRODUCTS

Max Phillips, Washington, D. C., dedicated to the free use of the People of the United States of America

No Drawing. Application January 10, 1940, Serial No. 313,219
4 Claims. (Cl. 260—10)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

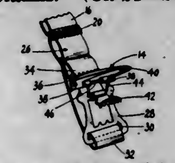
1. A process of making a resinous condensation product, comprising heating hemicelluloses with a phenol as the only reactants in the presence of a catalyst.

2,283,459

GIRDLE SUPPORTING MEANS

Nell Moline Pfann, New York, N. Y., assignor to I. B. Kleinert Rubber Company, New York, N. Y., a corporation of New York

Application September 21, 1939, Serial No. 295,866
2 Claims. (Cl. 24—248)



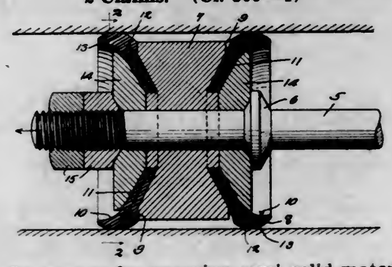
1. Supporting means comprising a strap having an elastic end portion and a clasp attached to said elastic end portion, said clasp comprising a first jaw member, a second jaw member pivotally connected to said first jaw member, a cover and jaw-operating member pivotally connected to said two jaw members at one end of the clasp and operative to open and close said jaw members, said first jaw member having a slot at the opposite end of the clasp, a part of said elastic strap covering the back of the clasp and connected at one end thereof to said clasp in said slot, and a part of said elastic strap being connected at the other end thereof to said cover member at the first mentioned end of the clasp, said end portion of the strap being folded between its ends, and a buckle through which said end portion extends and which engages the latter at the folded part thereof.

2,283,460

PISTON

Charles M. Pumphrey, Wharton, Tex.

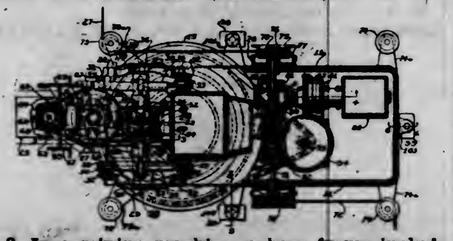
Application March 10, 1941, Serial No. 382,645
2 Claims. (Cl. 309—4)



2. In a pump for pumping semi-solid material,

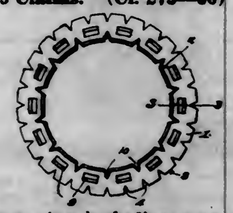
a pump cylinder, a piston comprising a body portion having inclined recessed end walls, terminating in substantially straight flat surfaces providing shoulders adjacent to the periphery of the piston, flexible packing rings fitted over the inclined end walls, the outer edges thereof extending an appreciable distance beyond the periphery of the piston, portions of the packing rings adjacent to the free edges thereof being substantially thick, a disk-like steel member embedded in each packing ring, the outer edges of the disk-like steel members terminating at points where the thickened portions of the packing rings merge into the main portions of the packing rings, the thickened portions of the packing rings adapted to rest against the shoulders on one stroke of the piston, and means for securing the packing rings to the inclined end walls of the piston.

2,283,461
KERF-CUTTING MACHINE
Thomas E. Pray, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application October 14, 1940, Serial No. 361,030
2 Claims. (Cl. 262—30)



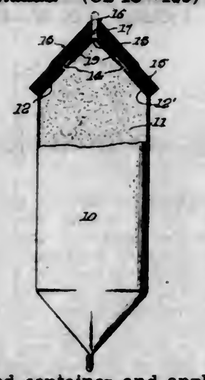
2. In a mining machine, a base frame including a skid in slidable supporting engagement with the mine floor, a turntable mounted at the front of said base frame to swing on a vertical axis, cutting mechanism including a chain carrying cutter bar and a motor for driving the cutter chain mounted on said turntable, flexible draft means for moving said base frame along the mine floor including winding means, a shaft operatively connected with said winding means, a motor on said base frame, gearing connecting said last-named motor with said shaft for driving the latter at variable speeds and in opposite directions, a flexible drive member extending forwardly about said turntable, and means selectively connecting said drive member with said shaft, whereby said turntable may be rotated in either direction at variable speeds.

2,283,462
GOLF RING CUP
James K. Richie, Butler, Pa.
Application September 7, 1940, Serial No. 355,853
5 Claims. (Cl. 273—36)



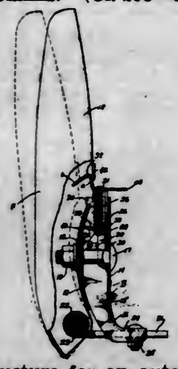
1. A golf cup-ring including a one-piece, flexible frusto-conical ring having slots extending into one edge, said ring being open at the bottom and top.

2,283,463
COMBINED TUBULAR CONTAINER AND APPLICATOR
Raymond C. Rupp, Kendallville, Ind.
Application April 23, 1940, Serial No. 331,246
7 Claims. (Cl. 15—135)



1. A combined container and applicator comprising a tube having a substantially rigid one-piece end wall, said end wall consisting of two substantially rigid halves converging outwardly and joined integrally to each other along a ridge, and a resilient one-piece pad having substantially flat converging halves also joined integrally to each other along a ridge, said pad halves being secured upon one side of said end wall halves and said ridges being in contact with each other, and an outlet passage from the interior to the exterior of said tube including an opening through the outermost of said ridges, said pad having an integral yieldable portion which normally obstructs discharge of the tube contents through said passage.

2,283,464
AUTOMOBILE BUMPER GUARD
Ray A. Sandberg, Waukegan, Ill., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application April 5, 1941, Serial No. 387,009
2 Claims. (Cl. 293—55)

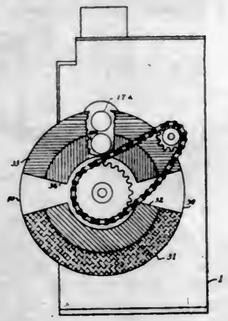


1. Guard structure for an automobile bumper comprising a bracket of U-shaped cross section adapted to be secured against the rear side of an automobile bumper impact bar to extend transversely thereof, a guard body having hinge connection at its lower end with the lower end of said bracket for swing into or out of service position relative to an impact bar, a latch frame of U-shape cross section seated within said bracket for vertical shift therein, tongues deflected out of the sidewalls of said bracket to be in front of the sidewalls of said latch frame for cooperating with the rear wall of said bracket to guide said latch frame, a latch hook at the outer end of said latch frame, the sidewalls of said bracket having slots, a guide plate seated at its ends in said slots to extend transversely in said bracket, a rod extending from the upper end of said latch frame through said guide plate, a spring interposed between said guide plate and the outer end of said latch frame for urging said latch frame outwardly for setting of the latch hook in latching position, and keeper structure on said guard body for interlatching engagement with said latch hook when said body is swung upwardly into its service position.

2,283,465
TREATMENT OF PHENOLS
Raymond E. Schaad, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application February 16, 1939, Serial No. 256,761
9 Claims. (Cl. 260—624)

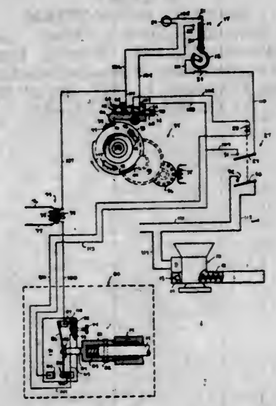
8. A process for producing alkylated phenols which comprises alkylating a phenol with an unsaturated aliphatic hydrocarbon containing two double bonds in the presence of a solid mixture comprising essentially an acid of phosphorus and an absorbent carrier and at a temperature of from about 100° C. to about 300° C.

2,283,466
PROCESS FOR STEREOSCOPIC MOTION PICTURES IN COLORS
Roy E. Schensted, Clarion, Iowa
Application April 8, 1940, Serial No. 328,454
9 Claims. (Cl. 88—16.4)



1. The method of taking fractional stereoscopic pictures upon color-corrected black and white films which consists in taking said fractional pictures in successive pairs, one picture of each pair being taken through a color screen bearing one of the cool colors of the spectrum, and the other picture of said pair being simultaneously taken through a color screen bearing a warm color of the spectrum, every pair of pictures being taken through screens bearing different colors from the preceding and succeeding pairs, but such preceding and succeeding pairs both being taken through the same or similar screens, the picture of each pair bearing a warm color of the spectrum being followed by a picture bearing a color from the cool section of the spectrum whereby, when the pairs of pictures are projected to a screen in the sequence in which they were originally taken, through a pair of opposite polarizers and viewed through a corresponding pair of polarizers, each warm picture seen by a given eye of the observer will be followed by a cool picture observed by the same eye, and at the same time that either eye is seeing a warm picture, the other eye will be seeing a cool picture, thereby relieving the eyes from the strain incident to the continued viewing of successive warm and therefore bright pictures, as well as permitting the natural accommodation of the eyes to overcome the fringing of the different colors.

2,283,467
STOKER ALARM SYSTEM
Elmer K. Scoggin, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application May 3, 1940, Serial No. 333,147
10 Claims. (Cl. 236—1)

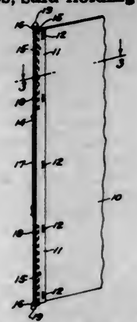


4. In apparatus of the character described, in combination, an automatic stoker having fuel feed mechanism and motor driving means therefor, control means for the stoker comprising a thermostat located remotely from the stoker and having a control circuit connected thereto, a normally closed switch in said circuit, and a signal device included in said circuit, said circuit normally carrying insufficient current to properly operate said signal device, means responsive to excessive load on the motor driving means for opening said switch to stop the stoker, and a normally open switch operable to closed position by said load responsive means, means forming a circuit controlled by said normally open switch connecting said signal device directly across a power source whereby said signal device carries sufficient current to properly operate it.

2,283,468
PERIODICAL HOLDER
Alfred George Scholz, San Francisco, Calif.
Application August 2, 1940, Serial No. 349,452
5 Claims. (Cl. 129—39)

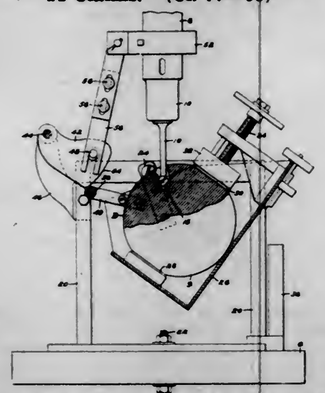
4. A magazine holder comprising in combination, a backing member, a U shaped member attached along one margin of said backing member in such a manner as to form a tube, a covering member for said U shaped member, a pair of rods with stops thereon retained in free but firm engagement at opposite ends of said tube, and

resilient holding means under tension retained between said stops, said holding means including



a resilient portion and one or more less resilient portions.

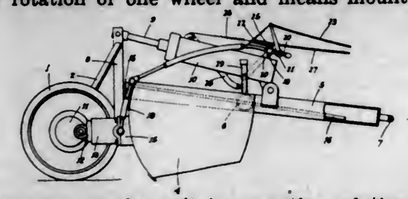
2,283,469
BORING MECHANISM
Henry B. Shepard, Newton, Mass., assignor to Stowe-Woodward, Inc., Newton Upper Falls, Mass., a corporation of Massachusetts
Application February 1, 1941, Serial No. 377,063
11 Claims. (Cl. 77—63)



11. A boring appliance comprising a drill-rotating means, a work support, the two being mounted for relative translating movement in the direction of the axis of rotation of the drill and for swinging movement of one about a line transverse to and spaced from said axis, and a driving means having connections for effecting both such movements in correlation during the same time period.

2,283,470
HYDRAULICALLY SELF-OPERATED EARTH MOVING SCRAPER
Derelle Ellsworth Sturges, Sacramento, Calif.
Application August 29, 1940, Serial No. 354,687
2 Claims. (Cl. 37—169)

1. In a scraper which includes a unit having a longitudinal beam adapted at its forward end to be maintained at a fixed level and a bowl rigid with the beam, rear supporting wheels, a lever assembly pivoted on and projecting forwardly from the wheels, a horizontal pivot connection between the unit at its rear end and the assembly at its forward end, and hydraulic means to swing the assembly about the wheels as an axis to raise and lower said pivot connection; means to provide liquid pressure for the operation of the hydraulic means and including a liquid pressure pump, means operating the pump by rotation of one wheel and means mounting



the pump on the unit in operative relation to the wheel irrespective of the level of said pivot connection and the corresponding position of the unit relative to the wheels.

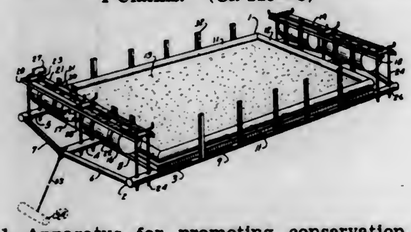
2,283,471
ORGANIC CONTACT INSECTICIDE AND ITS USE
James William Swaine, Bayside, N. Y., assignor to General Chemical Company, New York, N. Y., a corporation of New York
No Drawing. Application November 23, 1938, Serial No. 241,936
14 Claims. (Cl. 167—22)

1. A contact insecticide comprising an organic compound containing not less than 11 and not more than 13 carbon atoms and consisting essentially of the nucleus

$$R_1-\overset{\overset{O}{\|}}{C}-R_2$$

R_1 representing an alkyl group and R_2 representing an alkyl, an aryl, or an aralkyl group.

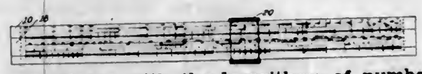
2,283,472
APPARATUS FOR ESTABLISHING FISH HABITATS
Blaine M. Tuxhorn, Kansas City, Mo.
Application October 25, 1939, Serial No. 301,223
4 Claims. (Cl. 119—3)



1. Apparatus for promoting conservation of fish in a body of water having varying levels including, a substantially raft-like platform, material supported on said platform for growing aquatic plants, said raft-like platform and materials being of sufficient weight to sink below the surface of the water, buoys offset laterally of the bounds of said bed of material and adapted to float on the surface of the water, and means suspendedly connecting said buoys with the raft-like platform to support said raft-like platform a predetermined distance below the surface of the water.

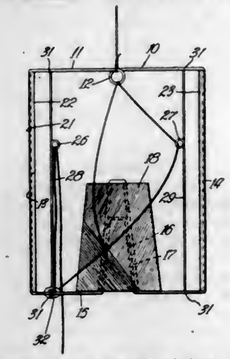
2,283,473
SLIDE RULE
John Tyler, Lyman M. Kells, Willis F. Kern, and James R. Bland, Annapolis, Md.
Application January 23, 1940, Serial No. 315,208
5 Claims. (Cl. 235—70)

1. A slide rule comprising members relatively movable with respect to each other, said members having scales thereon, said scales being substantially coextensive when the rule is in one position and graduated to cooperate with one another in the solutions of problems, a single line scale on one of the said members graduated in accordance with the logarithms of the logarithms of numbers greater than unity from $e^{.001}$ to e^{10}, arranged in ascending order from one end of the rule toward the other, the scale of the other of said members being a single line and graduated



in accordance with the logarithms of numbers arranged in ascending order from one end of the rule toward the other in the same direction as the single line scale on said first named member, said scale of logarithms of numbers being repeated three times to provide four such scales and providing three indices between the ends thereof, one of said indices being aligned with the e point of said single line scale on said first named member when the rule is in said first position, said scales being graduated to the same unit length.

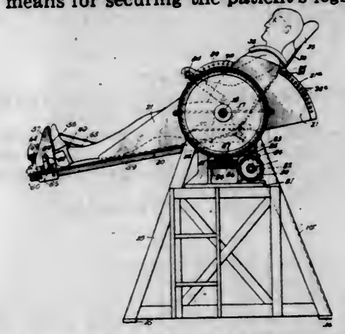
2,283,474
ADVERTISING STRING HOLDER
William F. Vernon, Newton, Iowa
Application March 6, 1940, Serial No. 322,454
1 Claim. (Cl. 242—146)



In an advertising spool-string dispenser; a wire frame having top, side, and bottom wires, including a string-spool spindle on the bottom wire; a top string guide and dispenser suspending loop on the top wire above the spindle; guide wires having string guide loops mounted on the top and bottom wires closely paralleling the side wires; V-shaped retainer strips fastened on the side wires; a gravity operated string tensioning member mounted for vertical movement on one of the guide wires; and removable side panels mounted within the retainer strips, the side panels being sufficiently stiff and long to require outwardly tensioned bowing to stably enclose the string dispenser and provide effective removable advertising panels.

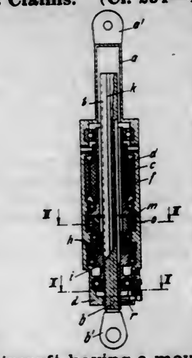
2,283,475
THERAPEUTIC APPARATUS
Frank Wagner, Chicago, Ill.
Application July 22, 1940, Serial No. 346,737
4 Claims. (Cl. 128—33)

1. In apparatus of the character described, the combination of a supporting seat, an extension rigid with the seat for supporting the patient's legs while extended, a pivotally adjustable support for the patient's back, said supporting seat, extension and back-support forming a substantially continuous rigid supporting structure for the body, back and extended legs of the patient in a lying position, means for locking the back-support in different inclined positions to support the patient in a recumbent position, rigid sides extending along the seat and back-supports, means for securing the patient's legs while



extended on the extension, and the central portion of the patient's body on the seat-support, and the patient's shoulders firmly on the back-support, a handle-bar extending transversely across the space between and adjustably connected to the sides, means for supporting the structure on a transverse axis in a vertical plane and at a sufficient elevation for complete rotation of the patient, and means for rotating the structure on said axis with the patient firmly secured thereon.

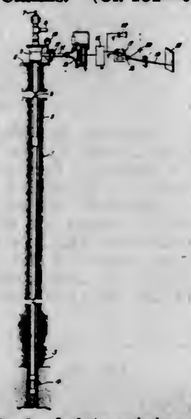
2,283,476
ELECTRICALLY OPERATED RETRACTABLE AND EXTENSIBLE TELESCOPIC STRUT
Karl Waibel, Frankfort-on-the-Main, Germany, assignor to Vereinigte Deutsche Metallwerke Aktiengesellschaft, Frankfort - on - the-Main-Heddernheim, Germany, a corporation of Germany
Application August 1, 1939, Serial No. 287,807
In Germany August 6, 1938
2 Claims. (Cl. 254—103)



1. In an aircraft having a movable element, an electrically operated retractable and extensible telescopic strut for moving such element, comprising an outer cylindrical member and an inner screw-member, means on said outer and inner members for connecting them to the aircraft and to the movable element respectively, a nut

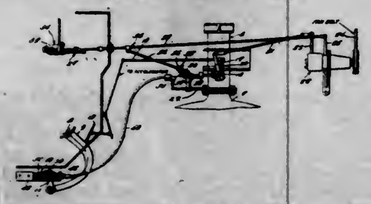
rotatably mounted at one end of said cylindrical member engaging said screw member to screw said screw-member into and out of said cylindrical member, means for preventing the rotation of said screw member, a reduction gearing having a first wheel operatively connected to said nut to drive the same, and a second wheel, an electric motor coaxial with said screw member, a detent mechanism to permit displacement by the motor only, said detent mechanism connecting said second wheel to said motor to be driven thereby.

2,283,477
METHOD OF DETERMINING LOCATION OF LIQUID LEVEL IN WELLS
Cranford P. Walker, San Marino, Calif.
Original application October 26, 1937, Serial No. 171,170. Divided and this application April 19, 1939, Serial No. 268,806
6 Claims. (Cl. 181—0.5)



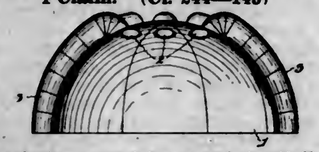
1. The method of determining when the surface of the liquid in a well is at the level of a pump inlet, which comprises operating the pump to pump fluid from the well to thus cause surging of the liquid column in the well and pressure variations in the gas column in the well casing, and recording the wave form of the pressure variations in the gas at the casing head of the well to distinguish the smooth wave form produced when the liquid surface level is above the pump from the broken wave form resulting from the intake of free gas into the pump when the liquid surface level is at the pump.

2,283,478
ROBOT FOR MOTOR VEHICLES
Arlie D. Warren, Muskogee, Okla.
Original application July 5, 1939, Serial No. 282,953. Divided and this application May 8, 1940, Serial No. 334,075
4 Claims. (Cl. 192—.01)



1. In an automotive vehicle, the combination with an engine, a fuel control throttle for the engine, an engine operated governor for operating said throttle, and clutch and brake pedals, respectively, the former for establishing a driving relation between the engine and vehicle, of a clutch between said governor and throttle, and means operative by independent operation of said brake and clutch pedals and also by simultaneous operation of both for operating said clutch.

2,283,479
PARACHUTE
John B. Westenhaver, Wheeling, W. Va.
Application March 1, 1941, Serial No. 381,269
1 Claim. (Cl. 244—145)



A parachute comprising a substantially semispherical envelope having a peripheral leading edge, a plurality of air exhaust vents radially disposed about the top of the envelope, air exhaust ducts attached to the envelope and having their air entrance ends connected to said envelope about the air vents in the top of the envelope and having the opposite, air discharge ends terminating adjacent the peripheral leading edge of said envelope so that, during descent of the envelope through space, air may be discharged outwardly of the envelope and downwardly through said ducts from whence it is discharged from the lower ends of said ducts adjacent the leading edge of the envelope against the counter atmospheric pressure.

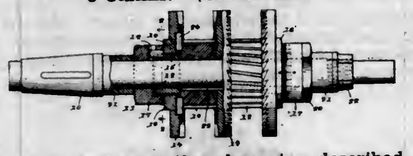
2,283,480
DECALCOMANIA
Clarence B. Wilkerson, Chicago, Ill., assignor, by mesne assignments, of one-half to Davis, Lindsey, Smith & Shouts, Chicago, Ill., a partnership
Application January 19, 1940, Serial No. 314,691
15 Claims. (Cl. 41—33)



1. A decalcomania comprising a carrier member having an adhesive coating soluble in water, a coating of material insoluble in water and of greater outline size than the completed design disposed upon said adhesive coating, said material assuming a flexible film form adapted to serve as a design carrier film, a second coating of material insoluble in water and having the exact outline size and shape of the completed design disposed upon said first coating, said material being bondable with the material of said first coating and having adhesive characteristics

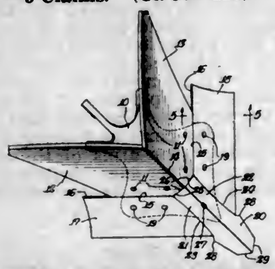
in its wet or non-dried condition, a coating of white fibrous floc material adhesively secured throughout said second coating, and means for defining design characteristics within the outline of the completed design including one or more coatings of colored lacquer material on said flocked surface, said latter material being insoluble in water, bondable with said second coating, quick drying and adapted to be absorbed by said floc material at a slow rate, the arrangement being such that the desired design characteristics are provided by variation in the color of said latter material and by overlapping certain of said coatings.

2,283,481
ADJUSTING CUTTER ASSEMBLY
George Womble, Portsmouth, Va.
Application November 18, 1940, Serial No. 366,177
3 Claims. (Cl. 29—103)



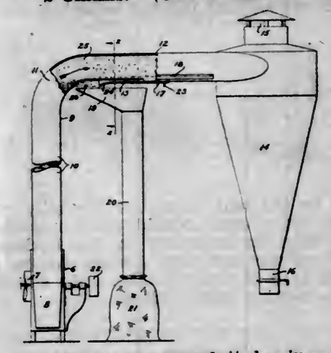
3. In a device of the character described, a shaft, a surface mill splined on the said shaft, an exteriorly threaded bushing rotatably mounted on the shaft at one end of the said mill, an end cutter threadedly mounted on the said bushing and keyed to the said mill, a nut rotatably fitted on the shaft and threadedly engaging an extending portion of the bushing, the said nut having a recess therein, and a key fitted in the recess of the nut and engaging the bushing for locking the nut and bushing.

2,283,482
PLOW CONSTRUCTION
Herman E. Altgelt, South Bend, Ind., assignor to Oliver Farm Equipment Company, a corporation of Delaware
Application January 17, 1940, Serial No. 314,212
5 Claims. (Cl. 97—113)



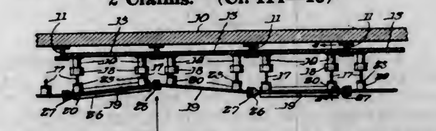
1. A lister plow comprising a standard, separate diverging right and left hand mouldboards secured to said standard, right and left hand share sections adjacent said respective mouldboards, the forward edges of said shares being spaced apart and having their surfaces in two planes forming a dihedral angle, a point member having its opposite edges complementary to the dihedral surfaces of said shares, means for detachably securing said point to said standard, and laterally projecting portions formed on the opposite sides of said point spaced forwardly of and projecting outwardly with respect to the contiguous edges of said point and shares for deflecting material from entering between said point and said shares.

2,283,483
SEPARATOR
Gerald D. Arnold, Wauwatosa, Wis.
Application December 15, 1939, Serial No. 309,335
2 Claims. (Cl. 209—143)



1. In combination, a conduit having an upwardly extending portion and having a substantially horizontally extending portion connected by an elbow with the upper end of said upwardly extending portion, means for blowing solids including heavy and light particles into said upwardly extending conduit portion to travel upwardly therein, the bottom of said horizontally extending conduit portion extending in a substantially horizontal plane and having an opening therein which coincides at one end with a portion of the elbow and through which heavy particles of said solids may fall by gravity when their velocity is lost as they travel through the elbow while fine particles continue through the horizontal conduit portion, and means for varying the effective length of said opening at both ends.

2,283,484
ARMOR
Andrew Bak, Chicago, Ill.
Application June 23, 1941, Serial No. 399,305
2 Claims. (Cl. 114—13)

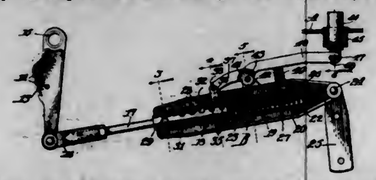


1. An armor comprising a plurality of armor plates arranged in a contiguous formation for providing a continuous armored surface, and marginal enlargements in the staggered alternate plates, said enlargements being provided with longitudinal marginal recesses for receiving therewithin marginal portions of the adjacent armor plates devoid of said marginal enlargements, whereby the impact of a missile received at one of said plates may be distributed among the adjacent plates.

2,283,485
RECLINING SEAT MECHANISM
Ernie J. Beck, Chicago, Ill., assignor to S. Karpen & Bros., Chicago, Ill., a corporation of Illinois
Application August 28, 1939, Serial No. 292,359
4 Claims. (Cl. 155—161)

2. In combination with a seat frame and a seat back pivotally mounted thereon, a plunger arm pivotally mounted on said seat back and provided with spaced locking indentations, an

integral casting providing a central tubular member and vertical web portions on either side thereof extending longitudinally of the tubular member, a portion of the upper web and the top portion of the tubular member being broken away to expose said locking indentations, means



carried by the seat frame for pivotally supporting the front end of said tubular member, a locking member mounted in the broken away portion of the web, and means for releasably bringing said locking member into engagement with the locking indentations.

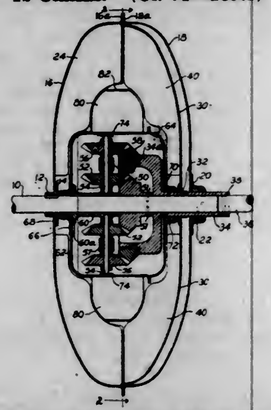
2,283,486

HYDROMECHANICAL TRANSMISSION DRIVE

Charles W. Berry, Dayton, Ohio

Application September 12, 1940, Serial No. 356,484

12 Claims. (Cl. 74—189.5)



1. A power transmission device for transmitting power from a prime mover to a load, said power transmission device including hydraulic power transmission means for transmitting power hydraulically from the prime mover directly to the load and hydro-mechanical power transmission means for transmitting power from the prime mover to the load, said hydro-mechanical power transmission means transmitting power in addition to the power transmitted by the hydraulic power transmission means, said hydro-mechanical transmission means including a floating spider having fins projecting into the fluid actuated by the hydraulic power transmission means so as to correlate the effectiveness of the hydro-mechanical transmission means with respect to the hydraulic power transmission means.

2,283,487

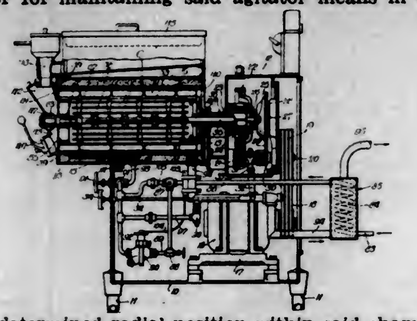
ICE CREAM FREEZER

Arthur H. Boileau, Cedar Rapids, Iowa, assignor to Cherry-Burrell Corporation, Wilmington, Del., a corporation

Application January 26, 1939, Serial No. 252,884

10 Claims. (Cl. 259—9)

1. A processing device comprising a processing chamber having a door at one end thereof, agitator means supported for movement within said chamber, agitator support means carried by said door for maintaining said agitator means in a



predetermined radial position within said chamber, and means biasing said agitator means for yieldably maintaining it in a predetermined axial position within said chamber.

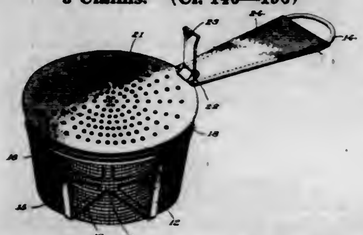
2,283,488

BEAN WASHER

John H. Cox, Morales, Tex., assignor to William N. Meeks, Morales, Tex.

Application April 7, 1941, Serial No. 387,327

3 Claims. (Cl. 146—196)



1. A kitchen utensil comprising a wire mesh basket, a reinforcing frame comprising arms extending underneath the basket, the arms being bent upwardly to extend outside of the basket, a supporting ring, a handle formed integral with the ring, a strip of relatively thin sheet metal folded along its central portion over the supporting ring, the longitudinal edge portions of the strip being pressed inwardly below the ring, and a struck-out rib in said edge portions forming a crimp in the upper ends of the arms of the supporting frame and in the upper edge portion of the wire mesh basket to permanently assemble the parts.

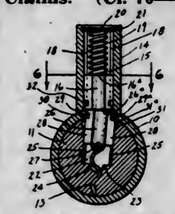
2,283,489

PIN AND CYLINDER LOCK

Ralph Paul Crousore, Indianapolis, Ind.

Application June 27, 1940, Serial No. 342,609

10 Claims. (Cl. 70—419)



1. In a lock having a cylinder and a barrel

rotatable therein and a housing on the cylinder, the same having bores therein, which communicate when aligned, the combination of a driver in the housing and cylinder bore, a key operable tumbler in the barrel bore, a positive shoulder construction at the barrel end of the housing bore and a positive shoulder construction at the cylinder end of the barrel bore, said positive shoulder constructions being formed at the end of said bores by enlargement of the bores immediately adjacent the shoulder end of the bores, the driver and tumbler being normally constrained toward barrel bore seating, the driver adjacent the tumbler end being recessed for barrel shoulder construction positive seating and the tumbler adjacent the driver end being recessed for the housing shoulder construction positive seating.

2,283,490

CAP OR CLOSURE MEMBER FOR VALVE STEMS

John C. Crowley, Cleveland Heights, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application September 14, 1939, Serial No. 294,904

3 Claims. (Cl. 138—89.3)



1. A cap or closure member for the externally threaded reduced outer end or nipple of a valve stem having an enlarged portion inwardly of said end or nipple providing a shoulder between said end or nipple and said enlarged portion, said cap or closure member comprising a thimble formed from relatively thin gauge metal and adapted to interfit with said outer end of the valve stem and provided with a plurality of inwardly extending deformations spaced circumferentially of the thimble and arranged in a spiral having a lead longitudinally of the thimble and corresponding substantially to the lead of the thread on the reduced outer end or nipple of the valve stem, said thimble having its open or inner end flared and shaped complementary to said shoulder of the valve stem and bearing against the same and providing a continuation of the outer surface of the enlarged portion of the valve stem.

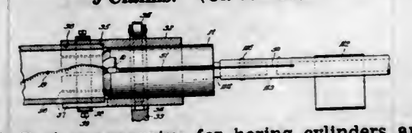
2,283,491

BORING APPARATUS

Frank J. Daley, Chicago, Ill., assignor to Hannifin Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application December 20, 1939, Serial No. 310,111

9 Claims. (Cl. 77—55)



5. Boring apparatus for boring cylinders and the like comprising in combination a pilot head having a cylindrical bearing surface of substantially the diameter of the bore to be machined in the cylinder, said head having a longitudinally adjustable boring tool whose cutting edge projects therefrom forwardly of said cylindrical bearing surface but not radially substantially beyond said cylindrical surface, said cutting edge being inclined with a reverse rake so as to direct the shaving as it leaves the tool toward the unmachined portion of the bore.

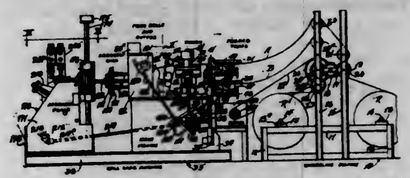
2,283,492

CELL CASE MACHINE

Carl J. Delegard, Chicago, Ill., assignor to Paper Partitions, Inc., Chicago, Ill., a corporation of Illinois

Application August 16, 1939, Serial No. 290,492

28 Claims. (Cl. 93—38)



1. In a cell case machine including a pair of feeder trays, an unreeling device for feeding a separate web in slack condition to each of said feeder trays, means for punching slots in said webs, and a web-severing device adapted to cut the webs into cell case strips, the improvements which comprise a pair of feed rolls positioned between the punching means and the severing device, each feed roll continually engaging a web to pull the webs through the feeder trays and punching means and to push the leading ends of the webs beyond the severing device, means for alternately driving each of said feed rolls through a series of intermittent steps, an assembly rack for receiving cell case strips from the severing device, and means for effecting relative movement between said assembly rack and said severing device for assembly of the strips into cell cases.

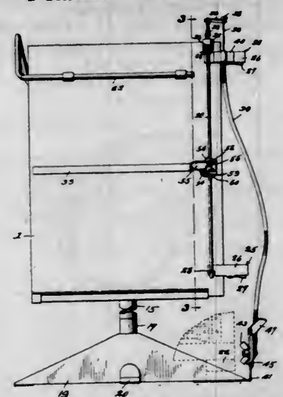
2,283,493

LINE INDICATOR

Frank G. Dickinson, Champaign, Ill., and Arthur G. Croninger, Miami, Okla.

Application January 16, 1941, Serial No. 374,776

4 Claims. (Cl. 120—34)



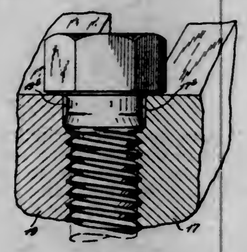
1. In a line indicator, a support, a track rod and an actuating rod disposed in approximately parallel relation and carried by the support, a carriage mounted for reciprocation on both rods, a line finder engaged with the carriage for reciprocation along one rod and for swinging movement with respect to the carriage and on said rod transversely thereof and independently of the other of said rods, means for imparting reciprocation to the actuating rod, and an automatically engageable and releasable connection between the carriage and the actuating rod.

2,283,494

METHOD OF MAKING SCREW AND WASHER ASSEMBLIES

Harvey C. Erdman, Shaker Heights, Ohio, assignor to The National Screw & Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application July 23, 1940, Serial No. 346,965
10 Claims. (Cl. 80—61)



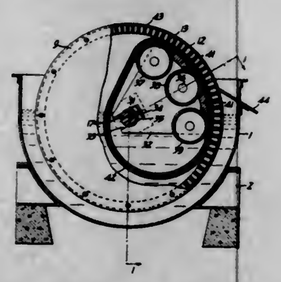
1. The method of forming a screw adapted for a screw and washer assembly which comprises rolling a helical thread on a portion of a headed blank and in the same operation rolling a continuous annular washer-retaining shoulder on the blank, the rolling of the helical thread and annular shoulder being done prior to the application of the washer to the screw and the rolled shoulder being somewhat higher than the rolled thread so that after the screw is completed a washer may be moved over the thread and shoulder and retained between the shoulder and the head of the screw.

2,283,495

CONTINUOUS FILTER

Franklin J. Evans, Hazleton, Pa., assignor to Oliver United Filters Incorporated, Oakland, Calif., a corporation of Nevada

Original application July 3, 1939, Serial No. 282,710. Divided and this application September 2, 1941, Serial No. 409,184
6 Claims. (Cl. 210—201)



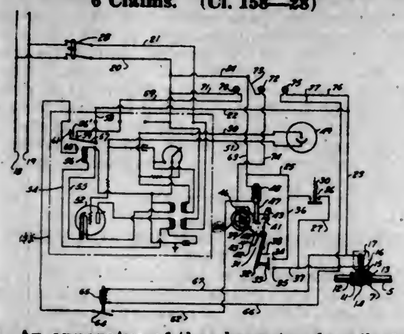
1. A filter comprising: a closed-ended perforate drum mounted for rotation through a body of material to be filtered; means for maintaining said drum under an inwardly directed differential filtering pressure; discharge means adjacent one side of the exterior peripheral surface of said drum for removing cake formed thereon; an endless belt mounted within said drum; and means for holding a portion of said belt in rolling frictional engagement with the inner surface of said drum along a zone opposite said discharge means.

2,283,496

APPARATUS FOR CONTROLLING FUEL SUPPLY TO FURNACES AND THE LIKE

Daniel W. Fehrenbach, Kansas City, Mo., assignor to Kansas City Journal-Post Company, Kansas City, Mo., a corporation of Missouri

Application July 31, 1939, Serial No. 287,470
6 Claims. (Cl. 158—28)



1. An apparatus of the character described including, a furnace having a fire-door, a burner, a fuel supply pipe connected with the burner, an electromagnetic valve in said fuel supply pipe, a circuit connected with the electromagnetic valve, a source of electric current, a switch having connection with said fire-door for closing said circuit when the fire-door is open, a photoelectric cell supported in the light zone of a flame from said burner, a normally opened switch in said electromagnetic valve circuit, an electromagnet for effecting closure of the normally open switch, and a relay circuit connected with said electromagnet and with the photoelectric cell for energizing the electromagnet to effect closure of said normally open switch when the photoelectric cell is activated by the flame from said burner to maintain the electromagnetic valve circuit in operation after opening of said door switch upon closure of the fire-door.

2,283,497

BORING BAR

Theodore W. Fields, Los Angeles, and Henry N. Oliver, South Gate, Calif.

Application October 6, 1941, Serial No. 413,790
9 Claims. (Cl. 77—58)



3. In a boring bar, a cutter mounted on one end of said bar, a sleeve rotatably mounted on the bar adjacent the cutter, said sleeve having annular grooves therein and a resilient ring in each of said grooves, said ring projecting beyond the periphery of the sleeve.

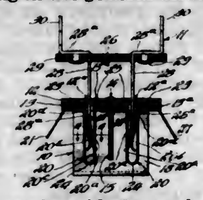
2,283,498

MULTIPLE PLUG CONNECTOR

Edward Joseph Glennon, Chicago, Ill., assignor to Comar Electric Co., Chicago, Ill., a corporation of Illinois

Application September 23, 1940, Serial No. 357,840
8 Claims. (Cl. 173—332)

7. In a connector, in combination, a flat, elongated, contact plug, and a jack therefor including opposite side arms between which said plug is adapted to fit, each said arm having a presser finger extending in the general direction of length



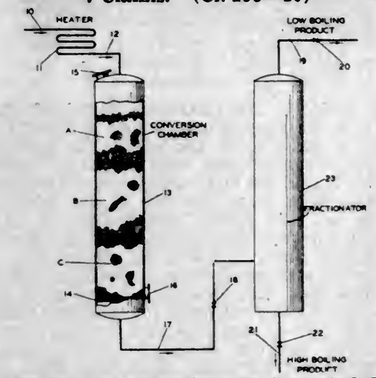
of said plug, each said finger being attached at one of its ends to its respective arm, and the attachment of one finger being at an end thereof which is opposite from that of the other finger.

2,283,499

CATALYTIC PROCESS

Karl H. Hachmuth, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application November 7, 1939, Serial No. 303,317
7 Claims. (Cl. 196—10)



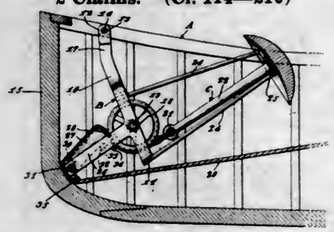
1. In the catalytic polymerization of olefin hydrocarbons, the improvement which comprises passing an olefin-containing hydrocarbon mixture down through a mass of a granular silica-alumina polymerization catalyst under polymerizing conditions of temperature and pressure, the said granular silica-alumina catalyst having been graded as to size and disposed in a polymerization chamber with finer particles at the bottom and coarser particles at the top.

2,283,500

ANCHOR DAVIT

Robert I. Holgerson, Omaha, Nebr.

Application December 5, 1939, Serial No. 307,670
2 Claims. (Cl. 114—210)



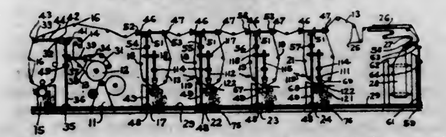
1. An anchor davit for boats, comprising a bracket swingable from the boat outboard and inboard thereof, a rack rigidly carried by the bracket at right angles thereto, and having at its outer end means for engaging the arms of an anchor, a pulley mounted on the bracket opposite the rack, a cable passing over the pulley and secured to the shank of an anchor, an arm rigidly carried by the bracket on the opposite side from the rack, a pivoted cam carried by the arm and engaging the cable on the pulley, whereby the inward movement of the cable draws the arms of the anchor against the rack and the continued movement thereof swings the bracket inboard and the arm supporting the bracket and with the anchor rigidly supported by the rack.

2,283,501

PRINTING MACHINE

William F. Huck, Richmond Hill, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York

Application September 14, 1940, Serial No. 356,743
16 Claims. (Cl. 270—5)



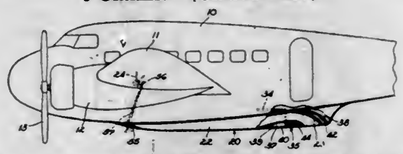
1. The combination with a first printing unit adapted to print an indicating mark upon a web, a second printing unit having a form cylinder and an impression roller cooperating with the form cylinder to print upon the web, a common drive shaft for the printing units, and mechanism operatively disposed between the drive shaft and the form cylinder of the second unit for producing additive and subtractive increments of movements of the form cylinder relative to the drive shaft, of means to drive the impression roller, and means responsive to the mark printed on the web for controlling the actuation of the said mechanism and the impression roller driving means.

2,283,502

MEANS FOR DUMPING FUEL FROM AIRCRAFT

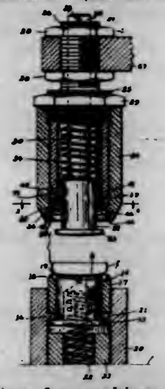
Howard R. Hughes, Houston, Tex., and Stanley A. Bell, Glendale, and Glenn E. Odekirk, Los Angeles, Calif., assignors to Hughes Tool Company, Houston, Tex., a corporation of Delaware

Application October 26, 1938, Serial No. 237,038
9 Claims. (Cl. 244—135)



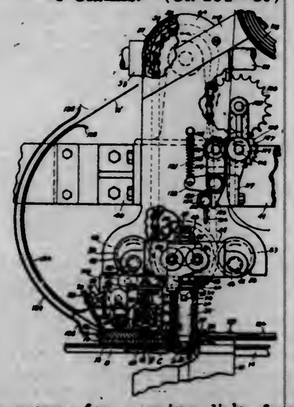
3. An emergency device for emptying a fuel tank of an aircraft and preventing ignition of said fuel during said emptying, said device comprising: walls forming a discharge passage to the exterior of the aircraft; valve means for releasing fuel from said tank to form a fuel stream in said passage; and means for discharging a stream of non-inflammable fluid into said fuel passage to intermix with said fuel stream prior to issuance of the fuel stream into the atmosphere thereby to transfer kinetic energy to the fuel stream.

2,283,503
MEANS FOR MAKING RECEPTACLE CLOSURE CAPS
John A. Johnson, Woodhaven, N. Y.
Application September 19, 1938, Serial No. 230,607
11 Claims. (Cl. 153—68)



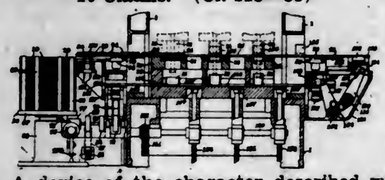
1. In apparatus for making receptacle closure caps from a cup shaped blank having a skirt connected to the bottom by an arcuate portion, a support for the blank comprising a fixedly mounted annular member having an arcuate face to support the arcuate portion of the blank and a member slidable in the annular member, and having a face to support the bottom of the blank, a head reciprocatory toward and away from the support and arranged with a die to engage the marginal portion of the blank on the support and form a circumferential series of inwardly and outwardly extending protuberances therein during the reciprocation of the head toward the support, and a plunger slidably mounted in the head and arranged to co-operate with the slidable member of the support to hold the blank against movement on the annular member during the forming of the protuberances.

2,283,504
MEANS FOR SEVERING DISKS FROM WEBS
John A. Johnson, Woodhaven, N. Y.
Application November 16, 1939, Serial No. 304,745
6 Claims. (Cl. 164—89)



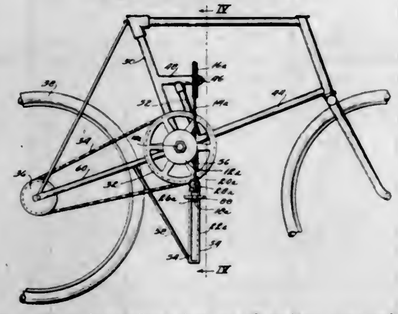
1. In means for severing disks from a web, a punch and die mechanism, a pair of rollers continuously rotated and one of said rollers yieldingly urged toward the other roller to continuously draw the web from a supply roll, a second pair of rollers continuously rotated and a roller of said second pair of rollers having a raised portion on the periphery thereof and mounted with the periphery in spaced relation with the periphery of the other roller of the second pair of rollers and the raised portion cooperating with the periphery of said other roller to feed a predetermined length of web to the punch and die mechanism and means to maintain the web in engagement with the periphery of said other roller of the second pair of rollers to assure instant feeding of the web when the raised portion of the first roller of the second pair of rollers engages the web.

2,283,505
METALWORKING PRESS
William F. Longfield, Cleveland, Ohio, assignor to The Cleveland Punch & Shear Works Company, Cleveland, Ohio, a corporation of Ohio
Application August 2, 1940, Serial No. 349,871
10 Claims. (Cl. 113—38)



1. A device of the character described which includes a die mechanism having a plurality of successive dies therein and means for operating said dies in combination with means for feeding blanks into said die mechanism and for transferring stampings from one die to the next succeeding die, said means comprising, an upper conveyor for receiving blanks from a magazine and feeding them into said die mechanism and for moving stampings from a position between successive dies into position in the next successive die, a lower conveyor for receiving stampings from one of said dies and moving them to a position between successive dies, elevator mechanism for elevating stampings from said lower conveyor into position to be engaged by said upper conveyor and means for operating said conveyors and said elevator mechanism in timed relation to each other and to said die mechanism.

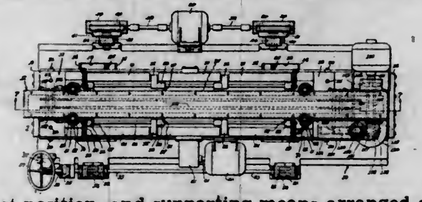
2,283,506
MOTION TRANSFORMING MECHANISM
Ramon Alvarez Moncada, Cordoba, Argentina
Application June 21, 1941, Serial No. 399,187
In Argentina February 8, 1941
1 Claim. (Cl. 74—136)



A motion transforming mechanism comprising a shaft adapted to be driven for rotation in one sense from a source of power including driving parts reciprocating along substantially parallel straight line paths, a pair of free-wheels mounted on said shaft and adapted to rotate in driving engagement with said shaft when turning in said sense and to rotate independently of said shaft when turning in the opposite sense, a rotary direction changing device mounted above said shaft in a plane parallel to the center line of the shaft and tangent to the circumference of said free-wheels, a flexible connection having an intermediate portion partially embracing said direction changing device, a first end portion extending in said plane and anchored at its end to the circumference of one of said free-wheels, a second end portion parallel to the first end portion and anchored at its end to the circumference of the other free-wheel, a first coupling element guided to reciprocate in a path parallel to the first end portion and tangent to the circumference of the respective free-wheel, a second coupling element guided to reciprocate in 180° out of phase relationship with the first coupling element in a path parallel to the path of the first coupling element and tangent to the circumference of the other free-wheel, said coupling elements having means thereon adapted to be operatively associated with the driving parts of said source, a first flexible member having one end connected to said first coupling element and the other end connected to a point on the circumference of the respective free-wheel, a second flexible member having one end connected to said second coupling element and its other end connected to a point on the circumference of the other free-wheel, said flexible members extending parallel to the paths of their respective coupling elements, the point of anchorage of said second flexible connection being circumferentially staggered on the circumference of the second free-wheel with respect to the point of anchorage of the first flexible connection, and the point of attachment of the second flexible member being circumferentially staggered on the circumference of the second free-wheel with respect to the point of attachment of the first flexible member, the lengths of the end portions being such that when the first end portion is wrapped round the circumference of the first free-wheel, the second end portion is fully unwrapped from the second free-wheel, and the lengths of the flexible members being such that when one flexible member is fully unwrapped from one free-wheel, at least a portion of the other flexible member is wrapped round the other free-wheel, the parts being so arranged that unwrapping of the wrapped part of a flexible member in response to movement of the respective coupling element away from the respective free-wheel causes rotation of said free-wheel in driving engagement with said shaft and wrapping on the same free-wheel of the respective end portion of the flexible connection to unwrap the other end portion from the other free-wheel, whereby said other free-wheel is driven in a sense opposite to that of the rotation of the shaft, to wrap on said other free-wheel said other flexible member and maintain tension therein during movement of approach to said other free-wheel of said other coupling element.

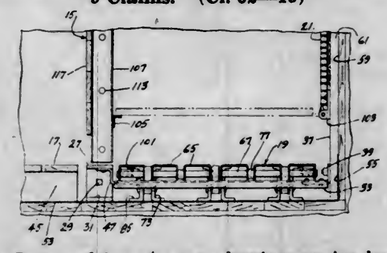
2,283,507
FLASH REMOVING MACHINE
Henry Earl Morton, Muskegon Heights, Mich.
Application September 21, 1939, Serial No. 295,875
11 Claims. (Cl. 90—38)

1. In a machine of the character described, a pair of work supports operable for receiving a work piece therebetween, means operable for moving said supports relatively one to the other into clamping position with respect to the work piece and also into a position spaced from said



first position, and supporting means arranged on one side of the work piece and operable responsive to movement of said supports from said first position toward said second position for bodily moving the work piece into a position spaced from each of said supports.

2,283,508
REFRIGERATION CAR CONSTRUCTION
Arthur F. O'Connor, Chicago, Ill., assignor to Union Asbestos & Rubber Company, Chicago, Ill., a corporation of Illinois
Application January 26, 1940, Serial No. 315,644
9 Claims. (Cl. 62—19)



3. In a refrigerator car having an ice bunker at one end, an ice supporting grate in said bunker, said grate being movable from a horizontal position parallel with and adjacent the floor of the car to an elevated horizontal position, and an ice supporting grate in said bunker pivotally mounted upon a wall of said bunker movable from a vertical position to a horizontal position in substantial alignment with said first named grate when said first named grate is in elevated position.

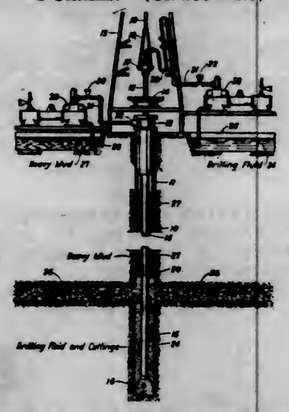
2,283,509
ELECTRIC SWITCH
Johann G. Peterson, West Hartford, Conn.
Application June 22, 1939, Serial No. 280,591
7 Claims. (Cl. 200—67)



1. In a switch actuating mechanism, a toggle actuated member, toggle mechanism having a coiled spring of sufficiently large diameter to have substantially uniform tension and throw, and a plate spring extending through and cen-

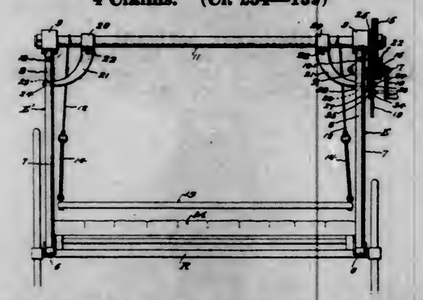
tering said coiled spring and forming a toggle link and having superimposed free end portions maintained in spaced relation by said actuated member and maintaining said coiled spring substantially filled during toggle operation.

2,283,510
METHOD OF DRILLING WELLS
Charles M. Potter, Taft, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
Application June 2, 1941, Serial No. 396,277
4 Claims. (Cl. 255—1.8)



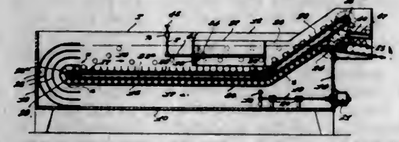
1. A method of drilling a well bore with a drill pipe and drill bit below cavernous or porous subsurface formations comprising the steps of continuously feeding a drilling fluid downwardly through said drill pipe and bit, passing said fluid together with cuttings from said bit upwardly around said pipe within said well bore, maintaining a substantially stationary cap of heavy mud on the fluid in said bore to impose a predetermined hydrostatic head thereon and passing said drilling fluid and cuttings outwardly from said bore under said hydrostatic pressure into a cavernous or porous formation below said cap.

2,283,511
INVALID LIFTING DEVICE
Ira Sellers and Bessie Sellers, Walla Walla, Wash.
Application March 7, 1941, Serial No. 382,269
4 Claims. (Cl. 254—139)



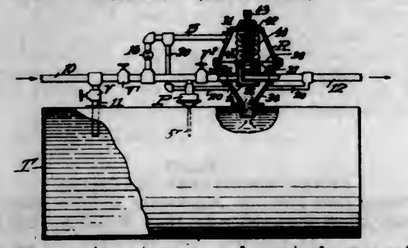
1. In a hoist, two spaced vertical standards and a bearing rigidly carried by the upper ends thereof, one vertical bar having its upper end portion disposed against the outer end of said bearing and formed with an opening alined therewith, a line-winding shaft passing through said bearing and said opening and having a gear at the outer side of said vertical bar, said vertical bar having a lower opening below said gear, one horizontal bar secured to the outer sides of said standards and disposed at the inner side of said vertical bar, a second horizontal bar secured to the inner sides of said standards and having an opening alined with said lower opening of said one vertical bar, a second vertical bar at the outer side of said gear and having an opening alined with those of said one vertical bar and said second horizontal bar, a drive shaft rotatably mounted in these three alined openings and having a pinion meshing with said gear, said drive shaft having an operating crank, and means securing the lower ends of the two vertical bars to said one horizontal bar.

2,283,512
FLOTATION FRUIT SEPARATOR
Richard Sias, Orlando, Fla., assignor to American Machinery Corporation, Orlando, Fla.
Application April 4, 1941, Serial No. 386,925
9 Claims. (Cl. 209—173)



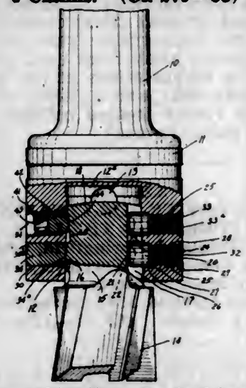
1. A flotation fruit separator comprising a tank for liquid, means for causing said liquid to flow from one end of the tank to the other, an endless conveyor having one end portion of the reaches thereof submerged in said liquid in the tank for a determined distance below its level and extending in a direction in opposition to the flow of the liquid and the other end portion of its reaches rising from the tank to an inclination in the direction of liquid flow, means for delivering fruit to the lower reach portion of said upper unclaimed end of said conveyor, means for actuating said conveyor so that the lower reach moves toward the submerged end of the conveyor, whereby the fruit moved by the lower reach of the conveyor upwardly to the upper reach thereof will rise by its own buoyancy in the liquid in the tank, means for separating fruit floating in the liquid flow, means for deflecting each group of separated fruit to a segregated section on the upper reach of the conveyor, and discharge means associated with each section of said conveyor to receive the separated fruit therefrom.

2,283,513
HOT WATER STORAGE SYSTEM AND PILOT-OPERATED RELIEF DEVICE THEREFOR
Chetwood Smith, Worcester, Mass.
Application January 4, 1940, Serial No. 312,409
4 Claims. (Cl. 137—21)



1. Hot water storage and control apparatus comprising a tank, means to supply cold water thereto, a relief valve in communication with said tank and normally maintained closed by the pressure of water from the cold water supply, and temperature-operated pilot means to reduce the cold water pressure on said relief valve on the occurrence of an excessive rise in temperature of the hot water in said tank, whereon said relief valve will be opened by the pressure of the hot water in said tank on said valve and hot water will be discharged.

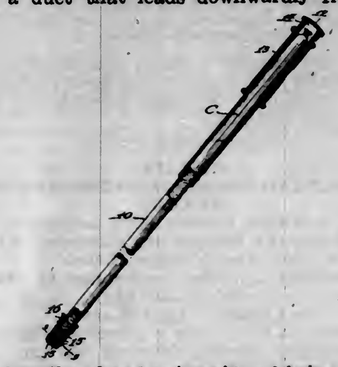
2,283,514
TOOL AND HOLDER STRUCTURE
Arthur Stanworth, Lebanon, Ind.
Application March 6, 1941, Serial No. 381,985
6 Claims. (Cl. 279—83)



1. In the combination of a tool having a short slightly tapered shank, said shank having a longitudinal groove in the shank periphery and a holder having a head portion including a complementary tapered socket therein for tool shank reception, said head portion having a radial bore enlarged in the socket end, said bore enlargement including an inward shoulder, the bore including a thread arrangement, a groove seating driving pin having a head portion providing a shoulder for bore shoulder engagement, said pin head portion projecting into said socket for tool shank longitudinal groove reception, the width of the groove being just sufficient to receive the pin head portion, the pin bore receivable portion having thread means thereon permitting pin threading in the bore for drawing the pin into the bore and securing the shoulders in positive engagement, one end of the pin having a tool engageable portion for effecting such threading, a longitudinally directed surface on the tool shank inclined oppositely to the taper thereof, a threaded bore extending through the socket wall of the head portion, the longitudinal axis of the second mentioned bore being substantially transverse to the inclined surface of the tool shank when seated in the socket, and threaded means in the second mentioned bore having pressure engagement with the longitudinally directed oppositely inclined surface for imposing a force component upon the socket seated shank parallel to the longitudinal axis thereof and the holder and in the shank seating direction.

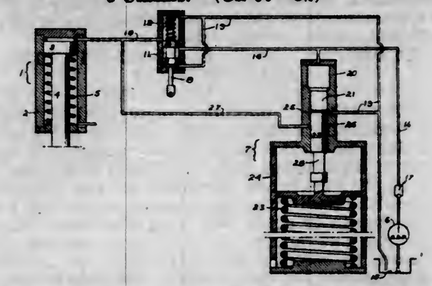
2,283,515
TRAFFIC MARKER ROD
Harry T. Thompson, Hollywood, Calif.
Application November 6, 1940, Serial No. 364,595
5 Claims. (Cl. 91—62.5)

1. A traffic marking device comprising a rod provided in its upper portion with a chamber, a cap removably positioned on the upper end of said rod and closing the upper end of said chamber, the lower portion of the rod being provided with a duct that leads downwardly from said



chamber, the chamber in said rod being adapted to receive a body of pulverized marking material and the distal end of the rod being provided with perforations that communicate with the lower end of the duct in the lower portion of said rod.

2,283,516
HYDRAULIC TRANSMISSION
Ransom Tyler, Greenfield, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin
Application May 24, 1940, Serial No. 336,909
6 Claims. (Cl. 60—52)

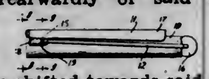


1. In a hydraulic transmission, the combination of a motor, a pump for supplying liquid to said motor, channel means including a valve for connecting said motor either to said pump or to drain, and an accumulator connected at its pressure end to said channel means between said valve and said pump and adapted to be charged by said pump with liquid for operating said motor, said accumulator being provided with means effective during operation of said pump and responsive to said accumulator being nearly discharged for connecting said channel means to drain.

2,283,517
HAIR CURLER
Aniceto R. Visitacion, New York, N. Y., assignor of one-third to Ben J. Chremy, Washington, D. C.
Application February 3, 1941, Serial No. 377,244
28 Claims. (Cl. 132—41)

1. In a curler, the combination of, a mandrel, hair holding means pivotally and slidably guided on said mandrel, and hair clamping means

mounted on said hair holding means and adapted to be shifted away from said mandrel upon movement of said hair holding means longitudinally and rearwardly of said mandrel and



adapted to be shifted towards said mandrel upon movement of said hair holding means longitudinally of and in a direction towards the front part of said mandrel.

2,283,518
PIGMENTED OIL GEL AND METHOD OF MAKING
William A. Waldie, Dayton, Ohio, assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio
No Drawing. Application October 17, 1940, Serial No. 361,612
29 Claims. (Cl. 106—244)

1. A method of making a pigmented oil product comprising reacting fatty oil with an alkali to form a soap, mixing pigment in the form of an aqueous suspension into said soap to thoroughly coat the particles of the pigment therewith, acidifying the mixture to thereby liberate free fatty acids, removing the water which separates out, adding glycerin, and heating the mixture to esterify the fatty acids to produce the glycerides thereof in which the pigment particles are thoroughly dispersed.

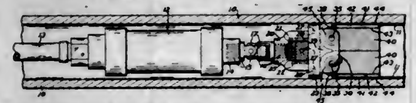
2,283,519
PIGMENTED FATTY ACID GLYCERIDE GEL AND METHOD OF MAKING
William A. Waldie, Dayton, Ohio, assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio
No Drawing. Application October 17, 1940, Serial No. 361,613
16 Claims. (Cl. 106—254)

1. A method of making a pigmented oil product comprising reacting fatty oil fatty acids with an alkali to form a soap, mixing pigment in the form of an aqueous suspension into said soap to thoroughly coat the particles of the pigment therewith, acidifying the mixture to thereby liberate free fatty acids, removing the water which separates out, adding glycerin, and heating the mixture to esterify the fatty acids to produce the glycerides thereof in which the pigment particles are thoroughly dispersed.

2,283,520
PIGMENTED RESIN GEL AND METHOD OF MAKING
William A. Waldie, Dayton, Ohio, assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio
No Drawing. Application October 17, 1940, Serial No. 361,614
13 Claims. (Cl. 106—241)

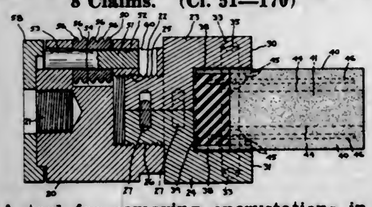
1. A method of making a pigmented resinous gel comprising reacting a resin with an alkali to form an alkali resinate, mixing pigment in the form of an aqueous suspension into said resinate to thoroughly coat the particles of the pigment and deflocculate the pigment therewith, acidifying the mixture of resinous components having the pigment admixed therewith, removing the water which separates out, adding glycerin, and heating the mixture to esterify the resinous components to produce the glycerides thereof in which the pigment particles are thoroughly dispersed.

2,283,521
ABRASIVE DEVICE FOR CLEANING STILL TUBES AND THE LIKE
Hermon G. Weinland, Springfield, Ohio, assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application March 2, 1940, Serial No. 321,951
5 Claims. (Cl. 51—184.1)



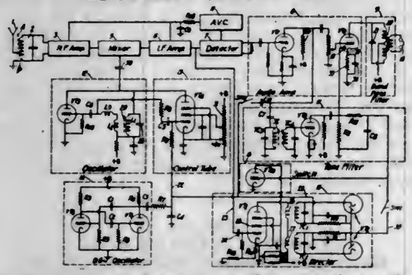
3. A tool for cutting encrustations in a still tube or the like comprising a two-part head, a pair of parallel pins extending between said parts, an abrasive stick pivotally mounted on each of said pins, said abrasive sticks comprising silicon carbide bonded with organic bond, said sticks being free to swing away from each other in the cutting of the encrustations in the still tube as the sticks wear away, and a rubber to reduce vibration, said rubber located between the sticks close to the parallel pins.

2,283,522
ABRASIVE DEVICE FOR CLEANING STILL TUBES AND THE LIKE
Hermon G. Weinland, Springfield, Ohio, assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application April 16, 1941, Serial No. 388,859
8 Claims. (Cl. 51—170)



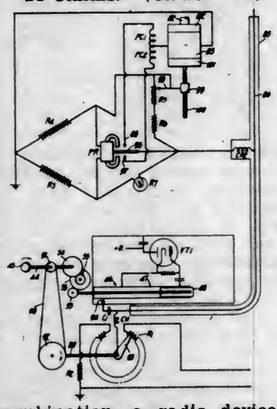
1. A tool for removing encrustations in still tubes and the like comprising a head adapted to be rotated about an axis, an abrasive stick mounted on said head, and a tube gripping member mounted for rotation on an axis skewed with respect to the axis of rotation of the head and connected to the head, whereby to feed the head and the abrasive stick in the tube.

2,283,523
SCANNING RADIO RECEIVER
Sidney Y. White, Wilmette, Ill.
Application February 29, 1940, Serial No. 321,378
14 Claims. (Cl. 250—20)



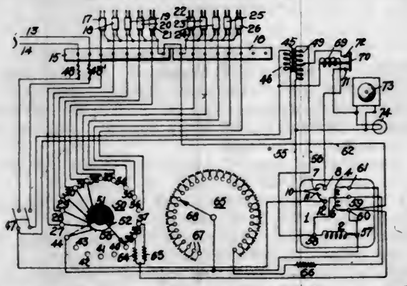
1. A radio receiver adapted to receive a tone modulated carrier wave and comprising a circuit tunable over a range of frequencies but normally untuned to the carrier frequency, automatic means for continuously tuning said circuit over the frequency range, and automatic means responsive to the tone modulations of a single continuous impulse of the tone modulated carrier for rapidly arresting the action of said tuning means and for maintaining said circuit tuned to a desired frequency within said range of frequencies.

2,283,524
ADJUSTABLE ANTENNA DEVICE
Sidney Y. White, Wilmette, Ill.
Application February 29, 1940, Serial No. 321,381
14 Claims. (Cl. 250—33)



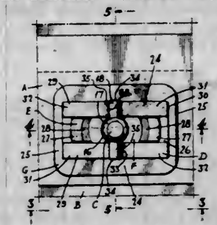
1. In combination, a radio device having a tunable circuit, an adjustable antenna mounted at a point remote from said device, a concentric line for interchanging energy between said antenna and said tunable circuit, a manual control means disposed at the radio device for tuning said circuit over a range of frequencies, a metallic shield adapted to receive the lower end of said antenna and insulated therefrom and means operated by said manual control means for causing the exposed length of the antenna extending beyond the metallic shield to vary in consonance with the resonant frequency of the tunable circuit.

2,283,525
SALINITY INDICATOR AND ALARM
Raymond L. Witham, Mountain Lakes, N. J., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application January 20, 1939, Serial No. 251,901
1 Claim. (Cl. 177—311)



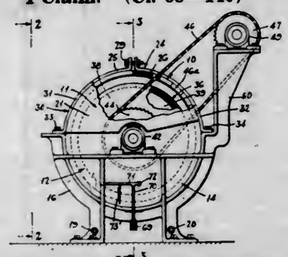
In a salinity alarm system, an alarm, a plurality of testing cells suitable for immersion in a saline solution and variable as to resistance with the salinity of the solution, and a testing circuit connected to said cells including a switch for selecting a group of cells or any individual cell for test purposes, a source of suitable testing potential and a combined indicating and contact making meter actuated in accordance with the resistance of said cell or cells, said meter having a scale graduated in degrees of salinity, a movable pointer readable on said scale, and contact means settable along said scale for actuating said alarm upon deflection of said pointer to the set position, whereby said alarm is caused to operate at a predetermined degree of salinity of a single cell or a selected group of cells.

2,283,526
LATCHING DEVICE
Jeremiah W. Albin, Babylon, N. Y.
Application August 31, 1940, Serial No. 354,962
12 Claims. (Cl. 85—5)



8. A fastening device for two parts having cooperating openings, said parts carrying a turning key and a leaf spring supported double wedge, the key having portions engaging and locking with the said wedge and taking up the resiliency in said spring, said leaf spring being positioned closely parallel to the plate upon which it is mounted and the ends of said leaf spring being bent down toward said plate upon completion of the fastening and latching operation so that the resiliency of said spring has been substantially all taken up and the fastening and latch formed is a substantially rigid one without further play because of the loosenesss of the spring.

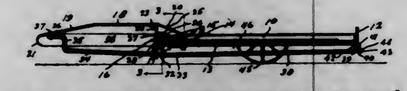
2,283,527
LAUNDRY MACHINE
Ralph Apicella, Jersey City, N. J., assignor to Apex Machinery Co., Newark, N. J., a corporation of New Jersey
Application August 19, 1940, Serial No. 353,207
1 Claim. (Cl. 68—140)



In a laundry machine, in combination with a rotary cylindrical clothes container and a substantially cylindrical tub portion enclosing said container, driven shafts carrying said container and rotatable therewith, said shafts extending through opposite ends of said tub portion, said tub portion being longer than said container,

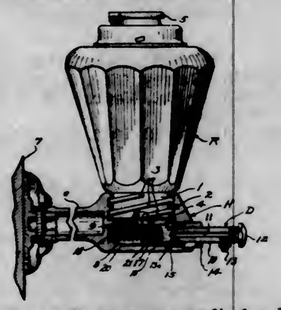
sprocket wheels keyed upon said shafts and situated at opposite ends of said container within said tub portion, frame pieces situated at opposite ends of said tub portion and supporting the same, means carried by said frame pieces for supporting said shafts at opposite ends thereof, each of said frame pieces comprising an extension member extending to one side and above said tub portion, bearings carried by said extension members and situated above said tub portion, a driving shaft having two ends carried by said bearings, sprocket wheels keyed upon said driving shaft, and endless chains extending from each of the sprocket wheels upon the driven shafts to a separate sprocket wheel upon the driving shaft, said chains extending through openings formed in said tub portion.

2,283,528
PICKUP DIVIDER ATTACHMENT FOR GRAIN BINDERS
Frank J. Betz and Michael A. Betz, Gaza, Iowa
Application April 12, 1940, Serial No. 329,330
4 Claims. (Cl. 56—314)



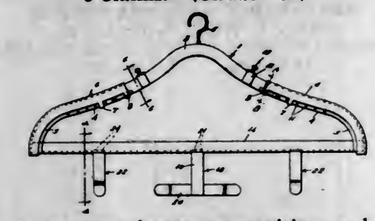
1. In combination with a grain binder and the traveling belt thereof comprising a tapering head member, said member diverging rearwardly toward the binder platform, and including a transverse flange having openings adapted to receive tapered sickle guards, means for bracing said head member against the platform, said head including a forward sloping portion and a rearward sloping portion, said rearward portion positioned adjacently to the binder traveling belt.

2,283,529
DISPENSER FOR LIQUID SOAP AND THE LIKE
Arthur L. Bobrick, San Marino, Calif.
Application December 27, 1938, Serial No. 247,867
3 Claims. (Cl. 221—102)



1. In a liquid dispenser, a cylinder having a liquid intake port, a plunger reciprocable in said cylinder, a spring operative to normally hold said plunger extended, said plunger having an inlet normally disposed out of communication with the liquid containing portion of said cylinder and adapted to be brought into communication with said portion of said cylinder when said plunger is operated a predetermined extent, said plunger also having a liquid dispensing outlet and a passage extending between the inlet and outlet thereof, and means operative on the working stroke of the plunger for closing said intake port and forcing liquid from said cylinder thru said passage and outlet, and operating on the return stroke of the plunger to create a vacuum for withdrawing residual liquid from said passage into said cylinder.

2,283,530
GARMENT HANGER
Michael F. Bohachef, Milwaukee, Wis.
Application September 14, 1940, Serial No. 356,867
5 Claims. (Cl. 223—91)



1. A garment hanger comprising a bar of sheet metal half round tubing including a central arch portion, downturned ends, and intermediate portions between said arch and ends, the open side of the bar comprising the bottom thereof, a pair of extension members also of half round tubing fitting over said portions and ends and slidable on said portions outwardly of said ends into different set positions to extend the length of said hanger said extensions having bottom lugs hooking under said bar to retain the same on the bar, and means to releasably latch the members to said bar in different set positions comprising a resilient U clip for each of said members carried by the lugs of the members within said bar and each having a pair of legs reacting in a separative direction against the sides of the bar.

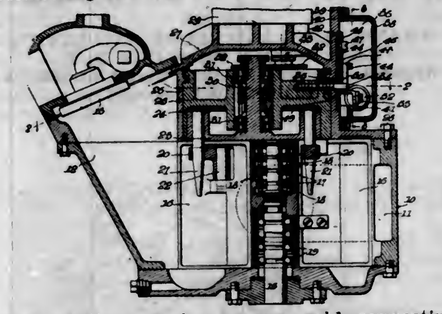
2,283,531
VITAMIN FOOD PRODUCT AND PROCESS OF PRODUCING THE SAME
André E. Briod, Belleville, N. J., and Bernard A. Dombrow, New York, N. Y., assignors to National Oil Products Company, Harrison, N. J., a corporation of New Jersey
No Drawing. Application May 5, 1938, Serial No. 206,200
10 Claims. (Cl. 99—11)

1. A process of producing an edible vitamin fortified material which comprises forming an aqueous slurry of a substantially oil-free oil-bearing seed meal, dispersing therein a material rich in a fat-soluble vitamin, drying the resulting mass and incorporating the dried mass into a food.

2,283,532
THERMALLY ADJUSTABLE METER
Walter S. Brubaker, Oakland, and Armas J. Saarinen, San Francisco, Calif., assignors, by mesne assignments, to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind., a corporation of Indiana
Application April 1, 1940, Serial No. 327,298
6 Claims. (Cl. 73—253)

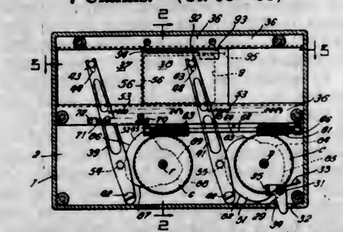
1. In a liquid meter comprising displacement means and a register, means for varying the relation between the volume of the liquid discharged by the displacement means and the volume registered by said register, a thermostat having portions movable relatively to each other in accordance with the change in temperature,

means for subjecting said thermostat to the temperature of the liquid being measured, an adjustable support for said thermostat, means connecting the thermostat to actuate said vol-



ume relation varying means, said connecting means comprising a selectively adjustable motion modifying mechanism, and means for transmitting the movement of said support to said volume relation varying means.

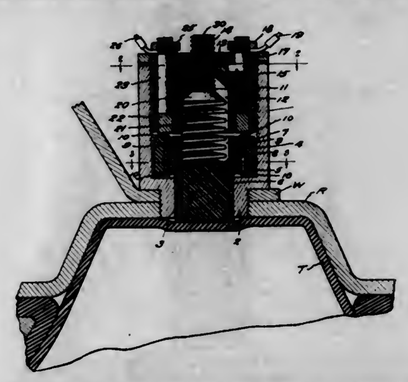
2,283,533
LIGHT SHUTTER
George A. Brueske, Chicago, Ill., assignor to The Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application July 26, 1940, Serial No. 347,675
7 Claims. (Cl. 95—55)



1. In a light shutter, the combination with two exposure opening forming shutter members movable for exposure and relatively movable correspondingly for varying the timing thereof and consequently the exposure opening formed thereby, of means for actuating said shutter members in correspondence for exposure comprising two actuating members respectively operably connected with said shutter members and independently rotatable for imparting the aforesaid movement to said shutter members, a rotatable helical transmission member rotatably connected with one of said actuating members, a second rotatable transmission member rotatably connected with the other of said actuating members and helically engaged in transmitting relation with said helical transmission member to constitute a transmission train between said actuating members, and means for relatively adjusting said transmission members axially of said helical transmission member to adjust the timing of said actuating members.

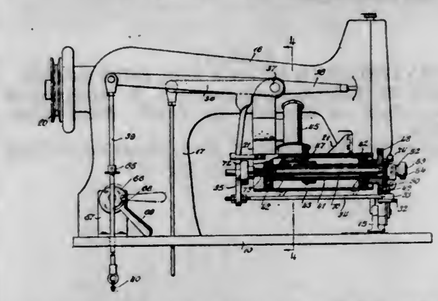
2,283,534
ELECTRICAL SWITCH
William Oliver Bundy, Jr., Charles Sinclair Lewis, and Isidore Erlich, El Paso, Tex.
Application May 6, 1941, Serial No. 392,140
5 Claims. (Cl. 200—58)

1. A pressure responsive electric switch comprising a conductive body having a through bore and means for securing it in operative relation to a pressure containing body, two dielectric members, one fixedly secured in one end of the bore and the other slidable in and extending slightly beyond the other end of the bore, two conductor members extending through the fixed dielectric



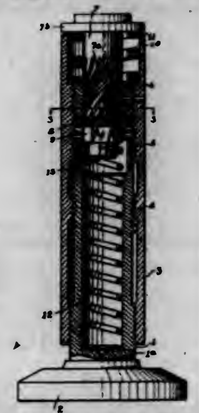
member, conductive means carried by the slidable dielectric member always in electrical contact with one of the conductors in the fixed member and arranged to alternatively contact the conductive body and the other conductor in the fixed member at opposite ends of the stroke of the slidable dielectric member and means normally forcing the two dielectric members apart.

2,283,535
SEWING MACHINE
Lawrence G. Burkey, Cresson, Pa., assignor to S. Liebovitz & Sons, Inc., Myerstown, Pa., a corporation of New York
Application June 5, 1940, Serial No. 338,828
19 Claims. (Cl. 112—132)



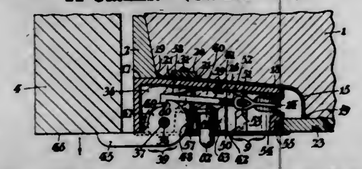
1. In a sewing machine, a shirring member for forming plaits in a fabric, a carrier for said member, an operating shaft, a constantly driven element actuated by said shaft and having concentric and eccentric positions relative thereto, a driving connection between said driven element and said carrier for operating the latter when said driven element is eccentrically disposed relative to said shaft, a slidable actuator movable longitudinally of and extending through said shaft to shift said driven element from its concentric to its eccentric position, a releasable support for maintaining said shirring member inactive while said driven element is concentric to said shaft, and means to simultaneously release said support and operate said actuator.

2,283,536
MECHANICAL CLEARANCE REGULATOR
Otto M. Burkhardt, Cleveland, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio
Application October 18, 1937, Serial No. 169,642
8 Claims. (Cl. 123—90)



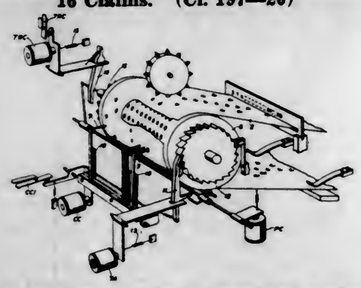
1. An automatically adjustable clearance regulator adapted for assembly and for reciprocation as a completely self-contained unit in the valve linkage of an internal combustion engine, comprising companion members having resiliently-acting inclined surface interengagement with respect to the direction of linkage operation, for relative longitudinal adjustment between said members in either direction for either taking up or providing clearance, and resiliently-acting means extending in the path of the linkage operation and having inclined surface engagement with one of said members for operative connection therewith so as to automatically actuate the same and thereby effect the required longitudinal adjustment between said members in accordance with the length of the valve linkage at any given time.

2,283,537
CONTROLLING DEVICE FOR FIRE DOORS
Philip W. Burnham, Summit, N. J., assignor of one-half to Richard D. Ward, Wilmington, Del.
Application November 25, 1940, Serial No. 367,028
11 Claims. (Cl. 189—47)



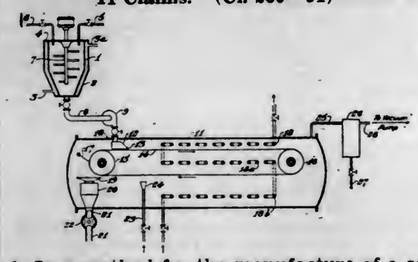
1. A controlling device for sliding fire-doors comprising in combination, a lock assembly including a pivotal stop for coaction with the edge of the door, to hold said door open, and a cam portion having a radial edge; a spring influenced member in the lock assembly capable of longitudinal and lateral movement, said member having a tooth engageable with the cam portion radial edge to hold the pivotal stop in active position; a fusible link assembly including an attachment member, and a relatively movable adjuster means, connected to one end of the fusible link; and a flexible coupler operatively coordinating the other end of said fusible link to the spring influenced movable member for tension influencing the stop counteractively with respect to the door.

2,283,538
TRANSLATING AND RECORDING DEVICE
Edgar H. Clark, Forest Hills, N. Y.
Application August 21, 1937, Serial No. 160,294
16 Claims. (Cl. 197—20)



1. A translating system comprising a plurality of code receiving units each having a group of two-position symbol identifying means, a plurality of character setting means adapted to be selectively responsive to the setting of two or more of said groups of symbol identifying means in their alternate positions to complete the translation of a received code by the selection of a group of one, two or more of said character setting means, a printing device having a plurality of character recording elements representing letters, numerals and signs of the alphabet, a plurality of sequence control links normally serially connected and each alternately connected to condition one of said character setting means for printing control, said sequence control links being arranged in the order of the desired order of printing for said selected character setting means in said selected group and each being connected to be operative into its alternate connection, in response to a received code, each of said character recording elements being responsive to one of said conditioned character setting means, and timed advancing means connected for timing the sequential operation of successive sequence control links at predetermined intervals for advancing the printing control.

2,283,539
METHOD FOR THE MANUFACTURE OF SOLID POLYMERS OF VINYL AROMATIC COMPOUNDS
William R. Collings, Donald L. Gibb, and Gordon P. Schmelter, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application May 16, 1939, Serial No. 274,042
11 Claims. (Cl. 260—91)

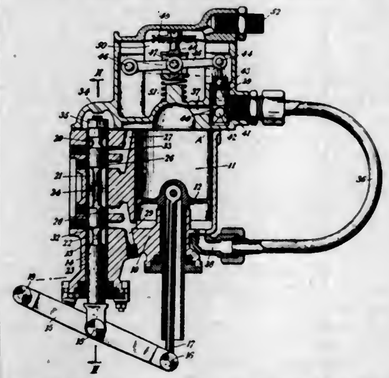


1. In a method for the manufacture of a solid polymer of a vinyl aromatic compound from the monomeric vinyl aromatic compound, the steps of heating the vinyl aromatic compound to form a liquid solution of its polymer, applying the solution as a layer on a solid surface, heating the layer at subatmospheric pressure to vaporize the solvent therefrom, cooling the residual polymer to reduce its plasticity, removing the polymer as porous slabs from the surface, and pulverizing the porous slabs.

2,283,540
COMPOSITION FOR TREATING LEATHER AND PROCESS FOR PREPARING THE SAME
Gifford D. Davis, South Orange, and Ralph E. Porter, East Orange, N. J., assignors to National Oil Products Company, Harrison, N. J., a corporation of New Jersey
No Drawing. Application April 28, 1939, Serial No. 270,690
20 Claims. (Cl. 149—6)

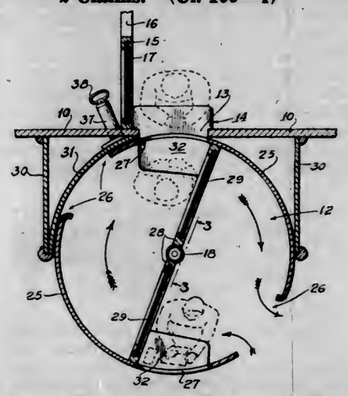
2. A process of fatliquoring leather which comprises treating the leather with an emulsion of a sulfated oil having a pH value between about 5 and about 6, and containing between about 0.5% and about 5% of an organic nitrogen compound selected from the group consisting of amides, thiamides, and reaction products thereof with constituents of the sulfated oil.

2,283,541
SERVOMOTOR
Edward Dodson, Putney Heath, London, England
Application September 26, 1940, Serial No. 358,414
In Great Britain October 21, 1939
5 Claims. (Cl. 121—41)



1. A hydraulic servo motor comprising a unitary casing including a body and a head detachably mounted on the body, a cylinder in the casing body extending through an end thereof in register with the head, a piston in the cylinder, a piston valve construction controlling the supply of pressure fluid to the cylinder and located in the casing at one side of the cylinder, operating mechanism connecting the piston and the valve at the end of the casing opposite to the head and a piston by-pass construction including a passage extending into the head and connecting the ends of the cylinder, a valve in the passage located in the casing head, and valve actuating mechanism located in said head, including a spring arranged to move the valve into open position, and fluid pressure actuated means including a pressure chamber for closing the valve.

2,283,542
ANTIHOLDUP CASHIER'S CAGE
Benjamin L. Dorsey, Los Angeles, Calif.
Application June 12, 1940, Serial No. 340,117
2 Claims. (Cl. 109—4)



1. In an anti-holdup cashier's cage, the combination with a wall in which is formed a cashier's wicket, an upright member mounted for rotation in front of said wicket, oppositely arranged walls carried by said upright member, a circular wall carried by said upright member and said oppositely disposed walls, said circular wall being provided with oppositely arranged entrance and exit openings and with oppositely arranged openings adapted to register with the cashier's wicket and a fixed curved wall positioned so as to close one of the entrance and exit openings in said curved wall when an adjacent one of the openings in the curved wall is in registration with the cashier's wicket.

2,283,543
HAIR DRESSER'S PIN SUPPORT
Grace Draper and Viola Randle, Sonora, Tex.
Application December 14, 1940, Serial No. 370,179
2 Claims. (Cl. 24—13)

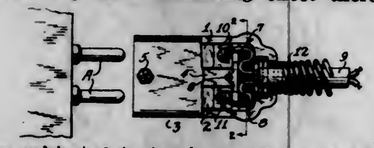


2. An article of manufacture comprising an ovate tray with a magnet having its poles inside the bottom of the tray and the poles exposed to pins contained in the tray, the field of the magnet being outside the tray and means secured to the field portion of the magnet for fastening the article to a wearer's shoulder in an inclined operative position.

2,283,544
ELECTRIC PLUG
George Eaton, Cleveland, Ohio, assignor to May C. Eaton
Application October 6, 1937, Serial No. 167,553
1 Claim. (Cl. 173—322)

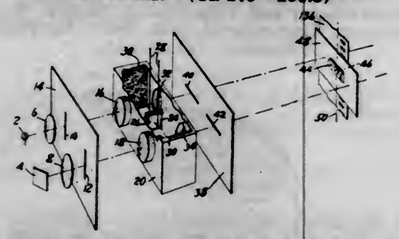
An electric plug comprising a chambered insulation body longitudinally divided into two sections, a plurality of terminals within said body for connection of the electric wires thereto, said body having an aperture for passage of the electric cable therethrough, and anchoring means

transversely disposed within said body and between said aperture and terminals, for relieving said wire connections from any strain to which the electric cable might be subjected outside of said body, said anchoring means comprising an insertable block of electric insulation material having two companion sets of passages for the two wires, each set having an odd multiple number of substantially parallel transversely spaced communicating passages each extending in a direction lengthwise of the plug so as to constitute a tortuous combined passage of substantially reversed U-shape through which each wire extends and thereby cause a binding effect thereupon



when subjected to tension, said combined passages both occupying substantially the same transverse plane and terminating at their outer ends at fixed points substantially to the rear of their respective terminal connections, said block having polygonal shaped means of body engagement, and said body sections being formed with a recess seat means of corresponding polygonal form and dimensions for receiving the polygonal-shaped means of said block and snugly seating the same therein, said recess seat means being formed in the companion sections of the body so as to hold said block between said body sections and against movement longitudinally of the plug or in any other direction when in assembly.

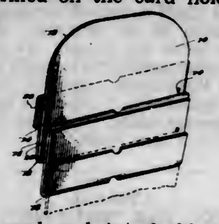
2,283,545
LIGHT MODULATING METHOD AND APPARATUS
John Presper Eckert, Jr., Philadelphia, Pa.
Application July 20, 1940, Serial No. 346,670
12 Claims. (Cl. 179—100.3)



1. Apparatus for the modulation of light comprising means containing a light transmitting liquid, means for producing frequency modulated supersonic waves in said liquid, means for projecting light through said liquid to produce a spectrum movable in accordance with the variations of frequency of said waves, and means for recording the spectrum movements on a sensitized film.

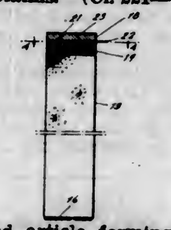
2,283,546
CARD HOLDER
Rens William Fischer, San Diego, Calif., assignor of fifty per cent to Morton Schreiber, San Diego, Calif.
Application May 23, 1940, Serial No. 336,830
2 Claims. (Cl. 40—63)

1. A display card holder comprising a base plate for attachment to a wall surface, a horizontal slot formed in the base plate, a card holding unit removably secured in the slot and a trough formed on the card holding unit for



receiving a card and interlocking engagement with additional card holding units.

2,283,547
SALT DISPENSER
David Otis Ford, Petersburg, Va.
Application July 9, 1938, Serial No. 218,263
9 Claims. (Cl. 221—61)

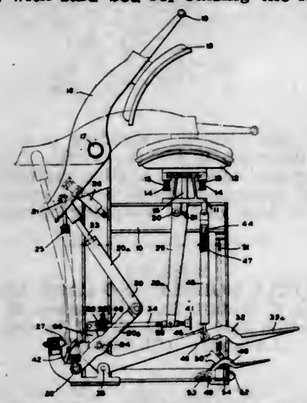


9. A packaged article forming an individual condiment container and shaker of cylindrical, cigarette-like form provided at one end with a flat bottom closure forming a base for supporting the article in upstanding position, the side of the article including a single sheet of paper-like material, initially of rectangular form rolled into its cigarette-like form, with its long flap-forming edges slightly overlapping and secured together to form the cylindrical side of a receptacle composed, except for said overlapping edges, solely of a single thickness of material to provide a package which can be easily manipulated and distorted from its initial form by the fingers of the user to eject its contents, the outer side of said receptacle providing a cylindrical surface adapted to be printed thereon, said article provided with sifter openings at all times exposed to the interior of the receptacle and a flap of paper-like, easily torn material forming a part of the article additional to that part which forms the cylindrical side of the receptacle and not necessarily contributing to its structural strength, said flap normally covering the outer side of the sifter openings, and providing a narrow elongated finger piece at all times located external to the cylindrical side of the receptacle and the outer end of said flap being loose so as to be engaged readily by the finger of the user to tear off the flap from the balance of the article and thus expose the sifter holes without tearing any part of the cylindrical side of the article and thus without affecting the appearance of the outer side of the cylinder.

2,283,548
FOOT OPERATED PRESS
Charles A. Fischer, Norwood, Ohio, assignor to The American Laundry Machinery Company, Norwood, Ohio, a corporation of Ohio
Application April 1, 1938, Serial No. 199,360
9 Claims. (Cl. 38—25)

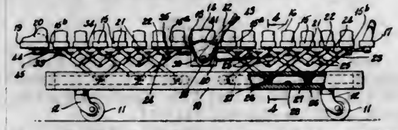
1. In a pressing machine, a frame, a head lever

pivotally mounted intermediate its ends on said frame, a pressing head carried at one end of said lever, a toggle connected between the other end of said lever and said frame, a bed mounted in said frame for vertical movement and adapted to coact with said head, a lever pivoted in said frame and having arms of different lengths, the shorter of said arms having an operative connection with said bed for raising the latter into



pressure engagement with said head, a treadle having an operative connection with the longer arm of said last named lever adapted to move said last named lever in bed-raising direction upon depression of said treadle, and a part of said treadle being arranged to engage a part of said toggle when said head is in pressing position to hold said head in pressing position during depression of said treadle.

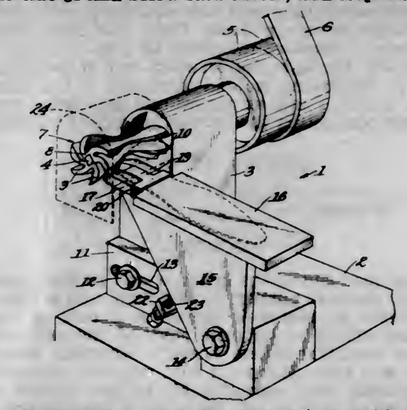
2,283,549
COT
Frank E. Galbraith, Atlanta, Ga.
Application August 27, 1940, Serial No. 354,378
11 Claims. (Cl. 128—71)



1. In a body stretching apparatus a series of spaced body support pads on which is adapted to repose a human body for stretching by said support pads, and pivoted lever means supporting and interconnecting said body support pads, and pivotally movable to space said body support pads different distances relatively to one another.

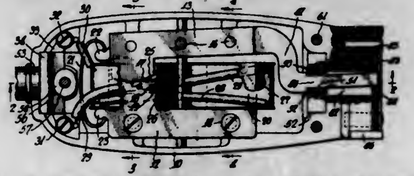
2,283,550
APPARATUS FOR BEVELING THE HEEL PORTIONS OF SHOE INSOLES
William E. Gordon, Columbus, Ohio, assignor to The Walker T. Dickerson Company, Columbus, Ohio, a corporation of Ohio
Application October 27, 1939, Serial No. 301,656
6 Claims. (Cl. 12—17)

1. A machine for beveling the heel portions of shoe insoles comprising a frame, a shaft journaled for rotary movement on said frame, a cutter carried by said shaft, said cutter having longitudinally extending blades, the diameter of said cutter decreasing from the ends toward the central portion thereof to cause said blades to possess arcuate cutting edges, a work supporting member pivotally mounted on said frame at one side of and below said cutter, and stop means



for limiting the pivotal movement of said supporting member with the work receiving surface thereof substantially tangent to the smallest diameter of said cutter.

2,283,551
VIBRATORY ELECTRIC MOTOR APPARATUS
John A. Hanley, Norston, Conn., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
Application June 19, 1937, Serial No. 149,055
12 Claims. (Cl. 172—126)

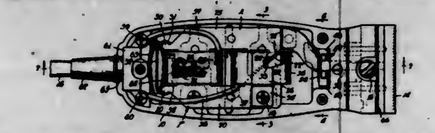


1. A vibratory electric motor of the character described, comprising a magnetic frame including a fixed field structure and an armature with an associated electromagnet coil, the magnetic end face of said armature at one end thereof having thrust bearing engagement with the magnetic end face of said field structure, said bearing comprising a depression in the end face of one of said elements of wider angularity and a projection on the end face of the other element of narrower angularity to permit rocking movement of the armature relative to the field structure, said armature and field structure having spring anchors adjacent said thrust bearing and a leaf spring connecting said anchors and resisting the approach of said armature to said field structure.

2,283,552
VIBRATORY ELECTRIC MOTOR APPARATUS
John A. Hanley, Noroton, Conn., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
Application January 21, 1940, Serial No. 316,498
16 Claims. (Cl. 172—126)

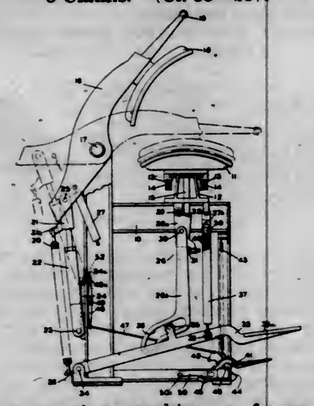
14. In apparatus of the character described, an insulating casing an electric vibratory motor therein including a field structure securely mounted therein, an armature having a rocking thrust bearing mount near the rear end thereof

with respect to said field structure, anchor extensions unitary with the respective arm and field structures at the rear ends thereof, a leaf spring connecting said two structures and biasing said armature away from said field, said armature structure including an arm protruding centrally through the forward end of said casing an insulating molded connector in the common plane of said armature and operating arm, rigidly connecting the forward end of the former



to the rear end of the latter, a well in the casing about the rear portion of said arm, and a buffer assembly in said well including a pair of soft rubber blocks at opposite sides of the arm and sheet metal retainers therefor through which said arm extends, one of said retainers partially embracing the respective blocks and lodged in the bottom of the well, the other of said retainers being pressed by the end of said insulating connector against said rubber blocks.

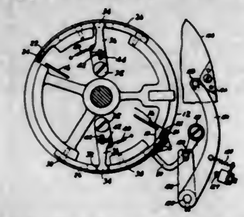
2,283,553
FOOT OPERATED PRESS
Fred A. Heidenfelder, Chicago, Ill., assignor to The American Laundry Machinery Company, Norwood, Ohio, a corporation of Ohio
Application April 15, 1938, Serial No. 202,250
8 Claims. (Cl. 38—25).



1. In a pressing machine, a frame, a bed mounted for vertical movement in said frame, a head movable into and out of pressing position over said bed, a head holding latch dog adapted to be engaged between said frame and said head when the latter is in pressing position, a lever pivoted in said frame and having a short arm operatively engaging said bed to raise the latter into pressure engagement with said head, said lever having a long arm extending downwardly, and a foot treadle operatively connected with said long arm so as to raise said bed by depression of said treadle.

2,283,554
KNITTING METHOD AND MACHINE
Harold E. Houseman, Laconia, N. H., assignor to Scott and Williams, Incorporated, Laconia, N. H., a corporation of Massachusetts
Application November 1, 1940, Serial No. 363,822
19 Claims. (Cl. 66—135)

1. A circular knitting machine of the superposed cylinder type comprising upper and lower cylinders, needles arranged to slide in said cylinders, wrap yarn feeding means, an element arranged to support wrap yarn in the wrapping



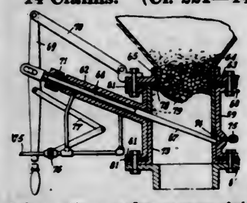
operation, said element extending in a circumferential direction inside the circle of needles, and means for effecting relative movement between said element and the needle cylinders at least at the time of the wrapping operation.

2,283,555
BOTTLE HOLDER AND CARRIER
George H. Hutaff, Jr., Wilmington, N. C.
Application July 1, 1941, Serial No. 400,674
2 Claims. (Cl. 294—87)



1. A bottle holder and carrier including a stationary member, a movable member connected thereto, the movable member being adapted for movement into position to permit the reception of the neck of a bottle between the members and then positioned for cooperation with the stationary member to support the bottle therefrom, and a member carried by the movable member and engageable with the stationary member for preventing spreading of the members from bottle-supporting position.

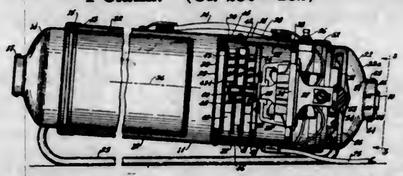
2,283,556
VALVE
Lewis C. Karrick, Salt Lake City, Utah
Original application December 11, 1933, Serial No. 701,838. Divided and this application December 5, 1938, Serial No. 244,071
14 Claims. (Cl. 221—145)



1. A quick-acting valve comprising an upright casing having an opening for the passage of material therethrough, a groove inside said casing, a lining extending inside the upper portion of said casing, a separate lining extending inside the lower portion of said casing, the adjacent ends of said linings having a space between them registering substantially with said groove, a valve gate acting in the space between the adjacent ends of said linings, means for actuating said valve gate to close said opening, means controlled by said actuating means to admit a fluid under pressure through said groove to dislodge particles

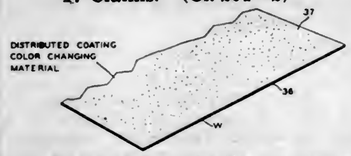
of said material, and adjustable means intermediate said casing and said linings to permit adjustment of said space.

2,283,557
SUCTION CLEANER OUTLET CONSTRUCTION
Elmer J. Kasper, Cleveland, Ohio, assignor to The P. A. Geier Company, Cleveland, Ohio, a corporation of Ohio
Application March 13, 1939, Serial No. 261,475
1 Claim. (Cl. 230—132)



Outlet construction for the outlet end of a tank type suction cleaner provided with a series of air passage openings of various sized areas including, a first tubular outlet neck having its inner end connecting and communicating with the outlet end of the tank, an air stop flange extending radially inwardly from the outer end of the first tubular neck, the stop flange having a central opening of an area reduced with respect to the area of the outlet end of the tank, and a second tubular outlet neck having its inner end connected and communicating with the reduced opening of the flange, the second tubular neck having a wall which is internally convexly curved outwardly and forming an interiorly convexly curved annular shoulder between the stop flange and the other extremity opening of the second neck, and the minimum area of the opening of the second neck being equal to the area of the smallest of said air passage openings of various sized areas in the cleaner.

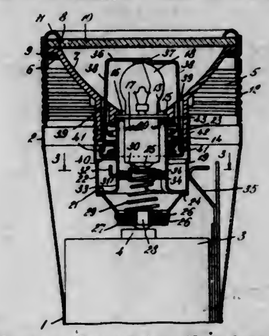
2,283,558
ELECTRICALLY CONDUCTIVE PAPER AND METHOD OF PRODUCING THE SAME
Bernard L. Kline, Manhasset, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application June 18, 1937, Serial No. 149,024
17 Claims. (Cl. 204—2)



11. An electrically conductive paper product comprising a sheet of paper having a solid solution of an electrolyte dissolved in a solid oxygen containing solvent formed in the body of said sheet.

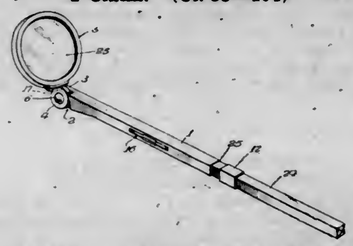
2,283,559
HAND LAMP
Walter R. Kopp and David Emerson, New Haven, Conn., assignors to Western Cartridge Company, New Haven, Conn., a corporation of Delaware
Application April 11, 1941, Serial No. 388,118
6 Claims. (Cl. 240—11.3)

1. A portable hand lamp comprising a reflector having a central opening, the reflector being provided with a seat adjacent said opening and being provided with a threaded boss surrounding said opening, a lamp engaging the seat to properly position it in the reflector, the lamp having a base terminal, a sleeve surrounding the base of the lamp to retain it in position, a yieldable contact mounted in the sleeve and engaging the base terminal of the lamp, a member secured to the



threaded boss and engaging the sleeve to retain it in position, a circuit breaking member arranged within the reflector over the lamp bulb, the ends of said member extending through the reflector, and means for causing the circuit breaking member upon breakage of the lamp bulb to move the yieldable contact out of engagement with the base terminal of the lamp.

2,283,560
INSPECTION TOOL
Frank P. Kretchmer, Los Angeles, Calif.
Application April 7, 1941, Serial No. 387,129
1 Claim. (Cl. 88—104)



An inspection tool of the character described for mechanical inspection purposes comprising an elongated handle, a sleeve slidably mounted on the upper end of said handle, said sleeve having an opening, said handle having at its lower end a circular end portion, a head having a circular portion rotatably attached to and in frictional contact with said circular end portion of said handle, a mirror attached to said head, said circular portion of said head having an opening adjacent its circumference, a rod having an outwardly extending projection at its upper end extending into said opening of said sleeve for engagement of said sleeve, said rod extending into said handle and a brake member formed integrally with said handle and positioned between said sleeve and said head, said rod engaging in frictional contact with said brake member, said rod having an inwardly extending bend on its lower end extending within said opening in said circular portion for engagement of said circular portion, said sleeve adapted upon receipt of direct manual movement to slide along said handle to move said rod and rotate said head and mirror into desired oblique positions with respect to

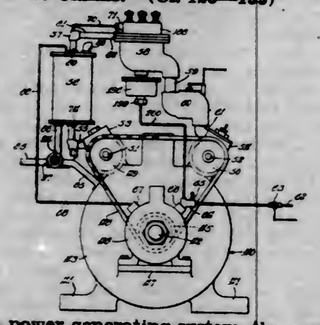
said handle, said head being held in said oblique positions by the frictional engagement of the circular end portion of the handle with the circular portion of said head and the frictional engagement of said rod with said brake member.

2,283,561
MITTEN
Edward C. Lindfelt, Des Moines, Iowa
Application March 25, 1940, Serial No. 325,828
1 Claim. (Cl. 2—158)



In a mitten, a tubular casing closed at one end, said casing having a back and front of relatively non-stretchable material, an elastic gathering around the open end of said casing, and a strip of material forming a connection between said back and said front of said casing, said strip being relatively stretchable in a direction circumferentially of said casing, and relatively non-stretchable in a direction longitudinally of said casing, said strip extending longitudinally of said casing from the open end thereof to a point past the part of said casing occupied by the knuckles of the third joint of the wearer's hand.

2,283,562
VAPORIZING APPARATUS
William Lister, Chicago, Ill.
Original application May 27, 1939, Serial No. 276,253. Divided and this application December 21, 1939, Serial No. 310,455
15 Claims. (Cl. 123—133)

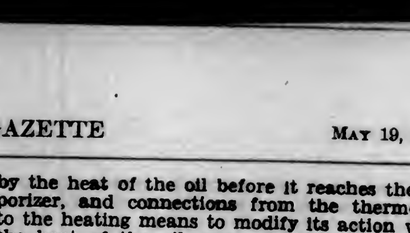


1. In a power generating system, the combination with an explosion engine and air compressor, of a vaporizer, a conduit leading from an oil supply to said vaporizer, means for forcing oil through said conduit, means for heating the oil as it passes through said conduit before it reaches the vaporizer, a thermostat controlled by the heat of the oil before it reaches the vaporizer, and connections from the thermostat to the heating means to modify its action when the heat of the oil approaches a certain predetermined degree before it reaches the vaporizer.

2,283,563
TREATMENT OF WELLS
Orlin W. Lyons, Tulsa, Okla., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application January 19, 1940, Serial No. 314,693
5 Claims. (Cl. 166—21)

1. In a method of removing a section of well casing comprised essentially of a ferrous metal with a highly corrosive chemical solution which boils when chemically dissolving a ferrous metal, the steps which consist in filling the casing with the corrosive chemical solution adjacent the section to be removed, and thereafter applying pressure upon the corrosive chemical solution in an amount sufficient to prevent the solution from boiling.

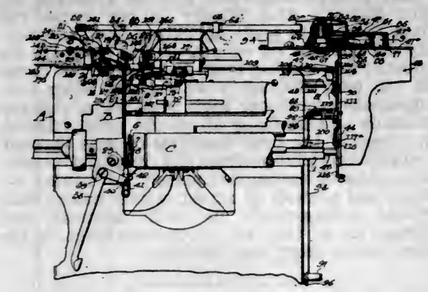
2,283,564
DRILLING MUD
Eldon A. Means, Wichita, Kans., assignor, by direct and mesne assignments, of forty-two and one-half per cent to William Carpenter, Scott City, forty-two and one-half per cent to L. R. Kester, Garden City, Kans., and fifteen per cent to Carl Bingesser
Application June 21, 1939, Serial No. 280,231
3 Claims. (Cl. 252—8.5)



1. A mud for use in oil and gas wells, comprising a suspending agent of nontronite and a sealing agent of preflocculated (large particle size) Colorado clay.

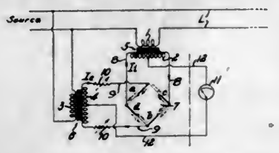
2,283,565
TYPEWRITING MACHINE
William Otto Michelsen, Woodhaven, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a corporation of New York
Application April 30, 1940, Serial No. 332,538
32 Claims. (Cl. 197—66)

1. In a typewriting machine, a frame; a carriage mounted thereon for letter-spacing and return movements; power-operated means for driving the carriage in return movement direction; and mechanism for controlling said power-operated means comprising a manually operable key, connections between and associated with said key and said power-operated means for effecting operation of said power-operated means and sustained carriage return drive during continued manual depression of said key, selectively operable holding means for maintaining said power-operated means operative to effect sustained carriage return drive following momentary depression of said key, a selector movable to two set positions for rendering said holding means respectively operable or inoperable, and means for



mounting said selector for releasably maintaining it in either of its set positions.

2,283,566
THERMAL CONVERTER CIRCUIT
John H. Miller, Short Hills, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application April 8, 1939, Serial No. 266,846
20 Claims. (Cl. 171—95)



1. A thermal converter circuit for producing a direct current voltage proportional to the product of two current inputs; said circuit comprising a plurality of thermocouples conductively connected in the balancing arms of a direct current Wheatstone bridge network, an input circuit connected to said network to establish a current flow therein, a second input circuit connected to said network at spaced points therein between which the potential established by the first input circuit is zero, and a direct current output circuit conductively connected to said network at spaced points between which zero potential difference is established by said input circuits and between which a direct current potential is established by said thermocouples upon a current input into said network from both input circuits.

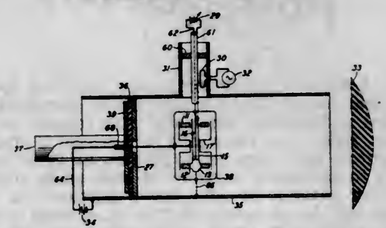
2,283,567
WELDING TORCH
James Barton Nealey, Wilton, Conn.
Application June 25, 1940, Serial No. 342,256
4 Claims. (Cl. 158—27.4)

2. A one piece mixing unit for the conduit of a torch or the like comprising a perforated base plate having a central opening and a central perforated extension closed at one end and extending from the base plate in the direction of the flow of a combustible mixture of commingled gases so that the mixture passing through the mixing unit will be caused to pass through the perforations in the base plate and central extension and impinge upon one another, the perforations formed in the base plate being larger in diameter than those formed in the extension but less in number so that the volume of the mixture passing through the base plate will approximate the volume of the mixture passing through the



extension, and means on the base plate for securing the same to the conduit of the torch.

2,283,568
ULTRA HIGH FREQUENCY SYSTEM
Russell S. Ohl, Little Silver, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 18, 1940, Serial No. 341,128
2 Claims. (Cl. 172—281)

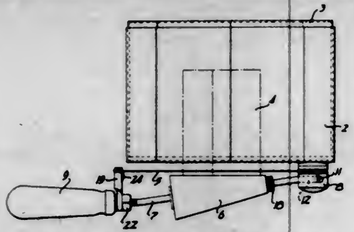


2. In an ultra-high frequency electrical system, a source of high frequency oscillations, an electronic vacuum tube, having a cathode and an anode, a source of direct current voltage, said source of high frequency oscillations and said source of direct current voltage being connected electrically in series in the cathode-anode circuit of said electronic vacuum tube, the said source of voltage being poled and proportioned, with respect to the amplitude of the oscillations of said high frequency source, to bias said vacuum tube beyond the upper knee of its saturation curve to an extent such that each negative half cycle of said source of oscillations produces a pulsation of the current in said cathode-anode circuit of only the duration required for a half cycle of a particular predetermined ultra-high frequency.

2,283,569
SLICER
Florian B. Pedersen, Alameda, Calif.
Application March 3, 1939, Serial No. 259,580
5 Claims. (Cl. 31—28)

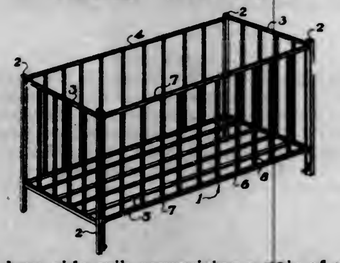
3. A slicer comprising a support for material to be sliced, a cutting frame pivotally mounted at one end to the support and terminating in a handle at the other end, a cutting element carried by the frame for movement relative to said

material, and a guide roller journaled on the cutting frame about an axis extending longitudi-



nally of said element and transversely of the pivot axis of said frame.

2,283,570
DROP-SIDE CRIB
Leslie Peltier, Delphos, Ohio, assignor to The Delphos Bending Company, Delphos, Ohio, a corporation of Ohio
Application June 3, 1940, Serial No. 338,477
3 Claims. (Cl. 5—100)

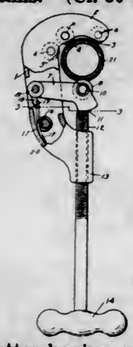


1. A drop-side crib comprising a pair of spaced vertical corner posts, a side frame arranged between and slidable vertically with respect to said posts, guide rods on which said frame is slidably mounted, said rods being pivoted at their upper ends to adjoining portions of said posts, pivoted devices carried by the lower portions of said posts for the reception of the lower ends of said rods, stationary studs projecting from the corner posts intermediately of their lengths, and means carried by the lower portions of said side frame for engagement with said studs, whereby to retain the side frame in an elevated position of crib closure.

2,283,571
METHOD OF MAKING FLOUR
Glenn H. Perrigo, Pittsford, N. Y., assignor to Victor Flour Mills, Inc., Pittsford, N. Y.
Application January 28, 1939, Serial No. 253,439
11 Claims. (Cl. 83—42)

1. The improved process of making a germ and aleurone containing flour from wheat grains in which substantially all parts of the grains except the fibrous parts of the wheat berry are incorporated, which comprises severing the cellular parts of the bran from the fibrous skin layers of the bran of said grains while subjecting the grains, in a substantially untempered condition and with less moisture content than possessed by grain when milled in making ordinary white flour, to the gradual reduction process of milling with sifting operations at intervals to remove particles substantially of flour fineness, and regrinding of the remaining coarser particles with the germ left in the ground grains and continued through the reduction system, until substantially all of the grain particles except the fibrous skin layers of the bran are of flour fineness, and during said gradual reduction process, reducing the grains initially and rapidly in the break roll system thereof to such an extent that substantially 7.8 percent by weight of the stock of the ground grains coming from the first set of break rolls will pass through a #86 screen sifter with 86 openings per linear inch, separating out and discarding substantially all of the purely fibrous skin layers of the bran that fail to pass through an approximately horizontally disposed screen, having substantial approximately horizontal gyrations and a mesh of screen which passes only particles substantially of flour fineness, and blending all of the rest of the particles of the milled grains from said process.

2,283,572
PIPE CUTTER
Thorvald Petersen, Erie, Pa., assignor to Reed Manufacturing Company, Erie, Pa., a corporation of Pennsylvania
Application November 13, 1940, Serial No. 365,476
4 Claims. (Cl. 30—102)



1. In a pipe cutter having a shank, a nose on the shank, an adjusting means, a plurality of rollers in the nose providing pairs with different spacings, the combination with said shank, nose, adjusting means and rollers of a swinging arm actuated by the adjusting means and pivotally mounted with relation to the shank, a roller on the arm, the arm placing its roller in position to oppose a pair of rollers widely spaced at one angle of the arm and to oppose a pair of rollers less widely spaced at another angle of the arm, at least one of the rollers having a cutting edge.

2,283,573
METHOD OF WATERPROOFING AND PREVENTING EFFLORESCENCE OF MORTAR IN MASONRY
James B. Pierce, Jr., Charleston, W. Va., assignor to Standard Ultramarine Company, Huntington, W. Va., a corporation of West Virginia
No Drawing. Application December 24, 1938, Serial No. 247,645
5 Claims. (Cl. 106—314)

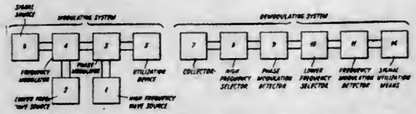
1. The method of making a highly water-repellent and substantially non-efflorescent mortar for masonry, comprising incorporating with a mortar, belonging to the group consisting of lime mortar and Portland cement mortar and containing an appreciable amount of a water-soluble, efflorescence-forming compound belonging to the group consisting of an alkali metal sulphate and an alkaline earth metal sulphate, an amount of barium stearate which is at least substantially the chemical equivalent of any such water-soluble compound and effecting thereby the precipitation in situ in such mortar of barium sulphate and calcium stearate.

2,283,574
PANEL SECURING MEANS
Howard G. Pillsbury, Detroit, Mich., assignor to Chamberlin Metal Weather Strip Company, Detroit, Mich., a corporation of Michigan
Application April 19, 1941, Serial No. 389,275
6 Claims. (Cl. 189—84)



1. A structural unit including two open frame members, a foraminous panel extending across the opening in said unit and having foraminous edge portions, and affixed, at said edge portions, between said members, the adjacent faces of said members having outwardly flaring edges defining a peripherally extending channel surrounding the said panel edge portions and opening outwardly, and retaining means for holding said panel edge between said frames comprising a low melting point metal filling strip fused into said channel and interpenetrating the foraminous edge portions of said panel.

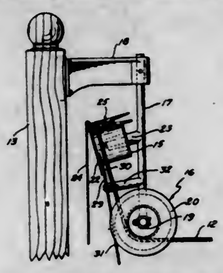
2,283,575
HIGH FREQUENCY TRANSMISSION SYSTEM
Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 19, 1938, Serial No. 202,826
6 Claims. (Cl. 250—6)



1. The method of signalling within a channel of given width which includes the steps of, varying the instantaneous frequency of a substantially constant amplitude auxiliary wave as a function of signal voltage and utilizing said modulated auxiliary wave to continuously vary the phase of a higher frequency wave between fixed limits of phase swing, the amplitude of said auxiliary wave being such as to reduce to a negligible value at least one low order component of the resulting spectrum within said channel.

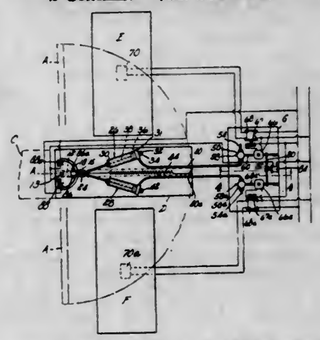
2,283,576
CLOTHESLINE SUPPORT
Carl I. Robinson, Danbury, Conn.
Application May 14, 1940, Serial No. 335,037
4 Claims. (Cl. 254—190)

1. A clothesline support comprising an upright fixed support, a pair of wheels arranged with their axes in substantially the same plane mounted on the lower part of said support, a third wheel arranged with its axis above the axes of the first wheels in a plane between the first wheels and extending rearwardly therefrom, an arm extending rearwardly from the upright support on which said third wheel is mounted, and means for mounting the wheels on said support and arm to leave the space under the first wheels free so that a line carrying clothes can pass under one of the first two wheels, over the top of the third wheel and then under the other of the first wheels, and said third wheel includ-



ing a drum portion over which the line passes and of sufficient width to permit the clothespins to lie substantially parallel with the surface of the drum.

2,283,577
APPARATUS FOR OPERATING DOORS
Sheldon S. Roby, Meriden, Conn., assignor to The Stanley Works, New Britain, Conn., a corporation of Connecticut
Application March 9, 1939, Serial No. 260,726
2 Claims. (Cl. 268—34)

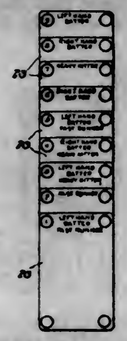


1. In combination with a double acting swinging door having a closed position, a pair of operators associated therewith, each of said operators having one end pivotally mounted on fixed pivots normally equally spaced to each side of the door and their other end fixed to a common pivot carried by the door, said operators being adapted when the door is closed to initiate swinging movement of the door in opposite directions, and, when the door is moved to a position whereat the fixing pivots are located on the same side of the door are adapted to move the door in the same direction, and continually operative means for individually actuating said operators.

2,283,578
BASEBALL GAME
James S. Rogers, Haverford, Pa.
Application April 18, 1941, Serial No. 389,108
4 Claims. (Cl. 273—93)

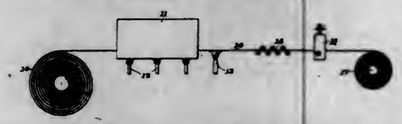
1. In a game simulating the game of baseball, a plurality of objects representing two teams of batters for association in succession with a diamond, certain of said objects having indicia thereon designating certain playing characteristics of the batters thereby represented, respectively, and a plurality of playing cards for play-

ing hands, each card having indicia thereon directly designating a specific play or action of the



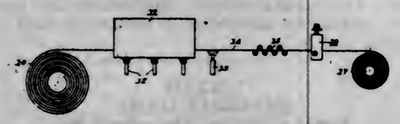
game governing the action of said batters when at bat or in the field, respectively.

2,283,579
APPARATUS FOR PLANING COATED STRIP
Louis Sandler, New Castle, Pa., assignor to Johnson Bronze Company, New Castle, Pa., a corporation of Pennsylvania
Application September 19, 1939, Serial No. 295,594
6 Claims. (Cl. 90—25)



1. A device for finishing the surface of a layer of bearing metal bonded to a backing strip, comprising a tool-holding block having a transverse slot through which the strip may be drawn, a rounded abutment extending across the block and into one side of the slot, and a planing tool adjustably mounted on the block for movement into the other side of said slot with its cutting edge in substantial alinement with said abutment.

2,283,580
METHOD OF SURFACING THE BEARING METAL LAYER OF COMPOSITE BEARING STOCK
Louis Sandler, New Castle, Pa., assignor to Johnson Bronze Company, New Castle, Pa., a corporation of Pennsylvania
Original application September 19, 1939, Serial No. 295,594. Divided and this application October 16, 1940, Serial No. 361,396
2 Claims. (Cl. 29—149.5)



1. In a method of making bearing stock, the steps including chilling and roller leveling a backing strip having a layer of bearing metal bonded thereto, then pulling it between a planing edge extending the full width of said layer, and an abutment engaging said backing strip, thereby removing the top portion of said layer in a single cut and providing a surface finished to a high degree of smoothness.

2,283,581
LUBRICANT
Sebastian R. Scaletti, Paterson, N. J., assignor of fifty per cent to The Belt Grip Co., Paterson, N. J.
No Drawing. Application January 22, 1940, Serial No. 315,023
1 Claim. (Cl. 252—25)

A lubricating compound composed of 94% of an oily base and containing 3% of zinc sulfide well dispersed therein, 3% of barium sulfate for retarding the decomposition of the zinc sulfide by overheating between movable parts of machinery.

2,283,582
WALL PANEL
Odin L. Scherer, Newfane, N. Y., assignor of one-half to Cornelis De Lange, Lockport, N. Y.
Application January 5, 1940, Serial No. 312,586
1 Claim. (Cl. 20—92)

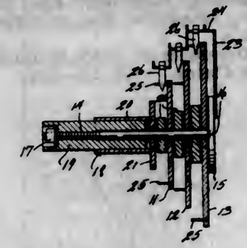


A wall panel of the class described comprising a plurality of rectangular-shaped members having their side faces connected together to provide a laminated structure, all the members being of the same width and length, said panel being composed of four members with two of the members in alignment with respect to each other and the other two members being out of alignment relative to the aligned members and also out of alignment with respect to each other to provide tongues and grooves at the edges of the panel adapted to mate with tongues and grooves in adjacent panels, said tongues and grooves extending around all four sides of the panel, the corresponding edges of all of said members being substantially in parallel relation.

2,283,583
AMUSEMENT DEVICE
Henry Singer, Honolulu, Territory of Hawaii, assignor of one-half to Charles Edison Ludin, Honolulu, Territory of Hawaii
Substituted for abandoned application Serial No. 319,971, February 20, 1940. This application October 10, 1941, Serial No. 414,544
5 Claims. (Cl. 273—142)

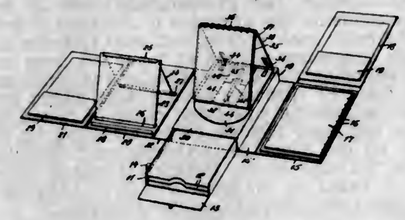
1. An amusement device, comprising a shaft, a pair of spaced non-rotating members traversed by said shaft, one of said members being movable longitudinally of the shaft, an indicia bearing disk rotatably supported on the shaft between said members, an indicator supported above the shaft for coaction with the indicia upon said disk, and a handle slidably supported upon the

shaft and connected with said movable member for effecting the movement of said member rela-



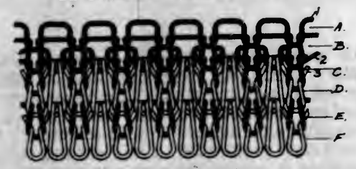
tive to the disk for effecting frictional braking of the rotation of the disk.

2,283,584
SALESMAN'S PRESENTATION KIT
Roland Hoyt Sloan, New Brighton, N. Y.
Application April 5, 1940, Serial No. 327,934
3 Claims. (Cl. 281—16)



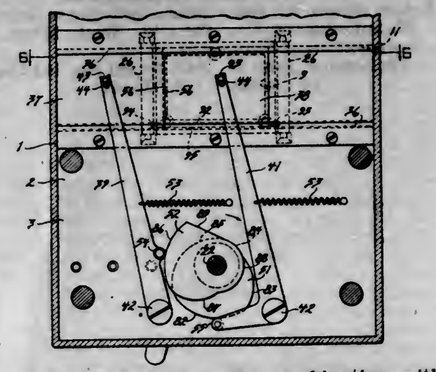
2. A salesmen's presentation kit comprising a receptacle having compartments for storing presentation units, the top of the receptacle forming a support, each unit comprising a flat turn table sheet adapted to be pivoted on said support by a detachable pivotal connection, including coacting means on the sheet and support, a panel pivoted along one edge to said turn table sheet, a second panel pivoted to the outer edge of said first panel, means at the junction of said panels for pivotally supporting exhibit sheets, and means between said panels for spreading said panels apart about their pivotal connection and for limiting the spreading movement.

2,283,585
KNITTED FABRIC AND METHOD
William L. Smith, Jr., Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application December 6, 1939, Serial No. 307,844
11 Claims. (Cl. 66—172)



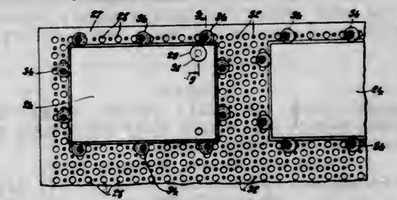
1. A selvage for a knitted fabric having elastic courses including a course in which elastic yarn has been incorporated at alternate wales, a following course of the same elastic yarn knitted at the same alternate wales and in combination therewith, a second elastic yarn knitted at all wales.

2,283,586
LIGHT SHUTTER
Bruno Stechbart, Chicago, Ill., assignor to The Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application February 28, 1940, Serial No. 321,252
12 Claims. (Cl. 95—55)



1. In a light shutter, the combination with two exposure opening forming shutter members movable for exposure and relatively movable correspondingly for varying the exposure opening formed thereby, of means for actuating said shutter members in correspondence for exposure comprising two relatively rotatable actuating members respectively operative on said shutter members, rotatory driving means connecting said actuating members and operative to constantly maintain the same in fixed angular relation, and adjustable means operative on said driving means for varying the timing of said actuating members whereby to vary said exposure opening.

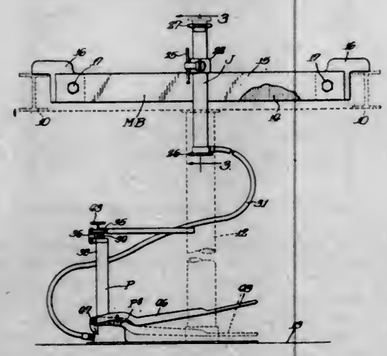
2,283,587
METHOD AND APPARATUS FOR REGISTERING SUPERIMPOSED PRINTINGS
Warner Steinbach, Maplewood, N. J.
Application April 3, 1941, Serial No. 386,600
7 Claims. (Cl. 101—401.2)



1. Method of registering superimposed printings in a multi-color printing process involving the use of a plurality of master plates and electrotypes made therefrom, which consists in preparing an assembly plate provided with a system of coordinated reference marks, supplying said master plates with indices in definite relation to a portion common to them all, converting the indices on said electrotypes corresponding to the indices on said master plates into reference marks registrable with the reference marks on said assembly plate, placing the electrotypes corresponding to one of said master plates on said assembly plate in predetermined positions by registering the reference marks of the electrotypes with a predetermined set of reference marks on said assembly plate, securing said electroplates to said

assembly plate in said predetermined positions, and repeating this operation for each one of the other master plates.

2,283,588
VEHICLE JACK STRUCTURE
Ernest Strom, St. Paul, Minn., assignor to Vulcan Manufacturing Co., Inc., St. Paul, Minn., a corporation of Minnesota
Application June 24, 1940, Serial No. 342,135
10 Claims. (Cl. 73—51)



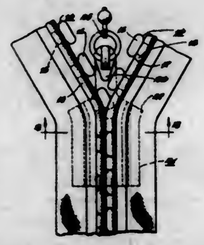
1. In a vehicle jack structure, a mounting bar adapted to span the lifting rails of an automobile lift, a jack member carried thereby and adjustable longitudinally of said mounting bar, means for adjusting the elevation of said jack member relative to said mounting bar, said jack member comprising extensible cylinder and piston means, a pump for pumping oil to said cylinder and piston means to effect extension thereof, a second pump, and a flexible hose connecting said second pump hydraulically with said cylinder and piston means, said second pump being adapted to effect relative reciprocation of said cylinder and piston upon operation of said second pump, and having a foot lever adapted to be alternately depressed and released for effecting such reciprocation.

2,283,589
AGENT FOR ACCENTUATING PERFUMES AND FOOD FLAVORS AND PROCESS FOR PRODUCING THE SAME
Charles H. Stuart, Newark, N. Y.
No Drawing. Application November 17, 1939, Serial No. 305,043
7 Claims. (Cl. 99—140)

1. The process for production of an accentuating agent for essences agreeable to the senses of taste and smell, and their synthetic analogues, which comprises extracting copra, from which the oil has been largely expressed, but which otherwise contains subtantially all its original natural constituents, with aqueous ethyl alcohol of a concentration of not over substantially 60 per cent.

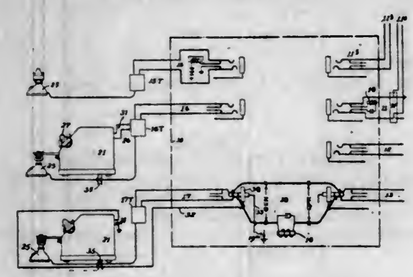
2. As a new article of commerce, the product resulting from the extraction of copra, from which the oil has been largely expressed, but which otherwise contains substantially all its original natural constituents, by means of aqueous ethyl alcohol of a concentration of substantially 40 to 60 per cent.

2,283,590
MULTIPLE OPERATED FASTENER
Gideon Sundback, Meadville, Pa., assignor to Talon, Inc., Meadville, Pa., a corporation of Pennsylvania
Application December 27, 1940, Serial No. 371,873
6 Claims. (Cl. 24—205)



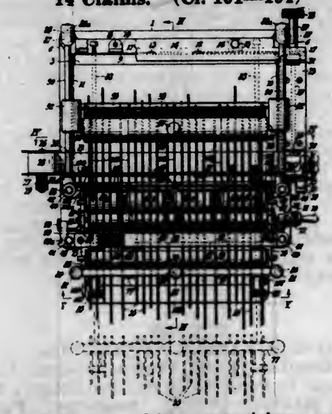
6. Fastening means for a bag, pouch or the like which has two walls with free edges to be fastened together, two co-operating series of fastener elements one of which is attached directly to the inner face of each wall, said fastener elements consisting of bars of T-shaped cross section perpendicular to the edges of the walls, and said fastener elements having interlocking portions cooperating with each other to fasten the same together, flexible cords attached to the walls on the inside faces thereof and extending along the ends of the fastener elements, and a pair of beads on the outer surfaces of the walls opposite said series of fastener elements.

2,283,591
TELEPHONE ANSWERING SYSTEM
Harry R. Van Deventer, New York, N. Y., assignor to Peatrophone Corporation, New York, N. Y., a corporation of Nevada
Application December 14, 1940, Serial No. 370,109
6 Claims. (Cl. 179—6)



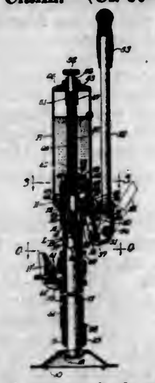
1. In a telephone system, a master trunk, a secondary trunk, an extension line, a telephone connected to said extension line, means connecting said extension line to said master trunk, a second telephone connected to said secondary trunk, a phonograph connected to said second telephone and having a record thereon adapted when said phonograph is actuated to deliver a message over said second telephone to the party connected to the outer end of said secondary trunk, means for actuating said phonograph operated by impulses received via said secondary trunk, and means for interconnecting at will any of said trunks and lines for two-way conversation.

2,283,592
PRINTING MACHINE
Maurice B. Willis, Haddonfield, N. J., assignor of one-half to Charles C. Morrison, Philadelphia, Pa.
Application May 20, 1941, Serial No. 394,274
14 Claims. (Cl. 101—194)



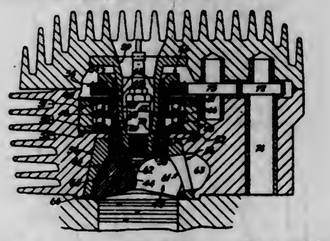
1. A printing machine comprising a platen for supporting a sheet which is to be printed; a plurality of printing bars; a holder in which the bars are arranged side by side and secured with capacity for being individually adjusted in the direction of their lengths to project to different extents beyond the holder and over the platen; a supporting carrier in which the bars are slidable endwise as a group; and means for moving the platen and the carrier relatively to effect contact between the printing bars and the sheet.

2,283,593
HYDRAULIC BUMPER JACK
Clifford M. Akins, Minneapolis, Minn., assignor to Marquette Manufacturing Co., Inc., Minneapolis, Minn., a corporation of Minnesota
Application December 30, 1940, Serial No. 372,308
1 Claim. (Cl. 60—52)



A hydraulic bumper jack comprising a supporting base, a plunger having the longitudinal axis thereof extending vertically upward in normal operative position, a lifting cylinder telescopingly receiving said plunger, a separate head in axial alignment with and surmounting the cylinder, a cylindrical reservoir in axial alignment with the head and plunger having the lower edge in sealed engagement with the head at the perimeter thereof and having a separate closure member at the other end, said head having a boss extending upwardly within the lower end of the reservoir and surrounded thereby, an axially aligned recess in the boss and a tubular tie rod secured in said recess between the head and the closure member for anchoring said reservoir and closure to the head, said head having an oblique pump chamber extending from the lower end thereof upwardly into the boss whereby the pump chamber axis lies at an acute angle relative to the axis of the jack, a pump intake passage in the boss between the lower end of said reservoir and the pump chamber having a check valve and fitting therein, a discharge passage between the pump chamber and the interior of said lifting cylinder having a check valve and fitting therefor within the boss, a by-pass extending between said discharge passage, said tubular tie rod and said reservoir having a valve seat therein, an elongated valve element for said valve seat extending through said tie rod having a manual control outside of the closure member, a pump plunger and a pump handle pivoted to the head loosely anchored to the pump plunger having a normal inoperative position adjacent and substantially parallel to the reservoir and having an operative position angularly outward therefrom.

2,283,594
INTERNAL COMBUSTION ENGINE
Frank Metcalf Aspin, Bury, England
Application July 6, 1936, Serial No. 89,115
In Great Britain July 23, 1935
5 Claims. (Cl. 123—190)

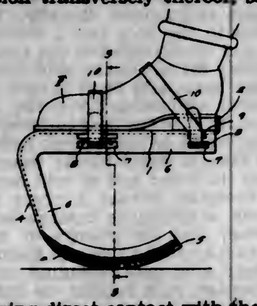


1. An internal combustion spark-ignition engine comprisng a cylinder, a piston reciprocally mounted in the cylinder, a rotary valve member operatively mounted on the head-end of the cylinder, a dome-like-shaped combustion chamber in the valve member having curved walls and an opening into the cylinder, the major portion of the chamber and of the opening being positioned on one side of the axis of rotation of the valve member, and a port in a wall portion of the chamber remote from the axis of the valve member and serving to permit the exhaust of gas from the chamber; said curved walls merging into the outer edges of the port, said piston, cylinder and chamber being so proportioned and arranged that when the piston is in the position producing maximum compression the chamber constitutes substantially all of the compression space.

2,283,595
STILT
James G. Banister, Chicago, Ill.
Application January 27, 1940, Serial No. 316,049
5 Claims. (Cl. 36—7.5)

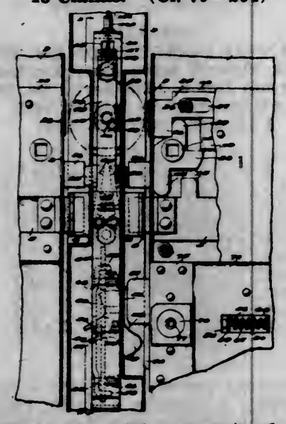
1. A stilt comprising an elongated rigid member, and means for securing the member to the foot of a person, said member having a bottom

surface curved in a direction lengthwise of the member and also curved at all points therealong in a direction transversely thereof, said bottom



surface having direct contact with the ground or the like, the curvatures of the bottom surface permitting the stilt to have rocking movement lengthwise and transversely thereof.

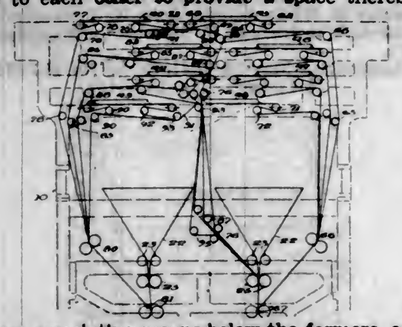
2,283,596
DOOR LOCKING MECHANISM
William M. Barbour, Roanoke, Va.
Application July 20, 1939, Serial No. 285,616
13 Claims. (Cl. 70—264)



1. The improvement in apparatus for simultaneously locking a pair of hinged vehicle doors whose free edges are adapted to abut an interposed jamb, said improvement consisting of mechanism mounted in said jamb for simultaneously locking both of said doors against being opened from the outside of the vehicle, means for moving said mechanism into and out of locking position, and a pair of stop members mounted in said jamb respectively cooperable with said mechanism for preventing movement thereof to locked position while said doors are open, said stop members being respectively adapted to be moved by the doors as the latter are closed, into positions rendering them inoperative to prevent movement of said mechanism into locking position.

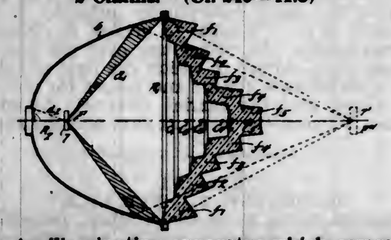
2,283,597
ASSOCIATING MECHANISM FOR PRINTING MACHINES
Herman P. Clauberg, Hasbrouck Heights, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York
Application October 15, 1940, Serial No. 361,369
17 Claims. (Cl. 270—41)

1. In a printing machine, separate formers positioned side by side and movable laterally relative to each other to provide a space therebe-



tween, associating means below the formers, and means for guiding printed ribbons down between the formers to the associating means.

2,283,598
ILLUMINATING APPARATUS
Maurice Décalion, Paris, France, assignor to Societe pour la Fabrication des Projecteurs Electriques Marchal (Societe Anonyme), Pantin, France, a company of France
Application August 2, 1939, Serial No. 288,011
In Luxembourg May 11, 1939
2 Claims. (Cl. 240—41.3)



1. An illuminating apparatus which comprises in combination, a source of light, a reflector cooperating with said source of light having in section by a plane passing through its axis the shape of a portion of an ellipse, the first focus of which coincides with said source of light, and a lens comprising concentric steps, including a central step and an outer step, associated with said reflector, the respective foci of said steps being in coincidence with the second focus of said ellipse and the focal length of the steps increasing progressively from the central to the outer step.

2,283,599
CASE FOR CLINICAL THERMOMETERS
Fairleigh S. Dickinson, Rutherford, N. J.
Application July 24, 1939, Serial No. 286,145
4 Claims. (Cl. 206—16.5)

1. A casing for a thermometer having a bulb end and a rounded end, comprising an elongated container provided with a cap, resilient means at the lower end of the container to support the bulb end of a thermometer and to maintain the rounded upper end of the thermometer in interlocked engagement with the under surface of said cap, said elongated container having a length greater than the length of the thermometer to be inserted therein and said resilient means being capable of contracting when pressure is exerted on the upper end of the thermometer to enable the thermometer to be wholly inserted in said container and being capable of advancing

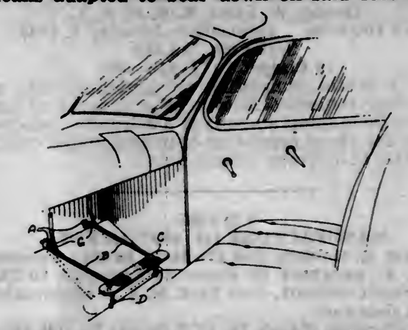
the thermometer so that its upper end projects out of the top of the container when such pressure is removed, said cap being pivotally connected to said container and movable transversely of the latter directly from and to its interlocked position with the thermometer, the under surface of said cap having relatively flat portions and a substantially hemispherically shaped recess to receive the upper rounded end of the thermometer and to form an interlocked connection with the same in the closed position of the casing, the center of curvature of said recess being located below the under surfaces of said relatively flat portions of the cap to prevent substantial binding of the cap against the thermometer top as the former is moved transversely away from its interlocked closed position, the side surfaces of the recess during such movement of the cap functioning as cam surfaces and coacting with the



upper rounded end of the thermometer to depress the thermometer against the resilient means until the top of the thermometer engages the relatively flat portions of the under face of the cap, whereupon, on further transverse movement of the cap, the resilient means are free to raise the upper end of the thermometer above the upper level of the container, the relatively flat portions of the under side of the cap, on reverse transverse movement of the cap, engaging the thermometer top in depressed position and maintaining the thermometer depressed in the container until the side surfaces of the hemispherically-shaped recess are presented to enable said resilient means to advance such end of the thermometer into the recess, thereby causing such end under the pressure of said resilient means to participate in centering itself within the recess in the cap and thereby to lock the cap against unintentional opening.

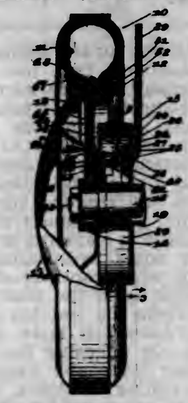
2,283,600
FOOTREST
Ann C. Dodson, Detroit, Mich.
Application July 20, 1939, Serial No. 285,570
1 Claim. (Cl. 155—165)

A foot rest for use in conjunction with the front passenger seat of an automobile in which there is an inclined floor board associated with a dash board comprising a pair of supports mounted adjacent to the dash board end of said inclined floor, a pair of arms hinged to said supports, a foot rest mounted on the outer end of said arms, a pair of movable legs hinged to said foot rest on an axis at right angles to the first mentioned hinges and adapted to be folded under said foot rest and to be unfolded so as to serve as two supporting legs for said foot rest, spring means adapted to bear down on said foot rest



to hold said legs when unfolded firmly against the floor to prevent rattling.

2,283,601
INDICATOR MECHANISM FOR TIRES
Elmer Erickson, Lake Orion, Mich.
Application December 20, 1940, Serial No. 371,024
1 Claim. (Cl. 200—58)

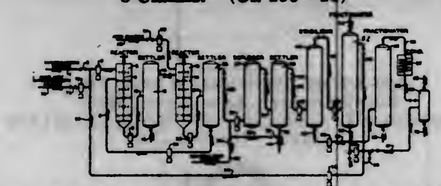


In a demountable wheel, a housing having one end open and secured to the wheel in concentric relation thereto, a radially disposed rod mounted for reciprocation on the wheel and having a head in engagement with the inner tube in the casing of the wheel, a spring urging the head against the inner tube but normally maintained against movement by a predetermined pressure within the tube, a stationary plate secured to the axle housing of the vehicle and closing the open end of the housing, annular contacts and an annular insulated member separating the contacts mounted on the inner face of the plate, a shaft parallel to the horizontal axis of the wheel and rockably mounted in the housing with one end of said shaft projecting externally of the housing, a switch arm secured at one end to and located within the housing end of the shaft, the free end of the arm movable over the contacts and insulated member and normally out of engagement with either contact when the tire is fully inflated, a lever located externally of the housing and pivotally connected at one end to the rod, the other end of the lever being secured to the other end of the shaft so that when the rod is reciprocated said arm will be rocked and move the free end of the arm over the contacts successively.

2,283,602
GREASE AND LUBRICANT
George W. Fiero, Buffalo, N. Y.
No Drawing. Application January 9, 1940, Serial No. 313,042
18 Claims. (Cl. 252—37)

1. A grease comprising an aluminum soap of a higher saturated fatty acid, a mineral oil and a relatively small amount of a substance selected from the group consisting of hydrogenated castor oil and 12-hydroxy stearic acid.

2,283,603
MANUFACTURE OF MOTOR FUEL
Arthur R. Goldsby and Frank H. Bruner, Beacon, N. Y., assignors, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application March 18, 1938, Serial No. 196,669
8 Claims. (Cl. 196—10)

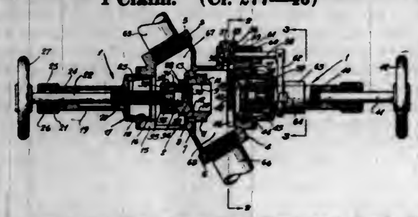


1. A cyclic process for the manufacture of high anti-knock motor fuel from low-boiling hydrocarbons containing isobutane, normal butane and olefins, which comprises continuously introducing into an agitated reaction zone containing an alkylation catalyst a charge of hydrocarbons containing substantial proportions of isobutane and olefins and also a substantial proportion of normal butane, and reacting the hydrocarbons therein in liquid phase under conditions such that the isobutane is alkylated by the olefins to form normally liquid hydrocarbons within the gasoline boiling range, continuously withdrawing reaction products from the reaction zone to a settling zone where the reaction products separate into a hydrocarbon layer and a catalyst layer, continuously removing hydrocarbon from the hydrocarbon layer and catalyst from the catalyst layer, adding additional catalyst to the reaction zone to make up for that withdrawn, stabilizing the removed hydrocarbon to separate off-gases therefrom, fractionating the off-gases from the said stabilization to separate a fraction rich in isobutane and lean in normal butane, and continuously recycling the said isobutane fraction to the reaction zone to maintain a substantial excess of isobutane to olefin therein, the said isobutane fraction being sufficiently denuded of normal butane to thereby reduce the proportion of normal butane in the reaction zone during continuance of the process to a proportion substantially below that in the fresh hydrocarbon charge to said zone.

2,283,604
METHOD OF MAKING SPONGE RUBBER
Marion M. Harrison, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application January 25, 1940, Serial No. 315,622
3 Claims. (Cl. 260—723)

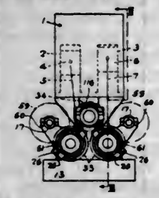
3. The method of making sponge rubber which comprises subjecting an aqueous dispersion of a rubber material in a closed container to dichloro difluoro methane gas under a pressure substantially higher than the surrounding atmospheric pressure and thereafter releasing the pressure in the container whereby the pressure on the dispersion is lowered to atmospheric and the dispersion is expanded to a porous state by the dichloro difluoro methane.

2,283,605
VALVE
Frank W. Johnson, South Pasadena, Calif.
Application December 16, 1940, Serial No. 370,330
1 Claim. (Cl. 277—46)



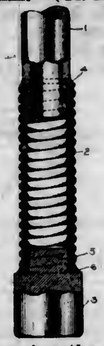
A device of the character disclosed, including a casing having inlet and outlet portions and a partition wall within the casing between said portions, a valve seat carried by said partition, a bonnet secured to said casing, a pair of segmental shutters within the casing on the outlet side thereof, intermeshing gears carried by said shutters, a shaft for actuating said gears to close or separate said segmental shutters, a swing lever carried by said shaft, and a sleeve slidably movable relative to said bonnet for engaging said swing lever to hold said swing lever to position the segmental shutters open or closed, and a valve protected against fluid impact when the shutters are closed and allowed to seat against said valve seat member when the shutters are open.

2,283,606
TWIN BANK ENGINE
Frank M. Lewis, Weston, Mass., assignor to American Locomotive Company, New York, N. Y., a corporation of New York
Application April 10, 1941, Serial No. 387,885
12 Claims. (Cl. 123—52)



1. A sixteen-cylinder four-cycle twin bank internal combustion engine comprising two banks of power cylinders; pistons in said cylinders; connecting rods secured to said pistons; a crank shaft connected to the connecting rods of one of said banks, receiving four power impulses per revolution therefrom; a crank shaft connected to the connecting rods of the other of said banks, receiving four power impulses per revolution therefrom; gears tying together said crank shafts at one end thereof; means driven from said end of said crank shafts, said crank shafts having a harmful mode of vibration in which the other ends of said crank shafts tend to vibrate in opposite directions, with a nodal point thereof at each crank shaft gear and zero amplitude of vibration at said means, in the normal operating range of speeds of said engine; and gears tying together said crank shafts at the other end thereof, said tying together of said crank shafts at both ends thereof changing said mode of vibration to a mode of vibration in which the mid points of said crank shafts vibrate in opposite directions, through nodal points thereof at each of said crank shaft gears at an increased frequency not more than double that of said first mentioned mode, whereby said last mentioned vibration occurs at a speed above said normal operating range of speeds of said engine.

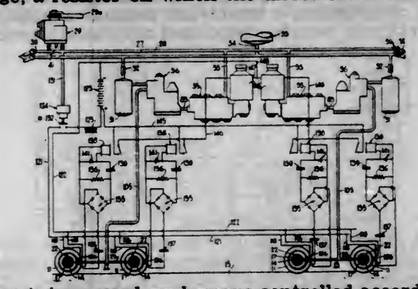
2,283,607
MUFFLER DEVICE
Albert J. Ludwig, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application December 27, 1940, Serial No. 371,890
1 Claim. (Cl. 181—33)



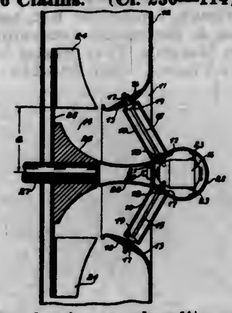
A device for silencing the exhaust of fluid under pressure from a vertically and downwardly extending vibratory pipe or the like comprising in combination, a downwardly extending coil spring having one end secured to said pipe with the interior of said spring open to the interior of said pipe, closure means closing the opposite and lowermost end of said spring and adapted to be operated by fluid under pressure exhausted from said pipe to the interior of said spring to extend said spring for venting fluid under pressure from the interior of said spring through space thus created between coils of said spring, and means attached to the said closure means and extending vertically downward from said spring and cooperative with said pipe upon vibration of said pipe to create relative movement between the opposite ends of said spring and thereby between coils of said spring to maintain such coils free for movement relative to each other, said spring being formed with an initial tension sufficient to urge the coils thereof into contact with each other against opposition of said last means when the pipe, spring and last named means are in vertical alignment and in a static condition.

2,283,608
BRAKE CONTROL MEANS
Joseph C. McCune, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application February 28, 1941, Serial No. 381,083
19 Claims. (Cl. 303—21)

1. Control apparatus for the brakes associated with the wheels of a vehicle of the type in which the brakes are applied and released under the control of the operator, comprising an induction-generator for supplying an alternating-current voltage having an effective value substantially proportional to the rotational speed of a wheel of the vehicle, a rectifier for converting the alternating-current voltage to a direct-current voltage, a resistor on which the direct-current voltage is impressed, and means controlled according to the rate of change of voltage impressed on said resistor for controlling the degree of application of the brakes associated with said wheel.



2,283,609
FAN
John E. McDonald, Boston, Mass., assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass.
Application November 8, 1939, Serial No. 303,412
6 Claims. (Cl. 230—114)

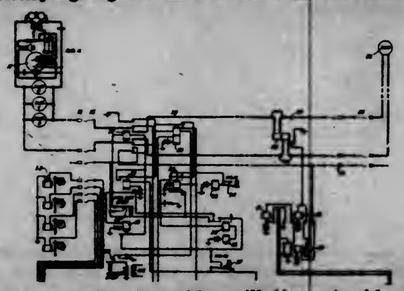


1. In a fan having a plurality of rotary, air moving blades and a stationary, air guiding casing forming an axial, air inlet to said blades, a plurality of rotors having shaft supporting means attached to said casing, said rotors being so disposed with respect to the air stream flowing through said inlet that upon rotation thereof, they produce a spin velocity in the air in the direction of rotation of said blades, means independent of the air moved by said fan for rotating said rotors in the direction of the air movement produced in said inlet by the rotation of said blades, and means for adjusting said last mentioned means for varying the speed of rotation of said rotors for varying the volume of air moved by said fan.

2,283,610
TELEPHONE SYSTEM
Milton E. Mohr, Jamaica, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 2, 1940, Serial No. 316,903
11 Claims. (Cl. 179—8.5)

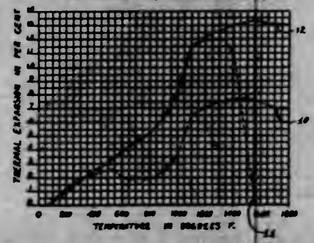
6. In a telephone system, a line having a plurality of subscribers' stations, a vibratory reed at each station having a different natural frequency, a dial at each station adapted to vibrate the associated reed, means responsive to the vi-

brations of the reed for causing in the line oscillations of a frequency corresponding to the natural frequency of said vibrating reed, a selector circuit responsive to the dialing of a digit for establishing connections beyond, a station identifying register associated with said selector



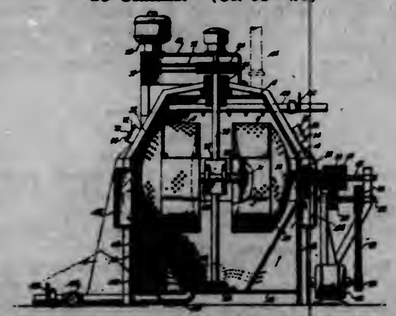
and responsive to said oscillations to identify calling lines, means controlled by said selector after a digit has been dialed for connecting the register to the line so that the register will respond to said oscillations to identify the calling line, and service meters controlled by said register.

2,283,611
COMPOSITION
Robert Neiman, Louisville, Ky., assignor to Edmund A. Steinbock, Louisville, Ky.
Application March 4, 1941, Serial No. 381,709
10 Claims. (Cl. 22—188)



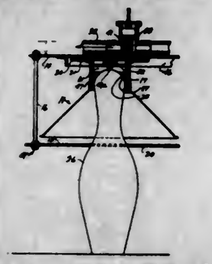
1. A composition comprising 20 to 50% calcium sulfate binder, 50 to 80% filler, and .05 to 10% of cadmia.

2,283,612
APPARATUS FOR WASHING, EXTRACTING, AND DRYING
Emanuel J. Perry, New Bedford, Mass.
Application October 2, 1939, Serial No. 297,614
15 Claims. (Cl. 68—20)



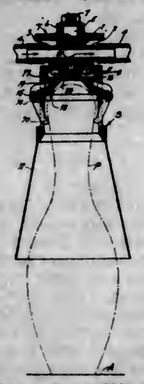
10. A washing and extracting machine comprising a cleaning fluid holding casing, a rotatable hollow support disposed substantially centrally of said casing, a perforated container, means securing said container to one side of said central support for rotary movement on an axis extending through the container and for rotary movement with said central support around the offset axis of said central support, means including drive means extending through said hollow support for rotating said container on said axis extending through the container for tumbling contents of the container in said cleaning fluid, and means for rotating said container at a high speed around the axis of said central support for extracting cleaning fluid from the contents of said container.

2,283,613
BOWLING PIN LIFTING MECHANISM
Gottfried J. Schmidt, Pearl River, N. Y., assignor to Bowling Patents Management Corporation, a corporation of New York
Application January 31, 1940, Serial No. 316,468
15 Claims. (Cl. 294—65)



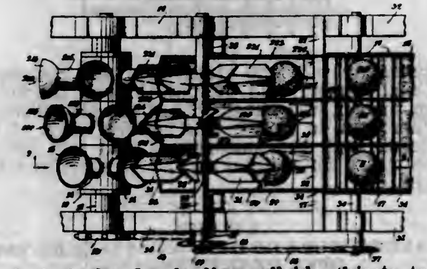
1. In a bowling pin handling device for a bowling pin setting machine, a casing, a suction cup comprising a flanged piston movably mounted in said casing, said flange being arranged to encircle and embrace the head of a bowling pin, an abutment limiting the movement of said cup towards said pin head, and resilient means pressing said flange against said abutment.

2,283,614
PIN SETTER UNIT
Gottfried J. Schmidt, Pearl River, N. Y., assignor to Bowling Patents Management Corporation, a corporation of New York
Application June 21, 1940, Serial No. 341,658
16 Claims. (Cl. 294—88)



5. In a bowling pin setting machine, a pin setter device comprising a housing having a cylindrical bore, a piston mounted for movement in said bore, jaw actuating means on said piston, a plurality of jaws spaced around said housing each of which jaws is provided with extensions engaging said means on said piston, and means for operating said piston in said bore to move said jaws into pin engaging position.

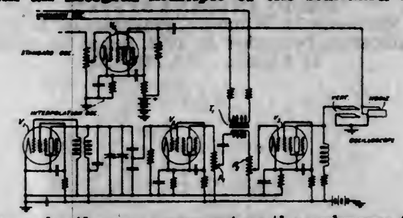
2,283,615
FEEDING APPARATUS
Bronson C. Skinner, Dunedin, and James J. Rucker Bristow, Safety Harbor, Fla.; said Bristow assignor to said Skinner
Application July 26, 1940, Serial No. 346,512
7 Claims. (Cl. 198—25)



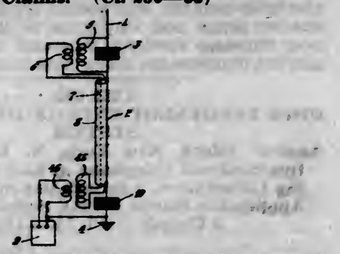
1. A device for feeding rollable objects to a row of receiving units spaced at substantially equal radial angles and adapted to be moved past a receiving point at a certain rate of travel, comprising in combination, a way having an elevated entrance end and a feeding end terminating at the receiving point adapted to feed said row of receiving units; a blade-wheel associated with said way and having radiating blades disposed substantially at equal radial angles from each other and equal in number to the receiving units in the row being fed thereby in cooperation with the associated way; means to supply rollable objects in timed relation to the elevated entrance end of said way; said way comprising a feed section and an entrance section with the former curved along the path of the outer ends of said blades whereby each blade in operation is adapted to engage and roll an object therealong at a rate of travel approximately equal to the rate of travel of the receiving units past the receiving point and to tip the object from the delivery end of the way on to a receiving unit as it passes the receiving point, said entrance section extending from the entrance end to the feed section of said way and down which the objects are adapted to roll without aid, said feed section merging with said entrance section at a point along the path of the ends of said blades so related to the speed of said blades and the timed feeding of the elevated entrance end of said way that an object will roll down the entrance section to arrive at that merging point intermediate of successive blades.

2,283,616
OSCILLOGRAPHIC METHOD OF FREQUENCY SETTING OR MEASUREMENT
Thaddeus Slonczewski, Glen Head, N. Y., and Frank R. Stansel, Millburn, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 3, 1940, Serial No. 350,982
6 Claims. (Cl. 172—245)

1. The method of measuring an unknown frequency, using a standard frequency source and a source of calibrated interpolating frequency, which comprises the steps of arithmetically combining the unknown frequency wave with the wave from the interpolating source and adjusting the interpolating frequency until it differs from an integral multiple of the standard frequency by the same amount as the unknown frequency differs from another integral multiple of said frequency, whereby the unknown frequency may be calculated from said difference and the known integral multiple frequencies.

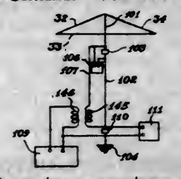


2,283,617
ANTENNA
Raymond M. Wilmotte, Washington, D. C.
Application May 8, 1941, Serial No. 392,439
2 Claims. (Cl. 250—33)



1. In an antenna system, the combination of, a vertical antenna including an upper section said upper section being aperiodic and a lower section, means for insulating said two sections from each other, means for insulating said lower section from ground, a source of energy for exciting said antenna, means for applying a portion of said energy between said two sections, means for applying a second portion of said energy between said lower section and ground, and means for varying the relative phases and magnitudes of said two portions of energy whereby to control the current distribution along the length of said lower radiator.

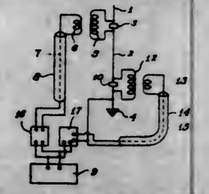
2,283,618
RADIO ANTENNA SYSTEM
Raymond M. Wilmotte, Washington, D. C.
Application December 18, 1941, Serial No. 423,539
10 Claims. (Cl. 250—33)



1. In a radio antenna system, an antenna element having two ends, an aperiodic electrical loading means adjacent to one end of said antenna element, means close to the antenna element for exciting said antenna at the said one end, and variable impedance means connected

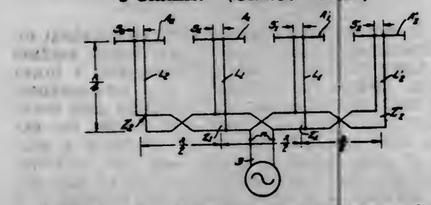
between the other end of said antenna element and its electrical ground for controlling the current distribution in said antenna element.

2,283,619
RADIO ANTENNA SYSTEM
Raymond M. Wilmotte, Washington, D. C.
Application December 18, 1941, Serial No. 423,540
12 Claims. (Cl. 250—33)



1. In a radio antenna system, an antenna element having first and second ends, an aperiodic electrical loading element juxtaposed at one end of said antenna element, a translating means, first and second means for transferring electrical energy between said first and second ends, respectively, of said antenna element and said translating means, means coupling said first means between said antenna element and said aperiodic element, and means for controlling the relative phase and amplitude of the voltages on said antenna element, whereby to control the current distribution along said antenna element.

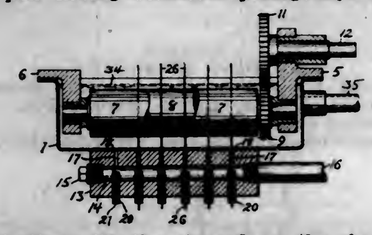
2,283,620
HIGH FREQUENCY ENERGY DISTRIBUTION SYSTEM
Andrew Alford, New York, N. Y., assignor to International Telephone & Radio Manufacturing Corporation, a corporation of Delaware.
Application March 1, 1941, Serial No. 381,302
3 Claims. (Cl. 250—11.51)



1. Means for distributing energy in a desired ratio among a plurality of loads comprising a source of high frequency energy, a high frequency transmission line connected to said source, a plurality of branch transmission lines coupled to said high frequency transmission line at points spaced apart a distance equal to substantially an odd integral multiple of a half wavelength at the operating frequency, said branch conductors being substantially an odd integral multiple of a quarter of said wavelength long, and a plurality of high frequency loads comprising radiant acting conductors connected to said respective branch transmission lines, the spacing betwen the conductors of said branch lines at the point of connection to said loads loads being adjusted to secure the desired energy division among said loads.

2,283,621
ENAMEL APPLICATOR
Herman Arber, Fort Wayne, Ind., assignor to Essex Wire Corporation, Fort Wayne, Ind., a corporation of Michigan
Application April 15, 1940, Serial No. 329,653
7 Claims. (Cl. 91—46)

1. An enamel applicator for wire constituted of a pan containing a bath of enamel, parallel rollers spaced apart from each other submerged in said bath provided with mechanism for rotating same over toward each other to cause the enamel to pile and flow downwardly between said rollers, a chambered member on the bottom of the pan having restricted passageways com-

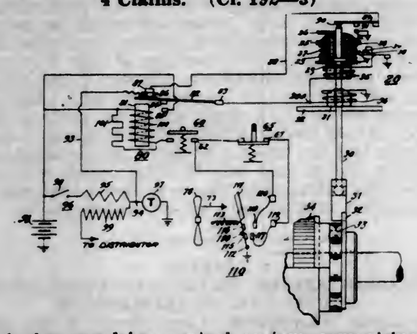


municating with the atmosphere, the chamber in said member, and the pan through the bottom thereof, and alined with the space between said rollers, to permit free upward travel of a wire through the passageways and said bath, and means for maintaining air pressure in said chamber.

2,283,622
MANUFACTURE OF IRON AND STEEL BY THE OPEN HEARTH PROCESS
James J. Bowden, Cleveland Heights, and John S. Suda, Parma, Ohio
No Drawing. Application August 2, 1940, Serial No. 350,138
12 Claims. (Cl. 75—54)

2. A fluxing agent suitable for use in the production of open-hearth iron and steel, the same consisting essentially of a bonded mixture of particles of limestone with a compound containing or capable of yielding aluminum oxide wherein the weight of the aluminum oxide constituent of said compound is approximately 2% to 12½% of the weight of the limestone.

2,283,623
OVERDRIVE CONTROL SYSTEM
Edward M. Claytor, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 20, 1940, Serial No. 366,441
4 Claims. (Cl. 192—3)



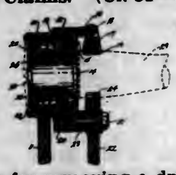
1. An overdrive control system comprising a current source, an overdrive pawl, a solenoid for controlling the overdrive pawl, ignition apparatus, a driver operated control switch, and a single relay controlled by said driver operated switch and operable for controlling the overdrive solenoid and for operating contacts which control the status of the ignition apparatus, said relay having time lag provisions for delaying the return of the ignition controlling contacts to normal status for a predetermined time following operation of the driver operated control switch.

2,283,624
COVER
Daniel K. Copell, New York, N. Y.
Application December 29, 1939, Serial No. 311,469
3 Claims. (Cl. 206—41)



1. A cover for a pipe and including a receptacle presenting side walls to be disposed adjacent the side faces of a pipe bowl, said side walls presenting a pair of separate openings in their meeting edges, one of said openings being relatively restricted and to permit passage merely of the stem of a pipe, and the second of said openings being relatively large and permitting of the passage therethrough of the pipe stem and bowl, said stem being extendable through and beyond said relatively restricted opening to be freely exposed to the atmosphere beyond said receptacle, fastening means to retain against separation the edges of said second opening and including an element shiftable in the direction of the end of the pipe stem to render said fastening means operative and whereby to rotate said cover into snug contact with the bowl of said pipe and a neck portion forming a part of said cover and defining the first named opening therein to provide a sheath of constricted diameter and limited length to encircle those portions of the pipe stem adjacent the bowl thereof.

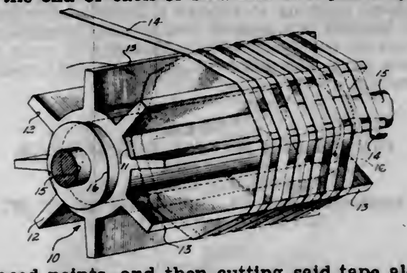
2,283,625
DRILL BIT WRENCH
George H. Coplen, Cripple Creek, Colo.
Application April 5, 1940, Serial No. 327,977
5 Claims. (Cl. 81—55)



1. A wrench for removing a drill bit head from a drill shank comprising: a socket member conformed on its interior to receive a drill bit head; a rotatable sleeve about said socket member; a handle fixed to and projecting from said socket member; a second handle pivoted on said sleeve; an inwardly projecting extremity on said second handle; teeth on said latter extremity for engaging a drill bit shank; and means for preventing said head from passing entirely through said socket member.

2,283,626
HOLDER FOR TAPE SECTIONS
Aaron Freydberg, Mount Vernon, N. Y., assignor to Freydberg Bros.-Strauss, Inc., New York, N. Y., a corporation of New York
Application August 28, 1940, Serial No. 354,589
8 Claims. (Cl. 242—56)

6. That method of making available a series of pressure adhesive strips of predetermined lengths which comprises applying pressure adhesive tape to a series of spaced ribs so that said tape adheres to the end of each of said ribs at a plurality of

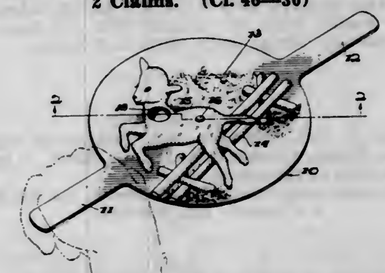


spaced points, and then cutting said tape along lines parallel to said ribs whereby to form said tape into a series of short strips each secured to one of said ribs, and a plurality of strips secured to each rib.

2,283,627
HIGH MOLECULAR WEIGHT HALOGEN- AND SULPHUR-CONTAINING DERIVATIVES OF HYDROCARBON POLYMERS
Anthony H. Gleason, Westfield, N. J., assignor, by mesne assignments, to Jasco, Incorporated, Baton Rouge, La., a corporation of Louisiana
No Drawing. Application December 11, 1940, Serial No. 369,620
10 Claims. (Cl. 260—94)

1. Process of preparing high molecular weight, halogen and sulphur derivatives of linear, plastic, hydrocarbon polymers containing a long chain of saturated carbon atoms formed essentially from an iso-mono-olefin, which comprises reacting said hydrocarbon polymers with a small amount of sulphur chloride homogeneously dissolved in a larger proportion of an inert solvent and simultaneously halogenating said polymer by reaction with gaseous chlorine.

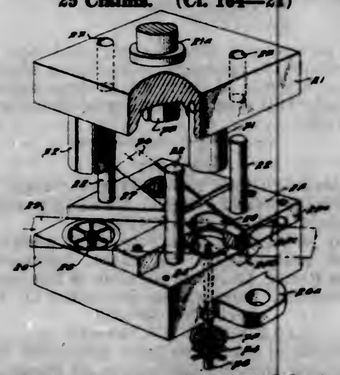
2,283,628
SLEEP INDUCER
Benjamin K. Greenwood, Pueblo, Colo., assignor to Benjamin F. Koperlik
Application April 22, 1941, Serial No. 389,821
2 Claims. (Cl. 46—36)



1. A miniature device for simulating the sequence of sheep jumping over a fence and coordinating a synchronized repetitious muscular effort therewith including a single flat disk-shaped base of a size to be received within the pocket of a nightgown and provided at diametric points with integral radial tabs forming handles whereby either one handle or the other may be grasped by a right-handed or left-handed person for holding the device in the hand, the base being provided thereon with the representation

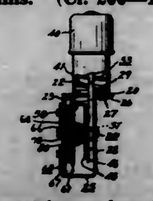
of a fence, and a member revoluble upon the base and embodying the simulation of a sheep pivoted near the rump thereof to the base centrally thereof and provided near the base of the neck with an opening to receive a finger of the hand not holding the base by one of said handles for revolving the sheep with said finger to cross the fence as a succession of crossings are counted mentally.

2,283,629
DIE SET FOR MAKING METAL-EDGE FILTERS
Paul Heftler, Chicago, Ill.
Application May 27, 1940, Serial No. 337,407
25 Claims. (Cl. 164—21)



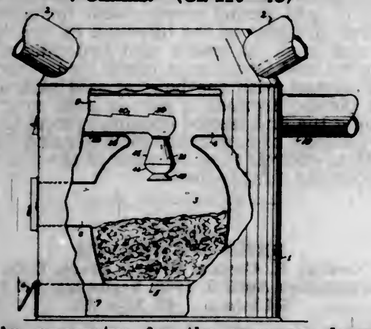
7. A device for assembling metal-edge filter stacks formed of identical cloverleaf washers having alternate lobes and gaps, the device including means for presenting successive washers of that type at a station, a receiving member near the station, the receiving member having such a shape that the washers can fit it in at least two angularly different positions, the angle between the positions being equal to or an odd multiple of 180° divided by the number of lobes on each washer, means for moving the washers one after another from the station to the receiving member, and means for causing relative rotation between the receiving member and the washer through the angle defined above each time that a washer is moved to the receiving member so that the washers form a stack with the lobes of each washer lying in registry with the gaps of the washers immediately above and below.

2,283,630
DIMMER SWITCH
Robert H. Hill, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 18, 1939, Serial No. 305,097
6 Claims. (Cl. 200—11)



1. A switch comprising a housing having an aperture; a shaft anchored at one end to the housing and having its other end free; a plunger reciprocable through the aperture and guided in a straight line movement by the stud, said plunger carrying a projection having an inclined surface on its free end; a rotatable and axially movable disc supported upon the shaft and having a plurality of equally spaced struck-out portions bent out of the plane of the disc to provide a series of abutments arranged in a concentric circle and successively engageable by the projection whereby said disc is rotated in one direction only by the projection upon movement of the plunger in one direction, said struck-out portions being bent at an angle with reference to the incline on the projection so as to move the disc axially away from the plunger upon retraction of the plunger; a spring surrounding the shaft to maintain the disc in operative relation to the projection; a set of relatively fixed contacts and a movable contact rotatively supported by the shaft, said contacts having cooperating provisions whereby the movable contact can rotate only in one direction; and means for transmitting movement from the disc to the movable contact in said one direction of rotation.

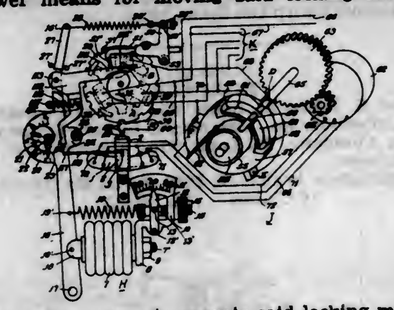
2,283,631
APPARATUS FOR BURNING FUEL
Fred D. Hoffman, Cleveland, Ohio, assignor of one-half to James T. Shipman, Twinsburg, Ohio
Application July 21, 1938, Serial No. 220,525
7 Claims. (Cl. 110—75)



1. An apparatus for the purposes described comprising an elongated duct having an upper conduit portion and a lower conduit portion, said portions being uncommunicated with each other between their ends, said lower conduit portion having an inlet at one end and a discharge opening at the other end, a hollow preheating bell at the discharge end of the lower conduit portion and arranged to receive air admitted through said lower conduit portion, the upper conduit portion having an inlet end in communication with the bell adjacent the discharge end of the lower conduit portion for receiving part of the air discharged from the lower conduit portion, said upper conduit portion having a discharge opening spaced from the discharge opening of the inlet conduit portion, and said bell having a discharge opening spaced from and below said conduit.

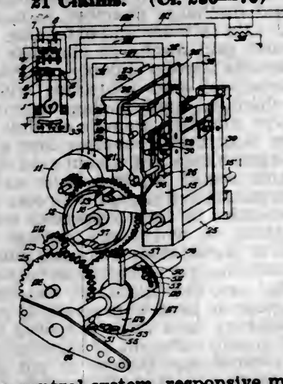
2,283,632
AUTOMATIC STEP MOTOR SWITCH LOCKED HEAT REGULATOR
Ludwig Holland-Letz, Crown Point, Ind.
Application March 21, 1940, Serial No. 325,157
20 Claims. (Cl. 236—76)

1. The combination with a heat control system, power means, heat regulating means adapted to be moved back and forth by said power means between predetermined limits constituting a predetermined number of a series of equally stepped positions, thermal responsive means, switch means, said switch means connected to and moved by said thermally responsive means for operating said power means in either direction, locking means, means operated by said power means for moving said locking means,



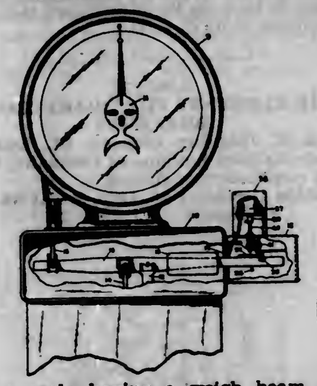
said power means to operate said locking means for locking said thermal responsive means against movement for insuring the operation of said power means and said regulating means through one of said series of equally divided stepped positions, and switch opening means, said switch opening means operated by means operated by said power means for determining said equal steps.

2,283,633
AUTOMATIC UNIFORM STEP TEMPERATURE REGULATOR
Ludwig Holland-Letz, Crown Point, Ind.
Application March 21, 1940, Serial No. 325,158
21 Claims. (Cl. 236—76)



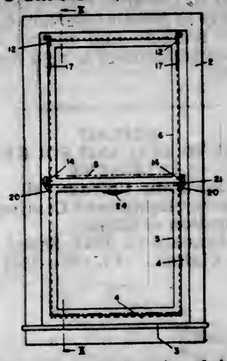
1. In a control system, responsive means, power means, and regulating means adapted to be moved back and forth by said power means between predetermined limits constituting a predetermined number of a series of equally divided stepped positions, switching means, an electric circuit, said responsive means in said electric circuit to start said power means to operate a fraction of one of said equally divided stepped positions for moving said switching means, said switching means movement making circuit to operate said power means independent of said responsive means circuit to complete and insure the operation of the said started step of a series of equally divided step positions of said predetermined limits and simultaneously operate said regulating means.

2,283,634
BEAM LOCKING DEVICE
Dale P. Jacobus, St. Johnsbury, Vt., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application December 2, 1940, Serial No. 368,135
2 Claims. (Cl. 265—49)



1. In a scale having a weigh beam, means forming an abutment for the beam at one side thereof, a yieldable striker plate on said beam, a roller, means pivotally mounting said roller for movement into and out of engagement with said striker plate, a spring adapted to urge said roller into engagement with said striker plate, and electromagnetic means for withdrawing said roller from the striker plate to free the weigh beam.

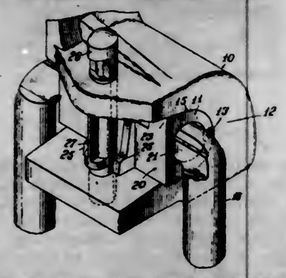
2,283,635
QUICK-CONVERTIBLE SCREEN AND STORM WINDOW
Barry C. James, Ashtabula, Ohio
Application February 6, 1940, Serial No. 317,569
5 Claims. (Cl. 20—55)



1. In window construction involving a support-frame for positioning in a window frame outside the regular window sashes, auxiliary upper and lower sash elements to fit in said support-frame, guides at the upper part of said support-frame to direct the top of the upper sash element into the support-frame, shoulders along the sides of said support-frame to prevent lateral displacement of said sash element, curved spring guide means on said upper auxiliary sash element to prevent inward displacement thereof, lateral projections on the lower part of said upper auxiliary sash element, recesses in said support-frame to receive said projections, shoulder means at the

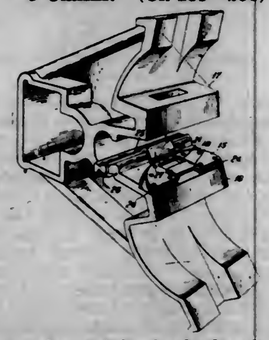
top of the lower sash element to engage the upper sash element, and dual retaining means centrally pivoted to the support-frame near the joint of the upper and lower auxiliary sash elements and having an upper ear to extend over the lateral projection on the upper auxiliary sash element when turned in its direction and a lower ear to lock the lower auxiliary sash element when turned in its direction.

2,283,636
WEAR ELEMENTS FOR BRAKE HANGER BRACKETS
Malcolm S. Johnson, Chicago, Ill., assignor to Illinois Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application December 26, 1940, Serial No. 371,662
10 Claims. (Cl. 188—209)



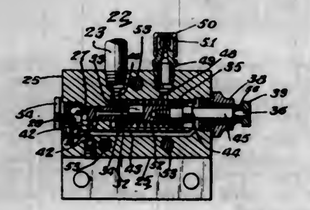
1. Wear elements for brake hanger brackets comprising a pair of elongated metal members adapted to be inserted in the socket of a brake hanger bracket in parallel relation with each other, the adjacent faces of the members being arcuate and combinedly forming a substantially cylindrical hanger receiving channel, one of said members being adapted to fit against the rear wall of the bracket socket and be immovably secured thereto, while the other member is pivotally secured to the first mentioned member to swing vertically to permit insertion or withdrawal of the brake hanger; and means whereby the second mentioned member is held against swinging movement.

2,283,637
BRAKE HEAD LUG AND SOCKET WEAR ELEMENT
Malcolm S. Johnson, Chicago, Ill., assignor to Illinois Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application January 13, 1941, Serial No. 374,272
5 Claims. (Cl. 188—236)



1. A wear element for brake heads comprising a single piece member composed of a laterally disposed plate section coextensive with and adapted to extend across the shoe supporting lug of a brake head, a second rearwardly off-set plate section adapted to extend into the hanger socket of the brake head and connected with the first mentioned section intermediate the ends, and a locking section adapted to effect holding engagement with the brake head.

2,283,638
INJECTOR
Victor G. Klein, St. Louis, and Lutwin C. Rotter, Maplewood, Mo., assignors to Lincoln Engineering Company, St. Louis, Mo., a corporation of Missouri
Application August 12, 1940, Serial No. 352,294
10 Claims. (Cl. 184—7)

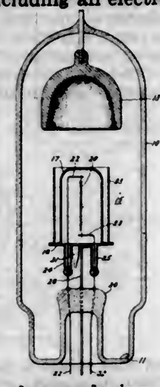


1. An injector comprising a body having an inlet for receiving lubricant under pressure and a cylinder, a piston disposed within said cylinder and dividing said cylinder into an intake chamber and a discharge chamber, an outlet for delivering lubricant under pressure communicating with said discharge chamber, a passageway coaxial with said cylinder and extending between said inlet and said discharge chamber, a valve having a passage therein slidably mounted within said passageway and projecting within said discharge chamber, said passage opening into said discharge chamber, a single conduit extending between said intake chamber and said passageway, a spring disposed within said discharge chamber and seated against said valve and against said piston and normally urging them in opposite directions to their respective outermost seated positions, in which the passage in said valve comes in registration with said single conduit and establishes communication between said single conduit and said discharge chamber, said valve presenting an area to pressure of grease at said inlet whereby said valve is moved to move the passage in said valve out of registration with said single conduit and thereby to cut off communication between said single conduit and said discharge chamber and to establish communication between said inlet and said single conduit.

2,283,639
ELECTRIC DISCHARGE DEVICE
August J. Kling, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application September 26, 1941, Serial No. 412,377
6 Claims. (Cl. 250—27.5)

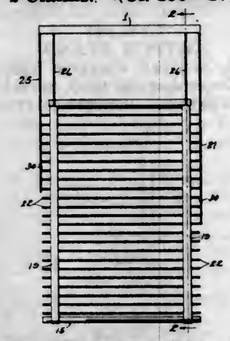
1. In combination, a discharge vessel containing an ionizable medium at a substantial pressure, an anode within the vessel and a thermionic cathode cooperatively positioned with respect to the anode, said cathode including as a component thereof a member which forms a wall

part of a highly evacuated discharge enclosure and further including an electron emitter within



said enclosure for producing a heat-generating discharge to said wall part.

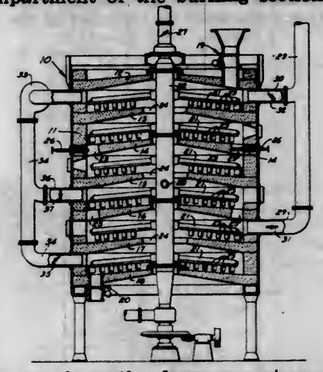
2,283,640
VENETIAN BLIND
Doin Kwon, Honolulu, Territory of Hawaii
Application March 17, 1941, Serial No. 383,853
2 Claims. (Cl. 156—17)



1. A Venetian blind comprising a head bar to be fixed to a window frame, a slat assembly including upper and lower cross bars, tapes including front and rear portions fastened to the upper and lower bars, slats between the tape portions, resting means for the slats and connected to and between the tape portions, an elevating cord for the slats and connected to the lower bar, said upper bar being slotted transversely adjacent its ends for the passage of the elevating cord therethrough, front and rear webs bridging the slots, a pair of tilting cords for the assembly, one of the tilting cords being connected to the front webs and the other to the rear webs, said tilting cords being disposed about the outer sides of their webs and cooperating with each other for suspending the assembly at various heights with respect to the head bar, guide pulleys and catch means for the cords, and said pulleys and catch means being mounted in the head bar.

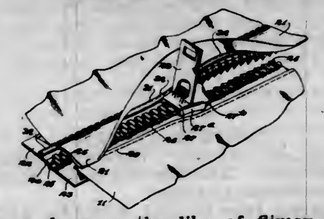
2,283,641
INCINERATION
Warren S. Martin, Bayside, and George R. Lewers, Brooklyn, N. Y., assignors to Underpinning & Foundation Co., Inc., New York, N. Y., a corporation of New York
Application May 27, 1939, Serial No. 276,068
5 Claims. (Cl. 110—12)

1. A multiple hearth furnace comprising a plurality of hearths dividing the interior of the furnace into a plurality of compartments, alternate hearths of said plurality having central outlets and peripheral outlets respectively to enable material to be fed downwardly from hearth to hearth; means for utilizing an intermediate hearth to divide the furnace into an upper multiple-hearth drying section and a lower multiple-hearth burning section, comprising means for supplying air to the interior of an intermediate compartment of the burning section, means



for drawing from the furnace a stream of hot gases from a lower compartment of said burning section, means for drawing a stream of gases from the upper part of the burning section through the dividing hearth into the drying section and out of the upper part of said drying section together with gases and vapors taken up from the material in said drying section, and means for varying the effect of the two drawing means to maintain said intermediate hearth as the dividing hearth.

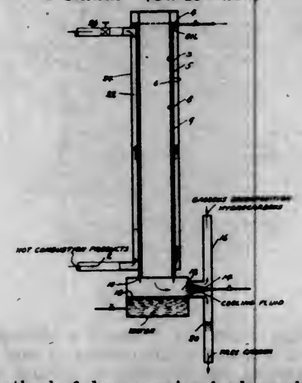
2,283,642
SLIDE FASTENED CLOSURE CONSTRUCTION FOR SHEER GARMENTS
Marjorie E. Murray, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania
Application June 20, 1940, Serial No. 341,547
5 Claims. (Cl. 2—74)



1. In a dress or the like of flimsy material having a side placket opening, a slide fastener for closing the opening including a pair of stringer tapes attached directly to the garment material on opposite sides of the opening, rows of interlocking fastener members on adjacent edges of the tapes, and a slider movable on the fastener members for opening and closing the fastener, a covering flap formed wholly of the same flimsy material as the dress attached to the garment material on one side of the opening and overlying the fastener members, and a cord-like member extending along the rows of fastener members substantially the entire length of the slide fastener and attached only to the stringer tape on that side of the opening to which the

flap is attached and located between the rows of fastener members and the line of attachment of such stringer tape to the garment material, to prevent the flimsy flap material from catching in the slider as the slider is moved along the fastener members.

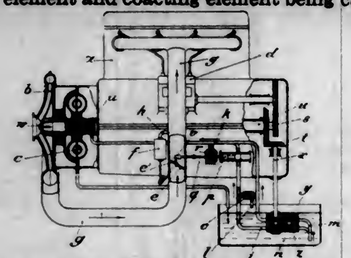
2,283,643
MAKING GAS FROM OIL
Theodore Nagel, Brooklyn, N. Y.
Application September 10, 1938, Serial No. 229,309
1 Claim. (Cl. 48—211)



The method of decomposing hydrocarbon oil to olefinic gaseous decomposition hydrocarbons, which method comprises continuously charging hydrocarbon oil in the liquid phase into a vertically extending annular space at such a rate that the oil initially flows by gravity in the form of a film along and in contact with one surface of a heat conducting wall constituting one wall of the said annular space, simultaneously continuously flowing hot combustion products along the opposite surface of said wall from the bottom to the top thereof in such volume and at such temperature that the descending oil film will be vaporized, and the vapor temperature raised to within the temperature range from 1300° F. to 1600° F., without the formation of reaction products, to flash decompose the vapor to olefinic gaseous decomposition hydrocarbons free from reaction products, and immediately upon attainment of the said temperature shock cooling to below 900° F. to exclude polymerizing reactions.

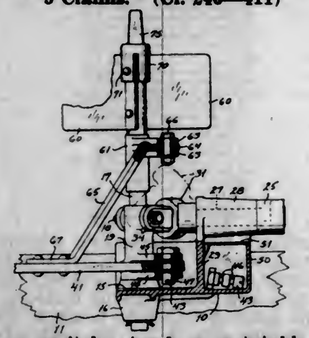
2,283,644
CONTROL SYSTEM
Fritz Nallinger, Stuttgart, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany
Application June 22, 1938, Serial No. 215,305
In Germany June 26, 1937
9 Claims. (Cl. 123—119)

1. In a system of the character described, a blower, a motor, a fluid actuated coupling interconnecting said motor and blower, conveying means for delivering a fluid to said coupling, air conveying means connected to the output side of said blower, air control means for regulating the rate of air passing through said air conveying means, said air control means being disposed in said air conveying means at a point between said blower and said motor, pressure responsive means connected to said air conveying means and said air control means, control means for said fluid associated with the said fluid conveying means, connecting means interconnecting said air and fluid control means, said air control means comprising an actuating element and said connecting means comprising a coacting element, said actuating element and coacting element being operatively connected and cooperating to impart movement to said fluid control means, said actuating element and coacting element being capable



of a predetermined idle relative movement with respect to each other, whereby, upon change of pressure in said air conveying means, said pressure responsive means actuates first said air control means and said actuating element, whereupon the latter moves idly for a predetermined distance before affecting the said coacting element and said fluid control means.

2,283,645
SWITCH STAND
Walter S. Newhall, Chagrin Falls, Ohio
Application November 10, 1939, Serial No. 303,843
5 Claims. (Cl. 246—411)

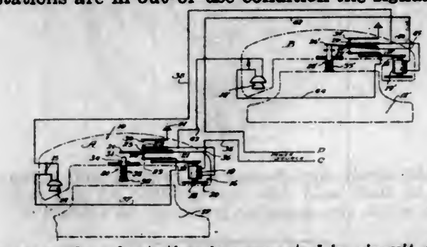


1. In a switch stand, a rotatable vertical spindle, a switch bar, an arm carried by said spindle, a severable connection between the switch bar and said arm, manually operable means to rotate said spindle, a signal mounted on said spindle and rotatable independently thereof when said connection is severed, and a connection independent of said spindle between said signal and switch bar to cause the signal to be positively moved consequent upon the movement of said bar.

2,283,646
TELEPHONE APPARATUS AND CIRCUIT THEREFOR
Harold I. Nicholas, Chicago, Ill., assignor of one-half to Edna Levi and one-half to Anna T. Gade, both of Chicago, Ill.
Application July 21, 1939, Serial No. 285,641
3 Claims. (Cl. 179—1)

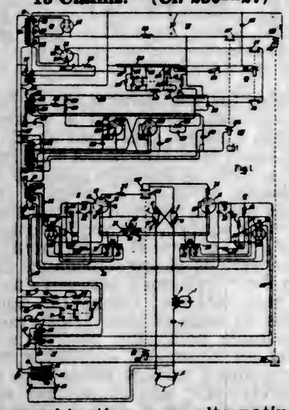
1. An intercommunicating system comprising a plurality of stations, each of said stations including a transmitter, a combined receiver and signaling means and switching means all encased

in a housing which is removably supported on a support, said combined receiver and signaling means comprising an electro-magnet formed of a single core and coil, a receiver diaphragm disposed opposite one pole of said electro-magnet and a vibrable armature disposed opposite the other pole of said electro-magnet, means for actuating said switching means whereby when said stations are in out-of-use condition the signaling



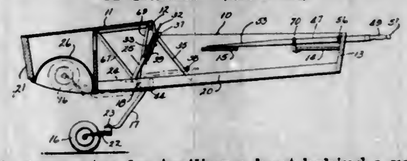
means of each station is connected in circuit and adapted to be energized to summon a party to answer a call, the energizing of the signaling means of a called station being effected when the transmitter and receiver of a calling station are removed from their support, the said switching means being thereafter actuated to disconnect the signaling circuit and to connect in circuit the transmitters and receivers of stations between which intercommunicating is desired.

2,283,647
ELECTRIC VALVE CONTROL SYSTEM
Harry L. Palmer, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 5, 1941, Serial No. 387,051
13 Claims. (Cl. 250—27)



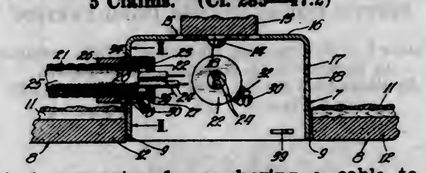
13. In combination, an alternating current supply circuit, a load circuit, electric translating apparatus connected between said supply circuit and said load circuit and comprising electric valve means having a control means, means for impressing on said control means a hold-off potential tending to maintain said electric valve means non-conducting, means for impressing on said control means a control voltage which tends to render said electric valve means conducting but of a value which in itself is not sufficient to overcome the effect of said hold-off potential, and means energized from said supply circuit for impressing on said control member a unidirectional voltage timed in phase with respect to the voltage of said supply circuit and which cooperating with said control voltage is sufficient to overcome the effect of said hold-off voltage and which comprises a capacitance and a rectifier connected between said supply circuit and said capacitance for effecting charge thereof.

2,283,648
BOAT TRAILING EQUIPMENT
Russell H. Samdahl, Black River Falls, Wis.
Application June 18, 1941, Serial No. 398,558
11 Claims. (Cl. 9—1)



1. Apparatus for trailing a boat behind a vehicle, comprising a single trailing wheel in supporting position for the bow of the boat, a pair of oars mounted on the boat and projecting from the stern at either side thereof, and means securing the projecting ends of said oars to the rear of the vehicle.

2,283,649
CABLE CONNECTOR
Erhardt G. Samuelson, Chicago, Ill., assignor of one-half to Carl O. Holmes, Chicago, Ill.
Application January 31, 1940, Serial No. 316,604
5 Claims. (Cl. 285—47.2)

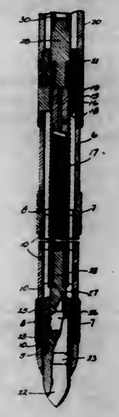


1. A connector for anchoring a cable to a fixture comprising, a one-piece tubular body, means defining opposed and spaced shoulders extending substantially circumferentially of the exterior of said body intermediate of the ends thereof, one of said shoulders being adapted to pass through a cable receiving aperture in the fixture, means for securing a cable within said body, means carried by said body between said opposed shoulders and movable circumferentially thereabout and also relative to said body in a direction transverse to the axis thereof for engaging the marginal edge defining a cable receiving aperture in a fixture, and means carried by said connector for effecting said relative movement between said body and means carried thereby.

2,283,650
EARTH SAMPLING EQUIPMENT
Charles M. Sanborn, Clintonville, Wis., assignor to Four Wheel Drive Auto Company, Clintonville, Wis., a corporation of Wisconsin
Application March 6, 1940, Serial No. 322,488
1 Claim. (Cl. 255—1.4)

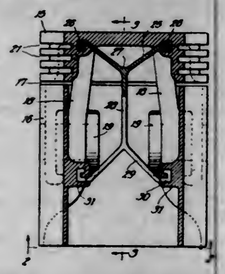
A soil sampling device comprising the combination with a case made up of sampler sections and intervening couplings, certain of said sections other than the uppermost section of said case being provided with liner sleeves and the lowermost of said sections comprising a cutting point, a driving point comprising a plug fitting within the cutting point and the successive liner sleeves, a screw connected with said plug, a nut con-

nected to said case at its upper end and in threaded connection with the screw for the retraction of said plug, complementary seating means on the nut and the plug engageable upon the com-



plete retraction of the plug, and vent means through the nut laterally offset from the screw and opening within the area of said complementary seating means to be sealed thereby when the plug is completely retracted.

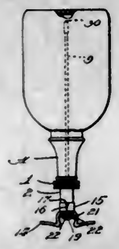
2,283,651
PISTON FOR INTERNAL COMBUSTION ENGINES
Walter L. Schoengarth, Ironwood, Mich., assignor to Benjamin G. Harmon, Chicago, Ill.
Application July 20, 1940, Serial No. 346,529
9 Claims. (Cl. 309—11)



1. In a piston having a head portion and a circumferentially expansible and contractible split skirt portion, a skirt circumference control member disposed within said piston, said member having a relatively lower thermal coefficient of expansion than said head and skirt portions, said member having a plurality of arms angularly disposed with respect to each other and anchored within the piston, at least some of which arms are anchored to said skirt portion on opposite sides of the slot therein.

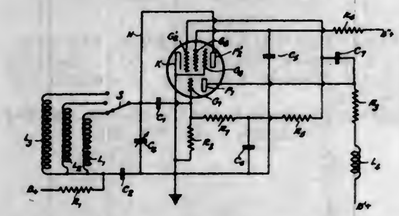
2,283,652
LIQUID DISPENSING APPARATUS
Emil Schwarzkopf, Chicago, Ill.
Application September 11, 1941, Serial No. 410,467
9 Claims. (Cl. 221—67)

1. The combination with a liquid dispensing device having a movable spout, a valve that is opened and closed by the spout, and an actuator for the spout adapted to be engaged and moved by a receptacle which is to receive liquid from the spout: of a drip catcher for the outlet end



of the spout, and means for causing said actuator to shift said drip catcher into an idle position when the actuator is moved as aforesaid.

2,283,653
OSCILLATION GENERATOR CIRCUIT
Rudolph H. Siemens, Richmond Hill, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Original application March 30, 1937, Serial No. 133,753, now Patent No. 2,192,205, dated March 5, 1940. Divided and this application January 5, 1940, Serial No. 312,479
4 Claims. (Cl. 250—36)



4. A system for the generation of high frequency oscillations comprising a vacuum tube having within a single evacuated envelope, first and second space discharge paths each having an anode and a grid; a common cathode for said space discharge paths; a connection from the anode of one path to the grid of the other path; and a feed-back connection from the other anode to the other grid; a parallel tuned circuit coupled through connections of low impedance to energy of the operating frequency between one of said grids and said cathode; means for applying a suitable bias to each of said grids; means for applying suitable polarizing potentials to said anodes; and an automatic amplitude regulator comprising a direct current connection between said two grids, said last connection including a resistor network and a condenser connecting a point on said network and said cathode.

2,283,654
BRAKE
Charles W. Sinclair, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Application July 1, 1940, Serial No. 343,476
8 Claims. (Cl. 188—152)

1. In a brake, a brake friction element, a backing plate, an actuator for said friction element comprising a housing element on said backing plate and a member movable within said housing element and operable upon said friction element,

and an anchor for said friction element extending transversely of and secured to said backing

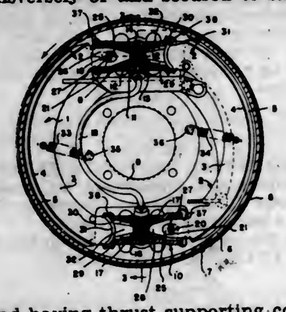
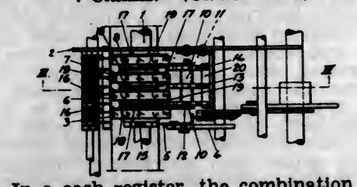


plate and having thrust supporting contact with said housing element.

2,283,655
TENS TRANSFER DEVICE
Nils Evert Johan Ståhl, Stockholm, Sweden, assignor to Kooperativa Förbundet Förening U. P. A., Stockholm, Sweden
Application October 4, 1939, Serial No. 297,783
In Sweden October 22, 1938
7 Claims. (Cl. 235—139)



1. In a cash register, the combination with a frame, a plurality of differential setting members adjustably mounted on said frame, a support element carrying a totalizer shaft, said totalizer shaft having rotatably mounted thereon a plurality of totalizer wheels to be driven by said setting members, respectively, and a number of overflow wheels, said support element being arranged for reciprocation relative to said frame at right angles to the axis of said totalizer shaft to alternately establish and break a meshing engagement between said setting members and corresponding totalizer wheels, of a mechanism for the transfer of tens to each of the overflow wheels, said mechanism comprising a tens tooth on the totalizer wheel of the highest denomination for which a differential setting member is provided, a tens tooth on each of the overflow wheels except that of the highest denomination, a toothed gear on each overflow wheel, and a tens-transfer pinion for each overflow wheel, each of said tens-transfer pinions being rotatably mounted on said frame in a position to mesh with the toothed gear of the corresponding overflow wheel and to be actuated by the tens tooth of the totalizer wheel or overflow wheel, respectively, of the next lower denomination when the differential setting members are in mesh with the corresponding totalizer wheels.

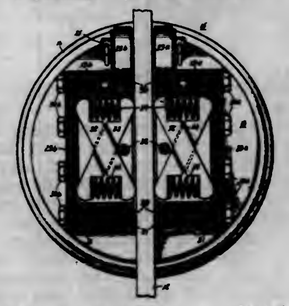
2,283,656
CIRCUIT INTERRUPTER
Albert P. Strom, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 7, 1939, Serial No. 298,439
18 Claims. (Cl. 200—120)

2. In a circuit interrupting device, an arc passage including spaced restricted portions along the passage for interrupting small current arcs, which portions are displaceable from inner walls



of said passage in response to the striking of large current arcs to automatically enlarge said arc passage by removal of said restricted portions.

2,283,657
ELECTRIC CIRCUIT BREAKER
Carl Thumim, Yeadon, Pa., assignor to General Electric Company, a corporation of New York
Application May 2, 1940, Serial No. 332,960
8 Claims. (Cl. 200—163)

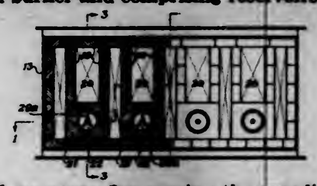


1. In a sliding contact for an electric circuit interrupter, a pair of relatively movable conducting members arranged continuously to be in conducting relationship, means interposed between said members for insuring continuous electrical connection therebetween comprising a pair of contacts arranged in a scissorslike manner having certain ends thereof biased into current-carrying engagement with one of said relatively movable members, while the other ends thereof are biased into sliding engagement with the other of said relatively movable members.

2,283,658
COMBUSTION MEANS
Ellsworth J. Westcott and John C. Hayes, Jr., Chicago, Ill., assignors to Freyn Engineering Company, Chicago, Ill., a corporation of Maine
Application January 20, 1939, Serial No. 251,946
10 Claims. (Cl. 158—1)

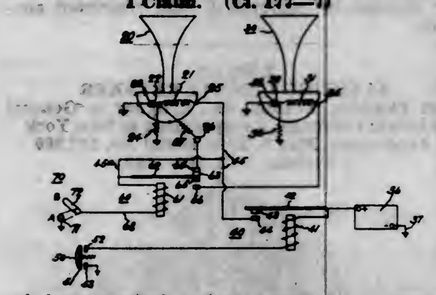
3. In a burner, in combination, means providing alternate horizontally extending passageways for blast furnace gas and air, the rear portions of said passageways being defined by metallic wall portions of relatively small cross sectional area, the front portions of said passageways being defined by refractory wall members of rela-

tively large cross sectional area, said refractory members extending to the forward extremity of said burner and comprising reservoirs for heat



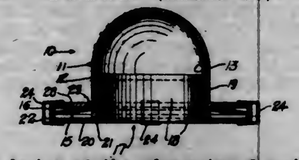
as well as means for causing the speeding up of air and gases through said passageways to be discharged from said burner.

2,283,659
HORN CONTROL SYSTEM
Joe White, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 26, 1939, Serial No. 275,898
1 Claim. (Cl. 177—7)



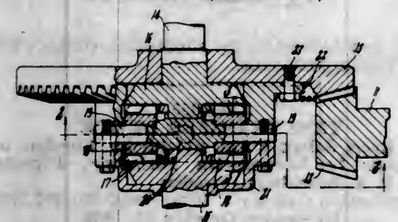
A horn control system comprising a current source, a horn having an operating magnet coil and a circuit breaker operated thereby, a switch for connecting the source with the magnet coil, a circuit for paralleling the magnet coil and including switch contacts and a resistance operable when the contacts are closed to retard the decay of flux of the magnet coil when the circuit breaker is open, and means for opening the contacts in the circuit paralleling the magnet coil.

2,283,660
HAT FORMING AND PRESERVING DEVICE
David G. Widmann, New York, N. Y.
Application June 12, 1940, Serial No. 340,258
4 Claims. (Cl. 223—24)



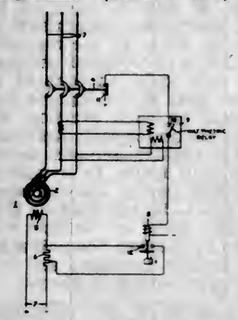
1. A device of the character described comprising an upper member having a dome and an annular flange at the base thereof, and a lower member having a tubular portion and an annular flange at the base thereof, said members being nested so that the tubular portion lies within the dome with the flange of the former underlying that of the latter, both of said flanges being outwardly directed and having means at the marginal portions thereof for movably releasably interconnecting said flanges, said members being adapted to receive a hat with the crown thereof held between the dome and the tubular portion and with the brim thereof secured between said flanges, whereby the hat is shaped by said members, and means comprising annular upstanding portions between and coaxial with said flanges, the height of said upstanding portions being adapted to be reduced for setting the brim at a required angle.

2,283,661
DIFFERENTIAL DRIVING GEARING
James L. Williamson, Springfield, Vt., assignor to The Fellows Gear Shaper Company, Springfield, Vt., a corporation of Vermont
Application November 20, 1940, Serial No. 366,396
12 Claims. (Cl. 74—315)



1. A differential gearing comprising sun gears, each having teeth on one face, mounted coaxially and rotatably with their toothed faces opposite to, and spaced apart from, one another, and a planet pinion supported to rotate about its geometrical axis and to revolve about the axis of the sun gears between, and in mesh with the teeth of, both said sun gears, the teeth of said gears and pinion being relatively unequally spaced with progressively increasing and decreasing spacing so as to cause alternate accelerations and decelerations of the sun gears when the planet pinion is held in one location and rotated at uniform speed about its own axis as a driver.

2,283,662
EXCITATION CONTROL SYSTEM
Herman Bany, Lansdowne, Pa., assignor to General Electric Company, a corporation of New York
Application June 7, 1940, Serial No. 339,813
2 Claims. (Cl. 172—274)



1. In combination, an alternating current supply circuit, a synchronous machine supplied with current from said circuit, and means responsive to the amount of power supplied from said circuit to said machine for immediately increasing the excitation of said machine a predetermined amount when the load on said machine exceeds a predetermined amount and for decreasing after a predetermined time interval the excitation of said machine a predetermined amount when the load on said machine decreases below a predetermined amount.

2,283,663
CONNECTOR
Kenly C. Bugg, Farmington, Mo.
Application September 21, 1938, Serial No. 231,051
4 Claims. (Cl. 24—81)



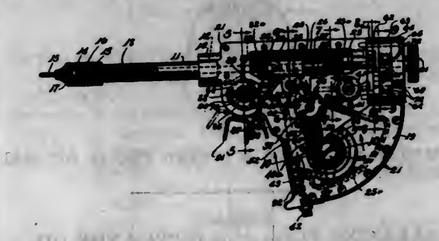
1. A connector including a body portion shaped to embrace a support, one end of said body portion extending substantially in the direction of a tangent to the support, said end including spaced hook shaped members for holding an article to be supported in engagement with the support, said hook shaped members being formed by substantially contiguous bent and rebent portions, the bent and rebent portions forming the apex of one of said hook shaped members being flattened, said spaced hook shaped members being connected by a portion permitting the hook shaped members to always engage said article when said article is in supported position.

2,283,664
GRAPHITIC STEEL
Frederick R. Bonte, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
No Drawing. Application July 26, 1940, Serial No. 347,767
7 Claims. (Cl. 148—2)

6. In a method of making graphitic steel articles, the steps which comprise casting an ingot of steel containing about 1.0 to 2.0 per cent of carbon, about 0.3 to 2.0 per cent of molybdenum, about 0.4 to 0.8 per cent of silicon, about 2.0 to 6.0 per cent of tungsten, and the remainder effectively iron, stripping said ingot and cooling it to atmospheric temperature, then reheating said ingot above about 1600° F. and hot working it, annealing the hot worked article by heating it above the critical, followed by cooling, to partially decompose carbides and produce a substantial amount of graphitic carbon finely dispersed throughout the structure, and then reheating the graphitized article to a temperature at least within the critical range to spheroidize residual cementite and thereafter cooling slowly to a temperature below the critical, and then heating the article to a temperature above the critical and quenching it to harden the article while retaining substantially all of the graphitic carbon in that form and thereby rendering the article highly resistant to scuffing, scoring and wear.

2,283,665
APPARATUS FOR INSTALLING RIVETS
Charles C. Cadden, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application July 1, 1939, Serial No. 282,537
23 Claims. (Cl. 218—19)

1. Apparatus for installing internally threaded tubular rivets, said apparatus comprising an anvil adapted to be pressed against the rivet, a threaded rod adapted to extend through and beyond said anvil to engage the threaded portion of rivets in succession, fluid-pressure responsive means for effecting relative longitudinal movement between said rod and said anvil to upset a rivet, fluid-pressure responsive means for rotating said rod, a single source of pressure fluid for both said responsive means, and a valve means for initiating and terminating the application of pressure fluid to said responsive means.

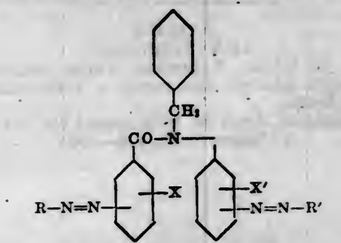


2,283,666
WARNING AGENT
William S. Calcott, Woodstown, N. J., assignor to Kinetic Chemicals, Inc., Wilmington, Del., a corporation of Delaware
No Drawing. Application July 26, 1940, Serial No. 347,643
4 Claims. (Cl. 252—68)

1. A refrigerant comprising a fluorochloro hydrocarbon and a small amount of oenanthal.

2,283,667
MANUFACTURE OF NEW AZO DYESTUFFS
Wilfrid Herbert Cliffe, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Original application July 13, 1938, Serial No. 219,097. Divided and this application April 18, 1940, Serial No. 330,427. In Great Britain July 14, 1937
6 Claims. (Cl. 260—160)

1. The compounds represented by the formula:

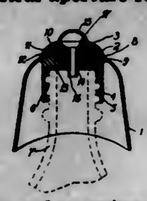


in which X and X' are one of a group consisting of hydrogen and methyl and R and R' are water soluble azo dyestuff coupling components from the class consisting of the arylpyrazolonesulfonic acid and alphanaphtholsulfonic acid series.

2,283,668
SYRINGE APPLIANCE
Michael E. Demsey, Cleveland, Ohio
Application July 19, 1940, Serial No. 346,297
4 Claims. (Cl. 128—249)

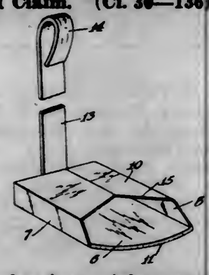
1. The combination as an integral structure, of a hollow interiorly threaded cup-shaped member purposed to serve as a bottle closure and an eye guard of comparatively larger concavo-convex form enclosing and secured to the central por-

tion of said member, said structure being provided with a central aperture for introduction of



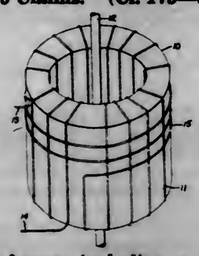
a syringe nozzle and a syringe closure for said aperture.

2,283,669
CLEANING TOOL AND DIPPER FOR OIL BURNERS
Carl P. Edgren and John E. Olson, St. Paul, Minn.
Application May 9, 1940, Serial No. 334,220
1 Claim. (Cl. 30—136)



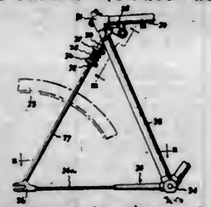
A tool for cleaning pot burners comprising a receptacle having a bottom, elongated sides, a closed end and an open end, one of said sides projecting outwardly beyond the opposing side, a blade projecting from said open end substantially in the plane of said bottom and extending between the extremities of said sides obliquely across the open end of said receptacle in a continuous convex arc, and a handle secured to the closed end of said receptacle and extending upwardly therefrom.

2,283,670
TRANSFORMER
Sidley O. Evans, Columbus, Ohio, assignor to General Electric Company, a corporation of New York
Application April 30, 1940, Serial No. 332,520
5 Claims. (Cl. 175—358)



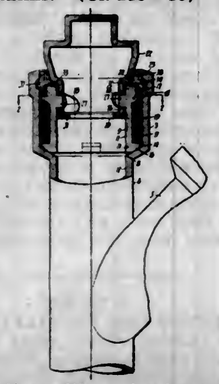
1. A transformer including a core member, a primary winding, a secondary winding adapted to be connected to a relatively low reactance load, a compensating windidg, and means for connecting said secondary winding in series with said compensating winding, said compensating winding being disposed so as to magnetize said core member at substantially right angles to the main flux of the transformer, and having such a value of reactance that the current of said secondary-burden series circuit will be substantially 180 degrees out of phase with the transformer magnetizing current.

2,283,671
SPRING SUSPENSION DEVICE FOR CYCLES AND MOTORCYCLES
Albert Daley Finlay and Robert Studdy Finlay, Melbourne, Victoria, Australia
Application February 13, 1940, Serial No. 318,756
In Australia March 16, 1939
3 Claims. (Cl. 280—284)



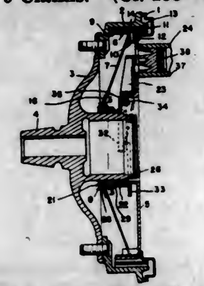
1. A spring suspension for cycles, including a main frame including an upright member, a pair of fork members connected to said upright member and extending rearwardly therefrom to accommodate a wheel between them, each fork member being of tubular stock, flattened and diametrically increased for a portion of its length to provide a section of relatively increased resiliency, the ends of the resilient sections being terminally formed to support a wheel axle, a stay extending upwardly and forwardly from the axle-receiving end of each fork member, the upper ends of the stays extending forwardly of and on opposite sides of the upright member of the main frame, and a shackle supported by a member of the main frame and to which the upper ends of the stays are connected forward of the upright member of the main frame.

2,283,672
PIPE CONNECTION FOR PLUGS AND THE LIKE
Joseph E. Frances, Oakland, Calif.
Application August 12, 1940, Serial No. 352,297
9 Claims. (Cl. 138—89)



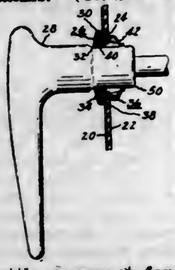
1. In combination with a pipe having an open end, a sleeve inserted into said pipe and having the outer end thereof longitudinally spaced inwardly from said pipe end, a member inserted into said pipe and having a rotary attachable and detachable connection to said sleeve and having its periphery spaced from the interior of said pipe to define an annular space therebetween, a portion of said sleeve projecting laterally into said space, and casting metal cast and calked into said space and against said sleeve portion to lock said sleeve into said pipe end and to seal said member therein, the periphery of said member being circular in cross section and tapered towards its inserted end so as to permit rotation in and longitudinal withdrawal of said member from said casting metal and to provide a correspondingly tapered wall on the interior periphery of said casting metal against which the periphery of said member may be seated upon re-attachment to said sleeve after withdrawal therefrom.

2,283,673
FRICTION COUPLING
Phelps M. Freer, Detroit, Mich.
Application August 2, 1940, Serial No. 349,884
9 Claims. (Cl. 188—78)



1. In a friction coupling, the combination of relatively rotatable elements, one of said elements having an internal friction face and the other of said elements comprising a friction member movable radially into engagement with said friction face, actuating means for said friction member comprising a member the inner portion of which is axially movable and the outer portion of which is radially movable and operatively connected to said friction member and means for axially moving the inner portion of said last mentioned member, and eccentric means other than said actuating means for mounting said last mentioned member to concentrically position said friction member relative to said element having said friction face.

2,283,674
ESCUTCHEON FOR AUTO DOORS
Harvey D. Geyer, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 13, 1938, Serial No. 224,710
4 Claims. (Cl. 292—357)

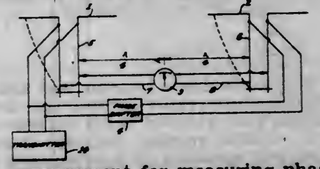


1. An anti-rattle grommet for a door handle comprising an annular ring of rubber, including a plurality of inwardly extending serrated portions of more resilient rubber than the remainder of the ring, and metallic clamping means for holding said ring and for attaching the assembled grommet to a door panel.

2,283,675
METHOD FOR PREVENTING INTERGRANULAR OXIDATION IN TERNARY BERYLLIUM ALLOYS
Richards H. Harrington, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application June 14, 1940, Serial No. 340,564
2 Claims. (Cl. 148—13.2)

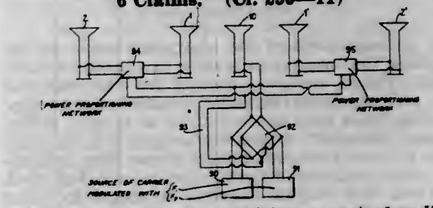
1. The method of preventing intergranular oxidation in wire or strip form of ternary alloys consisting of copper, beryllium and metal from the group cobalt and chromium which comprises heating said wire or strip to an elevated temperature in an atmosphere free from oxygen, water vapor and carbon dioxide to thereby effect a solid solution condition in the alloy, and quenching said strip or wire from said temperature in a solution of sodium hydroxide.

2,283,676
PHASE MEASURING ARRANGEMENT
Armig G. Kandoian, New York, N. Y., assignor to International Telephone & Radio Manufacturing Corporation, a corporation of Delaware
Application December 1, 1939, Serial No. 307,063
16 Claims. (Cl. 172—245)



1. An arrangement for measuring phase relations between high frequency currents in a plurality of elements energized by high frequency means, comprising a two-conductor line having a high impedance at the frequency of the energy to be measured connected at one end to one of said elements and connected at the opposite end to another of said elements, and a meter connected intermediate said connections for measuring the voltage between the conductors of said line, said meter being connected at a point approximately one-quarter wave length removed from each of said connections.

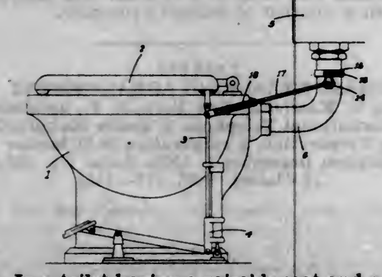
2,283,677
LOCALIZER BEACON
Armig G. Kandoian, New York, N. Y., assignor to International Telephone & Radio Manufacturing Corporation, a corporation of Delaware
Application September 27, 1940, Serial No. 358,677
6 Claims. (Cl. 250—11)



3. A radio beacon comprising a central radiat-

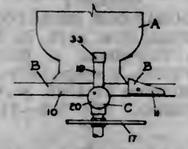
ing means and a plurality of auxiliary radiating means disposed on each side thereof, and means for energizing said central radiating means in a predetermined phase relation and said auxiliary radiating means on one side in phase opposition with respect to those on the other side and in phase quadrature with respect to said central radiating means, said auxiliary radiating means being energized with different current intensities from the current intensity of the central radiating means and with different relative current intensities from one another.

2,283,678
COMBINATION LIFT AND FLUSHING DEVICE FOR TOILETS
Richard P. Landis, Grass Valley, Calif., assignor to Diamond Sanilift Company, Inc., San Francisco, Calif., a corporation of California
Application July 23, 1940, Serial No. 346,930
3 Claims. (Cl. 4—251)



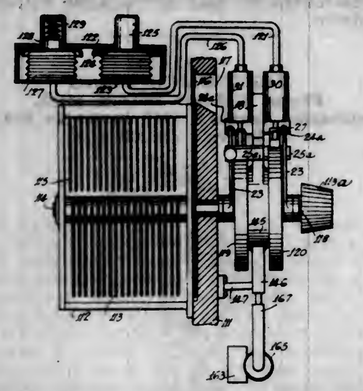
1. In a toilet having a raisable seat and a normally closed flush valve behind the seat; the combination with a device to lift the seat and including a vertical member disposed to one side of the seat and mounted for substantially vertical movement in a guided path, of a valve actuating mechanism including a rod pivoted rearwardly of and projecting forwardly on said side of the seat to a forward termination rearwardly of said member, and a sleeve pivoted on the member and slidably engaging over the forward end of the rod.

2,283,679
WASHING DEVICE
Harry D. Lathrop, Chicago, Ill., assignor to The Lathrop-Paulson Company, Chicago, Ill., a corporation of Illinois
Application December 19, 1938, Serial No. 246,696
9 Claims. (Cl. 141—7)



3. In apparatus of the character set forth for washing the interior of a milk can provided with a constricted neck, a conveyor for carrying said can with the neck thereof lowermost, a fluid pipe leading from a pressure source of supply, a discharge member swingably supported by said fluid pipe and when in operative position extending into said can beyond the constricted neck thereof, said conveyor being arranged to bring the neck of the can into engagement with the discharge member to swing the same downwardly to a position beneath the can, and means for urging the discharge member upwardly towards vertical position whereby when the neck of the can is released from engagement with the discharge member the member moves upwardly into the can.

2,283,680
JUSTIFYING MECHANISM
Matthew H. Loughridge, Bogota, N. J.
Application May 15, 1940, Serial No. 335,391
28 Claims. (Cl. 74—1)



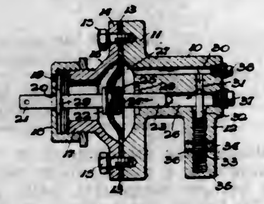
1. A justifier mechanism comprising a shaft to be adjusted in two directions, a drum mounted on said shaft, a lever for rotating said drum in one direction, a second drum mounted on said shaft, a lever for rotating said second drum in a direction opposite to the first drum, a cylinder with a piston connected with the first lever, a second cylinder with a piston connected with the second lever, an air pressure generator connected with the first cylinder and a second air pressure generator connected with the second cylinder.

2,283,681
TURNSTILE
Soren Madsen, Bergenfield, N. J., assignor, by direct and mesne assignments, to Percy Manufacturing Company, Inc., New York, N. Y., a corporation of New York
Application June 6, 1939, Serial No. 277,614
7 Claims. (Cl. 194—55)



4. A turnstile rotatable through predetermined successive arcuate movements, locking means therefor, a movable lock release means, a passage for the reception of a coin or like actuating element, a movable member for engaging such element and shifting it in contact with and to move said lock release means, a pivoted rocking member connected to said movable member, and means rotatable by the turnstile and adapted to engage said rocking member to swing it positively in one direction and then in the opposite direction and correspondingly to shift said movable member back and forth.

2,283,682
DASH POT
John T. Marshall, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application August 26, 1941, Serial No. 408,373
3 Claims. (Cl. 188—97)

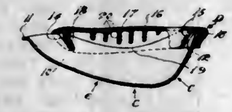


1. A dash pot comprising a housing having a longitudinal cylinder, a piston therein, a rod-like extension connected to said piston, a transversely extending diaphragm of flexible material being tightly connected to said piston, means for sealing the edge of said diaphragm to said housing, a fluid chamber about said piston at one end thereof, said diaphragm forming a flexible wall thereof, a longitudinally extending bore having one end opening into said chamber and its other end opening into a transversely extending orifice in communication with said cylinder, a transversely extending metering pin extending into said orifice, and means on said rod-like extension for connecting said piston and extension to an element to be time-controlled, whereby, upon motion of said extension to withdraw said piston from said cylinder, the rate of withdrawal of said piston is governed by the rate at which fluid is drawn through said orifice into said cylinder.

2,283,683
CHEMICAL PROCESS
Elmore Louis Martin, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 18, 1940, Serial No. 346,139
7 Claims. (Cl. 260—404)

1. The process for the isolation of a long-chain aliphatic aminoacyl compound which comprises treating the crude compound with an aqueous solution of an organic acid present in at least stoichiometric proportions with respect to said long-chain aliphatic aminoacyl compound, filtering the resulting mixture and precipitating the desired aminoacyl compound from the filtrate by treating same with an alkaline agent.

2,283,684
ATHLETIC PROTECTOR
William B. Matthews, Irvington, N. J.
Application July 11, 1941, Serial No. 401,894
6 Claims. (Cl. 128—160)



1. An athletic protector comprising a body member of generally cup-shaped configuration, said member being provided with marginal slots, and a resilient shock absorbing member positioned in said slots and stretched taut therebetween.

2,283,685
HIGH RESISTANCE CONDUCTING COATING FOR ELECTRIC INSULATORS
George L. McCreery and Van E. Campbell, Wadsworth, Ohio, assignors to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application August 20, 1940, Serial No. 353,368
9 Claims. (Cl. 174—140)



8. An insulator having a high resistance conduction coating thereon, said coating comprising particles of magnetic iron oxide mixed with a fusible glassy material and having electrical contact with one another to provide electrical continuity while being protected from mechanical and electrical impairment by said fusible glassy material.

2,283,686
CONDITIONING APPLIANCE FOR ORAL AND DENTAL USE
Alice W. McCune, St. Louis, Mo.
Application April 6, 1940, Serial No. 328,167
3 Claims. (Cl. 128—62)

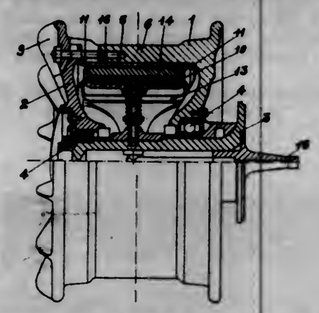


1. A cleaning and massaging device for the mouth and gums, comprising an elongate sleeve element of a resilient material, the sleeve element being of a transverse section over the greater portion of its length such as to provide a substantially planar lateral face, modified by a set of integral resilient ribs thereon, each rib of the set being arranged at an acute angle to the major axis of the sleeve element, each rib further being of a rectilinear trend and of widely rounded sectional contour, and the sleeve element being formed to provide a longitudinal bore over the greater portion of its length, adapted to receive a handle.

2,283,687
BRAKING ARRANGEMENT FOR THE WHEELS OF AIRCRAFT
Jean Mercier, Neuilly-sur-Seine, France
Application June 22, 1939, Serial No. 280,460
In Great Britain July 1, 1938
10 Claims. (Cl. 188—152)

1. In a wheel brake device chiefly adapted for use on aircraft or the like, a brake drum connected with the usual rotating part of the wheel, a relatively stationary support provided with a hollow space therein, an inflatable means in said hollow space, brake shoes located between said inflatable means and brake drum, abutment, guiding and recoil means for said brake shoes, yieldingly connected to said support, and adapted to slide radially with respect to this latter, said abutment, guiding and recoil means being fur-

ther located between the ends of two successive brake shoes and bearing thereupon, said guiding

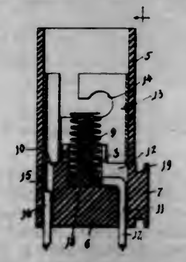


means consisting of metal bars, having a mean section of substantially T-shape.

2,283,688
PROCESS FOR MOLDING COLLOIDAL MATTERS
Paul Louis Mergier and Pierre Edouard Leroy, Paris, France
No Drawing. Application December 19, 1938, Serial No. 246,762. In France December 20, 1937
6 Claims. (Cl. 18—55)

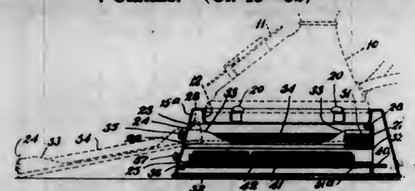
1. The process of producing molded articles which comprises making a mixture of a viscous solution of a colloid in a volatile solvent and a sufficient amount of a solid granular colloid soluble in said solvent to harden the mixture by absorption of the solvent by said granular colloid, pouring the mixture into a mold while the mixture is still fluid, letting the mixture remain in the mold for a sufficient time to permit hardening of the mixture by the absorption of solvent by the granular colloid and removing the molded article from the mold.

2,283,689
PILOT SOCKET FOR RADIOS
Douglas T. Mitchell, Scarsdale, N. Y.
Application April 19, 1941, Serial No. 389,318
2 Claims. (Cl. 173—328)



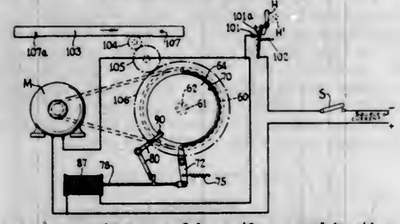
1. In a light socket a molded shell of plastic material having a bottom at one end, said bottom having a circular recess concentric with the shell, a metallic coil spring positioned in the recess, said bottom having wire ducts therethrough entering the shell, and a cut out connecting one of the ducts to the recess, a wire connected to the spring, passing through the cut out into the duct, a metallic open sleeve fitting snugly into the shell and having means for engaging a bulb, and a wire in the other duct connected to the sleeve.

2,283,690
BASE ATTACHMENT FOR TELEPHONES
Whitney K. Munson, East Orange, N. J.
Application August 29, 1939, Serial No. 292,387
7 Claims. (Cl. 45—82)



2. A telephone base attachment of the class described comprising a substantially rectangular body having beveled peripheral walls, an elliptical socket in the upper surface of said body for the reception of a telephone base, means disposed within the socket for engaging a telephone base arranged therein to prevent accidental displacement of the attachment from said base, two reinforcing and load bearing members arranged with opposed surfaces in spaced parallel relation to each other within the attachment between the bottom of said recess and the lower portion of the attachment, opposed surfaces of said members having horizontally alined grooves forming guide channels, a drawer part slidably engaging the channels of said members and being normally contained within the attachment and adapted to be extended through one wall thereof for accessibility outwardly of said attachment, and means limiting outward movement of said drawer.

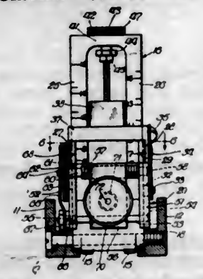
2,283,691
TIE STITCHING MACHINE
Rudolf Naftali and Valentine Naftali, Pelham Manor, and Henry Naftali, New York, N. Y., assignors to American Machine & Foundry Company, New York, N. Y., a corporation of New Jersey
Original application March 11, 1937, Serial No. 130,252. Divided and this application August 11, 1939, Serial No. 289,522
11 Claims. (Cl. 112—219)



1. In a sewing machine, the combination of alternately operating upper and lower needle bars, a double pointed needle having an eye located between the points, means for alternately connecting the needle with each needle bar, means for threading the needle, said last named means comprising a hook adapted to pass through the eye of the needle, a traveling work carrying platform, means to move said platform transversely of the longitudinal axis of said needle, means for driving said sewing machine to cause reciprocal movement of said needle bars, switching means for rendering said last named means ineffective, said switching means being disposed in the path of travel of said platform and so positioned as to be actuated by said platform at the end of its working travel, and means

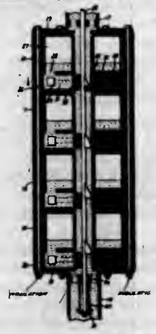
for causing said needle bars to come to rest at a predetermined position when said driving means is rendered ineffective, said predetermined position being such that the said needle will be connected to the upper needle bar.

2,283,692
GUN SIGHT
George F. Paldani, Waukegan, Ill.
Application April 25, 1941, Serial No. 390,255
2 Claims. (Cl. 33—55)



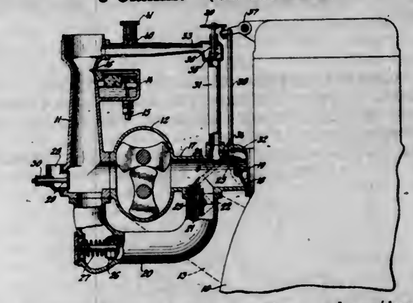
1. In gun sight means of the character described, a sight leaf, a carriage slidably mounted on said leaf for adjustment lengthwise thereof, means for adjusting said carriage, the latter comprising two rearwardly extending arms parallel with the sides of said leaf, a guide pin secured in said arms extending therebetween and projecting outward beyond one thereof, a sight block slidable on said pin, an adjusting screw parallel with said pin extending between and slidably mounted in said arms, said screw having threaded engagement with said block, an adjusting disc secured on said screw adjacent the outer side of said one arm of said carriage and cooperating therewith for limiting inward movement of said screw, said disc having therein detent receiving recesses, a leaf spring secured on the projecting portion of said pin extending over the outer face of said disc and having a detent element disposed to engage in said recesses, said spring urging said screw inward, and a sight carried by said block.

2,283,693
ELECTRIC CIRCUIT BREAKER
William E. Paul, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application February 29, 1940, Serial No. 321,470
4 Claims. (Cl. 200—150)



1. An electric circuit breaker including relatively movable contacts, means forming an interrupting chamber and an annular exhaust chamber, said chambers being interconnected by an opening, said contacts being separable in said interrupting chamber substantially adjacent said opening, an arc-extinguishing liquid filling said interrupting chamber and said opening and partially filling said exhaust chamber, the remaining unfilled portion of said exhaust chamber containing a compressible gas, means including a piston for actuating said contacts and for simultaneously effecting a displacement of a portion of said liquid from said contact chamber over the point of separation of said contacts and through said opening into said exhaust chamber, said gas being compressed to allow said displacement of said liquid to occur at a relatively high velocity, and operating means for effecting movement of said actuating means including a rod member passing substantially through the center of said annular chamber and having a cam normally abutting against said piston, said cam being movable relative to said piston upon movement of said rod so as to allow movement of said piston to cause actuation of said contacts and displacement of said liquid.

2,283,694
CARBURETING APPARATUS
Lester E. Perrine, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Substituted for abandoned application Serial No. 42,010, September 25, 1935. This application March 25, 1938, Serial No. 198,003
8 Claims. (Cl. 123—119)

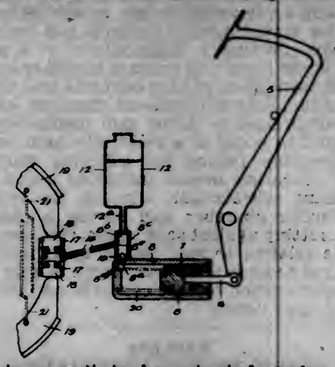


1. Internal combustion engine carbureting apparatus which includes a duct for conducting air from the atmosphere to the engine, a blower for moving air through the duct from the atmosphere to the engine, means through which fuel may be introduced into the duct, a valve for regulating the passage of combustible mixture from the carbureting apparatus to the engine, a passage for conducting combustible mixture from the engine side to the atmospheric side of the blower and the specified means, and a valve for regulating the passage of combustible mixture from the engine side to the atmospheric side of the blower and the specified means connected to the first specified valve so that it is closed when the first specified valve is opened and opened when the first specified valve is closed.

2,283,695
HYDRAULIC CONTROL MECHANISM
James Henry Pratt, Birmingham, Gilbert Edgar Manley, Earlswood, and Albert Henry Godfrey Girling, Edgbaston, Birmingham, England
Application June 19, 1941, Serial No. 398,850
In Great Britain June 5, 1940
3 Claims. (Cl. 60—54.5)

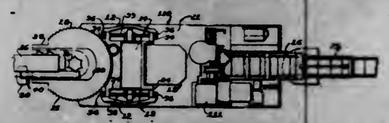
1. In a hydraulic control mechanism, in com-

bination, a master cylinder, a piston therefor, a reservoir having a vent to the atmosphere, a check valve connecting the master cylinder with the reservoir, having a valve member that is normally in position to open communication between the reservoir and the master cylinder; and is moved to a position to close said communication by flow of fluid from the master cylinder to the



reservoir, a unit to be actuated, and a transmission line leading to said unit and connected to said check valve at a point whose communication with the reservoir is unobstructed by the valve member when the valve member is in said former position, and whose communication with the master cylinder is unobstructed by the valve member when the valve member is in said latter position.

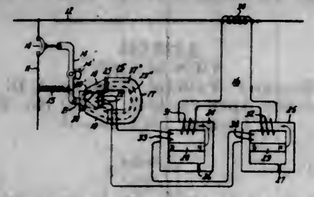
2,283,696
KERF-CUTTING MINING MACHINE
Thomas E. Pray, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application October 25, 1940, Serial No. 362,743
6 Claims. (Cl. 262—28)



1. In a mining machine, a base frame having a plurality of widely spaced upright supports thereon, a frame vertically adjustable between said upright supports, a turntable rotatably mounted at the forward end of said frame and having an arcuate driving member around its rear end, power means on said frame engaged with said driving member for swinging said turntable reversely, and a horizontally projecting cutter bar supported on the front of said turntable in substantially the same horizontal plane as said driving member.

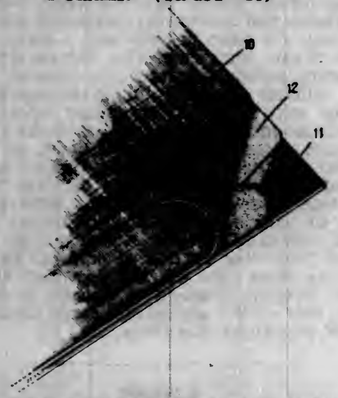
2,283,697
ELECTRORESPONSIVE DEVICE
David C. Prince, Swarthmore, Pa., assignor to General Electric Company, a corporation of New York
Application April 3, 1940, Serial No. 327,616
4 Claims. (Cl. 175—294)

1. In combination, an electric conductor, an electroresponsive device, means associated with said conductor for causing said electroresponsive device to be operative in accordance with an abnormal electrical condition occurring in said conductor, said electroresponsive device comprising a pair of core members, a permanent-magnet biasing member for each of said core members for effecting substantial saturation of said core members during normal electrical conditions in said conductor, and means associated with said



cores and having induced therein an excitation component which is always in the same direction when an abnormal electrical condition occurs in said conductor regardless of the instantaneous direction of current flow in said conductor at the instant said abnormal electrical condition occurs.

2,283,698
LAUNDERABLE MULTIPLY FABRIC
Frank R. Redman, Yardley, Pa., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y., a corporation of New York
Application October 7, 1936, Serial No. 104,396
4 Claims. (Cl. 154—46)

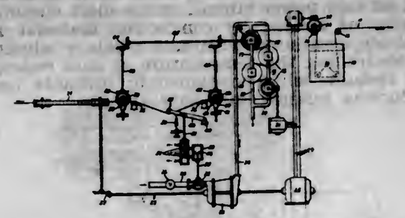


1. A multi-ply fabric for use in articles subjected to laundering comprising a plurality of fabric plies having therebetween a preformed sheet of a thermoplastic adhesive comprising an acrylate adapted to retain its adhesive and color properties at laundering temperatures and in the presence of laundering fluids, and adapted to be rendered thermoplastic at temperatures below the scorching point of said fabric, each of said plies and said therein between bonded sheet being permeable after laundering to laundering fluids at laundering temperatures.

2,283,699
TEXTILE AND PAPER MACHINE DRIVE
Ernest L. Richardson, Melrose, Mass., assignor to General Electric Company, a corporation of New York
Application June 18, 1938, Serial No. 214,605
5 Claims. (Cl. 34—52)

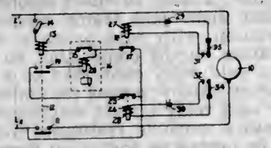
1. A textile drive arrangement for driving a plurality of sections including a tenter through which a continuous band of material passes during operation comprising an elastic fluid turbine, means for mechanically driving the tenter from

the turbine, an electric generator driven by the turbine, and a plurality of motors electrically



connected to the generator for separately driving the other sections at predetermined relative speeds to each other and to the tenter.

2,283,700
PROTECTIVE SYSTEM
Edward J. Schaefer, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application November 29, 1940, Serial No. 367,791
16 Claims. (Cl. 175—294)



1. An overload protective system comprising in combination, an electrical load device, switching means for connecting said load device to a source of electric energy, time element means, first load responsive means, said time element means and said first load responsive means being operable independently to disable said switching means, and second load responsive means arranged normally to disable said time element means.

2,283,701
CIRCUIT INTERRUPTING ELEMENT
Sidney R. Smith, Jr., Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application August 18, 1939, Serial No. 290,859
9 Claims. (Cl. 200—135)



1. A circuit interrupting element including a first terminal means, a second terminal means comprising a flexible stranded connection conductor having a terminal consisting solely of a portion of the conductor, itself, the wire strands of which portion of the conductor are consolidated into a compact solid mass wherein the wire strands are integrally united by at least a part of the metal of the strands themselves, the compact consolidated condition of said portion of the conductor being permanent and maintained solely by the integral union between the wire strands of said conductor portion, and an intermediate circuit interrupting section joined at one end to said first terminal means and joined at the other end directly to said conductor terminal.

2,283,702
CALENDAR
Jung Jin Sow, Vancouver, British Columbia, Canada
Application January 7, 1941, Serial No. 373,446
1 Claim. (Cl. 40—108)



A calendar comprising a body, a vertically slotted cylindrical member non-rotatably secured to and spaced from the body, a sleeve rotatable about the body and within the slotted cylindrical member, the vertically slotted cylindrical member being of a length corresponding to the length of the rotatable sleeve, a second sleeve below the rotatable sleeve and a third sleeve below the second sleeve said second and third sleeves being unslotted, one of said second and third sleeves being rotatable about the body, said cylindrical member having indicia indicative of the months of the year, said first rotatable sleeve having columns of year numbers and columns of month index numbers adapted to be moved into register within the slot of the non-rotatable cylindrical member, said second sleeve having seven consecutive numbers and characters indicative of the days of the week, said numbers being correlated to and imposed above the week day characters and said third sleeve having seven columns of numbers indicative of the dates of the month, the characters and numbers of the second sleeve and the month date numbers of the third sleeve being adapted to be brought into proper register to show the date and day of any month.

2,283,703
FINGERNAIL STENCIL
Norma Stedman, New York, N. Y.
Application September 6, 1941, Serial No. 409,783
4 Claims. (Cl. 132—88.5)



1. A stencil for applying liquid to nails comprising a cap made of elastic material and adapted to fit over the end of a finger and provided with an opening therein positioned to register with at least a portion of the nail of a finger,

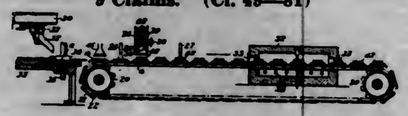
the front edge of said opening being positioned to lie under the nail to be treated and side elements along the sides of said opening and having respective edges adapted to be drawn, by the elasticity of said material, between the nail and the cuticle adjacent the side of the nail.

2,283,704
DISPLAY HOLDER FOR BAKERY GOODS
Erich O. Steudel, Chicago, Ill.
Application June 21, 1940, Serial No. 341,641
2 Claims. (Cl. 229—2.5)



1. A plate of the character described comprising a sheet of fibrous material formed with a bottom surface having perforations scattered through substantially the entire area thereof, and an outwardly flaring side wall having oppositely disposed elongated finger and knife receiving openings therein and also provided with a plurality of perforations between said finger and knife receiving openings, at least one of said finger and knife receiving openings having the lower straight edge thereof substantially in the plane of the bottom surface of the plate for insertion of a knife between the article contained therein and the bottom surface of the plate so as to facilitate the removal of the article from the plate.

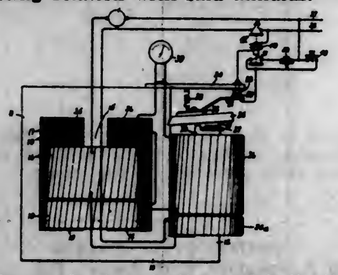
2,283,705
MANUFACTURE OF TILE
Andrew H. Stewart, Shields, Pa.
Original application October 6, 1936, Serial No. 104,186, now Patent No. 2,145,103, dated January 24, 1939. Divided and this application May 16, 1938, Serial No. 208,116
9 Claims. (Cl. 49—81)



2. In a method of manufacturing tile of vitreous or other suitable material and of attaching a metal mount element thereto, the steps of forming a tile from molten material, preheating a metal mount element and placing it in abutment with the tile, and spraying molten metal upon adjacent portions of the tile and the mount element to form a physical bond therebetween while the tile is still hot from the shaping operation and the element is still hot from the preheating operation.

2,283,706
PROTECTIVE SYSTEM AND DEVICE
Allen G. Stimson, Marblehead, Mass., assignor to General Electric Company, a corporation of New York
Application May 27, 1941, Serial No. 395,430
11 Claims. (Cl. 177—311)

1. A protective system for an alternating current power circuit comprising a relay provided with an actuating winding and circuit controlling contacts actuable thereby, a resistor having a negative temperature coefficient of resistance for controlling said actuating winding, said resistor being connected in electric circuit relation with said actuating winding, a primary winding arranged for energization in accordance with the load on said power circuit, and a short circuited annulus of electrically conducting material inductively associated with said primary winding for controlling the temperature of said resistor, said resistor being positioned in intimate heat conducting relation with said annulus.



10. An overload protective and indicating device for an alternating current power circuit comprising a magnetic frame member, a load responsive primary winding mounted upon said frame member, a short circuited secondary winding mounted upon said frame member in inductive relation with said primary winding, a relay actuating circuit comprising an actuating winding for said relay connected to a source of electric energy supply, means for controlling the current in said relay circuit comprising a body of temperature sensitive resistance material arranged to be heated by induction from said primary winding, and an electric indicating instrument connected in said relay circuit thereby to be energized in accordance with the current controlled by said resistance material and to give an indication at a remote point of the load upon said power circuit.

2,283,707
TORQUE WRENCH
Paul A. Sturtevant, Elmhurst, Ill.
Application March 28, 1938, Serial No. 198,375
2 Claims. (Cl. 265—1)



1. A measuring wrench comprising a head having an object-engaging formation, a deflecting measuring beam extending from and fixed to said head, a handle including a gripping portion and an extension, said gripping portion telescoping a portion of said extension in a spaced relation and being pivotally secured at an intermediate portion thereon to said extension, a graduated dial fixed to said handle, and a pointer for cooperation with said dial to indicate tangential force applied on said handle relative to said object.

2,283,708
APPARATUS FOR INSTALLING COLLAPSIBLE TUBULAR RIVETS
Herbert L. Trautmann, Venice, Calif., assignor, by mesne assignments, to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application July 20, 1940, Serial No. 346,591
9 Claims. (Cl. 218—19)

1. Apparatus for installing an internally threaded tubular rivet, said apparatus comprising a housing having an anvil at one end, a threaded draw-rod in the housing and extending through and beyond the anvil and adapted to engage the threaded portion of the rivet, and power-operated means associated with said housing and



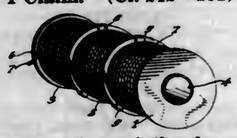
rod for effecting a longitudinal movement of the rod with respect to the anvil to collapse the rivet, the rod moving means comprising a fluid-pressure cylinder mounted upon the housing, a piston therein and cam means actuated by said piston for actuating said rod.

2,283,709
MATCH BOX
David L. Van Ness, Los Angeles, Calif.
Application February 19, 1940, Serial No. 319,707
6 Claims. (Cl. 206—29)



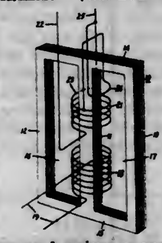
1. In a match book combination comprising a back panel and front panel joined together by a top wall, a match pad fixed to the lower edge of the back panel, a vertical channel at the rear of the pad between certain matches of the pad, an elastic band having one end fixed to the lower edge of the back panel and the other end fixed to the front panel near the top edge thereof, an intermediate portion of the band passing through the channel and freely stretching therein when the front panel is raised, said band causing the front panel to return when it is released.

2,283,710
MEASURED-SECTION ROPE PACKAGE
Grenville F. Waterbury, New York, N. Y.
Application March 3, 1939, Serial No. 259,600
1 Claim. (Cl. 242—161)



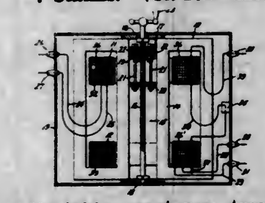
A rope package for retail sales comprising a plurality of mandrels, a coil of rope wound upon each of the mandrels and having a predetermined measured length, the rope of the several coils being integrally connected, spaced disks carried by each mandrel and abutting the ends of the rope coil thereon, and means carried by the disks and comprising clip members carried by one disk and folded over the peripheral areas of an abutting disk and connecting abutting disks of the several mandrel and disk structures and detachably connecting the same together in such manner as to bond the mandrels, disks and rope into a rigid, self-sustaining body.

2,283,711
ELECTRICAL WINDING
Alanson U. Welch, Jr., Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application April 26, 1940, Serial No. 331,768
6 Claims. (Cl. 175—358)



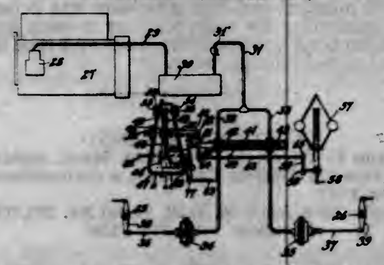
1. A transformer having a magnetic core providing a plurality of parallel flux paths, a winding on said core having a plurality of series turns linking all of said flux paths and means connected between said turns and a terminal for said winding providing an additional effective fractional turn of said winding and so arranged as to maintain a substantially uniform distribution of flux in said parallel flux paths.

2,283,712
TRANSFORMER
Alanson U. Welch, Jr., Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application September 20, 1940, Serial No. 357,601
7 Claims. (Cl. 171—119)



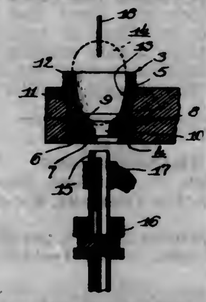
1. An adjustable reactance transformer including primary and secondary main windings, a pair of auxiliary windings, said auxiliary windings having substantially the same electrical characteristics and being disposed so that current flow therein is in opposite directions, means for moving one of said main windings and one of said auxiliary windings for varying the leakage flux path between said primary and secondary windings, means for connecting one of said main windings across a load to obtain a range of reactance during movement of said movable windings, and means for connecting said one of said main windings and said auxiliary windings in series with a load in order to obtain a second range of reactance during movement of said movable windings.

2,283,713
VEHICLE BRAKING SYSTEM
Austin M. Wolf, Plainfield, N. J.
Original application April 15, 1933, Serial No. 666,332. Divided and this application May 29, 1939, Serial No. 276,248
31 Claims. (Cl. 188—10)



3. In combination with vehicle braking means and a single brake pressure regulating means therefor; controlling means connected with said regulating means, comprising an inertia device responsive to vehicle deceleration and a device responsive to vehicle speed, said devices conjointly and independently actuating said regulating means.

2,283,714
CUP ASSEMBLY FOR PITTING MACHINES
Oscar M. Wolff, Chicago, Ill.
Application October 23, 1940, Serial No. 362,422
2 Claims. (Cl. 146—27)



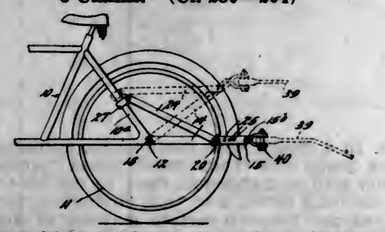
1. A cup assembly for an olive pitting machine having a carrying table provided with spaced openings for receiving and retaining a plurality of cup assemblies and each assembly adapted to receive and retain an olive during the pitting operation, comprising a cup member adapted to be mounted and retained in one of said openings and provided in its base with an inwardly extending flange, an insert received within said cup member and bearing on said flange, and a removable thimble slidably received within said cup member with its base seating upon said insert and its upper edge projecting above said cup member, said insert and thimble having aligned recesses so contoured as to provide a receptacle conforming to the shape of an olive of a predetermined size and to retain such olive during the pitting operation, the outer contour of said thimble conforming to the inner contour of the cup member so that said thimble may be readily lifted out of the cup member without removal of the latter and replaced by a thimble having the same outer configuration but having a recess for receiving and conforming to an olive of a size differing from that received in the first mentioned thimble.

2,283,715
METHOD AND PRODUCT OF TONE-AND-COLOR SYNTHESIS IN COLOR REPRODUCTION
Francisco G. Yanes, New York, N. Y.
Application January 3, 1940, Serial No. 312,307
6 Claims. (Cl. 95—2)



1. As a new article of manufacture, a supported color picture combining in register a plurality of subtractively complementary colored part-pictures of photographic character and consisting of different thicknesses of transparent color matter corresponding to their variation in density, each one of said part-pictures held in a different layer and having clear uncolored portions corresponding to the whites, continuous and solid portions corresponding to the heavy-tones, and broken portions corresponding to the middle-tones, these broken portions formed by slightly separated and extremely small light transmitting color sections, these small sections in each of the part-pictures arranged in different position as to those in other part-pictures, the small sections of each color part-picture partly overlapping and partly in juxta-position with the small sections of other colored part-pictures, the overlapping sections showing a subtractive chromatic effect and the ones in juxta-position a brightening additive effect.

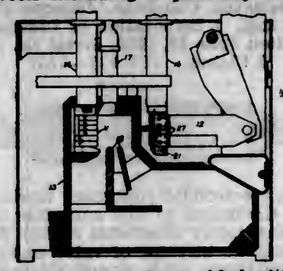
2,283,716
HITCH MECHANISM
Michael Antimo Zalimeni, Ashtabula, Ohio
Application September 23, 1939, Serial No. 296,323
3 Claims. (Cl. 280—204)



1. In a hitch mechanism, a pair of strap members adapted to fit on each side of a bicycle rear axle, each of said strap members being pivoted at one end on opposed ends of the said axle and being pivotally connected at each of their other ends by a pintle, a bolt extending through the central portion of the pintle and resiliently coupled thereto, a clevis carried by the bolt and connected to said pintle for rotational movement relative thereto, and means to rotatably connect the end of a trailer draw bar within said clevis member.

2,283,717
ELECTRIC CIRCUIT BREAKER
Percy Bartlett, Springfield, Pa., assignor to General Electric Company, a corporation of New York
Application November 22, 1940, Serial No. 366,656
3 Claims. (Cl. 200—163)

1. A sliding contact for an electric circuit breaker having a reciprocating conducting member and a stationary support associated therewith comprising means interposed between said support and said conducting member for insuring continuous electrical current conduction therebetween including a plurality of current-

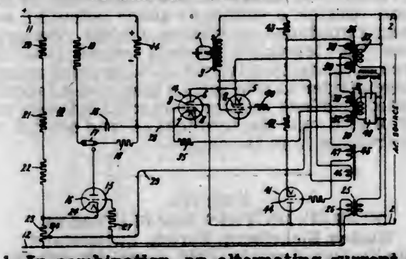


conducting members each provided with a curvilinear surface and all loosely mounted on a common shaft, and resilient means for biasing said contacts into engagement with both said support and said conducting member.

2,283,718
CHEMOTHERAPEUTICAL SUBSTANCES
Ernst Bergmann, Felix Bergmann, and Leon Haskelberg, Rehoboth, Palestine
No Drawing. Application August 17, 1939, Serial No. 290,670
4 Claims. (Cl. 260—148)

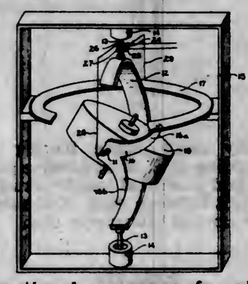
1. Chemotherapeuticals in which p-aminophenyl-arsonic acid is coupled by an azo bond to a substance selected from the group consisting of 1-naphthylamine-5-sulfonic acid, 1-naphthylamine-5-sulfonic acid-N-acetamide, 1-naphthylamine-5-sulfonamide and naphthalene-5-sulfonic acid substituted in the 1-position by an amido group of urea.

2,283,719
ELECTRIC VALVE CIRCUITS
Maurice E. Bivens, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application February 3, 1941, Serial No. 377,098
15 Claims. (Cl. 250—27)



1. In combination, an alternating current circuit, a load circuit, electric translating apparatus connected between said circuits and comprising a pair of electric valve means for controlling the transfer of power between said circuits and each comprising a control member, means connected to the control member of one of said electric valve means for rendering said one electric valve means conductive during a predetermined portion of a half cycle of anode-cathode voltage, and means for rendering the other electric valve means conducting during a succeeding half cycle of anode-cathode voltage for a period of time corresponding to the period of conduction of said one electric valve means and comprising means for impressing on the control member of the other electric valve means a biasing voltage tending to maintain said other electric valve means non-conducting, means for impressing on the control member of said other electric valve means a voltage of peaked wave form of a magnitude insufficient in itself to render said other electric valve means conducting and means responsive to the operation of said one electric valve means for producing a voltage sufficient to overcome the effect of the biasing voltage thereby permitting said voltage of peaked wave form to render said other electric valve means conducting.

2,283,720
GYROSCOPE
Hermann Brandt, Berlin-Charlottenburg, Germany, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany, a corporation of Germany
Application April 13, 1940, Serial No. 329,549
In Germany September 15, 1936
3 Claims. (Cl. 74—5)

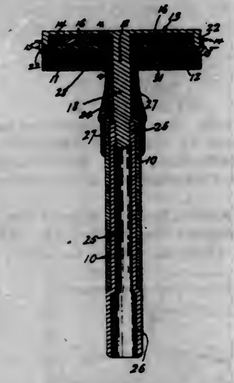


1. A directional gyroscope for aircraft comprising a gimbal ring having inner and outer trunnions, the outer trunnions mounting the gimbal ring for rotation about a vertical axis within a member rigidly mounted in the aircraft, a second gimbal ring mounted upon said inner trunnions within said first gimbal ring for pivotal movement about a horizontal axis, a rotor mounted within said second gimbal ring for spinning about a normally horizontal axis perpendicular to said first horizontal axis, an annular member secured within and carried by the first member and defining a braking surface coaxial with the outer trunnions, and a braking member comprising two oppositely disposed arms mounted upon one of said inner trunnions for tilting movement in one direction about said first horizontal axis in response to the tilting movement of the rotor spin axis during a deceleration in the spinning of said rotor whereby one of said arms engages the annular member to brake tilting movement of the rotor spin axis in said one direction, said braking member being mounted for tilting movement in an opposite direction whereby the other of said arms engages the annular member to brake the tilting movement of the rotor spin axis in said opposite direction.

2,283,721
SELF-SHARPENING SAFETY RAZOR
James B. Brockhurst, Red Bank, N. J.
Application November 2, 1939, Serial No. 302,581
18 Claims. (Cl. 30—36)

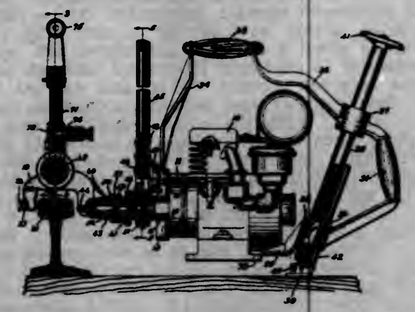
1. A safety razor comprising a head, a blade actuator transversely movable on said head, means for guiding said blade actuator trans-

versely of said guard, a flexible blade connected to said blade actuator to move therewith, a cap over said blade, means for preventing relative rotation of said cap and head, sharpening surfaces on said cap at the edges of its inner face for engagement by the edges of said blade when the latter is moved transversely, a handle at the rear of said head, and a manually controlled connection between said cap and said handle for clamping the parts and releasing them.



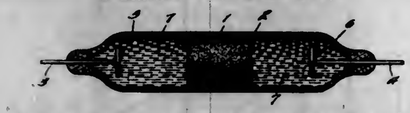
18. A safety razor blade having a central transverse guiding slot, a transverse guiding slot at each end, and a central longitudinal actuating and holding slot between each of the end guiding slots and the central transverse slot.

2,283,722
PORTABLE POWER DRILL
Homer P. Chandler, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application December 3, 1940, Serial No. 368,355
11 Claims. (Cl. 77—8)



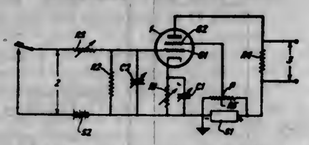
1. In a portable track drill a power motor having a drive shaft, spaced bracket arms rigidly secured in fixed position to said motor, one at each side of said drive shaft for engaging a railway rail, means for connecting a drill to said drive shaft in axial alignment with said drive shaft and for projecting said drill against a rail engaged by said bracket arms, and an adjustable support secured to said motor at the side thereof opposite said bracket arms to aid said bracket arms in supporting said motor with the axis of said drive shaft in a horizontal position while said drill is projected to penetrate said rail.

2,283,723
POROUS ELECTRODE ELECTROLYTIC CONDENSER
Richard U. Clark, Fort Wayne, Ind., assignor to The Magnavox Company, Incorporated, Fort Wayne, Ind., a corporation of Indiana
Application June 13, 1939, Serial No. 278,825
5 Claims. (Cl. 175—315)



1. In an electrolytic condenser having a container, an electrolyte in said container and non-film forming input electrodes sealed therein, a porous electrode therefor of valve metals sealed in said container, said porous electrode being mounted intermediate the input electrodes so as to effectively block high current flow directly between said input electrodes but permit a charge to accumulate upon said porous electrode.

2,283,724
KEYING CIRCUIT
Victor James Cooper, Writtle, England, assignor to Radio Corporation of America, a corporation of Delaware
Application April 26, 1941, Serial No. 390,505
In Great Britain April 3, 1940
2 Claims. (Cl. 178—66)

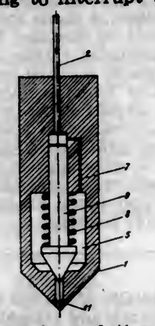


1. In a keying circuit for a radio transmitter, an electron discharge tube having at least a cathode, an anode, a control grid and a screen grid, keying means connected through an adjustable resistor to the control grid, also through a source of keying potential equivalent to a cut-off bias, and through a second resistor to said cathode, an adjustable capacitor in shunt with said second resistor, an output circuit which includes said second resistor, a source of anode potential, and a load impedance, a voltage divider connected across the terminals of said anode potential source, a connection from a suitable point on said voltage divider to said screen grid, and a capacity shunted grid leak resistor connected between said control grid and the terminal of said second resistor remote from the cathode.

2,283,725
FUEL-INJECTION NOZZLE VALVE
Gustav Eichelberg, Zurich, Switzerland
Application April 18, 1939, Serial No. 268,602
In Germany April 11, 1938
10 Claims. (Cl. 299—107.6)

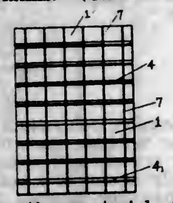
1. A fuel injection nozzle having a chamber in which pressure accumulation of the fuel takes place, said chamber being provided with an outlet, a valve element adapted to close said outlet, a second chamber into which part of the valve element extends and into which fuel is adapted to be admitted under pressure so as to act on the valve element to press the same towards its seat, and a passageway leading from the accumulation chamber and so constructed and arranged as to be in communication with the second chamber when the valve element is

in its closed position, said valve element in its open position acting to interrupt the communi-



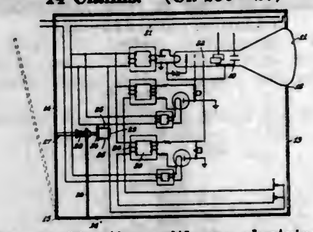
cation between the accumulation chamber and said second chamber.

2,283,726
HEAT INSULATING STRUCTURE
Joseph L. Finck, Brooklyn, N. Y.
Application November 23, 1938, Serial No. 242,044
11 Claims. (Cl. 72—116)



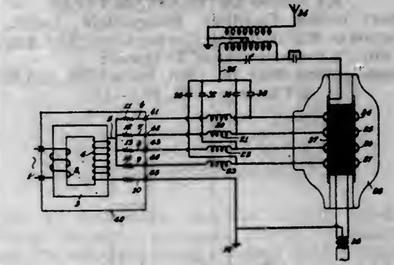
1. In a construction material of the character described, a base material, a reflecting coating material on said base material forming an integral reflecting and insulating sheet, said sheet including the base material and coating material being bent at spaced intervals to form ridges and stiffening members arranged on one side of said sheet extending along said ridges and maintaining said ridge form.

2,283,727
METHOD AND MEANS FOR SAFELY SERVICING THERMIONIC APPARATUS
Edward G. Gage, Brooklyn, N. Y., assignor of two-thirds to Leon Ottinger, New York, N. Y.
Application June 4, 1941, Serial No. 396,546
14 Claims. (Cl. 250—27)



1. The combination with an electrical circuit having a source of dangerously high potential, a thermionic asymmetric device operating at a dangerously high potential and optimum anode current, conductors between the source of high potential and the said device affording a permanently continuous connection therebetween, and resistance permanently located in series with the source of dangerously high potential such that all exposed parts of the circuit lie between the resistance and said device, said resistance being of such high magnitude that upon establishment of a closed circuit through said exposed parts and the human body the current in such closed circuit is reduced by said resistance to a safe value; of a casing enclosing said source, asymmetric device, resistance, and conductors, the casing including a movable closure member therefor, means to decrease the magnitude of the anode current flow to the asymmetric device to a sub-normal operative value, and means cooperating with said closure member to render said current-decreasing means ineffective when the closure member is applied to the casing to close the same and to restore thereby the optimum current flow.

2,283,728
TRANSFORMER MEANS PERMITTING SAFE HANDLING OF DANGEROUS CIRCUITS
Edward G. Gage, Brooklyn, N. Y., assignor of two-thirds to Leon Ottinger, New York, N. Y.
Original application May 29, 1940, Serial No. 337,806. Divided and this application July 12, 1941, Serial No. 402,065
4 Claims. (Cl. 250—27)

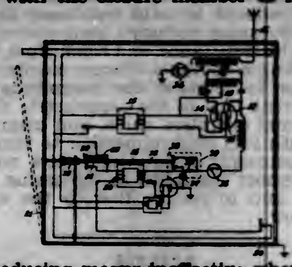


1. A transformer having an input winding, a high-voltage, dangerously-high-current, output secondary winding for connection to a work circuit, said winding including two output branches, one of said branches embodying a plurality of leads connected in parallel and each normally providing a dangerous current at the optimum voltage, electronic means for recombining at the work circuit the individual currents of the said leads, together with a housing for the recombining means to prevent bodily contact therewith, and current limiting means included in series in the respective leads in close proximity to the said one branch of an order of magnitude sufficient to hold the current flow in each lead, at the optimum voltage, to a safe value.

2,283,729
MEANS FOR SAFELY SERVICING THERMIONIC APPARATUS
Edward G. Gage, Brooklyn, N. Y., assignor of two-thirds to Leon Ottinger, New York, N. Y.
Application October 21, 1941, Serial No. 415,894
14 Claims. (Cl. 250—27)

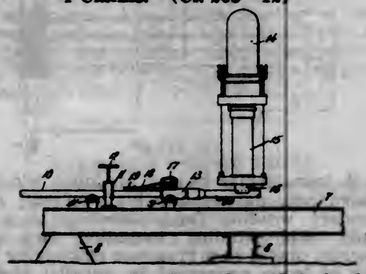
1. The combination with an electrical power supply including a transformer having core, primary, and secondary elements affording a source of dangerously high potential and dangerous current, a thermionic device having a cathode and an anode connected to the secondary element of said transformer, associated visual indicating means, and power-reducing means cooperating with one of the transformer elements to reduce the anode current from the secondary element to a safe value operative to afford visual

indications at said indicating means; of a casing enclosing said transformer, power-reducing means, and thermionic device, the casing including a closure member therefor, and means cooperating with the closure member to render the



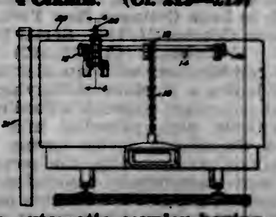
power-reducing means ineffective when the closure member is applied to the casing to close the latter and to render said power-reducing means effective only when the closure member is moved to permit access to the interior of the casing.

2,283,730
METHOD OF TESTING PIPES
Robert Irving Gardner, Bakersfield, Calif., assignor to Richfield Oil Corporation, Los Angeles, Calif., a corporation of Delaware
Application May 14, 1940, Serial No. 335,027
4 Claims. (Cl. 265—12)



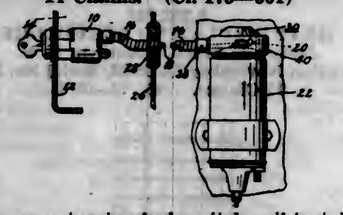
1. The method of testing pipe joints to detect failures which comprises supporting two joined sections of pipe at spaced points intermediate the ends of the joined sections, applying a predetermined bending force less than the yield point of the joint to the pipe adjacent one end, and measuring the deflection at the joint.

2,283,731
COUPLER OPERATING MECHANISM FOR DUMP CARS
Richard C. Goss, Bridgeville, Pa., assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application April 4, 1941, Serial No. 386,865
4 Claims. (Cl. 212—219)



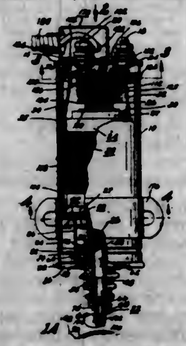
1. In an automatic coupler having automatic coupling mechanism, the combination; a car mounted on a track having a coupler; a control lever pivotally mounted on said coupler and adapted to be moved from an operative to an inoperative position; a shaft rotatably mounted on said car; a pair of handles fixed to said shaft whereby to manually rotate said shaft; a lever fixed on said shaft; a chain connecting said lever and said control lever; a notched lever fixed to said shaft; a pivoted lever on said car having a portion engageable with said notched lever; means adjacent said track engageable with said pivoted lever to disengage it from said notched lever; said shaft being gravitationally rotated by said handles and chain to restore said control lever to operative position.

2,283,732
LOCK SWITCH COIL
Herman L. Hartsell and Dalphin L. Hittle, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 28, 1939, Serial No. 296,905
14 Claims. (Cl. 175—361)



1. In an extension lock switch coil installation for automotive vehicles, in which a relatively large diameter armor cap having lock provisions is to be securely united to a coil housing of an intermediate diameter adapted for secured coupling with an armor cap of small diameter, the combination comprising, an adapter having a portion including provisions for self locking engagement with the large diameter armor cap, an extension from the bottom of said portion having provisions for secured coupling with the coil housing of intermediate diameter, means for mounting the coil, cap and adapter in that relation that separation thereof is practically impossible until the coil is removed from its support.

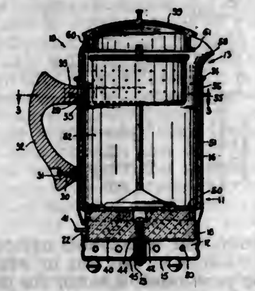
2,283,733
IGNITION COIL
Herman L. Hartsell and Dalphin L. Hittle, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 28, 1939, Serial No. 296,906
7 Claims. (Cl. 175—361)



1. An oil or wax impregnated ignition coil,

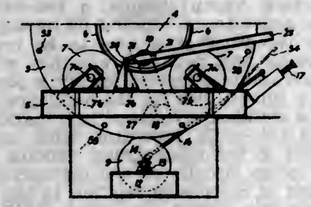
comprising in combination, a tubular metallic casing, metallic end members secured to the ends of said tubular casing in sealing relation, an outside iron assembly lining the tubular casing, a coil body having windings, means centralizing the windings with respect to the casing and including winding locators, one at each end of the coil body, means including the winding locators and inward extensions of the tubular casing for holding the windings and outside iron assembly against shifting in the casing, there being circumferential spacing between the coil body and the outside iron assembly for the reception of an impregnant.

2,283,734
ELECTRICALLY HEATED RECEPTACLE
Murray Hoffeld, Brooklyn, Sol Forman, New York, and Maurice L. Warner, Brooklyn, N. Y., assignors to Forman Brothers, Inc., Brooklyn, N. Y., a corporation of New York
Application October 24, 1938, Serial No. 236,700
9 Claims. (Cl. 65—61)



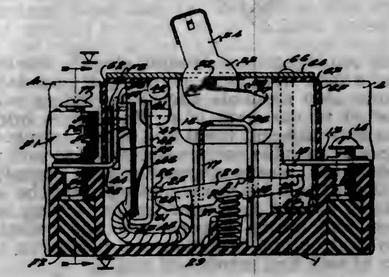
4. An article of the character described, comprising a holder, a receptacle of vitreous material within said holder formed with a depression in its outer surface and below the upper edge thereof, and provided with a pouring spout, a handle fixed to said holder, said article being adapted to be lifted as a whole by means of the handle and tilted for pouring liquid from said receptacle, and means on said holder engaging said receptacle and projecting into said depression, to prevent said receptacle from accidentally falling out of the holder, when said article is lifted and tilted for pouring.

2,283,735
CENTRIFUGAL CONCRETE PIPE MOLDING MACHINE
Walter Reginald Hume, Melbourne, Victoria, Australia, assignor to Hume Pipe Company (Australia) Limited, Melbourne, Victoria, Australia
Application April 25, 1941, Serial No. 390,392
In Australia December 6, 1939
24 Claims. (Cl. 25—30)



11. Improvements in or relating to the centrifugal molding of concrete pipes and the like consisting in the combination of a tubular mold mounted for rotation about a horizontal axis and having ends provided with central openings, levers pivotally mounted upon a frame externally of the mold ends, a supporting bar attached at its ends to said levers and passing through the central openings in the mold ends in a position parallel with its axis, arms extending outwardly from said bar towards the periphery of the mold and screeding means carried on the outer ends of said arms and adapted to be pressed against the concrete in the mold by operation of said levers.

2,283,736
CIRCUIT BREAKER
John G. Jackson, Detroit, Mich., assignor to Square D Company, Detroit, Mich., a corporation of Michigan
Application November 3, 1938, Serial No. 238,604
17 Claims. (Cl. 200—122)



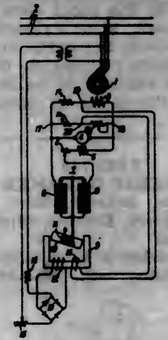
1. In an automatic electric circuit breaker, relatively movable contacts, current responsive means for effecting separation of said contacts, when the current exceeds a predetermined value for a predetermined period of time, and means for lowering the value of current at which said current responsive means will operate to effect said separation, including a readily interchangeable resistance unit connected in series circuit with the current responsive means, said resistance unit being insulated from relative heat transfer with respect to said current responsive means except by conduction through said series connection.

2,283,737
PAINT MIXING DEVICE
Frederick Joudry, Kelowna, British Columbia, Canada
Application February 24, 1941, Serial No. 380,115
1 Claim. (Cl. 259—144)



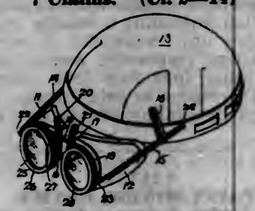
A device for mixing paint and the like comprising a blank of sheet material folded into a cone with an overlapping portion in the form of a half cone, one free edge of the blank being cut away to define an opening communicating between the cone and the half cone and the opposite free edge of the blank being turned down into contact with the peripheral wall of the cone, the inner surface of the blank forming a continuous unbroken wall completely surrounding the cone and the half cone and a support for the cone.

2,283,738
ELECTRICAL REGULATING SYSTEM
George H. Jump, Newton, Mass., assignor to General Electric Company, a corporation of New York
Application March 12, 1941, Serial No. 382,893
6 Claims. (Cl. 171—119)



1. In combination, a dynamo electric machine having a field winding, a plurality of impedance elements, said elements and said winding being connected in the form of a Wheatstone bridge having non-adjacent input and output terminals, a source of variable voltage connected to said input terminals, means responsive to an operating condition of said machine controlled by the energization of said field winding for varying said voltage, and means responsive to the potential across said output terminals for modifying the action of said first mentioned means.

2,283,739
GOGGLE FRAME
Charles K. Kelley, Chicago, Ill.
Application August 5, 1940, Serial No. 351,524
7 Claims. (Cl. 2—14)

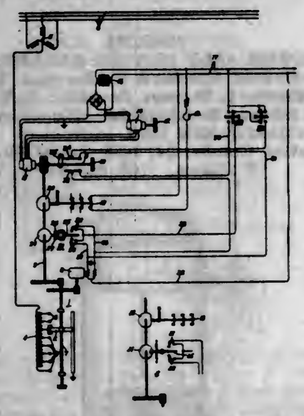


1. An eye protector of the character described, comprising a frame formed to provide a pair of spaced apart loop openings each arranged to receive a goggle cup therein and to frictionally retain said cups turnable for adjustments therein, and upwardly extending portions on said loops whereby to expand them for the release of the goggle cups.

2,283,740
ADHESIVE COMPOSITION
Hanns Klemm, Boblingen, Wurttemberg, Germany, assignor, by mesne assignments, to Davis & Company, Incorporated, Houston, Tex., a corporation of Nevada
No Drawing. Application December 13, 1937, Serial No. 179,544
5 Claims. (Cl. 260—45)

1. A spreadable cold setting adhesive composition comprising particles of a comminuted C-stage synthetic resin, a water soluble partially reacted cold setting urea-formaldehyde condensation product in the form of an aqueous glue, and a hardening catalyst, said urea-formaldehyde condensation product glue being present in an amount up to about 10 parts to about 1 part of said synthetic resin.

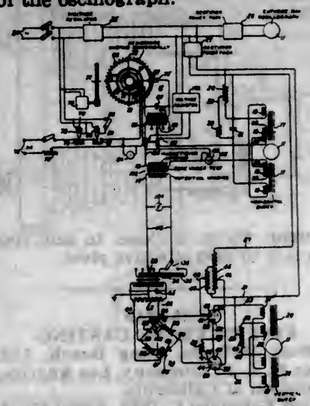
2,283,741
CONTROL SYSTEM
Thomas C. Lennox, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application April 2, 1941, Serial No. 386,507
8 Claims. (Cl. 171—242)



1. In combination, a movable device having a plurality of stations at any one of which it is to be accurately positioned, a motor for driving said device, an indicator for signifying which of said stations said device is nearest to, manually actuable means for selectively causing said motor to drive said device in either direction, and means responsive to the release of said manually actuable means when said device is between two stations for automatically reversing said motor and running said device back to the last station it has passed, said last-mentioned means including a normally closed double-throw switch for controlling the direction of operation of said motor and being operable from one throw to the other whenever said device returns to the last station it has previously passed.

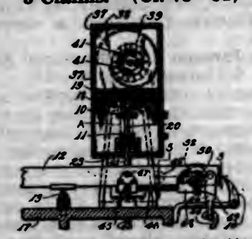
2,283,742
HYSTERESOSCOPE
Stephen C. Leonard, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application March 20, 1940, Serial No. 324,984
11 Claims. (Cl. 175—183)

1. A magnetic core tester comprising a cathode ray oscillograph having a screen and horizontal and vertical sweep circuits, a two-cycle magnetizing generator, a winding jig having a cavity for the reception of a core to be tested, and magnetizing and potential windings adapted to be broken and reconnected readily, a phase shifter and a slip-on disk for the oscillograph screen having a standard hysteresis loop marked thereon, said two-cycle generator being operatively connected to the magnetizing winding and one of the sweep circuits of the oscillograph being connected in responsive relation to the magnetizing winding circuit, the phase shifter being interposed between the potential winding and the remaining sweep circuit of the oscillograph, and the slip-on disk being arranged to fit over the screen of the oscillograph.



11. In a magnetic core tester for endless- or closed-magnetic-circuit cores, an openable electrical winding for interlinking with such a core, said openable winding comprising a center post with a plurality of longitudinally extending conductors therein insulated from each other, a plurality of hinged contact fingers radially mounted around said center post each adapted to make electrical contact with one end of one of said center post conductors and a plurality of turn-closing conductors each electrically connected between one of said contact fingers and the opposite end of one of said center post conductors other than the center post conductor adapted to make electrical contact with the same contact finger, one of said turn-closing conductors being interrupted and having a pair of terminals interposed therein for connection to an electrical device to be brought into electromagnetic relation with a magnetic core, said hinged fingers having two alternative positions, in one of which contact is made with the said first ends of said center post conductors and in the other of which clearance is provided surrounding the center post for admitting or withdrawing a magnetic core to be tested.

2,283,743
TESTING RESILIENT MATERIALS
Edward T. Lessig, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application March 3, 1939, Serial No. 259,560
5 Claims. (Cl. 73—51)



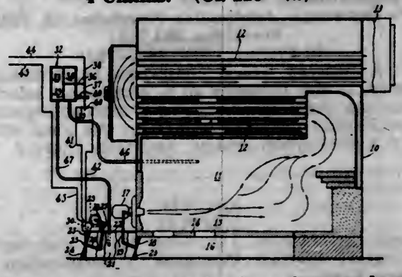
1. The method of vibration testing an article of flexible material which method comprises the steps of maintaining a floating and substantially constant, applied load of high inertia to the article at a portion thereof while the load is unrestrained against movement except by its high inertia, and subjecting another portion of the article under said load to vibration at high frequency above the natural resonance frequency of the loaded article such that the first said portion of the article remains substantially stationary while the other said portion moves with the impressed vibration.

2,283,744
AUTOMATIC LAND LEVELER
William F. Lethlean, Haines, Oreg., assignor of one-half to F. D. Baird, Baker, Oreg.
Application May 8, 1941, Serial No. 392,567
4 Claims. (Cl. 37—150)



1. A land leveler comprising a pair of spaced runners, head and tail boards at the ends of the runners forming gauges to limit penetration of the runners in soft ground, means for adjusting the head and tail boards vertically, brackets carried by the runners, a scraper blade between the runners, a bell crank lever connecting the scraper blade to one of the brackets, a pair of ground engaging wheels disposed laterally of the runners, beams pivotally connecting the wheels to the other of the brackets, a shaft having a connection with the bell crank lever, and an arm carried by the beams having a connection with the shaft, the arm, the shaft and the bell crank lever moving the wheels and blade vertically in opposite directions as the wheels ride over inequalities in the ground to level off the ground.

2,283,745
REGULATING DEVICE FOR FURNACES OR THE LIKE
Harold A. Lines, West Haven, Conn., assignor of one-half to Albert G. Purdue, New Haven, Conn.
Application October 5, 1939, Serial No. 298,023
4 Claims. (Cl. 110—72)



1. In a controlling device for a furnace having a combustion chamber and checkerwork below said chamber, an air chamber below said checkerwork, an auxiliary chamber having an opening leading into said air chamber, a closure member movable to vary the effective size of said opening, said auxiliary chamber having a second opening through which air is admitted thereto, means to control the quantity of air so admitted, said means comprising a closure member movable to vary the effective size of said opening, actuating means for said closure member, and means to control said actuating means, said controlling means comprising a diaphragm one side of which

is exposed to pressure in the combustion chamber and the other side to pressure obtaining in the auxiliary chamber, and connections between said diaphragm and said actuating means whereby the difference in the pressures obtaining in said combustion chamber and said auxiliary chamber are maintained at a constant value.

2,283,746
RACK DRIVE
Willy Lehe, Berlin-Siemensstadt, Germany, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany, a corporation of Germany
Application May 16, 1940, Serial No. 335,639
In Germany May 4, 1939
5 Claims. (Cl. 74—422)

1. A rack drive comprising a single driving



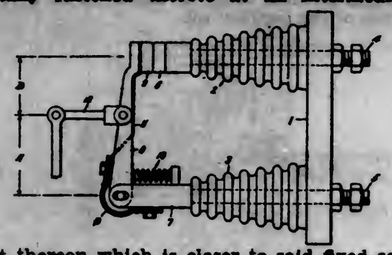
means, a rack having toothed portions on opposite sides thereof, a reduction mechanism comprising a plurality of rotatable gear means defining a plurality of gear stages, pinions mounted for rotation with each of said gear means so that the pinions of the gear means of the first gear stage engage with a gear means of the next gear stage and the pinions carried by the gear means of the last-named gear stage engage with a gear means of the succeeding gear stage in a manner whereby the gear means of the last gear stage are driven by the pinions of the preceding gear stage, the gear means of the first gear stage being driven by said driving means, and the pinions of the gears means of the last gear stage engaging said rack at the opposite toothed portions thereof for moving said rack transversely of said reduction mechanism.

2,283,747
VULCANIZATION OF RUBBER
Roger A. Mathes, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application November 16, 1939, Serial No. 304,784
12 Claims. (Cl. 260—784)

1. A process which comprises vulcanizing a rubber in the presence of a compound selected from the class consisting of 2-mercapto-oxazolines having no substituents on the ring other than hydrocarbon groups, and salts thereof.

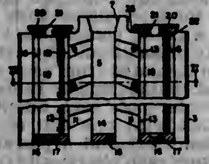
2,283,748
SWITCH
Joseph X. Mathieu, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application May 20, 1941, Serial No. 394,328
4 Claims. (Cl. 200—87)

1. An electric switch having a fixed contact and an effectively pivoted switch arm whose free end carries a contact surface which makes and breaks contact with said fixed contact and whose pivoted end has a predetermined amount of lost motion, said switch being normally so oriented with respect to a circuit whose current it interrupts that the resultant electromagnetic force acting on said arm tends to rotate it about its pivot in a direction to open said switch, and means for reversing this electromagnetic effect comprising an operating member for said arm pivotally fastened thereto at an intermediate



point thereon which is closer to said fixed contact than it is to said effective pivot.

2,283,749
FINE TEXTURE CASTING
Samuel Ross McBride, Long Beach, Calif., assignor to H. L. F. Company, Los Angeles, Calif., a corporation of California
Application February 6, 1940, Serial No. 317,578
11 Claims. (Cl. 22—126)

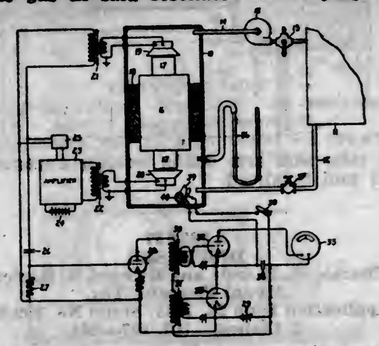


1. Means for casting metal, comprising an axially sectioned metal shell, sand liner sections therein forming when assembled mold cavities and a mold-filling well therebetween, a settling chamber at the bottom of the filling well, a plurality of vertically spaced openings from said filling well to said mold cavities, said openings expanding outwardly and downwardly to the mold cavities to a substantial extent, whereby jet effects of metal flowing into said cavities are minimized, and at their entrance to the mold cavities having their vertical dimension approximately one-half that of the intervening wall between openings and being also from one-third to one-fourth the diameter dimension of the mold cavities, metal blocks at the ends of said mold cavities including core-centering means, and chill cores between said blocks.

2,283,750
APPARATUS FOR MEASURING THE DENSITY OF GASES
Walter Mikelson, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application January 16, 1940, Serial No. 314,074
2 Claims. (Cl. 73—51)

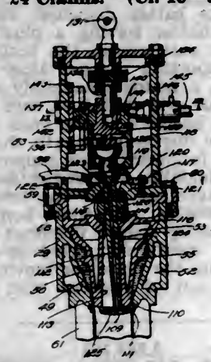
1. Gas density measuring apparatus comprising a hollow cylindrical resonator open at its two ends, electromagnetic sound transmitting and sound receiving devices located at the end openings of the resonator for the purpose of communicating sound waves between them through said resonator, facilities for filling said resonator with the gas to be investigated, a regenerative feed-back oscillation circuit including an amplifier connected between said sound transmitting and sound receiving devices, said circuit being conditioned so as to be free to oscillate at a frequency which is determined by the density of the gas in said oscillator, frequency measuring apparatus connected to measure the frequency

of said oscillation circuit, a variable impedance associated with the connections to said frequency meter and means responsive to the temperature of the gas in said resonator for varying said



impedance in a direction and to the extent necessary to compensate said frequency measuring apparatus for such variations in the frequency of said oscillation circuit as are due to changes in the temperature of the gas in the resonator.

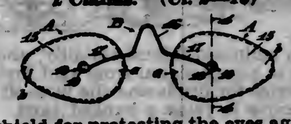
2,283,751
METHOD AND APPARATUS FOR FORMING HOLLOW ARTICLES FROM ORGANIC PLASTIC MATERIAL
Enoch T. Ferngren, Little Neck, Long Island, N. Y., assignor to Plax Corporation, Hartford, Conn., a corporation of Delaware
Application August 17, 1939, Serial No. 290,607
24 Claims. (Cl. 18—5)



1. The method of forming a hollow article from organic plastic material, comprising extruding a hollow tubular body portion of such material in a plastic and moldable condition from an annular extrusion orifice, closing the end of the extruded portion of material by positively applying uniform pressure to predetermined areas on opposite sides thereof to weld such areas together, and severing a portion of the extruded material along a shear line disposed at the boundary of said area distant from the extrusion orifice.

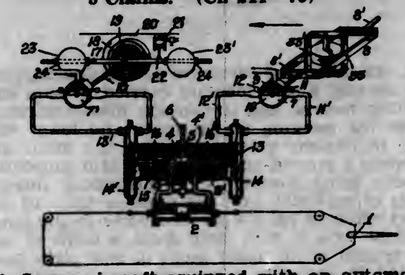
5. The method of forming an annular portion of a tubular body of organic plastic material to a desired shape while the material of the body is in a moldable condition, comprising supporting such a tubular body of plastic material in a mold having a forming cavity of the desired configuration, forming a selected portion of said tubular body in said mold by bringing a continuously rotating forming tool into engagement with the inside of said portion to force such portion of the plastic material into the cavity of the mold by moving the center of the rotating forming tool in a path to cause it to engage and form the plastic material progressively about the interior of the portion to be formed, positively rotating the forming tool about its own axis at a speed such that the peripheral speed of the portion of the forming tool in contact with the plastic material is different from the speed of movement of the point of engagement of the forming tool with the plastic wall engaged thereby.

2,283,752
EYE SHIELD
Faust R. Genarti, Los Angeles, Calif.
Application May 10, 1940, Serial No. 334,394
2 Claims. (Cl. 2—15)



1. A shield for protecting the eyes against wind and sun, comprising an ovate shell arcuate longitudinally, and segmental transversely, and having a margin contoured to substantially conform to the surface portions of the face at the base portion of the eye lids, a spring wire nose engaging clip for connecting a pair of said shells, and means for securing the ends of said clip to points adjacent the central portions of said pair of shells.

2,283,753
ANTIHUNTING AUTOMATIC PILOT
William M. Harcum, East Orange, N. J., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application June 9, 1939, Serial No. 278,254
5 Claims. (Cl. 244—76)

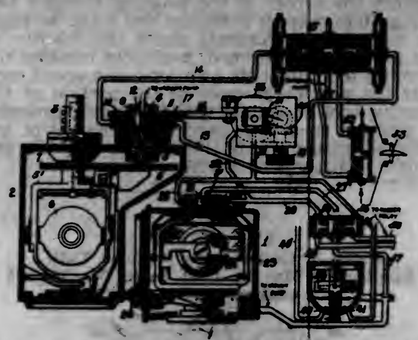


1. In an aircraft equipped with an automatic pilot, the combination with the said automatic pilot, of a dynamic oscillatory vibration absorber of the spring centralized inertia type mounted on said craft and having a natural period substantially the same as the natural period of the craft, and pick-off means thereon operating through said automatic pilot to oppose the hunting of the craft.

2,283,754
AUTOMATIC BANKING MEANS FOR AIRPLANE GYRO PILOTS
William A. Matthews, Brooklyn, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application April 8, 1939, Serial No. 266,767
12 Claims. (Cl. 244—79)

1. In an automatic pilot for aircraft, direction

maintaining means, an air-flow pick-off thereat for controlling the rudder, an attitude maintaining device, a pick-off thereat for controlling the



ailerons to maintain lateral stability, and means responsive to a turn signal from said first named pick-off device for displacing the pick-off on said attitude device to cause a banked turn.

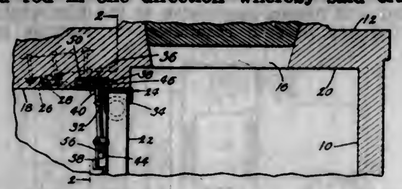
2,283,755
ARTICLE OF FURNITURE
Ludwig Mies, Chicago, Ill.
Application November 26, 1938, Serial No. 242,480
In Germany August 14, 1935
11 Claims. (Cl. 155—59)



1. An article of furniture comprising supporting means, a seat member carried by said supporting means, said supporting means having a front leg merging at its upper and lower ends into rearwardly extending arms, the lower arm forming a ground-engaging base, said supporting means being formed of a continuous integral strip of material, and the cross-sections of said strip taken in planes perpendicular to the longitudinal axis of said strip from a point of said lower arm to an upper point of said strip being varied in shape to give decreasing moments of resistance against bending stresses caused by a constant load on said seat member.

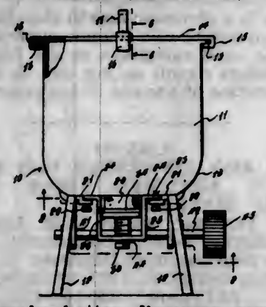
2,283,756
CONVERTIBLE BULKHEAD FOR REFRIGERATOR CARS
Arthur F. O'Connor and John S. Lundvall, Chicago, Ill., assignors to Union Asbestos & Rubber Company, Chicago, Ill., a corporation of Illinois
Application September 18, 1941, Serial No. 411,310
5 Claims. (Cl. 105—376)

1. In a refrigerator car having a transverse bulkhead movable longitudinally of the car, an arm pivotally secured to the car adapted to swing into holding engagement with the upper portion of the bulkhead, a revolvable rod mounted upon the car adjacent said arm, a crank on said rod intermediate its ends and underlying said arm, a lever on said rod adapted to rotate said rod in one direction whereby said crank



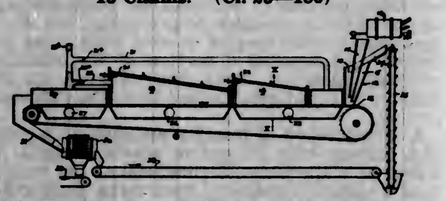
will raise said arm out of holding engagement with said bulkhead.

2,283,757
DISPENSER
Charles M. Parrott and Richard B. Barrett, Mount Pleasant, Tex.
Application June 26, 1941, Serial No. 399,880
3 Claims. (Cl. 107—28)



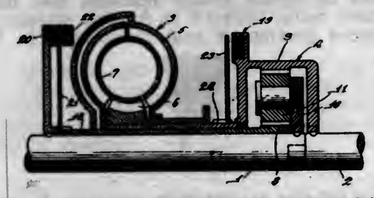
1. A pancake batter dispenser comprising a container for batter having a plurality of depending outlet passages in the bottom thereof, means for supporting the container in an elevated position, a frame detachably mounted on the underside of said container, said frame having depending hangers at the ends thereof, an elongated plate disposed beneath the container, spring pressed follower means supported by said hangers for yieldably supporting said plate in frictional engagement with the lower ends of said outlet passages, said plate being provided with longitudinally spaced openings, and manually operated means supported by said frame for reciprocating the plate for moving its openings into and out of registry with said outlet passages.

2,283,758
PROCESS FOR CALCINING PRECIPITATED CALCIUM CARBONATE AND RECOVERING CO_2 GAS THEREFROM
Robert D. Pike, Piedmont, Calif.
Application January 9, 1939, Serial No. 249,946
13 Claims. (Cl. 23—186)



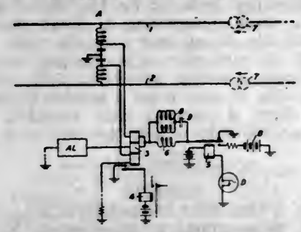
11. The process of calcining calcium carbonate in relatively small nodules on a moving grate which comprises protecting said nodules from overburning during calcination by a contiguous layer of discrete inert extraneous material unaffected by calcining heat, and calcining the so-protected nodules by the passage of gases therethrough so that the gases first contact the said extraneous material.

2,283,759
TRANSMISSION
Willard L. Pollard, Evanston, Ill., assignor to Adiel Y. Dodge, Rockford, Ill.
Application May 19, 1939, Serial No. 274,470
17 Claims. (Cl. 74—189.5)



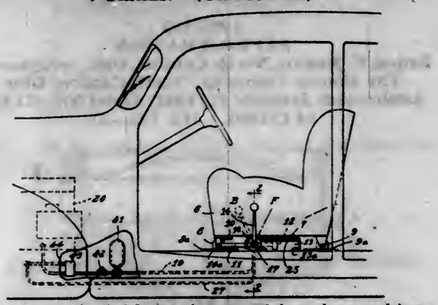
1. A variable speed transmission comprising a drive shaft, a driven shaft coaxial therewith, and means for transmitting power between said shafts comprising a fluid torque converter and a planetary gear construction, said fluid torque converter comprising a drive rotor, a stator and a driven rotor, said planetary gear construction comprising a sun gear, a ring gear, a gear carrier and planetary gearing carried by said gear carrier and meshing with said sun gear and ring gear, said gear carrier being connected to rotate with said drive shaft, said ring gear being connected to rotate with said driven shaft and said torque converter serving to transmit power between said sun gear and one of said shafts, means for holding said sun gear against rotation to effect overdrive of said driven shaft through the planetary gear construction, and means for disconnecting said torque converter from power transmission relationship with respect to said sun gear.

2,283,760
DUPLEX SIGNALING SYSTEM
George A. Pullis, Hoboken, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 12, 1940, Serial No. 369,691
3 Claims. (Cl. 179—3)



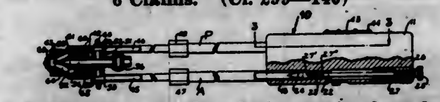
1. In a duplex composite signaling system comprising a plurality of line conductors subject to interfering longitudinal alternating current flowing therein, a multiwound relay having one winding in series with one line conductor, a second winding in series with an artificial line, and a third winding in series with a second line conductor, a noise-killing inductance common to both said first and second windings and in series therewith, characterized by means comprising a series resonant circuit in shunt to said inductance for preventing said interfering current from falsely operating said relay, said shunt circuit being resonant to the frequency of said interfering current.

2,283,761
SEAT ADJUSTER
Edward Richter, Freeport, Ill., assignor of one-fourth to Earl L. Schofield, Freeport, Ill.
Application February 6, 1939, Serial No. 254,919
7 Claims. (Cl. 155—14)



2. An adjustable seat comprising, in combination, with a movable seat and a support therefor, interfitting piston and cylinder elements one of which is mounted on the support and the other of which has connection with the seat whereby relative movement between the piston and cylinder elements causes an adjusting movement of the seat, a source of pressure fluid supply, and a manually operable disk valve for controlling communication between the source of pressure fluid supply and said cylinder to admit fluid selectively to either end of the cylinder to adjust the seat in either direction as desired, the manually operable disk valve comprising a ported disk, a ported stator, the ports of which communicate with opposite ends of the cylinder and are adapted to communicate with inlet and exhaust ports provided in the disk, a casing on the stator enclosing said disk, and spring means tending normally to hold the disk seated under yielding pressure, said disk being unseatable by fluid pressure from within the cylinder in response to manual adjustment of the seat independently of the fluid pressure source.

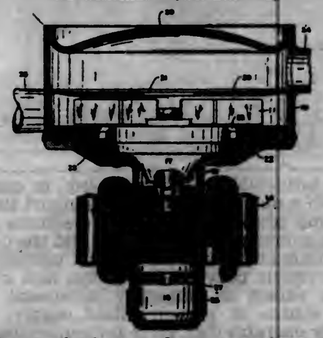
2,283,762
PAINT SPRAY NOZZLE
William C. Robinson, Bell, Calif.
Application July 11, 1941, Serial No. 401,927
6 Claims. (Cl. 299—140)



3. In a spray nozzle, a body, a pair of conduits on said body, a tube slidably mounted on each conduit, each tube communicating with its associated conduit, said tubes being parallel and adjacent to each other, said tubes having aligned apertures, a nozzle member including a body having opposed bosses arranged in said apertures, each of said pipes having thereon a U-shaped spring clip member having its ends engaging said ears to urge the tubes towards the nozzle bosses, said nozzle member having a bore therethrough, one of said bosses having a hole therethrough affording communication between the associated one of the tubes and the nozzle member bore, said nozzle including a discharge end, the nozzle member bore communicating with the discharge

end forwardly of the bore, a clean-out valve on the nozzle member, said clean-out valve being located in the rearward section of the bore and normally closing passage rearwardly through the bore, a cap on said nozzle, a discharge member on the cap, said cap being spaced from the nozzle member, and conduit means extending through said nozzle member body and the other boss and affording communication between the interior of the cap and the other one of said tubes.

2,283,763
REFRIGERATION
Ernest C. Roglin, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio
Application January 17, 1941, Serial No. 374,897
14 Claims. (Cl. 148—4)



1. The method of making a unitary shell for separating the rotor and stator of a dynamo electric machine which comprises treating the end sections of a shell in which the iron is in a ferritic state to change the iron in the end sections into an austenitic state.

2,283,764
ESTERLIKE CONDENSATION PRODUCTS AND A PROCESS OF PREPARING THEM
Johann Rosenbach, Wiesbaden, and Gerhard Balle, Frankfort-on-the-Main, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application May 3, 1939, Serial No. 271,512. In Germany May 6, 1938
11 Claims. (Cl. 260—484)

9. The process of manufacturing ester-like condensation products which comprises reacting a compound having the general formula

$$R.X.CH_2Hal$$

wherein R stands for a radical selected from the group consisting of aliphatic, aliphatic-cycloaliphatic and araliphatic radicals, X stands for a member of the group consisting of oxygen and sulfur and Hal stands for halogen, and wherein the radical R contains at least 12 carbon atoms, with a carboxylic acid metal salt.

2,283,765
BRUSH
Samuel Rubin, New York, N. Y.
Application April 17, 1939, Serial No. 268,243
1 Claim. (Cl. 15—123)

In a fountain brush comprising a hollow one-piece transparent handle made of plastic material, said handle being of cylindrical form and having open and closed ends, said closed end being flat and forming a base, said open end having an annular shoulder terminating in a screw thread adjacent said open end, a one-piece cap made of plastic material and having a circular depression adapted to receive said shoulder, a screw thread within the walls of said depression to co-act with said screw thread on said handle, for connecting said handle and said cap and forming a storage chamber therebetween, a refill powder capsule within said storage chamber, said capsule having an integral base and being of a size sufficient to cover the entire surface of said storage chamber walls including the base portion thereof in tightly fitting relation, said plastic shoulder being adapted to forcibly engage said depressed portion of said plastic cap in tight



sealing relation for preventing leakage from said storage chamber, a plurality of concentric openings in the top of said cap and extending part way into said cap to respectively receive tufts of hair, and through holes at the central portion of said cap and communicating with said storage chamber, said through centrally positioned holes being clear of said bristles, whereby the contents within said storage chamber can freely enter a clear chamber formed by said concentrically disposed bristles and be dispensed while the remainder content remains visible through said handle said fountain brush being designed to contain powder solely within said tightly fitting refill capsule and thereby maintain said storage chamber out of contact with said powder and in clean operative condition.

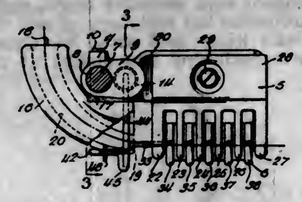
2,283,766
TACK
Arthur Sbicca, Philadelphia, Pa.
Application February 3, 1940, Serial No. 317,053
2 Claims. (Cl. 85—16)



1. A fastening element having the characteristics of a tack comprising a short shank and a thin disk-like head, and a single rigid portion extending downwardly and flaring outwardly from a point directly adjacent said shank on the under side of said head a predetermined distance to form a circular base adapted to rest upon an article into which the device is driven.

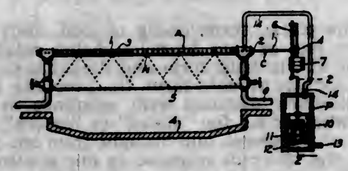
2,283,767
YARN TENSION DEVICE
August K. Schoenenberg, Grantwood, N. J., assignor to Robert Reiner, Incorporated, Weehawken, N. J., a corporation of New Jersey
Application March 19, 1941, Serial No. 384,077
4 Claims. (Cl. 242—154)

1. A yarn tension device, comprising, in combination, immovable gripping elements, an elongated pivot bar, a supporting body mounted upon said pivot bar and rotatable therewith, and swingable gripping elements carried by said supporting body and cooperating with said immovable gripping elements to form a braking passage for the yarn, said supporting body and said swingable elements constituting a pivoted member having a center of gravity normally situated between the pivot bar and the immovable gripping elements, so that it tends to swing said swingable gripping elements toward said immovable grip-



ping elements and to exert pressure upon the yarn; said pivot bar having an extension portion extending on both sides thereof and constituting supports for weights varying the position of said center of gravity.

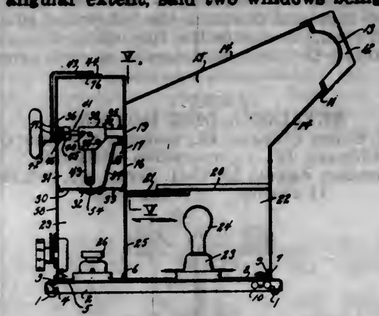
2,283,768
SHOWER PIPE CLEANING DEVICE
Fred Schueler, Andover, Mass., assignor to John W. Bolton & Sons, Inc., Lawrence, Mass., a corporation of Massachusetts
Application April 29, 1938, Serial No. 205,126
5 Claims. (Cl. 299—59)



1. The combination in a shower adapted for use in a paper mill of a pipe provided with a plurality of openings spaced longitudinally, each opening forming a nozzle with a central discharge orifice of substantial size, whereby to prevent clogging, and two angularly disposed grooves, one on the outside and one on the inside, the inside groove being angularly disposed to the axis of the pipe and sloping from each end out to the central orifice; with a cleaner including a rod axially disposed in the pipe and a plurality of cleaning members each of such character as to permit water to flow past it, each carried by the rod proximate one of said inside grooves; and power means outside the pipe to cause each cleaning member to move at intervals through said inside groove and past its central orifice.

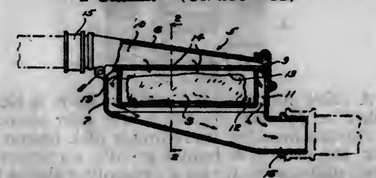
2,283,769
EYE REACTION TESTING
Lawrence G. Schwanzel, Toledo, Ohio
Application January 27, 1941, Serial No. 376,017
10 Claims. (Cl. 88—20)

1. Eye reaction testing equipment comprising a chamber provided with an observation point adapted to be closed by one looking into the chamber to receive a test, an illumination-point-providing window in the chamber for directing eye response of the one at the observation point receiving the test, an additional illumination window in said same chamber laterally adjacent the point window and having therefor a light source, and light ray transmission means from the source to the additional window embodying between the source and the window a swingable internal reflection light ray transmission member of angular extent, said two windows being com-



mon for observation by the one at the observation point.

2,283,770
SOAP AND WATER MIXER
Lucien Siano, Ballston Spa, N. Y.
Application May 24, 1941, Serial No. 395,099
1 Claim. (Cl. 299—83)



A soap and water mixer of the character described comprising a pair of hinged casing sections, one of said sections being substantially wedge-shaped in longitudinal section, a water inlet coupling arranged in the large end of said section, one face of said last-named section adapted to be engaged by the other of said sections and provided with a plurality of openings, said second section being of substantially rectangular shape and corresponding in size to the perforated base of the first section, said second section provided with an inner spaced soap chamber open at its top and provided with a plurality of water passage openings in its opposite ends, the said second section terminating in an enlarged tapered water outlet, hinge means connecting the casing sections together, and latch means for retaining the sections in fixed relation to each other.

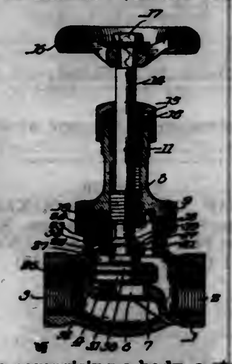
2,283,771
METHOD OF KNITTING ON STRAIGHT-BAR KNITTING MACHINES
Harry Wilfred Start, Carlton, and Ernest Start, Wilford, England, assignors to George Blackburn and Sons Limited, Nottingham, England
Application June 19, 1941, Serial No. 398,819
In Great Britain April 24, 1940
2 Claims. (Cl. 66—82)



1. In knitting heel tabs to a stocking blank on a straight-bar knitting machine, the method of producing neat selvedge edges to the heel tabs

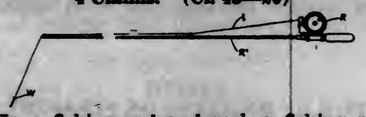
by making the narrowings therein when the thread guides are disposed at the inner sides of the heel tabs and adapting the innermost sinker of each group to ensure the formation of a normal loop on the innermost needle of each group.

2,283,772
RETAINING DISK HOLDER
Carl R. Stone, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application August 25, 1941, Serial No. 408,186
11 Claims. (Cl. 251—44)



1. A valve comprising a body, a stem, a closure member removably engaging the said stem, the said closure member including a disk holder and a disk, the said disk holder having an upper apertured plate portion and a depending sleeve having apertures therearound, one of the latter apertures serving as the means for inserting the said disk within the said disk holder, an inwardly-extending portion formed at the lower edge of said depending sleeve, said disk being normally restrained against substantial axial movement by its fitted interposition between said stem and said inwardly extending portion at the lower edge.

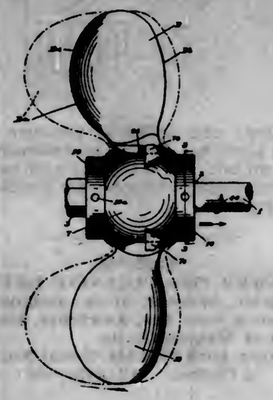
2,283,773
FISHING ROD AND REEL
William Teitsma, Paterson, N. J., assignor of one-third to Henry De Haan, and one-third to Harry Dykstra, both of Paterson, N. J.
Application September 15, 1941, Serial No. 410,823
4 Claims. (Cl. 43—20)



1. In a fishing rod and reel, a fishing rod, a reel mounted thereon, a fishing line on said reel guided by said rod, means for reeling the reel to wind or rewind the line, means for permitting unwinding of said line from the end of said reel without spinning or reeling the wheel, and a device for eliminating the twist in the line produced by the unwinding of the same from the reel end, said device comprising a water wheel attached to the cast part of the line, said water wheel being rotative in the water in a direction opposite to the said produced twist in the line.

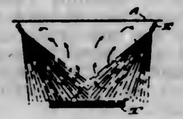
2,283,774
FEATHERING-BLADE PROPELLER
Milton D. Thompson, Fairhaven, Mass.
Application August 13, 1941, Serial No. 406,595
4 Claims. (Cl. 170—162)

1. A feathering-blade propeller comprising a propeller shaft hub member having a longitudinal bore therethrough, a split casing enclosing and rotatable on said shaft hub, an axially rotatable unbalanced, two-working-face propeller blade mounted on the side of said casing, a pintle on the hub of said propeller blade, and a two-branch groove on the periphery of said shaft hub member with which said pintle has engagement, said groove beginning and ending at points in



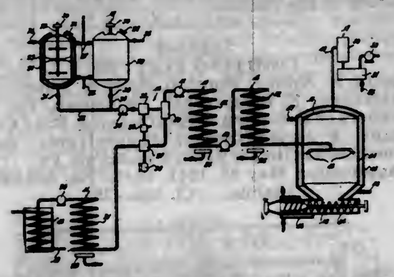
the same plane, transversely of said shaft hub member, one of said branches being relatively long and of true helix form and the other shorter and of slightly arcuate form, the propeller blade being similarly disposed with reference to said casing whether set for "ahead" or "astern" propulsion of the vessel, and brought from one position to the other in response to one continuous rotary movement of said propeller shaft.

2,283,775
FIRE EXTINGUISHING METHOD AND APPARATUS
Norman J. Thompson, Wellesley, Mass., assignor to Factory Mutual Research Corporation, Boston, Mass., a corporation of Massachusetts
Application October 17, 1940, Serial No. 361,554
6 Claims. (Cl. 169—2)



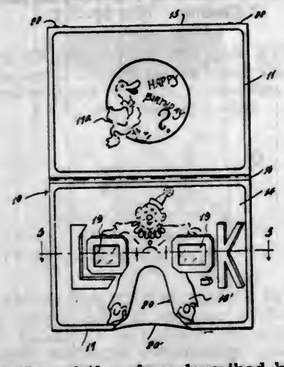
1. The method of extinguishing a fire in a hazard in a part of a room which comprises separating said part of the room from the rest of the room with a wall of fire-extinguishing particles by propelling a plurality of sprays of said particles downwardly along the periphery of said part of the room so as to tend to confine the products of combustion to said part, the sprays being inclined toward said part but directed below the center of the upper surface of said hazard so as to tend to impel the products of combustion upwardly, and directing the products of combustion which rise through the space to said sprays, whereby the sprays tend to isolate the fire in said part of the room and to return the products of combustion to the fire and to shield the fire from the surrounding air in the rest of the room.

2,283,776
PROCESS OF MAKING SOAP
Benjamin H. Thurman, Bronxville, N. Y., assignor to Refining, Inc., Reno, Nev., a corporation of Nevada
Application March 5, 1938. Serial No. 194,224
3 Claims. (Cl. 260—418)



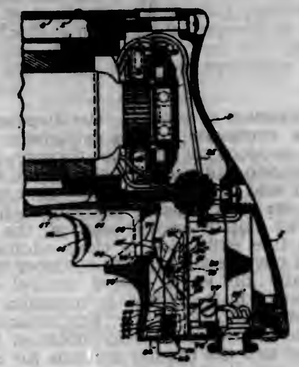
1. The process of making soap and recovering concentrated glycerine directly therefrom, which comprises, mixing a stream of saponifiable material consisting essentially of glycerides of fatty acids with a stream of alkali solution containing substantially in excess of 50% of alkali, preheating said stream of saponifiable material to a temperature between approximately 400° F. and 620° F. before admixture with said alkali solution, preheating said alkali solution to a temperature between approximately 200° F. and 500° F. before admixing the same with said saponifiable material, adding sufficient additional heat to a flowing stream of said mixture to substantially completely react said alkali and said saponifiable material to form soap and liberate glycerine, thereafter discharging the resulting mixture containing soap and glycerine into a vapor separating zone while at a temperature above the melting point of said soap when anhydrous, withdrawing and condensing glycerine vapors from said zone at a rate sufficient to maintain a vacuum in said zone, and continuously removing soap from said zone without breaking said vacuum.

2,283,777
GREETING CARD
Fred W. Wendling, Cleveland, Ohio
Application May 22, 1941, Serial No. 394,708
2 Claims. (Cl. 88—29)



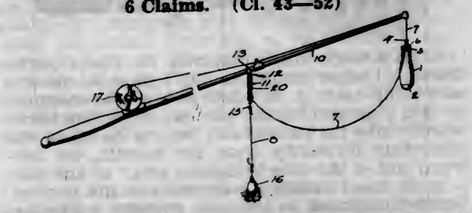
1. A folder of the class described having first, second, third and fourth sections in foldable relation on parallel axes, characters delineated on the exterior of one of the sections, a development of one of the characters delineated on the other face of the same section, a development of another character first mentioned on the fourth section, said fourth section having stereoscopic windows thereon, and stereoscopic picture means for consideration of the said characters in the development of a theme, said means being secured at the fold of the first and second sections for manipulation into parallelism with the fourth section to be viewed through the stereoscopic windows.

2,283,778
ELECTRIC TOOL
Glenn C. Wilhide, Towson, Md., assignor to The Black and Decker Manufacturing Company, a corporation of Maryland
Original application July 19, 1938, Serial No. 219,976. Divided and this application February 14, 1940, Serial No. 318,810
10 Claims. (Cl. 200—157)



1. In an electric tool having a casing and a handle with a switch chamber therein, a way in the casing extending forwardly from said chamber, a trigger block sliding in said way, the chamber having an opening and a support adapted to be seated in said opening, a switch and a switch actuating member separate from said trigger and mounted on said support and guiding means for bringing said member into the path of, and into operative contact with said trigger block as the support is moved to its seated position.

2,283,779
WEIGHTED CASTING FLOAT
John Gano Winter, Washington, D. C.
Application January 29, 1941, Serial No. 376,548
6 Claims. (Cl. 43—52)



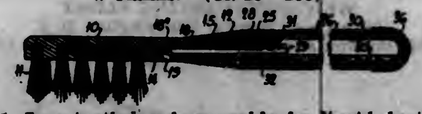
1. The combination of a fishing rod, reel, hook and line, a casting float comprising a streamlined body having a weighted nose, means thereon to connect the float at one end to the fishing line, and a clip on the rod between its ends for holding the line to the rod to prevent fouling of the line as the float is cast.

2,283,780
DISPENSER OF SOLUTION AND APPLICATION THEREOF
Edward T. Ahern, New Haven, Conn.
Application December 30, 1940, Serial No. 372,387
4 Claims. (Cl. 4—255)



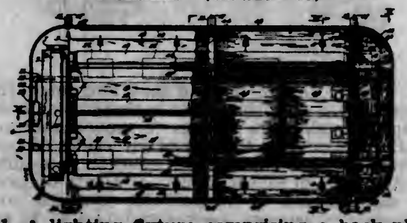
1. A dispenser of solution, the dispenser comprising a container having a tubular outlet; multiple sections of flexible tubing; separate separable connecting means with which said sections and said tubular outlet are connectible to establish an open passage therethrough; a circular-spray nozzle on the end of the section having a free extremity; a clasp slidingly carried upon the nozzled section; a rubber cup having radially slit edges and a central opening therethrough by which it is mounted on the section adjacent said nozzle; and means adapted to force solution from said container through said outlet and the tubular sections for dispensing from said nozzle; whereby the nozzle and rubber cup end of the dispenser may be flushed into and down the irregular course of a toilet trap by means of the water filled cup, the slit edges of the cup aiding its collapse in extricating from the trap.

2,283,781
TOOTHBRUSH ASSEMBLY FOR LIQUID DENTIFRICES
David Aiken, Winnsboro, S. C., assignor of one-third to J. W. Douglass, Jr., Greenville, S. C.
Application September 20, 1940, Serial No. 357,594
2 Claims. (Cl. 15—138)



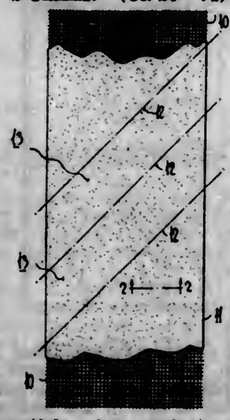
1. In a tooth brush assembly for liquid dentifrices, a hollow handle having a plug in one end and being open at its other end, a tube mounted in said plug and having one end extending backwardly into the handle and having its other end extending forwardly from the handle, the forward end of the tube being cut away at one side, a brush head having a base and a shank portion, bristles mounted in the base portion, a longitudinal bore in the shank portion of the head extending from the shank end to a point adjacent the bristles, a transverse bore in an intermediate portion of the head communicating with the longitudinal bore, to register with the cut-away portion on the end of the tube when the brush head is rotated to dispensing position, a resilient rubber tubular bushing mounted in the longitudinal bore for frictionally engaging said tube and holding the brush head in adjusted position relative to the tube and handle, and a dentifrice container insertable into said hollow handle and having a perforable stopper therein adapted to be perforated by said tube as the container is inserted in the handle.

2,283,782
LIGHTING FIXTURE
Edward E. Ashley, Noroton Heights, Conn., and Alexander E. Blumenthal, Pittsburgh, Pa., assignors of one-third to Kaufmann & Baer Company, a corporation of Pennsylvania, doing business as Gimbel Bros., Pittsburgh, Pa.
Application May 22, 1941, Serial No. 394,602
5 Claims. (Cl. 240—78)



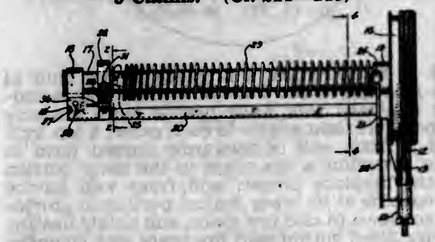
1. A lighting fixture comprising a back plate adapted to be fastened to a ceiling, an upright end plate secured thereto transversely adjacent each end and projecting downwardly therefrom, electric light sockets mounted on the inner surfaces of the end plates for receiving a plurality of parallel lighting tubes disposed at right angles to the end plates, a pair of light sockets mounted in fixed position between each end plate and the adjacent end of the back plate for receiving a lighting tube disposed parallel to the end plate, transversely concave reflectors extending longitudinally of said parallel tubes from one end plate to the other, a transversely concave reflector extending longitudinally of each end tube and lying against the adjacent end plate, and a glass bowl for covering said tubes and back plate.

2,283,783
AUTOMOBILE BODY TRIMMING DEVICE
Glen G. Barr, Union City, Ind., assignor to Backstay Welt Company, Union City, Ind., a corporation of Indiana
Application November 3, 1937, Serial No. 172,599
2 Claims. (Cl. 20—74)



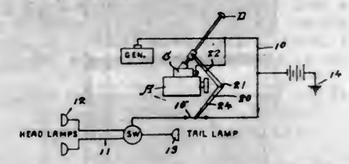
2. As an article of manufacture, a narrow, elongated, thin composite strip adapted to be used as a reinforcing and form-maintaining ply of a finishing strip or the like, said composite strip comprising a base formed from a multiplicity of pliable, non-resilient wire filaments woven together and a relatively thin single film of rubber bearing material covering the surfaces of the filaments and filling the interstices between them, whereby said material substantially maintains the filaments in their original relative positions while permitting, on bending the composite strip flatwise laterally, relative rearrangement of the filaments without materially increasing the thickness of the composite strip at the zone of bending, said film being thin enough to render the composite strip not appreciably thicker than the woven wire base.

2,283,784
TAG-LINE REEL
Roy O. Billings, Milwaukee, Wis.
Application January 21, 1941, Serial No. 375,211
5 Claims. (Cl. 214—146)



1. A tagline reel assembly, comprising an elongated rigid supporting member, bearings at opposite ends of said supporting member, a revoluble shaft having opposite end portions journalled in said bearings, a tension spring coiled about an intermediate portion of the shaft, means securing one end of said spring to one of said bearings, means securing the other end of said spring to a remote portion of the shaft, a tagline reel fast on the shaft adjacent said bearing, a hanger rigidly fixed to said bearing and to said supporting member, tagline guide members mounted on said hanger, a friction brake mounted on another portion of the shaft, and means adjustably anchoring portions of said brake directly to said rigid supporting member.

2,283,785
WIRING SYSTEM FOR MOTOR VEHICLES
Marion L. Beling, Hollywood, Calif.
Application June 26, 1939, Serial No. 281,296
3 Claims. (Cl. 171—97)



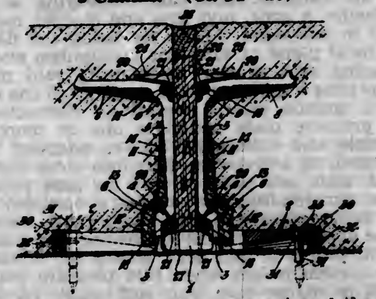
3. In combination with an electric lighting system of a motor vehicle and an electric starter having a manually actuated operating means, self opening contacts electrically connected in said electric lighting system for rendering the system inoperative, a spring influenced plunger for sustaining the contacts closed to render the system operative, and a pivoted lever connected to said first-mentioned means and engaging said plunger to position the latter to free the contacts and thereby render the lighting system inoperative during the time of operation of said starter.

2,283,786
JACKET CROWN
Milton B. Brenner, Chicago, Ill.
Application January 28, 1942, Serial No. 428,476
5 Claims. (Cl. 32—12)



1. A jacket crown for a tooth contacting or occluding on the lingual face capable of being molded with a commercial plastic comprising a tooth form having a recess at the top thereof adapted to receive the prepared portion of an original tooth, a metal plate disposed at the area of occlusion of said tooth form, with tangs extending therefrom into the substance of said tooth form.

2,283,787
PAVEMENT JOINT
Alan E. Brickman, Monongahela, Pa., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application November 19, 1940, Serial No. 366,307
5 Claims. (Cl. 94—18)

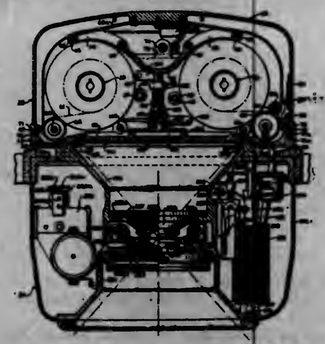


1. A joint for concrete pavement and the like, comprising a unitary base member adapted to underlie the joint and extend in opposite directions for a substantial distance beneath each slab, a pair of integral upright members carried by said base member so as to extend upwardly in substantial parallelism between the slab sections respectively adjacent each of the end faces of the latter, the upper extremity of each upright member being turned to penetrate into its respectively proximate slab section in a substantially horizontal direction, a compressible element at each of the oppositely extended ends of said base member, a compressible element between said upright members, and a compressible element between each of said upright members and the respectively proximate slab section.

2,283,788
BOMBING CAMERA
Ambrosius Briechle, Brooklyn, Roy T. Hurley, Dobbs Ferry, N. Y., and George E. Merritt, Lusby, Md., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 22, 1938, Serial No. 197,402
25 Claims. (Cl. 88—16)

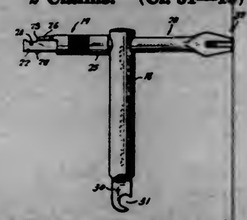
1. In a camera apparatus of the class de-

scribed, a source of power, interval meter means, switch means for connecting said interval meter means to the source of power, a solenoid switch actuated by said meter means, a solenoid controlled by said switch, a shutter mechanism, a motor adapted to energize said shutter mechanism, control means associated with said shutter mechanism for de-energizing said motor when said mechanism becomes energized, means controlled by said solenoid for releasing said shutter mechanism, said control means being adapted to energize said motor when said shutter mechanism is released, and means driven by said meter means for disconnecting said meter means from the souree of power.



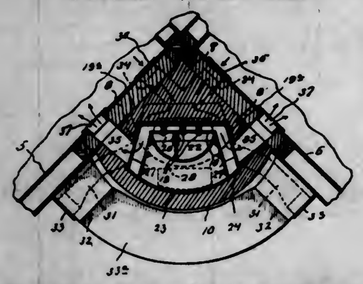
7. In camera apparatus embodying a film magazine, a cone, and lens and shutter mechanism in said cone, means for fixing the film in the focal plane of said lens mechanism and for releasing said shutter mechanism, said means comprising a pressure plate mounted in the magazine, suction means operatively connected to the pressure plate including one or more expansible and collapsible bellows adapted when actuated, to attract the film into close engagement with said plate, a seat for said pressure plate surrounding the exposure opening, said seat being substantially coincident with the focal plane of the lens, means for driving said plate in the direction of said seat, means for actuating said suction means when said pressure plate is about to engage said seat, and means for actuating said suction means a second time and for simultaneously releasing said shutter mechanism for an exposure.

2,283,789
DISTRIBUTOR ADJUSTING TOOL
John S. Buckwalter, Lancaster, Pa.
Application February 27, 1939, Serial No. 258,620
2 Claims. (Cl. 81—15)



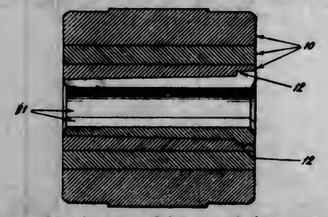
1. A distributor adjusting tool of the character described comprising a member having a flat face and formed with a T shaped recess opening into the flat face, the cross of the T lying in the flat face, and a follower movable on said member and carrying a tongue adapted to extend over said recess to close the same, said tongue having a face in engagement with the said flat face of the member, said engaging faces preventing rotation of the follower with respect to the said member.

2,283,790
FIREPLACE CONSTRUCTION
Darcy L. Cage, Los Angeles, Calif.
Application September 30, 1940, Serial No. 359,147
2 Claims. (Cl. 126—121)



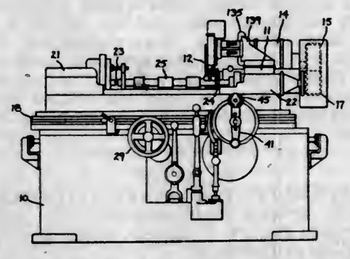
2. In combination, a fireplace proper built at the juncture of two walls of a room and including rear and side walls having outer surfaces disposed at right angles to each other, a top wall, and a front wall of forwardly curved form in plan, providing a fire space in the lower portion of the fireplace proper, said front wall having an opening at its lower central portion to provide an entrance to said fire space, and an air heating device fitted within said fire space and comprising a hollow horizontal upper front portion fitting within the upper part of said fire space behind and curved forwardly to contact the upper portion of said front wall of the fireplace proper, and a lower portion composed of a hollow rear member and hollow side members closed at the bottom and communicating with each other, said hollow upper front portion and the side members of the lower portion having a front wall of inverted U-shape and curved forwardly to conform to the curvature of the front wall of the fireplace proper.

2,283,791
EXTRUSION MACHINE CYLINDER OR CONTAINER
Percy L. Clark, Fairfield, Conn., assignor to Bridgeport Brass Company, Bridgeport, Conn., a corporation of Connecticut
Application July 20, 1940, Serial No. 346,474
3 Claims. (Cl. 207—15)



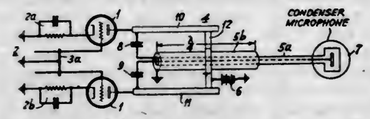
1. An extrusion machine container comprising, a tubular body formed of a plurality of concentric cylinders and a liner composed of material having high wear and compressive stress resistance under heat, said liner being formed from several longitudinally arranged segmental sections each tapering externally in its entire length and shrunk within the inner of said concentric cylinders, the said inner of said concentric cylinders having an inner surface complemental to the external surface shape of said tapering segments whereby substantially all circumferential tensile stresses in said liner during extrusion are eleminated, the said stress being taken up by said tubular body, and the tapering form of said liner and said inner of said concentric cylinders tending during extrusion to increase the tightening pressure between said segments and said inner cylinder and between the segments themselves, and the inner surface of said inner cylinder and the outer surface of said segments having engaging shoulders to prevent creeping of said segments with respect to each other and to maintain them in proper position in said body.

2,283,792
GRINDING AND LAPPING MACHINE
Raymond A. Cole, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application August 24, 1940, Serial No. 354,124
8 Claims. (Cl. 51—3)



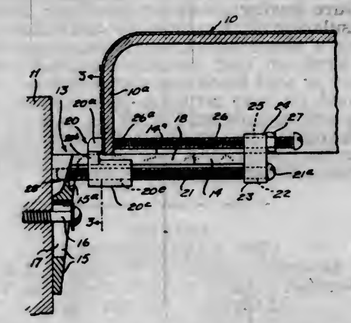
1. A grinding and lapping machine comprising means for rotating a cylindrical work piece, a grinding wheel, a wheel slide therefor, hydraulically operated means for moving the wheel toward and from the work, a lapping stick, means for oscillating the lapping stick along an element of the work, a hydraulically operated mechanism for moving the lapping stick into contact with the rotating work, means including a control valve to control the movement of the grinding wheel toward and from the work, and means including a second independent control valve which is automatically actuated when the grinding wheel moves to an inoperative position to initiate an approaching movement of the lapping stick.

2,283,793
HIGH FREQUENCY MODULATED RADIO SIGNAL TRANSMITTER
Edward Cecil Cork, Ealing, London, and Joseph Lade Pawsey, Ickenham, England, assignors to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain
Application February 9, 1940, Serial No. 318,044
In Great Britain June 7, 1939
10 Claims. (Cl. 179—171.5)



1. In a frequency modulation system an oscillation generator including a pair of electron discharge devices each having input and output electrodes, oscillatory circuits connected with said input and output electrodes including lines symmetrically coupled with said output electrodes and balanced with respect to ground, an unsymmetrical modulating reactance, and means for coupling said unsymmetrical modulating reactance to at least one of said lines and for coupling to the other of said lines a reactance to restore the balance of said lines with respect to ground unbalanced by the coupling thereto of said unsymmetrical modulating device.

2,283,794
BRACKET CONSTRUCTION FOR PLUMBING FIXTURES
Michael A. Crozier, New York, N. Y., assignor to Crozier Manufacturing Co., Mount Vernon, N. Y., a co-partnership composed of Joseph A. Crozier and Michael A. Crozier
Application February 24, 1941, Serial No. 380,246
15 Claims. (Cl. 4—170)



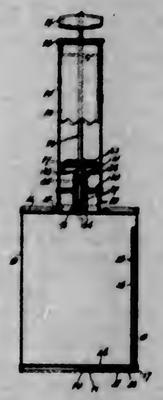
1. A bracket construction for a plumbing fixture like a lavatory that has a depending part like an apron or flange, comprising a supporting bracket having means mounting it to sustain a vertical load and having a horizontal supporting portion over which said depending part is received with the latter extending transversely thereof, whereby said plumbing fixtures, in course of installation, may be adjusted or shifted in directions lengthwise and crosswise of said horizontal supporting portion, said horizontal portion having means forming a guideway extending lengthwise thereof, a screw extending lengthwise of said horizontal portion and below the upper face thereof, said bracket having means for supporting said screw below said upper face, and securing means carried by said bracket and operative to secure whatever portion of said depending part is presented to it as a result of shifting of said plumbing fixture; said securing means comprising a member having a part projecting above said upper face, a sleeve-like part extending below said face and having said screw extending therethrough and a part coacting with said guideway, whereby said member is shiftable lengthwise of said horizontal portion to bring its first-mentioned part into engagement with one side of said depending fixture part in the position to which the latter is shifted lengthwise of said horizontal portion, and means coacting with said member and shiftable relative to said horizontal portion of said bracket to bring it into engagement with the other side of said depending part in the aforesaid position of the latter, thereby to hold said depending part against movement out of the position into which it was placed by shifting as aforesaid.

2,283,795
ELECTRIC SWITCH CONSTRUCTIONS
Magnus G. Dahl, West Hartford, Conn., assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn., a corporation of Connecticut
Application April 8, 1938, Serial No. 200,907
5 Claims. (Cl. 200—168)



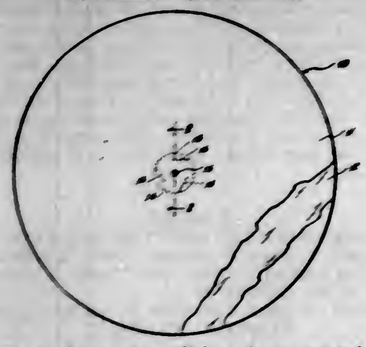
1. In an electric switch, a movable supporting structure having a tongue extending therefrom, an insulating block carried by said structure and having a slot receiving said tongue to position said block on said structure, contact members carried by said block and spring-pressed devices mounted on said structure and engaging with said block to hold said block on said structure, said spring pressed devices being manipulable into a releasing position free of said block to permit removal thereof from said tongue.

2,283,796
FIRE EXTINGUISHER
Lawrence J. Darma, Woodbury, N. J.
Application January 25, 1939, Serial No. 252,709
12 Claims. (Cl. 299—96)



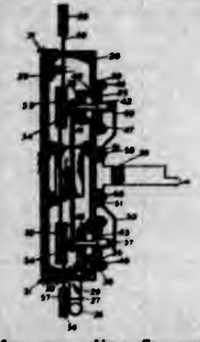
11. A fire extinguisher comprising a small portable normally closed receptacle having a sealed outlet at one end, an air pump removably mounted on the opposite end of said receptacle, means interposed between the pump and receptacle and arranged to be actuated by the operating mechanism of said pump while said pump and receptacle are in assembled relation to puncture the receptacle and thereby provide a communication between the pump and the receptacle, and a valve associated with the puncturing means and also interposed between the pump and receptacle.

2,283,797
PHONOGRAPH DISK
Raymond S. Dash, Stamford, Conn., assignor to The Audio Manufacturing Corp., Glastonbury, Conn., a corporation of Connecticut
Application June 24, 1941, Serial No. 399,501
16 Claims. (Cl. 274—42)



1. In a phonograph disk, a base comprising a member of fracturable material having a relatively large centrally located opening therethrough, a perforated insert of punchable material in said opening, and a film of sound groove receiving material over each side of said member and said insert sealing the latter in place in said opening.

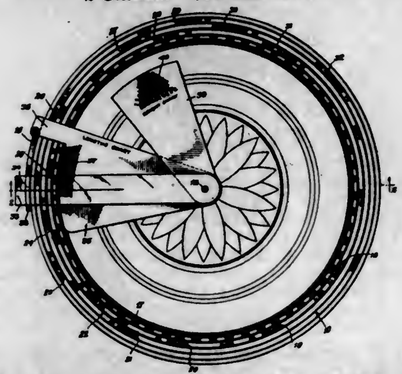
2,283,798
APPARATUS FOR ANNEALING WIRE
James K. Delano, Poughkeepsie, N. Y., assignor to Delano Patents Company, Dover, Del., a corporation of Delaware
Application March 10, 1939, Serial No. 261,132
1 Claim. (Cl. 266—5)



Apparatus for annealing fine wire subject to stretching comprising a driving pulley and a driven pulley, said pulleys being mounted in spaced relation in a housing and electrically insulated therefrom for rotation with a driving shaft and a driven shaft, respectively, said pulleys being adapted to carry and continuously advance a continuous strand of wire which during operation of the apparatus is continuously supplied to the driven pulley and continuously withdrawn from the driving pulley and makes at least one complete pass around each pulley; means to apply electrical heating current to the wire between the pulleys; and mechanical means connecting the driving shaft with the driven shaft and electrically insulated from said shafts to rotate the driven shaft from the driving shaft and at the same speed as the driving shaft;

whereby the increments of wire which during operation of the apparatus are advanced in a heated condition from the driven pulley to the driving pulley are substantially relieved of tension.

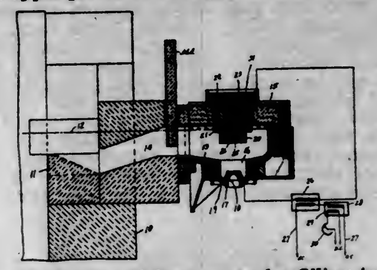
2,283,799
HANDICAPPING DEVICE
Emile W. Favalora, New York, N. Y.
Application April 5, 1940, Serial No. 328,015
2 Claims. (Cl. 235—83)



1. A handicapping device for judging and handicapping horses on the basis of their past performance comprising a member having a plurality of racing charts thereon, each representing a race of a different length and each having a plurality of rating values indicated thereon in sequential order, the rating values of the different charts being of similar value; a time chart positioned adjacent the racing charts and having time markings arranged thereon in chronological order, the time markings adjacent each racing chart representing the average times in which a race of that length is run; an indicating device shiftable along the racing and time charts and having an indicating marking thereon whereby the rating value of a horse running a race of predetermined length at a predetermined time may be calculated; a lengths compensating device positioned adjacent and shiftable relative to the racing and time charts and having a lengths compensating chart thereon provided with markings representing the average time required for horses of different rating values to run a predetermined number of lengths; the markings for a horse of relatively lower rating value being spaced a greater distance apart than the markings of a horse of a higher rating value; and a weight compensating device adjacent and shiftable relative to the other charts and provided with a weight compensating chart having a plurality of markings representing the average number of lengths lost by a horse in races of different predetermined lengths upon increasing the relative amount of weight carried by the horse, the said markings in the weight compensating chart being spaced a greater distance apart in races of greater length and where the relative amount of weight carried by the horse is greater.

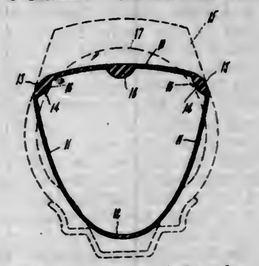
2,283,800
ELECTRODE ARRANGEMENT FOR GLASS FURNACES OR THE LIKE
John Ferguson, Cleveland, Ohio
Application May 14, 1941, Serial No. 393,429
7 Claims. (Cl. 13—6)

1. An electrode construction for glass furnaces and the like including an electrically conductive shell closed at the bottom and open to atmosphere at the top, means for supporting said shell with the closed lower portion thereof in contact with molten material in the furnace and the open upper portion in a region of lower tempera-



ture outside of said furnace, and a filling in said shell of a metal having a melting point below the normal operating temperature of the furnace and adapted to conduct heat from the lower to the upper portion of said shell by convection currents and to dissipate said heat in the region of lower temperature.

2,283,801
SELF-SEALING PNEUMATIC INNER TUBE
Arthur G. Fitz Gerald, Newton, Mass.
Application May 15, 1939, Serial No. 273,702
3 Claims. (Cl. 152—348)

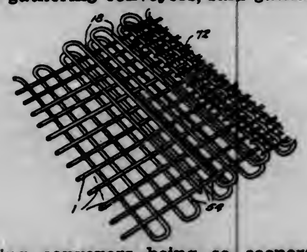


2. A self-sealing inner tube for pneumatic tires having a vulcanized rubber tread and lateral tread-bounding shoulders; the tread, when uninflated, being of greater width on its outer surface between said shoulders than the prescribed width when inflated in a tire, and having a convex transverse curvature which is inherently substantially flatter than the prescribed curvature when so inflated, said shoulders having greater resistance to distortion from their unstressed ring form than the contiguous parts of the tread, and the tread having a substantially thickened median longitudinal zone with inwardly convex transverse curvature as to its inner surface only, adapted to be put under greater compression by the conjoint effects of inflation pressure and reaction between the parts of the tread and the tire casing in which the tread is inflated, than the portions of the tread between said median zone and shoulders.

2,283,802
FABRIC MAKING MACHINE
Clair H. Gingher, Greensboro, N. C.
Application September 20, 1941, Serial No. 411,733
5 Claims. (Cl. 112—2)

2. Apparatus for making textile fabric of that type in which a warp is overlaid and underlaid by separate wefts stitched together between the

warp without involving the warp in the stitching, comprising a gang of sewing needles positioned to determine a sewing station in operative relation to a warp movable past said station, upper and lower gathering conveyors on opposite sides of said warp movable toward said warp and said sewing station, means for continuously laying separate wefts upon said gathering conveyors in serpentine pattern including transverse courses spaced wider than they will be in the fabric, said gathering conveyor having means for holding said wefts in position, condensing conveyors above and beneath said warp and between said gathering conveyors and said sewing station having a portion of each in operative proximity to the respective gathering conveyors, said gathering and



condensing conveyors being so cooperably related as to effect the transfer of the wefts from the gathering conveyors to the condensing conveyors, means for moving said condensing conveyors at a slower speed than said gathering conveyors and at the same speed as said warp, in the direction of movement of said warp, said condensing conveyors having seats for the transverse rows of the wefts, spaced as closely as the weft will be in the fabric, said condensing conveyors having parallel flights substantially contacting the warp on opposite sides thereof to a point at least as far as said sewing station, whereby the transverse courses in said seats are held to said warp and carried therewith to said sewing station, said needles operating between threads of the moving warp to progressively stitch said upper and lower wefts together.

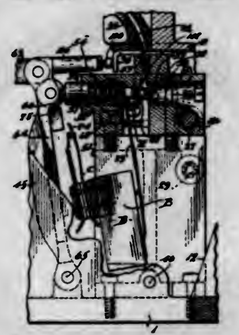
2,283,803
SELF-ATTACHING PATCH FOR WIRE CLOTH OR SCREENS
Sidney R. Gittens, Philadelphia, Pa.
Application June 26, 1941, Serial No. 399,795
9 Claims. (Cl. 156—14)



1. Means for repairing wire cloth, comprising a patch of wire cloth, a number of the ends of the wires at the perimeter thereof terminating in preformed out-turned hooks for interlocking engagement with wires of the cloth to be repaired.

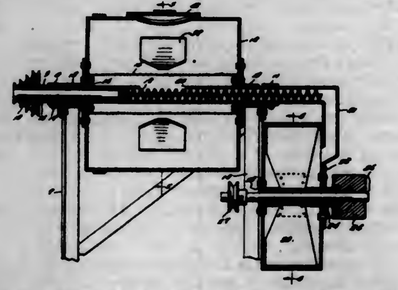
2,283,804
CARD PRINTING MACHINE
Chester Grant, Syracuse, John D. Cool, Baldwinsville, and Kenneth Lang, Syracuse, N. Y., assignors to Gaylord Bros., Inc., Syracuse, N. Y., a corporation of New York
Application April 27, 1940, Serial No. 332,060
7 Claims. (Cl. 101—297)

1. In apparatus of the class described, cooperative printing elements between which a card or the like is adapted to be inserted and removed, card-controlled means engageable by the card on insertion thereof between the printing elements for actuating said printing elements to print upon the inserted card, and means for displacing the card to a position out of engagement with the card-controlled means incident to the printing operation of the printing elements, said last-named means comprising a member normally disposed in the path of insertion movement of the card and shiftable transversely in opposite directions across the



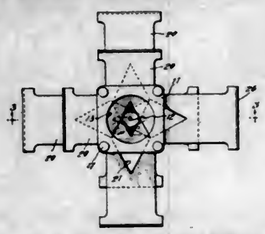
edge of the card, said member having a shoulder normally spaced from the card-controlled means and movable past the card in one direction of shifting movement of the member aforesaid, but having abutting engagement with the edge of the card at a predetermined position of the shiftable movement of the member in the opposite direction, to displace the card by the shoulder on continuation of the said opposite shifting movement of the member to restore the shoulder to its normally spaced position aforesaid relative to the card-controlled means.

2,283,805
DUSTING MACHINE
August W. Gustafson, Hutto, Tex.
Application February 7, 1939, Serial No. 255,127
1 Claim. (Cl. 221—123)



In a machine of the character described, a drum having end walls, said end walls having openings therein, a barrel extending through the drum and the openings of the end walls, said barrel having an opening therein at the inside of the drum, feed means in the barrel, clamp rings circumscribing the barrel at the inner sides of the end walls, a cylindrical screen spacially disposed around the barrel at the inside of the drum and having its end portions turned inwardly and disposed between the end walls and the clamp rings, and securing means for the clamp rings.

2,283,806
CENTERING TOOL
Ismail Hakki, New York, N. Y.
Application April 10, 1941, Serial No. 387,989
6 Claims. (Cl. 33—191)



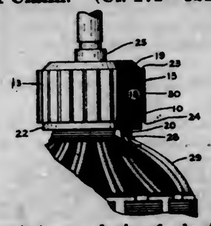
1. A center-finding tool comprising a plurality of spaced frame members, one having center-designating means associated therewith, and the other having an aperture therein to permit the material to be marked to pass therethrough and into substantial abutment with the inner surface of the first frame member, and means for centering the material relative to the center-designating means, comprising a plurality of centering elements slidably mounted in the frame at substantially right angles to each other, each element including a plurality of elongated, slidable plates having apertures therein forming edges for engaging the outer periphery of the material to center the same as the plates in each pair are shoved in opposite directions, and means for guiding the plates in their slidable movement comprising members connecting the frame members and engaging the longitudinal edges of the plates.

2,283,807
ELECTRICAL PLUG AND CONTACTOR THEREFOR
William P. Herman, Providence, R. I.
Application October 11, 1939, Serial No. 298,908
4 Claims. (Cl. 173—332)



1. A female connector plug comprising an integral one-piece body of resilient material having a lower contact portion and an integral upper cord receiving portion having a cable recess, said contact portion having a pair of spaced parallel slots extending downwardly from the cable recess through the connector plug, the contacting area of each slot being of annular cross-section, one wall of each slot extending laterally into the slot at the upper end thereof to form a straight flat restricted slot portion communicating said annular contacting portion and said cable recess, said laterally extending portion being angularly undercut to form an acute-angled shoulder at the upper end of the contacting area of each slot, a female contact blade within each slot having a lower annular contacting portion disposed in the contacting area of its slot and a flat upper end extending through the restricted slot portion into said cable recess, said contacting portion having an acute-angled shoulder at its upper end cooperating with the slot shoulder to lock the blade in the slot against upward pull, and an electrical conductor cable extending into said recess and having cord lead wires in electrical contact with the upper ends of said blades.

2,283,808
COMMUTATOR
Warren A. Humphrey, Homeworth, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application August 21, 1937, Serial No. 160,256
1 Claim. (Cl. 171—321)



In a commutator, a hub of electric insulating material, a plurality of commutator segments having anchor means embedded in said hub, said segments having brush engaging surfaces spaced along the periphery of said hub and extending outwardly therefrom, and each of said anchor means having a portion extending from one axial end of said hub and inwardly of the periphery of said brush engaging surfaces and of the periphery of said hub for connection to an armature winding.

2,283,809
METHOD OF COAGULATING CELLULOSIC SOLUTIONS
Emmette F. Izard, Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 24, 1940, Serial No. 320,701
2 Claims. (Cl. 18—57)

1. The process which comprises extruding a sheet of methyl cellulose-sodium hydroxide solution into a sodium hydroxide-sodium sulfate coagulating bath, allowing the methyl cellulose to coagulate, and removing it from the said bath, said methyl cellulose-sodium hydroxide solution comprising essentially 8% methyl cellulose, 9% sodium hydroxide, and water, said methyl cellulose being of the cold caustic soda soluble type which can only be dissolved by chilling to a temperature below 0° C., said coagulating bath being maintained at about 65° C. during coagulation, and comprising essentially an aqueous 5% solution of sodium hydroxide saturated with sodium sulfate.

2,283,810
CONTROL VALVE
Malcolm Edward Johnson, Wembley, England, assignor to The British Power Boat Company Limited, Hythe, Southampton, England, a British joint-stock company
Application May 6, 1940, Serial No. 333,643
In Great Britain July 28, 1939
5 Claims. (Cl. 121—41)

1. A servomotor control valve, comprising a casing having two ports for communication with two sides of the servomotor and two ports for communication with the exhaust, two pistons slidable coaxially within said casing, said pistons having peripheral surfaces controlling communication between the respective servomotor

and exhaust ports, valve faces upon said pistons, a power port between said valve faces, valve seatings on opposite sides of said power port, and means for shifting either of said pistons so as to disconnect the respective



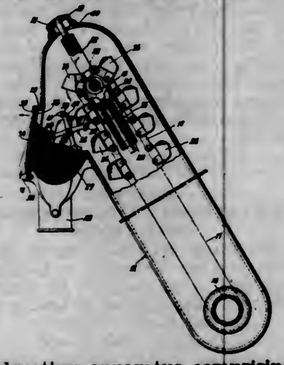
servomotor and exhaust ports and to lift the respective valve face from its seating, said piston-shifting means including abutments engaging with the respective ends of said casing to limit the movements of said pistons in relation to said casing.

2,283,811

ASH RELIEF DOOR

Frederick Kalmbach, Jr., Mount Vernon, N. Y., assignor to General Machine Company, Inc., New York, N. Y., a corporation of New York

Application March 30, 1940, Serial No. 326,845
8 Claims. (Cl. 198—140)



1. Ash elevating apparatus comprising an inclined endless belt mechanism elevating the ash, a housing enclosing said mechanism, means disposed near the upper end of said housing for discharging ash elevated by the mechanism into a receptacle, a normally closed door associated with said housing near said discharge means, and means continuously rotated by said mechanism for opening said door in the event ash accumulates and blocks said discharge means.

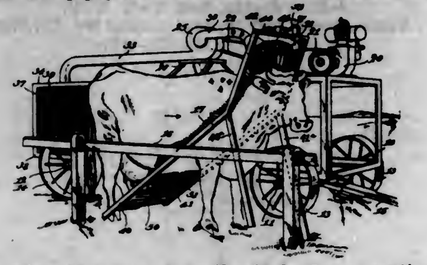
2,283,812

INSECT BRUSHING DEVICE

Martin F. Kohinka, Rio Dell, Calif.

Application November 5, 1941, Serial No. 417,952
5 Claims. (Cl. 119—156)

1. An insect brushing apparatus comprising a U-shaped frame having a curved bight portion at the upper end thereof, a vehicle body, means securing the frame to the side of the body so that said frame will be inclined to the vertical, brushes secured to the inner walls of the legs of the frame throughout the length thereof and to the bight portion, the brushes on one leg projecting toward the brushes on the other leg with the free ends of said brushes being in close association with each other, the brushes on the bight portion being radially disposed, a suction pipe having a flared mouth located adjacent the radially disposed brushes for collecting insects removed from animals passing through the free ends of the brushes, a cage in communication with the pipe, a suction device intercalated in



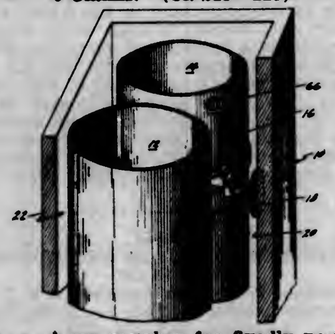
the pipe and means on the body for operating the suction device.

2,283,813

CAN CLAMP OR SIMILAR DEVICE

August H. Kreiling, Chicago, Ill., assignor to Ferriss Pharmacal Company, Inc., a corporation of Illinois

Application November 2, 1940, Serial No. 364,099
9 Claims. (Cl. 248—119)



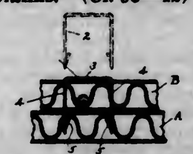
9. In a clamp member for fixedly positioning a movable object between two parallel walls by rigidly pressing the object against one of said walls, the combination of a bracket having a laterally extending gripping member, a bearing member secured to said bracket medially of said gripping member, a slidable rod mounted therein, a gripping member on the end of said rod, a lever associated with said rod, a cam member adapted to act on said lever for causing relative movement between said bracket and said rod in one direction, a handle connected thereto for operating the same, and spring means for returning said rod and bracket to their original position.

2,283,814

STAPLE AND METHOD OF STAPLING

Desmond R. La Place, Pittsburgh, Pa., assignor to Bocjl Corporation, Pittsburgh, Pa., a corporation of Delaware

Application July 29, 1940, Serial No. 348,195
5 Claims. (Cl. 93—42)



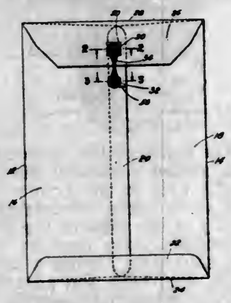
1. The method of securing together overlapping flaps of a carton formed of fibrous material which comprises driving barbed staples from which the barbs extend at an acute angle into the overlapping flaps through the outer flap and into the underlying flap to such extent that the innermost edge of the barb is below the outer surface of the innermost flap.

2,283,815

STRING CLASP OR BUTTON FOR ENVELOPES

Harry Levine, Brooklyn, N. Y.

Application February 19, 1938, Serial No. 191,391
5 Claims. (Cl. 229—78)



1. A button for a string-closed envelope, said button being made of a relatively extensive circular disk with a shank or rivet portion projecting inwardly from the center of said disk, said disk being outwardly channeled near the periphery of the disk, the peripheral portion of said disk outside said channel being turned outwardly to facilitate passage of a string beneath the disk when winding the string about the shank, said channel functioning to help anchor the string in position when said string is received in said channel, the inner end of said shank being adapted to be riveted to secure the button in place on an envelope.

2,283,816

GRIP HANDLE FOR FISHING RODS

Louis P. Loutrel, Ozone Park, N. Y.

Application October 10, 1941, Serial No. 414,399
8 Claims. (Cl. 43—23)



1. In combination, a bait casting fishing rod provided with a reel having a base engaging against said rod and held in position with collars slidably mounted on the rod and engaging over the ends of said base, a handle of the pistol grip type having a trigger guard and composed of two side half sections having a cylindrical gripping portion encasing said rod and collars and being open at the top through which said base may pass when freed, and means for releasably connecting said half sections together.

2,283,817

DETOXICANT

Gustav J. Martin, Elmhurst, and Marvin R. Thompson, Great Neck, N. Y., assignors to William R. Warner & Company, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application May 24, 1941, Serial No. 394,996
19 Claims. (Cl. 167—55)

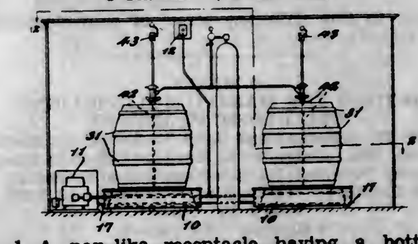
1. A detoxicant comprising at least one of the group consisting of cysteine, cystine, methionine and their soluble salts; at least one of the group consisting of hexuronic acids and their soluble salts; and at least one of the group consisting of glycine and glutamine and their soluble salts.

2,283,818

SYSTEM FOR COOLING BEVERAGES

Albert L. Reiser, Columbus, Ohio

Application February 11, 1941, Serial No. 378,467
6 Claims. (Cl. 62—141)



1. A pan-like receptacle having a bottom, means for circulating refrigerating liquids against the under side of said bottom, a body of liquid in the pan adapted to be congealed by heat transfer to said refrigerant liquid; a beer keg of conventional construction including a wooden head formed of transverse head staves, a heat conducting plate set between at least two of the staves and extending a substantial distance within the keg and having a broadened edge portion exposed at the outer face of the head for contact with congealed liquid in said pan-like receptacle.

2,283,819

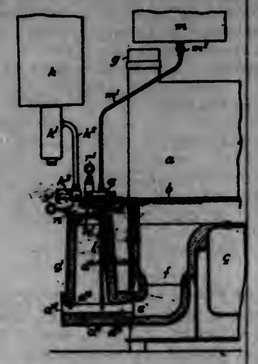
OIL BURNER

Edward James Young Rutherford, Chesham Bois, England

Application July 31, 1940, Serial No. 348,867
In Great Britain August 10, 1939
4 Claims. (Cl. 158—73)

1. An oil burner comprising a substantially vertical chamber, said chamber having refractory walls and bottom and being provided with an aperture near its top end and openings on opposite sides near its bottom end, a nozzle arranged in line with the axis of said aperture, a fuel nozzle arranged within said aperture and below said first-mentioned nozzle, for supplying liquid fuel to said fuel nozzle, a flash boiler mounted within said chamber, a burner head fitting mounted upon the top of said chamber, said burner head fitting providing a liner for said aperture and supporting said nozzles, a tubular member detachably mounted upon said burner head fitting, a screw-provided stirrup clamping said tubular member to said burner head fitting, said tubular member supporting and connected to said flash boiler, means for supplying water to said flash boiler, and means for passing steam from said flash boiler to said first-mentioned nozzle, said steam-passing means including a spigot and socket connection be-

tween said tubular member and said burner head fitting, and said spigot and socket connection



being in line with the screw of said clamping stirrup.

2,283,820
METHOD FOR MAKING MOLDED LIGNOCELLULOSIC PRODUCTS
Arlie W. Schorger and John H. Ferguson, Madison, Wis., assignors to Burgess Cellulose Company, Freeport, Ill., a corporation of Delaware
No Drawing. Application September 12, 1938, Serial No. 229,527
4 Claims. (Cl. 260—9)

1. The method for producing a thermoplastic lignocellulosic material having the property of plastic flow under heat and pressure molding conditions of 135° C. and 3000 pounds per square inch respectively, with formation of hard, water-resistant, resin-like products, which comprises cooking subdivided natural lignocellulosic material with water at a temperature of approximately 135° C. to 200° C. for approximately 15 minutes to an hour to dissolve at least a part of the hemicelluloses and render said lignocellulosic material thermoplastic, said water containing added thereto a material selected from the group consisting of alkaline earth hydroxides and carbonates in an amount such as to produce a pH of approximately 5.0 to 7.0 in the cooked mass at the end of the cook, and water-washing, drying and reducing said cooked material to a powder.

2,283,821
MOLDED LIGNOCELLULOSIC MATERIAL AND METHOD OF MAKING SAME
Arlie W. Schorger, Madison, Wis., and John H. Ferguson, Freeport, Ill., assignors to Burgess Cellulose Company, Freeport, Ill., a corporation of Delaware
No Drawing. Application January 18, 1940, Serial No. 314,454
6 Claims. (Cl. 260—10)

1. In the process for producing a thermoplastic, moldable product having high water resistance from a subdivided natural lignocellulosic material in which said material is cooked with water at a temperature of approximately 155° C. to 225° C. for a period of approximately 5 minutes to 1 hour to dissolve a part of the hemicelluloses and render the lignocellulosic material thermoplastic, the water containing an alkaline substance in an amount sufficient to produce a pH of approximately 4.0 to 6.0 in the cooked mass at the end of the cook, leaching the cooked material with water until substantially all the water solubles are removed and drying the leached material, the step which comprises mixing with the dried material approximately 1 to 10 percent by weight of a phenol.

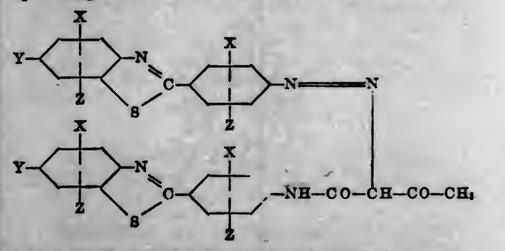
2,283,822
WINDOW CONSTRUCTION
Charles A. Shogren, Chicago, Ill.
Application December 30, 1939, Serial No. 311,849
1 Claim. (Cl. 20—52)



In a window construction, including a frame and a pair of sashes vertically slidable therein; a single weight well in the frame at each side thereof, said wells each comprising a vertical groove centrally of the sides of the frame, a substantially U-shaped strip member closing each of said wells, said strip having a base and parallel side walls, said base and adjacent portions of said side walls extending inwardly of the sides of the frame, a weight in each weight well, a flexible member connecting each weight to each sash, a bracket carried by each frame side adjacent the top thereof and enclosed by the corresponding strip, openings through said parallel sides of said strips opposite said brackets, a pair of pulleys for each flexible member carried by each bracket, and a portion of each pulley extending laterally through one of said openings in the adjacent side wall of the enclosing strip.

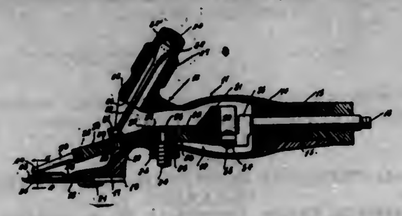
2,283,823
MONOAZO DYESTUFFS SOLUBLE IN WATER
Adolf Sieglitz and Martin Reuter, Frankfort-on-the-Main, Germany, assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application October 8, 1940, Serial No. 360,242. In Germany November 7, 1939
5 Claims. (Cl. 260—158)

1. The water-soluble monoazo-dyestuffs corresponding with the following general formula:



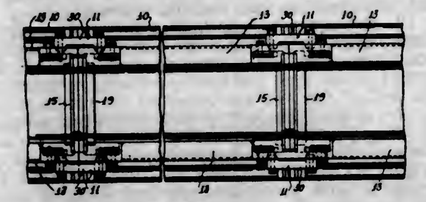
wherein X stands for a member of the group consisting of hydrogen and the sulfonic acid group, Y for a member of the group consisting of methyl and carboxyl, and Z for a member of the group consisting of hydrogen and methyl, and wherein the dyestuff contains at least two sulfonic acid groups, being yellow powders which have a very good affinity for cotton, regenerated cellulose fibers and mixtures thereof and yield yellow dyeings of very good fastness to wet-processing and good fastness to light.

2,283,824
SHEARING MACHINE
Harold C. Simonsen, Monroe, Utah, assignor of one-half to Albert A. Evans, Monroe, Utah
Application September 26, 1940, Serial No. 358,544
2 Claims. (Cl. 30—221)



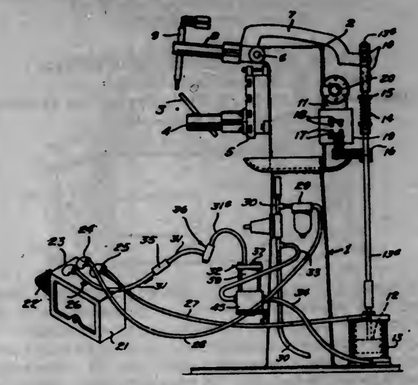
2. An animal shears of the type provided with a housing having a fixed cutter and a movable cutter disposed on the fixed cutter, an arm universally mounted intermediate of its ends in the housing and connected at one end to cam means for oscillating the arm and connected at its opposite end to said movable cutter in a manner to bear thereon; comprising a sleeve disposed in the upper part of the housing and opening inwardly and outwardly thereof, said sleeve having an upper exposed and externally threaded end, an internally threaded cap adjustably connected to the threaded end of the sleeve, said cap having a ball element projecting inwardly and downwardly from its upper, closed end, said arm having an upwardly opening socket adjacent its last mentioned end, and a rod having a ball-shaped end for engaging said socket, the opposite upper end of the rod being provided with an upwardly opening socket portion for engaging said ball element, said rod and ball and socket connections combining with the adjustable cap to adjustably hold the last mentioned end of the arm in engagement with the movable cutter.

2,283,825
SHAKER CONVEYER TROUGH AND CONNECTING MEANS THEREFOR
William W. Sloane, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application April 13, 1940, Serial No. 329,424
13 Claims. (Cl. 198—220)



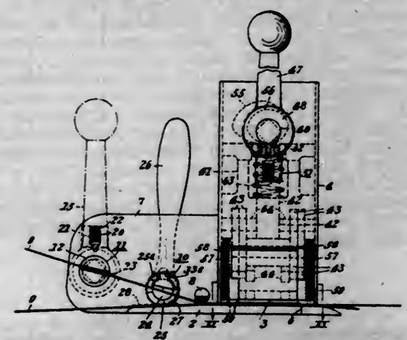
1. In a shaker conveyer, a plurality of conveyer trough sections, means for connecting said trough sections in aligned relationship for reciprocation together, and members having longitudinally extending spaced apart edge faces secured to and extending along opposite sides of said trough sections intermediate the tops and bottoms thereof, in alignment with said connecting means and said members with said connecting means and the outsides of said trough sections forming spaced apart columns extending the length of the conveyer.

2,283,826
ELECTRIC WELDING MECHANISM
John D. Seehner, Valley Stream, N. Y., assignor to Metropolitan Device Corporation, Brooklyn, N. Y., a corporation of New York
Application June 3, 1939, Serial No. 277,121
5 Claims. (Cl. 121—38)



1. In a machine of the kind described, the combination comprising two elements relatively movable between inoperative and operative positions, pneumatically operative means for effecting relative movement of the elements, and control means therefor including a valve for controlling the flow of fluid thereto, manually operative control means for controlling the operation of said valve, cut-out means automatically operative on operation of said valve in a direction to effect movement of the elements to operative position, said cut-out means upon operation rendering said manually operative control means ineffective for affecting said valve, and means for maintaining said cut-out means operative during a definite time interval.

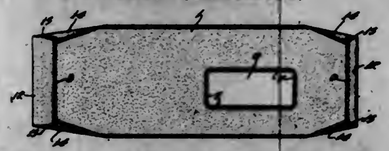
2,283,827
STRAPPING DEVICE
Herman J. Spencer, West View, Pa., assignor to Leechgrip Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application July 15, 1939, Serial No. 284,671
10 Claims. (Cl. 140—93)



1. Apparatus for use in fastening together the ends of a binding strap and a seal comprising a base, a shaft rotatably mounted on said base, said shaft having a shear mounted adjacent one end thereof, a sleeve rotatably mounted on said shaft and carrying a shearing bar adapted

to cooperate with said shear, said sleeve having an eccentric face positioned adjacent and normally urged toward the base and arranged to cooperate therewith to hold one end of the binding strap, and an operating handle for rotating said shaft for severing the strap passing between the shear and the shearing bar.

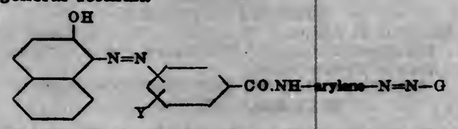
2,283,828
COVER FOR SEWING MACHINES
Helen M. Strombach, Newark, N. J.
Application March 12, 1941, Serial No. 382,960
1 Claim. (Cl. 45—68.3)



A cover for the top of a sewing machine, comprising a rectangular sheet of suitable material having an opening therein to accommodate a sewing machine head, said rectangular sheet having adjacent the ends thereof its side edges folded over to provide triangular flaps overlying the underside of the sheet, the end of the sheet being folded over the flaps and the underside of the sheet and stitched to the flaps to cooperate with the flaps to provide a plurality of pockets.

2,283,829
DIAZOTIZABLE AZODYESTUFFS
Fritz Suckfüll, Leverkusen-Wiesdorf, and Heinrich Clingestein, Cologne-on-the-Rhine, Germany, assignors to General Aniline & Film Corporation, a corporation of Delaware
No Drawing. Original application March 9, 1938, Serial No. 194,833. Divided and this application November 7, 1940, Serial No. 364,670. In Germany March 17, 1937
3 Claims. (Cl. 8—48)

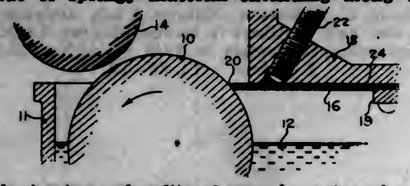
1. Cellulosic fibers dyed with a dyestuff of the general formula



wherein G stands for the radical of a "yellow component" of the group consisting of pyrazolones, acetoacetic acid arylamides, ketoles, phenol-o-carboxylic acids and combinations of pyrazolones with pyrazolones and of pyrazolones with other yellow components linked by azo groups, G being free from diazotizable amino groups, Y stands for a negativating substituent selected from the group consisting of —CN, —NO_2, halogen, —SO_2— and —CO—, the free valences of the SO_2 and CO groups being connected to an organic radical, and the arylene radical belongs to the benzene series.

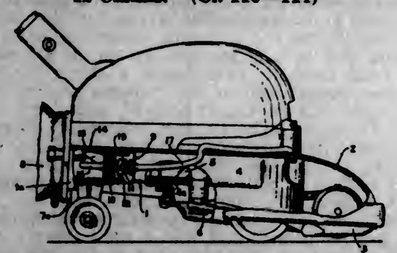
2,283,830
INKING MECHANISM
Auburn Tayler, Charleston, W. Va., assignor to The Goss Printing Press Company, Chicago, Ill., a corporation of Illinois
Application January 22, 1941, Serial No. 375,406
9 Claims. (Cl. 101—365)

1. In an ink fountain, the combination of a fountain roller and a doctor blade cooperating therewith, the doctor blade comprising a thin blade of springy material extending along the



roller having a plurality of spaced apart weakened portions extending away from the roller.

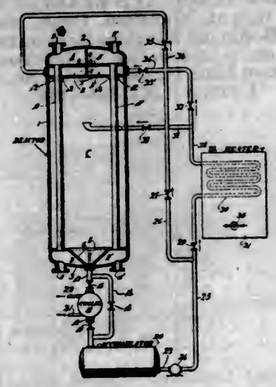
2,283,831
BAG PRESSURE INDICATOR FOR SUCTION CLEANERS
Charles H. Taylor, Springfield, Mass., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application July 8, 1939, Serial No. 283,327
12 Claims. (Cl. 116—114)



1. A bag pressure indicating device of the compensating type for suction cleaners of the type having a suction-creating system, comprising a signal member mounted on said cleaner and shiftable to and from a position to indicate an excessive bag pressure in the suction system of the cleaner, a pressure-responsive element communicating with the pressure side of said suction system and connected with said signal member tending to shift the same into signaling position under predetermined conditions of increased back pressure on said suction system, and a secondary pressure-responsive element communicating with the suction side of said system and also connected with said signal member to aid in shifting it and to compensate for the effect upon the action of said indicating device of an abnormal increase in the volume of air delivered to said suction system.

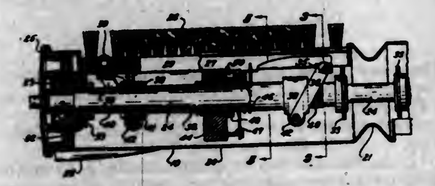
12. A bag pressure indicator for suction cleaners of the type having a suction-creating system, comprising an indicating element movable between clear and warning position, a pressure-controlled element connected to the pressure side of the said system and to said indicating element to exert a force thereon to tend to move said element to warning position, resilient means exerting an opposing force greater than that exerted by said pressure-controlled element under all operating conditions, and a second pressure-controlled element connected to the suction side of said system and to said indicating element, said pressure responsive elements being connected to said indicating element as to exert complemental moving forces thereon to overcome the force of the resilient means under warning conditions, characterized in that the force of said resilient means exceeds the combined forces of said pressure-controlled elements with the pressures at the suction and pressure sides of said system resulting from the free unhindered flow of air into said suction system.

2,283,832
CONTROL OF ENDOTHERMIC AND EXOTHERMIC CATALYTIC REACTIONS
Charles L. Thomas, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application February 9, 1940, Serial No. 318,098
9 Claims. (Cl. 23—1)



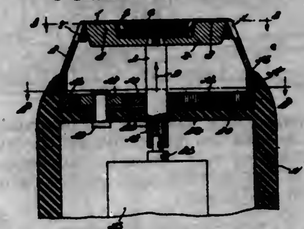
1. The method of controlling the temperature of endothermic and exothermic reactions simultaneously conducted in separate reaction zones having heat-conductive walls, comprising the steps of contacting a heat transfer medium in the form of a flowing film or sheet of liquid at a temperature closely approaching its vaporization point with the heat-conductive walls of said exothermic reaction zone to substantially vaporize said fluid and absorb therein the latent heat of vaporization, causing resulting evolved vapors to contact the heat-conductive walls of the endothermic reaction zone and substantially condense thereon to liberate the latent heat of condensation, collecting liquid thus condensed from the vaporized heat transfer medium and returning the same in regulated quantities as said film or sheet of liquid into contact with said walls of the exothermic reaction zone.

2,283,833
SUCTION CLEANER
Charles G. Troxler, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application July 15, 1939, Serial No. 284,577
22 Claims. (Cl. 15—183)



1. A rotary agitator for a suction cleaner including a body, means to support said body for rotation, an agitating element subject to wear in use mounted for radial adjustment relative to said support means, and agitator-rotation-operated means to project said element radially a predetermined increment of distance from its last position in use each time said agitator begins to rotate.

2,283,834
HAIR-CUTTING DEVICE
Alexis van Dam and Alexandre Horowitz, Eindhoven, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application November 7, 1939, Serial No. 303,290
In Germany November 10, 1938
5 Claims. (Cl. 30—43)



1. In an electric razor, a shear plate provided with a large number of substantially radially-extending slits adapted to receive the hair to be cut, a cutter cooperating with said shear plate, means to rotate said cutter at a high speed including a motor, and means to rotate said shear plate at a speed which is low with respect to the speed of said cutter.

2,283,835
INLET VALVE FOR SUCTION CLEANER DIRT BAGS
James W. Weaver, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application February 9, 1940, Serial No. 318,955
1 Claim. (Cl. 251—122)

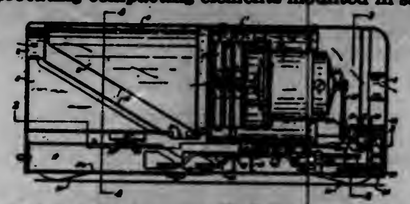


A valve for a suction cleaner dirt bag comprising a sleeve of flexible material adapted to be positioned in the mouth of a bag and having an open end adapted to communicate with the exhaust of a cleaner, the opposite end of said flexible sleeve having an outlet for discharging dirt-laden air, a spring in one-half only of the periphery of said outlet, said spring exerting a force at all times tending to move the one-half periphery to which it is attached into a convex contour facing the apposing one-half periphery of said outlet to effect the closing of said outlet by drawing said one-half periphery portions together, characterized in that said spring force is of a magnitude such that the force of a stream of air passing therethrough can overcome the tendency to assume said convex contour to effect the opening of said outlet.

2,283,836
SUCTION CLEANER
Harry B. White, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application December 7, 1940, Serial No. 369,051
5 Claims. (Cl. 183—38)

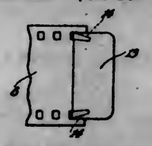
1. In a suction cleaner, the combination of a casing housing suction-creating means including a motor, a dirt-collecting chamber and a sep-

arate compartment beneath said chamber and communicating therewith through an opening at the bottom of said chamber, a plurality of reciprocating compacting elements mounted in said



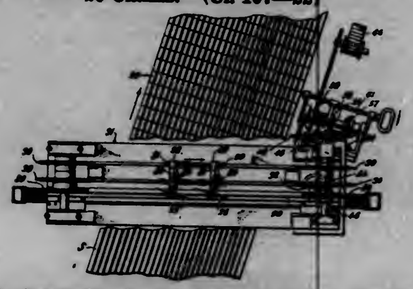
compartment below said discharge opening and operative to feed the dirt delivered therethrough into a portion of said compartment beyond, and mechanism for driving said reciprocating elements from said motor.

2,283,837
FILING DEVICE FOR PHOTOGRAPHIC NEGATIVES AND THE LIKE
Frank Graham Sarel Whitfield and Cuthbert Jack Golledge, London, England
Application May 20, 1940, Serial No. 336,298
In Great Britain June 27, 1939
1 Claim. (Cl. 40—26)



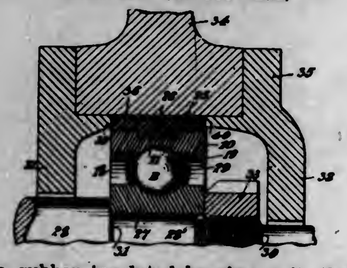
In a filing device, a photographic film or the like having matched perforations at opposite lateral edges thereof, a flat member of bendable material of a length substantially equal to the width of a film, and having a bendable, laterally directed prong at each end thereof, said prongs being inserted in a pair of matched perforations of said film and bent over so as to form a rigidly connected identifying tab for said film.

2,283,838
APPARATUS FOR CUTTING PASTRY STRIPS
Charles H. Williams, Indianapolis, Ind., assignor to William P. Morton, Indianapolis, Ind.
Application April 12, 1941, Serial No. 388,190
20 Claims. (Cl. 107—22)



1. Apparatus for cutting pastry strips and the like, comprising in combination, a conveyor for carrying a longitudinally advancing strip, an endless transverse belt having a cutting span above the conveyor and a cleaning span below the conveyor, a plurality of rotatable cutting disks pivoted at spaced intervals to said belt, said disks being disposed in echelon in parallel planes disposed at an angle to the belt in the cutting span and being disposed in alignment parallel to the belt in the cleaning span, and wiper rails forming a slot between them to bind the aligned disks and cause them to rotate for cleaning.

2,283,839
RUBBER INSULATED BEARING UNIT
Frank L. Wright, Stamford, Conn., assignor to Norma-Hoffmann Bearings Corporation, Stamford, Conn., a corporation of New York
Application June 17, 1939, Serial No. 279,598
1 Claim. (Cl. 308—184)

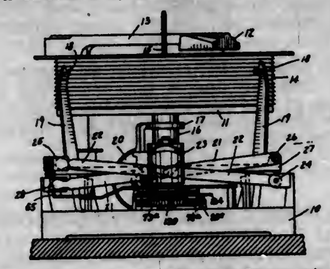


In a rubber insulated bearing unit, the combination of an outer race ring of a ball bearing having a centrally located rectangular groove in its outer surface having shoulders, an outer thin, metallic embracing shell adapted to have its exterior fixedly seated in a housing and having inwardly shaped outer ends with their exterior sides extending substantially in the planes passing through the lateral sides of the outer race ring enclosing a rectangular shaped space, the free ends of the sides of the shell being spaced from the outer race ring, and a layer of yieldable vulcanized material disposed within said groove and between the outer surface of the outer race ring and the inner surface and within the ends of the outer metallic embracing shell, the depth of the material entering the groove between the shoulders and the depth of the material entering the shell between the outer ends thereof being each greater than the thickness of the material between the outer race ring and said ends, the groove being of less width than the space between said ends whereby the interposed yieldable material takes up vibrations and the relationship of the inner rectangularly shaped ends of the shell and the groove in the outer race ring is such as to confine any horizontal shearing action upon the interposed yieldable material to that narrow portion disposed between the outer race ring and the ends of the shell.

2,283,840
AUTOMATIC PHONOGRAPH
Theodore M. Wright, North Tonawanda, N. Y., assignor to The Rudolph Wurlitzer Company, Cincinnati, Ohio, a corporation
Application July 27, 1939, Serial No. 286,784
11 Claims. (Cl. 274—10)

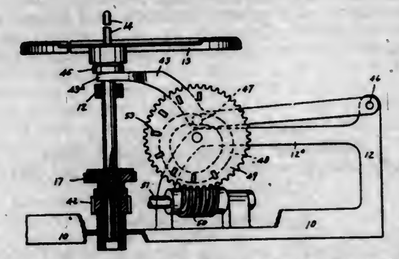
11. In an automatic phonograph, a turntable adapted to receive a stack of records of predetermined size, a power drive operatively connected to said turntable for rotating the same, mechanism periodically connected with said power drive for automatically exposing the various records in the stack for reproduction, a reproducer periodically connected with said power drive movable thereby into position adjacent the periphery of the record presented for play, a depressible member on said phonograph adjacent

said stack and positioned for engagement and operation by the under surface of a record of larger size manually placed and supported upon said stack, means controlled by said member when operated for rendering said mechanism inoperative to permit play of said larger record, means rendered effective by said last-mentioned means



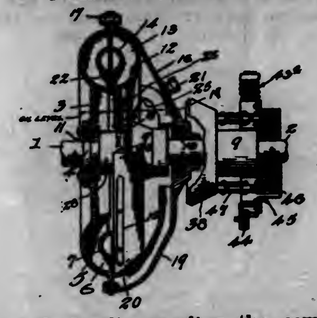
to automatically stop said reproducer at a position adjacent the periphery of said larger record, a trip mechanism actuated by said reproducer upon completion of said play, and means controlled by said trip mechanism and actuated by said power drive operable to render said mechanism operative upon said larger record being removed from the stack.

2,283,841
CLUTCH CONTROL MECHANISM
Theodore M. Wright, North Tonawanda, N. Y., assignor to The Rudolph Wurlitzer Company, Chicago, Ill., a corporation
Original application August 4, 1939, Serial No. 288,336, now Patent No. 2,251,381, dated August 5, 1941. Divided and this application March 28, 1940, Serial No. 326,333
8 Claims. (Cl. 274—1)



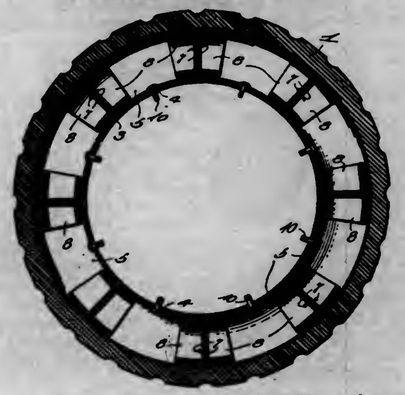
8. In a clutch control mechanism, a pair of spaced clutch members each comprising a driving element and a driven element, a driving shaft in driving connection with one of said elements, a driven member in driving connection with the other element, latching means provided on each of said elements, means for swivally mounting one of said elements relative to the other for movement in and out of latching engagement therewith, oppositely disposed projections on each of said swivally mounted elements, said projections being offset relative to each other, a reciprocating clutch bar slidably mounted with its edge extending adjacent said clutch members arranged for engagement by one or the other of said projections, said bar being provided with a notch opposite each of said clutch members so arranged in respect to said projections that upon alignment with one of said projections its associated offset projection will strike said bar to oscillate its element into clutching position, and when aligned with the other of said projections will be engaged by its associated offset projection for oscillating said element to declutching position.

2,283,842
HYDRAULIC COUPLING
Frank B. Yingling, Hamilton, Ohio
Application February 25, 1941, Serial No. 380,561
8 Claims. (Cl. 192—12)



1. In a hydraulic coupling the combination with a drive shaft, a driven shaft, an impeller rotatable with the drive shaft and a complementary runner rotatable with the driven shaft, and said impeller and runner forming an interior, central fluid reservoir and a working chamber, of a valve movable from said reservoir to said chamber and operable to cut off circulation of fluid between said impeller and runner, operating means adapted to project the valve from the reservoir to the chamber, and means operably connected to said valve for arresting rotation of the driven shaft.

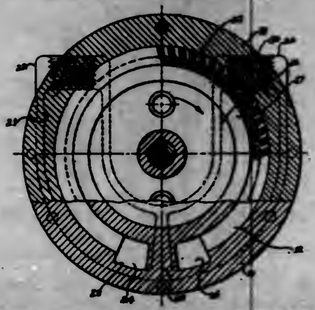
2,283,843
PNEUMATIC TIRE
Vicente M. Zamora and Rafael P. Rooes, Manila, P. I.
Application March 18, 1940, Serial No. 324,451
5 Claims. (Cl. 152—334)



1. A pneumatic tire comprising a casing, and air containers in said casing extending circumferentially of the casing in end to end relation to each other, each container having a tubular body formed with heads at its ends, end portions of the body being shifted inwardly into the body in telescoped relation thereto and held in the retracted position by engagement with the head at the adjacent end of an adjoining con-

tainer, the telescoped end portions of said containers being movable outwardly to an extended position to collapse a punctured container and occupy a portion of the space in the casing previously occupied by the punctured container.

2,283,844
PUMP
Francis E. Brady, Jr., Muncie, Ind.
Application April 12, 1940, Serial No. 329,331
13 Claims. (Cl. 103—96)



2. A turbine pump comprising a casing forming an annular raceway and having supply and discharge passages communicating with the raceway, a rotor mounted in the casing and having an annular series of spaced blades operable along the raceway, said blades having a rearward outward inclination to the radial direction and inclining laterally and forwardly to lateral edge portions which move along the raceway, said blades and casing being arranged to produce a lateral discharge of fluid from the outer portions of the spaces between adjacent rotor blades into the raceway and preventing substantial flow of fluid radially outwardly from the peripheral portions of the blades.

2,283,845
METHOD OF MAKING VARIEGATED BALLS
Clarence W. Brown, Chicago, Ill.
Application January 29, 1940, Serial No. 316,254
5 Claims. (Cl. 18—55)



1. The method of manufacturing a variegated ball which consists in uniting differently colored sheets of sponge rubber, passing the united sheets in strip form through an extruding machine to form a cord, severing the cord in predetermined lengths, and expanding the severed portions of the cord in a mold to shape the mass into spherical configuration.

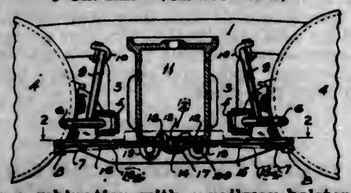
2,283,846
BRAKE GEAR SAFETY SUPPORT
Edwin G. Busse, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application November 10, 1939, Serial No. 303,783
10 Claims. (Cl. 188—210)

1. In combination with a railway truck bolster having an upright wall and integral bracket structure projecting laterally therefrom, and having elements spaced apart vertically and facing toward said wall, a brake beam support inserted



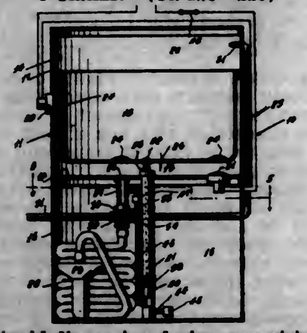
through said bracket structure and having a part resting thereon, and a pin extending through the sides of said bracket structure to distort said support between said elements and maintain the assembly of said support and bolster.

2,283,847
RAILWAY BRAKE GEAR SUPPORT
Edwin G. Busse, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application October 13, 1941, Serial No. 414,723
6 Claims. (Cl. 188—210)



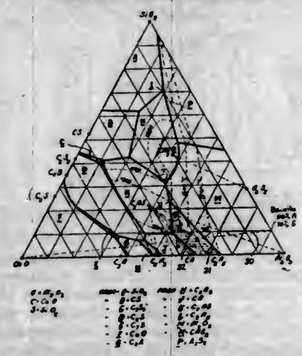
1. In combination with a railway bolster having a bottom wall provided with a recess and with an adjacent projection, a brake gear support arm of spring material overlying said projection and having an end received in said recess, an element carried by said wall at a point at the side of said projection spaced from said recess and supporting the corresponding portion of the arm, the portion of the arm between said recess and element being distorted by said projection to hold the arm in assembled relation with the bolster.

2,283,848
DOUCHE APPARATUS
Donald M. Chapin, Artesia, N. Mex.
Application November 7, 1940, Serial No. 364,743
5 Claims. (Cl. 128—229)



1. A liquid dispensing device comprising a container, a diaphragm disposed in said container and dividing it into compartments, an outlet formed in one of said compartments, a pipe connected to a source of liquid supply under pressure and opening into the other compartment, a shut-off valve for said outlet, a control valve for said pipe, said diaphragm being distended by the liquid entering said last mentioned compartment when said control valve is opened for forcing the liquid from said first mentioned compartment, and into which the diaphragm is distended, when said shut-off valve is in an open position, and an aperture formed in said diaphragm for the slow passage of the liquid from said last mentioned to the first mentioned compartment, said aperture providing means for refilling the first mentioned compartment when said valves are closed.

2,283,849
METHOD OF PRODUCING ALUMINA
Henry L. Coles, University, Ala., assignor, by direct and mesne assignments, of nine-tenths to William Sokolec, Chicago, Ill., and one-tenth to Howard W. Dix, New York, N. Y.
Application July 25, 1939, Serial No. 286,368
8 Claims. (Cl. 23—141)



7. In the method of producing alumina from bauxite, the steps which comprise mixing bauxite and an amount of lime between that which is sufficient to transform all of the silica and part of the alumina present in the bauxite to $2CaO.SiO_2.Al_2O_3$, and the balance of the alumina to $3CaO.5Al_2O_3$ and that amount of lime which is sufficient to transform all of the silica and part of the alumina to $2CaO.SiO_2.Al_2O_3$ and the balance of the alumina to $CaO.Al_2O_3$, said amounts of lime being from 24.7% to 41%, of silica from 3.5% to 21.8%, and of alumina from 75.3% to 37.2%, passing this mixture through a drying kiln, heating said mixture in said kiln to a temperature between 650° C. and 815° C. to dry it, then crushing this mixture to 80–100 mesh, then passing this so crushed mixture through a calcining kiln and heating said mixture in said kiln to a temperature from about 1500° C. to not more than 1700° C. to form an insoluble calcium aluminum silicate and soluble calcium aluminates, passing said silicate and calcium aluminates to a digester having a bath of sodium hydroxide and sodium carbonate, said sodium hydroxide including re-cycled sodium hydroxide, filtering the product from the digester to remove the insoluble silicate with red mud, crystallizing and separating out the alumina, returning some of the sodium hydroxide to the digester, and adding sodium carbonate to the digester to replace the sodium hydroxide which was removed.

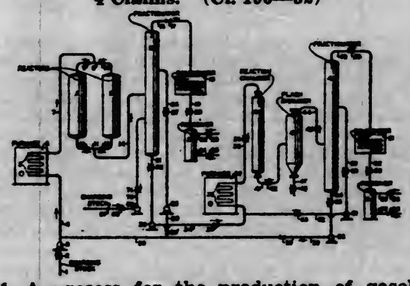
2,283,850
TENSION LOCK NUT
Louis D. Danforth, Los Angeles, Calif.
Application June 22, 1939, Serial No. 280,597
4 Claims. (Cl. 151—7)

1. A lock-nut comprising a threaded metallic body portion and an annular, deformable, and non-threaded insert in said body portion in medial axial alignment therewith, said metallic body portion being formed with outwardly in-



dividually yieldable segmented wall portions convergingly inclined with respect to one another whereby said insert is retained in said body portion under resistance to flexure of said segmented walls by an extraneous body.

2,283,851
HYDROCARBON CONVERSION PROCESS
Roland B. Day and Elmer R. Kanhofer, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application March 31, 1941, Serial No. 386,113
4 Claims. (Cl. 196—52)

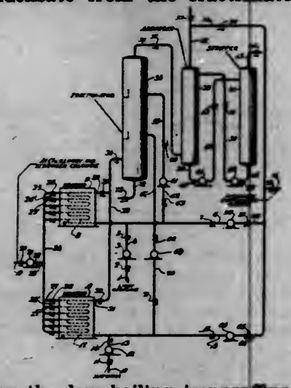


1. A process for the production of gasoline which comprises subjecting a combined feed formed as hereinafter set forth to catalytic cracking, fractionating from the products of said catalytic cracking step gasoline, light intermediate conversion products, and heavy intermediate conversion products, commingling said heavy intermediate conversion products with light intermediate conversion products formed in a thermal cracking step as hereinafter set forth and subjecting the mixture to thermal cracking to form substantial quantities of gasoline, separating the products of said thermal cracking step into a non-vaporous liquid residue and a vaporous fraction, fractionating said vaporous fraction to separate gasoline, light intermediate conversion products and heavy intermediate conversion products and commingling the heavy intermediate conversion products from the thermal cracking step with the light intermediate conversion products from the catalytic cracking step and with a relatively high boiling hydrocarbon oil charging stock to form the combined feed for the catalytic cracking step.

2,283,852
PRODUCTION OF ISOPARAFFINS
Gustav Egloff, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application July 5, 1940, Serial No. 344,109
4 Claims. (Cl. 260—676)

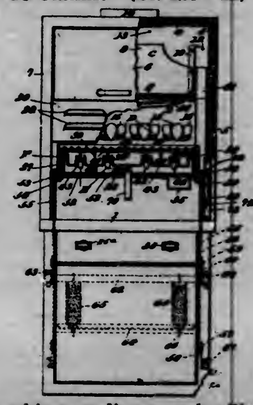
4. A process for the production of low boiling

isoparaffins which comprises cracking a light gasoline fraction in the presence of aluminum chloride to form low boiling isoparaffins, simultaneously and concurrently cracking a naphtha fraction under separately controlled cracking conditions and in the presence of aluminum chloride to form low boiling isoparaffins, combining conversion products from both cracking steps and separating cracked vapors from residue, fractionating said cracked vapors to separate reflux condensate from the fractionated vapors,



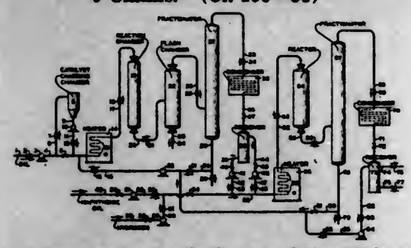
recovering the low boiling isoparaffins comprising isobutane and isopentane from the fractionated vapors, separating said reflux condensate into at least two fractions, a light reflux condensate having a boiling range approximating that of said light gasoline fraction and a heavy reflux condensate having a boiling range approximating that of said naphtha fraction, supplying said light reflux condensate to the first mentioned conversion step, and supplying said heavy reflux condensate to the second mentioned conversion step.

2,283,853
BROILER
William H. Frick, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo., a corporation of New Jersey
Application March 18, 1940, Serial No. 324,707
13 Claims. (Cl. 126—41)



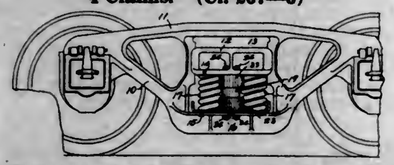
1. In a cooking appliance, a broiling chamber having a burner in the upper end thereof and an opening in its front, a closed drawer in the lower end of said broiling chamber and having a lower broiler burner therein, a trackway supporting said drawer and permitting the same to be moved inwardly and outwardly through said chamber front opening, an outlet flue for said broiling chamber, an outlet conduit communicating with said drawer, means to admit secondary air into said drawer to support combustion at the lower burner therein, and said drawer outlet conduit movable with said drawer and at all times communicating with said broiling chamber flue outlet.

2,283,854
CONVERSION OF HYDROCARBON OILS
Bernard S. Friedman and Wayne L. Benedict, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application July 5, 1940, Serial No. 344,062
9 Claims. (Cl. 196—53)



1. A process for producing a substantially saturated gasoline of high octane number which comprises cracking a hydrocarbon oil in the presence of a powdered cracking catalyst and of a hydrogen-containing gas at a temperature and pressure adequate to form a product containing a substantial proportion of gasoline; separating the conversion products into a hydrogen-containing gas, a gasoline fraction containing substantial amounts of unsaturated hydrocarbons, and a higher boiling fraction; returning a portion of said higher boiling fraction to the cracking step; combining said gasoline fraction with a hydrogen-containing gas and a naphthenic oil subjecting the mixture to contact with a dehydrogenating catalyst under conditions of temperature pressure and time adequate to form a substantially saturated gasoline; separating resultant conversion products into a hydrogen-containing gas, a substantially saturated gasoline fraction, and a higher boiling residue; and supplying said hydrogen-containing gas and said higher boiling residue to the first mentioned conversion step.

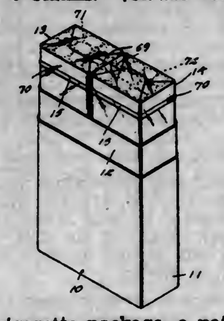
2,283,855
CAR SPRING SNUBBER
Norman E. Gee, Narberth, Pa.
Application September 3, 1940, Serial No. 355,227
4 Claims. (Cl. 267—3)



1. In a car truck, the combination with the truck frame, bolster, and springs positioned between the bolster and the frame, of a combined rubber compression and tension snubber device also positioned between the bolster and the frame,

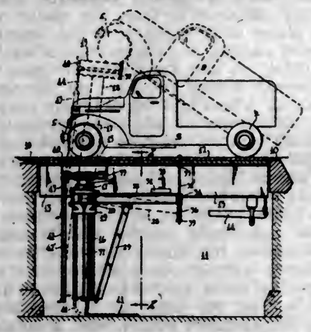
said device including a cylindrical rubber body having outwardly offset flanges at opposite ends thereof, a pair of housings for receiving the flanged ends of said rubber body unit, and means embracing said rubber body and disposed within the housings for locking said flanges therein.

2,283,856
CIGARETTE PACKAGE
Henry M. Hoenig, Louisville, Ky.
Application September 1, 1939, Serial No. 293,118
9 Claims. (Cl. 229—51)



1. In a cigarette package, a pair of normally sealed independently openable parallel closely related inner containers, each adapted for containing a quantity of cigarettes and including a front, a rear, a pair of end and inner and outer side walls, a severable enclosing means common to said containers, an independent opening member for each container having a portion anchored to the inner face of the latter in proximity to one of its end walls and a portion extended from within the container and disposed against and free of connection to the outer face of the body of the container, said containers being formed from a folded single web of material possessing the characteristic to maintain the cigarettes fresh in each container until the latter is opened, and the ends of one container being connected to the ends of the other container, the said portions of said members extended from the containers being oppositely disposed and passing outwardly between the inner side walls of the containers.

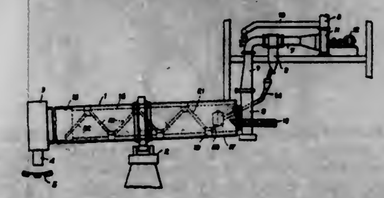
2,283,857
DUMPING TRUCK LIFT
Walter A. Kostick, Minneapolis, Minn.
Application April 26, 1940, Serial No. 331,794
8 Claims. (Cl. 214—46.5)



4. The combination with a platform having a supplemental section forming a lifting platform

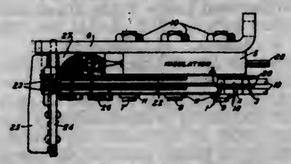
normally seated therein but capable of being bodily raised away from and above the same, of a cylinder and piston lifting motor, said cylinder being pivotally hung from said platform structure, the piston of said motor having a head operative to lift said supplemental section and permit the same and said motor to oscillate, said cylinder having a rigidly secured laterally projecting arm, a stop on said platform structure limiting the upward movement of said arm but permitting downward movement thereof.

2,283,858
DUST COLLECTOR
George W. Kuerner, Mobile, Ala., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application July 27, 1940, Serial No. 347,902
4 Claims. (Cl. 34—102)



1. Apparatus for drying material comprising a kiln adapted for the passage of material therethrough, means for feeding the material to be dried into one end of said kiln, means at the opposite end of the kiln for discharging dried material, means at the discharge end of said kiln for supplying drying gases for passage through said kiln in contact with the material being dried in a direction opposite to the movement of the material, a dust collector adapted to recover the fine material carried by the gases leaving the feed end of the kiln, and means comprising a passage system located within the kiln adapted to receive the fine material recovered in the dust collector and convey said material from the feed end of the kiln through a substantial portion of the kiln length while maintaining said material substantially out of contact with the drying gases, said passage system being adapted to discharge said fine material within the kiln at a point remote from the feed end to provide a reduced period of contact of said fine material with the drying gases.

2,283,859
MAGNETIC CONTACT STRUCTURE
Emory Lakatos, New York, N. Y., and Howard T. Reeve, Millburn, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 9, 1939, Serial No. 308,496
9 Claims. (Cl. 200—166)



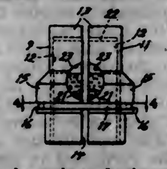
1. An electrical contact element fabricated from a magnetic material having good electrical conductivity composed of a mixture of finely divided particles of iron and finely divided particles of silver.

2,283,860
WHEEL STRUCTURE
John R. Manning, Santa Fe, N. Mex., assignor of one-fourth to Sue Winston, and one-fourth to Martha Donaldson, both of Santa Fe, N. Mex.
Application August 31, 1940, Serial No. 355,075
4 Claims. (Cl. 301—36)



1. In combination with a rim comprising separable sections, a locking ring for connecting said sections comprising an expansible substantially circular split band, said band having a section pivoted to said band at one end thereof and removably engageable with the band at its other end to allow contraction of the ring.

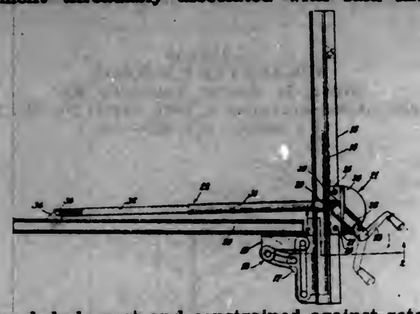
2,283,861
VIBRATION DAMPING DEVICE
Louis A. McNabb, Chicago, Ill., assignor to The Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application June 18, 1940, Serial No. 341,216
2 Claims. (Cl. 250—27.5)



1. A vibration damping device comprising an elongated element provided with a longitudinally extending bore open at one end and engageable over an electric light beam element containing tube, and provided with a longitudinally extending slit through the wall thereof formed by said bore and with a light opening at said slit and alinable with said light beam element.

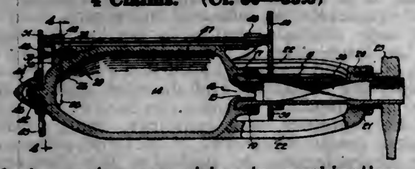
2,283,862
WINDOW OPERATOR
Edmund Peremi and Louis Toth, Manhasset, N. Y.
Application July 4, 1939, Serial No. 282,783
6 Claims. (Cl. 268—117)

1. An operator for a casement window or the like pivotally disposed in a frame comprising, in combination, a housing secured to said frame, said housing including a substantially horizontal base portion and a substantially vertical web portion lying in a plane parallel to the plane of said frame, a tubular journal member secured to and extending through said web portion, the axis of said member extending diagonally of said web and base portions, a driving member rotatably mounted in said journal member, a hand crank on the outer end of said driving member and located to one side of the window opening, a threaded element, means operatively connecting said element to said member so as to rotate upon rotation of said crank, a second threaded element threadably associated with said first



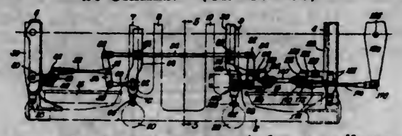
threaded element and constrained against rotation with respect thereto, whereby upon rotation of said first element by said crank said second element is moved axially of the first, and means for connecting said second element to the window for operation thereof.

2,283,863
ROCKET ENGINE
Ernest Achterman, Westfield, N. J., assignor to Ernest Frank Achterman, Westfield, N. J.
Application September 29, 1937, Serial No. 166,290
4 Claims. (Cl. 60—35.6)



1. An engine comprising in combination, an elongated casing having a head end and a tail end, a combustion chamber within said casing, an exhaust outlet in the tail end of the casing axially thereof and in open communication with said combustion chamber, a combustible liquid fuel inlet and a liquid oxygen inlet in the head end of the casing opening into said combustion chamber, a slide valve for said liquid fuel inlet for controlling the flow of liquid fuel into said combustion chamber, a slide valve for said liquid oxygen inlet, each of said slide valves including a reciprocable valve stem, a spring acting to hold each slide valve in closed position, the valve stems being disposed within the same circumferential plane with respect to the longitudinal axis of said casing, a cam carrier wheel rotatably mounted at the head end of said casing axially thereof, a cam provided on the rear face of said carrier wheel and successively engageable with the valve stems of said slide valves to actuate the same to open position against the action of the springs during rotation of said carrier wheel to admit liquid fuel and oxygen into said combustion chamber, and means driven by the resultant forces produced by the explosion of the liquid fuel and liquid oxygen within said combustion chamber for imparting rotation to said carrier wheel during operation of the engine, said means including an exhaust tube of uniform diameter having its inner end rotatably connected to the exhaust outlet, and a spiral partition fixed within the exhaust tube and extending lengthwise thereof.

2,283,864
BRAKE ARRANGEMENT
Ray G. Aurien, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application September 20, 1940, Serial No. 357,579
20 Claims. (Cl. 188—56)



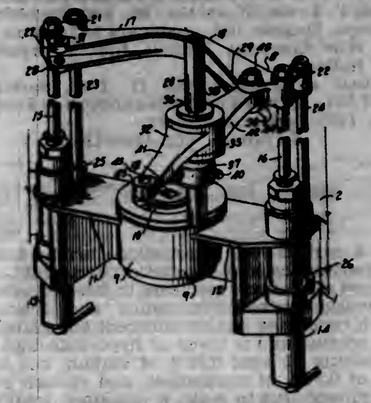
1. In a brake arrangement for a railway car truck, a frame comprising an intermediate transom, supporting wheel and axle assemblies, and brake rigging comprising hanger levers supporting beams intermediate the wheels and at one end of the truck, hangers supporting a beam at the opposite end of the truck, live and dead truck levers associated with the beams at respective ends of the truck, auxiliary levers associated with the intermediate beams, pull rods connecting the auxiliary levers and dead levers at each side of the truck, and operative connections between the live truck levers and adjacent auxiliary levers respectively, the operative connection at each side of the truck comprising a lever fulcrumed at its upper end from said transom and connected intermediate its ends to the adjacent live truck lever, and an operative connection between the fulcrumed lever and the adjacent auxiliary lever.

2,283,865
SHAVING MACHINE
Joseph H. Cohen, Bridgeport, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut
Application June 10, 1938, Serial No. 212,861
12 Claims. (Cl. 30—43)



1. In a shaving machine for personal use comprising a stationary disk having narrow hair-receiving slots; a skirt depending from said disk; a driving shaft; an inner member comprising a cutter blade having a plurality of spaced cutting edges to cooperate with the undersurface of the stationary disk to shear off hairs extending therethrough, said cutting blade having an aperture therein whereby it is mounted on the driving shaft for limited lateral shifting movement in all directions to centralize the blade relative to the disk; and means for coupling the cutter member to the drive shaft for rotation therewith.

2,283,866
DRILLING RIG
George J. C. Failing, Enid, Okla., assignor to The George E. Failing Supply Company, Enid, Okla., a corporation of Oklahoma
Application July 19, 1939, Serial No. 285,258
10 Claims. (Cl. 255—22)



1. In a drilling rig, drill rotating means, hydraulic cylinders located on opposite sides of the drill rotating means, pistons in said cylinders, rods connecting the pistons, a yoke connecting the rods having a portion offset from the axis of the drill rotating means, a drill rod engaging member positioned in said offset, means movably connecting the drill rod engaging member with the yoke on one side of said offset, and means selectively securing the drill rod engaging member to the yoke on the other side of said offset to retain the drill rod in coaxial relation with said drill rotating means and releasable for bodily movement of the drill rod laterally away from said rotating means when the drill rod is withdrawn from said rotating means.

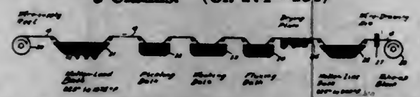
2,283,867
PACKAGING AND PRESERVING DRIED BIOLOGICALS, PHARMACEUTICALS, AND THE LIKE
Earl W. Flosdorf, Upper Darby, and Francis J. Stokes, Jr., Chestnut Hill, Pa., assignors to F. J. Stokes Machine Company, a corporation of Pennsylvania
Application December 19, 1939, Serial No. 310,060
3 Claims. (Cl. 312—31)



1. An article of manufacture comprising a package including an aseptic inner container containing desiccated biologically active material which is subject to deterioration by moisture, said inner container being formed entirely of liquid-impermeable material and having at least a portion thereof formed of material puncturable by a hypodermic needle and permeable to

water vapor, and a metallic water vapor impermeable outer container hermetically enclosing the inner container.

2,283,868
HOT-GALVANIZED CARBON-STEEL ALTERNATING-CURRENT CONDUCTOR
Frank F. Fowle, Winnetka, Ill., and Frederick M. Crapo, Muncie, Ind., assignors to Indiana Steel & Wire Company, Muncie, Ind., a corporation of Indiana
Original application May 11, 1938, Serial No. 207,351. Divided and this application February 13, 1939, Serial No. 256,112
5 Claims. (Cl. 174—134)



1. A carbon-steel alternating-current conductor having lowered magnetic permeability and lowered skin effect, resulting in lowered effective alternating-current resistance and reactance, which conductor has an adherent hot-galvanized zinc coating and is made of hypo-eutectoid steel containing at least 0.25% of carbon, not in excess of 0.30% of manganese, and enough silicon and phosphorus to make a combined total of at least 0.05% but with silicon not in excess of 0.25% and phosphorus not in excess of 0.12%, and which has a sorbitic structure, and which has been subjected to cold-working and to subsequent partial annealing by which the effects of the cold-working have been partially but only partially eliminated so that effects of that cold-working in part persist, and which has a tensile strength above 120,000 pounds per square inch and an elongation of the order of 4% to 8%.

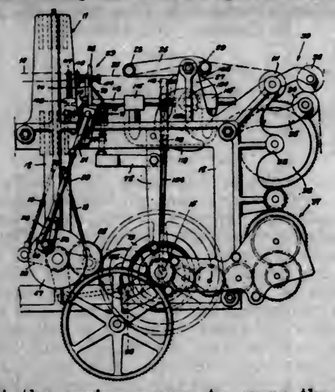
2,283,869
OIL REGULATING MEANS FOR SEWING MACHINES
David A. Graesser, Elizabeth, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application January 5, 1940, Serial No. 312,467
6 Claims. (Cl. 112—256)



1. A sewing machine having in combination, a rotatable hook-shaft formed with a longitudinal bore, a hook carried by said shaft and having a raceway in which a thread-case is journaled, oil conducting means for conducting oil from the bore of said shaft to the raceway in said hook, a conduit for supplying oil to the bore in said shaft, an oil reservoir, means for supplying oil under pressure from said reservoir to said conduit, and adjustable means connected with said conduit for allowing some of the oil in the conduit to return to said reservoir.

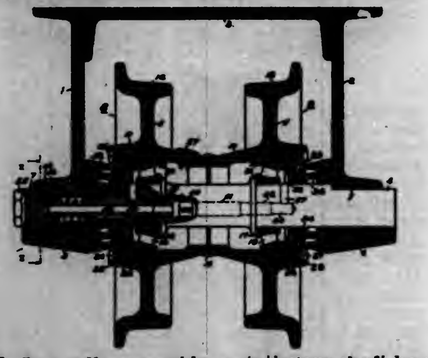
2,283,870
WEAVING MACHINE
Everett B. Moore, Bridgeport, Conn., assignor to Wonder Weave, Incorporated, Bridgeport, Conn., a corporation of Connecticut
Application December 14, 1939, Serial No. 309,176
10 Claims. (Cl. 139—124)

1. In a weaving machine, means for producing sheds in a warp sheet; a filling needle; a tubular support for mounting the filling needle; means for urging the needle to a normal position on the support; and flexible means within the support for moving the needle disposed therearound



against the urging means to carry the needle transversely of the warp through a shed therein and for returning the needle to its normal position whereby a loop of filling material is formed in each shed.

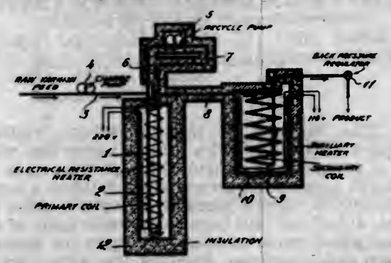
2,283,871
BEARING
Emil F. Norelius, Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application November 29, 1939, Serial No. 306,622
15 Claims. (Cl. 308—189)



3. In a roller assembly, a stationary shaft having an axially extending hollow portion and an axial end opening therefor, a roller having a wall extending axially of said shaft and surrounding said hollow portion thereof in radially spaced relation to the outer surface of said shaft, bearing means within said roller supportingly connecting said shaft and roller for relative rotation about the axis of said shaft, closure means for the space between said shaft and roller at opposite sides, respectively, of said bearing means to provide a flooding chamber for said bearing means within said roller, said shaft having a first aperture remote from said axial end opening thereof, connecting the interior space of said hollow shaft portion with said flooding chamber, and a second aperture spaced from said end opening and first aperture axially of said shaft and connecting said interior space of said hollow shaft portion with said flooding chamber, means including

a tubular member within said hollow shaft portion for partitioning said interior space thereof into two channels communicating, respectively, with said apertures, and a plug for closing said axial end opening of said shaft, said tubular member having an end portion within said hollow shaft portion adjacent to said axial end opening thereof for coupling with a lubricant feeding nozzle insertable into said hollow shaft portion through said axial end opening thereof after removal of said plug.

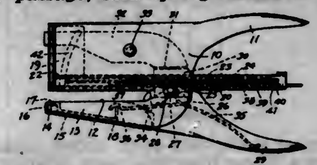
2,283,872
VARNISH MANUFACTURE
Malcolm F. Pratt, Woodbury, N. J., and Thomas L. Apjohn, Kew Gardens, and John Happel, Brooklyn, N. Y., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application February 25, 1939, Serial No. 258,410
9 Claims. (Cl. 260—19)



1. A continuous process for heat treating film-forming material comprising quick-drying oil whereby the material possesses tendencies to gel when heated in a continuous manner under bodying conditions of temperature and time and in which the material consists essentially of a film-forming substance selected from the group consisting of drying oil and a mixture of drying oil with a resin which comprises maintaining a relatively large quantity of said material at a non-gelling temperature which is above the maximum temperature at which the untreated material will gel from heat, maintaining all portions of said large quantity of material above said maximum temperature and in a well agitated state, continuously adding a relatively small quantity of said material to be treated to said relatively large quantity in a sufficiently low ratio that the added quantity is heated above said maximum temperature at which gelation occurs in less time than is required to gel the material at any temperature from heat, and continuously withdrawing a relatively small quantity of heated material from said relatively large quantity in such ratio and under such conditions that heated material remains at a temperature above said maximum temperature long enough to remove its tendencies to gel under bodying conditions of temperature and time but not long enough to substantially impair its quick-drying property.

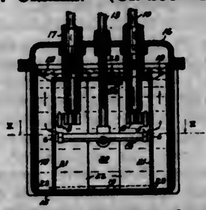
2,283,873
STAPLING DEVICE
Max Vogel, Bridgeport, Conn., assignor to Neva-Clog Products, Inc., Bridgeport, Conn., a corporation of Connecticut
Application May 2, 1940, Serial No. 332,905
7 Claims. (Cl. 1—49)

1. In a stapling device, a staple driving head including a staple driving passage and staple strip supporting means adapted to guide individual staples of a staple strip into said passage, a staple driver engaged in said passage for reciprocatory staple driving and retracting movement, and spring means carried by said staple driving head arranged to exert pressure upon said staple driver during its staple driving movement to press it against the rearward side of said staple driving passage, said spring means in the re-



tracted position of said staple driver having an end portion disposed forwardly of the staple strip supporting means and including a substantially vertical part arranged to engage the forward side of the bridge of the foremost staple disposed in the staple driving passage and an inwardly extending lip part arranged to engage the under side of the bridge of said foremost staple.

2,283,874
CIRCUIT BREAKER
Henry V. Nye, West Allis, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application April 12, 1935, Serial No. 15,999
7 Claims. (Cl. 200—150)

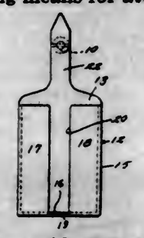


1. An electric circuit breaker of the fluid-break type comprising a casing partly filled with an insulating liquid, relatively movable contact structure immersed in said liquid including a pair of stationary contacts having arcing portions and a movable bridging member arranged to form simultaneously two similar breaks in series, and an insulating baffle disposed beneath the level of said liquid, said baffle being substantially continuous between said stationary contacts so as to have a confining effect on the oil body beneath the same and terminating at the arcing portions of said contacts for forming with each of the corresponding side walls of said casing similar pressure relief passages immediately opposite said stationary contacts for the direct escape of gas formed at said breaks upon opening of the circuit.

2,283,875
SOAP HOLDER
John R. Mathias, Washington, D. C.
Application April 8, 1941, Serial No. 387,501
3 Claims. (Cl. 45—28)

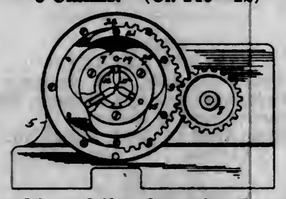
1. In a device of the class described a combined soap container and valve operating lever, comprising a one piece body having a back wall, side walls, a bottom wall, and a pair of front walls, said bottom wall having a cutout therein, said front walls being spaced apart laterally to form a passageway therebetween, said cutout in said bottom wall correlated with said passage-

way to form an open end for the latter, said back wall having a longitudinally extending shank, said shank having means for attaching said body
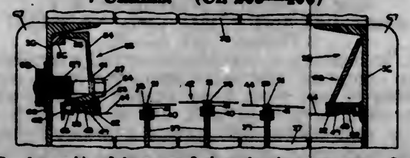


to the valve stem, said open ended passageway providing a finger inserting space to allow access to the container for removal of any contents therefrom.

2,283,876
NUT CRACKING MACHINE
Luis Caballero Mejias, Caracas, Venezuela
Application May 24, 1941, Serial No. 395,084
3 Claims. (Cl. 146—12)



1. A machine of the character described comprising a ring-like frame, an annular cam fitted to turn therein, a face plate secured to one side thereof and having three abutments spaced 120 degrees apart, said abutments projecting into the interior of the cam and being spaced from each other at their ends far enough to leave tooth receiving slideways, three teeth mounted in said slideways having their outer ends rounded for engagement by the cam and having their inner ends of concave formation to thereby conform roughly to the shape of a nut, a washer-like element secured to the abutments and provided with three pins, the teeth being provided with recesses into which said pins project, retracting springs in said recesses bearing against said pins, a gear wheel secured to the cam, a rod mounted to slide transversely of the frame and face plate at the bottom of the frame, a cam driven with said gear wheel and acting upon said rod to impart reciprocation thereto, a feed carriage mounted to move in and out of position between the teeth to thereby present nuts to the action of said teeth and means for imparting movement to said carriage from said rod.

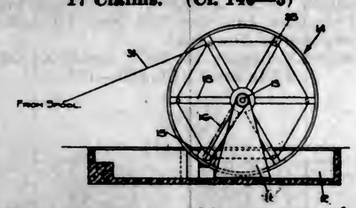
2,283,877
SCREEN
Richard D. Heller, Boise, Idaho
Application October 8, 1938, Serial No. 234,014
7 Claims. (Cl. 209—400)



2. An attaching and tensioning means for a screen cloth comprising a channel member, a ledge formed in one inner corner thereof, and an abutment spaced from the other inner corner and on one of the flanges of said channel.

6. A screen cloth comprising an end bar, parallel wires permanently attached near their ends to said bar while extending therebeyond, a metal strip permanently attached to said bar and wires and extending therebeyond and bent over said bar with the ends of said wires, and metal strips removed from said bar and attaching said wires permanently together.

2,283,878
METHOD FOR MAKING SCREEN CLOTH
Richard D. Heller, Boise, Idaho
Application July 19, 1940, Serial No. 346,342
17 Claims. (Cl. 140—3)



1. The method of making screen cloth of parallel strands of wire which comprises winding a plurality of convolutions of wire on a reel to form a panel of screen cloth having a length sufficient to form a plurality of screen cloth sections, attaching end bars to opposite ends of said panel which form ultimate end bars for separate screen cloth sections, severing the wire convolutions between said end bars, removing the panel of screen cloth from said reel, thereafter tensioning said panel of screen cloth, attaching additional end bars and cross strips thereto to form screen cloth sections, and severing the wires between said additional end bars.

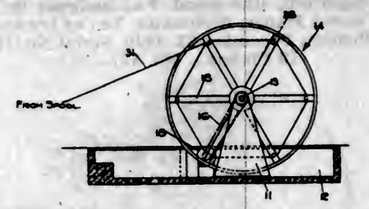
2,283,879
APPARATUS FOR MAKING SCREEN CLOTH
Richard D. Heller, Columbus, Ohio
Original application July 19, 1940, Serial No. 346,342. Divided and this application April 25, 1941, Serial No. 390,385
20 Claims. (Cl. 242—114)



1. In apparatus of the class described, the combination with a screen cloth winding reel comprising a rotor, of a platform thereon adapted to receive a pair of end bar attaching members extending parallel with the axis of rotation of said rotor, and mechanism for adjusting said end bar attaching means relative to said platform.

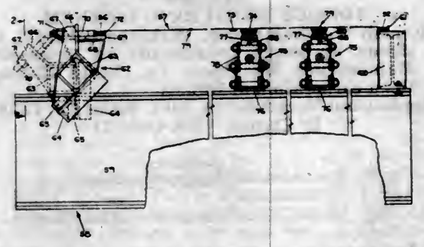
2,283,880
APPARATUS FOR MAKING SCREEN CLOTH
Richard D. Heller, Columbus, Ohio
Original application July 19, 1940, Serial No. 346,342. Divided and this application April 8, 1941, Serial No. 387,457
23 Claims. (Cl. 140—92.2)

1. In mechanism for attaching a connecting bar to a screen cloth panel, the combination with a support, of a channel bar mounted on said support, strips at the edges of said channel bar



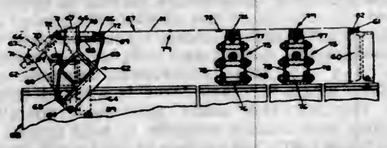
in position to engage the wires of said screen cloth panel, and means for adjusting said channel bar relative to said support to press said strips against the wires.

2,283,881
APPARATUS FOR MAKING SCREEN CLOTH
Richard D. Heller, Columbus, Ohio
Original application July 19, 1940, Serial No. 346,342. Divided and this application April 25, 1941, Serial No. 390,386
10 Claims. (Cl. 140—7)



1. Mechanism for attaching an intermediate connecting strip to a screen cloth, comprising the combination with supporting mechanism for the end bars of the screen cloth, of a support for the intermediate strip, means for placing the wires of the screen cloth under tension, and means acting on said support to press the intermediate strip against said wires preparatory to securing said strip to said wires.

2,283,882
APPARATUS FOR MAKING SCREEN CLOTH
Richard D. Heller, Columbus, Ohio
Application November 25, 1941, Serial No. 420,389
21 Claims. (Cl. 140—3)



1. In mechanism for securing a connecting strip to a wire screen, the combination with a channel, of a heating element carried thereby, a tray mounted on said heating element, a layer of asbestos at the bottom of said tray, a hot plate in said tray on top of said layer of asbestos, a parallel wire cross-strip on said hot plate, and lifting mechanism extending through the bottom of said channel into engagement of said heating element to lift the latter and press the cross-strip on said hot plate against the wires of the screen during the soldering operation.

2,283,883
METHOD OF PREPARING OLIGODYNAMIC FILTERS
Ernesto Mario Comconi, Milan, Italy, assignor to "Sacora" Soc. An. Commercio Olii Rappresentanze Autotrasporti, Milan, Italy
Application June 21, 1939, Serial No. 280,425
In Italy July 27, 1938
3 Claims. (Cl. 210—205)



1. Process of manufacturing a filter of fine porous material impregnated on all parts and throughout all pores with oligodynamic silver comprising forming a body of the fine porous material of a desired shape, impregnating said body with a solution of silver nitrate, allowing the impregnated body to season to ensure penetration of the solution throughout the body, reducing the silver by contacting the nitrate with formaldehyde gas whereby the silver adheres securely and completely to all parts of the body.

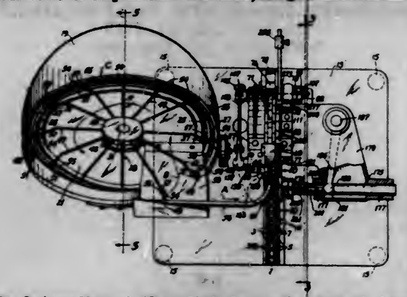
2,283,884
PURIFICATION OF METAL HALIDE FLUXES
Charles E. Nelson, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application April 14, 1941, Serial No. 388,499
7 Claims. (Cl. 75—93)

1. In a method of treating a molten iron-contaminated metal halide metallurgical flux essentially comprising magnesium chloride to remove the iron to a concentration well below 0.008 per cent by weight, the steps which comprise heating the molten flux out of contact with any iron-containing surface to a temperature above 650° C. and mixing therewith metallic magnesium containing less than 0.005 per cent by weight of iron, whereby iron impurities in the flux become associated with the added magnesium, and thereafter separating the magnesium and associated iron from the flux.

2,283,885
AUTOMATIC TESTING GAUGE
August F. Tocike, Velda Village, and Peter J. Wenta, Brentwood, Mo., assignors to Jackes-Evans Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application February 17, 1941, Serial No. 379,272
27 Claims. (Cl. 209—75)

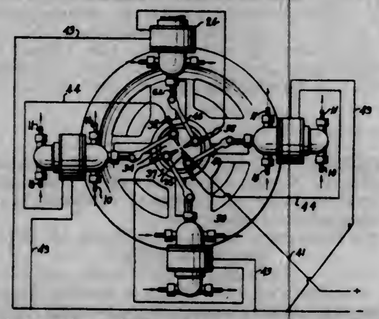
3. In apparatus of the class described, an intermittently movable indexing dial having radial openings for receiving clips, means adapted to insert clips radially into the openings of the dial,

each clip having spaced bands directed outward from the dial and an intermediate band directed inward, means radially movable toward and away from the dial when it is stationary to frictionally engage said bands if they are improperly spaced to remove a clip from the dial, finger means mov-



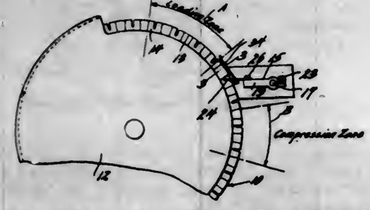
able laterally of the dial for subsequent insertion into said bands, and means for temporarily spreading said fingers under predetermined force and for withdrawing the clip from the dial if it spreads too far but otherwise to leave the clip in the dial.

2,283,886
RECIPROCATING ELECTRIC MOTOR
Victor M. Henkell, Houston, Tex., assignor of one-half to William H. H. Osterday, Harris County, Tex.
Application August 10, 1939, Serial No. 289,338
7 Claims. (Cl. 172—126)



7. Apparatus of the character described comprising a set of electric motors; each of said motors comprising a housing, a field winding about the housing and an armature reciprocable in the housing; a rotatably mounted disc formed of electrical conducting material and having a plurality of inserts therein formed of insulating material; a brush holder formed of insulating material; brushes formed of conducting material mounted on the holder; electrical conductors leading from the brushes through the field windings and connected into a source of electrical energy; an electrical conductor leading from said source to said disc; oscillatory links connected at one end with said armatures and at their other ends to said respective disc inserts; said brushes and discs being relatively positioned so that the brushes will contact alternately with the disc and the corresponding inserts as the disc oscillates, and a yieldable member arranged to be rendered active when the disc is rotated in one direction by the armatures and effective to return the armatures to original position with the switches in contact with the disc and with the corresponding inserts.

2,283,887
TOBACCO FORMING MACHINE AND GUARD THEREFOR
Leo Swinford, Richmond, Va., assignor to Richmond Maury, Richmond, Va., as trustee
Application December 23, 1940, Serial No. 371,458
10 Claims. (Cl. 131—87)



1. In a tobacco forming machine including a revolving turret provided with a plurality of open molds, a stationary guard member extending transversely of the turret and successively covering certain selected molds, spring means urging said guard member toward the molds and means to space the guard member from the molds.

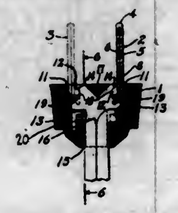
2,283,888
TORQUE MEASURING WRENCH
Herman W. Zimmerman, Highland Park, Ill., assignor, by mesne assignments, to Automotive Maintenance Machinery Co., North Chicago, Ill., a corporation of Illinois
Application November 22, 1937, Serial No. 175,863
38 Claims. (Cl. 265—1)



12. A torque measuring wrench adapted for use with means for indicating the force applied to the work which comprises, a handle member having a grip portion adjacent one end thereof, a work-engaging member pivotally connected with the other end of said handle member, said work engaging member having means through which it may be connected with the work, which means is located substantially on the pivotal axis of said work-engaging member, and a normally straight spring bar carried by said work-engaging member, and extending away from and in substantially radial alignment with the said work-engaging member, said spring bar being positioned between the axis of said pivot and said grip portion, said handle member having means engaging said spring bar at a predetermined distance from the axis of rotation of said work-engaging means and at a point between said work-engaging means and said grip portion to provide a substantially constant moment arm, whereby when a rotary force is applied to said grip member the same will be transmitted through said handle member to said spring bar and through said spring bar to said work-engaging member.

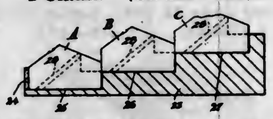
2,283,889
ELECTRICAL CONNECTOR
Charles E. Gilbert, New York, N. Y.
Application January 23, 1941, Serial No. 375,562
8 Claims. (Cl. 173—361)

1. An electrical connector consisting of a one-piece body having a recess closed at one end for a contact element, a contact element consisting of a strip of conducting material folded upon itself to form two legs substantially in contact, means in said body adjacent the open end of said recess to separate the free end of one leg from the other when said other leg is forced into said



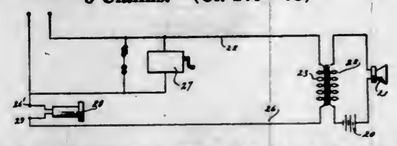
recess and to permit said first-mentioned leg to again move into substantial contact with said other leg when said other leg is fully seated in said recess.

2,283,890
DISPLAY RACK
Joseph Haslun, Yonkers, N. Y.
Application August 29, 1938, Serial No. 227,295
1 Claim. (Cl. 211—128)



For use with a display counter having a series of stepped platforms and an upstanding front wall, a display rack adapted to sit on any one of the platforms, the front wall of the counter being adapted to form a front wall for a rack placed on the foremost platform of the series, said display rack including side walls adapted to rest on a platform of said display counter, an inclined bottom wall between said side walls and connected thereto, a plurality of spaced partitions projecting vertically from the bottom wall and extending from the front to the rear edges thereof, forming a series of parallel and similar compartments between said side walls, a back wall depending from the rear edge of the bottom wall and comprised of an upper and lower vertical wall spaced by a connecting horizontal ledge, the ledge being adapted to be coplanar with the next succeeding platform, and a longitudinal member connected between the end walls and disposed against the upper edges of said partitions to secure the latter in place.

2,283,891
PREVENTION OF INTERFERENCE IN TELEPHONE CIRCUITS
Forrest D. Layne, Oklahoma City, Okla., assignor of one-half to J. E. Piersol and J. Enoch Piersol, Jr., Oklahoma City, Okla.
Application July 7, 1938, Serial No. 217,983
8 Claims. (Cl. 179—78)



1. In a telephonic system, a transmission circuit, an iron cored coil, a portion of the winding constituting the primary thereof connected in series to the transmission line, a receiver connected in parallel with the entire coil whereby this constitutes a secondary in series with the receiver, the iron core of said coil being of reduced inductive effect in the primary portion of the coil, and extending throughout the remaining portion of the coil with fully effective structure.

2,283,892
WATER CLOSET SEAT
Howard C. Leslie, Milton, Mass., assignor to B R E Manufacturing Co., Hyde Park, Mass., a corporation of Massachusetts
Original application September 9, 1938, Serial No. 229,077. Divided and this application October 16, 1940, Serial No. 361,411
3 Claims. (Cl. 4—236)



1. A water closet seat construction comprising a pair of spaced posts permanently anchored in fixed position, said posts having openings at their upper ends, a seat bar having its ends received in said openings, a seat having rigid means providing an open recess extending about said bar, and a spring clip mounted in said recess, said clip embracing said seat bar and providing bearing surfaces for supporting said seat for pivotal movement on said seat bar, the parts being so constructed and arranged that the seat may be quickly removed from and placed about said seat bar.

2,283,893
WATER CLOSET SEAT
Howard C. Leslie, Milton, Mass., assignor to B R E Manufacturing Co., Hyde Park, Mass., a corporation of Massachusetts
Original application September 9, 1938, Serial No. 229,077, now Patent No. 2,240,220, dated April 29, 1941. Divided and this application October 16, 1940, Serial No. 361,412
7 Claims. (Cl. 4—240)

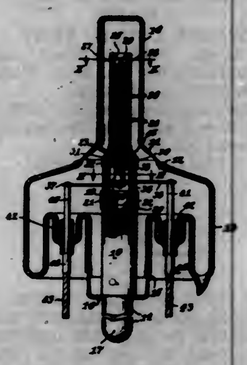


1. A water closet comprising a seat formed at its rear end portion with a transversely extending recess, a fixed shaft mounted in said recess with one end projecting outwardly from said seat, a post having a head formed with a recess in axial alignment with said shaft, a spring-pressed rod slidably mounted in the recess in said head, the inner end of said rod being formed with an opening providing a bearing member which receives the projecting end of the shaft thereby to provide a pivotal support for said seat, and bolt-action means connected with said rod for moving it axially to disengage the shaft and bearing member so as to permit removal of said seat.

2,283,894
ULTRA-HIGH FREQUENCY TUBE
Ilia Emmanuel Mouromtseff, Montclair, and George M. Dinnick, Bloomfield, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Original application November 30, 1938, Serial No. 243,116. Divided and this application February 23, 1940, Serial No. 320,394
8 Claims. (Cl. 250—27.5)

1. An electrode structure comprising two in-

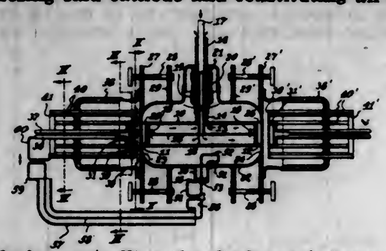
sulators, a bolt and hollow cylinder spacing said insulators, a disc on one side of said insulators connected to said bolt, a disc on said same insu-



lator connected to said hollow cylinder, a plurality of wires forming a cage and having some ends connected to one of said discs and some ends connected to the other disc.

2,283,895
ULTRA HIGH FREQUENCY OSCILLATOR
Ilia E. Mouromtseff, Montclair, and George M. Dinnick, Bloomfield, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 9, 1940, Serial No. 360,267
13 Claims. (Cl. 250—27.5)

1. An electric discharge device comprising anode means including a hollow-body resonator, a cathode, and another hollow-body resonator enclosing said cathode and constituting an elec-



trode for controlling the discharge between said anode and cathode.

2,283,896
CATHODE STRUCTURE
Ilia Emmanuel Mouromtseff, Montclair, and George M. Dinnick, Bloomfield, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 24, 1941, Serial No. 399,454
5 Claims. (Cl. 250—27.5)

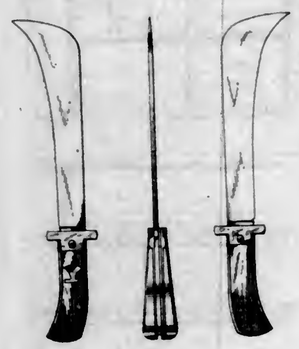


1. A cathode comprising a metal ribbon folded into a plurality of planes and means increasing the electrical resistance of the metal extending between folds thereof in one of said planes to exceed the resistance of the metal comprising said folds.

DESIGNS

MAY 19, 1942

132,419
DESIGN FOR A BRUSH KNIFE
Richard D. Brown, Olean, N. Y.
Application February 16, 1942, Serial No. 105,837
Term of patent 14 years



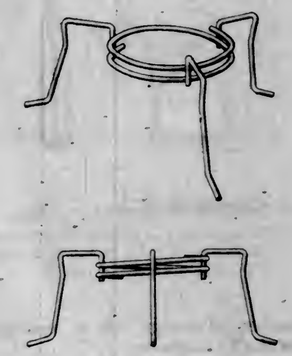
The ornamental design for a brush knife, as shown.

132,420
DESIGN FOR A DRAFTSMAN'S ERASER
Benjamin W. Hanle, Elizabeth, N. J., assignor to Eagle Pencil Company, New York, N. Y., a corporation of Delaware
Application June 21, 1941, Serial No. 101,609
Term of patent 14 years



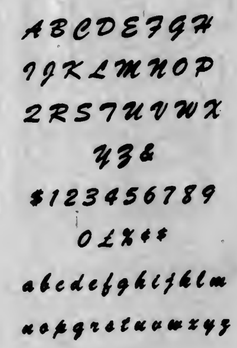
The ornamental design for a draftsman's eraser, substantially as shown.

132,421
DESIGN FOR A COMBINATION SUPPORT AND STANDARD FOR CHICK FOUNT BASE AND RECEPTACLE
William L. Krapp, Toledo, Ohio, assignor to The National Ideal Company, Toledo, Ohio, a corporation of Ohio
Application February 25, 1942, Serial No. 105,974
Term of patent 7 years



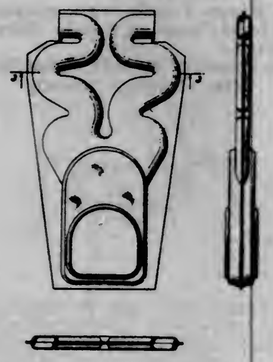
The ornamental design for a combination support and standard for chick fount base and receptacle, substantially as shown.

132,422
DESIGN FOR A FONT OF TYPE
Robert E. Smith, New York, N. Y., assignor to American Type Founders, Incorporated, Elizabeth, N. J., a corporation of New Jersey
Application March 20, 1942, Serial No. 106,261
Term of patent 14 years



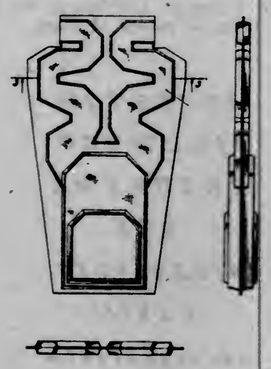
The ornamental design for a font of type, as shown.

132,423
DESIGN FOR A HEAT EXCHANGE UNIT
Frederick L. Anderson and John M. Baesa, San Francisco, Calif.
Application July 23, 1940, Serial No. 93,876
Term of patent 14 years



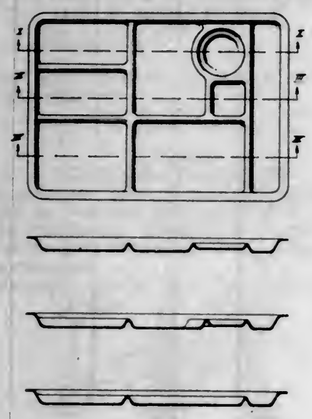
The ornamental design for a heat exchange unit, substantially as shown.

132,424
DESIGN FOR A HEAT EXCHANGE UNIT
Frederick L. Anderson and John M. Baesa, San Francisco, Calif.
Application July 23, 1940, Serial No. 93,877
Term of patent 14 years



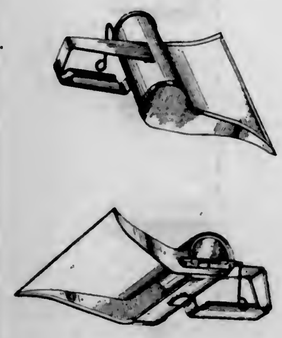
The ornamental design for a heat exchange unit, substantially as shown.

132,425
DESIGN FOR A FOOD TRAY OR SIMILAR ARTICLE
Don H. Erickson, Du Bois, Pa.
Application March 20, 1941, Serial No. 99,748
Term of patent 7 years



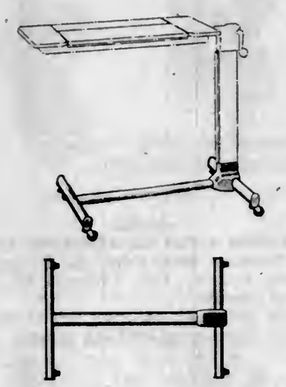
The ornamental design for a food tray or similar article, substantially as shown.

132,426
DESIGN FOR A DUSTPAN
Edwin Morrison George, Republic, Wash.
Application February 10, 1942, Serial No. 105,744
Term of patent 3½ years



The ornamental design for a dustpan, as shown.

132,427
DESIGN FOR AN OVER-BED TABLE
William A. Hillenbrand, Batesville, Ind., assignor to Hill Rom Company, Inc., Batesville, Ind., a corporation of Indiana
Application September 8, 1941, Serial No. 103,213
Term of patent 14 years



The ornamental design for an over-bed table, substantially as shown and described.

132,428
DESIGN FOR A DEVICE FOR BREWING BEVERAGES
Clarence Karstadt, Glen Ellyn, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application October 20, 1941, Serial No. 103,829
Term of patent 7 years



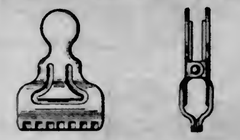
The ornamental design for a device for brewing beverages, substantially as shown.

132,429
DESIGN FOR A NECKTIE
Albert J. McElfresh, Anderson, Ind.
Application December 15, 1941, Serial No. 104,650
Term of patent 7 years



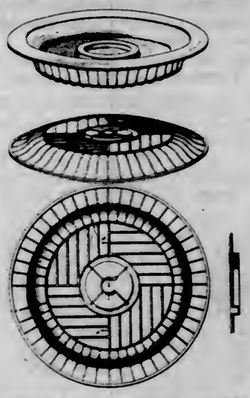
The ornamental design for a necktie, as shown.

132,430
DESIGN FOR A SPRING CLIP
Solomon Rosenberg, Los Angeles, Calif.
Application October 14, 1941, Serial No. 103,757
Term of patent 14 years



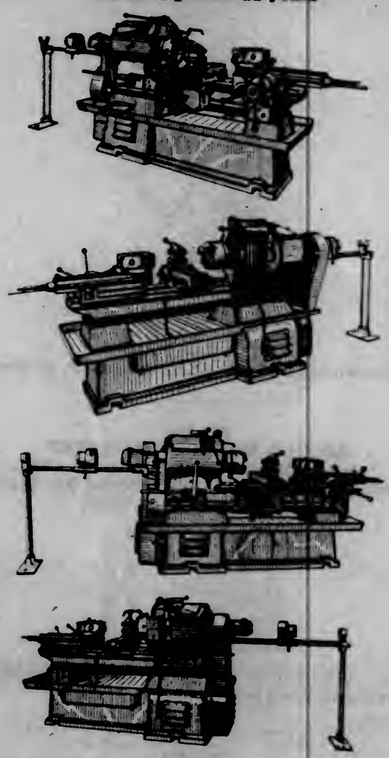
The ornamental design for a spring clip, as shown and described.

132,431
DESIGN FOR A MOLDED FIBER COMBINATION PLATE
Charles J. Chaplin, South Portland, Maine, assignor to Chaplin Corporation, South Portland, Maine, a corporation of Maine
Application September 23, 1940, Serial No. 95,306
Term of patent 14 years



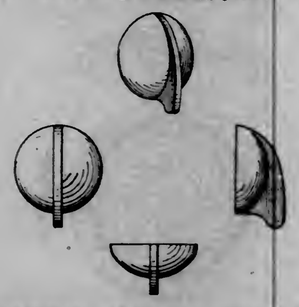
The ornamental design for a molded fiber combination plate, as shown.

132,432
DESIGN FOR A COMBINED LATHE AND STOCK SUPPORT
William K. Millholland, Indianapolis, Ind.
Application August 14, 1941, Serial No. 102,841
Term of patent 14 years



The ornamental design for a combined lathe and stock-support, as shown.

132,433
DESIGN FOR A KNOB FOR STOVES OR THE LIKE
Elmer D. Pellegrin, Woodstock, Ill., assignor to Geo D. Roper Corporation, Rockford, Ill., a corporation of Illinois
Application January 2, 1941, Serial No. 97,773
Term of patent 3½ years



The ornamental design for a knob for stoves or the like, substantially as shown.

132,434
DESIGN FOR A PIN OR SIMILAR ARTICLE
Florence Nathan, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill., a corporation of Illinois
Application February 14, 1942, Serial No. 105,807
Term of patent 3½ years



The ornamental design for a pin or similar article, substantially as shown.

132,435
DESIGN FOR A PIN OR SIMILAR ARTICLE
Florence Nathan, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill., a corporation of Illinois
Application February 14, 1942, Serial No. 105,808
Term of patent 3½ years



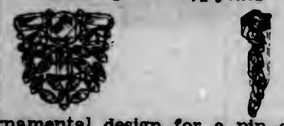
The ornamental design for a pin or similar article, substantially as shown.

132,436
DESIGN FOR A PIN OR SIMILAR ARTICLE
Florence Nathan, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill., a corporation of Illinois
Application February 14, 1942, Serial No. 105,809
Term of patent 3½ years



The ornamental design for a pin or similar article, substantially as shown.

132,437
DESIGN FOR A PIN OR SIMILAR ARTICLE
Florence Nathan, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill., a corporation of Illinois
Application February 14, 1942, Serial No. 105,810
Term of patent 3½ years



The ornamental design for a pin or similar article, substantially as shown.

132,438
DESIGN FOR A PIN OR SIMILAR ARTICLE
Florence Nathan, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill., a corporation of Illinois
Application February 14, 1942, Serial No. 105,811
Term of patent 3½ years

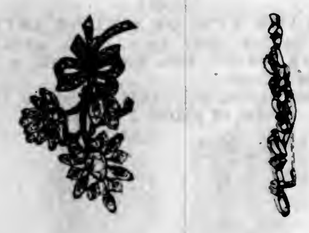


The ornamental design for a pin or similar article, substantially as shown.

132,439
DESIGN FOR A PIN OR SIMILAR ARTICLE
Florence Nathan, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill., a corporation of Illinois
Application February 14, 1942, Serial No. 105,812
Term of patent 3½ years

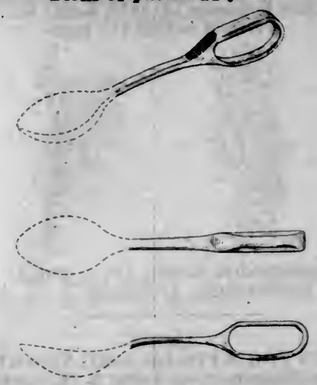
The ornamental design for a pin or similar article, substantially as shown.

132,440
DESIGN FOR A PIN OR SIMILAR ARTICLE
Florence Nathan, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill., a corporation of Illinois
Application February 14, 1942, Serial No. 105,813
Term of patent 3½ years



The ornamental design for a pin or similar article, substantially as shown.

132,441
DESIGN FOR A SPOON OR SIMILAR ARTICLE
Marion E. Graves, Long Beach, Calif.
Application December 23, 1941, Serial No. 104,811
Term of patent 14 years



The ornamental design for a spoon or similar article, as shown and described.

132,442
DESIGN FOR AN EYE SHIELD
Hazael E. Montgomery, Springfield, Ill.
Application November 18, 1940, Serial No. 96,658
Term of patent 3½ years



The ornamental design for an eye shield, as shown and described.

132,443
DESIGN FOR A PIN OR SIMILAR ARTICLE
Florence Nathan, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill., a corporation of Illinois
Application February 14, 1942, Serial No. 105,814
Term of patent 3½ years



The ornamental design for a pin or similar article, substantially as shown.

132,444
DESIGN FOR A PIN OR SIMILAR ARTICLE
Florence Nathan, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill., a corporation of Illinois
Application February 14, 1942, Serial No. 105,815
Term of patent 3½ years



The ornamental design for a pin or similar article, substantially as shown.

132,445
DESIGN FOR A PIN OR SIMILAR ARTICLE
Florence Nathan, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill., a corporation of Illinois
Application February 14, 1942, Serial No. 105,816
Term of patent 3½ years



The ornamental design for a pin or similar article, substantially as shown.

132,446
DESIGN FOR A PIN OR SIMILAR ARTICLE
Florence Nathan, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill., a corporation of Illinois
Application February 21, 1942, Serial No. 105,933
Term of patent 3½ years



The ornamental design for a pin or similar article, substantially as shown.

132,447
DESIGN FOR A PIN OR SIMILAR ARTICLE
Florence Nathan, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill., a corporation of Illinois
Application February 21, 1942, Serial No. 105,934
Term of patent 3½ years



The ornamental design for a pin or similar article, substantially as shown.

132,448
DESIGN FOR A PIN OR SIMILAR ARTICLE
Florence Nathan, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill., a corporation of Illinois
Application February 21, 1942, Serial No. 105,935
Term of patent 3½ years



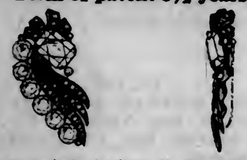
The ornamental design for a pin or similar article, substantially as shown.

132,449
DESIGN FOR A PIN OR SIMILAR ARTICLE
Florence Nathan, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill., a corporation of Illinois
Application February 21, 1942, Serial No. 105,936
Term of patent 3½ years



The ornamental design for a pin or similar article, substantially as shown.

132,450
DESIGN FOR A PIN OR SIMILAR ARTICLE
Florence Nathan, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill., a corporation of Illinois
Application February 21, 1942, Serial No. 105,937
Term of patent 3½ years



The ornamental design for a pin or similar article, substantially as shown.

132,451
DESIGN FOR A PIN OR SIMILAR ARTICLE
Florence Nathan, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill., a corporation of Illinois
Application February 21, 1942, Serial No. 105,938
Term of patent 3½ years



The ornamental design for a pin or similar article, substantially as shown.

132,452
DESIGN FOR A PIN OR SIMILAR ARTICLE
Florence Nathan, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill., a corporation of Illinois
Application February 21, 1942, Serial No. 105,939
Term of patent 3½ years



The ornamental design for a pin or similar article, substantially as shown.

132,453
DESIGN FOR A PIN OR SIMILAR ARTICLE
Florence Nathan, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill., a corporation of Illinois
Application February 21, 1942, Serial No. 105,940
Term of patent 3½ years



The ornamental design for a pin or similar article, substantially as shown.

132,454
DESIGN FOR A PIN OR SIMILAR ARTICLE
Florence Nathan, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill., a corporation of Illinois
Application February 21, 1942, Serial No. 105,941
Term of patent 3½ years



The ornamental design for a pin or similar article, substantially as shown.

132,455
DESIGN FOR A PIN OR SIMILAR ARTICLE
Florence Nathan, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill., a corporation of Illinois
Application February 21, 1942, Serial No. 105,942
Term of patent 3½ years



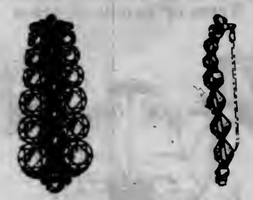
The ornamental design for a pin or similar article, substantially as shown.

132,456
DESIGN FOR A PIN OR SIMILAR ARTICLE
Florence Nathan, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill., a corporation of Illinois
Application February 21, 1942, Serial No. 105,943
Term of patent 3½ years



The ornamental design for a pin or similar article, substantially as shown.

132,457
DESIGN FOR A PIN OR SIMILAR ARTICLE
Florence Nathan, New York, N. Y., assignor to Eisenberg Jewelry, Inc., Chicago, Ill., a corporation of Illinois
Application February 21, 1942, Serial No. 105,944
Term of patent 3½ years

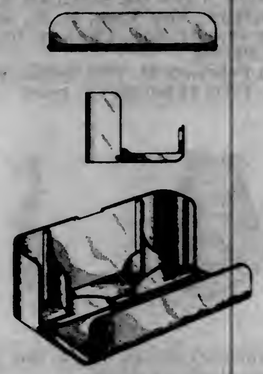


The ornamental design for a pin or similar article, substantially as shown.

132,458
DESIGN FOR A COSMETIC CASE
Jean Otis Reinecke, Oak Park, Ill., assignor to Louis S. Reller, Chicago, Ill.
Application November 21, 1941, Serial No. 104,236
Term of patent 14 years

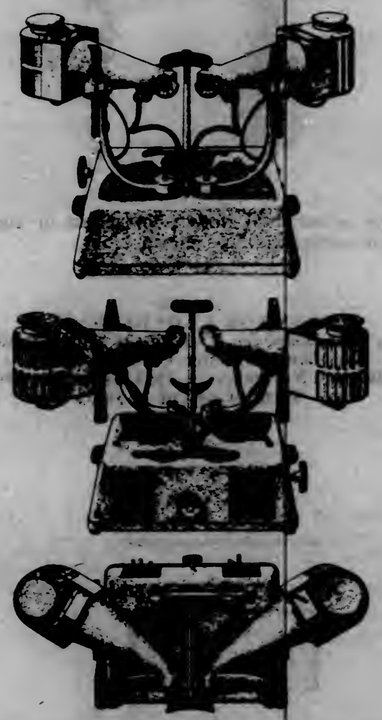


132,458—Continued



The ornamental design for a cosmetics case, as shown and described.

132,459
DESIGN FOR AN ORTHOPTIC INSTRUMENT OR ARTICLE OF SIMILAR NATURE
Le Roy Wottring, Altadena, Calif., assignor to The Wottring Instrument Company, Amherst, Ohio, a corporation of Ohio
Application February 19, 1942, Serial No. 105,917
Term of patent 14 years



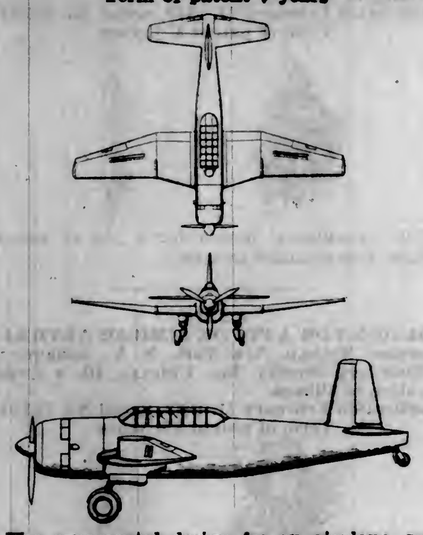
The ornamental design for an orthoptic instrument or article of similar nature, substantially as shown.

132,460
DESIGN FOR A ROSARY DECADE RING
Capello H. Damrell, Chicago, Ill., assignor of one-half to George T. Bullen, Chicago, Ill.
Application January 30, 1942, Serial No. 105,531
Term of patent 7 years



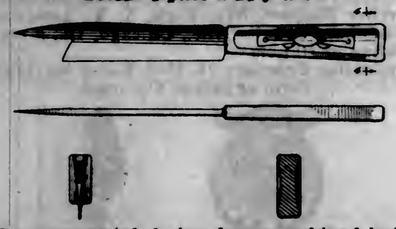
The ornamental design for a rosary decade ring, as shown.

132,461
DESIGN FOR AN AIRPLANE
Alfred J. Klose, Inglewood, Calif., assignor to Vultee Aircraft, Inc., a corporation of Delaware
Application May 5, 1941, Serial No. 100,788
Term of patent 7 years



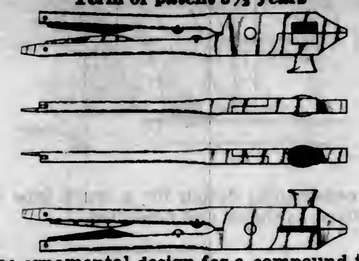
The ornamental design for an airplane, substantially as shown.

132,462
DESIGN FOR A COMBINED BUTTER KNIFE AND BUTTER PICK OR SIMILAR ARTICLE
Edwin Reynolds, Vineland, N. J.
Application December 10, 1941, Serial No. 104,554
Term of patent 14 years



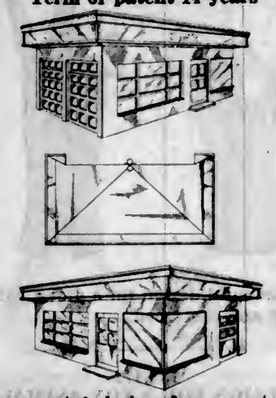
The ornamental design for a combined butter knife and butter pick or similar article, substantially as shown and described.

132,463
DESIGN FOR A COMPOUND TOOL
Steven Damoff, Hammond, Ind.
Application November 27, 1941, Serial No. 104,354
Term of patent 3½ years



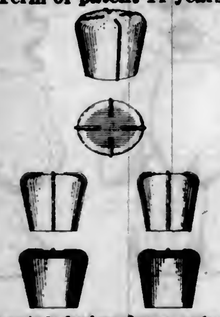
The ornamental design for a compound tool, as shown.

132,464
DESIGN FOR A PORTABLE STRUCTURE
Louis Edelman, East Cleveland, Ohio
Application January 13, 1942, Serial No. 105,172
Term of patent 14 years



The ornamental design for a portable structure, as shown and described.

132,465
DESIGN FOR A GRIP FOR HAMMER HANDLES AND LIKE ARTICLES
Herbert Harvey, Pekin, Ill., assignor to Chester G. Hellyer, Pekin, Ill.
Application May 31, 1941, Serial No. 101,244
Term of patent 14 years



The ornamental design for a grip for hammer handles and like articles, as shown and described.

132,466
DESIGN FOR A BADGE
John Tazewell Robertson, Millington, N. J.
Application December 31, 1941, Serial No. 104,942
Term of patent 7 years



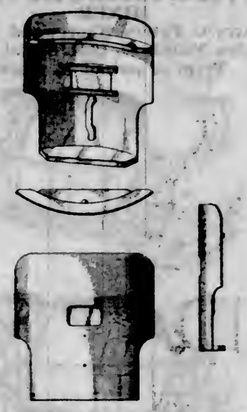
The ornamental design for a badge, as shown.

132,467
DESIGN FOR A CONFECTION
Nicholas S. Sabatino, Dayton, Ohio
Application September 22, 1941, Serial No. 103,445
Term of patent 3½ years



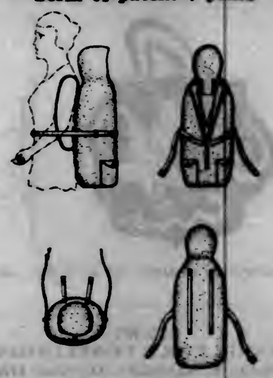
The ornamental design for a confection, substantially as shown.

132,468
DESIGN FOR A BOMB SHIELD
Martin J. Leuer, San Francisco, Calif.
Application February 25, 1942, Serial No. 105,979
Term of patent 3½ years



The ornamental design for a bomb shield, substantially as shown.

132,469
DESIGN FOR A KNAPSACK BUNTING
Madeleine L. Murphy, Bronxville, N. Y.
Application March 18, 1942, Serial No. 106,233
Term of patent 7 years



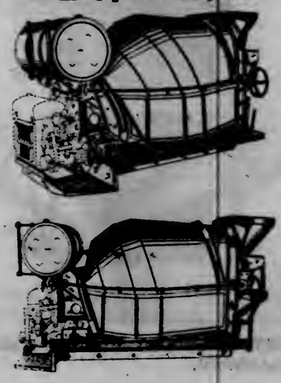
The ornamental design for a knapsack bunting, as shown.

132,470
DESIGN FOR A BADGE OR THE LIKE
George W. Naylor, Rutherford, N. J.
Application March 18, 1942, Serial No. 106,232
Term of patent 3½ years

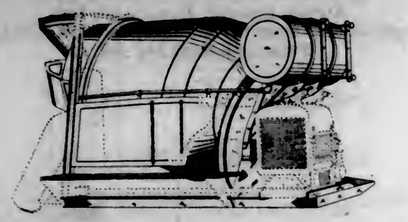


The ornamental design for a badge or the like, substantially as shown.

132,471
DESIGN FOR A TRUCK TYPE CONCRETE MIXER
Harry C. Peters, Shorewood, Wis.
Application March 10, 1941, Serial No. 99,481
Term of patent 14 years



132,471—Continued



The ornamental design for a truck type concrete mixer, as shown and described.

132,472
DESIGN FOR A GLOVE
Ernest R. Schraps, New York, N. Y.
Application January 30, 1942, Serial No. 105,521
Term of patent 3½ years



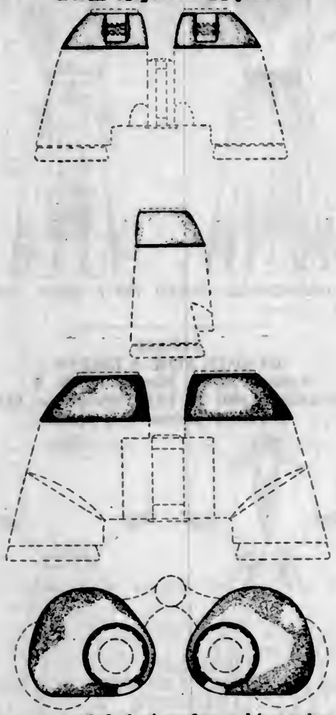
The ornamental design for a glove, substantially as shown and described.

132,473
DESIGN FOR A TOY ANIMAL
Mieczyslaw Szrajer, Forest Hills, N. Y., assignor to Ideal Novelty & Toy Co., Long Island City, N. Y., a corporation of New York
Application March 5, 1942, Serial No. 106,087
Term of patent 7 years



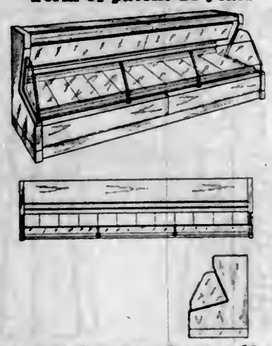
The ornamental design for a toy animal, substantially as shown.

132,474
DESIGN FOR A BINOCULAR OR THE LIKE
William Bausch, Rochester, and James V. Vevirit, Lewiston, N. Y., assignors to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application February 27, 1942, Serial No. 106,016
Term of patent 14 years



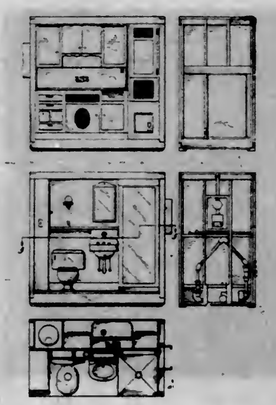
The ornamental design for a binocular or the like, substantially as shown and described.

132,475
DESIGN FOR A SELF-SERVICE DISPLAY CASE
Joseph Stuart Hill, Hillwood Lakes, N. J., assignor to C. V. Hill & Company, Incorporated, Trenton, N. J., a corporation of New Jersey
Application October 30, 1941, Serial No. 103,959
Term of patent 14 years



The ornamental design for a self service display case, as shown.

132,476
DESIGN FOR A COMBINATION KITCHEN AND BATHROOM UTILITY UNIT
Hoyt A. Martin, East Pasadena, Calif.
Application November 4, 1941, Serial No. 104,016
Term of patent 14 years



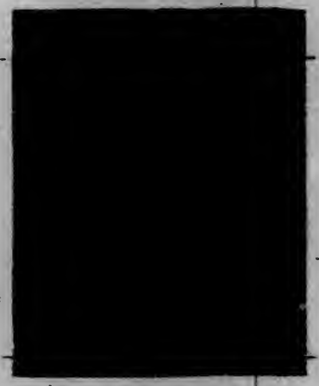
The ornamental design for a combination kitchen and bathroom utility unit, as shown.

132,477
DESIGN FOR A FINGER RING
Meryl L. Stoddard, Davison, Mich., assignor of one-half to Valentine W. Krenzer, Ann Arbor, Mich.
Application July 23, 1941, Serial No. 102,399
Term of patent 3½ years



The ornamental design for a finger ring, as shown and described.

132,478
DESIGN FOR A LEATHER OR SIMILAR ARTICLE
Leonard L. Friedman, New York, N. Y.
Application March 30, 1942, Serial No. 106,390
Term of patent 7 years



The ornamental design for a leather or similar article, substantially as shown and described.

132,479
DESIGN FOR A DRESS
Albert Rachman, New York, N. Y.
Application April 27, 1942, Serial No. 106,712
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,480
DESIGN FOR A DRESS
Samuel Zahn, New York, N. Y.
Application April 22, 1942, Serial No. 106,662
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,481
DESIGN FOR A DRESS
Samuel Zahn, New York, N. Y.
Application April 22, 1942, Serial No. 106,663
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,482
DESIGN FOR A DRESS
Samuel Zahn, New York, N. Y.
Application April 22, 1942, Serial No. 106,665
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,483
DESIGN FOR A DRESS
Louis Adler, New York, N. Y.
Application April 27, 1942, Serial No. 106,716
Term of patent 3½ years



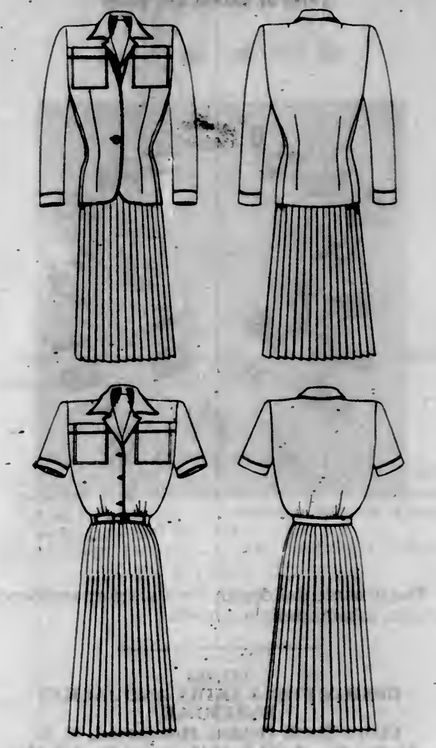
The ornamental design for a dress, substantially as shown.

132,484
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Lydia Brauné, Glen Head, N. Y.
Application April 25, 1942, Serial No. 106,693
Term of patent 3½ years



The ornamental design for a textile fabric or similar article, as shown.

132,485
DESIGN FOR A DRESS ENSEMBLE
Bonnie Cashin, New York, N. Y.
Application April 22, 1942, Serial No. 106,666
Term of patent 3½ years



The ornamental design for a dress ensemble, substantially as shown.

132,486
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application April 22, 1942, Serial No. 106,667
Term of patent 3½ years



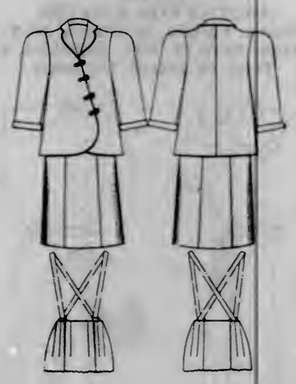
The ornamental design for a dress, substantially as shown.

132,487
DESIGN FOR A SCARF OR ANALOGOUS ARTICLE
Desider Friedman, New York, N. Y.
Application March 31, 1942, Serial No. 106,407
Term of patent 3½ years



The ornamental design for a scarf or analogous article, substantially as shown.

132,488
DESIGN FOR A SKIRT AND JACKET ENSEMBLE
Claire Smith Golden, Hempstead, N. Y.
Application April 3, 1942, Serial No. 106,451
Term of patent 3½ years



The ornamental design for a skirt and jacket ensemble, substantially as shown.

132,489
DESIGN FOR A DRESS
Beatrice Green, New York, N. Y.
Application April 28, 1942, Serial No. 106,729
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,490
DESIGN FOR A DRESS
Beatrice Green, New York, N. Y.
Application April 28, 1942, Serial No. 106,730
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,491
DESIGN FOR A LACE TABLECLOTH
Howard Hooven, Edison, Pa., assignor to Quaker Lace Company Incorporated, Philadelphia, Pa.
Application April 24, 1942, Serial No. 106,691
Term of patent 7 years



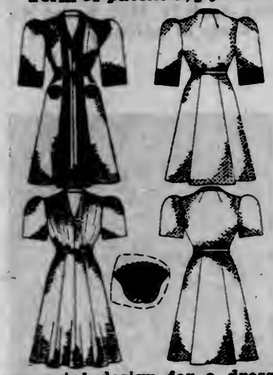
The ornamental design for a lace tablecloth, substantially as shown and described.

132,492
DESIGN FOR A TEXTILE FABRIC
William Leavy, Jr., New York, N. Y.
Application April 15, 1942, Serial No. 106,580
Term of patent 3½ years



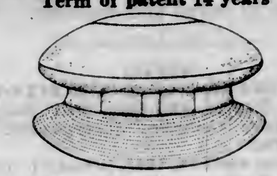
The ornamental design for a textile fabric, substantially as shown and described.

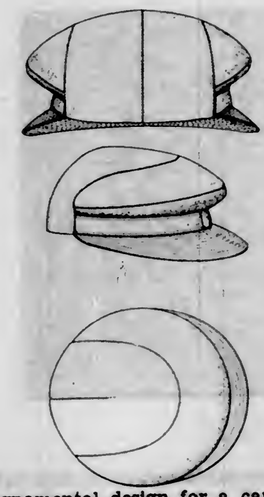
132,493
DESIGN FOR A DRESS ENSEMBLE
William Maidman, New York, N. Y.
Application April 21, 1942, Serial No. 106,648
Term of patent 3½ years



The ornamental design for a dress ensemble, substantially as shown and described.

132,494
DESIGN FOR A CAP
Paul M. Maxwell, Manhasset, N. Y., and Wilhelmina J. Russy, Jersey City, N. J., assignors to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware
Application February 17, 1942, Serial No. 105,852
Term of patent 14 years





The ornamental design for a cap, as shown.

132,495
DESIGN FOR A LACE TABLECLOTH
Walter C. Miller, Abington, Pa., assignor to Quaker Lace Company Incorporated, Philadelphia, Pa.
Application April 24, 1942, Serial No. 106,689
Term of patent 7 years



The ornamental design for a lace tablecloth, substantially as shown and described.

132,496
DESIGN FOR A LACE TABLECLOTH
Walter C. Miller, Abington, Pa., assignor to Quaker Lace Company Incorporated, Philadelphia, Pa.
Application April 24, 1942, Serial No. 106,690
Term of patent 7 years



The ornamental design for a lace tablecloth, substantially as shown and described.

132,497
DESIGN FOR A DRESS ENSEMBLE
Jacob Moskowitz, New York, N. Y.
Application January 29, 1942, Serial No. 105,505
Term of patent 3½ years



The ornamental design for a dress ensemble, substantially as shown.

132,498
DESIGN FOR A DRESS
Frances Troy Stix, New York, N. Y.
Application April 22, 1942, Serial No. 106,661
Term of patent 3½ years



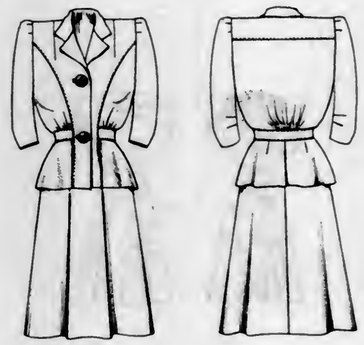
The ornamental design for a dress, substantially as shown.

132,499
DESIGN FOR A DRESS
Mary E. Tetreault, New York, N. Y.
Application April 28, 1942, Serial No. 106,731
Term of patent 3½ years



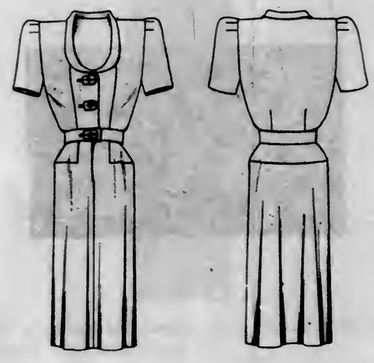
The ornamental design for a dress, substantially as shown.

132,500
DESIGN FOR A DRESS
Joset Walker, New York, N. Y.
Application April 22, 1942, Serial No. 106,668
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,501
DESIGN FOR A DRESS
Joset Walker, New York, N. Y.
Application April 22, 1942, Serial No. 106,669
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,502
DESIGN FOR A DRESS
Joset Walker, New York, N. Y.
Application April 27, 1942, Serial No. 106,711
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,503
DESIGN FOR A LACE
Jack Wiener, New York, N. Y.
Application April 21, 1942, Serial No. 106,650
Term of patent 3½ years



The ornamental design for a lace, substantially as shown and described.

132,504
DESIGN FOR A LACE TABLECLOTH
William Wolf, Philadelphia, Pa., assignor to Quaker Lace Company Incorporated, Philadelphia, Pa.
Application April 24, 1942, Serial No. 106,692
Term of patent 7 years



The ornamental design for a lace tablecloth, substantially as shown and described.

132,505
DESIGN FOR A DRESS
Samuel Zahn, New York, N. Y.
Application April 22, 1942, Serial No. 106,664
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,506
DESIGN FOR A DRESS
Samuel Zahn, New York, N. Y.
Application April 27, 1942, Serial No. 106,717
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,507
DESIGN FOR A LACE
Isaac Zendman, Jr., New York, N. Y.
Application April 25, 1942, Serial No. 106,704
Term of patent 3½ years



The ornamental design for a lace, substantially as shown and described.

132,508
DESIGN FOR A LACE
Isaac Zendman, Jr., New York, N. Y.
Application April 25, 1942, Serial No. 106,706
Term of patent 3½ years



The ornamental design for a lace, substantially as shown and described.

THE

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CONTENTS

	Page
ISSUE OF MAY 26, 1942	739
NOTICES OF CANCELLATION	739
NOTICES	739
APPLICATIONS UNDER EXAMINATION	740
DECISIONS OF THE U. S. COURTS—	
U. S. Industrial Chemicals, Inc. *v.* Carbide and Carbon Chemicals Corp	741
In re Gunther	744
PATENT SUITS	746
ADJUDICATED PATENTS	747
DISCLAIMERS	748
BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS	749
TRADE-MARKS PUBLISHED (132 APPLICATIONS)	757
TRADE-MARK REGISTRATIONS GRANTED	774
TRADE-MARK REGISTRATIONS RENEWED	781
REISSUES	785
PLANT PATENTS	786
PATENTS GRANTED	788
DESIGNS	959

May 26, 1942

Trade-Marks	141	No. 395,388 to No.	395,528,	inclusive.
T. M. Renewals	60			
Reissues	4	No. 22,100 to No.	22,103,	inclusive.
Plant Patents	7	No. 518 to No.	524,	inclusive.
Patents	720	No. 2,282,897 to No.	2,283,616,	inclusive.
Designs	77	No. 132,509 to No.	132,585,	inclusive.
Total	1009			

Notices of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., April 24, 1942.*

West Coast Textile Company, its assigns or legal representatives take notice:

An application for cancellation having been filed in this Office by Thistletex Weavers, Inc., 78 Franklin St., New York, N. Y., to effect the cancellation of trade-mark registration of West Coast Textile Company, Redlands, Calif., No. 163,416, dated January 9, 1923, and the notice of such proceeding sent by registered mail to the said West Coast Textile Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said West Coast Textile Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., Apr. 17, 1942.*

Tetsujiro Kageyama, his assigns or legal representatives, take notice:

An application for cancellation having been filed in this Office by Continental Coffee Company, Inc., 375 W. Ontario St., Chicago, Ill., to effect the cancellation of trade-mark registration of Tetsujiro Kageyama, 546 Sansome St., San Francisco, Calif., No. 211,867, dated April 20, 1926, and the notice of such proceeding sent by registered mail to the said Tetsujiro Kageyama at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Tetsujiro Kageyama, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Notices

In cases where a license has been issued under the provisions of the act of October 6, 1917 (Public No. 80), as amended July 1, 1940 (Public No. 700), and August 21, 1941 (Public No. 239), it has been customary for the licensee to forward through the mails duplicates of the licensed material and formal papers relating to the same under authority of the original license.

The Office of Censorship has advised that there are practical difficulties in handling such material in the censorship stations and that an additional license under the aforesaid Act should be required for all such duplicate and formal papers. This will be the practice hereafter.

Petitions for licenses of the kind indicated will be expedited in this Office.

CONDER C. HENRY,
Assistant Commissioner.

Under date of May 8, 1942, the Treasury Department promulgated Public Circular No. 5A, under Executive Order No. 8389, dated April 10, 1940, as amended, and regulations issued pursuant thereto, relating to foreign funds control, which circular reads as follows:

Reference is made to General Ruling No. 11. In view of this general ruling, it will be the policy of the Treasury Department to deny applications for licenses to effect the following transactions if they involve trade or communication with an enemy national:

(1) The filing and prosecution in enemy territory of all patent, petty patent, design, or copyright applications and the payment of fees in respect thereof; or the payment of any fees, including maintenance fees, on patents, petty patents, designs, or copyrights in enemy territory.

(2) The filing and prosecution of patent applications, design applications, and applications for copyright, and the payment of any fees in connection therewith, in the United States on behalf of enemy nationals, except in cases in which approval of an application to file or prosecute a patent, design, or copyright application is requested by the Alien Property Custodian.

Attention is directed to the fact that one of the foregoing transactions are authorized by General License No. 72, or by any other license which does not refer expressly to General Ruling No. 11, if they involve any

(Continued on page 748)

Condition of Applications Under Examination at Close of Business May 9, 1942

(Total number of applications awaiting action, excluding Trade-Mark Division, 47,021; Trade-Mark Division, 1,036. Oldest new case, July 17, 1941; oldest amended, April 28, 1941)
(The dates given are 1941 except where † indicates 1942)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Aug. 30	Aug. 28	710
6708	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Dec. 1	Oct. 28	666
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Dec. 17	Dec. 16	621
7083	4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating, Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	Dec. 10	Nov. 24	499
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	Nov. 28	Nov. 29	424
4898 C	6. LEWERS, A. M., Carbon Chemistry (part)	Sept. 25	Sept. 20	1252
5725	7. JARBOE, C. G., Optics; Photography	Sept. 25	Sept. 26	1116
3885	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	Oct. 31	Nov. 12	743
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Oct. 29	Oct. 23	646
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	Jan. 19	Jan. 24	341
5087 B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Dec. 4	Nov. 14	531
7701	12. SPINTMAN, SAMUEL (Act.), Machine Elements; Mechanical Starters; Stop Mechanisms	Sept. 2	Sept. 2	611
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Dec. 22	Dec. 22	629
5097	14. FREEHOF, H. B. (Act.), Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	Oct. 8	Oct. 8	1101
4897	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Nov. 6	Nov. 6	616
5716	16. SPENCER, C. J., Telegraphy; Telephony	Aug. 8	Aug. 6	986
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Nov. 3	Oct. 15	571
4612	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Oct. 21	Oct. 23	573
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Dec. 12	Oct. 27	418
6605	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	Dec. 13	Dec. 29	395
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	July 17	July 17	1863
5660	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	Sept. 8	Sept. 13	220
7624	23. BUTTNER, W. J., Registers (part)	Nov. 1	Oct. 24	773
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Nov. 21	Dec. 5	484
5709	25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Dec. 24	Dec. 1	457
5893	26. YOUNG, R. R., Electricity, Generation; Motive Power	Oct. 18	Aug. 19	525
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	Nov. 29	Oct. 3	370
4628	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	Oct. 15	Oct. 13	683
5082	29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	Jan. 28	Feb. 6	410
4083	30. McCANN, L. P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Nov. 15	Nov. 15	1465
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	Nov. 12	Nov. 10	877
4086	32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Oct. 24	Oct. 22	842
6096	33. KAUFFMAN, H. E. (Act.), Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads.	Dec. 23	Jan. 5	422
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Surface Track; Track Sanders; Draft Appliances; Signals and Indicators.	Aug. 20	Aug. 13	984
3876	35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Portable Receptacles	Nov. 12	Nov. 4	672
7892	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Jan. 26	Jan. 6	535
5886 B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Oct. 14	Oct. 14	797
3084	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stoneworking; Wells; Plastic Compositions.	Jan. 2	Dec. 29	482
4878	39. WHITNEY, F. I., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Oct. 9	Oct. 9	1495
7880	40. DRUMMOND, E. J., Metallic, Wood, Paper, and Special Receptacles	Nov. 24	Nov. 22	541
7612	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	Nov. 24	Nov. 22	492
5882	42. CUTTING, H. O., Electric Signaling	Sept. 24	Sept. 18	865
4886 B	43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Dec. 5	Nov. 6	337
4087 B	44. HARVEY, L. P., Refrigeration	Aug. 30	Sept. 5	753
7093	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Sept. 20	Sept. 20	744
4613	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Aug. 25	Aug. 7	1055
6082	47. KANOF, W. J., Clutches; Brakes	Oct. 10	Oct. 6	843
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Oct. 20	Oct. 25	673
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Oct. 10	Oct. 11	1607
4701	50. LEVIN, S., Synthetic Resins; Carbohydrate Derivatives; Rubber Coating Processes	Feb. 10	Feb. 12	432
5628	51. BACKUS, C. D., Radiant Energy (part)	Jan. 9	Jan. 8	346
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	Sept. 11	Apr. 28	557
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Dec. 23	Dec. 23	506
5883	54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	Jan. 9	Jan. 7	276
6883	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	Sept. 16	Sept. 16	1344
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Dec. 9	Jan. 2	229
6613	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	Dec. 12	Dec. 16	421
5605	58. DOWELL, E. F., Abrading; Bottles and Jars	Aug. 29	Aug. 29	1429
4709	59. SHEPPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	Dec. 1	Nov. 29	304
5896	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Oct. 9	Oct. 8	789
6724	61. YUNGKWAI, B., Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	Sept. 26	Aug. 25	625
5621	62. PUGH, E. C., Games; Geometrical Instruments	Aug. 5	Aug. 5	1371
4888	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	Oct. 27	Oct. 22	1659
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats and Glue; Liquid Coating Compositions; Fuel.	Oct. 31	Dec. 2	413
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	†Mar. 17	†Apr. 28	1086
2099 B	Trade Marks: F. A. RICHMOND	†Mar. 26	†Apr. 14	605
2605	Designs: H. H. KALUPY			

DECISIONS IN PATENT AND TRADE-MARK CASES

Supreme Court of the United States

U. S. Industrial Chemicals, Inc.
v.
Carbide and Carbon Chemicals Corp.

No. 680. Decided March 30, 1942

1. Reissue Patent—Same Invention.

If a comparison of the disclosures of an original and a reissue patent leads to the conclusion that the reissue is not for the same invention as the original, the reissue is void as not within the terms of section 4916 R. S.

2. Same—Same.

A reissue and an original patent are for the same invention if "the reissue fully describes and claims the very invention intended to be secured by the original patent; if the reissue describes and claims only those things which were embraced in the invention intended to have been secured by the original patent; if the broader claims in the reissue are not merely suggested or indicated in the original specification but constitute parts or portions of the invention which were intended or sought to be covered or secured by the original patent. The required intention does not appear if the additional matter covered by the claims of the reissue is not disclosed in the original patent. If there be failure of disclosure in the original patent of matter claimed in the reissue, it will not aid the patentee that the matter covered by the reissue was within his knowledge when he applied for his original patent. And it is not enough that an invention might have been claimed in the original patent because it was suggested or indicated in the specification. It must appear from the face of the instrument that what is covered by the reissue was intended to have been covered and secured by the original."

3. Same—Same—Expert Evidence.

"Although it is the duty of a court to determine for itself, by examination of the original and the reissue, whether they are for the same invention, it is permissible, and often necessary, to receive expert evidence to ascertain the meaning of a technical or scientific term or term of art so that the court may be aided in understanding not what the instruments mean but what they actually say."

4. Same—Same—Same.

"It is inadmissible to enlarge the scope of the original patent by recourse to expert testimony to the effect that a process described and claimed in the reissue, different from that described and claimed in the original patent, is, because equally efficacious, in substance that claimed originally. If such testimony could tip the scales on the issue of the validity of a reissue, it would always be possible to substitute any new combination of steps or elements or devices for the one originally described and claimed by proving that the omission of any one or more steps would not alter the result."

5. Same—Same—Omission of Step or Element.

"This court has uniformly held that the omission from a reissue patent of one of the steps or elements prescribed in the original, thus broadening the claims to cover a new and different combination, renders the reissue void, even though the result attained is the same as that brought about by following the process claimed in the original patent."

6. Same—Validity—Reissue Patent No. 20,370.

Reissue Patent No. 20,370 to Lefort *Held* not to be for the same invention described and claimed and intended to be secured by the original Patent No. 1,998,878, and, therefore, void.

On writ of certiorari to the United States Circuit Court of Appeals for the Fourth Circuit. Reversed.

Mr. William H. Davis (*Mr. Thomas D. Thacher, Mr. Dean S. Edmonds* and *Mr. W. Peters Blanc* with him on the brief) for U. S. Industrial Chemicals, Inc.

Mr. Samuel E. Darby, Jr. (*Mr. Leonard A. Watson, Mr. Clair V. Johnson* and *Mr. Clair W. Fairbank* with him on the brief) for Carbide and Carbon Chemicals Corp.

Mr. Justice Roberts delivered the opinion of the Court.

This is a suit by the respondent to restrain the petitioner from infringing claims 8 and 9 of Reissue Patent No. 20,370. The application for reissue was filed September 25, 1936, and granted May 18, 1937. The original patent was No. 1,998,878, applied for March 22, 1932, and granted April 23, 1935, to Theodore Emile Lefort, of Paris, France, for a "Process for the Production of Ethylene Oxide." The application was based on earlier French patents. The respondent purchased the United States patent in April, 1936, and, as a result of its study thereof, the patentee was persuaded to apply for the reissue.

If the reissue patent is valid, no question is now raised as to petitioner's infringement of the claims in suit. The district court held the patent valid and infringed.[1] The circuit court of appeals affirmed.[2] We took the case because of an apparent conflict with decisions of this court and several circuit courts of appeals, to the effect that a reissue patent must, under the statute, be for the same invention as the original patent.[3] The petitioner also raised a question as to intervening rights which, in the view we take, need not be considered or decided.

Ethylene is a hydrocarbon gas, C_2H_4. For a long time it was thought impossible directly to oxygenize it to form C_2H_4O by bringing oxygen and ethylene into contact, though the formation of ethylene oxide by direct oxidation was commercially desirable. Efforts at direct oxidation, instead of producing the oxide, resulted in less desirable oxygenated compounds such as aldehydes. Lefort conceived the idea of effecting the oxidation by catalytic reaction, that is, the use of a substance, which, in some unexplained way, causes a chemical union or reaction when the two substances to be effected are brought into contact in its presence under given conditions. He recognized one incident of the direct oxidation process as applied to ethylene tending to decrease its efficiency, namely, that, in addition to the principal reaction producing C_2H_4O, there occurs a side reaction by which a portion of the ethylene is converted into carbon dioxide and water, and, to that extent,

[1] 34 F. Supp. 813.
[2] 121 F.2d 665.
[3] R. S. 4916, 35 U. S. C. § 64: "Whenever any patent is wholly or partially inoperative or invalid, by reason of a defective or insufficient specification, or by reason of the patentee claiming as his own invention or discovery more than he had a right to claim as new, if the error has arisen by inadvertence, accident, or mistake, and without any fraudulent or deceptive intention, the Commissioner shall * * * cause a patent for the **same invention**, and in accordance with the corrected specification, to be reissued." * * * [Bold face supplied.]

the ethylene is wasted. He found that, by certain control of the process, this side reaction could be so restricted as not to decrease the production of ethylene oxide below a profitable level.

[1] According to both the original patent and the reissue, ethylene and oxygen are to be introduced into a heated reaction chamber in the presence of a catalyzer. The petitioner insists that the original patent also treats as a mandatory or necessary step the voluntary introduction of water, whereas the reissue in specification and claims 8 and 9 omits this requirement, and therefore describes a different process. The respondent, on the other hand, asserts that as both patents describe the oxygen of air as that which may be used, and as atmospheric air contains moisture, the first, specifying water, and the reissue specifying air, both contemplate the introduction of water in some form and therefore are for the same process.[4] This dispute must be resolved by a comparison of the disclosures of the two instruments. If that comparison leads to the conclusion that the reissue is not for the same invention as the original, the reissue is void as not within the terms of the statute.

We shall postpone discussion of the tests of identity or difference of invention, and the use of expert testimony, to a statement of the criteria of judgment furnished by the language of the specifications and claims of the two documents.

The opening paragraph of the original patent is:

"This invention has for object a process for the production of ethylene oxide which mainly consists in subjecting ethylene to the simultaneous action of the oxygen of air and of water in presence of a catalyzer and, if need be, of hydrogen."

After referring to the use of hydrogen as optional, the specification deals with the character and composition of metals to be used as catalyzers. It then speaks of the elements to be used to obtain the desired reaction thus:

"The ethylene can be obtained from any source of supply;
* * *
"Water can be admitted to the reaction vessel, either in the liquid state, or as steam.
"The oxygen can be the oxygen of the air, this latter gas being introduced in the reaction."

Immediately following, it is said:

"The efficiency of the reaction is increased by diminishing the CO_2 which is formed, by introduction, in this reaction, of a suitable quantity of water. A suitable quantity of CO_2 can also be previously introduced in the reacting gases."

The CO_2 which it is desired to diminish is that which is formed by the undesirable side reaction above mentioned. This reaction is again mentioned, and the introduction of water again specified thus:

"Moreover, the applicant has found that the reaction giving CO_2 is, contrarily to previous belief, a reaction of oxidation independent from that giving ethylene oxide and from that giving aldehydes. From experiments effected by the applicant, it results that, if water is introduced in suitable quantity, the reaction is not only facilitated, as above stated, but in addition, the reaction giving CO_2, probably by direct oxidation of ethylene according to the equation

$$C_2H_4 + 3O_2 = 2H_2O + 2CO_2$$

is checked, owing, as is probable, to the partial pressure of water."

It is further said that the experiments indicate that the side reaction producing CO_2 and water may be completely checked and the efficiency of the reaction producing ethylene oxide increased if CO_2 is previously introduced in addition to the water and the reacting gases.

Three modi operandi are next indicated as examples. In the first, compressed ethylene and compressed air are led, with or without hydrogen, into a heated tube containing the catalyzer, the tube being connected with a circulating pump to supply water under pressure. In the second, the catalyzer is introduced and the tube heated and then "a mixture of ethylene, air, water vapour and hydrogen" is sent through the tube. In the third, the catalyzer is introduced into a high-pressure tube with water. Pure ethylene is added "in order that it can dissolve in the water." The tube is heated and "air and hydrogen are slowly introduced."

The specification concludes:

"The experiments * * * have shown that, in presence of the catalyzers indicated, water, in the form of steam or not, considerably promotes the reaction ensuring the production of ethylene oxide."

All of the seven claims include oxygen and water or steam. Claim 1 is typical. It runs:

"A process for the production of ethylene oxide, consisting in subjecting ethylene to the simultaneous action of oxygen and water, in presence of a catalyst [describing the catalyst] at a temperature between 150 and 400° C."

In some of the claims the word "steam" is substituted for "water"; in two, "hydrogen" is added.

Various options or alternatives are mentioned in the specifications, but nowhere in them, or in the claims, is the introduction of water treated as optional or permissive. The district court made no finding directed to this fact, but the court below definitely holds, and we agree, that, in the process defined in the original patent, the voluntary introduction of water into the reaction chamber is mandatory.

Experiments conducted by the respondent just before it acquired the patent demonstrated that ethylene oxide could be produced by passing ethylene and air over a catalyst at the temperature described in the patent without the voluntary introduction of water. Its patent attorney was asked to study the patent and he concluded that Lefort should have obtained far broader claims. He prepared two oaths for execution by Lefort to support the application for reissue.

In the first it was averred that the specification and claims failed to emphasize the fact that the reaction takes place "whether or not water is present"; and that the attorney in drawing the application had not been adequately instructed that the "fullest benefit and application" of the invention was the production of the oxide in the presence of the catalyst "with or without the inclusion of water in the reaction."

After rejection, the second affidavit was filed. This stated that a certain amount of water was

[4] No question of unreasonable delay is presented. Compare *Mahn* v. *Harwood*, 112 U. S. 354, 360, 30 O. G. 657; *Ives* v. *Sargent*, 119 U. S. 652, 661, 38 O. G. 781; *Topliff* v. *Topliff*, 145 U. S. 156, 169. Nor have we occasion to decide what may be the scope of permissible court review of the Commissioner's determination that the error of the patentee arose "by inadvertence, accident or mistake, without fraudulent or deceptive intention."

necessarily present in the reaction chamber due to the side reaction which gives CO_2 and water, and that the introduction of additional water and carbon dioxide was merely permissive in order to augment the quantities already formed by that reaction.

Thereupon reissue was granted with a rewritten specification, the seven original claims and two new ones, 8 and 9, which are those in suit.

The substituted specification opens thus:

"This invention provides a specific and novel process for making ethylene oxide. It essentially consists in causing ethylene to combine directly with molecular oxygen at temperature of about 150° to about 400° C. in the presence of a surface catalyst which favors the oxidation of ethylene to ethylene oxide under these conditions."

The statement is made that ethylene from any source can be used, and that the oxygen can be that of the air.

The only reference to the introduction of water is:

"The oxidation of ethylene takes place with a giving off of heat, and it is, of course, desirable to maintain the temperature of the zone of reaction within the range specified. This can be facilitated by suitable dilution of the reaction gases, such as that accomplished by the use of air as the source of oxygen, and some water or carbon dioxide in addition to that formed can be admitted to the mixture in the reaction zone if desired. Hydrogen may be similarly added."

The description of the mode of conducting the process differs from all those given in the original specification in omitting the introduction of water.

The specification concludes:

"In any case, the ethylene and oxygen are thus reacted simultaneously at the temperatures set forth in the presence of a surface catalyst and of water" * * *

The new claims 8 and 9 are broader than those of the original patent.[5] It will suffice to quote 8. It is:

"The process of making ethylene oxide by the direct chemical combination of oxygen with ethylene in the proportions of one atom of oxygen to one molecule of ethylene, which comprises forming a mixture containing ethylene and molecular oxygen and conducting said mixture through a confined reaction zone which is maintained at an elevated temperature; controlling said temperature to maintain said mixture in said zone at a temperature between about 150° and about 400° C.; subjecting said mixture in said zone at said elevated controlled temperature to intimate contact with an active surface catalyst"

[describing it, inter alia, as one which favors the formation of "oxidation products containing ethylene oxide in the presence of water."] and describing other steps not necessary to be recited.

[2] The question is whether, in the light of the disclosures contained in the two patents, they are for the same invention.

This Court has said that they are if the reissue fully describes and claims the very invention intended to be secured by the original patent;[6] if the reissue describes and claims only those things which were embraced in the invention intended to have been secured by the original patent;[7] if the broader claims in the reissue are not merely suggested or indicated in the original specification but constitute parts or portions of the invention which were intended or sought to be covered or secured by the original patent.[8] The required intention does not appear if the additional matter covered by the claims of the reissue is not disclosed in the original patent.[9] If there be failure of disclosure in the original patent of matter claimed in the reissue, it will not aid the patentee that the matter covered by the reissue was within his knowledge when he applied for his original patent.[10] And it is not enough that an invention might have been claimed in the original patent because it was suggested or indicated in the specification. It must appear from the face of the instrument that what is covered by the reissue was intended to have been covered and secured by the original.[11]

As the circuit court of appeals held, the original specification and claims treated the voluntary introduction of water into the reaction chamber as a necessary step in the process whereas such introduction is made permissive by the reissue. We agree with that court's view that there is thus a difference between the procedure described in the two documents. But we cannot agree with its conclusion that the difference is so insubstantial as not to invalidate the new claims 8 and 9. On the face of the papers the process described in the original patent included a step not designated as optional or desirable but described and claimed as an integral part of the whole operation. In contrast, the reissue treats this step as immaterial and mentions the introduction of water as for the mere purpose of controlling the temperature in the reaction zone,—although not even suggested by the specification of the original patent which, on the contrary, in its very first sentence, speaks of the simultaneous action of the oxygen of air and of water.

We think it plain that the reissue omitted a step in the process which was described and claimed as essential in the original patent. The court below was persuaded by expert testimony that, from a chemist's point of view, the prescribed step (the introduction of water) was immaterial; in other words, chemists testified that, by carrying out the procedure, omitting the introduction of water, they obtained the results described in the patent. Naturally enough this fact led them to state, as chemists, that the introduction of the water was immaterial. Apparently this testimony induced both of the courts below to conclude that Lefort, when he applied for his original patent, knew that the introduction of water was unnecessary. The inquiry at once arises, if this were so, why did he not say so. If he had discovered a process, which the claims of the reissue are certainly broad enough to cover,—that of mixing dry oxygen and ethylene in the presence of a catalyst at the prescribed temperature to produce ethylene oxide,—it is not understood why, throughout his specifications and claims, he spoke of

[5] This fact, standing alone, does not vitiate the reissue. *Topliff* v. *Topliff*, 145 U. S. 156.

[6] *Powder Co.* v. *Powder Works*, 98 U. S. 126, 138.

[7] *Parker & Whipple Co.* v. *Yale Clock Co.*, 123 U. S. 87, 99, 41 O. G. 811; *Hoskin* v. *Fisher*, 125 U. S. 217, 223, 43 O. G. 509; *Flower* v. *Detroit*, 127 U. S. 563, 571, 42 O. G. 1348.

[8] *Corbin Cabinet Lock Co.* v. *Eagle Lock Co.*, 150 U. S. 38, 42 65 O. G. 1066.

[9] *Clements* v. *Odorless Excavating Apparatus Co.*, 109 U. S. 641, 647, 26 O. G. 353; *Coon* v. *Wilson*, 113 U. S. 268, 277, 30 O. G. 889; *Electric Gas Lighting Co.* v. *Boston Electric Co.*, 130 U. S. 481, 501, 55 O. G. 429; *Freeman* v. *Asmus*, 145 U. S. 226, 239, 59 O. G. 1432; *Olin* v. *Timken*, 155 U. S. 141, 147, 69 O. G. 1361.

[10] *Powder Co.* v. *Powder Works*, supra, p. 138; *Manufacturing Co.* v. *Ladd*, 102 U. S. 408, 413; *Huber* v. *Nelson Mfg. Co.*, 148 U. S. 270, 63 O. G. 311.

[11] *Parker & Whipple Co.* v. *Yale Clock Co.*, supra; *Flower* v. *Detroit*, supra.

exposing ethylene to the simultaneous action of oxygen and water or steam.

We think the court below fell into error in adopting the scientific conclusion of expert witnesses that the result would be the same whether water were introduced into the reaction chamber or not as proof that Lefort's invention was not what he stated it to be in his original patent but rather the invention of a process of bringing ethylene and oxygen into contact in the presence of a catalyst.

[3] [4] Although it is the duty of a court to determine for itself, by examination of the original and the reissue, whether they are for the same invention, it is permissible, and often necessary, to receive expert evidence to ascertain the meaning of a technical or scientific term or term of art so that the court may be aided in understanding not what the instruments mean but what they actually say.[12] It is inadmissible to enlarge the scope of the original patent by recourse to expert testimony to the effect that a process described and claimed in the reissue, different from that described and claimed in the original patent, is, because equally efficacious, in substance that claimed originally.[13] If such testimony could tip the scales on the issue of the validity of a reissue, it would always be possible to substitute any new combination of steps or elements or devices for the one originally described and claimed by proving that the omission of any one or more steps would not alter the result.

[5] This Court has uniformly held that the omission from a reissue patent of one of the steps or elements prescribed in the original, thus broadening the claims to cover a new and different combination, renders the reissue void, even though the result attained is the same as that brought about by following the process claimed in the original patent.

In *Russell* v. *Dodge*, 93 U. S. 460, 11 O. G. 151, the original patent was for treating skins by the use of a compound in which heated fat liquor was expressly stated as an essential ingredient. There was no disclosure that the fat liquor could be used cold. In a reissue the specification was altered by eliminating the requirement that the liquor be heated. The court said:

"The change made in the old specification, by eliminating the necessity of using the fat liquor in a heated condition, and making in the new specification its use in that condition a mere matter of convenience, and the insertion of an independent claim for the use of fat liquor in the treatment of leather generally, operated to enlarge the character and scope of the invention. The evident object of the patentee in seeking a reissue was not to correct any defects in specification or claim, but to change both, and thus obtain, in fact, a patent for a different invention. This result the law, as we have seen, does not permit."

In *Gill* v. *Wells*, 22 Wall. 1, the original patent disclosed and claimed a machine for making hat bodies. One of the elements of the machine was a tunnel through which a current of air was to be passed. The specifications did not indicate that this part could be omitted. The reissue for a machine without any tunnel, was held invalid. The court said (p. 26):

"Argument to show that an invention consisting of a combination of three ingredients which are old is not the same as that of a combination of four old ingredients is quite unnecessary, as the negative of the proposition is as well settled in the patent law as it is in mathematics."

Many other cases might be cited to the same effect.

The court below was persuaded to construe the reissue patent as not differing from the original by the argument that, in both, the introduction of water was not essential to the technological success of the process. When certiorari was applied for in this Court, the respondent in its brief said:

"The introduction of water, as distinguished from its presence, in the reaction zone is not 'an essential feature' in the invention at bar, and was not 'described and claimed in the original patent as an essential feature.'"

This argument goes upon the theory that if the presence of water is necessary to the reaction, its presence is assured by the side reaction we have mentioned which produces CO_2 and water. It does not explain, however, why, if this is the source of the necessary water, Lefort did not say so in his original patent. Nor does it suggest how the reaction can be initiated or caused when dry oxygen is used and the side reaction has not commenced.

In the argument on the merits in this Court, the respondent shifted its position. In brief and argument it stated that both the original and reissue cover the same invention for if both require the introduction of water, the described introduction of air effects also the introduction of water since atmospheric air contains both oxygen and moisture. It is thus sought to avoid the finding of the circuit court of appeals that the original patent called for the voluntary introduction of water and the reissue does not. This argument fails to square with the specification or claims of either the original patent or the reissue. The claims of the original patent are not limited to the oxygen of air; and the specification merely says the oxygen "can be the oxygen of air." The specification and claims of the reissue are satisfied by the introduction of dry oxygen.

In short, to avoid the difficulties which stare one in the face when the attempt is made to read specifications and claims as calling for the same process, the respondent is driven to take inconsistent positions neither of which comports with the plain language of the two patents.

[6] We hold that the reissue is not for the same invention described and claimed and intended to be secured by the original patent and is, therefore, void.

The decree is reversed.

[12] *Seymour* v. *Osborne*, 11 Wall. 516, 546.
[13] *Collar Co.* v. *Van Dusen*, 23 Wall. 530, 557.

U. S. Court of Customs and Patent Appeals

IN RE GUNTHER

No. 4,577. Decided February 24, 1942

[125 F.(2d) 1020]

1. RULE 66—AFFIDAVIT OF EXAMINER.

"The Examiner stated that it was well known in the art to use dry or superheated steam to avoid undue condensation and dilution of the cooking liquor. This statement was not challenged before the Patent Office. If appellant believed that the cited art did not disclose this, he could, under the rules of the Patent Office, have required an affidavit of the Examiner supporting such statement. Having failed to do this, we must accept such statement of the Examiner as correct."

2. PATENTABILITY—PROCESS FOR PRODUCING CELLULOSE.

Claims to a process for the production of cellulose *Held* unpatentable over the prior art.

APPEAL from Patent Office. Affirmed.

Mr. C. P. Goepel (*Mr. Theodore A. Hostetler* of counsel) for Gunther.

Mr. W. W. Cochran (*Mr. Clarence W. Moore* of counsel) for the Commissioner of Patents.

LENROOT, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming a decision of the Primary Examiner rejecting claims 10 and 11 of appellant's application for a patent for lack of patentability over the cited prior art. No claims were allowed.

The claims before us read as follows:

10. In a process for the improved production of pure cellulose, thoroughly saturating corn stalk chaff with caustic soda solution in a closed agitated vessel, introducing dry super-heated steam at 5 atmospheres into the closed agitated vessel to displace the air in the free space of said vessel, introducing a stream of fresh dry superheated steam into the vessel to remove air from fiber pockets of chaff and venting said vessel to permit exit of air and passage of steam, closing said vessel and introducing dry superheated steam at 5 atmospheres into closed vessel to cook and complete disintegration of chaff without further increase in moisture content of the charge.

11. In a process for the improved production of pure cellulose, the steps of wetting corn stalk chaff with caustic soda solution to saturation point of fibers in a closed agitated vessel, introducing dry superheated steam into said vessel at 5 atmospheres pressure to displace air in free space of said vessel, blowing a fresh stream of dry superheated steam through said vessel for expelling air from the fiber pockets of the chaff and venting said vessel to permit exit of air and passage of steam, closing said vessel and introducing dry superheated steam at 5 atmospheres into said closed agitated vessel and steaming for about 1½ hours to complete digestion of chaff without further increase in moisture content of the mix.

The references cited are: Russell, 67,455, August 6, 1867; Valet, 1,630,147, May 24, 1927; Braun, 1,786,890, December 30, 1930; Taube, 1,857,985, May 10, 1932; and Manufacture of Pulp and Paper, vol. III, 3d Ed., 1937, Sec. IV, page 76.

Appellant's application states:

This invention relates to improvements in the production of pure cellulose. In this field, for example also in the manufacture of semi-cellulose, it is already known to saturate straw and similar grasses with soda lye and to decompose them in rotary boilers with the simultaneous supply of steam.

In operating with rotary boilers, for example in the production of semi-cellulose from straw and similar grasses, it has also been proposed to displace the air from the fibrous material saturated with a minimum of alkali solution, as well as from the boiler itself, by means of steam, and to apply then fresh steam.

It is likewise not novel in the art to boil straw and other grasses, using a rotary boiler, in the presence of excess alkali solution, with superheated steam.

It is an object of this invention to combine the detail measures referred to above so as to establish a one-turn procedure. A further object of my invention resides in simply saturating the straw and like grasses with soda lye without contacting it with excess lye, there being, however, at the bottom of a boiler (ball or tumbler boiler) receiving the straw a small quantity of treatment liquor which collects there.

More particularly, the invention consists in a combined process for producing pure cellulose by the decomposition of straw or similar grasses by soda lye in a rotary boiler, wherein the fibrous material is simply saturated with the decomposing liquid, the air being driven out by steam, and wherein the charge is finally steamed with dry superheated steam without increasing the content in moisture. At the same time, the air is not only driven out of the fibrous material, but also of the boiler, in order to avoid damaging the cellulose by oxidation.

With respect to the relative proportions of corn stalk chaff and caustic soda solution, the application states:

20 kilograms of chaff cut from corn straw are placed in a tumbler boiler of 200 litres capacity. To this are added about 60 litres of water or waste lye with the addition of 2 kilograms of caustic soda or a corresponding concentration of weak waste lyes, and with the simultaneous addition of 100 grams of sulphite or hydrosulphite as a reducing agent. * * *

The patent to Braun discloses a mixture of 1000 kilograms of chopped straw with 2000 litres of a caustic soda solution. This mixture is placed in a boiler and heated gently for about half an hour by direct steam, while the boiler is rotated, for the purpose of thoroughly mixing the charge, whereupon the air and steam evolved is allowed to escape. Thereafter steam is again admitted to the constantly rotating boiler to raise the temperature quickly to 160° C. at a correspondingly high pressure, and this operation is continued for four hours. The steam evolved in the boiler is then allowed to escape and the treated material is separated from what remains of the liquid solution.

The patent to Valet discloses the production of pure cellulose from sugar cane bagasse, using thirty gallons of a solution containing caustic soda for every one hundred pounds of bagasse. This is three-tenths of a gallon of solution for each pound of bagasse, or about two and one-half litres per kilogram. The material is placed in a cooking tank, steam is admitted thereto, and the material is cooked at a pressure of from seven to eight pounds for four to six hours.

The patent to Taube, like that of Braun, teaches the displacement of air from the material being digested. The material is cooked in a solution containing about two per centum of caustic soda.

The patent to Russell relates to the disintegration of vegetable fiber and discloses the use of superheated steam in his process. The patent states:

My invention or process consists in subjecting the fibrous matter to the action of dry or superheated steam, in connection with the action of carbonic acid gas, either separately or combined with atmospheric air, delivered under pressure, and used in combination with chemically prepared solutions.

The publication—Manufacture of Pulp and Paper—discloses the use of superheated steam in the production of sulphite pulp.

It appears that appellant cancelled certain claims (8 and 9) which contained the limitation of "merely saturating the material." These claims had been preliminarily rejected by the Examiner, one of the grounds of rejection as stated by him being:

Claims 8 and 9 are rejected as indefinite as to "merely saturating the material." How much is used is not stated. The specification discloses the use of three times by weight as much liquid as straw and this appears to be more than a mere wetting. In fact, it appears to be more than is customarily employed in the art.

In the remarks of appellant's counsel found in the record cancelling other claims and adding claims 10 and 11 before us, the statement of the Examiner above quoted was not challenged, and with respect to claims 10 and 11 it was stated:

Claim 10 seeks to emphasize the advantage of completely removing the entrapped air from the fiber pockets of the chaff to insure against oxidation of the cellulose.

Claim 11 is thought to express patentability of the multi-stage process in that boiling is avoided and dry steaming alone is employed to effect the disintegration of the corn stalk chaff to produce pure cellulose.

We would emphasize the fact that the claims before us are not limited to merely saturating the

material with the caustic soda solution, as were the cancelled claims 8 and 9.

The statement of the Examiner contains the following:

In the claims it does not appear how much caustic soda solution is used per pound of corn stalk material. Consequently this alleged critical factor can be given little weight. Applicant's specific example mentions the use of 60 liters of water, in which is dissolved caustic soda, with 20 kg. corn straw. Valet, upon whom the claims were rejected, uses 30 gallons of solution for every 100 pounds sugar cane bagasse. This is even less solution per pound of fibrous material than used by applicant.

The patent to Braun discloses the treatment of straw, stalks, etc., with caustic soda solutions. In a suitable rotary boiler Braun mixes 1000 kg. of chopped straw with 2000 liters of cooking solution. This is less cooking solution per unit of fibrous material than employed by applicant. Braun then steams the material and allows the air to escape. The charge is then cooked under pressure. The only distinction in applicant's process over Braun's disclosure is the use of superheated steam and there is no reason to believe that Braun does not also use superheated steam.

The idea of removing air from the digesting material has been utilized by others in the art as admitted by applicant. Taube cooks corn stalks in caustic soda solution and takes elaborate precautions to remove air prior to cooking.

It is also well known in the art to use dry or superheated steam to avoid undue condensation and dilution of the cooking liquor. Russell conducts his cooking process with dry or superheated steam. It is also to be noted that Russell uses the steam to remove the air in the boiler and from the fibrous material. The book reference states that by using superheated steam there is less condensation and dilution and more rapid heating. The use of superheated steam therefore appears to be a matter of choice within the skill of the art. Furthermore, since the claims are not limited to any specific volume of solution it is not seen wherein the use of dry steam is critical.

The Board of Appeals in its decision stated:

Appellant argues that the Examiner overlooks that applicant does not claim dry steam per se, but only in the specific combination, that is, to act upon the alkali saturated chaff without cooking and it is argued that this is a new function and that a new result has been obtained, that is, the attaining of cellulose without cooking or chemical process, but by the physical action of heat-softening the chaff to enable the alkali to act on the same. It is argued that the expelling of air with superheated steam serves only for the preparation of the chaff and in doing so the material is warmed up so far that later on by introducing the actual opening-up steam, without cooking, no condensate will develop and that, accordingly, the fibers are opened up without surplus of liquid and without the process of cooking. It is further argued that thinning of the soda is avoided since cooking is not present at all.

It is to be noted that claim 10, for example, calls for closing the vessel and introducing dry superheated steam at 5 atmospheres into closed vessel to cook and complete distintegration of chaff without further increase in moisture content of the charge. According to this claim, therefore, applicant seems to claim the step of cooking. This leaves claim 10, for example, to differentiate from the art chiefly by disintegration of chaff without further increase in moisture content. The so-called book reference suggests that the advantages of using superheated steam are less condensation and dilution and more rapid heating. With the suggestion in this reference that the use of superheated steam has the tendency to reduce or avoid condensation and dilution, it is not apparent that these claims call for any process which amounts to an improvement over the art cited by the examiner.

It is rather difficult to ascertain from the record and appellant's brief upon what grounds he contends that the claims are patentable.

As hereinbefore indicated, before the Examiner, appellant stressed the element of removing the entrapped air by using dry steam and thus avoiding the boiling of the mixture. His chief complaint against the decision of the board is that it confused "cooking" with "boiling."

Appellant also appears to rely upon his conception of merely saturating the material being digested with his caustic soda solution, leaving no excess caustic in the boiler, subject to boiling.

However the claims before us are not so limited, and the proportion of material treated to the caustic soda solution used does not seem to be materially different from the proportions disclosed in the prior art, and in any event such proportion, whatever it may be, is not a limitation in either of the claims before us.

It would seem therefore that if in the prior art superheated dry steam be substituted for ordinary steam, boiling would be prevented if it is prevented in appellant's process. However we are not at all certain that appellant's process does avoid boiling. Not only is there no limitation in the claims with respect to a minimum of caustic solution, but his application states that, after saturating the material, a small quantity of the treating liquid is left in the bottom of the boiler. While he states in effect that this residue does not come into contact with the material, it would seem that upon the boiling of this residue liquid at the temperature employed the moist vapor thereof would come into some contact with the material.

However this may be, the claims before us are so broadly drawn that the presence of boiling in the process is not necessarily excluded.

It is to be noted that the patent to Braun shows the use of steam elevated to a temperature of 160° C., while appellant gives the temperature of his superheated steam a range of from 140° to 175° C. Therefore, if the excess liquid in Braun boils, as appellant contends, any excess liquid present in appellant's process would boil.

Therefore it seems to us that the only element of appellant's claims which might involve invention is that which calls for the employment of superheated dry steam, thus avoiding any additional liquid in the boiler caused by the condensation of the steam.

However, the patent to Russell discloses the use of "dry or superheated steam" and the publication reference teaches that the advantages of superheated steam in the manufacture of sulphite pulp are less condensation and dilution and more rapid heating.

[1] Moreover the Examiner stated that it was well known in the art to use dry or superheated steam to avoid undue condensation and dilution of the cooking liquor. This statement was not challenged before the Patent Office. If appellant believed that the cited art did not disclose this, he could, under the rules of the Patent Office, have required an affidavit of the Examiner supporting such statement. Having failed to do this, we must accept such statement of the Examiner as correct.

[2] In view of all the foregoing we fail to see wherein any invention has been made by appellant, and the decision appealed from is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,092,078, M. C. Overman, Vehicle tires, D. C., N. D. Ohio, E. Div., Doc. E 3686, *The Overman Cushion Tire Co., Inc.* v. *The Goodyear Tire & Rubber Co.* Dismissed without prejudice Mar. 16, 1942.

1,422,614, F. H. Page, Means for balancing and regulating the lift of aircraft, C. C. A. 2d Cir., Doc. —, *Handley Page, Ltd.*, v. *Leech Aircraft, Inc.* Decree reversed (notice Mar. 18, 1942).

1,477,744, H. J. Yaghubian, Reversible coat, D. C. Mass., Doc. 865, *H. Yaghubian* v. *H. Trongone, et al.* Stipulation of dismissal (notice Mar. 1, 1942).

1,545,808, G. Ajello, Safety device for aircraft, appeal filed Mar. 9, 1942, C. C. A., 2d Cir., Doc. —, *G. Ajello* v. *Pan American Airways Corp., et al.*

1,646,009, H. M. Cameron, Scale; 1,824,698, M. J. Weber, Combined lever and coil spring type of scale; 2,066,243, Barler & Burkhard, Weighing scale; 2,224,327, 2,098,845, Weber & Vanderhoff, same, D. C., N. D. Ill., E. Div., Doc. 2906, *Continental Scale Corp.* v. *Harrison Wholesale Co., et al.* Claims 1, 3, 4, 5, 6, 7 and 8 of 1,648,009, claims 8, 9 and 10 of 1,824,698, claims 2 and 6 of 2,066,243, claims 1, 2, 4, 5, 7, 10 to 15 incl., 17, 18, 19, 21, 22, 25, 26, 28, and 30 of 2,224,327 held invalid for lack of invention; Patent 2,098,845 withdrawn by amendment to amended complaint; bill dismissed Feb. 18, 1942.

1,651,709, J. L. Jones, Solder, filed Mar. 11, 1942, D. C., W. D. Pa., Doc. 1876, *A. R. MacGregor* v. *Westinghouse Electric & Mfg. Co.*

1,710,035, R. E. Thompson, Sound reproducing instrument, appeal filed Mar. 18, 1942, C. C. A., 2d Cir., Doc. —, *Haseltine Corp.* v. *Emerson Television Radio, Inc., et al.*

1,786,998, E. V. Hawkins, Basket, filed Feb. 26, 1942, D. C., S. D. Ind. (Indianapolis), Doc. 502, *Hawkins Handle Corp.* v. *G. W. Talbot, Sr., et al.*

1,824,698. (See 1,646,009.)

1,830,428, E. A. Ellis, Manufacture of insoles, D. C. Mass., Doc. E 4642, *B. B. Chemical Co.* v. *E. A. Ellis, et al.* Decree which affirmed decree of District Court is affirmed Feb. 13, 1942.

1,919,674, L. Wenczel, Pneumatic puffing machine, filed Mar. 9, 1942, D. C., S. D. N. Y., Doc. 17/379, *Sterling Airbrush Co.* v. *Quaker Novelty & Puffing Co.*

1,924,085, G. A. Lyon, Cover for spare tires of automobiles; 1,955,710, same, Tire cover and mounting for spare wheels, C. C. A., 6th Cir., Doc. 8817, *Lyon, Inc., et al.* v. *Clayton & Lambert Mfg. Co.* Patent 1,924,085 held not infringed; 1,955,710 held invalid Mar. 9, 1942.

1,928,948, P. Oftedal, Weather strip, filed Feb. 17, 1942, D. C., N. D. Ill., E. Div., Doc. 3936, *Advance Protex Weather Strip Co., et al.* v. *Protex Weather Strip Mfg. Co.*

1,955,710. (See 1,924,085.)

1,959,321, W. H. Wedger, Method and composition for use in securing together pieces of stock, D. C., W. D. N. Y., (Buffalo), Doc. 172, *B. B. Chemical Co.* v. *Pierce & Stevens, Inc.* Consent decree Mar. 9, 1942.

1,962,264, H. Veit, Hair cutting and thinning shears, D. C., N. D. Ohio, E. Div., Doc. 20,645, *E. A. Beck* v. *Barber Supply Co., et al.* Consent judgment holding patent valid and infringed, injunction Mar. 11, 1942.

1,990,329, L. D. Johnson, et al., Food product and method, filed Feb. 4, 1942, D. C., N. D. Ill., E. Div., Doc. 3898, *Mead Johnson & Co.* v. *The Fair.* Same, filed Mar. 6, 1942, D. C., N. D. Ill., E. Div., Doc. 4009, *Mead Johnson & Co.* v. *Sargent's Drug Store, Inc.*

2,066,243. (See 1,646,009.)

2,098,845. (See 1,646,009.)

2,118,980, Montgomery & Bourgeois, Dental impression tray, D. C., S. D. Calif., C. Div., Doc. 725—H, *H. H. Montgomery, et al.* v. *H. L. Page.* Dismissed with prejudice Feb. 20, 1942.

2,133,076, B. M. Bodde, Translucent projection screen, D. C., S. D. Calif., C. Div., Doc. 823—RJ, *Flat Light Screen Co.* v. *Paramount P Pictures, Inc., et al.* Dismissed by stipulation Mar. 12, 1942.

2,205,844, J. H. Clements, Mechanical push-button control, D. C., N. D. Ohio, W. Div., Doc. 4505, *J. P. Burke, et al.* v. *American Steel Package Co.* Dismissed without prejudice Mar. 17, 1942.

2,207,078, J. Stuer, Transfer mechanism for looms, D. C. Mass., Doc. 1055, *J. Stuer* v. *G. E. Kilburn Mfg. Co., et al.* Decree for plaintiff for an injunction Mar. 5, 1942.

2,219,393, H. H. McAdam, Defrosting device, D. C., S. D. Calif. (Los Angeles), Doc. 1982—BH, *Refrigeration Engineering, Inc.* v. *Acme Scale & Fixture Co., et al.* Consent judgment for plaintiff for injunction Mar. 9, 1942.

2,224,327. (See 1,646,009.)

2,238,347, O. L. Starr, et al., Sprocket wheel filed Feb. 20, 1942, D. C., S. D. Calif., C. Div., Doc. 2074, *Caterpillar Tractor Co.* v. *Alloy Steel & Metals Co.*

2,244,375, W. C. Schotz, Vacuum cleaner, filed Mar. 13, 1942, D. C., W. D. Wash., N. Div., Doc. 484, *W. C. Schotz* v. *Sears, Roebuck & Co.*

2,255,564, E. Gebauer-Fuelnegg, A composition suitable for use in the production of coated sheet material, filed Jan. 26, 1942, D. C. Dels., Doc. 247, *The Goodyear Tire & Rubber Co.* v. *Marbon Corp.*

2,264,141, V. Nemeroff, Lighting fixture, filed Feb. 5, 1942, D. C., N. D. Ill., E. Div., Doc. 3904, *Electro Mfg. Co.* v. *Superior Plastic Co., et al.*

Des. 109,126, P. Carlson, Truck, D. C. N. J., Doc. 937, *Metropolitan Body Co.* v. *Robt. Becker.* Consent decree for injunction Aug. 6, 1940.

Des. 124,921, F. Hoenig, Lace collar, D. C., S. D. N. Y., Doc. 13/314, *Tobler & Hoenig* v. *Bretton Dress Corp., et al.* Consent order of discontinuance as to Schofler & Tieger; judgment as to Bretton Dress Corp. (notice Mar. 10, 1942).

Des. 125,383, E. Breer, Dress, D. C., S. D. N. Y., Doc. 13/219, *Musman-Pincus, Inc.* v. *Tailored Junior Dress Co., Inc.* Stipulation of discontinuance (notice Mar. 10, 1942).

Des. 125,540, L. Friedman, Handbag, D. C., S. D. N. Y., Doc. 13/145, *Gold Seal Importers, Inc.*, v. *Kruger-Ressner, Inc., et al.* Consent order of discontinuance (notice Mar. 9, 1942).

Des. 126,959, A. Gershuny, Dress, D. C., S. D. N. Y., Doc. 14/92, *Highlight Fashions, Inc.*, v. *Victoria Dress Co., Inc.* Consent judgment (notice Mar. 6, 1942).

Des. 131,035, E. R. Popper, Knitted textile fabric, filed Mar. 13, 1942, D. C., S. D. N. Y., Doc. 17/404, *Beldoch-Popper, Inc.*, v. *Carl Gutmann & Co., Inc.*

Des. 131,609, S. Elmo, Dress ensemble, filed Mar. 13, 1942, D. C., S. D. N. Y., Doc. 17/403, *Friedman Dress Co., Inc.* v. *Holsberg & Lasoff, Inc.*

Adjudicated Patents

(C. C. A. N. Y.) Page patent, No. 1,422,614, for means for balancing and regulating the lift of aircraft, claims 1, 2 and 4 *Held* invalid and not infringed. *Handley Page, Limited,* v. *Leech Aircraft,* 126 F.(2d) 267.

(D. C. N. Y.) Pollak patent, No. 1,592,502, for lead pencil, claims 1–3 *Held* invalid. *Gilfred Corporation* v. *Eversharp,* 43 F. Supp. 645.

(D. C. Conn.) Schenk patent, No. 1,815,868, for lubrication system for internal combustion engines, claims 2, 3, 5, 11, 15 and 16 *Held* valid and not infringed, claims 4 and 14 *Held* valid and infringed. *Schenk* v. *United Aircraft Corporation,* 43 F. Supp. 679.

(D. C. Va.) Stow patent, No. 1,961,016, for mine car, *Held* invalid. *Sanford Inv. Co.* v. *Enterprise Wheel & Car Corporation,* 43 F. Supp. 665.

(D. C. Va.) Stow patent, No. 1,961,018, for mine car and the like, *Held* invalid. *Id.*

(D. C. N. H.) Abbott patent, No. 2,160,810, for winding machine, claims 14 and 28 *Held* invalid. *Universal Winding Co.* v. *Abbott Mach. Co.,* 43 F. Supp. 647.

(D. C. Va.) Stow reissue patent, No. 20,590, for mine and other car, *Held* invalid. *Sanford Inv. Co.* v. *Enterprise Wheel & Car Corporation,* 43 F. Supp. 665.

(D. C. Va.) Stow reissue patent, No. 20,591, for sidewise dumping mine car and the like, *Held* invalid. *Id.*

(D. C. Conn.) Schenk reissue patent, No. 21,031, for lubrication system for internal combustion engines, claims 17, 18, 19 and 20 *Held* invalid. *Schenk* v. *United Aircraft Corporation*, 43 F. Supp. 679.

Disclaimers

2,065,995.—*Louis J. Dorfman*, Brooklyn, N. Y. MACHINE FOR PERFORATING CIGARS. Patent dated December 29, 1936. Disclaimer filed May 1, 1942, by the assignee, *International Cigar Machinery Company*.

Hereby enters this disclaimer to claim 12 of said patent.

2,197,735.—*Joseph R. Thomas*, Chicago, Ill. CONVERTIBLE SEAT. Patent dated April 16, 1940. Disclaimer filed May 4, 1942, by the inventor.

Hereby enters this disclaimer to claims 21 and 22, in said patent.

2,270,225.—*Alwin G. Steinmayer*, South Milwaukee, Wis. FUSE LINK CONSTRUCTION. Patent dated January 13, 1942. Disclaimer filed May 4, 1942, by the assignee, *Line Material Company*.

Hereby enters this disclaimer to claims 12, 13, 14, 15, 16, 17, 18, 21, 22, 23, 24, 25, and 27 to 39 inclusive, of said Letters Patent.

2,279,187.—*Leslie Ernest Thompson* and *Alexander Jenkins*, London, England. ALTERNATING ELECTRIC CURRENT RECTIFIER OF THE SELENIUM TYPE. Patent dated April 7, 1942. Disclaimer filed April 25, 1942, by the assignee, *The Union Switch and Signal Company*.

Hereby disclaims the subject matter of claims 1, 6, and 7.

Notices

(Continued from page 739)

trade or communication with an enemy national. The transmission or receipt after March 18, 1942, of papers or documents relating to patents, patent applications, etc., directly or indirectly to or from an "enemy national" are included within the meaning of "trade or communication with an enemy national".

General License No. 72, of course, continues to be in effect with respect to the filing and prosecution of patent applications in the United States and other transactions authorized therein, in cases which do *not* involve trade or communication (after March 18, 1942) with an enemy national.

General Ruling No. 11, referred to in the aforesaid Public Circular No. 5A, provides:

(1) No license or other authorization now outstanding or hereafter issued, unless expressly referring to this general ruling, shall be deemed to authorize any transaction which, directly or indirectly, involves any trade or communication with an enemy national.

(2) As used in this general ruling and in any other rulings, licenses, instructions, etc.:

(*a*) The term "enemy national" shall mean the following:

(*i*) The government of any country against which the United States has declared war (Germany, Italy and Japan) and the governments of Bulgaria, Hungary and Rumania and any agent, instrumentality or representative of the foregoing governments, or other person acting therefor, wherever situated (including the accredited representatives of other governments to the extent, and only to the extent, that they are actually representing the interests of the governments of Germany, Italy and Japan and Bulgaria, Hungary and Rumania); and

(*ii*) The government of any other blocked country having its seat within enemy territory, and any agent, instrumentality, or representative thereof, or other person acting therefor, actually situated within enemy territory; and

(*iii*) Any individual within enemy territory and any partnership, association, corporation or other organization to the extent that it is actually situated within enemy territory; and

(*iv*) Any person whose name appears on The Proclaimed List of Certain Blocked Nationals and any other person acting therefor.

(*b*) The term "enemy territory" shall mean the following:

(*i*) The territory of Germany, Italy and Japan; and

(*ii*) The territory controlled or occupied by the military, naval or police forces or other authority of Germany, Italy or Japan.

The territory so controlled or occupied shall be deemed to be the territory of Albania; Austria; that portion of Belgium within continental Europe; Bulgaria; that portion of Burma occupied by Japan; that portion of China occupied by Japan; Czechoslovakia; Danzig; that portion of Denmark within continental Europe; Estonia; that portion of France within continental Europe occupied by Germany or Italy; French Indo-China; Greece; Hong Kong; Hungary; Latvia; Lithuania; Luxembourg; British Malaya; that portion of the Netherlands within continental Europe; that portion of the Netherlands East Indies occupied by Japan; Norway; that portion of the Philippine Islands occupied by Japan; Poland; Rumania; San Marino; Thailand; that portion of the Union of Soviet Socialist Republics occupied by Germany; Yugoslavia; and any other territory controlled or occupied by Germany, Italy or Japan.

(*c*) The term "The Proclaimed List of Certain Blocked Nationals" shall mean "The Proclaimed List of Certain Blocked Nationals" as amended and supplemented, promulgated pursuant to the President's Proclamation of July 17, 1941.

(*d*) The term "trade or communication with an enemy national" shall mean the sending, taking, bringing, transportation, importation, exportation, or transmission of, or the attempt to send, take, bring, transport, import, export or transmit

(*i*) any letter, writing, paper, telegram, cablegram, wireless message, telephone message or other communication of any nature whatsoever, or

(*ii*) any property of any nature whatsoever, including any goods, wares, merchandise, securities, currency, stamps, coin, bullion, money, checks, drafts, proxies, powers of attorney, evidences of ownership, evidences of indebtedness, evidences of property, or contracts directly or indirectly to or from an enemy national after March 18, 1942.

(3) This general ruling shall not be deemed to affect any outstanding specific license in so far as such license expressly authorizes any transaction which involves trade or communication with any person whose name appears on The Proclaimed List of Certain Blocked Nationals.

(4) Any transaction prohibited by section 3(*a*) of the Trading With the Enemy Act, as amended, is licensed thereunder unless such transaction is prohibited pursuant to section 5(*b*) of that Act and not licensed by the Secretary of the Treasury. In this connection, attention is directed to the General License under section 3(*a*) of the Trading With the Enemy Act, issued by the President on December 13, 1941.

CONDER C. HENRY,
Assistant Commissioner.

BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS

RENDERED DURING APRIL, 1942

EX PARTE BURKE & JAMES, INC., Serial No. 403,906.

In a decision rendered April 7, 1942 (163 Ms. Dec. 907, 53 U. S. P. Q. 261), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks in refusing registration to Burke & James, Inc., of Chicago, Ill., of the word "Solar" as a trade-mark for "artificially illuminated photographic enlargers." Registration was refused by the Examiner on two grounds; first, that the mark is descriptive of another type of photographic enlarger, and hence deceptive as applied to applicant's goods; and second, that it is confusingly similar to the trade-mark "Isolar," previously registered to a German concern for cameras and parts thereof. The refusal of registration by the Examiner was affirmed on both the grounds stated.

On appeal, the applicant, in attempting to distinguish from the reference, urged that enlargers have acquired a distinct status in the photographic field, and no one in the photographic business, or even the purchasing public, could mistake an enlarger for a camera. However, the First Assistant Commissioner ruled that that was not the test to be applied. He said:

"The two articles are closely related, and reasonably would be assumed to emanate from the same source. In fact the record discloses that applicant manufactures cameras, and sells them under the same mark as the one here sought to be registered. Clearly a camera used for taking pictures and a camera used for producing enlargements are merchandise of the same descriptive properties, and it is my opinion that their sale under marks so nearly similar as 'Solar' and 'Isolar' would be very likely to cause confusion as to origin."

With respect to the Examiner's first ground for refusing registration, the First Assistant Commissioner stated:

"As pointed out by the Examiner, 'solar camera' is a dictionary expression, defined as an instrument for making enlargements by daylight or sunlight. Applicant's device is artificially illuminated, and is so described in the application; and applicant states that 'sun-operated cameras have long since become obsolete, due to the improvements in the art.' It seems to me, however, that applicant has merely appropriated the name of a type of enlarger over which its own is an improvement, and that its use of that name as a trade-mark might readily deceive those of the public who may have been familiar with the outdated device."

PETROL CORPORATION v. ANDERSON-PRICHARD OIL CORPORATION, Opposition No. 19,722.

In a decision rendered April 7, 1942 (163 Ms. Dec. 906, 53 U. S. P. Q. 261), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of Petrol Corporation of Philadelphia, Pa., to the application of Anderson-Prichard Oil Corporation of Oklahoma City, Okla., for registration of the trade-mark "Petrolene" for a petroleum by-product cut to specifications for the purpose of replacing benzol in the lacquer and rubber industries. The opposition was based on opposer's prior ownership and use of the trade-mark "Petroline" for gasoline.

The sole question raised on the appeal was whether the goods of applicant and opposer are of the same descriptive properties. In deciding that they are, the Assistant Commissioner said:

"As appears from stipulated exhibits offered by applicant and from the statements of applicant's attorney, applicant's product is a naphtha, and naphtha and gasoline are produced from petroleum during the same refining operation at close stages thereof. Each is a volatile, inflammable, liquid hydrocarbon mixture. Opposer refines and sells both products.

"It is my opinion the goods are so closely related in their manufacture, character and source of distribution that, even though the goods have specifically different uses, they are goods of the same descriptive properties and the concurrent use of identical trade-marks on both would lead purchasers to believe that both products were refined by the same refiner or came from the same distributor, or both, and therefore the concurrent use of the identical marks here involved on the goods stated would be likely to cause confusion or mistake in the mind of the public and to deceive purchasers."

RADIO CORPORATION OF AMERICA v. RAYON CORPORATION OF AMERICA, Opposition No. 18,067.

In a decision rendered April 14, 1942 (163 Ms. Dec. 909, 53 U. S. P. Q. 262), *First Assistant Commissioner Frazer* reversed the decision of the Examiner of Trade-Mark Interferences and thereby dismissed the opposition of Radio Corporation of America of New York, N. Y., to the application of Rayon Corporation of America of Allentown, Pa., for registration of the notation, "R. C. A Fabric," the word "Fabric" being disclaimed, as a trade-mark for "knitted rayon materials in the piece."

The opposition was sustained by the Examiner on the ground that the initial letters "RCA" of opposer's corporate name have

"become so identified with the opposer company that their use as a part of the mark 'R. C. A Fabric' sought to be registered would lead many purchasers to assume that the opposer has sponsored the production and sale of applicant's goods."

In support of his position, the Examiner cited *Feldman* v. *Amos and Andy*, 21 C. C. P. A. 823, 68 Fed. (2d) 746; and *Colonial Williamsburg, Inc.*, v. *Tomlinson of High Point*, 500 O. G. 771, 40 U. S. P. Q. 563. However, the First Assistant Commissioner found neither of these decided cases particularly apposite. He said:

"In the Feldman case the applicant had appropriated the complete firm name of the opposer; and in the Colonial Williamsburg case it was pointed out 'that applicant in his advertising has attempted to popularize his merchandise by associating it with opposer's exhibits, thus deliberately seeking to take advantage of opposer's prestige.' Here the appropriation of opposer's name is only partial; and the rule applies that 'where less than the whole name has been appropriated, the right of registration will turn upon whether it appears that such partial appropriation is of such character and extent that, under the facts of the particular case, it is calculated to deceive or confuse the public to the injury of the corporation to which the name belongs.' *American Steel Foundries* v. *Robertson*, 269 U. S. 372, 1926 C. D. 289.

"Opposer is a holding company, whose business, as stated by the Examiner, 'pertains to radio, television, and related arts.' In this particular field the record clearly establishes that the letters 'RCA' have come to designate opposer to the mind of the public. But it is difficult to conceive of a class of merchandise more remote from the activities in which opposer is interested than are applicant's fabrics in the piece, and I am unable to believe that any person of average intelligence would be likely to associate such goods with opposer."

In his decision the First Assistant Commissioner discussed and distinguished two decisions in trade-mark cases upon which the opposer relied, stating:

"Opposer relies heavily upon my decision in *American Federation of Labor* v. *Joseph S. Finch & Co.*, 469 O. G. 772, 30 U. S. P. Q. 208, where I refused registration of the initials 'A. F. L.' as a trade-mark for whisky, brandy, gin, rum, and alcoholic cordials, over the opposition of American Federation of Labor, on the ground that such partial appropriation of the opposer's name, and its use as a trade-mark upon those particular goods, would be likely to cause confusion. The chief distinction between that case and this lies in the nature of the goods respectively involved. While it is reasonably possible that purchasers may assume that an alcoholic beverage bearing its initials is indorsed by American Federation of Labor, it does not necessarily follow that purchasers of piece goods bearing opposer's initials would be likely to assume that such goods are sponsored by opposer. As already indicated, it is my opinion that they would not.

"The same distinction exists between the instant case and *National Society of the Daughters of the American Revolution* v. *T. Buettner & Co., Inc.*, 156 Ms. D. 457, 6 U. S. P. Q. 138, also relied upon by opposer. There the National Society of the Daughters of the American Revolution popularly known as the 'D. A. R.' opposed registration of a mark dominated by those letters for 'fabrics upon which are stamped patterns for embroidery.' Because these goods were 'of a class especially purchased by women,' the Commissioner reached the conclusion that 'there is a probability of purchasers or customers attaching some significance to the use of these three letters and being misled into the belief that the opposer society indorsed or approved of the applicant's goods.' That reasoning would doubtless apply here were applicant's mark appropriated to some sort of electrical equipment, but that would be a far cry from fabrics in the piece."

EX PARTE ARMSTRONG CORK COMPANY, Serial No. 428,530.

In a decision rendered April 15, 1942 (163 Ms. Dec. 911, 53 U. S. P. Q. 266), *Assistant Commissioner Van Arsdale* affirmed the action of the Examiner of Trade-Marks in refusing registration to the Armstrong Cork Company, of Lancaster, Pa., of the mark "Fold-Spray" for fountain syringes.

The Assistant Commissioner agreed with the Examiner that the mark "Fold-Spray" consists merely of words that are descriptive of the goods named in the application. He said:

"From the labels filed with the application it appears that the syringes to which the mark is applied are of the folding type and are adapted for use with different types of nozzles. It also appears from applicant's brief that spray douches, which consist of a bulb and a spray tube or nozzle connected thereto, are well known, but applicant asserts that although the word 'spray' is descriptive of such douches the word 'spray' would not be applied descriptively to a fountain syringe, and that spray douches and fountain syringes are readily distinguishable from each other.

"It does not appear, however, that a fountain syringe may not have a spray tube or nozzle as do spray douches, and it seems to me that to apply the name 'Fold-Spray' to a fountain syringe describes the syringe as being of the folding type and equipped, or adapted to be equipped, with a spray tube or nozzle. I consider the mark 'Fold-Spray' a mere obvious contraction of the words 'folding spray'."

H. DAROFF & SONS, INC., *v.* EPHRAIM BROWNSTEIN, Opposition No. 19,336.

In a decision rendered April 15, 1942 (163 Ms. Dec. 912, 53 U. S. P. Q. 264), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition by H. Daroff & Sons, Inc., of Philadelphia, Pa., to the application of Ephraim Brownstein, also of Philadelphia, Pa., for registration of a mark for men's and young men's suits, top coats, overcoats and trousers, consisting of the word "Mastercraft" associated with the picture of a tailor sitting tailor-fashion on a table and stitching a garment.

The opposition was based on prior use and registration by opposer of two marks, consisting respectively of the words "Mastertrim" and "Masterstripe", each associated with a picture of an unfinished coat for a man, and also on prior use of a mark consisting of the words "Master Tailored Clothes" with the picture of an unfinished coat; the two registered marks being used for outer suits for men and boys and the other mark being used for men's and young men's suits, trousers, top coats and overcoats.

In view of a stipulation by the parties, the Assistant Commissioner stated that only the question of confusing similarity required discussion by him. Upon this question he had the following to say:

"It seems to me the marks would be known, remembered and recognised by their words rather than by the pictures with which the words are associated. Certainly, when it is desired to identify the marks verbally the words would be used, and it would not be likely that persons wishing to identify any of the marks which include a picture would describe the picture without mentioning the word which is associated therewith.

"The names appear to suggest masterly workmanship and to have common significance in this respect. The words considered in their entireties have also considerable similarity in appearance and in sound when spoken. Considering each mark in its entirety I am of the opinion that applicant's mark is so similar to each of opposer's marks that the current use of applicant's mark and any one or more of opposer's marks on the identical goods, to wit; men's suits, would be likely to cause confusion and mistake in the mind of the public and to deceive purchasers."

OXO, LIMITED, *v.* THE GRIFFITH LABORATORIES, INC., Opposition No. 19,801.

In a decision rendered April 15, 1942 (163 Ms. Dec. 913, 53 U. S. P. Q. 264), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of Oxo, Limited, of London, England, to the application of The Griffith Laboratories, Inc., of Chicago, Ill., for registration of the word "Oxolac" as a trade-mark for

"a protein composition comprising animal hemoglobin and animal casein, rich in calcium, iron and protein for use as a nutritive water-binding agent for meat products such as sausage and loaves."

The ground of the Examiner's decision was that applicant's mark is confusingly similar to opposer's trade-mark "Oxo," registered many years prior to applicant's alleged date of first use, for "fluid beefs, meat extract, bouillon and meat-extract cubes, and cubes for making soups."

The First Assistant Commissioner ruled that, while the goods of the parties are not identical, they are merchandise of the same descriptive properties. He also stated that, though the marks of the parties are not identical, he was constrained to agree with the Examiner that the marks are too nearly alike to be used on such goods without a reasonable likelihood of resulting confusion.

As stated by the First Assistant Commissioner, applicant's chief contention was that opposer had failed to prove its alleged use of the mark upon which it relied. The First Assistant Commissioner said that no testimony was taken by either party, but opposer filed a copy of its registration and also filed, as an exhibit, a box of one of its products bearing the registered mark, and the notation, "Produced by Oxo Ltd., in London, England, for Oxo (United States of America) Ltd., Boston, Mass." The applicant took the position that this exhibit negatived use by opposer of the registered mark in this country.

The First Assistant Commissioner assumed, without deciding, that applicant's position was tenable, but held that the decision of the Examiner of Trade-mark Interferences must, nevertheless, be affirmed on authority of *Dubonnet Wine Corporation* v. *Ben-Burk, Inc.*, 28 C. C. P. A. 1298, 121 Fed.(2d) 508, from which he quoted at length.

EX PARTE KRAUS BROS. & CO., INC., Serial No. 436,870.

In a decision rendered April 16, 1942 (163 Ms. Dec. 915, 53 U. S. P. Q. 315), *Assistant Commissioner Van Arsdale* affirmed the action of the Examiner of Trade-Marks in refusing registration under the act of March 19, 1920, to Kraus Bros. & Co., Inc., of New York, N. Y., of the mark "St. Martin" for rum.

The Examiner cited a prior registration of the mark "San Martin". The Assistant Commissioner agreed with the Examiner that applicant's mark and the registered mark are confusingly similar and are applied to goods of the same descriptive properties.

EX PARTE THE CELOTEX CORPORATION, Serial No. 385,970.

In a decision rendered April 16, 1942 (163 Ms. Dec. 916, 53 U. S. P. Q. 314), *Assistant Commissioner Van Arsdale* affirmed the action of the Examiner of Trade-Marks in refusing registration to The Celotex Corporation, of Chicago, Ill., of the mark "Acousti" for sheet form or tile form units used for acoustical correction or sound insulation.

The Assistant Commissioner stated that it appeared that applicant had never used the word "Acousti" alone, but only in combination with the word "Celotex", as in applicant's previously registered trade-mark "Acousti-Celotex," applied to decorative wall finish used for acoustical correction or sound deadening. He concluded that the Examiner was correct in refusing registration on the ground that the mark "Acousti" is only a fragmentary part of, and a mutilation of applicant's mark "Acousti-Celotex" and is not, by itself, a trade-mark that has been used by applicant.

EX PARTE WESTERN STOVE CO. INC., Serial No. 443,062.

In a decision rendered April 17, 1942 (163 Ms. Dec. 919, 53 U. S. P. Q. 316), *Assistant Commissioner Van Arsdale* remanded to the Examiner of Trade-Marks the application of Western Stove Co. Inc., of Culver City, Calif., for registration of the mark "Western Holly" for gas and electric space heaters and cooking ranges and air conditioners and evaporative coolers employing electric fans working in conjunction with either evaporative water-cooling systems or electric refrigeration systems.

The Examiner had refused registration in view of a prior registration of a mark consisting of the words "The Western" printed in peculiarly formed letters for furnaces using wood, coal or oil. Before the Assistant Commissioner the applicant maintained that the word "Western" is merely an abstract geographical term and therefore the word "Holly" in applicant's mark is the dominating feature thereof, and is so dominant in applicant's mark and is so different from the mark of the cited registration that there is no confusing similarity between the marks "Western Holly" and "The Western," particularly if applicant disclaimed the word "Western" of his mark, as applicant offered to do.

The Assistant Commissioner agreed with the applicant that the word "Western," as used in applicant's mark, is geographical and should be disclaimed, and that the word "Holly" dominates the mark, particularly when the word "Western" is disclaimed. He concluded that the word "Western" of the mark would be accorded slight, if any, trade-mark significance by the public and purchasers, and predominantly the trade-mark significance would be attached to the word "Holly".

In remanding the application to the Examiner for further action not inconsistent with his opinion, the Assistant Commissioner stated:

"The cited registration is presumed to be valid and the marks must be considered in their entireties. However, considering the specific differences in the goods, the fact that the goods are such as are usually purchased with care and discrimination, the geographical nature of the word 'Western' as used in applicant's mark and the dominance of trade-mark significance attaching to the word 'Holly', the absence in the registered mark of anything similar to the word 'Holly', and the difference in significance between the marks, it is my opinion that considering the marks in their entireties the concurrent use of the marks as shown and applied to goods stated will not be likely to cause confusion or mistake on the part of the public or to deceive purchasers.

"However, * * * it is my opinion that disclaimers should be made of the word 'Western' of applicant's mark."

EX PARTE CHARLES GOLDFUS, DOING BUSINESS AS CHARLES WINE & IMPORT CO., Serial No. 416,324.

In a decision rendered April 17, 1942 (163 Ms. Dec. 917, 53 U. S. P. Q. 317), *Assistant Commissioner Van Arsdale* reversed the action of the Examiner of Trade-Marks in refusing registration under the act of March 19, 1920, to Charles Goldfus, doing business as "Charles Wine & Import Co." of Minneapolis, Minn., of a mark consisting of the name "Charles I" in prominent, Old English letters, under a picture intended to represent King Charles I of England, and below the name, but spaced considerably therefrom, the name "Charles Wine and Import Co."

The Assistant Commissioner stated that he understood the Examiner's position to be that, because the name "Charles Wine and Import Co." appears on the drawing, the mark is not registrable under the act of February 20, 1905 and because the other features of the mark, if presented without association with the name "Charles Wine and Import Co." would be registrable under the act of February 20, 1905, the entire mark is not registrable under the act of March 19, 1920 "for the reason that it comprises dominantly arbitrary matter registrable under the 1905 act".

In disagreeing with the position of the Examiner, the Assistant Commissioner said:

"The act of March 19, 1920 sets up a register for two classes of marks, (*a*) and (*b*). The provisions relating to the (*b*) marks apply here. As to these marks the act states that 'All other marks not registrable under the act of February 20, 1905, as amended', with certain exceptions and requirements, shall be placed on the register. I do not find in the law any proviso or exception to the effect that marks not registrable under act of February 20, 1905 shall not be placed on the register if they include dominantly arbitrary matter registrable under the 1905 act.

"Registrability of the mark as a whole is involved. The component parts thereof are not presented separately for separate registration. The Examiner has held the mark as a whole not registrable under the 1905 act, and since the mark does not appear to be disqualified from registry by any proviso or exception included in the act of 1920, it seems to me that that act requires the mark to be registered thereunder."

AMERICAN PHARMACEUTICAL CO. INC. *v.* DR. MILES MEDICAL CO. (BY CHANGE OF NAME, MILES LABORATORIES), Cancellation No. 3,701.

In a decision rendered April 17, 1942 (163 Ms. Dec. 918, 53 U. S. P. Q. 315), *Assistant Commissioner Van Arsdale* denied a petition brought by American Pharmaceutical Co., Inc., of New York, N. Y., in this proceeding for the cancellation of trade-mark registration No. 283,831 for "Anti-acid Effervescent Preparations", issued June 9, 1931 to Dr. Miles Medical Company (by change of name, Miles Laboratories), of Elkhart, Ind. American Pharmaceutical Co., Inc., petitioned the Commissioner to exercise supervisory authority and vacate the stay of proceedings granted by the Examiner of Interferences.

With reference to a suit in the Supreme Court of the State of New York, between the registrant and the petitioner, the Assistant Commissioner stated:

"It appears that in May 1935 the registrant in this proceeding filed suit in the Supreme Court of the State of New York against the petitioner herein charging infringement of the trade-mark here sought to be canceled, and unfair competition. Petitioner filed answer denying the charges of infringement and unfair competition and a counterclaim including a prayer for judgment that the registration against which the notice of cancellation herein is directed be declared improperly granted and void and 'That plaintiff be ordered to surrender the aforesaid registration to the United States Patent Office for cancellation'. This application for cancellation was not filed until May 3, 1940. Meanwhile in the State court suit hearings are now in progress before a referee appointed by the court."

In denying the petition, the Assistant Commissioner said:

"Considering the respective dates when the State court suit was filed and when the application for cancellation was filed, the stage of prosecution which the State court suit had reached when this cancellation proceeding was filed, and the fact that in the State court suit cancellation of the presently involved registration was prayed for, I consider there was no such abuse of discretion on the part of the Examiner in granting the stay of these proceedings as warrants the Commissioner exercising supervisory authority or directing that the stay be vacated.

"The facts here are not the same as they were in the case of *Dwinell-Wright Co. v. National Fruit Products Co. Inc.*, 535 O. G. 693, 52 U. S. P. Q. 184, cited by petitioner. One principal difference is that in the case cited cancellation of the registration involved was not prayed for in the State court suit."

MEEM-HASKINS COAL CORP. *v.* CENTRAL FUEL CORP., Opposition No. 20,173.

In a decision rendered April 20, 1942 (163 Ms. Dec. 920, 53 U. S. P. Q. 318), *Assistant Commissioner Van Arsdale* reversed the decision of the Examiner of Trade-Mark Interferences and thereby dismissed the opposition of Meem-Haskins Coal Corp. of Bluefield, West Virginia, to the application of Central Fuel Corp. of Chicago, Ill., for registration of the trade-mark "Original Green Ridge" for coal.

As stated by the Assistant Commissioner, the opposer owns coal mining property and mines coal therefrom, while applicant is in the business of acting as exclusive sales agents for mines. Opposer's mine was one of those mines, and the trade-mark in issue was applied to the coal produced at that mine. Applicant's predecessor in business, Carbon Glow Mines, Incorporated, had previously been sales agent for this coal.

Before the Assistant Commissioner the applicant alleged that the mark designates applicant as the source from which the coal is obtainable by the public, and opposer alleged it designates opposer as the producer of the coal. The Assistant Commissioner stated that:

"Thus each party asserts the name indicates its own company as the source of origin of the coal and claims ownership and use of the mark in its business."

He added:

"The predominant question on this appeal appears to be whether the use of the mark was by applicant in its own business of selling the coal as exclusive sales agent of opposer and establishes applicant as owner of the mark or whether the use of the mark establishes ownership and use of the mark by opposer through applicant acting as agent of the opposer."

In setting forth the facts of the case, the Assistant Commissioner said:

"Both the Examiner and opposer refer to a prior use of the name 'Green Ridge' on coal from two mines owned by opposer. Opposer sold one of the mines and thereafter the name 'Green Ridge' continued to be applied to coal from that mine only, and ceased to be applied to coal from the mine retained by opposer, being replaced by the name 'Original Green Ridge'. Such previous use of the name 'Green Ridge' on coal from opposer's mines has not been pleaded and opposer was not using the mark when the notice was filed. Therefore present damage to opposer cannot be predicated on said previous and discontinued use of the mark 'Green Ridge'.

"The parties operated under a written agreement between them. Unfortunately this agreement was not introduced in evidence, so the relationship between the parties must be ascertained otherwise from the record.

"It appears that under the arrangement between the parties applicant secured orders for the coal, forwarded the orders to opposer for shipment from the mines to the customer, paid for advertising and distributing the coal and billed the customers and collected the amounts of the bills. It does not appear how or on what basis the amounts collected were apportioned between the parties, or to what extent, if any, applicant was reimbursed for sums spent for advertising and distributing the coal. Applicant's name and not opposer's appeared on the orders and copies of orders and advertising matter. Further it appears that applicant made the contracts with the purchasers and opposer shipped the coal to the purchasers for the account of the applicant.

"Applicant's predecessor in business in soliciting orders as exclusive selling agents for the 'Original Green Ridge' mine located at Emmet, Kentucky, assured the trade that the coal would be the original product of that mine and that customers could 'depend upon its quality, preparation and service.'

"On the order blanks of applicant's predecessor in business that company's name appeared as the seller and there was printed on the order slip the following:

"'Seller is responsible for any loss occasioned by improper preparation of coal or coke and for any loss occasioned by failure to ship in accordance with agreement of purchase or through failure to properly forward prompt notice of shipment.'

"Apparently the understanding was that applicant, or its predecessor in business would not apply the name to any coal other than that particular coal from that particular mine. However applicant at times, and without objection by opposer, did ship coal like opposer's coal in grade and character, but produced at other mines, in filling orders for 'Original Green Ridge' coal to meet exceptional situations. Also, during a brief period when applicant was unable to function, opposer, without objection from applicant, arranged with other concerns to sell opposer's coal under the name 'Original Green Ridge'. I regard these instances of departure from the normal routine of operation under the agreement as insignificant since they were due to special circumstances and were so recognized by both parties.

"The above, I think, gives a fair picture of what the record shows, except possibly it may be added that apparently it was an officer of applicant's company who suggested the name for the coal."

In concluding that the opposition should have been dismissed, the Assistant Commissioner stated:

"Thus it appears that although applicant was known as opposer's selling agent, actually applicant's business of selling the coal under the trade-mark 'Original Green Ridge' was its own business and not the business of opposer, and I believe this was recognized by purchasers from the fact that applicant's name, and not opposer's, appeared on the advertising and order blanks, that orders were directed to applicant and the purchase price was to be paid to applicant on bills rendered by applicant, and applicant was responsible for supplying purchasers with the coal that was ordered and for its condition. Opposer was obligated merely to ship the coal as and when ordered to do so by applicant and for the account of applicant, and opposer was obligated to applicant and not applicant's customers to maintain the character, quality and condition of the coal.

"I do not consider the application of the mark by opposer, at the request of applicant, to coal shipped to applicant's customers on applicant's orders and for applicant's account to constitute trade-mark use of the mark by opposer in its business of producing coal and allowing it to be sold by applicant.

"Accordingly it is my opinion that opposer has not shown such ownership of the mark or such use of the mark on coal in its business as would be likely to cause the use of the mark by applicant to result in confusion or in damage to opposer."

SIMON ACKERMAN CLOTHES, INC., *v.* EAGLE CLOTHES, Cancellation No. 3658.

In a decision rendered April 22, 1942 (163 Ms. Dec. 924, 53 U. S. P. Q. 320), *First Assistant Commissioner Frazer* reversed the decision of the Examiner of Trade-mark Interferences and thereby dismissed the petition by Simon Ackerman Clothes, Inc., of New York, N. Y., to cancel trade-mark registration No. 374,293, issued January 2, 1940, under the provisions of the act of March 19, 1920, to the party Eagle Clothes, also of New York, N. Y.

This registered mark of the respondent is the name "Scott Barrie." The mark relied upon by petitioner was the name "Chester Barrie" displayed in association with a pictorial feature, and previously registered under the act of February 20, 1905. Both marks are appropriated to identical items of men's wearing apparel.

The Examiner sustained the petition for cancellation upon the ground that the resemblances of the marks

"predominate over their differences to an extent that their concurrent use in trade would be reasonably likely to cause confusion."

However, the First Assistant Commissioner found it unnecessary to pass upon the correctness of that ruling. He took another view of the case, which view he expressed as follows:

"It is now well established that in order to prove itself injured by the registration of a mark alleged to be confusingly similar to its own technical trade-mark, a petitioner for the cancellation of such registration must show that it was using its trade-mark at or about the time of filing the petition. *Old Monk Olive Oil Co. v. Southwestern Coca-Cola Bottling Co.*, 28 C. C. P. A. 1091, 118 Fed.(2d) 1015. In the instant case petitioner had made no use of the mark upon which it relies for a period of some fifteen months immediately preceding the date on which its petition was filed. This fact appears from petitioner's own testimony, and is not in dispute.

"Since October, 1938, a corporation known as Chester Barrie, Inc., has sold clothing of petitioner's manufacture bearing petitioner's registered mark; and because that corporation is a wholly owned subsidiary of petitioner, the Examiner was of the opinion that its use of the mark 'inures to the benefit of its principal.' Broadly speaking that is doubtless true, but it does not follow that petitioner is thereby qualified to maintain this proceeding. Chester Barrie, Inc., is a legal entity, separate and apart from the owner of its capital stock; and the latter can suffer no injury within the meaning of the Trade-Mark Act by reason of any alleged interference with that concern's use of the mark. *De Sanno v. Lieb*, 27 C. C. P. A. 728, 107 Fed. (2d) 615. The petition to cancel should have been filed, if at all, by Chester Barrie, Inc."

THE PROCTER & GAMBLE CO. *v.* CLARK-CLEVELAND, INCORPORATED, Opposition No. 20,351.

In a decision rendered April 22, 1942 (163 Ms. Dec. 923, 53 U. S. P. Q. 321), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of The Procter & Gamble Co., of Cincinnati, Ohio, to the application of Clark-Cleveland, Incorporated, of Binghampton, N. Y., for registration of the word "Zelle" as a trade-mark for "a liquid cleaner for teeth."

The opposer relied upon its own prior use and alleged ownership of two trade-marks, namely, "Teel" for a liquid dentifrice, and "telle" for a liquid hair shampoo. The Examiner considered only the latter of these marks, which he held to be confusingly simulated by applicant's mark, and appropriated to merchandise of the same descriptive properties. The First Assistant Commissioner agreed with this conclusion, stating:

"That a dentifrice and a shampoo possess the same descriptive properties within the meaning of the Trade-Mark Act there can be no question, and it is equally clear to me that as applied to such goods the two marks 'telle' and 'Zelle' are so nearly alike in appearance and in sound as to be likely to cause confusion."

The "telle" mark was registered to a third party, and opposer claimed ownership by assignment. The applicant questioned the sufficiency of opposer's proofs in that regard, but the First Assistant Commissioner agreed with the Examiner that opposer's actual use of the mark was shown to have antedated applicant's claimed date of first use. He stated that, even were it conceded that opposer did not own the registration, that fact would have no material bearing upon the ultimate issue presented, citing *Dubonnet Wine Corporation* v. *Ben-Burk, Inc.*, 28 C. C. P. A. 1298, 121 Fed.(2d) 508.

Although the Examiner made no ruling with respect to opposer's mark "Teel", the First Assistant Commissioner did. He stated:

"The record discloses that opposer had been using this mark upon a liquid dentifrice for some months before applicant's first use of 'Zelle.' 'Teel' and 'Zelle' are

not so nearly similar as are 'telle' and 'Zelle,' but in view of the fact that they are used on substantially identical merchandise, I am unable to say without doubt that there is no reasonable likelihood of confusion between them, and any doubt in that regard must, of course, be resolved in opposer's favor. The opposition is thus sustained upon the further ground that applicant's mark is confusingly similar to opposer's trade-mark 'Teel.'"

EX PARTE RENÉE LACOSTE, Serial No. 389,919.

In a decision rendered April 24, 1942 (163 Ms. Dec. 926, 53 U. S. P. Q. 388), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks in refusing registration to Renée Lacoste, of Detroit, Mich., of the notation "Duchess of Windsor" as a trade-mark for perfumes. In his statement on appeal, the Examiner said:

"The ground of refusal to register is that the mark is the name or title of a particular individual. Registration has also been refused on the ground that the mark, in its commercial application, constitutes scandalous matter."

The First Assistant Commissioner stated that he was not so sure that the mark constitutes scandalous matter, but that he was clearly of the opinion that it "consists merely in the name of an individual," and is thus forbidden registration by the express language of the statute.

The applicant pointed out that at the time her application was filed, on March 11, 1937, there was no such person as the Duchess of Windsor, and, in her brief, presented the following argument:

"The important fact is that applicant's rights to the trade-mark were established before there was anyone known by the title 'Duchess of Windsor'. The fact that, after applicant's rights have been established, someone else becomes known by the same words that are applicant's trade-mark is immaterial."

With reference to this argument and further arguments of the applicant, the First Assistant Commissioner said:

"As supporting authority applicant cites the Commissioner's decision in the case of *Oldetyme Distillers, Inc.*, v. *Motlow*, 463 O. G. 701, 28 U. S. P. Q. 133, where it was held 'that in order for an opposer to defeat registration of its corporate name it must be in existence at the time the application is filed.' It is applicant's position that no distinction is permissible in that regard between the name of a corporation and the name of an individual, but in my opinion that position is untenable. Its significance as a name is inherent in the name of an individual, whereas the name of a corporation has no significance as such until adopted. The House of Windsor is the royal family of Great Britain, and a duchess is the wife or widow of a duke. The name significance of the expression 'Duchess of Windsor' is thus apparent, and it had that significance when this application for its registration as a trade-mark was filed."

EX PARTE KRAFT CHEESE COMPANY, Serial No. 432,724.

In a decision rendered April 24, 1942 (163 Ms. Dec. 927, 53 U. S. P. Q. 390), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks in refusing registration to Kraft Cheese Company, of Chicago, Ill., under the provisions of the act of February 20, 1905, of the words "Old English," printed in Old English type, as a trade-mark for cheese.

The Examiner based his refusal to register on the ground that the mark is merely geographical. In his decision the First Assistant Commissioner stated:

"Applicant argues that the expression 'Old English' designates a period in history, and hence is not merely geographical. As applied to cheese, however, the word 'English' has a descriptive significance, and the word 'Old' is purely descriptive. Moreover, applicant has disclaimed the word 'English,' conceding that word alone to be merely geographical; so that its mark as now presented is dominated by the descriptive word 'Old,' which is manifestly incapable of denoting origin.

"The mark is registrable, if at all, under the act of March 19, 1920."

EX PARTE C. F. BATTENFELD OIL CO., Serial No. 423,591.

In a decision rendered April 24, 1942 (163 Ms. Dec. 928, 53 U. S. P. Q. 389), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks in refusing registration to C. F. Battenfeld Oil Co. of Detroit, Mich., under the provisions of the act of March 19, 1920, of the notation "Car Dealers Motor Oil" as a trade-mark for "fuel and lubricating oils." The Examiner refused registration on the ground that such notation "does not function as a trade-mark."

In his decision the First Assistant Commissioner said:

"It is my opinion * * * that the expression 'Car Dealers Motor Oil' would fail to impress the public as having any trade-mark significance. Rather I think it would indicate to purchasers merely a particular type of motor oil, without reference to origin. Moreover, as applied to fuel oil the mark is deceptive, and is nonregistrable as presented for that additional reason."

J. S. TYREE, CHEMIST, INC., *v.* THYMO BORINE LABORATORY, Opposition No. 19,931.

In a decision rendered April 27, 1942 (163 Ms. Dec. 930, — U. S. P. Q. —), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of J. S. Tyree, Chemist, Inc., of Washington, D. C., to the application of Thymo Borine Laboratory, of Milwaukee, Wis., for registration of the notation "Ty-Reen" as a trade-mark for antiseptics. The opposition was predicated upon opposer's prior use of several trade-marks, including "Tyree's Powder" and "Tyree's Antiseptic Powder," both registered under the ten-year proviso of the act of February 20, 1905, for antiseptic powder. In referring to these marks, the First Assistant Commissioner said:

"Manifestly each of these marks is dominated by the name 'Tyree's,' which is so nearly similar, in sound at least, to applicant's mark 'Ty-Reen,' as to be reasonably likely to be confused therewith. *Marion Lambert, Inc., v. O'Connor*, 24 C. C. P. A. 781, 86 Fed. (2d) 980.

"Applicant insists that the goods of the parties are of different descriptive properties, because, as asserted in applicant's brief, opposer's product 'is essentially a vaginal douche powder,' and applicant's product is a mouthwash. This contention is not supported by the record. While opposer's powder appears to be widely used in solution as a douche, it is also recommended as a general antiseptic for the treatment of cuts, insect bites, etc., and even for use as a gargle. And while applicant's mark is now used only on a liquid mouthwash, the goods for which registration is sought are described in the application merely as 'antiseptics;' and that term is, of course, sufficiently broad to include the identical goods to which opposer's mark is applied."

FAWCETT PUBLICATIONS, INC., *v.* CRIME CONFESSIONS, INC., Opposition No. 19,891.

In a decision rendered April 27, 1942 (163 Ms. Dec. 929, — U. S. P. Q. —), *First Assistant Commissioner Frazer* reversed the decision of the Examiner of Trade-Mark Interferences and thereby sustained the opposition of Fawcett Publications, Inc., of Greenwich, Conn., to the application of Crime Confessions, Inc., of New York, N. Y., for registration of the notation "Crime Confessions" as a trade-mark for a monthly publication. One ground of opposition pleaded in the notice was opposer's ownership, and long prior use, of the trade-mark "True Confessions," registered under the act of February 20, 1905, for goods of the same description. With reference to the publications of the parties, the First Assistant Commissioner said:

"The publications of both parties are cheap magazines of the lurid type, differing chiefly in the fact that while applicant's magazine is devoted exclusively to stories of crime, opposer's magazine includes also stories of mere transgression. Manifestly the two publications are directly competitive, and are likely to be sold to a somewhat nondiscriminatory class of purchasers."

As stated by the First Assistant Commissioner, the Examiner, in dismissing the opposition, expressed the view that

"the word 'Confessions' taken alone is inherently incapable of distinguishing one magazine of such type from another which it may similarly characterize,"

and the Examiner concluded that purchasers would look to the words "True" and "Crime" of the respective marks as denoting origin of the goods. However, the First Assistant Commissioner noted that opposer's mark is registered under the act of 1905 and the word "Confessions" is not disclaimed in the registration. He stated that hence the mark as a whole must be regarded as valid, and the fact that it may include a word that is descriptive or publici juris has no bearing upon the question of its possible confusion with applicant's mark. He cited the case of *Skelly Oil Co.* v. *Powerine Co.*, 24 C. C. P. A. 790, 86 Fed. (2d) 752.

The First Assistant Commissioner concluded that both marks are dominated by the word "Confessions" and, considering the nature of the merchandise to which they are applied, they are too nearly alike to be used concurrently without a reasonable likelihood of resulting confusion.

ROGERS PEET COMPANY *v.* STROM, COLLUM & HOPPE, Opposition No. 20,094.

In a decision rendered April 30, 1942 (163 Ms. Dec. 931, — U. S. P. Q. —), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of Rogers Peet Company, of New York, N. Y., to the application of Strom, Collum & Hoppe, of San Francisco, Calif., for registration of the word "Scotsman" as a trade-mark for

"men's and boys' knitted and textile products—namely, hosiery, sport and conventional sweaters, jackets and outer shirts, and underwear."

The opposition was predicated upon opposer's ownership of the trade-marks "Scotchmoor," "Scotchmoors" and "Scotch Mist," appropriated respectively to men's top coats, men's and boys' suits, and hats and caps, and all registered prior to applicant's first use of the trade-mark it sought to register.

The First Assistant Commissioner concluded that the several items of wearing apparel produced by the parties are so closely related in use and in the mind of the public that their concurrent sale under similar trade-marks would be very likely to confuse purchasers as to origin. The applicant argued that, because the words "Scot" and "Scotch" have been "widely used in the merchandise field to indicate a good grade of wool," and are embodied in a large number of registered trade-marks for wearing apparel, those words should be disregarded in comparing applicant's mark with the marks of opposer to determine the question of possible confusion. In its brief the applicant made the following assertion:

"The courts have repeatedly held that, where the only feature, common to the trade-marks of applicant and opposer which might lead to confusion, is descriptive, geographical, or otherwise generic, the opposition should not be sustained."

In response to this argument, the First Assistant Commissioner stated that it is true that such rulings have been made but they are contrary to the more recent authorities and are no longer followed in the Patent Office. He cited *Pepsodent Co.* v. *Comfort Manufacturing Co.*, 23 C. C. P. A. 1224, 83 Fed. (2d) 906 and *Skelly Oil Co.* v. *Powerine Co.*, 24 C. C. P. A. 790, 86 Fed. (2d) 752. He applied the rules set forth by the Court of Customs and Patent Appeals in the latter case, and said:

"I am convinced that applicant's mark bears sufficient resemblance to each of opposer's marks as to be reasonably likely to confuse purchasers. There is some similarity in appearance and in sound; and all of the marks have a significance pertaining to Scotland, which significance would, I think, impress the mind of the casual observer to the exclusion of their precise meaning. At least the question is not free from doubt; and as observed by the Examiner of Interferences, any doubt in that regard must be resolved in opposer's favor."

The opposer suggested that applicant had failed to prove use of its mark in interstate commerce and that the proposed registration should be refused on that ground. However, the First Assistant Commissioner stated that, in the absence of evidence to the contrary, no further showing of use than the sworn application for registration is required, citing *General Baking Co.* v. *Commander-Larabee Corporation*, 23 C. C. P. A. 973, 82 Fed. (2d) 427.

EX PARTE HARRY C. WOLFENDEN, Serial No. 420,838.

In a decision rendered April 30, 1942 (163 Ms. Dec. 933, — U. S. P. Q. —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks in refusing registration under the provisions of the act of February 20, 1905, to Harry C. Wolfenden, of Attleboro, Mass., of the notation "Flekdye" as a trade-mark for yarn. The Examiner refused registration on the ground that the mark is descriptive of the goods, being a phonetic misspelling of the words "Fleck Dye". In his decision the First Assistant Commissioner said:

"It is argued in the brief that 'because it is not descriptive of any part or characteristic of thread or yarn,' the mark should be registered upon authority of *In re Irving Drew Co.*, 54 App. D. C. 310, 297 Fed. 889, where the Court of Appeals of the District of Columbia held the expression 'Arch Rest' to be nondescriptive of boots, shoes, and slippers, and permitted its registration as a trade-mark for such goods, because, as stated in the

opinion, there is 'no part of boots, shoes, or slippers which is commonly known as the arch rest, and from that it follows that "arch rest" cannot be considered as descriptive of such articles.' The doctrine of that case is, however, contrary to the weight of authority, and was in effect repudiated by the same court in the much later case of *Kay & Ess Co. v. Cos*, 68 App. D. C. 3, 92 Fed.(2d) 552. Moreover, the reasoning of the Drew case is not particularly applicable here. The statute prohibits the registration of marks 'which are descriptive of the goods with which they are used, or of the character or quality of such goods.' And the manner in which a yarn is dyed certainly pertains to the character or quality of the yarn."

The applicant pointed to other marks that have been registered, which he asserted to be no less descriptive than the one upon which the Examiner refused registration, and he also cited his own registration of the same mark for other goods. With reference to said registration the First Assistant Commissioner said:

"The propriety of these prior registrations is not before me for determination, nor do they have any bearing upon the instant application. The fact, if it be a fact, that invalid registrations have previously been issued, affords no warrant for the addition of one more to their number."

U. S. GOVERNMENT PRINTING OFFICE: 1942

TRADE-MARKS

OFFICIAL GAZETTE, MAY 26, 1942

[VOL. 538. No. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 450,539. HERCULES POWDER COMPANY, Wilmington, Del. Filed Jan. 28, 1942.

Poly-pale

No claim is made to the word "Pale" apart from the mark.

FOR RESIN FOR USE IN VARNISHES, SYNTHETIC RESINS, INKS, ADHESIVES, CORE OILS, RESINATES, AND OTHER USES WHERE HIGH-MELTING-POINT, NON-CRYSTALLIZING RESIN IS REQUIRED.

Claims use since Sept. 12, 1941.

Ser. No. 451,373. WILLIAM C. ATWATER & CO. INC., New York, N. Y. Filed Mar. 4, 1942.



The words "Atwater" and "Pocahontas" are disclaimed apart from the mark.

FOR COAL.

Claims use since Apr. 19, 1934.

Ser. No. 451,657. O. M. SCOTT & SONS COMPANY, Marysville, Ohio. Filed Mar. 16, 1942.

Garden Club

FOR GRASS SEED.

Claims use since Feb. 26, 1942.

CLASS 2

RECEPTACLES

Ser. No. 450,141. NEW ENGLAND CALENDAR COMPANY, Boston, Mass. Filed Jan. 10, 1942.



The word "Kit" is disclaimed apart from the mark.

FOR EMPTY FIRST AID CASES MADE OF LEATHER, SIMULATED LEATHER, FABRICS, PAPER, PLASTICS, WOOD, AND METAL.

Claims use since Dec. 15, 1941.

Ser. No. 452,090. NEW ENGLAND COLLAPSIBLE TUBE CO., New London, Conn. Filed Apr. 1, 1942.

Sheffalloy

FOR SPECIAL ALLOY COLLAPSIBLE TUBES TO BE USED AS A SUBSTITUTE FOR TIN TUBES, CAPS FOR SUCH COLLAPSIBLE TUBES, AND CANS OF COLLAPSIBLE TUBE TYPE OF CONSTRUCTION, THE COLLAPSIBLE TUBES AND THE CANS OF COLLAPSIBLE TUBE TYPE OF CONSTRUCTION BEING SOLD IN THE TRADE EMPTY.

Claims use since Dec. 1, 1941.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 451,971. FISCH AND COMPANY, LTD., Los Angeles, Calif. Filed Mar. 28, 1942.

Pony Express

FOR PORTFOLIOS, BRIEF-CASES, POCKETBOOKS, BILLFOLDS, WALLETS, AND TRAVEL CASES FOR TOILETRIES MADE OF LEATHER.
Claims use since Oct. 24, 1941.

Ser. No. 452,043. HEIMER BROS., INC., New York, N. Y. Filed Mar. 31, 1942.

Glaxies

FOR LADIES' HANDBAGS AND PURSES.
Claims use since Jan. 1, 1942.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 441,824. L & L PRODUCTS, Chicago, Ill. Filed Mar. 22, 1941.

EFFORTLESS

FOR CLEANING POWDER PREPARATION USED FOR REMOVING RUST AND LIKE STAINS FROM CHROMIUM AND NICKEL PLATING AND FOR POLISHING PURPOSES.
Claims use since Jan. 17, 1941.

Ser. No. 443,832. ANN R. BERNSTEIN, doing business as A B C Co., New York, N. Y. Filed May 23, 1941.

ABC

FOR VEGETABLE SOAP.
Claims use since Mar. 26, 1937.

Ser. No. 448,389. FREDERIC LAMBERT, New York, N. Y. Filed Nov. 4, 1941.

Defenseez

FOR HAND CLEANER SOAP POWDER.
Claims use since Oct. 15, 1941.

Ser. No. 450,229. HUNTINGTON LABORATORIES, INC., Huntington, Ind. Filed Jan. 15, 1942.

SPRAY-SAN

The word "Spray" is disclaimed apart from the mark.
FOR LIQUID SOAP FOR CLEANSING WOOD, LINOLEUM, TERRAZZO, MARBLE, TILE, AND SIMILAR SURFACES.
Claims use since May 25, 1935.

Ser. No. 450,754. TURCO PRODUCTS, INC., Los Angeles, Calif. Filed Feb. 4, 1942.

CARBRAX

FOR COMPOUND FOR CLEANING AUTOMOTIVE AND AIRCRAFT ENGINE PARTS AND FOR OTHER DETERGENT PURPOSES.
Claims use since Feb. 15, 1938.

Ser. No. 450,987. AMERICAN OIL COMPANY, Baltimore, Md. Filed Feb. 16, 1942.

AMOCO

The drawing is lined for red and black.
FOR SOAP AND CLEANING SOLVENT FOR USE AS A GENERAL GREASE SOLVENT AND DIRT REMOVER, FRENCH DRY CLEANER, HOUSEHOLD CLEANER INCLUDING WOODWORK AND UPHOLSTERY, AND HAVING INCIDENTAL PROPERTIES AS A PAINT THINNER.
Claims use since Jan. 22, 1933.

Ser. No. 450,989. AMERICAN OIL COMPANY, Baltimore, Md. Filed Feb. 16, 1942.

AMOCO

FOR SOAP AND CLEANING SOLVENT FOR USE AS A GENERAL GREASE SOLVENT AND DIRT REMOVER, FRENCH DRY CLEANER, HOUSEHOLD CLEANER INCLUDING WOODWORK AND UPHOLSTERY, AND HAVING INCIDENTAL PROPERTIES AS A PAINT THINNER.
Claims use since Jan. 22, 1933.

Ser. No. 451,181. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio. Filed Feb. 23, 1942.

IVORY SOAP PROCTER & GAMBLE

Applicant is the owner of Reg. No. 76,091 and numerous other registrations including the name "Procter & Gamble." The word "Soap" is disclaimed apart from the mark. The drawing is lined for blue.
FOR SOAP.
Claims use since October, 1939.

Ser. No. 451,377. GUY J. BANTA, doing business as Banson Products Co., Los Angeles, Calif. Filed Mar. 4, 1942.

fiz-o-foam

FOR SCENTED EFFERVESCENT FOAMING BATH POWDER USED AS A SUBSTITUTE FOR SOAP.
Claims use since Nov. 15, 1940.

Ser. No. 451,518. VON SCHRADER MANUFACTURING COMPANY, Racine, Wis. Filed Mar. 9, 1942.

MAIN-TEEN

FOR DRY CLEANING POWDER FOR RUGS.
Claims use since Jan. 28, 1942.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 439,007. AKTIEBOLAGET LAUXEIN-CASCO, Stockholm, Sweden. Filed Dec. 19, 1940.

DANOOREN

FOR SEED DISINFECTANTS AND IMPREGNATIONS FOR WOOD, TEXTILES, AND OTHER POROUS STUFFS TO PROTECT THEM AGAINST MOISTURE, ROT, MOULD, INSECTS, AND FIRE.
Claims use since Feb. 15, 1940.

Ser. No. 443,362. KEPEC CHEMICAL CORPORATION, Milwaukee, Wis. Filed May 8, 1941.

RICCOTAN

FOR TANNING AGENTS FOR USE IN THE LEATHER INDUSTRY.
Claims use since Jan. 7, 1941.

Ser. No. 443,483. EMERY INDUSTRIES, INC., Cincinnati, Ohio. Filed May 12, 1941.

UNIFORM QUALITY Emery ESTAB. 1840

No claim is made to the words "Uniform Quality" and "Estab. 1840" apart from the mark. Applicant is owner of T. M. Reg. Nos. 354,289 and 363,690 effected under the 10-year proviso.
FOR SOLID FATTY BODIES SUCH AS STEARIC ACID AND THE LIKE.
Claims use since 1926.

Ser. No. 444,241. STAUFFER CHEMICAL COMPANY, INC., San Francisco, Calif., and New York, N. Y. Filed June 5, 1941.

3M

FOR SULPHUR.
Claims use since Apr. 5, 1941.

Ser. No. 446,210. MINER'S, INC., New York, N. Y. Filed Aug. 13, 1941.

POUR YOURSELF a pair of STOCKINGS

No claim is made to the word "Stockings" apart from the mark.
FOR LIQUID MAKEUP FOR THE BODY, PARTICULARLY THE LIMBS.
Claims use since January, 1940.

Ser. No. 446,713. LILLIAN H. WEGNER, Chicago, Ill. Filed Aug. 30, 1941.

Suthe

FOR SKIN LOTION.
Claims use since May 15, 1941.

Ser. No. 450,374. LOUIS NAPOLITAN, doing business under name of M. Louis, New Nork, N. Y. Filed Jan. 21, 1942.

Plastique

FOR COIFFURE PRESERVING FLUID.
Claims use since February, 1940.

Ser. No. 450,376. PARFUMS SCHIAPARELLI, INC., New York, N. Y. Filed Jan. 21, 1942.

Spanking

FOR PERFUMES AND TOILET WATERS.
Claims use since Jan. 19, 1942.

Ser. No. 450,377. PARFUMS SCHIAPARELLI, INC., New York, N. Y. Filed Jan. 21, 1942.

Spanking de Schiaparelli

The mark "Schiaparelli" comprises the autographic surname signature of Elsa Schiaparelli, president of applicant corporation.
FOR PERFUMES AND TOILET WATERS.
Claims use since Jan. 19, 1942.

Ser. No. 451,544. VITAPEP PRODUCTS, INC., Los Angeles, Calif. Filed Mar. 6, 1942.

Vitaroal

FOR PREPARED THERAPEUTIC VITAMIN SUPPLEMENT FOR PETS.
Claims use since Nov. 3, 1941.

Ser. No. 451,792. AMERICAN GLOSSITE CO., INC., New York, N. Y. Filed Mar. 21, 1942.

GLOSSITE

FOR GLOSSY COATING FOR PAPER PRODUCTS.
Claims use since Jan. 2, 1942.

Ser. No. 451,804. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed Mar. 21, 1942.

Kodak

FOR ORGANIC CHEMICALS—NAMELY, ACETALS, ACID ANHYDRIDES, ALCOHOLS EXCEPT POTABLE ETHYL ALCOHOL, ALDEHYDES, ALKALOIDS, AMIDES, AMINES OR NITROGEN BASES, AMINO ACIDS, AZO COMPOUNDS, CARBOHYDRATES, CARBOXYLIC ACIDS, CARBOXYLIC ACID HALIDES, DYES, ESTERS, ETHERS, HALOGENATED HYDROCARBONS, HALOHYDRINS, HETEROCYCLIC COMPOUNDS, HYDRAZINES, HYDROCARBONS, KETENES, KETONES, MERCAPTANS, METAL ALKYLS, NAPHTHOLS, NITRILES, NITRO AND NITROSO COMPOUNDS, ORTHO-ESTERS, OXIMES, PHENOLS, PROTEINS, PURINES, QUATERNARY AMMONIUM COMPOUNDS, QUINONES, SULFIDES, SULFONES, SULFONIC ACIDS, AND SULFONIC ACID HALIDES; FOR INORGANIC CHEMICALS—NAMELY, AMMONIA, AMMONIUM BROMIDE, AMMONIUM CHLORIDE, CHROMIC ACID, FERROUS SULFATE, IRON CHLORIDE, POTASSIUM CHLORIDE, SODIUM BICARBONATE, SODIUM BICHROMATE, SODIUM CHLORIDE, SODIUM HYDROSULFITE, SODIUM HYDROXIDE, SODIUM NITRATE, SODIUM SILICATE, SODIUM METAPHOSPHATE, VANADIUM CHLORIDE, BORIC ACID, HYDROCHLORIC ACID, NITRIC ACID, SULPHURIC ACID, AMMONIUM ALUM, POTASSIUM ALUM, POTASSIUM CHROME ALUM, ALUMINUM SULFATE, AMMONIUM BICHROMATE, AMMONIUM CARBONATE, AMMONIUM PERSULFATE, BORAX, COPPER SULFATE, GOLD CHLORIDE, IODINE, IRON AND AMMONIUM SULFATE, MAGNESIUM, POTASSIUM BICHROMATE, POTASSIUM BROMIDE, POTASSIUM CARBONATE, POTASSIUM FERRICYANIDE, POTASSIUM IODIDE, POTASSIUM METABISULFITE, POTASSIUM PERMANGANATE, SILVER NITRATE, SODIUM BISULFITE, SODIUM CARBONATE, SODIUM HYDROXIDE, SODIUM PHOSPHATE, SODIUM SULFATE, SODIUM SULFIDE, SODIUM SULFITE, SODIUM THIOSULFATE, TRISODIUM PHOSPHATE, URANIUM NITRATE; AND FOR PHOTOGRAPHIC CHEMICALS—NAMELY, LIQUID HARDENER, RUBBER SOLUTION, SEPIA TONER, ACID RINSE BATH WITH INDICATOR, FARMER'S REDUCER, WATER SPOT PREVENTATIVE, SELENIUM TONER, DESENSITIZER, AND BLUE TONER.
Claims use upon photographic chemicals since December, 1887; and has been continuously used by applicant upon organic chemicals since May 18, 1938; on inorganic chemicals for photographic and technical purposes since Aug. 10, 1939; and since Mar. 17, 1939, on liquid hardener; since Jan. 22, 1940, on rubber solution; since July 1, 1940, on sepia toner; since Nov. 7, 1940, on acid rinse bath with indicator; since Feb. 1, 1941, on farmer's reducer; since Apr. 1, 1941, on water spot preventative; since Aug. 28, 1941, on selenium toner; since Nov. 19, 1941, on desensitizer; and since Dec. 24, 1941, on blue toner.

Ser. No. 451,832. W. H. AND L. D. BETZ, Philadelphia, Pa. Filed Mar. 23, 1942.

SURF-AC

FOR PREPARATION USED TO INHIBIT DEPOSITS OF SCALE IN COOLING WATER AND BOILER WATER SYSTEMS.
Claims use since Mar. 1, 1941.

Ser. No. 451,861. U. S. PROCESS CORP., New York, N. Y. Filed Mar. 23, 1942.

Saniflamed

FOR CHEMICAL COMPOUND APPLIED TO TEXTILES, LEATHERS, FIBERS, AND FIBROUS ARTICLES AS A FIRE RESISTANT.
Claims use since September, 1941.

Ser. No. 451,869. HOFFMANN-LA ROCHE, INC., Nutley, N. J. Filed Mar. 24, 1942.

BENICOT

FOR MEDICINAL PREPARATIONS RECOMMENDED FOR USE IN THE TREATMENT OF VITAMIN DEFICIENCIES AND RELATED INDICATIONS.
Claims use since Jan. 12, 1942.

Ser. No. 451,890. COOPERATIVE G. L. F. SOIL BUILDING SERVICE, INC., Ithaca, N. Y. Filed Mar. 25, 1942.

Organocide

FOR INSECTICIDES.
Claims use since Jan. 2, 1942.

Ser. No. 451,898. HELEN LIEBERT, doing business as Liebert Distributors, New York, N. Y. Filed Mar. 25, 1942.

CROSS MY HEART

FOR PERFUMES, TOILET WATER, FACE AND BODY POWDER, LIPSTICK, ROUGE, LOTIONS FOR THE SKIN AND HAIR, FACE CREAMS, SKIN CREAMS, TALCUM POWDER, BATH SALTS.
Claims use since Mar. 18, 1942.

Ser. No. 451,944. E. R. SQUIBB & SONS, New York, N. Y. Filed Mar. 27, 1942.

CAJEDROL

FOR ANTISEPTIC AND ANALGESIC PREPARATIONS.
Claims use since Mar. 20, 1942.

Ser. No. 452,159. WILLIAM T. BRENNAN, doing business as Miner's Medicine Company, Beckley, W. Va. Filed Apr. 6, 1942.

MINER'S FRIEND

FOR LIQUID HERB LAXATIVE.
Claims use since Oct. 10, 1941.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 451,509. L. C. SMITH & CORONA TYPEWRITERS, INC., Syracuse, N. Y. Filed Mar. 9, 1942.

Durite

FOR CARBON PAPER.
Claims use since May 29, 1941.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 451,133. THE CELOTEX CORPORATION, Chicago, Ill. Filed Feb. 21, 1942.

CELO

FOR HEAT INSULATING BUILDING MATERIALS—NAMELY, INSULATING BLOCKS COMPOSED PRINCIPALLY OF CELLULOSE FIBER, INSULATING ROOFING UNITS, AND INSULATING SIDING UNITS.
Claims use on heat insulating building materials—namely, insulating blocks composed principally of cellulose fiber since May 31, 1941; and on insulating roofing units and insulating siding units since Jan. 20, 1942.

Ser. No. 451,188. CURTIS COMPANIES INCORPORATED, Clinton, Iowa. Filed Feb. 24, 1942.

OVERMATIC

FOR GARAGE DOOR AND PARTS THEREOF.
Claims use since Feb. 5, 1942.

Ser. No. 451,253. X-PANDO CORPORATION, Long Island City, N. Y. Filed Feb. 26, 1942.

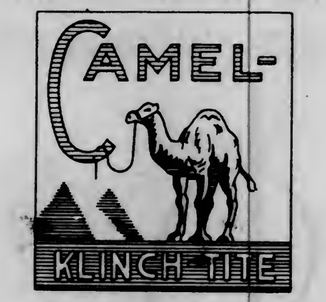
X-PANDOTITE

FOR CEMENT.
Claims use since April, 1933.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 441,694. D. R. CAMPBELL MACHINE CO., Boston, and Mattapan, Mass. Filed Mar. 19, 1941.

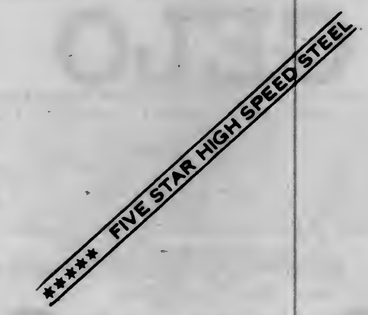


No claim is made to the notation "Klinch-Tite" apart from the mark.
FOR WIRE SHOE NAILS.
Claims use since Feb. 19, 1941.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 451,238. THE MIDVALE COMPANY, Nicetown, Philadelphia, Pa. Filed Feb. 26, 1942.



The words "High Speed Steel" are disclaimed apart from the mark.
FOR ALLOY STEEL.
Claims use since Oct. 31, 1935.

Ser. No. 451,240. THE MIDVALE COMPANY, Nicetown, Philadelphia, Pa. Filed Feb. 26, 1942.



The words "(Antifatigue) Steel" are disclaimed apart from the mark.
FOR ALLOY STEEL.
Claims use since Nov. 13, 1929.

Ser. No. 451,504. REYNOLDS METALS COMPANY, Richmond, Va. Filed Mar. 9, 1942.

PURECLAD

FOR SHEETS AND SHAPES OF ALUMINUM AND ALUMINUM ALLOYS.
Claims use since Feb. 12, 1942.

CLASS 15

OILS AND GREASES

Ser. No. 449,969. SKELLY OIL COMPANY, Tulsa, Okla. Filed Jan. 2, 1942.



Applicant disclaims the word "Fortified" apart from the mark. Applicant is owner of T. M. Reg. No. 203,329.
FOR GASOLINE.
Claims use since Sept. 16, 1941.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 448,618. MAX E. MILLER, doing business as L. E. Miller Company, New York, N. Y. Filed Nov. 13, 1941.



FOR PAINTS IN READY-MIXED FORM, PAINT ENAMELS AND VARNISHES.
Claims use since June 3, 1938.

Ser. No. 448,976. C. B. MASON, doing business as As-Bes-Tex, Chicago, Ill. Filed Nov. 27, 1941.

AS-BES-TEX

FOR PLASTIC PAINT COATING FOR INTERIOR AND EXTERIOR USE.
Claims use since Feb. 15, 1941.

Ser. No. 449,392. PEACOCK LABORATORIES, INC., Philadelphia, Pa. Filed Dec. 11, 1941.



FOR SILVER-COPPER ALLOY MIRRORING COATING; GALVANO-PLATING COATING FOR MIRRORS; REDUCING AGENT FOR USE IN THE SILVER SPRAYING OF MIRRORS; PAINTS, VARNISH AND PREPARED SHELLAC FOR COATING THE BACKS OF MIRRORS, AND THINNERS THEREFOR; PASTE TO BE APPLIED ON GLASS THROUGH STENCIL SCREENS FOR USE IN DECORATING MIRRORS; AND INGREDIENTS FOR USE IN THE PREPARATION OF A SUSPENSION TO BE APPLIED TO THE BACKS OF MIRRORS TO FORM A PROTECTIVE COATING THEREFOR COMPRISING FINELY DIVIDED COPPER POWDER AND A RESINOUS VEHICLE THEREFOR.
Claims use since Nov. 3, 1941.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 451,542. JOHN W. SURBRUG, INC., New York, N. Y. Filed Mar. 10, 1942.



The portrait is that of the poet Dante, deceased.
FOR SMOKING TOBACCO, CIGARS, AND CIGARETTES.
Claims use since 1882.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 448,238. BELL AIRCRAFT CORPORATION, Buffalo, N. Y. Filed Oct. 30, 1941.

AIRA-SQUID

FOR AIRPLANES AND STRUCTURAL PARTS THEREOF.
Claims use since Oct. 7, 1941.

Ser. No. 448,239. BELL AIRCRAFT CORPORATION, Buffalo, N. Y. Filed Oct. 30, 1941.

AIRASQUID

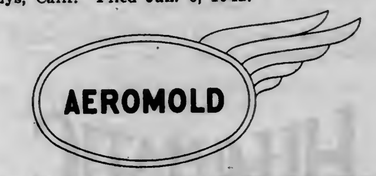
FOR AIRPLANES AND STRUCTURAL PARTS THEREOF.
Claims use since Oct. 7, 1941.

Ser. No. 448,240. BELL AIRCRAFT CORPORATION, Buffalo, N. Y. Filed Oct. 30, 1941.

SQUID

FOR AIRPLANES AND STRUCTURAL PARTS THEREOF.
Claims use since Oct. 7, 1941.

Ser. No. 450,035. TIMM AIRCRAFT CORPORATION, Van Nuys, Calif. Filed Jan. 6, 1942.



FOR AEROPLANES AND AEROPLANE STRUCTURAL PARTS.
Claims use since Oct. 29, 1941.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 451,274. SQUARE D COMPANY, Detroit, Mich. Filed Feb. 27, 1942.

Safront

FOR CONTROL PANELS FOR ELECTRIC WELDERS.
Claims use since Jan. 31, 1942.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 450,475. DES MOINES GLOVE & MFG. CO., INC., Des Moines, Iowa. Filed Jan. 26, 1942.

Tufhorse

Applicant is the owner of registration No. 162,060, (covering the representation of the rearing horse and the words "Tufhorse Gloves") registered December 5, 1922.
FOR GOLF BAGS MADE PARTLY OF LEATHER OR CANVAS, BASEBALL GLOVES MADE OF LEATHER, BAGS MADE WHOLLY OR PARTLY OF LEATHER

AND FABRIC AND USED PRINCIPALLY FOR FISHING TACKLE, BASEBALL BATS, FISHING LINES AND FOR GOLF CLUBS AND GOLF BALLS.
Claims use to baseball gloves since March, 1918; to carry-all bags since April, 1921, and to golf bags since April, 1921.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 427,246. KEM MANUFACTURING COMPANY, INC., New York, N. Y. Filed Jan. 8, 1940.

DUR-A-PHRAGM

FOR AUTOMOBILE FUEL PUMPS, AND PARTS THEREOF.
Claims use since Sept. 22, 1938.

Ser. No. 449,508. WILLIAMS OIL-O-MATIC HEATING CORPORATION, Bloomington, Ill. Filed Dec. 15, 1941.

HI-LO-MATIC

FOR AUTOMATIC PRESSURE OR TEMPERATURE RESPONSIVE SPEED CONTROL MECHANISMS FOR GAS ENGINES, AND THE LIKE.
Claims use since Nov. 26, 1941.

Ser. No. 452,021. MICROMATIC HONE CORPORATION, Detroit, Mich. Filed Mar. 30, 1942.

MICROPEEN

FOR TOOL FOR PRODUCING INDENTATIONS OR DEPRESSIONS OF PREDETERMINED SIZE AND CONFIGURATION IN METAL SURFACES.
Claims use since Feb. 23, 1942.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 442,769. AMERICAN SPECTACLE CO., INC., New York, N. Y. Filed Apr. 21, 1941.

SKEET-GOG

The word "Skeet" is disclaimed apart from the mark.
FOR SPECTACLES AND GOGGLES AND LENSES THEREFOR.
Claims use since Jan. 8, 1941.

Ser. No. 443,592. BARNETT AND RAMEL OPTICAL CO., Kansas City, Mo. Filed May 15, 1941.



The words "Setting Higher Standards Since 1920," "Prescription Service," "None Genuine Without This Signature," and "A Midwestern Institution" are disclaimed apart from the mark.
FOR OPHTHALMIC PRODUCTS—NAMELY, LENSES, FRAMES, AND RIMLESS MOUNTINGS.
Claims use since January, 1937.

Ser. No. 444,432. REDIFFUSION, LIMITED, London, England. Filed June 11, 1941.

REDIFON

FOR ELECTRICAL INSTRUMENTS, ELECTRICAL APPARATUS, AND PARTS THEREOF, FOR THE PRODUCTION, TRANSMISSION, RECEPTION, AMPLIFICATION, DETECTION, DISTRIBUTION, REPRODUCTION, CONTROL, MEASUREMENT, OR INDICATION OF CARRIER WAVE, TELEGRAPHIC, TELEPHONIC, TELEVISION, OR ACOUSTIC FREQUENCY SIGNALS OR FOR DIRECTION FINDING.
Claims use since Mar. 20, 1940.

Ser. No. 447,801. ECONOSCOPE CORPORATION, New York, N. Y. Filed Oct. 15, 1941.

ECON-O-SCOPE

FOR ELECTRICALLY OPERATED DEVICES ADAPTED TO INDICATE THE VERTICAL POSITIONS OF ELEVATORS IN THEIR SHAFTS.
Claims use since June 20, 1941.

Ser. No. 450,393. CHAFFIN OPTICAL COMPANY, INC., Boston, Mass. Filed Jan. 22, 1942.

VictoRay

The drawing is lined for green.
FOR OPTICAL FRAMES, MOUNTINGS, LENSES, AND PARTS THEREOF.
Claims use since Oct. 24, 1941.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 446,554. M. SELIG & SONS, New York, N. Y. Filed Aug. 26, 1941.



FOR FINGER RINGS.
Claims use since January, 1939.

Ser. No. 447,468. ALBERT S. SAMUELS CO., San Francisco, Calif. Filed Oct. 1, 1941.



FOR FINGER RINGS.
Claims use since Jan. 1, 1909.

Ser. No. 450,150. ALLIED STORES CORPORATION, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash., and as Day Brothers & Company, Syracuse, N. Y. Filed Jan. 12, 1942.

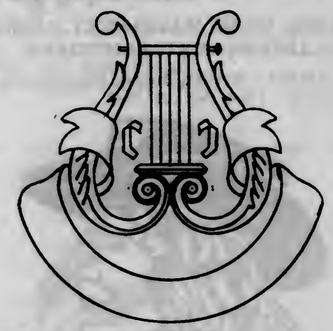
Citadel

FOR FLAT STERLING SILVERWARE IN THE NATURE OF KNIVES, FORKS, SPOONS, LADLES, PEPPER AND SALT SHAKERS, SERVING DISHES, AND PLATTERS.
Claims use since Dec. 24, 1941.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 448,669. CASTLETON CHINA INCORPORATED, New York, N. Y. Filed Nov. 15, 1941.



FOR CERAMIC TABLE-WARE.
Claims use since Sept. 6, 1940.

Ser. No. 450,738. KENTON HILLS PORCELAINS, INC., Erlanger, Ky. Filed Feb. 4, 1942.



FOR CHINA AND PORCELAIN PRODUCTS—NAMELY, VASES, BOWLS, CUPS, PLATES, AND PITCHERS.
Claims use since Oct. 1, 1940.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 450,421. MARJORIE B. LINDSAY, doing business as King-Kash Furniture Company, Texarkana, Ark. Filed Jan. 23, 1942.

KING-KASH

FOR LIVING ROOM FURNITURE—NAMELY, CHAIRS, SOFAS, DAVENPORTS, TABLES, SECRETARIES, DESKS, BOOKCASES, SETTEES, MIRRORS, HASSOCKS, WHAT-NOTS, SMOKERS' STANDS AND MAGAZINE RACKS; DINING ROOM FURNITURE—NAMELY, TABLES, CHAIRS, BUFFETS, SIDEBOARDS AND CABINETS; BED ROOM FURNITURE—NAMELY, BEDS, CHAIRS, TABLES, BUREAUS, CHIFFONIERS,

LOUNGES, VANITIES, CEDAR CHESTS, SPRINGS AND MATTRESSES; PORCH FURNITURE—NAMELY, CHAIRS, TABLES, SETTEES AND SWINGS.
Claims use since Oct. 10, 1941.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 449,586. QUAKER RUBBER CORPORATION, Philadelphia, Pa. Filed Dec. 18, 1941.



The representation of the Quaker is fanciful.
FOR BELTING FOR POWER TRANSMISSION, ELEVATING, AND CONVEYING PURPOSES, AIR BRAKE HOSE, AIR DRILL HOSE, AIR PUMP HOSE, CHEMICAL HOSE, FIRE HOSE, GARDEN HOSE, WATER HOSE, STEAM HOSE, SUCTION HOSE, AND HOSE FOR CONVEYING AIR, LIQUIDS, AND GASES, MACHINERY PACKING, BEER DISPENSING TUBING, FIRE EXTINGUISHER TUBING, GAS TUBING, PIANO PLAYER TUBING, WINDSHIELD WIPER TUBING, FLUORIC ACID TUBING, MILK MACHINE TUBING, SHEET AND ROD PACKING, SOLID TIRES, ALL OF WHICH CONTAIN RUBBER, OR SYNTHETIC RUBBER, OR BOTH.
Claims use since 1913.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 440,415. HOLYOKE PLASTICS INC., Holyoke, Mass. Filed Feb. 7, 1941.



The drawing is lined for green and brown. Applicant disclaims the word "Record" apart from the mark.
FOR PHONOGRAPHIC RECORDS AND RECORDING DISCS.
Claims use since Dec. 16, 1940.

Ser. No. 450,801. KEYSTONE BROADCASTING SYSTEM, INC., Chicago, Ill. Filed Feb. 6, 1942.

KBS

FOR ELECTRICAL TRANSCRIPTION AND PHONOGRAPH RECORDS.
Claims use since December, 1940.

Ser. No. 451,472. MICRO MUSICAL PRODUCTS CORP., New York, N. Y. Filed Mar. 7, 1942.

WHISPA-MUTE

The word "Mute" is disclaimed apart from the mark.
FOR MUTES FOR MUSICAL INSTRUMENTS.
Claims use since August, 1941.

Ser. No. 451,710. CHICAGO MUSICAL INSTRUMENT CO., Chicago, Ill. Filed Mar. 18, 1942.

BOY BUGLER

FOR TOY WIND INSTRUMENTS SIMILAR TO OCARINAS.
Claims use since Mar. 2, 1942.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 442,460. JOHN F. RIDER, New York, N. Y. Filed Apr. 10, 1941.

International
ELECTRONIC
DIGEST

Applicant disclaims the words "Electronic Digest" apart from the mark.
FOR PERIODICAL PUBLICATION.
Claims use since February, 1941.

Ser. No. 450,648. INDEPENDENT MUSIC PUBLISHERS, New York, N. Y. Filed Feb. 2, 1942.

AESTRO

FOR PHOTOSTATS, PHOTOPRINTS, AND SHEET MUSIC AND MUSIC PUBLICATIONS IN BOOK FORM.
Claims use since Nov. 29, 1939.

Ser. No. 451,725. NEW YORK ZOOLOGICAL SOCIETY, New York, N. Y. Filed Mar. 18, 1942.

ANIMAL KINGDOM

FOR PERIODICAL.
Claims use since Mar. 10, 1942.

CLASS 39

CLOTHING

Ser. No. 406,193. QUEEN MAID UNDERGARMENT CO., INC., Milltown, N. J. Filed May 10, 1938.

SPRING TITE

No claim is made to the word "Tite" apart from the mark.
FOR LADIES' UNDERGARMENTS — NAMELY, PETTICOATS, SLIPS, PAJAMAS, NIGHTGOWNS, AND STEP-INS.
Claims use since Jan. 5, 1938.

Ser. No. 441,941. BONWIT TELLER, INC., New York, N. Y. Filed Mar. 26, 1941.

"BONTWIN"

FOR WOMEN'S AND MISSES' BLOUSES, SWEATERS, DRESSES, COATS, SUITS, OUTER SKIRTS, HATS, SCARFS; BELTS FOR OUTER WEAR, HANDKERCHIEFS, SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS THEREOF, HOSIERY, GLOVES MADE OF LEATHER AND FABRIC; AND UNDERWEAR, I. E., SLIPS, PETTICOATS, BLOOMERS, AND PANTIES.
Claims use since February, 1941.

Ser. No. 449,682. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio. Filed Dec. 22, 1941.

Firestone

FOR CAPS, COVERALLS, RAINCOATS FOR SERVICE STATION ATTENDANTS, AND JACKETS FOR GENERAL USE.
Claims use since Nov. 15, 1932.

Ser. No. 449,827. JOHN CROWTHER & SONS (MILNSBRIDGE) LIMITED, Yorkshire, England. Filed Dec. 29, 1941.

CONVALE

FOR MEN'S AND BOYS' SUITS, JACKETS, VESTS, TROUSERS, BREECHES, COATS, HATS AND CAPS, AND WOMEN'S COATS, FROCKS, SKIRTS, SUITS, AND COSTUMES.
Claims use since June 5, 1941.

Ser. No. 451,566. HART, SCHAFFNER & MARX, Chicago, Ill. Filed Mar. 12, 1942.

WINWEAVE

FOR MEN'S AND BOYS' SUITS, COATS, OVERCOATS, TOPCOATS, VESTS, TROUSERS, KNICKERBOCKERS, AND BREECHES.
Claims use since Feb. 16, 1942.

Ser. No. 451,764. FISCHER & CO., INC., New York, N. Y. Filed Mar. 20, 1942.

Angélique

FOR LADIES' NIGHTGOWNS, SLIPS, AND PANTIES.
Claims use since July 14, 1941.

Ser. No. 451,859. JACOB SIEGEL COMPANY, Philadelphia, Pa. Filed Mar. 23, 1942.

Custom Inspired

Applicant disclaims the word "Custom" apart from the mark.
FOR MEN'S AND YOUNG MEN'S TOPCOATS AND OVERCOATS.
Claims use since Mar. 10, 1942.

Ser. No. 451,888. CISCO, INC., New York, N. Y. Filed Mar. 25, 1942.

ALL WOOL
"HEADLONG"
MUFFLER
MADE IN U. S. A.

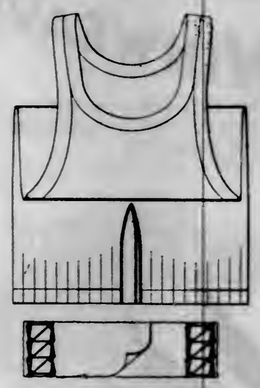
Applicant disclaims all wording except "Headlong."
FOR MEN'S MUFFLERS AND WOMEN'S SCARFS.
Claims use since Mar. 2, 1942.

Ser. No. 452,002. BLUE SWAN MILLS, INC., New York, N. Y. Filed Mar. 30, 1942.

Junikins

The mark consists of the word "Junikins."
FOR LADIES' AND CHILDREN'S UNDERWEAR.
Claims use since June 25, 1941.

Ser. No. 452,086. STANDARD KNITTING MILLS, INC., Knoxville, Tenn. Filed Apr. 1, 1942.



Trade-mark consists of a pair of closely spaced blue threads paralleling the edge of, and applied to, the binding of the upwardly extending slit in the front bottom edge of the garment. The representation of the garment itself is disclaimed.

FOR UNDERWEAR FOR MEN AND BOYS.
Claims use since Jan. 15, 1941.

Ser. No. 452,161. DAVID CRYSTAL INC., New York, N. Y. Filed Apr. 6, 1942.

CARUAR

FOR LADIES' AND MISSES' DRESSES, DRESS ENSEMBLES, CONSISTING OF DRESS AND COAT.
Claims use since January, 1942.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 449,980. MARROW MFG. CORP., New York, N. Y. Filed Jan. 3, 1942.



The word "Flower" is disclaimed apart from the mark.
FOR ARTIFICIAL FLOWERS FOR PERSONAL WEAR.
Claims use since Nov. 7, 1941.

Ser. No. 451,018. RAND RUBBER COMPANY, Brooklyn, N. Y. Filed Feb. 16, 1942. Under 10-year proviso.

REPELLENT RS SHIELDS

FOR DRESS SHIELDS.
Claims use since January, 1884.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 448,635. FOREMAN FABRICS CORP., New York, N. Y. Filed Nov. 14, 1941.



The drawing is lined for green. The words "The Feel and Seal of Quality" are disclaimed apart from the mark.
FOR COTTON, RAYON, ACETATE, AND/OR SILK PIECE GOODS.
Claims use since May 1, 1941.

Ser. No. 448,836. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed Nov. 22, 1941.

Fashion Manor

FOR COTTON AND/OR RAYON PIECE GOODS—NAMELY, CURTAIN, DRAPERY AND UPHOLSTERY FABRICS, MADE UP CURTAINS AND DRAPERIES.
Claims use since Sept. 29, 1941.

Ser. No. 449,918. REEVES BROTHERS, INC., New York, N. Y. Filed Dec. 31, 1941.

OSAGE by REEVES

Applicant disclaims the surname "Reeves" apart from the mark.
FOR SHIRTING OF TWILL CLOTH.
Claims use since June 15, 1920.

Ser. No. 449,929. TRENTON MILLS, INC., Trenton, Tenn. Filed Dec. 31, 1941.

REDRAH

FOR STOCKINETTES, POLISHING CLOTH, FLEECE CLOTH, AND FLEECE GLOVE CLOTH ALL IN THE PIECE.
Claims use since Jan. 1, 1930.

Ser. No. 450,929. TOBLER, ERNST & TRABER, INC., New York, N. Y. Filed Feb. 12, 1942.

VINTEX

FOR WOVEN FABRICS FOR INDUSTRIAL AND TECHNICAL USE—NAMELY, STENCIL CLOTH FOR SCREEN PRINTING, AND BOLTING CLOTH FOR SIFTING PURPOSES.
Claims use since Oct. 9, 1941.

Ser. No. 451,117. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va., and New York, N. Y. Filed Feb. 20, 1942.

CORDSPUN

FOR PIECE GOODS OF COTTON, RAYON, AND MIXTURES THEREOF.
Claims use since Aug. 1, 1941.

Ser. No. 451,118. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va., and New York, N. Y. Filed Feb. 20, 1942.

RIPPLESPUN

FOR PIECE GOODS OF COTTON, RAYON, AND MIXTURES THEREOF.
Claims use since Aug. 1, 1941.

Ser. No. 451,224. COLLINS & AIKMAN CORPORATION, Philadelphia, Pa., and New York, N. Y. Filed Feb. 26, 1942.

CAVEL—DUCK

The word "Duck" is disclaimed apart from the mark.
FOR COTTON DUCK FABRICS IN THE PIECE AND CUT LENGTHS.
Claims use since Feb. 3, 1942.

Ser. No. 451,242. PONEMAH MILLS, Taftville, Conn. Filed Feb. 26, 1942.

Fleetwing Flying

FOR COTTON AND RAYON PIECE GOODS AND BALLOON CLOTH.
Claims use since Mar. 15, 1917.

Ser. No. 451,251. WOOL-RAY PRODUCTS CORPORATION, New York, N. Y. Filed Feb. 26, 1942.

Charlestine

FOR PIECE GOODS MADE OF RAYON, COTTON, WOOL, ACETATE RAYONS, AND COMBINATIONS THEREOF.
Claims use since Sept. 25, 1940.

Ser. No. 451,284. BIANCHINI FERIER, INC., New York, N. Y. Filed Feb. 28, 1942.

FIORENZA

FOR PIECE GOODS COMPOSED WHOLLY OR IN PART OF SILK, WOOL, RAYON, COTTON, CHINA GRASS, HAIR, HEMP, FLAX, JUTE, ALPHA FIBRE, ALOE FIBRE, VEGETABLE FIBRE, OR MIXTURES THEREOF.
Claims use since May, 1914.

Ser. No. 451,285. BIANCHINI FERIER, INC., New York, N. Y. Filed Feb. 28, 1942.

Vesuvia

FOR PIECE GOODS COMPOSED WHOLLY OR IN PART OF SILK, WOOL, RAYON, COTTON, CHINA GRASS, HAIR, HEMP, FLAX, JUTE, ALPHA FIBRE, ALOE FIBRE, VEGETABLE FIBRE, OR MIXTURES THEREOF.
Claims use since 1937.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 450,102. HANS M. KRATZ, doing business as Simplex Electric Caponizer, Chicago, Ill. Filed Jan. 9, 1942.

SIMPLEX

FOR ELECTRIC CAPONIZING APPARATUS.
Claims use since Sept. 1, 1938.

Ser. No. 451,738. H. C. BLACKWOOD, doing business as Archer Dental Mfg. & Supply Co., Chicago, Ill. Filed Mar. 19, 1942.

Archer

FOR ACRYLIC DENTURE MATERIAL.
Claims use since December, 1939.

Ser. No. 452,092. ARALAC, INC., New York, N. Y. Filed Apr. 2, 1942.

ARALAC

Wavecrepe

FOR COMBED AND TOPPED CASEIN FIBRE PRETREATED WITH LANOLIN IN CONVENIENT FORM FOR USE IN WRAPPING AROUND HAIR ENDS FOR PROTECTION DURING PERMANENT WAVING.
Claims use since Jan. 23, 1942.

Ser. No. 452,093. ARALAC, INC., New York, N. Y. Filed Apr. 2, 1942.

Wavecrepe

FOR COMBED AND TOPPED CASEIN FIBRE PRETREATED WITH LANOLIN IN CONVENIENT FORM FOR USE IN WRAPPING AROUND HAIR ENDS FOR PROTECTION DURING PERMANENT WAVING.
Claims use since Jan. 23, 1942.

Ser. No. 452,098. DURALLIUM PRODUCTS CORP., Chicago, Ill. Filed Apr. 2, 1942.

DURALLIUM

FOR DENTAL ALLOYS, CASTING MATERIAL, DENTAL FITTINGS, ORTHODONTIC APPLIANCES, CAST DENTAL RESTORATIONS, WIRE AND CLASPS FOR DENTAL USE, AND DENTURES.
Claims use since July 9, 1936.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 451,303. HAMPDEN BOTTLING CO., Northampton, Mass. Filed Feb. 28, 1942.

Pioneer Valley

FOR NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES, SOLD AS SOFT DRINKS AND SIRUPS AND EXTRACTS FOR MAKING THE SAME.
Claims use since Feb. 19, 1942.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 400,541. UNION-FEED-CO., San Antonio, Tex. Filed Dec. 6, 1937.



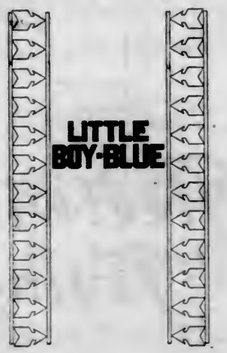
FOR FEEDS FOR POULTRY—NAMELY, BUTTERMILK STARTER, BROODER ALL-MASH, GROWING MASH, TURKEY STARTER, POULTRY MASH CONCENTRATE, HOG CONCENTRATE, CHICK STARTER, FATTENING MASH, BREEDERS LAYING MASH, BROILER MASH, AND LAYING MASH WITH VITAMIN CONTENT.
Claims use since December, 1933.

Ser. No. 424,488. NEW ENGLAND FISH COMPANY, Seattle, Wash. Filed Oct. 12, 1939.



The word "White" and the representation of the fish are disclaimed apart from the mark.
FOR CANNED TUNA FISH.
Claims use since June 26, 1939.

Ser. No. 430,635. UNION FEED CO., San Antonio, Tex. Filed Apr. 10, 1940.



FOR FEEDS FOR POULTRY AND LIVESTOCK IN-

CLUDING CHICK STARTER, STARTER, ALL MASH STARTER, ALL MASH BROODER MASH, FLUSHING MASH, BROILER STARTER, BROILER FINISHER, GROWING MASH, CONCENTRATE POULTRY MASH, LAYING BREEDER SPECIAL, BREEDER SPECIAL LAYING MASH, LAYING MASH, FATTENING MASH, TURKEY STARTER, TURKEY GROWING MASH, TURKEY LAYING MASH, TURKEY FATTENING MASH, CALF MEAL, MINERAL SUPPLEMENT, BABY CHICK SCRATCH, DEVELOPING GRAIN, BROILER GRAIN, HEN SCRATCH, HORSE AND MULE FEED, DAIRY FEED, DAIRY CONCENTRATE, RANGE MEAL, PROTEIN STOCK FEED CUBES, PIG FEED, HOG FEED, HOG FATTENER, CONCENTRATE FOR PIGS AND HOGS.
Claims use since December, 1933.

Ser. No. 441,177. EARL S. PRINCE, doing business as Prince Castles Company, Sterling, Ill. Filed Mar. 3, 1941.

prince castle

Canteen

FOR BOX LUNCHES COMPOSED OF SANDWICHES AND A MALTED MILK BEVERAGE.
Claims use since Dec. 1, 1940.

Ser. No. 442,306. WILLIAM O. COLE, JR., San Francisco, Calif. Filed Apr. 5, 1941.



All notations except "Li'l Folks" are disclaimed separately from the mark.
The pictures are fanciful.
FOR ORANGE JUICE FOR BABIES AND CHILDREN.
Claims use since Mar. 20, 1941.

Ser. No. 442,661. HENEL BROS. KENMORE DAIRY, INC., Kenmore, N. Y. Filed Apr. 17, 1941.



Applicant disclaims the words "Analyzed In Our Own Laboratories" apart from the mark. The portrait is fanciful.
FOR MILK AND CREAM.
Claims use since Sept. 1, 1940.

Ser. No. 448,542. ARKADELPHIA MILLING COMPANY, INCORPORATED, Arkadelphia, Ark. Filed Nov. 12, 1941.

Gander

FOR WHEAT FLOUR.
Claims use since Aug. 15, 1941.

Ser. No. 449,326. PRICE FLAVORING EXTRACT CO., Chicago, Ill. Filed Dec. 9, 1941. Under 10-year proviso as to "Dr. Price's."

DR PRICE'S



Applicant is owner of T. M. Reg. Nos. 77,567, 105,274, 198,923, 294,714, and 307,583. The representation of the boy is fanciful.
FOR FOOD FLAVORING EXTRACTS.
Claims use since Nov. 26, 1941, for composite mark; and since May, 1871, for the name "Dr. Price's."

Ser. No. 449,335. AMERICAN CHICLE CO., Long Island City, N. Y. Filed Dec. 10, 1941.

Tempters

FOR CHEWING GUM.
Claims use since May, 1918.

Ser. No. 449,481. FLOTILL PRODUCTS, INCORPORATED, Stockton, Calif. Filed Dec. 15, 1941.

RED QUEEN

FOR CANNED TOMATOES.
Claims use since Nov. 24, 1941.

Ser. No. 449,581. NATIONAL CREAMERY COMPANY, Somerville, Mass. Filed Dec. 18, 1941.



The representation of the fish and all wording except "Rite" and "National Creamery Co." are disclaimed.
FOR PICKLED HERRING, PICKLED HERRING WITH CREAM, AND PICKLED HERRING WITH WINE SAUCE.
Claims use since May 1, 1939.

Ser. No. 449,992. HUNT BROTHERS PACKING COMPANY, San Francisco, Calif. Filed Jan. 5, 1942.

Alliance

FOR CANNED FRUITS, CANNED VEGETABLES.
Claims use since Dec. 29, 1908.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 450,630. THE LARSEN COMPANY, Green Bay, Wis. Filed Jan. 21, 1942.

VEGETABLE MAN



The word "Vegetable" is disclaimed apart from the mark.
FOR CANNED MIXED VEGETABLES.
Claims use since Aug. 31, 1935.

Ser. No. 450,709. VAL VITA FOOD PRODUCTS, INC., Fullerton, Calif. Filed Feb. 3, 1942.



FOR CANNED FRUITS AND VEGETABLES, CANNED FRUIT JUICE FOR FOOD PURPOSES, CANNED VEGETABLE JUICE FOR FOOD PURPOSES, TOMATO PASTE, TOMATO SAUCE, CANNED TUNA, CANNED BONITA, CANNED HOMINY, CANNED PORK AND BEANS.
Claims use since July 15, 1932.

Ser. No. 451,709. GEO. P. BRAUN COMPANY, Chicago, Ill. Filed Mar. 18, 1942.

GOLDEN GLOW

FOR VEGETABLE SHORTENING.
Claims use since Sept. 26, 1940.

Ser. No. 451,937. MARK E. PALMER, doing business as Hot-Time Company, Potosi, Mo. Filed Mar. 27, 1942.

HOT-TIME

Applicant disclaims the word "Hot" apart from the mark.
FOR PEANUTS, SALTED POPCORN, POTATO CHIPS, AND SWEET BISCUITS.
Claims use since Mar. 5, 1942.

Ser. No. 452,088. BORDEN'S DAIRY & ICE CREAM COMPANY, Columbus, Ohio. Filed Apr. 1, 1942.

BIG BOMBER

FOR ICE CREAM.
Claims use since Jan. 27, 1942.

Ser. No. 452,096. CHICAGO DIETETIC SUPPLY HOUSE, INC., Chicago, Ill. Filed Apr. 2, 1942.

SOYAMAISE

FOR SALAD DRESSING.
Claims use since July 1, 1941.

CLASS 47

WINES

Ser. No. 442,462. SANCHEZ ROMATE HERMANOS, S. A. Jerez de la Frontera, Spain. Filed Apr. 10, 1941.

El César

FOR SHERRY WINES.
Claims use since Mar. 17, 1934.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 451,876. PILSEN BREWING COMPANY, Chicago, Ill. Filed Mar. 24, 1942.



No claim is made to the word "Pilsen" apart from the mark. The drawing is lined for blue and gold.
FOR BEER.
Claims use since Jan. 30, 1942.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 450,512. NAPA & SONOMA WINE CO., San Francisco, Calif. Filed Jan. 27, 1942.



No claim is made to the letters V. S. P. or to the name "Sonoma" or to the representations of the labels apart from the mark.
FOR BRANDY.
Claims use since Jan. 2, 1942.

Ser. No. 451,392. JOSEPH E. SEAGRAM & SONS, INC., Lawrenceburg, Ind. Filed Mar. 4, 1942.

Velvedor

FOR GIN AND BEVERAGES CONTAINING GIN.
Claims use since Feb. 26, 1942.

Ser. No. 451,759. SCHENLEY DISTILLERIES, INC., New York, N. Y. Filed Mar. 18, 1942.

KENTUCKY OWL

No claim is made to the word "Kentucky" apart from the mark.
FOR WHISKEY, RUM, GIN, BRANDY, AND ALCOHOLIC CORDIALS.
Claims use since July 21, 1941.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 438,011. W. D. KNOX, doing business as Printing Art Services Co., Atchison, Kans. Filed Nov. 18, 1940.

PASCO

FOR PRINTING PLATES AND PARTS THEREOF.
Claims use since Sept. 12, 1940.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MAY 26, 1942

395,388. UNCOOKED POPCORN. THE J. CHAS. MCCULLOUGH SEED COMPANY, Cincinnati, Ohio.
Filed November 20, 1940. Serial No. 438,078. PUBLISHED APRIL 15, 1941. Class 46.

395,389. RUBBER FORMS, SIMULATING PARTS OF THE HUMAN ANATOMY, USED IN THE DISPLAY OF WEARING APPAREL. RUBBER PRODUCTS, INC., Chicago, Ill.
Filed December 7, 1940. Serial No. 438,630. PUBLISHED MARCH 17, 1942. Class 50.

395,390. HORSEHIDE JACKETS, GOATSKIN JACKETS, CALFSKIN JACKETS, COWHIDE JACKETS, SHEEP-LINED COATS, SWEDE-JACKETS. ATKINS MANUFACTURING COMPANY, Chicago, Ill.
Filed December 21, 1940. Serial No. 439,034. PUBLISHED MARCH 10, 1942. Class 39.

395,391. PAPRIKA IN ITS NATURAL STATE, IMPORTED IN LARGE SACKS HOLDING ONE HUNDRED AND TEN POUNDS NET, WHICH IS RESOLD IN BULK IN THE SAME CONTAINERS FOR MANUFACTURING PURPOSES AND TO BE SOLD UNDER PRIVATE BRANDS. VICTOR M. CALDERON CO. INC., New York, N. Y.
Filed January 15, 1941. Serial No. 439,687. PUBLISHED AUGUST 12, 1941. Class 46.

395,392. RECORD DISCS AND PLAY BACK AND CUTTING NEEDLES. CENTURY RADIO CO. INC., Philadelphia, Pa.
Filed January 25, 1941. Serial No. 439,961. PUBLISHED APRIL 29, 1941. Class 36.

395,393. COTTON, RAYON, ACETATE AND/OR SILK PIECE GOODS NOT INCLUDING FABRICS HAVING FLOCK OR ANY OTHER FINELY DIVIDED MATERIAL DEPOSITED ON THE WHOLE OR PART OF THE SURFACE THEREOF. COHN-HALL-MARX CO., New York, N. Y.
Filed January 31, 1941. Serial No. 440,155. PUBLISHED APRIL 1, 1941. Class 42.

395,394. CANNED GOODS OR CANNED FOODS—NAMELY, SOUPS, CHICKEN LIVERS; BREAKFAST FOODS—NAMELY, OATMEAL AND CRACKED WHEAT, SHRIMP CREOLE, CORN MEAL, RICE PUDDING, AND CELERY HEARTS. RALPH BIXBY, St. Louis, Mo.
Filed February 13, 1941. Serial No. 440,616. PUBLISHED MARCH 17, 1942. Class 46.

395,395. CANNED FRUITS, CANNED VEGETABLES, CANNED TOMATO CATSUP, CANNED SAUERKRAUT, AND COFFEE. OLMITO PACKING COMPANY, Brownsville, Tex.
Filed March 18, 1941. Serial No. 441,684. PUBLISHED JUNE 10, 1941. Class 46.

395,396. TOY DOLL BATHS. S. B. NOVELTY CO., INC., New York, N. Y.
Filed April 14, 1941. Serial No. 442,567. PUBLISHED MARCH 17, 1942. Class 22.

395,397. SEED GERMINATING BOX OR CONTAINER PROVIDED WITH SMALL CELLS FILLED WITH PLANT PROPAGATING MATERIAL. SCARBOROUGH TESTING GARDENS, INC., Scarborough, N. Y.
Filed April 14, 1941. Serial No. 442,568. PUBLISHED MARCH 17, 1942. Class 50.

395,398. DAIRY PRODUCTS—NAMELY, ICE CREAM. ARDEN FARMS CO., Los Angeles, Calif.
Filed May 19, 1941. Serial No. 443,679. PUBLISHED MARCH 17, 1942. Class 46.

395,399. MICA PRODUCT COMPRISING MICA IN COMMINUTED FORM FOR USE IN THE PREPARATION AND TREATMENT OF WELL DRILLING FLUIDS. NATIONAL LEAD COMPANY, New York, N. Y.
Filed June 30, 1941. Serial No. 444,974. PUBLISHED MARCH 17, 1942. Class 12.

395,400. AIRCRAFT LANDING GEAR, WHEELS AND SHOCK ABSORBERS. DOWTY EQUIPMENT CORPORATION, New York, N. Y.
Filed July 17, 1941. Serial No. 445,409. PUBLISHED MARCH 17, 1942. Class 19.

395,401. LADIES', MISSES', AND CHILDREN'S DRESSES, SKIRTS, JACKETS, SHIRTS, BLOUSES, AND SLACKS. KERRY CRICKET INC., St. Louis, Mo.
Filed July 19, 1941. Serial No. 445,498. PUBLISHED MARCH 17, 1942. Class 39.

395,402. GARMENTS AND ARTICLES OF DRESS—NAMELY, WOMEN'S (WATERPROOF) COATS, CAPES, AND (SHOWERPROOF) RAINCOATS AND GOLF JACKETS, ETC. CHAS. MACINTOSH & COMPANY, LIMITED, Manchester, England.
Filed July 22, 1941. Serial No. 445,552. PUBLISHED MARCH 10, 1942. Class 39.

395,403. BADMINTON SETS. FRED BENTLEY, Lansing, Mich.
Filed July 23, 1941. Serial No. 445,570. PUBLISHED MARCH 17, 1942. Class 22.

395,404. MEN'S AND CHILDREN'S SWEAT SHIRTS AND POLO SHIRTS. NORWICH KNITTING COMPANY, Norwich, N. Y.
Filed July 26, 1941. Serial No. 445,666. PUBLISHED MARCH 10, 1942. Class 39.

395,405. LACE CURTAINS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed August 4, 1941. Serial No. 445,924. PUBLISHED FEBRUARY 24, 1942. Class 42.

395,406. MEN'S DRESS SHIRTS, SPORT SHIRTS, NEGLIGEE SHIRTS, AND WORK SHIRTS. F. JACOBSON & SONS, INC., New York, N. Y.
Filed August 4, 1941. Serial No. 445,945. PUBLISHED MARCH 10, 1942. Class 39.

395,407. PISTON RINGS. THE PERFECT CIRCLE COMPANY, Hagerstown, Ind.
Filed August 13, 1941. Serial No. 446,215. PUBLISHED MARCH 17, 1942. Class 35.

395,408. LADIES' HATS. LOLA HAT, INC., New York, N. Y.
Filed August 30, 1941. Serial No. 446,699. PUBLISHED MARCH 17, 1942. Class 39.

395,409. POULTRY, CATTLE, AND STOCK FEEDS. FARM FEED MANUFACTURING COMPANY, Litchfield, Minn.
Filed September 5, 1941. Serial No. 446,795. PUBLISHED MARCH 17, 1942. Class 46.

395,410. INFANTS' OVERALL SACKS. ABBY BEVERIDGE BAUM, Seattle, Wash.
Filed September 17, 1941. Serial No. 447,088. PUBLISHED MARCH 17, 1942. Class 39.

395,411. MEN'S HALF HOSE, ANKLET AND SLACK SOCKS; WOMEN'S UNDER-HOSE, ANKLET AND SPORTS HOSE; AND CHILDREN'S SOCKS, ANKLET SOCKS AND THREE-QUARTER HOSE. W. RAVEN & CO. LIMITED, Leicester, England.
Filed October 1, 1941. Serial No. 447,467. PUBLISHED MARCH 10, 1942. Class 39.

395,412. CORSETS AND BRASSIÈRES. ALLIED STORES CORPORATION, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash.
Filed October 6, 1941. Serial No. 447,553. PUBLISHED MARCH 3, 1942. Class 39.

395,413. HIGH-TEMPERATURE INSULATING BLOCK. THE M. W. KELLOGG COMPANY, Jersey City, N. J., and New York, N. Y.
Filed October 14, 1941. Serial No. 447,782. PUBLISHED MARCH 17, 1942. Class 12.

395,414. PIECE GOODS OF COTTON, RAYON, AND SO ON, PROCESSED OR FINISHED TO MAKE THE GOODS CREASE PROOF AND WATER REPELLENT, AND TO GIVE THE SAME A FINISH SO AS TO RESEMBLE FUR. PALATINE DYEING COMPANY, INC., St. Johnsville, N. Y.
Filed October 24, 1941. Serial No. 448,086. PUBLISHED FEBRUARY 24, 1942. Class 42.

395,415. WOOL BATTING OR WOOL BATTS. LOCKPORT COTTON BATTING CO., Lockport, N. Y.
Filed October 27, 1941. Serial No. 448,154. PUBLISHED MARCH 17, 1942. Class 1.

395,416. CHEESE CLOTH AND UTILITY CLOTHS, NAPKINS, TOWELS, DUSTING CLOTHS, POLISHING CLOTHS, STRAINING CLOTHS, MADE PRINCIPALLY OF UNTREATED CHEESE CLOTH. CHICOPEE SALES CORPORATION, New York, N. Y.
Filed October 28, 1941. Serial No. 448,185. PUBLISHED MARCH 10, 1942. Class 42.

395,417. COAL. BLOCK COAL AND COKE COMPANY, INC., Knoxville, Tenn.
Filed October 31, 1941. Serial No. 448,277. PUBLISHED MARCH 17, 1942. Class 1.

395,418. MEN'S AND YOUNG MEN'S TOPCOATS, OVERCOATS, VESTS, TROUSERS, PANTS, SPUN RAYON SUMMER SUITS AND OUTER SHIRTS, AND SLACKS. ROSE BROTHERS, New York, N. Y.
Filed November 7, 1941. Serial No. 448,459. PUBLISHED MARCH 10, 1942. Class 39.

395,419. MEN'S AND BOYS' WORK AND DRESS TROUSERS. SEMINOLE MANUFACTURING COMPANY, Columbus, Miss.
Filed November 10, 1941. Serial No. 448,530. PUBLISHED MARCH 10, 1942. Class 39.

395,420. DISH TOWELS AND TOWELING IN THE PIECE. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 13, 1941. Serial No. 448,607. PUBLISHED FEBRUARY 24, 1942. Class 42.

395,421. SHEETS AND SHEETING IN THE PIECE, PILLOW CASES AND TUBING, BLANKETS OF COTTON, WOOL, RAYON, ETC. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 13, 1941. Serial No. 448,608. PUBLISHED FEBRUARY 24, 1942. Class 42.

395,422. DISH TOWELS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 13, 1941. Serial No. 448,610. PUBLISHED FEBRUARY 24, 1942. Class 42.

395,423. UPHOLSTERY, DRAPERY, AND CURTAIN FABRICS OF SILK, SILK AND WOOL, ETC. ROBERT W. IRWIN COMPANY, Grand Rapids, Mich.
Filed October 3, 1941. Serial No. 447,520. PUBLISHED FEBRUARY 24, 1942. Class 42.

395,424. COTTON, RAYON, ACETATE AND/OR SILK PIECE GOODS. FOREMAN FABRICS CORP., New York, N. Y.
Filed November 14, 1941. Serial No. 448,637. PUBLISHED FEBRUARY 24, 1942. Class 42.

395,425. COTTON, RAYON, AND/OR WOOLEN PIECE GOODS, MATTRESS PROTECTORS AND COVERS, BEDSPREADS, BLANKETS, COMFORTS, SHEETS, SHEETING, AND PILLOW CASES. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed November 22, 1941. Serial No. 448,838. PUBLISHED FEBRUARY 24, 1942. Class 42.

395,426. PIECE GOODS MADE OF COTTON, WOOL, SILK, RAYON, AND/OR ANY COMBINATIONS THEREOF. BROOKHAVEN TEXTILES, INC., New York, N. Y.
Filed November 24, 1941. Serial No. 448,849. PUBLISHED FEBRUARY 24, 1942. Class 42.

395,427. PIECE GOODS MADE OF COTTON, WOOL, SILK, RAYON, AND/OR ANY COMBINATIONS THEREOF. BROOKHAVEN TEXTILES, INC., New York, N. Y.
Filed November 24, 1941. Serial No. 448,850. PUBLISHED FEBRUARY 24, 1942. Class 42.

395,428. PIECE GOODS IN THE NATURE OF A CORDUROY FABRIC. BROOKHAVEN TEXTILES, INC., New York, N. Y.
Filed November 24, 1941. Serial No. 448,851. PUBLISHED FEBRUARY 24, 1942. Class 42.

395,429. YARN. AYR SCOTCH WOOLS, INCORPORATED, Green's Farms, Conn.
Filed November 26, 1941. Serial No. 448,931. PUBLISHED March 10, 1942. Class 43.

395,430. WINDOW CURTAINS. BARTMANN & BIXES, INC., New York, N. Y.
Filed November 28, 1941. Serial No. 448,996. PUBLISHED FEBRUARY 24, 1942. Class 42.

395,431. PIECE GOODS MADE OF COTTON, WOOL, SILK, RAYON, AND/OR ANY COMBINATIONS THEREOF. BROOKHAVEN TEXTILES, INC., New York, N. Y.
Filed November 28, 1941. Serial No. 449,000. PUBLISHED FEBRUARY 24, 1942. Class 42.

395,432. LADIES' AND MISSES' COATS, LADIES' AND MISSES' SUITS. FRED B. SALOMON, doing business as Stein & Salomon, Chicago, Ill.
Filed November 28, 1941. Serial No. 449,022. PUBLISHED MARCH 17, 1942. Class 39.

395,433. FURNITURE CASTER WHEELS. THE BASSICK COMPANY, Bridgeport, Conn.
Filed December 3, 1941. Serial No. 449,115. PUBLISHED MARCH 17, 1942. Class 13.

395,434. SPUN RAYON PIECE GOODS. CANTOR-GREENSPAN CO., INC., also doing business as Labtex Fabrics, New York, N. Y.
Filed December 3, 1941. Serial No. 449,121. PUBLISHED MARCH 17, 1942. Class 42.

395,435. PIECE GOODS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed December 3, 1941. Serial No. 449,122. PUBLISHED MARCH 3, 1942. Class 42.

395,436. FLOWING BRUSHES AND PENCIL BRUSHES. PHILCO CORPORATION, Philadelphia, Pa.
Filed December 3, 1941. Serial No. 449,154. PUBLISHED MARCH 3, 1942. Class 29.

395,437. LAMINATED CONSTRUCTIONS AND PLYWOOD PANELS AND SHEETS. UNITED STATES PLYWOOD CORPORATION, New York, N. Y.
Filed December 4, 1941. Serial No. 449,195. PUBLISHED MARCH 3, 1942. Class 12.

395,438. LADIES', MISSES', AND JUNIOR DRESSES AND SUITS. APEX DRESS CO., INC., New York, N. Y.
Filed Decembere 5, 1941. Serial No. 449,198. PUBLISHED MARCH 10, 1942. Class 39.

395,439. CERAMIC, CLAY WALL TILE, GLAZED AND UNGLAZED. THE CAMBRIDGE TILE MANUFACTURING CO., Cincinnati, Ohio.
Filed December 8, 1941. Serial No. 449,252. PUBLISHED MARCH 17, 1942. Class 12.

395,440. LACE CURTAINS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed December 8, 1941. Serial No. 449,255. PUBLISHED MARCH 3, 1942. Class 42.

395,441. LINING FABRICS IN THE PIECE OF COTTON, RAYON, AND COMBINATIONS THEREOF, SOLD BY THE YARD. H. A. GITLIN & CO., New York, N. Y.
Filed December 9, 1941. Serial No. 449,320. PUBLISHED MARCH 17, 1942. Class 42.

395,442. PETROLEUM PRODUCTS—NAMELY, LUBRICATING OIL. THE PETROL CORPORATION, Los Angeles, Calif.
Filed December 10, 1941. Serial No. 449,354. PUBLISHED MARCH 3, 1942. Class 15.

395,443. PETROLEUM PRODUCTS — NAMELY, GREASE. THE PETROL CORPORATION, Los Angeles, Calif.
Filed December 10, 1941. Serial No. 449,355. PUBLISHED MARCH 3, 1942. Class 15.

395,444. SELF-RISING BUCKWHEAT FLOUR, SELF-RISING WHOLE WHEAT PANCAKE FLOUR, AND SELF-RISING PANCAKE FLOUR. GOOCH FOOD PRODUCTS COMPANY, Lincoln, Nebr.
Filed December 11, 1941. Serial No. 449,371. PUBLISHED MARCH 17, 1942. Class 46.

395,445. LIQUID ADHESIVE HAVING A SHELLAC BASE PREPARED ESPECIALLY FOR ATTACHING CORK, FELT, CARDBOARD OR SIMILAR MATERIALS TO THE BACKS OF MIRRORS, ETC. PEACOCK LABORATORIES, INC., Philadelphia, Pa.
Filed December 11, 1941. Serial No. 449,389. PUBLISHED MARCH 17, 1942. Class 5.

395,446. TOOTHBRUSHES AND TOOTHBRUSH BRISTLES. THE PEPSODENT CO., Chicago, Ill.
Filed December 11, 1941. Serial No. 449,395. PUBLISHED MARCH 3, 1942. Class 29.

395,447. MOTOR OILS. WESTERN AUTO SUPPLY COMPANY, Kansas City, Mo.
Filed December 11, 1941. Serial No. 449,400. PUBLISHED MARCH 17, 1942. Class 15.

395,448. PHONOGRAPH NEEDLES. DUOTONE COMPANY, INC., New York, N. Y.
Filed December 13, 1941. Serial No. 449,448. PUBLISHED MARCH 17, 1942. Class 36.

395,449. PHONOGRAPH NEEDLES. DUOTONE COMPANY, INC., New York, N. Y.
Filed December 13, 1941. Serial No. 449,450. PUBLISHED MARCH 17, 1942. Class 36.

395,450. PACKAGED MEALS INCLUDING CHICKEN AND POTATOES. KING'S TAVERN, Reading, Ohio.
Filed December 15, 1941. Serial No. 449,489. PUBLISHED MARCH 17, 1942. Class 46.

395,451. DOLLS AND DOLLS' CLOTHES. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif.
Filed December 15, 1941. Serial No. 449,492. PUBLISHED MARCH 17, 1942. Class 22.

395,452. DOLLS AND DOLLS' CLOTHES. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif.
Filed December 15, 1941. Serial No. 449,493. PUBLISHED MARCH 17, 1942. Class 22.

395,453. DOLLS AND DOLLS' CLOTHES. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif.
Filed December 15, 1941. Serial No. 449,495. PUBLISHED MARCH 17, 1942. Class 22.

395,454. DOLLS AND DOLLS' CLOTHES. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif.
Filed December 15, 1941. Serial No. 449,496. PUBLISHED MARCH 17, 1942. Class 22.

395,455. DOLLS AND DOLLS' CLOTHES. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif.
Filed December 15, 1941. Serial No. 449,497. PUBLISHED MARCH 17, 1942. Class 22.

395,456. MEN'S HATS. BYER-ROLNICK COMPANY, Garland, Tex.
Filed December 16, 1941. Serial No. 449,515. PUBLISHED MARCH 17, 1942. Class 39.

395,457. COTTON, RAYON, ACETATE, AND/OR SILK PIECE GOODS. HOLMES & ZUCKER INC., New York, N. Y.
Filed December 17, 1941. Serial No. 449,550. PUBLISHED MARCH 3, 1942. Class 42.

395,458. CANDLES, VOTIVE, SANCTUARY, AND TABERNACLE LIGHTS MADE OF OILS, GREASES, FATS, AND/OR WAXES SIMILAR TO CANDLES. A. GROSS CANDLE COMPANY, INC., Baltimore, Md.
Filed December 18, 1941. Serial No. 449,576. PUBLISHED MARCH 17, 1942. Class 15.

395,459. PAJAMAS. WILLIAM S. SCHRAM, Chicago, Ill.
Filed December 18, 1941. Serial No. 449,589. PUBLISHED MARCH 10, 1942. Class 39.

395,460. MEDALS AND BADGES, RINGS; SERVICE, CLUB, SCHOOL, AND FRATERNITY PINS; FRATERNITY KEYS; CHARMS AND JEWELRY, AND PRIZE AND LOVING CUPS, ALL MADE OF OR PLATED WITH PRECIOUS METAL. DIEGES & CLUST, New York, N. Y.
Filed December 19, 1941. Serial No. 449,602. PUBLISHED MARCH 17, 1942. Class 28.

395,461. TEXTILE FABRICS IN THE PIECE OF COTTON, RAYON, ACETATE, SILK, AND COMBINATIONS THEREOF. HESS GOLDSMITH & CO. INC., New York, N. Y.
Filed December 19, 1941. Serial No. 449,608. PUBLISHED MARCH 10, 1942. Class 42.

395,462. WHEAT FLOUR. CALIFORNIA MILLING CORPORATION, Los Angeles, Calif.
Filed December 20, 1941. Serial No. 449,637. PUBLISHED MARCH 17, 1942. Class 46.

395,463. SIMULATED BOWLING GAMES PLAYED WITH DARTS. ROBERT W. MUNRO, Cynwyd, Pa.
Filed December 20, 1941. Serial No. 449,651. PUBLISHED MARCH 17, 1942. Class 22.

395,464. LADIES' SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS OF THESE MATERIALS. PINCUS & TOBIAS, INC., New York, N. Y.
Filed December 20, 1941. Serial No. 449,652. PUBLISHED MARCH 17, 1942. Class 39.

395,465. SHOES MADE OF LEATHER, RUBBER, FABRIC, AND/OR COMBINATIONS OF THESE MATERIALS. EDISON BROTHERS STORES, INC., St. Louis, Mo.
Filed December 22, 1941. Serial No. 449,672. PUBLISHED MARCH 17, 1942. Class 39.

395,466. PIECE GOODS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed December 26, 1941. Serial No. 449,761. PUBLISHED MARCH 10, 1942. Class 42.

395,467. WOOLEN PIECE GOODS. SCHNEIDER & ARMITAGE, New York, N. Y.
Filed December 26, 1941. Serial No. 449,782. PUBLISHED MARCH 10, 1942. Class 42.

395,468. FABRICS IN THE PIECE OF COTTON, RAYON, ACETATE, AND COMBINATIONS THEREOF. FABRICS BY JOYCE, INC., New York, N. Y.
Filed December 27, 1941. Serial No. 449,795. PUBLISHED MARCH 10, 1942. Class 42.

395,469. COTTON AND RAYON FABRICS IN THE PIECE. JOHN MATOUK, INC., New York, N. Y.
Filed December 27, 1941. Serial No. 449,801. PUBLISHED MARCH 10, 1942. Class 42.

395,470. COMBINATION SCREEN AND STORM WINDOWS. THE F. C. RUSSELL COMPANY, Cleveland, Ohio.
Filed December 27, 1941. Serial No. 449,809. PUBLISHED MARCH 17, 1942. Class 12.

395,471. TEXTILE FABRICS IN THE PIECE, OF SILK, COTTON, RAYON, AND COMBINATIONS THEREOF. SHIRLEY SILK CO., INC., New York, N. Y.
Filed December 27, 1941. Serial No. 449,810. PUBLISHED MARCH 17, 1942. Class 42.

395,472. LUMBER, PLY WOOD, AND SPECIAL MILLWORK. CROSS, AUSTIN & IRELAND LUMBER COMPANY, Brooklyn, N. Y.
Filed December 30, 1941. Serial No. 449,852. PUBLISHED MARCH 17, 1942. Class 12.

395,473. FIBROUS ACOUSTICAL INSULATING MATERIAL. ARMSTRONG CORK COMPANY, Lancaster, Pa.
Filed December 31, 1941. Serial No. 449,880. PUBLISHED MARCH 17, 1942. Class 12.

395,474. MEN'S AND YOUNG MEN'S SUITS, TOPCOATS, AND OVERCOATS. H. DAROFF & SONS, INC., Philadelphia, Pa.
Filed December 31, 1941. Serial No. 449,897. PUBLISHED MARCH 10, 1942. Class 39.

395,475. FLOOR MOPS, DUSTERS, AND DUSTCLOTHS. RUBON WOODFINISHING AND PRODUCTS COMPANY, Kansas City, Mo.
Filed December 31, 1941. Serial No. 449,922. PUBLISHED MARCH 17, 1942. Class 29.

395,476. WOOD VENEERS OF THE NATURE OF LAMINATED WOOD BONDED BY THERMO PLASTICS. GOSHEN VENEER CO., Goshen, Ind.
Filed January 5, 1942. Serial No. 449,991. PUBLISHED MARCH 17, 1942. Class 12.

395,477. YEAST. NORTHWESTERN YEAST COMPANY, Chicago, Ill.
Filed January 5, 1942. Serial No. 449,998. PUBLISHED MARCH 17, 1942. Class 46.

395,478. MOPS. STANLEY HOME PRODUCTS, INC., Westfield, Mass.
Filed January 6, 1942. Serial No. 450,033. PUBLISHED MARCH 17, 1942. Class 29.

395,479. PACKINGS FOR PISTONS — NAMELY, BRAKE CYLINDER PISTON PACKINGS COMPOSED OF A COMPOSITION RUBBER BASE AND FABRIC, ETC. THE WESTINGHOUSE AIR BRAKE COMPANY, Wilmerding, Pa.
Filed January 8, 1942. Serial No. 450,084. PUBLISHED MARCH 17, 1942. Class 35.

395,480. LADIES' AND MISSES' SHOES OF LEATHER, FABRIC, AND COMBINATIONS THEREOF. STIX, BAER AND FULLER COMPANY, St. Louis, Mo.
Filed January 10, 1942. Serial No. 450,147. PUBLISHED MARCH 17, 1942. Class 39.

395,481. SPUN RAYON PIECE GOODS. CANTOR GREENSPAN CO., INC., New York, N. Y.
Filed January 12, 1942. Serial No. 450,156. PUBLISHED MARCH 17, 1942. Class 42.

395,482. LABEL GLUE. THE BORDEN COMPANY, New York, N. Y.
Filed January 13, 1942. Serial No. 450,174. PUBLISHED MARCH 17, 1942. Class 5.

395,483. LADIES' SHOES MADE OF LEATHER, FABRIC AND COMBINATION OF THESE MATERIALS. LIEBERMAN SHOE CORPORATION, Brooklyn, N. Y.
Filed January 14, 1942. Serial No. 450,208. PUBLISHED MARCH 17, 1942. Class 39.

395,484. MISSES', JUNIORS', AND CHILDREN'S COATS. SMART MAID COAT CO., INC., New York, N. Y.
Filed January 14, 1942. Serial No. 450,214. PUBLISHED MARCH 10, 1942. Class 39.

395,485. MOP YARN. PURITAN CORDAGE MILLS, Louisville, Ky.
Filed January 15, 1942. Serial No. 450,245. PUBLISHED MARCH 17, 1942. Class 43.

395,486. MOP YARN. PURITAN CORDAGE MILLS, Louisville, Ky.
Filed January 15, 1942. Serial No. 450,246. PUBLISHED MARCH 17, 1942. Class 43.

395,487. SOUP MIXTURE. THE QUAKER OATS COMPANY, Chicago, Ill.
Filed January 15, 1942. Serial No. 450,248. PUBLISHED MARCH 17, 1942. Class 46.

395,488. LADIES' HOSIERY. HUFFMAN FULL FASHIONED MILLS, INC., Morganton, N. C.
Filed January 17, 1942. Serial No. 450,279. PUBLISHED MARCH 17, 1942. Class 39.

395,489. LADIES' UNDERWEAR—NAMELY, SLIPS. DORIS MILLER, INC., New York, N. Y.
Filed January 17, 1942. Serial No. 450,282. PUBLISHED MARCH 17, 1942. Class 39.

395,490. MEN'S KNITTED UNDERWEAR. UTICA KNITTING COMPANY, Utica, N. Y.
Filed January 19, 1942. Serial No. 450,323. PUBLISHED MARCH 17, 1942. Class 39.

395,491. METAL PIPE FITTINGS. CARL MUELLER, doing business as Mueller Specialty Mfg., Co., Chicago, Ill.
Filed January 20, 1942. Serial No. 450,337. PUBLISHED MARCH 17, 1942. Class 13.

395,492. WOMEN'S HANDBAGS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed January 26, 1942. Serial No. 450,477. PUBLISHED MARCH 17, 1942. Class 3.

395,493. MATTRESSES. SUPERIOR FELT & BEDDING COMPANY, Chicago, Ill.
Filed January 26, 1942. Serial No. 450,497. PUBLISHED MARCH 17, 1942. Class 32.

395,494. RUBBER AND RUBBER CONTAINING PNEUMATIC TIRES AND TUBES FOR VEHICLE WHEELS. THE PHARIS TIRE AND RUBBER COMPANY, Newark, Ohio.
Filed January 28, 1942. Serial No. 450,545. PUBLISHED MARCH 17, 1942. Class 35.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]
THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

395,495. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PROVEN PRESCRIPTION PHARMACISTS, Missoula, Mont. Filed Feb. 28, 1939. Serial No. 416,516.

Dental
FAULTLESS
Powder

FOR DENTAL POWDER.
Claims use since June 11, 1938.

395,496. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) NEW YORK PRESSING MACHINERY CORPORATION, New York, N. Y. Filed Dec. 13, 1940. Serial No. 438,811.

NEW YORK PRESSING MACHINERY CORP.
"Featherlight"
BALANCED FOR SPEED

FOR GAS AND STEAM PRESSING IRONS INCLUDING UNDERPRESSERS AND PARTS THEREOF.
Claims use since Apr. 4, 1940.

395,497. (CLASS 39. CLOTHING.) SAMUEL F. NEWMARK, doing business as Reingold Hosiery Co., New York, N. Y. Filed Jan. 30, 1941. Serial No. 440,131.

VEIL-THIN

FOR HOSIERY.
Claims use since Dec. 15, 1940.

395,498. (CLASS 39. CLOTHING.) TRUVAL MANUFACTURERS, INC., New York, N. Y. Filed Feb. 7, 1941. Serial No. 440,432.

TRUE FABRIC
TRUE STYLE
TRUE VALUE

FOR MEN'S AND YOUNG MEN'S WEARING APPAREL—NAMELY, DRESS AND NEGLIGEE SHIRTS, PAJAMAS, AND SPORTSWEAR, CONSISTING OF SHIRTS AND TROUSERS IN ENSEMBLE SETS AND SEPARATELY.
Claims use since September, 1937.

395,499. (CLASS 6. CHEMICALS, MEDICINES AND PHARMACEUTICAL PREPARATIONS.) HARRIET HUBBARD AYER, INC., New York, N. Y. Filed Feb. 8, 1941. Serial No. 440,439.

CUZCO RED

FOR LIPSTICKS, ROUGE, AND NAIL ENAMEL.
Claims use since Jan. 20, 1941.

395,500. (CLASS 39. CLOTHING.) THE GLEMBY COMPANY, INC., New York, N. Y. Filed Feb. 25, 1941. Serial No. 440,984.

STAZON

FOR HAIR NETS, KNOWN AS WATER WAVE NETS.
Claims use since Feb. 20, 1941.

395,501. (CLASS 39. CLOTHING.) THE KENTUCKY LOOMS, INC., Louisville, Ky. Filed Feb. 26, 1941. Serial No. 441,024.

Tour-bonnette

FOR SCARF HEADPIECE.
Claims use since Jan. 31, 1941.

395,502. (CLASS 39. CLOTHING.) GLEITSMAN CHOPP & SADOWSKY, INC., New York, N. Y. Filed Mar. 11, 1941. Serial No. 441,430.


California Casuals

FOR WOMEN'S, MISSES', AND CHILDREN'S BLOUSES, SKIRTS, AND COMBINATIONS THEREOF, IN THE NATURE OF SPORTSWEAR MADE OF KNITTED, NETTED, OR WOVEN TEXTILE FABRICS OF WOOL, COTTON, LINEN, SILK, ARTIFICIAL SILK, AND MIXTURES OR COMBINATIONS OF SAID MATERIALS.
Claims use since Mar. 3, 1941.

395,503. (CLASS 39. CLOTHING.) PREMIER TEXTILE CORP., New York, N. Y. Filed Apr. 2, 1941. Serial No. 442,211.

FUL VALU

FOR MEN'S AND BOYS' OUTER SHIRTS, SWEATERS, OVERALLS, PANTS, AND CAPS; MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY, BATHROBES, AND BATHING SUITS, NIGHTSHIRTS, PAJAMAS, GLOVES OF LEATHER AND FABRIC, KNITTED AND WOVEN UNDERWEAR, SLIPPERS; MEN'S AND BOYS' SUSPENDERS AND GARTERS; AND LADIES' SLIPS AND BLOOMERS.
Claims use since Feb. 1, 1941.

395,504. (CLASS 39. CLOTHING.) PIED PIPER SHOE CO., Wausau, Wis. Filed Apr. 5, 1941. Serial No. 442,332.

HIALEAH

FOR GROWING GIRLS' SHOES MADE FROM LEATHER, FABRIC, AND COMBINATION OF LEATHER AND FABRIC.
Claims use since Mar. 21, 1941.

395,505. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) RAYBESTOS-MANHATTAN, INC., Passaic, N. J. Filed Apr. 7, 1941. Serial No. 442,369.

SEMI-METL

FOR CLUTCH FACINGS.
Claims use since Feb. 10, 1941.

395,506. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WESTERN AUTO SUPPLY COMPANY, Los Angeles, Calif. Filed Apr. 7, 1941. Serial No. 442,378.

Westwood
Supreme Quality

FOR READY MIXED PAINTS, PAINT PASTES, AND PAINT ENAMELS.
Claims use since Mar. 12, 1941.

395,507. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE CHAS. W. BRENEMAN CO., Cincinnati, Ohio. Filed Apr. 9, 1941. Serial No. 442,407.

ROLBLIND

FOR WINDOW SHADE OR CURTAIN FORMED FROM NARROW STRIPS OF METAL, PLASTIC, WOOD OR THE LIKE.
Claims use since Apr. 4, 1941.

395,508. (CLASS 39. CLOTHING.) JIM DALE PARKWAY CLOTHES, INC., New York, N. Y. Filed May 6, 1941. Serial No. 443,284.

Jim Dale
Clothes

FOR MEN'S, AND YOUNG MEN'S SUITS, TOPCOATS, AND OVERCOATS.
Claims use since Mar. 12, 1941.

395,509. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) EDISON BROTHERS STORES, INC., St. Louis, Mo. Filed May 6, 1941. Serial No. 443,286.

Gertrude Gay EBS

FOR LADIES' HANDBAGS.
Claims use since Mar. 12, 1941.

395,510. (CLASS 31. FILTERS AND REFRIGERATORS.) MURRAY M. FIBUS, doing business as Steel City Manufacturing Co., Youngstown, Ohio. Filed June 14, 1941. Serial No. 444,533.

KOOL-AIRE

FOR BEVERAGE COOLERS.
Claims use since Apr. 15, 1940.

395,511. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAM HOUSTON BROKERAGE CO., Birmingham, Ala. Filed July 1, 1941. Serial No. 444,998.

Houston's
DERRIS
MIXTURE

FOR INSECTICIDES.
Claims use since Jan. 1, 1937.

395,512. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) PLYMOUTH WHOLESALE DRY GOODS CORPORATION, New York, N. Y. Filed July 10, 1941. Serial No. 445,243.

HEALTH CONTROL
FOUNDATION

FOR LADIES' SURGICAL CORSETS.
Claims use since Apr. 11, 1941.

395,513. (CLASS 13. HARDWARE AND PLUMBING, AND STEAM-FITTING SUPPLIES.) LAMAR SLIDE FASTENER CORPORATION, New York, N. Y. Filed July 23, 1941. Serial No. 445,584.

LAMAR

FOR SLIDE FASTENERS.
Claims use since February, 1939.

395,514. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE NEVILLE COMPANY, Pittsburgh, and Neville Island, Pa. Filed Aug. 20, 1941. Serial No. 446,397.

NEVERUN

FOR PASTE-TYPE PAINT AND VARNISH REMOVER.
Claims use since March, 1941.

395,515. (CLASS 39. CLOTHING.) COWDEN MANUFACTURING COMPANY, Kansas City, Mo. Filed Sept. 18, 1941. Serial No. 447,120.

BLUSERGE

FOR SHIRT AND TROUSER ENSEMBLES, SERVICE AND WORK UNIFORMS FOR ATTENDANTS IN HOSPITALS, AND SIMILAR INSTITUTIONS, SERVICE STATIONS, AND LABORATORIES, FOR INDUSTRIAL WORKERS, AND FOR WORKERS IN DAIRIES AND AGRICULTURAL PURSUITS, OVERALLS, DUNGAREES, PANTS, OUTER SHIRTS, COATS, JUMPERS, APRONS, CAPS, JACKETS, PLAY SUITS, SMOCKS, AND WASH SUITS, ALL MADE OF COTTON, FOR MEN, WOMEN AND CHILDREN.
Claims use since Mar. 18, 1941.

395,516. (CLASS 31. FILTERS AND REFRIGERATORS.) WINSLOW ENGINEERING CO., Oakland, Calif. Filed Sept. 29, 1941. Serial No. 447,410.

FREE -FLO

FOR OIL FILTERS, SOMETIMES KNOWN IN THE TRADE AS OIL PURIFIERS OR OIL CONDITIONERS, AND PARTS THEREOF AND FILTER CARTRIDGES THEREFOR.
Claims use since July 1, 1923.

395,517. (CLASS 39. CLOTHING.) CONGRESS SHIRT COMPANY, Boston, Mass. Filed Oct. 29, 1941. Serial No. 448,219.

WEATHERPROOF
Canadian Northwest
STYLED BY Congress MODEL

FOR SPORT JACKETS AND PARKAS FOR USE BY MEN AND YOUNG MEN.
Claims use since April, 1940.

395,518. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VALENTINE LABORATORIES, INC., Chicago, Ill. Filed Nov. 1, 1941. Serial No. 448,349.

Olafsen

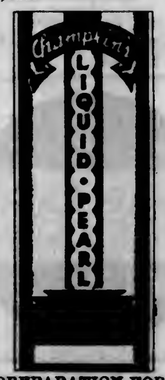
FOR COD LIVER OIL.
Claims use since 1927.

395,519. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BURKART-SCHIER CHEMICAL COMPANY, Chattanooga, Tenn. Filed Nov. 6, 1941. Serial No. 448,427.

BURK-SCHIER

FOR WET PROCESSING AGENTS FOR EVERY TEXTILE APPLICATION.
Claims use since Jan. 1, 1940.

395,520. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) O. H. SIMMONS, INC., New York, N. Y. Filed Dec. 24, 1941. Serial No. 449,744.



FOR LIQUID PREPARATION FOR CLEANSING AND BEAUTIFYING THE SKIN.
Claims use since March, 1917.

395,521. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ERIC SELIGMANN, New York, N. Y. Filed Jan. 8, 1942. Serial No. 450,079.

"TRUMETER"

FOR CLOTH MEASURING MACHINE.
Claims use since 1938.

395,522. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN LUCAS AND COMPANY, INCORPORATED, Philadelphia, Pa. Filed Jan. 15, 1942. Serial No. 450,235.

Lucas

FOR INSECTICIDES AND FUNGICIDES.
Claims use since January, 1923.

395,523. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MASSACHUSETTS CHEMICAL COMPANY, Boston, Mass. Filed Jan. 26, 1942. Serial No. 450,481.



FOR POWDER FOR CLEANING CESS POOLS, DRAINS, KITCHEN SINKS, TOILET WASH STANDS, TILE FLOORS, AND BATH ROOMS.
Claims use since July, 1940.

395,524. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BEAT HEAT CO., Chicago, Ill. Filed Feb. 2, 1942. Serial No. 450,639.

BEAT HEAT

FOR TABLETS FOR COMBATTING HEAT EXHAUSTION.
Claims use since July 15, 1940.

395,525. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) ELECTROMATIC DISTRIBUTORS, INC., New York, N. Y. Filed Feb. 18, 1942. Serial No. 451,049.

Weston

FOR PHONOGRAPHS.
Claims use since March, 1939.

395,526. (CLASS 44. DENTAL, MEDICAL AND SURGICAL APPLIANCES.) TRIMFOOT COMPANY, St. Louis, Mo. Filed Feb. 26, 1942. Serial No. 451,250.

EVEN HEEL

FOR ARCH SUPPORTS.
Claims use since Mar. 6, 1926.

395,527. (CLASS 37. PAPER AND STATIONERY.) R. N. NASON & CO., San Francisco, Calif. Filed Mar. 16, 1942. Serial No. 451,648.

PAP-R-MASK

FOR STENCILS, STENCIL PAPER, PAPER LETTERS, FIGURES AND DESIGNS FOR STENCILS.
Claims use since July 1, 1932.

395,528. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) MEINECKE & COMPANY, INC., New York, N. Y. Filed Mar. 31, 1942. Serial No. 452,052.

VARICK

FOR SURGEON'S GLOVES, CLINICAL THERMOMETERS, SANITARY PAPER KERCHIEFS, PAPER MORTUARY GOWNS, WOOD APPLICATORS, WOOD TONGUE BLADES, HYPODERMIC SYRINGES, BED AND DOUCHE PANS, AND RUBBER SHEETING.
Claims use on surgeon's gloves since 1932, clinical thermometers since 1934, sanitary paper kerchiefs since 1934, paper mortuary gowns since 1937, wood applicators since 1937, wood tongue blades since 1937, hypodermic syringes since 1938, bed and douche pans since 1939, and rubber sheeting since Mar. 1, 1941.

TRADE-MARK REGISTRATIONS RENEWED

20,911. **FAIR & SQUARE.** ARMPIT SHIELDS. Registered March 29, 1892. THE BROOKLYN SHIELD CO. Renewed March 29, 1942, to Rand Rubber Company, Inc., Brooklyn, N. Y., a corporation of New York, assignee.

20,970. **COMMON SENSE.** ARMPIT SHIELDS. Registered April 12, 1892. BROOKLYN SHIELD CO. Renewed April 12, 1942, to Rand Rubber Company, Inc., Brooklyn, N. Y., a corporation of New York, assignee.

21,734. **REPRESENTATION OF A BOAR'S HEAD.** LIQUORS AND CORDIALS. Registered September 13, 1892. GORDON & CO., London, England. Re-renewed September 13, 1942, to Gordon's Dry Gin Company Limited, Linden, N. J., and New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

154,129. **NATIONAL.** CERTAIN NAMED VEHICLES. Registered April 4, 1922. PHILLIPS, DOUP & CO. INC., Brooklyn and New York, N. Y. Renewed April 4, 1942, to Phillips, Doup & Co., Lindenhurst, N. Y., a corporation of New York.

154,251. **QUIKUT.** CARVING KNIVES, BUTCHERS' KNIVES, FRUIT KNIVES, KITCHEN KNIVES, AND CAN OPENERS. Registered April 11, 1922. THE CLYDE CASTINGS CO., Clyde, Ohio. Renewed April 11, 1942, to The Clyde Castings Co., Fremont, Ohio, a corporation of Ohio.

154,265. **DEW-TONE.** A MEDICINAL TONIC FOR THE TREATMENT OF NERVOUS TROUBLES. Registered April 11, 1922. H. T. DEWEY & SONS CO., New York, N. Y., a corporation of New York. Renewed April 11, 1942.

154,305. **DR. J. A. JONES ZENOX.** A CERTAIN NAMED MEDICINAL PREPARATION. Registered April 11, 1922. JAMES A. JONES, Wynnburg, Tenn. Renewed April 11, 1942, to James A. Jones, Yorkville, Tenn.

154,464. **EASIEPHIT.** BOOTS, SHOES, AND SLIPPERS MADE OF LEATHER, RUBBER, FABRIC, AND LEATHER AND RUBBER, LEATHER AND FABRIC, AND RUBBER AND FABRIC. Registered April 18, 1922. ABBOTT SHOE COMPANY, North Reading, Mass., a corporation of Massachusetts. Renewed April 18, 1942.

154,475. **RUBBOLASTIC.** CORSETS, BRASSIÈRES, CORSET WAISTS, CORSET COVERS, HOSE SUPPORTERS, BANDEAUX, WOMEN'S AND MISSES' DRESSES AND WAISTS. Registered April 18, 1922. AMERICAN LADY CORSET COMPANY, Detroit, Mich., a corporation of Michigan. Renewed April 18, 1942.

154,606. **NIGHTINGALE.** LADIES' HOSIERY OF SILK, COTTON, AND COMBINATIONS OF SILK AND COTTON. Registered April 18, 1922. BEN LEVENE INC. Renewed April 18, 1942, to Chas. Chipman's Sons Co., Inc., New York, N. Y., a corporation of New York assignee by mesne assignments.

154,641. **PERFECTION.** CORSETS. Registered April 18, 1922. I. NEWMAN & SONS, New Haven, Conn. Renewed April 18, 1942, to I. Newman & Sons, Inc., New Haven, Conn. and New York, N. Y., a corporation of Connecticut, assignee.

154,651. **ENSIGN.** HOSIERY. Registered April 18, 1922. PARAMOUNT KNITTING COMPANY, Chicago, Ill. Renewed April 18, 1942, to Bear Brand Hosiery Co., Kankakee, and Chicago, Ill., a corporation of Illinois, assignee.

154,807. **ESS-KAY.** LARDS. Registered May 9, 1922. THE WILLIAM SCHLUDERBERG-T. J. KURDLE CO., Baltimore, Md., a corporation of Maryland. Renewed May 9, 1942.

154,937. **MARLEEN.** WOOLEN PIECE GOODS. Registered May 16, 1922. FORSTMANN & HUFFMANN COMPANY. Renewed May 16, 1942, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey, assignee by mesne assignments.

155,078. **REPRESENTATION OF A PHOENIX.** CORD AND TWINE. Registered May 16, 1922. SAMSON CORDAGE WORKS, Boston, Mass., a corporation of Massachusetts. Renewed May 16, 1942.

155,081. **"S" AND REPRESENTATION OF A WOMAN AT A SEWING MACHINE.** FAMILY AND MANUFACTURING SEWING MACHINES, THEIR PARTS, AND ATTACHMENTS. Registered May 16, 1922. THE SINGER MANUFACTURING COMPANY, Elizabeth, N. J., and New York, N. Y. Renewed May 16, 1942, to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey.

155,096. **MULTIVANE.** CENTRIFUGAL FANS. Registered May 16, 1922. B. F. STURTEVANT COMPANY, Boston, Mass., a corporation of Massachusetts. Renewed May 16, 1942.

155,264. **THE HOLE STORY IN ONE WORD.** DRILLING, REAMING, AND TAPPING MACHINES. Registered May 23, 1922. NATIONAL AUTOMATIC TOOL COMPANY, INC., Richmond, Ind., a corporation of Indiana. Renewed May 23, 1942.

155,501. **TEA TABLE.** BREADS AND PASTRY. Registered May 30, 1922. OSWALD JAEGER BAKING COMPANY, Milwaukee, Wis., a corporation of Wisconsin. Renewed May 30, 1942.

155,564. **DISSOLVITT.** WASHING COMPOUND WITH INCIDENTAL WATER-SOFTENING PROPERTIES. Registered May 30, 1922. WILSON-IMPERIAL COMPANY, Newark, N. J., a corporation of Delaware. Renewed May 30, 1942.

155,690. **GAMEWELL.** CERTAIN NAMED ELECTRICAL APPARATUS. Registered June 6, 1922. THE GAMEWELL FIRE ALARM TELEGRAPH COMPANY, New York, N. Y. Renewed June 6, 1942, to The Gamewell Company, Newton, Mass., a corporation of Massachusetts, assignee.

155,721. **FOCO-LITE.** FLASH LIGHTS, SEARCHLIGHTS AND SPOT LIGHTS. Registered June 6, 1922. ROBERT L. HUNTER, Norfolk, Va. Renewed June 6, 1942.

155,919. **SILKO.** SMOKING AND CHEWING TOBACCO AND CIGARETTES. Registered June 13, 1922. THE AMERICAN TOBACCO COMPANY, New York, N. Y., a corporation of New Jersey. Renewed June 13, 1942.

155,966. **SHER-I-VIN.** FLAVORING EXTRACTS FOR FOOD. Registered June 13, 1922. GARRETT & COMPANY. Renewed June 13, 1942, to Virginia Dare Extract Company, Inc., Brooklyn, N. Y., a corporation of New York, assignee.

156,612. **REPRESENTATION OF AN OCTAGON.** MACHINERY WHEELS AND GEARS. Registered July 11, 1922. AMERICAN STEEL FOUNDRIES, Chicago, Ill., a corporation of New Jersey. Renewed July 11, 1942.

156,646. **SAVE YOUR BACK WITH A CIADILLAC.** ELECTRIC SUCTION SWEEPERS. Registered July 11, 1922. CLEMENTS MFG. CO., Chicago, Ill., a corporation of Illinois. Renewed July 11, 1942.

156,762. **SUPERVANE.** CENTRIFUGAL FANS. Registered July 11, 1922. B. F. STURTEVANT COMPANY, Boston, Mass., a corporation of Massachusetts. Renewed July 11, 1942.

156,831. **MAY POLE.** TABLE SIRUP. Registered July 18, 1922. THE AMERICAN MOLASSES COMPANY OF NEW YORK. Renewed July 18, 1942, to American Molasses Company, New York, N. Y., a corporation of New York, by change of name.

156,974. **ABBOTT SHOE CO.** BOOTS, SHOES, AND SLIPPERS MADE OF LEATHER, RUBBER, FABRIC, AND LEATHER AND RUBBER, LEATHER AND FABRIC AND RUBBER AND FABRIC. Registered July 25, 1922. ABBOTT SHOE COMPANY, North Reading, Mass., a corporation of Massachusetts. Renewed July 25, 1942.

157,055. **GOLD STAR.** COFFEE, TEA, SPICES, VINEGAR, AND FLAVORING EXTRACTS FOR FOODS. Registered July 25, 1922. DAVID G. EVANS COFFEE COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed July 25, 1942.

157,305. **K-SEEN.** INSECTICIDE SPRAY. Registered August 1, 1922. BALFOUR GUTHRIE & CO. Renewed August 1, 1942, to Shell Oil Company, Incorporated, San Francisco, Calif., a corporation of Virginia, assignee by mesne assignments.

157,405. **FOSS-SET.** BRUSHES—VIZ, NAIL, PAINT, VARNISH, HAND, FLOOR, CALCIMINE, WHITEWASH, AND SHAVING. Registered August 1, 1922. THE WOOSTER BRUSH COMPANY, Wooster, Ohio, a corporation of Ohio. Renewed August 1, 1942.

157,446. **"AMBRAC" AND REPRESENTATION OF AN EAGLE AND SHIELD.** NONFERROUS METALS AND ALLOYS IN CERTAIN FORMS AND CERTAIN PRODUCTS MADE FROM SUCH METALS AND ALLOYS. Registered August 8, 1922. THE AMERICAN BRASS COMPANY, Waterbury, Conn., a corporation of Connecticut. Renewed August 8, 1942.

157,560. **P'S AND Q'S.** A SERIES OF PAMPHLETS, BOOKLETS, OR LEAFLETS PUBLISHED FROM TIME TO TIME. Registered August 8, 1922. PHILADELPHIA QUARTZ COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed August 8, 1942.

157,687. **BABIES IDEAL.** INFANTS' BATH ROBES. Registered August 15, 1922. IDEAL BATH ROBE CO. INC., Brooklyn, N. Y., a corporation of New York. Renewed August 15, 1942.

158,007. **TUWAY.** MIDDY BLOUSES, CHILDREN'S DRESSES, AND BOYS' WASHSUITS. Registered August 22, 1922. MAASS & KEMPER, INC. Renewed August 22, 1942, to J. Schoeneman, Inc., Baltimore, Md., a corporation of Maryland, assignee.

158,468. **MOUNTAIN-HIKER.** BOOTS AND SHOES OF LEATHER. Registered September 5, 1922. THE JUVENILE SHOE CORPORATION OF AMERICA, Carthage, Mo. Renewed September 5, 1942, to The Juvenile Shoe Corporation of America, Aurora and St. Louis, Mo., a corporation of Missouri.

158,594. **WIZARD.** SNAP FASTENERS. Registered September 12, 1922. THE AMERICAN FASTENER COMPANY, Waterbury, Conn., a corporation of Connecticut. Renewed September 12, 1942.

158,867. **KICKERNICK.** BLOOMERS, CHILDREN'S COVERALLS, AND SLEEPING GARMENTS. Registered September 12, 1922. THE WINGET MANUFACTURING CO. Renewed September 12, 1942, to Winget Kickernick Company, Minneapolis, Minn., a corporation of Minnesota, by change of name.

158,894. **BIG JOE.** MEN'S OVERALLS AND WORK SHIRTS. Registered September 19, 1922. BERRY-BEALL DRY GOODS COMPANY. Renewed September 19, 1942, to Berry Dry Goods Company, Fort Smith, Ark., a corporation of Arkansas, by change of name.

158,912. **CALICO.** COTTONSEED MEAL FOR USE AS A FERTILIZER. Registered September 19, 1922. CALIFORNIA COTTON OIL COMPANY, Los Angeles, Calif. Renewed September 19, 1942, to California Cotton Oil Corporation, Vernon, Calif., a corporation of California, successor.

159,079. **REPRESENTATION OF A CHECKER DESIGN.** CRACK FILLER, STOVEPIPE PAINT ENAMEL, ASPHALT ROOF PAINT, AND TINNERS' RED ROOF PAINT. Registered September 19, 1922. RUTLAND FIRE CLAY CO., Rutland, Vt., a corporation of Vermont. Renewed September 19, 1942.

159,106. **THE JUNIOR.** CERTAIN ARTICLES OF CLOTHING. Registered September 19, 1922. THE SONNY BLOUSE CO. INC. Renewed September 19, 1942, to S. Liebovitz & Sons, Inc., New York, N. Y., a corporation of New York, assignee.

159,253. **AMERICAN LUMBERMAN.** WEEKLY PERIODICAL PUBLICATIONS. Registered September 26, 1922. THE AMERICAN LUMBERMAN, Chicago, Ill., a corporation of Illinois. Renewed September 26, 1942.

159,257. **DRYJECTOR.** AIR-CURRENT DRYING APPARATUS FOR MANUFACTURING AND INDUSTRIAL OPERATIONS. Registered September 26, 1922. ANDREWS & GOODRICH, INC., Boston, Mass. Renewed September 26, 1942, to Andrews and Goodrich, Inc., Dorchester, Mass., a corporation of Massachusetts.

159,342. **EAGLE.** LOCKS, NIGHT LATCHES, AND PADLOCKS. Registered September 26, 1922. EAGLE LOCK CO., Terryville, Conn., a corporation of Connecticut. Renewed September 26, 1942.

159,347. **ELECTROMET.** FERROUS AND NONFERROUS METALS AND ALLOYS. Registered September 26, 1922. ELECTRO METALLURGICAL COMPANY, Glen Ferris, W. Va., and Niagara Falls, N. Y. Renewed September 26, 1942, to Electro Metallurgical Company, New York, N. Y., a corporation of West Virginia.

159,357. **BOND.** CAKE, PASTRY, BISCUITS, COOKIES, CRACKERS, AND FRIED BAKERY PRODUCTS—NAMELY, DOUGHNUTS. Registered September 26, 1922. GENERAL BAKING COMPANY, New York, N. Y., a corporation of New York. Renewed September 26, 1942.

159,398. **CORN BELT.** WIRE FENCING AND BARB WIRE. Registered September 26, 1922. KEYSTONE STEEL & WIRE COMPANY. Renewed September 26, 1942, to Keystone Steel & Wire Company, Peoria, Ill., a corporation of Illinois.

159,414. **G-O-S.** A MALT SOFT DRINK. Registered September 26, 1922. S. LIEBMANNS SONS INC., New York, and Brooklyn, N. Y. Renewed September 26, 1942, to Liebmann Breweries, Inc., Brooklyn, N. Y., a corporation of New York, assignee.

159,456. **SILK FINISH.** WHEAT FLOUR. Registered September 26, 1922. NEBRASKA CONSOLIDATED MILLS CO., Grand Island, Nebr. Renewed September 26, 1942, to Nebraska Consolidated Mills Co., Omaha, Nebr., a corporation of Nebraska.

159,513. **EUREKA.** ANTISPLASH WATER FILTERS—NAMELY, A SMALL SCREW-ON STRAINER FOR FAUCETS. Registered September 26, 1922. SEED FILTER & MFG. CO., INC., New York, N. Y., a corporation of New York. Renewed September 26, 1942.

159,596. **SHASTA.** BRUSHES—NAMELY, PAINT-BRUSHES, VARNISH BRUSHES, WHITEWASH AND CALCIMINE BRUSHES, WALL BRUSHES, HORSE BRUSHES, HAIRBRUSHES, AND FLESH BRUSHES. Registered September 26, 1922. THE WOOSTER BRUSH COMPANY, Wooster, Ohio, a corporation of Ohio. Renewed September 26, 1942.

159,597. **OHIO.** BRUSHES—NAMELY, PAINT-BRUSHES, VARNISH BRUSHES, WHITEWASH AND CALCIMINE BRUSHES, WALL BRUSHES, HORSE BRUSHES, HAIRBRUSHES, AND FLESH BRUSHES. Registered September 26, 1922. THE WOOSTER BRUSH COMPANY, Wooster, Ohio, a corporation of Ohio. Renewed September 26, 1942.

159,741. **PORETE.** SIDING, ROOFING, INSULATING, PARTITION, FLOOR, AND SIMILAR BUILDING SLABS MADE OF LIGHT-WEIGHT PORTLAND-CEMENT CONCRETE. Registered October 3, 1922. PORETE MFG. COMPANY, Newark, N. J. Renewed October 3, 1942, to Porete Mfg. Co., North Arlington, N. J., a corporation of New Jersey.

159,773. **BUCAIRE.** SHIRTINGS IN THE PIECE WOVEN FROM SILK OR COTTON OR MIXTURES OF THE SAME. Registered October 3, 1922. TURNER & WALLS. Renewed October 3, 1942, to Albert H. Vandam Co., Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

159,789. **LA CROSSE.** WOOLEN GOODS IN THE PIECE. Registered October 3, 1922. WORUMBO MANUFACTURING COMPANY, Bath, Maine. Renewed October 3, 1942, to Worumbo Manufacturing Company, Lisbon Falls, Maine, a corporation of Maine.

159,867. **GRAND PRIZE.** WHEAT FLOUR. Registered October 10, 1922. DULUTH-SUPERIOR MILLING COMPANY, Duluth, Minn., and New York, N. Y. Renewed October 10, 1942, to Standard Milling Company, New York, N. Y., a corporation of Delaware, assignee.

159,897. **JIGGTIME.** PREPARED FLOUR. Registered October 10, 1922. HECKER-JONES-JEWELL MILLING COMPANY. Renewed October 10, 1942, to Standard Milling Company, New York, N. Y., a corporation of Delaware, assignee.

160,032. **UNION GRAINS.** DAIRY RATION. Registered October 10, 1922. THE UBIKO MILLING COMPANY, St. Bernard, Ohio, a corporation of Ohio. Renewed October 10, 1942.

REISSUES

MAY 26, 1942

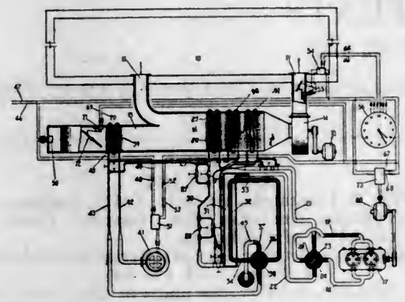
22,100

REVERSED CYCLE HEATING SYSTEM

Kemper P. Brace, South Bend, Ind., and Robert B. P. Crawford, Athens, Ga.

Original No. 2,135,742, dated November 8, 1938, Serial No. 18,685, April 27, 1935. Application for reissue October 17, 1939, Serial No. 299,910

7 Claims. (Cl. 257—3)



7. A convertible air conditioning system comprising means for circulating water from a natural source thereof, a refrigerating system including a compressor, a first heat exchange device in contact with the air to be conditioned, and a second heat exchange device in contact with the water circulated by said circulating means; means whereby the water is brought into heat exchange relation with the air to be conditioned prior to contact of the air with said first heat exchange device; and a system of control valves for controlling the flow of refrigerant in said refrigerating system whereby, in one position of the valves, the refrigerant may be caused to flow in succession through said first heat exchange device and thereafter through said second heat exchange device and, in another position of the valves, the refrigerant may be caused to flow in succession through said second heat exchange device and thereafter through said first heat exchange device.

22,101

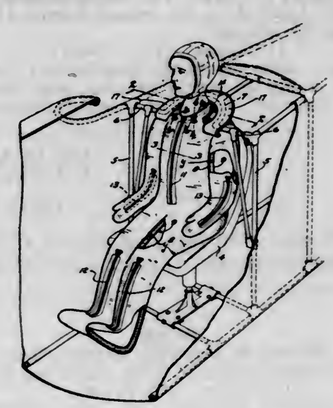
LIQUID JACKETED AVIATOR'S GARMENT

Merrill R. Holste, St. Paul, Minn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Original No. 2,228,115, dated January 7, 1941, Serial No. 167,593, October 6, 1937. Application for reissue December 24, 1941, Serial No. 424,367

13 Claims. (Cl. 128—1)

7. The method of preventing to a large degree abnormal conditions in the human body caused by rapid changes in motion of the body, which consists in applying a confining pressure about an area of the body by subjecting this area to the pressure of an expansible column of liquid, and subjecting this liquid to a pressure that varies as the rate of body movement varies, to



thereby vary the confining pressure upon said area of the body.

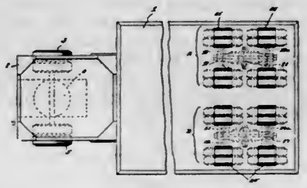
22,102

HEAVY DUTY VEHICLE

Frederick Malcolm Reid, Detroit, Mich., assignor to Fruehauf Trailer Company, Detroit, Mich., a corporation of Michigan

Original No. 1,690,247, dated November 6, 1928, Serial No. 117,944, June 23, 1926. Application for reissue August 29, 1941, Serial No. 408,907

8 Claims. (Cl. 280—81)



1. In a heavy duty vehicle, a frame, two four-wheel trucks forming the sole support for one end of the frame and the wheels of which are adapted for direct contact with the ground, one truck being secured adjacent each side of the frame and both of the said trucks being rigidly secured to the frame by transversely extending pivot pins so that they can pivot in a vertical plane, the four ground engaging wheels of each truck being mounted in forward and rearward pairs, each pair of ground engaging wheels being connected to its respective truck by a longitudinally extending pivot pin which permits

them to pivot in a vertical plane which is at right angles to the pivotal movement of the truck.

22,103
MAGNETICALLY TUNED HIGH FREQUENCY CIRCUITS
Robert L. Harvey, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Original No. 2,180,413, dated November 21, 1939, Serial No. 113,468, November 30, 1936, which is a division of Serial No. 56,993, December 31, 1935. Application for reissue August 15, 1941, Serial No. 407,086
21 Claims. (Cl. 178—44)

1. In a radio frequency transformer comprising an elongated shield housing, and magnetic means therefor, a pair of coupled inductors in said housing having adjusting members extending beyond the opposite ends respectively of said housing for individual inductance adjustment



of said inductors, said adjusting members having substantially no effect on the coupling between said inductors.

PLANT PATENTS

GRANTED MAY 26, 1942

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

518
ROSE
Michael H. Horvath, Mentor, Ohio
Application October 28, 1941, Serial No. 416,832
1 Claim. (Cl. 47—61)

A variety of climbing *rosa setigera* hybrid as herein shown and described and characterized particularly by the large size, shape and color of the flower; the shape, color, toughness and quality of the petals; the resistance of the plant and foliage to disease and its practical immunity to black spot, mildew, and other rose maladies; the silicious coating of the foliage; and the delightful fragrance of the bloom.

519
BUDDLEIA
Paul J. Schmidt, Youngstown, Ohio, assignor to The General Nurseries Company, Painesville, Ohio, a corporation of Ohio
Application November 6, 1941, Serial No. 418,034
1 Claim. (Cl. 47—60)

The new and distinct variety of Buddleia herein shown and described and characterized particularly in the striking and unusual color, large size, and compactness of the inflorescence as a whole, and the coexistence for long periods in a high degree of freshness and beauty of all the florets of an individual inflorescence.

520
PEACH TREE
Albert W. Wahl, Clarkston, Wash., assignor to H. Lynn Tuttle, Clarkston, Wash.
Application December 8, 1939, Serial No. 308,197
1 Claim. (Cl. 47—62)

A new and distinct variety of peach tree, as herein described, characterized by its exceptional hardiness and productivity, the tenacious adherence of the fruit to the tree, the keeping qualities of the fruit and its resistance to rotting or discoloration from bruises, the desirable shape of the fruit and its uniformity in size, shape and color, the rather long period of bloom and the tendency to early dormancy as associated with hardiness and productivity.

521
ROSE PLANT
Walter E. Lammerts, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif., a corporation of California
Application October 14, 1941, Serial No. 414,963
1 Claim. (Cl. 47—61)

A new and distinct rose plant of the hybrid tea class, characterized as to novelty by its vigorous, spreading habits of growth; the decided resistance to mildew of its foliage; the large size and perfection of its flowers under average garden care; the unusual combination of colors and thick, heavy substance of the petals of these flowers; and the strong combination of tea and spicy fragrance thereof, substantially as shown and described.

522
ROSE PLANT
Walter E. Lammerts, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif., a corporation of California
Application November 24, 1941, Serial No. 420,305
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant, characterized as to novelty by its vigor of growth, the extremely high and unusual fragrance of its flowers, color combination of said flowers, number of petals thereof, and disease resistance of the plant, substantially as shown and described.

523
ROSE PLANT
Theodore J. Morris, San Fernando, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif., a corporation of California
Application November 18, 1941, Serial No. 419,643
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the climbing class, characterized as to novelty by its vigorous growing habit to unusual height, its production of greater number of flowers than found on its parent variety at any one time, its habit of intermittent flowering throughout the growing season, and the greater number of petals per flower than found on its parent variety, substantially as shown and described.

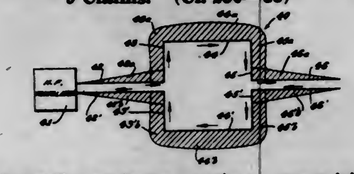
524
ROSE PLANT
Herbert C. Swim, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif., a corporation of California
Application October 21, 1941, Serial No. 415,961
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant, characterized as to novelty by its climbing habit of growth, greater floriferousness and petalage than is found in its parent grown under comparable conditions; and intermittent blooming throughout the growing season, substantially as shown and described.

PATENTS

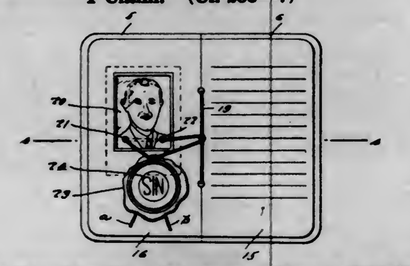
GRANTED MAY 26, 1942

2,283,897
ANTENNA SYSTEM
Andrew Alford, New York, N. Y., assignor, by mesne assignments, to International Telephone & Radio Manufacturing Corporation, a corporation of Delaware
Application April 26, 1939, Serial No. 270,173
9 Claims. (Cl. 250—33)



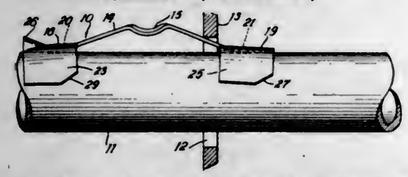
1. A radio antenna system comprising a peripherally arranged planar radiant acting linear conductor means of small dimensions relative to the operating wavelength arranged along a planar periphery, a transmission line section directly connected to and forming a continuation of said radiant acting conductor means said section being dimensioned to tune said system to the operating frequency to produce substantially uniform current distribution in said radiant acting conductor means, energy transfer means coupled to said transmission line section in energy transfer relation at a point such that if energy were supplied thereat current would circulate about said periphery in the same sense at all points, whereby radiant action of said system is substantially uniform in all directions about said periphery and has everywhere a polarization substantially parallel to said plane.

2,283,898
IDENTIFICATION DEVICE
Salvatore Arico, New Orleans, La.
Application May 14, 1941, Serial No. 393,440
1 Claim. (Cl. 283—7)



An identification device comprising a foldable book back having openings therein spaced along said fold, a leaf forming assembly in said back comprising a sheet folded centrally to provide leaf forming sections each folded centrally to provide a pair of leaves, the sections being provided with openings spaced along the folds thereof for registration with the openings of said back, a flexible tie member threaded through said openings to bind the sheets to said back, said member tying a pair of said leaves together in superposed relation, and one leaf of said pair being provided with a sight opening therein, an identification panel interposed between said pair of leaves for viewing through said sight opening, and having openings therethrough, said tie member being threaded through the openings in said panel, and a seal securing the ends of said tie member to one of said leaves.

2,283,899
PIPE CLAMP
Claude M. Baker, Winnetka, Ill., assignor of one-half to Jay V. Wescott and one-half to Florence W. Wescott, both of Chicago, Ill.
Application May 24, 1940, Serial No. 337,024
6 Claims. (Cl. 248—56)



5. A clamp of the class described comprising a resiliently flexible bow member, concave pipe seating means at the ends of said bow member and facing inwardly and extending laterally thereof, a concave support engaging portion on and laterally traversing said bow member intermediate said seating means, the concavity of said support engaging portion facing outwardly of the bow member, and pipe engaging fingers extending oppositely from each of said seating means and laterally with respect to said bow member.

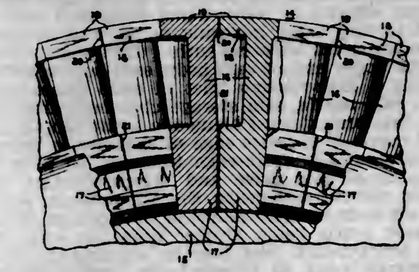
2,283,900
PROCESS FOR PRODUCING RESINS OF THE SULPHUR DIOXIDE-OLEFIN TYPE
Maxwell M. Barnett, Port Sulphur, La., assignor to Freeport Sulphur Company, New York, N. Y., a corporation of Delaware
No Drawing. Application February 7, 1939, Serial No. 255,051
10 Claims. (Cl. 260—94)

1. The process for producing resins of the sulphur dioxide-olefin type which comprises reacting sulphur dioxide and olefin in the presence of a substantial molar excess of olefin and in the presence of catalyzing material comprising ascaridole and halogen hydride.

2,283,901
TURBINE BLADING
Edwin E. Arnold, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 16, 1940, Serial No. 324,271
7 Claims. (Cl. 253—77)

1. In an elastic-fluid turbine supplied with elastic fluid at relatively high temperature and pressure, a row of moving blades of an initial impulse stage and means for maintaining the stresses of said moving blades relatively low in relation to forces applied thereto and for increasing the natural blade frequency thereof, said means comprising the arrangement of said blades in a circumferential series of groups of blades,

each blade having integral root and shroud portions arranged to provide opposed faces, and cu-

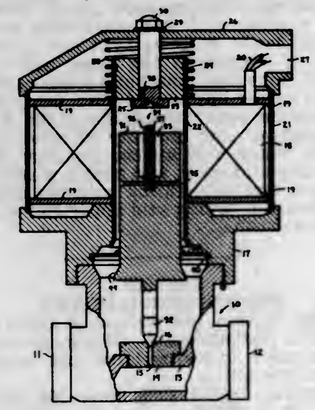


prous brazing material joining the opposed faces of the root and shroud portions of the blades of each group.

2,283,902
MASTER ALLOY
John Wulff, Cambridge, Mass., assignor to The Chemical Foundation, Incorporated, a corporation of Delaware
No Drawing. Application July 8, 1939, Serial No. 283,363
2 Claims. (Cl. 75—171)

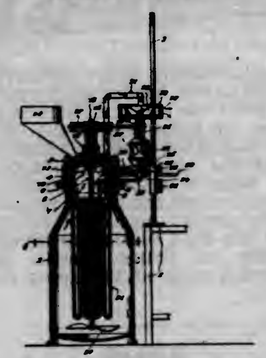
1. A method of producing chromium-nickel stainless steel characterized by improved resistance to pit corrosion containing homogeneously distributed silver which comprises forming a solid solution master alloy of silver nickel, adding such master alloy to molten stainless steel in an amount sufficient to establish a predetermined percentage of homogeneously distributed silver in the final alloy.

2,283,903
VALVE
Joseph P. Ashcraft, Dallas, Tex., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application April 29, 1940, Serial No. 332,172
7 Claims. (Cl. 175—372)



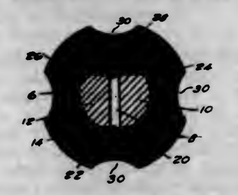
1. An electromagnetic actuator, comprising in combination, a coil, a core movable within said coil, a stop for limiting the movement of said core and having a substantially conical depression therein, and an elongated thermostatic member attached at one end to said core and formed at its other end to cooperate with said conical depression, so that expansion of said member causes it to be forced slightly out of said depression and contraction of said member causes it to separate from the walls of said depression.

2,283,904
JIFFY MILK COOLER
Edwin F. Baumgarden, Blissfield, Mich.
Application November 26, 1941, Serial No. 420,598
2 Claims. (Cl. 31—4)



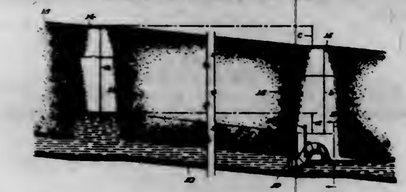
1. In an apparatus of the class described, the combination with a support, of vertical units on said support, an adjustable rack on said vertical units, a head carried by said rack, a motor carried by said rack, a suction fan supported upon said rack, means connecting said suction fan to said head, an agitator carried by said head, cooling means mounted upon said head, a pump in communication with said cooling means, and means connecting said motor to said agitator, fan and pump, whereby said units are simultaneously operated.

2,283,905
SWITCH HANDLE
James F. Beal, Bridgeport, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a corporation of Connecticut
Application May 31, 1940, Serial No. 338,085
10 Claims. (Cl. 287—53)



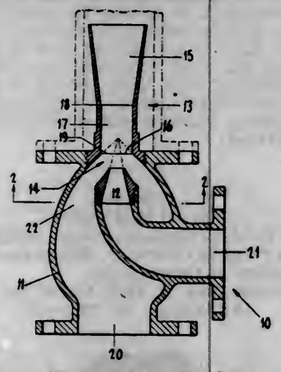
5. A handle connection including a handle having a non-circular socket with at least one flat side for receiving a shaft end correspondingly configurated, said shaft end being substantially longitudinally slotted in a plane intersecting said flat side to provide spaced tang portions, and a substantially wedge-shaped projection fixed to the inner wall of said socket substantially opposite said flat side so as to enter the space between said tang portions to spread the same into intimate engagement with the walls of said socket, and to maintain the flat sides of said handle socket and shift in intimate engagement.

2,283,906
SEWAGE METER
Richard Bennett, Phoenix, Ariz.
Application March 24, 1941, Serial No. 384,988
5 Claims. (Cl. 73—215)



1. A liquid metering device comprising a tubular conduit having horizontal end portions disposed one above the other, an inflatable member mounted on the lower end of the conduit and adapted to be inflated to set up a fluid tight connection with the internal wall of a flow pipe in which the same is coaxially disposed whereby fluid flowing through the pipe is required to flow through the conduit, means for registering the pressure of the fluid within the conduit, and a plate having an orifice therein detachably mounted transversely of the upper end of the said conduit.

2,283,907
HYDRAULIC CIRCULATOR
Philip Berman, New York, N. Y.
Application April 25, 1941, Serial No. 390,258
1 Claim. (Cl. 103—262)



In a stream-lined water circulator, an elongated hollow body for driven water, said hollow body having a curved elbow-shaped inlet terminating in a conical nozzle for drive water under pressure, said hollow body being in circumscribing relation with said nozzle and providing a storage chamber, said body having diminished circular cross-sections from said inlet to the discharge end of said nozzle, the inner contour of said body coextensive with said inlet and nozzle being defined by a radius of curvature equal to the maximum inner diameter of said body, said body comprising a cylindrical metering or mixing chamber for said drive and driven water, said mixing chamber having upper and lower metering planes, said lower metering plane being considerably spaced from the outlet from said nozzle a distance substantially equal to the outlet diameter of said nozzle, the inner wall of said body being linearly shaped at its upper end to provide a guide wall substantially parallel with and extending beyond said nozzle for continuously guiding said driven water beyond said nozzle and directly into said mixing chamber, the meeting junction of the drive and driven streams of water being positioned adjacent to said lower metering plane, said mixing chamber communicating with a diverging funnel at the upper end of said body, said hollow body having a recirculation inlet in axial alinement with said nozzle, said storage chamber being of annular form at least along the entire length of said nozzle, the outlet edge of said nozzle being of substantially knife-edge thickness to permit merging of said drive and driven streams of water without turbulence, the difference in area of said body and said nozzle at the point of inlet to said nozzle being greater than the area of said recirculation inlet, thereby bringing the full discharge head in substantially undiminished degree to said meeting junction.

2,283,908
DISPLAY DEVICE
Howard Barry, Brooklyn, N. Y.
Application June 26, 1940, Serial No. 342,420
3 Claims. (Cl. 40—142)

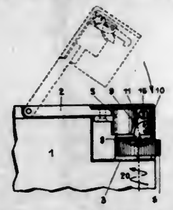


1. A display device adapted to removably sustain indicia members comprising a one piece resilient tortuous body defining a channel shaped holder including a plurality of substantially triangularly shaped cross sectional units characterizing superimposed ribs, each of said ribs having a front vertical wall and rearwardly extending upper and lower walls at least one of which is inclined in respect to the other and defining with said front wall upper and lower corner lips, the lower corner lips of said units being disposed contiguous the upper corner lips of the next successive units of said plurality to removably and yieldingly clamp said indicia members, a frame surrounding said body, and spring means within said frame and cooperating with the upper end of said body for urging said upper and lower lips towards each other.

2,283,909
PYROPHORIC LIGHTER
Léon Bolle, Geneva, Switzerland, assignor of one-half to La Nationale S. A., Geneva, Switzerland, a corporation of Switzerland, and one-half to Herbert Dunhill
Application April 1, 1940, Serial No. 327,265
In Switzerland April 24, 1939
3 Claims. (Cl. 67—7.1)

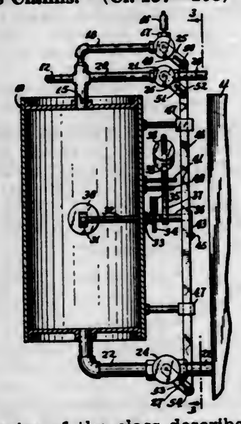
1. In a pyrophoric lighter, the combination, comprising, a casing having a wall extending inwardly at right angles to an outer face thereof, a wick on said wall, a snuffer device for covering and uncovering the exposed end of said wick

pivoted to the casing and spring biased to uncovering position, a flint, a friction wheel for the flint and mounted to rotate on a fixed axis disposed vertically to said wall, said wheel having a peripheral portion exposed at the face of the casing from which said wall extends inwardly, a hook fixed on the casing and having a keeper portion parallel to said wall, an annular ratchet on the side of the friction wheel opposite said wall, a latch pivotally carried by the snuffer device on an axis disposed at right angles to the axis of the wheel and ratchet and having its lower end adapted to engage and disengage said hook, an arm arranged parallel to the latch and having a right angular tubular portion coaxial



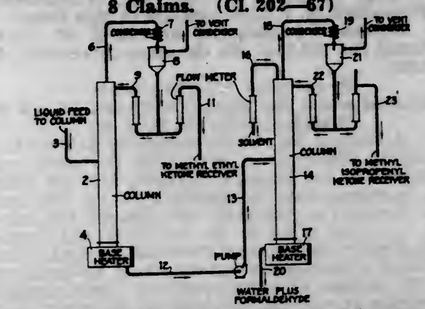
with and surrounding the pivot axis of the latch, cooperating parts on the latch and tubular portion to provide relative idle movement therebetween, a pawl pivoted to the lower end of the arm for engaging the ratchet, said pawl when positively moved by the ratchet first causing the takeup of idle movement between the arm and the latch, and then causing the release of the latch from the hook, and spring means for normally urging the pawl toward the ratchet and also urging the latch toward the hook, said spring means also permitting relative idle movement of the pawl relative to the latch to prevent disengagement of the latter from the keeper hook as the pawl seats on the ratchet when the snuffer device is moved to wick covering position.

2,283,910
AUTOMATIC THREE-WAY VALVE CONTROL FOR STEAM HEATING SYSTEMS
Ferdinand N. Borsett, Bronx, N. Y.
Application November 27, 1940, Serial No. 367,366
8 Claims. (Cl. 137—103)



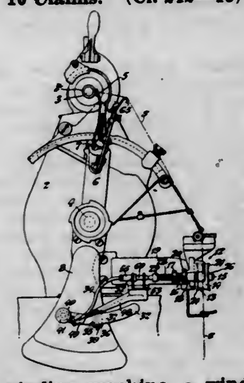
1. In a device of the class described having a tank and pipe lines carrying water to and from said tank and controlled by valves connected to a slidably mounted rod, means for moving said rod to open or close said valves in unison, comprising a shaft extended through one wall of said tank, a float mounted on the inner end of said shaft to move up and down as the level of said water changes to rotate said shaft, a segmental gear mounted on the outer end of said shaft, a stud shaft rotatively mounted on the outside of said tank, a gear fixedly mounted on said stud shaft and meshing with said segmental gear to rotate said stud shaft, and means connecting said stud shaft with said rod to cause said rod to move therewith.

2,283,911
METHOD FOR TREATING UNSATURATED KETONES CONTAINING ALDEHYDE
Joseph H. Brant and Benjamin Thompson, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application September 7, 1939, Serial No. 293,784
8 Claims. (Cl. 202—67)



8. In a process for separating mixtures containing as essential ingredients at least one of the components acroleins, aliphatic aldehydes, aliphatic, aromatic and vinyl ketones, in admixture with formaldehyde, the steps which comprise subjecting the mixture to a plurality of distillations and during at least one of said distillations treating the components with water introduced counter-currently whereby formaldehyde is extracted therein.

2,283,912
TENSION DEVICE FOR WINDING AND LIKE MACHINES
Thomas N. Bushey, Cranston, R. I., assignor to Universal Winding Company, Boston, Mass., a corporation of Massachusetts
Application September 4, 1940, Serial No. 355,879
10 Claims. (Cl. 242—45)



1. In a winding machine, a winding spindle,

means for traversing yarn longitudinally of the spindle, tension-means adapted to act against the yarn to resist its draft, means for applying pressure to said tension-means, a member movable by and with the growth in diameter of the winding, a flexible element connected to be moved by said member to transmit motion directly therefrom to the pressure means to regulate the action of the latter, and means for guiding said element throughout its length to cause it to move longitudinally in a predetermined path whereby to act on the pressure means to gradually vary the tension on the yarn throughout the winding of a package.

2,283,913

COMPOUNDS OF THE CYCLOPENTANOPOLYHYDROPHENANTHRENE SERIES AND A METHOD FOR PRODUCING THEM

Adolf Butenandt, Danzig-Langfuhr, Free State of Danzig, assignor to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey

No Drawing. Application November 26, 1934, Serial No. 754,854. In Germany November 25, 1933

23 Claims. (Cl. 260—397.4)

(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)

1. A method for the conversion of ketonic by-products obtained on producing the male sex hormone of the formula $C_{19}H_{30}O_2$, into the male sex hormone, said by-products having the carbon skeleton of the male sex hormone but having a double bond in the molecule and corresponding to the general formula $C_{19}H_{32}O_2$, said method comprising subjecting said by-products to the action of a halogenizing agent, hydrogenating the double bond of the halogen compound obtained thereby under conditions which will not effect reduction of the keto group, reacting the hydrogenated halogen compound with an agent capable of replacing the halogen with an acyloxy group, saponifying the ester compound to the male sex hormone so obtained, and isolating the latter.

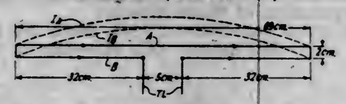
2,283,914

ANTENNA

Philip S. Carter, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application July 24, 1937, Serial No. 155,385

17 Claims. (Cl. 250—33)



1. An antenna system operative over a wide range of frequencies comprising an aerial conductor having a pair of separated arms arranged end to end and providing terminals at the adjacent ends of said arms, another aerial conductor arranged parallel to said first conductor and spaced very close thereto relative to the length of the operating wave, connections between the ends of said last conductor and points on said arms removed from the adjacent ends of said arms, whereby the impedance of said antenna system at said terminals is increased over that of a single conductor dipole, and a two-wire open feeder line having a predetermined impedance directly connected to said terminals, the impedance of said antenna at said terminals being of the order of the impedance of said two-wire open feeder line, whereby said antenna system has an extremely flat impedance versus frequency characteristic over said range of frequencies.

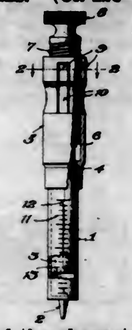
2,283,915

SYRINGE

Samuel F. Cole, Bethesda, Md.

Application December 1, 1938, Serial No. 243,461

16 Claims. (Cl. 128—218)



1. In a device of the character described, the combination of a tubulated container for liquids, a liquid ejecting means adjustably mounted within the container, indicia on the container readable with reference to the periphery of the ejecting means to indicate primary measurements, indicia on the ejecting means, and secondary indicia on the container adapted to cooperate with the indicia on the ejecting means to supplement the primary measurements.

2,283,916

WELDING

George F. Comstock, Niagara Falls, N. Y., assignor to The Titanium Alloy Manufacturing Company, New York, N. Y., a corporation of Maine

No Drawing. Application September 18, 1940, Serial No. 357,306

4 Claims. (Cl. 219—8)

1. A welding rod comprising 4 to 6% chromium, 1 to 10% titanium, up to 0.1% carbon, and iron, the amount of titanium being at least 10 times the amount of carbon, said rod being provided with a coating containing a major proportion of calcium fluoride with not more than 5% of substances reducible by titanium at welding temperatures.

2,283,917

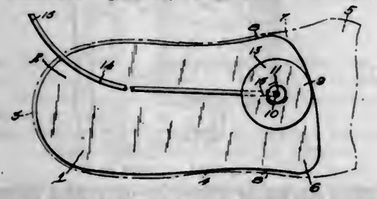
FOOT CORRECTIONAL DEVICE

Myron S. Crissy, Dedham, Mass.

Application December 28, 1940, Serial No. 372,067

13 Claims. (Cl. 36—71)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A metatarsal support adapted to be worn in a shoe, said support including an upper section of a substantially flexible subsole, an elevating member mounted under said subsole, and a strand adapted to variably increase the height of said elevating member for bulging said subsole smoothly upward under the shanks of the metatarsal bones of a foot.

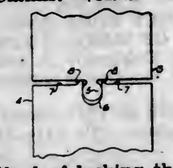
2,283,918

METHOD OF MAKING BUSHINGS

Arthur Dekome, Cleveland, Ohio, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a corporation of Ohio

Application May 2, 1940, Serial No. 333,015

4 Claims. (Cl. 29—149.5)



3. In a method of locking the abutting edges of a cylindrically formed sheet metal bushing into a permanent engagement, the steps which consist in forming a tongue projecting from one of the abutting edges of said bushing and a recess oppositely disposed thereto in the other of the abutting edges of said bushing and then forcing said tongue into said recess by relative circumferential movement of the tongue and recess and upsetting said tongue circumferentially into an interlocking engagement with the walls of said recess.

2,283,919

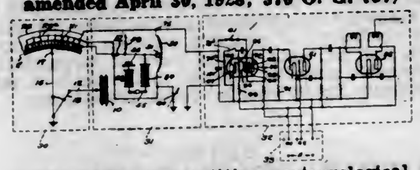
ART OF RADIOMETEOROGRAPHY

Harry Diamond, Washington, D. C., and Wilbur S. Hinman, Jr., Falls Church, Va., assignors to the Government of the United States, as represented by the Secretary of Commerce

Application May 4, 1938, Serial No. 206,066

21 Claims. (Cl. 73—151)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. Means for transmitting meteorological information and like factors, as from an unmanned balloon, comprising means for transmitting a carrier wave, means for applying to said carrier wave modulations characteristic of the respective factors to the transmitted, means for varying the modulations applied thereby in accordance with variations in said respective factors, and barometric pressure responsive means for affecting said applications serially in response to definite incremental changes in barometric pressure.

2,283,920

PRODUCTION OF ALIPHATIC ACIDS

Henry Dreyfus, London, and Walter Henry Groombridge, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application March 22, 1939, Serial No. 263,420. In Great Britain April 1, 1938

6 Claims. (Cl. 260—541)

1. Process for the manufacture of lower aliphatic acids from their salts, which comprises bringing carbon dioxide into contact with a solution of the salt in concentrated aqueous ethyl alcohol maintained at a temperature above 70° C. so as to form a corresponding acid salt, and treating the solution of the acid salt so obtained to obtain the free acid therefrom.

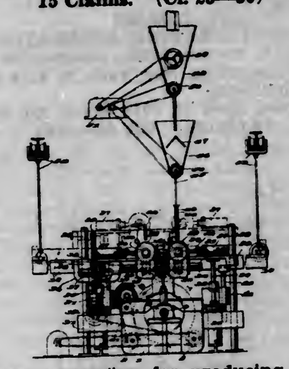
2,283,921

APPARATUS FOR MOLDING PIPE

John Feria, Camden, N. J., assignor of one-fourth to Paul X. Blaettler, Oaklyn, N. J.

Application December 23, 1938, Serial No. 247,507

15 Claims. (Cl. 25—30)



1. In an apparatus for producing pipes, the combination of means for holding and journaling a mandrel to receive plastic material thereon, tracks underlying the journaling means, means for raising the mandrel from its supported position on the tracks out of the holding and journaling means for removal from the machine, a calender roll normally bearing against the mandrel in its forming position, and means for retracting said calender roll out of bearing relative with the mandrel.

2,283,922

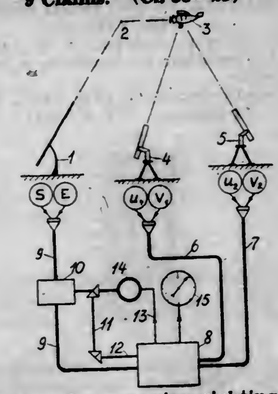
APPARATUS FOR SURVEYING AND ASCERTAINING SIGHTING ERRORS IN SHOOTING PRACTICE AGAINST MOVING TARGETS, ESPECIALLY AIRPLANES

Friedrich Ernst Fischer, Erlenbach, Switzerland

Application November 26, 1938, Serial No. 242,510

In Switzerland February 9, 1937

9 Claims. (Cl. 35—25)



1. Apparatus for surveying sighting errors in

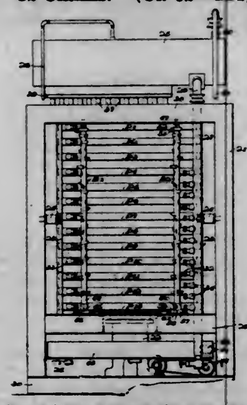
target practice against moving objects, especially airplanes and in particular by means of percussion-primed ammunition, comprising a pair of theodolites, a central computing apparatus, means for transmitting the settings of the two theodolites as well as those of the gun continuously to the said central apparatus, and means for automatically delaying the time of run of the translatory movement of the gun-settings for an amount of time corresponding to that required by the projectile to cover its trajectory up to a point lying at the shortest distance from the true station of the airplane.

2,283,923

REFRIGERATING APPARATUS

Bicknell Hall, Boston, Mass., assignor to General Foods Corporation, New York, N. Y., a corporation of Delaware

Application April 27, 1940, Serial No. 332,061
32 Claims. (Cl. 62—114)



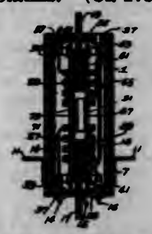
1. A refrigerating apparatus comprising a plurality of horizontally disposed refrigerated plates mounted one above the other in a stack in unconnected relationship and movable relatively to one another to receive and compress therebetween comestibles to be frozen, and manually variable means common to said plates for supporting the same in any selected one of a plurality of differently spaced, non-freezing or loading positions.

2,283,924

MAGNETICALLY TUNED HIGH FREQUENCY CIRCUITS

Robert L. Harvey, Oaklyn, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application December 31, 1935, Serial No. 56,993
24 Claims. (Cl. 178—44)



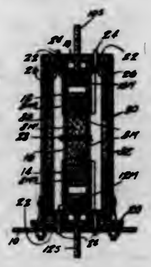
1. A pair of resonant coupled circuits for an intermediate frequency amplifier of a superheterodyne receiving system, comprising a pair of fixed inductors, having turns disposed in extended relation, a relatively adjustable core of magnetically permeable material for each inductor, said inductors being loosely coupled and relatively so disposed that certain respective turns are adjacent and other turns are remotely positioned, said cores being disposed for operation in the field of said remotely positioned turns for varying the self inductance of said inductors without substantially changing the coefficient of coupling.

2,283,925

HIGH FREQUENCY CORE AND SHIELD AND METHOD OF MAKING THE SAME

Robert L. Harvey, Oaklyn, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application April 30, 1937, Serial No. 140,067
16 Claims. (Cl. 171—119)



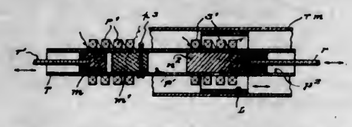
1. In a radio frequency coupling system, a pair of magnetically coupled inductors, said inductors having turns positioned relatively remote magnetically and turns relatively closely coupled, respectively, a magnetically permeable core for at least one of said inductors, said core being adjustably disposed for operation substantially in the field of the remotely positioned turns thereof, whereby the self-inductance of said one of said inductors may be independently adjusted to a desired value without substantially affecting the coefficient of coupling between said inductors, and separate spaced cores of magnetically permeable material disposed in the fields of said relatively closely coupled turns, respectively.

2,283,926

COUPLING METHOD AND APPARATUS

Robert L. Harvey, Oaklyn, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application May 31, 1938, Serial No. 210,935
16 Claims. (Cl. 178—44)



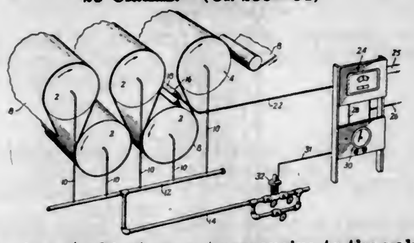
1. The method of broadening the frequency band width of a plurality of tuned fixed frequency type magnetically coupled circuits by means of a body of magnetically permeable material, said method comprising maintaining the contour of the resonance response characteristic and the resonant frequency of said circuits substantially constant while increasing, at a relative rate calculated to insure constancy of said contour, the magnetic coupling and resistance introducing effect by movement of said body.

2,283,927

CONTROL APPARATUS

Wilfred H. Howe, Sharon, Mass., assignor to The Foxboro Company, Foxboro, Mass., a corporation of Massachusetts

Application November 12, 1938, Serial No. 240,002
25 Claims. (Cl. 236—84)



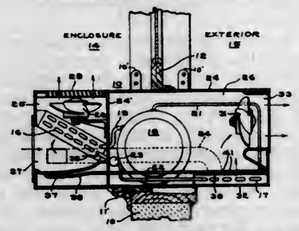
1. A control instrument responsive to the value of a condition, comprising, in combination, condition responsive means including an electrical circuit having a frequency variable proportionally with the value of the condition, follow-up means including an electrical circuit having a controlled variable frequency, electro-responsive means for establishing a control electrical characteristic responsive to the relationship existing between the frequencies of said condition responsive means and said follow-up means, motor means responsive to said control characteristic for varying the frequency of said follow-up means to maintain it in a desired relationship with respect to the frequency of said condition responsive means, and control means operated in proportional response to the frequency of said follow-up means.

2,283,928

AIR CONDITIONING APPARATUS

Leroy G. Huggins, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application April 23, 1936, Serial No. 75,919
3 Claims. (Cl. 62—140)



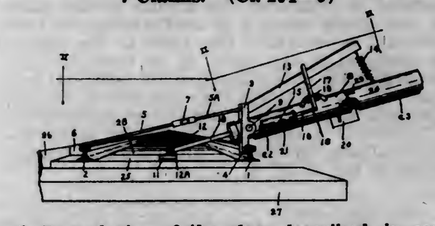
1. An air conditioner unit suitable for conditioning the air of a room comprising two compartments, a refrigeration apparatus having a heat absorbing portion, a heat dissipating portion, and a motor-compressor, the heat absorbing portion being in one compartment, and the heat dissipating portion and the motor-compressor being in the other compartment, said unit being adapted to be held in such position with respect to an opening in the wall of an enclosure that the heat absorbing portion is on the inside of the wall, the heat dissipating portion is on the outside of the wall, and the motor-compressor is disposed substantially in the plane of said wall intermediate said heat-absorbing and heat-dissipating portions, and means for forcibly circulating air from the enclosure over said heat absorbing portion to condition the air, said unit being provided with means for engaging an edge of said opening for holding said unit in said position.

2,283,929

HYDRAULIC TIE PULLER

Harry B. Hughes, Bandon, Oreg.

Application January 17, 1940, Serial No. 314,350
7 Claims. (Cl. 104—9)



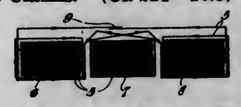
1. In a device of the class described, in combination with a railway track, a piston and a cylinder with the piston being reciprocably mounted in the cylinder, a pump for supplying a fluid under pressure to the cylinder, an ejecting head carried by the piston rod for engaging a tie on its top surface, a rail-engaging frame to support the cylinder, a tensioning member secured at one end to said frame and having at its other end a bridging board to engage the ends of ties adjacent the tie to be removed, said cylinder being hingedly secured to the rail-engaging frame.

2,283,930

MEANS FOR AND METHOD OF ASSEMBLING METALLIC ARTICLES AND THE LIKE FOR SHIPMENT

Don F. Hedges, Gary, Ind.

Application May 13, 1941, Serial No. 393,296
3 Claims. (Cl. 214—10.5)



3. The method of preparing longitudinally extending metallic material of the class described for shipment which comprises placing the metallic material in at least three separate bundles arranged in a row in side by side relationship upon the transportation vehicle, arranging means between each of said bundles for spacing the same from each other, and arranging a metallic binding means around all of said bundles adjacent each end thereof, said binding means being first disposed at least a turn around the intermediate bundle, directing the free ends of said binding means at least a turn around the respective outermost bundles, and finally securely fastening the opposed ends of the binding means together above said bundles whereby the bundles are firmly bound together and are adapted to be held securely in position so as to prevent movement of the bundles relative to each other and to the vehicle during transit.

2,283,931

RUST PREVENTIVE COMPOUND

Ernest R. Irwin, Dayton, Ohio

No Drawing. Application March 21, 1940, Serial No. 325,180
12 Claims. (Cl. 106—14)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An anti-corrosion coating composition for

metals such as internal combustion engine parts and the like, and adapted to be applied in the presence of any mineral oil adhering to the surface of the metal to be protected, and containing free acids resulting from the combustion of fuel or decomposition of lubricants; comprising a vehicle of castor oil so treated by heat as to render it miscible with mineral oil, and triethanolamine in an amount slightly in excess of the amount required to neutralize the acidity of the castor oil, the excess amount of triethanolamine being sufficient to neutralize free acids in the mineral oil adhering to the metal to be protected, said excess amount of triethanolamine being not more than 10% by weight of the composition and said composition being such that—when reduced with a thinner to a viscosity suitable for spraying—the resultant liquid will remain fluid at temperatures as low as 20° F.

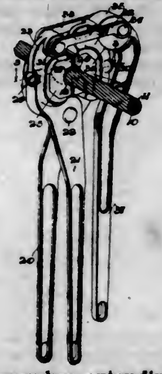
2,283,932
BLOWPIPE AND ROD-FEEDING MECHANISM THEREFOR
Everett P. Jones, Elizabeth, N. J., assignor to Oxweld Acetylene Company, a corporation of West Virginia
Application December 21, 1940, Serial No. 371,067
16 Claims. (Cl. 266—23)



1. A blowpipe comprising a straight handle portion; a nozzle; tube means connecting said handle portion and said nozzle in such manner that the discharge end of said nozzle is substantially aligned with the axial projection of said handle portion; and a guide secured directly against said handle and adapted to support a straight wire member along and immediately adjacent to the periphery of said handle portion in position to extend directly across and adjacent to said discharge end.

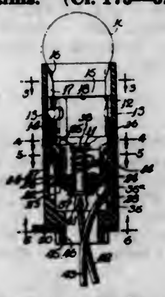
2,283,933
APPARATUS FOR APPLYING CLIPS
Kennie M. Jones and William H. De Baugh, Baltimore, Md., assignors to Line Material Company, Milwaukee, Wis., a corporation of Delaware
Application July 3, 1940, Serial No. 343,884
13 Claims. (Cl. 140—55)

1. A tool for applying clips to conductors which includes a pair of handle members pivoted together and provided with opposed jaws, one of said jaws being provided with a cam seat, and means for tightening said jaws after they have been moved into initial gripping position by said first-named handle members including a cam for cooperation with said seat, means pivotally mounting said cam on one of said jaws and a



third handle member extending from said cam and movable toward and away from said first-named handle members.

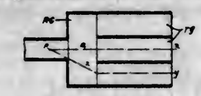
2,283,934
LAMP SOCKET
James P. Jorgensen, Beloit, Wis., assignor to Jorgensen Engineering, Inc., Beloit, Wis., a corporation of Wisconsin
Application April 28, 1939, Serial No. 270,544
14 Claims. (Cl. 173—328)



12. In a lamp socket, a U-shaped metal piece having a closed end and upstanding parallel arms with their free ends offset outwardly relative to their connected ends, formations on said free ends adapted for interengagement with the base of a lamp bulb, a lug rigid with said piece and disposed alongside the connected ends of the piece, an insulated contact supported on said closed end for engagement with the end of a lamp bulb supported by said piece, and a tube of insulation surrounding said piece and having means interengageable with said lug to hold the piece and tube against turning relative to each other.

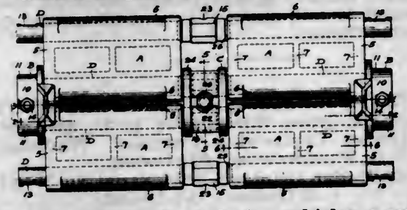
2,283,935
TRANSMISSION, RADIATION, AND RECEPTION OF ELECTROMAGNETIC WAVES
Archie P. King, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 29, 1938, Serial No. 204,960
7 Claims. (Cl. 250—11)

2. In a system for the directive radiation or reception of high frequency electromagnetic waves, the method which comprises separately and concurrently guiding adjacent portions of the wave front of said electromagnetic waves, systematically altering relative to each other the velocities of propagation of the respective wave portions as so guided, whereby the shape of said



wave front is modified, and then projecting all of said guided wave portions into coalescing relation to form a unitary wave.

2,283,936
TRACK FOR TRACK-LAYING VEHICLES
Harry A. Knox, Washington, D. C.
Application December 9, 1940, Serial No. 369,272
9 Claims. (Cl. 305—10)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

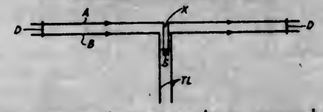


1. In a track for track-laying vehicles, a series of laterally spaced pairs of shoes, each shoe comprising a body joining a pair of bearings extending transversely of the track, a circular cross sectioned link pin extending through the bearings of a pair of laterally spaced shoes and projecting therefrom, each link pin having a central portion having a non-circular cross sectional area which is larger than the circular cross sectional area, said central portion having a groove in one edge and having edges cut away to provide a diameter less than the internal diameter of the bearings, resilient bushings fast on each link pin and engaging the bearings, a centrally disposed link for connecting adjacent link pins of adjacent shoes, each link consisting of a pair of plates for engaging the central portion of the link pin, a bolt on one plate interposed between link pins and fitting in the grooves thereof, means for clamping the bolt to the other plate, said last mentioned plate having wheel guides and a surface adapted to be engaged by a track propelling sprocket, links connecting the projecting ends of adjacent link pins of adjacent shoes, said last mentioned link having a surface adapted to be engaged by a track propelling sprocket, and a wheel guide on the last mentioned link.

2,283,937
PREPARATION OF PAVING COMPOSITIONS
Charles Mack, Sarnia, Ontario, Canada, assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application June 4, 1937, Serial No. 146,371
12 Claims. (Cl. 106—269)

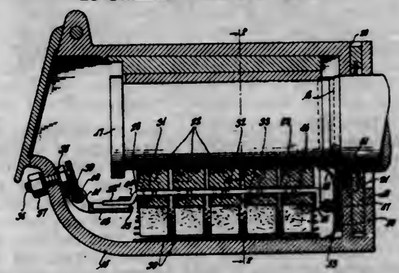
1. A paving composition comprising a mineral aggregate coated with a water-soluble salt selected from the group consisting of silver, copper, aluminum and iron groups and bonded with an asphalt containing a wetting agent selected from the group consisting of oxidized paraffin wax bottoms, tar still pitch, degras, calcium naphthenate, zinc naphthenate, and lead naphthenate.

2,283,938
ANTENNA SYSTEM
Lewis J. McKesson, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application January 20, 1940, Serial No. 314,743
14 Claims. (Cl. 250—33)



1. A bipolar antenna system comprising in combination two wire elements directly connected together at their respective ends, said wire elements being rectilinear, substantially parallel to each other and located close to each other compared to the shortest wavelength employed, one of said elements being adapted to be fed with current in its middle part, and an impedance connected in series with the middle part of the other of said wire elements, said impedance being calculated and adjusted to have a value to allow currents to flow in the bipolar elements with a desired phase relationship, said antenna system being characterized by its substantially constant radiation characteristics over a wide range of wavelengths.

2,283,939
JOURNAL LUBRICATOR
Rudolph W. Miller, Winona, Minn.
Application October 19, 1939, Serial No. 300,254
13 Claims. (Cl. 308—88)

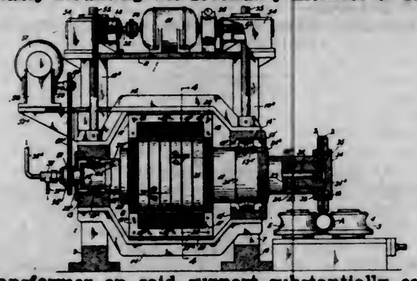


1. A journal lubricator and oil retainer comprising, in combination: journal contacting absorbent pad means comprising a plurality of elements each extending perpendicular to the axis of the journal, spring means to press said pad means to the journal surface; non-circular rod means penetrating said pad means, preserving the vertical, lateral and circumferential alignment of said elements; means engaging said rod means at its forward portion to prevent lateral and twisting movements thereof; twist preventing means so engaged by the rear portion of said rod means as to permit vertical movement of said rod; unrestricted wick means projecting downwardly from said pad means to dip into a pool of oil in the journal box and a flexible flap member carried by said twist preventing means to prevent splash of said oil through the rear of the journal box.

2,283,940
WELDING APPARATUS
Howard I. Morris, Lakewood, Ohio, assignor of one-third to Carl M. Yoder and one-third to Harvey O. Yoder, both of Lakewood, Ohio
Application September 5, 1939, Serial No. 293,445
10 Claims. (Cl. 219—6)

1. In welding apparatus, the combination of a

stationary support, a single phase transformer, the primary member of said transformer being fixedly mounted on said support, means for rotatably mounting the secondary member of said

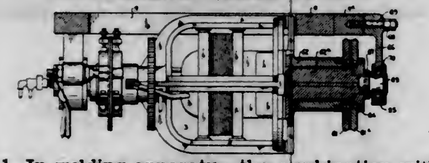


transformer on said support substantially centrally of the primary member, and disc electrodes fixedly related to said secondary member and electrically connected to the winding of said secondary member and rotatable therewith.

2,283,941

WELDING APPARATUS

Howard I. Morris, Lakewood, Ohio, assignor of one-third to Carl M. Yoder and one-third to Harvey O. Yoder, both of Lakewood, Ohio
Application March 1, 1940, Serial No. 321,745
10 Claims. (Cl. 219—6)



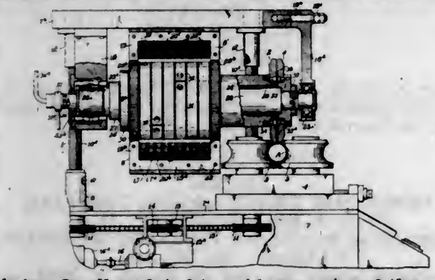
1. In welding apparatus, the combination with a support, of a mounting comprising a sectional member the sections of which are insulated from each other, a transformer carried by one section of said member, the remaining sections of said member consisting of conductor devices each being rigidly attached to said first section and electrically connected to one terminal of the secondary winding of said transformer, an electrode connected to each of said devices and movable therewith, spaced bearings on said support respectively engaging said first-named section and said conductor devices for rotatably supporting said sectional member, and electrical connections for the primary winding of said transformer.

2,283,942

WELDING APPARATUS

Howard I. Morris, Lakewood, Ohio, assignor of one-third to Carl M. Yoder and one-third to Harvey O. Yoder, both of Lakewood, Ohio
Application November 22, 1940, Serial No. 366,521
1 Claim. (Cl. 219—6)

In welding apparatus, the combination with a base, of a support mounted on and over said base in spaced relation thereto, spaced hangers depending from said support and each provided with a bearing, a conductor rotatably mounted at its opposite ends in said bearings, a separate conductor fixedly related to and insulated from said first mentioned conductor, electrodes electrically connected to said conductors, respectively, and rotatable therewith, said separate conductor and electrodes being entirely disposed between said bearings, the hanger for the bearing adjacent to said electrodes being removably mounted on said support, and a single phase transformer entirely disposed between said bearings, the primary winding of said transformer



being fixedly related to said support and the secondary winding of said transformer being fixedly related to said conductors and electrically connected thereto.

2,283,943

PLATE TIMBER CONNECTOR AND JOINT

James E. Myer, Washington, D. C., assignor to Timber Engineering Company, Washington, D. C., a corporation of Delaware
Application October 2, 1939, Serial No. 297,617
4 Claims. (Cl. 20—92)

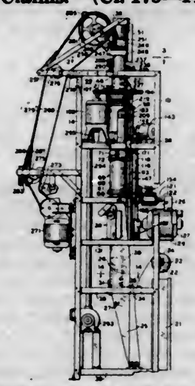


1. A timber connector comprising in combination: a plate member having a plurality of bolt holes; an arcuate flange projecting in one direction from a surface of said plate and substantially concentric with the axis of one of said bolt holes in spaced relation thereto, said plate member having a flange projecting from and coextensive with an edge thereof, said edge being one of those parallel with the axis of said bolt holes.

2,283,944

APPARATUS FOR FACSIMILE TELEGRAPHY

Robert D. Parrott, West New York, George L. Erickson, Hasbrouck Heights, and Raleigh J. Wise, Dunellen, N. J., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application August 28, 1937, Serial No. 161,358
26 Claims. (Cl. 178—14)



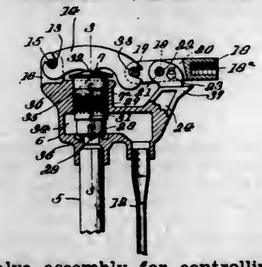
1. In a facsimile machine, the combination of

a flexible strip, a recorder for marking said strip, means to advance said strip for cooperation with said recorder, means to sever portions of said strip, means spaced at appropriate intervals along said strip for causing operation of said severing means, and mechanism for coordinating and timing the operation of said recorder, said strip advancing means and said severing means.

2,283,945

DISCHARGE VALVE

Walker F. Peterson and Albert U. Walter, Baltimore, Md., assignors to Quiet Flow Devices, Inc., Baltimore, Md., a corporation of Maryland
Application August 11, 1937, Serial No. 158,622
6 Claims. (Cl. 137—104)



6. A valve assembly for controlling the flow of water, comprising a valve body providing a valve seat, a reciprocable valve closure member coacting with said seat, a discharge chamber for receiving water which passes said closure member, means for closing the closure member against the seat, a flow-retarding device for restricting the flow of water from said discharge chamber and in which at the full rate of flow the water moves with a momentum effective to produce chatter of the member upon the seat during the closing thereof by said means, and means providing an air chamber separate from the discharge chamber and connected therewith by a restricted orifice near the bottom of the air chamber and thereby constructed and arranged to be effective for eliminating chatter of said valve closure member upon said seat during the operation of said closing means.

2,283,946

PROCESS FOR MANUFACTURE OF SHOES

Earle C. Pitman, Red Bank N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application August 1, 1940, Serial No. 349,088
1 Claim. (Cl. 12—142)

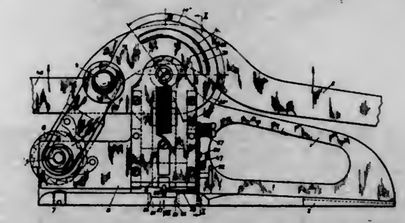


The method of making cemented shoes which comprises assembling the parts of the shoe on a last with a cement between the parts to be united, placing the said assembled parts of the shoe within an air-tight flexible bag while the cement is in a tacky condition, inducing a vacuum within the bag to cause the said bag to hug the parts to be joined, and maintaining the vacuum until the cement has set sufficiently to prevent displacement of the parts.

2,283,947

DEVICE FOR THE PRODUCTION OF METAL BAND JOINTS

Adolf Praemassing, Cologne-Merheim, Germany
Application March 18, 1936, Serial No. 69,574. Renewed March 18, 1940. In Germany March 20, 1935
13 Claims. (Cl. 81—9.1)

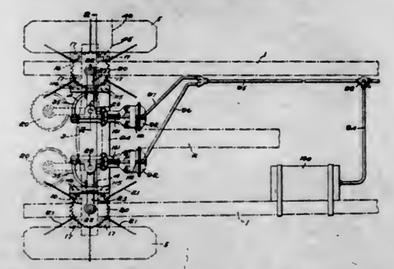


1. In a device for making metal band joints by wrapping a metal strip around the overlapping ends of a metal band, a casing having a slide member reciprocable therein, means for cutting a metal strip arranged transversely of the overlapping ends of said band to serve as a sleeve band, said means comprising a tool lever having one end arranged adjacent the band ends, said end of the tool lever having a cutting edge extending parallel with respect to the band ends and transverse with respect to the sleeve band, another tool lever, said levers being pivotally mounted on said slide member to oscillate in a plane perpendicular to the plane of the band ends, means for oscillating said levers, and means for moving the slide member in a direction perpendicular to the plane of the band ends.

2,283,948

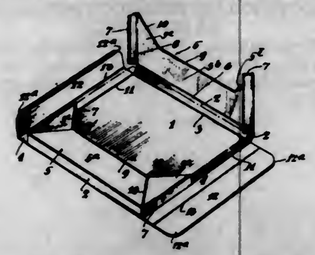
AUTOMOBILE TRACTION DEVICE

Herbert N. Ridgway, Winthrop, Mass.
Application April 9, 1941, Serial No. 387,647
14 Claims. (Cl. 188—4)



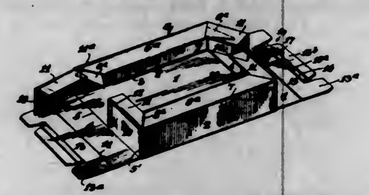
1. Traction apparatus of the kind described for motor vehicles, comprising a pair of movable carriers, each carrier being rotatably mounted on one end of a movable arm, said arm having its opposite end secured to a universal joint, each carrier having a fluted rim to engage the tire of the vehicle wheel in contact with which said carrier is adapted to be moved, and a plurality of traction chains attached to said carrier and adapted to be thrown by centrifugal force under said tire upon contact of the rim of the carrier with said tire during rotation of the tire.

2,283,949
FOLDER
William A. Ringler, Wayne, Pa., assignor to National Folding Box Company, New Haven, Conn., a corporation of New Jersey
Application August 25, 1939, Serial No. 291,799
7 Claims. (Cl. 229—34)



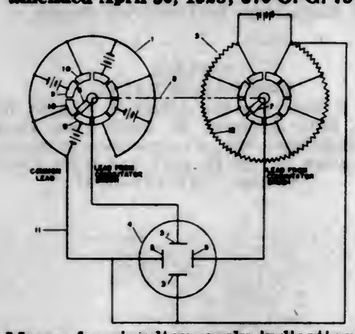
1. A merchandise package including, a folder formed from a single blank of paperboard material including a bottom wall panel upon which the merchandise is positioned, a substantially continuous inturned rim overlying the merchandise and retaining the merchandise within the folder, said rim including alternate flap sections each presenting before folding a generally rectangular-shaped section having an outer flap portion hinged to an inner flap portion, each of said outer flap portions being folded to underlie its associated inner flap portion, each of said underlying flap portions having end extensions projecting beyond the end edges of the associated overlying flap portion, and intermediate flap sections having the end portions thereof supported by the adjacent end extensions and inserted between the overlying and underlying flap portions of the adjacent alternate sections.

2,283,950
MERCHANDISE PACKAGE
William A. Ringler, Wayne, Pa., assignor to National Folding Box Company, New Haven, Conn., a corporation of New Jersey
Application August 25, 1939, Serial No. 291,801
15 Claims. (Cl. 229—34)



1. A merchandising box formed from a single blank of paperboard material including, a bottom wall panel, oppositely arranged side wall panels hinged to said bottom wall panel, oppositely arranged end wall panels hinged to said bottom wall panel, a rim section hinged to each of said side wall panels comprising hingedly connected overlying and underlying rim portions, an inturned end tab hinged to each end of each side wall panel, an inturned rim flap hinged to each of said tabs, each of said rim flaps having a corner portion thereof inserted between adjacent overlying and underlying rim portions, a rim section hinged to each of said end wall panels folded over adjacent aligned flaps, and interengaging means comprising parts of said rim sections for retaining said box in fixed assembled position.

2,283,951
COMMUTATOR OSCILLOGRAPH DEVICE
Kenneth C. Ripley, Washington, D. C.
Application June 28, 1939, Serial No. 281,660
6 Claims. (Cl. 171—95)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



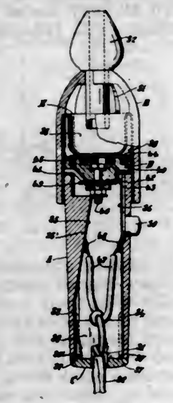
1. Means for simultaneously indicating a plurality of direct-current voltages on the viewing screen of a cathode-ray oscillograph, comprising a first commutator having a plurality of live segments each of which is connected to a source of one of said voltages, and a plurality of neutral segments, one of which is located between each pair of said live segments, a second commutator having a plurality of segments, the number of which is a whole number of times the number of those in said first commutator, a resistor, the segments of said second commutator being connected in order at spaced points along said resistor, a pair of brushes, each arranged to sweep the segments of one of said commutators, means connecting said brushes in such a manner that they must move in unison, means connecting the brush of said first commutator and the sources of voltages to be indicated across the vertical deflection plates of said oscillograph, and means connecting the brush of said second commutator and a terminal of said resistor across the horizontal deflection plates of said oscillograph.

2,283,952
ELECTRIC VAPORIZER
Joseph Robinson, New York, N. Y.
Application March 27, 1939, Serial No. 264,358
3 Claims. (Cl. 128—192)

1. An electric vaporizer comprising in combination, an elongated hollow base provided with an opening at its top and bottom and having a seat adjacent to each said opening, a heater having a horizontally flat upper face mounted on the seat at the top of said base and covering the opening in that end of the base, a plug extending into the opening in the bottom of the base and bearing against the seat formed at that end of the base, said seat serving as a stop for said plug, a terminal member inside said base and extending upwardly from said plug into engagement with said heater, interlocking means at opposite ends of said terminal for anchoring the terminal to said plug and to said base whereby said plug, said base and said terminal are maintained in the assembled position, a container seated on said heater to contain the substance to be vaporized, and an electric cord extending into said base and connected therewith.

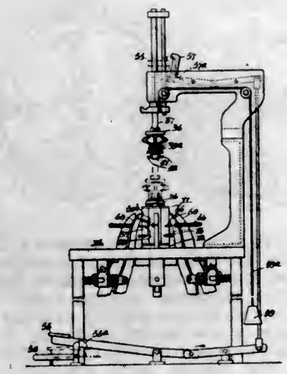
3. A cover for covering and insulating the container of an electric vaporizer such as herein described comprising a body of insulating material which embraces said container, said cover being

normally open at both ends and having a bridge above said container which spans the opening in the upper end of the cover, said bridge being formed integral with said cover and joined to opposite walls thereof, the opening in the upper



end of said cover serving as a window through which the substance to be vaporized is passed into said container and through which air currents enter said container on inhalation, and a nasal device mounted on said bridge above said container for directing the vapors.

2,283,953
SHOEMAKING MACHINERY
John Milton Rohrer, Orwigsburg, Pa.
Application November 7, 1939, Serial No. 303,199
24 Claims. (Cl. 12—7)



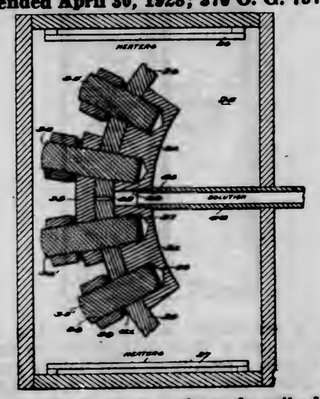
1. In apparatus of the character described, the combination of a sectional mold for the reception of an upper on a last, means for clamping the mold sections in associated relation after the last and upper have been placed in the same, supports for the last within the mold, and displaceable guiding members projecting above the mold for guiding the toe portion of the upper into position with respect to the mold sections.

2,283,954
APPARATUS FOR TESTING THE EMBRITTLEMENT CRACKING CHARACTERISTICS OF SOLUTIONS
Wilburn C. Schroeder, Hyattsville, and Abraham A. Berk, Berwyn, Md., assignors to the Government of the United States of America, as represented by the Secretary of the Interior and his successors in office
Application October 12, 1938, Serial No. 234,722
5 Claims. (Cl. 72—51)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. Apparatus for testing the embrittlement cracking characteristics of a solution, comprising a body having a passage therein, means for supporting and maintaining under stress a test specimen arranged within and intermediate the ends of said passage, means for supplying solution to be tested to one end of said passage, and means for evaporating solution from the other end of said passage to concentrate the solution in contact with the specimen.

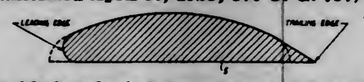
2,283,955
MEANS FOR AND METHOD OF TESTING EMBRITTLEMENT CRACKING CHARACTERISTICS OF SOLUTIONS
Wilburn C. Schroeder, College Park, Md., assignor to Government of United States of America as represented by the Secretary of the Interior and his successors in office
Application September 12, 1940, Serial No. 356,474
12 Claims. (Cl. 73—51)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. The method of the class described which comprises assembling plates to form a seam, securing the plates in their assembled relation by means of adjustable and readily detachable attaching elements, such as bolts and nuts as distinguished from permanent attaching elements

such as rivets, subjecting one side of the seam to a body of solution under pressure which may produce embrittlement cracking, subjecting the other side of the seam to a fluid pressure below that of the body of solution, adjusting one or more of said attaching elements to provide a slow leakage from the body of solution through the seam, maintaining these conditions for a test period, then separating the seam from the body of solution and loosening the attaching elements to permit inspection of the parts of said seam.

2,283,956
CAVITATION RETARDING BLADE AND A METHOD OF DELAYING THE OCCURRENCE OF CAVITATION TO INCREASED BLADE VELOCITIES
Lybrand P. Smith, United States Navy
Application June 21, 1937, Serial No. 149,543
6 Claims. (Cl. 170—159)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

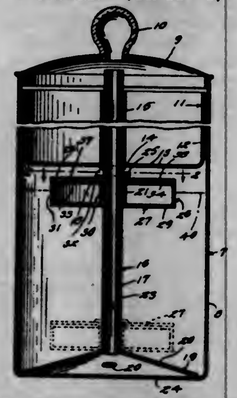


1. A blade adapted for movement in a liquid fluid medium, said blade having a back which in any developed section of the blade lies at least for its major portion substantially along a curve represented by the differential equation

$$\frac{\frac{d^2y}{dx^2}}{\left[1+\left(\frac{dy}{dx}\right)^2\right]^3}=\text{constant}$$

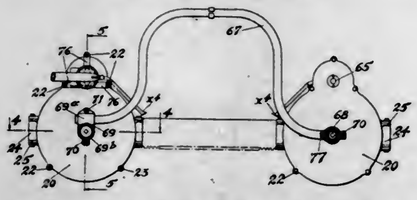
whereby to provide a back which delays the occurrence of burbling cavitation.

2,283,957
COFFEE PERCOLATOR
Benjamin J. Steinmetz, Cedarhurst, N. Y.
Application April 1, 1940, Serial No. 327,339
8 Claims. (Cl. 53—3)



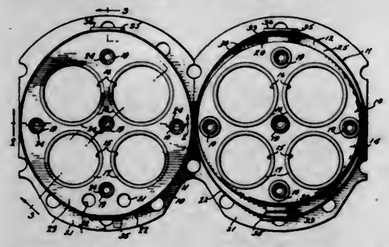
1. In a percolator, a holder for the material through which a fluid is adapted to percolate, means disposed axially of said holder for directing the fluid onto the material, an initially buoyant and subsequently gravity lowering fluid receiving structure of container-like form disposed in the downward path of the fluid for receiving a predetermined portion of the latter to lower it, and means operatively connecting said structure and said directing means for effecting closing of said directing means upon lowering of said structure thereby discontinuing the percolating operation.

2,283,958
PORTABLE SAWING APPARATUS
Edward De Voe Tompkins, New York, N. Y.
Application April 21, 1937, Serial No. 138,093
12 Claims. (Cl. 143—68)



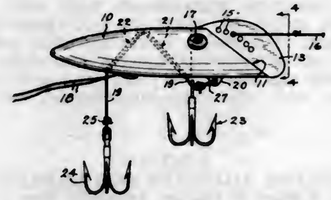
1. In a portable sawing apparatus, the combination, with two saw-blades arranged to reciprocate longitudinally with their backs in contact with each other, and to cut equally in each direction, of four sets of identical epicycloidal gearings, each arranged to convert rotary motion into reciprocating motion, each being connected to the respective end of its respective saw-blade, two sets of said gearings being arranged near one end of the sawing apparatus opposite each other with the saw blades between them and the other two sets near the other end of the sawing apparatus opposite each other with the saw-blades between them, and a common drive mechanism for each two sets of gearings.

2,283,959
INTERNAL COMBUSTION ENGINE
Jesse G. Vincent, Grosse Pointe, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application September 25, 1940, Serial No. 358,261
10 Claims. (Cl. 123—173)



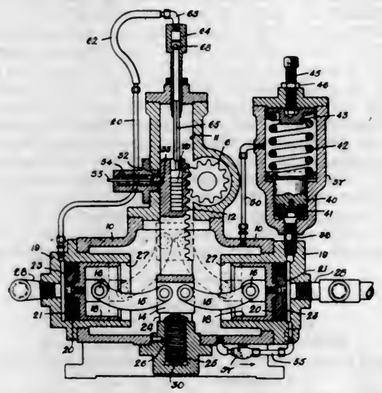
4. A cylinder structure comprising a cylindrical barrel having an integral ported head end with bosses projecting axially therefrom, a plate fixed on said bosses in spaced relation with the head end of the barrel and projecting radially beyond the periphery of the barrel, a flange extending from and around said barrel, the peripheries of said plate and flange being similarly out-of-round in outline and in alignment axially of the barrel, a preformed sheet metal jacket conforming in shape to the peripheral outlines of said flange and plate, said jacket telescoping the barrel and being secured in leak-proof relation to the peripheries of the flange and the plate, said plate having ports therethrough aligning with the barrel ports and cooling liquid inlet and outlet openings adjacent the periphery and in the longer dimensional portion between the jacket and the ports.

2,283,960
FISH LURE
William J. Wade, Seattle, Wash.
Application January 3, 1940, Serial No. 312,244
7 Claims. (Cl. 43—46)



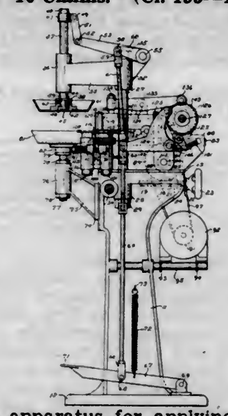
1. A fish lure comprising a body member of substantially circular cross section having an inclined plane flat front end portion of substantially elliptical outline disposed in a plane that cuts the body member obliquely from one side to an opposite side thereof; and a plate rigid with said body member coincident with the major axis of said plane flat front end portion and protruding perpendicularly from said plane flat front end portion a substantial distance, said plate having a plurality of holes therein adjacent the body member for connection of a trolling line therewith at different selected locations, said plate having a substantial portion thereof positioned forward of said holes providing water reactance surface forward of the point of connection of the trolling line for controlling the movement of said lure when it is drawn through the water by said line.

2,283,961
PRESSURE BOOSTER UNIT
Larkin R. Williamson, Cincinnati, Ohio, assignor to E. W. Bliss Company, Brooklyn, N. Y., a corporation of Delaware
Application June 9, 1938, Serial No. 212,721
2 Claims. (Cl. 60—54.6)



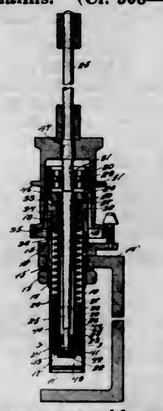
1. A toggle fluid pressure booster unit comprising a case having a cylinder therein, a piston in said cylinder, a member shiftable transversely to the axis of said cylinder, a link connecting said member and said piston, a dash-pot cushion abutment positioned to be engaged by said member and lying to one side of the cylinder axis and means to shift said member across said cylinder axis and against said abutment whereby the toggle is locked against further movement in the direction towards said abutment.

2,283,962
RIMMING MACHINE
Allen B. Wilson, Evanston, and Edwin V. Swangren, Maywood, Ill., assignors to Kimberly Stuart, Menasha, Wis.
Application September 1, 1938, Serial No. 228,028
10 Claims. (Cl. 153—1)



5. In an apparatus for applying a stiffening rim to the peripheral edge of a member, a pair of bending rolls mounted for rotation about spaced substantially parallel axes and adapted to be moved relatively toward and away from each other; a mandrel mounted for rotation adjacent said rolls and adapted to support said member with its peripheral edge adjacent said rolls; a rotatable clamping element adapted to frictionally grip said member between it and said mandrel; and means for moving said rolls toward each other and also substantially simultaneously moving said clamping element toward said mandrel.

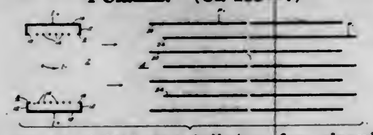
2,283,963
SPINDLE
Albert E. Winslow, New London, Conn., assignor, by mesne assignments, to Atwood Machine Company, Stonington, Conn., a corporation of Connecticut
Application May 11, 1940, Serial No. 334,667
11 Claims. (Cl. 308—154)



3. In a spindle, an assembly unit comprising a bolster having a bulbous surface, a socket having a seat for said surface threaded for attachment to a casing, resilient means for urging said bulbous surface and seat together, and a sleeve car-

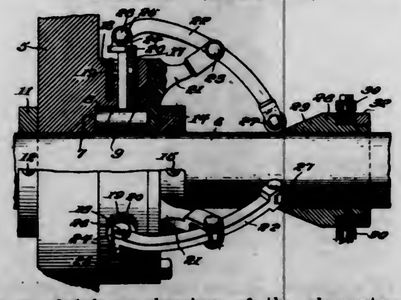
ried by said bolster at the lower end thereof and free of the action of said resilient means and movable for providing a cushioning.

2,283,964
ELECTRICAL DUST PRECIPITATOR
Peter H. Wyckoff, Avalon, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 29, 1940, Serial No. 321,464
4 Claims. (Cl. 183—7)



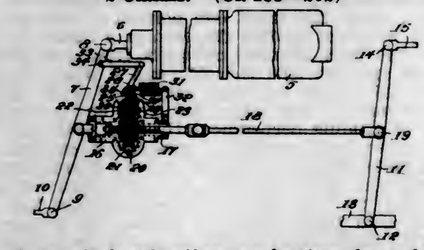
1. An electrical precipitator for cleaning a flowing particle-laden gas, comprising a first zone; a second zone closely spaced from the first zone in the direction of gas-flow; ionizing-electrode-means substantially centrally disposed in said first zone, and extending transversely with respect to the gas-flow, for charging substantially all of the particles carried by the gas; precipitating-electrode-means disposed in said first zone in laterally spaced relation to said ionizing-electrode-means, considered with reference to the direction of gas-flow, said precipitating-electrode-means comprising means whereby charged particles of certain types including substantially all of the particles of relatively higher conductivity are selectively precipitated and continually removed from the boundary of the gas-stream in said first zone; the particle-charging effect of the ionizing-electrode means being sufficiently strong, the extent of the precipitating-electrode-means in the direction of gas-flow being sufficiently limited, and the velocity of the gas-flow being sufficiently high, so that other charged particles remain in charged condition in the gas as it leaves the first zone and enters the second zone; and a plurality of relatively closely spaced precipitating-electrode-means of alternately opposite potentials substantially filling said second zone for removing said remaining particles with a much smaller mean transverse-flow path than in the case of the particles precipitated in said first zone.

2,283,965
CLUTCH
Joseph Brancolino, Riverside, Conn.
Application November 22, 1940, Serial No. 366,765
3 Claims. (Cl. 192—47)



1. A clutch mechanism of the character described comprising, a driving member and a driven member, said driving member having one face formed with a series of grooves, rollers mounted in said grooves having wedging contact with said driven member for transmitting power thereto from said driving member, means comprising radially moving pins extending radially of said driving member for moving said rollers out of wedging engagement with said driven member, means for operating said radially movable pins, said means including arms pivotally carried by said driving member and attached to said pins, and means for actuating said arms to depress said pins into engagement with said rollers.

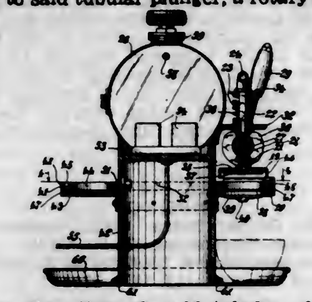
2,283,966
SLACK ADJUSTER FOR BRAKES
Luther F. Brown, Amarillo, Tex.
Application March 24, 1941, Serial No. 385,014
2 Claims. (Cl. 188—202)



1. In slack adjusting mechanism for vehicle brakes, a pair of spaced brake actuating levers, operating means pivotally connected with one of the said levers, a housing pivotally connected with the intermediate portion of one of the levers, a tie rod pivotally connected to the intermediate portion of the complementary lever having a threaded end portion telescopically engaging the said housing, a worm gear rotatably mounted in the housing having an interiorly threaded bore engaging the threaded portion of the tie rod, a worm journalled in the housing and meshing with the worm gear, the said worm having a shaft extension, a ratchet wheel fixed on the shaft extension of the worm, a pair of arms pivotally connected to the said shaft extension and extending radially therefrom at each side of the ratchet wheel, a pawl pivotally mounted between the said arms in engagement with the ratchet wheel, a spring connected to the said arms for yieldingly holding the pawl in a predetermined position, a link pivotally connected to one of the said brake levers, and a bar pivotally connected to the outer end of the link and having knee joint connection with the said radial arms operative to move the pawl only upon excessive movement of the said brake lever for slack takeup of the tie rod through the action of the spring and gear mechanism.

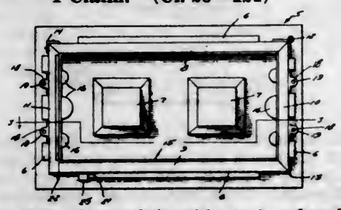
2,283,967
BEVERAGE APPARATUS
William F. Brown, Flushing, N. Y.
Application October 10, 1940, Serial No. 360,570
9 Claims. (Cl. 53—3)

1. Beverage infusion apparatus, comprising in combination, a supporting column, a boiler mounted on the top of said column, a carrier ring rotatably confined on the column below said boiler, said ring having openings extending therethrough, beverage cartridges of a size and shape to fit said openings and having perforate upper and lower walls and imperforate rim portions, a perforate support for said cartridges at one point in the rotary movement of said carrier ring, a vertically operating tubular plunger above said perforate support and engageable over the top of a cartridge in the carrier over said perforate support, liquid supply connections from said boiler to said tubular plunger, a rotary valve con-



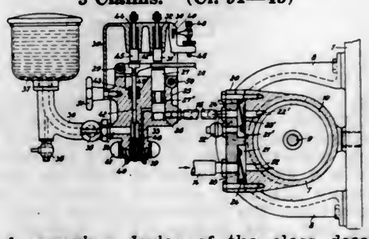
trolling flow through said tubular plunger and cam means operable by said rotary valve to control up and down movement of said plunger.

2,283,968
MOLD
Fredrick H. Bunch, Ottumwa, Iowa
Application April 16, 1941, Serial No. 388,845
1 Claim. (Cl. 25—121)



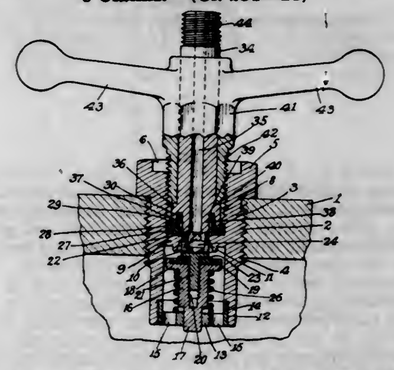
In a mold, a base plate, side and end walls removably mounted on said base plate, cleats on said base plate to engage with said walls for centering of the walls on said base plate, vertical tubular guides carried by certain of said walls and extending throughout the height of the walls, and guide rods carried by the base plate and extending freely into the guides, said rods being coextensive with the guides.

2,283,969
DEVICE FOR SPRAYING PRINTED SHEETS
Artur Büttner, Heidelberg, Germany, assignor to Schnellpressenfabrik Aktiengesellschaft Heidelberg, Heidelberg, Germany
Application February 27, 1939, Serial No. 258,838
In Germany March 3, 1938
5 Claims. (Cl. 91—45)



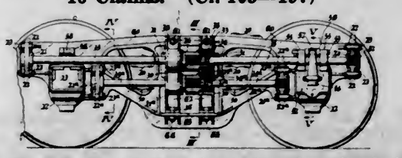
4. A spraying device of the class described, comprising in combination, means forming two chambers, a reservoir for a spraying liquid connected to one of said chambers, a spraying nozzle connected to the same chamber, a nozzle needle for closing said spraying nozzle, an air nozzle surrounding said spraying nozzle, a piston movable in the second chamber, said second chamber being separate from said nozzle needle, an air duct connecting said second chamber with said air nozzle and having an admission port in the path of said piston, a lever for lifting said nozzle needle and actuated by said piston, spring means for holding said piston in a position for closing said air admission port, said spring means also acting on said lever to hold said nozzle needle valve closed, and a compressed air conduit connected to the second chamber.

2,283,970
VALVE
William C. Buttner, Wilmetka, Ill., assignor to The Bastian-Blessing Company, Chicago, Ill., a corporation of Illinois
Application November 16, 1939, Serial No. 304,639
8 Claims. (Cl. 284—14)



1. A coupling comprising a body having a valve seat therein defining a valve port, a valve member urged into contact with the seat to close the port, a nipple received in the body with a rectilineal movement to open the valve, said nipple having a passageway therethrough, means intermediate the nipple and the valve by which rectilineal force is transmitted from the nipple to the valve including a portion having lateral openings therethrough interconnecting said port and the passageway in the nipple, an axially directed annular flange upon the nipple having an area thereon defining a surface of revolution radially spaced from said openings, a resilient sealing member having a portion spaced from the nipple and engaging said surface of revolution upon the flange in sealed relationship during said rectilineal movement.

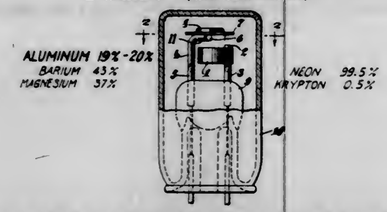
2,283,971
SPRINGING FOR RAILWAY TRUCKS
Isaac M. Chambers, Narberth, Pa.
Application February 27, 1940, Serial No. 321,009
16 Claims. (Cl. 105—197)



1. In a truck of the character described, the combination with a side frame having provision for mounting the truck axles and wheels, and also provided with lateral bearing and anchorage brackets at a substantial distance apart, and a

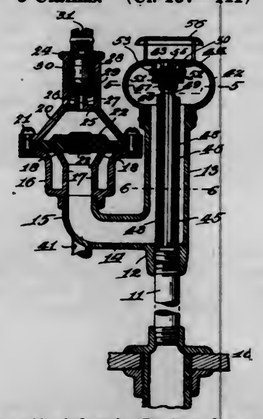
load-sustaining bolster associated with said side frame and movable up and down relative thereto, of a longitudinal elastic torsion member mounted alongside said side frame in its said bearing and anchorage brackets, and anchored by the latter against turning, and a crank attached to said torsion member adjacent the side frame bearing bracket, for connecting said torsion member to the bolster, whereby the load on the bolster is elastically transmitted to the side frame through said torsion member.

2,283,972
STARTER SWITCH
Charles Chirelstein, Newark, N. J.
Application August 9, 1941, Serial No. 406,216
1 Claim. (Cl. 200—113)



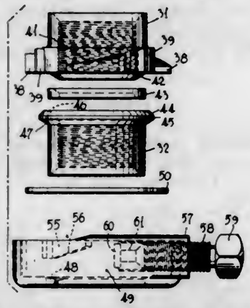
In a starter switch, wherein a bowed bimetallic switch element operates in an atmosphere of rare gases within a sealed container, an active medium sealed within said container and including barium, magnesium and aluminum, the aluminum being present in the proportion of approximately 20% and thereby enabling the use of a high proportion of barium, the latter being present in the proportion of approximately 43% and the magnesium in the proportion of approximately 37%.

2,283,973
ANTISIPHONIC FLUSH VALVE AND SILENCER
Loren E. Criss, Los Angeles, Calif.
Application February 13, 1939, Serial No. 256,087
5 Claims. (Cl. 137—111)



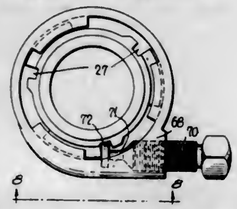
4. In an anti-siphonic flush valve and silencer, a substantially U-shaped housing, a water supply inlet in the lower end of one leg of said housing, the other leg of said housing being adapted to receive the operating parts of a flush valve, an open ended tube extending through the leg of said housing that is connected to the water supply inlet, there being an air inlet opening formed in the upper portion of the leg of the housing that is connected to the water supply inlet, a tube extending lengthwise through and arranged for sliding movement within said open ended tube, valvular means carried by the upper end of said sliding tube and adapted to alternately close the air inlet opening in the upper portion of the leg of the housing through which said tubes extend and means whereby the flow of liquid between the two tubes is restricted.

2,283,974
COUPLING
Stephen V. Dillon, Tulsa, Okla., assignor to Hanlon-Waters, Inc., Tulsa, Okla.
Application December 6, 1940, Serial No. 368,942
8 Claims. (Cl. 285—175)



1. In a bayonet joint of the type employing tapered elements for wedging coupling members into sealing position, the improvement comprising threaded operating means operatively connected to a first member of the coupling and engaging a second member of the coupling for turning one member in opposite directions relatively to the other member to either tighten or loosen the joint.

2,283,975
PIPE COUPLING
Stephen V. Dillon, Tulsa, Okla.
Application December 6, 1940, Serial No. 368,943
3 Claims. (Cl. 285—175)



1. In a structure of the type having a housing with internal tapered seat means, a cage, movable gripping elements carried by the cage and movable with the cage along said tapered seat means, and means associated with the cage to frictionally engage a rod-like member inserted into the cage, the improvement in which the housing comprises a plurality of members, one of which is annular and turnable relatively to the other about the axis of the housing, bayonet joint means connecting said members together, and threaded operating means connected to one of said members and operatively engaging the turnable member for turning the latter in opposite directions.

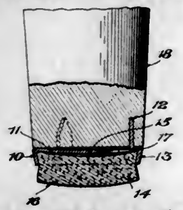
2,283,976
RECOVERY OF LOWER ALIPHATIC ACIDS FROM THEIR SALTS
Henry Dreyfus, London, and Walter Henry Groombridge, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application December 27, 1940, Serial No. 372,021. In Great Britain January 2, 1940
5 Claims. (Cl. 260—541)

1. Process for the manufacture of lower aliphatic acids from their salts, which comprises bringing carbon dioxide into contact with a solution of the salt in an aqueous ethyl alcohol of 90 to 98% concentration at an elevated temperature and under high pressure so as to form the corresponding acid salt in a concentration higher than its solubility in the alcohol at atmospheric temperature, separating the acid salt by crystallization and recovering the free acid therefrom by distillation.

2,283,977
PRODUCTION OF ALIPHATIC ACIDS
Henry Dreyfus, London, and Walter Henry Groombridge, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Original application March 22, 1939, Serial No. 263,420. Divided and this application December 7, 1940, Serial No. 369,112. In Great Britain April 1, 1938
11 Claims. (Cl. 260—541)

1. Process for the manufacture of lower fatty acids from their salts with metals selected from the group consisting of alkali metals and alkaline earth metals which comprises bringing carbon dioxide and ammonia into contact with a solution of the salt so as to form the ammonium salt of the fatty acid and heating the solution of the ammonium salt so obtained to obtain the free acid therefrom.

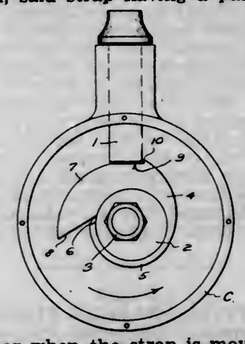
2,283,978
COASTER
Joseph F. Eberle, Westfield, Pa.
Application December 12, 1939, Serial No. 308,869
2 Claims. (Cl. 16—42)



1. A coaster comprising a stamping, a sole leather bearing insert, and a flange integral with the stamping biting into the side walls of the leather insert to retain the latter in the stamping and give it a concave upper surface spaced from the adjacent surface of the stamping to provide an air space whereby a cushioning effect is obtained.

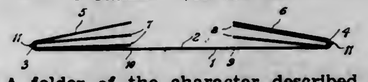
2,283,979
VALVE ACTION
Henry Edmonds, Leavenworth, Kans.
Application August 19, 1941, Serial No. 407,473
3 Claims. (Cl. 74—55)

1. A mechanical movement comprising a rotary shaft and a member to be lifted by the shaft, a cam on the shaft, a cam strap encircling the cam and moving therewith under the action of friction, said strap having a part for lifting



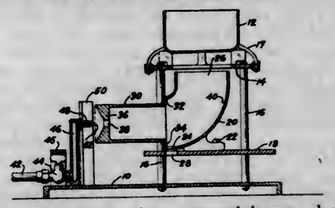
the member when the strap is moved upwardly by the cam and a stop on the strap for engaging the member for holding the strap against movement while the shaft is making one revolution.

2,283,980
FOLDER
Harold C. Fay, Floral Park, N. Y., assignor to The Public National Bank and Trust Company of New York, New York, N. Y., a national banking association
Application November 15, 1941, Serial No. 419,228
5 Claims. (Cl. 281—16)



3. A folder of the character described comprising, a base sheet having infolded flaps at its opposite ends, said flaps forming cover portions for folders, each of said folders consisting of a plurality of leaves confined between the flaps and the base sheet, said folders being disposed in spaced relationship whereby an exposed area is provided on the base sheet between the folders, said area being exposed regardless of whether the booklets or either of them are in open or closed position, the booklets and the exposed area being all of substantially the same size whereby one of the booklets may be folded to overlie the exposed portion and then the sheet may be folded to bring the booklets together into overlying relationship.

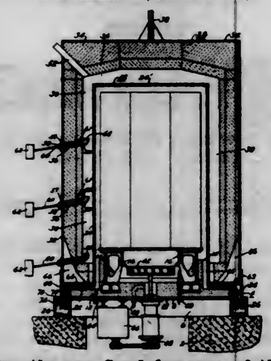
2,283,981
LEAD POT HEATER
Percy M. Forster, Berkeley, Calif.
Application January 3, 1940, Serial No. 312,190
3 Claims. (Cl. 126—240)



1. A lead pot heater comprising a base, an upwardly curved elbow mounted on said base providing a combustion chamber having an arcuate flame deflecting wall, means on said base for supporting a lead melting pot adjacent the up-

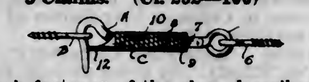
per end of said elbow and over the combustion chamber therein, a horizontally disposed cylindrical burner member communicating with the opposite end of said chamber through the lower end of said elbow, said burner member extending substantially parallel with said base and having its lower wall disposed a slight distance above the lower wall of said chamber to direct a flame into said elbow, said lower wall of said chamber having an opening at the lowermost point in said chamber and at the juncture between said elbow and cylindrical burner member, whereby the droppings from said melting pot into said elbow will be maintained in a molten state and automatically discharged through said port without the escape of flame from said combustion chamber.

2,283,982
BELL TYPE ANNEALING FURNACE
James H. Germany, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 7, 1939, Serial No. 298,461
2 Claims. (Cl. 266—5)



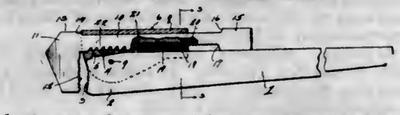
1. A directly gas-fired furnace of the type described, comprising a base having a hearth adapted to support a charge to be heat-treated while enveloped by a protective atmosphere, said base comprising a metallic base plate; liquid-containing gas-tight trough means in gas-tight relation to said base plate; a gas-tight metallic-refractory inner hood adapted to be placed about the charge supported by said base, said hood cooperating with said base to form an enclosure for said charge, said hood having an outwardly-directed skirt, said skirt terminating in a peripheral flange depending into the sealing liquid in said trough means; means for delivering protective atmosphere to, and removing it from said enclosure; a removable, insulating, walled bell about said hood, said bell having an inner wall spaced from said hood to provide a combustion space, said bell having an outer air-tight metallic casing, said bell being provided with a plurality of distributed openings through its walls and casing, and with flue provisions in the upper portion thereof, said flue provisions being in communication with said combustion space for the discharge of gaseous products of combustion; a plurality of gas burner means occupying said openings, for admitting controllable amounts of combustion-supporting gas and combustible fluid to said combustion space; said casing being provided with a downwardly-extending flange which is gas-tight with respect thereto, said casing flange depending into the sealing liquid in said trough means.

2,283,983
HOOK FASTENER
Thomas K. Gibson, Salt Lake City, Utah
Application August 9, 1941, Serial No. 406,212
5 Claims. (Cl. 292—106)



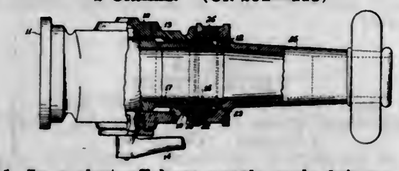
1. A hook fastener of the class described comprising a body having a hook formed on one end thereof; means slidably mounted on said body to close the opening of said hook; locking means pivotally mounted to said body, said slidable means and locking means having portions adapted to abut each other to lock the slidable means in the closed position, the outer surfaces of both means being formed with lines and with one of said lines coinciding with the juncture of said abutting portions.

2,283,984
WRENCH
Edward Graham, Lebanon, Tenn.
Application January 16, 1941, Serial No. 374,747
3 Claims. (Cl. 81—102)



1. A wrench, comprising an elongated handle having a jaw at one end, a frame enclosing an edge of the handle adjacent said end and having the said end of the handle pivotally attached thereto, the said end of the handle having said edge cut obliquely across the handle, a movable jaw head having a shank slidably extended between the said edge of the handle and the frame, said head having a jaw face in cooperative relation with the handle jaw, resilient means coupling said shank with the frame and tending to draw said jaws together, means for establishing a locking connection between said shank and the handle jaw when the handle is oscillated in one direction with respect to the frame, comprising a plurality of teeth formed along the shank in advance of said resilient means and directed toward the said one edge of the handle, and a single tooth carried by said handle upon the oblique portion of said edge, said handle carried tooth being separated from the teeth of said shank when the handle and shank are in substantially parallel relation whereby free sliding movement of the shank on said edge of and with respect to the handle is possible.

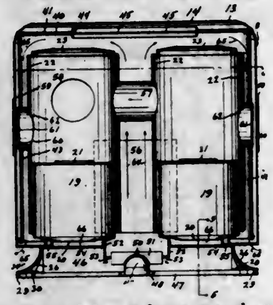
2,283,985
SHUTOFF NOZZLE
Jordan W. Grant, Portsmouth, Va., and Henry M. Hunt, Wooster, Ohio, assignors to Akron Brass Manufacturing Company, Inc., Wooster, Ohio, a corporation of Ohio
Application March 12, 1941, Serial No. 382,956
2 Claims. (Cl. 251—113)



1. In a shut-off hose nozzle embodying a cas-

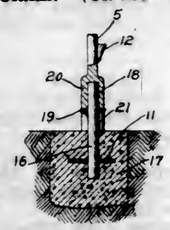
ing having a bore therethrough, a ball valve mounted therein, a cylindrical tubular member engaging said ball valve and terminating at one end of said bore, a ledge formed on the periphery of said cylindrical member intermediate its ends, a shoulder on said bore adjacent said ledge, a ring encircling said member and seated on said ledge and shoulder, and means within said bore engaging said ring to seal said bore with respect to said member.

2,283,986
HEATER
James T. Grotenhuis, Orange City, Iowa
Application February 1, 1939, Serial No. 254,054
1 Claim. (Cl. 126—110)



A heater comprising a base member, said base member including end and side members having substantially concave configurations, a blower fan attached within said base member, a pair of heating elements attached above said base member, a pair of vertical spaced partitions attached between said heating elements, a casing enclosing said heating elements and spaced therefrom, said casing providing means whereby heat passing upwardly along said heating elements will thence be deflected downwardly against said concave configurations, and thereby thence deflected from said configurations, the space between said partitions being positioned above said blower fan to additionally constrict and direct air currents thrown vertically thereby, said heating elements including heater drums, a connecting pipe member attached between said drums, said connecting pipe member being positioned vertically above the space between said partitions, said base member having a rear opening communicating to said blower fan, said casing having lower side edges vertically spaced above the lower portions of said base member and being laterally spaced from the top of said base.

2,283,987
CLOTHESLINE SUPPORT
Samuel H. Hammar, Stambaugh, Mich.
Application November 3, 1939, Serial No. 302,755
1 Claim. (Cl. 189—28)



A clothes line support comprising an anchoring block, a pole having its lower end enlarged to form a socket detachably resting on the anchoring block and having its side walls provided with transversely alined slots opening through the lower end of said socket, an anchoring member having its lower end embedded in the block and its upper end fitting within the socket, and a transverse pin carried by the anchoring member and engaging the walls of said slots.

2,283,988
SOAP HOLDER
Earl V. Heath, Miami, Fla.
Application April 7, 1941, Serial No. 387,345
1 Claim. (Cl. 45—28.6)



A soap holder comprising a back having notches in the longitudinal edges and having the end edges formed to provide guide flanges, a pair of plates slidably mounted upon each other in said guide flanges and provided at the outer ends with soap engaging teeth, and a handle comprising an intermediate portion engaged underneath the back, and upwardly and outwardly curved end portions engaged at the lower ends in said notches, the curved portions being spaced apart for the reception therebetween of the middle finger of the hand and curved upwardly and outwardly from the back for contact with the backs of the two adjacent fingers.

2,283,989
METHOD OF CHARGING AND CONDITIONING DEHYDRATORS
Guy J. Henry, Chicago, Ill.
Application June 4, 1938, Serial No. 211,849
7 Claims. (Cl. 210—134)

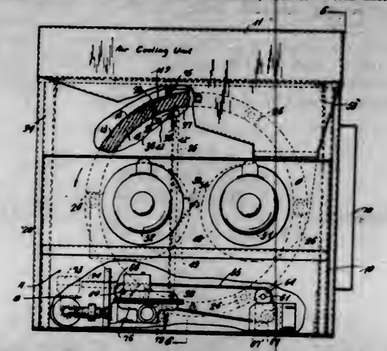


1. The method of preparing a dehydrator for use, which comprises loading a dehydrator casing with granular dehydrating material, subjecting the dehydrating material to the action of a vacuum after being loaded into the dehydrator casing, following the vacuum treatment by subjecting the dehydrating material to the action of air under pressure, and closing the casing to entrap the air under superatmospheric pressure and to maintain the dehydrating material under such condition before use.

2,283,990
DRUM TYPE DEHUMIDIFIER
Frank R. Higley, Cleveland Heights, Ohio, assignor to The Bryant Heater Company, Cleveland, Ohio, a corporation of Ohio
Application December 27, 1938, Serial No. 248,019
15 Claims. (Cl. 183—4)

10. In apparatus of the class described, a wall, a carrier open at one end and closed at the other and supporting therebetween a mass of adsorbent of generally annular section, said carrier being disposed with its open end at said wall and being mounted to rotate upon an axis

perpendicular thereto, partition means extending from said wall and dividing the cavity of said carrier into two compartments, said wall having

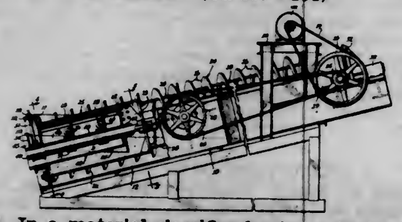


a pair of openings, one communicating with each of said compartments, and separate blower means arranged each to exhaust fluid from one of said compartments through its wall opening.

2,283,991
SEPARATION OF SULPHURIC ACID FROM CARBOXYLIC ACIDS
William H. Hill, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application November 25, 1939, Serial No. 306,198
12 Claims. (Cl. 260—540)

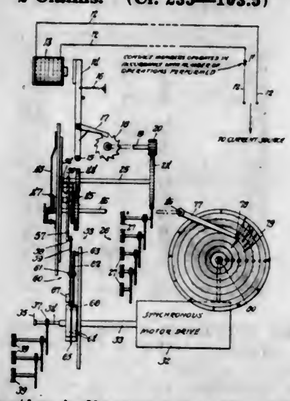
1. A method of separating a substance selected from the group consisting of monocarboxylic acids, monocarboxylic acid anhydrides, and dicarboxylic acid anhydrides from a mixture containing at least one polybasic inorganic acid which comprises subjecting said mixture to the action of a substance included in the group consisting of liquid ammonia and ammonia water solutions in which the water content is less than 50% in sufficient amount to dissolve the ammonium compound of the substance of the group consisting of monocarboxylic acids, monocarboxylic acid anhydrides, and dicarboxylic acid anhydrides, filtering and separating from the mixture.

2,283,992
MATERIAL CLASSIFIER
Homer C. Hirsch, El Paso, Tex.
Application March 12, 1940, Serial No. 323,543
15 Claims. (Cl. 209—464)



1. In a material classifier having a tank with an inclined bed and adapted to contain a body of liquid and solid particles therein to be classified, and a rotary screw-type conveyor for moving settled coarse solids along the tank bed to a place of discharge: a screen of substantially annular transverse cross-section carried by the conveyor and at least partly immersed in the liquid body, the screen establishing therewith a quiet zone in the liquid body adjacent the deep end of the tank and inside the periphery of the conveyor; liquid inlet means introducing liquid and solid particles into the liquid body at a point outside the screen; and liquid outlet means located adjacent the deep end of the tank in a position to receive liquid substantially only from the quiet zone.

2,283,993
PRODUCTION INDICATING APPARATUS
Frederick C. Holtz and Charles H. Lanphier, Springfield, Ill., assignors to Sangamo Electric Company, Springfield, Ill., a corporation of Illinois
Application May 29, 1939, Serial No. 276,320
2 Claims. (Cl. 235—103.5)

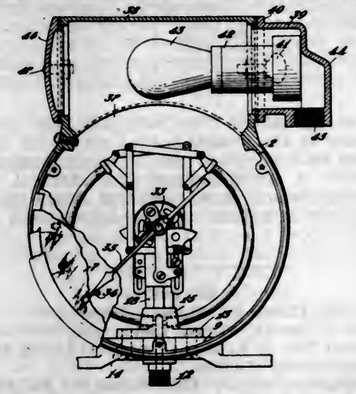


1. Production indicating apparatus comprising in combination, a pointer and a scale relative to which the same is movable and calibrated in number of operations in a production interval, said pointer being adapted to remain in any position with respect to said scale to which it is moved, means disposed to be operated each time an operator completes an operation, a member movable from an initial position toward said pointer, mechanism operatively interconnecting said means and said member for advancing the latter in accordance with the number of operations completed by the operator, continuously operable timing means, means operatively interconnecting said timing means and said movable member for resetting the same to its initial position at the end of each production interval, an indicator and a scale relative to which the same is movable and calibrated in time units of a production interval, and means operatively interconnecting said timing means and said indicator, said indicator being arranged to occupy a position corresponding to the beginning of a production interval at the time that said member is reset to its initial position and to indicate to the operator the portion of the production interval remaining during which he can change the number of operations performed so as to cause said movable member to reach said pointer at the end of the production interval.

2,283,994
INSTRUMENT
Frank H. Hopkins, Fairfield, Conn., assignor to Manning, Maxwell & Moore, Incorporated, New York, N. Y., a corporation of New Jersey
Original application July 13, 1940, Serial No. 345,321. Divided and this application April 26, 1941, Serial No. 390,461
2 Claims. (Cl. 240—2.1)

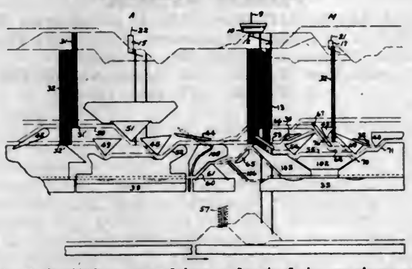
1. An instrument of the kind wherein a case,

which houses a gauge movement including an index staff, is provided with a side wall having an aperture therein, and an open-ended lamp housing which bridges said aperture and which is integrally united to the side wall of the case, said housing being substantially cylindrical with its axis perpendicular to the vertical plane of the index staff, the opposite ends of the housing being disposed symmetrically with respect to the vertical mid-plane of the case, the housing having an aperture in its side wall which registers



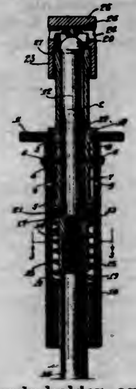
with the aperture in the side wall of the case, the opposite ends of the housing being alike and shaped for the reception of interchangeable closure caps, and interchangeable, removable caps normally closing the opposite ends of the housing, one of said caps being provided with a lamp socket so arranged as to support a lamp within the housing and above said aperture in the side wall of the housing, said latter cap also having an external hollow extension for the accommodation of an electrical conductor leading to the socket.

2,283,995
KNITTING MACHINE AND METHOD OF KNITTING
Alfred L. Hutton, Jr., Lonsdale, and Eugene St. Pierre, Pawtucket, R. I., assignors to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application April 14, 1939, Serial No. 267,830
10 Claims. (Cl. 66—135)



1. A knitting machine adapted to reciprocate to knit split work, said machine having two feeding stations and means for feeding a yarn to the needles at each feeding station, means for knitting each of the two yarns upon portions only of the needles and connecting the two knitted portions along suture wales, means for feeding a thread to needles upon opposite sides of a suture.

2,283,996
ELECTRODE HOLDER
Samuel James Irwin, Chester, and Kenneth M. Irwin, Coatesville, Pa.
Application May 25, 1940, Serial No. 337,306
3 Claims. (Cl. 219—8)



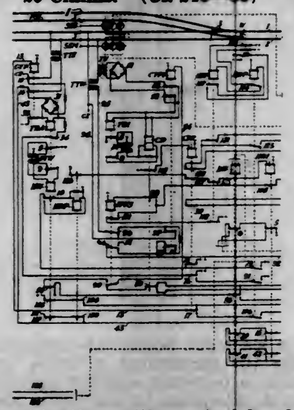
3. In an electrode holder, an insulated handle, a metallic tip comprising a sleeve secured to said handle, a terminal element mounted in the handle and extending through said sleeve, said element being normally electrically disconnected from the sleeve, an apertured cap threaded on the outer end of said sleeve and embracing the extremity of said element, said cap constituting a means for clamping an electrode against the said extremity of the terminal element, and means for preventing direct contact of said cap with the terminal element.

2,283,997
DRAWING TABLE
Jens C. Jensen, Santa Barbara, Calif.
Application June 24, 1940, Serial No. 342,159
2 Claims. (Cl. 45—131)



1. In a drawing table, an inclined table top supported in elevated position on depending legs, the said top having transversely extending slots therethrough, a pair of paper supply and receiving rollers, rotatably mounted below the top for feeding paper through the slots and over the upper face of the top, a bar mounted transversely on the top between the said slots, a pair of spring actuated elements attached to the end portions of the bar adapted to yieldingly force the bar toward the top surface of the table and to clampingly engage paper thereon, and an element pivotally connected to one end of the bar operable to selectively elevate an end of the bar so as to permit the insertion of a sheet of paper between the bar and the table top.

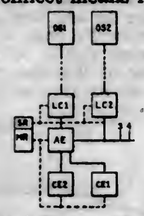
2,283,999
ABSOLUTE PERMISSIVE BLOCK SYSTEM OF RAILWAY SIGNALING
Ralph R. Kemmerer, Swissvale, and Crawford E. Staples, Edgewood, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application April 3, 1941, Serial No. 386,632
29 Claims. (Cl. 246—33)



8. In combination with a stretch of railway track divided into a plurality of successive adjoining track sections, each of said sections having at one end thereof a source of trackway energy and a first code following track relay and coding means constantly operating contacts to repeatedly connect the rails of the associated section first to said source and then to the winding of the said first track relay for producing coded track circuit energy consisting of alternate "on" and "off" intervals the latter of which coincide with said relay winding connections, each of said sections having at the opposite end thereof another code following track relay connected with the rails and having code generating means for supplying energy to the rails of its associated section during each "off" interval of the coded track circuit current therein, means controlled by the first-mentioned track relay and the other track relay at the adjacent ends of two adjoining track sections for controlling the code generating means associated with the said other track relay to render such means inactive and to supply the rails of the associated section with energy coded by the coding means at such location, and means controlled by each first track relay and by each other track relay for governing traffic on said stretch.

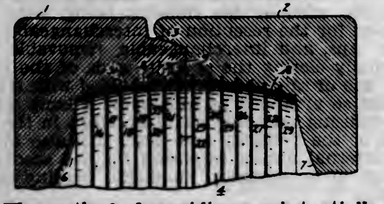
2,283,999
CALCULATING EQUIPMENT
Ladislas Kozma and Jakob Kruithof, Antwerp, Belgium, assignors to International Standard Electric Corporation, New York, N. Y.
Application October 27, 1939, Serial No. 301,596
In Great Britain October 21, 1938
4 Claims. (Cl. 235—61)

1. A calculating system comprising electrically controllable calculator means for performing a computation and transmitting answer signals representing the result thereof, a first transmitting-and-receiving equipment for transmitting control signals suitable for controlling said calculator means and for indicating the result represented by the answer signals from said calculator means, a second similar transmitting-and-receiving device, first and second call signalling devices respectively associated with said first and second transmitting-and-receiving equipments, means responsive to actuation of said first call signalling device for connecting said first transmitting-and-receiving equipment to said calculator means, disconnect means for disconnecting



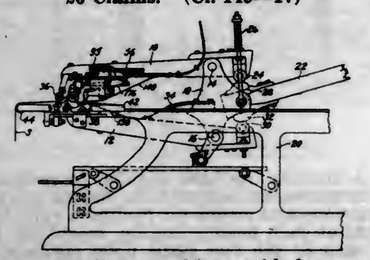
said first equipment from said calculator means responsive to the condition that successive operations of said calculator means are separated by more than a predetermined time interval, said disconnect means being rendered operative responsive to actuation of said second call signalling device.

2,284,000
METHOD OF MAKING MOLDS
Herman T. Kraft, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application July 31, 1939, Serial No. 287,523
5 Claims. (Cl. 29—148.2)



1. The method of providing a substantially annular circumferentially extending thin fin on the tread curing portion of a metal tire mold which comprises forming a thin flat strip of resilient metal to approximately ring shape, connecting the ends of the bent strip, and securing one edge of the strip to said mold portion by roll pressing.

2,284,001
STAKING MACHINE
Leo J. Lambert, Danvers, Mass., assignor to The Turner Tanning Machinery Company, Portland, Maine, a corporation of Maine
Application May 27, 1940, Serial No. 337,475
26 Claims. (Cl. 149—17)



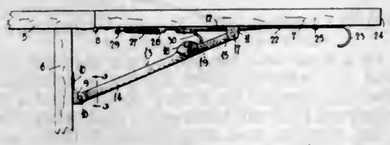
15. In a staking machine, a blade, a pair of members movable toward the blade to bend a portion of a skin over the blade whereby such portion of the skin will be stretched and softened during relative movement between the blade and the skin, a presser or brake member operative to press a marginal portion of a skin against a surface of the blade, a carrier for the brake member, electrical means for moving the carrier, a detector member spaced rearwardly from the blade a suitable distance and arranged to be controlled by the edge of the skin as the latter is moved past the staking blade, thereby to determine the extent of a marginal portion of the skin to be given treatment by said brake member, and a switch operated by the detector member to close the circuit of the electrical means whereby the carrier is moved to position the presser or brake member in co-operative relation to said blade for staking operations on marginal portions of the skin.

2,284,002
COMPOSITION AND METHOD (PLANT STIMULANT)
John F. Lontz, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 11, 1941, Serial No. 382,752
12 Claims. (Cl. 47—58)

1. A plant stimulant composiition containing as an essential active ingredient a naphthylalkanesulfonate.

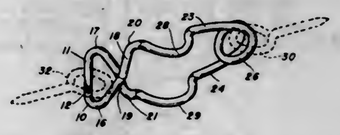
10. In the propagation of plants the method of altering the growth characteristics of the plant which comprises treating the plant with sodium 1-naphthylmethanesulfonate.

2,284,003
TABLE LEAF SUPPORT OPERATING MEANS
Valentine C. Luppert, Williamsport, Pa.
Application January 21, 1941, Serial No. 375,353
1 Claim. (Cl. 311—64)



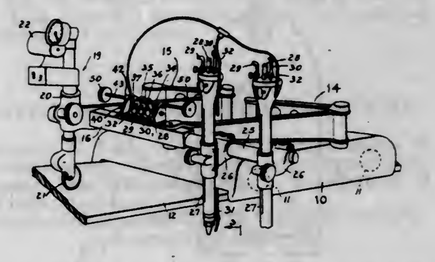
In an extension table of the type having a hingedly connected drop leaf and an end rail arranged adjacent thereto, a relatively long toggle link having one of its ends pivotally connected to said rail, a relatively short toggle link pivotally connected to the under side of said leaf, and a pivot pin connecting the other ends of the links and so located that when the leaf is arranged in a raised position the pivot pin will be above a straight line joining the pivots which connect the links to the leaf and rail respectively, the improvement which comprises a bar slidably connected to the underside of said leaf and movable lengthwise of the table top, a handle secured to the bar and positioned adjacent to the free edge of the leaf, a spring connecting the bar to the leaf and normally holding the bar in a retracted position, and a cam depending from and secured to the bar, said cam being positioned immediately above said short link and normally being maintained by the spring in a position where it will not interfere with upward swinging movement of the short link, said cam being adapted to engage the short link when the handle is pulled toward the free edge of the leaf, to cause breaking of the toggle joint.

2,284,004
RESILIENT SAFETY LATCH
Howard A. McCurdy, Fort Lewis, Wash.
Application February 23, 1940, Serial No. 320,279
3 Claims. (Cl. 292—20)



1. A resilient latch formed of wire comprising a pair of divergently tensioned side bars which are spaced apart and bent to extend across each other, and gripping jaws formed on the ends of the said crossed-over side bars and adapted to rest together in overlapping relation opposite to that of the crossed-over side bars to form a latching loop.

2,284,005
GAS CUTTING APPARATUS
James D. McKiernan, Brooklyn, N. Y., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application May 1, 1940, Serial No. 332,654
8 Claims. (Cl. 266—23)

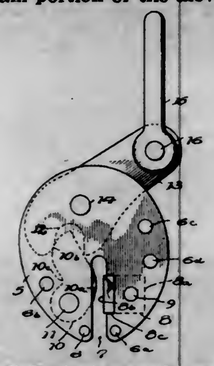


1. A cutting machine including in combination a carriage with wheels at both sides for stably supporting the carriage, a frame on the carriage for supporting a tracer and torch for universal movement in a plane with the tracer operating over a field between the paths followed by the wheels and the torch operating over a parallel field on the opposite side of one of said paths, valve means for controlling the supply of gas to the torch, and valve-actuator means extending transversely of the tracer field and including a handle accessible from the torch side of the tracer field, and another handle accessible from the other side of the tracer field.

2,284,006
PLATE CLAMP OR GRAPPLE
Samuel T. McLellan, South Charleston, W. Va.
Application June 13, 1941, Serial No. 397,959
7 Claims. (Cl. 294—104)

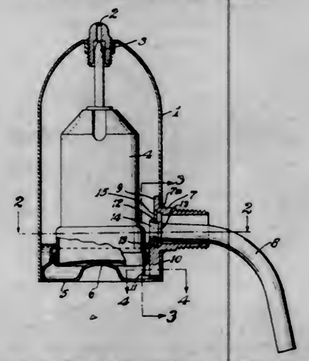
1. A grapple comprising a pair of plates fixed in definite spaced relation and constituting a housing, said housing plates having a jaw recess therein to receive the edge of a plate or like object to be lifted, a movable jaw pivotally mounted between the housing plates adjacent said recess, one end of said jaw being cam shaped, a fulcrum member also pivotally mounted between said

housing plates and having a jaw at one end engaging the cam portion of the movable jaw, and



a suspension link pivoted to the opposite end of the fulcrum member.

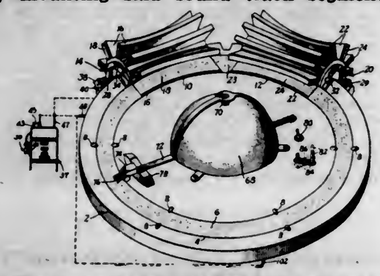
2,284,007
AIR VALVE
George R. Metzdorf, Chicago, Ill., assignor to The Dole Valve Company, Chicago, Ill., a corporation of Illinois
Application August 2, 1940, Serial No. 349,604
5 Claims. (Cl. 137—122)



1. An air valve comprising a casing made of a single piece having an opening in the side thereof, a nipple extending through said opening in the casing for attaching it to a radiator, said nipple provided with an enlargement on the inside of the casing, and a bottom separate from the casing and located entirely within the casing and having an inwardly projecting part having an opening at one side, the enlargement on said nipple fitting into this opening and being attached to the bottom.

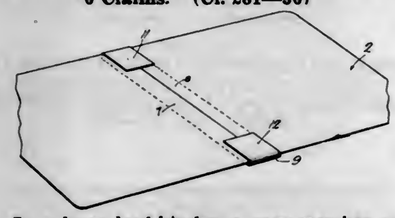
2,284,008
AUDIBLE METER
Isadore Miller, Trenton, N. J.
Application February 28, 1939, Serial No. 258,935
9 Claims. (Cl. 73—198)

1. In apparatus of the character described, a circular base portion, an arm rotatably mounted at the center of said base portion, a sound pick-up unit carried by said arm, an arcuately extending sound track mounted near the edge of said base portion but extending less than the total distance around said base portion to thereby provide a cut-out portion at one position along the edge of said base portion, a plurality of sound track segments each of which is of proper size to be inserted in said cut-out portion and to be positioned in alignment with said arcuately extending sound track, means rotatably mounting said sound track segments so



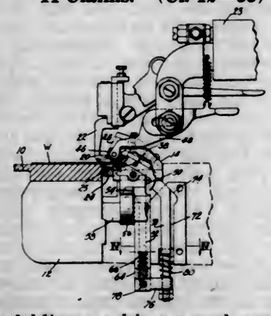
that they may be successively moved into said cut-out portion, and means to rotate said arm and move said sound pick-up device along said arcuately extending sound track and the particular sound track segment which is in alignment therewith.

2,284,009
LOOSE LEAF BINDER
Edward Murphy, Linden, N. J., assignor to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts
Application October 11, 1940, Serial No. 360,718
6 Claims. (Cl. 281—36)



1. In a loose leaf binder, a case member comprising an integral sheet having a reinforcing member juxtaposed on a back portion and a pair of reentrant folds covering said reinforcing member, the ends of said reinforcing member being bent over said reentrant folds.

2,284,010
FOLDING MACHINE
Walter E. Naugler, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 5, 1941, Serial No. 381,883
11 Claims. (Cl. 12—55)



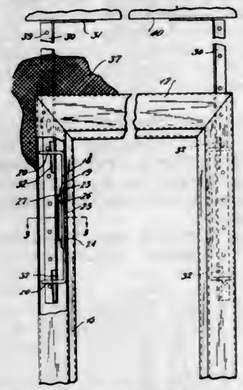
1. In a folding machine, a work support, means for feeding a piece of work over said work support, means for folding the margin of the work, a gage arranged to contact the edge of the work, and means intermittently adjusting the position of the edge to bring it into engagement with said gage thereby to present a predetermined width of margin to said folding means.

2,284,011
SOLENOID
Wallace F. Oliver, South Bend, Ind., assignor to Bendix Home Appliances, Inc., South Bend, Ind., a corporation of Delaware
Application September 18, 1939, Serial No. 295,401
5 Claims. (Cl. 175—341)



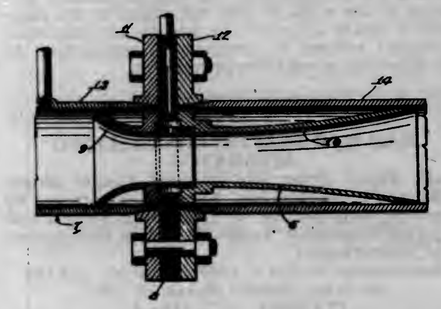
2. A solenoid comprising a magnetic frame having an opening therein defined by spaced pole faces, a magnetic plunger slidable through said opening and clearing the pole faces to provide an air gap, and enlarged portions on said plunger registering with said pole faces when the plunger is in its innermost position to reduce the air gap, one of said enlarged portions being closer to its adjacent pole face than the other whereby the plunger will always be biased toward the same pole face, and a spring carried by the plunger and engaging the frame on one side only of the plunger during the last part of the inward plunger movement.

2,284,012
BUILDING CONSTRUCTION
John P. Paca, Canton, Ohio, assignor to Diebold Safe & Lock Company, Canton, Ohio, a corporation of Ohio
Application August 3, 1940, Serial No. 350,387
3 Claims. (Cl. 189—46)



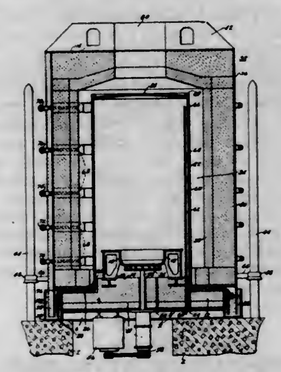
1. The combination with a frame for a wall opening comprising side and cross members, of a bracket adapted to be secured within the channel of said side member and having a portion extending outwardly therefrom, said outwardly extending portion being provided with a slot, and a second slot intersecting the first slot near the center thereof, a strut member having one end adapted to be anchored to a ceiling and the other end slidably received in the slot in the outwardly extending portion of said bracket and a relatively thin tapering wedge member adapted to engage in said second slot and serving to force said strut member against the wall of said slot.

2,284,013
VENTURI TUBE OR METER
William S. Pardoe, Merion, Pa.
Application June 7, 1940, Serial No. 339,402
2 Claims. (Cl. 73—213)



1. The combination with a conduit, of a Venturi tube, and means secured to and forming a support for said tube within the conduit and comprising a channel forming a passage to the tube from the exterior of the conduit, said means having low thermal conductivity so as to insulate the tube against exchanges of heat with sources external to the conduit.

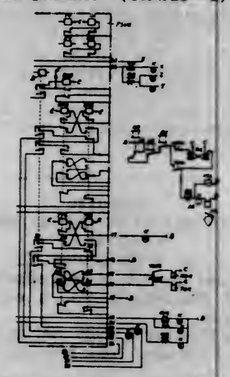
2,284,014
DIRECT FIRED CYLINDRICAL BELL TYPE FURNACE
Clarence E. Peck, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 7, 1939, Serial No. 298,456
7 Claims. (Cl. 266—5)



1. A vertically-disposed directly gas-fired bell type furnace adapted for accurate temperature control and distribution therein, comprising a base adapted to support a charge to be heat-treated; a gas-tight metallic-refractory, inner hood adapted to be placed about said charge and cooperating with said base to enclose said charge; a removable, insulating, walled bell about said hood, cooperating with said base, and having an

inner wall spaced from said hood to provide a closed combustion space with flue provisions in the top of said bell for discharging the products of combustion, said hood and bell being so constructed and arranged that said combustion space increases in cross-sectional area with increased distance upwardy of the bell; burner means in said bell for supplying combustion fluids, comprising a combustible fluid and oxygen-containing gas, to said space, said burner means comprising a multiplicity of burners distributed vertically in the walls of said bell, whereby the combustion space increases in size to accommodate increased volume of products of combustion in the direction of said flue provisions.

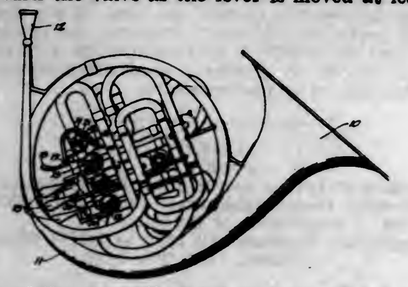
2,284,015
RAILWAY TRAFFIC CONTROLLING APPARATUS
Leslie Hurst Peter and Douglas Goldie Shipp, King's Cross, London, England, assignors, by mesne assignments, to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application March 9, 1940, Serial No. 323,196
In Great Britain March 10, 1939
15 Claims. (Cl. 246—3)



1. In a railway traffic controlling system, impulse signaling apparatus for communicating between a central point of control and a field station, a plurality of railway traffic governing devices at said station, and a dual system of control for said devices comprising control relays responsive to impulse signals transmitted at times from the central point of control for controlling the operation of said devices, manually operable control levers at another point of control for at other times controlling such operation by the operation of said levers, and change-over means responsive to a special impulse signal transmitted from the central point of control for effecting the transfer from central control to the control of said devices by said levers.

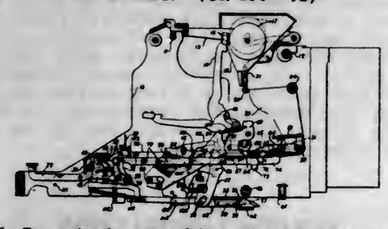
2,284,016
WIND MUSICAL INSTRUMENT
Norman C. Pickering, Elkhart, Ind., assignor to C. G. Conn, Ltd., Elkhart, Ind., a corporation of Indiana
Application August 27, 1941, Serial No. 408,417
12 Claims. (Cl. 84—390)

1. In a wind musical instrument having a rotary control valve, means for operating the valve comprising a pivoted lever having one end movable toward and away from the valve, and a flexible spring strip connected at its opposite ends to said end of the lever and to the valve to turn the valve as the lever is moved at least



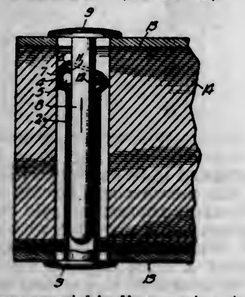
one of the connections being rigid whereby the spring is flexed during operation.

2,284,017
TYPEWRITING MACHINE
Henry L. Pitman, Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application April 19, 1939, Serial No. 268,767
17 Claims. (Cl. 197—73)



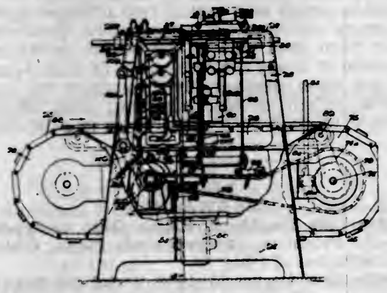
11. In a typing machine, the combination of a shiftable part, a shift key, a power mechanism responsive to movement of said key to an operated position to shift said part from a normal position to a shifted position, and a lock mechanism controlled partly by said key and partly by said power mechanism to effect and determine sustained or transient maintenance of said part in shifted position in correspondence to immediate or delayed return of said key from its operated position.

2,284,018
PERMANENT BINDING POST
William Pitt, Union, N. J., assignor to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts
Application March 8, 1941, Serial No. 382,282
2 Claims. (Cl. 85—5)



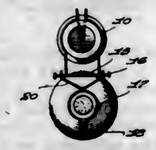
1. In a permanent binding post, a tubular post section having an annular recess, said annular recess varying in length progressively around the circumference of said tubular post section, and a locking washer confined in said recess.

2,284,019
LABELING APPARATUS
Paul R. Powell, Baltimore, Md.
Application March 16, 1940, Serial No. 324,424
36 Claims. (Cl. 216—54)



1. In a labeling apparatus, means to support and move articles along a predetermined path, a carriage movable along said path, label applying elements carried by said carriage and movable laterally toward said path, and means to move said carriage and label applying elements substantially at the same linear speed as said supporting means at least while the label applying elements are adjacent the article.

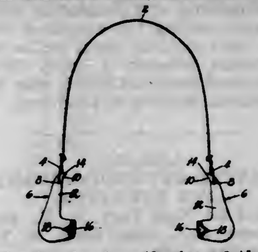
2,284,020
CAP RETAINER FOR DISPENSING TUBES
Louis M. Rausch, Neenah, Wis.
Application August 12, 1940, Serial No. 352,321
5 Claims. (Cl. 221—60)



1. The combination with a dispensing tube having a discharge nipple and closure cap, of a cap retainer including an upper member having a socket adapted to rotatably receive said cap and having portions thereof intersecting and extended in opposite directions to form pins terminating in finger engaging buttons, and a lower member fitting over and yieldably engaging the nipple of the tube and provided with intersecting portions terminating in arms having eyes receiving said pins adjacent said buttons to permit the upper member to be swung laterally with respect to the lower member.

2,284,021
UPPER-HOLDING DEVICE
Charles A. Robinson, Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application July 12, 1941, Serial No. 402,109
11 Claims. (Cl. 12—107)

1. A device for holding an upper in lasted position around an end of a shoe, said device including a binder for engaging the upper around the end of the shoe, and members connected to said binder and arranged to serve as levers fulcrumed on the shoe independently of each other



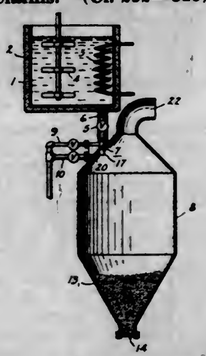
to force the binder lengthwise of the shoe while thus engaging the upper.

2,284,022
REINFORCED METAL PLATE CONSTRUCTION
John Schmeller, Sr., Lakewood, Ohio
Application May 13, 1940, Serial No. 334,717
4 Claims. (Cl. 94—5)



1. An article of the character described having in combination a metal plate having fragments of non-slipping material embedded so as to project from the active surface thereof, said plate being formed longitudinally on an arc of shallow curvature, a plurality of longitudinal reinforcing elements disposed beneath said plate and conforming at their upper edges to the curvature of said plate and having straight lower edges and reinforcing bars embedded in said members at an intermediate point and terminating short of the end portions of said plate, the extreme ends of said plate being free of reinforcement and adapted to rest on supporting members at a low angle.

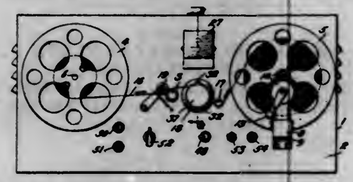
2,284,023
EMULSIFIABLE COMPOSITION AND METHOD OF PREPARING SAME
Edward W. Scripture, Jr., Shaker Heights, Ohio
Application February 3, 1940, Serial No. 317,178
13 Claims. (Cl. 252—316)



1. A process of preparing a readily emulsifiable, water-insoluble solid which comprises heating a solid, meltable, water-insoluble, organic

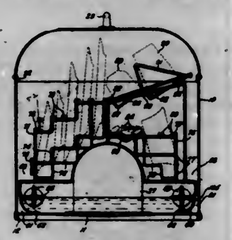
material above its melting point, forming a mixture of said meltable material and an emulsifying agent, atomizing and projecting the mixture into a gas, and cooling the atomized liquid particles below their melting point while suspended in gaseous media, whereby a finely divided, water-insoluble solid material which may be readily dispersed without melting is produced.

2,284,024
TAPE-ACTUATED REPRODUCER AND LIGHT GATE THEREFOR
Edwin F. Stevens, New York, N. Y., assignor to Lon-Ga-Tone, Inc., New York, N. Y., a corporation of New York
Application March 19, 1941, Serial No. 384,067
5 Claims. (Cl. 178—115)



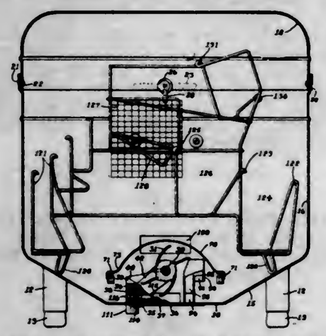
1. In a system for transmitting electrical impulses in accordance with indicia on a movable tape, a light gate comprising a housing adapted to receive a photoelectric cell, said housing having an opening which extends therethrough and in which said tape is adapted to run, a light shield slidably mounted in said housing and containing an aperture lying within the field of said opening so as to be traversed by the tape running past said opening, and means for adjusting the position of said aperture in said opening.

2,284,025
DISHWASHER
Gordon Ellis Stockham, Piqua, Ohio, assignor to Piqua Products, Incorporated, Piqua, Ohio, a corporation of Ohio
Application June 19, 1936, Serial No. 86,137
18 Claims. (Cl. 141—9)



17. A washing machine for washing dishes and the like comprising a washing chamber adapted to contain a quantity of washing fluid, means for supporting articles to be washed in said chamber, said chamber having a collecting area extending over substantially the longitudinal dimension thereof in which said washing fluid collects as a pool, impeller means effective along the longitudinal extent of said washing chamber with the axis thereof generally horizontal and positioned above said collecting area, a plurality of blades around the periphery of said impeller, said blades having a limited working face with a radial dimension of the order of one inch or above to provide a working face of limited depth adapted to dip within a small section of the fluid within said collecting pool to a substantially uniform depth to provide for picking up a limited quantity of fluid on the face thereof by lateral flow of fluid thereinto, and means for rotating said impeller at speeds of the order of 1700 to 2200 R. P. M. and above, the radial dimension of the impeller blades and the speed of rotation thereof being coordinated with the number of blades to provide for the flow of only a small part of the contents of said pool into the face of each blade and to effect travel of the blades in excess of a critical rate of speed such as to secure discharge of the limited quantity of water from each part of the blades upwardly in the form of finely divided sprays of high velocity and low mass substantially throughout the longitudinal extent of said chamber into effective washing relation with the articles in said chamber.

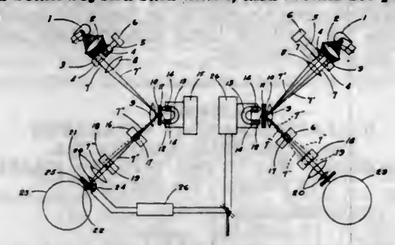
2,284,026
DISHWASHER
Gordon Ellis Stockham, Piqua, Ohio, assignor to Piqua Products, Incorporated, Piqua, Ohio, a corporation of Ohio
Application August 25, 1938, Serial No. 226,611
19 Claims. (Cl. 141—9)



1. A washing device of the character described which comprises a container adapted to receive a quantity of washing fluid, a shaft extending along the lower portion of said container, a plurality of spaced impellers mounted on said shaft, spaced baffle means adjacent and in corresponding alignment with the periphery of said impellers on the upwardly moving side thereof and limiting the supplying of washing fluid to the impellers in a radial direction from the discharge side thereof while providing for supply of fluid from between adjacent blades, and means for rotating said shaft and said impellers at high speed to distribute the water into and throughout the interior of the container in a finely divided spray travelling at high velocity and having low mass.

2,284,027
TELEPHOTO MACHINE
Louis A. Thompson, Lakewood, Ohio, assignor to Acme Newspictures, Inc., New York, N. Y., a corporation of Delaware
Application May 10, 1940, Serial No. 334,371
12 Claims. (Cl. 178—6.7)

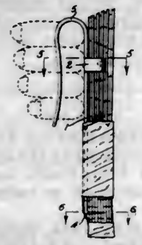
1. An apparatus for facsimile transmission including a light source, means to convert said light from said source to a beam, means for swinging said light beam including an oscilloscope, a mask over which said swinging beam passes formed to provide an opening therein, said beam adapted to pass through said opening during part of its swing, a picture movably disposed in the path of said beam beyond said mask, and means for picking up and converting said light into electrical currents after having engaged said picture.



2,284,028
DRY SPINNING PROCESS
Leo Ubbelohde, Berlin-Charlottenburg, Germany
No Drawing. Application September 26, 1939, Serial No. 296,686
23 Claims. (Cl. 18—54)

1. A process for forming products from aqueous solutions of cellulosic material which comprises heating a solution of such material to a temperature between approximately 30° C. and 80° C., thereafter, and while the solution is at such temperature, forming the solution into substantially the shape of the final product and passing the same into a current of a gaseous drying atmosphere, and regenerating the formed product to cellulose.

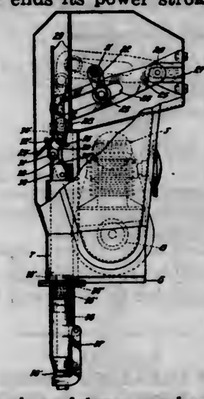
2,284,029
WEDDING BOUQUET HOLDER
Thomas M. Welling, Cleveland, Ohio
Application September 20, 1940, Serial No. 357,641
2 Claims. (Cl. 24—6)



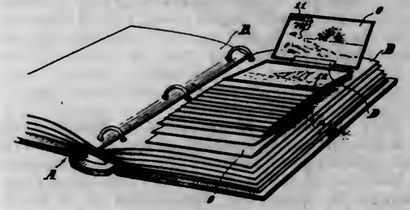
1. A bouquet holder of pliable material, comprising a substantially straight shank portion, clamping means extending from said shank for embracing the stems of the bouquet, and one end portion of the shank extending reversely in the form of a hook.

2,284,030
HAMMER
Norman C. Woodin, Rock Island, Ill.
Application March 28, 1941, Serial No. 385,702
6 Claims. (Cl. 125—33)

1. In a power hammer, a frame structure, a hammer slidable in said frame, power means mounted on said frame, transmission means, including a manual and over-riding clutch, a rotatable crank driven by said transmission, a pivotal and slidable lever actuated by said crank, toggle links connecting said lever and hammer, means to hold said lever and links in driving relation to the hammer, and means to permit free pivotal action of said lever and links when the hammer ends its power stroke, whereby the rotatable crank and lever mechanism may continue to operate freely under variable strokes of the hammer.



2,284,031
DISPLAY DEVICE FOR PHOTO PRINTS OR THE LIKE
Roy W. Arnold and Sol Scheinman, White Plains, N. Y., assignors to American Binder Company, New York, N. Y., a corporation of New York
Application March 7, 1940, Serial No. 322,640
2 Claims. (Cl. 129—20)



1. For use in mounting photographs or the like, a pocket open at one end and having at least one transparent face, a backing adapted for insertion into said pocket, a tab projecting from an edge of said backing and folded over one side of the same, whereby a photograph or the like may be placed on said backing with the tab overlying the said photograph, and when the assembly thus produced is slipped into the pocket the tab will be prevented from unfolding and will be pressed against the photograph so as to hold it in place on the backing, said tab being adapted for the reception of indicia descriptive of the photograph.

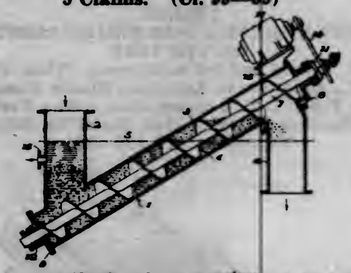
2,284,032
MATCH PACKAGE
Robert L. Bergman and Harry Evans, Brooklyn, N. Y.
Application May 15, 1940, Serial No. 335,232
1 Claim. (Cl. 40—126)

A match book or the like, comprising a match comb consisting of a plurality of matches situated one next to the other and having interengaging edges, and a covering folded to form a front flap covering said match comb, advertising matter printed on said front flap, a design so selected that it illustrates said advertising matter and having a portion printed on said front flap, another portion of said design being formed

by a cut-out portion of said front flap, the edges of the matches showing through said cut-out portion forming a third portion of said design, said design being completed by all of said three design portions.

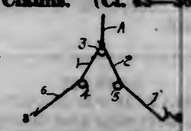


2,284,033
PROCESS OF TREATING GREEN COFFEE
Norton E. Berry, Summit, N. J., assignor to General Foods Corporation, New York, N. Y., a corporation of Delaware
Application September 9, 1941, Serial No. 410,221
5 Claims. (Cl. 99—89)



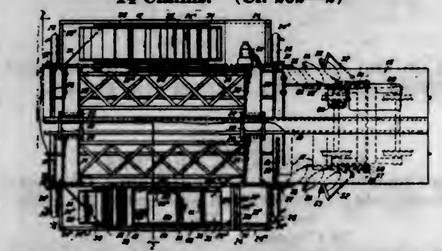
1. The method of preparing green coffee beans for solvent extraction of caffein therefrom which comprises immersing the beans in an aqueous solution of coffee water solubles for a period sufficient to cause the absorption of a desired amount of moisture by the beans, said solution being used in amount sufficient to insure complete immersion of the beans throughout their period of treatment therein and containing coffee water solubles in dynamic equilibrium concentration with the water solubles in solution in the beans.

2,284,034
EXPANDING FISHHOOK
Andrew Binkowski, Lansing, Mich.
Application January 15, 1941, Serial No. 374,578
3 Claims. (Cl. 43—36)



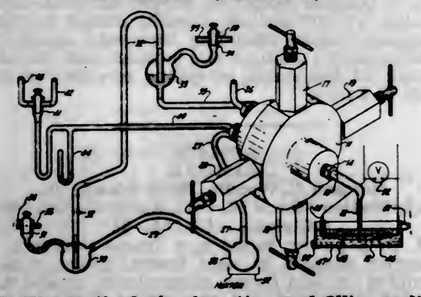
1. In a spreading plural fish hooks construction, a unitary resilient wire having an open ring form middle part constructed to be connected to a fishing line, said wire extending from said line connection to make two upper leg portions, each of said upper legs having at a distance from the said line connection portions turned inwardly to form rings projecting towards each other, the said wire being extended from the said projecting rings to make lower leg portions, the ends of said lower leg portions being formed into fish hooks projecting in different directions with respect to each other, and the said wire being normally expanded divergently in V-shape and said leg portions constructed to be brought together against the resilient force whereby said hooks may be baited together.

2,284,035
BALLAST CLEANING APPARATUS
Tom Arthur Blair, Amarillo, Tex.
Application May 21, 1941, Serial No. 394,523
14 Claims. (Cl. 262—2)



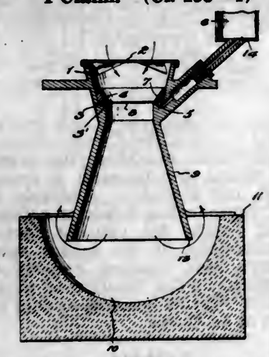
1. A ballast cleaning apparatus comprising a railroad flat car; a frame mounted on the car to move beyond the car side; a vertically rotating wheel mounted in said frame so as to contact at its bottom with the ballast shoulder at the side of a railroad track, said wheel being provided with a plurality of circumferentially arranged open ended buckets adapted to receive ballast at the outer ends and to discharge the ballast at the inner ends within the wheel; downwardly and rearwardly sloping grizzlies secured to said frame and disposed within the wheel, to receive the ballast discharging through the inner ends of said buckets and to direct the cleaned ballast toward the rear of the wheel; means secured to the frame and disposed within the wheel beneath said grizzlies whereby the separated dirt is discharged beyond the ballast shoulder; and means secured to said frame forward of said wheel for scooping up the ballast and delivering it to the upwardly traveling buckets.

2,284,036
METHOD AND APPARATUS FOR EXHAUSTING AND FILLING DISCHARGE DEVICES
Cornelis Bol, Palo Alto, Calif., assignor to General Electric Company, a corporation of New York
Application May 12, 1941, Serial No. 393,004
13 Claims. (Cl. 176—2)



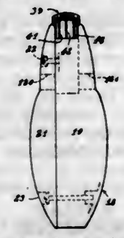
7. The method of exhausting and filling a discharge device which comprises connecting the device to exhausting and filling apparatus, exhausting said device, heating the device externally to cause the liberation of any contamination so that it is drawn off with the exhaust, filling the device with a gaseous atmosphere, introducing a vaporizable material into said device, creating a discharge therein, establishing the operating characteristics of the device by readjusting the amount of vaporizable material within the device and thereafter sealing said device from the exhausting and filling apparatus.

2,284,037
BURNER FOR LIQUID FUELS
Rafael Braida, Buenos Aires, Argentina
Application September 6, 1939, Serial No. 293,637
In Argentina December 12, 1938
1 Claim. (Cl. 158—4)



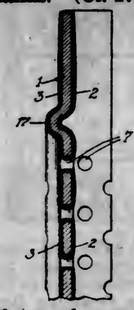
A burner for liquid fuel comprising in combination, an inverted hollow frustoconical member, a refractory block having a hemispherical-shaped recess therein, a second hollow frustoconical member depending from the inverted hollow frustoconical member into said hemispherical-shaped recess, said second hollow hemispherical member flaring outwardly at the lower end thereof with the lower end spaced from the surface of the refractory block within said recess, said inverted hollow frustoconical member having an annular groove therein adjacent the second hollow frustoconical member, means for supplying liquid fuel to said annular groove, an apertured disc covering the top of the inverted hollow frustoconical member, and an annular member carried by the inverted hollow frustoconical member adjacent said groove.

2,284,038
SHAVING IMPLEMENT
John Bruecker, Chicago, Ill.
Application February 2, 1940, Serial No. 316,990
19 Claims. (Cl. 30—43)
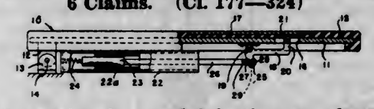


1. In a shaving implement, a comb comprising a skin-engaging member and a truss structure, the skin-engaging member being of a single piece of sheet metal having a central area provided with hair-receiving openings adapted for close shaving and a marginal edge provided with clipping teeth adapted for cutting long hair, the truss structure being shaped to support the skin-engaging member with its said central area and its said marginal edge in a form arched lengthwise and crosswise, and means securing the skin-engaging member to the truss structure with said member conforming to said arched form.

2,284,039
REPRODUCTION OF SOUND
William A. Bruno, Astoria, N. Y., assignor, by mesne assignments, to Bruno Patents Inc., Long Island City, N. Y., a corporation of New York
Application July 16, 1940, Serial No. 345,714
4 Claims. (Cl. 179—111)



1. In a translator of sound energy into electrical energy and electrical energy into sound energy, an electro-statically charged system adapted to translate sound energy into electrical energy without the simultaneous supply of electrical energy to said system by outside sources, said system comprising a metallic back plate having transverse perforations extending from side to side, and consisting of aluminum having an electrolytically oxidized surface, a thin coating of carnauba wax composition on said electrolytically oxidized surface, and a diaphragm consisting of a thin aluminum foil.

2,284,040
SIGNAL
Stuart H. Caldwell, Detroit, Mich., assignor to Kelch Heater Company, Detroit, Mich., a corporation of Michigan
Application June 19, 1939, Serial No. 279,957
6 Claims. (Cl. 177—324)

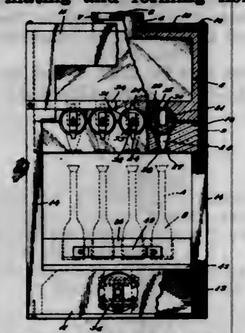


1. In a signal, a pedal having an elongated metal frame and a resilient tread upon the upper surface of said frame and bonded thereto, the frame having an opening through the bottom thereof to the resilient tread, a solenoid on the underside of the pedal with the axis thereof substantially parallel to the elongated frame of the pedal, and means actuable by the solenoid for transmitting warning impulses to the resilient tread, including a member movable in the opening aforesaid in the frame of the pedal.

2,284,041
ACID DISPENSER
Olaf L. Chapman, Marshfield, Mo.
Application September 18, 1940, Serial No. 357,326
1 Claim. (Cl. 226—104)

An apparatus for dispensing liquids into test

vials or the like comprising a boxlike casing including a lower open top chamber, a flat bottom liquid containing tank removably mounted in the upper part of said casing and having rows of liquid discharging apertures in the bottom thereof, a horizontally extending plate in the casing below the tank supporting the latter and having rows of funnel shaped discharge ports therein, the rows of discharge ports registering with the rows of discharge apertures, semi-circular grooves in the bottom of the tank and the top of said plate mating and forming horizontal cir-



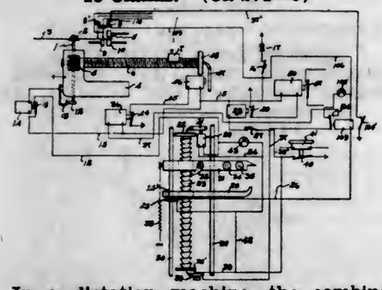
cular bores parallel with and intermediate registering rows of apertures and ports, cylindrical measuring and dispensing cores rotatably mounted in said bores for receiving liquids discharged from said apertures and emptying the same into said ports, a platform at the top of the chamber for supporting vials beneath said discharge ports and vertically movable to elevate the mouths of the vials up to said ports, and means in the chamber operated to move said platform, said casing being open at its sides between said plate and platform to render the vials visible during filling.

2,284,042
DOBBY CORD
Breckinridge T. Clark, Danielson, Conn., assignor to E. H. Jacobs Mfg. Co., Inc., Danielson, Conn., a corporation of Connecticut
Original application June 22, 1939, Serial No. 280,509, now Patent No. 2,240,982, dated May 6, 1941. Divided and this application April 9, 1941, Serial No. 387,639
2 Claims. (Cl. 24—123)



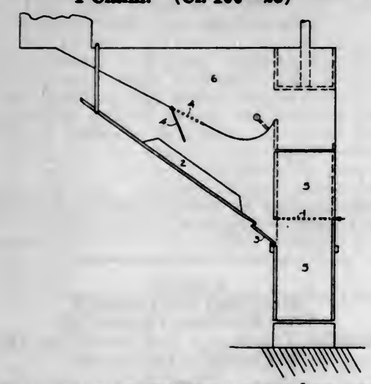
1. A reinforced dobby cord of the kind described, comprising a braided textile sheath and a reinforced wire core, the wire core extending beyond the end portion of the sheath, a metallic fastening member formed with a plurality of extending shank portions in contact with diametrically opposite portions of said extending wire core overlapping said wire core, and with the extreme end portion of the wire core extending beyond the shank portions and being riveted over a part of said metallic fastener, and molten metal covering, protecting, and bonding the interlocked shanks and wire, and forming a ferrule on the end portion of the sheath.

2,284,043
MARKING MECHANISM FOR DICTATION MACHINES
Henry P. Clausen, White Plains, N. Y., assignor to The Gray Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application January 28, 1941, Serial No. 376,293
13 Claims. (Cl. 274—9)



1. In a dictation machine, the combination comprising means for forming a record on a record tablet and including relatively fixed recording and reproducing heads, a rotatable record support, means for causing forward and backward movement of the record support for recording and back spacing respectively, and means controlled by the rotation of said support to indicate the relative position of said head and record tablet at all times.

2,284,044
COTTON BALING APPARATUS
Wayne Denton Cohea and Howard Sentenel Eubanks, Frederick, Okla.
Application June 24, 1939, Serial No. 281,004
1 Claim. (Cl. 100—25)

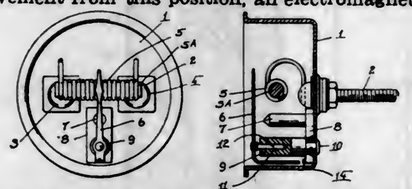


Baling means comprising a press box, removable means for dividing said press box into a plurality of compartments and means for selectively feeding desired portions of an oncoming stream of material to be baled to any desired one of said compartments, whereby said desired portions of the oncoming stream are caused to occupy predetermined positions in the finished bale.

2,284,045
AMMETER
William B. Connolly, Rochester, N. Y., assignor to Rochester Manufacturing Co. Incorporated, Rochester, N. Y.
Application July 22, 1940, Serial No. 346,823
14 Claims. (Cl. 171—34)

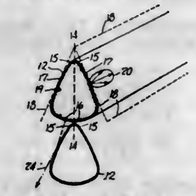
1. An electric current indicating device com-

prising a housing having a base, a magnetized, hardened steel indicating pointer mounted to swing in said housing in a plane substantially parallel to the base thereof, a permanent magnet mounted between said pointer and said base and with its magnetic poles arranged to provide a substantially constant magnetic coupling with a portion of said magnetized pointer for magnetically holding said pointer in a normal predetermined position and magnetically dampening its movement from this position, an electromagnetic



coil, and a soft iron core carried by said coil, said electromagnetic coil being arranged intermediate the pointer and the base of the housing and spaced from said permanent magnet to provide a variable magnetic coupling with a portion of said magnetized pointer unaffected by said permanent magnetic coupling so as to cause magnetically dampened movement of the pointer portion located within the magnetic field of said permanent magnet when said electromagnetic coil is electrically energized.

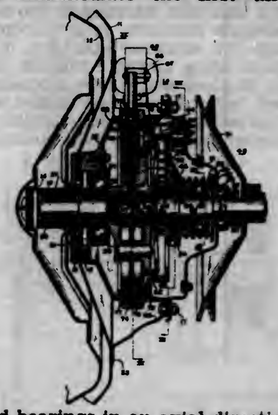
2,284,046
FLUORESCENT LAMP
Leroy C. Doane, Meriden, Conn., assignor to The Doane Products Corporation, Meriden, Conn., a corporation of Connecticut
Application November 21, 1939, Serial No. 305,440
3 Claims. (Cl. 176—122)



1. A fluorescent lamp having a transparent envelope provided with an inside coating of fluorescent material, the envelope being symmetrical about a median plane and having a cross section which provides substantial areas oblique to and converging toward said median plane, whereby the lamp has an asymmetric distribution of light with respect to the longitudinal axis through said plane with the regions of maximum light flux in directions substantially normal to said oblique areas.

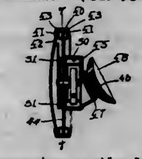
2,284,047
TRANSMISSION
Hilbert E. Edwards, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 17, 1940, Serial No. 353,049
10 Claims. (Cl. 74—291)

1. In a transmission, the combination of a casing structure, a driven sleeve extending through one end of the casing structure, a driving shaft extending through a second end of the casing and extending within said sleeve, a bearing interposed between the driving shaft and the end of the casing through which it projects, a second bearing for journalling the end of the driving shaft within said sleeve, a third bearing arranged intermediate the first and second-



mentioned bearings in an axial direction and interposed between the sleeve and the end of the casing through which it projects, and a planetary gear mechanism connecting the shaft and sleeve and arranged intermediate the first and third bearings.

2,284,048
THERMOMETER CONSTRUCTION
George E. Ford, Rochester, N. Y., assignor to Rochester Manufacturing Co. Incorporated, Rochester, N. Y., a corporation of New York
Application April 21, 1939, Serial No. 269,192
7 Claims. (Cl. 73—367)

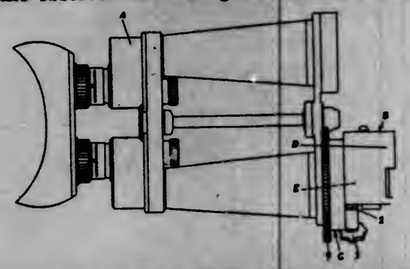


4. In a thermometer or the like for attachment to the inclined windshield of an automobile, the combination of a housing, a translucent dial within said housing, a pair of spacing rings mounted in said housing for engagement of opposite sides of said dial, a casing supported by said dial substantially centrally thereof, a bimetallic coil in said casing, a pointer operatively connected with said coil for movement over said dial, a cover for said casing, an inclined pocket in said cover and a rubber suction cup anchored in said inclined pocket for mounting engagement with the windshield and the support of the thermometer in a substantially vertical position.

2,284,049
OPTICAL OBSERVATION INSTRUMENT
James Weir French, Anniesland, Glasgow, Scotland, assignor to Barr and Stroud, Limited, Anniesland, Glasgow, Scotland
Application June 27, 1940, Serial No. 342,821
In Great Britain May 31, 1939
5 Claims. (Cl. 88—2.7)

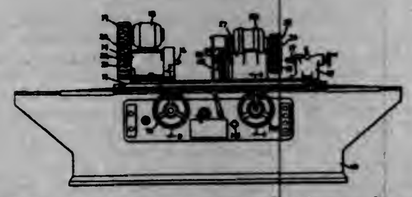
1. An optical observation instrument of the hand-carried type having a telescope optical system to form a normal image of a distant object by light received through an entrance aperture

and provided with range estimating means comprising two reflectors, one located directly in front of the entrance aperture aforesaid and the other laterally thereof, to direct a secondary beam of light, which reaches the instrument at the second reflector and thus laterally to the side of the normal entrance aperture, into the optical system through the entrance aperture, one of the said reflectors being movable relative to the instrument to displace and set the secondary image of the object, formed by the secondary beam, relatively to the normal image, mechanism operable by the observer for moving said movable reflec-



tor, and a scale arrangement including two graduated elements, one graduated in accordance with object dimensions and the other in accordance with range values, the latter element moving with the second reflector relative to the first graduated element and the two graduated elements being readable against one another, so that when the two images are set into pre-determined relationship in the field of view, the range can be read off the range-graduated element against any given object dimension value or object dimension can be read off the object dimension scale against any given range value.

2,284,050
GRINDING MACHINE
John I. Garside, West Boylston, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application June 19, 1940, Serial No. 341,333
8 Claims. (Cl. 51—95)



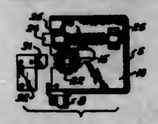
1. In a grinding machine having a base, a longitudinally movable rotatable work support and a transversely movable rotatable grinding wheel, a transversely movable wheel slide on said base, a transversely movable supporting member on said slide, an angularly adjustable head on said member to support said grinding wheel, said angularly adjustable wheel head and supporting member serving to facilitate a rapid transverse and angular movement of the wheel head and grinding wheel relative to said slide, means to clamp said head and member in adjusted position, a swivel adjustment between said slide and said base whereby said slide may be angularly positioned relative to the base, and a wheel feeding mechanism operatively connected to move said slide transversely in any adjusted position thereof.

2,284,051
VACUUM BREAKER
Russell C. Gilbert, South Bend, Ind., assignor to Bendix Home Appliances, Inc., South Bend, Ind., a corporation of Delaware
Application November 22, 1940, Serial No. 366,592
10 Claims. (Cl. 251—118)



1. A vacuum breaker comprising a casing formed with a vent opening, an inlet pipe having an enlarged and undercut end within the casing, an outlet pipe from the casing, and a flexible member fitting over the enlarged end of the inlet pipe and engaging the undercut portion thereof and adapted to be forced into a position to close the vent opening and to open the inlet pipe by pressure in the inlet pipe.

2,284,052
ROLLING CLOSURE STRUCTURE
William F. Heckman, Newport, and Ottis C. Haggard, Dayton, Ky., assignors to Higgin Products, Inc., Newport, Ky., a corporation of Delaware
Application December 22, 1939, Serial No. 310,512
12 Claims. (Cl. 156—39)



1. In combination in a spring roller housing, an end plate, a shaft adapted to extend through said end plate, a gear on the end of said shaft having engagement with said end plate, a worm mounted on said end plate for turning said gear, and means removably retaining said gear on said end plate, said means comprising a removable keeper for said gear, said end plate having a slot therein permitting withdrawal of said gear when said keeper is removed.

2,284,053
GAS MASK
Siegwart Hermann, New York, N. Y.
Application May 23, 1941, Serial No. 394,835
In France October 16, 1939
1 Claim. (Cl. 128—142)

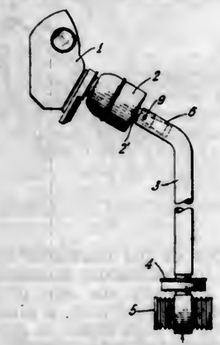
A gas mask comprising a main filter and an additional pre-cleaning filter both of them containing a poison-absorbing agent, a hose connecting said two filters, a pump for pressing air through said pre-cleaning filter, hose and main filter preferably to be operated by the wearer of the gas mask, said pump being placed before the pre-cleaning filter, and a valve giving access to the air from without placed in said hose directly

before its connection with the main filter, said valve being closed by the pressure of the air



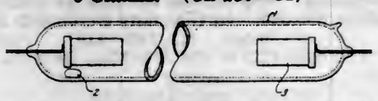
pumped through the filters and being opened when said pressure stops.

2,284,054
GAS MASK
Siegwart Hermann, New York, N. Y.
Application September 9, 1941, Serial No. 410,131
1 Claim. (Cl. 128—141)



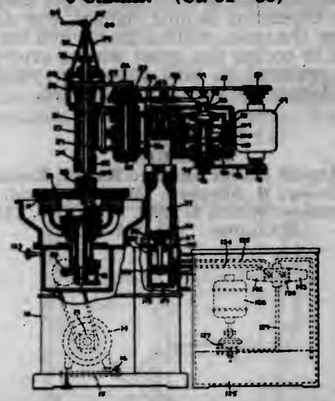
In a gas mask a respiratory system, comprising a main filter provided with an extension, a rubber hose drawn over said extension, a funnel inserted in the upper part of said rubber hose extending in the main filter, said extension and rubber hose being provided with holes forming a connection between the main filter and the air from without, a supplementary filter being connected with the main filter by said rubber hose and a pump for pressing air through the system placed before said supplementary filter.

2,284,055
LUMINESCENT GLASS
Magdalene Hüniger, Berlin-Charlottenburg, and Hans Panke, Berlin, Germany, assignors to General Electric Company, a corporation of New York
Application May 17, 1940, Serial No. 335,826
In Germany May 17, 1939
6 Claims. (Cl. 250—81)



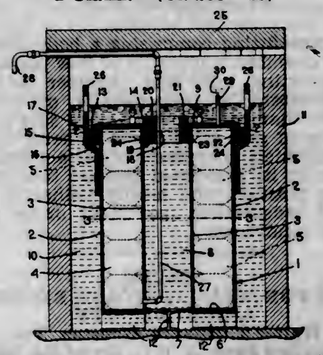
1. A luminescent phosphate glass emissive in the yellow to red spectral range under irradiation by ultraviolet rays, said glass containing, in addition to the usual ingredients of phosphate glass, up to about 25 per cent manganese oxide and up to about 15 per cent of the oxide of the trivalent cerium.

2,284,056
LAPPING MACHINE
Herbert S. Indge, Westboro, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application July 9, 1940, Serial No. 344,554
6 Claims. (Cl. 51—55)



1. In a lapping machine having a lapping head, a sleeve rotatably supported in said head, a spindle rotatably and eccentrically supported in said sleeve, means positively to rotate said sleeve, means slowly to rotate said spindle, said spindle being adapted to support a lapping wheel for a rotary and planetary movement, and a reciprocating lapping stick adapter comprising a tubular member adapted slidably to fit a cylindrical surface on said head, a reciprocable lapping stick holder on said adapter, a pair of spaced lapping sticks on said holder and means including a pitman carried by said spindle which is operatively connected with said holder to impart a compound reciprocatory movement to said holder and lapping sticks.

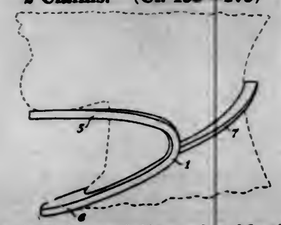
2,284,057
POT FOR USE IN HEAT TREATING BUNDLES OF WIRE
Charles D. Johnson, Worcester, Mass., assignor to Johnson Steel and Wire Company, Inc., Worcester, Mass., a corporation of Massachusetts
Application September 20, 1941, Serial No. 411,689
1 Claim. (Cl. 263—48)



A pot for use in heat treating wire, said pot comprising a body portion presenting inner and outer side walls forming between them an annular chamber to receive bundles of wire and a

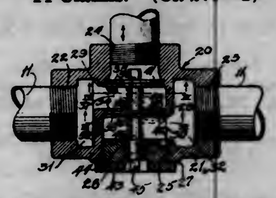
bottom member connecting said side walls, the space enclosed by the inner side wall being open at both top and bottom, said body portion having two annular open-topped sealing grooves at its upper end, one groove associated with the inner side wall and the other groove associated with the outer side wall, a cover for the pot body having two depending sealing flanges, one adapted to occupy the outer sealing groove and the other adapted to occupy the inner sealing groove, and sealing material in each groove in which the sealing flanges are partially submerged.

2,284,058
HEADREST
Henry Arnold Kaiser and Leo Kaiser, Ronan, and George R. Shepard, Missoula, Mont.
Application August 4, 1940, Serial No. 351,296
2 Claims. (Cl. 155—175)



2. A head rest consisting of a blank of resilient self-sustaining material of substantially elliptical annular form, said blank being adapted to be bent about its minor axis, the bent portions being adapted to be interposed between the chin and chest of the user, said blank being provided with means to prevent unintentionable displacement of the head rest when in use.

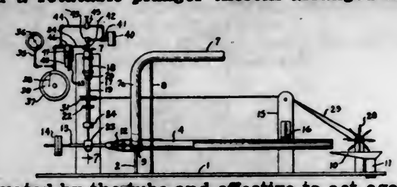
2,284,059
HEATING SYSTEM VALVE
Horace S. Kehm and Courtland G. Newton, Chicago, Ill.; said Newton assignor to said Kehm
Application September 14, 1940, Serial No. 356,760
14 Claims. (Cl. 277—1)



1. A pipe fitting comprising a body having an interior chamber, a plurality of flow passageways communicating with said chamber, adjustable valve members for proportioning outward flow from the chamber through two of said passageways, one of said valve members being mounted for independent movement under abnormal flow pressure in its associated passage to a pressure relieving position, and means resiliently opposing said independent movement under normal pressure conditions.

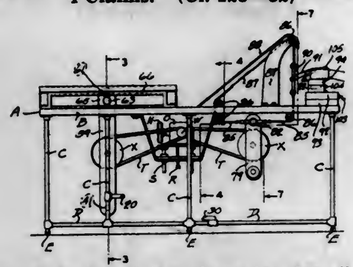
2,284,060
MEANS FOR MEASURING AND RECORDING LIQUID DENSITY
Walter T. Knauth, Houston, Tex.
Application June 16, 1941, Serial No. 398,190
5 Claims. (Cl. 265—44)

1. A device of the character described comprising a balance tube forming a flow conduit for liquid and mounted to oscillate in an approximately vertical plane in accordance with variations in the density of liquid flowing through the tube, a gauge, means including a liquid filled cylinder and a rotatable plunger therein arranged to be



actuated by the tube and effective to act against the liquid in the cylinder to actuate the gauge to indicate said variations and means for rotating the plunger while it is so actuated.

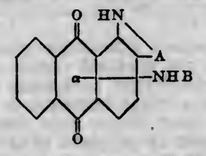
2,284,061
MECHANICAL EXERCISING DEVICE
Henry C. F. Korte, St. Louis, Mo.
Application April 24, 1939, Serial No. 269,632
4 Claims. (Cl. 128—52)



4. In a device of the character described, an arm mounted for oscillatory movement, a member mounted adjacent one end of a said arm and connected with said arm, a motor, a reduction gear driven by said motor, a driven member comprising inner and outer shafts operable by said reduction gear, a third shaft provided with threads and geared to the inner shaft, a connection between the third shaft and the arm comprising a slidable member in said arm having a threaded lip projecting therefrom for threaded connection with said third shaft whereby oscillatory movement is imparted to said arm, and means for varying the stroke of said arm, said means comprising the inner rotatable shaft connected with said third shaft, the inner shaft capable of being rotated independently of the outer shaft whereby the stroke of said arm may be varied.

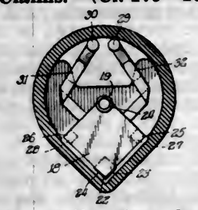
2,284,062
VAT DYESTUFFS OF THE PHTHALOYL CARBAZOLE SERIES
Walter Mieg, Opladen, and Franz Wieners, Cologne-Stammheim, Germany, assignors to General Aniline & Film Corporation, a corporation of Delaware
No Drawing. Application October 14, 1939, Serial No. 299,520. In Germany October 6, 1938
9 Claims. (Cl. 260—316)

1. The dyestuffs of the following formula



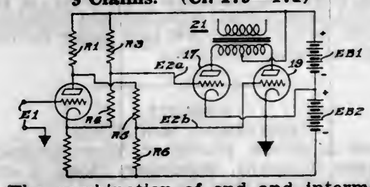
wherein A stands for an arylene radical containing no more than two rings selected from the group consisting of phenylene and naphthalene radicals, B stands for an aroyl radical selected from the group consisting of benzoyl and naphthoyl radicals substituted in o-position by halogen and being otherwise unsubstituted, and α indicates that the grouping —NHB is linked directly with the anthraquinone nucleus in α-position.

2,284,063
RECEIVER
Hugo G. Modine, Chicago, Ill., assignor to Otarion, Inc., Chicago, Ill., a corporation of Illinois
Application April 4, 1940, Serial No. 327,788
9 Claims. (Cl. 179—107)



1. In a device of the class described, a diaphragm, a twister type crystal driving element having a driving portion, resilient leg members for mounting said driving element, one of said leg members being larger than any other leg, the leg of the largest area being positioned opposite the driving portion of said crystal element, stiffening means for said leg member of largest area, a diaphragm, and means for connecting the driving portion of said crystal element to said diaphragm.

2,284,064
AMPLIFIER
Adolph R. Morgan, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 25, 1941, Serial No. 375,893
9 Claims. (Cl. 179—171)



8. The combination of end and intermediate power supply terminals, a pair of direct current circuits including reversely arranged impedance sections connected in parallel between said end terminals, means for similarly varying the current through one pair of the opposite end sections of said circuits, and means connected between said intermediate terminal and the other opposite end sections of said circuits for deriving voltages displaced in phase from one another.

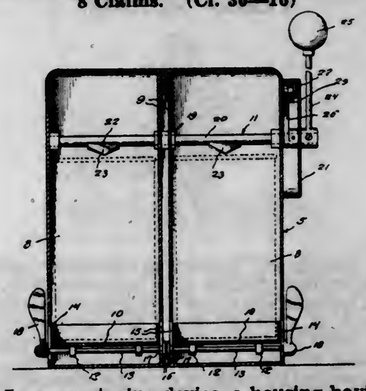
2,284,065
PLASTICIZED WAXES
Robert J. Myers, Elkins Park, Pa., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa.
No Drawing. Application November 16, 1939, Serial No. 304,699
7 Claims. (Cl. 106—270)

1. A composition of matter comprising a wax having dispersed therein a polyvalent metal salt of an acid having the formula

$$R—O—C_nH_{2n}—COOH$$

wherein R is an aryl group, hydrocarbon-substituted with at least five carbon atoms, at least four of which are in the same substituent group, and n is a whole number less than six, said salt being soluble in said wax.

2,284,066
PUNCTURING DEVICE FOR CONTAINERS
Dezell Ostrander, Coco Solo, Canal Zone
Application December 6, 1941, Serial No. 421,987
8 Claims. (Cl. 30—16)

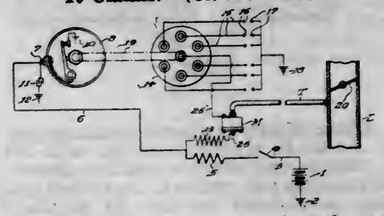


1. In a puncturing device, a housing having an entrance to permit containers to be placed therein and removed therefrom, means for supporting said containers in the housing, and a manually operated puncturing means carried by the housing for simultaneously puncturing each container.

2,284,067
MERCURATED ALIPHATIC ALCOHOLS
Anderson W. Ralston and Miles R. McCorkle, Chicago, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application November 4, 1938, Serial No. 238,889
7 Claims. (Cl. 260—431)

1. Mercurated aliphatic alcohols having the formula RCH_2OH wherein R is a straight chain alkyl radical having at least five carbon atoms and having one of the group consisting of hydroxy and lower molecular weight alkyloxy attached to one carbon atom and having mercury attached to an adjacent carbon atom and to a radical of a soluble monobasic acid.

2,284,068
IGNITION SYSTEM OF INTERNAL COMBUSTION ENGINES AND METHOD OF CONTROLLING THE SPARK
Henry H. Roberts, Jr., Philadelphia, Pa.
Application March 8, 1941, Serial No. 382,296
10 Claims. (Cl. 123—148)



1. The combination with an internal combus-

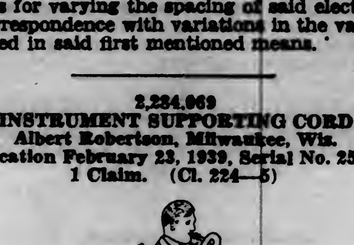
tion engine comprising means through which the explosive mixture is drawn to the cylinders and an ignition circuit, of spark gap forming means having relatively movable electrodes interposed in the secondary of said circuit and means for varying the spacing of said electrodes in correspondence with variations in the vacuum induced in said first mentioned means.

2,284,069
INSTRUMENT SUPPORTING CORD
Albert Robertson, Milwaukee, Wis.
Application February 23, 1939, Serial No. 257,791
1 Claim. (Cl. 224—5)



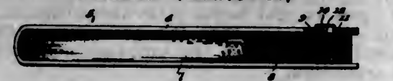
An instrument supporting member, comprising an endless flexible cord constructed to present a variable size upper loop adapted to encircle the neck of a player, and a pair of variable size lower loops of different lengths, a securing and adjusting member through which portions of the cord pass and movable to vary the effective length of the cord as well as the sizes of the several loops, a connector between the separated depending portions of the lower loops and slidably connected with both of the same to keep the difference between the lengths of said lower loops, when said loops are stretched as by supporting an instrument, within a predetermined maximum amount, and an instrument carrying hook slidably depended from a lower portion of each of said lower loops and attached to opposite ends of said connector, said hooks being normally maintained at elevations differing by the length of the connector through cooperation between said connector and said adjusting member.

2,284,070
ANGULAR ADJUSTMENT MECHANISM FOR ALIGNED SHAFTS
Robert M. Roof, Anderson, Ind., assignor of one-half to Neel M. McCullough, Anderson, Ind.
Application May 29, 1941, Serial No. 395,700
7 Claims. (Cl. 287—1)



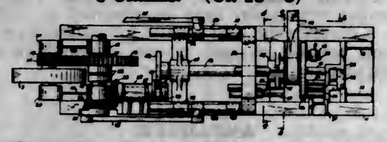
5. A pair of axially aligned shafts, a gear rigid with one shaft, a pinion meshing with the gear and rollable and slidable relative thereto, and means locking said pinion to said other shaft for locking said shafts together in angularly adjusted relation.

2,284,071
SHEET SEPARATOR
Stewart K. Sayles, Meriden, Kans.
Application January 2, 1941, Serial No. 372,920
1 Claim. (Cl. 206—57)



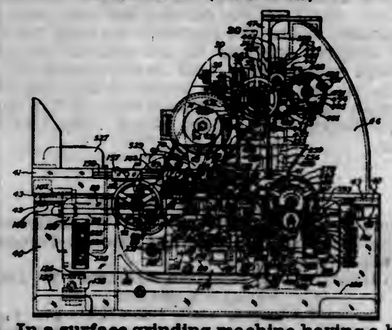
In a cigarette paper book, a pack of separable cigarette papers, a cover for said pack of papers including hingedly connected substantially rigid cover panels and one of said panels having an opening adjacent one corner thereof, a suction element of cup formation positioned in said opening and having the mouth thereof disposed next to the pack of papers, said suction element protruding a limited distance beyond an outer face of the last mentioned panel to be manually compressed for displacing air therefrom to bring about securing of a cigarette paper to said latter-named panel for movement therewith and away from the pack of papers, and a marginal flange formed on the suction element about the mouth thereof to provide a surface for the cigarette paper to contact and secured to an inner face of the latter-named panel to prevent displacement of the suction element from the opening.

2,284,072
TAMPING MACHINE
Alfred Schmidt, Weehawken, N. J.
Application April 6, 1939, Serial No. 266,406
3 Claims. (Cl. 18—5)



1. In a tamping machine, an intermittently rotatable shaft, a turret on said shaft having molds therein for forming bobbins, means for pushing bobbins out of said molds during that period when the turret is stationary, a pulley mounted on said shaft adjacent said turret, and a conveyor belt engaged over said pulley for receiving said discharged bobbins.

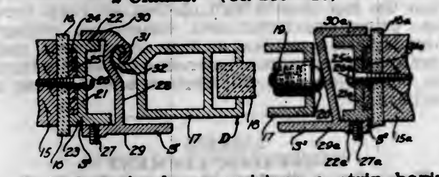
2,284,073
GRINDING MACHINE
Herbert A. Silven, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application March 27, 1940, Serial No. 326,224
19 Claims. (Cl. 51—92)



1. In a surface grinding machine having a base,

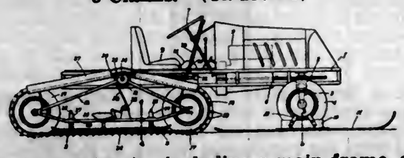
a longitudinally reciprocable table thereon, a vertically movable slide, a transversely movable slide on said vertical slide, a rotatable grinding wheel on said transversely movable slide, means automatically to reciprocate said table, means intermittently to feed or index the wheel slide transversely at the end of a reciprocatory stroke of the table, means actuated in timed relation with the transverse indexing movement of the wheel slide automatically to feed the vertical slide downwardly after each cross traverse of the wheel slide, and an electrically actuated cycle control mechanism automatically to stop the grinding operation after a work piece has been ground to the desired extent.

2,284,074
ADJUSTABLE JAMB FOR SHOWER STALL DOORS
William Stahl, Los Angeles, Calif., assignor to John M. Stahl, Los Angeles, Calif.
Application July 1, 1939, Serial No. 282,455
2 Claims. (Cl. 189—46)



1. A door jamb, comprising; a strip having spaced flanges; a second strip having spaced flanges between which the said flanges of the first mentioned strip are received to allow adjustment of said second strip laterally on the first strip; and fastening elements carried by one of said flanges of the second strip and engaging the confronting flange of the first mentioned strip for securing the second strip in adjusted position laterally on the first strip.

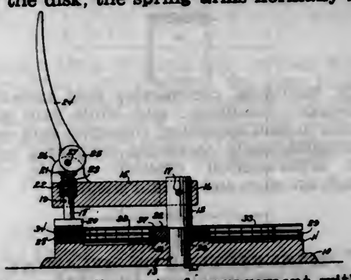
2,284,075
SNOW TRACTOR
Emmitt M. Tucker, Emmitt M. Tucker, Jr., and Joseph M. Tucker, Huntington Park, Calif.
Application February 12, 1941, Serial No. 378,556
8 Claims. (Cl. 180—5)



1. A snow tractor including a main frame, circular longitudinally spaced members on each side of the frame, means mounting the members in connection with the frame, an endless traction device supported from the members and including side chains and an intermediate drive chain, all said chains passing about and engaging the members, and cross chains extending between said side chains and the drive chain; and a driven sprocket engaging said drive chain.

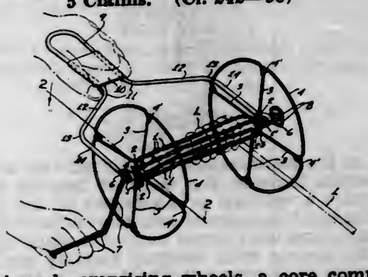
2,284,076
METAL SIGN PRESS
Eber G. Van Buren and Ross F. Jackson, Vanderbilt, Mich.
Application May 13, 1941, Serial No. 393,270
1 Claim. (Cl. 101—18)

A metal sign press comprising, a base having an annular shoulder on its upper side forming an anvil, a post secured to the base at the center of the annular anvil, a resilient disk rotatably mounted on the post supported at its center on the base and disposed at its outer portion out of contact with the anvil, a plurality of male dies secured to the upper surface of the disk above the anvil, a relatively thick washer removably secured to the top surface of the disk and rotatably mounted on the post, spring arms extending radially from the washer and removably secured at the inner ends to the washer, female dies secured to the undersides of the outer portions of the spring arms above the male dies of the disk, the spring arms normally hold-



ing the female dies out of engagement with the male dies, the disk and spring arms and the washer being adapted to be turned as a unit, an arm fixed to the top of the post and extending parallel with the base and terminating beyond the spring arms, a lever having an eccentric disk cam pivoted on the outer end of the arm, and a spring retracted push rod slidably mounted in the arm and projecting above and below the arm to be forced by said cam to deform the spring arms and disk against the anvil for embossing a character on a metal sheet which may be interposed between the male and female dies.

2,284,077
REEL
James Wallace, St. Louis, Mo.
Application November 4, 1940, Serial No. 364,130
5 Claims. (Cl. 242—96)

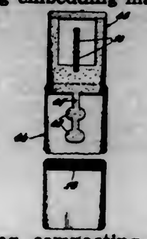


1. A reel comprising wheels, a core composed of a plurality of wires, some of said wires being extended to form the spokes of said wheels, and other of said wires being extended through bearings to form a rotatable handle on one side of said reel and retaining portions at the opposite side of said reel, said core being rotatable with said handle, and a carrying handle associated with said bearings.

2,284,078
METHOD OF MAKING ELECTRICAL HEATING UNITS
Edwin L. Wiegand, Pittsburgh, Pa.
Application August 28, 1939, Serial No. 292,273
14 Claims. (Cl. 201—64)

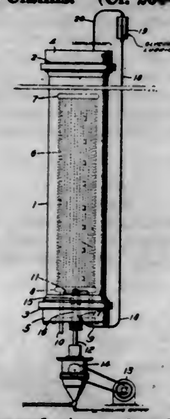
2. The method of making a relatively long,

relatively small cross-section, tubular sheath, embedded resistor, electric element, which comprises: constructing a correspondingly relatively long and relatively small cross-section composite core comprising embedding material and resistor



means, including, compacting said material into press-caked condition; and while said material remains in said condition, inserting said core into a correspondingly relatively long and relatively small cross-section tubular sheath, endwise through an open end of said sheath.

2,284,079
MANUFACTURE OF MELAMINE
Andrews C. Wintringham, Glen Ridge, and Victor L. King, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application May 28, 1941, Serial No. 395,586
3 Claims. (Cl. 260—248)



1. In the manufacture of melamine by a process which includes the steps of heating in an autoclave a solution of a member of the group consisting of cyanamide and dicyandiamide in a solvent comprising liquid ammonia while agitating the charge by a rotating agitator and subsequently discharging the contents of the autoclave into a body of water, the improvement which consists in lubricating the agitator bearing by applying thereto a water-soluble lubricant.

2,284,080
MOTOR FUEL ADJUVANT
William J. Backoff, Norman D. Williams, John F. O'Loughlin, Harry L. Moir, and John S. Yule, Chicago, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
No Drawing. Application October 6, 1938, Serial No. 233,612
9 Claims. (Cl. 44—9)

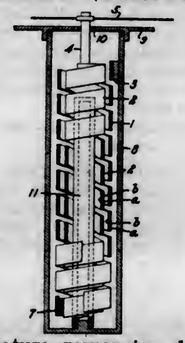
1. A composition for use as a gum solvent comprising 50% to 90% refined mineral oil boiling above the boiling range of kerosene and 50% to 10% of a mixture of esters of phthalic and benzoic acids, which esters boil above 350° F.

2,284,081
LOCK NUT
Alan H. Beggs, Montclair, N. J., assignor to The Palnut Company, Inc., Irvington, N. J., a corporation of New Jersey
Application April 25, 1939, Serial No. 269,841
5 Claims. (Cl. 151—14)



1. A lock-nut made integrally from sheet metal, said nut comprising an upstanding continuous side wall portion having wrench-engaging flats the side edges of which are in substantial parallelism, a top portion extending inwardly from the top of said wall portion, said top portion being apertured and formed to engage threads with a resilient locking engagement, and a bottom flange portion extending outwardly from the bottom of said wall portion and forming a washer.

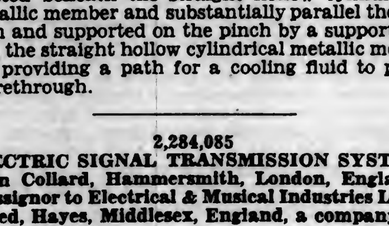
2,284,082
BIMETALLIC ELEMENT
Franz Georg Bloch, Le Sentier, Switzerland
Application July 8, 1939, Serial No. 283,511
In Czechoslovakia May 30, 1938
2 Claims. (Cl. 297—16)



1. A temperature responsive device comprising a plurality of concentric helical coils of bimetallic strip material wound in the same sense and with the component metals of the strip material reversely arranged in said coils, a shell enclosing said coils, means securing an end of one coil to said shell, means mechanically connecting the other end of that coil to an end of another coil, a member connected to the second end of said other coil, and a body of low heat capacity and high thermal conductivity enclosed within said shell and located within the innermost of said coils and in good heat transfer relation to said shell.

2,284,083
INVERSE FEEDBACK AMPLIFIER SYSTEM
Donald S. Bond, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application October 31, 1939, Serial No. 302,195
1 Claim. (Cl. 179—171)

An audio frequency amplifier comprising, in combination, a balanced power output stage including an input transformer and an output transformer provided with a center tap, a driver stage coupled to said first-named stage, an output circuit for said driver stage including the primary of said input transformer and a connection on the primary of said output transformer in spaced relation to the center tap



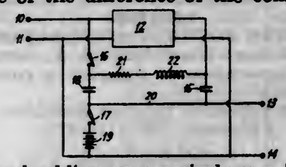
thereon, whereby at least a portion of said output transformer primary is included in said driver stage output circuit for establishing a predetermined degree of inverse feedback in said amplifier, and means included in shunt with another portion of said output transformer primary on the opposite side of said center tap for balancing the load on the output transformer.

2,284,084
GLOW DISCHARGE LAMP
Don Canady, Cleveland, Ohio
Application December 9, 1940, Serial No. 369,253
1 Claim. (Cl. 176—122)

In a glow-discharge lamp, the combination with a sealed vessel containing a gas charge, electrodes therefor, one of the said electrodes being a straight hollow cylindrical metallic member having its longest dimension disposed transversely of the sealed vessel and having its ends extending beyond the sealed vessel, of a companion electrode having an opening therein and located beneath the straight hollow cylindrical metallic member and substantially parallel therewith and supported on the pinch by a supporting rod, the straight hollow cylindrical metallic member providing a path for a cooling fluid to pass therethrough.

2,284,085
ELECTRIC SIGNAL TRANSMISSION SYSTEM
John Collard, Hammersmith, London, England, assignor to Electrical & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain
Application October 26, 1939, Serial No. 301,324
In Great Britain October 19, 1938
15 Claims. (Cl. 178—7.3)

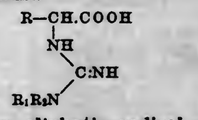
1. In a television system having video signals combined with interspersed synchronizing impulses and in which direct current and low frequency components of the video signals are suppressed which combined signals and impulses are subjected to distortion in transmission, the method of correcting signals representative of the suppressed components derived from the synchronizing signals at a receiving point which includes the steps of receiving the combined signals and impulses, comparing the received synchronizing impulses with each other, deriving energy representative of the difference of the compared im-



pulses, and adding progressively varying energy to the received signals during the time interval between the synchronizing impulses, the variation of the energy being between the limits of zero and a maximum value proportional to the difference between the compared impulses.

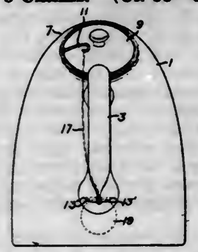
2,284,086
DETERGENT COMPOSITION
Walter P. Ericks, Cos Cob, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application May 9, 1939, Serial No. 272,647
4 Claims. (Cl. 252—117)

4. A detergent composition comprising a compound of the formula



in which R is an aliphatic radical containing more than three carbon atoms and R_1 and R_2 are members of the group consisting of hydrogen and aryl, alkyl and hydroxyalkyl radicals, and a water-soluble soap.

2,284,087
TEAPOT
Henry C. Ferguson, San Francisco, Calif.
Application April 16, 1940, Serial No. 329,896
3 Claims. (Cl. 53—3)



1. In combination, a teapot and a lid having an interior recess large enough to receive a tea bag, said lid having a radially extending slot provided with a terminal recurved portion therein extending laterally with respect to the radial direction of the slot, said slot adapted to permit the insertion of the cord of a tea bag through the peripheral edge of the slot, and a catch positioned on the lower portion of the teapot and adapted to retain a tag secured to said cord, comprising a projection having an intermediate slot for receiving the tag end of the cord, said recurved portion forming a retaining means for the cord, whereby the tag end may be locked in

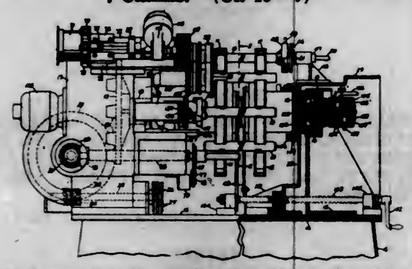
position in said intermediate slot and said lid may be rotated, to compensate at all times for unusual length of the cord and maintain the bag within the lid.

2,284,088
MOUNTING PIEZOELECTRIC ELEMENTS
Paul D. Gerber, Woodlynne, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 29, 1939, Serial No. 311,615
8 Claims. (Cl. 171—327)



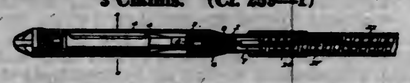
5. In combination, an electrode comprising a base portion and a multiplicity of spaced crystal-supporting metal risers thereon which terminate in a common plane, and a second electrode mounted above the plane of said first-mentioned electrode out of contact with said crystal.

2,284,089
GLASS TUBE RESHAPING APPARATUS
Clarence E. Hahn, Euclid, and John Salo, Cleveland, Ohio, assignors to General Electric Company, a corporation of New York
Application October 20, 1939, Serial No. 300,382
7 Claims. (Cl. 49—7)



1. Apparatus for reshaping the ends of a vitreous tube comprising gripping means for holding and positioning the tube, a carrier for supporting said gripping means and advancing said tube into each of a plurality of stations in turn, burners located at a plurality of stations for heating the ends of the tube to a plastic condition, independent actuating means for moving at least one of said burners at each end of the tube to and from operative relation to the corresponding tube end as it is indexed into the station occupied by the burner, means for rotating said last-mentioned burner to cause it to heat the ends of the tube evenly, and means located adjacent said carrier at a succeeding station for reshaping said ends.

2,284,090
FLEXIBLE SHAFTING
Clarence F. Hotchkiss, Jr., Binghamton, N. Y., assignor to Stow Manufacturing Company, Inc., Binghamton, N. Y.
Application November 24, 1941, Serial No. 420,289
3 Claims. (Cl. 259—1)

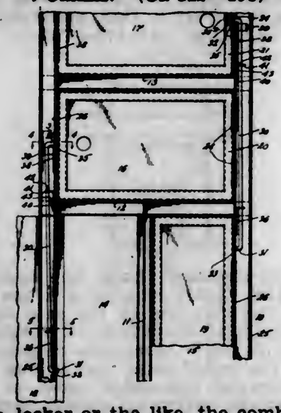


1. A flexible shaft for a concrete vibrator having an eccentric weight adapted to be rotated by a flexible shaft, said shaft being formed of a spirally wound wire encased in an outer casing, the combination therewith of a connection fitting secured to the driven end of the shaft, the portion of the said shaft adjacent the said fitting being laterally distorted in a direction opposite that of the direction of normal distortion of said shaft.

2,284,091
PHONOGRAPH RECORD
James H. Hunter, Lansdowne, Pa., assignor to Radio Corporation of America, a corporation of Delaware
No Drawing. Application May 31, 1938, Serial No. 211,082
5 Claims. (Cl. 106—37)

1. The method of incorporating into shellac protein derived from corn which comprises first incorporating the protein into a resinous composition consisting essentially of oxidized abietic acid, and then incorporating the product of said first incorporation into the shellac.

2,284,092
LOCKING MEANS FOR LOCKERS AND THE LIKE
Carl A. Johnson, Celoron, and John A. Greenfield, Jamestown, N. Y., assignors to Art Metal Construction Company, Jamestown, N. Y.
Application March 7, 1940, Serial No. 322,776
7 Claims. (Cl. 312—193)

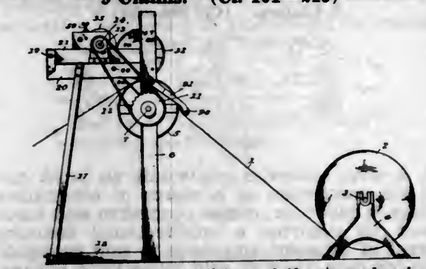


5. In a locker or the like, the combination of a door, a post to which the door is hinged, a second door arranged with one edge thereof adjacent said post when the door is closed, a locking rod extending lengthwise in said post with one end projecting into position to be moved by the closing of the door that is hinged to said post to project the other end of the rod into locking engagement with said second door, a bracket secured in said post in which said rod fulcrums, and a spring acting between said rod and said post for normally holding the locking end of said rod out of locking position.

2,284,093
METHOD OF IDENTIFICATION AND ARTICLE PRODUCED THEREBY
Arthur W. Jordan, Pittsburgh, Pa., assignor to Shade Control, Inc., a corporation of Delaware
No Drawing. Application February 4, 1939, Serial No. 254,709
7 Claims. (Cl. 41—26)

1. A method of marking wall paper with information as to its manufacture which includes impressing on the surface of the paper to be subsequently coated with adhesive and applied to a wall the desired information with a fast drying, water soluble and non-penetrating marking material.

2,284,094
MACHINE FOR RECORDING DATA ON WALLPAPER
Arthur W. Jordan, Washington, D. C., assignor to Shade Control, Inc., a corporation of Delaware
Application August 3, 1939, Serial No. 288,233
9 Claims. (Cl. 101—219)



1. In a printing machine of the type having a support for a reel of paper stock, a pair of feed rolls between which the said stock is drawn and wherein one of said rolls is positively driven, while the other of said rolls is rotated by frictional contact therewith, the combination therewith of resilient impression members having printing surfaces of generally conical cross-section secured to the said frictionally driven feed roll, a parallel color applying roll mounted adjacent the frictionally driven feed roll adapted to contact only the extreme outer end portions of the said printing surfaces, a driven brush lying adjacent and parallel to said color applying roll and a color supply trough mounted beneath said brush.

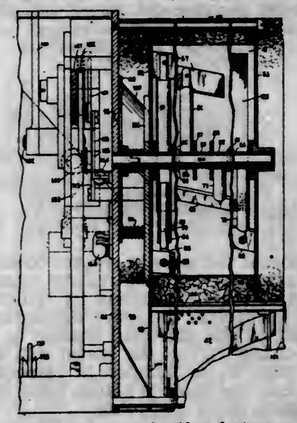
2,284,095
IMPRESSION MEMBER
Arthur W. Jordan, Pittsburgh, Pa., assignor to Shade Control, Inc., a corporation of Delaware
Application March 21, 1940, Serial No. 325,253
4 Claims. (Cl. 101—379)



1. A compressible printing member comprising a continuous base section having a plurality of raised tapered resilient portions thereon defining the general contour of the character of the printing member, and continuous apical outer ends formed on said raised tapered portions, the outer points of said ends being the printing surface.

2,284,096
ROASTING APPARATUS
Harold J. Kennedy, Larchmont, N. Y.
Application January 5, 1938, Serial No. 183,415
16 Claims. (Cl. 34—56)

3. Roasting apparatus, comprising a chassis embodying an upright plate with an opening provided therein, a stationary roasting cylinder and a rotatable cooling cylinder mounted at one side of the plate, the former above the latter and having two openings, one of which is adapted to receive a charge through the opening in the plate and the other adapted for discharge of said charge to the cooling cylinder, means located within the roasting cylinder for agitating raw material, means to provide a heated atmosphere within the roasting cylinder to heat therein a charge of raw material, a measuring hopper for raw material located at the opposite side of said plate above the associated plate and roasting cylinder openings and having an outlet communicating with the former opening, means for interrupting free communication between the associated openings of the plate and roasting cylinder and for controlling the other opening of said roasting cylinder, together with mechanism carried by the plate at the measuring hopper side thereof for operating said interrupting means to afford communication alternatively through one or the other of the said roasting cylinder openings.



2,284,097
CONTINUOUS ELECTRICAL OUTLET
Nicholas La Jone, Sr., Chicago, Ill.
Application July 20, 1939, Serial No. 285,491
1 Claim. (Cl. 173—334.1)

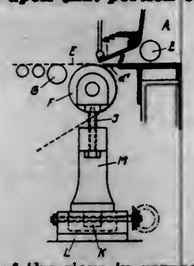


An electrical outlet comprising, in combination, a body in the form of an elongated rubber strip having parallel slots opening in one face thereof, electrical conductors in said slots, and complementary interfitting ribs and grooves on opposite sides of the slots adjoining the open faces of the slots arranged yieldingly to close said slots.

2,284,098
PAPER MAKING MACHINE
Richard T. Lang, Heidenheim-on-the-Brenz, Germany, assignor to American Voith Contact Co. Inc., New York, N. Y., a corporation of New York
Application August 19, 1936, Serial No. 96,838
In Germany August 19, 1935
3 Claims. (Cl. 92—44)

1. In a high speed paper making machine, having a breast roll and a sieve passing over the same, the combination of a stationary open stock box with a nozzle fixed thereto at its lowermost end in which the lower lip is stationary and the

upper lip is pivotally movable to vary the depth of the stock jet formed thereby, the stock being nevertheless at a constant inclination to the horizontal, means for moving the breast roll vertically and horizontally for inclining the sieve immediately after passing over the breast roll in respect to the stock jet, in its forward movement, for regulating the position of impingement of said stock jet upon that portion of the sieve and



the direction of the sieve in respect to said stock jet, and a supporting roll resting against the lower part of the sieve during its return movement for tensioning the sieve depending upon the amount of the aforesaid change in the inclination of the wire at the breast roll, whereby the sieve may be so inclined in respect to the stock jet that the stock is placed upon the sieve without piling up or cascading.

2,284,099
DOOR LOCK
Gabriel Madland, Chicago, Ill., and Richard A. Lehnhoff, Hammond, Ind., assignors to The Youngstown Steel Door Company, Cleveland, Ohio, a corporation of Ohio
Application September 13, 1939, Serial No. 294,658
5 Claims. (Cl. 292—284)

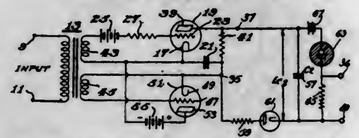


1. A lock for sliding doors comprising a lock bracket adapted to be secured to a relatively stationary member, a tapered locking pin slidably mounted on said lock bracket, a locking member adapted to be mounted upon a door slidably associated with said relatively stationary member, said locking member including front, side and rear walls defining an aperture, one of said side walls and a side of said pin being similarly inclined, said pin extending through said aperture when said locking member and pin are operatively associated, the inclined side of said pin abutting said inclined side wall and the other side of said pin abutting said lock bracket, the inclined side of said pin and said inclined wall being obtuse to said rear wall, said pin being biased downwardly by the action of gravity for the purpose set forth.

2,284,100
NONFIBROUS FILMS
Frederick M. Meigs, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 27, 1937, Serial No. 145,151
20 Claims. (Cl. 260—27)

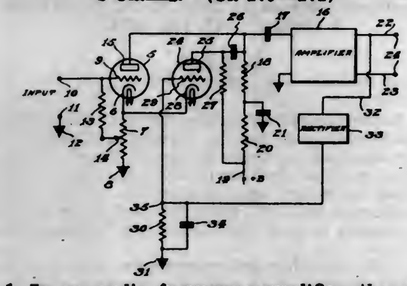
4. A moistureproof transparent self-sustaining polyvinyl alcohol film comprising polyvinyl alcohol, 3% to 4.5% wax, 4.5% to 12% of plasticizer consisting of higher alcohol half ester of dicarboxylic acid and 10% to 25% of basic soluble blending agent taken from the class consisting of modified rosin, rosin and hydrogenated rosin.

2,284,101
IMPULSE GENERATOR
Ben White Robins, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application February 29, 1940, Serial No. 321,547
2 Claims. (Cl. 250—36)



2. A wave converter comprising an input circuit for connection to a source of alternating voltage, a capacitor, means coupled to said input circuit for applying a unidirectional charging current of constant amplitude to said capacitor once for each cycle of said alternating voltage, means also coupled to said input circuit and controlled by said alternating voltage for discharging said capacitor through an impedance once for each cycle of said alternating voltage, a unidirectional conductor and a second capacitor serially connected across said impedance for applying a unipotential charging impulse to said second capacitor for each cycle of said alternating voltage, and means for discharging said second capacitor after a predetermined number of charging impulses have been applied to said second capacitor.

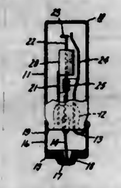
2,284,102
INVERSE FEEDBACK AMPLIFIER
Charles A. Rosencrans, Sewell, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 29, 1939, Serial No. 311,620
3 Claims. (Cl. 179—171)



1. In an audio frequency amplifier, the combination of an amplifier tube having a signal input grid, an anode and a cathode, means providing a feedback impedance in circuit with the cathode, means providing a connection with said last-named impedance for the signal input grid for applying a biasing potential thereto, an output coupling impedance in circuit with the anode, a second amplifier tube having an anode coupled to the anode end of said coupling impedance and having a cathode connected with the cathode of said first-named amplifier tube, a control grid for said second amplifier tube,

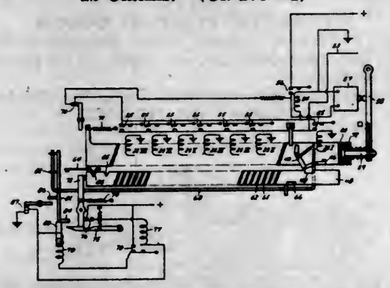
means for applying a biasing potential thereto, means responsive to variations in signal amplitude in said amplifier for varying said potential to control the relative potential drop in said coupling impedance and in said inverse feedback impedance, and to vary the inverse feedback to said first named amplifier tube and the gain of said amplifier.

2,284,103
THERMAL SWITCH
Wayne C. Smitley, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application September 20, 1939, Serial No. 295,801
8 Claims. (Cl. 250—27.5)



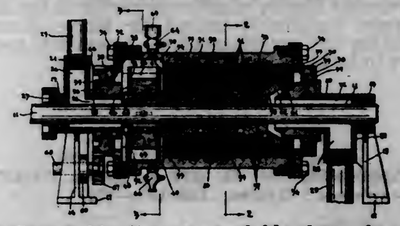
1. A thermal switch comprising a hermetically sealed envelope containing an ionizable gaseous filling, an electrode mounted within said envelope, a second electrode comprising a bimetallic element mounted within said envelope in close proximity to but spaced from said first-mentioned electrode, one of said electrodes having a coating of electron-emissive material thereon, said bimetallic element being supported at one end only and being provided at its other free end with a switch contact, a stationary contact member within said envelope extending into close proximity to and disposed in the path of movement of said switch contact, and a high resistance element electrically connected to and between said first-mentioned electrode and said stationary contact member.

2,284,104
SINGLE CHANNEL ADAPTER FOR MULTIPLEX SYNCHRONOUS PRINTERS
James A. Spencer, Teaneck, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 10, 1940, Serial No. 318,234
12 Claims. (Cl. 178—4)



1. In an electrical printing telegraph system for multi-unit equal length code characters, a printer having a selector magnet for each code unit, a rotatable adapter shaft, a switch in the circuit of the coil of each magnet, a latch normally holding each switch open, means operated by said shaft for releasing the latches successively at uniform time intervals in a continuous cycle, supports normally holding said switches open, and additional means operated by said shaft for releasing said supports.

2,284,105
MACHINE FOR THE EXTRACTION OF GOLD AND OTHER MINERALS
Sterling Stageberg, Minneapolis, Minn., assignor to Wesley Styles, Minneapolis, Minn.
Application September 28, 1940, Serial No. 358,763
11 Claims. (Cl. 209—200)

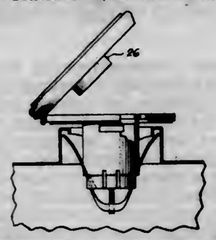


1. In combination, a revoluble drum for the reception of a quantity of mercury having a substantially horizontal axis, a rotor within the drum, said rotor being eccentrically disposed within said drum and dipping partly into the mercury on one side and being free from the mercury on the other side, means for rotating the rotor, means for feeding ore into the drum, said rotor serving to immerse the ore into the mercury, and means for removing the residue from the drum.

2,284,106
PROCESS FOR TREATING PETROLEUM OIL EMULSIONS
Bert A. Stagner, Long Beach, Calif.
No Drawing. Application October 3, 1939, Serial No. 297,712
10 Claims. (Cl. 252—330)

1. The process of treating mineral oil materials containing refractory water-in-oil emulsions of the types present in tank bottoms and/or in used lubricating oils comprising mixing therewith a strong aqueous reagent consisting of commercial sodium silicate and caustic soda in proportions such that in the mixture the ratio of sodium oxide to silicon dioxide is not less than about .7.

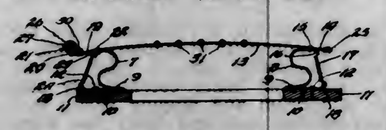
2,284,107
THIEFPROOF CAP FOR TANKS
Edward J. Sullivan, Los Angeles, Calif., assignor to 7-Star Corporation, Hollywood, Calif., a corporation of California
Application September 12, 1938, Serial No. 229,434
5 Claims. (Cl. 220—86)



1. In a thief-proof tank cap for a liquid tank having a neck with an inner flange, the combination of an inner cap to seat on the end of the neck and having a sleeve extending down into

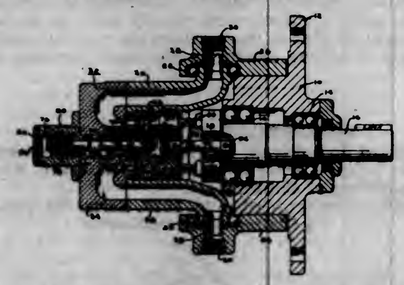
the neck, said sleeve constructed at its lower end in the form of a grill to permit passage of liquid downwardly for filling the tank but operating as a bar to prevent a tube from being passed down through the sleeve, an expansible locking member having upwardly extending fingers formed of flexible material capable of flexing inwardly to pass the flange of the neck; the ends of said fingers operating to engage the under side of the flange; and a rotatable member with a thread connection operatively connecting the same to the sleeve and to the fingers for drawing the expansible locking member upwardly in the neck to force the fingers against the flange, thereby effecting the expansion of the expansible members to lock the same under the flange.

2,284,108
SPRING SEAT
Joseph R. Thomas, Chicago, Ill.
Application May 29, 1939, Serial No. 276,457
16 Claims. (Cl. 155—179)



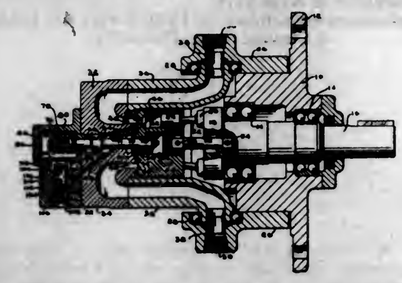
1. A seat spring structure comprising assembled units each having upright leaf springs spaced apart and secured at the bottoms, and a resilient strap connecting them at the tops, the end of one spring extending beyond the adjacent end of the connected strap providing a more resilient support and resilient tie members connected at the upper ends to the springs and secured to a supporting base at the bottoms thereof.

2,284,109
HYDRAULIC PUMP OR MOTOR
Harry F. Vickers, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application June 28, 1939, Serial No. 281,646
4 Claims. (Cl. 103—162)



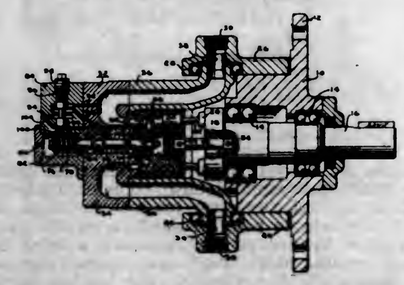
1. In a fluid pressure energy translating device having a plurality of cylinders and pistons reciprocable therein, a rotary valve structure comprising two relatively rotatable members provided with flat, annular, sealing surfaces in running engagement and containing fluid distributing ports communicating with said cylinders, one of said members having an area exposed to fluid pressure from said cylinders tending to urge said members into abutment with force proportional to said pressure, means forming a chamber for collecting leakage from said valve, a restricted conduit for draining said chamber, said chamber lying between said conduit and the fluid distributing ports, and means including a fluid motor communicating with said chamber and connected to one of said members and responsive to pressure variations in said chamber for varying the total force applied to said one member.

2,284,110
HYDRAULIC PUMP OR MOTOR
Harry F. Vickers, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application June 28, 1939, Serial No. 281,647
6 Claims. (Cl. 103—162)



1. In a fluid pressure energy translating device having a plurality of cylinders and pistons reciprocable therein, a rotary valve structure comprising two relatively rotatable members provided with flat, annular, sealing surfaces in running engagement and containing fluid distributing ports communicating with said cylinders, one of said members having an area exposed to fluid pressure from said cylinders tending to urge said members into abutment with force proportional to said pressure, means forming a chamber for collecting leakage from said valve, a restricted conduit for draining said chamber, said chamber lying between said conduit and the fluid distributing ports, means including a fluid motor communicating with said chamber and connected to one of said members and responsive to pressure variations in said chamber for varying the total force applied to said one member, and means for limiting the flow through said conduit to a predetermined maximum irrespective of leakage from said valve.

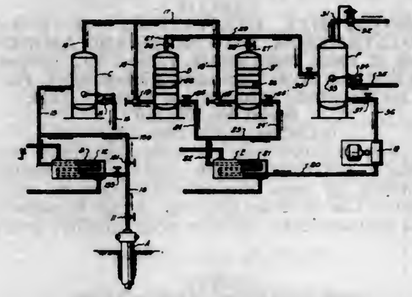
2,284,111
HYDRAULIC PUMP OR MOTOR
Harry F. Vickers, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application June 28, 1939, Serial No. 281,648
3 Claims. (Cl. 103—162)



1. In a fluid pressure energy translating de-

vice having a plurality of cylinders and pistons reciprocable therein, a rotary valve structure comprising two relatively rotatable members provided with flat, annular, sealing surfaces in running engagement and containing fluid distributing ports communicating with said cylinders, one of said members having an area exposed to fluid pressure from said cylinders tending to urge said member into abutment with force proportional to said pressure, means forming a chamber for collecting leakage from said valve, a restricted conduit for draining said chamber, and means including a fluid pressure chamber operatively associated with said one member to exert a thrust thereon and a pilot valve responsive to pressure variations in said first chamber and located in a passage connecting between a source of pressure fluid and the second chamber to vary the total force applied to said one member.

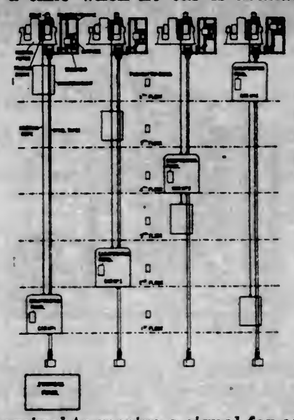
2,284,112
METHOD OF TREATING WELL FLUIDS
Jay P. Walker, Tulsa, Okla., and Edwin V. Foran, San Antonio, Tex., assignors to Eureka Process Corporation, Tulsa, Okla., a corporation of Delaware
Application August 12, 1938, Serial No. 224,468
8 Claims. (Cl. 62—175.5)



1. The method of recovering liquefiable hydrocarbon constituents from distillate type of wells which includes, flowing the gaseous stream from the well at a pressure within the range of retrograde condensation, extracting free water from said stream while maintaining the flowing pressure of the stream within said range, controlling the formation of gas hydrates in said flowing stream and changing the course of flow of said stream before hydrate formation stops flow of the stream, cooling the stream to condense liquefiable hydrocarbon constituents therein while maintaining the pressure within said range, and separating uncondensed gas from the liquids at a pressure within the range of retrograde condensation.

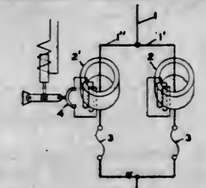
2,284,113
DISPATCHING AND CONTROL SYSTEM FOR ELEVATORS
Gavin Watson, Ossining, N. Y., assignor to Otis Elevator Company, New York, N. Y., a corporation of New Jersey
Application July 30, 1940, Serial No. 348,402
23 Claims. (Cl. 187—29)

1. In a dispatching system for a plurality of elevator cars in which the cars are dispatched from an upper terminal upon receipt of starting signals given in response to operations of mechanism occurring at regular intervals of time, means responsive to an operation of said mechanism at a time when no car is available at the



upper terminal to receive a signal for causing the signal to be given a car below such terminal.

2,284,114
ELECTRICAL CIRCUIT INTERRUPTING MEANS
Hans Weichsel, Webster Groves, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application June 19, 1939, Serial No. 279,862
2 Claims. (Cl. 175—294)

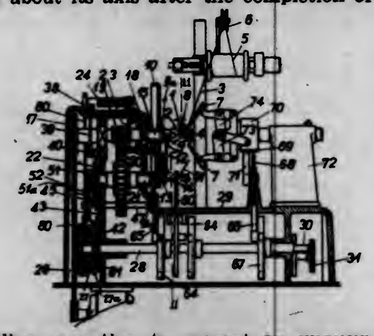


2. In alternating current distribution system comprising a transformer and a load circuit supplied thereby, means independent of the transformer for interrupting said load circuit, said means comprising two conductor sections connected in parallel in said load circuit, each of said sections embodying a fuse and said sections being adapted to carry under normal conditions a portion of the total load current insufficient to rupture the fuse therein, and means responsive to occurrence of a pre-selected condition in the system to vary the inductance of a section to cause such increase of current in one of the sections as to rupture the fuse therein.

2,284,115
ARMATURE WINDING MACHINE
Otto Wirth, Zollikon, near Zurich, Switzerland, assignor to Micafil Ltd., Zurich, Switzerland, a joint stock company
Application April 15, 1939, Serial No. 268,105
In Switzerland April 21, 1938
15 Claims. (Cl. 242—13)

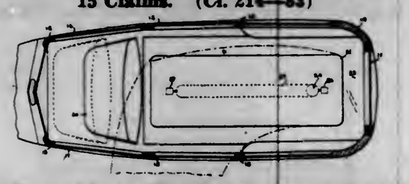
1. In a machine for winding slotted armatures, an armature holding frame, driving means for revolving said frame, counter mechanism for counting the revolutions of said frame, means under control of said counter mechanism for interrupting the driving of said frame when

a desired number of turns have been made, means under control of said counting mechanism for imparting step by step rotation to said armature about its axis after the completion of each



winding operation to present an unwound set of slots to be wound and for restarting said driving means after each advancing step of said armature.

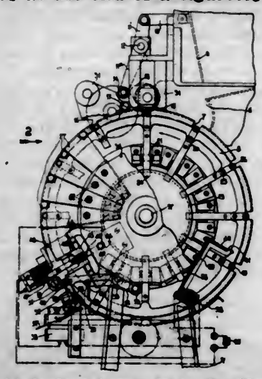
2,284,116
SIDE LOADING HEARSE MECHANISM
David E. Bench, Melvin A. Crosby, and George J. Wintermute, Dayton, Ohio, assignors to Commonwealth Engineering Corporation, Wilmington, Del., a corporation of Delaware
Application April 14, 1941, Serial No. 388,506
15 Claims. (Cl. 214—83)



1. In a side loading hearse, means for supporting a casket, a pivot post for said support, a lead screw nut and a gear means carried by said post, gear means in engagement with said gear means carried by said post for rotating said post, a lead screw in engagement with said nut for moving said post longitudinally of said hearse, gear means in engagement with said lead screw, clutch means disposed between said first mentioned gear means and said last mentioned gear means, means for actuating said clutch means to interconnect said aforementioned gear means, and power means for rotating said lead screw to move said casket support longitudinally of the hearse and simultaneously rotate said pivot post at a predetermined speed ratio to position said casket support transversely of the hearse.

2,284,117
TREATMENT OF CIGARETTES
Cyril Best, Deptford, London, England, assignor to Molins Machine Company Limited, London, England
Application May 20, 1938, Serial No. 209,138
In Great Britain June 3, 1937
11 Claims. (Cl. 131—21)

1. In a device for testing and compressing the tobacco at the ends of cigarettes, a pair of presser elements arranged to engage the opposite ends of a cigarette, said elements each being yieldingly mounted to move inwardly towards the other, means to deliver cigarettes one at a time between the presser elements, means to arrest the inward movement of the presser elements after they have moved a predetermined distance, a feeler co-operating with each presser element to engage the tobacco at the end of a cigarette and means

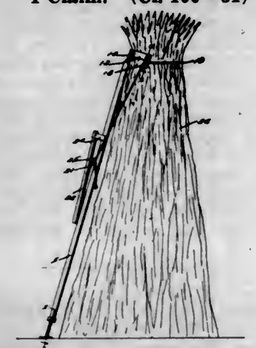


to urge said feelers towards each other, said last named means becoming operative after the presser elements have been moved into the position at which they are closest together.

2,284,118
AMINOMETHYL DERIVATIVES OF P-HYDROXYBENZOIC ACID SALTS AND AMIDES
Louis H. Bock, Huntingdon Valley, Pa., assignor to Rohm & Haas Company, Philadelphia, Pa.
No Drawing. Application April 22, 1941, Serial No. 389,750
5 Claims. (Cl. 260—501)

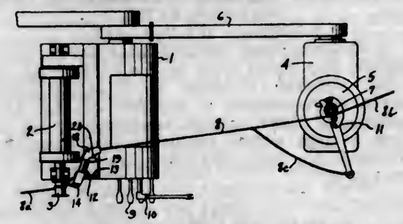
1. A compound selected from the group consisting of 4-hydroxybenzoic acid salts and amides in which at least one of the hydrogen atoms ortho to the phenolic hydroxyl group is replaced by a non-aromatic tertiary aminomethyl group.

2,284,119
CORN SHOCK COMPRESSOR
Edwin B. Boehm, De Forest, Wis.
Application March 25, 1941, Serial No. 385,155
1 Claim. (Cl. 100—31)



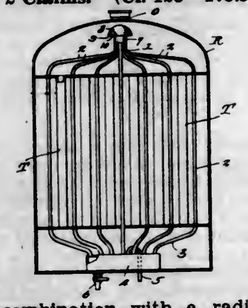
A corn shocker comprising a prop having a cross member at the upper end thereof, said cross member being of arcuate shape and adapted to embrace one side portion of a shock being formed, an elongated flexible element adapted to form a loop in conjunction with the cross member, a pulley at each end of the cross member over which the elongated flexible element is trained, and a lever pivoted to an intermediate point of the prop, a substantially V-shaped member having its crotch portion journaled through an opening in the lever and having its end portions attached to the end portions of the elongated flexible element.

2,284,120
SPINNING LINE GUIDE
Curtis G. Booker, Beaumont, Tex., assignor to The International Derrick & Equipment Company of Texas, Beaumont, Tex., a corporation of Texas
Application May 29, 1939, Serial No. 276,258
2 Claims. (Cl. 254—190)



1. In well drilling equipment having a hoist provided with a cat head at the side of the hoist, for operating a spinning line and a hoist-controlling means on the same side as the cat head; a spinning line guide on the hoist comprising two sheaves, and a frame including two shields for mounting the sheaves on the hoist one of the sheaves being mounted in one shield in alignment with the cat head, and the other sheave being mounted in the other shield in alignment with said first sheave and spaced inwardly toward the hoist with the axes of the sheaves in approximately right angular relation whereby the spinning line from the cat head to a point in front of the hoist will be offset by said guide around the hoist-controlling means.

2,284,121
SELF-THAWING RADIATOR
Luther Demaree Boyd, Louisville, Ky.
Application May 24, 1940, Serial No. 336,970
2 Claims. (Cl. 123—178.5)

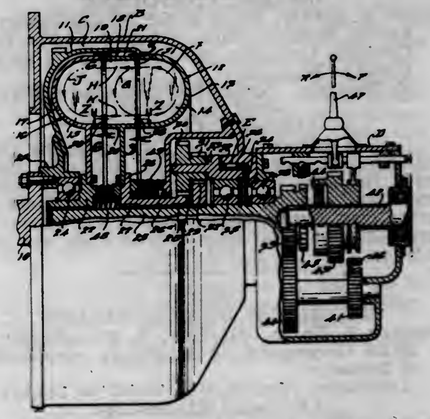


1. The combination with a radiator having upper and lower water chambers and tubes connecting the chambers, of means for distributing heat throughout all portions of the interior of the radiator, said means including a container for water of condensation housed within the lower chamber and constituting an expansion chamber, and steam-conducting tubes positioned at their upper ends within the upper chamber and extended downwardly through the connecting tubes, said steam-conducting tubes opening at their lower ends into the top of the container, said steam-conducting tubes and the container constituting means for transmitting to the contents of the chambers and their connecting tubes the heat of the steam and of the water of condensation.

2,284,122
PROCESS FOR PURIFYING SUGAR SOLUTIONS
Robert Boyd, Vancouver, British Columbia, Canada
No Drawing. Application May 24, 1940, Serial No. 337,077
4 Claims. (Cl. 127—55)

1. A process for purifying sugar solutions which consists in producing in the solution a flocculent precipitate which is soluble in dilute acid solutions, impurities of the sugar solution being enmeshed in the flocs of the precipitate, adding a very porous diatomaceous filter-aid, filtering the solution, and recovering the filter-aid from the residue by dispersing it in acid to dissolve the flocculant, and removing the impurities from the relatively large pores of the filter-aid by washing.

2,284,123
FLUID COUPLING
Carl Breer, Grosse Pointe, and Gordon R. Pennington, Bloomfield Hills, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application April 25, 1941, Serial No. 390,302
20 Claims. (Cl. 74—189.5)



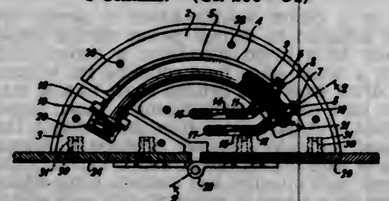
1. In a power transmission; a power input shaft adapted to deliver power during rotation thereof in a given direction; a driven output shaft; a multi-stage fluid coupling for transmitting drive from said driving shaft to said driven shaft; said coupling comprising a vaned impeller adapted to receive drive from said driving shaft, a vaned secondary runner adapted to transmit drive to said driven shaft, and a vaned primary runner; said impeller and runners being disposed for rotation about a common axis and said primary runner being disposed axially between said impeller and said secondary runner such that fluid in said coupling will flow in a circuit from said impeller through said primary runner to said secondary runner and thence returning through said primary runner to said impeller; said primary runner having a plurality of vanes extending outwardly from said axis and defining passages accommodating flow of said fluid in said

circuit and also in a second circuit from said impeller to said primary runner and thence inwardly along said vane passages for return to said impeller; means providing a releasable driving connection between said primary runner and said driven shaft for multiplying torque between said primary runner and said driven shaft during fluid flow in said second circuit thereby providing one stage of operation of said coupling, said releasable driving connecting means operating automatically to release said primary runner from driving connection with said driven shaft during fluid flow in the first said circuit to allow said secondary runner to drive said driven shaft independently of said primary runner and to allow said primary runner to coast around with said impeller thereby providing another stage of operation of said coupling; said vanes of said primary runner having inner portions thereof warped with respect to outer portions thereof to dispose said inner portions angularly with respect to lines parallel to said axis at the zone of returning fluid flowing in the first said circuit from said secondary runner to said primary runner, the inclination of said vane inner portions adjacent said zone being such that the fluid from said secondary runner will enter the vane portions of said primary runner with minimized disturbance of the fluid flow and with minimized circumferential impact of the fluid on the vanes of said primary runner when said coupling is operating in its said another stage.

2,284,124
PURIFICATION OF HIGH-MELTING ORGANIC COMPOUNDS
Edgar C. Britton, Frank B. Smith, and Robert L. Brown, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application December 1, 1939, Serial No. 307,154
4 Claims. (Cl. 202—56)

1. In a method of freeing phenthiazine from colored impurities which tend to distill therewith, the steps which comprise adding a liquid consisting essentially of chlorinated diphenyl ether, distilling the liquid mixture, and thereafter separating purified phenthiazine from the distillate.

2,284,125
ELECTRICAL DOOR INTERLOCK
Andrew L. Brown, Brooklyn, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application June 29, 1940, Serial No. 343,102
4 Claims. (Cl. 200—54)



1. An interlock switch comprising a fixed contact having two ring-like split contact terminals located therein, one of said ring-like split contact terminals having a larger diameter than the other, a movable contact member, said fixed and movable members together forming substantially a semi-circular device, said fixed contact member being secured to the frame of a radio transmitter, said movable contact member secured to the door of a radio transmitter, a hinge fastened to said door and said frame, an arcuate rod-like arm secured to said insulating member, the central radius of said arcuate arm having its point of origin at the pivot point of said hinge, and means on the free end of said arcuate member to short circuit said spring-like contacts on the fixed member when said door is in the closed position.

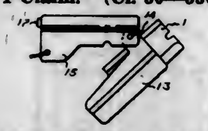
2,284,126
BISMUTH SALTS OF OXY ACIDS
Herman A. Bruson, Germantown, Pa., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa.
No Drawing. Application February 26, 1936, Serial No. 65,789
2 Claims. (Cl. 260—447)

1. A monohydroxy bismuth salt having in the molecule two ether acid radicals from an acid of the general formula $R—O—C_nH_{2n}COOH$, wherein R represents a member of the group consisting of alkyl radicals containing from four to ten carbon atoms inclusive and monocyclic hydroaromatic hydrocarbon radicals, and n is from 1 to 3.

2,284,127
ESTERS OF POLYGLYCEROL
Herman A. Bruson, Philadelphia, Pa., assignor to Röhm & Haas Company, Philadelphia, Pa.
No Drawing. Application June 7, 1940, Serial No. 339,330
5 Claims. (Cl. 260—410)

1. As a new composition of matter the substantially neutral, water-dispersible, non-resinous reaction product of 3 to 15 parts of a resin-forming, dicarboxylic acid, 20 to 40 parts of polyglycerol, and 45 to 75 parts of an acid selected from the group consisting of monobasic aliphatic acids which are not of the drying type and which possess at least eight carbon atoms, monobasic aliphatic acids having at least eight carbon atoms and having the carbon chain interrupted by an oxygen atom, cycloaliphatic acids, and mixtures of these acids.

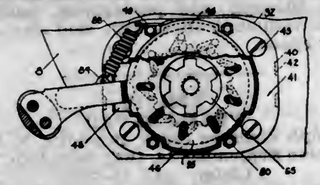
2,284,128
TOOL AND BLADE HOLDER
Paine L. Bush, Dallas, Tex.
Application May 12, 1939, Serial No. 273,188
1 Claim. (Cl. 30—330)



A blade holder including a handle of resilient material having a slot in the forward end of said handle, a notch in one edge of the handle, an extension for said handle arranged to be received within a portion of the handle, a blade gripping element of resilient material for holding a blade, said element being pivotally connected to said handle and adapted to be partially seated in said slot in the handle, and said blade being inserted from the rear portion of the blade gripping element.

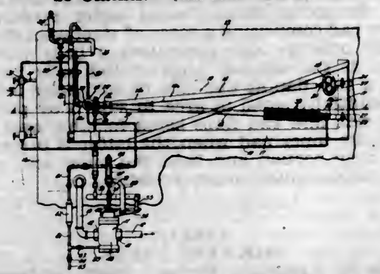
2,284,129
CHAIR OR SEAT STRUCTURE AND FOOT-REST CONSTRUCTION THEREFOR
Orville S. Caesar, Barrington, Ill., assignor to Tropic-Aire, Incorporated, Chicago, Ill., a corporation of Delaware
Application September 27, 1940, Serial No. 358,580
22 Claims. (Cl. 155—171)

1. A foot rest rotatably mounted and having a toothed member rotatable therewith, a pair of plates, one held stationarily and the other rotatably mounted, slots in the plates registered in pairs, the slots of each pair being angularly related, and pins, one passing through each pair



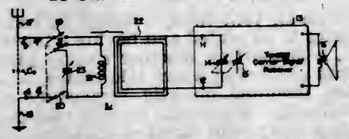
of slots, said slots, pins and teeth thus being so related that rotation of said rotatable plate either causes the pins to engage the teeth to prevent rotation of the member, or causes the pins to be disengaged from said teeth to permit rotation of the member.

2,284,130
BOILER FEED CONTROL
Julian A. Campbell, Long Beach, Calif.
Application January 10, 1940, Serial No. 313,234
15 Claims. (Cl. 122—451.1)



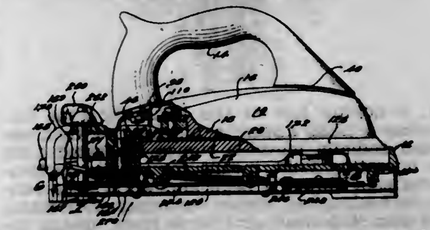
15. Apparatus for controlling the level of heated liquid contained in a chamber having a vapor space above the liquid level therein, comprising an inclined tube, means connecting the tube with the liquid and vapor spaces in said chamber so that liquid stands in the tube intermediate its ends and surges therein in accordance with liquid level changes in the chamber, means operated by longitudinal expansion and contraction of said tube for supplying liquid to said chamber, and means independent of said connecting means for introducing cooling liquid into said tube above the normal liquid level therein.

2,284,131
ANTENNA SYSTEM FOR MODULATED-CARRIER SIGNAL RECEIVERS
Nelson P. Case, Great Neck, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware
Application March 23, 1940, Serial No. 325,566
13 Claims. (Cl. 250—20)



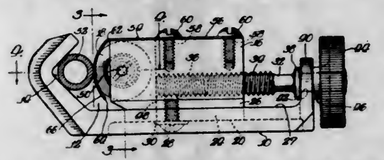
1. An antenna system for a modulated-carrier signal receiver including a plurality of aligned tunable circuits adapted to operate from a loop antenna or from an antenna-ground system comprising, a loop antenna adapted to be tuned over a frequency band, means for coupling said loop antenna to said receiver, an input circuit adapted to be connected to an antenna-ground system having capacitance, impedance means coupled to said loop and tunable by said antenna capacitance to resonance at a frequency near the lower end of said band, means for selectively connecting said last-named means to said input circuit to couple said antenna-ground system through said loop antenna to said receiver, and means for minimizing the effect on the alignment of said tunable circuits of the selective connection of said impedance means to said antenna-ground system.

2,284,132
ELECTRIC IRONING DEVICE
Avery B. Chereton, Detroit, Mich., assignor to Electrical Products Company, Detroit, Mich., a corporation of Michigan
Application August 25, 1938, Serial No. 226,779
6 Claims. (Cl. 200—138)



1. In thermostatic control mechanism including a thermostatically responsive element, a switch operator disposed to be actuated by said element, an adjusting element interposed between said first mentioned element and said operator and adjustable as to position therebetween so as to determine the temperature setting of said mechanism, a control member for adjusting the position of said adjusting element, and means forming a lost motion connection between said control member and said adjusting element.

2,284,133
TUBE CUTTER
Ernest E. Condon, Flushing, N. Y., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application September 8, 1941, Serial No. 409,967
4 Claims. (Cl. 30—124)



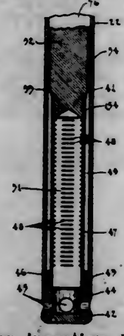
1. A tube cutter comprising a body member having a groove for holding tubing, a cutter block member movably mounted on the body member having a positive feeding mechanism for setting said cutter block member at various fixed positions relative to the groove, a tube-cutting element on the cutter block member, and a holding element attached to one of said members having a portion releasably urged against a tube during a cutting operation wherein said holding element holds one of the severed parts of the tube in the groove after the cutting operation has been completed.

2,284,134
HONING DEVICE
Kirke W. Conner, Detroit, Mich., assignor to Micromatic Hone Corporation, a corporation of Michigan
Application April 27, 1936, Serial No. 76,521
16 Claims. (Cl. 51—34)



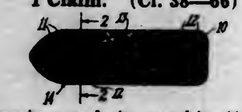
1. A honing tool of the hydraulic type embodying a head having a plurality of fluid operated radially movable stones separated from the operating fluid, means for rapidly reciprocating said abrading head and work piece relative to each other, means for relatively rotating said abrading head and work piece, means for introducing a feed movement parallel to said reciprocation between said abrading head and work piece for changing the relative position thereof, and means for regulating the fluid pressure within said abrading head for controlling the position of said stones.

2,284,135
BEER DISPENSING SYSTEM
Richard T. Cornelius, Minneapolis, Minn.
Application August 25, 1939, Serial No. 291,903
6 Claims. (Cl. 285—40)



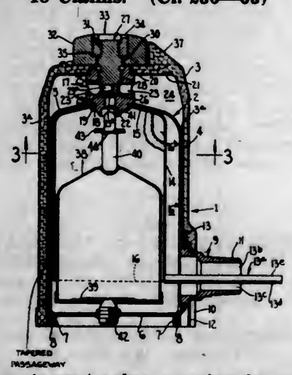
1. A tap tube for insertion in a beer barrel, said tap tube having a passageway therethrough, a cap secured to the lower end of the tap tube and having a bore therein and openings communicating with said bore and forming an inlet to the tap tube, a tubular support carried by said cap and having a bore communicating with the bore of said cap, said support being spaced from the wall of said tap tube to provide an annular space constituting a portion of said passageway, said support having openings therein for bringing the bore of said support into communication with said annular space, and a core carried by said support and spaced from the wall of said tap tube to form a constriction therein for reducing the pressure of the beer passing through said passageway, said space being in communication with said first named annular space.

2,284,136
PRESSING PAD
Ralph Emerson Crary, Brooklyn, N. Y.
Application September 14, 1938, Serial No. 229,935
1 Claim. (Cl. 38—66)



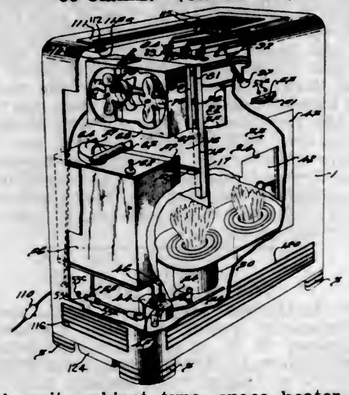
In a pressing pad, in combination, an inner pad comprising a mass of steel wool, a plurality of longitudinally spaced transverse wrappings of strands of steel wool about said pad mass, a wrapping of strands of steel wool longitudinally of said pad mass about the median line thereof, said strands being of wool of heavier texture than employed in said inner pad mass, said mass and wrappings being shaped under pressure, a cover pad comprising a mass of steel wool shaped under pressure and presenting a body portion, flaps at the opposite ends of the body portion and a side flap at one side of said body portion substantially equal in area to said body portion, said side and end flaps being foldable over and onto the inner pad when the latter is placed on the body portion and both the inner and cover pad being united under pressure.

2,284,137
AIR VENT VALVE
Lewis W. Eggleston, Davison, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan
Application June 13, 1941, Serial No. 397,855
18 Claims. (Cl. 236—63)



2. In an air vent valve, a casing for connection to a space to be vented and having a top wall aperture, a supporting member closing said aperture and projecting above said casing, a housing member mounted on said supporting member and extending downward around said casing to provide a downward directed discharge passageway, means engaging and securing the top wall of said housing member to said supporting member in spaced relation to the casing top wall, said supporting member having an outlet passageway leading from the interior of said casing to the space between said top walls, and an automatic valve in said casing controlling flow through said outlet passageway, said housing member confining and directing all of the fluid discharged from said outlet passageway into said discharge passageway.

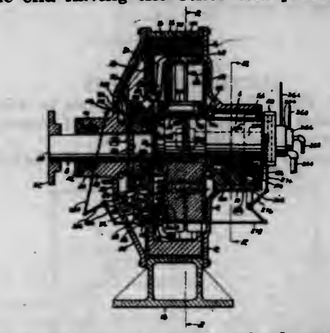
2,284,138
SPACE HEATER
Robert B. Evans, Grosse Pointe, and Eugene F. Farrell, Detroit, Mich., assignors to Evans Products Company, Detroit, Mich., a corporation of Delaware
Application September 30, 1938, Serial No. 232,502
36 Claims. (Cl. 126—93)



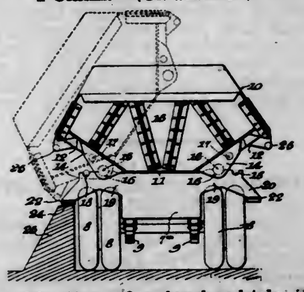
1. A unit, cabinet type, space heater circulating heated air by natural, upward, thermal convection or by downward, blower-induced, contra thermal flow and having an upright combustion unit, an upright, open-top cabinet enclosing and laterally spaced from said upright combustion unit to provide an upwardly extending air heating passage having an open upper end and a lower opening, blower means associated with said passage to induce said downward flow, a grille across the open top of the cabinet, and a substantially horizontal openable closure unit extending across the upper end of said passage above said combustion unit and below said grille and comprising a series of interconnected pivoted shutter vanes which, when open, permit free upward rise of said thermal convection flow but occupy a small height.

2,284,139
ROTARY POWER UNIT INCLUDING MEANS AND METHOD FOR CONTROLLING SAME
Bernhardt T. Fitzpatrick, Long Beach, Calif.
Application November 21, 1938, Serial No. 241,650
5 Claims. (Cl. 121—60)

1. An apparatus of the class described operable by expansible fluids comprising a housing, a center chamber in said housing, a front and rear cover attached at each side of said housing, a bearing disposed in the offset center in each of said front and rear covers, a shaft member revolubly mounted within the bearing of said rear cover, a fly wheel mounted upon said shaft member, a rotor shaft adjusting means mounted in the bearing of said front cover, a rotor shaft mounted within said rotor shaft adjusting means at one end having its other end extending interiorly of said center chamber, a shoulder section disposed at the extended end of said rotor shaft, a rotor means revolubly mounted upon said shoulder section of said rotor shaft, a plurality of cylinders disposed in said rotor means each of which extends centripetally toward the center of said rotor shaft shoulder section, a plurality of fluid passages in said shoulder section of said rotor shaft in juxtaposition to said cylinders in said rotor means, a piston disposed in each of said cylinders and each having a connecting rod pivotally mounted therein and extending outwardly therefrom, a cross link member pivotally connected to each connecting rod at one end having the other end pivotally connected to the rim of said fly wheel, means associated with said rotor shaft adjusting means for controlling the off-center position of said rotor means and said rotor shaft, means associated with said rotor shaft adjusting means including each cross link member for variably controlling the piston strokes in said cylinders, and fluid flow control means connected to said rotor shaft for controlling the fluid flow through said apparatus and also for controlling the forward and the reverse rotation of said rotor means and said fly wheel, substantially as described.



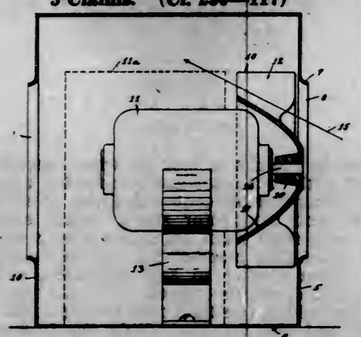
2,284,140
TILTABLE BODY EQUIPPED LAND VEHICLE
George D. Fraunfelder, Easton, Pa., assignor to Easton Car & Construction Company, Easton, Pa.
Application March 3, 1939, Serial No. 259,650
1 Claim. (Cl. 214—64)



The combination of a land vehicle including wheels, pneumatic tires on said wheels, a frame, means including springs for supporting said frame on said wheels, a dump body tiltable to discharge a load over a side edge portion of said body, means for mounting said dump body on said frame including a main pivot shaft engageable with said frame and a second pivot shaft disposed outwardly from and above said main shaft, a roadside load-supporting ramp located at a dumping side, and supporting feet extending from each end of the frame in the direction of

dumping and adapted to be brought into close proximity to and directly over said ramp whereby as a load is dumped from said body said feet will engage said ramp and relieve the stresses imposed as an incident to said dumping on the tires, springs, and frame of said vehicle, said feet being provided with fulcrum grooves formed in the upper portions thereof and adapted to receive said second pivot shaft as the body is being tilted to thereby effect a shifting of pivot from said main shaft to said second shaft to maintain the center of pivot outwardly of the load center of gravity.

2,284,141
SUCTION FAN UNIT
James M. Funk, Ottawa, Ill., assignor to Advance Aluminum Castings Corporation, Chicago, Ill., a corporation of Illinois
Application July 25, 1940, Serial No. 347,373
5 Claims. (Cl. 230—117)

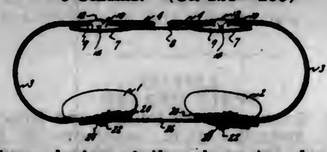


1. In combination, a suction fan comprising a substantially circular back plate having means at the center thereof for driving the same, and impeller blades projecting in an axial direction from the upstream face of said back plate and also in a radial direction beyond the periphery of said back plate, and a cabinet having a circular air inlet and an air outlet, the fan being disposed inside said cabinet in proximity to said inlet with the upstream face toward the inlet and in substantially coaxial relation thereto, the inlet being of a diameter larger than the diameter of the back plate but substantially smaller than the tip diameter of the blades, the air flow induced by the fan from the inlet to the outlet being generally in an axial direction between the impeller blades past the periphery of the back plate.

2,284,142
METHOD OF RECLAIMING COATING MATERIALS
Daniel M. Gray, Wheeling, W. Va., assignor to Hazel-Atlas Glass Company, Wheeling, W. Va., a corporation of West Virginia
No Drawing. Application September 3, 1938, Serial No. 228,457
27 Claims. (Cl. 260—96)

1. A process of reclaiming a coating layer from laminated material having an unsaturated absorbent layer capable of absorbing a substantial portion of the solvent to be used in reclaiming the coating layer, comprising saturating the absorbent layer with a saturant that does not appreciably affect the coating layer, and treating the saturated laminated material with a solvent for said coating layer that is at most only slightly miscible with said saturant.

2,284,143
TRUSS CONSTRUCTION
Colin Grant, Jackson, Mich.
Application December 30, 1938, Serial No. 248,392
6 Claims. (Cl. 128—105)



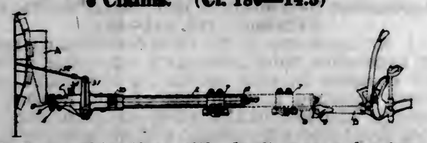
4. In a device of the character described, a circumscribing member having ends detachably secured together, an active pad on said member, an inactive pad disposed at the intersection of said ends, a band on the surface of said inactive pad attached at each end and free in the middle, and a pin projecting outwardly from said inactive pad beneath said band, said band being movable outwardly with respect to said pad, one of said intersecting ends having openings therein for the reception of said pin and being disposed between said inactive pad and said band, the other intersecting end being connected to said inactive pad, whereby said ends may be pivotally connected together and said inactive pad pivotally connected to at least one of said ends.

2,284,144
VOTING MACHINE
Alvin N. Gustavson, Jamestown, N. Y., assignor to Automatic Voting Machine Corporation, Jamestown, N. Y., a corporation of Delaware
Application June 10, 1939, Serial No. 278,527
10 Claims. (Cl. 20—3)



1. In a voting machine having at least one movable curtain for enclosing a voter, a mechanism connected with and adapted to move said curtain into open or closed position, a lever on said machine for operating said mechanism, said mechanism including rotatable means, and further means having direct rotative response to said lever in one direction and delayed response thereto in the opposite direction, said further means serving to operate said rotatable means.

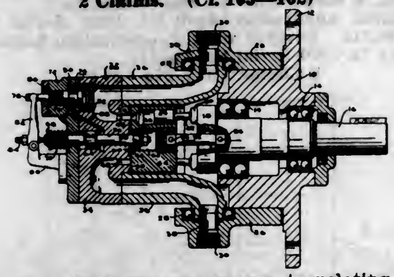
2,284,145
HITCH
Paul Hansmann, Long Prairie, Minn.
Application January 4, 1939, Serial No. 249,241
6 Claims. (Cl. 180—14.5)



2. In combination with draft means having a movement controlling clutch and an implement to be drawn, a connecting hitch comprising slidably connected tubular members, a hollow head supported at the outer end of one of said members, a rod having fixed support within the other member and projectable into said head upon the inward telescoping of said members, an enlargement carried by the free end of said rod, dogs

pivotally supported in said head and engaging with said rod at the rear of said enlargement in a telescoping together of the members, spring means holding said dogs in engagement with the rod in an inwardly telescoping position of the members and trip means pivotally supported rearwardly of said dogs in the path of movement of the enlargement of said rod, said trip means being engageable by said enlargement in a relative separation of the telescoping members, and means connecting said trip means to said clutch for the purpose set forth.

2,284,146
HYDRAULIC PUMP OR MOTOR
Kenneth R. Herman, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application June 28, 1939, Serial No. 281,583
2 Claims. (Cl. 103—162)

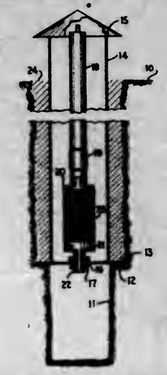


1. In a fluid pressure energy translating device having a plurality of cylinders and pistons reciprocable therein, a rotary valve structure comprising two relatively rotatable members provided with flat, annular, sealing surfaces in running engagement and containing fluid distributing ports communicating with said cylinders, said members being subject to a separating force increasing with increase in operating pressure of the device, valve means mechanically connected to one of the members and controlled by relative movement thereof, and a fluid motor controlled by the valve and connected to force the members together, said valve being located in a passage between and communicating with a source of pressure fluid and the motor.

2,284,147
METHOD AND APPARATUS FOR SOIL GAS ANALYSIS
Henry N. Herrick, Berkeley, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
Application January 28, 1939, Serial No. 253,375
7 Claims. (Cl. 23—257)

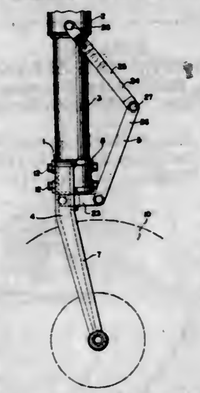
1. An apparatus for collecting hydrocarbon gases from a shallow bore in the earth comprising an open-ended conduit adapted to be sealed in a bore hole in the earth, a container connected to said conduit, and adsorption means in said container, said adsorption means arranged to offer substantially low resistance to the passage of gas through said container and said conduit under the pressure differentials caused by variations in atmospheric pressure.

5. A method for collecting a sample of gas present in a body of porous material, which comprises substantially sealing an adsorbent material for the gas to be collected between gas in a space formed in said porous material and another gas at natural atmospheric pressure, said adsorbent material being open to gas in said space and to said other gas, subjecting the portion of said adsorbent material open to said other gas to the natural variations in atmospheric pressure to force a portion of said other gas into said adsorbent material on a rise in the



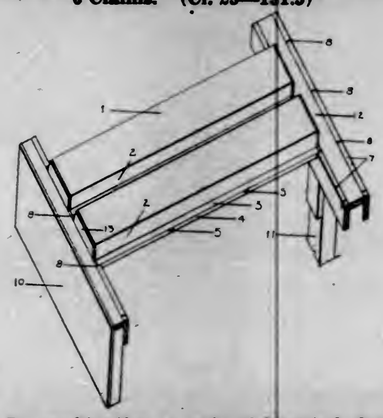
natural atmospheric pressure and to force a portion of said gas within said space into said adsorbent material on a fall in the natural atmospheric pressure, whereby a portion of the gas within said space is adsorbed by said adsorbent material.

2,284,148
ANTISHIMMY DEVICE
George L. Hineman, Buffalo, N. Y., assignor to Bell Aircraft Corporation, Buffalo, N. Y., a corporation of New York
Application February 17, 1939, Serial No. 256,839½
12 Claims. (Cl. 244—104)



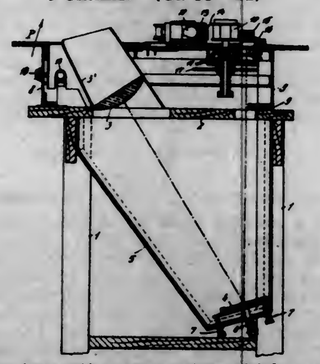
1. In a landing gear for a flying machine, a shock absorbing telescopic strut element adapted to be rigidly attached to the flying machine, a second shock absorbing strut element adapted to telescope with said first strut element and constructed and arranged to have rotational movement relative to said first element, the combination of a vibration damping mechanism comprising an hydraulic piston and cylinder, said cylinder being non-rotatably associated with and forming a continuation of said second mentioned strut element, said piston operating in said cylinder, and means connected to said piston and adapted for connection with respect to said first mentioned strut element for holding said piston from rotation with respect to said first mentioned strut element.

2,284,149
CONSTRUCTION FORM
Earl E. Jones, Houston, Tex.
Application January 29, 1940, Serial No. 316,102
6 Claims. (Cl. 25—131.5)



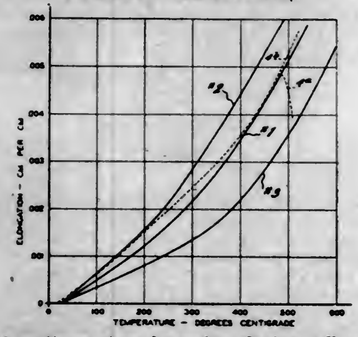
1. In combination, a pair of inverted channel shape pan type forms having laterally extending lower edges with depending flanges, means for securing said flanges together to form a stiffening rib, end members received by said forms to close the ends thereof, each of said end members being free from lateral projections which would prevent it from fitting entirely within said forms and having a downwardly extending part, and a single support bar extending transversely beneath said form adjacent each end thereof, said bars forming the sole support for said forms and end members.

2,284,150
FILM INSPECTING APPARATUS
Gustav Kemna, Babelsberg, Germany, assignor to Universum-Film Aktiengesellschaft, Berlin, Germany
Application June 9, 1938, Serial No. 212,784
In Germany June 10, 1937
6 Claims. (Cl. 88—14)



2. Film inspection apparatus which comprises a supporting structure, a housing open at the top within said structure, a platform mounted on said supporting structure to form a top for said housing, said platform having at least one light aperture therein, a compartment mounted for ready removal on said platform, said compartment being open at the bottom and surmounted by an operating table, film handling and projecting means mounted on said table, energy and power means mounted under said table within said compartment, portions of said means extending through said table and operatively connected with said film handling and projecting means, a viewing screen in said table, means on said table for receiving the image produced by said projecting means and for directing said image through said compartment and a light aperture in said platform into said housing, and means for directing said image from said housing through a light aperture in said platform to said screen.

2,284,151
UNITARY STEM AND CONTACT BASE FOR ELECTRON TUBES AND THE LIKE
Walter E. Kingston, Emporium, Pa., assignor to Hygrade Sylvania Corporation, Emporium, Pa., a corporation of Massachusetts
Original application April 25, 1939, Serial No. 336,515. Divided and this application September 26, 1940, Serial No. 358,477
6 Claims. (Cl. 250—27.5)



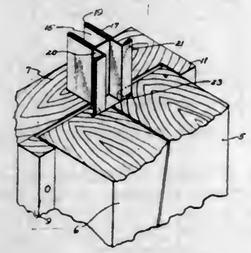
1. A unitary stem base for closing off a radio tube bulb or the like comprising a button-shaped member of soft glass, and a plurality of rigid metal rods sealed through the glass, said rods being of an alloy composed of 38 to not more than 45% nickel; 3 to 15% chromium; 0.1 to 2% metal of the group consisting of aluminum, zirconium and calcium; and the balance substantially of iron, the alloy having sufficient hardness and tensile strength to permit said rods to be used directly as external plug-in prongs without danger of weakening the seal.

2,284,152
PISTON
Louis T. Knocke, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application May 2, 1938, Serial No. 205,430
4 Claims. (Cl. 309—13)



1. A piston comprising a head, a pair of spaced wrist pin bosses depending from said head having aligned bearing openings, a skirt substantially elliptical in transverse cross section having its major axis perpendicular to the axis of said wrist pin bearings, said skirt being separated from said head in a region between said wrist pin bosses and connected to said head in the region of said wrist pin bosses, and a strut plate under initial tension connecting opposed faces of said skirt in a plane coincident with the major axis of said elliptical skirt and intersecting the axis of said wrist pin bearings.

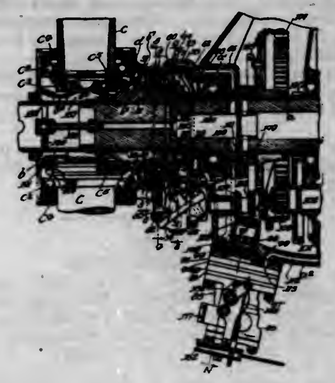
2,284,153
WEATHER STRIP
Arthur H. Kuhlmann, University City, Mo.
Application November 14, 1938, Serial No. 240,242
2 Claims. (Cl. 20—69)



2. A weather strip comprising a grooved guideway, a floating member, and a wooden sash, said guideway being formed of metal and having a main portion and a substantially U-shaped second portion, said guideway being arranged to be positioned in a window frame and be stationary with respect to the said window frame, said floating member being formed of metal and comprising an L shaped member having a plane section that engages the substantially U-shaped second portion of the guideway, a bend, and a folded end, a longitudinal groove in the wooden sash to receive the folded end of the floating member, the said second portion of the guideway being dimensioned to receive the plane end of the floating member thereby forming an air seal therebetween and to permit lateral movement between the said second portion and the plane end of the floating member positioned in the said second portion, the longitudinal groove in the wooden sash and said folded end of the floating member being dimensioned to form an air seal therebetween and being arranged to provide metal to wood bearing contact and thereby permit ready longitudinal movement of the sash relative to the floating member, said floating member having a frictional rather than a positive engagement with the elements of the weather seal.

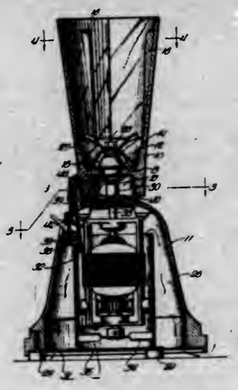
2,284,154
AUTOMATIC CONTROLLABLE PITCH PROPELLER
Glen T. Lampton, Paul F. Hackethal, and Arthur T. Briggs, Williamsport, Pa., assignors, by mesne assignments, to The Aviation Corporation, New York, N. Y., a corporation of Delaware
Application July 16, 1937, Serial No. 153,926
13 Claims. (Cl. 170—163)

1. Mechanism for shifting and controlling the blades of a variable pitch propeller comprising variable speed gearing for shifting the blades to vary their pitch, comprising a variable speed pulley, fluid pressure means for actuating the pulley for pitch-changes, a variable pressure pump responsive to the speed of the propeller, and means controlled by variations of pressure



produced by the pump for controlling the pressure means to actuate the pulley.

2,284,155
FOOD MIXER
Myron J. Landgraf, Chicago, Ill., assignor to Henry J. Goldblatt, Chicago, Ill.
Application April 27, 1939, Serial No. 270,320
11 Claims. (Cl. 259—108)

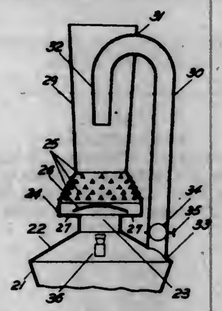


1. In a food mixer of the character described, the combination of a bowl and impeller so shaped and so related to each other that materials introduced to the bowl while the impeller is rotated at high speed are quickly comminuted and mixed, said bowl having a lower portion of relatively narrow circular cross section with upwardly diverging sides, and an upper continuing section with upwardly diverging walls shaped to split into a plurality of vortices liquid-like material which has had a circular motion imparted to it while in the bottom portion of the bowl, said impeller having a pair of blades projecting outwardly and upwardly at an angle of about 45 degrees to the horizontal, and a pair of blades projecting outwardly and downwardly at about 45 degrees to the horizontal, both sets of blades being pitched in a direction to force material downwardly during rotation, the area of rotation of such blades substantially entirely filling said lower portion.

2,284,156
ESTERS OF TERPENE PHENOLS
Fritz Lemmer, Wiesbaden, and Kurt Hultzsch, Wiesbaden-Biebrich, Germany, assignors to The Resinous Products & Chemical Company, Philadelphia, Pa.
No Drawing. Application December 17, 1938, Serial No. 246,502. In Germany January 28, 1938
5 Claims. (Cl. 260—410)

1. A terpene substituted phenol, the phenolic hydroxyl group of which is esterified with a carboxylic acid.

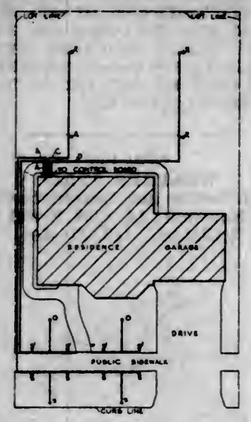
2,284,157
ORCHARD HEATER
Arthur Stephen Leonard, Davis, Calif., assignor to California Fruit Growers Exchange, Los Angeles, Calif., a corporation of California
Application November 12, 1937, Serial No. 174,170
5 Claims. (Cl. 158—91)



1. In a unitary, portable orchard heater, a fuel receptacle having bottom and side walls and adapted to hold as a body a charge of oil to be burned, said receptacle being provided with a cover having vents therein, a combustion chamber centrally positioned over said cover and connected therewith, a main stack centrally positioned above said combustion chamber, one or more auxiliary stacks having an entrance portion disposed within the main stack and above the combustion zone, and communicating with the receptacle for the body of oil at a point ahead of the combustion chamber, said auxiliary stack being positioned outside of the main stack and adapted to provide for the return of a portion of the products of combustion from the main stack to the fuel receptacle and over the body of oil, whereby there is obtained a mixture of the returned products of combustion with the vapors from said body of oil prior to the entry of said vapors into the combustion chamber.

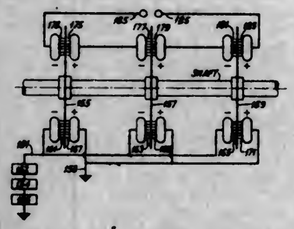
2,284,158
APPARATUS FOR AUTOMATIC SOIL SPRINKLING SYSTEMS
Alexander J. Lewis, Chicago, Ill.
Application July 22, 1940, Serial No. 346,683
3 Claims. (Cl. 161—7)

1. In an automatically operable sprinkling system, the combination of a water supply pipe, a plurality of separate individual distributing valves each connected to the water supply pipe, a solenoid valve in the supply pipe controlling admission of water to the distributing valves, an electric motor, timing means controlling starting and stopping of said motor and simultaneously opening and closing of said solenoid valve, a rotatable shaft, reduction gearing between said motor and shaft, and cam members on said shaft successively opening said distributing valves to



permit flow of water therefrom upon actuation of said motor and rotation of said shaft.

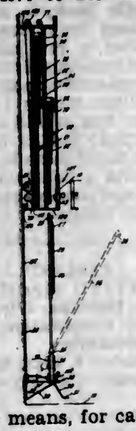
2,284,159
HIGH VOLTAGE GENERATOR
Nils E. Lindenblad, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Original application August 9, 1933, Serial No. 684,328. Divided and this application April 12, 1938, Serial No. 201,528
8 Claims. (Cl. 171—329)



1. A system for generating high voltages comprising a plurality of metal discs each covered with a layer of varnished silk, said varnished silk layer metallized on its outer surface, means for rotating said discs, rectifying means electrically coupled with said discs, and collecting means adjacent said discs and so arranged with respect to said rectifying means that potentials of opposite polarities are obtained at the output of said system.

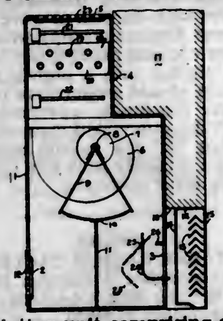
2,284,160
DEVICE FOR PLACING BAG COVERS OVER GARMENTS
Daniel J. McCarty, Los Angeles, Calif.
Application September 11, 1939, Serial No. 294,227
9 Claims. (Cl. 226—18)

9. In apparatus of the character described, a cabinet having a door, a stock of garment bags supported by the cabinet, means whereby a garment may be supported in position to permit a bag to be placed over the garment when the door is opened, said means being movable to a garment discharging position, and means cooperating with the garment supporting means and the door and responsive to movement of said gar-



ment supporting means, for causing said door to close.

2,284,161
AIR CONDITIONING APPARATUS
John McElgin, Philadelphia, Pa., assignor to John J. Nesbitt, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application June 9, 1939, Serial No. 278,217
8 Claims. (Cl. 98—38)



1. A ventilating unit comprising a casing having a recirculated air inlet, an outdoor air inlet and a mixed air outlet, a passageway leading from said outdoor air inlet into said unit, a damper for controlling the proportion of outdoor air with respect to recirculated air, and means for materially reducing the size of the outdoor air inlet passageway in accordance with instantaneous increases in the velocity pressure of the outdoor air, said means comprising a baffle of L-shaped cross section pivoted along one edge of one of the legs in order to swing in response to wind pressure and adapted to assume such a position that the size of the outdoor air inlet passageway is materially reduced in accordance with increases of said velocity pressure.
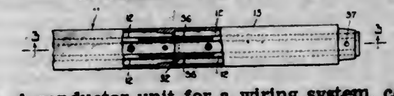
2,284,162
LIPSTICK CONTAINER
Robert L. McKnight, Watertown, and Willis H. Machin, Middlebury, Conn., assignors to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application June 21, 1940, Serial No. 341,672
9 Claims. (Cl. 206—56)

1. In a lipstick container, an outer casing having a helical groove formed in its inner wall; a sleeve in said casing having an integral enlarged operation head at one end engaged against the end wall of the container and other opposite end provided with an outward flange for engagement with the opposite end wall of the container thus effecting a locking and rotatable connection between said casing and shell, said shell having a longitudinal slot in its side wall; and a carrier



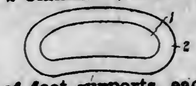
cup disposed within said sleeve and having a relatively long strap sheared in the side wall of said carrier cup and capable of being sprung relative to the normal side wall of said cup, and a transverse U-shaped lug formed outwardly from an intermediate part of said strap, projecting through said slot and engageable in said helical groove whereby upon relative rotation of said sleeve to said casing said carrier cup will be advanced and retracted within said container.

2,284,163
ELECTRICITY CONDUCTOR AND METHOD OF USING SAME
Joseph F. O'Brien, Jersey City, N. J., assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York
Application March 13, 1941, Serial No. 383,089
16 Claims. (Cl. 174—68)



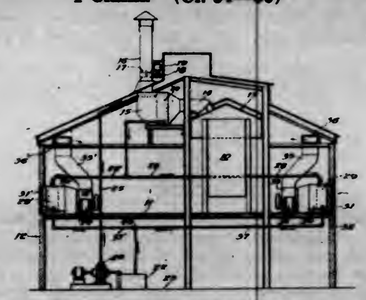
7. A conductor unit for a wiring system, comprising a cap member having a top and side walls, a base arranged to be positioned within said cap member, said base having an end portion for projection beyond an end of said cap member when said cap member and base are in operative association, electricity conductor means insulatedly mounted within said base and extending longitudinally thereof, and means for establishing the relative position of said cap and base members to gage the extent of projection of said base from said cap member.

2,284,164
ARCH SUPPORT
William T. Porter, St. Catharines, Ontario, Canada
Application August 3, 1940, Serial No. 350,871
In Canada August 5, 1939
2 Claims. (Cl. 36—71)



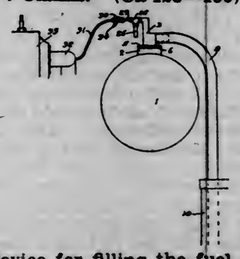
1. A pair of foot supports, each comprising a main supporting portion and a thin flange extending about its entire periphery, the back surface of the flange of each of said supports having a non-setting adhesive applied thereto, said supports being positioned back to back with the adhesive temporarily retaining them in said relationship for packing purposes, said adhesive when the supports are subsequently separated for insertion in the respective members of a pair of shoes being adapted to retain the support in position in the shoe.

2,284,165
HEATING SYSTEM
Samuel R. Porwancher, Chicago, Ill., assignor to Drying Systems, Inc., Chicago, Ill., a corporation of Illinois
Application June 23, 1939, Serial No. 280,737
1 Claim. (Cl. 34—36)



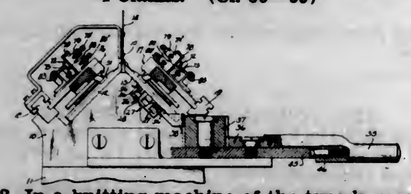
The combination with a building having side walls and a paper making machine disposed within the building through which a heated fluid medium is circulated for the purpose of absorbing moisture from paper material produced therein, a heat reclaiming system comprising an exhaust hood overlying and partially enclosing said machine, an exhaust passage leading from said hood and communicating with the atmosphere outside the building, an exhaust fan in said passage for withdrawing heated air from the vicinity of the machine and discharging the same to atmosphere, a heat exchanger in said exhaust passage having coils through which a liquid may be circulated out of direct contact with the air flowing through said passage but in heat exchange relation therewith to absorb heat therefrom, there being an inlet passage in one of the building side walls, a heat transfer device situated adjacent said inlet passage and remote from said heat exchanger and having coils through which a liquid may be circulated out of direct contact with air passed over said heat transfer device but in heat exchange relation therewith to transfer heat thereto, means interconnecting the coils of said heat exchanger and said heat transfer device in a closed circulatory system, and pump means embodied in said system operable to circulate a liquid therethrough for carrying heat absorbed in said heat exchanger to said heat transfer device, and a distributor duct communicating with the inlet passage and having a discharge outlet for air positioned adjacent the upper regions of the building and remote from the paper making machine.

2,284,166
TANK FILLING DEVICE
Carl Fraser Pye, Winnipeg, Manitoba, Canada
Application April 24, 1941, Serial No. 390,174
7 Claims. (Cl. 123—136)



1. In a device for filling the fuel supply tank of an internal combustion motor: a fluid connection from the intake manifold of said motor, through said supply tank, to a lower fuel filled tank to elevate said lower fuel to said supply tank; means located in said connection between said manifold and said supply tank for shutting off the suction from said supply tank when said supply tank is filled; means for supplying and storing a reserve of fuel in said connection during said filling operation; means for admitting air to said reserve to carry same to said motor; and means for supplying a continuous flow of combustible fuel to said motor subsequent to the shutting off of said suction.

2,284,167
KNITTING MACHINE
Walter E. Ralston, Delavan, Wis., assignor to The George W. Borg Corporation, Chicago, Ill., a corporation of Delaware
Application November 4, 1938, Serial No. 238,837
4 Claims. (Cl. 66—69)



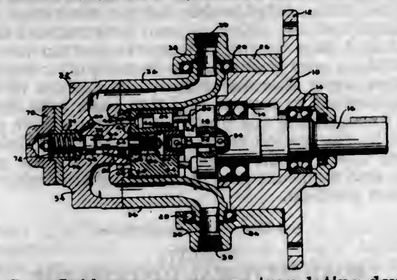
2. In a knitting machine of the type known as a flat knitting machine including two needle plates provided with needles to work to and from a knitting zone therebetween, and a yarn guide for feeding yarn to said needles, one of said needle plates being divided into a plurality of sections wherein certain of said sections are provided with connections for coordinate movement in opposite right and left direction, said connections including a rack bar for the section moving in one direction and a separate rack bar for the section moving in the other direction.

2,284,168
ADJUSTABLE RETRACTABLE TOOL
Robert J. Rickenbacher, Columbus, Ohio, assignor to The Kilgore Mfg. Company, Westerville, Ohio, a corporation of Ohio
Application May 3, 1939, Serial No. 271,543
7 Claims. (Cl. 30—162)



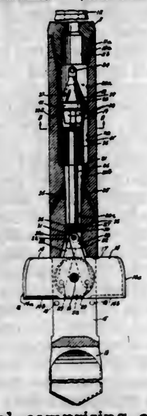
1. As an article of manufacture, a unitary working tool and tool-receiving handle therefor, said handle having a longitudinal groove on one side in which said tool is adapted to reciprocate, means comprising an elongated slot on the opposite side and of less width than said groove in communication with the groove, and pin means interlocked with said groove and slot and passing through the end portion of said working tool retained in the handle, and means comprising a button fastened to one end of said pin and slidably operable in said groove of the handle for adjustably positioning said working tool with respect to said handle.

2,284,169
HYDRAULIC PUMP OR MOTOR
James Robinson, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application June 28, 1939, Serial No. 281,645
6 Claims. (Cl. 103—162)



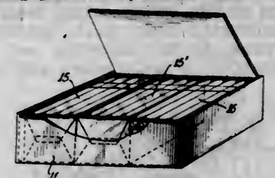
2. In a fluid pressure energy translating device having a plurality of cylinders and pistons reciprocable therein, a rotary valve structure comprising two relatively rotatable members provided with flat, annular, sealing surfaces in running engagement and containing fluid distributing ports communicating with said cylinders, said members being hydraulically balanced against at least a major portion of the separating force normally existing between said surfaces, an expansible chamber in communication with one of said ports and having a spring-biased movable member, and means forming a resilient connection between said movable member and one of said rotatable members through which said movable member acts on the rotatable member.

2,284,170
OIL WELL TOOL
James J. Santiago, Los Angeles, Calif., assignor to John Grant, Los Angeles, Calif.
Application October 5, 1937, Serial No. 167,389
3 Claims. (Cl. 255—76)



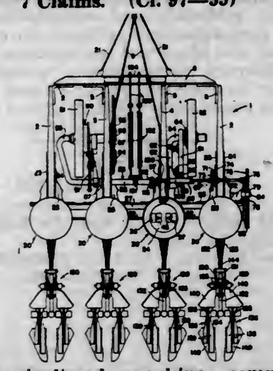
1. A well tool comprising a tubular body, a cutter mounted in the body, a vertically extending cutter actuating plunger within the body bore and operable by fluid pressure, said plunger comprising a hollow head having an upper upwardly tapering portion and a rod operatively associated with the lower end of said head, there being a plurality of fluid passing slots in said tapered portion of the head arranged to direct streams of operating fluid to a point of convergence within the head above the upper end of the rod, the fluid thence passing downwardly through openings in the lower portion of the head into a space between said rod and the wall of said bore.

2,284,171
PACKAGE
Samuel J. Silberman, Hartford, Conn., assignor to Consolidated Cigar Corporation, New York, N. Y., a corporation of Delaware
Application June 1, 1939, Serial No. 276,783
4 Claims. (Cl. 206—48.5)



1. A retail package of preserved tobacco comprising a container enclosing a plurality of loose cigars individually enclosed in separate preserving wrappers of moistureproof Cellophane and enclosing at least two groups of such individually wrapped cigars and each of said groups being enclosed in another and separate preserving wrapper, each of said groups and each of said first-mentioned cigars being independently removable from said container.

2,284,172
DAMMING DEVICE
Walter H. Silver, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application February 9, 1940, Serial No. 318,069
7 Claims. (Cl. 97—55)

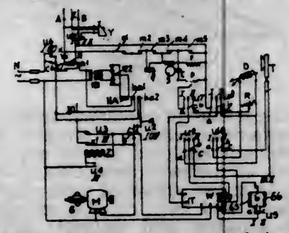


1. An agricultural machine comprising a planter including a plurality of planting units, each having means for planting two rows, and a plurality of dam forming means, one for each of said units, arranged to operate in predetermined relation with respect to the associated rows.

2,284,173
APPARATUS FOR RECORDING AND REPRODUCING TELEPHONE MESSAGES
Johann Soukup, Vienna, Germany, and Friedrich Zerner, Asniere, France
Application March 16, 1939, Serial No. 262,206
In Austria January 31, 1936
50 Claims. (Cl. 179—6)

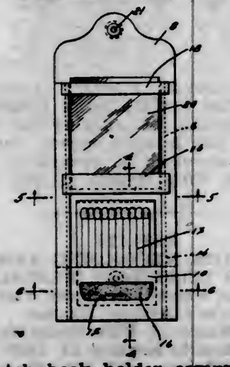
1. In apparatus for recording telephone mes-

sages in a subscriber's absence and for subsequently reproducing such messages in combination, a single control handle for controlling said apparatus and having a plurality of operating positions, a plurality of means controlled by said control handle for connecting the apparatus to a telephone line and preparing the apparatus for incoming messages, for disconnecting the apparatus from the telephone line and connecting a telephone instrument to said line, and for reproducing recorded messages while the apparatus is disconnected from the telephone line, the operation of said apparatus being divided into periods during which actual recording and actual reproducing take place, periods during which preparation for recording and preparation for reproducing are effected and periods of



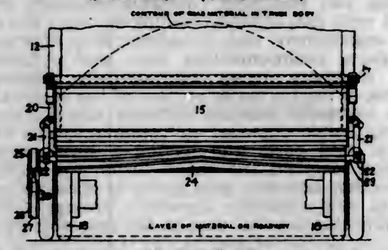
rest, said periods being grouped together into three adjacent phases, a recording phase, an intermediate phase and a reproducing phase, in such manner that the control handle when set to any of its positions terminates one phase and simultaneously initiates an adjacent phase, a metering device adapted to limit the operation of the apparatus during recording and reproduction, and during preparation therefor to steps of predetermined length, counting mechanisms adapted to count the number of messages recorded, reproduced and repositioned during preparation for recording and reproducing and, on reaching predetermined settings, to change the mechanical and electrical connections of the apparatus, thereby automatically terminating periods other than the last one of a phase or initiating periods other than the first one of a phase.

2,284,174
MATCHBOOK HOLDER
Lawrence M. Spicer, San Francisco, Calif., assignor of forty-five per cent to George Sikol, San Francisco, Calif.
Application February 15, 1941, Serial No. 379,130
2 Claims. (Cl. 206—38)



1. A match book holder comprising a blank sheet of flexible material of substantially rectangular form, an inwardly folded flap at the longitudinal edges of the blank, an inwardly folded flap at one end of the blank, spaced parallel transverse strips adjacent the other end of the blank, longitudinally extending rows of stitching securing said flaps and strips to the blank, the intermediate portion of said strips being free for receiving a flat article behind the strips and inwardly of the edges of said longitudinal flaps said end flap having its central portion free to provide a pocket adapted to removably receive a match book also inwardly of the edges of the longitudinal flaps, said end flap having an opening for exposing the match striking abrasive carried by the match book, said blank being folded upon itself at an intermediate transverse portion and a closure flap for securing the holder in folded position.

2,284,175
ROAD MATERIAL DISTRIBUTOR
Stewart S. Stabley, Red Lion, Pa.
Application November 27, 1939, Serial No. 306,295
2 Claims. (Cl. 275—2)



1. A road material distributing apparatus comprising a vehicle having a tiltable body with a rear discharge end, a tail gate pivotally connected at its upper edge to the rear of the body, said tail gate being adapted to close the rear end of the body when the body is not tilted, said tail gate being adapted to swing outwardly on its pivot when the front end of the body is tilted upwardly so that the lower edge of the tail gate is spaced from the rear end of the body structure to provide a restricted elongated transverse opening for the material discharged from the body, an elongated roller arranged at the rear end of the body, means for rotatably supporting said roller in proximity to said discharge opening so that the roller will be positioned beneath the discharge opening when the front end of the body is elevated, a series of parallel grooves formed in the periphery of said roller, said grooves being adapted to provide pockets for containing a predetermined quantity of road material discharged from said body, the grooves being angularly disposed with respect to the longitudinal center line of the roller and being oppositely pitched in the direction of rotation of the roller from the mid portion of the roller toward the ends of the roller, and means operatively connecting said roller with a wheel of the vehicle for rotating the roller in a direction opposite to the direction of rotation of the vehicle wheels so that said roller discharges the material thereon to the rear when the vehicle is moving forwardly.

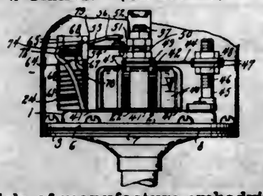
2,284,176
CIGARETTE HOLDER
Herman F. Stebner, Walla Walla, Wash.
Application July 30, 1941, Serial No. 404,697
1 Claim. (Cl. 131—190)

A cigarette holder comprising a body, a mouthpiece formed on the body and together with the latter having a smoke passage therethrough, a stationary jaw formed on the body and extending forwardly therefrom, said body having an annular groove about the same at the juncture of the stationary jaw therewith and a recess in its upper portion, a ring seated in the groove, a pivot pin fixed to and securing the ring in the groove, a movable jaw, a strip secured to the movable jaw and extending along the length thereof, ears formed on the strip and mounted on the pin for pivotally connecting the movable jaw to the body for cooperation with the sta-



tionary jaw to receive and set up a clamping engagement with a cigarette, a handle formed on the strip and extending rearwardly and upwardly relative to the movable jaw, a leaf spring having one end fixed to the handle and its remaining portion free, said spring having its free portion mounted in the recess for sliding movement and to urge and hold the movable jaw to and in clamping position, and an arcuate member secured to the strip to embrace the movable jaw and to bear against the opposite sides of the stationary jaw to hold the movable jaw when in clamping position flush with the stationary jaw.

2,284,177
SIGNAL
Lewis J. Stern, Adrian, Mich., assignor to Schwarze Electric Company, Adrian, Mich., a corporation of Michigan
Application September 14, 1939, Serial No. 294,917
2 Claims. (Cl. 177—7)

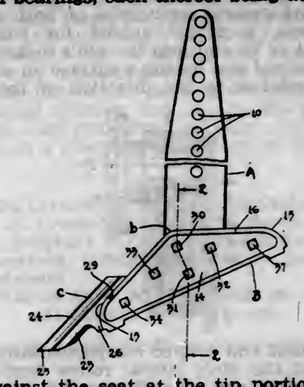


1. An article of manufacture embodying a post adapted to be mounted in the frame member of a signal device, said post having a shoulder with a less diameter threaded stem therefrom, a series of parts assembled on said threaded stem from said shoulder including a holding channel, a pair of terminals, a pair of breaker elements, a nut on the stem to maintain the assembly, and insulation spacing the channel from the adjacent terminal, insulation between the terminals, insulation between the breaker elements, and insulation between the nut and the adjacent breaker element.

2,284,178
SCARIFIER
Ira Sublett, St. Louis, Mo., assignor to Fairmont Railway Motors, Inc., Fairmont, Minn., a corporation of Minnesota
Application November 3, 1939, Serial No. 302,677
4 Claims. (Cl. 262—3)

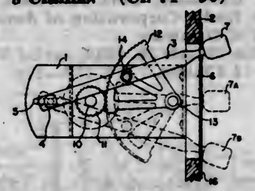
4. A scarifier element comprising an upright hanger bar, an elongated tooth holder, and a tooth, said holder consisting of two similarly formed plate-like members, each member having a tip portion, the edge thereof providing a seat,

said holder members being bolted to the hanger bar at the opposite sides thereof and in registry, one with the other, with their inner faces spaced apart in facing relationship and with the tip portions thereof extending forwardly of the hanger bar in a leading position, said tooth having dual bearings, each thereof being adapted to



bear against the seat at the tip portion of one of the holder members, and means for retaining the tooth in seated position on the tip portions of the assembled holder members, said tooth closing the space between the spaced holder members and shielding said members at their tip portions.

2,284,179
RADIO RECEIVER CONTROL DEVICE
George Willard Thelin, Marion, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware
Application August 8, 1940, Serial No. 350,408
3 Claims. (Cl. 74—90)

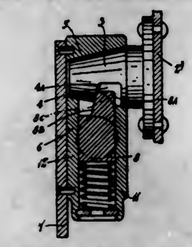


1. A variable-control actuating mechanism comprising a lever slidably pivoted at one end about an axis parallel to the shaft of said variable control, a first member mounted on said shaft, and an arcuately shaped second member engaging said first member and being swivelly connected to said lever, the distance between the pivot of said lever and its point of swivel being so proportioned with respect to the effective radius of said point of swivel on said second member that the free end of said lever moves in a substantially straight line.

2,284,180
SECURING DEVICE, PARTICULARLY FOR SUCH PARTS AS AIRCRAFT COWLINGS AND THE LIKE
Frederick Metcalf Thomas, Hertfordshire, England, assignor to The De Havilland Aircraft Company Limited, Hatfield Aerodrome, England
Application April 17, 1939, Serial No. 268,444
In Great Britain April 27, 1938
8 Claims. (Cl. 287—119)

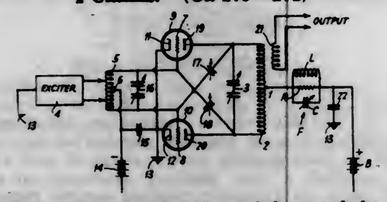
1. Means for securing together two separable

members, comprising a tapered pin, having a lateral recess in its tapered portion, carried by one member and a complementally tapered socket in the other member for lateral pin and socket wedging engagement by endwise movement of the pin limited solely by such wedging action, said tapered pin and socket being formed for mutual engagement lengthwise on both sides of such recess, a detent guided for lengthwise movement of its end into the pin's socket transversely thereof and having a surface on such end inclined relative to the direction of movement



of the detent and formed complementally to the surface of the pin's lateral recess next to the pin's tapered end, for contiguous, unilateral, wedging engagement of such surfaces tending to force said pin farther into its socket by endwise movement of the detent, such pin's lateral recess being of such a width and depth as to maintain its bottom and opposite side surface always spaced from said detent while retaining said pin and socket in wedging socket, and a spring urging said detent endwise into the pin's recess, in turn to bias the pin into socket wedging engagement.

2,284,181
PARASITIC FILTER
George L. Usselman, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application March 30, 1940, Serial No. 326,932
4 Claims. (Cl. 179—171)

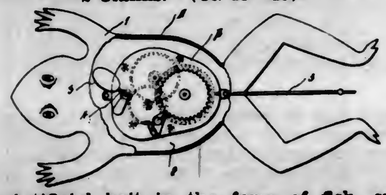


2. In combination a pair of tubes each having an anode, a cathode and a grid, a tuned circuit connected across the grids, a tuned circuit consisting of inductance and capacity connected across the anodes, and means for preventing parasitics and permitting high efficiency operation at fundamental frequency, consisting of a circuit connected from the midpoint of said inductance across the anodes to ground, said circuit including a resistor, an inductance and a capacity connected in parallel.

2,284,182
METHOD OF TREATING TEXTILE FABRICS
John Verduin, Hawthorne, N. J.
No Drawing. Application January 15, 1940, Serial No. 314,015
1 Claim. (Cl. 26—69)

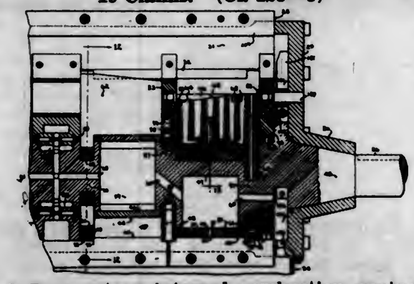
A moireing machine comprising a scratching mechanism comprising an engraved cylindrical roller, heating means for said roller, a scratching roller, said scratching roller being positioned so as to contact the fabric passing over said engraved roller, said engraved roller and said scratching roller rotating in opposite directions.

2,284,183
MECHANICALLY ANIMATED ARTIFICIAL BAIT
Barry A. Wade, Evansville, Ind.
Application April 2, 1941, Serial No. 386,556
2 Claims. (Cl. 43—43)



1. Artificial bait in the form of fish, small animals, birds or insects, comprising a shell composed of top and bottom horizontally separated sections, a watch mechanism rigidly secured to the bottom section of the shell, and an eccentric or off-balance weight attached to the main drive of the watch mechanism and adapted to produce the animated life-like action of the artificial bait, substantially as and for the purpose specified.

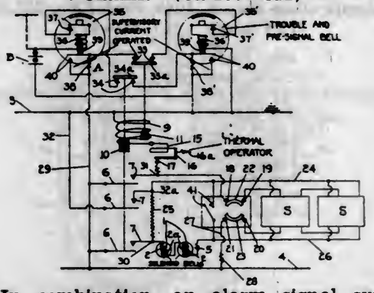
2,284,184
ROTARY DIESEL ENGINE
Joseph N. Warner, Dearborn, Mich.
Application December 11, 1939, Serial No. 308,585
19 Claims. (Cl. 123—8)



1. In a rotary internal combustion engine of the Diesel type, a casing having air compressing and power expending cylinder means formed therein, a crankshaft extending through said casing and transversely of said cylinders, drum shaped rotary pistons eccentrically mounted on said crankshaft and working in said cylinders, said pistons being arranged to rotate with said crankshaft and slidably engage the cylinder wall of their respective cylinders, each of said pistons having associated abutment means having extensions driven by said crankshaft and movable in sliding engagement with the periphery of said piston means for separating said cylinders into two compartments, said abutment means each including an oscillating member having a slot and a sliding member slidably movable in the slot of said oscillating member, means comprising a passageway between said air compressing cylinder and power expending cylinder for conducting compressed air from said air compressing cylinder means into said power expending cylinder means, and valve means for controlling the passage of compressed air through said passageway, said

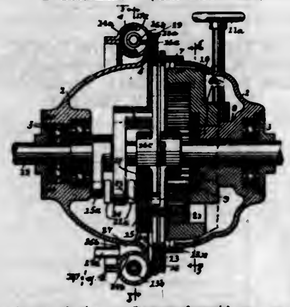
abutment extensions being located adjacent to the side walls of said pistons, and said passageway being located between said pistons.

2,284,185
ALARM SIGNAL SYSTEM
John H. Wheelock, Fitzwilliam, N. H., assignor to Signal Engineering & Manufacturing Company, New York, N. Y., a corporation of Massachusetts
Original application June 24, 1936, Serial No. 86,921. Divided and this application February 29, 1940, Serial No. 321,532
7 Claims. (Cl. 177—311)



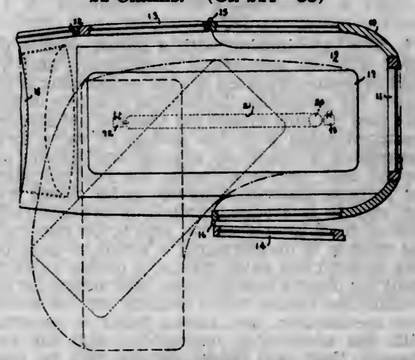
1. In combination, an alarm signal system comprising sending stations, general alarm signals, a first fault-indicating signal, a second fault-indicating signal, means for maintaining flow of supervisory current through said system and both fault-indicating signals, with the value of said current insufficient to cause operation of either signal, means responsive to interruption of supervisory current through the first signal to operate the second signal, means responsive to interruption of supervisory current through said system or said signal to operate the first signal, and means responsive to actuation of a sending station to cause both of said fault-indicating signals to operate as preliminary or warning signals, while preventing operation of said general alarm signals.

2,284,186
ROTARY INTERNAL COMBUSTION ENGINE
Harry F. Wolstenholme, Paterson, N. J.
Application March 25, 1940, Serial No. 325,834
4 Claims. (Cl. 123—11)



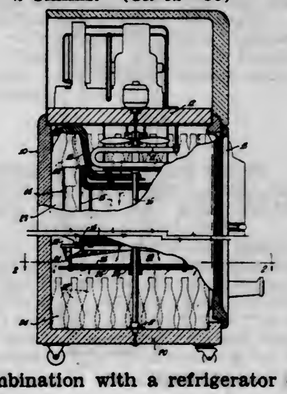
1. A rotary internal-combustion engine comprising an element including an annular cylinder and having a slot open laterally and extending continuously of the cylinder around the axis around which the cylinder is developed annular, another element having an annular portion concentric with and projecting through the slot into and terminating in a piston in the cylinder, one such element being rotative around said axis, an oscillator element oscillatory around said axis and having an annular portion also concentric with and projecting through the slot into and terminating in a piston in the cylinder, the second-named element and oscillatory element forming between their pistons an explosion space and together closing the slot in coincidence with such space, means, operatively connecting the first two elements and operatively connected to the oscillatory element, for oscillating the latter, and a sealing ring concentric with said axis and supported by one of the parts which comprise the first-named element and one of the other two elements and projecting into the slot and adjustable in a direction into or out of the slot.

2,284,187
SIDE LOADING HEARSE MECHANISM
Melvin A. Crosby and David E. Bench, Dayton, Ohio, assignors to Commonwealth Engineering Corporation, Wilmington, Del., a corporation of Delaware
Application April 14, 1941, Serial No. 388,507
21 Claims. (Cl. 214—83)



1. In a hearse, means for supporting a casket and independent hydraulic means having different power output and operating in a predetermined ratio for rotating said support a determined angular increment for each increment of longitudinal travel.

2,284,188
BAFFLE PLATE FOR PRECOOLER
Tully De Stefani, Chicago, Ill., assignor to Bastian-Blessing Company, Chicago, Ill., a corporation of Illinois
Application September 26, 1940, Serial No. 358,391
2 Claims. (Cl. 62—89)



1. In combination with a refrigerator cabinet

having a dispensing chamber with article supporting means disposed therein, and a pre-cooling chamber arranged below said dispensing chamber, of baffle means suspended from said article supporting means, said baffle means comprising corresponding slidable portions whereby communication between said dispensing chamber and said pre-cooling chamber may be varied.

2,284,189
BRAKE CONTROL MECHANISM
Burns Dick, Ferguson, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application January 10, 1941, Serial No. 373,873
11 Claims. (Cl. 192—3)



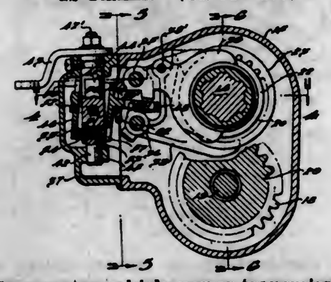
1. The combination with a motor vehicle provided with an accelerator mechanism and with fluid pressure actuated brakes comprising a fluid motor for actuating the brakes, a source of pressure and conduit means for placing the source in communication with the motor, of valve means comprising a combined gravity and inertia controlled ball associated with the conduit means for causing the valve means to be closed when the vehicle is stopped and thus prevent return flow of fluid to the source and to be open when the vehicle is decelerating, a small by-pass passage around the valve means, a needle valve element for closing said by-pass, and means for controlling the needle valve element by the accelerator mechanism, said means being so associated with the accelerator mechanism and the valve element that said valve element will be closed when the accelerator mechanism is in "off" position and open when the accelerator mechanism is in other positions.

2,284,190
PROTECTIVE INSULATION FOR LINEMEN
Russell M. Evans, Carrollton, Ohio, assignor to The Surety Rubber Company, Carrollton, Ohio, a corporation of Ohio
Application June 23, 1941, Serial No. 399,254
2 Claims. (Cl. 227—27)



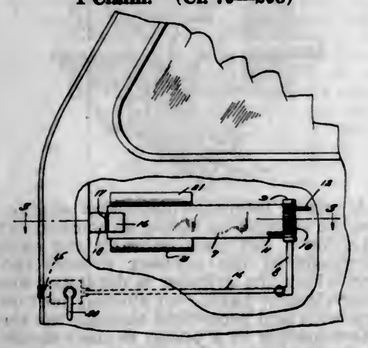
1. In combination with a lineman's climber having a shank portion with a stirrup at its lower end to receive the lineman's foot, and an ankle strap connected to said stirrup, an insulation overshoe for the lineman's foot and insulation flaps upon the sides of the overshoe positioned to be bound against the lineman's ankle by said ankle strap.

2,284,191
VARIABLE SPEED TRANSMISSION MECHANISM
Otto E. Fishburn, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application May 2, 1940, Serial No. 332,910
12 Claims. (Cl. 74—477)



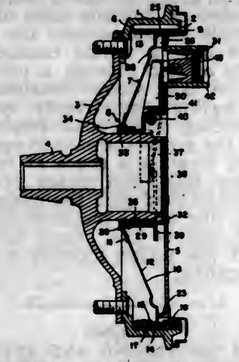
1. In a motor vehicle power transmission having a pair of selectively operable drive control elements, a pair of rails mounted for shifting movement relative to each other along parallel axes, means operably connecting said rails respectively with said drive control elements, an operating member mounted for oscillatory movement about an axis transverse to said parallel axes to impart shifting movement to said rails, a selector element pivotally mounted on said operating member for swinging movement relative thereto about an axis transverse to said axis of oscillation for selectively operably connecting said operating member with said rails, means urging said selector element into operable engagement with one of said rails, said element having a portion adapted for engagement with the other rail to lock the same against shifting, means for swinging said element to operably engage said other rail and simultaneously unlock the same for shifting and means for operating said oscillating member.

2,284,192
AUTOMOBILE DOOR LOCK
William K. Freeman, Cincinnati, Ohio
Application January 7, 1941, Serial No. 373,511
1 Claim. (Cl. 70—208)



A lock for an automobile door having a horizontal slot in the outside thereof, said lock comprising a bolt adapted to be mounted in the free edge of the door for projection and retraction, an elongated plate adapted to fit flush in said slot, means to mount one end of the plate on said door for swinging of its other end inwardly of the slot and comprising a vertically extending rock shaft adapted to be journaled inside said door and provided with a lateral arm on one end thereof, a rod operatively connecting said arm to said bolt for retraction of the bolt under swinging of said plate inwardly of the slot, and a key operative second bolt on said other end of said plate adapted for coaction with a keeper on said door.

2,284,193
FRICTION COUPLING
Phelps M. Freer, Detroit, Mich.
Application August 2, 1940, Serial No. 349,883
13 Claims. (Cl. 188—78)



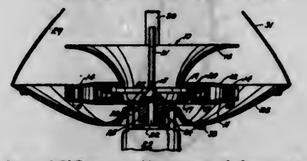
1. In a friction coupling, the combination of relatively rotatable elements, one of said elements having an internal friction face and the other of said elements comprising a radially movable friction member engageable with said friction face, a resilient dished disc operatively connected at its periphery to said friction member, and a member having a resilient connection with said disc for holding said disc from rotation relative to said member.

2,284,194
INDIRECT LIGHTING SYSTEM
Arthur Gangbin, Madera, Calif., assignor of fifty per cent to Irol G. Gangbin, Fresno, Calif.
Application July 1, 1940, Serial No. 343,450
4 Claims. (Cl. 240—9)



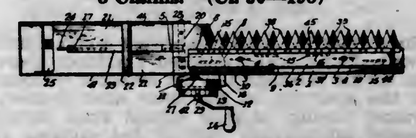
1. In an indirect lighting system for building structures, an upwardly opening relatively long cove trough, a light source in and extending along said trough, means forming a longitudinal transversely concave reflecting surface in the building structure above said trough and mainly laterally offset relative to the latter, other means forming an inverted longitudinal channel opening from above through said surface intermediate the edges thereof laterally offset relative to the trough and extending substantially for the length of the trough, and a separate light source in and extending along said inverted channel.

2,284,195
HUMDIFIER
Harry Goodman and Vachel S. Dillingham, Oklahoma City, Okla.
Application June 26, 1940, Serial No. 342,522
5 Claims. (Cl. 261—30)



1. A humidifier unit comprising: a rotor in the form of a centrifugal type peripherally bladed fan which includes at least two concentric narrowly spaced solid discs, one of which has a concentric central opening affording communication in an axial direction between the atmosphere and the space between the discs; a substantially conical concentric feeder hub carried by the other disc, its tip or pointed end projecting axially toward the opening in the first mentioned disc; a plurality of annular baffles on the inner surface of each disc, said baffles forming a sinuous radial path therebetween; power means for driving said rotor; and a feed tube extending thru the opening in one of said discs and into the space between them for delivering liquid directly onto the surface of said feeder hub.

2,284,196
HEDGE TRIMMER
Edward Gramps, Valparaiso, Ind.
Application April 17, 1941, Serial No. 388,973
8 Claims. (Cl. 30—198)



1. A hedge trimmer comprising a sickle member, an adjustable arm support therefor, a cutting member reciprocatable adjacent the sickle member, attachable and detachable driving means for actuating the cutting member, and means for fixedly and adjustably holding said cutting means in different angular positions to the arm support.

2,284,197
RELEASING SAFETY HOOK
Howard H. Greene, Oklahoma City, Okla.
Application August 2, 1941, Serial No. 405,257
3 Claims. (Cl. 24—236)

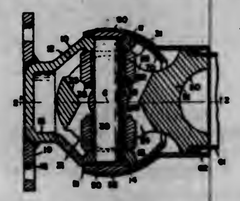
1. A safety hook for releasably connecting a bailed object to a suspended line comprising: An elongated flat body adapted to have its upper end connected to the line; a pair of downwardly sloping bail holding slots cut into a side edge of said body, and located one above the other; and resilient means spanning the mouth of the uppermost one of said said slots only, and project-

ing unattached into the lowermost slot and lying flat along its uppermost wall for positively guiding a ball from the upper slot directy into the lower slot, the guiding means being so positioned



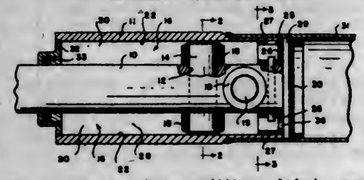
as to normally afford free entrance of a ball into or out of said lower slot, and said means being movable to afford ball entrance into the upper slot from the interior of the lower slot only.

2,284,198
UNIVERSAL JOINT
Anton F. Greiner, Detroit, Mich.
Application December 15, 1938, Serial No. 245,961
1 Claim. (Cl. 64—17)



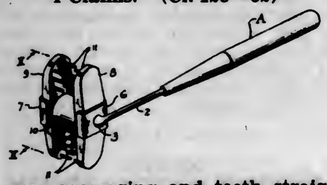
In a universal joint comprising a cup member having diametrically opposed apertures therein and having substantially flat surfaces surrounding the apertures at the inner sides thereof, a member having laterally spaced arms forming opposed substantially parallel flat surfaces and having a transverse portion connecting the arms at the free ends of the latter, the arm portions of the member extending into the cup member, a pin spanning the laterally spaced wall portions of the arms and having the opposite ends rotatably mounted in apertures respectively formed in the arms, said pin having a center portion provided with flat opposed surfaces extending substantially parallel to the surfaces aforesaid on the cup member, a second pin received at its ends in the apertures formed in the cup member and having an intermediate portion extending through an aperture formed in the flattened central portion of the first pin, rollers freely rotatably mounted on the second pin at opposite sides of the flattened central portion of the first pin and having a rolling engagement with the opposed substantially parallel flat surfaces on said arms, the opposite sides of the flattened central portion of the first pin cooperating with the flat surfaces on the cup member to hold the rollers against shifting movement axially of the second pin.

2,284,199
TORQUE TRANSMITTING SLIP JOINT
Anton F. Greiner, Detroit, Mich.
Application January 8, 1940, Serial No. 313,006
4 Claims. (Cl. 64—23)



4. In a torque transmitting joint, an elongated hollow member having diametrically opposed longitudinally extending grooves in the inner surface thereof, a shaft extending into the hollow member and having a diameter substantially less than the internal diameter of the hollow member, a pair of rollers respectively rotatably mounted on opposite sides of the shaft and respectively extending into the grooves in a manner to have a rolling engagement with the side walls of said grooves, a piston secured to the shaft in axial spaced relationship to the rollers and having diametrically opposed outwardly extending projections respectively extending into the grooves, means at opposite sides of the piston forming a space at each side of the piston for fluid, and means providing for restricted flow of fluid past the piston from the space at one side of the piston to the space at the opposite side of the piston upon relative movement of the hollow member and shaft in opposite directions.

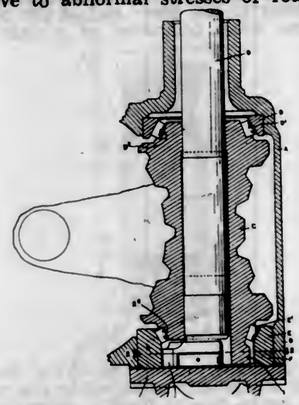
2,284,200
GUM MASSAGING AND TEETH STRENGTHENING DEVICE
Francis J. Gruss, San Francisco, Calif.
Application November 12, 1940, Serial No. 365,155
4 Claims. (Cl. 128—62)



1. A gum massaging and teeth straightening device comprising a handle, a shank secured to one end of the handle and at right angles thereto, a pair of spaced head members carried by the shank, rubber massaging tips formed at each end of each head and pointing toward each other, said head members and the rubber tips carried thereby being flexible throughout their length, a rubber sleeve carried by the shank and disposed between the head members, and detachable means on the shank to permit application or removal of the head members and sleeve from the shank.

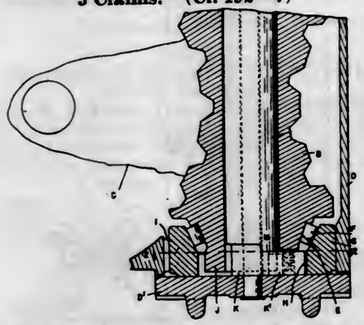
2,284,201
VEHICLE STEERING GEAR
Charles F. Hammond, Grosse Pointe, Mich., assignor to Gemmer Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application May 8, 1941, Serial No. 392,562
6 Claims. (Cl. 192—7)

1. In a steering gear, the combination with a steering stem and a member to be actuated thereby, of torque transmission means intermediate said stem and member normally operable by the latter with a reaction close to but slightly without the angle of friction, and means responsive to abnormal stresses or road shocks



applied to said member for shifting said reaction in the torque transmitting means to be within the angle of friction and thereby effecting a locking action.

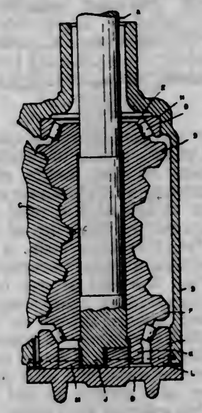
2,284,202
SHOCK ABSORBING STEERING GEAR
Charles F. Hammond, Grosse Pointe, and Harper E. Pulleyblank, Detroit, Mich., assignors to Gemmer Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application May 8, 1941, Serial No. 392,563
5 Claims. (Cl. 192—7)



1. In a steering gear, the combination with a steering stem, of a gearing including a worm sleeved upon said stem, a casing enclosing said gearing, a non-revoluble rigid annular member within said casing adjacent to one end of said worm and concentric therewith, segments respectively on said worm and stem projecting into said annular member in the same plane therewith but on opposite sides of the axis, and a floating member between said segments and annular member adapted to revolve freely with said stem and worm when actuated by the former and to lock with said annular member when actuated by the worm.

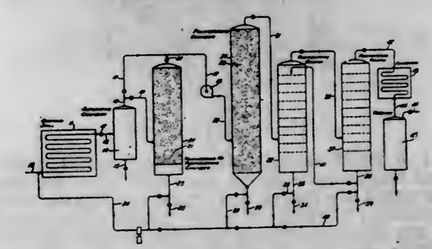
2,284,203
ROTARY SNUBBER
Charles F. Hammond, Grosse Pointe, Mich., assignor to Gemmer Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application August 25, 1941, Serial No. 408,243
4 Claims. (Cl. 192—7)

1. A snubber comprising coaxially arranged inner and outer rotary members, eccentric bearings on said members radially spaced from each other and on opposite sides of their common axis, a stationary annular member surrounding said eccentric bearings having an inner surface concentric with said axis, a member carried by the bearing of said inner rotary member having a portion occupying the space between the same and the bearing on the outer rotary member with a slight clearance and another portion ex-



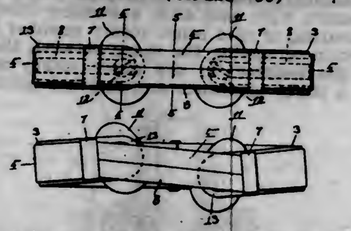
tending into proximity to the concentric inner surface of said stationary annular member on the same side of the axis as said inner bearing, the first-mentioned portion constituting a couple between said rotary members effective when driven by the inner member after taking up said slight clearance, and the last-mentioned portion being adapted to frictionally engage the inner surface of said stationary annular member when actuated by said outer rotary member.

2,284,204
REFINING OF PETROLEUM HYDROCARBONS TO PRODUCE GASOLINE
William T. Hancock, Long Beach, Calif.
Application January 10, 1940, Serial No. 313,224
1 Claim. (Cl. 196—96)



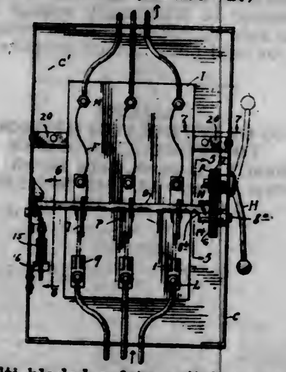
The process of refining petroleum hydrocarbons that includes, subjecting the hydrocarbons to vaporization and extensive cracking, subjecting the vapors to polymerization by contacting them with adsorptive material at relatively low pressure, separating from the vapors such polymers as will form at said low pressure, then compressing the vapors and subjecting them to polymerization in contact with adsorptive material at relatively high pressure, separating from the vapors those polymers forming at said high pressure, and finally subjecting the polymerized vapors to condensation to produce gasoline.

2,284,205
TRUSS CONSTRUCTION
Julius E. Hansen, Rochester, N. Y.
Application October 18, 1940, Serial No. 361,768
5 Claims. (Cl. 128—89)



1. In a truss construction the combination of a pair of metal straps, a pair of flexible and yieldable waist bands on the inside of said metal straps for adjustable and yieldable connection of the ends of the straps at the rear of the truss, a truss pad carried by the end of each of said straps at the front of the truss, a flexible and yieldable connecting member extending over said metal straps from the end of one of said straps to the end of the other of said straps at the rear of the truss and fixedly sewed to each of said waist band sections to a point spaced from the point of attachment of said pads rearwardly of the truss to provide a flexible and yieldable connection between said straps at the front of the truss from the far sides of said pads.

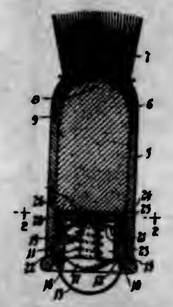
2,284,206
SAFETY SWITCH
Arthur J. Harmon and Walter G. Coakley, Chicago, Ill.
Application October 14, 1940, Serial No. 361,026
5 Claims. (Cl. 200—17)



1. A multi-bladed safety switch in which pivoted blades mounted on the front of an insulating panel are moved downwardly to engage fixed terminals, a switch-throwing crank at the front of the panel pivoted at the sides thereof and engaging the blades to operate them, a handle mounted to swing at the side of the panel, and meshing gears secured to the handle and to the end of the crank for reversing the applied movement so that the handle is swung upwardly to close the switch and downwardly to open it.

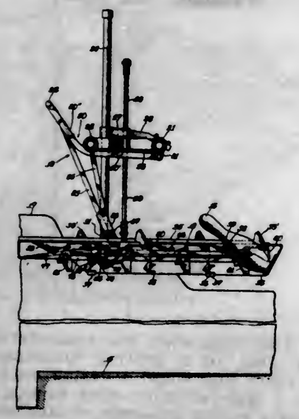
2,284,207
SHAVING BRUSH
John Smith Hawkins, North Bay, Ontario, Canada
Application December 1, 1941, Serial No. 421,089
4 Claims. (Cl. 15—137)

1. In a brush having bristles, a body having a cylindrical chamber with a dispensing orifice leading into the bristles and open at an end, a plug adjustable axially in the chamber thereof, a resilient diaphragm transversely arranged in the chamber at the inner end of the plug, said diaphragm being composed of a pair of disc



members centrally united, one of the disc members being marginally attached to the plug and the other being free to form a sealing juncture with the bore of the chamber, and a plunger carried by the plug for inwardly bulging the diaphragm.

2,284,208
PIN SETTING MACHINE
Ernest Hedenskoog, Muskegon, Mich., assignor to The Brunswick - Balke - Collender Company, Chicago, Ill., a corporation of Delaware
Application February 12, 1940, Serial No. 318,485
19 Claims. (Cl. 273—42)



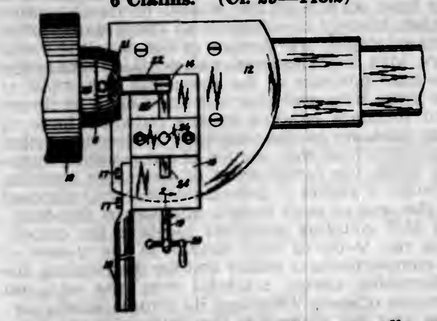
1. A pin setting machine for bowling alleys comprising, in combination, a support, a frame guided in said support for vertical movement toward and from the alley bed, said frame having pockets for receiving and supporting pins in a reclining position, including a rest for the base of a pin capable of supporting a pin until the same contacts the alley bed, pin spotting mechanism mounted on said frame operable only after the frame contacts the alley bed and as a result of such contact including jaws operable to engage and up-end a pin prior to disengagement thereof from said pin base rest and without contact between the pin and the alley bed, and means operable by an attendant to place said frame upon the alley bed and thereafter actuate said pin spotting mechanism.

2,284,209
NOVELTY OR FLAG DISPLAY
Charles B. Holm, Lyons, Ill.
Application July 9, 1941, Serial No. 401,665
9 Claims. (Cl. 116—173)



8. In a novelty display device, a flexible flag having a hem arranged along one edge and a second hem arranged along another edge at right angles to the first mentioned edge of the flag, a staff for said flag, a vibrating means for the staff, a vibration transmitting spring secured to the staff, a flexible supporting arm extending into the first hem and connected with said spring, a weight connected to said arm, and a flexible element in the second hem and adjustably and detachably connected to the staff.

2,284,210
METHOD OF CLOSING THE ENDS OF TUBULAR BODIES
Arthur B. Johnson, University Heights, Ohio, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a corporation of Ohio
Application December 5, 1939, Serial No. 307,663
6 Claims. (Cl. 29—148.2)



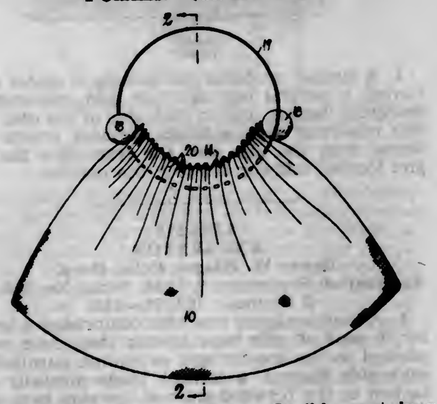
1. The method of closing the normally open end of a steel tubular member which consists of axially rotating said member, feeding against said member near the open end thereof the blunt end of a tool and gradually swinging said tool over the end of said member around an axis perpendicular to the center axis of said member, the rotary speed of said member together with the pressure of said tool against said member being such as to heat that end portion of said member into a readily deformable condition, said tool being made to first engage said member at a predetermined distance from the open end thereof to cause upon swinging movement of said tool over the end of said member within an arc of about ninety degrees the gradual reduction of the diameter of said end portion into a closed domelike end wall.

2,284,211
METHOD OF AND MEANS FOR CUTTING WELL CASINGS OR PIPES
George E. Justice, Houston, Tex., assignor to Houston Oil Field Material Company, Inc., Houston, Tex., a corporation of Delaware
Application May 12, 1941, Serial No. 393,641
24 Claims. (Cl. 164—9.3)



1. A pipe-cutting device for lowering into a pipe in a well bore including, a housing having a plurality of openings therein, cutting means movable within the housing and through the openings, means for orienting the cutting means within the housing, means for guiding the cutting means through said openings and into engagement with the wall of the pipe whereby a cut may be made, and means for interlocking the cutting means and said housing may be rotated so that a cut may be made.

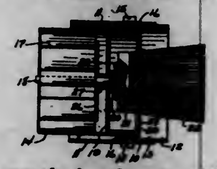
2,284,212
HANDBAG
Willie Mae Kansow, Knoxville, Tenn.
Application May 29, 1940, Serial No. 337,891
4 Claims. (Cl. 150—10)



1. A handbag comprising a flexible container

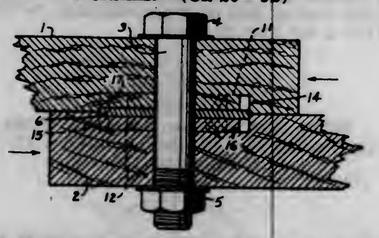
having an opening and a spring steel looped member having its ends overlapping each other and occupying parallel positions and extending in opposite directions and having an inherent resiliency to press the overlapping ends towards each other, the overlapping ends being secured to the container on opposite sides of the opening, whereby the looped member serves as a handle for the bag and the overlapping ends normally hold the opening in closed position.

2,284,213
BRUSH
Steve Karas, Gary, Ind.
Application July 14, 1941, Serial No. 402,403
2 Claims. (Cl. 15—29)



1. A hose nozzle brush comprising, a casing, a fluid impelled rotor in the casing, a stator for the rotor, a longitudinal guide slot formed in the casing, a spacing lug betwen the stator and the casing secured to the stator, a guide pin engaged through the slot and connected to the lug for slideably connecting the stator to the casing, a brush in the casing rotated by the rotor, means on the stator for deflecting the exhaust from the rotor in a radial direction against the brush, and a flexible collar forming the end of the casing adapted to engage a surface upon which the brush is operating.

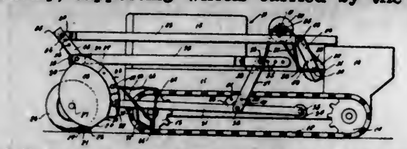
2,284,214
TIMBER COUPLING
George L. Kelly, Houston, Tex.
Application July 21, 1939, Serial No. 285,729
2 Claims. (Cl. 20—92)



1. A timber coupling comprising a metal disc having a central bolt aperture and outstanding marginal flanges, one on each side of the disc, inside relatively narrow fillets, forming braces integral with the disc and the respective flanges and located midway between the notches.

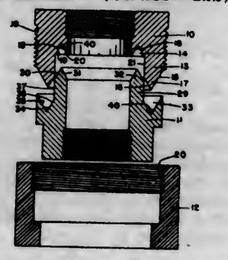
2,284,215
EXCAVATOR
Henry W. Kläges, Echo, Oreg.
Application September 9, 1940, Serial No. 356,057
3 Claims. (Cl. 37—144)

1. A land scraping machine comprising a tractor, a pair of side bars having their rear ends pivoted to the tractor and extending parallel on each side thereof, a scraper blade pivotally attached to the forward ends of the side bars, adjusting bars carried by the upper portion of the scraper blade adapted to extend rearwardly therefrom, manual means carried by the tractor for moving the adjusting bars forwardly or rearwardly, supporting wheels carried by the ends



of the scraper blade and foot members secured to the rear of the scraper blade adapted to engage the ground whereby reverse movement of the tractor will elevate the scraper blade in spaced relation from the ground surface.

2,284,216
HIGH PRESSURE UNION
Elsy O. Kunkel, Sandoval, Ill., assignor of one-half to Otto E. Ellick, Covington, Ky.
Application June 27, 1941, Serial No. 400,062
2 Claims. (Cl. 285—122)



1. A high pressure coupling comprising a pair of separable coupling members each of which includes a forwardly projecting tongue the free outer edge of which terminates in a V-tip having a base portion, a recessed socket portion the bottom of which terminates in a V-seat likewise having a base portion, and an annular cylindrical wall extending a substantial distance between the base portion of the V-tip of a tongue and the base portion of the V-seat of its associated socket, thereby to establish an exaggerated offset reltaionship of the V-seats of the coupling members, with the cylindrical wall portions separating the base portions of the seats and tips, while at the same time overlying one another to be forced into intimate contact by the outward force of high pressure in the coupling, the tongue, socket and cylindrical wall portion of one coupling member being the complement of the other coupling member, a gasket of deformable material disposed in the seat of each socket, and means for drawing said coupling members together for embedding the V-tip of each tongue in the V-seat of its complementary socket and for distributing the deformable gasket material over the adjacent portions of each V-tip and its complementary V-seat and for disposing the cylindrical walls of the respective coupling members in substantially coplanar parallelism throughout their respective lengths.

2,284,217
TOOTHBRUSH PACK
Robert H. Lieberthal, Bridgeport, Conn.
Application February 27, 1941, Serial No. 380,765
3 Claims. (Cl. 132—84)

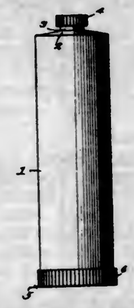
1. In combination a body having a longitudinal open topped recess in its top wall to receive a collapsible tube of dentifrice having a discharge

nozzle at one end, said body having a longitudinal recess below said first recess to receive the handle of a tooth brush, pins projecting inwardly from opposite sides of the recess, a tooth brush having a bristle head and a handle slidable lon-



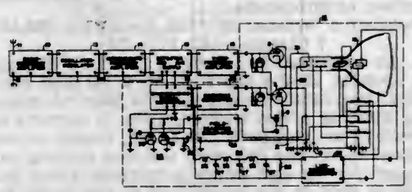
gitudinally in said second recess to bring said bristle head to a position under the nozzle to receive dentifrice therefrom, and longitudinal grooves in the side of the handle to receive said pins to retain the handle in the said recess.

2,284,218
DISPENSING CONTAINER
Jay Kelly Livingston, Houston, Tex.
Application December 19, 1940, Serial No. 370,892
1 Claim. (Cl. 116—114)



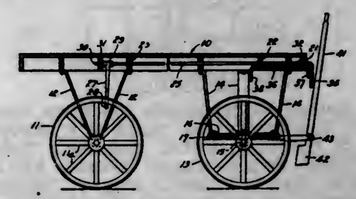
In a device for indicating the depletion of tooth paste and the like, a container having an outlet, a piston mounted to slide in the container, a piston-actuator threadedly engaging and extending through the piston, and a tubular signal sleeve of such diameter and so arranged as to emerge at times through the outlet, the sleeve being removably mounted on the actuator and having detachable abutment against the piston, the actuator being prolonged to a place closely adjacent to the outlet, to guide the sleeve to the outlet when the paste nears depletion.

2,284,219
SIGNAL WAVE FORM INDICATING SYSTEM
Arthur V. Loughren, Great Neck, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware
Application November 26, 1940, Serial No. 367,248
24 Claims. (Cl. 171—95)



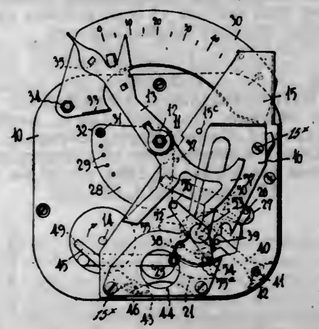
1. A system for visually indicating at least a portion of the wave form of a television signal comprising, a cathode-ray tube having an input circuit adapted to have applied thereto a television signal to modulate the ray of said tube, said applied signal including synchronizing-signal components, means for periodically deflecting the ray of said tube in each of two directions normal to each other, means for controlling said deflecting means to maintain said deflections in synchronism with the synchronizing-signal components of said applied signal, and means for maintaining a predetermined phase displacement between one of said deflections and a corresponding one of said synchronizing-signal components.

2,284,220
LOCKING DEVICE FOR VEHICLE WHEELS
Anthony V. Mandekic, Los Angeles, Calif.
Application October 31, 1941, Serial No. 417,367
7 Claims. (Cl. 188—31)



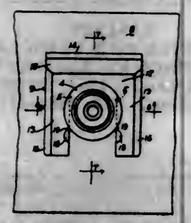
1. The combination, with the frame and ground wheels of a vehicle; of a bar turnably mounted upon said frame, said bar having one of its end portions deflected and positionable by the turning of the bar into a locking position between adjacent spokes of a wheel of the vehicle, the opposite end portion of said bar being laterally deflected thereby forming a handle means for turning the bar.

2,284,221
PARKING METER
John B. McGay, Tulsa, Okla., assignor to Dual Parking Meter Company, Oklahoma City, Okla., a corporation of Delaware
Application February 13, 1939, Serial No. 256,210
12 Claims. (Cl. 194—45)



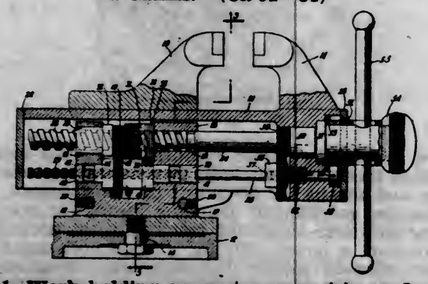
4. A parking meter comprising a time-indicating mechanism including an indicating member and means for driving it in one direction, a resetting mechanism including means for resetting said time-indicating member in the opposite direction, a power unit for driving both means, coin-released means for normally restraining the operation of said driving means, and means responsive to deposited coins of different sizes for causing a part of the resetting mechanism to move predetermined distances dependent upon the sizes of the coin deposited.

2,284,222
METHOD OF MOUNTING FASTENING DEVICES
William H. Miller, Royal Oak, Mich., assignor to The Flex-O-Tube Company, Detroit, Mich., a corporation of Delaware
Original application September 11, 1939, Serial No. 294,299, now Patent No. 2,244,427, dated June 3, 1941. Divided and this application May 14, 1940, Serial No. 335,096
3 Claims. (Cl. 29—148)



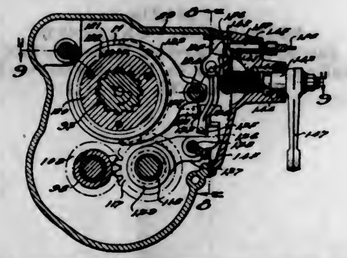
1. A method of detachably mounting tubular members to a support by means of a removable and rigid fastening device, comprising forming a bifurcated wedged-shaped member which is adapted to straddle a tubular member, longitudinally bending the leg portions of said bifurcated member to reinforce the same and prevent the same flexing transversely of their lengths, pressing locking indentations on the inner sides of the legs of the bifurcated member, transversely bending the closed end portion of said bifurcated member to reinforce the same and prevent flexing of said member about an axis parallel to the longitudinal axis of said leg portions, forming diametrically opposed grooves in the outer walls of the tubular member, which grooves when associated with an adjacent support provide an exposed groove depth substantially equal to the depth between parallel planes engaging the upper and lower groove-engaging surfaces of the fastening device and into which said fastening devices can be forcibly driven without substantial flexing thereof, and forcibly inserting said bifurcated member in said grooves with the raised portions of the indentations engaging the outermost wall portion of said grooves to secure said tubular member to said support.

2,284,223
WORK-HOLDING APPARATUS
Porter S. Morgan, Hartford, Conn., assignor to The Capewell Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application September 20, 1940, Serial No. 357,530
12 Claims. (Cl. 81—34)



1. Work-holding apparatus comprising a fixed jaw member, a movable jaw member, a pair of rods having continuous threads rotatably supported by and connecting said jaw members, means for rotating said rods synchronously to effect closing of said jaws, and means associated with both of said rods and rotated by one of said rods when said movable jaw member is pulled away from or pushed toward said fixed jaw member to permit quick adjustment of said jaw members.

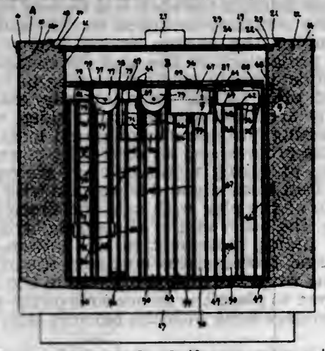
2,284,224
POWER TRANSMISSION
Carl A. Neracher, William T. Dunn, Teno Iavelli, Augustin J. Syrovy, and Otto W. Schotz, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Original application May 9, 1939, Serial No. 272,734. Divided and this application April 29, 1940, Serial No. 332,190
3 Claims. (Cl. 74—473)



1. In a motor vehicle power transmission having a pair of selectively operable drive control elements, a pair of rails mounted for shifting movement relative to each other along parallel axes, means operably connecting said rails respectively with said drive control elements, an operating member mounted for oscillatory movement about an axis transverse to said parallel axes to impart shifting movement to said rails, a lever pivotally mounted on said operating member for swinging relative thereto about an axis transverse to said axis of oscillation for selectively operably connecting said operating member with said rails, a remotely disposed shiftable transmission control lever, means for mounting said control lever for shifting movement along transversely connected paths of the same general direction, means including a Bowden cable for imparting swinging movement to said pivotally mounted lever in response to shift of said control lever between said paths, and means including links for oscillating said operating member in response to shift of said control lever along said paths.

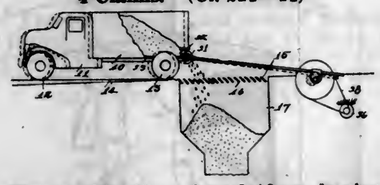
2,284,225
DISPENSING CABINET
Robert B. Norris, St. Louis Park, Minn., assignor to Schaefer, Inc., Minneapolis, Minn., a corporation of Minnesota
Application October 28, 1940, Serial No. 363,104
7 Claims. (Cl. 312—71)

1. In combination a cabinet having a dispensing opening at the top thereof, a vertical guide within the cabinet comprising a pair of spaced rods forming a slot therebetween, a support for a stack of articles to be dispensed, means on said support extending into said slot and guiding said support for up and down movement along said guide, a stop at the upper end of the guide and at the locality of the dispensing opening in the cabinet for engagement with the uppermost article of the stack, and resilient means for urging the support upwardly and the uppermost article into engagement with the stop, the articles being manually removable one at a time from the stack and from beneath the stop, said resilient



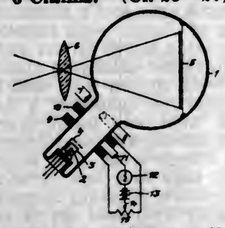
means upon removal of the uppermost article bringing the following article into position for removal.

2,284,226
WAGON DUMP DEVICE
Richard W. Oglesby, Des Moines, Iowa
Application February 23, 1940, Serial No. 320,457
4 Claims. (Cl. 214—44)



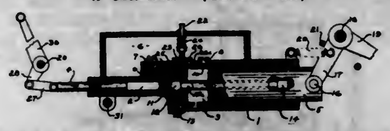
1. The combination of a platform having one end slightly higher than the other, a grain pit at the lower end of said platform, a transversely arranged shaft below said platform and adjacent to the other end of said grain pit, an eccentric on the inner end of said shaft, a push rod fixed to said eccentric, one end of said push rod extending across said grain pit, means for detachably connecting said end of the push rod to the discharge end of a vehicle with said discharge end over the grain pit, and means for rotating said shaft whereby the bottom of the bed of said vehicle will be oscillated toward and from its discharge end, and material within said body discharged into said pit.

2,284,227
MAGNETIC ELECTRON LENS
Hans Werner Paehr, Berlin-Charlottenburg, Germany, assignor to Fernseh G. m. b. H., Berlin-Zehlendorf, Germany
Application December 29, 1939, Serial No. 311,604
In Germany January 10, 1939
6 Claims. (Cl. 25—27)



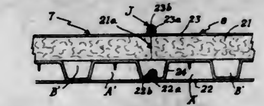
5. The combination with a cathode ray tube having a screen lying obliquely to the electron optical axis of the tube and an electron gun producing a cathode ray of elongated cross section, of two focusing coils surrounding a part of the tube, of a source of potential feeding the coils with current of opposite direction, of an iron-hydrogen resistance element in the path of the total current and of a single potentiometer for varying the amount of current flowing through each coil without altering the total current.

2,284,228
PRESSURE MULTIPLYING MECHANISM
Herbert E. Page, Syracuse, N. Y.
Application March 18, 1940, Serial No. 324,515
2 Claims. (Cl. 60—52)



1. In a pressure multiplying mechanism, the combination of a body element including piston chambers of different diameters arranged in axial alinement, an intermediate chamber, and a reservoir for a hydraulic fluid overlying like sides of the alined piston chambers and communicating with the piston chambers through check valve controlled passages extending radially relatively to the piston chambers and communicating with the intermediate chamber and the larger piston chamber through radial passages having normally-closed release valves, the smaller piston chamber communicating with the intermediate chamber through a check valve controlled passage, the larger piston being formed with a pressure chamber extending lengthwise thereof, an open passage connecting the intermediate chamber and the pressure chamber in the larger piston and a check valve controlled by-pass between the intermediate chamber and the larger piston chamber, a prime mover for actuating the smaller piston, and motion transmitting means operated by the larger piston.

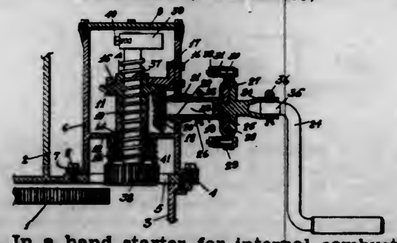
2,284,229
METAL WALL BUILDING CONSTRUCTION
George Vincent Palmer, Los Angeles, Calif.
Application August 19, 1940, Serial No. 353,165
5 Claims. (Cl. 189—34)



1. A panel structure for use in building construction, which comprises: two spaced substantially flat external sheet members defining surfacing layers; a flat insulating member disposed between said flat sheet members and secured to one of said members; and a spacing member disposed between said insulating member and the other of said sheet members, said external sheet members being provided with tongue and groove interlocking elements at opposed edges thereof for interlocking assembly of a plurality of such panel structures in contiguous alined relationship, said tongue and groove interlocking elements in one of said external sheet members being extended outwardly to form a projecting overlapping joint between such contiguous alined panels, the ends of said insulating member being so positioned with respect to said interlocking

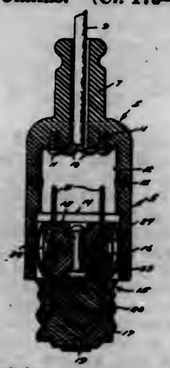
elements as to produce substantial abutment of the adjacent edges of insulating sheets in adjacent panels when such panels are disposed in such contiguous alined relationship, and said spacing member being bent to form with said insulating member a plurality of elongated hollow cells extending parallel to the plane of said insulating member.

2,284,230
HAND STARTER FOR INTERNAL COMBUSTION ENGINES
Albert M. Porter, Newton, Kans.
Application November 15, 1941, Serial No. 419,331
3 Claims. (Cl. 123—185)



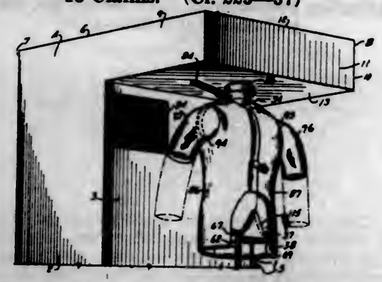
1. In a hand starter for internal combustion engines comprising a housing having two open ends, a threaded shaft centrally positioned in the housing, the ends of the shaft being adjacent their respective open ends of the housing, and an internally threaded sleeve member to receive said threaded shaft to move the shaft longitudinally when the sleeve is turned, means to rotatably carry said threaded sleeve member, a starter gear secured to one end of the threaded shaft adjacent one open end of the housing, and a plate to close the other end of the housing, a weight element eccentrically secured to the other end of the threaded shaft, a gear secured to the rotatable sleeve element and a gear in mesh therewith to turn the same, a crank and means to connect the crank to said last gear to turn the sleeve element.

2,284,231
ELECTRIC CONNECTOR
Garfield Price, Gary, Ind.
Application March 27, 1941, Serial No. 385,536
2 Claims. (Cl. 173—343)



1. In an electric connector, an insulated casing having one end open with its interior of cylindrical shape in cross section, contact strips extending longitudinally in the casing and located at opposite sides thereof, means for connecting the strips to conductors, a plug of non-conducting material having a snug fit in the casing and removable through the open end thereof and said plug being rotatably arranged in the casing, the open end of the casing having bayonet slots therein, projections on the plug for engaging the slots and detachably holding the plug in the casing, said plug having longitudinally extending oppositely arranged grooves in its sides, contact strips passing through the plug and located adjacent the grooves and an outwardly bowed contact strip of spring metal in each groove, with one end bent inwardly and connected with a contact strip of the plug with said end embedded in the plug, the other end of the spring strip being free for sliding movement in the bottom of the groove, said bowed strips engaging the strips of the casing when the plug is inserted in the casing, and turned to place the projections of the plug in locking engagement with the bayonet slots of the casing.

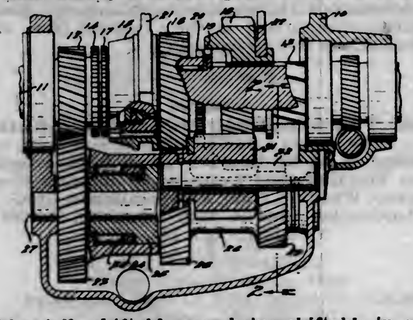
2,284,232
METHOD OF AND APPARATUS FOR FINISHING GARMENTS
John H. Richa, Kansas City, Mo., assignor of one-half to Charles B. Jones, Kansas City, Mo.
Application January 2, 1940, Serial No. 311,981
16 Claims. (Cl. 223—57)



1. The method of finishing a fabric garment including, clothing the garment upon an inflatable and permeable bag while the bag is in deflated condition, distending the garment to its normal shape by inflating the bag with a pressure medium, simultaneously subjecting the fabric of the garment to the inflating medium by permeation of the inflating medium through the bag into contact with the garment, and applying pressure to the exterior of the garment.

2,284,233
POWER TRANSMISSION
Otto W. Schotz, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application February 6, 1941, Serial No. 377,597
7 Claims. (Cl. 74—333)

1. In a power transmitting mechanism including a torque input gear and a driven gear coaxial therewith, sets of clutch teeth respectively driven with said gears, a sleeve driven with said driven gear and shiftable axially to clutch with the set of clutch teeth driven with said input gear; countershaft gearing including a first gear in constant mesh with said input gear, a second gear in constant mesh with said driven gear, and a third gear driven from said second gear, a clutch between said first and second gears accommodating relative rotation thereof when said sleeve is clutched with said set of clutch teeth as aforesaid; a torque output shaft, an axially shiftable gear driven with said shaft, a set of clutch teeth driven with the last mentioned gear adapted to clutch with the set of clutch teeth driven with said driven gear in response to shift of said axially shiftable gear in one direction,



said axially shiftable gear being shiftable in another direction to mesh with said countershaft third gear; and a reverse idler shiftable axially to operably connect said axially shiftable gear and said countershaft third gear when the latter gears are demeshed.

2,284,234
GAUGE CONSTRUCTION
Hans Seegers, Chicago, and Willard L. Pollard, Evanston, Ill., assignors to Jas. P. Marsh Corporation, Chicago, Ill., a corporation of Illinois
Application November 3, 1938, Serial No. 238,566
4 Claims. (Cl. 285—157)



1. A sub-assembly for a pressure gauge comprising a supporting connector having an internally threaded socket with a substantially flat bottom wall, a Bourdon tube having an externally threaded countersunk end to provide a conical seat, a perforated disc-like sealing member having an annular knife-edge flange engaging said bottom wall and an annular portion, rounded in axial cross-section having annular line engagement with said conical seat.

2,284,235
ATOMIZER
Carl Bonzi, Zurich, Switzerland
Application December 6, 1939, Serial No. 307,738
3 Claims. (Cl. 128—185)

2. An apparatus for atomizing a medicament intended for treating the skin and wounds comprising in combination: means for producing ionized steam including an atomizer nozzle for discharging ionized steam in atomized condition; means for producing ozonized gas, including an atomizer nozzle for discharging the ozonized gas in atomized condition; and means including a medicament container and a medicament supply lead extending into the medicament container and communicating with one of the said atomizer nozzles, said means for producing ionized steam



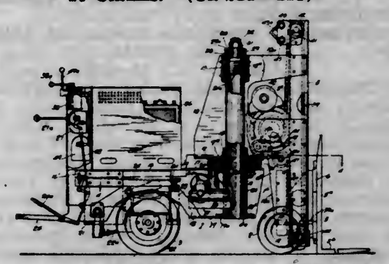
comprising two metallic layers connected respectively with the two poles of a high tension source and an intermediate metallic layer, all said layers being mounted upon the said steam atomizer nozzle.

2,284,236
DEVELOPING PROCESS
Hinsdale Smith, Springfield, Mass., assignor to Hinsdale Smith, Jr., Springfield, Mass.
Application November 9, 1940, Serial No. 365,066
3 Claims. (Cl. 95—88)



1. The method or processing an exposed sensitized sheet or the like having a paper side and a silver halide emulsion side including, placing the sheet on the curved bottom surface of a tray with its paper side lowermost, causing the same to adhere to said surface by capillary attraction, treating the emulsion with an alkaline developing solution for a sufficient time to develop the exposed silver halide of the emulsion and then treating said emulsion with an acid thiosulfate fixing solution for a sufficient time to remove unexposed silver halide whereby the upper surface will be in an acid condition and the under surface in an alkaline condition when treatment is complete.

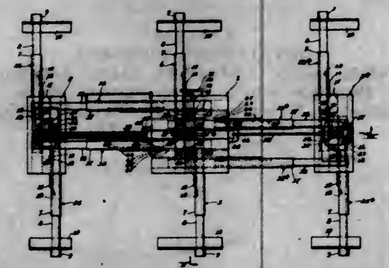
2,284,237
INDUSTRIAL TRUCK
Herbert A. Stevenson, Grosse Pointe Park, Mich.
Application June 7, 1940, Serial No. 339,309
19 Claims. (Cl. 214—113)



1. In an industrial truck, the combination of a frame comprising a main section and a separate section, said sections having overlapping inner end portions, a pivot for pivotally connecting said inner end portions together, power means on one of said sections, a pair of wheels adjacent the outer end of each frame section arranged to cooperate with the pair of wheels for the other

frame section to support said frame, certain of said wheels being drivingly connected to said power means, a load carrier mounted to move upwardly and downwardly on one of said frame sections outwardly of the inner end portion of the other frame section, power means on one of said sections for operating said carrier, means interconnected between the inner connected ends of said frame sections for swinging them laterally about their pivotal connection for steering the truck, and devices for controlling the operation of each of said power means and said swinging means.

2,284,238
HOIST GRAB
John W. Todd, Ben Avon, Pa.
Application September 16, 1941, Serial No. 410,975
11 Claims. (Cl. 294—67)



1. In a hoist grab, the combination of a frame adapted to be suspended from a support, arms positioned at oppositely-disposed sides of the frame each formed of an inner section carried by the frame and an outer section carried by and movable longitudinally with and relatively to said inner section, the outer ends of said outer section being provided with depending load-engaging jaws, jaw-positioning connections for simultaneously extending each of said inner arm sections from and retracting them toward the frame, and connections between the inner and outer sections of each arm for longitudinally extending or retracting the latter relatively to the former when the former is extended or retracted, respectively.

2,284,239
WHITE GOODS
Theodore B. Wagner, deceased, late of Brooklyn, N. Y., by Caroline W. Wagner, executrix, Brooklyn, N. Y.
No Drawing. Application January 31, 1940, Serial No. 316,545
10 Claims. (Cl. 99—80)

3. The process of manufacturing decorticated, decapped and degerminated Indian corn substantially free from corn oil, which comprises treating Indian corn with from about 2 to about 8 times its weight of an aqueous alkaline solution devoid of deleterious amounts of calcium containing a soluble alkali having in solutions of one tenth normal strength a pH of at least about 12.0, said aqueous alkaline solution containing an amount of soluble alkali titratably equivalent to about 2 grams to about 10 grams of NaOH per liter, the greater the weight of said alkaline solution the less the concentration of soluble alkali, and said alkaline solution having a temperature of at least 100° F. and not greater than the temperature of gelatinization of corn starch; continuing to treat said Indian corn until the germs, tip-caps and hulls are loosened; detaching said germs, tip-caps and hulls from the endosperms and gluten; and separating said germs, tip-caps and hulls from said endosperms and gluten whereby decorticated, degerminated and decapped Indian corn is obtained as whole kernels substantially in their original form and substantially free from corn oil.

2,284,240
RAIL FOR OVERHEAD MONORAIL CARRIER SYSTEMS
William G. Wehr, East Cleveland, Ohio, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio, a corporation of Ohio
Application April 26, 1940, Serial No. 331,766
5 Claims. (Cl. 104—109)



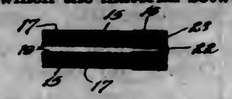
1. A rail for an overhead underslung carrier system comprising: an elongated body portion including flanges extending along the entire length of the lower part thereof, said body portion having substantially the elongation characteristic of mild steel having approximately .15% to .25% carbon; and carrier wheel engaging tread portions on the upper surfaces of said flanges and extending the full length thereof, said tread portions being formed of hard wear resisting material having a Brinell hardness of approximately 300 to 500 deposited thereon in a fused state and welded or fused thereto.

2,284,241
CORROSION INHIBITION
James H. Wernts, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 13, 1939, Serial No. 273,426
15 Claims. (Cl. 106—14)

1. A ferrous metal having its surface coated with a thin film consisting of an aliphatic acid-ester of a polycarboxylic acid, in which the aliphatic radical is a member of the group consisting of acyclic aliphatic, cyclohexyl and naphthenyl radicals and contains at least 6 carbon atoms, said ester consisting of the elements carbon, hydrogen and oxygen.

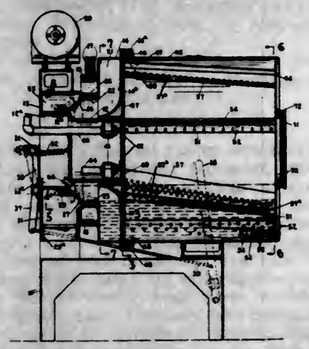
2,284,242
ONE-PIECE FOLDABLE GAME BOARD
Henry Ziemmerman, Chicago, Ill., assignor to Chicago Cardboard Company, Chicago, Ill., a corporation of Illinois
Application March 18, 1940, Serial No. 324,513
6 Claims. (Cl. 273—136)

1. A foldable game board comprising a single sheet of cardboard or similar material with a hinge of the material itself, having a reduced neck at the fold line at one side of the board, the other side having a groove defined by parallel cuts extending partially through the material from which the material between the cuts



has been removed to the depth thereof, and a binding and backing adhesive tape applied along the exposed edges of the cuts, groove and reduced neck when the board is folded in closed position.

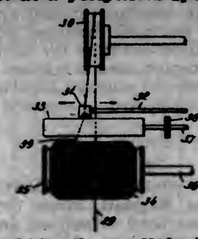
2,284,243
WASHING MACHINE
John Zimarik, Akron, Ohio
Application July 12, 1938, Serial No. 218,803
31 Claims. (Cl. 68—58)



13. A machine of the character described comprising a drum adapted to rotate about a substantially horizontal axis, said drum having a single-shell treating compartment and a liquid supplying and emptying chamber, said compartment being in communication with said chamber, said emptying chamber having an outlet, a valve operable at will to close said outlet to retain liquid in the drum or to open said outlet and permit liquid to be conveyed from the drum, lifting vanes in said chamber operable by rotation of the drum for lifting liquid from the drum, and hollow ribs in said treating compartment, means in said ribs for forcibly expelling liquid axially of the drum from the bottom of said compartment and into the path of said vanes as the drum is rotated.

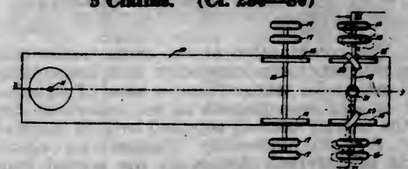
2,284,244
PROCESS AND APPARATUS FOR WINDING FILAMENTS
John William Allquist, Rome, Ga., assignor to Tubize Chatillon Corporation, New York, N. Y., a corporation of Delaware
Application October 5, 1938, Serial No. 233,403
9 Claims. (Cl. 18—8)

6. In apparatus for winding plastic rayon filaments, the combination which comprises a rotatable bobbin upon which the filaments are wound, means for rotating the bobbin, a guide through which the filaments pass on their way to the bobbin, said guide being reciprocable through a stroke in a direction transverse to that of filament passage and substantially parallel to the axis of rotation of the bobbin, a godet disposed in the path of the filaments from the guide to the bobbin, said godet having a cylindrical surface at least as long as the stroke of the guide and being rotatable around an axis substantially parallel to that of the bobbin, and means for rotating the godet at a peripheral speed in excess of



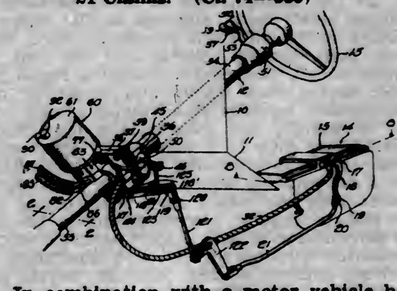
that of the bobbin, the coefficient of friction between the filaments and the cylindrical surface being such that the higher peripheral speed of the cylindrical surface is transmitted at least in part to the filaments.

2,284,245
MULTIPLE AXLE MOUNTING FOR TRAILERS
Allyn L. Ayers, Oakland, Calif.
Application April 7, 1941, Serial No. 387,117
5 Claims. (Cl. 280—80)



1. In a vehicle: a frame; supporting means for the frame including tandem fixed and tracking axles; arcuate bearing pads secured on the tracking axle adjacent its ends; other pads resting on said arcuate pads and movable with respect thereto; transversely spaced leaf springs interposed between said frame and said other pads and secured to said other pads; means guiding said tracking axle for swinging movement about a central vertical axis lying between said axles; means including a tie rod for connecting said other pads together; and means for locking the tie rod and tracking axle together to prevent swinging of said tracking axle during backing.

2,284,246
GEAR SHIFTING MECHANISM
Henry Baade, Detroit, Mich., assignor to Automatic Shifters, Inc., Richmond, Va., a corporation of Virginia
Application June 8, 1938, Serial No. 212,591
21 Claims. (Cl. 74—335)



1. In combination with a motor vehicle hav-

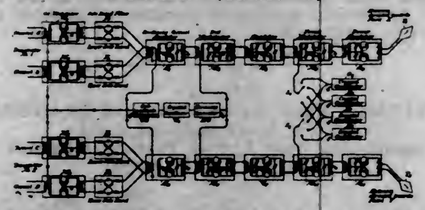
ing a steering column provided with a steering wheel at its upper end, and a transmission provided with a shiftable transmission operating member movable from a neutral position to different transmission setting positions, a motor supported by the steering column and connected to actuate said shiftable member, control mechanism of the follow-up type for said motor supported by said motor, and a control handle supported by the steering column adjacent the steering wheel and connected to operate said control mechanism.

2,284,247

RADIO SIGNALING SYSTEM

Vernon Bernard Bagnall, West Orange, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York

Application February 26, 1941. Serial No. 380,595
5 Claims. (Cl. 250—9)



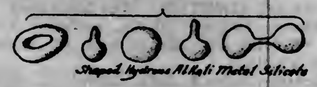
1. The combination of two radio transmitters, a carrier generator common to both transmitters, and means for transmitting a band of signals by one of said transmitters as an upper side band of the carrier current supplied by said generator and for simultaneously transmitting another band of different signals by the second transmitter as a lower side band of the same carrier current of said generator, whereby said two radio transmitters will separately transmit the two side bands of said carrier current without interference with each other so that said two side bands may be separately utilized.

2,284,248

MANUFACTURE OF SHAPED PARTICLES OF HYDROUS ALKALI METAL SILICATES

Chester L. Baker, Penn Wynne, and Charles H. Dedrick, Drexel Hill, Pa., assignors to Philadelphia Quartz Company, Philadelphia, Pa., a corporation of Pennsylvania

Application February 16, 1939, Serial No. 256,818
14 Claims. (Cl. 252—135)



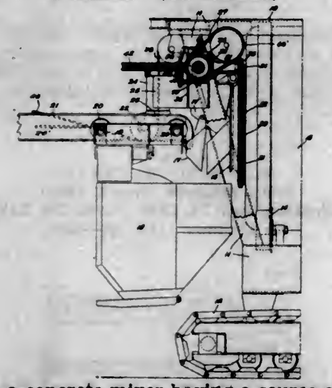
1. In the manufacture of solid particles of hydrous alkali metal silicates in the shape of globules, vermicelli, bowls, dumbbells, discs, rings, drops, rods, threads, sheets and the like, the process which comprises introducing liquid particles, having such shapes and consisting of a concentrated aqueous alkali metal silicate solution containing not substantially less than 2 molecules of SiO_2 to 1 molecule of alkali metal oxide, under substantially quiescent conditions into a dehydrating liquor, capable of producing a gelatinous precipitate upon being mixed with said silicate solution, thereby producing the partial dehydration of said shaped particles without substantial solution thereof, and separating the resulting hydrous silicate particles, having such shapes from said dehydrating liquor.

2,284,249

BOOM SWING MECHANISM FOR CONCRETE MIXERS

Charles F. Ball, Wauwatosa, and Louis G. Hilkemeier, Milwaukee, Wis., assignors to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin

Application June 26, 1939, Serial No. 281,298
2 Claims. (Cl. 104—92)



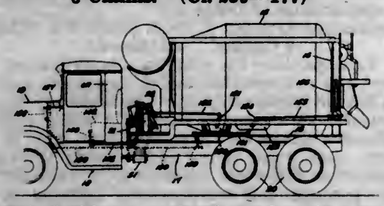
1. In a concrete mixer having a source of power, a boom mounted for horizontal oscillatory movements, a distributing bucket mounted on said boom for reciprocatory traverse thereon, and traversing cables connected to said bucket, mechanism for transmitting power from said source to oscillate the boom and to reciprocate the bucket, comprising an input shaft uni-directionally driven from said power source; a driving member carried by said shaft; a pair of driven members constantly driven in opposite directions by said driving member; a normally stationary driven shaft having driving connections with said boom; means for selectively alternatively connecting said driven shaft to either of said constantly oppositely rotating driven members, whereby to swing the boom in one direction or the other; and a power take-off drive element carried by each of said driven members and constantly rotating in opposite directions therewith, for transmitting power to said traversing cables to move the bucket on the boom in one direction or the other.

2,284,250

INTERLOCKING MECHANISM FOR POWER TRANSMISSIONS

Charles F. Ball, Wauwatosa, and Louis G. Hilkemeier, Milwaukee, Wis., assignors to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin

Original application January 3, 1940, Serial No. 312,286. Divided and this application September 10, 1940, Serial No. 356,216
6 Claims. (Cl. 259—177)



1. Interlocking mechanism for the power transmissions of truck-mounted concrete mixers,

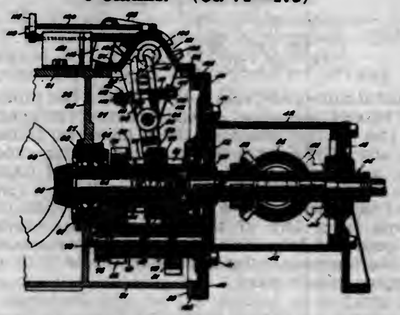
which transmissions include a clutch and means for controlling the same, and a change-speed mechanism and actuating means therefor, said interlocking mechanism comprising a locking member carried by said actuating means; a rock-shaft; a dog carried by said rock-shaft, engageable with said locking member to prevent operation of said actuating means when said clutch is engaged; an arm carried by said rock-shaft; and a link connected with said clutch controlling means, and having a lost-motion connection with said arm, whereby movement of said control means to disengage the clutch may release said dog from the locking member when the clutch is fully disengaged.

2,284,251

CLUTCH SHIFTING MECHANISM

Charles F. Ball, Wauwatosa, and Louis G. Hilkemeier, Milwaukee, Wis., assignors to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin

Original application January 3, 1940, Serial No. 312,286. Divided and this application September 10, 1940, Serial No. 356,217
8 Claims. (Cl. 74—473)



1. In a device for shifting and controlling a clutch or like mechanism, a shifting member engageable with a portion of said mechanism; a pair of arms mounted one to either side of a portion of said shifting member; a yielding connection between said member and each of said arms; and means for actuating and controlling said shifting member, comprising a cam mounted for engagement with a portion of each of said arms, whereby movements of the cam may be transmitted through said arms and yielding connections to the shifting member to cause a change of position of the mechanism controlled thereby, said cam also acting to spread the arms relative to one another against the action of said yielding means upon movement of the parts from a predetermined position of the controlled mechanism, whereby reaction of the yielding means and arms will cause the parts to seek and tend to maintain such predetermined position of the mechanism.

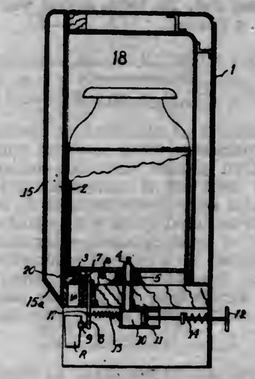
2,284,252

LIQUID DISPENSING DEVICE

Julian C. Barreda, Flushing, and Harold J. McLaughlin, Brooklyn, N. Y.

Application July 25, 1939, Serial No. 286,424
4 Claims. (Cl. 221—67)

1. In a liquid dispenser, the combination of a liquid container having a dispensing valve at its lower end, a chamber having a door and having a floor provided with an opening over which said dispensing valve normally rests in proper position to deliver liquid from said container to an open-top receptacle, a valve-control means operable by pressure of said open-top receptacle thereagainst so as to effect the flow of liquid through said dispensing valve into said receptacle while said pressure is maintained, said valve-control means being cooperative with said



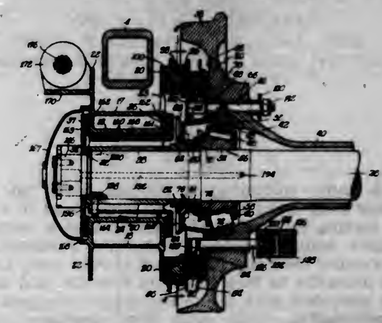
valve to cause the flow of said liquid to cease when said pressure is omitted, and controlling means for disconnecting said valve-control means from said valve when the door is opened, thereby to permit the liquid container 2 to be removed and replaced while free from interference with or by said valve-control means.

2,284,253

ROTOR BRAKE

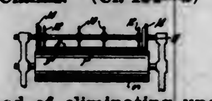
Walter H. Baselt and Carl E. Tack, Chicago, Ill., assignors to American Steel Foundries, Chicago, Ill., a corporation of New Jersey

Application July 3, 1940, Serial No. 343,770
31 Claims. (Cl. 188—153)



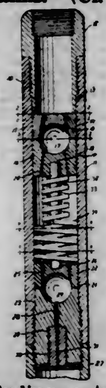
1. In a vehicle, a frame member, a supporting wheel and axle assembly comprising a wheel, rotating and nonrotating axles, a sleeve positioned on the end of said nonrotating axle, a journal box having inboard and outboard walls encircling said sleeve, a plate abutting said sleeve, braking means comprising rotors and stators supported respectively from said wheel and the inboard wall of said journal box, actuating means supported from said inboard wall and operable to bring said rotors and stators into frictional engagement, resilient pads compressed between said journal box and said sleeve and plate for cushioning relative movement between said journal box and said nonrotating axle, and a resiliently mounted torque arm connecting said frame member and the outboard wall of said journal box.

2,284,254
METHOD OF TREATING COMPOSITE STRIP PRODUCTS
Clements Batcheller, Glens Falls, N. Y., assignor to Allegheny Ludlum Steel Corporation, a corporation of Pennsylvania
Application July 20, 1938, Serial No. 220,326
4 Claims. (Cl. 154—2)



1. The method of eliminating undulations in a rollable composite strip product comprising a facing of thin gauge corrosion-resistant alloy steel and a backing of comparatively yieldable sheet material adhesively secured to said facing which comprises producing a substantially linear deformation of said product extending through said undulations in a direction longitudinally of said product; the depth of said linear deformation being insufficient to prevent said product from being easily rolled in the direction thereof.

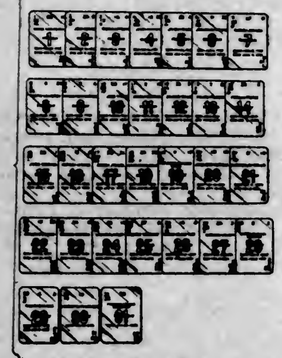
2,284,255
CHOKE
Frank W. Baureschmidt, Galena Park, Tex., assignor to Larsen-Boles Tool Company, Incorporated, Houston, Tex.
Application August 19, 1939, Serial No. 290,975
11 Claims. (Cl. 259—4)



1. A choke including, a tubular body, an insertable plug located near the upper end of said body having flow passages therein and a central chamber communicating with said passages, a plug located near the lower end of said body having a plurality of flow passages therein said plug being provided with a central spherical chamber communicating with said flow passages, and means confined between the said plugs for whirling and agitating a fluid passing therethrough.

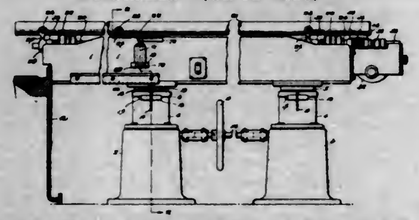
2,284,256
CARD GAME
Paul J. Benrath, La Grange, Ill.
Application June 13, 1938, Serial No. 213,437
6 Claims. (Cl. 273—152)

2. In a card game a pack of cards having three groups of cards, comprising a month group, a presidential group and a numeral group, the month group having a card for each month of the year, each card bearing in its central portion a numeral "1" in red color and on each of its upper left-hand and lower right-hand corners the same numeral in red color, the presidential group having a card for each of the thirty-one men who has served as president of the United States, each of these cards having the name of one of said men thereon with a red number in the center corresponding to the numerical order of the serving of that man as president with a corresponding red numeral on each of its upper left-hand and lower right-hand corners and other different colored numerals on a plurality of edges within the range of 1 to 31, the numeral group bearing one to a card in sequence in red color



central numerals from 2 to 31, and a red numeral on two of the edges of each card corresponding to the central numeral, there being no numeral on any of the cards of the three groups exceeding a numeral equal to the number of days in the longest month of the year, whereby groups may be formed with a month card first and other cards from any of the three groups following in sequence from "2" to a number corresponding to the number of days in the month of that particular month card.

2,284,257
DEVICE FOR FEEDING RODS OR TUBES IN GRINDING MACHINES OR THE LIKE
John Erik Bergström, Halmstad, Sweden
Application December 21, 1939, Serial No. 310,374
In Sweden March 4, 1939
3 Claims. (Cl. 51—236)



1. Feeding table for feeding rods or tubes in grinding machines comprising a table arranged at the side of the grinding machine, a number of single rotary supporting rollers mounted on said table in alignment with each other and adapted to support the work in the proximity of the highest points of said supporting rollers, a number of side bearing rollers being freely rotatably mounted on said table and adapted to abut against the work and to maintain the position of the latter on top of said supporting rollers, a longitudinal straight and undivided common drive shaft for said supporting rollers passing centrally through bores in said supporting rollers, means for rotating said drive shaft, means for transmitting the rotary motion of the drive shaft to said supporting rollers, means for supporting and freely rotatably journalling said supporting rollers independently of said drive shaft about axes, being perpendicular to the drive shaft, and a common regulating rod interconnecting said supporting rollers and adapted to turn them simultaneously, even during the grinding operation, about said axes to oblique positions in relation to the work.

2,284,258
LUBRICATING COMPOSITION
Benjamin T. Brooks, New York, N. Y., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Original application March 18, 1937, Serial No. 131,628. Divided and this application January 6, 1940, Serial No. 312,688
3 Claims. (Cl. 252—54)

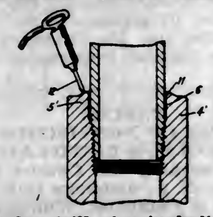
1. A lubricating composition comprising a mineral lubricant and a small amount of an oleone.

2,284,259
CRIMPING DEVICE
John Burkhardt, Cleveland, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application March 1, 1940, Serial No. 321,643
5 Claims. (Cl. 86—40)



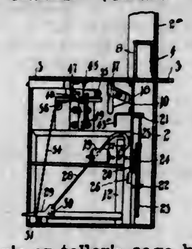
5. A crimping tool especially adapted for crimping shells of blasting initiators and the like, which is comprised of a spring disc formed in the shape of a truncated cone and so slotted as to form a series of segments radiating about the circumference of a central hole or minor base of the truncated shape which is of a size to receive the article to be crimped, and a flexing means for the said spring disc including a housing which confines the major diameter of the disc and a hollow plunger guided by a central hole in the housing, and levers cooperating with said housing and said plunger.

2,284,260
METHOD OF MAKING SEALING SUPPORTS FOR TOOL JOINTS
Leopold J. Castellanos, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a corporation of Delaware
Application November 15, 1940, Serial No. 365,729
1 Claim. (Cl. 29—148.2)



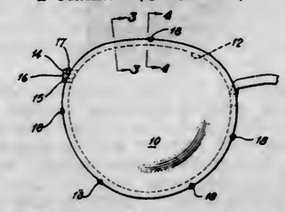
In a joint for drill pipe including a pipe section having a threaded engagement with a tool joint member, the process of relieving the lateral strains on the threaded portion of the pipe comprising forming a lip on the end of the tool joint member, said lip extending beyond the threaded portion to overlap the unthreaded portion of the pipe, upsetting the metal at the end of said extending lip of the joint inwardly so as to engage the pipe in firm supporting engagement along a substantial surface about the pipe.

2,284,261
CASHIER'S AND TELLER'S CAGE
Harry Chlopecky, Toronto, Ontario, Canada
Application September 13, 1940, Serial No. 356,713
8 Claims. (Cl. 109—17)



1. A cashier's or teller's cage having an opening through which business can be conducted; a vertically movable closure for said opening; guides for the closure; means for operating said closure comprising an electric motor; an arm connected to the shaft of said motor; a vertically movable rod engaging by free abutting relation with said closure; a bearing in which the rod is slidably mounted; a link pivotally connected at one end to said arm and at the other end to said rod, whereby the rod is raised and owered when the motor is operated, said rod being adapted to raise the closure to closed position when said rod is raised; and means for locking the closure in its closed position.

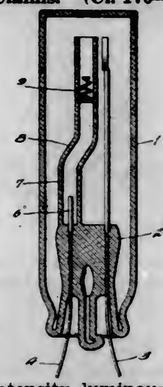
2,284,262
SPECTACLE MOUNTING
Wesley R. Churchill, Hollywood, Calif.
Application February 13, 1940, Serial No. 318,715
1 Claim. (Cl. 88—47)



A spectacle structure, comprising a lens, the perimeter of which is formed with a bevel rearwardly and inwardly from the forward face of the lens to the rear face, a rim adapted to embrace the perimeter of said lens and lie along said beveled face, the section of said rim being triangular, whereby the outer perimeter of the rim will agree in dimensions and contour with the perimeter of the lens as defined by the forward face thereof, the rim having a beveled face complementary to the beveled face of the lens and lying thereagainst, the rear face of the rim lying in the plane of the rear surface of the lens, prongs carried by the rim at spaced intervals along its perimeter and hooking forwardly over the edge of the front face of the lens whereby the rim and lens will be held in intimate fixed contact, the rim being interrupted at a point in its perimeter, the contiguous edges thereof being

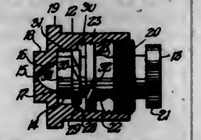
spaced from each other, lugs extending laterally from said contiguous ends and to which a temple bar is pivoted, and a screw passing through the lugs and a temple bar, whereby the rim will be drawn tightly around the lens and the temple bar will be pivotally held.

2,284,263
HIGH INTENSITY LUMINOUS TUBE
Richard U. Clark, Fort Wayne, Ind.
Application December 9, 1940, Serial No. 369,145
7 Claims. (Cl. 176—122)



1. A high intensity luminous tube consisting in a gas filled envelope and an anode and cathode sealed within said envelope, said anode being entirely of porous metal composed of non-alkali gettering sintered metal particles.

2,284,264
FUEL BURNER
George B. Crisp, Brooklyn, N. Y.
Application March 4, 1939, Serial No. 259,779
2 Claims. (Cl. 299—120)



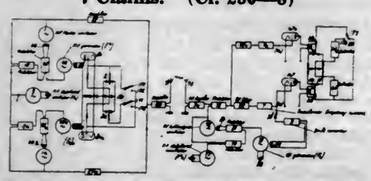
1. An atomizer for fuel burners, comprising a tip and plug, said tip having a forward wall with a central orifice and with a frowardly extending central boss, said forward wall having a rear annular flat face substantially entirely behind and reinforced by said boss, said tip also having a rearwardly extending cylindrical side wall open at the rear thereof and threaded thereat on the inside of said cylindrical wall, and said plug having a forward annular flat end in flatwise engagement with and of less diameter than the said flat rear annular face of the forward wall of the tip and located entirely behind said boss of the tip, a peripheral flange on the plug spaced rearwardly from said forward annular end thereof, the outer periphery of said flange having a slidable rotatable fit with said inside cylindrical wall of the tip so as to provide an annular chamber between said tip and plug, and said plug providing a solid depth of metal from the forward annular flat end for a distance lengthwise of the plug beyond the rear of said flange, another and more rearward flange on said plug having peripheral screwthreads intermitting with the screwthreads in said tip for tightly and forcibly seating the forward annular flat end of the plug against the rear annular flat face of said forward wall of the tip where reinforced by said boss and prevent leakage past said plug to said orifice, said plug having fuel passages from the rear thereof to the said annular chamber and from the annular chamber to the said orifice.

2,284,265
METHOD OF COVERING BALLS
Victor H. Hurt, Cranston, R. I., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application April 29, 1941, Serial No. 390,877
7 Claims. (Cl. 154—19)



1. The method of providing a ball body with a jointless outer cover which comprises, unevenly distributing cover forming windings of tensed plastic material on a ball body with the material thickest at opposed poles and decreasing in thickness toward the equator, and then compacting and evenly distributing the cover material on said body by molding in a spherical mold.

2,284,266
SYSTEM FOR SIGNALING BY ELECTROMAGNETIC WAVES
Henri Jean Joseph Marie de Regnauld de Bellescize, Neuilly-sur-Seine, France
Application April 7, 1938, Serial No. 200,612
7 Claims. (Cl. 250—8)

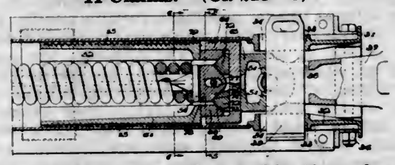


1. In a communication system utilizing a plurality of electromagnetic signal waves, a method of substantially lessening both in amplitude and speed accidental changes undergone by the frequency of each of said electromagnetic waves, while allowing of independent systematic changes in each frequency, which comprises providing an auxiliary wave of stable frequency relatively elose to the frequencies of the electromagnetic waves, separately generating a plurality of local oscillations of natural frequencies tuned to the frequency differences of the said auxiliary stable and said first mentioned electromagnetic waves and therefore relatively low, controlling these differences by means of the local oscillations, and imparting the intended systematic changes to the natural frequencies of these oscillations.

2,284,267
STABILIZATION OF NONVISCOUS CRACKED PETROLEUM DISTILLATES
Frederick B. Downing and Charles J. Pedersen, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 3, 1940, Serial No. 351,118
21 Claims. (Cl. 44—9)

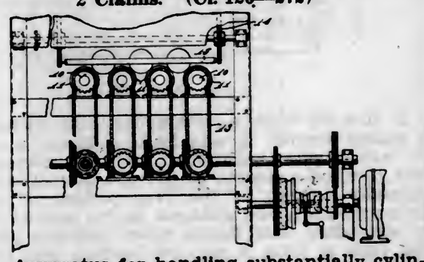
1. The method of inhibiting the catalytic deterioration of a non-viscous cracked petroleum distillate normally caused by vanadium and its compounds in the presence of oxygen which comprises incorporating in the said distillate a small proportion of an aldehyde-amine condensation product of the Schiff's base type identical with that obtained by condensing 1 mol of an aliphatic polyamine containing at least two primary amino groups directly attached to different carbon atoms of the same open chain with at least 2 mols of an ortho-hydroxy substituted aromatic aldehyde, so that not more than one mol of aldehyde reacts for each primary amino group of the amine.

2,284,268
CAR CONSTRUCTION
Otho C. Duryea, Waterbury, Conn., assignor to O. C. Duryea Corporation, Wilmington, Del., a corporation of Delaware
Application June 5, 1940, Serial No. 339,028
11 Claims. (Cl. 213—8)



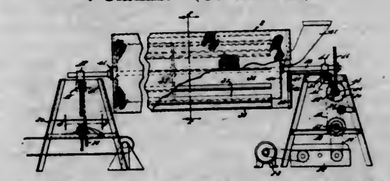
1. In a railway car, the combination of a car bolster, a draft and buffing column movable longitudinally relative to said bolster, means for cushioning relative movement between said column and bolster and including a spring extending outwardly from said bolster, a coupler mounted on said column for movement of limited extent relative thereto and for further movement therewith, and friction means interposed between the outer end of said spring and said coupler for resisting relative movement between said coupler and column, said friction means comprising cooperating friction elements maintained in frictional relation by said spring and relatively movable by said coupler during its movement of limited extent, said friction means moving as a unit with said column during said further movement.

2,284,269
APPARATUS FOR PROCESSING THE CONTENTS OF SEALED CANS
Edward C. Eberts, Indianapolis, Ind., assignor to Stokely Brothers & Company, Inc., Indianapolis, Ind., a corporation of Indiana
Application March 11, 1938, Serial No. 195,247
2 Claims. (Cl. 126—272)



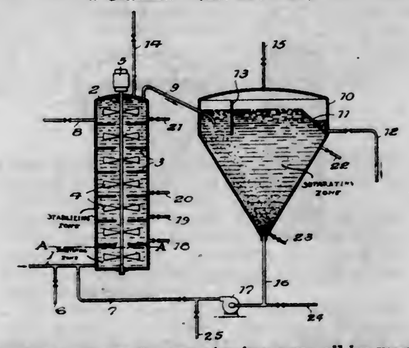
1. Apparatus for handling substantially cylindrical charged cans, comprising a recumbent can guide along which the cans may be transported axially, said guide comprising a series of means spaced longitudinally of the guide by which said cans may be intermittently rotated about their axes while moving axially along said guide, and means for propelling said cans axially along the guide, the spacing of said spaced means being such that the cans will not be rotated as they pass from one to another.

2,284,270
METHOD AND APPARATUS FOR GRADING AND INDIVIDUALLY FREEZING VARIOUS ARTICLES
Edward C. Eberts and Kenneth M. Eberts, Indianapolis, Ind.; said Edward C. Eberts assignor to Stokely Brothers & Company, Inc., Indianapolis, Ind., a corporation of Indiana
Application December 24, 1938, Serial No. 247,652
7 Claims. (Cl. 62—102)



6. Apparatus for maintaining individualism of flowable edible particles, such as peas and lima beans, during freezing, comprising a recumbent perforate drum arranged to rotate about its axis and having an inlet at one end and an outlet at its other end, a plurality of perforate partitions extending axially of said drum and projecting inwardly thereof and arranged in said drum to cooperate therewith to form a cylindrical series of troughs, means extending axially of the drum and closing the inner sides of said troughs, whereby independent streams of flowable particles are established, and means for producing a flow of freezing air currents transversely of the axis of said drum and through said streams.

2,284,271
PROCESS FOR SWEETENING SOUR HYDROCARBON OILS
Leslie U. Franklin and Walter H. Weeks, Port Arthur, Tex., assignors to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application July 12, 1939, Serial No. 284,116
2 Claims. (Cl. 196—29)



1. In a process for sweetening sour oil by means of a solid and substantially dry treating agent comprising a solid substance capable of ionizing to give cupric ions and chloride ions, maintaining a continuous cyclic flow of said solid agent in suspension in oil through a sweetening zone, a stabilizing zone, and a separating zone, con-

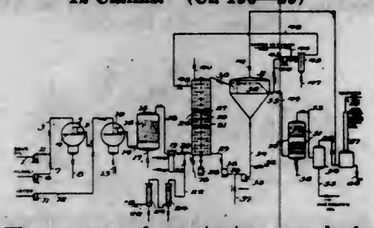
tinuously introducing sour oil and oxygen into said sweetening zone, and continuously separating and removing treated oil from the cycle at a point where the oil in the cycle is sweet and free from oil-soluble cuprous chloride and cuprous mercaptides.

2,284,272

PROCESS FOR SWEETENING LIGHT PETROLEUM DISTILLATES

Leslie U. Franklin, Walter H. Weeks, and Jack W. Harris, Port Arthur, Tex., assignors to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania

Application July 12, 1939, Serial No. 284,117
12 Claims. (Cl. 196—29)



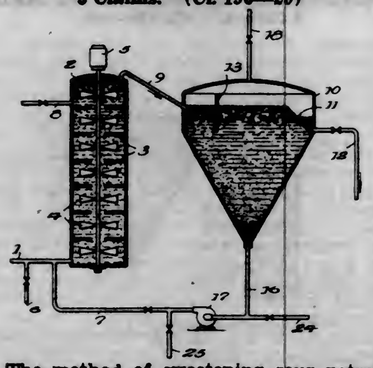
1. The process of sweetening sour hydrocarbon oils containing mercaptans, which comprises passing a flow of said oil, oxygen and a suspended solid treating agent comprising (1) a substance capable of ionizing to give cupric ions and chloride ions and (2) a solid, substantially inert carrying agent, through a treating and regenerating zone, maintaining the average moisture content of the solid treating agent between 0.5 per cent and 9.0 per cent, and also regulating the amount of moisture present in the system so that the maximum water content of the treating agent at any time is never more than twice the minimum water content of the treating agent at any time.

2,284,273

PROCESS FOR SWEETENING SOUR HYDROCARBON OILS

Leslie U. Franklin, Port Arthur, Tex., assignor to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania

Application July 20, 1939, Serial No. 285,636
3 Claims. (Cl. 196—29)



1. The method of sweetening sour petroleum oils containing mercaptans which comprises suspending in a flowing stream of said oil, in the presence of an oxygen-containing gas, a substantially dry solid mixture of asbestos and a substance capable of reacting with said mercaptans to form sweet sulfur compounds and of regeneration by said oxygen-containing gas.

2,284,274

FASTENING ELEMENT AND METHOD OF UTILIZING SAME

Annette Fridolph, New York, N. Y., assignor to A. B. A. Specialties Company, Inc., New York, N. Y., a corporation of New York

Application May 10, 1939, Serial No. 272,749
16 Claims. (Cl. 24—102)



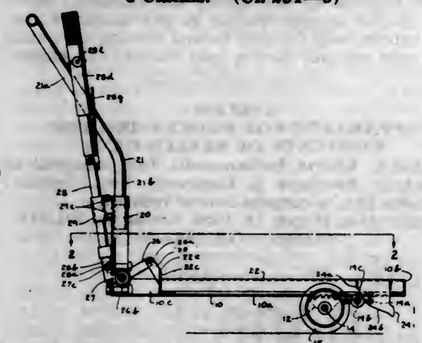
1. The method of tufting mattresses, upholstery and the like, which includes employing tufting elements severally comprising two tufting heads united by a connecting bond and an apertured ornamental head surrounding one of said tufting heads, passing a tufting needle with one of said two heads connected thereto through the article to be tufted and through the aperture in said ornamental head so as to cause the other of said tufting heads to engage one face of the article being tufted, and releasing the tufting head connected to said needle when it has passed through said ornamental head and beyond the face of the article being tufted, so that said ornamental head will be automatically positioned around one of said tufting heads and engage one face of the article being tufted upon the expansion thereof.

2,284,275

LIFT TRUCK

Chauncey W. Gannett, Wellington, Ohio, assignor to Wellington Machine Company, Wellington, Ohio, a corporation of Ohio

Application June 4, 1938, Serial No. 211,965
3 Claims. (Cl. 254—5)



2. In a lift truck, a rectangular frame member, a handle secured to said frame member, a pair of rails having their extremities interconnected and forming a loading platform, a pair of levers pivotally secured to the rear portion of said frame member, said platform having an upwardly extending rear flange which extends above the rails to form a stop for loading said platform and to form a forward point of attachment for each of said levers for securing the platform to the rear portion of said frame, hydraulic pump means disposed at the rear of said frame member, said levers adapted to operate together by means of a shaft connecting said levers and disposed rearwardly of said platform, said shaft being secured to an arm having pivotal connection with said hydraulic means, cam elements disposed on opposite sides of the inner faces of the rails adjacent their forward end, bearing surfaces carried by the forward end of said frame beneath said cam elements and engageable thereby, said platform being positioned upon said frame whereby said frame is adapted to form a base for said platform when said platform is in its lowered position and said cam elements are adapted to ride on said bearing surfaces whereby, when movement is imparted to said rear flange of said platform by said hydraulic pump means through said lever means and said pivot connection, said platform is vertically raised or lowered with respect to said frame and moved either rearwardly or forwardly in a longitudinal direction with respect to said frame, said longitudinal and vertical movement being concurrent.

2,284,276

QUICK DRYING INTAGLIO MARKING COMPOSITION

David M. Gans, Bronx, N. Y., assignor to Interchemical Corporation, New York, N. Y., a corporation of Ohio

No Drawing. Application June 22, 1939, Serial No. 280,521
6 Claims. (Cl. 106—20)

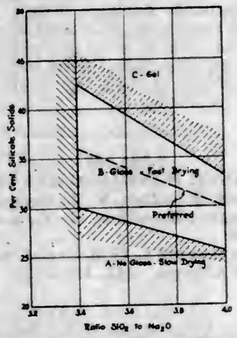
2. A quick drying intaglio marking composition, comprising a dispersion of pigment in an aqueous potassium silicate solution, in which the silicate has a silica/potassium oxide ratio of 3.9 to 1.0 and a solids content of about 27%, the dispersion being of such a character that prints made from it are mottled, and a small percentage of paratoluidine sufficient to reduce substantially the mottling obtained when depositing the composition from an intaglio cylinder without the paratoluidine.

2,284,277

QUICK DRYING INTAGLIO MARKING COMPOSITION

Albert E. Gessler and David M. Gans, New York, and Paul W. Greubel, Long Island City, N. Y., assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio

Application June 22, 1939, Serial No. 280,564
4 Claims. (Cl. 106—20)



1. A quick drying intaglio marking composition adapted to produce high gloss prints, comprising a dispersion of pigment in an alkali silicate solution, the alkali silicate containing from 3.4 to about 3.9 mols of silica per mol of alkali oxide, and the solids content of the silicate ranging from between 30 and 42% for the 3.4 to 1 silica/alkali ratio to between 24 and 34% for the 3.9 to 1 silica/alkali ratio.

2,284,278

CLUTCH PLATE

George L. Goodwin, Detroit, Mich.

Application February 7, 1938, Serial No. 189,035
5 Claims. (Cl. 192—68)



1. A spring center clutch plate characterized by a hub having a radial flange provided with circumferentially spaced spring slots and radially projecting stop lugs between certain of the slots, a centrally apertured friction disk provided with circumferentially spaced spring pockets, clutch facings on the outer portion of the friction disk, a centrally apertured side plate provided with circumferentially spaced spring pockets, said friction disk and side plate being rotatably mounted on the hub against opposite sides of the flange and rigidly secured together outwardly of the flange, and said side plate being cupped about the outer edge of the flange and provided in the cupped portion thereof with radially disposed stop openings into which the stop lugs on the flange project, for limiting the rotary movement of the friction disk and side plate in either direction, and coil springs seated in the slots in the flange and in the pockets in the friction disk and side plate for yieldingly resisting the rotary movement.

2,284,279

QUICK DRYING INTAGLIO MARKING COMPOSITION

Paul W. Greubel, Long Island City, N. Y., assignor to Interchemical Corporation, New York, N. Y., a corporation of Ohio

No Drawing. Application June 22, 1939, Serial No. 280,522
4 Claims. (Cl. 106—20)

1. A quick drying intaglio marking composition adapted to produce glossy prints of metallic appearance, comprising a dispersion of bronze powder in an alkali silicate solution, the alkali silicate containing from 3.4 to about 3.9 mols of silica per mol of alkali oxide, and the solids content of the silicate ranging from between 30 and 42% for the 3.4 to 1 silica/alkali ratio to between 24 and 34% for the 3.9 to 1 silica/alkali ratio.

2,284,280

SYNTHETIC RUBBERLIKE MATERIALS FROM 1-CYANOBUTADIENE-1,3 AND 2-CHLOROBUTADIENE-1,3

Bernard James Habgood, Elias Isaacs, and Leslie Budworth Morgan, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application September 20, 1939, Serial No. 295,838. In Great Britain September 22, 1938
9 Claims. (Cl. 260—86)

1. Process for the manufacture of new synthetic rubber-like materials which comprises polymerizing, in aqueous emulsion, 1-cyanobutadiene-1,3 together with 2-chlorobutadiene-1,3, the latter material being present in larger amounts than the former material.

2,284,281

SYNTHETIC RUBBERLIKE MATERIAL FROM 1 - CYANOBUTADIENE - 1,3 AND BUTADIENES-1,3

Bernard James Habgood, Elias Isaacs, and Leslie Budworth Morgan, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application September 20, 1939, Serial No. 295,839. In Great Britain September 22, 1938

11 Claims. (Cl. 260—86)

5. A synthetic rubber-like material comprising a polymerization product of a mixture of 1-cyanobutadiene-1,3 and a member of the group consisting of butadiene-1,3, 2-methylbutadiene-1,3 and 2,3-dimethylbutadiene-1,3, the latter material being present in larger amounts than the former material.

2,284,282

MENAPHTHYL CELLULOSE DERIVATIVES

Winfrid Hentrich, Dusseldorf - Reisholz, and Rudolf Köhler, Dusseldorf, Germany, assignors, by mesne assignments, to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio

No Drawing. Application August 20, 1938, Serial No. 225,938. In Germany August 31, 1937

3 Claims. (Cl. 260—231)

1. As a new compound, tetrahydro-menaphthyl cellulose.

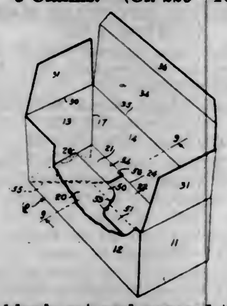
2,284,283

MAKING PAPER BOXES

Ross A. Himes, Piedmont, Calif.

Application April 18, 1939, Serial No. 268,453

3 Claims. (Cl. 229—16)



1. A box blank cut and creased to form a pair of side walls and a pair of end walls, the side and end walls being alternately foldably connected in end-to-end series, a side bottom section foldably connected to each side wall, each side bottom through a portion of its length having a width of substantially one-half of the width of a box formed by the blank and the other part of its length having a greater width to form a wide and a narrow end and a shoulder intermediate said ends, an end bottom section foldably connected to each end wall section, one of said end bottom sections having a foldable glue flap forming an extension of one side thereof, and one of said side bottom sections having a foldable glue flap forming an extension of one end thereof, said glue flaps being joined to their respective sections by crease lines extending on an angle of substantially 45° in opposite directions, said sections having the glue flaps thereon being non-alternately arranged in said end-to-end series of said blank and said other end bottom section having one side cut away on an angle and its other side disposed at an angle of 90° with relation to the fold line connecting it with the adjacent end wall section and the side bottom section having no glue flap having its narrowest end disposed on an angle of 90° with relation to the fold line connecting said side bottom section with the adjacent side wall.

2,284,284

TREATMENT OF RUBBER

Louis H. Howland, Cheshire, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application June 24, 1939, Serial No. 280,909

12 Claims. (Cl. 260—804)

1. A method of preserving rubber which comprises treating rubber with an aldehyde reaction product of an aliphatic ketone-arylamine condensation product, and in addition thereto an N,N'-diaryl phenylene diamine as an activator for said reaction product.

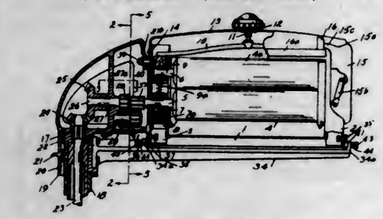
2,284,285

WRINGER AND THE LIKE

Walter L. Kauffman, II, Erie, Pa., assignor to Lovell Manufacturing Company, Erie, Pa., a corporation of Pennsylvania

Application October 7, 1938, Serial No. 233,833

9 Claims. (Cl. 68—269)



1. In a wringer or the like having a frame; rolls comprising shafts mounted in the frame; and a supporting head comprising a supporting arm; the combination with said head and frame of a swinging vertically movable connection between the head and the frame; a frame supporting connection between the arm and frame permitting a forward and back substantially equal movement at both ends of the bottom of the frame, comprising devices lifting the frame through such movement to a neutral position intermediate the ends of such movement; a safety device actuated with such lifting movement; and a device yieldingly holding the frame in neutral intermediate position.

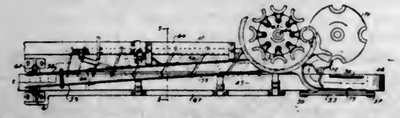
2,284,286

CONTAINER HANDLING APPARATUS

Frank Krueger, Brooklyn, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a corporation of Delaware

Application August 8, 1939, Serial No. 288,977

9 Claims. (Cl. 198—22)



1. In container handling mechanism, a table to support said containers, a spiral member

mounted for rotation about said table and adapted to feed containers along said table on rotation.

2,284,287

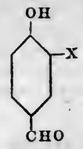
ETHERS OF PROTOCATECHUIC ALDEHYDE

Lucas P. Kyrides, Webster Groves, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application May 18, 1939, Serial No. 274,360

3 Claims. (Cl. 260—600)

1. A compound having the following general structural formula



in which X is selected from the group consisting of phenoxy, methylphenoxy, ethylphenoxy and cyclohexoxy radicals.

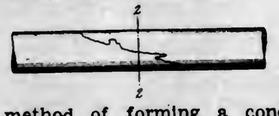
2,284,288

LAMP-MAKING METHOD

Clemens A. Laise, deceased, late of Tenafly, N. J., by Fidelity Union Trust Company, executor, Newark, N. J., assignor to Callite Tungsten Corporation, Union City, N. J., a corporation of Delaware

Original application June 7, 1939, Serial No. 277,944. Divided and this application December 3, 1940, Serial No. 368,308

4 Claims. (Cl. 176—13.2)



2. The method of forming a concentrated tungsten filament by heating the same in an atmosphere of wet hydrogen, then mounting the filament in a lamp circuit having a resistance element in series with the filament, applying a difference of potential so as to instantaneously bring said filament to its germinating temperature and thereby causing the coalescence of the constituent grains into long interlocking sections.

2,284,289

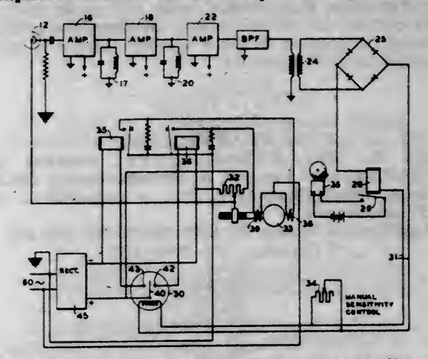
PHOTOELECTRIC SIGNALING SYSTEM

Maxwell H. A. Lindsay, Summit, N. J., assignor to The American District Telegraph Company, New York, N. Y., a corporation of New Jersey

Application September 30, 1938, Serial No. 232,551

9 Claims. (Cl. 177—311)

1. In a light barrier system, a light source for creating an intangible light barrier, said barrier being subject to variation by the atmosphere, a photo-electric cell responsive to said barrier, said cell being exposed to ambient light, a light chopper between said light source and said cell for chopping said light barrier at a certain frequency, an amplifier comprising a plurality of stages of amplification connected to the output of said photo-electric cell, tuned circuits offering high impedance to the chopping frequency of said barrier and low impedance to all other frequencies and connected between stages in said amplifier for limiting the response of said amplifier to the chopping frequency of said barrier, a rectifier for rectifying the entire output of said amplifier and an alarm relay connected to said



rectifier and responsive only to interception of said light barrier.

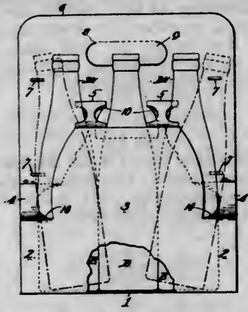
2,284,290

BOTTLE CARRIER

Richard C. Marshall, Jr., Kansas City, Mo., assignor to Edward N. Crook, Johnson County, Kans.

Application February 6, 1941, Serial No. 377,593

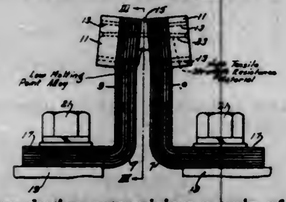
1 Claim. (Cl. 224—45)



A collapsible bottle carrier comprising a one piece blank cut and folded into a container having a bottom adapted to accommodate two distinct rows of bottles having reduced necks, two side walls extending upwardly from said bottom in spaced parallel relation, the ends of said blank being in flatwise abutting position vertically above the longitudinal center of the bottom to form a carrying handle, and partition and sustaining members inclined upwardly from each side wall to its respective proximate terminal section in spaced relation to form a pair of end bottle compartments and intermediate bottle compartments on each side of the handle, the partitions forming the intermediate compartments being in the plane of the reduced bottle necks and spaced to accommodate the maximum diameter of a bottle, the partitions forming the outer edges of the end compartments being in a lower plane than the intermediate partitions, the horizontal distance between vertical planes coinciding with the margins of the partitions forming the end compartments being less than the corresponding distance of the partitions forming the intermediate compartments whereby the end bottles may be inserted or removed from the compartments only by inclination angularly between vertical and horizontal when the carrier is upright, the end bottles of each row having their maximum diameters in contact to maintain the proximate

edges of the intermediate partitions in position for extended engagement with the necks of the end bottles to reinforce said inclined partitions against distortion when a loaded carrier is suspended from the handle.

2,284,291
FUSE CONSTRUCTION
John W. May, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 30, 1939, Serial No. 264,946
9 Claims. (Cl. 200—123)



1. A fuse device comprising a pair of current-carrying members, means biasing said current-carrying members apart to obtain a predetermined separation, a body of fusible metal normally joining said members and restraining the action of said biasing means, and means in addition to the adhesion of said fusible metal to said current-carrying members for holding said members against movement by said biasing means, said holding means including portions engaging the outer sides of said members.

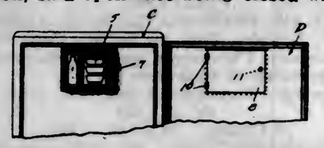
2,284,292
PORTABLE BURGLAR ALARM
Charles Metzler, Cincinnati, Ohio
Application September 13, 1938, Serial No. 229,720
1 Claim. (Cl. 200—54)



In a device of the character specified a switch comprising two conductive arms, a conductive pintle upon which said arms are pivotally mounted, an electrical terminal mounted on one of said arms, a second terminal mounted on the other arm, means for insulating said second terminal from the arm on which it is mounted, the terminal bearing end of one of said arms being adapted to be inserted and held between movable and immovable building members and the terminal bearing end of the other arm being adapted to rest against the surface of one of said building members, whereby angularly disposed planes of one of said members are slidably engaged by said arms, a spring mounted on said pintle with its respective ends attached to the respective arms so as normally to force the terminal bearing ends of said arms together whereby upon the movement of said movable building member, said ends are compressed so as to force said arms away from said members and to cause said terminals to contact.

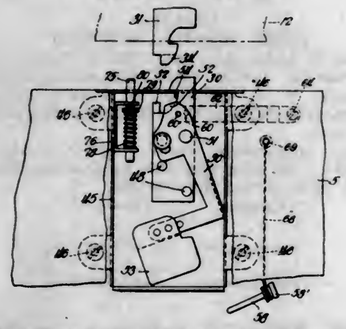
2,284,293
REFRIGERATOR
Kenneth A. Mills, Memphis, Tenn.
Application February 13, 1940, Serial No. 318,772
1 Claim. (Cl. 62—89)

A refrigerator comprising a cabinet providing a food chamber having a door opening leading thereto, means for closing said opening including a supplemental door, a cooling unit supported within the food chamber and having one face open, said open face being closed when the



supplemental door is closed, the edges of the cooling unit defining the open face thereof being formed to provide a continuous groove, and a gasket snugly fitted within such groove to provide a sealing medium for close contact with the supplemental door when closed.

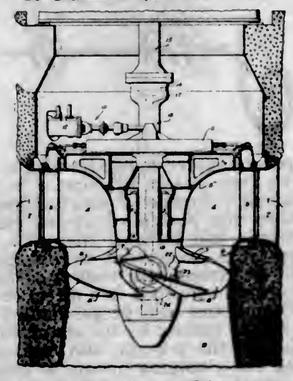
2,284,294
KEYLESS LOCK
Andrew Petrusak, Harvey, Ill.
Application October 9, 1939, Serial No. 298,527
2 Claims. (Cl. 206—1.5)



1. In combination, a box, a cover hinged to one wall of said box for swinging movement to open and closed positions and movable relative to said box axially along the hinge, a first locking member mounted on the opposite wall of said box and having a recess and a hook-shaped lug overhanging said recess, a second locking member mounted on the wall of said cover opposite the hinge and in alignment with said first locking member, said second locking member having a recess for receiving the hook-shaped lug of said first locking member and a hook-shaped lug underlying said recess and adapted to enter the recess in said first locking member for interlocking engagement wtih said first locking member to hold said cover in closed position, a second lug on said first locking member and cooperating with said second locking member to hold the hook-shaped lug thereof in interlocking engagement with the hook-shaped lug on said first locking member and said cover against movement relative to the box axially along the hinge, said second lug being adapted to be released from cooperation with said second locking member by pressing the adjacent wall of the box inwardly whereby said cover is freed for movement relative to the box axially along the hinge to release the interlocking engagement between the hook-shaped lugs on said first and second locking members so that the cover may be swung to open position about the axis of said hinge, and an arm pivoted internally of said box on the adjacent wall of the box and having a counterweight for holding a portion of the arm over the

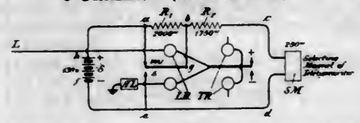
recess in said first locking member to hold the hook-shaped lug on said second locking member against disengagement from the second lug on said first locking member when the adjacent wall of the box is pressed inwardly, said counterweight being operable to move said arm clear of the recess in said first locking member by imparting tilting movement to the box.

2,284,295
ROTARY HYDRAULIC MACHINE
Lewis Ferry Moody, Princeton, N. J., assignor, by mesne assignments, to The Baldwin Locomotive Works, a corporation of Pennsylvania
Application October 19, 1939, Serial No. 300,160
10 Claims. (Cl. 253—148)



1. A rotary hydraulic machine comprising, in combination, means forming a flow passage, and a propeller type runner therein having a hub provided with a plurality of main blades pivotally adjustable about axes disposed at an angle to the axis of runner rotation and fixed subsidiary blades disposed respectively adjacent each main blade and in spaced relation thereto to provide a fluid passageway therebetween when the main blade is pivotally adjusted to a predetermined position.

2,284,296
TELEGRAPH CIRCUIT
Eugene Julius Muench and Monte Lee Greene, St. Louis, Mo., assignors to American Telephone and Telegraph Company, a corporation of New York
Application August 20, 1940, Serial No. 353,330
6 Claims. (Cl. 178—70)



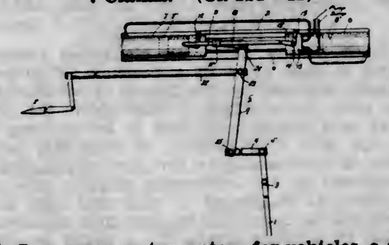
1. In a signaling circuit, a relay responsive to telegraph signals, a load arranged to be connected to a source of current over the contacts of said relay, a first impedance in series with the impedance of said load, a second impedance substantially equal to the sum of said first and said load impedances, means whereby said second impedance is short-circuited when the relay armature is in one position so that current flows through said first impedance and said load impedance but not through said second impedance, and means to short-circuit said first impedance and said load and to enable current from said source to flow through said second impedance but not through said first impedance and said load when the relay armature is in its alternative position.

2,284,297
SHIRT COLLAR
Paul W. Napierala, Reedpoint, Mont.
Application November 16, 1939, Serial No. 305,181
2 Claims. (Cl. 2—131)



1. A detachable collar for shirts having an upstanding neckband, said collar having a neckband substantially wider than that of the shirt, a downwardly turned flap carried by the upper edge of said collar neckband, the lower edge of said flap being adapted to overlie the outer surface of said shirt neckband, the lower edge portion of said collar neckband being adapted to overlie the inner surface of said shirt neckband, a space between the opposed surfaces of said flap and collar neckband above the upper edge of said shirt neckband, and means for forcing said lower edge portions of said collar neckband and flap into gripping engagement with said shirt neckband.

2,284,298
SERVO SYSTEM FOR AIRPLANES AND OTHER VEHICLES
John C. Newton, Bayside, N. Y.
Application December 21, 1939, Serial No. 310,353
7 Claims. (Cl. 121—41)

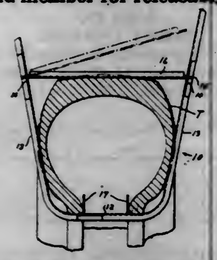


1. In a servo motor system for vehicles, a servo motor for turning the steering or other control element thereof in either direction, a controller therefor movable in either direction from its standstill position to cause said motor to operate in either direction, a lever pivoted on a part movable with said motor, manual means for rotating said lever about said pivot point, said lever being also connected adjacent said pivot point to said steering element, and a connection between said lever and said controller permitting free translation or bodily movement of said lever with said part connected to said motor without affecting said controller, but causing movement of said controller upon rotation of said lever.

2,284,299
TIRE-DISPLAY STAND
Lewis R. Owen, Cuyahoga Falls, Ohio
Application April 1, 1940, Serial No. 327,241
11 Claims. (Cl. 211—24)

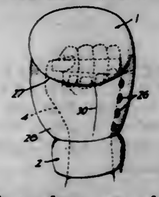
4. A tire-display stand comprising a substantially U-shaped member including a tire-bead engaging portion and spaced supporting elements

for engaging opposite sides of a tire to be supported, a cross-piece extending between said supporting elements for engaging the tread portion of said tire, and cooperating means on said cross-piece and said member for releasably securing the



cross-piece between said elements, said cooperating means including a locking device operable by the inherent resiliency of a tire engaged between the cross-piece and said head engaging portion of the member to lock said cross-piece in said secured position.

2,284,300
BOXING GLOVE
De Witt A. Portal, San Jose, Calif.
Application February 1, 1941, Serial No. 376,983
12 Claims. (Cl. 2—18)



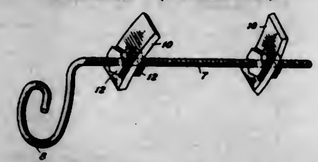
1. In a boxing glove, an elongated element secured to said glove in a position to be substantially enclosed by the fingers of a closed fist when such fist is fitted in said glove, the portion of said element adapted to be enclosed by the ring and little fingers of such fist being greater in thickness than the portion adapted to be enclosed by the remaining fingers, whereby the proximal phalanges of said ring and little fingers will be supported by said first mentioned portion in a plane nearer to a plane at right angles to the longitudinal axis of the forearm carrying said fist than the plane in which said phalanges are normally disposed when the fingers of such fist are clenched free from said element.

2,284,301
BREAKER STRIP CONSTRUCTION
Oliver O. Rieser, Oak Park, Ill., assignor to The Richardson Company, Lockland, Ohio, a corporation of Ohio
Application September 24, 1936, Serial No. 102,357
2 Claims. (Cl. 20—74)



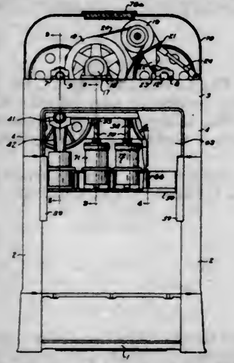
1. In a breaker strip, a body, an attachment means comprising a block for attachment to a face of said body, said block having an undercut recess therein to accept a headed fastening means, said undercut recess being in the shape of a groove having an access portion, a terminal, and an enlarged undercut surrounding said terminal, whereby said fastening means having a head longer than its width may be inserted into said slot and then rotated to prevent withdrawal thereof.

2,284,302
SUPPORT FOR WIRES
Charles William Roberts, Alexandria, Va., assignor to American Telephone and Telegraph Company, a corporation of New York
Application October 4, 1940, Serial No. 359,645
4 Claims. (Cl. 248—72)



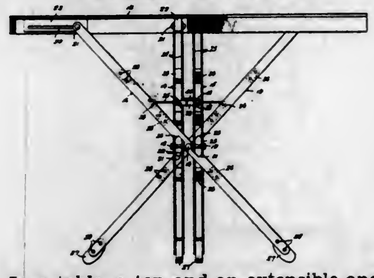
4. A support adapted to be attached to I-beams to hold wire runs closely adjacent a ceiling, said support having a threaded elongated shank member, a bridle ring positioned at one end of the shank member and integral therewith through which wire runs pass, said bridle ring being adapted to be turned with respect to the shank member to carry wire runs in a direction parallel to the I-beams and also perpendicular thereto, clamping means carried by the shank for engaging a flange of the I-beam, and locking means for holding the clamping means in position.

2,284,303
PRESS CONSTRUCTION
Fredrich J. Rode and Meredith R. Hatch, Toledo, Ohio, assignors to E. W. Bliss Company, Brooklyn, N. Y., a corporation of Delaware
Application January 24, 1940, Serial No. 315,427
7 Claims. (Cl. 113—38)



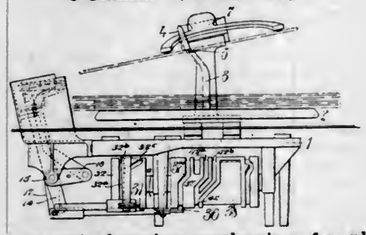
2. In a press of the character described having a base, spaced uprights mounted on said base, a crown of one-piece construction mounted on said uprights, in combination spaced hollow stress carrying members on said crown extending from side to side thereof, bearings in the lower part of said hollow members for receiving a pair of crankshafts having their axes extending from the front to the rear of said crown, a crankshaft operating gear carried by each of said crankshafts, one of said gears lying in a plane offset from that of the other gear, each of said gears being disposed within said crown, and bearing caps removable from the underside of said crown to support said crankshafts.

2,284,304
ADJUSTABLE AND COLLAPSIBLE SUPPORTING STRUCTURE
Charles T. Shoop, College Point, and Howard Gohs, Elmhurst, N. Y.
Application November 1, 1940, Serial No. 363,858
4 Claims. (Cl. 311—95)



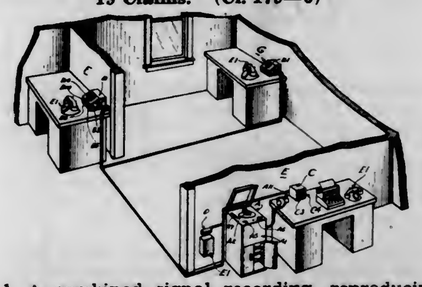
1. In a table, a top and an extensible and collapsible supporting leg structure including a pair of crossed legs pivotally connected together adjacent their longitudinal centers on a radial axis perpendicular to the direction of extension of the leg structure, a second pair of crossed legs pivotally connected together adjacent their longitudinal centers on a radial axis perpendicular to the direction of extension of the leg structure and intersecting the pivotal axes of the other pair of legs, interengageable means carried respectively by the underside of the top and the upper ends of the legs slidably and pivotally connecting the legs to the top for combined sliding and swinging movement of the upper ends of the legs of each pair towards and away from each other in parallel planes, the planes of movement of one pair of legs being at an angle to and intersecting the planes of movement of the other pairs of legs, racks pivotally connected to the legs respectively, and a pinion carried by said racks engaging the same for synchronizing the movement of the legs to and from extended and collapsed condition with reference to the top.

2,284,305
RECORD CHANGING MECHANISM FOR PHONOGRAPHS
Hector Vaughan Slade, Swindon, England, assignor to The Garrard Engineering & Manufacturing Company Limited, Swindon, England
Application March 2, 1940, Serial No. 321,830
In Great Britain March 25, 1939
9 Claims. (Cl. 274—10)



1. A record changing mechanism for phonographs comprising a magazine carrying a pile of disc records of different diameters disposed one above the other a member mounted for lateral movement between a position beneath the pile of records and a position outward of the pile, a pawl on said member normally urged upwardly to project thereabove and depressible by surface contact with the lowermost record of the pile when said member is beneath the pile, a plurality of driving means of different travel, and driven means operatively connected with said member and selectively engageable with one or the other of said driving means for reciprocating said member, whereby in the outward movement of said member the depressed pawl is urged upwardly as it passes the periphery of the lowermost record of the pile and in the inward movement of said member said projecting pawl laterally displaces the lowermost record from the pile, selector means normally urging the driven means into engagement with one of said driving means for providing a lateral movement of the member to its furthermost outward position, and stop means positioned to selectively engage the pawl when said pawl in the outward movement of the member has passed the periphery of a lowermost record of smaller diameter, thereby to limit the lateral movement of the member to a position intermediate the furthermost outward position, said stop means upon engagement with the pawl rendering the selector means inoperative and selectively engaging the driven means with the other of said driving means.

2,284,306
SOUND RECORDING AND REPRODUCING SYSTEM
Elliott W. Sparling, Los Angeles, Calif., assignor, by mesne assignments, to Theodore R. Gillenwaters and Samuel Steelman, as trustees for M. Elizabeth Gillenwaters
Refiled for abandoned application Serial No. 144,508, May 24, 1937. This application September 8, 1941, Serial No. 410,103
19 Claims. (Cl. 179—6)

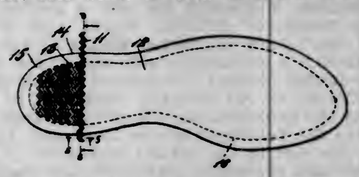


1. A combined signal recording, reproducing and communication system comprising a plurality of electrically connected stations arranged for inter-station communication, signal recording means, signal reproducing means, a phonographic means including a record common to said recording and reproducing means, and control means at the location of at least one of said stations for selectively controlling the operation of said stations, recording means and said reproducing means.

2,284,307
METHOD OF SLITTING SHOE SOLES
Paul A. Sperry, New Haven, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application January 24, 1941, Serial No. 375,779
In Canada January 31, 1940
2 Claims. (Cl. 12—146)

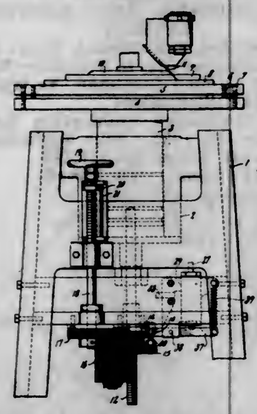
1. The method of slitting an elastic shoe out-

sole comprising placing an anvil beneath the sole of a similar shape but smaller than the sole, intermittently feeding the sole and anvil relatively in respect to a knife, reciprocating said knife of a length extending beyond said anvil into the sole while on said anvil and when not



in motion to extend the cut at right angles to the outer surface of the sole and but partially through the sole at each reciprocation and to repeatedly cut the same at spaced intervals to provide sections between the cuts and uncut portions at locations other than at the anvil.

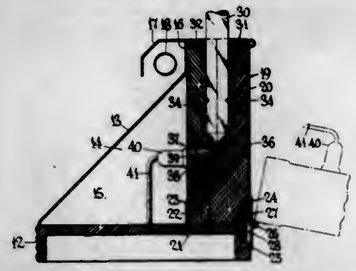
2,284,308
STOP AND SYNCHRONIZED DRIVE MECHANISM
Charles J. Stuart, Medford, Mass., assignor to Wellman Company, Medford, Mass., a corporation of Maine
Application November 9, 1940, Serial No. 364,963
5 Claims. (Cl. 12—25)



1. In a work treating machine, a drive means, means for clamping the work between two surfaces, an adjustable stop device for controlling the distance between said surfaces when they are in the clamping position, and means actuated by said stop device for controlling the operation of said drive means in synchronism with the clamping of the work.

2,284,309
ILLUMINATED SIGN
Louis R. Tschopp, Buffalo, N. Y.
Application April 8, 1941, Serial No. 387,401
8 Claims. (Cl. 40—130)

1. In an electrically illuminated sign, a holder comprising an elongate base portion and an upwardly extending wall rigidly disposed adjacent a longitudinal edge thereof, said wall having a longitudinal overhanging portion disposed above and spaced from said base portion to provide an abutment and a compartment beneath said overhanging portion, a panel hinged to the opposite longitudinal edge of said base portion and arranged to extend normally upwardly and spaced laterally from said abutment whereby to provide a longitudinally extending opening therebetween, said panel being movable pivotally away from said abutment to give access to said compartment, sign elements comprising supporting blocks and tubular, transparent symbol portions extending therefrom, said tubes containing a gaseous medium rendered luminous by the passage of high potential alternating current, en-



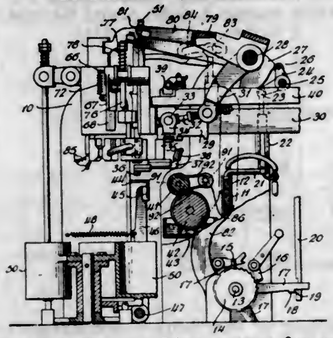
ergizing electrodes in said tubes and conductors leading therefrom through said blocks to a pair of contact elements on said block and accessible from the exterior thereof at the compartment side of said holder, flexible conductors in said compartment for interchangeable connection with said contacts to connect a plurality of sign elements electrically in series, and resilient means normally urging said panel toward said abutment whereby to grip and clamp the upper portions of the supporting blocks of a longitudinal row of sign elements.

2,284,310
CURTAIN TRACK SUPPORT
Earl J. Vallen, Akron, Ohio.
Application October 26, 1939, Serial No. 301,423
2 Claims. (Cl. 156—22)



1. A bracket for supporting sectional curtain track equipment of the type including a pair of oppositely disposed track sections having front and back portions and adapted to be supported in a stage opening or the like in overlapped back to back relation, said bracket comprising a body having a recess therein for longitudinally slidably receiving either one of said track sections, means on said body for fastening it to an overhead structure to support the track section, and an integral apertured member at one side of said body to extend at the back of the track section on which it is mounted, said member being proportioned to be interengageable with the apertured member on a like bracket longitudinally slidably received in oppositely disposed relation on the other of the track sections, whereby pairs of like brackets on the oppositely disposed track sections are adapted to be bolted together through the apertures of the interengaged members thereof to secure said track sections in said overlapping relation.

2,284,311
MECHANISM FOR APPLYING LABELS TO ARTICLES
George W. von Hofe, Bound Brook, N. J., assignor to New Jersey Machine Corporation, Hoboken, N. J., a corporation of New Jersey
Application May 7, 1941, Serial No. 392,271
10 Claims. (Cl. 216—55)



3. In a labeling machine, means for conveying a label over a predetermined path for application to an article, and means for providing said label with spaced folding lines during the conveyance thereof by said conveying means.

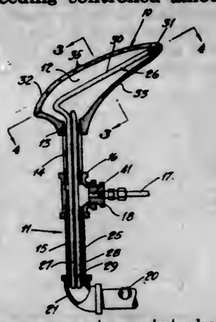
2,284,312
BOOK BINDING AND METHOD OF FORMING THE SAME
Albert T. Walraven, Dallas, Tex.
Application May 23, 1941, Serial No. 394,771
11 Claims. (Cl. 281—29)



1. A binding having the usual binder's boards including, a concave back, means fastening the back to the boards, and relatively-firm flexible members secured to the inner curved surface of said back at each end thereof for reinforcing the same.

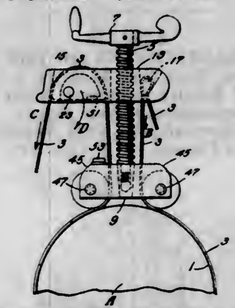
2,284,313
STEAM PUFF IRON
Albert J. Weber and Collin P. McCracken, Los Angeles, Calif.
Application April 11, 1941, Serial No. 388,068
2 Claims. (Cl. 68—6)

2. In a steam puff iron of the character described, the combination of: a hollow head of heat conductive material having an opening in the lower part thereof, said hollow head having at least one steam outlet port therein; pipe means communicating with said opening and extending down from said head; a steam tube having the ends thereof disposed in the lower part of said pipe means and the intermediate portion thereof extending through the upper portion of said pipe means into said head and being soldered to the wall of said head in heat exchanging relation to the walls of said head; means for closing the lower part of said pipe means around the ends of said steam tube so that the openings in the ends of said steam tube will be exposed; means for connecting the lower part of said pipe means to a steam supply pipe so that the openings in the ends of said steam tube will communicate with the interior of said steam supply pipe; and means for feeding controlled amounts of steam



into said pipe means at a point above the bottom thereof, so that such steam may pass through said head and said outlet port to the fabric being ironed.

2,284,314
CLAMP
Max E. Wetzler, Long Island City, N. Y.
Application October 24, 1940, Serial No. 362,605
9 Claims. (Cl. 24—19)

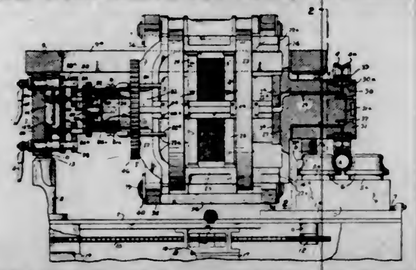


8. In a clamp of the character described, a clamping member provided with a rectangular opening and having spaced brackets, a presser member in co-operative clamping relation with a wall of said opening, parallel rods carrying said presser member and slidably mounted on said clamping member, springs effective on said presser member, a cross-bar connecting said rods and located between said brackets, a rocking lever pivoted between said brackets provided with a slot whereby one end of a loop forming clamping band is connected with said lever, a cam portion carried by said lever in operating engagement with said cross-bar whereby said rods and presser member are actuated when tension is developed by said band on said lever to clamp another portion of said band against a wall of said clamping member to clamp the loop thereto, and a lug on said lever arranged to be engaged by a co-operating pressure developing member to rock said lever and thereby relieve the clamping action of said presser member.

2,284,315
WELDING APPARATUS
Leonard A. Yoder, Lakewood, Ohio, assignor to The Yoder Company, Cleveland, Ohio, a corporation of Ohio
Application December 6, 1941, Serial No. 421,889
8 Claims. (Cl. 219—6)

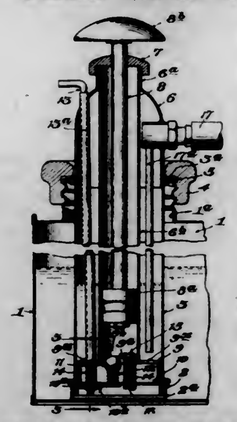
1. In welding apparatus, the combination with

a support and a unitary mechanism comprising a frame consisting of a main section and separate sections axially related to said main section and rigidly connected at their inner ends thereto, electrodes carried by said separate sections, respectively, and a transformer carried by said main frame section and having the terminals



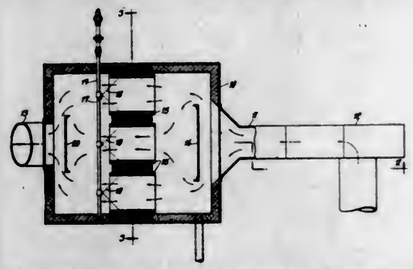
of its secondary winding electrically connected to said electrodes, of spaced pairs of bearings between said support and said main frame section disposed parallel to the common axis of said electrodes and upon opposite sides of the vertical axial plane, for rotatably supporting said unitary mechanism, and current supply means connected to the primary winding of said transformer.

2,284,316
LIQUID DISPENSER OR THE LIKE
John P. Glass, West New York, N. J., assignor to The Aeroil Burner Company, West New York, N. J., a corporation of New Jersey
Application November 24, 1939, Serial No. 306,009
6 Claims. (Cl. 158—79)



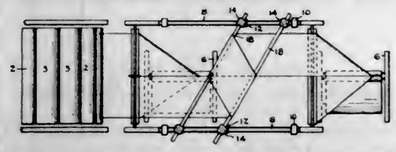
1. A dispenser adapted to supply liquid under pressure to liquid fuel burners or spraying devices or the like, comprising a container, a liquid pump in said container consisting of a pumping chamber and a pressure chamber surrounding the pumping chamber and having a syphon outlet, with check valve connections between the pumping chamber and pressure chamber; a normally closed relief valve between the said pressure chamber and container, and means for opening said relief valve to release the liquid from said chamber back into the container to stop the flow of liquid from the outlet, said relief valve comprising a spring-pressed ball in the pressure chamber disposed below the check valve in the lower end of the pump chamber, a piston rod in said pump chamber, and said means comprising a projection on said rod adapted in one position of the rod when depressed to depress the check valve sufficiently to unseat said ball.

2,284,317
METHOD FOR SCRUBBING GASES
Elmer H. Greenberg, Philadelphia, Pa.
Application August 3, 1940, Serial No. 350,857
1 Claim. (Cl. 183—121)



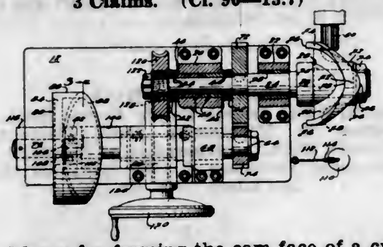
The method of scrubbing a gas stream to remove fume or particles of equally small dimensions, which comprises passing the stream through a conduit of rounded cross section, and projecting in such conduit against the flow of the gas, a spray of the scrubbing liquid formed in a spray nozzle by centrifugal action established by using a source of the liquid under pressure of about 350 pounds per square inch or higher, said spray comprising droplets mostly of a diameter of 0.1 millimeter or less, the said spray forming a substantially continuous barrier across the conduit in the form of a hollow cone with an apex angle of about 60° or wider, and the spray droplets substantially all moving with sufficient speed to forcefully impinge on the conduit walls after following substantially straight line paths from the nozzle.

2,284,318
UNIVERSAL WEB GUIDE
Walter E. Hamlin, Cleveland, Ohio, assignor to The Cleveland Shopping News Company, Cleveland, Ohio, a corporation of Ohio
Application November 15, 1939, Serial No. 304,589
1 Claim. (Cl. 270—20)



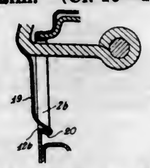
In apparatus of the character described having framing with printing cylinders and folding means, longitudinal bars between said printing cylinders and said folding means, a pair of web guide bars spaceable at optional distances from each other along said longitudinal bars, and means for setting said web guide bars at any desired distance apart from each other and at forward or reverse angles relative to either longitudinal bar, including two slides regulable with respect to each other on each of said longitudinal bars, set screws through said slides for locking the slides on the bars, heads swiveled on said slides, set screws through said slides to lock said heads in any position in said slides, said web guide bars extending slidably at each end through said heads, and set screws through said heads to lock the web guide bars.

2,284,319
CAM FORMING FIXTURE
Karl L. Herrmann, South Bend, Ind.
Application November 12, 1940, Serial No. 365,200
3 Claims. (Cl. 90—13.7)



3. Means for forming the cam face of a cylindrical cam having an axially facing cam surface provided with a plurality of axial high points in its circular extent comprising, in combination, a reciprocable slide, work supporting means comprising a shaft rotatably mounted on said slide with its axis parallel to the path of movement of said slide for reciprocatory movement with said slide toward and from a cutting means, a second shaft rotatably mounted on said slide in parallel relation to the first mentioned shaft for reciprocatory movement therewith, a cylindrical master cam fixed to said second shaft and having an axially disposed cam surface providing a follower track lying in a single plane disposed at an angle to a plane perpendicular to the axis of said master cam, a cam follower associated with said master cam surface and cooperating therewith to effect reciprocatory movement of said slide and shafts carried thereby upon rotation of said master cam, movement transmitting means interconnecting said shafts effective to turn said second mentioned shaft through as many complete revolutions per each revolution of said first mentioned shaft as there are axial high points on a single axial cam face of said work, and means for rotating said shafts.

2,284,320
HINGE GUARD
Earl E. Howe, Royal Oak, Mich.
Application October 23, 1939, Serial No. 300,697
1 Claim. (Cl. 16—135)



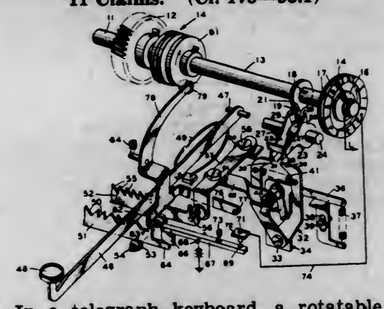
A hinge guard for use in an assembly wherein a hinge having a bent arm is mounted in a pillar recess in such manner that one portion of the arm is swung to one side of the mouth of said recess and a second portion is swung to a position substantially parallel to the face of the pillar, said guard comprising a sheet metal plate having one end portion adapted to be attached to said second portion of said arm and another free end portion adapted to extend outwardly in the nature of a substantially smooth continuation of said second arm portion, said free end portion of the plate being of a length such as to substantially completely cover the mouth of the opening when the second arm portion is substantially parallel to the face of the pillar, said free end portion terminating in a hook adapted to engage a portion of the pillar to check swinging movement of the arm.

2,284,321
APPARATUS FOR MAKING PAPER CORD
Benjamin Milton Kimball, Gilman, Vt., assignor to Millett Corporation, New York, N. Y., a corporation of New York
Application June 4, 1940, Serial No. 338,688
2 Claims. (Cl. 57—32)



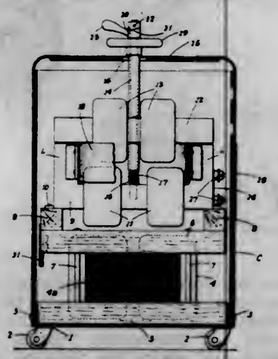
1. Means for forming a twisted cord from a continuous strip, comprising means for effecting a preliminary longitudinal crease in the strip, other means for thereafter folding the strip edges inward, and means for twisting the folded strip into a cord.

2,284,322
TELEGRAPH KEYBOARD TRANSMITTER
Vernon R. Kimball, Union City, N. J., and Robert F. Dirkes, Jamaica, N. Y., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application January 17, 1941, Serial No. 374,824
11 Claims. (Cl. 178—53.1)



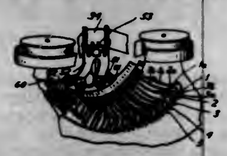
1. In a telegraph keyboard, a rotatable distributor mechanism for distributing code groups of impulses representative of actuated key levers to a sending circuit, a pair of stop arms rotatable with said distributor, individual stop gates associated with each of said stop arms, blocking members for each of said stop gates, the first of said blocking members normally blocking one of said stop gates whereby the latter through the associated stop arm maintains said distributor at rest in a normal position, solely mechanical means controlled by the actuation of said key levers for moving said first blocking member out of blocking relation with said associated stop gate and thereby release said distributor for rotation, and means operative on the unblocking movement of said first blocking member to move said second blocking member into blocking position relative to said associated stop gate whereby on continued actuation of a key lever said second blocking member, associated stop gate and stop arm stop rotation of said distributor following a predetermined amount of rotation thereof.

2,284,323
WELDER
Leroy F. Kingery, Stockton, Calif., assignor, by direct and mesne assignments, to Shober Sales, Inc., Stockton, Calif., a corporation of California
Application July 12, 1940, Serial No. 345,131
7 Claims. (Cl. 171—119)



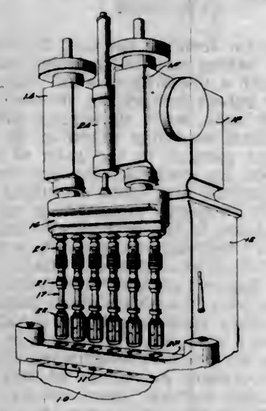
1. In an electric welder, a reactor including a stator and a rotor; said stator having a U-shaped core, a coil wound about said U-shaped core intermediate the legs thereof, an endless ring of dielectric material disposed between said legs and projecting laterally on opposite sides of said U-shaped core, said ring terminating at its outer edge beyond the corresponding ends of said legs, means mounting the rotor adjacent the ring for rotation in a plane parallel to said edge of the ring and for axial movement toward said ring, and manually actuated means to move said rotor into engagement with said ring and releasably secure the rotor in said position.

2,284,324
TYPING MECHANISM
Henry William Klabunde, Cleveland, Ohio, assignor to American Telephone and Telegraph Company, a corporation of New York
Application July 18, 1940, Serial No. 346,133
1 Claim. (Cl. 197—40)



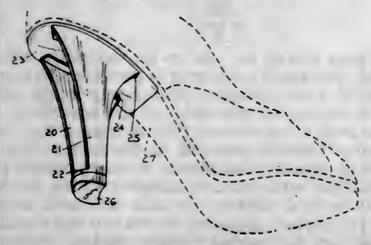
In a typing device, a platen for feeding paper, a type basket including an arcuate type bar segment, an arcuate-shaped support for a ribbon guide, said support being so located above said type bar segment as to form an arcuate space between said segment and said support, a longitudinal groove in said segment, a fulcrum rod in said groove, said groove being open upwardly to permit ready access to said fulcrum rod, transverse slots in said segment, a plurality of type bars so mounted in said slots that they can be swung about said fulcrum rod to strike the paper on said platen, and a removable guard of thin material and bent into an arcuate form so that its rear edge may be inserted into the space between said type bar segment and said ribbon guide support, said guard covering the groove and slots in said type bar segment to prevent particles of paper falling from the platen and interfering with the operation of said type bars, said guard also having tabs attached to the rear edge thereof near its ends, said tabs extending rearwardly over said type bar segment on opposite sides of said ribbon guide support and being attached to said segment.

2,284,325
HONING MACHINE
John E. Kline, Grosse Pointe Farms, Mich., assignor to Micromatic Hone Corporation, Detroit, Mich., a corporation of Michigan
Application November 27, 1939, Serial No. 306,208
10 Claims. (Cl. 51—34)



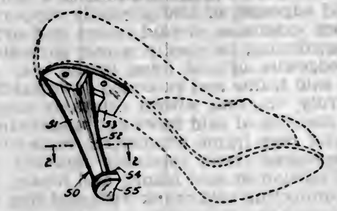
10. In a honing machine for finishing the wall of a cylinder, a reciprocable tool support, a spindle journalled in said support, means for reciprocating said support, means for rotating said spindle, a tool having an expansible honing element, means for securing said tool in said spindle, a pressure fluid system in said tool including a jet which is set relative to the desired diameter to be machined, and means responsive to changes in pressure in said system for indicating when the diameter has been reached.

2,284,326
HEEL
Eugene J. Korda, New York, N. Y.
Application December 28, 1939, Serial No. 311,423
8 Claims. (Cl. 36—34)



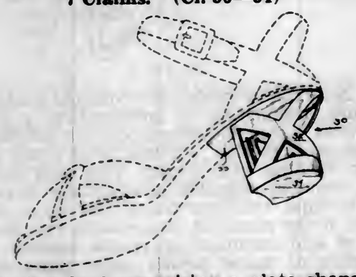
1. A shoe heel comprising a plate shaped for coupling an upper heel region with the body of a shoe, an open upstanding heel section incorporating spaced supports mechanically secured with said plate, and a formation extending at least partially across and secured with the bottom region of said upstanding heel section to form a rigid unitary heel assembly.

2,284,327
HEEL
Eugene J. Korda, New York, N. Y.
Original application December 28, 1939, Serial No. 311,423. Divided and this application October 7, 1941, Serial No. 413,919
5 Claims. (Cl. 36—34)



1. A shoe heel comprising a plate shaped for coupling the upper heel region with the body of a shoe, an open intermediate section comprising a plurality of upright members angularly disposed and interlockably mounted with respect to one another, flanges extending transversely to at least a portion of the upper and lower region of said intermediate section, said upper plate being mechanically secured with the upper flanges and a smaller lower plate mechanically secured with said lower flanges of said intermediate section.

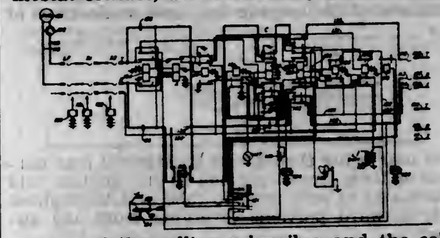
2,284,328
HEEL
Eugene J. Korda, New York, N. Y.
Original application December 28, 1939, Serial No. 311,423. Divided and this application October 7, 1941, Serial No. 413,920
7 Claims. (Cl. 36—34)



1. A shoe heel comprising a plate shaped for coupling the upper heel region with the body of a shoe, an open intermediate section, flanges extending transverse to the upper and lower region of said intermediate section, said upper plate being mechanically secured with the upper flanges and a smaller lower plate secured with said lower flanges to form a rigid unitary heel assembly.

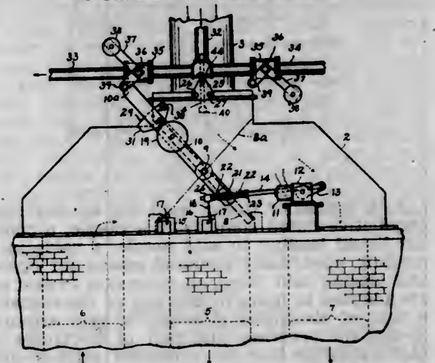
2,284,329
TELEPHONE SYSTEM
Arnold Lesti, Glendale, Calif., assignor to American Telephone and Telegraph Company, a corporation of New York
Application July 31, 1940, Serial No. 348,645
10 Claims. (Cl. 179—27)

1. In an automatic switching telephone system, subscribers' lines, a connector switch for completing connections between calling and called subscribers' lines under the control of the calling subscriber, a device for releasing said connector switch, a thermostat individual to said connector having a heating coil and a contact operable in a regulated time period, a releasing circuit for energizing said device to release said connector established by the closing of said thermostat contact, and means only under the joint



control of the calling subscriber and the called subscriber for heating said coil to close said thermostat contact.

2,284,330
VALVE MECHANISM FOR REVERSING FURNACES
Fred H. Loftus, Pittsburgh, Pa.
Application January 24, 1941, Serial No. 375,809
6 Claims. (Cl. 137—147)

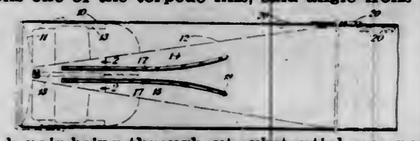


6. Furnace-reversing apparatus including a valve chamber, an air duct opening into said chamber, a valve in said duct normally standing in open position, a valve-operating member connected to said air valve, a flue leading from said chamber, two passages leading from said chamber to two furnace ports severally, and a reversing valve mounted in said chamber to swing between a position in which said air duct communicates with one of said passages and the other passage communicates with said flue, and a position in which the last passage communicates with said air duct and the first passage with said flue, and means including a motor for shifting said reversing valve from one of said positions to the other, said means including a device adapted in the course of the reversing-valve-shifting operation to engage said valve-operating member and effect the momentary closing of said air valve.

2,284,331
TORPEDO TUBE
Tom Marwood, Hythe, England, assignor to Hubert Scott-Paine, Hythe, Southampton, England
Application January 14, 1941, Serial No. 374,319
In Great Britain September 11, 1939
1 Claim. (Cl. 114—238)

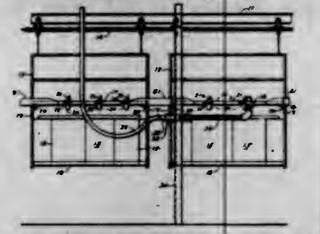
In combination with a torpedo tube adapted to receive a torpedo which is provided at its rear end with two diametrically opposite radial fins,

two pairs of angle-irons secured to the inside of said torpedo tube near the rear end thereof and each pair adapted to receive between its angle-irons one of the torpedo fins, said angle-irons of



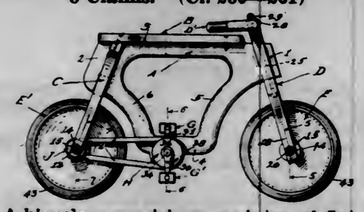
each pair being throughout substantial rear portions of their length parallel to one another and to the axis of said torpedo tube and throughout their forward portions diverging from one another.

2,284,332
MOLD FILLING APPARATUS
Franklin A. McCann, Pasadena, Calif., assignor to Pacific Clay Products Company, Los Angeles, Calif., a corporation of California
Application August 16, 1941, Serial No. 407,190
9 Claims. (Cl. 25—29)



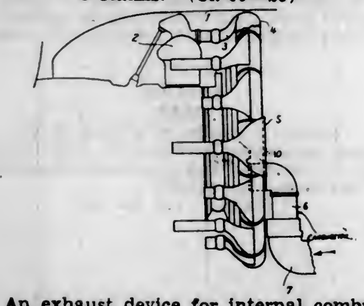
1. A container filling head for an electrically conductive liquid comprising a nozzle, a conduit for liquid leading to said nozzle, a valve in the conduit, electrically actuated means for opening and closing said valve, an extension to said nozzle adapted to move in and out of the container, a pair of electrodes attached to said extension, means for lowering said pair of electrodes and said extension into the container prior to opening said valve, an electric circuit including said electrodes and raising means for said electrodes, said circuit being completed by the electrically conductive liquid when its level rises sufficiently to at least partly cover the electrodes, and means for raising said pair of electrodes from the container following the completion of said electrical circuit, said electrically-actuated means opening said valve only when the electrodes are in the container and also not in contact with the conductive liquid.

2,284,333
BICYCLE
Charles F. McGirl, Van Nuys, and Hugh Harman, Los Angeles, Calif.
Application September 7, 1940, Serial No. 355,766
8 Claims. (Cl. 280—261)



1. A bicycle comprising: an integral flat frame member disposed edgewise and cut away interiorly to provide connected marginal portions, a combined seat and reinforcing member disposed horizontally on and attached to the upper edge of said frame member, said frame member having a top portion, front and rear extensions, and a bottom portion connected with said front and rear extensions by inclined portions, a front fork disposed edgewise of and pivotally supported on the front extension of said frame and extended downwardly and forwardly, a rear fork also disposed edgewise of and fixed to the rear extension of said frame and extended downwardly and rearwardly, traction wheels rotatably supported in the crotches of said forks and underlying said front and rear frame extensions, respectively, a pedal operated crank rotatably mounted on the bottom portion of said frame, and means operatively connecting said crank with said rear wheel.

2,284,334
EXHAUST DEVICE FOR INTERNAL COMBUSTION ENGINES
Pierre Ernest Mercier, Paris, France
Application January 30, 1940, Serial No. 316,321
In France February 1, 1939
8 Claims. (Cl. 60—29)



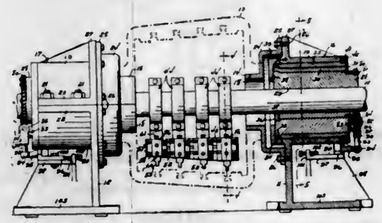
1. An exhaust device for internal combustion engines, comprising in combination a toroidal manifold which is transversely of substantially round cross section, a plurality of flared mouth pipes opening individually from said cylinders in a common direction substantially parallel to the toroidal axis and connecting upon the exterior of the manifold tangentially into the interior of said manifold, an engine cowling, and a plurality of flared mouth outlet pipes opening tangentially from the interior of said manifold and tangentially to the engine cowling in a common direction substantially parallel to said axis into the open air.

2,284,335
POLYSTYRENE PRODUCT
Erich O. Meyer, Teaneck, N. J., assignor to Consolidated Edison Company of New York, Inc., New York, N. Y., a corporation of New York
Application July 24, 1940, Serial No. 347,173
7 Claims. (Cl. 260—36)



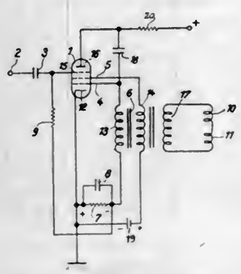
1. A composition of matter for forming a polymerized plastic suitable for use as an electrical insulating material, comprising an intimate mixture of styrene, not more than about 0.5% of benzoyl peroxide polymerization accelerator and not more than about 2% of dibutylphthalate which functions first as a plasticizer and then to harden the composition.

2,284,336
BORING MACHINE
Noah E. Morrison, Prospect Park, Pa.
Application April 26, 1941, Serial No. 390,617
11 Claims. (Cl. 77—1)



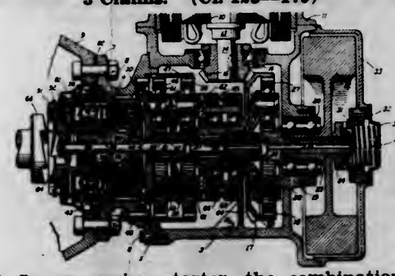
1. A boring machine for turbine casings comprising two spaced stands having coaxial bearings; means on said stands for supporting the turbine casings therebetween; a tool carrying boring bar extending through said bearings; eccentric means operatively connected with said boring bar to be rotated thereby and rotatably supported in said bearings for supporting the boring bar and imparting a lateral shift thereto through relative shifting of the eccentric means; relatively fixed cam means; and means acting on said relatively fixed cam means and said eccentric means for relatively shifting the latter during rotation thereof.

2,284,337
SAW-TOOTH CURRENT GENERATOR
Theodor Mulert and Frithjof Rudert, Berlin-Zehlendorf, Germany, assignors to Fernseh G. m. b. H., Berlin-Zehlendorf, Germany
Application March 11, 1940, Serial No. 323,348
In Germany March 11, 1939
4 Claims. (Cl. 250—36)



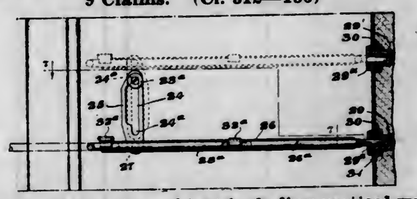
1. A saw-tooth current generator comprising a vacuum tube having a cathode and a plurality of control electrodes, a transformer having a plurality of windings, a resistance-capacitance parallel network connected in series with a first of said windings between said cathode and the first of said control electrodes, a source of potential connected in series with a second of said windings between said cathode and the second of said control electrodes, and a connection from the junction of said network with said first winding to the third of said control electrodes.

2,284,338
ENGINE STARTING MECHANISM
Romeo M. Nardone, Westwood, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application October 6, 1941, Serial No. 413,872
3 Claims. (Cl. 123—179)



1. In an engine starter, the combination of an engine engaging member, a rotatable gear carrying member, means for transmitting the rotation of said gear carrying member to said engine engaging member, means for rendering said rotation transmitting means ineffective during force application to said gear carrying member in one direction, and means for reversing the direction of force application upon said gear carrying member, said last named means including a prime mover and a brake having one element rotatable with said prime mover, and a second non-rotatable element, a switch controlling energization of said prime mover, means responsive to closing of said switch to cause disengagement of said two braking elements, and means responsive to opening of said switch to cause engagement of said two braking elements.

2,284,339
REFRIGERATOR
Carl H. Nauert, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application December 8, 1939, Serial No. 308,269
9 Claims. (Cl. 312—156)

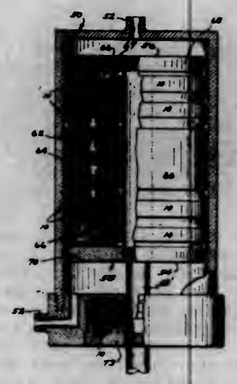


7. A refrigerator cabinet including vertical wall members, supports mounted on said wall members, shelf hangers mounted on the said supports in pivotal relation thereto, a shelf pivotally connected to said hangers, said hangers having a slidable connection with said supports, the slidable and pivotal connection of said hangers with respect to said supports providing adjustment of the shelves to different distances from said supports.

2,284,340
PACKING
Herman Ray Nuckles, La Crescenta, Calif.
Application April 13, 1940, Serial No. 329,518
11 Claims. (Cl. 309—4)

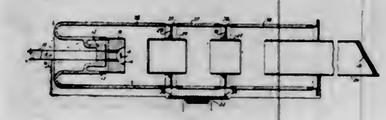
3. A packing adapted to form a seal for a piston operating in a cylinder, said packing being formed of a plural number of individual rings

of like configuration including a feather-edged portion, and having on the outer side thereof a number of horizontally disposed bands certain of which intersect to form a fulcrum point, and another of said bands being concaved to undercut said feather-edged portion and to create a zone of marked sectional reduction, said rings



being adapted to be in nested relation with a second and like ring whereby when in a cylinder of less diameter than the diameter of the ring, said reduced zone will be inwardly sprung upon said fulcrum point to increase natural tension of the material comprising the ring to more forcibly press said feather-edged portion against the wall of said cylinder.

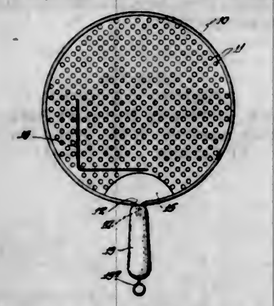
2,284,341
DISCHARGE DEVICE
Herbert C. Pollock, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application December 6, 1940, Serial No. 368,927
4 Claims. (Cl. 250—27.5)



1. A highly evacuated discharge device including a pair of conductive bodies which are maintained at a high difference of potential during the use of the device and a vitreous part extending between the said bodies for supporting them in insulatingly spaced relationship, the surfaces of the said part which extend between the bodies being roughened in the manner characteristic of sand-blasting.

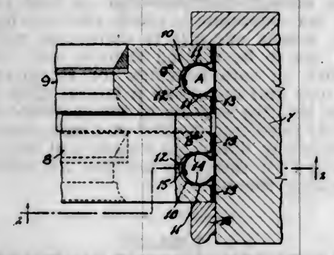
2,284,342
FOOD STRAINER
Elliott P. Quinby, Western Springs, Ill.
Application February 23, 1940, Serial No. 320,474
4 Claims. (Cl. 210—161)

1. A food strainer comprising a disk of sheet material containing perforations, a handle extended from the rim of the disk, and a member attached to one face of the disk and serve as a rest for a vessel employing the disk as a strainer,



said member being an angle plate applied with one of its side edges to the disk.

2,284,343
WEATHER STRIP AND SASH BALANCE
Anthony J. Ricci, Yeadon, Pa.
Application July 23, 1941, Serial No. 403,641
4 Claims. (Cl. 20—52)



1. For a window, the combination with the frame jambs, of a sliding sash having a groove in each side member which opens toward the adjacent jamb, and a combined sash balance, guide member and weather strip at each side of the window, which strips are substantially coextensive with the height of the jambs, said strips being composed of springy material having a flat base portion for attachment to the jamb and a pair of semi-cylindrical-like portions projecting laterally therefrom to form a longitudinally extending tubular part which projects into the adjacent sash groove, said semi-cylindrical-like portions slidingly overlapping each other whereby to exclude the weather and to compensate for expansion and contraction of the sash, and the diameter of the tubular portion being normally greater than the distance between the sides of the adjacent sash groove.

2,284,344
CONTROL MEANS FOR MOTOR DRIVEN SKATES
Oren F. Russell, Palmer, Wash.
Application March 19, 1941, Serial No. 384,219
3 Claims. (Cl. 180—77)

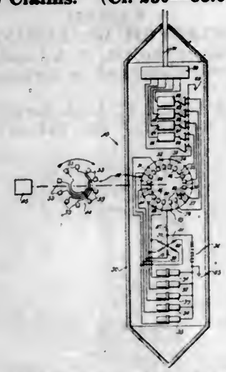
1. A control attachment for motor driven skates comprising a belt adapted for attaching to a person, a tubular housing attached to the belt and having a longitudinal slot therein, a member slidably mounted in the housing, cables attached to the member and extending from one end of the housing for attaching to a part of the motor, and a manually actuated device attached

to the member and projecting from the slot in the housing, said slot and manually operated de-



vice retaining the member against removal from the housing.

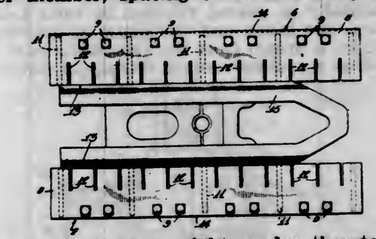
2,284,345
METHOD AND APPARATUS FOR GEOPHYSICAL PROSPECTING
Carleton H. Schlesman, Camden, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application October 21, 1941, Serial No. 415,976
15 Claims. (Cl. 250—83.6)



1. A geophysical prospecting apparatus comprising a plurality of closely adjacent coaxially arranged radiation detectors, means for accumulating detections from said detectors in sequence, and at a predetermined rate, means for indicating the accumulated detections as an index of the character of geophysical formations in the vicinity of the apparatus, and correlating the delay interposed in the signals of the detectors with the rate at which the detectors are moved past a point of reference.

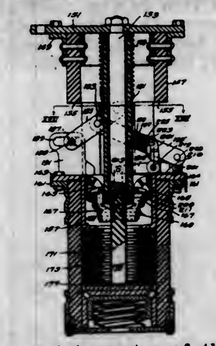
2,284,346
APPARATUS FOR STRAIGHTENING METAL CASTINGS OR PREVENTING DISTORTION OF SAME DURING COOLING
William C. Speck, Bexley, and Glen S. Pierce, Columbus, Ohio, assignors to The Buckeye Steel Castings Company
Application November 5, 1938, Serial No. 239,192
3 Claims. (Cl. 153—48)

2. In an apparatus of the character described, a plurality of oppositely disposed pressing members, one of said members comprising longitudinally extending rectangular parallel plates arranged edgewise in reference to the other member, each plate having a multiplicity of spaced narrow slots in its edge portion which faces the other member, spacing elements arranged be-



tween said plates at right angles thereto and having edge portions co-planar with said edge portions of the plates, and means rigidly and detachably connecting all of the plates together.

2,284,347
CIRCUIT INTERRUPTER
Albert P. Strom, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 8, 1938, Serial No. 228,931
27 Claims. (Cl. 200—150)

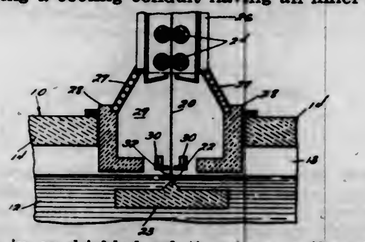


1. In a circuit interrupter of the liquid immersed type, a quantity of arc extinguishing liquid, an arc extinguishing structure immersed in said liquid, said arc extinguishing structure comprising means of insulating material defining an arc chamber open at one end and closed at the other, means for establishing an arc outside of but adjacent the open end of said arc chamber, means for moving the arc into said arc chamber, and resilient means disposed at the closed end of said arc chamber movable in response to pressure created by the arc within said arc chamber to a predetermined position, said resilient means being returnable to its normal position upon subsidence of the pressure within said arc chamber to force arc extinguishing liquid entrapped in the closed end of said arc chamber from the arc chamber through the open end thereof.

2,284,348
COOLER FOR GLASS FURNACES
Forest S. Tharp, Clarksburg, W. Va., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application June 16, 1939, Serial No. 279,397
3 Claims. (Cl. 49—17)

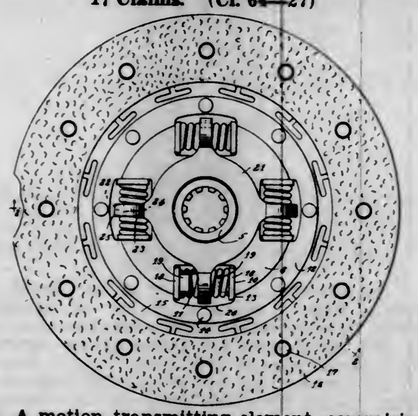
1. The combination with a glass drawing apparatus having means for defining a vertical plane of drawing to draw a glass sheet vertically

from a molten glass bath, and having L-blocks disposed on opposite sides of said plane in spaced relation thereto, a fluid circulating unit disposed horizontally in spaced relation to each L-block between the latter and the plane of drawing as the sheet is drawn from the glass bath, each unit including a cooling conduit having an inner side



facing in unshielded relation toward the plane of drawing to cool the glass sheet adjacent its meniscus, said conduit having an outer side facing the L-block and a lower side facing the molten bath surface and refractory shielding material in flat strip form supported along said outer and lower sides of said conduit.

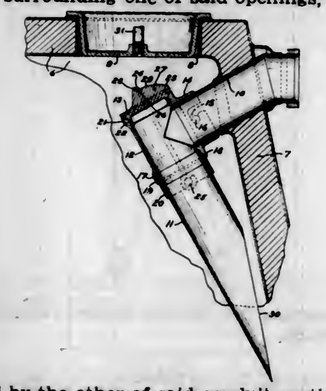
2,284,349
CLUTCH PLATE ASSEMBLY
W. Vincent Thelander, Rockford, Ill.
Application January 2, 1941, Serial No. 372,863
17 Claims. (Cl. 64—27)



1. A motion transmitting element, comprising two overlapping members having registering openings therein in circumferentially spaced relation about the axis of rotation, coiled compression springs seated in said openings to resist relative rotation between said members, and a ring in concentric relation with said overlapping members and connected at circumferentially spaced points with the middle portions of said springs to retain the same against radially outward movement under centrifugal force.

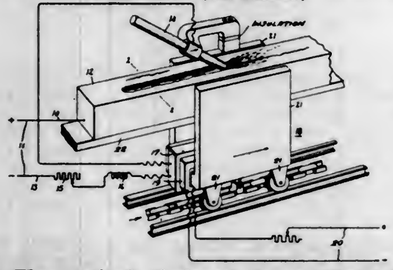
2,284,350
TANK FILLING NOZZLE
Frederick G. Thwaits, Wauwatosa, Wis., assignor to The Heil Co., Milwaukee, Wis., a corporation of Wisconsin
Application August 19, 1939, Serial No. 290,995
10 Claims. (Cl. 220—86)

1. A filler nozzle comprising, a T-fitting having three inter-communicating openings each surrounded by a flange, conduit portions for admitting liquid to and from said fitting through two of said openings, a bayonet joint detachably connecting one of said conduit portions with the flange surrounding one of said openings, a collar



carried by the other of said conduit portions and wedgingly coacting with another of said flanges, and a cap detachably secured to the other of said flanges and being connected to said collar through means additional to the T-fitting.

2,284,351
ELECTRIC DESEAMING
Richard F. Wyer, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application August 17, 1938, Serial No. 225,389
9 Claims. (Cl. 148—9)

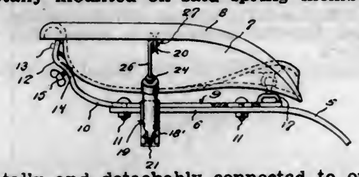


2. The method of deseaming a billet which comprises connecting the terminals of a source of arcing current to said billet and to an electrode, maintaining an arc between said electrode and said billet, traversing said arc along a defective portion of said billet in a direction away from the terminal connection with said billet, and inclining said electrode away from the direction of arc travel at an angle of from 30° to 45° with said billet to expel from the arc crater in said billet the current conducting metal rendered molten by said arc.

2,284,352
SEAT
Donald G. Zank, West Salem, Wis.
Application May 26, 1941, Serial No. 395,287
3 Claims. (Cl. 155—121)

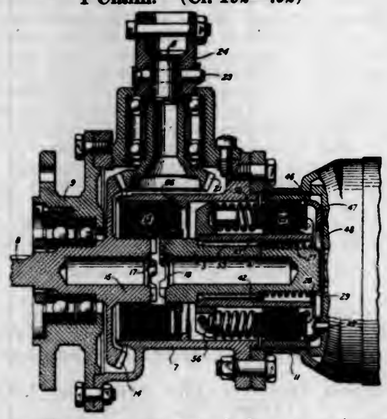
1. In a seat mounting, a seat post, a cradle member on said post, a seat, pivotal connections between the seat and cradle member whereby the seat may tilt sideways in either direction, an inverted substantially U-shaped spring member carried by said cradle member and arranged

transversely thereof, and hydraulic stabilizers pivotally mounted on said spring member and



pivotally and detachably connected to opposite sides of the seat for levelling the latter.

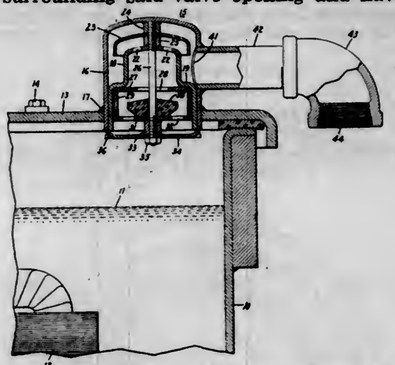
2,284,353
DRIVING MECHANISM
Joseph W. Allen, East Orange, N. J., assignor to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey
Original application November 16, 1935, Serial No. 50,229. Divided and this application December 16, 1939, Serial No. 309,672
1 Claim. (Cl. 192—.02)



A landing gear drive including a motor, normally disengaged clutch and landing gear actuating shaft, manually operable means for causing energization of said motor at will, means shiftable to engage said clutch, a common source of energy for said motor and clutch engaging means, means for enabling said motor to overrun said clutch as soon as the landing gear actuating shaft encounters excessive resistance to further rotation, and manually operable means rotatable with said landing gear actuating shaft, to operate the latter independently of said first-named energy source.

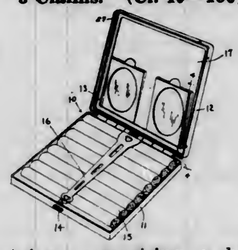
2,284,354
BREATHER
Harry M. Acly, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application June 18, 1940, Serial No. 341,150
5 Claims. (Cl. 137—69)

1. A breather for a vessel containing a liquid and having an opening in an upper wall thereof above the normal liquid level therein, said breather comprising an outer casing secured to said wall about said opening, means arranged in said outer casing defining a valve opening, a stem secured to said casing and extending axially through said valve opening, a float valve slidably arranged on said stem for closing said valve opening upon a predetermined abnormal rise of liquid level in said vessel, an inner casing surrounding said valve opening and having



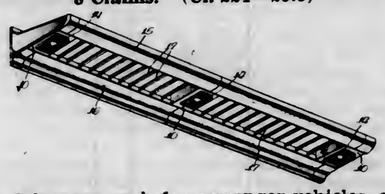
vent passages in the upper portion thereof, and a vent opening in the lower portion of said outer casing.

2,284,355
CONTAINER AND PICTURE HOLDER
Eric Anderson, Providence, R. I., assignor to Superb Case Mfg. Co., Providence, R. I., a corporation of Rhode Island
Application November 8, 1940, Serial No. 364,831
3 Claims. (Cl. 40—156)



1. A container comprising a base, a cover hingedly connected to said base, and a mirror and retainer member locked to the inside of said cover, said member comprising a sheet metal plate having a mirror surface on at least one side and an integral pocket portion extending outwardly from said mirror surface.

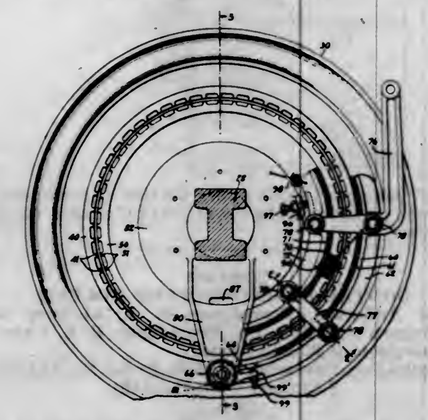
2,284,356
LUGGAGE RACK WITH BUILT-IN LIGHTING FIXTURES
Albert L. Arenberg, Highland Park, Ill., assignor to Patent License Corporation, Chicago, Ill., a corporation of Illinois
Application September 14, 1937, Serial No. 163,732
8 Claims. (Cl. 224—29.5)



2. A luggage rack for passenger vehicles, comprising a plurality of brackets for attachment at regular intervals to the side walls of a vehicle above the seats, forwardly and upwardly turned front and rearwardly and downwardly turned

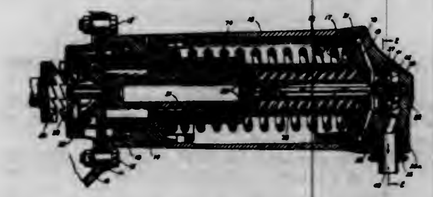
rear paneling strips connecting the fixtures, and open-work rectangular rack sections removably countersunk into and supported by the bottom of the front and the top of the rear paneling strips.

2,284,357
DUAL WHEELED VEHICLE
Charles S. Ash, Milford, Mich.
Application January 19, 1940, Serial No. 314,629
17 Claims. (Cl. 188—18)



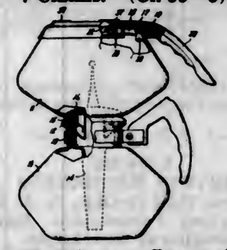
1. A dual wheeled structure including in combination a pair of independently rotatable wheels mounted side by side in coaxial relation, a brake drum fast to each wheel, the brake drums being coaxial and one substantially enclosing the other, and brake shoes movable relatively to each other and the drums to engage the inner surface of one brake drum and the outer surface of the other.

2,284,358
ENGINE STARTING MECHANISM
Howard E. Baer, Garfield, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application February 7, 1941, Serial No. 377,900
6 Claims. (Cl. 121—37)



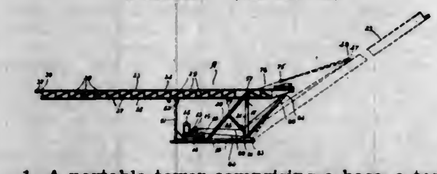
1. In an engine starter, in combination, a cylinder and piston, said cylinder constituting a fluid receiving chamber in which said piston moves when subjected to fluid pressure, inlet and exhaust chambers at one end of said cylinder, said inlet chamber having constant communication with said fluid receiving chamber, rotary valve means normally preventing communication between said fluid receiving chamber and said exhaust chamber, and valve opening means responsive to fluid pressure of abnormal magnitude to rotate said valve means to a position establishing communication between said fluid receiving chamber and said exhaust chamber.

2,284,359
COFFEE MAKER
Brian C. Bellows, Jr., Orange, N. J., assignor to General Electric Company, a corporation of New York
Application September 26, 1940, Serial No. 358,491
7 Claims. (Cl. 53—3)



1. In a vacuum-type coffee maker having a water heating bowl and a fragile infusion bowl connected in liquid transfer relation to the water heating bowl, a cover structure for closing the opening in said infusion bowl comprising a cover for said opening having a section embracing the outer surface of the bowl wall around said opening, a plurality of rigid fingers carried by said cover movable inwardly and outwardly with reference to the inner surface of said wall, means for forcing said fingers inwardly and outwardly, and each of said fingers carrying a resilient member constructed and arranged to yieldingly engage said fragile wall with sufficient force to lock said cover to said wall when said fingers are forced outwardly so that the cover can be utilized as a handle for said bowl.

2,284,360
EXTENDIBLE BUILDER'S TOWER
Ola L. Berby, Duluth, Minn., assignor to Clyde Iron Works, Duluth, Minn., a corporation of Maine
Application August 9, 1940, Serial No. 352,002
6 Claims. (Cl. 187—2)

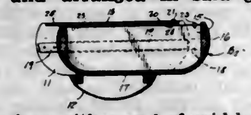


1. A portable tower comprising a base, a tower element, means on said base engaging said tower element at a point spaced from the lower end thereof, a pivotal connection between said engaging means and said tower element whereby said tower may be folded with respect to said base, and a second pivotal connection between said base and the lower extremity of said tower, whereby said tower element may be folded down upon the ground.

2,284,361
BOOKCASE END TABLE
Frank Y. Biletz, Philadelphia, Pa.
Application August 16, 1940, Serial No. 352,851
2 Claims. (Cl. 312—34)

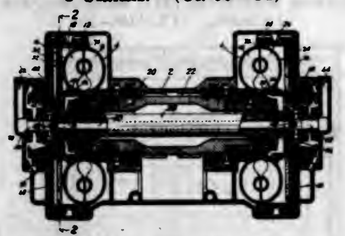
1. An end table comprising a housing structure having a table top at such height as to be nearly level with the top of an arm of a conventional armchair, side walls and a bottom wall arranged to provide a bookshelf guideway extending entirely through said housing structure,

a bookshelf proportioned and constructed to retain books in closely juxtaposed relation to others with their titles facing one wall of said housing structure and arranged in said guideway for



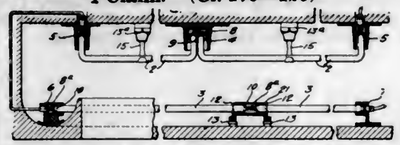
projection from either end of said housing structure for inspection of said titles from the side of said housing structure adjacent said last mentioned side wall.

2,284,362
REVERSIBLE DRIVE
Rudolph Birmann, Newton, Pa., assignor to De Laval Steam Turbine Company, Trenton, N. J., a corporation of New Jersey
Application March 30, 1938, Serial No. 198,873
3 Claims. (Cl. 60—54)



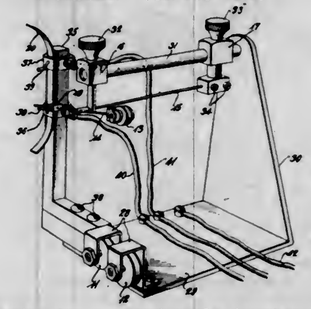
1. A reversible driving mechanism comprising a driven member, a pair of hydraulic couplings having driving impeller elements and driven turbine elements, means for the selective introduction of driving liquid to the two couplings, the driven elements of both couplings being connected to said driven member whereby the latter may be selectively driven by either, the driving elements rotating continuously to effect opposite rotations of the driven member when the couplings are selectively filled with liquid, and means for transferring liquid directly from one of said couplings which is being rendered inoperative to the coupling which is being rendered operative when a change in direction of drive is being effected, said direct transfer being in addition to the introduction of liquid by said selective liquid introducing means, and being effected through a path additional to the paths of flow involved in said selective introduction of driving liquid, said last named means including means for scooping liquid discharged from one coupling for transfer to the other.

2,284,363
LIGHTING DEVICE
Louis G. Boomsma, New York, N. Y.
Application June 17, 1939, Serial No. 279,602
1 Claim. (Cl. 176—126)



A mounting for lighting tubes having L ends each of which ends has a lead wire which mounting comprises sockets into which the L ends fit, said sockets being insulating cups with contact means adapted to contact the ends of the tubes and spring means adapted to maintain pressure contact between the contact means and the ends of the tubes, and latch means engaging the tube and holding said tube against the pressure of the spring means, said latch means comprising an insulating member adapted to serve as an intermediate support from an anchorage, and a hook member on said insulating member adapted to hook over the lighting tube, so that the tube can be released therefrom only after movement which further compresses the spring means.

2,284,364
TENSIOMETER
Francis B. Breazeale, Enka, N. C., assignor to American Enka Corporation, Enka, N. C., a corporation of Delaware
Application March 7, 1940, Serial No. 322,824
2 Claims. (Cl. 265—1.6)



1. A device for measuring the tension of moving threads, filaments or the like that comprises a substantially straight, rod-like, torsion element, means for anchoring the torsion element at one point in its length, means for directly supporting said element, free for rotation, at another point in its length, a lever arm attached to and extending laterally from said torsion element at a point removed from the anchoring means, means supported by and directly mounted on said lever arm for guiding a moving thread, filament or the like, means in the same plane as the first mentioned guiding means for guiding a moving thread, filament or the like over said first mentioned guiding means in such a manner that the tension of the thread, filament or the like will tend to rotate the supporting lever arm about the axis of the torsion element, and means to determine the extent of rotation caused thereby.

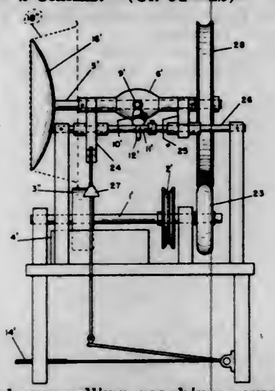
2,284,365
FITTING
Theodore W. Briegel, Galva, Ill.
Application September 16, 1940, Serial No. 356,953
3 Claims. (Cl. 285—161)



1. A fitting comprising tubular members, one of said members having a flange thereon, the other of said members having an enlarged portion receiving said flange and terminating in a shoulder, and a lock washer having a portion between said flange and said shoulder and a frusto-conical portion having an aperture with

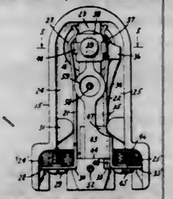
an unbroken edge and of slightly less diameter than a member inserted therein for gripping an inserted member, the enlarged portion being bent around said flange and lock washer to secure said members together, said frusto-conical portion permitting said inserted member to slide relative thereto in one direction and expanding into biting engagement to resist movement in the opposite direction.

2,284,366
BEADING MACHINE
Eugene E. Bryant, Cleveland, Ohio, assignor to Ferro Enamel Corporation, Cleveland, Ohio, a corporation of Ohio
Application December 1, 1938, Serial No. 243,443
2 Claims. (Cl. 91—12)



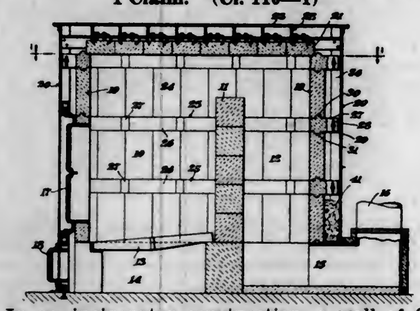
2. A bead enamelling machine comprising a rotatable shaft with actuating means for rotating said shaft, an enamel wheel mounted thereon, an enamel slip tank into which said enamel wheel dips, a second rotatable shaft elevatably mounted above said rotatable shaft and provided with ware-holding means above said enamel wheel, means to elevate and lower said second shaft driving means comprising a wheel of the same diameter as the said enamel wheel and mounted on the same said rotatable shaft and a wheel of the same size and contour as the circumference of the ware to be beaded mounted on said second shaft, and wheels being in driving and driven contact when the second rotatable shaft is lowered so that the ware contacts said enamel wheel.

2,284,367
COMBINED LAMP SOCKET AND SWITCH
Frank D. Bryant, Stratford, and William R. Young, Fairfield, Conn., assignors to General Electric Company, a corporation of New York
Application April 9, 1941, Serial No. 387,634
1 Claim. (Cl. 173—350)



In a supporting device for a lamp having spaced contact prongs, a housing of insulating material having two compartments separated by a wall, a contact member in each compartment for engaging the lamp prongs, one of said contact members being provided with terminal means for connection to a lamp operating circuit, the other contact member being normally insulated from the circuit, a switch blade carried by the said other contact member, a second switch blade mounted on said dividing wall and being provided with terminal means for connection to the lamp operating circuit, a member of insulating material rotatably mounted on said wall, a conducting element carried by said member, said conducting element being continuously in contact with said second-mentioned switch blade and adapted to engage said first-mentioned switch blade for placing the said other contact member in the lamp operating circuit.

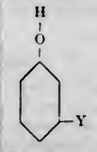
2,284,368
FURNACE CONSTRUCTION
Samuel Burgess, South Ozone Park, N. Y., and Norman Schoeppel, Mexico, Mo., assignors to Nichols Engineering & Research Corporation, New York, N. Y., a corporation of Delaware
Application March 19, 1941, Serial No. 384,056
1 Claim. (Cl. 110—1)



In an incinerator construction, a wall of fire brick, an outer sheet metal shell spaced therefrom, means securing said shell to the wall comprising brick portions protruding from the wall surface at spaced points and formed with vertically extending slots, angle irons secured on the inside surface of the shell, and bolts attached to said angle irons and extending through said slots, said slots being formed with sufficient clearance with respect to said bolts whereby said bolts are free for movement lengthwise and vertically in said slots to provide for relative expansion and contraction of the wall and shell.

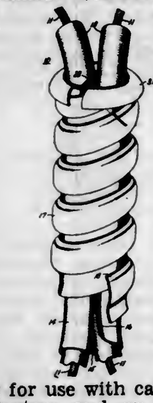
2,284,369
HYDROGENATED CARDANOL AND METHODS OF MAKING THE SAME
Solomon Caplan, New York, N. Y., assignor to The Harvel Corporation, a corporation of New Jersey
No Drawing. Original application July 6, 1934, Serial No. 733,986. Divided and this application November 1, 1938, Serial No. 238,165
4 Claims. (Cl. 260—624)

1. The hydrogenated compound derived from the anacardic acid constituent of cashew nut shell liquid having the following formula:



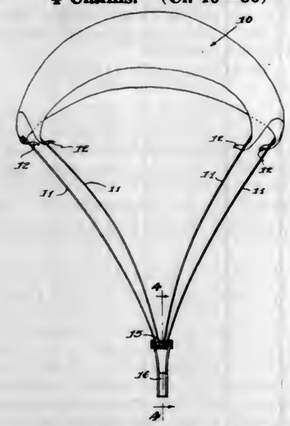
wherein Y stands for the completely hydrogenated normally unsaturated aliphatic side chain of the alkyl phenol which is obtained by destructively distilling cashew nut shell liquid at reduced pressure, said hydrogenated compound in the purified state being a white crystalline material having a melting point of about 50.5° C. and a boiling point of about 240° C. at 10 millimeters of mercury.

2,284,370
CABLE BUSHING
George Carlson, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Original application August 23, 1938, Serial No. 226,265. Divided and this application February 1, 1941, Serial No. 377,043
2 Claims. (Cl. 174—83)



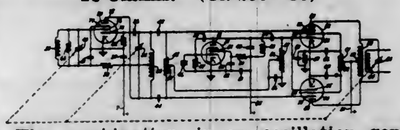
2. A bushing for use with cable having a plurality of conductors and an over-all metallic armor comprising an insulating member of substantially cylindrical form provided with a diametrical dividing wall separating said member into two compartments, each compartment being adapted to receive one of the insulated conductors as said member is slipped over the conductors to a position beneath a severed end of the armor, said member having a bead engaging and overlying the severed end of the armor.

2,284,371
PARACHUTE PROJECTILE
Cecil R. Crary, Detroit, Mich.
Application January 20, 1940, Serial No. 314,750
4 Claims. (Cl. 46—86)



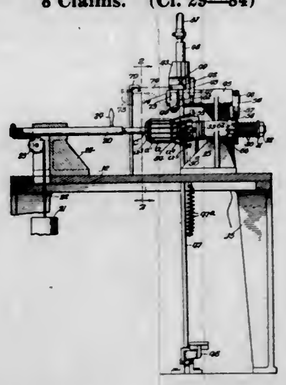
1. A parachute projectile comprising a plurality of semi-rigid stays formed of flexible fibrous strips, a parachute sheet fastened at one end of each of said stays, and means at the other end of said stays arranged to maintain said stays in a predetermined relative order, said means comprising a channel member pivoted at the ends of said stays whereby said stays may lie in said channel and formed of a material which will serve as a weight for the descending parachute, and a transverse extension on said member to serve as a force receiving member.

2,284,372
OSCILLATION GENERATOR
Howard M. Crosby, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application December 16, 1939, Serial No. 309,639
16 Claims. (Cl. 250—36)



1. The combination, in an oscillation generator, of an electron discharge device having an anode, a cathode, and a plurality of control electrodes, a source of operating potential connected between said anode and said cathode, an oscillatory frequency determining circuit coupled to said anode and to one of said control electrodes having oscillations excited therein by action of said discharge device, the frequency of said oscillations being dependent upon the potential of said source, and means to control the extent to which said frequency is dependent upon said potential, said means including a circuit connected between another of said control electrodes and said cathode resonant at a frequency different from harmonics of, and higher than, the frequency of said oscillations and at which the coefficient of variation of frequency of said oscillations with respect to variation in said potential is of a desired predetermined value.

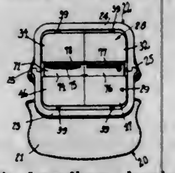
2,284,373
MACHINE FOR CONNECTING LEADS OF ARMATURE COILS TO COMMUTATORS
Jasper F. Cullin, Detroit, Mich., assignor of two-thirds to Lou Mervis, Lock Haven, Pa.
Application November 22, 1939, Serial No. 305,677
8 Claims. (Cl. 29—84)



1. In a machine of the character described,

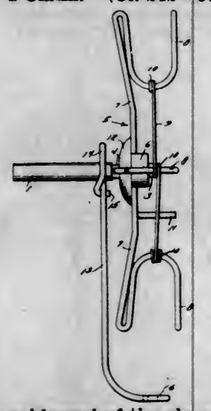
the combination of means for rotatably supporting an assembled commutator having slotted segments and an armature comprising coils and leads extending from the coils, said supporting means comprising a sleeve fitting around the commutator and having slots therein adapted to register with the slots in the segments, means for successively securing leads in the slots in the segments, and mechanism for rotating the supporting means step-by-step to successively bring the slots in the sleeve into operative position for the securing means.

2,284,374
COMBINATION BOX AND POCKET FOR HANDBAGS
Frank Deak, New York, N. Y.
Application March 6, 1940, Serial No. 322,527
5 Claims. (Cl. 150—35)



1. In a lady's handbag, having an opening, and pivoted U frames encircling said opening, their pivoted motion opening or closing the handbag, a box pivotedly secured on one of the frames along the inside of the upper wall of the bag, said frames being U shaped in cross section, said pivot being formed of two hinged plates, the upper plate being secured inside of the inner branch of the U of the frame, the lower plate being secured on top of the box, said top being adapted to be placed transversely across said U frame, the box resting alongside said wall but being adapted to be swung inwardly on said pivot when the handbag is open to make the box better accessible.

2,284,375
BLASTING CABLE REEL
Dewey Raymond De Board, MacDunn, W. Va., assignor of one-half to James W. O'Dell, MacDunn, W. Va.
Application May 6, 1941, Serial No. 392,150
1 Claim. (Cl. 242—99)



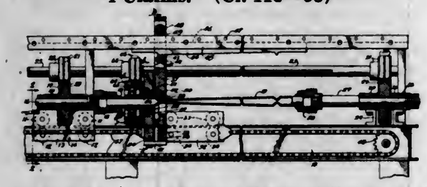
A blasting cable reel of the character described comprising a handle, a plug fixed to one end portion of said handle, a spindle threadedly mounted in said plug and projecting longitudinally from the handle, a reel rotatably mounted on the spindle, said reel including a hub journaled on said spindle, a plurality of arms radiating from the hub, cable receiving means on the outer ends of said arms, and a disk loosely mounted on the spindle, said disk being frictionally engageable with one end of the hub for manually controlling the rotation of the reel and being of concave form and larger in diameter than said end of the hub to arch over said end and function as a guard preventing contact of the hand with said end of the hub.

2,284,376
LAMP HOLDER
Frank C. De Reamer, Bridgeport, and Adolf G. Mueller, Stratford, Conn., assignors to General Electric Company, a corporation of New York
Application May 17, 1939, Serial No. 274,202
5 Claims. (Cl. 173—328)



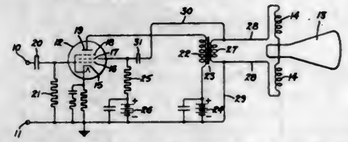
1. A socket for electric lamps having contact prongs comprising a base of insulating material having a recess therein extending from one face thereof, spaced parallel slots extending from the opposite face thereof to an edge of said last mentioned face and merging with said recess, spaced contact members in said recess, one end of each contact member having a lamp prong engaging portion resting in a corresponding slot, the walls of said recess being provided with grooves therein, terminal plates in said recess, the other end of each of said contact members being bent at an angle and welded to a corresponding terminal plate, said bent ends of said contacts and said terminal plates being seated in said grooves, and conductor fastening means mounted on each of said plates.

2,284,377
TUBE FORMING MACHINE
Clarence L. Dewey and Sydney L. Dewey, Cleveland, Ohio, assignors to Metal Tube Shaping Corporation, Elkhart, Ind., a corporation of Indiana
Continuation of application Serial No. 91,468, July 20, 1936. This application November 24, 1939, Serial No. 305,817
4 Claims. (Cl. 113—53)



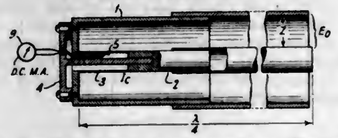
1. In a tube forming machine of the class described, the combination of spaced chuck members mounted for relative longitudinal movement with respect to one another and adapted to engage the ends of a tube, means for imparting rotation to at least one of the chuck members, a carriage intermediate the chuck members and a forming tool carried thereby and mounted thereon in a manner to permit radial movement of the forming tool with respect to the tube, means for imparting longitudinal movements to the carriage to cause the forming tool to move lengthwise of the tube, automatic means for variably regulating the radial position of the tool with respect to the tube to impart variable reductions in the diameter of the tube, and a rotatably driven friction clamp engaging the tube at a point adjacent the forming tool and movable longitudinally with the forming tool.

2,284,378
DEFLECTING CIRCUIT
Robert B. Dome, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application May 3, 1940, Serial No. 333,188
4 Claims. (Cl. 250—27)



1. In a ray deflecting circuit for a cathode ray discharge device, the combination of a current responsive ray deflecting means, a thermionic discharge device having input and output circuits, a transformer having a primary winding in said output circuit and a secondary winding in circuit with said current responsive means, means to impress sawtooth voltage waves on said input circuit having a relatively gradual rate of change in one direction during intervals of trace and a relatively high rate of change in the opposite direction during intervals of retrace, whereby current waves are caused to flow in said ray deflecting means which produce a relatively low positive potential across said secondary winding during intervals of trace and a relatively high negative potential thereacross during intervals of retrace, and feedback means for supplying said potentials to said discharge device in proper phase to increase the plate resistance of said device substantially during intervals of retrace.

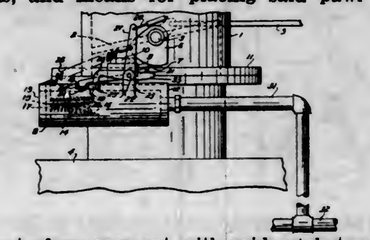
2,284,379
ULTRA HIGH FREQUENCY VOLTMETER
Orville E. Dow, Rocky Point, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application December 29, 1939, Serial No. 311,507
14 Claims. (Cl. 171—95)



1. In combination, a concentric line section having an inner conductor and an outer shell, said outer shell being closed at one end and said section being adapted to have radio frequency voltage applied to the open end thereof, the length of said line section being equal to a quarter of the wavelength of said applied voltage, a heater element connected between said inner conductor and the closed end of said outer shell and means for determining the relative temperature of said heater element.

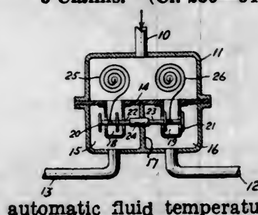
2,284,380
THROTTLE CONTROL DEVICE
Clifford Stone Drabble, Windsor, Ontario, Canada
Application November 4, 1940, Serial No. 364,219
7 Claims. (Cl. 192—3)

1. In an automotive vehicle having a carburetor, a throttle shaft therein and a throttle valve on the shaft, ratchet means fixed to one end of the shaft, a pawl adjacent said ratchet means, and means for placing said pawl into



and out of engagement with said ratchet means comprising a cylinder having a reciprocatable piston therein, a cam member carried by the piston and a cooperating cam member carried by said pawl.

2,284,381
TEMPERATURE REGULATING MEANS FOR INTERNAL COMBUSTION ENGINES
Eleuthere Paul du Pont, Montchanin, Del.
Application November 1, 1939, Serial No. 302,328
3 Claims. (Cl. 236—34)

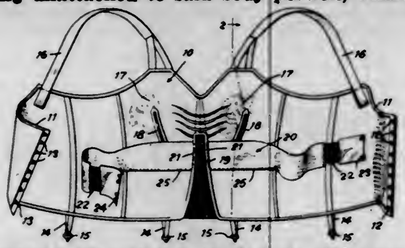


2. An automatic fluid temperature regulating device, a casing, partitioning means dividing the casing into a receiving chamber and a pair of discharge chambers, laterally ported passages affording communication between the receiving chamber and the discharge chambers respectively, independent valves controlling said ported passages respectively, stems extending from said valves toward each other, independent thermostatic means located in the receiving chamber and connected to said valves respectively for actuating said valves, means positioned between and adapted to bear on the ends of said valve stems and adapted to operate when one of said valves is fully closed to cause the other to be fully open and conduits communicating with said receiving chamber and with said discharge chambers respectively.

2,284,382
GARMENT
Catherine Elberfeld, Brooklyn, N. Y.
Application September 26, 1941, Serial No. 412,397
2 Claims. (Cl. 2—42)

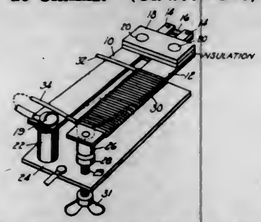
1. A garment of the character described comprising in combination, an outer relatively wide body portion provided with breast-receiving pockets and means for securing the body portion around the body and over the breasts of the wearer, and a relatively narrower anchor band provided with free outer ends, said band being attached to the inside of the body portion along the lower edge of its length to and across the lower edge of the breast pockets and across its width to the central part of the body portion between the breast pockets, the upper edge of said band from between the breast pockets to the free ends of the band and the lower edge of

the band from the breast pockets to its free ends being unattached to said body portion, whereby



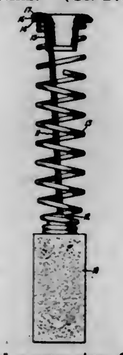
said band will maintain the breasts of the wearer in the breast pockets of the body portion.

2,284,383
THERMOSTATIC CONTROL DEVICE
William B. Elmer, Winchester, Mass.
Application January 12, 1939, Serial No. 250,563
19 Claims. (Cl. 200—113)



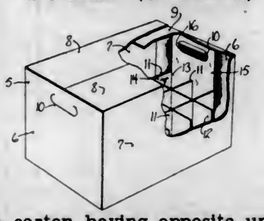
18. In a thermostatic control device a thermostatic responsive structure comprising a pair of coextending bimetallic thermostatic elements, said thermostatic elements normally lying in side by side parallel relation and capable of lying in a variety of different surfaces upon differential heating thereof, and a connection between a portion of each of said thermostatic elements always maintaining said connected portions in a common surface.

2,284,384
ELECTRIC CONTACT BRUSH
Bernard C. Evans, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application January 9, 1940, Serial No. 313,087
7 Claims. (Cl. 171—326)



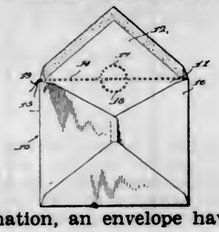
1. An electrical connector for an electric contact brush including a tapered deformable terminal element having a flange thereon, a second deformable tapered terminal element having a flange formed thereon and having a tightly fitted telescopic engagement with said first-mentioned tapered element, and a flexible electrical conductor secured to the brush and having a portion thereof secured by being pressed between said two tapered elements with an end of said portions secured between said flanges.

2,284,385
CARTON
Edison C. Freshwaters, Milwaukee, Wis., assignor to Jos. Schlitz Brewing Company, Milwaukee, Wis., a corporation of Wisconsin
Application October 28, 1940, Serial No. 363,125
2 Claims. (Cl. 229—52)



1. In a carton having opposite upright walls one pair of which is provided with hand holes, and having a top wall sealing the carton formed by gluing flaps on opposite upright carton walls down onto each other: a loose readily replaceable unitary partition structure for the carton of less height than the carton comprising, a plurality of partition members substantially parallel to said pair of opposite upright walls and a plurality of other partition members substantially perpendicular to said pair of opposite upright walls and interconnected with the parallel partition members to form a plurality of upright pockets of less height than the carton for the carton contents, one of said perpendicular partition members comprising a sheet of paperboard of substantially the same height as the height of the interior of the carton but longer than the distance between said pair of upright walls of the carton, said sheet of paperboard being so cut and scored as to divide the same into a midsection substantially of the same height as the remaining partition members and two end sections, the major portions of which are formed by the material of the sheet above the midsection, said end sections being folded to positions substantially at right angles to the midsection to lie flat against said pair of opposite upright walls of the carton substantially along their entire height, and said end sections having hand holes therein registering with the hand holes of said pair of opposite upright walls.

2,284,386
ENVELOPE
Henry G. Frick, Palermo, Italy
Application February 20, 1939, Serial No. 257,518
1 Claim. (Cl. 229—86)

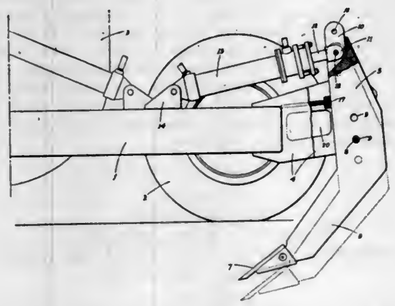


In combination, an envelope having an integrally-formed main portion, side and end flaps, a thread extending along an edge of said envelope, said thread being woven through a line of perforations provided in said edge in a manner to form opposed semi-circular shaped loop portions above said edge in a side flap and below said edge in said main portion and substantially centrally thereof, whereby pulling said thread along the edge forms a central cut-out portion on both sides of said edge to open the envelope and facilitate withdrawing the contents thereof.

2,284,387
TREATMENT OF MECHANICAL FABRICS
Carlton C. Gordon, Elsmere, N. Y., assignor to Albany Felt Company, Albany, N. Y., a corporation of New York
No Drawing. Application December 1, 1939, Serial No. 307,114
6 Claims. (Cl. 8—128)

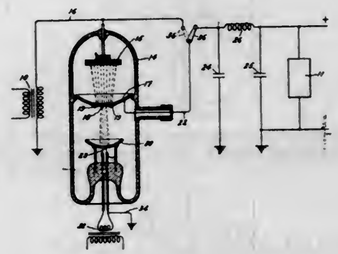
1. The method of treating a mechanical fabric of the character described formed in substantial part of wool fibers to enhance its resistance to stretching and disintegration caused by exposure to alkaline solutions, hydrosulphites, sulfur dioxide, chlorine and hypochlorous acid which comprises chroming the fabric by treating it with an acid solution of an alkali dichromate and thereafter treating the fabric with a reducing agent to reduce the chrome therein to chromium oxide.

2,284,388
RIPPER
Albert G. Gurries, Gilroy, Calif., assignor to Be-Ge Manufacturing Company, a copartnership comprising Albert G. Gurries and James A. Bussert, Gilroy, Calif.
Application June 21, 1940, Serial No. 341,650
2 Claims. (Cl. 262—8)



1. In a ripper which includes a longitudinal frame beam disposed above ground level, transversely spaced supporting members projecting rigidly from one end of said beam, a ripper tooth unit including a shank disposed between said members, a pivot pin removably supported by said members, the shank having vertically spaced holes to selectively receive the pin, a hydraulic cylinder mounted lengthwise on said beam and operatively connected with the shank to swing the latter about said pin, and a rigid stop element mounted between the members engaging the forward edge of the shank above the pin when the tooth is in ground engagement; said holes being centered on a line parallel with said shank edge, whereby the digging angle of the tooth remains the same, and the shank engages said stop, irrespective of any change in the digging depth.

2,284,389
RECTIFYING SYSTEM
Siegfried Hansen, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application August 31, 1940, Serial No. 355,060
2 Claims. (Cl. 175—363)

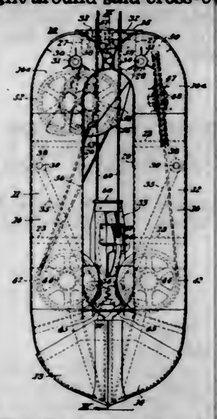


1. In an electrical system involving the use of a unidirectional potential of sufficient intensity to require substantial insulation of the high potential parts of the system, the combination which includes a high potential terminal and a low potential terminal for the system, an alternating current source, and an electronic rectifier in circuit between the said source and the said terminals for supplying rectified potential from the former to the latter, said rectifier comprising an anode connecting with the said source, a main cathode cooperating with said anode and connecting with the said high potential terminal of the system, a separately heated auxiliary cathode cooperating with said main cathode, a source of heating current connecting with the auxiliary cathode, and means effective during the normal operation of the system to impress between the main and auxiliary cathodes at least a substantial portion of the rectified potential existing between the said system terminals, thereby to produce between such cathodes a continuous unidirectional discharge adapted to maintain the main cathode at an emissive temperature; the main cathode being insulatingly separated from the auxiliary cathode within the rectifier whereby the need for additionally insulating the main cathode from the low potential parts of the system is avoided.

2,284,390
CLAMSHELL BUCKET
Edward L. Harrington, Pittsburgh, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a corporation of New Jersey
Application November 13, 1941, Serial No. 418,937
5 Claims. (Cl. 37—186)

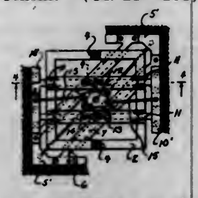
2. A clamshell bucket comprising a head, a pair of hinge frames pivoted on said head, cooperating scoops secured to the lower ends of said frames, respectively, a pair of closing sheaves journaled in the lower portion of each hinge frame, a crossover sheave journaled in one hinge frame above

the closing sheaves thereof and a closing cable having a bight around said cross-over sheave and



leads extending therefrom around alined pairs of closing sheaves in the two hinge frames.

2,284,391
FLUE CLEANER
John Hefle, Milwaukee, Wis.
Application September 15, 1941, Serial No. 410,866
1 Claim. (Cl. 15—163)



A flue cleaner comprising a rectangular skeleton frame including a plurality of connected superposed rectangular sections spaced apart and secured together, which frame section having tracks, oppositely disposed brush heads movable on said tracks, plunger bars extending therefrom toward the center of said frame, expansion springs interposed between companion opposed plunger bars, a centrally disposed rocking rod mounted in the frame and crank arms connecting each pair of brush heads with the rod whereby all brush elements may be simultaneously retracted.

2,284,392
ELECTRICAL CONNECTOR
Myron G. Heiser, Devon, Conn., assignor to General Electric Company, a corporation of New York
Application January 10, 1941, Serial No. 373,972
1 Claim. (Cl. 173—361)



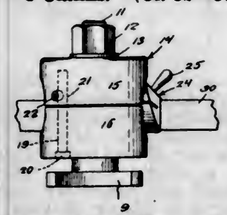
A plug connector for use with a receptacle having spaced contact members each formed with a bearing surface for making electrical contact with the connector comprising, in combination, a body of insulating material having connector prongs extending outwardly from the body in spaced parallel relationship, each prong comprising a rectangular strip of sheet metal looped back upon itself to form flat, parallel extensions in engagement with one another providing a flat rectangular prong of predetermined thickness for cooperation with the bearing surface of a receptacle contact, the looped portion of the strip at the outer end of the prong being enlarged to provide a bulbous end of greater thickness than the rectangular portion of the prong for holding the prong in engagement with the receptacle contact, the portions of the strip forming the loop being inflexible so that the looped portion of the prong is snapped past the bearing surface without flexing to bring the flat rectangular portion in seated engagement with the bearing surface, the ends of the extensions opposite the looped portions being located within the body of insulating material.

2,284,393
HANGER SHELF
William Henry, Jackson Heights, N. Y.
Application September 18, 1941, Serial No. 411,294
3 Claims. (Cl. 211—90)



1. In a shelf, the combination with two substantially triangular end members having attachment eyes at the upper and lower extremities of their vertical elements, a bar extending horizontally from the lower portions of each of said elements, said bars extending angularly upward at their outer ends and united to the upper portions of the vertical elements, all being of integral construction, a plurality of rack rods alternatingly long and short, said rods having their ends bent at right angles in the same direction, and means to maintain said rods in uniformly spaced relation, the ends of the shorter rods abutting the inner surfaces of said horizontal bars and the ends of the longer rods reaching over the bars to contact their outer surfaces.

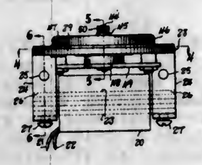
2,284,394
TOOLHOLDER
Kenneth J. Klein, Erie, Pa.
Application July 16, 1941, Serial No. 402,672
5 Claims. (Cl. 82—36)



1. In a tool bar mounting, a body having an opening to freely receive a tool bar for adjustment vertically and longitudinally, means for securing said body to a support, a sectional casing carried by said body and having openings matching the first-named opening, means for securing the sections of the casing for limited movement

relative to each other, a contractible eccentric receiving the tool bar and rotatably received in the second named opening for the vertical adjustment of said tool bar with relation to the body, and means between the body and one section of the casing to bring about gripping of the eccentric for the contraction thereof on the bar.

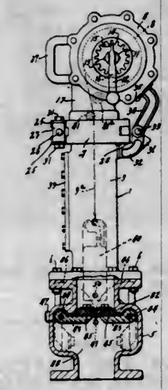
2,284,395
SELF-STARTING SYNCHRONOUS-ELECTRIC MOTOR
Walter Kohlhagen, Elgin, Ill.
Application June 29, 1940, Serial No. 343,218
2 Claims. (Cl. 172—278)



1. A self-starting alternating-current synchronous-electric motor-structure including in combination: two plate-like substantially-semicircular pole-pieces formed of magnetic material and arranged in substantially the same plane and in opposition to each other to constitute a substantially-ring-like stator, each of the said pole-pieces having a plurality of salient polar-projections extending inwardly toward the polar-projections of the other of the pole-pieces, each of the said polar-projections having a circumferential inner face-width substantially corresponding to the width of the gaps therebetween; an alternating-current energizing-coil associated with the said substantially-semicircular pole-pieces and imparting opposite instantaneous polarity respectively thereto; and a rotor of magnetic material revolvable interiorly of the two said pole-pieces adjacent the salient polar-projections thereof, the said rotor having an annular series of perforations spaced from each other at an angular distance substantially corresponding to the angular face-width of the polar-projections of the said pole-pieces; the said substantially-semicircular pole-pieces having relatively-high eddy-current-loss characteristics and relatively-low hysteresis characteristics as compared to the similar characteristics of the said rotor, and the said rotor having relatively-low eddy-current-loss characteristics and high hysteresis characteristics as compared to the two said pole-pieces.

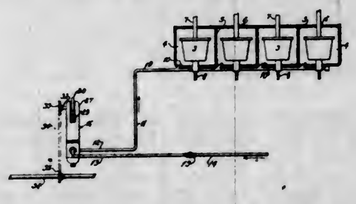
2,284,396
GAUGING AND SAMPLING APPARATUS FOR PRESSURE TANKS
Walter Pfeiffer, Huntington Park, Calif., assignor to Frank V. Long, doing business as The Vapor Recovery Systems Company, Compton, Calif.
Application April 1, 1940, Serial No. 327,242
3 Claims. (Cl. 33—126.7)

1. In apparatus for gauging the depth of liquid in a tank under pressure, the combination of a housing to seat over an opening in the tank cover, a reel with gauge-tape rotatably mounted in the housing, a substantially gas-tight valve for sealing off the housing below the reel, including a pair of hingedly supported gates with compressible packing means, said packing means having substantially straight free edges closing against the tape and impressed by the tape, to form space for the tape between said edges, and operating to make a substantially gas-tight closure



around the tape, and a reading window in the side of the housing for reading the tape.

2,284,397
APPARATUS FOR USE IN THE MANUFACTURE OF RAYON
Peter P. Kriek, Enka, N. C., assignor to American Enka Corporation, Enka, N. C., a corporation of Delaware
Application January 16, 1940, Serial No. 314,163
2 Claims. (Cl. 18—8)

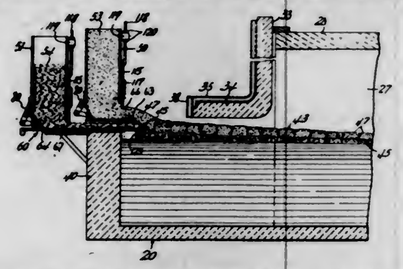


2. A centrifugal pot collecting mechanism for freshly spun rayon comprising a spinning pump, means for actuating the same, a centrifugal pot, a chamber therefor, means for directing a spray of salt solvent into said chamber, valve means controlling the flow of salt solvent from said directing means and means actuated in timed relation to the actuation of said pump to open and close the valve means at a frequency proportional to the rate of spinning and hence the rate of salt formation so as to supply without waste the required solvent to cause salt removal and inhibition of salt formation between periods of solvent supply.

2,284,398
METHOD OF AND APPARATUS FOR SUPPLYING GRANULAR MATERIAL
Karl G. Kutchka, Wilkinsburg, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application April 11, 1940, Serial No. 329,080
10 Claims. (Cl. 49—54)

1. A method of supplying granular material upon a molten bath which comprises depositing a plural layer blanket of meltable granular materials of different types substantially across the

width of the bath and moving said blanket in stratified form along the body of the bath, and



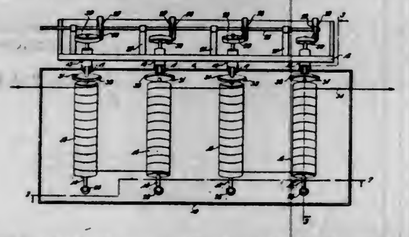
melting the blanket of material as it moves farther along the bath.

2,284,399

APPARATUS FOR THE MANUFACTURE OF ARTIFICIAL MATERIALS

Anton Lely, Velp (Gld.), and Gerhardus Eeninkwinkel, Arnhem, Netherlands, assignors to American Enka Corporation, Enka, N. C., a corporation of Delaware

Application March 7, 1939, Serial No. 260,456
In Germany March 16, 1938
3 Claims. (Cl. 18—8)



3. Apparatus for use in the treatment of freshly formed synthetic filaments comprising, a plurality of cantilever thread-storage, thread-advancing units, to each of which thread is successively passed, each unit comprising a pair of vertically spaced rollers the upper of which is mounted in fixed position while the other is adjustable with respect to the horizontal, both of the rollers of each unit being disposed in the same vertical plane, a container for treating liquids extending below each of said units, the upper edge of said container lying in a plane above the lower surface of the lower roller but below the upper roller of each unit, pivotal means supporting the lower roller of each unit for movement in a vertical plane about an axis adjacent one end only thereof, means outside the container acting on the pivotal means to move the respective roller to vary the angle of convergence of the upper and lower rollers of the unit and means for driving the upper rollers of adjacent units at different speeds.

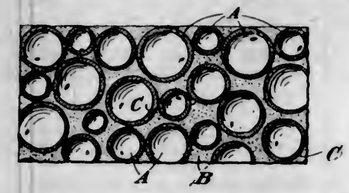
2,284,400

THERMAL INSULATION

Frederick T. Llewellyn, Pittsburgh, Pa., and Walter S. Painter, New York, N. Y., assignors to United States Steel Corporation of New Jersey, a corporation of New Jersey

Application April 7, 1939, Serial No. 266,622
1 Claim. (Cl. 106—84)

A composition of matter for fireproofing comprising approximately 55 per cent by weight of bubble slag held en masse by a binder comprising by weight approximately 5 per cent asbestos,



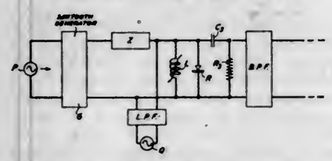
4 per cent zinc oxide and 35 per cent sodium silicate.

2,284,401

MODULATION CIRCUIT

Jack M. Manley, East Orange, and Leishman R. Wrathall, River Edge, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 27, 1940, Serial No. 354,372
6 Claims. (Cl. 179—171.5)



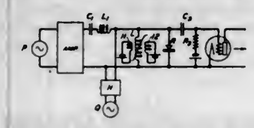
1. In a phase modulating circuit for modulating a carrier frequency wave with a signal, a source of base frequency waves, a peak producing device excited by said source to give sharp impulses, a source of signal wave associated with the device to produce therein phase modulation waves of a carrier frequency harmonically related to said base frequency, the base frequency source delivering waves of saw-toothed form and means to select said modulated carrier waves for transmission.

2,284,402

MODULATION CIRCUIT

Jack M. Manley, East Orange, and Leishman R. Wrathall, River Edge, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 27, 1940, Serial No. 354,373
9 Claims. (Cl. 179—171.5)



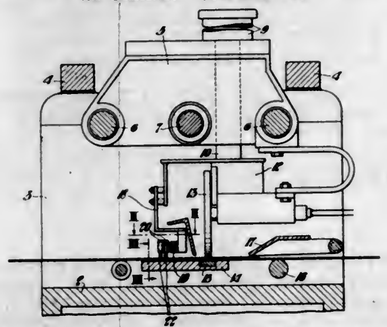
1. In a phase modulating frequency multiplying system, a source of base frequency waves, a harmonic generator excited thereby, a source of signal waves, means to impress the signal waves upon said generator to produce phase modulated waves of high frequencies relative to said base frequency, said generator possessing inherent tendency toward unsymmetrical operation with consequent tendency toward production of distortion in the modulated waves, direct current biasing means for applying a bias to said generator that is small in comparison with the maximum amplitude of the signal wave and of a magnitude and polarity such as to compensate said distortion, and means to utilize the phase modulated waves for signal transmission.

2,284,403

AUTOMATIC MEANS FOR CONTROLLING WELDING MACHINES

Frank Marquart, Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey

Application March 1, 1941, Serial No. 381,328
12 Claims. (Cl. 219—4)



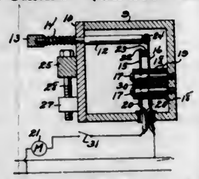
1. In a welding machine of the class described for welding metallic articles, an electrically energized welding wheel, an electric circuit with said welding wheel arranged therein, and means which is adapted to contact the article being welded, said contacting means adapted to control the energization of said circuit and said welding wheel and to permit the welding wheel to be energized when said contacting means contacts the article to be welded.

2,284,404

SWITCH FOR LATHES

Harry D. Martin, Albion, N. Y.

Application May 27, 1940, Serial No. 337,524
1 Claim. (Cl. 200—47)



In automatically operable switch mechanism for lathes, a rectangular shaped casing, a bar secured to the casing and projecting laterally thereof, a pair of clamps carried by the said bar for removably connecting the bar to a lathe, the said casing having a bore through one end thereof, a horizontally disposed push rod slidably extended through the said bore, the said rod having an enlarged portion at its inner end forming a shoulder for limiting the outward movement of the rod, a bumper element fastened on the outer end of the rod, a spring sleeved about the outer portion of the rod between the casing and the bumper to yieldingly force the rod to an extended inoperative position, an insulated support member secured in the casing, a pair of switch arms supported vertically in the casing on the insulated support, the said arms being disposed in approximately parallel spaced apart relation, means connecting the inner fixed ends of the arm to the terminals of an electric circuit, one of the said arms being formed of resilient material and being substantially longer than the complementary arm so that a free end portion thereof projects vertically beyond the free end of the other arm, the said extended end portion of the resilient arm being in horizontal alignment with the push rod and normally separated therefrom, and a pair of contact elements secured to the respective arms and disposed to assume contacting circuit closing positions when the resilient arm is released and to assume separated circuit opening position when the resilient arm is swung laterally by retraction of the push rod by a movable portion of the lathe.

2,284,405

HIGH FREQUENCY APPARATUS

Elmer D. McArthur, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application August 17, 1940, Serial No. 353,132
9 Claims. (Cl. 250—36)



1. In combination, a resonant structure for use at a particular frequency comprising a pair of generally similar disk-like members positioned in face-to-face relation, a conductive hub extending between the members at a region surrounding their line of centers, the members being sufficiently close so that the inductive reactance of the hub is negligible in comparison with the lumped capacitive reactance of the members and the radius of the hub being correlated to the common radius of the members to compel the occurrence between the members of radially propagated standing waves when the structure is excited at the said particular frequency, and an electronic discharge device having electrodes thereof respectively connected to said members at a region chosen to assure the effective interchange of energy between the resonant structure and the device as an incident of the occurrence of said radially propagated waves, the radial distance r_p between the said region of connection of the electrodes and the line of centers of the disk-like members being related to the radius r_0 of the hub by the equality

$$\frac{J_0(2\pi r_0/\lambda)}{N_0(2\pi r_0/\lambda)} = \frac{J_1(2\pi r_p/\lambda)}{N_1(2\pi r_p/\lambda)}$$

where J_0 and J_1 represent Bessel functions of the first kind and respectively of the zero and first orders, N_0 and N_1 represent Bessel functions of the second kind and respectively of the zero and first orders, and λ represents an operating wave-length corresponding to the said particular frequency.

2,284,406

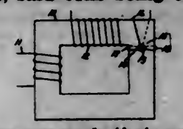
TRANSFORMER

Franklin R. D'Entremont, Lynn, Mass., assignor to General Electric Company, a corporation of New York

Application March 1, 1940, Serial No. 321,716
13 Claims. (Cl. 175—358)

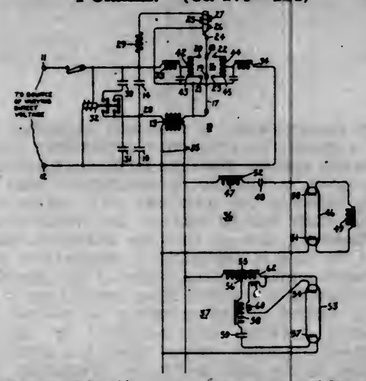
1. An electric transformer including a unitary magnetic core, a portion of said magnetic core defining two parallel paths for the magnetic core flux, a winding on said core having one portion

surrounding said core and a second portion surrounding only one of said parallel paths, an auxiliary winding arranged around said core portion having one coil surrounding each of said two parallel paths, said coils being connected in se-



ries opposition as regards their voltages produced by the core flux, and the number of turns of each of said auxiliary winding coils being such as to produce a predetermined distribution of magnetic flux between said two parallel paths.

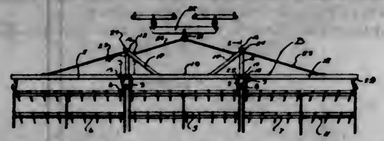
2,284,407
VIBRATOR INVERTER SYSTEM
Martin A. Edwards, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application May 27, 1939, Serial No. 276,212
4 Claims. (Cl. 176—124)



1. In combination, a source of unidirectional voltage varying over a substantial range between predetermined minimum and maximum values, a vibrator inverter connected to said source, a load circuit connected to said inverter comprising an electric discharge device, ballast means to cause said device to operate with a leading power factor of maximum value at said minimum voltage and of minimum value at said maximum voltage, a second load circuit connected to said inverter comprising a second electric discharge device, and ballast means to cause said second-named device to operate with a lagging power factor of minimum value at said minimum voltage and of maximum value at said maximum voltage, whereby the resultant power factor of said load circuits increases when said voltage rises from said minimum to said maximum value.

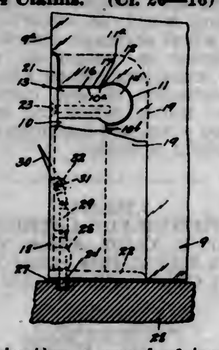
2,284,408
DRAWBAR
Lawrence M. Endres, Waunakee, Wis.
Application November 22, 1940, Serial No. 366,643
1 Claim. (Cl. 55—84)

A drawbar for harrows comprising, a main drawbar section and side sections being formed from tubular lengths of material, with their adjacent ends normally in abutting relation, overlapping hinge leaves rigidly secured to the upper faces of the adjacent ends of said sections, hinge bolts pivotally connecting the overlapping leaves together, forwardly projecting pull bars rigidly secured to the ends of the main drawbar section, the forward ends of said pull bars terminating in apertured ears, diagonally extending brace bars rigidly secured to the ends of the pull bars and



to the main section inwardly of its terminals, pull links connected with the brace bars, inwardly directed straps rigidly secured to the side drawbar sections intermediate the ends thereof, and hooks formed on said straps received in said apertured ears.

2,284,409
FITTING FOR TEMPERED GLASS PANELS
George F. Erath, Queens Village, N. Y., assignor to Pittsburgh Corning Corporation, Allegheny County, Pa., a corporation of Pennsylvania
Application March 8, 1940, Serial No. 322,951
4 Claims. (Cl. 20—16)

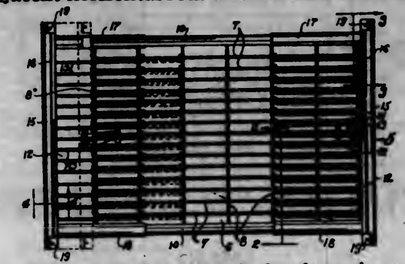


1. In combination a panel of tempered glass, said panel having an approximately rectangular notch formed in an edge thereof to provide a V-like corner, said panel further having a recess formed at the corner, which recess is restricted adjacent to its juncture with the notch, a body disposed in the recess and being confined from displacement in the plane of the panel by the restriction, and cover plates interconnected by a web to provide a rigid shoe secured to the body by screws passing through the web and threaded into the body, the cover plates engaging the adjacent edge portions of the recess to secure the body from displacement in a direction perpendicular to the plane of the door.

2,284,410
ADJUSTABLE END SLIDE GRILLE
John F. Farmer, Indianapolis, Ind.
Application August 22, 1940, Serial No. 353,610
7 Claims. (Cl. 20—71)

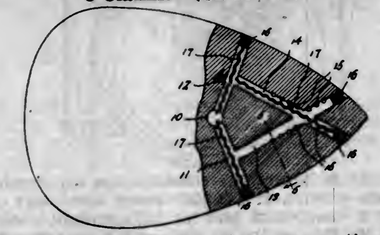
1. In an adjustable grille, a filler comprised of a series of horizontal rods, vertical rods, one at each end of the horizontal series and a plurality of intermediate vertical rods between the end rods, all of said rods being rigidly attached at their intersections, rails secured to the top and bottom edges of the filler, rod extensions for the horizontal rods, each looped at its inner end around an adjacent horizontal rod and slidable thereon between a pair of intermediate vertical

rods, a strip looped over the rod extensions and adjacent horizontal rods and fastened at the ends



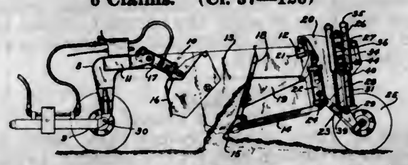
of the loops to the end vertical rods, and a vertical member to which the outer ends of the rod extensions are fastened.

2,284,411
PRESSING IRON
George T. Fielding, Stamford, Conn.
Application July 30, 1940, Serial No. 348,497
3 Claims. (Cl. 38—77)



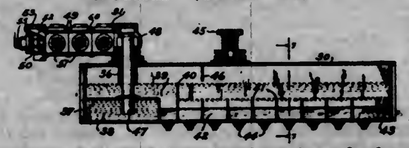
2. In a pressing iron, a steam generating sole plate constructed of a material possessing a relatively high degree of heat conductivity and formed with a water receiving recess opening through the upper surface thereof, said sole plate having horizontally disposed laterally directed bores communicating with said recess, and longitudinally extending bores communicating respectively with said lateral bores and having outlets leading therefrom and opening through the bottom face of the sole plate, said bores being threaded throughout and each opening at the outermost end thereof through the marginal edge of the sole plate, a removable plug threadedly engaging within the outer end of each bore, and a helical element of lesser diameter than said bores and carried by certain of said plugs for extending axially thereof.

2,284,412
SCRAPER
Herman C. Frentzel, Jr., and Henry C. French, Milwaukee, Wis., assignor to The Heil Co., Milwaukee, Wis., a corporation of Wisconsin
Application March 25, 1938, Serial No. 198,025
6 Claims. (Cl. 37—126)



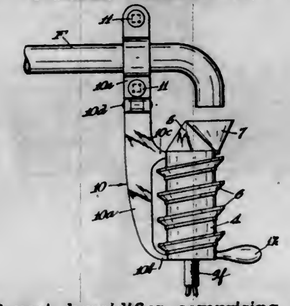
2. In a scraper, articulably connected front and rear frames transportably supported upon front and rear wheels, a load receiving bowl suspended from the rear portion of said front frame, a hydraulic jack having a cylinder suspended from said front frame in back of said bowl and having a plunger movable in said cylinder and connected to said rear frame, a housing carried by said cylinder, a bracket carried by said plunger, and a spring within said housing and coacting with said bracket and said housing.

2,284,413
HYDRAULIC SYSTEM
Herman C. Frentzel, Jr., Milwaukee, Wis., assignor to The Heil Co., Milwaukee, Wis., a corporation of Wisconsin
Application July 20, 1938, Serial No. 220,215
1 Claim. (Cl. 210—60)



A reservoir clarifying structure for a hydraulic system, comprising a receptacle having a separated inlet and an outlet, means within the receptacle forming receiving and outlet chambers, a relatively high dam and spaced lower weirs within the receiving chamber, and longitudinal partitions along opposite lower interior side portions of the receptacle providing conduits between the receiving and outlet chambers.

2,284,414
HUMIDIFIER
Robert W. Gammon, St. Paul, Minn.
Application May 29, 1940, Serial No. 337,866
9 Claims. (Cl. 219—39)

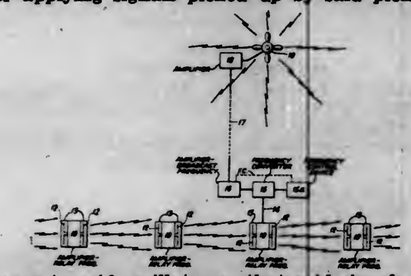


1. A faucet humidifier comprising, structure providing a continuous narrow, open-topped, elongated, somewhat sloping, liquid-conveying channel, a support for said structure constructed for attachment to and for support from a water faucet, open-topped means for catching liquid issuing from a faucet to which said support is attached and for directing and delivering all of the received liquid into the upper portion of said channel, and means for externally supplying heat to substantially said entire channel.

2,284,415
RELAY SYSTEM
Hallan E. Goldstine, Rocky Point, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application November 29, 1939, Serial No. 306,608
3 Claims. (Cl. 250—15)

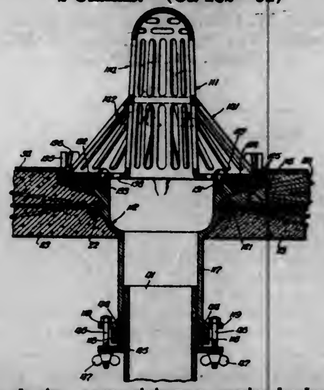
1. In combination, a chain of relay stations adapted to relay frequency modulated signals

from one location to another on ultra high frequencies, said chain passing near an intermediate area over which signals are to be broadcast, pick-up means adapted to receive said ultra high frequency signals connected to one of said relay stations adjacent said area, an oscillator, means for applying signals picked up by said pick-up



means to said oscillator so that said signals are heterodyned to a lower frequency, means for frequency modulating said oscillator in a predetermined sense with respect to the modulation of said frequency modulated signals whereby the modulation index of said lower frequency signals may be adjusted, and means for broadcasting said lower frequency signals over said area.

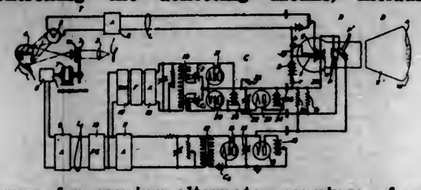
2,284,416
ROOF DRAIN
Arthur Gordon, Chicago, Ill.
Application August 15, 1940, Serial No. 352,723
2 Claims. (Cl. 182—31)



1. A drain, comprising a main body portion adapted to extend through a supporting structure, a main strainer member rigidly secured to said body portion, and an auxiliary strainer member surrounding and removably mounted upon the lower portion of said main strainer member.

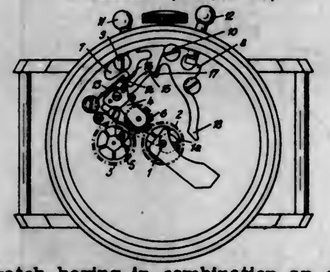
2,284,417
SCANNING SYSTEM
Frank Gray, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 19, 1934, Serial No. 726,462
25 Claims. (Cl. 178—5.2)

1. An electro-optical system comprising a cathode ray discharge device, means for deflecting the cathode beam of said device to scan substantially parallel and successive elemental strips in the same general direction across a field, a source supplying current of selected frequency, and means supplied with current from said source for controlling the deflecting means, including



means for causing alternate scannings of said field to be displaced with respect to each other.

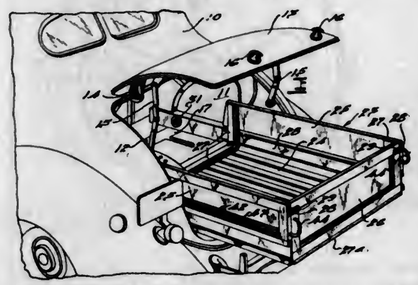
2,284,418
WATCH
Henri Jacot Guyot, Neuchatel, Switzerland
Application March 7, 1941, Serial No. 382,277
In Switzerland January 31, 1940
1 Claim. (Cl. 58—76)



A watch having in combination an ordinary seconds wheel and a center wheel, the latter carrying a heart-cam and an independent seconds hand in the center of the watch movement, a driving wheel mounted on the axle of and above the ordinary seconds wheel, a rocking lever carrying an intermediate wheel constantly meshing with said driving wheel and adapted to be brought into gear with said center wheel for coupling the independent seconds hand with the watch movement and to be moved clear of said center wheel for disconnecting said seconds hand from said movement, a first and a second oscillatable lever cooperating each with said rocking lever, a resetting hammer formed integral with the second oscillatable lever and adapted to act upon said heart-cam, a spring acting upon the rocking lever and tending, on the one hand, to maintain said rocking lever in a position wherein said intermediate wheel is in gear with said center wheel and, on the other hand, to apply said rocking lever against both said oscillatable levers, a pusher acting upon the first oscillatable lever and being adapted to pivot the rocking lever against the spring action by means of said first oscillatable lever for disconnecting the seconds hand from the watch movement, and a second pusher acting upon the second oscillatable lever and being adapted first to pivot the rocking lever against the spring action by means of said second oscillatable lever for disconnecting said seconds hand and then to apply the hammer of said second lever upon the heart-cam for resetting said seconds hand to zero.

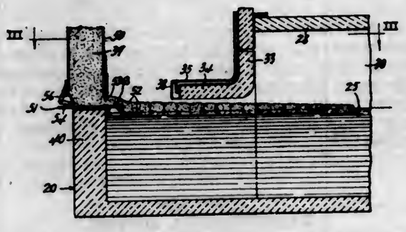
2,284,419
VEHICLE BODY
James W. Greig, Grosse Pointe Park, Mich., assignor to Hudson Motor Car Company, Detroit, Mich., a corporation of Michigan
Application March 20, 1939. Serial No. 262,852
3 Claims. (Cl. 296—26)

1. A portable unit adapted for installation upon the floor of a rear deck compartment in the body of a vehicle in which said rear deck compartment has an opening and a single movable closure member for completely closing said opening, said unit comprising a removable supporting frame and guide structure composed of a pair of transversely spaced channel-shaped members extending longitudinally of the body within said compartment and a channel-shaped frame member extending transversely of said body connected to and disposed below the rear end portions of said longitudinally extending channel-shaped members to support the latter and main-



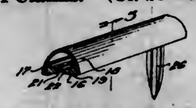
tain them in predetermined spaced relation, a metallic box-like structure having a corrugated bottom slidably mounted upon said frame, and cooperating guide means forming a part of said frame and metallic box-like structure for guiding the box-like structure in a substantially straight line path relatively to said frame and rear deck compartment, said guide means comprising channel-like guideways formed from the metal of the upright side walls of said box-like structure and freely rotatable rollers on the longitudinal channel-shaped members of said supporting frame.

2,284,420
METHOD OF FEEDING GLASS MAKING BATCHES
Howard L. Halbach and Walter G. Koupal, Clarksburg, W. Va., and William Owen, Pittsburgh, Pa., assignors to Pittsburgh Plate Glass Company, a corporation of Pennsylvania
Application April 11, 1940, Serial No. 329,096
16 Claims. (Cl. 49—77)



1. A method of incorporating granular glass making material in a molten glass bath which comprises feeding a uniform layer of the material upon the bath surface at one edge thereof, shielding a portion of the layer after the feeding thereof upon the bath, fritting the upper side of the layer while it is being shielded, and moving the fritted layer farther upon the bath until it is melted.

2,284,421
MOLDING
William J. Hall, Detroit, Mich., assignor to Herron-Zimmers Moulding Company, Detroit, Mich., a corporation of Illinois
Application January 20, 1938, Serial No. 185,811
4 Claims. (Cl. 20—74)



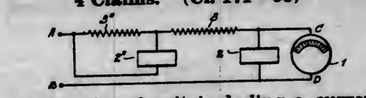
4. Molding comprising an inner elongated strip of steel substantially flat between its side edges and having a longitudinally extending groove pressed into it substantially midway between its side edges and extending substantially throughout the length of the strip, prongs struck out from the grooved portion of the strip and disposed in longitudinally spaced relation and projecting from one side of the strip, each prong being so struck from the strip that the grooved portion continues from one end of the prong to the other with such grooved portion being bent transversely at the junction where the prong is bent away from the strip, and a cover for that side of the strip opposite the prongs and engaging under the side edges of the strip.

2,284,422
MOLDING
William J. Hall, Detroit, Mich., assignor to Herron-Zimmers Moulding Company, Detroit, Mich., a corporation of Illinois
Application August 8, 1938, Serial No. 223,594
2 Claims. (Cl. 20—74)



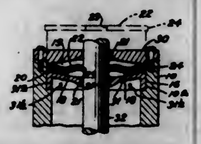
1. A molding comprising an elongated base having its central, longitudinally extending portion of increased strength relative to other portions, integral prongs struck from the central part of the base and projecting from one side thereof, and a cover portion integral with the base at one edge thereof and which is bent over the opposite side of the base for the purpose of providing a cover element for said opposite side.

2,284,423
MEASURING INSTRUMENT
Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application June 1, 1940, Serial No. 338,324
4 Claims. (Cl. 171—95)



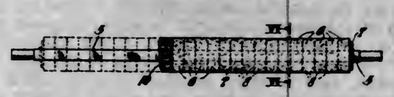
1. A voltmeter circuit including a current responsive meter having a scale compressed at both ends with respect to the center, a pair of multiplying resistances connected in series with said meter and a shunt across said meter, said shunt having a resistance which decreases with increasing potential applied thereacross whereby the sensitivity of said meter is decreased for large potentials applied to said circuit, one of said multiplying resistors having a resistance which decreases with increase in voltage thereacross for decreasing the sensitivity of said meter for small potentials applied to said circuit.

2,284,424
PACKING GLAND WITH OVERSIZE FLOATING GASKET
George N. Heim, San Carlos, Calif.
Application May 31, 1940, Serial No. 338,170
4 Claims. (Cl. 286—26)



1. In a packing gland structure, a cylinder, a relatively reciprocable member in the cylinder providing a hub for a gasket, a gasket holding compartment having axially spaced walls providing relatively spaced opposing faces transversely of the cylinder, and a gasket flexible throughout its body mounted in the compartment between said spaced wall faces, said gasket being of lesser axial thickness throughout its area than the axial width between said wall faces whereby the gasket is axially movable throughout its area and is subjected to the pressure in the cylinder over substantially the entire area of one gasket face, said gasket at its central portion having a hole therethrough for snugly engaging the reciprocable member hub and having a radial width greater than the radial distance between the wall of said hub and the opposing wall of the cylinder.

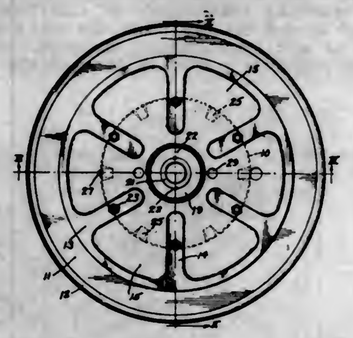
2,284,425
CLOTH ROLL
Alexander G. Henry and Howard C. Rodgers, Birmingham, Ala.
Application September 12, 1939, Serial No. 294,554
3 Claims. (Cl. 15—230)



3. A method of assembling apertured limp and soft disks on a shaft under pressure to produce a long cleaning and polishing roll, said method comprising placing a group of said disks on said shaft, placing an apertured stiff and hard disk on said shaft next said group, applying pressure to said disks and said group to compress the latter compactly, canting said disk so it grips said shaft, releasing said pressure, said disk holding pressure on said group, and successively repeating said steps until a roll of the length desired is assembled.

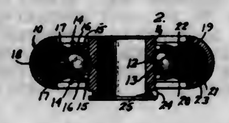
2,284,426
SPOOL
Hilyard C. Howsam, Chicago, Ill., assignor to Hubbard Spool Company, Chicago, Ill., a corporation of Illinois
Application June 22, 1940, Serial No. 341,841
1 Claim. (Cl. 242—123)

A metal spool comprising a pair of axially spaced heads, each of said heads comprising a straight flat inner plate having a central opening and a reinforcing outer plate of less diameter than said inner plate and having a central opening bounded by an outturned axial flange integral with said outer plate, a tube extending axially of said spool and having ends entered in the openings and bent about said flange and welded to said outer plate, a barrel extending axially of said spool and with its ends engaging said inner plates, bolts within said barrel and retaining said inner and outer plates in clamped relation to said barrel, said outer plate having a flat peripheral portion lying against said inner plate and welded thereto, and having a flat an-



nular portion adjacent said flange, inwardly directed and peripherally spaced radial flat portions extending from the peripheral portion of said outer plate and bounded by raised portions of said outer plate in spaced opposed relation to said inner plate to define a plurality of channels, and the ends of said bolts being positioned in said channels and guarded by said raised portions.

2,284,427
ROLLER CONSTRUCTION
George H. Hufferd and Matthew P. Graham, Detroit, Mich., assignors to Crawford Door Company, Detroit, Mich., a corporation of Michigan
Original application September 9, 1940, Serial No. 355,906. Divided and this application March 8, 1941, Serial No. 382,312
6 Claims. (Cl. 16—107)

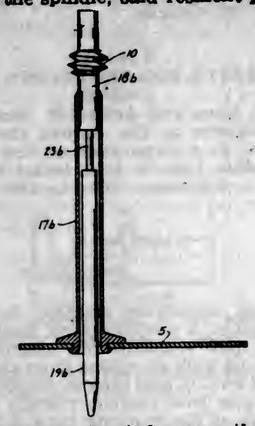


1. A roller or wheel construction comprising a cylindrical hub, anti-friction elements rotatable around said hub, a pair of spaced opposed outer race rings housing said anti-friction elements, a single resilient body member urging said race rings together, and a metal tire encasing said resilient body member.

2,284,428
ELECTRICITY METER
Josef Indergand, Zug, Switzerland, assignor to Landis & Gyr, A-G., Zug, Switzerland, a corporation of Switzerland
Application November 8, 1938, Serial No. 239,474
In Switzerland November 15, 1937
3 Claims. (Cl. 308—159)

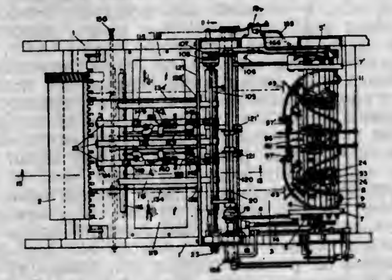
2. In an electricity meter, a driven disc and spindle, said spindle having a rigid upper part and a medial transversely resilient part, a long hollow hub connecting said disc and said upper

rigid part of the spindle and enclosing said resilient part of the spindle, said resilient part being



relatively short and located nearer the juncture of the hub and spindle than to the disc.

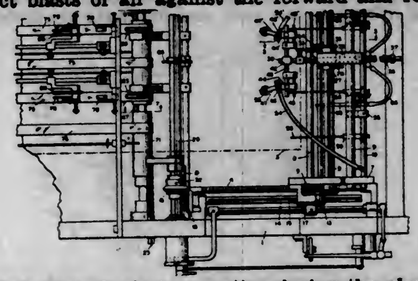
2,284,429
FEEDING MECHANISM FOR PRINTING PRESSES
Joseph F. Jirousek, Cleveland, Ohio, assignor to The Chandler & Price Company, Cleveland, Ohio, a corporation of Ohio
Application October 13, 1939, Serial No. 299,308
6 Claims. (Cl. 271—20)



1. In sheet feeding mechanism for printing presses and the like, means for buckling the two rear corners of the top-most sheet on a stack, said means comprising frictional means and hold-downs adjacent said corners continuously bearing on such stack, suction means operative to seize the resultant buckled portions of said sheet and elevate the rear edge thereof, air-blast means interposable between said top-most sheet and the next sheet of the stack and operative to float said top-most sheet, and suction means operative to seize and horizontally advance said top-most sheet, the forward edge thereof being floated by said air-blast.

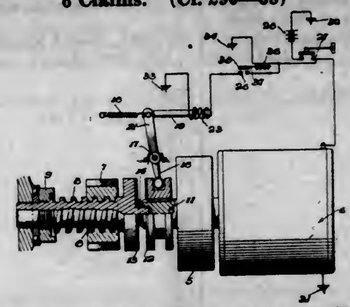
2,284,430
SHEET FEEDING MECHANISM
Joseph F. Jirousek, Cleveland, Ohio, assignor to The Chandler & Price Company, Cleveland, Ohio, a corporation of Ohio
Application November 30, 1940, Serial No. 367,993
12 Claims. (Cl. 271—12)

1. In sheet feeding mechanism for printing presses and the like, suction means operative to seize, elevate and advance the top-most sheet of a stack, and air-blast means positioned to direct blasts of air against the forward and rear



edges of such stack operative during the elevation of such sheet.

2,284,431
ENGINE STARTING APPARATUS
Daniel P. Kearney, Birmingham, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application July 2, 1941, Serial No. 400,845
6 Claims. (Cl. 290—38)



6. In combination with an engine starting inertia member rotatable to high speed to store energy, an engine-engaging member operable by said inertia member, means for moving said engine-engaging member to engine-engaging position, and heat responsive means for causing torque transmission to said engine-engaging member from said inertia member, only after the engine-engaging member has moved into full engine-engaging position.

2,284,432
PLASTIC
James A. Kennedy, Los Angeles, Calif.
No Drawing. Application June 5, 1940, Serial No. 338,933
4 Claims. (Cl. 260—765)

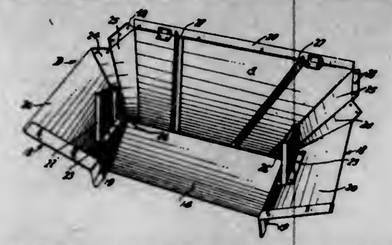
2. A thermo-plastic of the character described comprising the following ingredients in the proportions stated:

Sulphur	parts	25–45
Aluminum stearate	do	2–6
Powdered silica	do	5–9
Wood flour	do	3–7
Sugar	do	1–2
Rubber	do	1–4

2,284,433
GRAIN PAN FOR COMBINES
Alfred Korsmo, Hopkins, and Martin Ronning, St. Louis Park, Minn., assignors to Minneapolis-Moline Power Implement Company, Minneapolis, Minn., a corporation of Delaware
Application January 25, 1940, Serial No. 315,592
12 Claims. (Cl. 130—27)

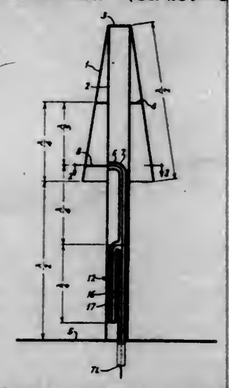
1. A grain pan structure for a combine com-

prising a pan, inwardly sloping side members on opposite lateral margins of the pan, rocker arms for vibrating the pan and extended in upright



planes at either side thereof, the said side members having openings to clear the rocker arms, and boots secured to the side members and loosely enclosing portions of the said rocker arms.

2,284,434
ANTENNA
Nils E. Lindenblad, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application February 24, 1941, Serial No. 380,147
10 Claims. (Cl. 250—33)



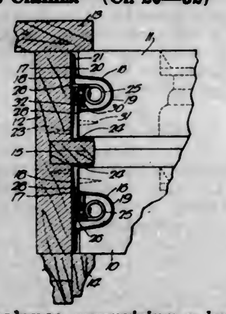
1. A short wave antenna comprising a vertical half wave radiator in the form of a hollow truncated cone closed at the small end, said radiatcr being supported above a plane conductive surface at a distance therefrom equal to a half wavelength at the operating frequency by a hollow conductive mast, said mast extending within the large end of said cone and connected to said cone at the small end thereof, a conductive connection between said mast and the interior of said radiator at substantially its midpoint, means for energizing said radiator from a source of high frequency energy comprising a concentric transmission line having an inner conductor and an outer sheath within said hollow mast, the outer sheath of said transmission line being connected to said mast, means for connecting said inner conductor to the inner surface of said radiator at such point that the impedance of said radiator presented to said transmission line is substantially equal to the impedance of said transmission line, said connecting means being in the form of a flat plate tapered in width and having its small end connected to said inner conductor and its large end connected to said inner surface and means for compensating for the reactance of said antenna comprising a similar reactance connected in shunt to said transmission line at a distance from its point of connection to said radiator of a quarter wavelength.

2,284,435
APPARATUS FOR PRODUCING COOKED CASEIN
Vernon J. Lowe and Arthur W. Bean, Marengo, Ill., assignors to The Borden Company, New York, N. Y., a corporation of New Jersey
Application July 25, 1940, Serial No. 347,510
6 Claims. (Cl. 23—260)



6. In an apparatus suitable for producing cooked casein, a curdling tank adapted to contain skim milk, a downwardly extending baffle in said curdling tank extending from above the normal liquid level in said tank to well below the said normal liquid level therein, thereby dividing the upper part of the curdling tank into two compartments (AB) and C, a second baffle positioned in compartment (AB), extending upwardly from the bottom of said tank to substantially below the normal liquid level in said tank, said second baffle dividing the lower part of compartment (AB) into two parts A and B, B being intermediate between A and C, a mixing chamber located in the part A, said mixing chamber being provided with a conduit suitable for introducing liquid to be treated into said mixing chamber, another conduit suitable for introducing a liquid treating agent into said mixing chamber, and said mixing chamber also being provided with heating means; an overflow means located in the upper part of said compartment (AB), said overflow being adapted to deliver precipitated product to a second tank adapted for washing and cooking said product, and a vertically adjustable outlet for liquid in the said compartment C of said curdling tank adapted for drawing off residual portion of treated liquid and for maintaining a normal liquid level in said curdling tank, a second tank having means for projecting a strong flow of hot water against a position therein below said overflow means, and separate outlet means adapted for separately drawing off product washed and cooked by said hot water, and wash water, from said second tank.
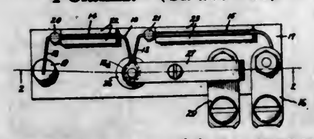
2,284,436
COMBINATION SASH BALANCE AND WEATHER STRIP
Herbert K. Lundgren, Ripon, Wis.
Application December 12, 1940, Serial No. 369,823
6 Claims. (Cl. 20—52)



1. A sash balance comprising a base member

and a tubular housing, the housing having opposed side portions connected together at their outer edges, one of said side portions having its other edge connected to said base member and the other of said side portions having its other edge provided with a flange extending inwardly of the housing in spaced relation to said base member, a sash strip having a portion extending into said housing between said flange and said base member and re-bent around said flange and another portion extending outwardly from said housing for attachment to a sash, and a spring disposed within said housing and having its opposite ends connected respectively to said base member and said strip.

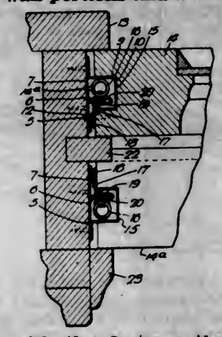
2,284,437
SNAP SWITCH
John E. Lake, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application March 20, 1941, Serial No. 384,228
4 Claims. (Cl. 200—67)



1. A snap switch comprising a support, a torsionally resilient wire having two straight portions joined by a bent portion forming a switch arm, bearing means securing said portions to said support for rotation on said support, a movable contact carried by said arm, an armature carried by said arm, a permanent magnet on said support opposite said armature for biasing said armature and movable contact toward said support to a predetermined position with a force sufficient to produce twisting of said wire, a stationary contact, a spring arm mounting said stationary contact in position to be engaged by said movable contact when said movable contact and said armature are moved away from said magnet, a pair of terminals on said support, electrical connections between one of said terminals and one end of said wire and between the other of said terminals and said spring arm, operating means for turning the other end of said wire thereby to twist the adjacent straight portion of said wire and pull said armature away from said magnet whereby said movable contact is snapped into engagement with said stationary contact and the other one of said straight portions is twisted to apply a force to return the arm to said predetermined position when said other end of said wire is released.

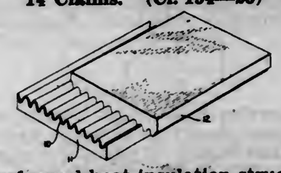
2,284,438
COMBINATION SASH BALANCE AND WEATHER STRIP
Herbert K. Lundgren, Ripon, Wis.
Application July 18, 1940, Serial No. 346,191
11 Claims. (Cl. 20—69)

1. A sash balance comprising an elongated coil spring adapted to be secured at one end to a window frame and at its other end to the sash, a housing structure completely enclosing and concealing said spring and secured to said frame, said housing comprising relatively spaced but mutually overlapping wall portions, means movable between said wall portions for connecting one end of the spring to the sash, said means comprising a member having a base part adapted to be disposed against and secured to the side of the sash, a wall part disposed between said overlapping wall portions and a further wall part



cooperating with the first mentioned wall part to embrace one of said overlapping wall portions.

2,284,439
HEAT INSULATION STRUCTURE AND METHOD OF MAKING THE SAME
Roger A. MacArthur and Harold W. Greider, Wyoming, Ohio, assignors to The Philip Carey Manufacturing Company, a corporation of Ohio
Application July 19, 1939, Serial No. 285,300
14 Claims. (Cl. 154—28)



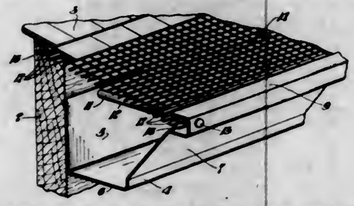
1. A preformed heat insulation structure comprising in combination a sheet of heat resistant material, a first layer of molded heat insulation material of substantially greater thickness than the thickness of said sheet integrally bonded to one side of said sheet and a second layer of heat insulation material of substantially greater thickness than the thickness of said sheet integrally bonded to the other side of said sheet, the heat insulation material of said first layer having substantially greater heat resistance than the heat insulation material of said second layer.

8. A method of making a heat insulation structure which comprises first making a sheet of heat resistant material and then molding on one side of said sheet in integral relation therewith a first heat insulation composition and molding on the other side of said sheet in integral relation therewith a second heat insulation composition, each of said heat insulation compositions being molded from an aqueous slurry and thereafter set and dried, and said first heat insulation composition having substantially greater heat resistance than said second heat insulation composition.

2,284,440
EAVE TROUGH PROTECTOR
Joseph V. Morrissey, Waukegan, Ill., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application August 4, 1940, Serial No. 351,301
5 Claims. (Cl. 108—30)

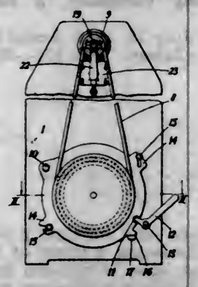
1. The combination with an eave trough of trough supports therefor, and a protector of flexible wire screen having at least two substantial-

ly flat longitudinal wires forming a reenforced selvage edge of appreciable width and not exceeding the thickness of the screen, said protector extending continuously in one piece longitudinally of the trough, and having its selvage



edge entered beneath and held by the shingles of the roof, the other longitudinal edge of the protector being supported adjacent the outer free edge of the trough in the plane of inclination of the protector downwardly from the roof.

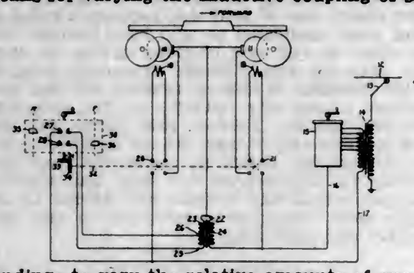
2,284,441
CHANGE SPEED TRANSMISSION GEAR
Wadia Halim Murad, Watford, England
Application July 1, 1941, Serial No. 400,594
In Great Britain February 21, 1940
4 Claims. (Cl. 74—217)



1. A change speed transmission device comprising a frame, a driven pulley carried thereby, a motor unit having a shaft, a driving pulley mounted on said shaft, a flexible transmission member interconnecting said pulleys, a substantially circular plate carrying said motor unit and driving pulley, said plate being pivoted to said frame at a point to one side of the plane containing the axes of said driving and driven pulleys and having a peripheral notch diametrically opposite said pivot, a cam lever fulcrumed on said frame and engaging in said notch for moving said plate about its pivot to facilitate shifting said transmission member on said pulleys, said plate having peripheral slots, and locking bolts on said frame engageable with said slots to lock said plate in position.

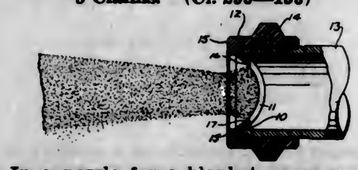
2,284,442
LOCOMOTIVE CONTROL SYSTEM
Harold S. Ogden, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application November 5, 1940, Serial No. 364,369
9 Claims. (Cl. 105—61)

1. The combination of a plurality of electric motors connected in series circuit relation to drive spaced wheels of a vehicle, means for energizing said motors, reversing means for said motors, and means for maintaining substantially the same percentage adhesion at said wheels comprising a plurality of inductively coupled windings connected respectively in parallel circuit relation with said motors, and switching means for varying the inductive coupling of said



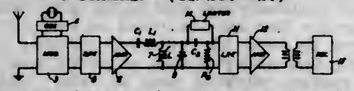
windings to vary the relative amounts of energy supplied to said motors.

2,284,443
BLANKET SPRAY NOZZLE
Raymond P. Paradise, Indianapolis, Ind.
Application July 15, 1940, Serial No. 345,461
5 Claims. (Cl. 299—153)



1. In a nozzle for a blanket spray, an orifice plate having a spherically curved surface convexly presented toward the flow of fluid through the nozzle and having a slot through the plate centrally positioned thereacross, said slot being wider through its central portion than at its ends, said ends terminating in areas normal to the axis of said flow, said areas spacing apart the sides of said slot.

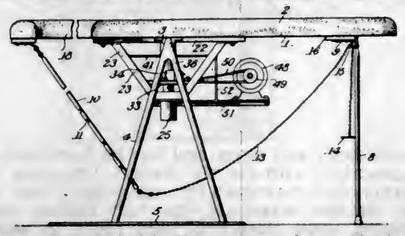
2,284,444
DEMODULATION CIRCUIT
Eugene Peterson, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 27, 1940, Serial No. 354,351
9 Claims. (Cl. 250—20)



1. In a receiving system for wave-length modulated waves, a demodulation circuit comprising a saturable core magnetic harmonic generator adapted to produce sharp positive and negative pulses, means for impressing thereon wave-length modulated waves of sufficient amplitude to cause saturation of the core of said harmonic generator for a part of each cycle to generate alternate positive and negative pulses timed in accordance with the received wave, means for suppressing pulses of the one sign whereby pulses of one sign remain variably spaced on a time axis in accordance with the wave-length modulation of the received waves, and translating means for producing low frequency output current varying in amplitude in accordance with the variable spacing of said pulses on the time axis.

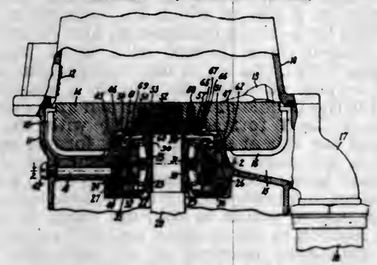
2,284,445
THERAPEUTIC DEVICE
Fred H. Pettit, Cordell, Okla.
Application July 27, 1940, Serial No. 347,960
1 Claim. (Cl. 128—46)

A therapeutic device comprising a table including an upholstered top mounted for tiltable movement and for receiving a patient thereon to be treated, means for holding the top in a horizontal plane and at various angles with respect to said plane, a frame secured to and depending from the top, a cylindrical housing fixed to the lower end of the frame, a shaft mounted in bearings in the housing and rising therefrom, a motor driven belt receiving pulley fixed to the upper end of the shaft, a cup member carried by the pulley, slotted lugs formed on the cup member, means extending through the slots for eccentrically securing the cup member to the pulley for adjustment thereon, a stem having a spherical



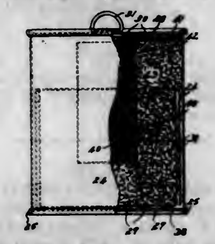
lower end mounted in the cup member, adjustable means engageable with the spherical lower end, an upholstered disk member secured to the upper end of the stem for disposal through the table top for engagement with a patient, a platform bridging the frame member, a collar formed on the platform, a spherical member fixed to the stem between its ends and movably mounted within the collar to cause vibratory movement of the disk member upon rotation of the pulley, and a cup like nut threaded in the collar for holding said spherical member within the collar and providing receptacle for receiving lubricant for said spherical member.

2,284,446
ANTIFRICTION BEARING
James H. Powers, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application December 13, 1940, Serial No. 369,972
3 Claims. (Cl. 308—187.1)



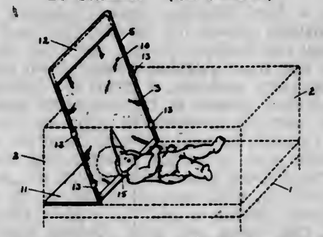
1. In combination, a relatively stationary structure, a relatively rotatable structure journalled in a bearing supported by said stationary structure, and a fluid deflecting element providing a closure for said end of the bearing supporting structure, which element is substantially centrally supported for rotation with said rotatable structure and said element extending outwardly over said end of the bearing supporting structure and said element having provisions inside the bearing supporting structure effective during rotation of the element for returning lubricant from said element to the inside of said bearing supporting structure.

2,284,447
FILTER
Arthur D. Redner, Detroit, Mich., assignor to General Filters Inc., Detroit, Mich., a corporation of Michigan
Application November 15, 1937, Serial No. 174,502
2 Claims. (Cl. 210—131)



1. A filtering cartridge for a filter of the class described comprising a container of impermeable material, the inlet end of said container being perforated and the outlet end of said container being perforated, a foraminated screen directly inwardly of said inlet end, a second foraminated screen within said container and adjacent the side walls thereof and extending from said inlet end partway towards said outlet end, a core of mesh-like material within said container and beginning at a point spaced from said inlet end and extending centrally in said cartridge to said outlet end and fine filtering material substantially filling the remaining portion of said container.

2,284,448
BABY SLEEPING BAG OR SLEEPING COVER
William H. Reinholz, Irondequoit, N. Y.
Application September 30, 1939, Serial No. 297,386
10 Claims. (Cl. 5—336)



1. A sleeping cover for babies comprising a rectangular frame adapted to loosely fit inside a rectangular crib, said frame being made of two U-shaped sections hinged together, a fabric cover suitably connected to said frame, said cover having an opening therein located centrally of the long axis of the cover and adjacent to the hinged joints of the frame, through which opening the baby's head can be placed, a collar around said opening, a slit in the fabric cover extending down from the collar into the cover.

2,284,449
VISE JAW ATTACHMENT
Samuel C. Rodess, Huntington Park, Calif.
Application August 23, 1939, Serial No. 291,519
2 Claims. (Cl. 81—39)

1. In a jaw attachment, a block having a V shaped groove, a work clamping jaw having complementary converging V shaped faces to engage with the faces of the block, means to attach the jaw to the block, there being longitudinal grooves

in the faces of the jaw, the jaw having a semi-cylindrical surface to engage cylindrical work whereby when such work is pressed tightly



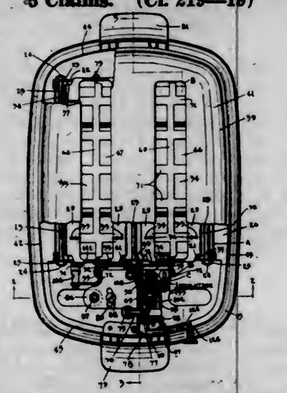
against the jaw the notches may yield to accommodate the cylindrical surface of the jaw to the surface of the work.

2,284,450

FOOD COOKING DEVICE

Robert Sardeson, Minneapolis, Minn., assignor to Harold C. Genter, Miami Beach, Fla.

Application July 28, 1939, Serial No. 287,098
5 Claims. (Cl. 219—19)



1. In a food cooking device, heating means, food shifting means for moving the food toward and from the heating means, resilient means for moving the food shifting means from operative to inoperative position, a latch for holding said food shifting means in its operative position, a pivoted member movable in opposite directions, means carried by said pivoted member adapted to engage said latch for disengaging the latch when the pivoted member is moved in one direction, teeth on said pivoted member, an escapement lever having a pair of pallets adapted to engage the teeth on said pivoted member, a thermally responsive member movable in opposite directions during a cooking period for swinging said lever in opposite directions to release said pivoted member, and means for manually adjusting the distance between the pivot of said pivoted member and the pivot of said lever to vary the depth of engagement of said pallets with said teeth.

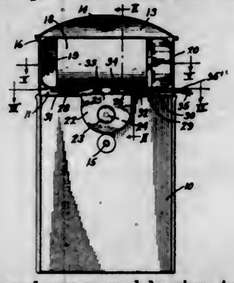
2,284,451

BATTERY PACK FOR ELECTRICAL HEARING AIDS

Walter E. Schauer, Forest Park, Ill., assignor to Otarion, Inc., Chicago, Ill., a corporation of Illinois

Application May 3, 1941, Serial No. 391,762
4 Claims. (Cl. 136—171)

1. A battery pack comprising a casing body and a "B" battery therein, a cover for said body having hinge connection with one end thereof, a frame secured in said cover and an "A" battery supported thereby, a flap on said body adapted to be detachably secured across the top of said body and the "B" battery therein, terminal plates on said flap connected with the "A" battery terminals and disposed between the terminals of said "B" battery when said flap is in secured position, a current supply circuit terminal pad for insertion between said



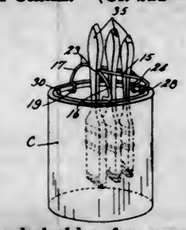
casing body and cover and having terminals for engagement with the "B" battery terminals and having other terminals for engagement with said "A" battery terminals, the "A" battery being adapted upon closure of said cover to engage with and exert pressure against said terminal pad for secure engagement of its terminals with the battery terminals.

2,284,452

PAINTBRUSH HOLDER

Robert J. Simons, Springfield, Mass., assignor to James H. H. Bradford, Longmeadow, Mass.

Application April 15, 1941, Serial No. 388,623
1 Claim. (Cl. 211—65)



A paint brush holder for association with the opening in a can in which the opening is surrounded by a circumferential lip and comprising a T-shaped frame formed of a single piece of springy metal, the leg of the T comprising a rebent section of metal to provide a supporting slot for the handle of a paint brush and with the arms of the T formed integrally with the free ends of the rebent section, hooks formed on the ends of the arms and in the rebent end of the leg, said hooks being so constructed as to engage the upper and lower surface of the lip in the opening at spaced points to hold the frame in spanning relation to the opening, and said rebent section extending upwardly at an angle over only substantially one-half of the diameter of the opening whereby said holder may support paint brushes with the bristles depending into the can by engagement of their handles between the sides of the rebent section.

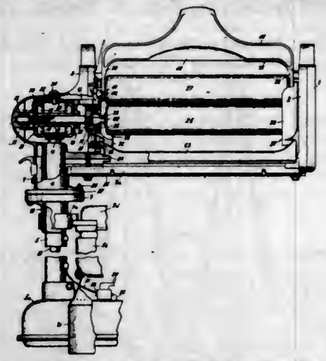
2,284,453

WRINGER

Charles K. Skinner, Southport, Conn., assignor to General Electric Company, a corporation of New York

Application February 7, 1940, Serial No. 317,714
4 Claims. (Cl. 68—256)

1. In a wringer, a lower roll, an upper roll, a carrier therefor, a frame carrying the lower roll and having provisions for loosely receiving the carrier in an upright position, cam means effective upon tilting of the carrier from said upright position for forcing the upper roll against



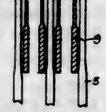
the lower roll, a lamp on the carrier for illuminating the rolls, and means including contacts respectively upon the frame and carrier engaged upon movement of the carrier to a tilted position for controlling the lamp.

2,284,454

KNITTED FABRIC AND METHOD

William L. Smith, Jr., Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts

Application September 8, 1938, Serial No. 228,977
3 Claims. (Cl. 66—194)



1. A method of knitting an elastic base, pile fabric including the steps of drawing an elastic yarn under tension and forming the same into courses of knitted loops comprising both needle and sinker loops, and measuring and drawing the sinker loops of such a length that they will contain substantially twice as much elastic yarn as adjacent needle loops, and simultaneously with the drawing of the elastic yarn loops, drawing a non-elastic yarn to plate the needle loops over the elastic yarn at the face of the fabric and to project to the back thereof as pile loops at sinker wales, whereby upon release of the fabric and contraction of the elastic yarn, the elastic base of the fabric will not contract beyond a point at which it remains porous or open and said pile yarn will cover the elastic at the face of the fabric as a plating yarn but will project to the back as terry or pile loops.

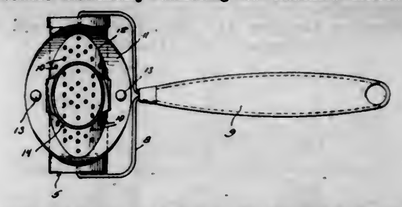
2,284,455

PASTRY CUTTER

Warner Stauffacher, Minneapolis, Minn.

Application October 7, 1941, Serial No. 414,033
3 Claims. (Cl. 107—47)

1. In a pastry cutter, a roller having perforations for sifting ingredients stored in said roller on the dough acted on by the roller, a handle connected to said roller, companion cutter blades of substantially oval shape arranged in opposed relation and secured to each other and of flexible material normally tending to assume flattened



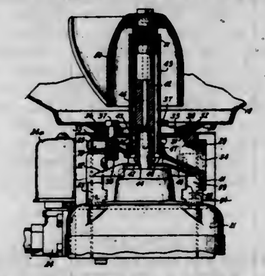
opposed relation to each other and having openings to permit passing of the roller through said blades to permit the latter to grip said roller for cutting dough into pieces of selected shape by the rolling of the roller over the dough.

2,284,456

WASHING APPARATUS

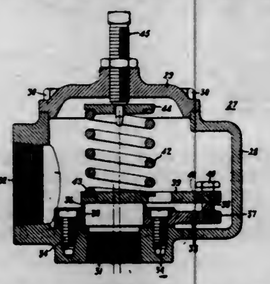
Edgar S. Stoddard, Berwyn, Ill., assignor to Edison General Electric Appliance Company, Inc., Chicago, Ill., a corporation of New York

Application February 27, 1941, Serial No. 380,849
2 Claims. (Cl. 141—9)



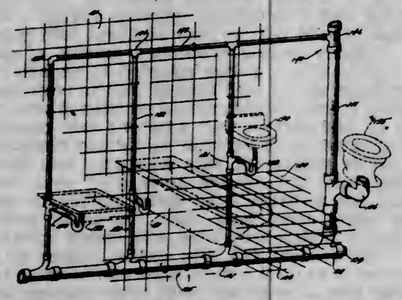
1. A washing apparatus comprising a vat having a bottom wall and an opening in said bottom wall, a drain plate positioned within said vat having a central portion projecting into said opening and a peripheral portion engaging the portion of said bottom wall adjacent said opening, a drain casting positioned outside of said vat and having a flange adapted to engage the outside surface of said bottom wall to cover said opening therein, gasket means positioned over the edge of said bottom wall adjacent said opening and adapted to lie between said drain plate and the inside surface of said wall and said drain casting and the outside surface of said wall, means for securing said drain casting to said drain plate comprising bolts extending downwardly through said opening, said means upon being tightened causing said gasket means to be compressed to form a fluid-tight seal between the bottom wall of said vat, said drain casting and said drain plate, means defining a drain passageway in said drain casting, a flange projecting upwardly into said drain passageway defining an opening in said drain casting, and a tubular member secured in said flange and extending upwardly through said drain passageway and said drain plate to a point substantially above the normal level of fluid in said vat, said tubular means being adapted to receive a shaft for effecting a driving connection between an internally positioned fluid impeller and an externally positioned motor driving unit, said tubular member serving to prevent leakage of washing fluid from said vat through said opening in said drain casting.

2,284,457
RELIEF VALVE
Francis H. Van Nest, Saugus, Mass., assignor to General Electric Company, a corporation of New York
Application October 11, 1940, Serial No. 360,773
1 Claim. (Cl. 137—53)



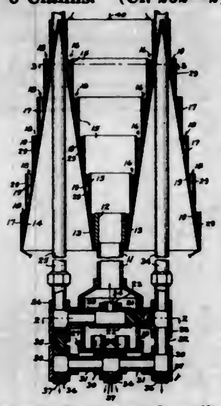
Relief valve comprising a casing having an inlet and an outlet, a member secured within the casing and forming a valve seat adjacent the inlet and a knife edge bearing spaced from the seat, a rigid valve plate having a portion in cooperative relation with the seat and another portion for engaging the knife edge bearing, means biasing the valve plate towards the seat and towards the bearing and to maintain engagement between the plate and the bearing during movement of the plate, said means consisting of a single helical spring having an end portion seated on the plate with its axis slightly off center with respect to the seat in the direction of the bearing, a spring plate engaging the other end of the spring and an adjustable bolt engaging the spring plate and projecting through the casing.

2,284,458
EDUCATIONAL BUILDING SETUP FOR ROUGH PLUMBING
Earl B. Van Antwerp, Whittier, Calif.
Application June 22, 1940, Serial No. 341,863
2 Claims. (Cl. 35—16)



1. A device of the class described comprising a plurality of panels, means for detachably fastening the panels together to represent the floor, walls, and ceiling of a building, a plurality of detachably connected miniature service fittings adapted to be applied to the structure to represent service fittings of a building, the panels being formed of crossed wire strands of sufficiently wide mesh that when a strand is cut adjacent its crossing another strand the freed portion of the strand which is freed by the cutting is sufficient in length to partially encircle a service fitting to hold the fitting against the panel from which the strand is cut.

2,284,459
SUBMARINE HYDRAULIC CONCENTRATOR FOR PRECIOUS METALS
William F. Watkins, Seattle, Wash., assignor of one-half to Clarence Jay Disler, Seattle, Wash., and one-fourth to Nels C. Nelson, Seattle, Wash.
Application January 30, 1939, Serial No. 253,481
8 Claims. (Cl. 262—2)



8. A device of the class described comprising a fluid pressure jet actuated suction pick up means including a housing; suction creating jet means internal to the housing; material agitating jet means external to the housing, said suction pick up means being operable to pick up material from the bottom of a body of water; and a material separating and concentrating device connected with said material pick up means in close proximity to said material pick up means and operable under water to receive and concentrate the material that is picked up by said material pick up means irrespective of the depth of the water and without elevating the material any higher in deep water than in shallow water.

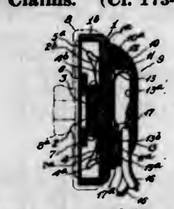
2,284,460
PURIFICATION OF COAL TAR BASES
Joseph H. Wells and Philip J. Wilson, Jr., Pittsburgh, Pa., assignors to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
No Drawing. Application July 22, 1941, Serial No. 403,586
2 Claims. (Cl. 260—290)

1. A method of recovering pyridine bases from a coal tar distillation oil fraction containing said bases along with at least 2% phenol and small volumes of other constituents that are soluble in said phenol; said method comprising washing said fraction with dilute sulphuric acid at a temperature of from 60° to 100° C. until a solution is obtained containing in equilibrium concentration pyridine sulphate and said phenol with said constituents dissolved therein, cooling said solution to a temperature of not more than 40° C., washing said cooled solution at a temperature of not more than 40° C. with a relatively small volume of said fraction to unbalance the equilibrium concentration between said pyridine sulphate and said phenol and cause material volumes of the latter to dissolve in said washing fraction along with said constituents dissolved in said phenol, separating said solution from said small volume of said fraction and rectifying said solution with steam to produce relatively pure pyridine sulphate from which the pyridine bases may be recovered.

2,284,461
MANUFACTURE OF AMINO-CYCLIC SULPHONAMIDES AND THEIR DERIVATIVES
Bertold Paul Heinrich Wiesner and Ernst Katscher, London, England, assignors to Ward Blenkinsop and Company, Limited, Halewood, near Liverpool, England, a British company
No Drawing. Application August 23, 1940, Serial No. 353,986. In Great Britain September 1, 1939
6 Claims. (Cl. 260—288)

1. The process which comprises reacting a para-amino-benzene-sulphofluoride, the amino-group of which is unsubstituted, with a heterocyclic amine having at least one free amino hydrogen.

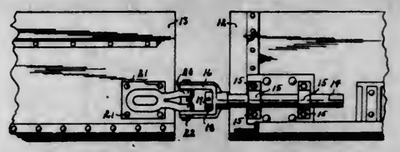
2,284,462
ELECTRICAL CONNECTOR ASSEMBLY
Alfred L. W. Williams, Cleveland Heights, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio
Original application March 20, 1939, Serial No. 262,878. Divided and this application July 20, 1940, Serial No. 346,604. In Great Britain March 20, 1940
7 Claims. (Cl. 173—328)



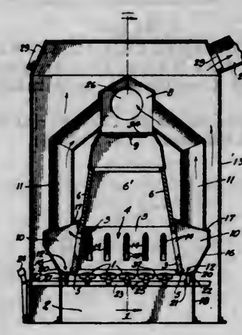
1. A connector comprising a relatively thin body member of generally rectangular shape bounded partially by a flat face of greater length than width, and by an end face, said body member having recesses therein extending inwardly from said flat face, said recesses comprising a first pair of parallel elongated grooves of generally rectangular cross-section and of greater length and depth than width extending lengthwise of said face and spaced from each other and from the bounding edges of said faces, a second pair of parallel elongated grooves of smaller cross-section extending between the ends of said first pair of grooves and the said end face of said body, a relatively shallow transverse recess of greater length and width than depth disposed with its length crosswise of said second grooves, a bent spring-strip contact of generally U shape disposed in each of said first pair of grooves with one leg of said U resting upon the base of said groove and the other leg protruding beyond the surface of said flat face along a portion of the length of said groove, the end portion of said protruding leg being offset inwardly and extending beyond the nearest edge of said transverse recess, a lead-wire disposed in each of said second grooves and in electrical engagement with a leg of the contact, a relatively thin plate disposed in said transverse recess with the lower face thereof in engagement with the said offset end portions of said contacts.

2,284,463
ROAD GRADER
Richard J. Wilson, Jewell, Iowa
Application September 28, 1939, Serial No. 296,928
1 Claim. (Cl. 37—155)

In a device of the class described, a frame, a main scraper blade secured to said frame, a shaft secured to and extending, longitudinally of said scraper blade, a member completely rotatably mounted around the outer end portion of said shaft, an extension blade having its inner end portion hingedly secured to said member to provide its adjustable movement about an axis perpendicular to the axis of said shaft and substantially parallel to its face, and a means for adjustably securing the outer end portion of said extension blade to said frame.



2,284,464
FURNACE AND STOVE CONSTRUCTION
Paul Wingert, Montpelier, Ohio
Application March 7, 1940, Serial No. 322,730
4 Claims. (Cl. 126—99)

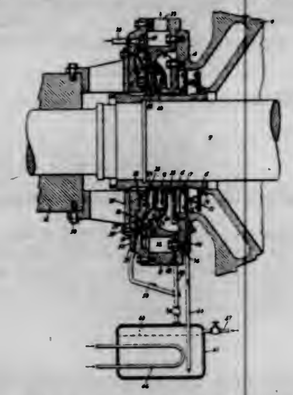


1. A device of the class described comprising a fuel bowl defined by upwardly and inwardly slanting refractory side walls having laterally spaced vertically elongated ports, a grate at the bottom of said fuel bowl, a fuel reservoir above said fuel bowl, a plenum chamber at each side of said fuel bowl communicating with the interior thereof through said ports, and radiating means opening into said plenum chamber and extending upwardly therefrom, said ports terminating well below the upper margin of said refractory side walls and having downwardly and inwardly slanting bottom faces.

2,284,465
SHAFT PACKING
Orla L. Wood, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application November 25, 1940, Serial No. 367,078
15 Claims. (Cl. 286—9)

1. The combination with a turbine casing having an opening and a rotatable shaft projecting through the opening, of a packing arrangement for sealing the shaft to the casing, said packing arrangement comprising an element forming a groove, another element forming a vane concentric with and projecting into the groove, both elements surrounding the shaft, one of the elements being secured and sealed to the shaft, means for rotatably supporting the other ele-

ment on the casing, means for rotating the other element, and means for conducting liquid to the



groove to effect a liquid seal between the two elements during rotation of either of them.

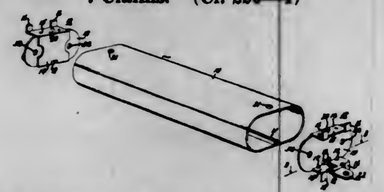
2,284,466

CASING FOR ELECTRICAL APPARATUS

Elmer J. Zelt, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York

Application September 28, 1939, Serial No. 296,935

7 Claims. (Cl. 220—4)



1. A casing including a wall portion having edges defining a seam, a cover means within an end of said casing having flanges extending toward the edge of said wall portion, ears on said flanges clamped to the edge of said wall portion, fingers on one of said flanges engaging said edges, an opening in said wall adjacent the edge thereof and a protrusion on one of said flanges extending into said opening.

2,284,467

HYDROHALOGENATION OF UNSATURATED HYDROCARBONS

Seaver A. Ballard, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application February 28, 1940, Serial No. 321,290

14 Claims. (Cl. 260—663)

14. A process for effecting the hydrohalogenation of an unsaturated organic compound of the group consisting of the unsaturated aliphatic and cyclo-aliphatic hydrocarbons and the unsaturated partially halogenated derivatives thereof which comprises reacting the unsaturated organic compound with a substantially anhydrous hydrogen halide in the presence of sulfuric acid having a concentration greater than 95% at a temperature between about room temperature and the freezing temperature of the sulfuric acid under operating conditions.

2,284,468

HYDROCARBON SYNTHESIS

Robert E. Burk and Everett C. Hughes, Cleveland Heights, Ohio, assignors to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application February 6, 1939, Serial No. 254,891

6 Claims. (Cl. 260—668)

3. In a process of the character described, changing an aliphatic naphtha to aromatics and hydrogen by heating in the presence of a chromium oxide containing catalyst at temperatures of 700–1250° F., and in the same reaction chamber concurrently reacting hydrogen so formed with a carbon oxide in the presence of a separate metal oxide containing catalyst capable of hydrogenating said carbon oxide.

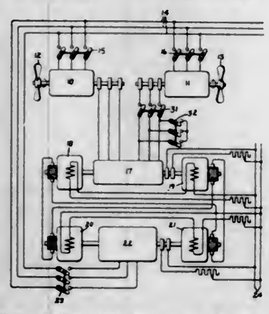
2,284,469

ALTERNATING CURRENT MOTOR DRIVE

Charles C. Clymer, Altamont, and Gabriel Kron and Charles Concordia, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York

Application September 20, 1941, Serial No. 411,608

5 Claims. (Cl. 172—274)



1. A motor drive system including two alternating current motors having primary windings connected in parallel to a common source of supply, and having wound secondary polyphase windings, a synchronous dynamo electric machine having an alternating current polyphase winding connected in series with the secondary windings of the induction machines, the different phases of the polyphase winding of the synchronous dynamo electric machine being separated, and means for varying the speed of said synchronous machine to similarly control the induction machines.

2,284,470

LABOR OR SIMILAR BED

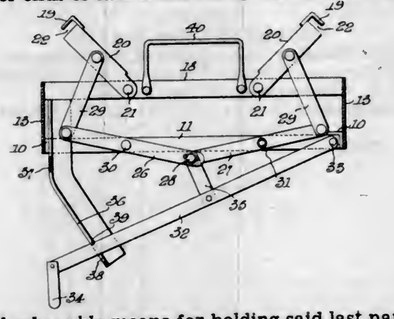
Adrian Comper, Pittsfield, Mass., and Rudolph A. Bartholomew, Atlanta, Ga., assignors, by mesne assignments, to The American Sterilizer Company, Erie, Pa., a corporation of Pennsylvania

Application March 20, 1941, Serial No. 384,420

4 Claims. (Cl. 5—60)

1. In a labor or similar bed, a rigid frame, mattress-supporting means mounted on said rigid frame and having two upwardly swingable longitudinal side frames, two levers below one end of said mattress-carrying means and fulcrumed between their ends on said rigid frame for movement in a vertical plane extending transversely of the bed, said levers having inner ends near the longitudinal center of the bed and outer ends under said side frames, links pivoted to said outer

ends of said levers and to said side frames for upwardly swinging the latter when said levers are operated, means pivotally connected with said inner ends of said levers for operating said levers,



and releasable means for holding said last named means in the position which it occupies when said side frames occupy their upwardly swung positions.

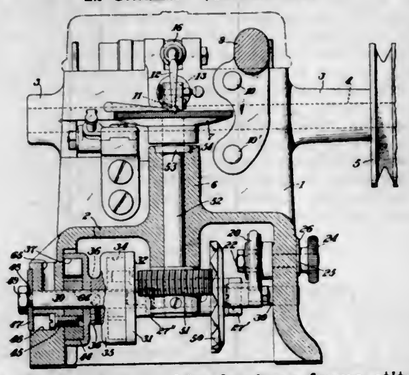
2,284,471

FEEDING MECHANISM FOR SEWING MACHINES

Hans Hacklander, Linden, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application November 19, 1940, Serial No. 366,224

12 Claims. (Cl. 112—18)



1. In a sewing machine having a frame, stitch-forming mechanism, and cooperating feed-cups exteriorly of said frame for sustaining and feeding fabric sections; a main-shaft; a feed-actuating shaft having a gear-wheel mounted thereon; a shaft carrying one of said feed-cups and a gear in mesh with said gear-wheel; a clutch-assembly located on one side of said gear-wheel for imparting operative movements to said feed-actuating shaft, said clutch-assembly comprising a unit including a work-advancing section and an adjacently positioned retainer section; and connections disposed on the other side of said gear-wheel and operated by said main-shaft for actuating said clutch-assembly, thereby to impart feed-advance movements to said feed-cup.

2,284,472

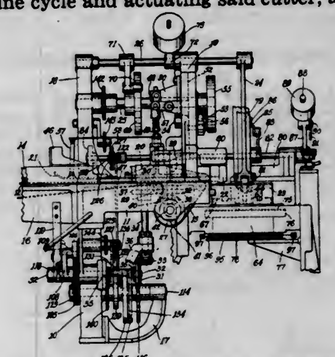
CIGAR MACHINE CROSS FEED

John F. Halstead, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey

Application July 22, 1939, Serial No. 285,887

7 Claims. (Cl. 131—21)

1. In a cigar machine filler feed, the combination with a member for intermittently advancing a stream of tobacco, of a cutter for separating bunch lengths from said stream of tobacco while said member is at rest, a continuously driven member, mechanism for driving said tobacco advancing member for a predetermined interval in each machine cycle and actuating said cutter, a clutch



normally operative to connect said mechanism to said continuously driven member to cause feeding of the filler stream and severance of bunch lengths therefrom, and means for disengaging said clutch from said mechanism prior to the beginning of said predetermined interval to stop said tobacco advancing member and the operation of said cutter for one machine cycle.

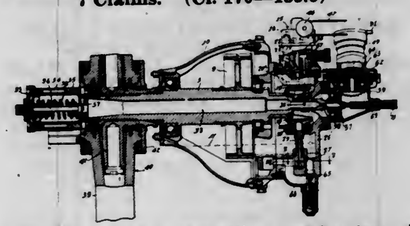
2,284,473

MULTIPLE MOTOR DRIVE FOR AIRCRAFT PROPELLERS

Albert S. Menasco, San Gabriel, and Hall L. Hibbard, North Hollywood, Calif., assignors, by mesne assignments, to Vega Aircraft Corporation, a corporation of California

Application May 27, 1938, Serial No. 210,392

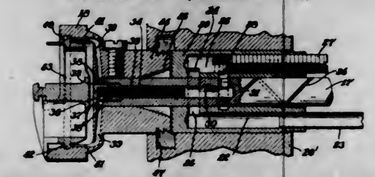
7 Claims. (Cl. 170—135.6)



1. In an aircraft propelling mechanism, the combination of a plurality of motor units, a propeller shaft, a propeller with variable pitch blades carried on the propeller shaft, a transmission drive including a one-way drive connection of the jamming roller type between each motor unit and the propeller shaft comprising a gear ring mounted on bearings to maintain said gear ring in concentric relation to the crankshaft of the motor unit, hydraulic controlling means including a governor for moving the blades to vary their pitch and thereby govern the propeller to a predetermined speed, a gear case for said transmission drive having an oil reservoir therein, said hydraulic controlling means having a pump with an intake for receiving oil from said reservoir, means for driving said pump from the propeller shaft, a duct leading from said pump to said governor, a return duct for returning liquid from said governor to said oil reservoir, said controlling means oper-

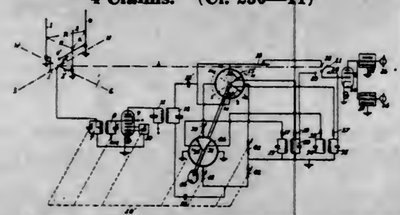
ating to vary the pitch of said propeller blades if one or more of said motor units becomes wholly or partly inactive, thereby enabling the remaining active motor unit or units, the propeller shaft, and the pump to maintain their previous speed of rotation.

2,284,474
LUBRICATED HOOK FOR SEWING MACHINES
Wilbur J. Peets and David A. Graesser, Elizabeth, and Leonard C. Marsac, Cranford, N. J., assignors to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application June 22, 1939, Serial No. 280,488
10 Claims. (Cl. 112—256)



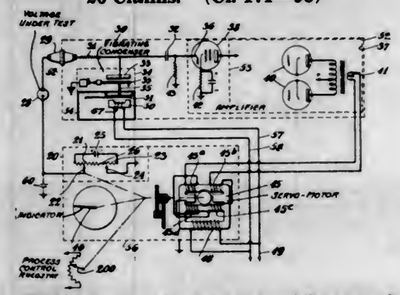
1. In a sewing machine, a hook-actuating shaft formed with a longitudinal bore, a bearing bushing in which said shaft is journaled, a conduit formed in said bushing and arranged parallel to and at one side of said shaft for conducting oil to the bearing surface of said shaft and a second conduit formed in said bushing and connected with said first conduit for conducting oil to the bore in said shaft, a rotary hook formed with a raceway and fixed to one end of said shaft, said hook being provided with an oil conducting passage for leading oil from the bore in said shaft to the raceway in said hook, an oil-reservoir located below said bushing, and means for supplying oil under pressure from said oil-reservoir to the first mentioned conduit in said bushing.

2,284,475
RADIO DIRECTION FINDING SYSTEM
Josef Plebanski, Warsaw, Poland
Application June 20, 1940, Serial No. 341,488
In Poland April 26, 1939
4 Claims. (Cl. 250—11)



1. A radio direction finding system comprising three antennae located at the corners of a triangle, a receiver, an output circuit and a plurality of transmitting channels, switching means for periodically connecting said antennae to the input of said receiver in rapid succession, further switching means operating synchronously with said first switching means for successively and periodically connecting said antennae to said output circuit through said receiver and an associate transmitting channel, phase modulation response and indicating means connected to said output circuit, phase shifting means arranged in at least two of said transmitting channels, and means comprising a common operating member for said phase shifting means for simultaneously differentially adjusting the time phases of the signals in the respective transmitting channels.

2,284,476
VOLTMETER APPARATUS
John R. MacKay, West Caldwell, N. J., assignor to Wallace & Tiernan Products, Inc., Belleville, N. J., a corporation of New Jersey
Application May 31, 1938, Serial No. 210,984
26 Claims. (Cl. 171—95)



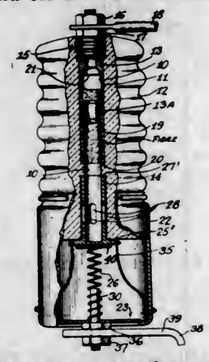
1. Voltmeter apparatus comprising an input circuit adapted to include a source of voltage to be tested and including adjustable potentiometer means for balancing the circuit, a condenser in said circuit and adapted to receive charging voltage therefrom upon unbalance thereof, amplifying means under control of said condenser, means controllable by a source of periodic current for effecting a corresponding periodic variation in the charge of said condenser when the input circuit is unbalanced, whereby the output of said amplifier produces a periodic electromotive force having a phase relation dependent upon the direction of unbalance of said input circuit, and means controllable by said source of periodic current and by said amplifying means for effecting balance-restoring adjustment of the potentiometer means in accordance with said phase relation.

2,284,477
PREPARATION OF PERACIDS
Joseph S. Reichert, Samuel A. McNeight, and Arthur A. Elston, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 5, 1940, Serial No. 317,318
10 Claims. (Cl. 260—502)

1. The process for preparing a member of the group consisting of peracids and their alkali metal salts which comprises reacting the anhydride of a carboxylic acid and an alkaline solution of a dilute inorganic peroxygen compound, said alkaline solution having a pH of at least 10.0 and a concentration not exceeding 3.0 volumes.

2,284,478
LIGHTNING ARRESTER, PLUNGER TYPE
Glenn B. Roloson, Crestone, Colo.
Application March 6, 1940, Serial No. 322,531
18 Claims. (Cl. 175—30)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

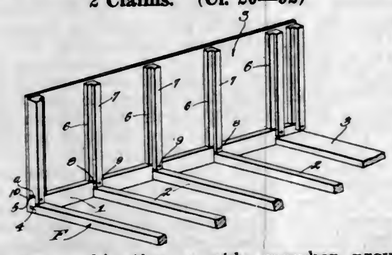
4. In a voltage limiting, current surge discharge device with follow-up current interrupter having a fixed electrode and a movable electrode, means providing a confined air-gap between said electrodes, yieldable means normally holding said movable electrode in predetermined spaced relation with respect to said fixed electrode, the improvements comprising means operative by an arc across said electrodes to evolve gas in sufficient quantity as to oppose the normal tendency of said yieldable means and move said movable electrode from its normal predetermined spaced relation with respect to said fixed electrode to lengthen said air-gap.



2,284,479
CATALYTIC HALOGENATION OF UNSATURATED ORGANIC COMPOUNDS
Frederick F. Rust and William E. Vaughan, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application September 30, 1939, Serial No. 297,365
16 Claims. (Cl. 260—654)

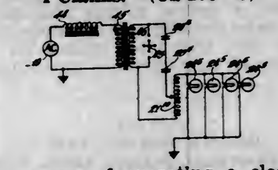
16. In a process of halogenating an unsaturated organic compound containing an olefinic linkage between two non-tertiary carbon atoms, the step of effecting a reaction between said organic compound and a halogen selected from the group consisting of chlorine, bromine and iodine, in the vapor phase and in the presence of an added compound selected from the class consisting of organic free radicals and organic peroxides, azo-compounds and metallo-hydrocarbon compounds yielding free radicals under the operating conditions.

2,284,480
FURNITURE
William H. Schuh, Aberdeen, Wash., assignor to Grays Harbor Chair & Mfg. Company, Hoquiam, Wash., a corporation of Washington
Application May 17, 1941, Serial No. 394,027
2 Claims. (Cl. 20—92)



1. In combination, a side member provided along an outer side face with a rabbet, a panel associated with said member, cross members carried by the inner face of the panel, said cross members terminating inwardly of a margin of the panel to provide an extended portion of the panel to be received within the rabbet of the member, each of said cross members being provided with a forward extension to overlie the inner face of the member, and means for securing the extension of each cross member to the first-named member, the extension of each of the cross members being of a length to terminate beyond the extended margin of the panel.

2,284,481
ELECTRIC LIGHTING METHOD AND APPARATUS
Heinrich E. Schwaneger, Collingswood, N. J., assignor to High Frequency Light Corporation, Dover, Del., a corporation of Delaware
Application October 21, 1939, Serial No. 300,538
4 Claims. (Cl. 176—8)



1. The process of operating a closed system illuminating lamp, which consists in passing alternating current through a reactance and an opposite reactance in series, in shunting the reactance by a closed system illuminating lamp, the said lamp shunt forming a load loop, and in rapidly making and breaking the circuit in the load loop containing the lamp.

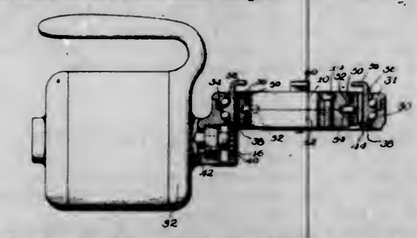
2,284,482
HALO-SUBSTITUTION OF MIXTURES CONTAINING SATURATED ORGANIC COMPOUNDS
William E. Vaughan and Frederick F. Rust, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application February 13, 1940, Serial No. 318,716
12 Claims. (Cl. 260—662)

12. In a process for the halogenation of saturated organic compounds of the group consisting of aliphatic hydrocarbons, cycloaliphatic hydrocarbons, and partially halogenated aliphatic and cycloaliphatic hydrocarbons containing at least one hydrogen atom linked to a carbon atom which are contaminated by free oxygen, the step of reacting the oxygen-contaminated saturated organic compound in a vapor state with a halogen selected from the group consisting of chlorine, bromine and iodine, in the deliberate presence of an unsaturated organic compound selected from the group consisting of aliphatic and alicyclic olefins and of their products of halo-substitution, said reaction being effected at an elevated temperature above that normally employed in reactions involving halogen addition into olefins.

2,284,483
DRESSING TOOL
John C. Whitesell, Jr., Norristown, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application May 26, 1938, Serial No. 210,110
13 Claims. (Cl. 90—12)

1. In a tool for shaping welding electrode tips,

a pair of discs arranged back to back, and each having a bore therein of a conical frustum shape corresponding to a desired electrode tip shape, and elemental spaced grooves along the bore forming elemental cutting edges lying in the locus of said conical frustum shape.



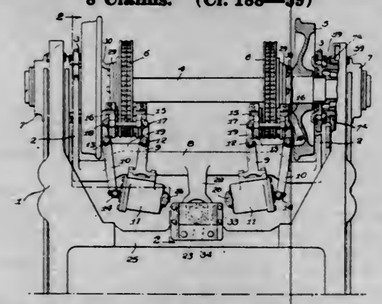
5. In a tool for shaping welding electrode tips, a disc having a conical cutting bore for cutting a suitable shape electrode tip, a universal mounting for the disc, and power means for rotating the disc through said universal mounting.

2,284,484

BRAKE MECHANISM

Carolus L. Eksergian, Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania

Application July 18, 1940, Serial No. 346,076
8 Claims. (Cl. 188—59)



1. In a wheel truck having a journal box, an axle carried thereby, brake mechanism comprising a brake ring rotating with the axle, and a brake shoe cooperating therewith, means for actuating said brake shoe, a yoke supporting said means, means comprising two curved rubber sandwiches located one above and one below the journal box for supporting said yoke on said journal box for oscillation about an axis substantially in alinement with the axis of the brake ring, said sandwiches being of limited circumferential extent so as to leave the sides of the journal box for the most part free thereof, and yieldable means supporting said yoke at a point remote from said axis.

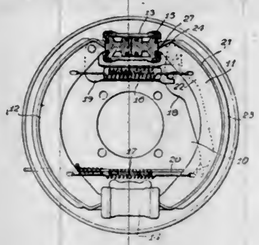
2,284,485

BRAKE SHOE

Warren H. Farr, Carolus L. Eksergian, and Karl C. Harle, Detroit, Mich., assignors to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania

Application August 3, 1940, Serial No. 350,880
4 Claims. (Cl. 188—250)

1. An arcuate brake shoe fabricated of sheet metal and having a transverse flange and a radial web secured thereto in its medial plane, the ends of said web being of reduced radial dimension, said ends being laterally braced by extensions of said flange, the end faces formed by



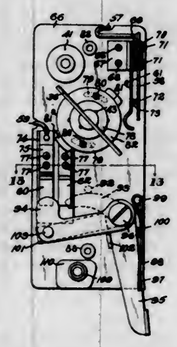
said web and flange extensions being generally of cross-shape.

2,284,486

FOCAL PLANE CAMERA SHUTTER AND FLASH SYNCHRONIZER

Edson S. Hineline, Rochester, N. Y., assignor to The Folmer Graflex Corporation, Rochester, N. Y., a corporation of Delaware

Application May 6, 1939, Serial No. 272,169
14 Claims. (Cl. 67—29)



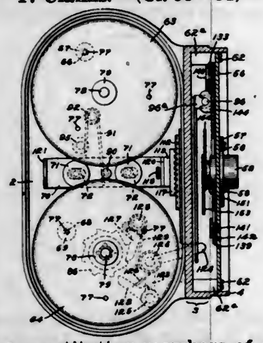
1. Means for effecting synchronization of the flash of a photo-flash lamp with the shutter action of a photographic camera, including a camera having a photo-flash lamp attached thereto, an electric circuit applied to said camera, which circuit includes said lamp, an apertured shutter curtain mounted in said camera for operation therein, rotatable means for winding said curtain and oppositely rotatable during exposure, means carried by the camera and movable for completing and breaking said circuit, thereby to cause the flashing of said lamp by completing the circuit, means to release said shutter curtain to make, during curtain passage, an exposure at an aperture thereof, said means for completing and breaking the electric circuit including a cam mounted upon the camera and operatively connected to the curtain winding means and rotatable therewith, and by its rotation completing said circuit; and means permitting manual adjustment of said cam in a direction to vary the exact instant for completing the circuit, and thereby flashing the lamp with relation to the instant of the exposure-passage of the said aperture of the curtain, so as to effect synchronization of the flashing of the lamp and the exposure-passage of the selected curtain aperture.

2,284,487

PHOTOGRAPHIC FILM MAGAZINE AND FEEDING MEANS, PARTICULARLY FOR PHOTORECORDING CAMERAS

Edson S. Hineline, Rochester, N. Y., assignor to The Folmer Graflex Corporation, Rochester, N. Y., a corporation of Delaware

Original application April 10, 1940, Serial No. 328,868. Divided and this application May 8, 1941, Serial No. 392,464
17 Claims. (Cl. 95—34)



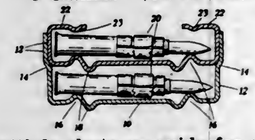
1. In and constituting members of a complete photo-recording camera, readily carried and manually manipulated by the operator for photographing records and the like, about which the protruding rim of the camera casing encircling the lens and shutter may be placed to make the exposure, and which complete camera includes a flat camera casing body of approximately elliptical disk-like form to receive flatwise the cylindrical take-off magazine, and the cylindrical take-up magazine for the film, and a casing cover overlying said magazine; a mechanism housing constituting an integral part of the said casing body and itself having a bottom wall from which the said encircling rim projects so as to provide a free edge to be placed about the object to be photographed, a plate secured with said rim in parallelism with said bottom wall and spaced therefrom, and which plate is adapted to carry a lens and shutter, and manually-operable film-supporting and manipulating means including film feeding means between the said bottom wall and said plate, and also including a film feeding member movable to and fro within said mechanism-housing, and adapted to receive means accessible to the operator and connected with said film-feeding member for operating the latter, film-winding means for winding exposed film within said film take-up magazine roll, and operating connections between said film-feeding member and said film-winding means.

2,284,488

MOLDED CHUTE OR GUIDE FOR MACHINE GUN CARTRIDGE BELTS

Francis Carl Johnson, Surbiton, England, assignor to The Hadley Company Limited, Surbiton, England, a British company

Application August 1, 1940, Serial No. 349,153
In Great Britain December 15, 1938
9 Claims. (Cl. 89—34)



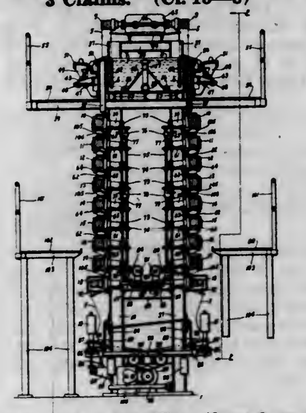
1. A multiple chute or guide for machine-gun cartridge belts built up from components consisting of flanged strips of "plastic" material, preferably cellulose acetate, so constructed that they can be nested together to provide two or more channels each capable of receiving and guiding a single belt of cartridges.

2,284,489

APPARATUS FOR THE MANUFACTURE OF THREAD OR THE LIKE

Hayden B. Kline, Lakewood, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware

Application May 3, 1938, Serial No. 205,864
3 Claims. (Cl. 18—8)



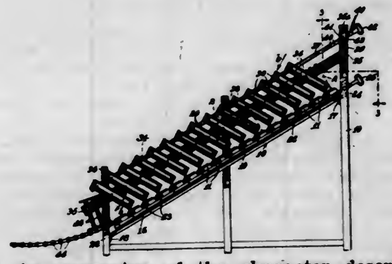
1. Apparatus for handling thread or the like comprising a source of thread or the like; a concatenate series of thread-advancing reels of cantilever construction arranged to face in the same general direction each of which operates to advance the thread or the like toward the unsupported end thereof in a plurality of substantially helical turns, said reels being individually inclined from the horizontal in such manner that the thread-discharge end of each is higher than the thread-receiving end thereof but nevertheless superposed in such manner that their vertical projections coincide; guide means between adjacent reels; and, in proximity thereto, collecting means to which thread or the like from said source proceeds after traversing said series of reels.

2,284,490

GRAVITY CONVEYER

William J. Lueckel, New York, N. Y., assignor to Dunning Lueckel Engineering Company, New York, N. Y., a co-partnership composed of Harry Dunning and William J. Lueckel

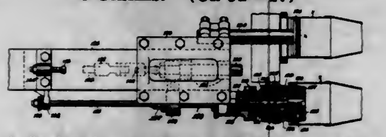
Application August 3, 1940, Serial No. 350,869
16 Claims. (Cl. 193—35)



1. An apparatus of the character described

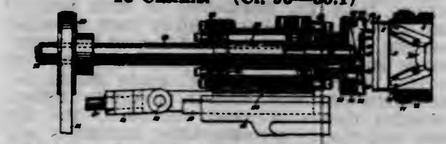
comprising inclined conveying means including roller portions in angularly related planes engageable with the bottom and a side of the article to be conveyed, the rollers of each portion being angularly displaced from the normal to the direction of travel and having their outer ends diverging and forwardly directed to exert, upon the rotation of said rollers, a pressure on the article urging the latter in the direction of the other roller portion, and vice versa.

2,284,491
ADHESIVE APPLICATOR FOR CYLINDRICAL CONTAINER INTERIORS
Irving F. Mandell, New Rochelle, N. Y., assignor to Reinforced Paper Bottle Corporation, New York, N. Y., a corporation of Delaware
Application February 9, 1939, Serial No. 255,469
8 Claims. (Cl. 91—47)



1. A device for applying adhesive to the inner surface of a cylindrical paper container, comprising a head having two spaced relatively movable flanges, an elastic band therebetween having a projecting adhesive applying roll, whereby said flanges may be moved so as to longitudinally contract the band thereby increasing the diameter of said roll.

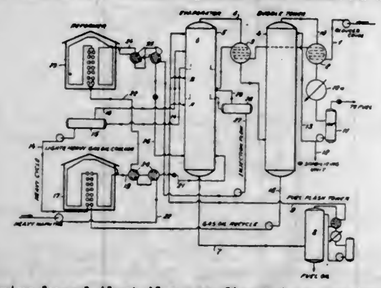
2,284,492
AUTOMATIC DUPLEX MECHANISM FOR SPINNING CONTAINER CLOSURES
Irving F. Mandell, New Rochelle, N. Y., assignor to Reinforced Paper Bottle Corporation, New York, N. Y., a corporation of Delaware
Application March 13, 1939, Serial No. 261,578
15 Claims. (Cl. 93—55.1)



1. A machine for clinching closures in containers, comprising a spinner head having an annular groove of curved cross section, cam actuated means to slide said head linearly, means to rotate said head, a plurality of integral spinner formers movably mounted therein, and means to move said formers in timed relation with the sliding movement of said head.

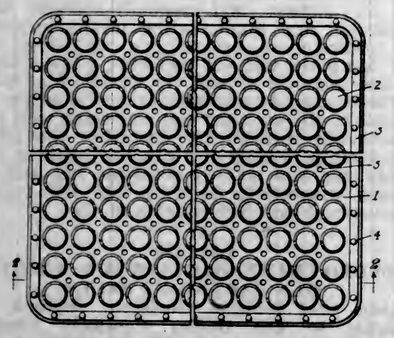
2,284,493
COMBINATION CRACKING OPERATION
Henry D. Noll, Wenonah, N. J., and Otis L. Branson, Beaumont, Tex., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application September 9, 1939, Serial No. 294,110
1 Claim. (Cl. 196—58)

In a petroleum conversion process wherein a reduced crude is passed to an evaporator tower, an overhead vapor from said tower is passed to a bubble tower, light gas oil from said bubble tower and heavy gas oil from said evaporator tower are sent through separate heated coils under selective cracking conditions therefor and the cracked oils therefrom are passed to said evaporator tower, and wherein preheated naphtha is passed through a heated reforming coil under reforming conditions to effect substantial reforming thereof, the improvement which comprises passing a reduced crude withdrawn from said evaporator tower through an external unfired soaking zone to preheat same to a predetermined temperature, introducing such preheated reduced crude into substantially reformed naphtha withdrawn from said heated reforming coil and regulating the predetermined temperature and amount of the preheated reduced crude



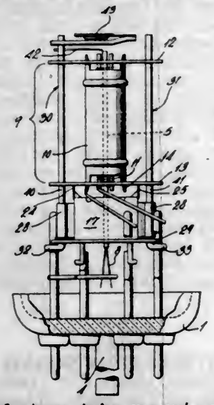
so introduced that the resultant temperature of the mixture is at an efficient viscosity-breaking temperature for the reduced crude, passing the mixture through said unfired soaking zone under viscosity-breaking conditions, in indirect heat exchange with said reduced crude passing therethrough alone, to effect a substantial viscosity-breaking of the reduced crude which is mixed with said naphtha, and then passing the mixture from said soaking zone to said evaporator tower for separation into vaporous and liquid products.

2,284,494
RUBBER MAT
Laurence M. Oakley, Trenton, N. J., assignor to Essex Rubber Company, Trenton, N. J., a corporation of New Jersey
Application January 31, 1941, Serial No. 376,813
3 Claims. (Cl. 4—185)



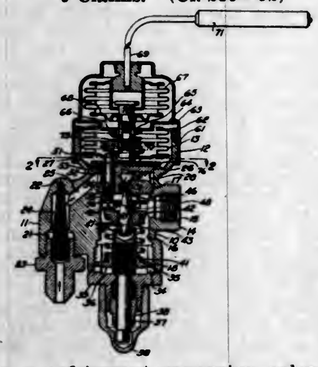
1. A reversible rubber mat comprising, a medial web, spaced supporting elements of solid rubber in the form of short truncated cones projecting upwardly and downwardly from said web, a rim around the marginal edges of said web, said rim being thicker than the web, but of less thickness than that of a pair of said supporting elements, and spaced lugs projecting upwardly and downwardly from said rim, the supporting surfaces of said lugs lying substantially in the same plane as the supporting surfaces of said supporting elements.

2,284,495
ELECTRON TUBE MOUNT OF THE SHIELDED ELEMENT TYPE
George L. Risheil, Emporium, Pa., assignor to Hygrade Sylvania Corporation, Emporium, Pa., a corporation of Massachusetts
Application April 10, 1941, Serial No. 387,839
13 Claims. (Cl. 250—27.5)



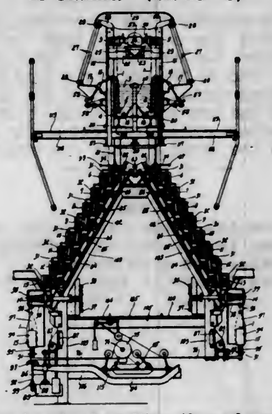
1. In an electron tube mount, a pair of uprights, a plurality of electrode sections in superposed relation, a box-like shield for one of said sections rigidly fastened to said uprights, said shield having a plurality of integral vertically extending struck out tabs extending therefrom and in engagement with the adjacent end of the superposed section, and upon which the weight of said superposed section is carried.

2,284,496
REFRIGERATION EXPANSION VALVE
George W. Smith and James A. Smith, Lyons, N. Y., assignors to Kenmore Machine Products, Inc., Lyons, N. Y.
Application January 24, 1940, Serial No. 315,450
9 Claims. (Cl. 236—92)



1. In a refrigerant expansion valve, a valve body formed with a valve-receiving portion, a cylindrical flange contiguous therewith and having a chamber formed therein, and an offset inlet passage portion, said valve-receiving portion being formed with a longitudinal bore communicating with said chamber, a valve disposed in the bore, spring means for actuating the valve, and closure means for closing the end of the bore and holding said spring and valve in operating position, a discharge port formed in the valve body in communication with said bore, a separate insert disposed at the opposite end of the bore to divide the bore from said chamber, a sealing bellows secured within said chamber, a plurality of longitudinally disposed apertures formed in said insert, push pin members freely extending through said apertures and connecting said sealing bellows and said valve, a valve seat formed in said insert against which the valve may contact, a diagonal passage formed in the body and connecting said inlet passage portion and said bore at a portion thereof covered by said insert, said diagonal passage, as projected, extending beyond the end of said cylindrical flange, and a tortuous passage extending around said insert for connecting said diagonal passage and said valve seat.

2,284,497
APPARATUS FOR THE MANUFACTURE OF THREAD OR THE LIKE
George P. Torrence, Shaker Heights, Richard F. Bergmann, Lakewood, and Walter F. Knebusch, Rocky River, Ohio, assignors to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware
Application May 26, 1939, Serial No. 275,919
15 Claims. (Cl. 18—8)

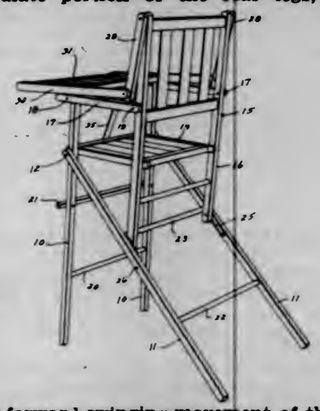


1. Apparatus for handling thread comprising a panel; a plurality of adjacent series of rotatable thread-advancing thread-store devices mounted on said panel; a rotatable driving member mounted on said panel; means mounted on said panel for rotating said thread-advancing thread-store devices in said series from said rotatable member; a frame structure on which said panel is mounted; rotatable means mounted on said frame structure adapted to be connected to and drive said rotatable driving member mounted on said panel; and means adjustably mounting said panel on said frame structure whereby said rotatable driving member on said panel may be disposed in driving relation with said rotatable driving means on said frame structure.

2,284,498
FOLDING HIGH CHAIR
Henry Temple Tucker, Fort Smith, Ark., assignor to Tucker Duck & Rubber Co., Fort Smith, Ark., a corporation of Arkansas
Application January 9, 1941, Serial No. 373,820
5 Claims. (Cl. 155—127)

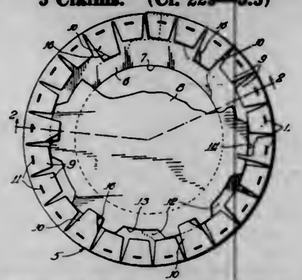
2. A folding high chair comprising a pair of front legs, a pair of rear legs pivoted at their

upper ends to the front legs, a back rest, a seat having pivotal connection with the front legs on the pivotal axis of the rear legs and having pivotal connection with the back rest, arm rests having pivotal connections with the front legs and the back rest, links pivotally connecting the lower end of the back rest to the intermediate portion of the rear legs, means



limiting forward swinging movement of the links for disposing the seat and back rest in relative positions for use, keeper links pivoted on the upper end of the back rest and engageable with the arm rests forwardly of the pivotal connection of the arm rests with the back rest, and a tray having rearwardly extending side arms pivoted to the lower ends of the keeper links.

2,284,499
CONTAINER
Raymond H. Van Saun, Chicago, Ill., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application October 21, 1940, Serial No. 361,996
5 Claims. (Cl. 229—5.5)

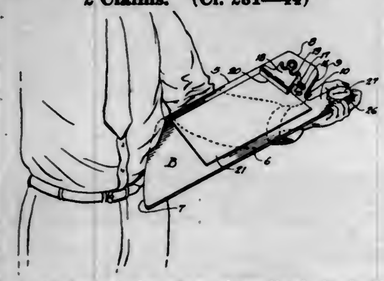


3. A drum construction comprising a cylindrical body member, a disc adapted to close an end of the body member, said disc being formed with a central opening, a plurality of spaced, flexible tabs carried by the end of the body member and adapted to be folded over and secured against the outside surface of the end disc, and a supplemental closure disc adapted to close the opening in the end disc, said supplemental disc having spaced, cut-away portions formed in the edge thereof corresponding in radial position to the tabs and being of a size greater than the widths of such tabs, whereby the supplemental disc can be placed upon the end disc by registering the cut-away portions with the tabs and can then be secured in place by rotating the supplemental disc to bring the edge portion of the disc in underlying relation to said tabs.

2,284,500
HYDROLYSIS OF CELLULOSIC MATERIALS
Carl Warth, Lowenberg, Germany, assignor to Chemische Fabrik Lowenberg Dr. Warth & Company, Lowenberg, Silesia, Germany
No Drawing. Application March 20, 1939, Serial No. 263,098. In Germany March 21, 1938
11 Claims. (Cl. 127—37)

10. A process for the saccharification of cellulose-containing substances that comprises soaking said substance with water and a reagent from the group consisting of chlorine, sulfur dioxide and mixtures thereof to cause substantially complete penetration of said substance with said agent but substantially no hydrolysis, forming an emulsion with a benzene hydrocarbon and a hydrogen halide, adding to this emulsion a wetting agent, introducing into said emulsion the pretreated cellulosic substance, hydrolyzing the suspended substance by means of a hydrogen halide, separating said emulsion to its component phases, segregating the hydrolyzed product from the residue of the raw material by means of a washing solution and purifying the resultant sugar solution.

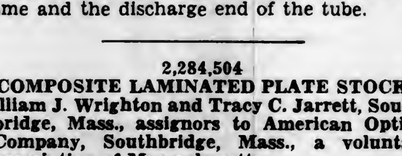
2,284,501
TIME STUDY BOARD
Herman P. Welch, Union City, Ind., assignor to Rockwell-Barnes Company, Chicago, Ill., a corporation of Illinois
Application September 13, 1941, Serial No. 410,789
2 Claims. (Cl. 281—44)



2. A device of the class described, including a board of substantially oblong form having a slightly rounded lower oblique end edge adapted to fit against the body of a person, said board being provided at its upper end adjacent the right hand side thereof with an inwardly tapered recess forming, at the upper right hand corner of the board, a projecting handle having a straight outer edge and provided with an inner edge conforming substantially to the configuration of the thumb when the handle is grasped with the left hand, whereby the board may be held firmly against the body by said hand with the thumb and fingers at the opposite edges of the handle and the board supported by the forearm in convenient writing position, and a paper holding clip carried by the upper portion of the board at the left-hand side thereof and arranged to hold a plurality of leaves upon the board.

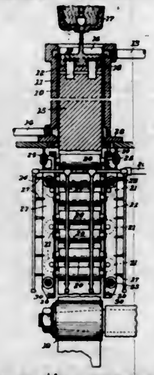
2,284,502
VISOR SUPPORT
Frederick J. Westrope, Pleasant Ridge, Mich., assignor, by mesne assignments, to Reconstruction Finance Corporation, Detroit, Mich., a corporation of the United States
Application April 26, 1941, Serial No. 390,579
6 Claims. (Cl. 248—289)

5. In a visor-supporting structure, a base member having an aperture, a holding member inserted in said aperture and having a conical bore, said base member and said holding member having interengaging means therebetween



for preventing relative rotation thereof, means for securing said members in assembly, and a visor supporting element with a conical portion engaging said conical bore.

2,284,503
APPARATUS FOR CONTINUOUS CASTING
Edward R. Williams, Latrobe, Pa., assignor, by mesne assignments, to himself and Julia Lee Cox Williams, Latrobe, Pa.
Application September 14, 1939, Serial No. 294,889
6 Claims. (Cl. 22—200.1)



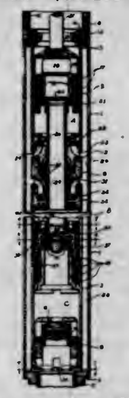
1. Continuous casting apparatus comprising a vertical casting tube from the lower end of which the formed casting is drawn, means supported immediately below the discharge end of the casting tube for exerting a confining and rolling pressure against the walls of the casting while they are still in a deformable state, said means comprising a supporting frame having a yieldably mounted vertical series of closely spaced horizontal rollers therein arranged to engage opposite faces of the casting, and means providing a self-alining transverse adjustment between said frame and the discharge end of the tube.

2,284,504
COMPOSITE LAMINATED PLATE STOCK
William J. Wrighton and Tracy C. Jarrett, Southbridge, Mass., assignors to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application May 5, 1939, Serial No. 271,970
4 Claims. (Cl. 29—181)



1. A composite laminated plate of given dimensions having a sheet metal core of an alloy consisting essentially of copper and nickel bonded to sheets of solder and gold on at least one side thereof, said sheets being of substantially uniform thickness joined throughout their interfaces with substantially uniformly constant holding strength at each point thereof, as the result of the application of substantially uniform heat and pressure during said joining by the layer of solder material of substantially uniform thickness throughout its area, said plate being adapted to be processed so as to alter the said dimensions thereof and to have substantially constant resistance to said processing throughout said layers.

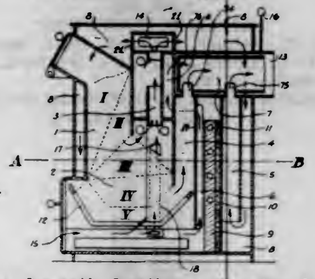
2,284,505
TRIPLE ACTING PUMP
William H. Zehner, Ashland, Ohio, assignor to The F. E. Myers & Bro. Co., Ashland, Ohio, a corporation of Ohio
Application August 11, 1939, Serial No. 289,650
7 Claims. (Cl. 103—4)



1. In a pump, an upper cylinder, an upper plunger adapted to reciprocate therein, the space contained in the upper cylinder immediately above the upper plunger constituting a delivery space, a lower cylinder, a lower plunger adapted to reciprocate therein, hollow means connecting said plungers so that they reciprocate together, means for moving the plungers as a solid sucker rod movable within said delivery space, means intermediate of said cylinders provided with ports adapted to connect the space below said upper plunger with a source of liquid to be pumped, an outlet for liquid from the space below the upper piston, valve means allowing liquid to pass through said ports into said space below said upper plunger but preventing the reverse flow of liquid, said intermediate means being also provided with passageways adapted to connect the space above said lower plunger with a source of liquid to be pumped, valve means associated with said last-named passageways adapted to allow liquid to pass through said passageways into the space above said lower plunger but to prevent the reverse flow of liquid, and valve means carried by said lower plunger and adapted to allow liquid to pass from the space above said lower plunger into said hollow connecting means but to prevent the reverse flow of liquid, said plungers and valve means being so arranged that when the double plunger unit is moved downwardly the fluid in the space directly below the upper plunger and contained between the cylinder and said hollow means, also the fluid in the space directly below the lower plunger are both forced upwardly into the delivery space above the upper plunger from which fluid under pressure is discharged by the pump, and on the upward
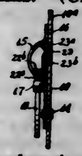
movement of the plunger unit the fluid directly above the lower plunger and contained between said cylinder and said hollow means is forced upwardly into said delivery space.

2,284,506
DOMESTIC HEATING APPARATUS FIREBOX WITH TWO COMBUSTION FLUES
Alexandre Zuberbuhler, Lausanne, Switzerland
Application December 30, 1938, Serial No. 248,724
In Switzerland December 31, 1937
4 Claims. (Cl. 110—147)



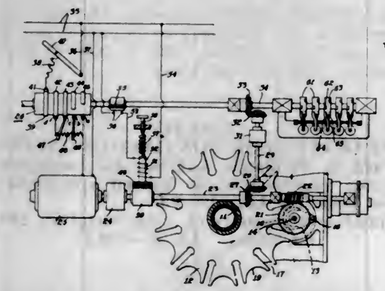
1. In a domestic heating apparatus for solid fuel having a lower fire chamber fed with primary cold air for the combustion of the solid parts of the fuel, an upper flame chamber fed with secondary heated air for the combustion of the gaseous parts of the fuel and an ash pit, a direct flue connecting the fire chamber to the chimney and an indirect flue connecting the flame chamber to the chimney, a third flue connecting the ash-pit to the chimney and forming around said fire and flame chambers an air space for a current of draft air entering into the chimney without taking any part in the combustion proper, means to heat the draft air in said air space, and a common register controlling the passage of the exhaust gases and of said draft air, respectively, from said three flues to the chimney.

2,284,507
SELF-ATTACHED SPRING FOR KEY HOLDING HOOKS
Harry P. Behrman, St. Albans, and Morris Behrman, Brooklyn, N. Y.
Application January 29, 1941, Serial No. 376,414
8 Claims. (Cl. 70—456)



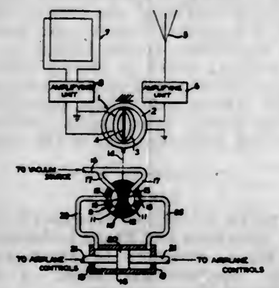
1. A self-attached spring for key holding hooks comprising a plate adapted to be attached upon a foldable cover and having a plurality of vertical and horizontally spaced semi-circular loop portions with small cutouts at the sides, at the top portions thereof, and also having finger portions extending between said loop portions with the tops thereof obstructing said small cutouts, and a key holding hook with a headed stud extended between an adjacent pair of said loop portions and the sides of its head riding behind the edges of said pair of loop portions, whereby said key holding hook may freely depend from said pair of loop portions or may be moved upwards to any portion or moved to the top of the loops and flex one of said finger portions rearwards and then be movable out from said cutouts, and means for locking said finger portions in their operative obstructive positions.

2,284,508
GLASS-FORMING MACHINE
Samuel D. Bert, Washington, Pa., assignor of one-third to Maurice A. Yorkin and one-third to James D. Martin, Washington, Pa.
Application June 5, 1940, Serial No. 338,910
9 Claims. (Cl. 49—10)



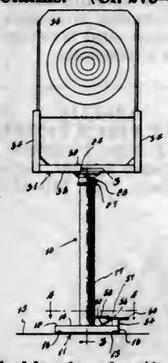
9. Glass-forming apparatus comprising a rotatable mold carrier, means intermittently operable in timed relation to movement of the carrier, for performing glass-shaping operations in the molds, a constantly-moving driving element, a Geneva drive driven by said element, for imparting intermittent rotative movement to the carrier, means for so timing the glass-shaping operations that they occur during pauses in carrier movement, and means operating in timed relation to the first-named means, for moving the driving element at a faster rate in the interval between said pauses than during the shaping operations.

2,284,509
TORQUE AMPLIFIER
Walter W. Boes and John Roy McGuire, Dayton, Ohio
Application December 14, 1940, Serial No. 370,178
12 Claims. (Cl. 250—2)



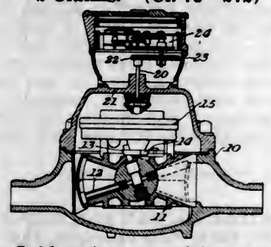
1. In combination, a torque amplifier for indicating instruments comprising a movable element contained in a valve housing and adapted to control the movement of fluid energy as the element is moved, a source of mechanical energy to be indicated being connected directly to said element, said element being adapted to be mechanically connected to the movable member of an indicating instrument and the changes in said fluid energy being adapted to exercise control effects.

2,284,510
TARGET STAND
Carl W. Cates, Kansas City, Mo.
Application May 28, 1941, Serial No. 395,658
5 Claims. (Cl. 273—102)



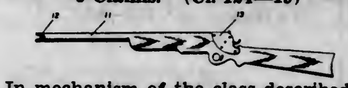
1. A target holder for shooting galleries, comprising a battery of target stands arranged in a straight row, each of said target stands including an upright tubular standard, a shaft journaled in the standard and projecting from the upper end thereof, a target holding frame attached to the upper end of each standard, and manually operated means connecting the shafts of each standard and actuated by a common operator element for turning said shafts simultaneously for swinging the target holding frames from positions in alinement with one another and with the front of the battery of target stands to positions crosswise thereof, bearing means for journaling each of said shafts in the standards, adjacent the ends of said shafts, said bearing means including a bearing for the upper end of each shaft, said bearing including a cup shaped support mounted in the upper end of the standard and through which the shaft of said standard extends, said cup shaped support being provided with a flanged upper end resting on the upper end of the standard, and a cap mounted on the upper end of said standard for retaining said upper bearing in position therein.

2,284,511
METER SEAL
Horace Chrisman, Edgewood, Pa., assignor to Pittsburgh Equitable Meter Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application August 23, 1939, Serial No. 291,557
2 Claims. (Cl. 73—272)



1. In a fluid meter comprising a meter casing containing a metering element and a reduction gear train driven thereby, a register case divided by a wall from said meter casing and a register driving spindle driven by said gear train passing through said dividing wall the improvement wherein said dividing wall has a sealing surface, a sealing washer surrounding said spindle and engaging said sealing surface, means driven from said gear train backing said washer, spring means between said gear train and backing means for urging said washer into engagement with said sealing surface, and a cup carried by said spindle having a flange extending above and surrounding said washer for containing lubricant.

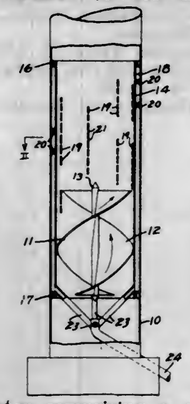
2,284,512
TOY GUN
Jacob P. Claytor and Riley J. Patterson, Muskegon, Mich.
Application February 20, 1941, Serial No. 379,750
5 Claims. (Cl. 124—19)



1. In mechanism of the class described, a pivotally mounted latch provided with a slot and a rotatably mounted pawl in register with said slot, said latch provided with spaced catch portions, one of said catch portions being formed by one edge of said slot and a second catch portion formed by the surface of said latch adjacent the opposing edge of said slot whereby the pawl alternately engages said catch portions.

5. An elastic band propelling attachment for a toy gun comprising propelling mechanism contained between a pair of sideplates, a wooden stock simulating a firearm in appearance and provided with a notch to receive the elastic band propelling attachment and means for securing the attachment to the stock, the propelling mechanism being wholly contained within the sideplates along the edge of the attachment which is affixed to the notched portion of the stock.

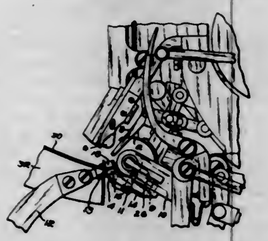
2,284,513
ASH ARRESTER
Richard W. Coward, Birmingham, Ala.
Application September 30, 1939, Serial No. 297,300
4 Claims. (Cl. 183—102)



4. A separator comprising a casing through which gases bearing solids pass, a multiple flight helicoid disposed within the casing to impart a helical movement to the gases, walls defining an annular chamber fitting snugly about the helicoid and extending therebeyond in the direction of gas flow a distance greater than the length of the helicoid, the wall of the chamber near the downstream end of the helicoid and beyond the helicoid being provided with a plurality of axially

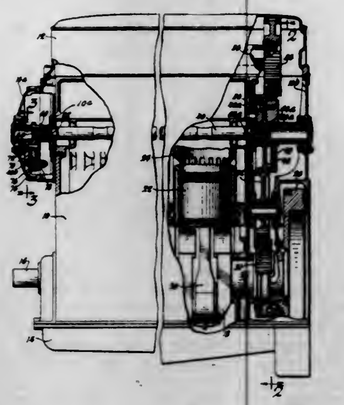
extending rows of relatively short slits disposed in helical series in the projected path of the gases, the said wall being uninterrupted and smooth except for said slits, that portion of said wall surrounding the helicoid being imperforate, vanes on the sides of the slits extending inwardly of the chamber tangentially of the inner wall from the upstream to the downstream sides of the slits, and means to discharge trapped solids from the annular chamber.

2,284,514
SEWING MACHINE
Joseph A. Cordeau, Portland, Maine
Application December 13, 1940, Serial No. 370,014
5 Claims. (Cl. 112—62)



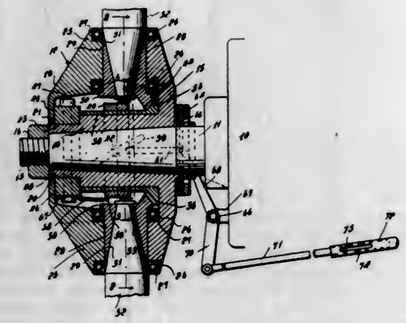
1. A stitching machine for forming and trimming a moccasin seam, comprising a work support having faces converging toward a common apex, an awl and needle operating across the angle formed by said converging faces upon work positioned by the converging faces of the work support, and a trimming knife crossing said angle and located nearer to the said apex than the path of the needle.

2,284,515
VIBRATION SUPPRESSING MEANS
Carmer Criswell, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application April 12, 1937, Serial No. 136,392. Divided and this application May 31, 1940, Serial No. 337,980
2 Claims. (Cl. 74—604)



1. In an engine having a crankshaft subject to forces producing a rocking couple, means for counteracting said forces, said means comprising a counterweighted shaft having a tubular extension keyed thereto, a counterweight carried by said extension, a housing attached to the engine frame, said housing enclosing said counterweight and extension, and bearings in said housing engaging said extension.

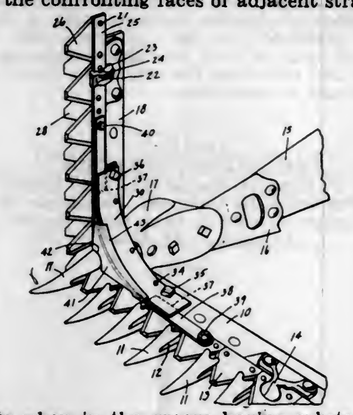
2,284,516
VARIABLE PITCH PROPELLER
William J. Fike, Pavillion, Wyo.
Application February 6, 1941, Serial No. 377,756
5 Claims. (Cl. 170—163)



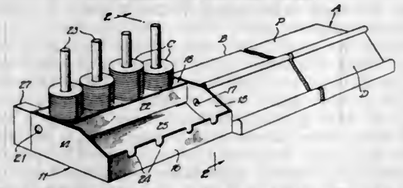
1. A variable pitch propeller for aeroplanes comprising a hollow hub member keyed to a crankshaft, propeller blades, said hub member having sockets for receiving and journaling the adjacent ends of said propeller blades, said hub member having a hollow portion, weights having arms pivotally connected to the hub and disposed therein and arranged to be swung outwardly by centrifugal force, a collar mounted to slide longitudinally of the hub and having portions for engaging said arms and to be actuated by the outward movement of the weights, a ring rotatably mounted in the hub, means for connecting said ring and collar whereby the sliding movement of the collar will cause said ring to be turned, said ring being provided with circumferentially spaced gear segments, said propeller blades being provided with gear segments for meshing with the gear segments of the ring whereby the propeller blades will be turned on their longitudinal axes relatively to the hub by the turning movement of the ring for varying the pitch of the propeller blades, rods slidably mounted in the inner end of said hub, said rods having corresponding ends connected to said collar and opposite ends projecting from the hub, a thrust collar secured to the last mentioned ends of said rods, and manually operable means for engaging and moving the thrust collar in one direction for turning said ring in one direction.

2,284,517
DIVIDER SICKLE AND DRIVE
John Fink, New Palestine, Ind.
Application September 12, 1940, Serial No. 356,473
9 Claims. (Cl. 74—501)

1. In combination an arcuately grooved guide structure, and a reciprocating flexible strap structure slidable in the guide groove and including a plurality of elongated strap elements of dissimilar length having their ends secured together, the difference in length being such that the confronting faces of adjacent strap elements when in the groove having substantially continuous contact.

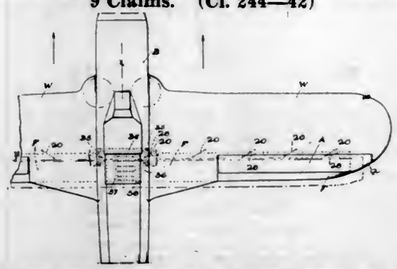


2,284,518
CHIP RACK
Gould Green, New York, N. Y.
Application February 24, 1941, Serial No. 380,112
6 Claims. (Cl. 273—148)



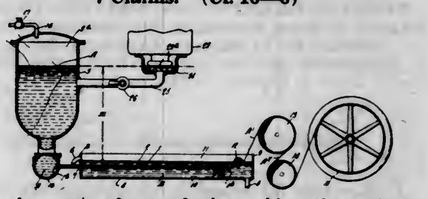
1. A chip rack comprising a rectangular shaped casing open at its top, a chip support pivotally mounted off center within said casing at the rear thereof, an upwardly curved leaf spring of a length substantially equal to the length of the inside of said casing and having its front portion secured at the front of said casing, the free rear edge of the spring bearing against the front underside of said chip support to hold the same in vertical set up position, said chip support being swingable forwardly to an upset horizontal position past dead center to cause said spring to hold the chip support in its upset position.

2,284,519
AIRPLANE
Randolph F. Hall, Rochester, N. Y., assignor to Bell Aircraft Corporation, Buffalo, N. Y.
Application September 14, 1939, Serial No. 294,965
9 Claims. (Cl. 244—42)



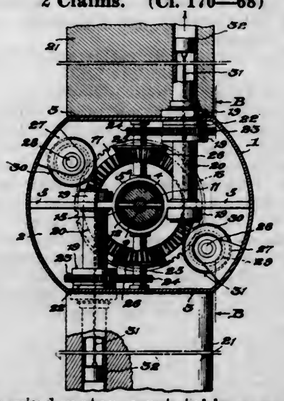
1. In combination, an aircraft wing, a flap forming a trailing portion of said wing, said flap being adapted to be swung downwardly from normal raised position to lowered positions angularly displaced relative to the wing, a series of flap support members located at spaced intervals on the wing along the span of the flap, said members being universally coupled at their forward ends to the wing and being pivotally connected to the flap at their rear ends about vertically disposed axes, whereby said flap is movable downwardly with said members to positions angularly displaced relative to the wing and is bodily movable in a spanwise direction by lateral swinging of said arms.

2,284,520
PROCESS AND APPARATUS FOR PRODUCING RUBBER ARTICLES
Thomas F. Hassett, Philadelphia, Pa.
Application June 12, 1940, Serial No. 340,218
7 Claims. (Cl. 18—8)



4. Apparatus for producing rubber elements including filaments, sheets, strips, tubes and the like from a liquid latex compound, comprising a transitional tube for continuous passage of said latex therethrough, and means for constantly maintaining a body of hot water at a predetermined temperature around said tube throughout a substantial portion of the length of the tube to heat said portion uniformly and thereby effect a change in said latex from its liquid to a solid form within said tube during said passage, the delivery end of said tube being submerged in and arranged for discharging the resulting solidified rubber element into said body of hot water.

2,284,521
WIND MOTOR WITH VARIABLE PITCH AUTOMATIC SPEED CONTROL
Julio Nicanor Insua, Buenos Aires, Argentina
Application May 3, 1940, Serial No. 333,220
In Argentina April 1, 1940
2 Claims. (Cl. 170—68)



1. In a wind motor, a rotatably supported drive shaft, a mounting casing mounted on said shaft, a hollow pitch adjusting shaft rotatably mounted on said casing and extending in a plane substantially perpendicular to the axis of said drive

shaft, a propeller blade mounted on said pitch adjusting shaft and enclosing a portion thereof, a centrifugal weight slidably mounted in the portion of the bore of said pitch adjusting shaft within said blade, a cable drum mounted within said casing, a cable wound on said drum and connected to said weight, a gear wheel idly mounted on said drive shaft, first gear means connecting said gear wheel to said pitch adjusting shaft, second gear means connecting said gear wheel to said drum, and a spring mounted in said casing and adapted to apply to said gear wheel a rotational force which will oppose the rotational force transmitted thereto from said drum as said weight is pulled outwardly by centrifugal force.

2,284,522

BUSHING REAMING AND DRIVING TOOL

Charles A. Keen, Lancaster, Pa., assignor to L. O. Beard Tool Company, Lancaster, Pa.

Application July 22, 1940, Serial No. 346,830
2 Claims. (Cl. 77—72)



1. In a tool for reaming and driving bushings from king bolts, the combination of a cylindrical fluted shank having a reduced annular extension on one end thereof, a flared shoulder on said extension, a tubular collar having an axial bore adapted to be removably sleeved on said extension and engaging with said flared shoulder, and a shoulder on said collar engaging with one end of said king bolt bushing whereby longitudinal movement of said shank forces said collar against and drives the bushing from or into the king bolt, said shank being provided with a relatively smooth pilot surface intermediate the extension and fluted portion, said pilot surface cooperating with said fluted portion for guiding the tool during the reaming of a bushing.

2,284,523

NITRATED PETROLEUM PHENOL COMPOSITION

Henry B. Kellog, Union City, N. J., and Peter J. Gaylor, Staten Island, N. Y., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 10, 1938, Serial No. 244,916
8 Claims. (Cl. 167—28)

1. The process for producing a horticultural spray emulsion which consists in first treating a high boiling petroleum distillate with aqueous caustic alkali, then extracting the treated distillate with a strong alkali dissolved in an oil immiscible solvent not reactive with the alkali, removing the solvent from the extract, acidifying the residue to recover oil-soluble petroleum phenols, nitrating the oil-soluble petroleum phenols and emulsifying the nitrated oil-soluble phenols together with a highly refined petroleum distillate in water by means of an emulsifying agent.

2. A readily emulsifiable insecticidal concentrate comprising a highly refined petroleum distillate, a nitrated mixture of mineral oil-soluble petroleum phenols of more than 10 carbon atoms containing oxygen other than that present in the nitro and phenol groups, which nitrated petroleum phenols results from the nitration of the extract secured by first treating a high boiling petroleum distillate with aqueous caustic alkali, removing the aqueous caustic alkali, extracting the treated distillate with a strong alkali dissolved in an oil-immiscible solvent not reactive with the alkali, removing the solvent and acidifying the residue to recover the extract and an emulsifier.

2,284,524

OPHTHALMIC MOUNTING

George P. Kimmel, Brookeville, Md., assignor to The Ful-Vue Sales Company, Providence, R. I.

Application October 25, 1939, Serial No. 301,242
3 Claims. (Cl. 88—47)



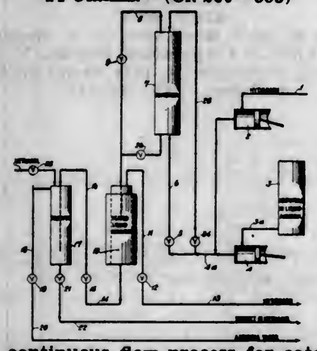
1. In spectacles, eyeglasses and the like, in combination a pair of lenses, a pair of eyewires, temple connections, and a bridge, said lenses each having front and rear faces, top, bottom, nasal and temporal side portions, the marginal edge of each lens being formed with a groove having the front edge thereof substantially higher than the rear edge, said groove having a portion below the inner edge of the lens, said eyewires having an outer side extending substantially horizontally rearwardly from the front edge of said groove, each eyewire having a rear side extending above and substantially coplanar with the rear face of a lens to thereby provide a surface to which said temple connections and bridge may be secured, and each eyewire being of a cross section complementary to that of the lens groove whereby the lens will be connected to the eyewire when encircled thereby.

2,284,525

PROCESS FOR THE HYDROGENATION OF ADIPONITRILE

Arthur W. Larchar, Wilmington, Del., and Howard S. Young, Fairville, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application September 16, 1939, Serial No. 295,180
14 Claims. (Cl. 260—583)



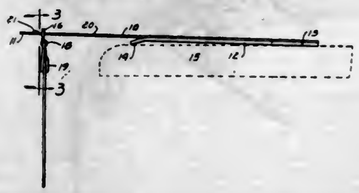
1. A continuous flow process for catalytically hydrogenating adiponitrile which comprises passing hydrogen with a mixture of liquid adiponitrile and ammonia, in a stream through a reaction zone containing a hydrogenation catalyst, the ammonia to nitrile molar ratio being at least 25.4:1 and the hydrogen to nitrile molar ratio being at least 38:1.

2,284,526

POSTAL SCALE

Frank J. Linsley, Pasadena, Calif.

Application September 18, 1939, Serial No. 295,365
4 Claims. (Cl. 265—53)



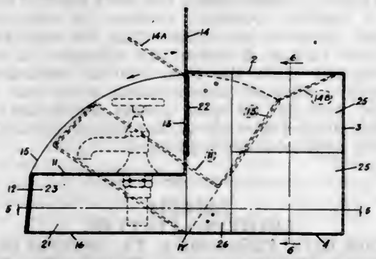
1. A device of the character described comprising, a scale beam, one end of which is provided with a plurality of spaced graduations therealong, each of which comprises a pair of raised elements spaced along the beam to form a notch therebetween, a weighted arm secured to the other end of said beam, which arm extends back along the beam a portion of its length, the backward extending end of said arm being bent downwardly to form a fulcrum, a scale member slideably mounted upon the end of said beam opposite said weighted arm and adapted to be selectively received in said notches, a stop member extending laterally from the outer end of said graduated portion which limits the normal outward sliding movement of said scale member but over which said scale member may be forced without permanent distortion, and a clip secured to said scale member, for the purpose described.

2,284,527

EXHIBITION PACKAGE

Norman H. Lonz, Sandusky, Ohio, assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio, a corporation of Ohio

Application May 9, 1941, Serial No. 392,719
3 Claims. (Cl. 206—44)



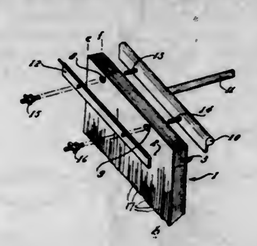
1. A combined packing and display container comprising in combination a container body, a side thereof hinged thereto, said side having formed upon that face which is inward when the container is closed a shelf parallel to but spaced from said side, and a back behind said shelf, said back extending from the level of said shelf to the top of the container when in display position, and a display flap hinged to the top of said back and adapted to stand above the top of said container when in display position.

2,284,528

SWEEPER BRUSH

Walter A. Malmquist, Post Mills, Vt.

Application February 10, 1941, Serial No. 378,209
1 Claim. (Cl. 15—187)



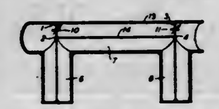
A sweeper brush comprising generally rectangular, relatively thin sheets of wood, each formed from a sheet cut circumferentially from the surface of a billet of wood, groups of said sheets being bound together directly along one of their adjacent marginal edges to form packets having a plurality of brushing leaves, the binding holding the layers of sheets in one group superposed directly one upon the other, and in substantially flattened form, with the grain of the wood running straight from the binding at the top to the free edges at the bottom, separator wood strips interposed between said groups of leaves adjacent the upper bound edges thereof, and a pair of clamping strips secured to said sheets adjacent the bound edges thereof.

2,284,529

WAVE TRANSMISSION NETWORK

Warren P. Mason, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 4, 1939, Serial No. 288,287
16 Claims. (Cl. 178—44)



1. A wave transmission network for transmitting with substantially uniform ratio of impedance transformation a selected band of frequencies between two loads having unequal impedances comprising three sections of uniform transmission line arranged in series-shunt relationship and two capacitors connected at the respective ends of said arrangement of line sections.

2,284,530

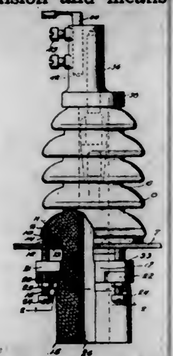
BUSHED TRANSFORMER TERMINAL

Edwin M. Meyer, Parkersburg, W. Va., assignor to Porcelain Products, Inc., Findlay, Ohio, a corporation of Delaware

Application November 3, 1939, Serial No. 302,767
3 Claims. (Cl. 174—153)

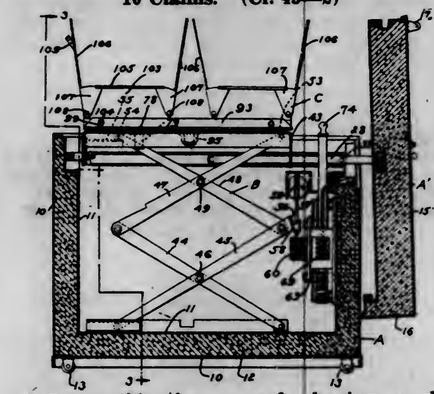
1. In combination with a cover plate having an opening with an upturned lip, a bushing having a peripheral shoulder with a groove opposite the lip on the plate, sealing means between said shoulder and plate and separate sealing means between said groove and lip, a conically flaring extension on the bushing, a segmental collar

having a conical inner wall in extended contact with the extension and means carried by said



collar for pressing against the plate on the side opposite the sealing means.

2,284,531
LEDGER SAFE AND THE LIKE
William C. Miller and Earl Boughton, Canton, Ohio, assignors to Diebold Safe & Lock Co., Canton, Ohio, a corporation of Ohio
Application December 2, 1937, Serial No. 177,806
10 Claims. (Cl. 45—2)



1. In combination, a safe having a door adapted to be moved to one side thereof, supporting structure vertically movable within the well of said safe, means for raising said supporting structure including a rotatable mounted member extending through a side of said safe and provided with a disk plate, and motor driven means carried by said door and including a driven clutch plate adapted to be brought into engagement with said first-mentioned plate when said door is moved to a position to the side of the safe.

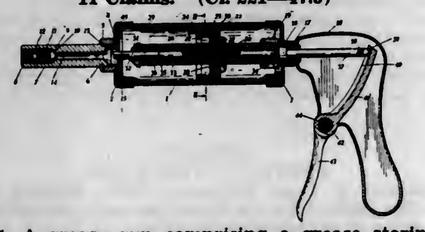
2,284,532
PORTABLE WINCH
Clive Hastings Kingsley Napier, Cricklewood, England, assignor to Handley Page Limited, Cricklewood, Middlesex, England
Application April 3, 1940, Serial No. 327,701
In Great Britain April 20, 1939
6 Claims. (Cl. 254—186)

3. A portable hoisting winch, comprising a winding device for the winch cable, a carrier for supporting the winding device, an arm connected to and extending outwardly from the carrier, a sheave block carried by the arm, a tubular fair lead on the sheave block for the cable projecting downwardly from the sheave block and serving as a supporting foot for transferring the reac-



tion due to the load in the cable to a localized area of the surface on which the winch rests, and an articulated joint connecting said arm and sheave block for permitting changes in the relative level and inclination of the carrier and sheave block.

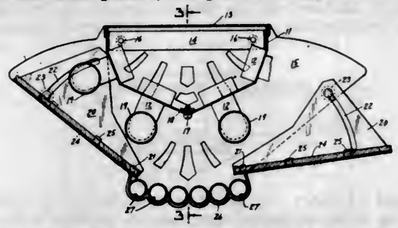
2,284,533
GREASE GUN
Chaim Jakob Neuman, London, England
Application October 28, 1940, Serial No. 363,184
In Great Britain November 9, 1939
11 Claims. (Cl. 221—47.3)



1. A grease gun comprising a grease storing cylinder, a main plunger within the said storing cylinder, screw and nut means for traversing such main plunger along the said storing cylinder, a handle rotatable relative to the grease storing cylinder and controlling the said screw and nut means, a secondary cylinder in communication with the said storing cylinder, a secondary plunger co-operating with this secondary cylinder to eject grease therefrom, and a lever pivoted directly to said handle for actuating the said secondary plunger.

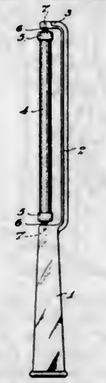
2,284,534
LIGHTING FIXTURE
Richard Orth, Philadelphia, Pa., assignor to Gill Glass & Fixture Company, Philadelphia, Pa., a corporation of Delaware
Application May 1, 1941, Serial No. 391,297
2 Claims. (Cl. 240—78)

1. In a fluorescent lighting fixture adapted for overhead mounting, a long, narrow horizontal body, end plates fixedly secured to the ends of the body and extending laterally at each side of the body and below the body, pairs of fluorescent lamp sockets fixedly supported adjacent the end plates for carrying fluorescent lamps outside the body and inside the edges of the end plates, fluorescent lamps in the sockets, movable plates pivotally secured to the end plates below the body and swingable about horizontal axes, light diffusing panels extending between and carried by the movable plates, the panels being close to the



lamps and extending up outside the lamps when in the upper position to provide lateral screens for the lamps and being swingable downwardly to space them from the lamps to facilitate cleaning and permit lamp removal, and means to hold the movable plates in either extreme position.

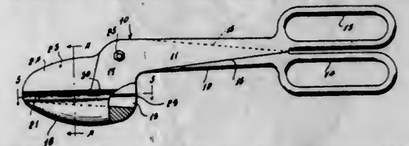
2,284,535
SHARPENING OR HONING APPLIANCE
Kendall Park, Barcelona, Spain
Application August 8, 1940, Serial No. 351,808
In Great Britain August 12, 1939
1 Claim. (Cl. 51—205)



In a portable blade sharpening appliance, a substantially elongated handle member, a supporting element comprising a relatively long leg attached at a first end thereof to an end of said handle member and further comprising a short leg formed substantially perpendicular to said long leg at the second end thereof, said long leg being offset with reference to said handle member, a substantially cylindrical abrasive element, a pair of cup members respectively fixedly carried on the ends of said cylindrical element and carrying axial pins, the end of said handle element and said short leg being provided with sockets adapted to freely rotatably receive said pins and to position said cylindrical element with its axis aligned with said handle member.

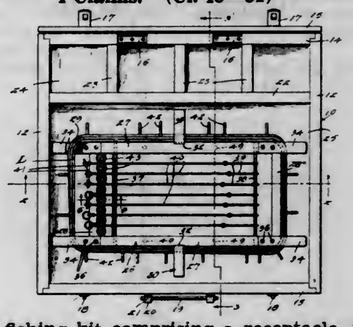
2,284,536
SHEET METAL CUTTING TOOL
Harry A. Parker, Langley, S. C., assignor of one-half to John S. Norris, Langley, S. C.
Application April 3, 1941, Serial No. 386,703
4 Claims. (Cl. 30—258)

4. A metal cutting tool comprising a pair of levers having handles at corresponding ends thereof, said levers being pivotally connected, adjacent their opposite ends, one of the levers, at its pivoted end being provided with a downwardly extending shank, a jaw projecting from the lower end of the shank in a direction away from said last mentioned lever, said jaw being disposed substantially parallel to its lever and being provided with an upwardly opening longitudinally extending channel, the other lever, at its pivoted end, having a downwardly offset



downwardly tapered portion, said portion having a bevelled lower cutting edge, said cutting edge being movable into the channel, when the jaws are closed, the upper side portions of the first mentioned jaw, on both sides of the channel, being inclined outwardly and downwardly to provide a support for a piece of material to be cut, and the upper edge of one side of the channel forming a cutting edge to cooperate with the cutting edge of the last mentioned jaw.

2,284,537
FISHING APPARATUS
Ted M. Parker, Kansas City, Mo.
Application February 17, 1941, Serial No. 379,300
4 Claims. (Cl. 43—31)

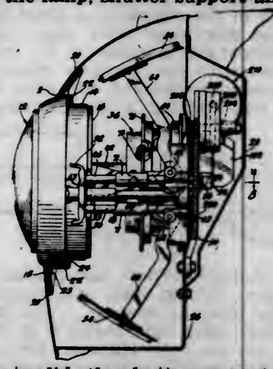


1. A fishing kit comprising a receptacle, pairs of dowel members mounted interiorly of said receptacle, a line reel engageable in said receptacle and provided with pairs of sockets to removably receive said dowels for holding said reel against movement relative to said receptacle, said reel including line holding means, and a snelling means carried by said reel inwardly of said line holding means.

2,284,538
HEAD-LAMP MOUNTING
John S. Parkes, Birmingham, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 17, 1940, Serial No. 352,998
8 Claims. (Cl. 240—7.1)

1. A retractable lamp mounting for vehicles for enabling the lamp to be exposed when desired in an opening in a suitable support on the vehicle comprising in combination with said lamp, means for guiding the lamp for substantially straight-line movement toward or from the opening, a shutter support mounted for sliding movement parallel to the direction of movement of the lamp,

a shutter pivoted to said support for movement toward or from the opening at an angle to the path of movement of the lamp, and means for moving the lamp, shutter support and shutter in



sequence to slide the shutter support and shutter away from the opening, swing the shutter out of the path of movement of the lamp, and advance the lamp into the opening or reverse said operations.

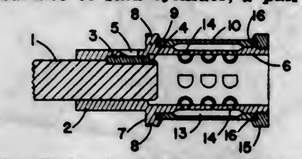
2,284,539
WINDOW CONSTRUCTION
Edmund Peremi, Manhasset, and Louis Toth, Flushing, N. Y.
Application December 8, 1938, Serial No. 244,592
14 Claims. (Cl. 189—69)



1. A window frame member comprising a web having inside and outside outwardly directed flanges, an outside inwardly directed striking flange having a marginal lip, a longer inside inwardly directed flange having an outwardly directed striking lip, a shoulder formed near the base of said longer inside inwardly directed flange, and a short rib formed on said web between said inwardly directed outside and inside flanges.

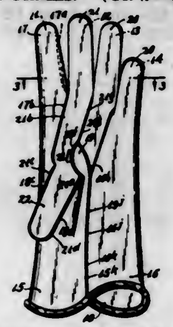
2,284,540
CATHEAD
Thomas E. Purcell, Talco, Tex.
Application October 17, 1940, Serial No. 361,547
2 Claims. (Cl. 242—117)

2. A cathead comprising an elongated tubular metal body, a keyway on one end of said metal body adapting it for fixation to a shaft, the remainder of the metal body being adapted to protrude beyond the end of the shaft, forming a hollow cylinder with an open outer end, a slot extending through the wall of that end of the metal body overlying said shaft and communicating with said keyway, a sleeve removably mounted on said hollow cylinder having a substantial portion of its length spaced from the outer surface of said cylinder, a pair of flanges



on said cylinder for holding said sleeve in place and to form a space adapted to receive a catline, a groove arranged on the periphery of one of said flanges for accommodating a measuring line, and air inlets provided in said cylinder for admitting air into the space between said cylinder and said sleeve.

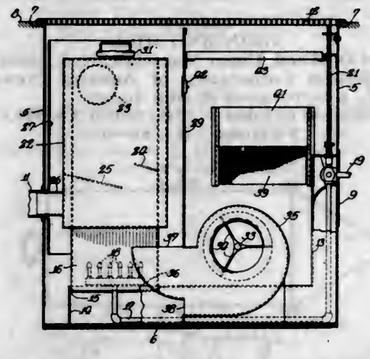
2,284,541
GLOVE
Frank Sperandeo, Brooklyn, N. Y.
Application November 7, 1940, Serial No. 364,609
4 Claims. (Cl. 2—169)



1. A glove, comprising a one piece trank having a back panel with four finger portions for the backs of the four fingers, a front thumb side portion and a front small finger portion, said front thumb side portion having a complementary index finger portion continuing into a thumb back portion continuing into a quirk portion, said front small finger portion having a complementary small finger portion, a separate second finger complementary front portion continuing into a complementary thumb front portion, and a separate third finger complementary front portion continuing slightly down the palm, and seams joining adjacent edges together.

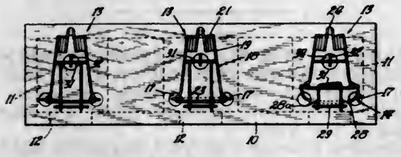
2,284,542
FLOOR FURNACE
Benjamin F. Stephens, Tulsa, Okla.
Application November 22, 1940, Serial No. 366,562
2 Claims. (Cl. 126—110)

1. In a floor furnace, the combination of a casing having vertical side walls and a closed bottom, one of said walls being provided remote from the bottom with an air supply opening, a conduit extending from said opening downwardly within the casing and inwardly along said bottom and opening upwardly at its delivery end, a combustion chamber with which said conduit communicates, means for heating said chamber, heat radiating elements connected with and disposed laterally of the combustion chamber, a vertical partition dividing said casing into two compartments, a motor mounted in one of said compartments upon the horizontal portion of said conduit below the level of said air supply opening, a pair of blowers connected to the motor and located on opposite sides of said air supply conduit, and discharge conduits for said



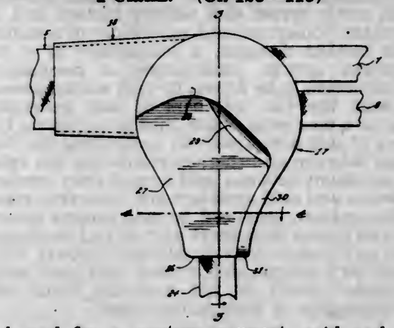
blowers extending through said partition on opposite sides of said air supply conduit, each of said discharge conduits having an upwardly opening outlet beneath a radiating element so as to deliver air against said element and having a horizontally opening outlet for delivering air along the bottom of said casing, the delivered air being discharged from the furnace through the open top thereof.

2,284,543
ANIMAL TRAP
Herbert A. Stilson, Chicago, Ill.
Application February 11, 1941, Serial No. 378,422
3 Claims. (Cl. 43—86)



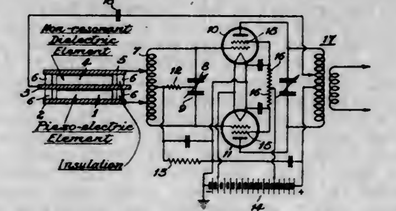
1. In an animal trap including a base member having a cavity therein, a noose member movable across said cavity, a wire spring member of substantially U-shape movably supported on said base member and having the leg connecting portion thereof operatively connected with said noose member to move the same, a pivoted bait treadle having one end positioned within said cavity and its opposite end extending outwardly from said base member, said opposite end having a projection formed thereon, means pivotally supporting said bait treadle on said base member, and a pivoted latching member of substantially U-shape movable into latching engagement with said projection to lock said spring member in a set position, with the leg portions of said latching member being laterally off-set from each other, and each leg portion being on an opposite side of said spring member connecting portion for slidable but interlocked engagement therewith, with said spring member being movable by said latching member to said set position when said latching means is moved to its latching position.

2,284,544
RUPTURE SUPPORT
Charles A. Thurmond, Perry, Ga.
Application September 3, 1940, Serial No. 355,229
1 Claim. (Cl. 128—115)



A pad for a rupture support, said pad consisting of a substantially pear-shaped plate of flexible and compressible material formed on its working face with a substantially crescent-shaped block at its upper end arranged to overlie the pelvic bone and a vertically elongated block depending from said crescent-shaped block along one lateral edge of said plate for engagement in the groin.

2,284,545
PIEZOELECTRIC DEVICE AND NEUTRALIZER
George L. Usselman, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application February 27, 1941, Serial No. 380,899
8 Claims. (Cl. 250—36)

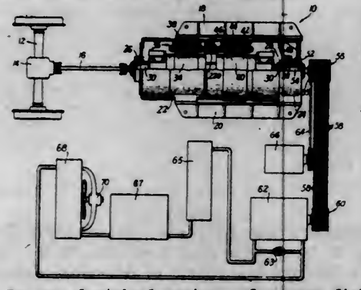


1. In combination, a discharge tube oscillator having input and output circuits, a frequency control device including a piezo-electric element and electrodes one of which is connected to said input circuit, means for causing energy to be fed back from said output circuit to another electrode of said control device, and means for neutralizing the inherent capacitance of the frequency control device, the last said means comprising electrodes facing a non-resonant dielectric element of substantially the same dimensions as those of the piezo-electric element of said device.

2,284,546
REFRIGERATION APPARATUS
Louis H. Von Ohlsen, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company Inc., a corporation of Delaware
Application July 27, 1938, Serial No. 221,647
16 Claims. (Cl. 171—313)

12. In apparatus of the character described, the combination of, a battery system, a first generator having a first armature and a first field producing means, a second generator having two independently rotating members in the form of a

second armature and a second field producing means, means constituting a variable source of mechanical power to drive said generators said thereby convert some of the mechanical power into electrical power, means to connect said generators in series across said battery system and to control the voltage of said generators in response to the instant demand, a compressor of a refrigeration system constituting a mechanical load connected to be driven by said second generator with the two members of said generator acting as a magnetic clutch, means to control the driving of said compressor by controlling the flux linkage between and thereby regulating the relative movement between said second field producing means and said armature and to thereby regulate the voltage produced by said second generator, and means to connect said second generator to act as a motor deriving electrical power from said battery system and driving said load when mechanical power is not available from said variable source of mechanical power.



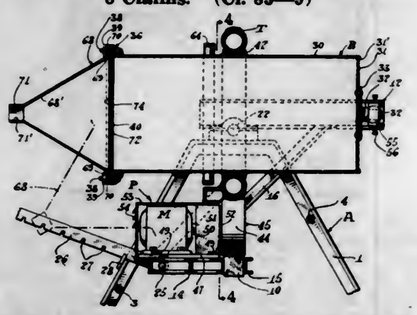
16. In an electrical system of power distribution of the class wherein a variable source of power drives a generator to deliver power to an electrical system and the connection between the generator and the electrical system is automatically regulated, the combination with said generator of an auxiliary clutch-motor unit to drive a load, a common mechanical drive connected to drive said generator and said clutch-motor unit, and a control means responsive to the generator voltage and including a switch which opens to automatically disconnect said clutch-motor unit as a motor when the voltage of said generator reaches a predetermined value and another switch which is operated to condition said clutch-motor unit to operate as a clutch, and said control means including means operable in response to the connection of said generator to said electrical system to operate the last-named switch.

2,284,547
ELECTRICAL DEVICE
John W. West, Woodside, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 6, 1938, Serial No. 223,557
13 Claims. (Cl. 136—4)



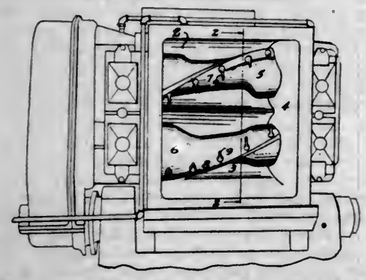
1. An evacuated device including an enclosing vessel, a unitary mount within said vessel, leading-in conductors extending through the side wall of said vessel, said conductors having bent end portions within said vessel extending parallel to the longitudinal axis thereof, tubular terminals on said mount connected to said bent end portions of said conductors, and thermocouple and heater elements supported by said terminals and extending over the area of said mount.

2,284,548
GRINDING MILL
Robert O. Wood, Upper Montclair, N. J., assignor to Button Corporation of America, Newark, N. J., a corporation of New Jersey
Application October 8, 1940, Serial No. 360,237
8 Claims. (Cl. 83—9)



1. A mounting for a loaded tumbling drum comprising, a frame having upstanding sides for longitudinally retaining said drum when in rotation therein; a driving pulley journalled in said frame and axially disposed beneath said drum for peripherally supporting and simultaneously imparting rotation to said drum; and means, effected by a tangential shift of said pulley in respect to said drum, for longitudinally balancing the load when the drum is rotated, whereby to avoid unequal pressure against the sides of said retaining frame.

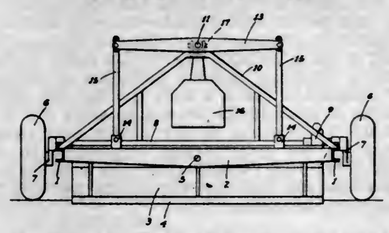
2,284,549
APPARATUS FOR PLASTICIZING, WASHING, OR DISSOLVING RUBBER OR THE LIKE
Leon Yablonski, Saginaw, Mich., assignor to Baker Perkins Inc., Saginaw, Mich., a corporation of New York
Application December 26, 1939, Serial No. 310,983
4 Claims. (Cl. 18—2)



1. In a machine for washing, dissolving, or plasticizing tough, elastic material, in combination, a receptacle comprising two parallel trough sections arcuate in cross-section and intersecting to present a ridge-like saddle between them, a rotor journaled in each trough section coaxially therewith and driven to rotate inwardly and downwardly toward said saddle, each of said

rotors presenting a blade having a working edge formed and positioned to co-operate with the saddle and the rotor on the opposite side of the saddle to stretch and break pieces of material and to coact with the arcuate surface of its trough section to plasticize the material, and a plurality of spaced prongs fixed to said rotor at points inset from the working edge of said blade and projecting forwardly and outwardly in advance of said working edge toward its circle of revolution.

2,284,550
SELF-LEVELING SCRAPER BLADE
Christopher N. Adams, Galt, Calif.
Application August 3, 1940, Serial No. 350,699
4 Claims. (Cl. 37—153)



1. In a leveler having a frame, a blade unit, means pivoting the unit on the frame for swinging movement in a vertical plane transversely of the leveler, a shaft pivotally supported from the frame above the unit parallel to the pivot thereof, a connection between the shaft and unit to swing the latter with the rotation of the shaft, a pendulum depending from the shaft and a connection between the pendulum and shaft to cause the two to move as a unit with transverse swinging of the pendulum while enabling the pendulum to maintain a perpendicular position in a transverse plane irrespective of tilt of the leveler and shaft in a longitudinal plane.

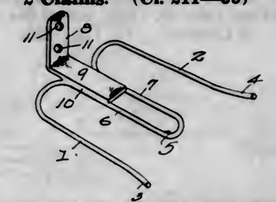
3. In a leveler having a frame which includes a cross member, a transverse plate parallel to and adjacent said member and pivoted thereon for swinging movement in a vertical transverse plane, control means connected to the plate to swing the same, a blade disposed adjacent and pivotally supported from the plate for angling movement relative thereto in a horizontal plane, a link projecting horizontally from the blade and through the plate to one side of the pivot and means adjustably connecting the link and plate on the side of the latter opposite the blade.

2,284,551
PACKING OF POWDERED METALS
Peter P. Alexander, Marblehead, Mass.
Application August 3, 1940, Serial No. 350,788
3 Claims. (Cl. 206—84)



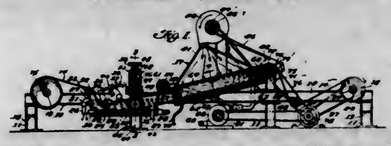
1. The combination of a gas-tight container, a finely pulverulent metal selected from the group consisting of titanium, zirconium, thorium and uranium in said container, the free space in said container being filled with a monatomic gas selected from the group consisting of argon, helium, neon and xenon.

2,284,552
BOOT RACK
Albert N. Arenz, La Crosse, Wis.
Application September 16, 1941, Serial No. 411,084
2 Claims. (Cl. 211—35)



1. A boot-rack including a pair of horizontally disposed substantially U-shaped yokes of resilient wire, an angle bracket having a brace-arm rigidly fastened to and extending along a portion of the two adjoining inner arms of the yokes, and said angle bracket also having an attaching arm.

2,284,553
PAPER WAXING MACHINE
John Bennett, Passaic, N. J.
Application January 24, 1940, Serial No. 315,411
3 Claims. (Cl. 91—55)

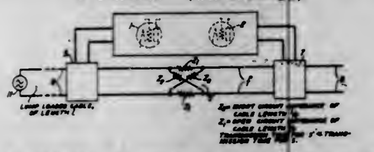


1. A machine for waxing paper of the type including a receptacle for heated wax and means for guiding the paper through the receptacle, a tank for cooling liquid having an inclined essentially elongated chilled flat top surface over which the bottom side of the waxed paper is drawn, a chilled roller disposed between the wax receptacle and the cooling unit and with the periphery thereof in intimate contact with the upper surface of the said paper for hardening the wax on the mentioned surface before the same contacts the tank, and means to direct a blast of air against the hardened wax on the top surface of the paper to hold the same pressed against the chilled top surface of the tank.

2,284,554
CONDENSATION CATALYSTS OF INCREASED ACTIVITY AND PROCESS OF PRODUCING THE SAME
Fred J. Beyerstedt, Plainfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application August 3, 1940, Serial No. 351,250
10 Claims. (Cl. 196—10)

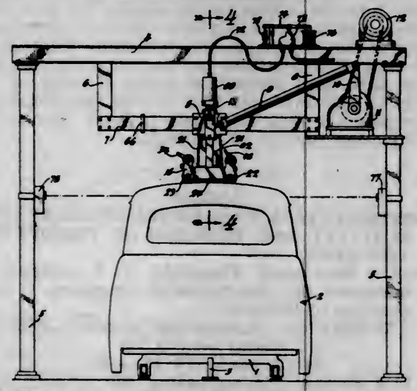
1. A process for increasing the activity of a boron trifluoride-water condensation catalyst containing organic impurities but whose effective amount of boron trifluoride is at least 55 weight %, which comprises subjecting at least a partially deactivated boron trifluoride-water catalyst of said type to heat only sufficient to volatilize off enough boron trifluoride to effect a substantial separation of the residue into a catalyst layer and a hydrocarbon layer, removing the hydrocarbon layer and introducing boron trifluoride into the catalyst layer in such amount as to produce a catalyst substantially equivalent in chemical composition to that originally employed in organic condensation reactions.

2,284,555
SIGNALING SYSTEM
Harold S. Black, Elmhurst, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 30, 1940, Serial No. 348,433
8 Claims. (Cl. 178—44)
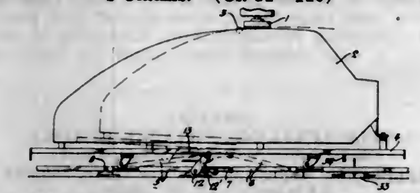


1. A signaling system comprising a signal transmission line for transmitting signals of given frequency range, loading elements spaced along said line for periodically loading said line, an amplifier connected to receive and amplify signals from said line, and means for preventing said loading elements from increasing the transmission time of said line comprising a feedback path for said amplifier having its characteristics of attenuation versus frequency and phase shift versus frequency the same as those of said periodically loaded line over the frequency range of the signals and forming with said amplifier a negative feedback loop having a loop transfer factor of larger order of magnitude than unity.

2,284,556
SANDING MACHINE
Tracy F. Brackett, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application August 30, 1940, Serial No. 354,865, now Patent No. 2,258,733, dated October 14, 1941. Divided and this application February 13, 1941, Serial No. 378,815
9 Claims. (Cl. 51—59)



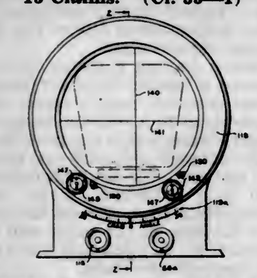
1. For surface treating a body while it is traveling on a conveyor line, a surface treating device adapted to traverse the traveling body surface, a support for the device arranged to shift the same toward and from the surface, a reciprocating carriage for the support, means to guide carriage reciprocation transversely of conveyor travel, a photoelectric cell responsive to the presence of a body in the work zone and actuating means controlled by said cell and connected with the support to shift the device toward the surface when a body is conveyed into the work zone and to retract the device as the body moves beyond the work zone.

2,284,557
WORK FOLLOWING APPARATUS
Tracy F. Brackett, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 2, 1941, Serial No. 413,322
5 Claims. (Cl. 51—110)



1. For performing work on the roof of a traveling body whose roof surface varies in height in the direction of travel, a surface working device having a fixed location above the path of body travel, a conveyor system including a wheeled dolly adapted to carry a body through the working zone of said device, means to shift the dolly vertically in relation to the device and control mechanism for said means responsive to the height of the roof presented at said working zone for maintaining the roof surface in working relation with the device.

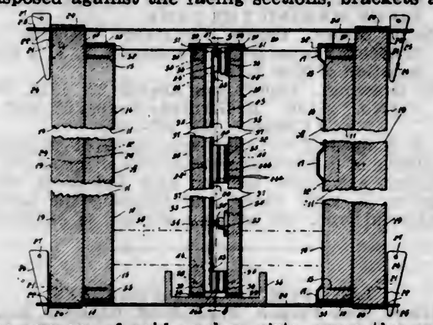
2,284,558
APPARATUS FOR PRODUCING AND UTILIZING PHOTOGRAPHIC IMAGES
Ambrosius Briechle, Brooklyn, and Roy T. Hurley, Dobbs Ferry, N. Y., and George E. Merritt, Lusby, Md., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application September 9, 1938, Serial No. 229,096
13 Claims. (Cl. 33—1)



10. In apparatus of the class described, a screen, a device for projecting successively taken aerial photographs on said screen, means adjacent said screen, said means comprising at least one wire-like element, and means for actuating said element to locate the latter parallel to a line joining successive projections of the same object on the screen.

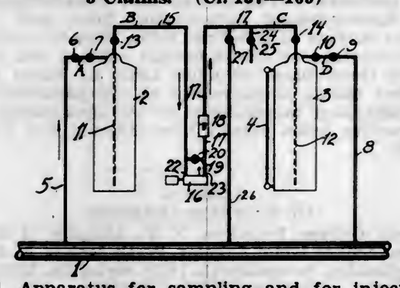
2,284,559
WALL FORM
George H. Brimhall, Hollywood, Calif.
Application January 18, 1940, Serial No. 314,546
2 Claims. (Cl. 25—131)

1. A form of the class described having facing sections, a collapsible structure including means preventing movement of said sections toward each other, said sections being in plurality, spring strips connecting the pluralities of sections, the facing sections having sheets returned and engaged with said strips reinforcing battens for the sheets engaged at their ends with said strips, the collapsible structure including anchor girts disposed against the facing sections, brackets at



the corners of said anchor girts, cross ties extending through the brackets, and wedges coacting with the cross ties and engaging the brackets.

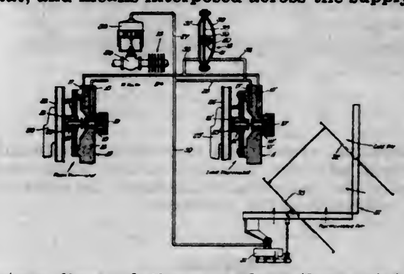
2,284,560
SAMPLING-PROPORTIONING DEVICE
Hampton G. Cornell, Baytown, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application August 10, 1940, Serial No. 352,125
3 Claims. (Cl. 137—165)



1. Apparatus for sampling and for injecting liquid into a flowing stream of fluid at a constant rate, comprising a pipe line, a sampling circuit connected through a conduit to the pipe line at longitudinally spaced points, the circuit including a receiving drum in the circuit containing a body of transfer liquid in which the fluid is substantially insoluble, and fluid actuating means in the conduit to draw fluid from the receiving drum working against a unidirectional-flow check valve in the conduit loaded to provide a pressure drop in the sampling circuit greater than any fluctuations of static pressure in the apparatus, whereby fluid flows from the pipe line into the drum at a constant rate to displace the transfer liquid which is conducted to the pipe line.

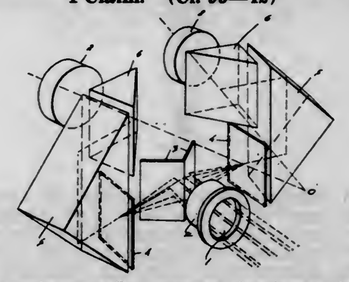
2,284,561
PRESSURE RELEASE
Alvin L. Crump, Evanston, and Lyman Crump, Chicago, Ill., assignors to The Powers Regulator Company, Chicago, Ill., a corporation of Illinois
Application April 21, 1941, Serial No. 389,614
4 Claims. (Cl. 236—79)

1. In temperature control means, the combination of primary and secondary thermostats of the same type having self-lapping valves arranged in a conduit in series and located in different spaces, the return line from the primary thermostat connecting with the supply of the second thermostat, a heat control motor connected to the return from the secondary thermostat, and means interposed across the supply and



return lines of the secondary thermostat and tending to equalize pressure when the pressure in the return from the secondary would otherwise be greater than in the supply thereto.

2,284,562
MIRROR REFLEX CAMERA WITH BINOCULAR EYE LEVEL VIEW FINDER
Georg Dittmann, Los Angeles, Calif.
Application November 26, 1940, Serial No. 367,271
1 Claim. (Cl. 95—42)

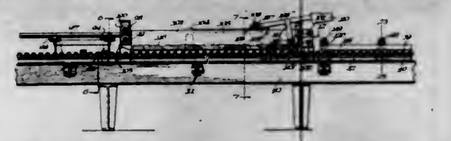


In a mirror reflex camera having a lens, a pair of upright ground glasses in the camera spaced apart and paralleling each other and also paralleling the path of the light beam which passes between the glasses, a pair of vertically arranged mirrors in the camera and located between the glasses with the mirrors arranged in V-shape with the apex toward the lens, said mirrors dividing the beam into two parts and reflecting the two parts upon the glasses, a pair of eye pieces at the top of the camera paralleling each other, said eye pieces extending horizontally and toward the front of the camera with the eye receiving parts at the rear ends, whereby the viewer is enabled to look through the eye pieces toward the subject and prisms in the camera for reflecting the images from the ground glasses to the eye pieces in erect position and correct relative positions for right and left.

2,284,563
APPARATUS FOR MAKING REINFORCED SHEETS
Kennett W. Dillman, Caruthersville, Mo., and Robert W. Barbee, Memphis, Tenn.; said Barbee assignor to said Dillman
Application December 16, 1938, Serial No. 246,242
22 Claims. (Cl. 154—1)

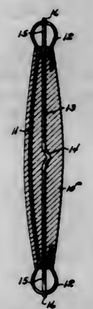
2. In a device of the character described, a conveyor for supporting a sheet of material, means for applying adhesive to said sheet in streaks extending in the direction of the move-

ment of the sheet, means for applying cleats to the individual streaks of adhesive, abutments on the conveyor for engagement with the rear ends



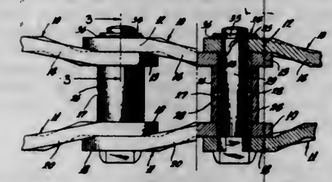
of individual cleats, said last-named abutments and said adhesive applying means being each mounted for individual adjustment transversely with reference to the conveyor.

2,284,564
FISHING SINKER
Charles K. Ebersole, Brainerd, Minn.
Application July 17, 1941, Serial No. 402,821
2 Claims. (Cl. 43—52)



1. A fishing sinker comprising, an elongated weight, loops at opposite ends of the weight, and a wire engaged longitudinally through the weight and terminating in angular resilient ends extending diametrically across the loops and hooking over the loops for slidably clamping a fishing line to the loops.

2,284,565
CHAIN
Eugene F. Emmons, Sandusky, Ohio, assignor to The Union Chain and Manufacturing Company, Sandusky, Ohio, a corporation of Ohio
Application July 19, 1940, Serial No. 346,448
6 Claims. (Cl. 74—251)

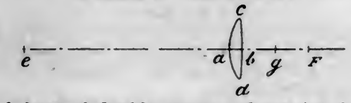


6. In combination: chain parts, comprising adjoining links and pin means connecting said links, said pin means having a groove; and holding means, holding said links against displacement from position on said pin means, comprising collar means, in addition to said links and said pin means, fitting said groove, and constructed and arranged to form an abutment engageable with one of said links, and having a fused-metal connection with one of said chain parts.

2,284,566
PRODUCTS CAPABLE OF PREVENTING THE COAGULATION OF BLOOD AND A METHOD OF MAKING THE SAME
Horst Elsner, Berlin, Germany, assignor to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey
No Drawing. Application August 22, 1938, Serial No. 226,140. In Germany August 23, 1937
9 Claims. (Cl. 167—65)

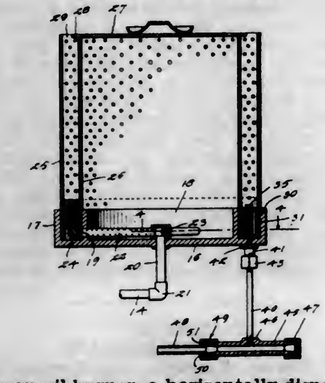
4. A method for the preparation of products capable of preventing coagulation of blood, comprising extracting the red alga *Delesseria sanguinea* L. with water, and isolating the active material from the aqueous extract so obtained.

2,284,567
LENS FOR OPTICAL PURPOSES
James Weir French, Anniesland, Glasgow, Scotland, assignor to Barr and Stroud, Limited, Anniesland, Glasgow, Scotland
Application June 9, 1941, Serial No. 397,342
In Great Britain September 8, 1939
4 Claims. (Cl. 88—57)



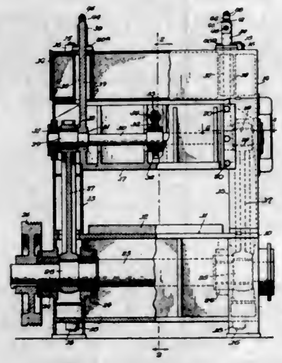
1. A lens of double convex character for optical purposes, having one surface of paraboloidal or approximately paraboloidal form and the other surface of spherical form, with the radius of curvature of the spherical surface not less than three times or more than six times the vertex radius of curvature of the paraboloidal surface, and the material of the lens having a refractive index greater than 1.5 and less than 1.55.

2,284,568
OIL BURNER STARTER
Aaron Garber, Brooklyn, N. Y., assignor of fifty per cent to Isidor Sokolov, Perth Amboy, N. J.
Application November 20, 1939, Serial No. 305,393
2 Claims. (Cl. 158—90)



1. In an oil burner, a horizontally disposed circular base plate having an axially arranged opening, uniformly spaced inner and outer upstanding coaxially arranged annular members integral at their bottoms with the upper face of said plate, a pair of spaced parallel upstanding elements arranged between and integral with portions of the inner faces of said members, opposed portions of said members coacting with a part of said base and the said elements to provide a well of U-shaped cross section for the reception of a wick of a height greater than the depth of the well, said well being formed of a pair of side walls, a pair of end walls and a bottom wall, the other opposed portions of said members coacting with said elements and another part of said base to provide a chamber arranged between the end walls of the well for receiving a pilot means, the said base being formed eccentrically thereof with an opening communicating with said chamber, spaced upstanding coaxially arranged outer and inner perforated shells having opposed portions of their lower parts cutout, the remaining portions of the lower parts of said shells being seated on portions of the bottom wall of said well, bearing against portions of the inner surfaces of said members, against a side face of said elements and upon the pilot means in said chamber, said cutouts forming a clearance for said elements, an oil supply line extending upwardly through said axial opening having its upper end surrounded in spaced relation by said inner member, radially disposed ducts positioned above said base having their outer ends arranged in the body of said inner member and opening into said well, a hollow cap on the upper end of said supply line formed with spaced apertures, said ducts having their inner ends connected to the walls of the apertures in and communicating with said cap, and an oil supply means for the pilot means extending from said supply line and up through said eccentric opening into said chamber.

2,284,569
PRESS
Rudolph W. Glasner, Chicago, Ill.
Application May 13, 1940, Serial No. 334,841
2 Claims. (Cl. 113—38)



1. In a press embodying a crown and a slide reciprocable between guides located below the crown, the combination of a rigid extension connected to each end of the slide and projecting for a substantial distance above the slide, each of said extensions being of a substantial width in a direction transverse to the longitudinal dimension of the slide, each extension passing freely through an opening in the crown, and cooperating pairs of guide members individual to said extensions and between the members of each of which pairs one of said extensions reciprocates, the last said guide members being rigid and mounted upon the crown and projecting above the top thereof, each of the lateral edges of each of said extensions having a free sliding engagement with one of the last said guide members.

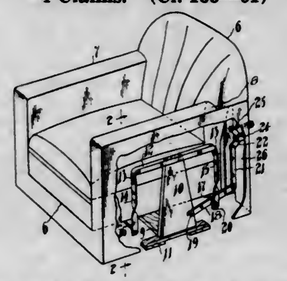
2,284,570
COATING AND IMPREGNATING COMPOSITION
Anthony H. Gleason, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application February 21, 1939, Serial No. 257,669
5 Claims. (Cl. 260—18)

1. A coating composition comprising a liquid drying oil vehicle blended with a long chain polyester which is an autocondensation product of a saturated monocarboxylic fatty acid containing a hydroxyl group attached to a secondary carbon atom, said polyester having a molecular weight of at least 5,000, being light in color, soluble in mineral hydrocarbon oil, and having the general formula:

$$HO\left[-\underset{\underset{R}{|}}{CH}-(CH_2)_x COO-\right]_n H$$

in which x is at least 5, R is a hydrocarbon group containing 6 carbon atoms, and the bracket having a subscript n encloses the recurring structural unit of the polyester.

2,284,571
OSCILLATING CHAIR
Jules Heller, Toronto, Ontario, Canada
Application February 26, 1940, Serial No. 320,862
In Canada August 5, 1939
4 Claims. (Cl. 155—61)



1. The combination with a relatively stationary base, of a chair body, means for suspending the chair body over the base for oscillation relative thereto, and a locking device comprising a detent bar pivoted to said base and extending in the direction of oscillation of the chair body, said detent bar having a notch removed from the pivot point, a plate rigidly carried by the chair body for positive locking engagement by said notch, a connecting rod linked to the detent bar, a bellcrank mounted on the chair body and having an arm connected to the said rod, and means connected to the other arm of the bellcrank for shifting the detent bar between locking and nonlocking positions with respect to said plate.

2,284,572
SPOTTING TABLE
Joseph R. Holder, Fremont, Nebr., assignor of one-half to Charles N. Johnson and Winifred Johnson, both of Fremont, Nebr., jointly, with right of survivorship
Application June 17, 1940, Serial No. 341,070
5 Claims. (Cl. 68—240)

2. A spotting table comprising a standard, and a table structure carried by said standard, said structure comprising a housing having bottom side and end walls, a transparent top, means securing said top onto said housing, said top

having perforations in at least a portion thereof, illuminable means in said housing below said



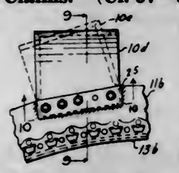
top, and an L-shaped partition in said housing extending below said top and about the perforated area thereof.

2,284,573

DIGGING WHEEL STRUCTURE

Hubert Hollmann and William G. Van Voorhis, Findlay, Ohio, assignors to The Buckeye Traction Ditcher Company, a corporation of Ohio

Application April 4, 1940, Serial No. 327,800
6 Claims. (Cl. 37—91)



1. A digging wheel for trenching machines comprising a pair of laterally spaced substantially parallel rims having segmental gears secured thereto adjacent the inner edge portions thereof, means at the outer edge portion of said rims providing a plurality of spaced outwardly offset bucket receiving rim sockets, buckets fitting said rim sockets with the inner walls thereof substantially in alignment with the adjacent inner walls of the rims, the buckets inclining forward with respect to the direction of rotation of the wheel and the end walls of the rim sockets are inclined with respect to the bottom walls thereof in substantially the same degree as the inner edge walls of the buckets are inclined to their bottoms to enable reversing the position of the buckets.

2,284,574

APPARATUS FOR CUTTING OR DESEAMING METAL

Wilgot J. Jacobsson, Plainfield, N. J., and Cecil V. Eskridge, Chicago, Ill., assignors to Oxweld Acetylene Company, a corporation of West Virginia

Application May 4, 1940, Serial No. 333,320
17 Claims. (Cl. 266—23)



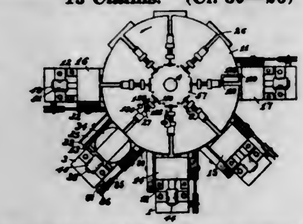
1. A blowpipe for cutting or deseaming metal and having, in combination, a cutting oxygen supply valve; a starting rod feed mechanism; means, including an air supply valve, for discharging an auxiliary jet of air for blowing slag formed during a cutting operation; and a common control lever for operating in succession the feed mechanism, the cutting oxygen supply valve and the air supply valve.

2,284,575

FEEDING MACHINE FOR ROLLING MILLS

James B. Johnson, Cleveland, Ohio, assignor to Mary Anitta Johnson, Cleveland, Ohio

Application February 14, 1939, Serial No. 256,297
13 Claims. (Cl. 80—26)



8. An article feeding mechanism arranged to feed articles successively to a plurality of separate operating units, which comprises a substantially horizontal support rotatable about a vertical axis, article gripping means above said support, driving mechanism arranged to move the gripping means toward and from an edge of said support, and indexing means moving said gripping means horizontally, the gripping means by its motion toward and from the edge of said support causing the articles to approach and recede from the successive separate operating units.

2,284,576

VULCANIZATION OF RUBBER

Paul C. Jones and Roger A. Mathes, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application February 8, 1939, Serial No. 255,355
4 Claims. (Cl. 260—786)

1. The process which comprises vulcanizing a rubber in the presence of a salt in which 2-mercaptothiazoline is combined with a quaternary ammonium compound derived from a heterocyclic nitrogen base.

2,284,577

VULCANIZATION OF RUBBER

Paul C. Jones and Roger A. Mathes, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application February 8, 1939, Serial No. 255,357
14 Claims. (Cl. 260—788)

1. The process which comprises vulcanizing a rubber in the presence of a salt in which a 2-mercaptothiazoline is combined with a polyamine containing at least two primary amino groups.

2,284,578

VULCANIZABLE RUBBER COMPOSITIONS

Paul C. Jones, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application June 30, 1939, Serial No. 282,063
20 Claims. (Cl. 260—788)

1. The method which comprises heating, in the presence of a N-thiocamine and a compound which is stable at room temperatures but which decomposes at vulcanizing temperatures with the formation of carbon disulfide, a rubber composition comprising a rubber to which sulfur has been added only in a combined form.

2,284,579

VULCANIZATION OF RUBBER

Paul C. Jones, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application April 25, 1940, Serial No. 331,640
12 Claims. (Cl. 260—785)

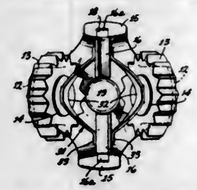
1. The method which comprises vulcanizing a rubber in the presence of a non-reverting accelerator and thiuram disulfide in the absence of added free sulfur.

2,284,580

WELL DRILLING BIT

Archer W. Kammerer, Fullerton, Calif.

Application February 28, 1940, Serial No. 321,257
5 Claims. (Cl. 255—61)



5. A rotary well drilling bit, which includes a main body having a central longitudinal passage therethrough and a pair of opposed depending legs, a bearing support secured to each leg, a cutter rotatably mounted on each bearing support, a second pair of legs depending from the main body between and substantially at right angles to said first-named pair, drag cutters secured to said second pair of legs and spaced from the bit axis on opposite sides thereof to provide a continuation of said central passage extending entirely through the drilling bit, and a web extending between and fixed to each bearing support and drag cutter, said webs being laterally clear of said longitudinal passage.

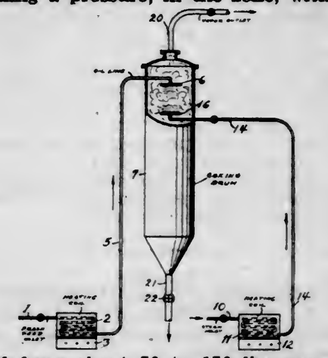
2,284,581

ART OF TREATING HYDROCARBONS

Paul E. Kuhl, Madison, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application March 7, 1940, Serial No. 322,699
2 Claims. (Cl. 196—55)

1. A continuous method of forming from a relatively high boiling petroleum oil fractions of lower boiling range than the original oil, which comprises admixing said oil with 10% to 40% by weight of an adsorbent material having a particle size within the range of from 60 to 400 mesh, heating the oil to a temperature within the range of from 850° F. to 1000° F., feeding the oil to an elongated coking zone at a feed rate of from about 0.1 to 2.0 volumes of cold oil per volume of reaction space per hour, causing said oil to pass in atomized form through the coking zone causing steam at a temperature within the range of from about 500° F. to 1000° F. to flow in contacting relation with said oil countercurrently to said oil through said coking zone, the amount of steam fed to the coking zone being within the range of from about 20% to 40% by weight based on the oil fed to the zone, maintaining a pressure, in the zone, within the



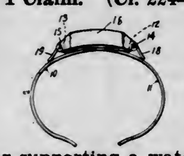
range of from about 50 to 150 lbs. per square inch absolute, and recovering hydrocarbons in vapor form from one end of said zone and a friable coke from the other end of said zone.

2,284,582

WRIST BAND

Olgierd G. Langer, Philadelphia, Pa.

Application January 2, 1940, Serial No. 312,015
1 Claim. (Cl. 224—4)



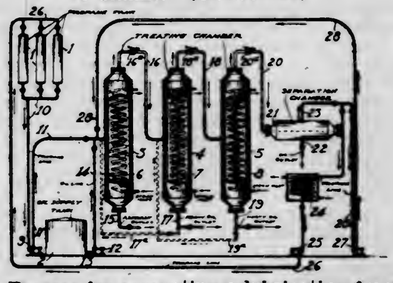
A band, for supporting a watch or other article to be displayed about the wrist and having supporting means at each end thereof, comprising two separate members, each having means at one end thereof for engaging the article to be displayed and crossing each other, between the article and the wrist, to form a clasp with the remaining free ends, with just the pressure of the article being displayed on the wrist the sole means of holding the band in position.

2,284,583

PROCESS FOR TREATING HYDROCARBON OILS WITH LIGHT HYDROCARBONS

Warren K. Lewis, Newton, Mass., assignor to Standard Oil Development Company, a corporation of Delaware

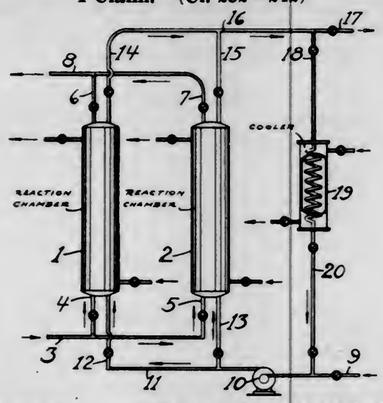
Application August 10, 1934, Serial No. 739,226
6 Claims. (Cl. 196—13)



1. Process for separating a lubricating fraction of petroleum into constituent parts which com-

prises diluting the lubricating fraction with a light hydrocarbon solvent, bringing the diluted oil to the critical temperature and pressure of the light hydrocarbon solvent, then increasing the pressure to substantially above the critical pressure, removing any material remaining undissolved, reducing the pressure whereby the liquid phase is separated into two layers, removing the bottom layer, reducing the pressure on the upper layer whereby it is again separated into two layers, removing the bottom layer, and finally reducing the pressure on the upper layer to the critical pressure of the light hydrocarbon solvent whereby the oil and light hydrocarbon become substantially insoluble in each other, and recovering the oil layer therefrom.

2,284,584
REGENERATION OF CONTACT MASSES
Homer Z. Martin, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application September 14, 1940, Serial No. 356,812
1 Claim. (Cl. 252—242)

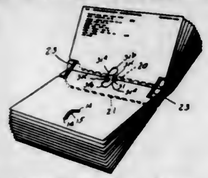


In contact processes employing fixed beds of solid contact material positioned in a bank of reaction chambers which are subjected to alternate periods of treating and oxidative regeneration wherein spent regenerating gas removed from the chambers during the final stages of regeneration contains an excess of free oxygen which is purged from the reaction chamber before starting the next treating period and wherein the reaction and regenerating periods for the separate reaction chambers are arranged in staggered relation so that one reaction chamber is starting regeneration while another is undergoing purging treatment following the regenerating period; the method of purging the reaction chamber following the regenerating period which comprises discontinuing the oxygen supply to the reaction chambers to be purged upon completion of the regeneration period, thereafter circulating spent regenerating gas containing unconsumed oxygen removed from said last-named chamber in parallel through a reaction chamber undergoing initial stages of regeneration and the reaction chamber to be purged whereby excess oxygen present in said spent regenerating gas is consumed by regenerating contact material into said chamber undergoing initial stages of regeneration, continuing the recirculation of said spent regenerating gas in parallel through said chambers until the excess oxygen present in said gas is substantially exhausted, thereafter discontinuing the circulation of spent regenerating gas through said chamber undergoing purging treatment and thereafter passing gases to be treated therethrough.

2,284,585
PIGMENT TREATMENT
Ray L. McCleary, Richardson Park, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 2, 1940, Serial No. 332,990
17 Claims. (Cl. 106—300)

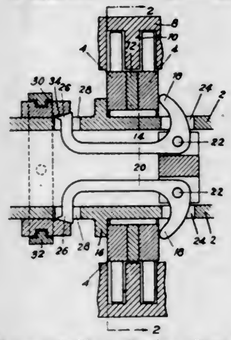
1. In a process for producing an improved pigment the steps which comprise suspending a pigment comprising uncalcined calcium sulfate in a solution of a soluble phosphate, the amount of soluble phosphate employed being chemically equivalent to between about 0.1% and about 5% of the calcium sulfate present in the pigment, adjusting the pH of the slurry to between about 7 and about 10, dewatering the pigment slurry and thereafter calcining the resulting pigment.

2,284,586
VISIBLE MULTIPLE RECORD
Joseph B. McDermott, Danville, Ill.
Application July 10, 1941, Serial No. 401,837
18 Claims. (Cl. 129—16.7)



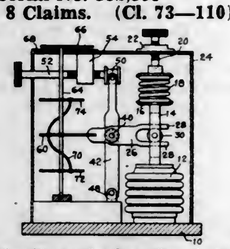
2. The combination of a sheet including a pair of spaced slots and a sinuous light spring member mounted in said slots and having a curved portion exposed on one side of the sheet and at least one curved portion exposed on the opposite side of the sheet.

2,284,587
REGULATION OF BLOWERS
Max Adolf Müller, Biederitz, near Magdeburg, Germany, assignor to Junkers Flugzeug-und-Motorenwerke Aktiengesellschaft, a corporation of Germany
Application January 27, 1939, Serial No. 253,203
6 Claims. (Cl. 230—114)



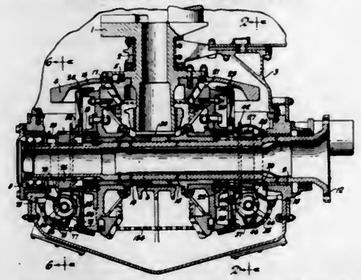
1. A load regulating device for a multi-stage axial flow blower having a plurality of rings of rotor blades mounted upon a shaft member and associated rings of stator blades mounted upon a housing member, comprising first means for mounting the rings of blades upon at least one of the members for free rotation thereon, and second means for clutching separate rings of said blades to their respective member, whereby a stage of said blower is selectively disconnectable and the thus freely rotatable blades are rotated by air flow from the remaining stages.

2,284,588
INDICATING DEVICE
Arthur E. Rineer, Dayton, Ohio
Original application June 15, 1938, Serial No. 213,937. Divided and this application April 30, 1940, Serial No. 332,595
8 Claims. (Cl. 73—110)



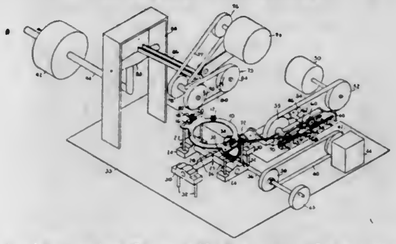
4. An indicating device for translating rectilinear movement into rotary movement, said indicating device including an indicant, a device for rotating the indicant including a wire formed into a spiral offset with respect to the axis of rotation thereof, a lever mechanism responding to the rectilinear force to be measured for actuating the indicant, said lever mechanism including an adjustable fulcrum upon which the lever is mounted for pivotal movement, one end of the lever being slotted, and means actuated by the force to be measured traveling in a rectilinear path, said means being seated in the slot for actuating the lever, the opposite end of the lever being slotted and straddling the spiral wire so as to cause the indicant to record the displacement caused by the force exerted upon the lever.

2,284,589
MARINE DRIVE AND REVERSE GEAR
Edward V. Rippingille, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 6, 1939, Serial No. 354,893
5 Claims. (Cl. 115—34)



1. In combination, a pair of gear wheels driven freely in opposite directions on a shaft common to both of them, and friction synchronizing and dog clutch means associated with each of said gear wheels and said shaft, constituting forward and reverse drive clutches for driving said shaft alternatively from one or the other of said gear wheels; said forward drive clutches being engaged and disengaged by shift levers with actuating means therefor on a turnable cross shaft and said reverse drive clutches being engaged and disengaged by shift levers with actuating means therefor on another turnable cross shaft; chain wheels on the cross shafts and a roller chain connecting the shafts together for like movement; said roller chain being driven by an electric servo motor.

2,284,590
APPARATUS AND METHOD FOR FORMING PLASTIC FILM
Howard G. Rogers, Brookline, Mass., assignor to Polaroid Corporation, Dover, Del., a corporation of Delaware
Application January 15, 1941, Serial No. 374,512
35 Claims. (Cl. 91—36)



1. Apparatus for coating a non-planar surface, comprising, in combination, holder means for an element having a non-planar surface, means for pivotally mounting said holder means for motion about a predetermined axis, means for pivotally mounting said mounting means for motion about an axis substantially perpendicular to said first named axis, means for oscillating said holder means on said first named axis, means for simultaneously moving said mounting means on said second named axis, means providing a coating element, and means for causing said coating element to bear with relatively even force against the surface of an element held in said holder means.

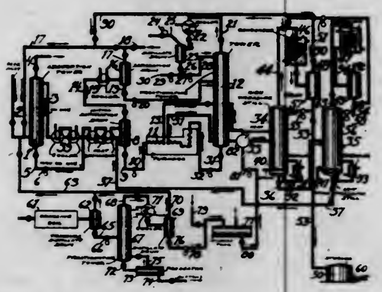
2,284,591
NEBULIZER
William H. Rose, Jersey City, N. J., assignor to Stanco Incorporated, a corporation of Delaware
Application November 24, 1939, Serial No. 305,949
8 Claims. (Cl. 299—88)



6. A liquid nebulizer device comprising a body member, a closure at one end of said member having a discharge outlet therein, a pressure element at the other end of said member and a core of an absorbent, air-pervious material disposed within said body member through a sub-

stantial portion of the length thereof, the lower end of said core abutting against the closure, a substantially unobstructed air passage extending longitudinally a major portion of the length of said core and ending adjacent the lower end thereof, adapted to permit the unobstructed flow of pressure air along said air passage, and its discharge from the closure outlet, the pressure air passing through the outer end of the core, picking up fine particles of absorbed liquid in the passage.

2,284,592
REFINING OF MINERAL OILS
Walter H. Rupp, Elizabeth, and Kenneth E. Thorp, Union, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application March 23, 1940, Serial No. 325,498
2 Claims. (Cl. 196—8)

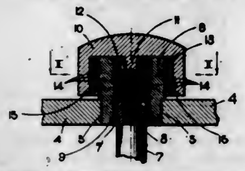


1. Process for the recovery and segregation of hydrocarbons containing three carbon atoms in the molecule and fractions containing four carbon atoms in the molecule derived in the cracking of petroleum oils comprising passing the cracked distillate to a separation zone, removing uncondensed gases in said separation zone and contacting the same in an absorption zone with absorption oil under conditions to substantially completely remove from said gases hydrocarbons containing four carbon atoms in the molecule, removing said distillate from said separation zone and distilling the same in a manner to substantially completely remove overhead hydrocarbons containing three carbon atoms in the molecule, cooling said overhead and passing the same to a separation zone, removing uncondensed gases and processing the same in said absorption zone, removing condensate and passing the same to a high pressure fractionating tower, withdrawing rich absorption oil from said absorption zone, passing the same to said high pressure fractionating tower operated under conditions adapted to substantially completely remove hydrocarbons containing three carbon atoms from said absorption oil, removing said hydrocarbon fractions containing three carbon atoms in the molecule overhead from said high pressure fractionating tower and substantially completely condensing the same at the pressure maintained in said high pressure fractionating tower by cooling to atmospheric temperature, withdrawing said absorption oil free of hydrocarbons containing three carbon atoms in the molecule from said high pressure fractionating tower and processing the same in subsequent distillation equipment adapted to remove and recover the dissolved hydrocarbons from said absorption oil, recycling said absorption oil to said absorption tower.

2,284,593
PROCESS FOR DECOLORIZING SOLUTIONS
Max Seidel, Solln, Germany
No Drawing. Application August 3, 1938, Serial No. 222,919. In Germany August 12, 1937
3 Claims. (Cl. 210—62)

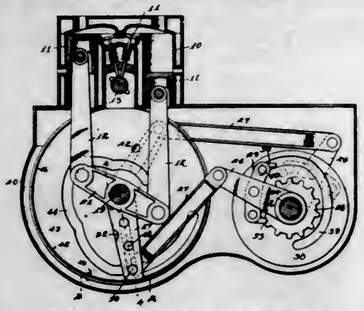
1. In a cyclic process for decolorizing aqueous solutions, the steps comprising treating the solutions at normal temperature with lignin obtained in the saccharification of wood with dilute acid, then treating the lignin with hot wood sugar wort to regenerate such lignin and then employing the regenerated lignin for decolorizing further solutions.

2,284,594
AIR AND WATER TIGHT WATCH STEM
Otto Schmitz, Grenchen, Switzerland
Application April 16, 1941, Serial No. 388,887
In Switzerland May 20, 1940
1 Claim. (Cl. 58—90)



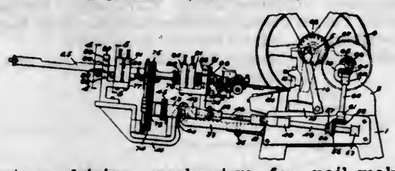
An air and water-tight stem construction for watches comprising a watch casing having an opening therein and adapted to receive a watch movement, a stem for said movement, a tubular element fixed to said casing at said opening receiving said stem freely, a coupling socket secured to said stem also received freely in said tubular element, a hollow crown for said stem, a stud provided upon said hollow crown also secured to said coupling socket, said coupling socket having a shoulder thereon and an air and watertight packing of compressible material compressed between said shoulder upon said coupling socket and the bottom of the crown cavity.

2,284,595
ENGINE TRANSMISSION DEVICE
John H. Sissel, Rock Island, Ill.
Application September 25, 1940, Serial No. 358,232
4 Claims. (Cl. 74—117)



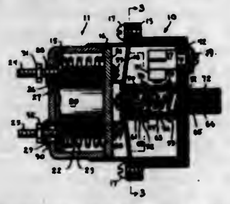
1. A power transmission apparatus, comprising a rock shaft, a driven shaft, means for transmitting the rocking motion of the engine shaft into continuous rotary motion applied to the driven shaft, comprising two ratchet wheels fixed to the driven shaft, two crank arms pivotally mounted on the driven shaft, a spring actuated pawl carried by each crank arm and engaging the adjacent ratchet wheel, two cranks fixed to the rock shaft, connecting rods pivoted to said cranks, and means for manually moving the connecting rods toward or from the engine shaft for gear shift purposes, comprising a disc rotatably mounted on the engine shaft and formed with a cam slot and also having a circular groove on one face and cams in said groove, a spring arm adjacent each crank arm on the engine shaft and having a series of openings therein and having one end extended into said circular groove, a pin carried by and movable longitudinally in the crank arm and having one end in said cam slot and its other end in one of the openings in the spring arm, the cams in said groove being shaped to spring the arms away from the pin and to permit the spring arm to return and enter another opening in the spring arm.

2,284,596
ROTARY FEEDER FOR NAIL-MAKING MACHINES
J. Henry Snell, Brockton, Mass.
Application June 13, 1940, Serial No. 340,255
1 Claim. (Cl. 10—171)



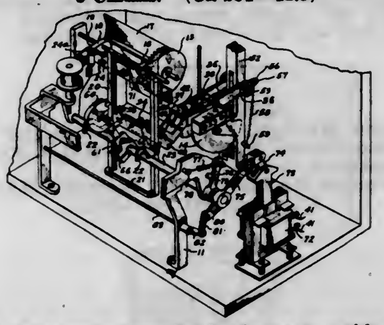
Rotary driving mechanism for nail-making machines of the kind described, comprising a blank-holder capable of continuous rotation thru 360°, circular bearings for said holder, guides for said circular bearings permitting raising and lowering of said holder during continuous rotation thereof, a gear secured to said holder, a driving gear meshing with said first-named gear, means to maintain said two gears in mesh during raising and lowering of the holder, a driving gear laterally in mesh with said second gear, and means to rotate said driving gear from the source of power actuating the nail-making instrumentalities, and a universal joint connection between said power-actuating means and the laterally positioned driving gear.

2,284,597
SAFETY SWITCH
Hubert T. Sparrow, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application July 31, 1940, Serial No. 348,705
11 Claims. (Cl. 200—87)



1. In combination, a pair of switch elements biased into a first circuit controlling position and so that portions thereof tend to move together, a pair of members each adapted to enter between said portions of said elements and move them apart to move said switch elements to a second circuit controlling position, means for continuously biasing a first of said members to a position between said elements, and releasable holding means for retaining said first member in a position spaced from said elements, said holding means comprising an electromagnet and an armature one of which is fixedly mounted and the other of which is connected to said first member, said other member being so disposed with respect to said first member that movement of said other member in one direction is effective to cause it to enter between said portions of said switch elements and simultaneously to move said first member so as to move said electromagnet and armature together.

2,284,598
TIME RECORDER MECHANISM
Elmer G. Streckfuss, Cincinnati, Ohio, assignor to The Cincinnati Time Recorder Company, Cincinnati, Ohio, a corporation of Ohio
Application July 15, 1938, Serial No. 219,438
3 Claims. (Cl. 234—41.5)

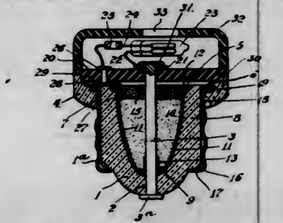


1. In a time recorder having a movable card tray, a card abutment movable vertically with reference to the tray, said abutment presenting a horizontal support to a card inserted in the tray and being so mounted as to move with said horizontal support always in a horizontal position, a member movable in accordance with time for moving said abutment, a lever engaged by the last named member, and serving as a movable support for said card abutment, the said lever comprising two members resiliently held together and having a slight relative movement in response to vertical pressure on said abutment; an electric switch associated with said two members, and arranged to be placed into operation upon said slight relative movement, said switch being connected as part of the circuit of a printing device.

2,284,599
MULTIPLE FUSE
Herman Altschule, Newark, N. J., assignor to Utility Electric Corp., East Newark, N. J., a corporation of New Jersey
Application February 24, 1941, Serial No. 380,122
3 Claims. (Cl. 200—125)

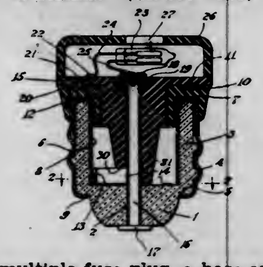
2. In a multiple fuse plug, a base partly enclosing a chamber and having a flaring rim with a first annular groove therein surrounding the opening of the chamber and a second annular groove adjacent the first groove and having a plurality of openings through the flaring rim, there being corresponding vertical grooves in the inside surface of the chamber extending from the first annular groove to the bottom; a screw-threaded metal shell surrounding the base and having prongs projecting through said perforations into the second groove; a spider of fusible

material having a leg in each vertical groove with the free ends projecting into the first annular groove; a rotatable cover for said base seated on the rim; a connector fastened to said cover and having two wipers, one projecting within the first and the second within the second annular



groove; a rivet projecting through and holding together the base, spider and cover, arc-quenching material filling the chamber; a resistor connected with said connector; and an electric lamp having two lead-in wires, one connected with said rivet and the second with said resistor.

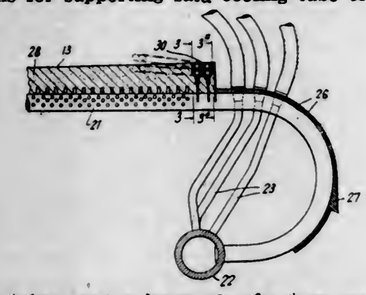
2,284,600
MULTIPLE FUSE
Herman Altschule, Newark, N. J., assignor to Utility Electric Corp., East Newark, N. J., a corporation of New Jersey
Application February 24, 1941, Serial No. 380,123
3 Claims. (Cl. 200—125)



1. In a multiple fuse plug, a base and a rotatable cover enclosing a chamber; a plurality of fusible links within said chamber; a shell outside said base contacting with the fusible links; a rivet projecting through the base into the chamber; an annular yoke on the rim of the base; a metal ring on said yoke; a connection between the ring and shell; a wiper mounted on said rivet in said chamber and arranged to engage in succession the fusible links; a resistor contacting with said ring and rotatable with the cover; and an electric lamp connected between said resistor and rivet.

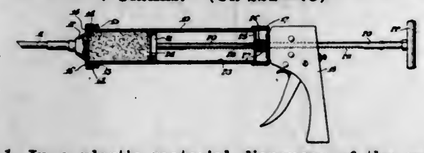
2,284,601
STEAM GENERATOR
Rolfe Shellenberger, Westfield, N. J., and Edward M. Freeman, North Pelham, N. Y., assignors to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application July 31, 1940, Serial No. 348,772
10 Claims. (Cl. 122—235)

3. A furnace for burning finely divided solid fuel under slagging temperatures comprising a floor constructed to receive and support slag in a molten condition and discharge the same at one end thereof, a row of transversely spaced water tubes extending longitudinally of said floor, a fluid cooled dam extending transversely of said floor adjacent the discharge end thereof and including a transversely extending cooling tube, means for supporting said cooling tube on said



floor tubes, and a layer of refractory material covering said floor tubes in front of said dam.

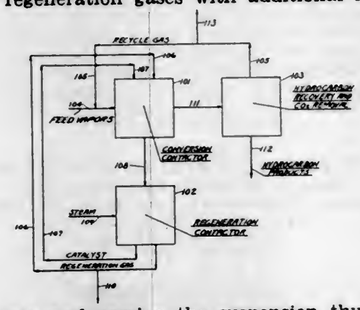
2,284,602
PLASTIC MATERIAL DISPENSER
Edward D. Skinner, Philadelphia, Pa., assignor to Kenmar Manufacturing Company, Philadelphia, Pa., a copartnership composed of Robert Calhoun, Jr., and Vincent E. Dewees
Application February 21, 1940, Serial No. 320,026
7 Claims. (Cl. 221—78)



1. In a plastic material dispenser of the prefilled cartridge type employing a cartridge which is fully open at both ends, a cylinder adapted to receive the cartridge in frictional contact therewith, a piston reciprocable therein, a piston rod upon the end of which said piston is mounted, a cap member removably mounted on the front end of the cylinder, a discharge nozzle carried by said cap member, said cap member also having a peripheral rim and an internal shoulder adjacent said rim, a resilient washer seated on said shoulder, and means engaging the rear end of the cartridge shell for holding the forward end thereof against said washer and for partially expelling the empty cartridge shell when the cap member is removed from the front end of the cylinder.

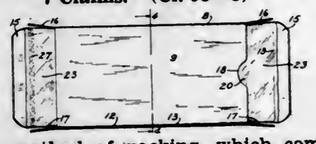
2,284,603
PROCESS FOR THE CATALYTIC CONVERSION OF HYDROCARBONS
Arnold Belchetz, Kew Gardens, and Duncan Kenneth Finlayson, Hartsdale, N. Y., assignors to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application February 2, 1940, Serial No. 316,908
5 Claims. (Cl. 196—52)

4. A method of catalytically converting hydrocarbon fractions which comprises passing a gaseous stream including hydrogen and vapors of the hydrocarbons undergoing treatment and having a finely divided catalyst suspended therein through a reaction zone maintained under conversion conditions, separating the used catalyst from the gaseous conversion products, forming a suspension of the separated catalyst in steam, passing the suspension through a regeneration zone maintained under conditions favorable to the reaction of steam with carbon to form hydrogen, carbon dioxide, and a minor proportion of carbon monoxide, mixing products of regeneration including the regenerated catalyst and regeneration gases with additional hydro-



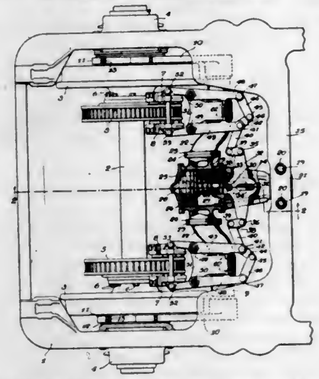
carbons, and passing the suspension thus produced to the reaction zone.

2,284,604
ART OF PACKING
William H. Brooks, Wauwatosa, Wis., assignor to Milprint, Inc., Milwaukee, Wis., a corporation of Wisconsin
Application April 22, 1940, Serial No. 330,853
7 Claims. (Cl. 93—3)



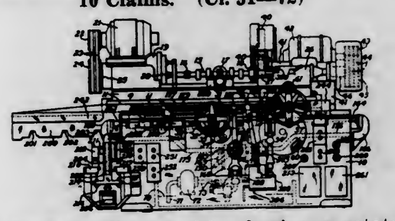
1. The method of packing, which comprises, permanently attaching a relatively impervious and flexible flat sheet to the inside of a flat foldable cardboard blank along local longitudinal and transverse areas disposed entirely within and remote from the marginal edge of the sheet, folding the blank into box formation while causing the opposite side edges of the liner sheet to protrude and overlap, heat sealing the protruding sheet edges to form a tube and firmly confining the seam between adjacent overlapped wall portions of the box, and sealing the opposite ends of the tube to confine material therein.

2,284,605
BRAKE MECHANISM
Carolus L. Eksergian and Paul W. Gaenssle, Detroit, Mich., assignors to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania
Application July 10, 1940, Serial No. 344,650
9 Claims. (Cl. 188—153)



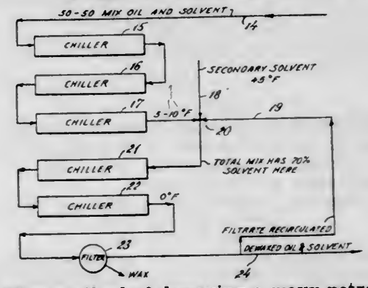
1. In a brake mechanism, a truck, an axle carried thereby, and a wheel mounted on the axle, a brake disc rotating with the wheel, two brake shoes, one operatively associated with each face of said disc, a transverse support pivoted about the axis of the axle, means carried by the truck for preventing movement of the said support about its pivot, a fluid-pressure actuated device comprising a cylinder forming a stress-carrying structural part of said support, and having a piston therein, and means operatively connecting said piston to both said brake shoes, whereby the said shoes will be forced against the respective faces of the disc when fluid under pressure is supplied to the cylinder.

2,284,606
CAMSHAFT BEARING GRINDING MACHINE
Carl G. Flygare and Charles C. Alvord, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application October 13, 1939, Serial No. 299,252
10 Claims. (Cl. 51—72)



1. In a grinding machine having a rotatable grinding wheel, a transversely movable slide to support said wheel, a longitudinally reciprocable table, a rotatable work support thereon including a headstock and a footstock, automatically actuated feed mechanism to feed said slide transversely, means including a table actuated reversing lever to traverse said table longitudinally in either direction, an automatically actuated work steadying rest having a movable work steadying shoe, and electrically operated control means including a limit switch automatically actuated by and in timed relation with the longitudinal movement of said table automatically to move said shoe into operative engagement with the work when the table is moved to a predetermined position.

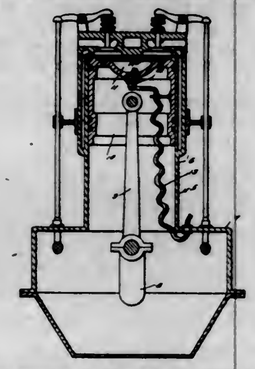
2,284,607
METHOD OF DEWAXING OIL
Courtenay D. Marshall, Beaumont, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application October 3, 1941, Serial No. 413,427
3 Claims. (Cl. 196—18)



1. That method of dewaxing a waxy petroleum oil stock comprising the steps of admixing with

the waxy oil a dewaxing solvent in amount sufficient to maintain the mixture in fluid condition at temperatures near but somewhat above final dewaxing temperature, chilling the mixture to a temperature near but above the final dewaxing temperature, adding a second portion of solvent which is at a temperature substantially above that of the chilled mixture, chilling the so-formed mixture to final dewaxing temperature and separating the wax therefrom.

2,284,608
ENGINE
Verne O. Martin, Fort Peck, Mont.
Application February 15, 1941, Serial No. 379,120
2 Claims. (Cl. 123—191)



1. In an engine including a cylinder and means for introducing fuel into the cylinder and means for allowing exhaust to escape therefrom, a reciprocal piston in said cylinder and having a cavity in the wall thereof opposite an end wall of the cylinder in which the fuel is compressed, and a spark plug having its spark gap in the cavity for igniting the fuel within the cavity to permit the initial expansion of the fuel to be on the reactionary principle directly against the piston with the further expansion of the fuel in the cylinder against the walls of said cylinder and the piston.

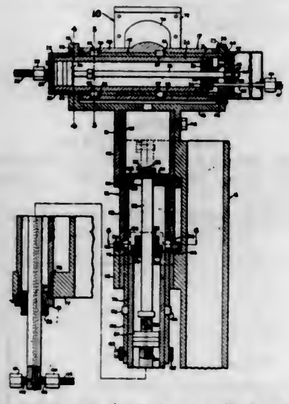
2,284,609
TREATMENT OF FIBROUS MATERIALS
Paul C. Schroy, Darien, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application January 17, 1939, Serial No. 251,337
12 Claims. (Cl. 8—136)

12. A process of crease proofing fibrous materials which comprises treating said materials with a mixture containing a melamine-formaldehyde resin and N-ethanol stearamide.

2,284,610
DISPERSION OF PIGMENTS IN RUBBER
Harold A. Sweet, Westfield, N. J., assignor to General Dyestuff Corporation, New York, N. Y., a corporation of New York
No Drawing. Application September 20, 1937, Serial No. 164,757
1 Claim. (Cl. 260—4)

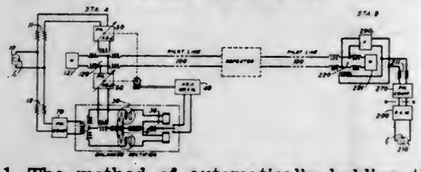
The process of uniformly coloring vulcanizable rubber which consists in milling in the dry state about 1 to 2 parts of a water-insoluble color with about 1 part of a polyisobutylene selected from the class consisting of those having a molecular weight of 60,000 to 80,000 and blends thereof with a polyisobutylene having a molecular weight of from 12,000 to 16,000 in which the higher polymer constitutes at least 50% of the blend, and blending the resulting product with 10 to 94 times its weight of vulcanizable rubber.

2,284,611
REMOTELY CONTROLLED GUN MOUNT
George E. Barnhart, Pasadena, Calif.
Application November 14, 1939, Serial No. 304,335
12 Claims. (Cl. 89—41)



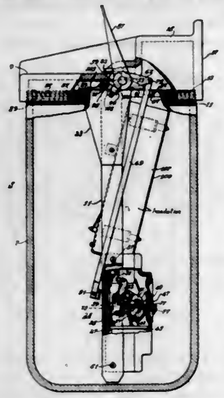
1. In a gun mount, a support, a cylindrical housing swivelled on said support, hydraulic piston operated means in said housing, means operated by said piston means for rotating said housing, a base surmounting said housing, a cylinder on said base, a tilting housing member having a gun base rotatably mounted on said housing, other hydraulic operated piston means on said cylinder, means operated by said other piston means for rotating said housing member, a sight member and hydraulic means operated by said piston means for shifting the sight member.

2,284,612
PHASE CONTROL IN ELECTRICAL TRANSMISSION
Estill Ibbotson Green, Short Hills, N. J., and Newton Monk, New York, N. Y., assignors to American Telephone and Telegraph Company, a corporation of New York
Application January 6, 1940, Serial No. 312,792
14 Claims. (Cl. 178—44)



1. The method of automatically holding the phase change of a transmission line constant which comprises transmitting an alternating current of one frequency over the line from the near end to the far end and back over the line from the far end to the near end, and automatically balancing the phase of the returned current with that of the current as originally transmitted adjusted to include the normal phase shift of the line.

2,284,613
EXPLOSIONPROOF CIRCUIT INTERRUPTING APPARATUS
Merritt A. Hyde, Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 5, 1940, Serial No. 312,508
31 Claims. (Cl. 200—50)

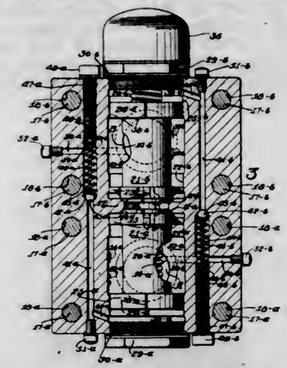


1. In combination, a housing comprising two sections having annular portions which are threadedly engaged, locking means disposed adjacent one of said annular portions, movable operating means on one of said sections, said operating means having a part movable thereby engageable with said locking means when said operating means is in one position to prevent unscrewing of said sections, said part being clear of said locking means in a second position of said operating means to permit unscrewing of said sections, and means operable upon unscrewing movement of said sections to effect locking of said operating means in said second position, said last-named means comprising a locking element mounted for movement relative to said sections which element clears said operating means when the sections are screwed together but which is effective to engage and lock said operating means in said second position as a result of unscrewing movement of said sections.

2,284,614
PROCESS FOR IMPROVING CELLULOSE PRODUCTS
Johann Joseph Stoeckly, Teltow-Seehof, and Elmar Profft, Berlin-Lichterfelde, Germany, assignors to North American Rayon Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application November 12, 1938, Serial No. 240,174. In Germany November 12, 1937
4 Claims. (Cl. 8—120)

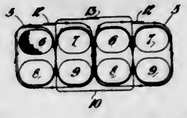
1. In a process of treating cellulose products of the group consisting of artificial silk, cellulose wool, and artificial horse hairs, the steps which comprise treating a regenerated cellulose with an aqueous solution of an aromatic base and subsequently reacting the treated cellulose with a non-aqueous solution of a halogenide of a fatty acid having at least eight carbon atoms, said aqueous solution containing about 1 to 2% by weight of said base and said non-aqueous solution containing about 0.75 to 1% by weight of said halogenide.

2,284,615
VALVE FOR HYDRAULIC POWER-TRANSMISSION SYSTEMS
Aaron R. Kligman, Philadelphia, Pa.
Application August 8, 1939, Serial No. 288,919
9 Claims. (Cl. 277—20)



1. Duplex relief valve means for closed circuit type of hydraulic power transmission systems or the like, comprising a pair of similar main valve chambers in direct communication with each other, a similar main valve unit slidably disposed within each of said main valve chambers and having a spring associated therewith urging it into a closed position in the direction of the other valve chamber, whereby each of said valve units will tend, at least partially under the influence of its spring, to shut off communication between said two valve chambers, a piston associated with each of said valve units and being slidably fitted within a cylindrical portion formed in continuation of each of said main valve chambers, a restricted by-pass for establishing communication between opposite sides of each of said pistons with a restricted rate of flow through such by-pass, an adjustable stop for limiting the opening-one of said main valves, a pair of similar pilot valve chambers each having a spring-pressed check valve therein of an effective hydraulic area substantially less than the effective hydraulic areas of the aforesaid main valves, each of said pilot valve chambers communicating on the spring side thereof with one of said main valve chambers intermediate the main valve and the piston in such main valve chamber and communicating on the other side thereof with the other main valve chamber on the side of the piston therein farthest from the main valve thereof, and a main fluid passageway extending from each of said main valve chambers from a point intermediate the main valve and the piston therein.

2,284,616
MEANS FOR AND METHOD OF ASSEMBLING METALLIC ARTICLES AND THE LIKE FOR SHIPMENT
Don F. Hedges, Gary, Ind.
Application May 13, 1941, Serial No. 393,295
8 Claims. (Cl. 214—10.5)



1. A shipping unit for shipment of longitudinally extending metallic articles and the like

comprising a plurality of bundles arranged in a row, in side by side relationship upon the transportation vehicle and with one row placed on top of the other, means arranged between each of said bundles for spacing the same from each other, a continuous binding means arranged around a number of said bundles adjacent each end thereof whereby there is provided a plurality of individual units with each of said units consisting of a plurality of bundles firmly bound together by said binding means, said binding means passing around and between at least two bundles of the lower row and two bundles of the upper row so that said bundles are firmly bound together to form a unit, and another binding means extending down between the bundles of the lower and upper rows of adjacent units whereby the units and bundles are firmly bound together and are adapted to be held securely in position so as to prevent movement of the units and the bundles relative to each other and to the vehicle during transit.

DESIGNS

MAY 26, 1942

132,509
DESIGN FOR A MASK FOR STUFFED TOYS OR SIMILAR ARTICLES
Jacob Swedlin, Brooklyn, N. Y.
Application February 17, 1942, Serial No. 105,842
Term of patent 14 years



The ornamental design for a mask for stuffed toys or similar articles, substantially as shown.

132,510
DESIGN FOR A MASK FOR STUFFED TOYS OR SIMILAR ARTICLES
Jacob Swedlin, Brooklyn, N. Y.
Application February 17, 1942, Serial No. 105,843
Term of patent 14 years



The ornamental design for a mask for stuffed toys or similar articles, substantially as shown.

132,511
DESIGN FOR A STUFFED TOY OR SIMILAR ARTICLE
Jacob Swedlin, Brooklyn, N. Y.
Application February 17, 1942, Serial No. 105,844
Term of patent 7 years



The ornamental design for a stuffed toy or similar article, substantially as shown.

132,512
DESIGN FOR A STUFFED TOY OR SIMILAR ARTICLE
Jacob Swedlin, Brooklyn, N. Y.
Application February 17, 1942, Serial No. 105,845
Term of patent 7 years



The ornamental design for a stuffed toy or similar article, substantially as shown.

132,513
DESIGN FOR A STUFFED TOY OR SIMILAR ARTICLE
Jacob Swedlin, Brooklyn, N. Y.
Application February 17, 1942, Serial No. 105,846
Term of patent 7 years



The ornamental design for a stuffed toy or similar article, substantially as shown.

132,514
DESIGN FOR A STUFFED TOY OR SIMILAR ARTICLE
Jacob Swedlin, Brooklyn, N. Y.
Application February 17, 1942, Serial No. 105,847
Term of patent 7 years



The ornamental design for a stuffed toy or similar article, substantially as shown.

132,515
DESIGN FOR A STUFFED TOY OR SIMILAR ARTICLE
Jacob Swedlin, Brooklyn, N. Y.
Application February 17, 1942, Serial No. 105,848
Term of patent 7 years



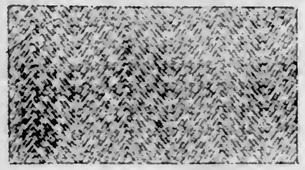
The ornamental design for a stuffed toy or similar article, substantially as shown.

132,516
DESIGN FOR A MASK FOR STUFFED TOYS OR SIMILAR ARTICLES
Jacob Swedlin, Brooklyn, N. Y.
Application March 23, 1942, Serial No. 106,279
Term of patent 14 years



The ornamental design for a mask for stuffed toys or similar articles, substantially as shown.

132,517
DESIGN FOR A TEXTILE FABRIC
Sol Weinberg, New York, N. Y.
Application April 3, 1942, Serial No. 106,445
Term of patent 3½ years



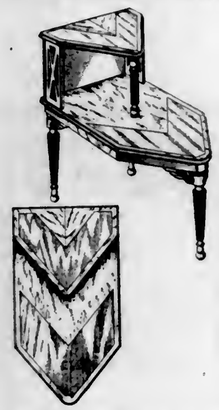
The ornamental design for a textile fabric, substantially as shown.

132,518
DESIGN FOR A COCKTAIL TABLE
Anthony O. Mattucci, Oak Park, Ill.
Application January 21, 1942, Serial No. 105,339
Term of patent 3½ years



The ornamental design for a cocktail table, substantially as shown.

132,519
DESIGN FOR A TABLE
Anthony O. Mattucci, Oak Park, Ill.
Application January 21, 1942, Serial No. 105,338
Term of patent 3½ years



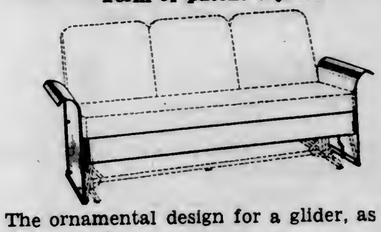
The ornamental design for a table, substantially as shown.

132,520
DESIGN FOR A CYCLOPLANE
Peter Tom Tomasini, Sunnyside, N. Y.
Application January 10, 1942, Serial No. 105,100
Term of patent 7 years



The ornamental design for a cycloplane, as shown and described.

132,521
DESIGN FOR A GLIDER
William I. Smith, Goshen, Ind., assignor to The Hettrick Manufacturing Company, Toledo, Ohio, a corporation of Ohio
Application January 4, 1941, Serial No. 97,813
Term of patent 7 years



The ornamental design for a glider, as shown and described.

132,522
DESIGN FOR AN URN
Edwin W. Fuerst and Charles W. Sawyer, Toledo, Ohio, assignors to Libbey Glass Company, Toledo, Ohio, a corporation of Ohio
Application September 25, 1941, Serial No. 103,484
Term of patent 7 years



The ornamental design for an urn, substantially as shown.

132,523
DESIGN FOR AN EARRING OR SIMILAR ARTICLE
Abraham Gerstenzang, New York, N. Y.
Application April 27, 1942, Serial No. 106,713
Term of patent 3½ years



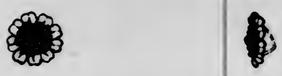
The ornamental design for an earring or similar article, substantially as shown.

132,524
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application April 23, 1942, Serial No. 106,675
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

132,525
DESIGN FOR AN EARRING OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application April 23, 1942, Serial No. 106,676
Term of patent 3½ years



The ornamental design for an earring or similar article, substantially as shown.

132,526
DESIGN FOR A JEWELRY FINDING
Adolph Katz, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application April 23, 1942, Serial No. 106,678
Term of patent 3½ years



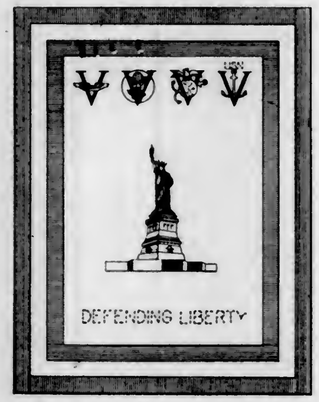
The ornamental design for a jewelry finding, substantially as shown.

132,527
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a corporation of New York
Application April 23, 1942, Serial No. 106,679
Term of patent 3½ years



The ornamental design for a brooch or similar article, subtantially as shown.

132,528
DESIGN FOR A BANNER OR SIMILAR ARTICLE
Robert C. Stephens, Covington, Ky.
Application January 28, 1942, Serial No. 105,488
Term of patent 3½ years



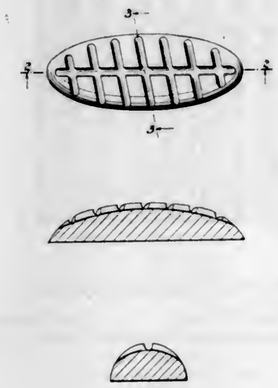
The ornamental design for a banner or similar article, as shown.

132,529
DESIGN FOR AN ENSIGN OR SIMILAR ARTICLE
Alfred Wolff, New York, N. Y.
Application December 16, 1941, Serial No. 104,656
Term of patent 3½ years



The ornamental design for an ensign or similar article, substantially as shown and described.

132,530
DESIGN FOR A COOKY
Marianne Zentner, Brooklyn, N. Y.
Application September 9, 1941, Serial No. 103,258
Term of patent 3½ years



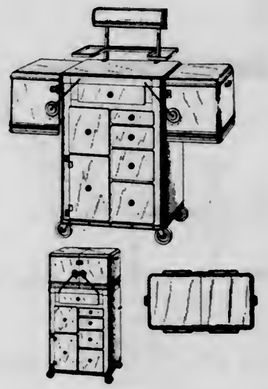
The ornamental design for a cooky, as shown.

132,531
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Michael Chernow, New York, N. Y.
Application March 6, 1942, Serial No. 106,104
Term of patent 7 years



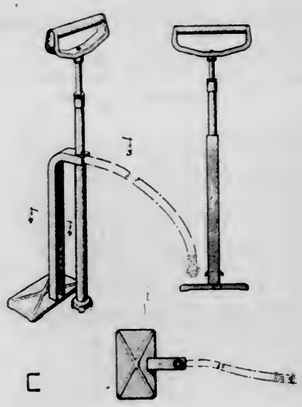
The ornamental design for a brooch or similar article, substantially as shown.

132,532
DESIGN FOR A COMBINATION CABINET AND TABLE
Andrew W. Junkunc, Chicago, Ill.
Application March 2, 1942, Serial No. 106,049
Term of patent 14 years



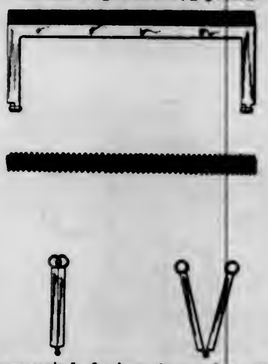
The ornamental design for a combination cabinet and table, as shown.

132,533
DESIGN FOR A STIRRUP PUMP
Daniel Kelleher, Strongsville, and Herman J. Troche, Cleveland Heights, Ohio, assignors to The American Coach & Body Company, Cleveland, Ohio, a corporation of Ohio
Application February 20, 1942, Serial No. 105,918
Term of patent 14 years



The ornamental design for a stirrup pump, substantially as shown and described.

132,534
DESIGN FOR A HANDBAG FRAME
Joseph A. Lichter, Norwalk, Conn.
Application July 29, 1941, Serial No. 102,540
Term of patent 3½ years



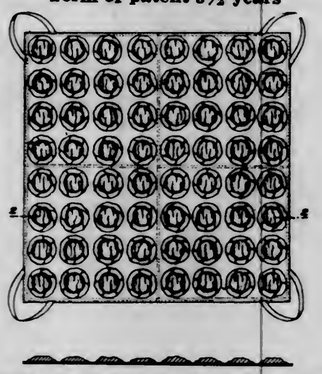
The ornamental design for a handbag frame, as shown.

132,535
DESIGN FOR A LAPEL BUTTON OR SIMILAR ARTICLE
John F. Lynch, Dorchester, Mass.
Application March 28, 1942, Serial No. 106,354
Term of patent 3½ years



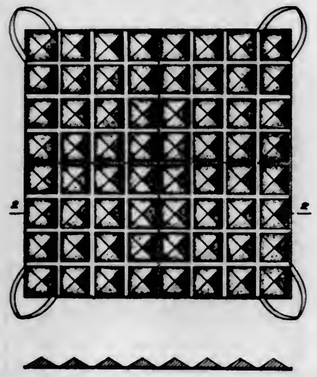
The ornamental design for a lapel button or similar article, as shown.

132,536
DESIGN FOR A FIRE EXTINGUISHER BLANKET
Gilbert J. Rhodes, New York, N. Y.
Application January 3, 1942, Serial No. 105,001
Term of patent 3½ years



The ornamental design for a fire extinguisher blanket, substantially as shown and described.

132,537
DESIGN FOR A FIRE EXTINGUISHER BLANKET
Gilbert J. Rhodes, New York, N. Y.
Application January 7, 1942, Serial No. 105,054
Term of patent 3½ years



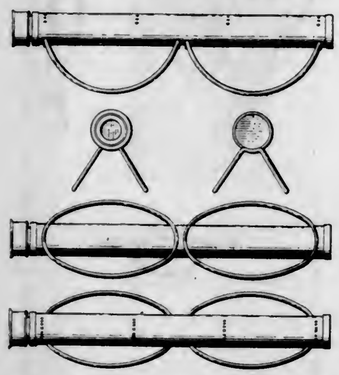
The ornamental design for a fire extinguisher blanket, substantially as shown and described.

132,538
DESIGN FOR AN EMBROIDERED LACE MEDALLION
Henry Schwarber, Weehawken, N. J.
Application March 10, 1942, Serial No. 106,125
Term of patent 3½ years



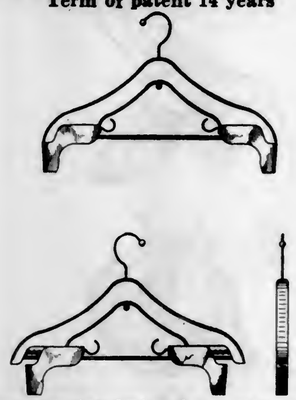
The ornamental design for an embroidered lace medallion, as shown.

132,539
DESIGN FOR A LAWN SPRINKLER
Walter M. Ware, Philadelphia, Pa.
Application March 19, 1942, Serial No. 106,247
Term of patent 14 years



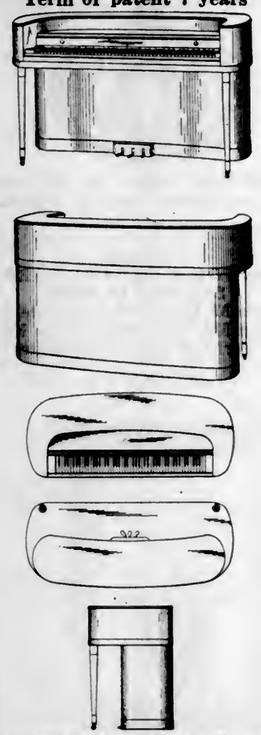
The ornamental design for a lawn sprinkler, as shown.

132,540
DESIGN FOR A GARMENT HANGER
Claude A. Bradley, Reno, Nev., assignor to Handy Hangers Corporation, Reno, Nev., a corporation of Nevada
Application March 17, 1941, Serial No. 99,644
Term of patent 14 years



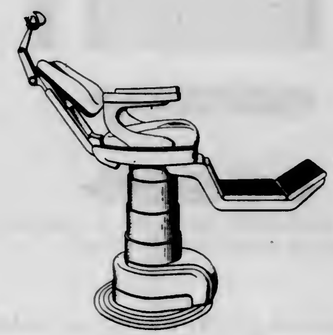
The ornamental design for a garment hanger, substantially as shown and described.

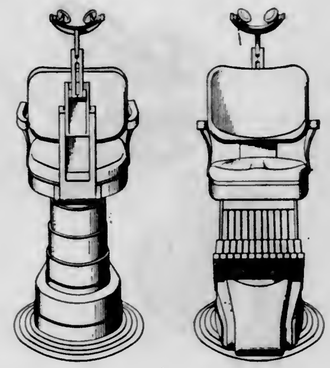
132,541
DESIGN FOR A PIANO
George W. Cushing, Newark, N. J., assignor to Krakauer Bros., New York, N. Y., a corporation of New York
Application March 4, 1942, Serial No. 106,071
Term of patent 7 years

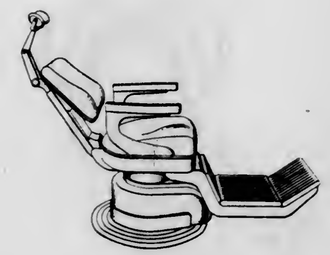


The ornamental design for a piano, as shown.

132,542
DESIGN FOR AN ADJUSTABLE CHAIR
Henry Dreyfuss, New York, N. Y., assignor to The S. S. White Dental Manufacturing Company, a corporation of Pennsylvania
Application October 9, 1941, Serial No. 103,699
Term of patent 14 years

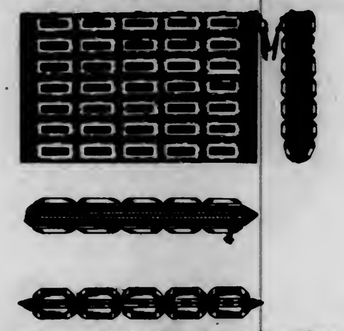






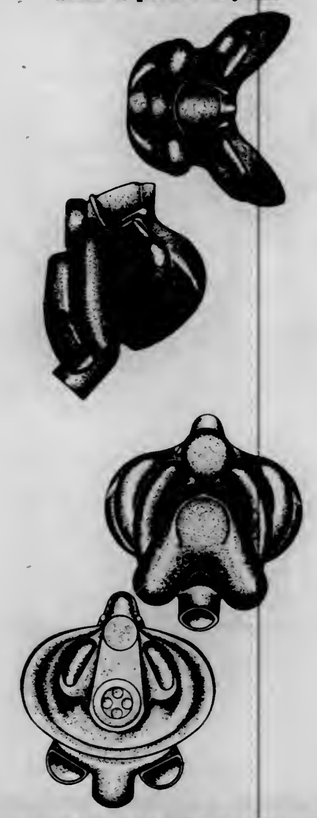
The ornamental design for an adjustable chair, as shown.

132,543
DESIGN FOR A HANDBAG
Murray Seltzer, New York, N. Y.
Application April 15, 1942, Serial No. 106,581
Term of patent 3½ years



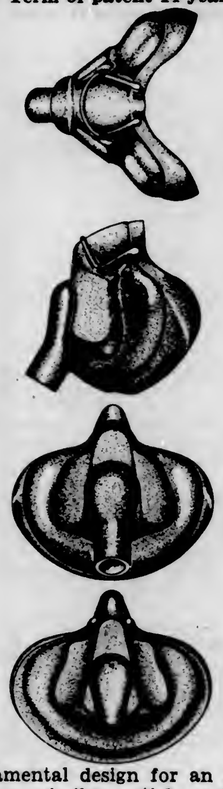
The ornamental design for a handbag, substantially as shown, and described.

132,544
DESIGN FOR AVIATOR'S OXYGEN MASK OR SIMILAR ARTICLE
Arthur H. Bulbulian, Rochester, Minn.
Application January 28, 1942, Serial No. 105,463
Term of patent 14 years



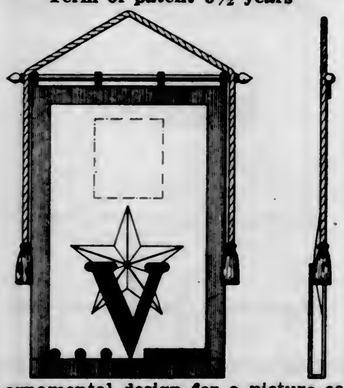
The ornamental design for an aviator's oxygen mask or similar article, substantially as shown.

132,545
DESIGN FOR AVIATOR'S OXYGEN MASK OR SIMILAR ARTICLE
Arthur H. Bulbulian, Rochester, Minn.
Application January 28, 1942, Serial No. 105,464
Term of patent 14 years



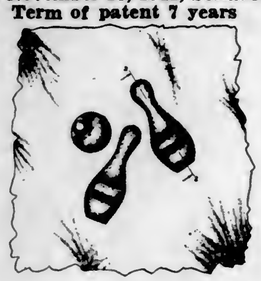
The ornamental design for an aviator's oxygen mask or similar article, substantially as shown.

132,546
DESIGN FOR A PICTURE CARRYING SERVICE PLAQUE
George M. Diehl, Pleasantville, N. J.
Application March 6, 1942, Serial No. 106,098
Term of patent 3½ years



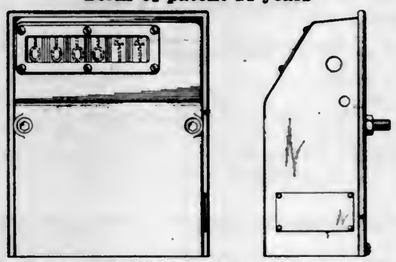
The ornamental design for a picture carrying service plaque, substantially as shown.

132,547
DESIGN FOR AN APPLIQUE FOR WEARING APPAREL
Emil H. Gottfried, Shaker Heights, Ohio, assignor to The Gottfried Company, Cleveland, Ohio, a corporation of Ohio
Application November 13, 1941, Serial No. 104,135
Term of patent 7 years



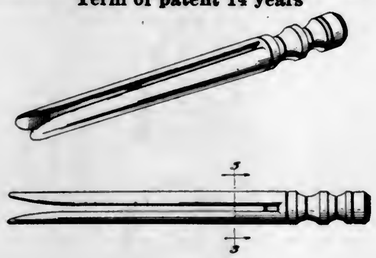
The ornamental design for an applique for wearing apparel, as shown.

132,548
DESIGN FOR A COUNTER
Max L. Jeffrey, Shaker Heights, Ohio
Application February 3, 1942, Serial No. 105,611
Term of patent 14 years



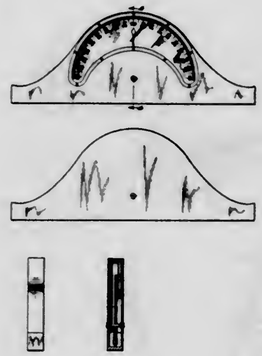
The ornamental design for a counter, as shown and described.

132,549
DESIGN FOR A HAIR CURLER
Armando Izquierdo Jordan, Habana, Cuba
Application March 9, 1942, Serial No. 106,118
Term of patent 14 years



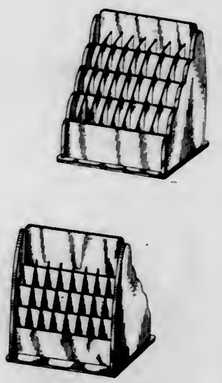
The ornamental design for a hair curler, as shown.

132,550
DESIGN FOR A PROTRACTOR LEVEL
Thomas W. Scifres, Crossett, Ark.
Application February 19, 1942, Serial No. 105,916
Term of patent 14 years



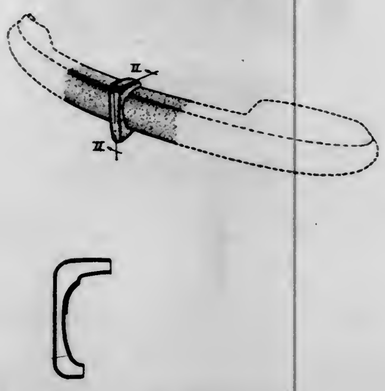
The ornamental design for a protractor level, as shown.

132,551
DESIGN FOR A DISPLAY CABINET FOR KNITTING NEEDLES, CROCHET HOOKS, OR THE LIKE
Ernest W. Slingsby, Deep River, Conn., assignor to C. J. Bates & Son, Chester, Conn., a firm composed of Hamilton C. Bates, Wells C. Bates, and Hamilton C. Bates, Jr.
Application March 17, 1942, Serial No. 106,216
Term of patent 7 years



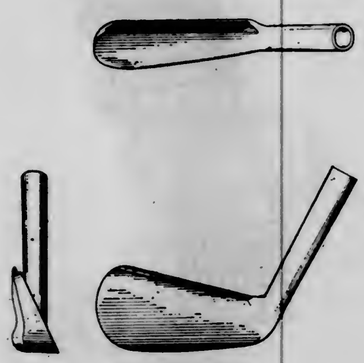
The ornamental design for a display cabinet for knitting needles, crochet hooks, or the like, as shown.

132,552
DESIGN FOR AN AUTOMOBILE BUMPER OR SIMILAR ARTICLE
George W. Walker, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application November 28, 1940, Serial No. 96,905
Term of patent 7 years



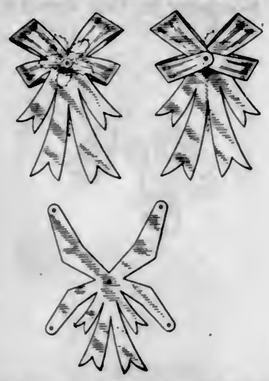
The ornamental design for an automobile bumper or similar article, as shown and described.

132,553
DESIGN FOR A GOLF CLUB HEAD
John Cowan, deceased, late of Belmont, Mass., by Jeanie Cowan, executrix, Belmont, Mass.
Application February 2, 1938, Serial No. 74,806
Term of patent 7 years



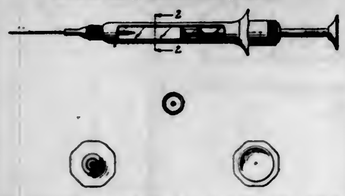
The ornamental design for a golf club head, as shown.

132,554
DESIGN FOR A LAPEL PIN OR SIMILAR ARTICLE
Max Kaplan, New York, N. Y.
Application February 4, 1942, Serial No. 105,624
Term of patent 14 years



The ornamental design for a lapel pin or similar article, substantially as shown and described.

132,555
DESIGN FOR A SYRINGE
Arthur E. Smith, Los Angeles, Calif.
Application March 6, 1942, Serial No. 106,102
Term of patent 14 years



The ornamental design for a syringe, as shown.

132,556
DESIGN FOR A GLASS DISPLAY CASE FOR DECORATIVE PURPOSES
Dixey Barry Carr, New York, N. Y.
Application March 11, 1942, Serial No. 106,157
Term of patent 3½ years



The ornamental design for a glass display case for decorative purposes, substantially as shown and described.

132,557
DESIGN FOR A DRESS
Minna Fields, New York, N. Y.
Application April 27, 1942, Serial No. 106,715
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,558
DESIGN FOR A DRESS
Joset Walker, New York, N. Y.
Application April 27, 1942, Serial No. 106,710
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,559
DESIGN FOR A VASE
Charles W. Sawyer, Toledo, Ohio, assignor to Libbey Glass Company, Toledo, Ohio, a corporation of Ohio
Application September 25, 1941, Serial No. 103,494
Term of patent 7 years



The ornamental design for a vase, substantially as shown.

132,560
DESIGN FOR A VASE
Charles W. Sawyer, Toledo, Ohio, assignor to Libbey Glass Company, Toledo, Ohio, a corporation of Ohio
Application September 25, 1941, Serial No. 103,504
Term of patent 7 years



The ornamental design for a vase, substantially as shown.

132,561
DESIGN FOR A SMOKING PIPE
William T. Clements, Charlotte, N. C.
Application March 12, 1942, Serial No. 106,171
Term of patent 14 years



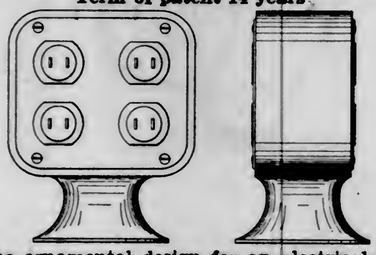
The ornamental design for a smoking pipe, substantially as shown.

132,562
DESIGN FOR A SHAMPOO PAN
Paula R. Keirle, St. Louis, Mo.
Application August 20, 1941, Serial No. 102,963
Term of patent 14 years



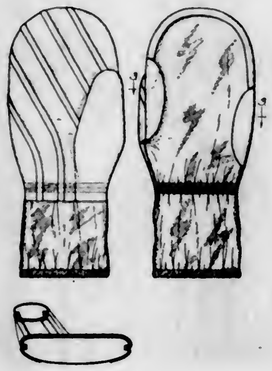
The ornamental design for a shampoo pan, as shown.

132,563
DESIGN FOR AN ELECTRICAL FLOOR OUTLET BOX
Jacob W. Lewin, Chicago, Ill.
Application February 23, 1942, Serial No. 105,952
Term of patent 14 years



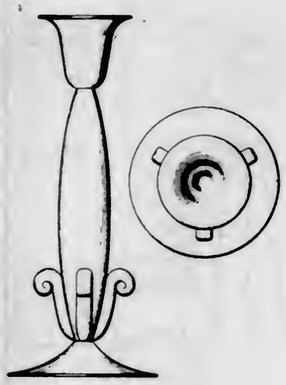
The ornamental design for an electrical floor outlet box, as shown and described.

132,564
DESIGN FOR A SKI MITT
Edward C. Lindfelt, Des Moines, Iowa
Application January 26, 1942, Serial No. 105,429
Term of patent 7 years



The ornamental design for a ski mitt, substantially as shown.

132,565
DESIGN FOR A CANDLE HOLDER
Charles W. Sawyer, Toledo, Ohio, assignor to Libbey Glass Company, Toledo, Ohio, a corporation of Ohio
Application September 25, 1941, Serial No. 103,495
Term of patent 7 years



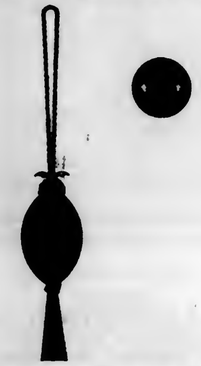
The ornamental design for a candle holder, substantially as shown.

132,566
DESIGN FOR A SUIT
Rubin Troffkin, New York, N. Y.
Application March 3, 1942, Serial No. 106,060
Term of patent 3½ years



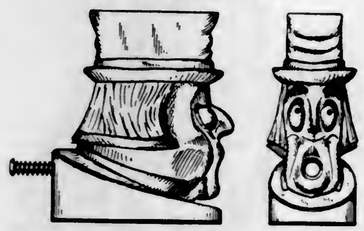
The ornamental design for a suit, substantially as shown.

132,567
DESIGN FOR A SACHET
Jean E. Vivaudou, New York, N. Y.
Application February 6, 1941, Serial No. 98,795
Term of patent 3½ years



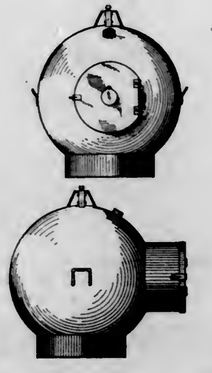
The ornamental design for a sachet, as shown and described.

132,568
DESIGN FOR A CIGARETTE DISPENSER
Edward Howell Bernstein, Melrose Park, Pa., assignor to Lewis P. Weil, Philadelphia, Pa.
Application January 29, 1942, Serial No. 105,493
Term of patent 7 years



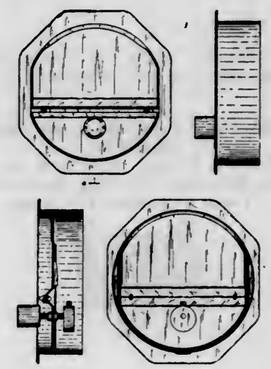
The ornamental design of a cigarette dispenser, as shown and described.

132,569
DESIGN FOR A LIQUID GAS TANK
Lon D. Turner, Denver, Colo., assignor to Eaton Metal Products Company, Denver, Colo.
Application January 5, 1942, Serial No. 105,028
Term of patent 7 years



The ornamental design for a liquid gas tank, as shown and described.

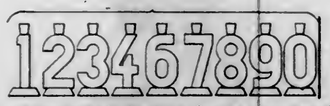
132,570
DESIGN FOR A DRAFT CONTROLLING DEVICE
Morris W. Crew, Cleveland, and Clarence H. Morrow, Shaker Heights, Ohio, assignors to The Hotstream Heater Company, Cleveland, Ohio, a corporation of Ohio
Application December 20, 1941, Serial No. 104,772
Term of patent 14 years



The ornamental design for a draft controlling device, as shown and described.

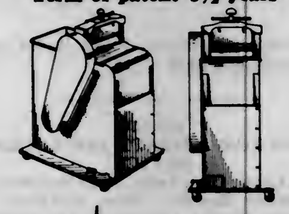
132,571
DESIGN FOR A NUMERAL SET OF CANDLE HOLDERS
Arno Scheinpflug, Woodside, N. Y.
Application July 30, 1941, Serial No. 102,568
Term of patent 14 years

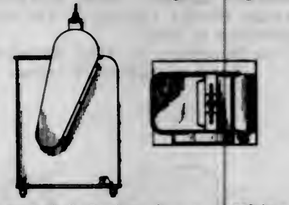




The ornamental design for a numeral set of candle holders, substantially as shown.

132,572
DESIGN FOR A COMBINED WASHING MACHINE AND WRINGER
Chester M. Cain, Amarillo, Tex.
Application August 12, 1940, Serial No. 94,372
Term of patent 3½ years

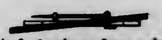




The ornamental design for a combined washing machine and wringer, substantially as shown.

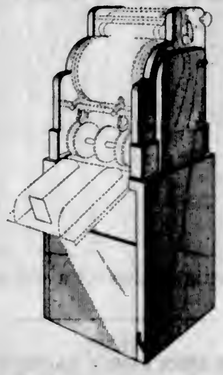
132,573
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Milton J. Landis, New York, N. Y.
Application December 29, 1941, Serial No. 104,892
Term of patent 3½ years

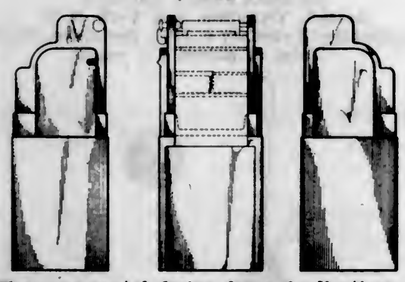




The ornamental design for a brooch or similar article, as shown.

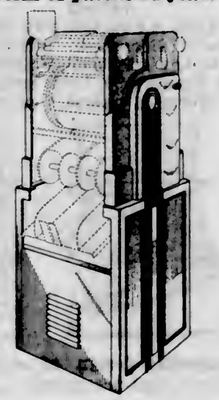
132,574
DESIGN FOR A DUPLICATING MACHINE OR SIMILAR ARTICLE
William Ward Davidson, Evanston, and Harry S. Scholl, Glen Ellyn, Ill.; said Scholl assignor to Davidson Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application April 3, 1941, Serial No. 100,117
Term of patent 14 years



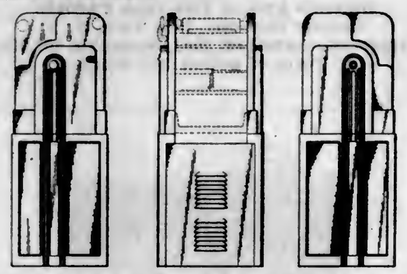


The ornamental design for a duplicating machine or similar article, substantially as shown.

132,575
DESIGN FOR A DUPLICATING MACHINE OR SIMILAR ARTICLE
William Ward Davidson, Evanston, and Harry S. Scholl, Glen Ellyn, Ill.; said Scholl assignor to Davidson Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application April 3, 1941, Serial No. 100,118
Term of patent 14 years

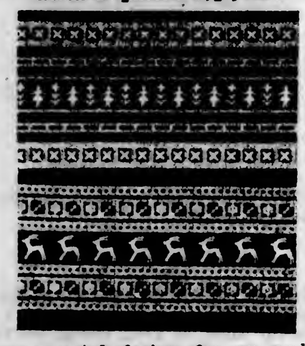


132,575—Continued



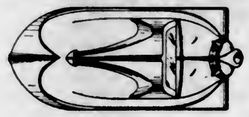
The ornamental design for a duplicating machine or similar article, substantially as shown.

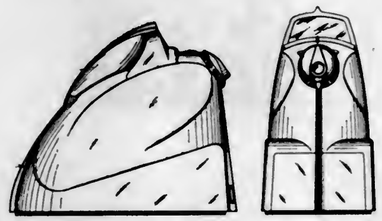
132,576
DESIGN FOR AN EMBROIDERED FABRIC
Barney Goldman, New York, N. Y.
Application May 1, 1942, Serial No. 106,768
Term of patent 3½ years



The ornamental design for an embroidered fabric, substantially as shown.

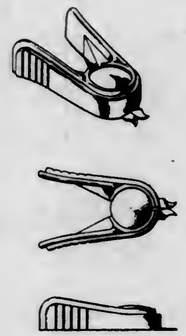
132,577
DESIGN FOR A PENCIL SHARPENER
Edward C. Hoffmann, University City, Mo., assignor to Triple "E" Products Company, St. Louis, Mo., a corporation of Missouri
Application October 16, 1941, Serial No. 103,784
Term of patent 14 years





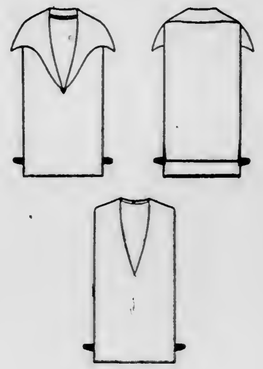
The ornamental design for a pencil sharpener, as shown.

132,578
DESIGN FOR A STAPLE REMOVER
Curt E. Nyberg, Chicago, Ill., assignor to Metal Specialties Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application September 29, 1941, Serial No. 103,549
Term of patent 14 years



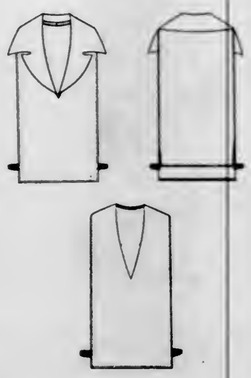
The ornamental design for a staple remover, as shown.

132,579
DESIGN FOR A VESTEE WITH DETACHABLE COLLAR
Anna Phillips, New York, N. Y.
Application July 19, 1941, Serial No. 102,315
Term of patent 7 years



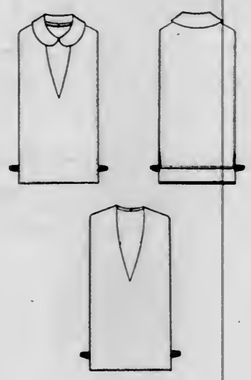
The ornamental design for a vestee with detachable collar, substantially as shown and described.

132,580
DESIGN FOR A VESTEE WITH DETACHABLE COLLAR
Anna Phillips, New York, N. Y.
Application July 19, 1941, Serial No. 102,316
Term of patent 7 years



The ornamental design for a vestee with detachable collar, substantially as shown and described.

132,581
DESIGN FOR A VESTEE WITH REMOVABLE DICKEY
Anna Phillips, New York, N. Y.
Application July 19, 1941, Serial No. 102,317
Term of patent 7 years



The ornamental design for a vestee with removable dickey, substantially as shown and described.

132,582
DESIGN FOR A TEXTILE FABRIC
Annette Boutemy, New York, N. Y.
Application April 30, 1942, Serial No. 106,756
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown.

132,583
DESIGN FOR A TEXTILE FABRIC
Annette Boutemy, New York, N. Y.
Application April 30, 1942, Serial No. 106,757
Term of patent 3½ years



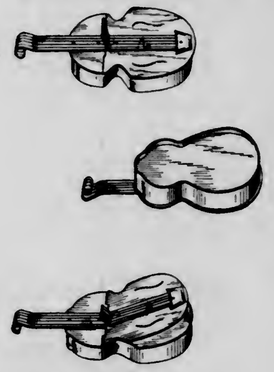
The ornamental design for a textile fabric, substantially as shown and described.

132,584
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Alberta M. Radcliffe, Forest Hills, N. Y., assignor to Mutual Buying Syndicate, Inc., New York, N. Y., a corporation of New York
Application February 12, 1942, Serial No. 105,776
Term of patent 3½ years



The ornamental design for a textile fabric or similar article, substantially as shown.

132,585
DESIGN FOR A BOX OR SIMILAR ARTICLE
Mitteldorfer Straus, Richmond, Va.
Application April 8, 1941, Serial No. 100,213
Term of patent 3½ years



The ornamental design for a box or similar article, as shown.

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CONTENTS

	Page
DECISIONS OF THE COMMISSIONER OF PATENTS, June 2, 9, 16, 23, 30	3, 241, 489, 741, 957
TRADE-MARKS PUBLISHED AND REGISTERED, June 2, 9, 16, 23, 30	11, 251, 497, 749, 973
REISSUES, June 2, 9, 16, 23, 30	39, 273, 523, 769, 999
PLANT PATENTS, June 2, 9, 16, 23, 30	40, 274, —, —, 999
PATENTS, June 2, 9, 16, 23, 30	41, 275, 526, 770, 1000
DESIGNS, June 2, 9, 16, 23, 30	223, 466, 720, 947, 1198

ANNOUNCEMENTS

	Page
ADVERSE DECISIONS IN INTERFERENCE	10, 487, 739
AMENDMENTS—Instructions re filing	239
APPLICATIONS—Condition of pending	2, 240, 488, 740, 956
BRIEFS IN APPEALED CASES	739, 955
BULLETIN OF DECISIONS ON TRADE-MARKS	964
CLASSIFICATION OF INVENTIONS—Changes in—*Order No. 3 632*	249
DISCLAIMERS—Allyn, William G	496
Anderson, Arvid E	1
Anderson, John W	239
Bacon, Dana H	963
Foss, Carl W	496
Grossmann, Paul	739
Hitch, Emmet F	963
Johnson, Harry L. (2 cases)	1
Johnson, Lambert D., et al	1
Johnson, Louis J	1
Johnston, Edward A	963
Keaton, Clyde D	496
Klipstein, Kenneth H	963
Knowlton, Cutler D	496
Lannerd, Paul U	963
Lefort, Theodore E	495
Lougovoy, Boris N	963
Maclean, Robt. S., et al	496
Madsen, Sern	496
Mead, Harry, et al	963
Mikeska, Louis A	1
Morden, Chas. W	496
Noble, Joyce J	739
Pasternack, Richard	239
Schrank, M. C., Co	1
Shaw, Burton E. (2 cases)	496, 963
Stow, Audley H. (4 cases)	1, 495, 496
Ward, Gilbert J	496
NOTICE—Board of Appeals—Decisions—Time for Response	955
PATENT SUITS	8, 248, 495, 747
PATENTS—List of adjudicated	10, 239, 487, 739, 955
TRADE-MARK REGISTRATIONS CANCELLED	487
Notice of cancellation	739, 955

508059

TABLE OF CASES REPORTED

	Page
*Edwards, In re	243
*Fisher, In re	489
*In re Guthans	961
*Hygrade Sylvania Corporation v. Sontag Chain Stores Co., Ltd.	6
*Loftin, assignee of Tubbs v. Smith	241
*Milcor Steel Company v. Geo. A. Fuller Co., Neff Lathing Company, Inc., and Conver Steel and Wire Co., Inc.	959
*Mishawaka Rubber and Woolen Manufacturing Company v. S. S. Kresge Company	957
*Muncie Gear Works, Inc., et al. v. Outboard, Marine & Mfg. Co. et al	3
*Normann and Pruckner v. Schmidt	741
*Pecheur Lozenge Co., Inc. v. National Candy Co., Inc.	3
*Reinecke v. Getz	745
*Steiner, In re	247
*Temple v. Littlehale	491

(Decisions of the United States Court of Customs and Patent Appeals are indicated by a star (*); and of the Supreme Court of the United States by the letter (*).)

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

A. S. G. Pipe Lining Co. (See Greenstein, Minnie.)

Abbott, C. W., & Company, Baltimore, Md. Aromatic bitters. Serial No. 440,140; June 2. Class 6.

Abbott Laboratories, North Chicago, Ill. Medicinal preparation. Serial No. 451,993; June 2. Class 6.

Abrahams, Joseph, doing business as Jaybra Company, London, England. Waterproof coats, raincoats, and overcoats. Serial No. 451,372; June 2. Class 39.

Adams, Charles, New Kensington, Pa. Beverages, and sirups and extracts for making the same. Serial No. 450,579; June 2. Class 45.

Air Reduction Sales Company, New York, N. Y. Gas cutting torches and tips. Serial No. 451,791; June 2. Class 34.

American Breddo Corporation, New York, N. Y. Dough stabilizer and improver. Serial No. 451,829; June 2. Class 46.

American Chain & Cable Company, Inc., Bridgeport, Conn. Abrasive cutting machine, exclusive of abrasive elements. Serial No. 452,301; June 2. Class 23.

American Crayon Company, The, Sandusky, Ohio. Crayons, dustless crayons, and blackboard erasers. Serial No. 451,700; June 2. Class 37.

American Machine and Metals, Inc., New York, N. Y. Laundry machines. Serial No. 451,479; June 2. Class 24.

American Saw & Mfg. Company, Springfield, Mass. Band saw blades. Serial No. 451,864; June 2. Class 23.

American Tar Company, Seattle and Spokane, Wash. Tar, tar and cresote, bitumen primer, etc. Serial No. 450,439; June 2. Class 12.

American Tar Company, Seattle and Spokane, Wash. Crude coal tar, marine pitch, coal tar pitch and asphalt. Serial No. 451,996; June 2. Class 1.

Ann Manufacturing Company, Granite Quarry, N. C. Textile diapers. Serial No. 452,065; June 2. Class 39.

Barclay, Jas., & Co. Limited, Peoria, Ill. Whiskey. Serial No. 452,210; June 2. Class 49.

Basic Refractories, Inc., Cleveland, Ohio. Refractory furnace lining preparations, bricks, and other shapes. Serial Nos. 450,611–12; June 2. Class 12.

Bega Brothers Products Corp., New York, N. Y. Sewing machine cabinets and benches. Serial No. 449,663; June 2. Class 32.

Bendix Aviation Corporation, Bendix, N. J. Accelerometers, indicators, altimeters, etc. Serial No. 451,925; June 2. Class 26.

Bendix, Jacob, New York, N. Y. Compounds used in the treatment of textile fibres and textile fabrics and articles made therefrom. Serial No. 452,344; June 2. Class 6.

Bercut-Richards Packing Company, Sacramento, Calif. Canned vegetables. Serial No. 451,458; June 2. Class 46.

Borgfeldt, Geo., Corporation, New York, N. Y. Christmas tree ornaments. Serial No. 452,213; June 2. Class 50.

Boyle, A. S., Company, The, Jersey City, N. J. Vitamin preparations. Serial No. 452,094; June 2. Class 6.

Bruce's Juices, Inc., Tampa, Fla. Fruit and vegetable extracts and juices. Serial No. 451,588; June 2. Class 46.

Campbell Soup Company, Camden, N. J. Canned pork and beans. Serial No. 452,095; June 2. Class 46.

Canada Dry Ginger Ale, Incorporated, New York, N. Y. Beverage. Serial No. 452,122; June 2. Class 45.

Cherry Growers, Inc., Traverse City, Mich. Fruits preserved in sugar. Serial No. 449,670; June 2. Class 46.

Chocolate Products Company, Chicago, Ill. Syrups, extracts, and concentrates for making chocolate beverages. Serial No. 451,927; June 2. Class 45.

Clark, Robert H., doing business as Tipstik Cosmetics, Los Angeles, Calif. Cosmetics. Serial No. 452,160; June 2. Class 6.

Companhia Gessy Industrial, Sao Paulo, Brazil. Soaps and scented soaps. Serial No. 451,261; June 2. Class 4.

Confection Products Co., Chicago, Ill. Candy. Serial No. 450,846; June 2. Class 46.

Congress Shirt Company, Boston, Mass. Sport jackets and parkas for use by men and young men. Serial No. 448,220; June 2. Class 39.

Consolidation Coal Company, New York, N. Y. Coal. Serial No. 451,837; June 2. Class 1.

Deming Company, The, Salem, Ohio. Water pumping systems. Serial No. 452,241; June 2. Class 23.

Dennis, Robert N., Brooklyn, N. Y. Viewing device for photographic and other transparencies. Serial No. 452,215; June 2. Class 26.

Denver Sewer Pipe and Clay Company, The, Denver, Colo. Sewer pipe, building bricks, fire bricks, etc. Serial No. 449,767; June 2. Class 12.

Dietzgen, Eugene, Co., Chicago, Ill. Drawing instruments and draftsmen's supplies. Serial Nos. 449,171–2; June 2. Class 26.

Dietzgen, Eugene, Co., Chicago, Ill. Drawing instruments and draftsmen's supplies. Serial Nos. 449,955–6; June 2. Class 26.

Ditto, Incorporated, Chicago, Ill. Cards or sheets of paper. Serial No. 452,125; June 2. Class 37.

Dreyfus, L. A., Company, Rosebank, Staten Island, N. Y. Chewing gum base not including chicle. Serial No. 446,102; June 2. Class 1.

Duplan Corporation, The, New York, N. Y. Silk, rayon, and cotton fabrics. Serial No. 450,623; June 2. Class 42.

Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Transparent sheeting of cellulosic composition. Serial No. 451,813; June 2. Class 50.

Edison, Ann L., New York, N. Y. Scarfpins, watch chains, cuff links, etc. Serial No. 452,190; June 2. Class 28.

Empire Crafts Corporation, Newark, N. J. Sterling silver flatware. Serial No. 451,437; June 2. Class 28.

Erven Lucas Bols Soc. de Resp. Ltda., Bella Vista, Argentina. Gin, cordials, and liqueurs. Serial No. 442,897; June 2. Class 49.

Even-Pul Foundations, Inc., New York, N. Y. Bandeaux and brassières. Serial No. 450,933; June 2. Class 39.

Factor, Max, & Co., Los Angeles, Calif. Cosmetics, perfumes, theatrical make-up, and similar preparations. Serial No. 451,968; June 2. Class 6.

Federbush Company, Inc., The, New York, N. Y. Loose leaf binders. Serial No. 450,197; June 2. Class 37.

Fisher Scientific Company, Pittsburgh, Pa. Laboratory beakers covers. Serial No. 449,340; June 2. Class 26.

Flashlight Company of America, Jersey City, N. J. Flashlights and dry cell batteries. Serial No. 451,532; June 2. Class 21

Fletcher, Mark, and Sons Limited, Lancashire, England. Cotton, wool, and rayon piece goods. Serial No. 448,289; June 2. Class 42.

Food Machinery Corporation, San Jose, Calif. Fresh citrus fruit. Serial No. 449,044; June 2. Class 46.

Four Corners, The, Cincinnati, Ohio. Shopping and knitting bags. Serial No. 452,039; June 2. Class 2.

Fox, M. Ewing, Co., Inc., New York, N. Y. Paints in paste form. Serial No. 450,832; June 2. Class 16.

Gardner-Richardson Company, Middleton, Ohio. Boxes and cartons. Serial No. 423,758; June 2. Class 2.

General Electric X-Ray Corporation, Chicago, Ill. Illuminating apparatus. Serial No. 447,908; June 2. Class 26.

Gillette Safety Razor Company, Boston, Mass. Safety razor blades. Serial Nos. 452,376–7; June 2. Class 23.

Glazer, William H., Philadelphia, Pa. Ophthalmic lenses and frames and instruments. Serial No. 452,245; June 2. Class 26.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Cushions, pillows, mattresses, etc. Serial No. 451,868; June 2. Class 32.

Gray Mills Co., Inc., Chicago, Ill. Circulating apparatus for a cooling medium used in cooling machine tools. Serial No. 451,839; June 2. Class 23.

Greenstein, Minnie, doing business as A. S. G. Pipe Lining Co., New York, N. Y. Lining cement for pipes and fittings. Serial No. 451,139; June 2. Class 12.

Harbor Plywood Corporation, Hoquiam, Wash. Plywood. Serial No. 437,622; June 2. Class 12.

Harland, John H., Company, Atlanta, Ga. Bank checks. Serial No. 451,840; June 2. Class 37.

Hitt-Luthy Co., Peoria, Ill. Water softener chemicals. Serial No. 441,869; June 2. Class 6.

Hobart Manufacturing Company, The, Troy, Ohio. Machines for grinding coffee, peanuts, etc., traps, etc. Serial No. 449,838; June 2. Class 23.

Hobart Manufacturing Company, The, Troy, Ohio. Electric coffee mills, electric coffee-refining mills, electric meat and food choppers, etc. Serial No. 451,598; June 2. Class 21.

Horner Woolen Mills Company, Eaton Rapids, Mich. Blankets. Serial No. 450,278; June 2. Class 42.

Hunt, Philip A. Company, Brooklyn, N. Y. Chemicals for developing photographic papers. Serial No. 452,102; June 2. Class 6.

Innis, Speiden & Co., New York, and Niagara Falls, N. Y. Ferric chloride. Serial No. 451,842; June 2. Class 6.

Insto-Gas Corporation, Detroit, Mich. Gas torches and plumbers furnaces. Serial No. 441,471; June 2. Class 34.

International Telephone and Radio Manufacturing Corporation, New York, N. Y. Electron discharge device of the high vacuum triode type. Serial No. 451,010; June 2. Class 21.

International Telephone and Radio Manufacturing Corporation, New York, N. Y. Monomeric styrene. Serial No. 451,896; June 2. Class 1.

Jacomar Limited, London, England. Silk and woolen goods in the piece. Serial No. 451,038; June 2. Class 42.
Janz, Ernest T., Chicago, Ill. Cough syrup. Serial No. 451,977; June 2. Class 6.
Jaybra Company. (See Abrahams, Joseph.)
Jayne, Dr. D., & Son, Inc., Philadelphia, Pa. Medicinal preparations. Serial No. 452,247; June 2. Class 6.
Keasbey & Mattison Company, Ambler, Pa. Fire-resistant building boards, insulating and sound deadening boards, etc. Serial No. 450,541; June 2. Class 12.
Kelite Products, Inc., Los Angeles, Calif. Cleaning powders, cleaning paste, cleaning fluids and soaps. Serial No. 451,681; June 2. Class 4.
Kleinert, I. B., Rubber Company, New York, N. Y. Shower curtains and matching shower curtains and window drapes. Serial No. 450,595; June 2. Class 13.
Leggett, Francis H., & Company, New York, N. Y. Borax. Serial No. 450,263; June 2. Class 6.
Leighton Tobacco Co., Inc., New York, N. Y. Tobacco, cigars, and cigarettes. Serial No. 452,222; June 2. Class 17.
Lenson, U. & J., Corp., The, New York, N. Y. Coffees. Serial No. 452,034; June 2. Class 46.
Leser, Tina, New York, N. Y. Hats and coats for men, women, and children and dresses for women and girls. Serial No. 441,513; June 2. Class 39.
Lien Bros. Packing Company, Inc., Stanwood, Wash. Canned vegetables. Serial Nos. 452,268–70; June 2. Class 46.
Lillybrook Coal Company, Beckley, W. Va. Coal. Serial No. 451,899; June 2. Class 1.
Lookout Oil & Refining Company, Chattanooga, Tenn. Cotton seed oil. Serial No. 450,803; June 2. Class 46.
Loose-Wiles Biscuit Company, Long Island City, N. Y. Food for domesticated carnivorous animals. Serial No. 452,326; June 2. Class 46.
Lundie, Norman Victor, Southport, England. Cosmetics. Serial No. 449,285; June 2. Class 6.
M. & M. Limited, Newark, N. J. Candy. Serial No. 442,665; June 2. Class 46.
Maimon, J., & Sons, Inc., Philadelphia, Pa. Boys' and men's slacks, trousers, suits, etc. Serial No. 451,935; June 2. Class 39.
Mallory, P. R., & Co., Inc., Indianapolis, Ind. Machinery parts. Serial No. 450,598; June 2. Class 23.
Maltex Company, Burlington, Vt. Wheat cereal for food purposes. Serial No. 452,076; June 2. Class 46.
Maxwell, J. A., Drew, Miss. Dental plate cleanser. Serial No. 451,771; June 2. Class 4.
McKenna Metals Company, Latrobe, Pa. Inserts to be used in dies and tools. Serial No. 449,967; June 2. Class 23.
Midvale Company, The, Philadelphia, Pa. Alloy steel. Serial No. 449,236; June 2. Class 14.
Midwest Fibre Company, Sheboygan, Wisc. Rocking chairs. Serial No. 451,980; June 2. Class 32.
National Postal Meter Company, Inc., Rochester, New York. Mail stamping and sealing machine. Serial No. 450,340; June 2. Class 23.
Natural Products Corporation, Los Angeles, Calif. Vitamin mineral food supplement. Serial No. 452,106; June 2. Class 6.
Pappas, Clement, Egg Harbor City, N. J. Canned cranberry sauce. Serial No. 452,202; June 2. Class 46.
Paulus, John, Chatham Township, N. J., assignor to Photo Reproducing Equipment Company, Chatham Township, Morris County, N. J. Photographic reproduction apparatus, parts thereof, and supplies therefor. Serial No. 450,143; June 2. Class 26.
Photo Reproducing Equipment Company. (See Paulus, John, assignor.)
Pioneer Salt Company, Philadelphia, Pa. Powder cleanser or detergent. Serial No. 450,144; June 2. Class 4.
Quaker Oats Company, The, Chicago, Ill. Bags and cartons. Serial No. 447,214; June 2. Class 2.
Relbe Company, The, Miami, Fla. Medicated powder. Serial No. 451,942; June 2. Class 6.
Roberts, Cadwallader and Dilts, Inc., Camden, N. J. Fountain syrup and a carbonated beverage concentrate. Serial No. 452,253; June 2. Class 45.
Roslyn Mfg. Co., New York, N. Y. Ladies' and children's dresses, house dresses, house coats, etc. Serial No. 452,227; June 2. Class 39.
Rosotti Lithographing Company, Inc., North Bergen, N. J. Cartons. Serial No. 452,082; June 2. Class 2.
Royal Bead Novelty Co., Inc., New York. Handbags and purses. Serial No. 452,254; June 2. Class 3.
S. M. A. Corporation, Chicago, Ill. Vitamin preparations. Serial No. 452,229; June 2. Class 6.
Sanchez Romate Hermanos, S. A., Jerez de la Frontera, Spain. Alcoholic aperitives and liqueurs. Serial No. 442,461; June 2. Class 49.
Scott Products Company, doing business as United Vitamin Co., Chicago, Ill. Concentrated vitamin product. Serial No. 452,317; June 2. Class 6.
Sears, Roebuck and Co., Chicago, Ill. Musical instruments. Serial No. 444,837; June 2. Class 36.
Sears, Roebuck and Co., Chicago, Ill. House slippers. Serial No. 451,508; June 2. Class 39.
Sensenbrenner, A., Sons., Los Angeles, Calif. Tobacco. Serial No. 451,858; June 2. Class 17.
Shields, Hattie, Cleveland, Ohio. Petroleum jelly compound hair restorer. Serial No. 445,245; June 2. Class 6.
Shirley Silk Co., Inc., New York, N. Y. Textile fabrics. Serial No. 449,811; June 2. Class 42.
Smith, J. Howard, New York, N. Y. Fish oil used as an ingredient in feed for poultry and other domestic animals. Serial No. 450,665; June 2. Class 6.
Sokoloff, Boris Th., Bloomfield, N. J. Vitamin preparations. Serial No. 451,511; June 2. Class 6.
Southern Belting Company, Atlanta, Ga. Belting for power transmission, elevating, conveying, and analogous purposes. Serial No. 449,084; June 2. Class 35.
Southern Cotton Oil Company, The, New Orleans, La. Soya bean oil. Serial No. 452,028; June 2. Class 46.
Springfield Coal Co., Springfield, Mass. Coal and coke. Serial No. 451,581; June 2. Class 1.
Stanley Home Products, Inc., Westfield, Mass. Brooms. Serial No. 450,032; June 2. Class 29.
Step Master Shoes Incorporated, Greenup, Ill. Shoes. Serial No. 452,205; June 2. Class 39.
Stieger, Philip J., St. Paul, Minn. Piece goods of cotton, wool, jute, etc. Serial No. 450,840; June 2. Class 42.
Sugar Beet Products Company, Saginaw, Mich. Lavatories and wash fountains. Serial No. 452,176; June 2. Class 13.
Texas Tanning & Manufacturing Company, Yoakum, Tex. Belts, helmets, chaps, etc. Serial No. 452,230; June 2. Class 39.
Tipstik Cosmetics. (See Clark, Robert H.)
Tradewinds. (See Wheeler, Althea Rickert.)
Turk, Lon B., doing business as Turk & Turk, Oklahoma City, Okla. Filling for sandwiches and buns, and sandwiches and buns containing said filling. Serial No. 450,924; June 2. Class 46.
Turnbull, Frederick M., Los Angeles, Calif. Sulfathiazole compound. Serial No. 452,178; June 2. Class 6.
Underwood, Howard G., Borger, Tex. Moving picture films. Serial No. 451,559; June 2. Class 26.
United States Rubber Company, New York, N. Y. Arch support pads. Serial No. 451,399; June 2. Class 44.
United States Rubber Company, New York, N. Y. Wheelchair back cushions, wheelchair seat cushions, knee cushion supports, etc. Serial No. 451,400; June 2. Class 44.
United Vitamin Co. (See Scott Products Company.)
Waitt & Bond, Inc., Newark, N. J. Cigars. Serial No. 451,098; June 2. Class 17.
Western Stove Co., Inc., Culver City, Calif. Heaters, ranges, air conditioners, etc. Serial No. 443,062; June 2. Class 34.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical power units including generator with regulator, exciter, and control therefor. Serial No. 451,402; June 2. Class 21.
Wheeler, Althea Rickert, doing business as Tradewinds, Winsted, Conn. Canned beets, wax beans, green beans, etc. Serial No. 437,931; June 2. Class 46.
Wilson Brothers, Chicago, Ill. Men's neckwear. Serial No. 452,117; June 2. Class 39.
Wilson-Imperial Company, Newark, N. J. Cleaning, dulling and bonding liquid for preparing old paint and varnish surface for refinishing. Serial No. 447,857; June 2. Class 16.
Wistar Institute of Anatomy and Biology, The, Philadelphia, Pa. Rats. Serial No. 451,828; June 2. Class 1.
Wyeth, John, & Brother, Incorporated, Philadelphia, Pa. Medicinal compound. Serial No. 452,118; June 2. Class 6.

LIST OF REGISTRANTS OF TRADE-MARKS

Aberfoyle Manufacturing Company, Chester, Pa. Yarn 395,689; June 2. Class 43.
Absorene Manufacturing Company, The, St. Louis, Mo. Wall-paper cleaner. 159,246; renewed Sept. 26, 1942.
Acme Protection Equipment Co., Inc., Pittsburgh, Pa. Gas masks, gas mask cannisters and parts of each. 395,644; June 2; Serial No. 450,325; published Mar. 24, 1942. Class 44.
Ad-Here Paper Company, Inc., Los Angeles, Calif. Printed sticker. 395,698; June 2. Class 38.
Air Reduction Sales Company, New York, N. Y. Rare gases. 395,660; June 2; Serial No. 450,527; published Mar. 17, 1942. Class 6.
Akron Mattress Manufacturing Company, The, assignor to The San Hygene Upholstery Company, Akron, Ohio. Mattresses, box springs, bed springs, etc. 158,876–7; renewed Sept. 19, 1942.
Alden Mills, The. (See Kops Bros., assignor.)

American Chain Company, Inc., New York, N. Y., and Fairfield, by change of name to American Chain & Cable Company, Inc., Bridgeport, Conn. Antiskid chains for vehicle wheels. 156,160; renewed June 20. 1942.
American Steel and Wire Company of New Jersey, The, Cleveland, Ohio. Steel products. 159,254; renewed Sept. 26, 1942.
Archer-Daniels-Midland Company, Minneapolis, Minn. Soybean flour, linseed meal for livestock food, soybean oil meal for livestock food, and mixed feeds for poultry and livestock. 395,600; June 2; Serial No. 449,404; published Mar. 24, 1942. Class 46.
Auto-Ordnance Corporation, New York, N. Y., and Bridgeport, Conn. Machine guns and submachine guns. 395,567; June 2; Serial No. 447,533; published Mar. 10, 1942. Class 9.
Beacon Manufacturing Company, Providence, R. I., to Beacon Manufacturing Company, Swannanoa, N. C. Blankets, traveling rugs, and blanket goods. 159,658; renewed Oct. 3, 1942.
Beatrice Creamery Company, assignor to Beatrice Creamery Company, Chicago, Ill. Condensed and powdered buttermilk. 154,487; renewed Apr. 18, 1942.
Becker, R. A., Varnish Company, The, Cincinnati, Ohio, by change of name, to The R. A. Becker Company. Stain varnish, varnishes, mixed paints, etc. 158,608; renewed Sept. 12, 1942.
Berger, Karl F., doing business as Berger Manufacturing Company, Bridgeport, Conn. Tapping machine. 395,560; June 2; Serial No. 446,259; published Mar. 24, 1942. Class 23.
Birdsboro Steel Foundry & Machine Company, Birdsboro, Pa. Railway car castings, etc. 395,585; June 2; Serial No. 449,034; published Mar. 10, 1942. Class 14.
Birnie, John U., doing business as Korktone Company, Los Angeles, Calif. Sheet material. 395,548; June 2; Serial No. 442,779; published Mar. 24, 1942. Class 50.
Bon Ami Company, The, New York, N. Y. Scouring soap. 395,607; June 2; Serial No. 449,665; published Mar. 10, 1942. Class 4.
Borden Company, The. (See City Dairies Company, The, assignor.)
Boston Food Products Co., East Boston, by change of name, to Prudence Foods, Inc., Boston, Mass. Meats, hash, soup, etc. 159,284; renewed Sept. 26, 1942.
Bound Brook Oil-Less Bearing Company, Boundbrook, N. J. Machinery bearings, bushings for mechanical working joints and machine parts including pistons, valve stem guides, etc. 395,576; June 2; Serial No. 448,719; published Mar. 24, 1942. Class 23.
Boyer, Frank A., doing business as Boyer & Co., assignor to William F. Boyer, doing business as Boyer & Company, Philadelphia, Pa. Glue. 160,139; renewed Oct. 17, 1942.
Bradley, Milton, Company, Springfield, Mass. Blackboard erasers. 395,617; June 2; Serial No. 449,885; published Mar. 24, 1942. Class 37.
Bradley, Milton, Company, Springfield, Mass. Ink, writing fluid, and stamp pads. 395,618; June 2; Serial No. 449,887; published Mar. 17, 1942. Class 11.
Brill, Max, Sons, Inc., New York, N. Y. Leathers. 395,645; June 2; Serial No. 450,328; published Mar. 24, 1942. Class 1.
Brown & Bigelow, St. Paul, Minn. Pencils. 160,402; renewed Oct. 24, 1942.
Brown, L., St. Paul, Minn. Whiskies, brandies, rums, etc. 395,711; June 2. Class 49.
Bubbobath Company, The, Minneapolis, Minn. Chemical water softener and foaming agent. 395,536; June 2; Serial No. 429,549; published Mar. 17, 1942. Class 6.
Burpee, W. Atlee, Co., Philadelphia, Pa. Seeds, bulbs, roots, etc. 160,145; renewed Oct. 17, 1942.
Burpee, W. Atlee, Company, Philadelphia, Pa. Fertilizers, plant foods, and garden foods. 395,682; June 2; Serial No. 441,345; published Mar. 31, 1942. Class 10.
Burton-Dixon Corporation, assignor to Burton-Dixon Corporation, Chicago, Ill. Comforters. 159,674; renewed Oct. 3, 1942.
Butler, J. W., Paper Company, assignor to Butler Paper Corporations, Chicago, Ill. Cover paper. 157,882; renewed Aug. 22, 1942.
Butterick Publishing Company, The, assignor to The Butterick Company, Inc., New York, N. Y. Periodical. 158,909; renewed Sept. 19, 1942.
California Almond Growers Exchange, San Francisco, Calif. Almonds and almond meats and certain named almond food products. 159,300–1; renewed Sept. 26, 1942.
California Packing Corporation, San Francisco, Calif. Fish liver oil containing vitamin A. 395,661; June 2; Serial No. 450,533; published Mar. 17, 1942. Class 6.
Cameo Vineyards Company, Fresno, Calif. Wines. 395,606; June 2; Serial No. 449,598; published Mar. 17, 1942. Class 47.
Carol Jewelry Company, Inc., New York, N. Y. Watch cases, watches, and watch movements. 395,566; June 2; Serial No. 447,358; published Mar. 24, 1942. Class 27.
Central Winery, Inc. (See Golan Wines, Inc., assignor.)
Champion Machinery Co., Joliet, Ill. Machinery for bakeries. 156,641; renewed July 11, 1942.
Cheney Brothers, South Manchester, to Cheney Brothers, South Manchester, Conn., and New York, N. Y. Woven, knitted, netted, etc. fabrics in the piece. 157,892; renewed Aug. 22, 1942.
Chicago Granitine Manufacturing Company, Chicago, Ill. Stationary laundry tubs. 158,411; renewed Sept. 5, 1942.
Chicago Pharmacal Company, Chicago, Ill. Tonic. 395,671; June 2; Serial No. 450,782; published Mar. 24, 1942. Class 6.
Chicago Pharmacal Company, Chicago, Ill. Preparation for hypertension. 395,672; June 2; Serial No. 450,783; published Mar. 24, 1942. Class 6.
Chicago Pharmacal Company, Chicago, Ill. Preparation of digitalis. 395,673; June 2; Serial No. 450,784; published Mar. 24, 1942. Class 6.
Chicago Pharmacal Company, Chicago, Ill. Pharmaceutical preparation for rectal anesthesia. 395,674; June 2; Serial No. 450,787; published Mar. 24, 1942. Class 6.
Chicago Pharmacal Company, Chicago, Ill. Preparation for the treatment of anti-arthritic and anti-rheumatic conditions. 395,676; June 2; Serial No. 450,789; published Mar. 17, 1942. Class 6.
Chicago Pharmacal Company, Chicago, Ill. Preparation to supply iron, calcium, phosphorous and vitamin D, wherever a deficiency of these elements occurs. 395,677; June 2; Serial No. 450,791; published Mar. 17, 1942. Class 6.
Chicago Pharmacal Company, Chicago, Ill. Sedative. 395,675; June 2; Serial No. 450,788; published Mar. 17, 1942. Class 6.
Chicago Pharmacal Company, Chicago, Ill. Stimulant for treatment of ulcers. 395,678; June 2; Serial No. 450,792; published Mar. 17, 1942. Class 6.
Cia Licorera Julia. (See Julia, Angel P.)
Cincinnati Ball Crank Co., The, Cincinnati, Ohio. Lubrication equipment—namely, lubricator wall batteries, portable and stationary barrel pumps, oil drains, grease and lubricant hose rolls. 395,595; June 2; Serial No. 449,337; published Mar. 24, 1942. Class 23.
Cincinnati Rubber Mfg. Co., Norwood, Ohio. Rubber hose, belting, and packing. 160,411; renewed Oct. 24, 1942.
City Dairies Company, The, St. Louis, Mo., assignor, by mesne assignments, to The Borden Company, New York, N. Y. Ice cream. 160,413; renewed Oct. 24, 1942.
Clark Thread Company, The, Newark, N. J. Thread and yarn. 159,848; renewed Oct. 10, 1942.
Clarotype Company Inc., The, New York, N. Y. Liquid preparation used for preventing paper from slipping while feeding over the rubber platen on a typewriter or multigraph machine. 395,709; June 2. Class 4.
C-Lite Chemical Products. (See Hoover, Claude H.)
Colloid's Research Company. (See Cortes, Joseph.)
Columbian Carbon Company, New York, N. Y. Particulate carbon for use as a paint pigment. 395,619; June 2; Serial No. 449,895; published Mar. 10, 1942. Class 16.
Commercial Lime Company, Ocala, Fla. Hydrated and quick lime. 160,422; renewed Oct. 24, 1942.
Condensed Bluing Company, assignor to The John Puhl Products Company, Chicago, Ill. Bluing. 155,652; renewed June 6, 1942.
Condensed Bluing Company, assignor to The John Puhl Products Company, Chicago, Ill. Bluing. 156,216; renewed June 20, 1942.
Condensed Bluing Co., The, assignor to The John Puhl Products Company, Chicago, Ill. Ammonia. 155,947; renewed June 13, 1942.
Contrino, Joseph, doing business as Dixie White Washing Fluid Co., Newark, N. J. Washing and cleaning preparation. 395,577; June 2; Serial No. 448,723; published Mar. 24, 1942. Class 4.
Cortez, Joseph, doing business as Colloid's Research Company, New York, N. Y. Vitamin compounds. 395,557; June 2; Serial No. 445,352; published Mar. 17, 1942. Class 6.
Cowan, M. C., and Company, Limited, Toronto, Ontario, Canada. Gloves. 395,568; June 2; Serial No. 448,245; published Mar. 24, 1942. Class 39.
Criterion Paper & Twine Company, New York, N. Y. Papers. 395,611; June 2; Serial No. 449,722; published Mar. 24, 1942. Class 37.
Cumbow China Decorating Company. (See Ruskin, Mabel C.)
De Aranda, Manuel R., Jerez de la Frontera, Spain. Wines. 395,579; June 2; Serial No. 448,855; published Mar. 17, 1942. Class 47.
Dell Publishing Company, Inc., The, New York, N. Y. Publications. 395,586; June 2; Serial No. 449,077; published Mar. 17, 1942. Class 38.
Demetriades, Tetos, doing business as Standard Phono Company, New York, N. Y. Phonograph records. 395,716; June 2. Class 36.
Dermetics, Inc., Seattle, Wash. Toilet preparations. 395,631–3; June 2; Serial Nos. 450,192–4; published Mar. 17, 1942. Class 6.
Diamond Alkali Company, assignor to Diamond Alkali Company, Pittsburgh, Pa. Soda ash and caustic soda and modified forms of each of varying alkali content. 152,151; renewed Feb. 21, 1942.
Dixie White Washing Fluid Co. (See Contrino, Joseph.)

Dorr Company, Inc., The, New York, N. Y. Apparatus for the treatment of solids suspended in liquids and more particularly for agitating and clarifying apparatus. 395,578; June 2; Serial No. 448,821; published Mar. 17, 1942. Class 23.

Double Duty Products, Inc., Cleveland, Ohio. Closure caps. 395,555; June 2; Serial No. 445,087; published Mar. 24, 1942. Class 50.

Drug Products Co., Inc., The, Long Island City, N. Y. Theobromine and digitalis preparation. 395,681; June 2; Serial No. 450,874; published Mar. 24, 1942. Class 6.

Du Pont, E. I., de Nemours & Company, to E. I. du Pont de Nemours and Company, Wilmington, Del. Caps, fuses, igniters, etc. 155,407; renewed May 30, 1942.

Duriron Company, Inc., The, Dayton, Ohio. Pumps for handling corrosive liquors. 395,550; June 2; Serial No. 443,324; published Mar. 24, 1942. Class 23.

Embalmer's Supply Company, The, Westport, Conn. Preparation for softening of waxes and wound fillers for use in the embalming trade. 395,620; June 2; Serial No. 449,959; published Mar. 17, 1942. Class 6.

Esterbrook Steel Pen Manufacturing Company, The, Camden, N. J. Pens and fountain pens. 160,466; renewed Oct. 24, 1942.

Eugene Fruit Growers Association, Eugene, Oreg. Vegetable juice cocktail. 395,641; June 2; Serial No. 450,306; published Mar. 24, 1942. Class 46.

Everson, Franklin E., doing business as F. E. Everson, New York, N. Y. Preparation for preserving leather. 395,615; June 2; Serial No. 449,794; published Mar. 24, 1942. Class 4.

Fabrique d'Horlogerie de Fontainemelon S. A., Fontainemelon, Switzerland. Watch blanks. 157,058–9; renewed July 25, 1942.

Fabrisue Suisse de Crayons Caran D'Ache S. A., Geneva, Switzerland. Mechanical pencils, lead holders, etc. 395,596; June 2; Serial No. 449,338; Mar. 24, 1942. Class 37.

Farboil Paint Company, Inc., Baltimore, Md. Wall paper coating composition in the nature of a paint, varnish, or enamel. 395,580; June 2; Serial No. 448,857; published Mar. 24, 1942. Class 16.

Fashion Park, Inc. (See Rosenberg Bros. & Co., assignor.)

Flotill Products, Incorporated, Stockton, Calif. Canned vegetables. 395,663; June 2; Serial No. 450,586; published Mar. 24, 1942. Class 46.

Foodcraft Products. (See United Buyers Corporation.)

Frank, A. B., Company, San Antonio, Tex. Outer clothing for men and boys. 160,187; renewed Oct. 17, 1942.

Franklin Laboratories, Inc., Hackettstown, N. J. Pharmaceutical preparation. 395,558; June 2; Serial No. 445,548; published Mar. 17, 1942. Class 6.

Frosst, Charles E., & Co., Montreal, Quebec, Canada. Tonic. 395,707; June 2. Class 6.

Fuld Bros., Baltimore, Md. Disinfectants. 395,622; June 2; Serial No. 450,011; published Mar. 24, 1942. Class 6.

Gaines, Jesse, et al. (See Gaines, M. Charles, assignor.)

Gaines, M. Charles, assignor to J. Gaines and R. Liebowitz, doing business as J. R. Publishing Company, New York, N. Y. Pictorial booklet of comic cartoons. 395,541; June 2; Serial No. 438,927; published Mar. 24, 1942. Class 38.

Gallo, E. & J., Winery, Modesto, Calif. Brandy. 395,583; June 2; Serial No. 449,005; published Mar. 17, 1942. Class 49.

Geeting & Fromm, Inc., Chicago, Ill. Still and sparkling wines. 395,627; June 2; Serial No. 450,098; published Mar. 24, 1942. Class 47.

Gemex Company, Newark, N. J. Wrist watch straps of leather or fabric; apparel buckles and collar and cuff buttons. 395,604; June 2; Serial No. 449,573; published Mar. 24, 1942. Class 40.

General Motors Corporation. (See North East Electric Company, assignor.)

Gillette Safety Razor Company, Boston, Mass. Razors. 159,359; renewed Sept. 26, 1942.

Golan Wines, Inc., Los Angeles, Calif., assignor to Central Winery, Inc., Fresno, Calif. Wines. 395,597; June 2; Serial No. 449,342; published Mar. 24, 1942. Class 47.

Gourielli, Inc., New York, N. Y. Perfumes. 395,679; June 2; Serial No. 450,834; published Mar. 24, 1942. Class 6.

Graton & Knight Manufacturing Company, The, assignor to Graton & Knight Company, Worcester, Mass. Leather belting. 159,887; renewed Oct. 10, 1942.

Grupcheff, Peter P., Los Angeles, Calif. "Bulgar Bacilli," a cultured bacillus or cultured milk for human consumption. 395,642; June 2; Serial No. 450,308; published Mar. 24, 1942. Class 46.

Haendel, Henry M., Brooklyn, N. Y. Partial dentures, dental bridges, etc. 395,593; June 2; Serial No. 449,321; published Mar. 24, 1942. Class 44.

Hampden Brewing Company, Willimansett, Mass. Ale. 395,603; June 2; Serial No. 449,549; published Mar. 24, 1942. Class 48.

Hart-Carter Co., Minneapolis, Minn. Machine for separating cereal or cereal materials. 395,590; June 2; Serial No. 449,273; published Mar. 10, 1942. Class 23.

Hearst Consolidated Publications, Inc. (See New York Evening Journal, Inc.)

Himmelein & Bailey, Philadelphia, Pa., assignor to Himmelein & Bailey, Inc., Camden, N. J. Leather belting. 160,525; renewed Oct. 24, 1942.

Hollywood Brands, Inc., doing business as Hollywood Candy Co., Centralia, Ill. Candy bars. 395,687; June 2. Class 46.

Hoover, Claude H., doing business as C-Lite Chemical Products, Goshen, Ind. Preparation for cleaning and polishing glass and metal. 395,534; June 2; Serial No. 424,518; published Mar. 17, 1942. Class 4.

Independent Salt Company, New York, N. Y., assignor to International Salt Company, Scranton, Pa. Salt. 157,987; renewed Aug. 22, 1942.

Ingersoll-Rand Company, New York, N. Y. Portable gas compressors. 395,612; June 2; Serial No. 449,723; published Mar. 24, 1942. Class 23.

International Nickel Company, Inc., The, New York, N. Y. Nails. 395,542; June 2; Serial No. 439,775; published Mar. 24, 1942. Class 13.

International Salt Company. (See Independent Salt Company, assignor.)

Irresistible, Inc., Jersey City, N. J. Cologne, toilet water, perfume, etc. 395,614; June 2; Serial No. 449,773; published Mar. 17, 1942. Class 6.

Italian Swiss Colony, San Francisco, Calif. Wines. 395,683–4; June 2. Class 47.

J. R. Publishing Company. (See Gaines, M. Charles.)

Jacoby-Bender, Inc., New York, N. Y. Bracelets and watch bracelets. 395,598; June 2; Serial No. 449,344; published Mar. 24, 1942. Class 28.

Jones, Edwin M., Silver Spring, Md. Advertising collar or device for bottles. 395,608; June 2; Serial No. 449,689; published Mar. 24, 1942. Class 50.

Julià, Angel P., doing business as Cia Licorera Julia, Barrio Obrero, Santurce, P. R. Rum. 395,704; June 2. Class 49.

Julian & Kokenge Co., The, Columbus, Ohio. Shoes. 395,629; June 2; Serial No. 450,162; published Mar. 24, 1942. Class 39.

Kalak Water Co. of New York, Inc., Louisville, Ky., and New York, N. Y. Nonalcoholic maltless beverage. 395,605; June 2; Serial No. 449,580; published Mar. 24, 1942. Class 45.

Karovit Company, San Rafael and San Francisco, Calif. Tablets for the treatment of simple headaches, neuralgia, minor throat irritations, etc. 395,563; June 2; Serial No. 446,737; published Nov. 11, 1941. Class 6.

Kaywoodie Company, New York, N. Y. Pipes. 395,690; June 2. Class 8.

Kellogg Company, Battle Creek, Mich. Livestock feed, poultry feed and mash, etc. 395,539; June 2; Serial No. 436,055; published Mar. 24, 1942. Class 46.

Kemp, C. M., Mfg. Co., The, to The C. M. Kemp Mfg. Company, Baltimore, Md. Gas apparatus and gas burners, particularly apparatus for mixing air and gas to form fuel gas and burners for heating purposes. 159,922; renewed Oct. 10, 1942.

Kent, Elizabeth, Inc., New York, N. Y. Mascara. 395,692; June 2. Class 6.

Keyes Fibre Company, Waterville, Maine. Molded resin-bearing fibrous frames, covers, etc., detail parts for typewriters, adding machines, etc. 395,599; June 2; Serial No. 449,347; published Mar. 17, 1942. Class 23.

Kleinert, I. B., Rubber Company, New York, N. Y. Shower curtains and matching shower curtains and window drapes. 395,688; June 2. Class 13.

Kops Bros., New York, N. Y., assignor, by mesne assignments, to The Alden Mills, New Orleans, La. Corsets, brassières, corset covers, etc. 154,600; renewed Apr. 18, 1942.

Korktone Company. (See Birnie, John U.)

Kroger Grocery & Baking Company, The, doing business as Wesco Foods Company, Cincinnati, Ohio. Matches. 395,616; June 2; Serial No. 449,862; published Mar. 10, 1942. Class 9.

Lambert Pharmacal Company, Wilmington, Del. Tooth paste. 395,582; June 2; Serial No. 448,974; published Mar. 17, 1942. Class 6.

Lawrence Converters, Inc., New York, N. Y. Sheets. 395,553; June 2; Serial No. 444,572; published Sept. 2, 1941. Class 42.

Lee, Harry C., and Company, New York, N. Y. Tennis, squash, and badminton rackets, golf and tennis balls. 395,540; June 2; Serial No. 437,626; published Dec. 17, 1940. Class 22.

Lerman, Ben, doing business as Mastercrafters Manufacturing Company, Chicago, Ill. Clocks. 395,702; June 2. Class 27.

Liebowitz, Rose, et al. (See Gaines, M. Charles, assignor.)

Linder Bros., Scranton, Pa., assignor to Albert A. Linder, Great Neck, Long Island, N. Y. Ladies' coats and suits. 160,230; renewed Oct. 17, 1942.

Lindsay Wire Weaving Company, The, Cleveland, Ohio. Woven wire belts for paper making machinery. 395,695; June 2. Class 23.

Loose-Wiles Biscuit Company, Long Island City, N. Y. Cakes, wafers, crackers, etc. 157,704; renewed Aug. 15, 1942.

Loretta Hairnets Inc., New York, N. Y. Hairnets. 395,569; June 2; Serial No. 448,417; published Mar. 24, 1942. Class 39.

Lowe, Joe, Corporation, New York, N. Y. Powdery coating or dusting admixture. 395,537; June 2; Serial No. 430,408; published Mar. 24, 1942. Class 46.

Lyndon Chemical Company, The, Dayton, Ohio. Germicide, disinfectant, and deodorizer for expelling insects, parasites, and the like from animals. 159,938; renewed Oct. 10, 1942.

Lyons Band Instrument Company, Chicago, Ill. Cornets, trumpets, trombones, etc. 395,551; June 2; Serial No. 444,351; published Mar. 24, 1942. Class 36.

Malt-A-Plenty, Inc., Tulsa, Okla., Birmingham, Ala., Jonesboro and Little Rock, Ark., and elsewhere. Beverages and a preparation for making the same. 395,713–14; June 2. Class 46.

Marcus Forscher & Co., to Marcus, Forscher & Co., New York, N. Y. Sole leather, upper leather, hides, etc. 156,007; renewed June 13, 1942.

Maryland Pie Bakery, Inc., also doing business as Maryland Bakery Inc., Baltimore, Md. Bread. 395,685; June 2. Class 46.

Mastercrafters Manufacturing Company. (See Lerman, Ben.)

Masury-Young Company, Boston, to Masury-Young Company, Charlestown, Mass. Wool oils and fulling and scouring oils. 158,016; renewed Aug. 22, 1942.

May Hosiery Mills, The, assignor to May McEwen Kaiser Company, Burlington, N. C. Hosiery. 158,018; renewed Aug. 22, 1942.

McDonald Biochemic Laboratories Limited, Toronto, Ontario, Canada. Oral prophylactic. 395,649; June 2; Serial No. 450,399; published Mar. 17, 1942. Class 6.

McDonald Biochemic Laboratories Limited, Toronto, Ontario, Canada. Medicinal preparation. 395,650; June 2; Serial No. 450,400; published Mar. 17, 1942. Class 6.

McEwen Kaiser Company. (See May Hosiery Mills, The, assignor.)

McGraw-Hill Publishing Company, Inc., New York, N. Y. Offset paper in rolls. 395,625; June 2; Serial No. 450,074; published Mar. 24, 1942. Class 37.

McLellan, E. W., Co., San Francisco, Calif. Real flowers. 395,602; June 2; Serial No. 449,527; published Mar. 24, 1942. Class 1.

Mead Corporation, The, Chillicothe, Ohio. Resinous material. 395,623; June 2; Serial No. 450,018; published Mar. 24, 1942. Class 1.

Meincke, William H., doing business as Verne Products Company, White Plains, N. Y. Cigarette cases. 395,693; June 2. Class 8.

Meller, Adolf, doing business as Adolf Meller Company, Providence, R. I. Onyx stones. 395,696; June 2. Class 28.

Menasha Products Company, Menasha, Wis. Waxed paper. 395,561; June 2; Serial No. 446,629; published Mar. 24, 1942. Class 37.

Metals Disintegrating Company, Inc., Union, N. J. Disintegrated metals. 395,544; June 2; Serial No. 441,619; published Mar. 10, 1942. Class 14.

Mid-States Gummed Paper Co., Chicago, Ill. Gummed paper tape. 395,543; June 2; Serial No. 439,823; published Mar. 24, 1942. Class 37.

Midvale Company, The, Philadelphia, Pa. Alloy steel. 395,588; June 2; Serial No. 449,235; published Mar. 10, 1942. Class 14.

Midvale Company, The, Philadelphia, Pa. Alloy steel. 395,589; June 2; Serial No. 449,237; published Mar. 10, 1942. Class 14.

Morse & Morse, Los Angeles, Calif. Ladies' lingerie—namely, panties. 395,570; June 2; Serial No. 448,619; published Jan. 6, 1942. Class 39.

Mount Vernon-Woodberry Mills, Inc., Baltimore, Md. Cotton ducks, water-proof ducks, and cotton piece goods. 395,703; June 2. Class 42.

Mueller, L. J., Furnace Co., to L. J. Mueller Furnace Company, Milwaukee, Wis. Hot-air furnaces. 159,959; renewed Oct. 10, 1942.

Mulligan, Walter J., doing business as W. J. Mulligan & Co., San Francisco, Calif. Brandy. 395,630; June 2; Serial No. 450,168; published Mar. 17, 1942. Class 49.

Napa & Sonoma Wine Co., San Francisco, Calif. Wines. 395,554; June 2; Serial No. 444,651; published Mar. 17, 1942. Class 47.

Napa & Sonoma Wine Co., San Francisco, Calif. Wines. 395,601; June 2; Serial No. 449,429; published Mar. 24, 1942. Class 47.

National Artist Materials Company, Inc., New York, N. Y. Photo mat-mounts, artist illustration board, mounting board, etc. 395,637; June 2; Serial No. 450,242; published Mar. 24, 1942. Class 37.

New York Evening Journal, Inc., New York, N. Y., now by merger, Hearst Consolidated Publications, Inc. Newspaper section. 395,699–700; June 2. Class 38.

North American Brewing Company, Brooklyn, N. Y. Beer. 395,359; June 2; Serial No. 445,747; published Mar. 17, 1942. Class 48.

North East Electric Company, Rochester, N. Y., assignor, by mesne assignments, to General Motors Corporation, Detroit, Mich. Tachometers and odometers. 160,257; renewed Oct. 17, 1942.

Northam Warren Corporation, New York, N. Y., to Northam Warren Corporation, Stamford, Conn. Manicure sets and absorbent cotton. 160,323; renewed Oct. 17, 1942.

Northam Warren Corporation, Stamford, Conn. Liquid nail polish. 395,551; June 2; Serial No. 450,423; published Mar. 17, 1942. Class 6.

Northrup, King & Co., doing business as Westland Seed Company, Berkeley, Calif. Seeds. 395,626; June 2; Serial No. 450,075; published Mar. 24, 1942. Class 1.

Northwestern Yeast Company, Chicago, Ill. Medicinal vitamine products. 160,258; renewed Oct. 17, 1942.

Oldetyme Distillers, Inc., assignor to Oldetyme Distillers Corporation, New York, N. Y. Whiskey. 395,529; June 2; Serial No. 364,103; published Oct. 7, 1941. Class 49.

Oldetyme Distillers, Inc., assignor to Oldetyme Distillers Corporation, New York, N. Y. Whiskey and gin. 395,530; June 2; Serial No. 364,241; published Oct. 7, 1941. Class 49.

O'Neil, Keith and Hopkins, Spokane, Wash. Cartridges. 395,647; June 2; Serial No. 450,375; published Mar. 24, 1942. Class 9.

Ovendale, Charles, Kellogg, Iowa. Electro-plating compositions. 395,715; June 2. Class 6.

Ozark Oak Flooring Co., Inc., The, Bismark, Mo. Wooden flooring. 395,712; June 2. Class 12.

Parfum L'Orle, Inc., New York, N. Y. Deodorizing freshener. 395,638; June 2; Serial No. 450,243; published Mar. 24, 1942. Class 6.

Parfumeria Floralia, S. A., Madrid, Spain. Powders, perfumes, hair-tonic, etc. 148,704; renewed Nov. 22, 1941.

Parsons & Baker Co., The, Phoenixville, Pa. Ladies' underwear. 160,266; renewed Oct. 17, 1942.

Penberthy Injector Company, Detroit, Mich. Electric sump pumps. 395,572; June 2; Serial No. 448,706; published Mar. 24, 1942. Class 23.

Personal Appearance, Inc., Provincetown, Mass. Cologne and toilet water. 395,565; June 2; Serial No. 446,955; published Mar. 24, 1942. Class 6.

Peterson Nut Company, The, Cleveland, Ohio. Nuts. 395,697; June 2. Class 46.

Petrogalar Laboratories, Inc., Chicago, Ill. Aqueous suspension of mineral oil for constipation. 395,654–8; June 2; Serial Nos. 450,517–21; published Mar. 17, 1942. Class 6.

Petrogalar Laboratories, Inc., Chicago, Ill. Aqueous suspension of mineral oil for the treatment of constipation. 395,659; June 2; Serial No. 450,522; published Mar. 17, 1942. Class 6.

Phillips Petroleum Company, Bartlesville, Okla. Gasoline. 395,531; June 2; Serial No. 370,120; published Nov. 21, 1939. Class 15.

Pine Bros., Inc., Philadelphia, Pa. Ant-acid preparation. 395,591; June 2; Serial No. 449,292; published Jan. 27, 1942. Class 6.

Plunkett, W. H., doing business as Plunkett Chemical Company, Chicago, Ill. Solvent. 395,664; June 2; Serial No. 450,685; published Mar. 17, 1942. Class 6.

Plunkett, W. H., doing business as Plunkett Chemical Company, Chicago, Ill. Drain pipe cleaner. 395,665; June 2; Serial No. 450,686; published Mar. 17, 1942. Class 6.

Plunkett, W. H., doing business as Plunkett Chemical Company, Chicago, Ill. Disinfectant, insecticide, solvent, etc. 395,666; June 2; Serial No. 450,689; published Mar. 17, 1942. Class 6.

Polk Miller Products Corporation, Richmond, Va. Flea soap. 395,609; June 2; Serial No. 449,700; published Mar. 17, 1942. Class 4.

Price Flavoring Extract Co., Chicago, Ill. Food colors. 395,668; June 2; Serial No. 450,741; published Mar. 17, 1942. Class 6.

Procter & Gamble Company, The, Cincinnati, Ohio. Soap. 395,592; June 2; Serial No. 449,294; published Mar. 10, 1942. Class 4.

Prudence Foods, Inc. (See Boston Food Products Co.)

Puhl, John, Products Company, The. (See Condensed Bluing Co., The, assignor.)

Quindimil, Angel, Buenos Aires, Argentina. Wines. 395,705; June 2. Class 47.

Rasmussen Shoe Company, Westboro, Mass. Shoes. 395,624; June 2; Serial No. 450,023; published Mar. 24, 1942. Class 39.

Red River Lumber Company, The, Minneapolis, Minn. Lumber. 156,038–9; renewed June 13, 1942.

Red River Lumber Company, The, Minneapolis, Minn., and Westwood, Calif., to The Red River Lumber Company, Minneapolis, Minn. Lumber. 159,746; renewed Oct. 3, 1942.

Rennex Corporation, New York, N. Y. Rennet preparation. 395,594; June 2; Serial No. 449,328; published Mar. 24, 1942. Class 46.

Resistofiex Corporation, Belleville, N. J. Gloves and aprons. 395,640; June 2; Serial No. 450,284; published Mar. 24, 1942. Class 39.

Richards, Boggs & King, Inc., Chicago, Ill. Raincoats, rain capes, combined rain capes and hoods, etc. 395,621; June 2; Serial No. 450,001; published Mar. 10, 1942. Class 39.

Roberson, Alger, doing business as Roberson & Sons, Cleveland, Ohio. Insecticide, germicide, and disinfectant. 395,562; June 2; Serial No. 446,633; published Dec. 16, 1941. Class 6.

Rochester Shoe Tree Co. (See Schelter Last Co., Inc.)

Roma Wine Company, Inc., Fresno, Calif. Wines. 395,708; June 2. Class 47.

Rosenberg Bros. & Co., assignor, by mesne assignments, to Fashion Park, Inc., Rochester, N. Y. Men's ulsters and overcoats. 155,809; renewed June 6, 1942.
Rosoff Sand & Gravel Corp., New York, N. Y. Washed sand and gravel. 160,283; renewed Oct. 17, 1942.
Roth Tobacco Company, Cape Girardeau, Mo. Plug tobacco. 395,613; June 2; Serial No. 449,743; published Mar. 24, 1942. Class 17.
Ruskin, Mabel C., doing business as Cumbow China Decorating Company, Abingdon, Va. Ceramic, table and cooking ware, vases, jars, jugs, etc. 395,571; June 2; Serial No. 448,654; published Mar. 24, 1942. Class 30.
Saks & Company, New York, N. Y. Gloves. 395,628; June 2; Serial No. 450,117; published Mar. 24, 1942. Class 39.
Sall Mountain Company, to Sall Mountain Company, Chicago, Ill., successor. Asbestos pipe covering. 160,282; renewed Oct. 17, 1942.
San Hygene Upholstery Company, The. (See Akron Mattress Manufacturing Company, The, assignor.)
Sandoz Chemical Works, Inc., New York, N. Y. Medicinal preparation. 395,669; June 2; Serial No. 450,747; published Mar. 17, 1942. Class 6.
Schelter Last Co., Inc., doing business as Rochester Shoe Tree Co., Rochester, N. Y. Shoe trees. 395,646; June 2; Serial No. 450,346; published Mar. 24, 1942. Class 50.
Schieren, Chas. A., Company, New York, N. Y. Leather belting. 160,658; renewed Oct. 24, 1942.
Scholl Mfg. Co., Inc., The, Chicago, Ill. Boots and shoes and slippers. 395,532; June 2; Serial No. 387,144; published Jan. 20, 1942. Class 39.
Schwartz, Martin J., New York, N. Y. Publication. 395,701; June 2. Class 38.
Scofield, Evans and Company, Chicago, Ill., to Scofield, Evans & Company, Philadelphia, Pa. Liquid waterproofing compounds. 160,286; renewed Oct. 17, 1942.
Sears, Roebuck and Co., Chicago, Ill. Bleached cotton. 395,648; June 2; Serial No. 450,380; published Mar. 24, 1942. Class 1.
Shepard, Joseph C., Wilmington, N. C. Washing powder. 395,535; June 2; Serial No. 428,635; published Mar. 24, 1942. Class 4.
Shoe Covers Corporation, New York, N. Y. Rubber or latex in solution or aqueous suspension. 395,634; June 2; Serial No. 450,213; published Mar. 24, 1942. Class 1.
"Silver Manufacturing Company". (See Wick, E. Mason.)
Silver Manufacturing Company, The, assignor, by mesne assignments, to E. Mason Wick, doing business as "Silver Manufacturing Company," Salem, Ohio. Feed cutters, ensilage cutters, and fodder shredders. 155,080; renewed May 16, 1942.
Smith, Landon P., Inc., Irvington, N. J. Unitary kits including an assembly of glass cutters, putty knives, wall scrapers, and scrapers for general purposes, used by painters, glaziers, and the like. 395,284; June 2; Serial No. 449,024; published Mar. 24, 1942. Class 23.
Snider Packing Corporation, Rochester, N. Y. Chili sauce. 395,564; June 2; Serial No. 446,817; published Mar. 24, 1942. Class 46.
South Carloina Peach Growers Associated, Spartanburg, S. C. Canned and preserved peaches. 395,556; June 2; Serial No. 445,160; published Mar. 24, 1942. Class 46.
Southern Dairies, Inc., doing business as Southern Dairies Laboratories, Washington, D. C. Effervescent milk drink. 395,533; June 2; Serial No. 413,800; published Mar. 24, 1942. Class 46.
Southland Wine Corporation, Richmond, Va. Wines. 395,686; June 2. Class 47.
Standard Crayon Manufacturing Co., Danvers, Mass., by change of name, to The Standard Crayon Manufacturing Corporation. Wax and chalk crayons. 160,676–7; renewed Oct. 24, 1942.
Standard Oil Company, San Francisco, Calif., assignor to Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Oil of myrbane, bensol, xylol, etc. 156,430; renewed June 20, 1942.
Standard Phono Company. (See Demetriades, Tetos.)
Stein, A., & Company. Elastic webbing and shirred elastic ribbon. 159,120; renewed Sept. 19, 1942.
Stein, A., & Company, Chicago, Ill. Sanitary aprons and sanitary belts. 159,121; renewed Sept. 19, 1942.
Textileather Corporation, Toledo, Ohio. Coated fabrics. 395,639; June 2; Serial No. 450,250; published Mar. 24, 1942. Class 50.
Thomas, Heyward D., doing business as The H. C. Thomas Company, Piqua, Ohio. Machine for removing feathers from poultry. 395,710; June 2. Class 23.
Thompson-Products, Incorporated, Cleveland, Ohio. Vehicle wheel aligning devices for shop service. 395,610; June 2; Serial No. 449,706; published Mar. 24, 1942. Class 23.
Threadwell Tap & Die Company, Greenfield, Mass. High speed cut thread taps. 395,545; June 2; Serial No. 441,793; published Mar. 24, 1942. Class 23.
Threadwell Tap & Die Company, Greenfield, Mass. High speed commercial ground thread taps. 395,546–7; June 2; Serial Nos. 441,794–5; published Mar. 24, 1942. Class 23.
Timken-Detroit Axle Company, The. (See Wisconsin Parts Company, assignor.)
Torrington Company, The, Torrington, Conn. Magazine and house organ. 395,691; June 2. Class 38.
Tulsa Refined Oil Company, Tulsa, Okla. Mineral oils and greases. 155,100; renewed May 16, 1942.
Ulmann, Bernhard, Co. Inc., New York, N. Y. Yarns. 395,694; June 2. Class 43.
United American Metals Corporation, Brooklyn, N. Y. Non-ferrous alloy. 395,643; June 2; Serial No. 450,322; published Mar. 24, 1942. Class 14.
United Buyers Corporation, also doing business as Foodcraft Products, Chicago, Ill. Toilet soaps, laundry soap, soap flakes, etc. 395,538; June 2; Serial No. 430,529; published Aug. 13, 1940. Class 4.
United Precision Products Co., Chicago, Ill. Plug gauges and parts therefor. 395,635–6; June 2; Serial Nos. 450,215–16; published Mar. 24, 1942. Class 26.
Univis Lens Company, The, Dayton, Ohio. Ophthalmic lens blanks and eyeglass lenses. 395,581; June 2; Serial No. 448,883; published Mar. 24, 1942. Class 26.
Verne Products Company. (See Meincke, William H.)
Vitro-Agate Company, The, Parkersburg, W. Va. Ornamental articles. 395,573–4; June 2; Serial Nos. 448,713–14; published Mar. 24, 1942. Class 50.
Voss, Peter, Washington, D. C. Ointment, salve, foot powder, etc. 395,667; June 2; Serial No. 450,701; published Mar. 17, 1942. Class 6.
Wadlington, Claude R., Co., Hopkinsville, Ky. Ointment. 395,670; June 2; Serial No. 450,756; published Mar. 17, 1942. Class 6.
Webber, William L., Vancouver, British Columbia, Canada. Jewelry. 395,549; June 2; Serial No. 443,096; published Mar. 24, 1942. Class 28.
Weber, Alfred, St. Louis, Mo. Canine identification devices employed in inscribing identification characters on dogs. 395,575; June 2; Serial No. 448,715; published Mar. 24, 1942. Class 50.
Wells, S. C., & Company, Leroy, N. Y. Preparation for relief of coughs due to colds. 395,652; June 2; Serial No. 450,437; published Mar. 17, 1942. Class 6.
Wesco Foods Company. (See Kroger Grocery & Baking Company, The.)
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Battery chargers. 155,866; renewed June 6, 1942.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Radio telephone and telegraph transmitters and receivers, antenna outfits, head phones, etc. 156,578; renewed June 7, 1942.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Radio mechanism. 156,781; renewed July 11, 1942.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Radio telephone and telegraph transmitters and receivers, and certain named parts and accessories. 158,568; renewed Sept. 5, 1942.
Westland Seed Company. (See Northrup, King & Co.)
Wick, E. Mason. (See Silver Manufacturing Company, assignor.)
Wilder Manufacturing Co., The, Niles, Ohio. Draft diverters, gas furnaces, and unit heaters. 395,653; June 2; Serial No. 450,465; Mar. 24, 1942. Class 34.
Williams, B. C., & Company, Inc., New York, N. Y. Flavoring extracts. 395,552; June 2; Serial No. 444,481; published Mar. 24, 1942. Class 46.
Wisconsin Parts Company, Oshkosh, Wis., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Vehicle axles. 160,743; renewed Oct. 24, 1942.
Wishnick-Tumpeer, Inc., Chicago, Ill. Precipitated calcium carbonate. 395,680; June 2; Serial No. 450,872; published Mar. 24, 1942. Class 6.
Wolfe & Lang, Inc., New York, N. Y. Girdles and corsets. 395,662; June 2; Serial No. 450,578; published Mar. 24, 1942. Class 39.
Wulff, Carlyle C., doing business as Wulff Manufacturing Co., Chicago, Ill. Mechanical knife sharpeners. 395,706; June 2. Class 23.
Wyler, Paul, Forest Hills, N. Y. Watches. 395,587; June 2; Serial No. 449,164; published Mar. 24, 1942. Class 27.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Cotton, Bleached. Sears, Roebuck and Co. 392,648; June 2; Serial No. 450,380; published Mar. 24, 1942.
Flowers, Real. E. W. McLellan Co. 395,602; June 2; Serial No. 449,527; published Mar. 24, 1942.
Leather, upper leather, hides, etc. Sole. Marcus Forscher & Co. 156,007; renewed June 13, 1942.
Leathers. Max Brill Sons, Inc. 395,645; June 2; Serial No. 450,328; published Mar. 24, 1942.
Resinous material. Mead Corporation. 395,623; June 2; Serial No. 450,018; published Mar. 24, 1942.

Rubber or latex in solution or aqueous suspension. Shoe Covers Corporation. 395,634; June 2; Serial No. 450,213; published Mar. 24, 1942.
Sand and gravel, Washed. Rosoff Sand & Gravel Corp. 160,283; renewed Oct. 17, 1942.
Seeds. Northrup, King & Co. 395,626; June 2; Serial No. 450,075; published Mar. 24, 1942.
Seeds, bulbs, roots, etc. W. Atlee Burpee Co. 160,145; renewed Oct. 17, 1942.

CLASS 4

Cleaner, Wall-paper. Absorene Manufacturing Company. 159,246; renewed Sept. 26, 1942.
Preparation for cleaning and polishing glass and metal. C. H. Hoover. 395,534; June 2; Serial No. 424,518; published Mar. 17, 1942.
Preparation for preserving leather. F. E. Everson. 395,615; June 2; Serial No. 449,794; published Mar. 24, 1942.
Preparation used for preventing paper from slipping while feeding over the rubber platen on a typewriter or multigraph machine. Clarotype Company Inc. 395,709; June 2.
Soap. Procter & Gamble Company. 395,592; June 2; Serial No. 449,294; published Mar. 10, 1942.
Soap, Flea. Polk Miller Products Corporation. 395,609; June 2; Serial No. 449,700; published Mar. 17, 1942.
Soap, Scouring. Bon Ami Company. 395,607; June 2; Serial No. 449,665; published Mar. 10, 1942.
Soaps, laundry soap, soap flakes, etc., Toilet. United Buyers Corporation. 395,538; June 2; Serial No. 430,529; published Aug. 13, 1940.
Washing and cleaning preparation. J. Contrino. 395,577; June 2; Serial No. 448,723; published Mar. 24, 1942.
Washing powder. J. C. Shepard. 395,535; June 2; Serial No. 428,635; published Mar. 24, 1942.

CLASS 5

Glue. F. A. Boyer. 160,139; renewed Oct. 17, 1942.

CLASS 6

Acid preparation, Ant. Plen Bros., Inc. 395,591; June 2; Serial No. 449,292; published Jan. 27, 1942.
Ammonia. Condensed Bluing Co. 155,947; renewed June 13, 1942.
Aqueous suspension of mineral oil for constipation. Petrogalar Laboratories, Inc. 395,654–8; June 2; Serial Nos. 450,517–21; published Mar. 17, 1942.
Aqueous suspension of mineral oil for treatment of constipation. Petrogalar Laboratories, Inc. 395,659; June 2; Serial No. 450,522; published Mar. 17, 1942.
Bluing. Condensed Bluing Company. 155,952; renewed June 6, 1942.
Bluing. Condensed Bluing Company. 156,216; renewed June 20, 1942.
Calcium carbonate, Precipitated. Wishnick-Tumpear, Inc. 395,680; June 2; Serial No. 450,872; published Mar. 24, 1942.
Chemical water softener and foaming agent. Bubbobath Company. 395,536; June 2; Serial No. 429,549; published Mar. 17, 1942.
Cleaner, Drain pipe. W. H. Plunkett. 395,665; June 2; Serial No. 450,686; published Mar. 17, 1942.
Cologne and toilet water. Personal Appearance, Inc. 395,965; June 2; Serial No. 446,955; published Mar. 24, 1942.
Cologne, toilet water, perfume, etc. Irresistible, Inc. 395,614; June 2; Serial No. 449,773; published Mar. 17, 1942.
Colors, Food. Price Flavoring Extract Co. 395,668; June 2; Serial No. 450,741; published Mar. 17, 1942.
Deodorizing freshener. Parfum L'Orle, Inc. 395,638; June 2; Serial No. 450,243; published Mar. 24, 1942.
Disinfectant, insecticide, solvent, etc. W. H. Plunkett. 395,666; June 2; Serial No. 450,689; published Mar. 17, 1942.
Disinfectants. Fuld Bros. 395,622; June 2; Serial No. 450,011; published Mar. 24, 1942.
Electro-plating compositions. C. Ovendale. 395,715; June 2.
Fish liver oil containing Vitamin A. California Packing Corporation. 395,661; June 2; Serial No. 450,533; published Mar. 17, 1942.
Gases, Rare. Air Reduction Sales Company. 395,660; June 2; Serial No. 450,527; published Mar. 17, 1942.
Germicide, disinfectant, and deodorizer for expelling insects, parasites, and the like from animals. Lyndon Chemical Company. 159,938; renewed Oct. 10, 1942.
Insecticides, germicide, and disinfectant. A. Roberson. 395,562; June 2; Serial No. 446,633; published Dec. 16, 1941.
Mascara. Elizabeth Kent, Inc. 395,692; June 2.
Medicinal preparation. McDonald Biochemic Laboratories Limited. 395,650; June 2; Serial No. 450,400; published Mar. 17, 1942.
Medicinal preparation. Sandoz Chemical Works, Inc. 395,669; June 2; Serial No. 450,747; published Mar. 17, 1942.
Medicinal vitamine products. Northwestern Yeast Company. 160,258; renewed Oct. 17, 1942.
Nail polish, Liquid. Northam Warren Corporation. 395,651; June 2; Serial No. 450,423; published Mar. 17, 1942.
Oil of myrbane, benzol, xylol, etc. Standard Oil Company. 156,430; renewed June 20, 1942.
Ointment. Claude R. Wadlington Co. 395,670; June 2; Serial No. 450,756; published Mar. 17, 1942.
Ointment, salve, foot powder, etc. P. Voss. 395,667; June 2; Serial No. 560,701; published Mar. 17, 1942.
Perfumes. Gourielli, Inc. 395,679; June 2; Serial No. 450,834; published Mar. 24, 1942.
Pharmaceutical preparation. Franklin Laboratories, Inc. 395,558; June 2; Serial No. 445,548; published Mar. 17, 1942.
Pharmaceutical preparation for rectal anesthesia. Chicago Pharmacal Company. 395,674; June 2; Serial No. 450,787; published Mar. 24, 1942.
Powders, perfumes, hair-tonic, etc. Perfumeria Floralia, S. A. 148,704; renewed Nov. 22, 1941.
Preparation for hypertension. Chicago Pharmacal Company. 395,672; June 2; Serial No. 450,783; published Mar. 24, 1942.
Preparation for softening of waxes and wound fillers for use in the embalming trade. Embalmer's Supply Company. 395,620; June 2; Serial No. 449,959; published Mar. 17, 1942.
Preparation for the relief of coughs due to colds. S. C. Wells & Company. 395,652; June 2; Serial No. 450,437; published Mar. 17, 1942.
Preparation for the treatment of anti-arthritic and anti-rheumatic conditions. Chicago Pharmacal Company. 395,676; June 2; Serial No. 450,789; published Mar. 17, 1942.
Preparation of digitalis. Chicago Pharmacal Company. 395,673; June 2; Serial No. 450,784; published Mar. 24, 1942.
Preparation to supply iron, calcium, phosphorus and Vitamin D, wherever a deficiency of these elements occurs. Chicago Pharmacal Company. 395,677; June 2; Serial No. 450,791; published Mar. 17, 1942.
Prophylactic, Oral. McDonald Biochemic Laboratories Limited. 395,649; June 2; Serial No. 450,399; published Mar. 17, 1942.
Sedative. Chicago Pharmacal Company. 395,675; June 2; Serial No. 450,788; published Mar. 17, 1942.
Soda ash and caustic soda and modified forms of each of varying alkali content. Diamond Alkali Company. 152,151; renewed Feb. 21, 1942.
Solvent. W. H. Plunkett. 395,664; June 2; Serial No. 450,685; published Mar. 17, 1942.
Stimulant for treatment of ulcers. Chicago Pharmacal Company. 395,678; June 2, Serial No. 450,792; published Mar. 17, 1942.
Tablets for the treatment of simple headaches, neuralgia, minor throat irritations, etc. Karovit Company. 395,563; June 2; Serial No. 446,737; published Nov. 11, 1941.
Theobromine and digitalis preparation. Drug Products Co. 395,681; June 2; Serial No. 450,874; published Mar. 24, 1942.
Toilet preparations. Dermetics, Inc. 395,631–3; June 2; Serial Nos. 450,192–4; published Mar. 17, 1942.
Tonic. Chicago Pharmacal Company. 395,671; June 2; Serial No. 450,782; published Mar. 24, 1942.
Tonic. Charles E. Frosst & Co. 395,707; June 2.
Tooth paste. Lambert Pharmacal Company. 395,582; June 2; Serial No. 448,974; published Mar. 17, 1942.
Vitamin compounds. J. Cortez. 395,557; June 2; Serial No. 445,352; published Mar. 17, 1942.
Wool oils and fulling and scouring oils. Masury-Young Company. 158,016; renewed Aug. 22, 1942.

CLASS 8

Cigarette cases. W. H. Meincke. 395,693; June 2.
Pipes. Kaywoodie Company. 395,690; June 2.

CLASS 9

Caps, fuses, igniters, etc. E. I. du Pont de Nemours & Company. 155,407; renewed May 30, 1942.
Cartridges. O'Neil, Keith and Hopkins. 395,647; June 2; Serial No. 450,375; published Mar. 24, 1942.
Guns and submachine guns, Machine. Auto-Ordnance Corporation. 395,567; June 2; Serial No. 447,533; published Mar. 10, 1942.
Matches. Kroger Grocery & Baking Company. 395,616; June 2; Serial No. 449,862; published Mar. 10, 1942.

CLASS 10

Fertilizers, plant foods and garden foods. W. Atlee Burpee Company. 395,682; June 2; Serial No. 441,345; published Mar. 31, 1942.

CLASS 11

Ink, writing fluid, and stamp pads. Milton Bradley Company. 395,618; June 2; Serial No. 449,887; published Mar. 17, 1942.

CLASS 12

Flooring, Wooden. Ozark Oak Flooring Co. 395,712; June 2.
Lime, Hydrated and quick. Commercial Lime Company. 160,422; renewed Oct. 24, 1942.
Lumber. Red River Lumber Company. 156,038–9; renewed June 13, 1942.
Lumber. Red River Lumber Company. 159,746; renewed Oct. 3, 1942.
Pipe covering, Asbestos. Sall Mountain Company. 160,282; renewed Oct. 17, 1942.

Waterproofing compounds, Liquid. Scofield, Evans and Company. 160,286; renewed Oct. 17, 1942.

CLASS 13

Chains for vehicle wheels, Antiskid. American Chain Company. 156,160; renewed June 20, 1942.
Nails. International Nickel Company. 395,542; June 2; Serial No. 439,775; published Mar. 24, 1942.
Shower curtains and matching shower curtains and window drapes. I. B. Kleinert Rubber Company. 395,688; June 2.

CLASS 14

Alloy, Non-ferrous. United American Metals Corporation. 395,643; June 2; Serial No. 450,322; published Mar. 24, 1942.
Alloy steel. Midvale Company. 395,588; June 2; Serial No. 449,235; published Mar. 10, 1942.
Alloy steel. Midvale Company. 395,589; June 2; Serial No. 449,237; published Mar. 10, 1942.
Castings, etc., Railway car. Birdsboro Steel Foundry & Machine Company. 395,585; June 2; Serial No. 449,034; published Mar. 10, 1942.
Metals, Disintegrated. Metals Disintegrating Company. 395,544; June 2; Serial No. 441,619; published Mar. 10, 1942.
Steel products. American Steel and Wire Company of New Jersey. 159,254; renewed Sept. 26, 1942.

CLASS 15

Gasoline. Phillips Petroleum Company. 395,531; June 2; Serial No. 370,120; published Nov. 21, 1939.
Oils and greases, Mineral. Tulsa Refined Oil Company. 155,100; renewed May 16, 1942.

CLASS 16

Coating composition in the nature of a paint, varnish, or enamel, Wall paper. Farboil Paint Company. 395,580; June 2; Serial No. 448,857; published Mar. 24, 1942.
Particulate carbon for use as a paint pigment. Columbian Carbon Company. 395,619; June 2; Serial No. 449,895; published Mar. 10, 1942.
Varnish, varnishes, mixed paints, etc., Stain. R. A. Becker Varnish Company. 158,608; renewed Sept. 12, 1942.

CLASS 17

Tobacco, Plug. Roth Tobacco Company. 395,613; June 2; Serial No. 449,743; published Mar. 24, 1942.

CLASS 19

Axles, Vehicle. Wisconsin Parts Company. 160,743; renewed Oct. 24, 1942.

CLASS 21

Battery chargers. Westinghouse Electric & Manufacturing Company. 155,866; renewed June 6, 1942.
Radio mechanism. Westinghouse Electric & Manufacturing Company. 156,781; renewed July 11, 1942.
Radio telephone and telegraph transmitters and receivers, and certain named parts and accessories. Westinghouse Electric & Manufacturing Company. 158,568; renewed Sept. 5, 1942.
Radio telephone and telegraph transmitters and receivers, antenna outfits, head phones, etc. Westinghouse Electric & Manufacturing Company. 156,578; renewed June 7, 1942.

CLASS 22

Rackets, golf and tennis balls, Tennis, squash, and badminton. Harry C. Lee and Company. 395,540; June 2; Serial No. 437,626; published Dec. 17, 1940.

CLASS 23

Apparatus for the treatment of solids suspended in liquids and more particularly for agitating and clarifying apparatus. Dorr Company. 395,578; June 2; Serial No. 448,821; published Mar. 17, 1942.
Belts for paper making machinery, Woven wire. Lindsay Wire Weaving Company. 395,695; June 2.
Compressors, Portable gas. Ingersoll-Rand Company. 395,612; June 2; Serial No. 449,723; published Mar. 24, 1942.
Cutters, ensilage cutters, and fodder shredders, Feed. Silver Manufacturing Company. 155,080; renewed May 16, 1942.
Frames, Covers, etc., detail parts for typewriters, adding machines, etc. Keyes Fibre Company. 395,599; June 2.; Serial No. 449,347; published Mar. 17, 1942.
Kits, Unitary. Landon P. Smith, Inc. 395,294; June 2; Serial No. 449,024; published Mar. 24, 1942.
Lubrication equipment. Cincinnati Ball Crank Co. 395,595; June 2; Serial No. 449,337; published Mar. 24, 1942.
Machine for separating cereal or cereal materials. Hart-Carter Co. 395,590; June 2; Serial No. 449,273; published Mar. 10, 1942.
Machine for removing feathers from poultry. H. D. Thomas. 395,710; June 2.
Machinery bearings, bushings, etc. Bound Brook Oil-Less Bearing Company. 395,576; June 2; Serial No. 448,719; published Mar. 24, 1942.
Machinery for bakeries. Champion Machinery Co. 156,041; renewed July 11, 1942.
Pumps, Electric sump. Penberthy Injector Company. 395,572; June 2; Serial No. 448,706; published Mar. 24, 1942.
Pumps for handling corrosive liquors. Duriron Company. 395,550; June 2; Serial No. 443,324; published Mar. 24, 1942.
Razors. Gillette Safety Razor Company. 159,359; renewed Sept. 26, 1942.
Sharpeners, Mechanical knife. Carlyle C. Sulff. 395,706; June 2.
Tapping machines. K. F. Berger. 395,560; June 2; Serial No. 446,259; published Mar. 24, 1942.
Taps, High speed cut thread. Threadwell Tap & Die Company. 395,545; June 2; Serial No. 441,793; published Mar. 24, 1942.
Taps, High speed precision ground thread. Threadwell Tap & Die Company. 395,546–7; June 2; Serial Nos. 441,794–5; published Mar. 24, 1942.
Wheel aligning devices for shop service, Vehicle. Thompson Products, Incorporated. 395,610; June 2; Serial No. 449,706; published Mar. 24, 1942.

CLASS 24

Tubs, Stationary laundry. Chicago Granitine Manufacturing Company. 158,411; renewed Sept. 5, 1942.

CLASS 26

Gauges and parts therefor, Plug. United Precision Products Co. 395,635–6; June 2; Serial Nos. 450,215–16; published Mar. 24, 1942.
Lens blanks and eyeglass lenses, ophthalmic. Univis Lens Company. 395,581; June 2; Serial No. 448,883; published Mar. 24, 1942.
Tachometers and odometers. North East Electric Company. 160,257; renewed Oct. 17, 1942.

CLASS 27

Clocks. B. Lerman. 395,702; June 2.
Watch blanks. Fabrique d'Horlogerie de Fontainemelon S. A. 157,058–9; renewed July 25, 1942.
Watch cases, watches, and watch movements. Carol Jewelry Company. 395,566; June 2; Serial No. 447,358; published Mar. 24, 1942.
Watches. P. Wyler. 395,587; June 2; Serial No. 449,164; Mar. 24, 1942.

CLASS 28

Bracelets and watch bracelets. Jacoby-Bender, Inc. 395,598; June 2; Serial No. 449,344; published Mar. 24, 1942.
Jewelry. W. L. Webber. 395,549; June 2; Serial No. 443,096; published Mar. 24, 1942.
Onyx stones. A. Meller. 395,696; June 2.

CLASS 30

Ware, vases, jars, jugs, etc., Ceramic, table and cooking. M. C. Ruskin. 395,571; June 2; Serial No. 448,654; published Mar. 24, 1942.

CLASS 32

Mattresses, box springs, bed springs, etc. Akron Mattress Manufacturing Company. 158,876–7; renewed Sept. 19, 1942.

CLASS 34

Draft diverters, gas furnaces, and unit heaters. Wiler Manufacturing Co. 395,663; June 2; Serial No. 450,465; published Mar. 24, 1942.
Furnaces, Hot-air. L. J. Mueller Furnace Co. 159,959; renewed Oct. 10, 1942.
Gas apparatus and gas burners, particularly apparatus for mixing air and gas to form fuel gas and burners for heating purposes. C. M. Kemp Mfg. Co. 159,922; renewed Oct. 10, 1942.

CLASS 35

Belting, Leather. Graton & Knight Manufacturing Company. 159,887; renewed Oct. 10, 1942.
Belting, Leather. Himmelein & Bailey. 160,525; renewed Oct. 24, 1942.
Belting, Leather. Chas. A. Schieren Company. 160,658; renewed Oct. 24, 1942.
Hose, belting, and packing, Rubber. Cincinnati Rubber Mfg. Co. 160,411; renewed Oct. 24, 1942.

CLASS 36

Cornets, trumpets, trombones, etc. Lyons Band Instrument Company. 395,551; June 2; Serial No. 444,351; published Mar. 24, 1942.
Records, Phonograph. T. Demetriades. 395,716; June 2.

CLASS 37

Cover paper. J. W. Butler Paper Company. 157,882; renewed Aug. 22, 1942.
Crayons, Wax and chalk. Standard Crayon Manufacturing Co. 160,676–7; renewed Oct. 24, 1942.
Erasers, Blackboard. Milton Bradley Company. 395,617; June 2; Serial No. 449,885; published Mar. 24, 1942.
Paper in rolls, Offset. McGraw-Hill Publishing Company. 395,625; June 2; Serial No. 450,074; published Mar. 24, 1942.
Paper, Waxed. Menasha Products Company. 395,561; June 2; Serial No. 446,629; published Mar. 24, 1942.

Papers. Criterion Paper & Twine Company. 395,611; June 2; Serial No. 449,722; published Mar. 24, 1942.
Pencils. Brown & Bigelow. 160,402; renewed Oct. 24, 1942.
Pencils, lead-holders, etc., Mechanical. Fabrique Suisse de Crayons Caran D'Ache S. A. 395,596; June 2; Serial No. 449,338; published Mar. 24, 1942.
Pens and fountain pens. Esterbrook Steel Pen Manufacturing Company. 160,466; renewed Oct. 24, 1942.
Photo mat-mounts, artist illustration board, mounting board, etc. National Artist Materials Company. 395,637; June 2; Serial No. 450,242; published Mar. 24, 1942.
Tape, Gummed paper. Mid-States Gummed Paper Co. 395,543; June 2; Serial No. 439,823; published Mar. 24, 1942.

CLASS 38

Booklet of comic cartoons, Pictorial. M. C. Gaines. 395,541; June 2; Serial No. 438,927; published Mar. 24, 1942.
Magazine and house organ. Torrington Company. 395,691; June 2.
Newspaper section. New York Evening Journal, Inc. 395,699–700; June 2.
Periodical. Butterick Publishing Company. 158,909; renewed Sept. 19, 1942.
Publication. M. J. Schwartz. 395,701; June 2.
Publications. Dell Publishing Company. 395,586; June 2; Serial No. 449,077; published Mar. 17, 1942.
Sticker, Printed. Ad-Here Paper Company. 395,698; June 2.

CLASS 39

Boots and shoes and slippers. Scholl Mfg. Co. 395,532; June 2; Serial No. 387,144; published Jan. 20, 1942.
Coats and suits, Ladies'. Linder Bros. 160,230; renewed Oct. 17, 1942.
Corsets, Brassières, corset covers, etc. Kops Bros. 154,600; renewed Apr. 18, 1942.
Girdles and corsets. Wolfe & Lang, Inc. 395,662; June 2; Serial No. 450,578; published Mar. 24, 1942.
Gloves. M. C. Cowan and Company. 395,568; June 2; Serial No. 448,245; published Mar. 24, 1942.
Gloves. Saks & Company. 395,628; June 2; Serial No. 450,117; published Mar. 24, 1942.
Gloves and aprons. Resistoflex Corporation. 395,640; June 2; Serial No. 450,284; published Mar. 24, 1942.
Hairnets. Loretta Hairnets Inc. 395,569; June 2; Serial No. 448,417; published Mar. 24, 1942.
Hosiery. May Hosiery Mills. 158,018; renewed Aug. 22, 1942.
Lingerie, namely, panties. Morse & Morse. 395,570; June 2; Serial No. 448,619; published Jan. 6, 1942.
Outer clothing for men and boys. A. B. Frank Company. 160,187; renewed Oct. 17, 1942.
Raincoats, rain capes, Combined rain capes and hoods, etc. Richards, Boggs & King, Inc. 395,621; June 2; Serial No. 450,001; published Mar. 10, 1942.
Shoes. Julian & Kokenge Co. 395,629; June 2; Serial No. 450,162; published Mar. 24, 1942.
Shoes. Rasmussen Shoe Company. 395,624; June 2; Serial No. 450,023; published Mar. 24, 1942.
Ulsters and overcoats, Men's. Rosenberg Bros. & Co. 155,809; renewed June 6, 1942.
Underwear, Ladies'. Parsons & Baker Co. 160,266; renewed Oct. 17, 1942.

CLASS 40

Elastic webbing and shirred elastic ribbon. A. Stein & Company. 159,120; renewed Sept. 19, 1942.
Straps of leather or fabric, apparel buckles and collar and cuff buttons, Wrist watch. Gemex Company. 395,604; June 2; Serial No. 449,573; published Mar. 24, 1942.

CLASS 42

Blankets, traveling rugs, and blanket goods. Beacon Manufacturing Company. 159,658; renewed Oct. 3, 1942.
Comforters. Burton-Dixon Corporation. 159,674; renewed Oct. 3, 1942.
Cotton ducks, water-proof ducks, and cotton piece goods. Mount Vernon-Woodberry Mills, Inc. 395,703; June 2.
Sheets. Lawrence Converters, Inc. 395,553; June 2; Serial No. 444,572; published Sept. 2, 1941.
Woven, knitted, netted, etc. fabrics in the piece. Cheney Brothers. 157,892; renewed Aug. 22, 1942.

CLASS 43

Thread and yarn. Clark Thread Company. 159,848; renewed Oct. 10, 1942.
Yarn. Aberfoyle Manufacturing Company. 395,689; June 2.
Yarns. Bernhard Ulmann Co. Inc. 395,694; June 2.

CLASS 44

Dentures, dental bridges, etc., Partial. H. M. Haendel. 395,593; June 2; Serial No. 449,321; published Mar. 24, 1942.
Gas masks, gas masks canisters and parts of each. Acme Protection Equipment Co. 395,644; June 2; Serial No. 450,325; published Mar. 24, 1942.
Manicure sets and absorbent cotton. Northam Warren Corporation. 160,323; renewed Oct. 17, 1942.
Sanitary aprons and sanitary belts. A. Stein & Company. 159,121; renewed Sept. 19, 1942.

CLASS 45

Beverage, Nonalcoholic maltless. Kalak Water Co. of New York, Inc. 395,605; June 2; Serial No. 449,580; published Mar. 24, 1942.

CLASS 46

Almonds and almond meats and certain named almond food products. California Almond Growers Exchange. 159,300–1; renewed Sept. 26, 1942.
Bread. Maryland Pie Bakery, Inc. 395,685; June 2.
Beverages and a preparation for making the same. Malt-A-Plenty, Inc. 395,713–14; June 2.
"Bulgar Bacilli", a cultured bacillus or cultured milk for human consumption. P. P. Grupcheff. 395,642; June 2; Serial No. 450,308; published Mar. 24, 1942.
Buttermilk, Condensed and powdered. Beatrice Creamery Company. 154,487; renewed Apr. 18, 1942.
Cakes, wafers, crackers, etc. Loose-Wiles Biscuit Company. 157,704; renewed Aug. 15, 1942.
Candy bars. Hollywood Brands, Inc. 395,687; June 2.
Canned and preserved peaches. South Carolina Peach Growers Association. 395,556; June 2; Serial No. 445,160; published Mar. 24, 1942.
Canned vegetables. Flotill Products, Incorporated. 395,663; June 2; Serial No. 450,586; published Mar. 24, 1942.
Chili sauce. Snider Packing Corporation. 395,564; June 2; Serial No. 446,817; published Mar. 24, 1942.
Coating or dusting admixture, Powdery. Joe Lowe Corporation. 395,537; June 2; Serial No. 430,408; published Mar. 24, 1942.
Extracts, Flavoring. R. C. Williams & Company. 395,552; June 2; Serial No. 444,481; published Mar. 24, 1942.
Feed, poultry feed and mash, etc., Live stock. Kellogg Company. 395,539; June 2; Serial No. 436,055; published Mar. 24. 1942.
Flour, linseed meal for livestock food, soybean oil meal for livestock food, and mixed feeds for poultry and livestock, Soybean. Archer-Daniels-Midland Company. 395,600; June 2; Serial No. 449,404; published Mar. 24, 1942.
Ice cream. City Dairies Company. 160,413; renewed Oct. 24, 1942.
Meats, hash, soup, etc. Boston Food Products Co. 159,284; renewed Sept. 26, 1942.
Milk drink, Effervescent. Southern Dairies, Inc. 395,533; June 2; Serial No. 413,800; published Mar. 24, 1942.
Nuts. Peterson Nut Company. 395,697; June 2.
Rennet preparation. Rennex Corporation. 395,594; June 2; Serial No. 449,328; published Mar. 24, 1942.
Salt. Independent Salt Company. 157,987; renewed Aug. 22, 1942.
Vegetable juice cocktail. Eugene Fruit Growers Association. 395,641; June 2; Serial No. 450,306; published Mar. 24, 1942.

CLASS 47

Wines. Angel Quindimil. 395,705; June 2.
Wines. Cameo Vineyards Company. 395,606; June 2; Serial No. 449,598; published Mar. 17, 1942.
Wines. M. R. De Aranda. 395,579; June 2; Serial No. 448,855; published Mar. 17. 1942.
Wines. Golan Wines, Inc. 395,597; June 2; Serial No. 449,342; published Mar. 24, 1942.
Wines. Italian Swiss Colony. 395,683–4; June 2.
Wines. Napa & Sonoma Wine Co. 395,554; June 2; Serial No. 444,651; published Mar. 17, 1942.
Wines. Napa & Sonoma Wine Co. 395,601; June 2; Serial No. 449,429; published Mar. 24, 1942.
Wines. Roma Wine Company. 395,708; June 2.
Wines. Southland Wine Corporation. 395,686; June 2.
Wines, Still and sparkling. Geeting & Fromm, Inc. 395,627; June 2; Serial No. 450,098; published Mar. 24, 1942.

CLASS 48

Ale. Hampden Brewing Company. 395,603; June 2; Serial No. 449,549; published Mar. 24, 1942.
Beer. North American Brewing Company. 395,559; June 2; Serial No. 445,747; published Mar. 17, 1942.

CLASS 49

Brandy. E. & J. Gallo Winery. 395,583; June 2; Serial No. 449,005; published Mar. 17, 1942.
Brandy. W. J. Mulligan. 395,630; June 2; Serial No. 450,168; published Mar. 17, 1942.
Rum. Angel P. Julia. 395,704; June 2.
Whiskey. Oldetyme Distillers, Inc. 395,529; June 2; Serial No. 364,103; published Oct. 7, 1941.
Whiskey and gin. Oldetyme Distillers, Inc. 395,530; June 2; Serial No. 364,241; published Oct. 7, 1941.
Whiskies, brandies, rums, etc. L. Brown. 395,711; June 2.

CLASS 50

Advertising collar or device for bottles. Edwin M. Jones. 395,608; June 2; Serial No. 449,680; published Mar. 24, 1942.
Caps, Closure. Double Duty Products, Inc. 395,555; June 2; Serial No. 445,087; published Mar. 24, 1942.
Fabrics, Coated. Textileather Corporation. 395,639; June 2; Serial No. 450,250; published Mar. 24, 1942.
Identification devices, Canine. A. Weber. 395,575; June 2; Serial No. 448,715; published Mar. 24, 1942.
Ornamental articles. Vitro-Agate Company. 395,573–4; June 2; Serial Nos. 448,713–14; published Mar. 24, 1942.
Sheet material. J. U. Birnie. 395,548; June 2; Serial No. 442,779; published Mar. 24, 1942.
Shoe trees. Schelter Last Co. 395,646; June 2; Serial No. 450,346; published Mar. 24, 1942.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 2D DAY OF JUNE, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Burrows, Robert J., and A. O. Williams, Battle Creek, assignors to Clark Equipment Company, Buchanan, Mich. Wheel. Re. 22,107; June 2.
Clark Equipment Company. (See Burrows, R. J., and Williams, assignors.)
Exercycle Corporation. (See Marlowe, Harold J., assignor.)
Harris, William, Paterson, N. J. Sizing warps. Re. 22,104; June 2.
Hegeler Zinc Company, The. (See McCreary, Miller A., assignor.)
Marlowe, Harold J., New York, N. Y., assignor to Exercycle Corporation. Exercising machine. Re. 22,105; June 2.
McCreary, Miller A., assignor to The Hegeler Zinc Company, Danville, Ill. Punch press for forming sheet metal shells. Re. 22,106; June 2.
Williams, Alfred O. (See Burrows, R. J., and Williams.)

LIST OF PLANT PATENTEES

Byrum, Roy L., assignor to Joseph H. Hill Company, Richmond, Ind. Rose plant. 525; June 2.
Byrum, Roy L., assignor to Joseph H. Hill Company, Richmond, Ind. Rose plant. 526; June 2.
Hill, Joseph H., Company. (See Byrum, Roy L., assignor.)

LIST OF DESIGN PATENTEES

Adler Manufacturing Co. (See Huth, George A., assignor.)
Allen, Paul M., Richmond, assignor of one-third to P. W. Vaughn, and one-third to J. E. Terry, Richmond, Va. Lapel pin or similar article. 132,634; June 2.
American Cabinet Hardware Corporation. (See Borchers, Earl, assignor.)
Borchers, Earl, assignor to American Cabinet Hardware Corporation, Rockford, Ill. Combined cabinet panel and catch operator. 132,586; June 2.
Burn, Walter P. and H. L. Jurkops, Washington, D. C., assignors to the United States of America, as represented by the United States Director of Civilian Defense. Applique emblem or similar article. 132,588; June 2.
Burn, Walter P., and H. L. Jurkops, Washington, D. C., assignors to the United States of America, as represented by the United States Director of Civilian Defense. Applique emblem or similar article. 132,589; June 2.
Burn, Walter P., and H. L. Jurkops, Washington, D. C., assignors to the United States of America, as represented by the United States Director of Civilian Defense. Applique emblem or similar article. 132,590; June 2.
Carroll, Anna L. S., New York, N. Y. Dress. 132,646; June 2.
Carroll, Anna L. S., New York, N. Y. Dress. 132,647; June 2.
Carroll, Anna L. S., New York, N. Y. Dress. 132,658; June 2.
Carroll, Anna L. S., New York, N. Y. Dress. 132,659; June 2.
Cartier, Inc. (See Foret, Edmond, assignor.)
Christen, Marcel, New York, N. Y. Textile fabric. 132,587; June 2.
Colef, Sara, Benton Harbor, Mich. Picture frame. 132,611; June 2.
Director of Civilian Defense, United States. (See Burn, Walter P. and Jurkops, assignors.)
Dixon, Eileen, Miami, Fla. Brooch or similar article. 132,652; June 2.
Dixon, Eileen, Miami, Fla. Brooch or similar article. 132,653; June 2.
Elkonin, Aaron, Brooklyn, N. Y. Finger ring or similar article. 132,591; June 2.
Elliott, Joseph H., Charlottesville, Va. Badge or the like. 132,592; June 2.
Esterbrook Steel Pen Manufacturing Co., The. (See Martial, Jacques, assignor.)
Fauth, Morgan, New York, N. Y. Dress. 132,648; June 2.
Fields, Minna, New York, N. Y. Dress. 132,660; June 2.
Flaster, Alfred A., New York, N. Y. Combined bottle and dispensing stopper. 132,619; June 2.
Folmer Graflex Corporation, The. (See Smith, Byron L., assignor.)
Foret, Edmond, assignor to Cartier, Inc., New York, N. Y. Compact. 132,612; June 2.
Gehring, Frank P., New York, N. Y. Lace. 132,654; June 2.
Goodman, William W., Cincinnati, Ohio. Flower holder. 132,655; June 2.
Gross, Joseph M., assignor to West Coast Sales Incorporated, Los Angeles, Calif. Card container. 132,620; June 2.
Hommer, Julius, Newark, N. J., assignor to Lapin Products, Inc., New York, N. Y. Ashtray or similar receptacle. 132,593; June 2.
Huth, George A., assignor to Adler Manufacturing Co., Incorporated, Louisville, Ky. Combined table and removable tray. 132,613; June 2.
Ivan, Gavan S. C., Bridgeton, N. J. Shoe sole. 132,621; June 2.
Johnson, Thomas C., Los Angeles, Calif. Combined clock and radio dial. 132,622; June 2.
Johnson, Walfred, Racine, Wis. Clothesline reel. 132,614; June 2.
Jurkops, Helen L. (See Burn, Walter P. and Jurkops.)
Katz, Louis, New York, N. Y. Dress. 132,656; June 2.
Kelsey, Vera, New York, N. Y. Hat. 132,635; June 2.
Knutson, Carl E., Chicago, Ill. Picture frame. 132,623; June 2.
Kupchick, Edward, New York, assignor to P. Levine, Brooklyn, N. Y. Linked chain or similar article. 132,624; June 2.
Lapin Products, Inc. (See Hommer, Julius, assignor.)
Larson, Willard A., Preston, Idaho. Building block. 132,594; June 2.
Larson, Willard A., Preston, Idaho. Building block. 132,615; June 2.
Latina, Harry B., East St. Louis, Ill., assignor to Rawlings Manufacturing Company, St. Louis, Mo. Baseball mitt. 132,636; June 2.
Lentheric Incorporated. (See McIntosh, Frank, assignor.)
Levine, Pearl. (See Kupchick, Edward, assignor.)
Limoges China Company, The. (See Schreckengost, Viktor, assignor.)
Linsley, Douglas F., Greenwich, assignor to Schick Incorporated, Stamford, Conn. Stadimeter chassis. 132,595; June 2.
Marks, Murray J., New York, N. Y. Beret or similar article. 132,637; June 2.
Martial, Jacques, Great Neck, N. Y., assignor to The Esterbrook Steel Pen Manufacturing Co., Camden, N. J. Combination desk unit. 132,638; June 2.
McIntosh, Frank, assignor to Lentheric Incorporated, New York, N. Y. Shaving bowl or similar article. 132,625; June 2.
Mermis, William L., Fort Des Moines, Iowa. Cigarette holder. 132,616; June 2.
Meyer, Maximilian C., Brooklyn, N. Y. Lamp stand. 132,639; June 2.
Millers Falls Company. (See Wilcox, George R., assignor.)
Mitchell, Peter, Woonsocket, R. I. Plaque or similar article. 132,596; June 2.
Mortimer, Frank A., Seattle, Wash. Negative loader. 132,629; June 2.
O'Neil, Ellen M., Los Angeles, Calif. Doll or similar article. 132,597; June 2.
Park, Malcolm S., Mount Kisco, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine. 132,617; June 2.
Park, Malcolm S., Mount Kisco, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine frame. 132,626; June 2.
Park, Malcolm S., Mount Kisco, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Radiator for a sewing machine. 132,627; June 2.

Park, Malcolm S., Mount Kisco, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Cover plate for a sewing machine. 132,628; June 2.
Peters & Russell, Inc. (See Russell, Linus E., assignor.)
Pfeiffer, Arthur E., Worcester, Mass. Sandal. 132,630; June 2.
Plotraschke, Fred J., Clayton, Mo. Barber chair. 132,598; June 2.
Quilty, Edward J., Cleveland, Ohio. Combination cigarette holder and ash receptacle. 132,631; June 2.
Rawlings Manufacturing Company. (See Latina, Harry B., assignor.)
Romanoff, Walter, Philadelphia, Pa. Accordion case. 132,599; June 2.
Rottler, Clarence T., Seattle, Wash. Micrometer caliper. 132,640; June 2.
Rubberset Company. (See Schwartz, Harold M., assignor.)
Russell, Howard W., Collingswood, N. J. Combined traveling and correspondence case. 132,604; June 2.
Russell, Howard W., Collingswood, N. J. Correspondence case. 132,618; June 2.
Russell, Linus E., assignor to Peters & Russell, Inc., Springfield, Ohio. Exhaust pipe shroud. 132,600; June 2.
Sanders, James J., Nashville, Tenn. Pencil. 132,641; June 2.
Schick Incorporated. (See Linsley, Douglas F., assignor.)
Schlage Lock Company. (See Tornoe, John A., assignor.)
Schlage, Walter R., Burlingame, Calif. Doorknob. 132,605; June 2.
Schlage, Walter R., Burlingame, Calif. Doorknob. 132,606; June 2.
Schreckengost, Viktor, Cleveland Heights, assignor to The Limoges China Company, Sebring, Ohio. Plate or similar article. 132,601; June 2.
Schwacha, Otto, Bessemer, Ala. Porch lamp. 132,642; June 2.
Schwartz, Harold M., New York, N. Y., assignor to Rubberset Company, Newark, N. J. Brush. 132,607; June 2.
Shapiro, Norman, New York, N. Y. Bottle for perfume or the like. 132,632; June 2.
Singer Manufacturing Company, The. (See Park, Malcolm S., assignor.)
Smith, Byron L., East Rochester, assignor to The Folmer Graflex Corporation, Rochester, N. Y. Exposure identifying tab for photographic, cut film holder. 132,633; June 2.
Stahl, Harold H., New York, N. Y. Dress. 132,649; June 2.
Steelman, James S., Millville, N. J. Eyecup or similar article. 132,608; June 2.
Stewart, Dayton H., Spokane, Wash. Doll. 132,602; June 2.
Stricker, Ethel E., New York, N. Y. Convertible trouser-skirt. 132,643; June 2.
Stricker, Ethel E., New York, N. Y. Convertible trouser-skirt. 132,644; June 2.
Swanson, Carl E., Chicago, Ill. Fluorescent table lamp. 132,645; June 2.
Terry, James E., et al. (See Allen, Paul M., assignor.)
Tornoe, John A., assignor to Schlage Lock Company, San Francisco, Calif. Doorknob. 132,609; June 2.
Vaughn, Paul W., et al. (See Allen, Paul M., assignor.)
West Coast Sales Incorporated. (See Gross, Joseph M., assignor.)
Wilcox, George R., assignor to Millers Falls Company, Greenfield, Mass. Press drill or the like. 132,603; June 2.
Zahn, Samuel, New York, N. Y. Dress ensemble. 132,650; June 2.
Zahn, Samuel, New York, N. Y. Dress. 132,651; June 2.
Zendman, Isaac Jr., New York, N. Y. Lace. 132,657; June 2.
Zuckerman, Isidore, New York, N. Y. Water faucet filter. 132,610; June 2.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 2D DAY OF JUNE, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abendroth, Erich, Berlin, Germany, assignor to General Electric Company. Electric condenser. 2,285,136; June 2.
Adkison, James H., Tulsa, Okla., assignor to The Dow Chemical Company, Midland, Mich. Completing wells. 2,284,969; June 2.
Adler, Benjamin H., Chicago, Ill. Sign. 2,284,626; June 2.
Ahlberg, Jacob E. (See Thomas, C. L., and Ahlberg.)
Ahrens, Robert S., assignor to Seeger Refrigerator Company, St. Paul, Minn. Refrigerator shelf. 2,285,137; June 2.
Ainsworth, Thomas H., Drexel Hill, Pa., assignor to General Steel Castings Corporation, Granite City, Ill. Locomotive driving wheel center. 2,285,138; June 2.
Air Reduction Company. (See Anderson, James L., assignor.)
Air Reduction Company. (See Mautz, F. R., and Smith, assignors.)
Aktiengesellschaft Brown, Boveri & Cie. (See Ludi, Fritz, assignor.)
Alden, Carroll R., assignor to Ex-Cell-O Corporation, Detroit, Mich. Nozzle. 2,284,627; June 2.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Electric motor control system. 2,285,182; June 2.
Allen, Kenneth C., Dayton, assignor to The Hobart Manufacturing Company, Troy, Ohio. Mill for granulating and pulverizing coffee. 2,284,789; June 2.
Allen, Roy A. B., Jr., Dallas, Tex. Air flow control. 2,284,938; June 2.
Allin, George S., assignor to Isaacson Iron Works, Seattle, Wash. Wheeled track replacement units for tractors. 2,284,790; June 2.
Allmanna Svenska Elektriska Aktiebolaget. (See Hansson, Bror, assignor.)
Allyne, Edmund E., Cleveland, assignor to Allyne Laboratories, Inc., Cleveland, Ohio. Absorption refrigerating apparatus. 2,284,791; June 2.
Allyne Laboratories, Inc. (See Allyne, Edmund E., assignor.)
Almgren, August E. (See Hothersall, J. M., and Almgren.)
Almgren, August E., Hillside, N. J., assignor to American Can Company, New York, N. Y. Can marking machine. 2,284,628; June 2.
Aluminum Goods Manufacturing Company. (See Boose, Elmer S., assignor.)
Aluminum Goods Manufacturing Company. (See Haugh, Earl W., assignor.)
American Brake Shoe and Foundry Company, The. (See Mantle, Burr Warr, assignor.)
American Can Company. (See Almgren, August E., assignor.)
American Can Company. (See Cox, H. F., Jr., and Hill, assignors.)
American Can Company. (See Hothersall, J. M., and Almgren, assignors.)
American Cast Iron Pipe Company. (See Moore, William D., assignor.)
American Engineering Company. (See Myers, Charles L., assignor.)
American Seating Company. (See Hanson, W. M., and Bennett, assignors.)
Anchor Hocking Glass Corporation. (See Bell, William D., assignor.)
Anderson, James L., Closter, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Pipe cutting machine. 2,284,711; June 2.
Anderson, Nels A., Stockton, assignor to Fibreboard Products, Inc., San Francisco, Calif. Blank handling machine. 2,284,792; June 2.
Anderson, Nels A., Stockton, assignor to Fibreboard Products, Inc., San Francisco, Calif. Stitcher mechanism. 2,284,793; June 2.
Anderson, Peter A., assignor to Utilities Distributors, Inc., Portland, Maine. Backplate for gas installation housings. 2,284,712; June 2.
Anderson, Stanley, assignor to Crane Co., Chicago, Ill. Electrical discharge apparatus for spectographic analysis and the like. 2,285,322; June 2.
Andres, Lloyd J., Chicago, Ill. Record holder. 2,285,139; June 2.
Andrews and Goodrich, Inc. (See Hansen, Edwin H., assignor.)
Apex Electrical Manufacturing Company, The. (See Racklyeft, John W., assignor.)
Arc Diaphragm & Drug Co. (See Arneill, James R., Jr., assignor.)
Arch-Rib Floors, Incorporated. (See Logeman, Roland A., assignor.)
Arneill, James R., Jr., assignor to Arc Diaphragm & Drug Co., Denver, Colo. Demonstrating device for vaginal diaphragms. 2,284,888; June 2.
Ashley, Carlyle M., and J. Swinburne, assignors to Carrier Corporation, Syracuse, N. Y. Air conditioning apparatus. 2,285,075; June 2.
Aske, Irving E., Muskegon, Mich. Cooling system for internal combustion engines. 2,285,248; June 2.
Asnard, Remi C., San Francisco, Calif. Drain cleaner. 2,284,939; June 2.
Associated Electric Laboratories, Inc. (See Jones, Roy W., assignor.)
Atlantic Refining Company, The. (See Marks, Ernest M., assignor.)
Atlas Powder Company. (See Taylor, Walter A., assignor.)
Auer, John, East Norwalk, Conn. Hat block. 2,285,074; June 2.
Autocall Company, The. (See Harrington, J. R., and Smith, assignors.)
Autogiro Company of America. (See Bennett, James A. J., assignor.)
Automotive Products Company. (See Gates, Geoffray R. G., assignors.)
Avery, George S., Jr., New London, Conn., assignor to The Dow Chemical Company, Midland, Mich. Growth control and carrier. 2,284,970; June 2.
Axe, Roy T., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Double window construction. 2,285,003; June 2.
Ayres, Fred D. (See Muskat, I. E., and Ayres.)
Baak, Albert E., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Snap action device. 2,284,940; June 2.
Baash-Ross Tool Company. (See Johnson, Glenn D., assignor.)
Bacher, Ella, née László, Paris, France. Massage apparatus. 2,285,105; June 2.
Backhouse, Headley T., London, England. Sheet feeder. 2,285,076; June 2.
Bailey Meter Company. (See Johnson, Clarence, assignor.)
Baker, David B., Riverside, C. R. Rogers, Oak Park, and W. O. Bechman, Chicago, Ill., assignors to International Harvester Company. Tractor. 2,284,713; June 2.
Baker, Edwin M., Ann Arbor, assignor to Houdaille-Hershey Corporation, Detroit, Mich. Nickel plating. 2,284,629; June 2.
Bakken, Andrew H. (See Rawlins, H. L., and Bakken.)
Banks, Lillian, New York, N. Y., assignor of one-third to C. M. Palmer, Washington, D. C., and one-third to J. R. Iander, Brooklyn, N. Y. Composite optical carrier. 2,284,630; June 2.
Barentzen, Walter E., New York, N. Y. Pinking implement. 2,285,249; June 2.
Barnes, Thomas D., West Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical measuring instrument. 2,284,893; June 2.
Barney, Harold L., Leonia, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Relay switching circuits. 2,284,617; June 2.
Barriball, Robert H., Cleveland, Ohio. Manhole step. 2,285,004; June 2.
Barrows, Donald S., and C. I. Lusink, assignors to The Symington-Gould Corporation, Rochester, N. Y. Side bearing. 2,285,140; June 2.
Batesville Casket Company, The. (Se Purkiss, Robert B., assignor.)
Baughman, Bernice G., administratrix. (See Johnson, E. H., and Baughman.)
Baughman, Samuel. (See Johnson, E. H., and Baughman.)
Bayer, Otto. (See Rosch, G., Bayer, and Hoyer.)
Bean, Roscoe D. (See Harrison, T. R., and Bean.)
Beauchamp, Wilfred A., Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Sliding car door. 2,285,078; June 2.
Beaver, David J., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Vulcanization accelerator. 2,285,077; June 2.
Bechman, William O. (See Baker, D. B., Rogers, and Bechman.)
Beckwith Manufacturing Company. (See Lovell, Stanley P., assignor.)
Beckwith Manufacturing Company. (See Straw, Harry H., assignor.)
Bedford, Alda V., Collingswood, N. J., assignor to Radio Corporation of America. Television system. 2,284,714; June 2.

Bedford, Burnice D., Schenectady, N. Y., assignor to General Electric Company. Electric circuits. 2,284,794; June 2.
Beech-Nut Packing Company. (See Martin, William T., assignor.)
Beekley, Henry L., Glen Ellyn, R. H. Gilbert, and R. H. Lacart, Chicago, Ill., assignors to The Electrimatic Corporation. Automatic valve. 2,285,323; June 2.
Behre, Günther, Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Electromagnetic sound-reproducing device. 2,285,079; June 2.
Belaef, Nikolai, assignor to Mason-Neilan Regulator Company, Boston, Mass. Control mechanism. 2,284,795; June 2.
Bell Aircraft Corporation. (See Carson, George, assignor.)
Bell, Albert O. (See Hall, W. P-G., Person, Bell, and Vinal.)
Bell Telephone Laboratories, Incorporated. (See Barney, Harold L., assignor.)
Bell Telephone Laboratories, Incorporated. (See Christensen, Carl J., assignor.)
Bell Telephone Laboratories, Incorporated. (See Edwards, William H., assignor.)
Bell Telephone Laboratories, Incorporated. (See Holden, W. H. T., and Lewis, assignors.)
Bell Telephone Laboratories, Incorporated. (See Kelsay, Le Roy W., assignor.)
Bell Telephone Laboratories, Incorporated. (See Mason, Warren P., assignor.)
Bell Telephone Laboratories, Incorporated. (See Melick, John M., assignor.)
Bell Telephone Laboratories, Incorporated. (See Sivian, L. J., and Wente, assignors.)
Bell Telephone Laboratories, Incorporated. (See West, Julian M., assignor.)
Bell, William D., Columbus, assignor to Anchor Hocking Glass Corporation, Lancaster, Ohio. Method and apparatus for sealing containers. 2,284,631; June 2.
Benard, Fred. (See Welblund, A., and Benard.)
Bendix Aviation Corporation. (See Bohli, Jakob, assignor.)
Bendix Aviation Corporation. (See Dodge, Adiel Y., assignor.)
Bendix Aviation Corporation. (See Schrak, William A. assignor.)
Bendix Aviation Corporation. (See Strebinger, Robert L., assignor.)
Bendix Aviation Corporation. (See White, John W., assignor.)
Bendix Products Corporation. (See Goepfrich, Rudolph, assignor.)
Benham, William T. (See Clarkson, R. H., and Benham.)
Benner, Raymond C., and R. L. Melton, assignors to The Carborundum Company, Niagara Falls, N. Y. Abrasive article. 2,284,715; June 2.
Benner, Raymond C., and R. L. Melton, assignors to The Carborundum Company, Niagara Falls, N. Y. Manufacture of abrasive articles. 2,284,716; June 2.
Benner, Roland G. (See Henke, C. O., Benner, and Jones.)
Bennett, Alexander E., New York, N. Y. Check valve operator. 2,285,324; June 2.
Bennett, Henry E. (See Hanson, W. M., and Bennett.)
Bennett, James A. J., Esher, England, assignor to Autogiro Company of America, Philadelphia, Pa. Aircraft sustaining rotor. 2,284,717; June 2.
Bennett, Robert M., Ithan, Pa., assignor to General Electric Company. Gas blast electric circuit breaker. 2,284,856; June 2.
Bennett, Robert M., Ithan, Pa., assignor to General Electric Company. Gas blast electric circuit breaker. 2,284,857; June 2.
Benoit, Joseph P., Alton, Ill., assignor to Owens-Illinois Glass Company. Knife operating mechanism for glass blowing machines. 2,285,325; June 2.
Berge, Joseph M., assignor to E. D. Williamson, Detroit, Mich. Lock nut. 2,285,080; June 2.
Bergmann, Ernst R., Evergreen Park, assignor to Goodman Manufacturing Company, Chicago, Ill. Drive mechanism for shaker conveyers. 2,284,718; June 2.
Bergsma, Alvin L., assignor to J. C. Miller Company, Grand Rapids, Mich. Rod mounting. 2,284,941; June 2.
Bergtholdt, George C., Jr., assignor to Webster Engineering Company, Tulsa, Okla. Safety pilot. 2,285,326; June 2.
Bergtold, Fritz, Munich, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Arrangement for controlling the inductances of loop antenna. 2,284,719; June 2.
Bernardi, Dominic J., Astoria, assignor to Interchemical Corporation, New York, N. Y. Method of drying ink. 2,285,183; June 2.
Berthold, Hans, Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Lorenzweg, Germany. Direction finding receiver. 2,285,081; June 2.
Berthold, Walter K., Rockville, assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for and method of forming and treating glassware. 2,284,796; June 2.
Beryllium Corporation, The. (See Kawecki, H. C., and Martin, assignors.)
Betts, John R., Aurora, Nebr. Centrifugal pump. 2,284,632; June 2.
Biebel, Herman M., assignor to McGraw Electric Company, Elgin, Ill. Automatic electric toaster. 2,285,141; June 2.
Biefeld, Karl, Frei-Enwalde, Oder, Germany, and E. Krebs, Paris, France. Manufacture of nonmetallic resistance material. 2,284,858; June 2.
Binks Manufacturing Company. (See Lots, August J., assignor.)
Binon, Georges, New York, N. Y., assignor, by mesne assignments, to F. E. Wolcott, West Hartford, Conn. Food dispensing device. 2,284,720; June 2.
Bioform Dental Corporation. (See Tryfus, Frederic, assignor.)
Bischoff, Louis. (See Jaeger, E. T., Loeffler, Jr., and Bischoff.)
Bixby, Carl L., Berrien Springs, assignor to Clark Equipment Company, Buchanan, Mich. Transmission. 2,285,142; June 2.
Bixby, Leo A., Niles, and R. Lapsley, Berrien Springs, assignors to Clark Equipment Company, Buchanan, Mich. Transmission. 2,285,106; June 2.
Bjering, Olav. (See Hohl, J., Bjering, and Whittler.)
Blair, Lyman C., Houston, Tex. Scissors. 2,284,859; June 2.
Blau, Henry H., and K. K. Knaell, Charlerol, Pa., assignors, by mesne assignments, to The Carborundum Company, Niagara Falls, N. Y. Furnace construction and repair. 2,284,797; June 2.
Bliley Electric Company. (See Wolfskill, John M., assignor.)
Bliss, E. W., Company. (See Rode, F. J., and Hatch, assignors.)
Boeye, Paul F., assignor to Waldorf Paper Products Company, St. Paul, Minn. Box. 2,284,942; June 2.
Bohli, Jakob, Solothurn, Switzerland, assignor to Bendix Aviation Corporation, South Bend, Ind. Ignition apparatus. 2,285,107; June 2.
Bohn Aluminum & Brass Corporation. (See McCullough, W. E., and Goerke, assignors.)
Bokovoy, Samuel A., Audubon, N. J., assignor to Radio Corporation of America. Mounting piezoelectric elements. 2,285,143; June 2.
Bolt, Malon C., assignor of forty-nine one-hundredths to C. M. Jennelle, Radford, Va. Track lubricator. 2,285,082; June 2.
Bonsall, Charles D., Pittsburgh, Pa., assignor, by mesne assignments, to Standard Railway Devices Company. Railway car construction. 2,284,721; June 2.
Boose, Elmer S., Two Rivers, assignor to Aluminum Goods Manufacturing Company, Manitowoc, Wis. Handle. 2,284,798; June 2.
Borm, Ferdinand H., Elgin, Ill. Body and fender hammer. 2,285,005; June 2.
Bosch, Lester L., Cincinnati, Ohio. Controlling vehicular traffic. 2,284,633; June 2.
Bousquet, Euclid W., Wilmington, and H. G. Guy, Newark, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Pest control. 2,285,184; June 2.
Bowser, Roy S., Syracuse, N. Y. Tachometer generator. 2,285,006; June 2.
Boynton, Alexander, San Antonio, Tex. Pneumatic piston pump, differential type. 2,284,634; June 2.
Brace, Kemper P., South Bend, and H. J. Herzog, Mishawaka, Ind. Electric sifter. 2,284,943; June 2.
Bradley, Alan L. (See Douglas, M., Bradley, and Chesters.)
Bratt, Knut F. (See Vigborg, K. M., and Bratt.)
Bregou, Louis V., Worcester, Mass. Pinless hair waving device. 2,285,144; June 2.
Brennan, Ambrose K., York, Pa., and J. M. Jans, Moorestown, N. J., assignors to Read Machinery Company, Inc., York, Pa. Shaft seal. 2,285,007; June 2.
Bridgeport Brass Company. (See Broecker, Lewis C., assignor.)
Bristol Aeroplane Company Limited, The. (See Marples, E. I. B., and Gorrell, assignors.)
Bristol Aeroplane Company Limited, The. (See Nixon, F., and Marples, assignors.)
Broecker, Lewis C., Nichols, assignor to Bridgeport Brass Company, Bridgeport, Conn. Pneumatic valve. 2,284,971; June 2.
Bronson, Adelbert E., Shaker Heights, assignor to The Dill Manufacturing Company, Cleveland, Ohio. Valve stem. 2,285,008; June 2.
Brown Instrument Company, The. (See Harrison, Thomas R., assignor.)
Brown Instrument Company, The. (See Harrison, T. R., and Bean, assignors.)
Brown Instrument Company, The. (See Jones, Harry S., assignor.)
Brown Instrument Company, The. (See Krogh, Aker E., assignor.)
Brown, Ned C. L., Scottsville, N. Y., assignor to General Railway Signal Company. Car retarder for railroads. 2,285,327; June 2.
Brownstein, Raymond G., Ellwood City, Pa. Lubricant distributor. 2,284,799; June 2.
Brubaker, Merlin M., W. E. Hanford, and R. H. Wiley, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Interpolyamide. 2,285,009; June 2.
Bruce, S. S., et al., as trustees. (See Morgan, Thomas H., assignor.)

Bruning, Edward F., Santa Ana, Calif. Surgical sheet. 2,284,944; June 2.
Brunner, Robert L. (See Burns, Jake C., assignor.)
Bryant, Charles L., assignor to C. L. Bryant Corporation, Cleveland, Ohio. Air conditioning apparatus. 2,285,108; June 2.
Bryant, C. L., Corporation. (See Bryant, Charles L., assignor.)
Buchi, Alfred J. (See Fuliemann, Johann, assignor.)
Bucklen-Bear Laboratories, Inc. (See Hedin, Uno C., assignor.)
Buda, John J., Jr., Brookfield, Ill. Electric testing device for contacts. 2,285,194; June 2.
Budd, Edward G., Manufacturing Company. (See Ragsdale, Earl J. W., assignor.)
Budd, Edward G., Manufacturing Company. (See Trautvetter, George, assignor.)
Buehler, Allan M., assignor to Eastern Steel Products Limited, Preston, Ontario, Canada. Door mounting. 2,285,011; June 2.
Bullock, Giles E., Rochester, N. Y. Valve operating means. 2,285,010; June 2.
Bundy Tubing Company. (See Katz, Albert, assignor.)
Bureau, Arthur A., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Lagging for reels. 2,285,185; June 2.
Burger, Michael J., South Ozone Park, N. Y., assignor to Western Electric Company, Incorporated. Electric wave amplifier. 2,284,894; June 2.
Burke, Mark P., Long Beach, Calif. Displacement valve gas lift. 2,285,109; June 2.
Burkey Underwear Company. (See Burkey, William A., assignor.)
Burkey, William A., assignor to Burkey Underwear Company, Inc., Hamburg, Pa. Elastic-belt garment and making same. 2,285,012; June 2.
Burns, Jake C., assignor of one-half to R. L. Brunner, Grand Junction, Colo. Grinding machine. 2,284,722; June 2.
Burns, Joseph E., Syracuse, N. Y. Cutlery. 2,285,013; June 2.
Burt, George H., Metairie, La., assignor to The Celotex Corporation, Chicago, Ill. Conveyer chain and lubricating the same. 2,285,145; June 2.
Butler, Clyde G., assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio. Forming a coupling. 2,285,014; June 2.
Bryant Heater Company, The. (See Higley, Frank R., assignor.)
Cain, Bernard M., Marblehead, Mass., assignor to General Electric Company. Centrifugal switch. 2,285,186; June 2.
Calderazzo, Dominick. (See Jayne, Bennett, assignor.)
California Cotton Mills Company. (See Olsen, Burton A., assignor.)
Camfield, William H., Newark, N. J. Dry shaver. 2,285,015; June 2.
Campbell, Nelson S., Brookline, Mass. Staple fiber preparation. 2,284,635; June 2.
Campbell, Willard S., Hampshire, assignor, by mesne assignments, to Cherry-Burrell Corporation, Chicago, Ill. Cover and can handling device. 2,285,187; June 2.
Carborundum Company, The. (See Benner, R. C., and Melton, assignors.)
Carborundum Company, The. (See Blau, H. H., and Knaell, assignors.)
Carlisle, Richard W., Elmsford, N. Y. Synchonizing system. 2,285,016; June 2.
Carlsen, Leonard O., assignor to Gleason Works, Rochester, N. Y. Method of and apparatus for cutting gears. 2,284,636; June 2.
Carrier Corporation. (See Ashley, C. M., and Swinburne, assignors.)
Carrier Corporation. (See MacDonald, William H., Jr., assignor.)
Carson, George, assignor to Bell Aircraft Corporation, Buffalo, N. Y. Work support and hold-down mechanism. 2,284,972; June 2.
Carter, W. S. (See Taylor, Ewing H., assignor.)
Cartier, Inc. (See Pujol, Albert J., assignor.)
Case, Harold, New York, N. Y. Normalizing and tempering oven. 2,285,250; June 2.
Catlin, Willard E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymeric carbamates and their preparation. 2,284,637; June 2.
Celanese Corporation of America. (See Elvin, W. J., Reel and Stahl, assignors.)
Celotex Corporation, The. (See Burt, George H., assignor.)
Century Motors Corporation. (See Dusevoir, Julius, assignor.)
Chamberlain, Inc. (See Francis, John G., assignor.)
Chandler, Homer P., assignor to The Ohio Brass Company, Mansfield, Ohio. Cable connector. 2,284,945; June 2.
Chaney, Mont M., Fort Wayne, Ind., assignor to Phelps Dodge Copper Products Corporation, Dover, Del. Form varnish die. 2,284,946; June 2.
Chase Brass & Copper Co., Incorporated. (See McGarry, James W., assignor.)
Cheetham, Harold C. (See Rothrock, D. A., and Cheetham.)
Cherry-Burrell Corporation. (See Campbell, Willard S., assignor.)
Chessin, Alexander, Yonkers, N. Y. Convertible garment. 2,284,723; June 2.
Chesson, Andrew J., Miami, Fla. Water treating apparatus. 2,284,618; June 2.
Chesters, John Hugh. (See Douglas, M., Bradley and Chesters.)
Chirelstein, Nathan, Chicago, Ill. Socket for pin base lamps and tubes. 2,285,146; June 2.
Christensen, Carl J., Flushing, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Coating apparatus. 2,285,017; June 2.
Chrysler Corporation. (See Rogers, Harry M., assignor.)
Church, Clifford C., Needham, Mass. Making jointed toys and other articles. 2,284,724; June 2.
Cincinnati Ball Crank Company, The. (See Butler, Clyde G., assignor.)
Cinema-Television Limited. (See Samson, Kurt A. R., assignor.)
Cinema-Television Limited. (See Sommer, Alfred, assignor.)
Cities Service Oil Company. (See Griswold, R. G., and Wydler, assignors.)
Clark Equipment Company. (See Bixby, Carl L., assignor.)
Clark Equipment Company. (See Bixby, L. A., and Lapsley, assignors.)
Clark Equipment Company. (See Williams, Alfred O., assignor.)
Clark, Frances H., New York, and R. F. Dirkes, Jamaica, N. Y. Metallurgy of ferrous metals. 2,284,638; June 2.
Clarkson, Raymond H., Science Hill, Ky., and W. T. Benham, Norwood, Ohio, assignors to The Mosler Lock Company, Covington, Ky. Antilockout time lock. 2,285,328; June 2.
Clayton Manufacturing Company. (See Kerrick, Walter B., assignor.)
Cleminson, Haldane, Chicago, Ill. Packaged suture and apparatus for packaging the same. 2,284,725; June 2.
Clerc, Leonard F., Chicago, Ill. Refrigerated display cabinet. 2,285,110; June 2.
Cleveland Graphite Bronze Company, The. (See Wilkey, John E., assignor.)
Cleveland Tractor Company, The. (See Heaslet, James G., assignor.)
Cleveland Tungsten, Inc. (See Mansfield, William E., assignor.)
Clifford, James J., Reading, assignor to Stedfast Rubber Company, Inc., Mattapan, Mass. Heat insulating insole. 2,284,947; June 2.
Close, John W., Lombard, assignor to United Wall Paper Factories, Inc., Chicago, Ill. Adhesive and method of making. 2,284,800; June 2.
Cobbs, John J., Roanoke, Va. Cigarette opener and carrier. 2,285,188; June 2.
Cochran, Clyde E., Cleveland, Ohio, assignor to the Elwell-Parker Electric Company. Industrial truck. 2,285,251; June 2.
Cochrane, Charles P., Co. (See Gebert, Russell C., assignor.)
Coes, Loring, Jr., Brookfield, Mass., assignor, by mesne assignments to E. I. du Pont de Nemours & Company, Wilmington, Del. Copolymers containing ethylidene diacrylate or dimethacrylate. 2,284,639; June 2.
Coffman, Roscoe A., Hollywood, Calif. Breech mechanism for power generating units. 2,284,640; June 2.
Coldren, Howard B. (See Murphy, J. C., and Coldren.)
Coleman, Gerald H., and R. W. Sapp, assignors, to the Dow Chemical Company, Midland, Mich. Preparation of 2-chloroallyl compounds. 2,285,329; June 2.
Collins, Paul O. (See Maynard, J. E., and Collins.)
Colombo, Achille, Rome, Italy. Silent typewriting machine. 2,285,018; June 2.
Combs, Charles A., Kansas City, Mo. Rotary pump. 2,284,948; June 2.
Combustion Engineering Company, Inc. (See Hamilton, Robert, assignor.)
Conger, Herbert A., Glendale, Calif. Commodity carrier. 2,284,801; June 2.
Conrad, Nicholas J., Winnetka, assignor, to Schweitzer & Conrad, Inc., Chicago, Ill. Circuit interrupting apparatus. 2,285,252; June 2.
Consler, Ralph J. (See Mayer, C. W., Lueders and Consler.)
Consolidated Packaging Machinery Corporation. (See Gantzer, Howard E., assignor.)
Continental Oil Company. (See Dyer, J. G., and Wilkinson, assignors.)
Cook, Willard G., Wilkinsburg, assignor, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Control system. 2,284,802; June 2.
Corhart Refractories Company. (See Fulcher, Gordon S., assignor.)
Corley, John T., Providence, R. I. Shutoff valve. 2,285,111; June 2.
Corley, Mark H., and J. A. Heckman, assignors to Miller Wrapping and Sealing Machine Company, Chicago, Ill. Package sealing machine. 2,285,253; June 2.
Cornock, Edward F., assignor, to Package Machinery Company, Springfield, Mass. Making packages provided with tearing strips. 2,285,189; June 2.
Coulter, Mark, Sharon, Pa. Wire reeling machine. 2,284,726; June 2.

Cover, Berkey E., Sr., Chicago, Ill., assignor, by mesne assignments, to Electra-Voice Corporation, Wilmington, Del. Two-way radio garment. 2,285,083; June 2.
Cover, Harvey S., South Bend, Ind. Respirator. 2,284,949; June 2.
Cox, Herbert F., Jr., Madison, N. J., and H. M. Hill, Bayside, assignors, to American Can Company, New York, N. Y. Heating and conveying machanism. 2,284,641; June 2.
Craig, Wallace A. and P. C. Rich, assignors to Richfield Oil Corporation, Los Angeles, Calif. Petroleum refining. 2,285,190; June 2.
Crane Co. (See Anderson, Stanley, assignor.)
Crane Co. (See Marchand, E. W., Jr., Fredrickson, and Zinkil, assignors.)
Crane Co. (See Schipplock, Charles J., assignor.)
Crary, Selden B., Schenectady, N. Y., assignor to General Electric Company. Automatic reclosing circuit breaker equipment. 2,285,191; June 2.
Crary, Selden B., Schenectady, N. Y., assignor to General Electric Company. Control equipment. 2,285,192; June 2.
Crosman, Loring P., South Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Listing adding machine. 2,284,803; June 2.
Cunningham, William A. (See Schoch, E. P., and Cunningham.)
Cunnington, George R., assignor to National Automotive Fibres, Inc., Detroit, Mich. Making decorated fabric. 2,284,727; June 2.
Cutler-Hammer, Inc. (See Kuhn, C. W., Rosing and Stevens, assignors.)
Czajka, John, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Work holder. 2,285,148; June 2.
Czapek, Emil, assignor to Guaranty Trust Company of New York, N. Y. Manufacturing foils, films, and the like. 2,285,147; June 2.
D'Arcey, John, Swampscott, Mass. Ice-cooling muddler, method of making. 2,285,149; June 2.
Da Silva, Bertino D., New York, N. Y. Shoe construction. 2,285,254; June 2.
Davis, Lewis R. (See Hall, O. F., and Davis.)
Davis, Lloyd W., Bloomfield, assignor to National Oil Products Company, Harrison, N. J. Filament testing apparatus. 2,285,255; June 2.
Davis, Louis, Corpus Christi, Tex. Pressure pump for oil wells. 2,285,256; June 2.
Dayhuff, Walter C., and J. E. Laurance, Whittier, assignors to Standard Oil Company of California, San Francisco, Calif. Recovery of gasoline from natural gas. 2,284,973; June 2.
Dayton Steel Foundry Company, The. (See Walther, G., and Leslie, assignors.)
De Angelis, Frank T., West Brighton, assignor to L. A. Dreyfuss Company, Staten Island, N. Y. Chewing gum base and preparing same. 2,284,804; June 2.
De Bella, Frank, Newark, and T. F. De Bella, Elisabeth, N. J. Ferrule pinning machine. 2,285,380; June 2.
De Bella, Thomas F. (See De Bella, Frank and T.)
Decker, Leonard, Cincinnati, Ohio. Pneumatic cleaner for locomotive sand pipes. 2,284,805; June 2.
De Laney, William E., Willow Grove, Pa. Collar clip. 2,284,806; June 2.
Denner, Francis H., Dover, N. J. Support for projectiles. 2,284,642; June 2.
Detrick, Stanley R., Wilmington, Del., and R. T. Diver, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of phthalocyanine pigments. 2,284,685; June 2.
Deutsch Celluloidfabrik Aktiengesellschaft. (See Thinius, Kurt, assignor.)
Deutsche Hollerith Maschinen Gesellschaft m. b. H. (See Maul, Michael, assignor.)
De Yette, Clarence E., Los Angeles, Calif. Processing film. 2,285,019; June 2.
Dictaphone Corporation. (See Norton, L. D., and Renholdt, assignors.)
Dictaphone Corporation. (See Petruschell, Lucius P., assignor.)
Dill Manufacturing Company, The. (See Bronson, Adelbert E., assignor.)
Dimond, Lloyd E., and W. L. Hicks, assignors to C. Marx, Chicago, Ill., a trustee. Reaction product of water-soluble degraded proteins with phenols and aldehydes. 2,285,193; June 2.
Dirkes, Robert F. (See Clark, F. H., and Dirkes.)
Dirrig, Ollie L., Los Angeles, Calif. Enclosed self-locking cageless roller bearing. 2,284,950; June 2.
Disston, Henry, & Sons, Incorporated. (See Thompson, Charles M., assignor.)
Ditto, Incorporated. (See Kokay, Stephen, assignor.)
Ditto, Incorporated. (See Morrison, Robert F., assignor.)
Ditto, Incorporated. (See Williams, Robert A., assignor.)
Diver, Robert T. (See Detrick, S. R., and Diver.)
Dodge, Adiel Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake. 2,285,257; June 2.
Dodge, Ralph L. (See Wardenburg, F. A., and Dodge.)
Dohsmann, Werner, and A. Leyn, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Push button for radio apparatus. 2,285,374; June 2.
Doman, John P., Los Angeles, Calif. Hinge. 2,284,951; June 2.
Donahoo, William T., Gadsden, and O. A. Phillips, Anniston, Ala. Tape cutter. 2,284,807; June 2.
Dorton, John M., Bonner Springs, Kans. Adjustable chair. 2,285,112; June 2.
Doty, Charles R., Yonkers, assignor to International Business Machines Corporation, New York, N. Y. Line position control device for paper forms. 2,285,258; June 2.
Douglas, Mark, and A. L. Bradley, Worksop, and J. H. Chesters, Sheffield, England. Manufacture of basic refractories. 2,285,020; June 2.
Dow Chemical Company, The. (See Adkison, James H., assignor.)
Dow Chemical Company, The. (See Avery, George S., Jr., assignor.)
Dow Chemical Company, The. (See Coleman, G. H., and Sapp, assignors.)
Dowden, Percy R., East Cowes, Isle of Wight, and H. Knowler, Wootton, Isle of Wight, assignors to Saunders-Roe Limited, East Cowes, Isle of Wight, England. Lateral stabilizer for flying boats and amphibians. 2,285,330; June 2.
Downing, Frederick B., Carney's Point, N. J., A. M. Neal, Wilmington, Del., and C. J. Pedersen, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preservation of rubber. 2,285,259; June 2.
Downing, Frederick B., Carney's Point, N. J., A. M. Neal, Wilmington, Del., and C. J. Pedersen, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preservation of rubber. 2,285,260; June 2.
Doyle, Frank B., Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y. Apparatus for treating organic material. 2,285,331; June 2.
Doyle, John T., assignor of two-fifths to E. W. Heintselman, Dwyer, Wyo. Rail fastening. 2,284,643; June 2.
Dreyfus, Camille, New York, N. Y. Braid. 2,284,728; June 2.
Dreyfuss, L. A., Company. (See De Angelis, Frank T., assignor.)
Duane, John P., Wilmington, Del. Apparatus for sorting cards. 2,284,808; June 2.
Dubilier, William, New York, N. Y. Electric switch. 2,284,644; June 2.
Duey, Harold P., Los Angeles, Calif. Dispenser. 2,284,952; June 2.
Duffy, Charles H., Miami, Fla. Air pump or compressor. 2,284,645; June 2.
Du Pont, E. I., de Nemours & Company. (See Bousquet, E. W., and Guy, assignors.)
Du Pont, E. I., de Nemours & Company. (See Brubaker, M. M., Hanford, and Wiley, assignors.)
Du Pont, E. I., de Nemours & Company. (See Catlin, Willard E., assignor.)
Du Pont, E. I., de Nemours & Company. (See Coes, Loring, Jr., assignor.)
Du Pont, E. I., de Nemours & Company. (See Detrick, S. R., and Diver, assignors.)
Du Pont, E. I., de Nemours & Company. (See Downing, F. B., Neal, and Pedersen, assignors.)
Du Pont, E. I., de Nemours & Company. (See Hall, W. P-G., Person, Bell, and Vinal, assignors.)
Du Pont, E. I., de Nemours & Company. (See Hanford, W. E., and Holmes, assignors.)
Du Pont, E. I., de Nemours & Company. (See Henke, C. O., Benner, and Jones, assignors.)
Du Pont, E. I., de Nemours & Company. (See Patterson, Gordon D., assignor.)
Du Pont, E. I., de Nemours & Company. (See Pritz, Richard E., assignor.)
Du Pont, E. I., de Nemours & Company. (See Seidel, George R., assignor.)
Du Pont, E. I., de Nemours & Company. (See Weinmayer, Viktor, assignor.)
Du Pont, E. I., de Nemours & Company. (See Williams. Ki, assignor.)
Dusevoir, Julius, assignor to Century Motors Corporation, Dearborn, Mich. Casting finned cylinder heads. 2,284,729; June 2.
Dyer, Joseph G., and A. C. Wilkinson, assignors to Continental Oil Company, Ponca City, Okla. Apparatus for transporting oil through pipe lines. 2,284,809; June 2.
E. B. & A. C. Whiting Company. (See Lundgren, Eric, assignor.)
Earp, Jehue R., Chattanooga, Tenn. Tufting attachment. 2,285,021; June 2.
Eastern Steel Products Limited. (See Buehler, Allan M., assignor.)
Eastman Kodak Company. (See Martines, Michele, assignor.)
Eaton, William G., Hull, Mass. Muddling or dunking device. 2,285,113; June 2.
Edison General Electric Appliance Company. (See Kempton, Leslie A., assignor.)
Edwards, Arnold W. (See Lowe, Jack F., assignor.)
Edwards, Martin A., Scotia, N. Y., assignor to General Electric Company. Electrical system. 2,285,195; June 2.
Edwards, O. M., Company, Inc., The. (See Axe, Roy T., assignor.)

Edwards, William H., Great Neck, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone substation apparatus. 2,285,022; June 2.
Eidal, Roy M., Seattle, Wash. Confined spring mounting means. 2,284,646; June 2.
Elastic Stop Nut Corporation. (See Hungerford, Daniel C., assignor.)
Electra-Voice Corporation. (See Cover, Berkey, E., Jr., assignor.)
Electrimatic Corporation, The. (See Beekley, H. L., Gilbert, and Lacart, assignors.)
Ellis, Hamilton P., Fort Sheridan, Ill. Film drying method and apparatus. 2,285,261; June 2.
Elvin, William J., Frostburg, Md., R. D. Reel, Keyser, W. Va., and E. R. Stahl, Meyersdale, Pa., assignors to Celanese Corporation of America. Textile machine. 2,284,730; June 2.
Elwell-Parker Electric Company, The. (See Cochran, Clyde E., assignor.)
Encor Corporation. (See Specht, Harry G., assignor.)
Engel, Karl, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Shoe and making the same. 2,284,810; June 2.
Epstein, Perez, Philadelphia, Pa. Welding flux. 2,284,619; June 2.
Estaque, Theodore J., Los Angeles, Calif. Brake. 2,285,196; June 2.
Ewald, Raymond L., Olympia, Wash., assignor to Special Equipment Company, Portland, Oreg. Fruit feeding apparatus. 2,284,647; June 2.
Euth, John E., Chicago, Ill., assignor to United Autographic Register Co. Feeding unit for tabulating machines. 2,285,197; June 2.
Ex-Cell-O-Corporation. (See Alden, Carroll R., assignor.)
Fairbanks, Morse & Co. (See Ward, Willard H., assignor.)
Färber, Eduard, assignor to Polyxor Chemical Co., Inc., New Haven, Conn. Resinous derivatives from cellulose and other substances and alcohols. 2,284,860; June 2.
Färber, Eduard, assignor to Polyxor Chemical Co., Inc., New Haven, Conn. Recovery of certain metal salts. 2,284,861; June 2.
Fellroth, Erick O., assignor to Martin Brothers Company, Minneapolis, Minn. Drop seat garment. 2,284,953; June 2.
Fergus, Horace G., Keyport, N. J. Propeller for boats and ships. 2,285,023; June 2.
Ferguson, John B., Wharton, Tex. Sample taking apparatus. 2,285,024; June 2.
Ferngren, Enoch T., Little Neck, N. Y., assignor to Plax Corporation, Hartford, Conn. Apparatus for forming hollow articles from plastic material. 2,285,150; June 2.
Ferrelle, Charles H., Savannah, Ga. Folding table. 2,284,811; June 2.
Ferris, Robert, Minneapolis, Minn. Coffee making apparatus. 2,285,114; June 2.
Fess, Emil, Oberndorf-on-the-Neckar, and W. Schneider, Dessau, Germany, assignors to General Aniline & Film Corporation, New York, N. Y. Process and apparatus for the printing of subtractive multicolor images. 2,285,262; June 2.
Fibreboard Products, Inc. (See Anderson, Nels A., assignor.)
Firestone, Floyd A., Ann Arbor, Mich., assignor to Owens-Illinois Glass Company. Apparatus for measuring capacity. 2,285,151; June 2.
Firestone, Floyd A., Ann Arbor, Mich., assignor to Owens-Illinois Glass Company. Measuring thickness of dielectric materials. 2,285,152; June 2.
Fisher, Gerald M., Los Angeles, Calif., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Destroying algae in cooling towers. 2,284,889; June 2.
Fitch, Clyde J., Endwell, assignor to International Business Machines Corporation, New York, N. Y. Impulse distributor. 2,285,264; June 2.
Fitch, Clyde J., Endwell, N. Y., assignor to International Business Machines Corporation, New York, N. Y. Printing telegraph system. 2,285,265; June 2.
Fitch, Hugh, Fanwood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Forming tool. 2,285,263; June 2.
Fitger, Nicolai, Berlin-Grunewald, Germany, assignor to General Electric Company. Lightning arrester. 2,285,198; June 2.
Flanders, Ralph E., assignor to Jones & Lamson Machine Company, Springfield, Vt. Grinding wheel and truing mechanism feed. 2,284,954; June 2.
Fletcher, Roy W., Evanston, Ill. Adding, subtracting, and accounting machine. 2,285,153; June 2.
Flexnit Company, Inc. (See Martin, Joseph A., assignor.)
Flynn, John J. (See Sewell, L. L., and Flynn.)
Foreman, Walter T., Petersburg, Va. Electric welding apparatus. 2,284,648; June 2.
Francis, John G., assignor to Chamberlain, Inc., Chicago, Ill. Lighting fixture. 2,284,955; June 2.
Fredrickson, Edward A. (See Marchand, E. W., Jr., Fredrickson, and Zinkil.)
Freiburghouse, Edward H., Schenectady, N. Y., assignor to General Electric Company. Dynamoelectric machine. 2,285,199; June 2.
French, Gordon C., Yonkers, N. Y. Pipe opening and flaring tool. 2,285,025; June 2.
Frost, Sherman W., Millbury, assignor to Thomas Smith Company, Worcester, Mass. Razor blade knife. 2,285,155; June 2.
Frost, Theodore B. (See Hensley, Charler G., assignor.)
Fulcher, Gordon S., Chevy Chase, Md., assignor to Corhart Refractories Company, Louisville, Ky. Cast refractory block. 2,285,026; June 2.
Füllemann, Johann, assignor to A. J. Büchi, Winterthur, Switzerland. Impeller for blowers. 2,285,266; June 2.
Gage, Edward G., Brooklyn, assignor of two-thirds to Leon Ottinger, New York, N. Y. Radiant energy distance determining system. 2,284,812; June 2.
Gano, Harlan S. (See Jennings, O. S., and Gano.)
Gans, David M., Bronx, N. Y., and C. Grove, Westfield, N. J., assignors to Interchemical Corporation. New York, N. Y. Manufacturing chrome yellow pigments. 2,285,115; June 2.
Gantzer, Howard E., Kenmore, assignor to Consolidated Packaging Machinery Corporation, Buffalo, N. Y. Container handling apparatus. 2,285,267; June 2.
Gardiner, Laurance E., Stratford, N. J. Automatic telegraph transmitter. 2,285,268; June 2.
Gardner, Frank P., Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Die insert. 2,284,956; June 2.
Garllus, Bernt. (See Knott, F. W., and Garllus.)
Gary, Clarence E., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Switching device. 2,284,813; June 2.
Gasoline Products Company Inc. (See Lobo, Walter E., assignor.)
Gates, Franklin Y., Salt Lake City, Utah. Drive control mechanism for windows. 2,285,027; June 2.
Gates, Geoffrey R. G., assignor to Automotive Products Company Limited, London, England. Hydraulic braking system. 2,284,974; June 2.
Gavin, Thomas A., executor. (See Peirce, John R., deceased.)
Gebert, Russell C., Elkins Park, assignor to Charles P. Cochrane Co., Bridgeport, Pa. Carpet. 2,285,332; June 2.
Gedris, Stanley J., assignor to Ideal Seating Company, Grand Rapids, Mich. Theater seat back. 2,284,957; June 2.
Gelow, Albert J., assignor to The Warren Featherbone Co., Three Oaks, Mich. Trimming dispensing device. 2,285,270; June 2.
General Aniline & Film Corporation. (See Fess, E., and Schneider, assignors.
General Aniline & Film Corporation. (See Rosch, G., Bayer, and Hoyer, assignors.)
General Chemical Company. (See Young, David W., assignor.)
General Electric Company. (See Abendroth, Erich, assignor.)
General Electric Company. (See Alexanderson, Ernst F. W., assignor.)
General Electric Company. (See Bedford, Burnice D., assignor.)
General Electric Company. (See Bennett, Robert M., assignor.)
General Electric Company. (See Cain, Bernard M., assignor.)
General Electric Company. (See Crary, Selden B., assignor.)
General Electric Company. (See Edwards, Martin A., assignor.)
General Electric Company. (See Fitger, Nicolai, assignor.)
General Electric Company. (See Freiburghouse, Edward H., assignor.)
General Electric Company. (See Groot, R. W., and Hemphill, assignors.)
General Electric Company. (See Hall, Chester I., assignor.
General Electric Company. (See Hall, C. I., and Marcellus, assignors.)
General Electric Company. (See Hamilton, Francis A., Jr., assignor.)
General Electric Company. (See Harbison, George C., assignor.)
General Electric Company. (See Heter, Wylie, assignor.)
General Electric Company. (See Hinnüber, Josef, assignor.)
General Electric Company. (See Hobson, Leland S., assignor.)
General Electric Company. (See Johntz, T. E., and Place, assignors.)
General Electric Company. (See Norris, Rollin H., assignor.)
General Electric Company. (See Olsen, Ronald W., assignor.)
General Electric Company. (See Patzschke, W., and König.)
General Electric Company. (See Paul, William E., assignor.)
General Electric Company. (See Pipkin, Marvin, assignor.)
General Electric Company. (See Prince, David C., assignor.)
General Electric Company. (See Prince, D. C., Rankin and Skeats, assignors.)
General Electric Company. (See Roberts, F. M., and Norris, assignors.)

General Electric Company. (See Schenider, Elbert D., assignor.)
General Electric Company. (See Smith, Arthur M., assignor.)
General Electric Company. (See Taubert, George G., assignor.)
General Motors Corporation. (See Harder, Delmar S., assignor.)
General Motors Corporation. (See Miller, Ralph K., assignor.)
General Printing Ink Corporation. (See Sherman, Charles R., assignor.)
General Railway Signal Company. (See Brown, Ned C. L., assignor.)
General Railway Signal Company. (See Swanton, Charles L., assignor.)
General Steel Castings Corporation. (See Ainsworth, Thomas H., assignor.)
General Steel Castings Corporation. (See Travilla, J. C., Jr., and Jackson, assignors.)
Georgi, Edmund A., and A. L. Osterhof, assignors to Hercules Powder Company, Wilmington, Del. Rosin size emulsion. 2,285,028; June 2.
Gilbert, Richard H. (See Beekley, H. L., Gilbert, and Lacart.)
Gilmore, Folliard F., Wellesley, Mass. Penetrator. 2,285,200; June 2.
Ginder, Mabel A., executrix. (See Ginder, William H., assignor.)
Ginder, William H., Haddonfield, N. J., deceased, Mabel A. Ginder, executrix. Heating unit and making same. 2,284,862; June 2.
Gleason Works. (See Carlsen, Leonard O., assignor.)
Gleason Works. (See Wildhaber, Ernest, assignor.)
Glidden Company, The. (See Wahlforss, Eric, assignor.)
Goepfrich, Rudolph, assignor to Bendix Products Corporation, South Bend, Ind. Master cylinder for brakes. 2,285,382; June 2.
Goerke, Edwin O. (See McCullough, W. E., and Goerke.)
Goldsmith, William M., Cincinnati, Ohio. Metal base for building walls. 2,285,084; June 2.
Gomersall, John R., assignor to McGraw Electric Company, Elgin, Ill. Electric toaster. 2,285,156; June 2.
Goodman Manufacturing Company. (See Bergmann, Ernst R., assignor.)
Goodman Manufacturing Company. (See Sloane, William W., assignor.)
Goodrich, B. F., Company, The. (See Nathan, Tracy D., assignor.)
Gookin, Sylvester L., Quincy, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Lacing device. 2,284,814; June 2.
Gorrell, Horace N. (See Marples, E. I. B., and Gorrell.)
Goshaw, Irl G., Beverly Hills, Calif., assignor to Radio Corporation of America. System for the recording of sound. 2,284,731; June 2.
Grabau, William C., Brighton, assignor to Submarine Signal Company, Boston, Mass. Electrical control apparatus. 2,284,649; June 2.
Grabowski, Leon. (See Rupright, Bert A., assignor.)
Grant, Harry C., Jr., New York, N. Y., assignor to Specialties Development Corporation, Bloomfield, N. J. Dispensing device. 2,284,650; June 2.
Grayson, Lauren W., Riverside, Calif. Method of and apparatus for cleaning pipes. 2,285,157; June 2.
Green, Howard D., assignor to MacClatchie Manufacturing Company of California, Compton, Calif. Governor compensator. 2,284,890; June 2.
Grime, Edward P., Huntington Park, Calif. Self-holding jack. 2,284,958; June 2.
Grimm, Karl R., assignor to Warren Paper Products Company, Lafayette, Ind. Miniature package. 2,284,815; June 2.
Griswold, Robert G., and J. J. Wydler, Westfield, N. J., assignors, by mesne assignments, to Cities Service Oil Company, New York, N. Y. Engine supercharging. 2,284,732; June 2.
Grolimund, Joseph M., assignor to H. & A. Selmer, Inc., Elkhart, Ind. Drum vitalizer. 2,285,269; June 2.
Groot, Robert W., and L. F. Hemphill, Fort Wayne, Ind., assignors to General Electric Company. Dynamoelectric apparatus. 2,285,201; June 2.
Grove, Clinton. (See Gans, D. M., and Grove.)
Grupe, William F., Lyndhurst, N. J., assignor, by mesne assignments to Interchemical Corporation, New York, N. Y. Printing plate. 2,285,116; June 2.
Guaranty Trust Company of New York. (See Czapek, Emil, assignor.)
Gulliksen, Finn H., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Permanent hair wave indicator. 2,284,863; June 2.
Gundlach, George P., Cincinnati, Ohio, and B. Morris, Tuscaloosa, Ala., assignors to Joe Lowe Corporation, New York, N. Y. Method of and apparatus for making a varigated ice cream or similar substance. 2,284,651; June 2.
Gusdorf, Frederik H., Eindhoven, Netherlands, assignor to Radio Corporation of America, New York, N. Y. Band-spread tuning mechanism. 2,285,029; June 2.
Gustafson, Algot, Hazel, S. Dak., deceased, by decree of distribution one-half to T. Gustafson and one-half to Le R. Gustafson, heirs. Draft control. 2,284,652; June 2.
Gustafson, Le Roy, et al. (See Gustafson, Algot.)
Gustafson, Tena, et al. (See Gustafson, Algot.)
Guy, Hubert G. (See Bousquet, E. W., and Guy.)
Guyer, Reynolds, and R. J. Hennessey, assignors to Waldorf Paper Products Company, St. Paul, Minn. Carton. 2,284,959; June 2.
Guyer, Reynolds, assignor to Waldorf Paper Products Company, St. Paul, Minn. Match book. 2,284,960; June 2.
Haantjes, Johan, A. van Weel, M. J. O. Strutt, and A. van der Ziel, Eindhoven, Netherlands, assignors to Radio Corporation of America, New York, N. Y. Receiving system. 2,285,030; June 2.
Hackethal, Paul F., Baltimore, Md. Engine heater. 2,284,653; June 2.
Haeff, Andrew V., East Orange, N. J., assignor to Radio Corporation of America. Electron discharge device. 2,284,733; June 2.
Hafner, Louis S., and F. L. Newton, Chicago, Ill. Broiler. 2,285,271; June 2.
Hagen, Wolfgang. (See Wiessner, A., and Hagen.)
Hagen, Wolfgang, Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Carrier frequency apparatus. 2,285,085; June 2.
Hagstrom, Jerome E., Kansas City, assignor to C. Earl Hovey, Kansas City, Mo., trustee. Coin changing machine. 2,285,272; June 2.
Hall, Chester I., Schenectady, N. Y., assignor to General Electric Company. Protective system. 2,285,202; June 2.
Hall, Chester I., Schenectady, and F. S. Marcellus, Scotia, N. Y., assignors to General Electric Company. Condition control system. 2,285,204; June 2.
Hall, Eugene C. and W. M., Glenellyn, assignors to The Paine Company, Chicago, Ill. Retaining device. 2,285,273; June 2.
Hall, Ona F., and L. R. Davis, said Hall assignor to R. T. Neeley, Pico, Calif. Automatic valve. 2,284,961; June 2.
Hall, William M. (See Hall, Eugene C. and W. M.)
Hall, William P.-G., Berwyn, Pa., E. R. Person and A. O. Bell and L. W. Vinal, Leominster, Mass., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Brush bristling machine. 2,285,158; June 2.
Haller, Robert, Riehen, and A. Heckendorn, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Cellulose derivatives containing sulphur and nitrogen and making same. 2,284,962; June 2.
Hamilton, Francis A., Jr., Schenectady, N. Y., assignor to General Electric Company. Control equipment. 2,285,203; June 2.
Hamilton, Francis E. (See Lake, C. D., and Hamilton.)
Hamilton, Robert, Closter, N. J., assignor to Combustion Engineering Company, Inc., New York, N. Y. Return rail key assembly for stokers. 2,284,864; June 2.
Handley, George F., Glendale, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 2,285,086; June 2.
Handley, George F., Glendale, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 2,285,087; June 2.
Hanford, William E., and D. F. Holmes, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Treatment of textiles to impart water-repellence. 2,284,895; June 2.
Hanford, William E., and D. F. Holmes, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Making polymeric products and for modifying polymeric products. 2,284,896; June 2.
Hanford, William E. (See Brubaker, M. M., Hanford, and Wiley.)
Hansen, Edwin H., Braintree, assignor to Andrews and Goodrich, Inc., Dorchester, Mass. Ribbed roll for slashing machines and other textile machines. 2,285,375; June 2.
Hansen, John P., Eyota, Minn. Chimney wind protector. 2,284,734; June 2.
Hanson, Arvid N., Hinsdale, and S. F. Warner, Forest Park, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Magnetizing apparatus. 2,285,274; June 2.
Hanson, Walter M., and H. E. Bennett, assignors to American Seating Company, Grand Rapids, Mich. Desk. 2,285,159; June 2.
Hansson, Bror, Stockholm, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Machine for the extrusion of plastic masses, such as rubber. 2,284,865; June 2.
Hansson, Bror, Stockholm, Sweden. Arrangement for the manufacture of rubber hose. 2,284,866; June 2.
Harbison, George C., Erie, Pa., assignor to General Electric Company. Refrigerator cabinet. 2,285,160; June 2.
Harder, Delmar S., assignor to General Motors Corporation, Detroit, Mich. Bent tube section and producing the same. 2,285,275; June 2.
Harris, Carl, Salem, Oreg. Animal trap. 2,284,867; June 2.
Harrington, Ferris T., assignor to Vickers Incorporated, Detroit, Mich. Power transmission. 2,284,897; June 2.
Harrington, James R., Mansfield, and B. H. Smith, Shelby, assignors to The Autocall Company, Shelby, Ohio. Rotary switch. 2,284,816; June 2.

Harrison, Bertram M., Newton Highlands, assignor to Submarine Signal Company, Boston, Mass. Distance and depth measuring system. 2,284,654; June 2.
Harrison, Thomas R., Wyncote, assignor to The Brown Instrument Company, Philadelphia, Pa. Measuring and control apparatus. 2,284,817; June 2.
Harrison, Thomas R., Wyncote, and R. D. Bean, Ambler, assignors to The Brown Instrument Company, Philadelphia, Pa. Gas analysis apparatus. 2,284,818; June 2.
Hartford-Empire Company. (See Berthold, Walter K., assignor.)
Hartford-Empire Company. (See Merrill, Donald G., assignor.)
Hartig, Henry E., Robbinsdale, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Balanced relay. 2,284,891; June 2.
Hartman, Rudolph B., Hartland, Wis. Structural system. 2,284,898; June 2.
Harton, Will G., Los Angeles, Calif. Time controlled electric switch. 2,284,819; June 2.
Hatch, Meredith R. (See Rode, F. J., and Hatch.)
Haugh, Earl W., assignor to Aluminum Goods Manufacturing Company, Manitowoc, Wis. Ice cube release grid. 2,284,820; June 2.
Hayes, Hammond V. (See Smith, Philip N., assignor.)
Hazel-Atlas Glass Company. (See Posten, Carl F., assignor.)
Hazeltine Corporation. (See Loughlin, Bernard D., assignor.)
Heaney, Gertrude M., Hollywood, Calif. Educational apparatus. 2,284,868; June 2.
Heath, W. Paul, et al. (See Sparling, Oliver H., assignor.)
Heaslet, James G., Hudson, assignor to The Cleveland Tractor Company, Cleveland, Ohio. Idler wheel adjustment means. 2,284,821; June 2.
Heckendorn, Alphonse. (See Haller, R., and Heckendorn.)
Heckman, John A. (See Corley, M. H., and Heckman.)
Hedin, Uno C., assignor to Buckien-Bear Laboratories, Inc., Elkhart, Ind. Making mercury switches. 2,284,899; June 2.
Heintzelman, Edward W. (See Doyle, John T., assignor.)
Heinz, Bertram T., et al. (See Sparling, Oliver H., assignor.)
Heller, Albert, assignor to B. Heller & Company, Chicago, Ill. Seasoning materials. 2,284,822; June 2.
Heller, B., & Company. (See Heller, Albert, assignor.)
Helmert, Robert, Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Electric impulse generator. 2,285,088; June 2.
Hemminger, Charles E., Westfield, N. J., assignor to Standard Oil Development Company. Shale oil distillation. 2,285,276; June 2.
Hemphill, Lawrence F. (See Groot, R. W., and Hemphill.)
Henderson, Gertrude W. (See Henderson, Owen D. and G. W.)
Henderson, Owen D. and Gertrude W., Miami, Fla. Outdoor sleeper. 2,284,900; June 2.
Henke, Clyde O., Wilmington, Del., R. G. Benner, Carney's Point, N. J., and R. C. W. Jones, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Noble metal catalyst and preparing same. 2,285,277; June 2.
Hennessy, John F., assignor to Geo. D. Roper Corporation, Rockford, Ill. Utensil support for gas ranges. 2,285,278; June 2.
Hennessey, Russell J. (See Guyer, R., and Hennessey.)
Hensley, Charles G., Brooklyn, assignor to T. B. Frost, Baldwin, N. Y. Ring for packages and making the same. 2,284,735; June 2.
Hercules Powder Company. (See Georgi, E. A., and Osterhof, assignors.)
Hercules Powder Company. (See Humphrey, Irvin W., assignor.)
Hercules Powder Company. (See Paine, George A., assignor.)
Hercules Powder Company. (See Sheffield, Donald H., assignor.)
Herriger, Felix, Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Electric discharge tube. 2,284,655; June 2.
Herzog, Hubert J. (See Brace, K. P., and Herzog.)
Heter, Wylie, Scotia, N. Y., assignor to General Electric Company. Dynamoelectric machine. 2,284,656; June 2.
Heter, Wylie, Scotia, N. Y., assignor to General Electric Company. Dynamoelectric machine. 2,284,657; June 2.
Hetherington, Robert, Sharon Hill, Pa. Deflector for hot water shower flow. 2,284,736; June 2.
Heyne, Clarence A. (See Jackson, A. S., Heyne, and Wright.)
Hickman, Clarence N., Jackson Heights, N. Y. Archery bow. 2,285,031; June 2.
Hicks, William L. (See Dimond, L. E., and Hicks.)
Highsmith, H. K. (See Morrison, Thomas P., assignor.)
Higley, Frank R., Cleveland Heights, assignor to The Bryant Heater Company, Cleveland, Ohio. Resaturation cooler. 2,285,089; June 2.
Hiley, Gles W., Smithboro, N. Y., deceased. G. E. Hiley, administratrix. Spring tester. 2,285,090; June 2.
Hiley, Goldie E., administratrix. (See Hiley, Gles W.)
Hill, Frank C., Chicago, Ill. Paint brush cleaner for cans. 2,284,901; June 2.
Hill, Howard M. (See Cox, H. F., Jr., and Hill.)
Hinderliter, Frank J., Tulsa, Okla. Blowout preventer. 2,284,869; June 2.
Hinnüber, Josef, Essen, Germany, assignor to General Electric Company. Hard metal body. 2,285,205; June 2.
Hirshstein, Joseph, Shaker Heights, assignor to R. Newman and M. Hirshstein, Cleveland, Ohio. Apparatus for separating liquids of different specific gravities. 2,284,737; June 2.
Hirshstein, Mildred, et al. (See Hirshstein, Joseph, assignor.)
Hobart Manufacturing Company, The. (See Allen, Kenneth C., assignor.)
Hobson, Leland S., Drexel Hill, Pa., assignor to General Electric Company. Gas blast electric circuit breaker. 2,284,658; June 2.
Hohl, John, O. Bjering and C. P. Whittier, Toledo, Ohio, assignors to Owens-Illinois Glass Company. Packaging machine. 2,285,279; June 2.
Holden, William H. T., Woodside, and B. F. Lewis, Bayside, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,284,870; June 2.
Holmes, Donald F. (See Hanford, W. E., and Holmes.)
Holsten, Karl-Georg, Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Goniometer. 2,285,091; June 2.
Holsten, Karl-Georg, Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Goniometer. 2,285,092; June 2.
Horner, Herbert, Woodhaven, N. Y. Article delivery mechanism. 2,284,975; June 2.
Horton, Erwin C., Hamburg, assignor to Trico Products Corporation, Buffalo, N. Y. Wiper blade. 2,284,823; June 2.
Horton, Erwin C., Hamburg, assignor to Trico Products Corporation, Buffalo, N. Y. Vehicle direction indicator. 2,284,963; June 2.
Horton, Erwin C., Hamburg, and A. Rappl, assignors to Trico Products Corporation, Buffalo, N. Y. Wiper blade. 2,284,976; June 2.
Horwitch, Albert A., Chicago, Ill. Slip. 2,285,230; June 2.
Hosford, John L., Boonville, Mo. Airplane. 2,284,902; June 2.
Hosking, Richard T., Wilmette, assignor, by mesne assignments, to Illinois Tool Works, Chicago, Ill. Thread rolling die. 2,284,659; June 2.
Hotchkiss, E. H., Company, The. (See Polzer, Fridolin, assignor.)
Hothersall, John M., Brooklyn, N. Y., and A. E. Almgren, Hillside, N. J., assignors to American Can Company, New York, N. Y. Container treating machine. 2,284,660; June 2.
Houdaille-Hershey Corporation. (See Baker, Edwin M., assignor.)
Hovey, C. Earl. (See Hagstrom, Jerome E., assignor.)
Hoyer, Hans. (See Rosch, G., Bayer and Hoyer.)
Humphrey, Irvin W., assignor to Hercules Powder Company, Wilmington, Del. Rosin-containing soaps. 2,285,333; June 2.
Hungerford, Daniel C., Madison, assignor to Elastic Stop Nut Corporation, Elizabeth, N. J. Anchor nut and manufacture thereof. 2,284,824; June 2.
Hurst, Edward, West Newton, assignor to United Cotton Products Company, Fall River, Mass. Abrasive material. 2,284,738; June 2.
Hurst, Edward, West Newton, assignor to United Cotton Products Company, Fall River, Mass. Manufacture of abrasive materials. 2,284,739; June 2.
Hurt, Victor H., Cranston, R. I., assignor to United States Rubber Company, New York, N. Y. Winding machine. 2,285,334; June 2.
Hurt, Victor H., Cranston, R. I., assignor to United States Rubber Company, New York, N. Y. Embossed material and making the same. 2,285,335; June 2.
Huss, Henry M., Aurora, Ill. Wrench. 2,284,871; June 2.
Huston, Arch C., Los Angeles, Calif. Device for capping containers. 2,284,740; June 2.
Hydro-Silica Corporation. (See Stewart, Wilson M., assignor.)
Iander, John R., et al. (See Banks, Lillian, assignor.)
Ideal Seating Company. (See Gedris, Stanley J., assignor.)
Illinois Tool Works. (See Hosking, Richard T., assignor.)
Illinois Tool Works. (See Nielsen, Moritz H., assignor.)
Illinois Tool Works. (See Stern, William, assignor.)
Illinois Tool Works. (See Trotter, George C., assignor.)
Illmer, Louis, Cortland, N. Y. Automotive mileage reminder of the dial type. 2,284,903; June 2.
Illmer, Louis, and V. R. Pallas, Cortland, N. Y. Abrasive wire polisher. 2,284,904; June 2.
Imperial Knife Company. (See Mirando, F. A., and Vossler, assignors.)
Indahl, Mauritz C., Rydal, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Keyboard composing machine. 2,285,206; June 2.
Ingersoll-Rand Company. (See Doyle, Frank B., assignor.)
Ingersoll-Rand Company. (See Kidney, Carleton B., assignor.)

Ingram, Joseph R., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Age resisting rubber composition. 2,285,032; June 2.
Inman, John C., Windsor, Ontario, Canada, assignor to Lempco Products, Inc., Bedford, Ohio. Surfacing machine. 2,285,377; June 2.
Interchemical Corporation. (See Bernardi, Dominic J., assignor.)
Interchemical Corporation. (See Gans, D. M., and Grove, assignors.)
Interchemical Corporation. (See Grupe, William F., assignor.)
International Business Machines Corporation. (See Doty, Charles R., assignor.)
International Business Machines Corporation. (See Fitch, Clyde J., assignor.)
International Business Machines Corporation. (See Lake, C. D., and Hamilton, assignors.)
International Business Machines Corporation. (See Neumann-Lezius, Hans, assignor.)
International Business Machines Corporation. (See Peirce, John R., assignor.)
International Business Machines Corporation. (See Rottke, Hermann A., assignor.)
International Business Machines Corporation. (See Stauss, Karl R., assignor.)
International Cementers, Inc. (See Pierce, Rex V., assignor.)
International Harvester Company. (See Baker, D. B., Rogers, and Bechman, assignors.)
International Nickel Company of Canada. (See Welblund, A., and Benard, assignors.)
International Paper Company. (See Lang, Frank J., assignor.)
Isaacson Iron Works. (See Allin, George S., assignor.)
Jackson, Albert S., Wood River, C. A. Heyne, and F. S. Wright, Alton, Ill., assignors to Owens-Illinois Glass Company. Automatic drying apparatus. 2,285,336; June 2.
Jackson, Edwin C. (See Travilla, J. C., Jr., and Jackson.)
Jackson, Roy C., Los Angeles, Calif. Evaporative cooler. 2,284,905; June 2.
Jacobs Manufacturing Company, The. (See Stoner, Arthur M., assignor.)
Jaeger, Edward T., R. Loeffler, Jr., and L. Bischoff, assignors to Oneida Paper Products, Inc., New York, N. Y. Forming windowed apertures. 2,284,872; June 2.
Jans, James M. (See Brennan, A. K., and Jans.)
Jayne, Bennett, New York, assignor of one-half to D. Calderazzo, Dolgeville, N. Y. Shoe. 2,284,620; June 2.
Jenn, Louis J., Minneapolis, Minn. Ventilating device. 2,285,161; June 2.
Jennelle, Clisby M. (See Bolt, Malon C., assignor.)
Jennings, Oliver S., Pittsburgh, and H. S. Gano, Wilkinsburg, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit interrupter. 2,284,825; June 2.
Jensen, Herman G. (See Kenney, M. W., and Jensen.)
Johns, Herman S., assignor to W. W. Lowrey, Oklahoma City, Okla. Parking meter. 2,284,977; June 2.
Johnson, Clarence, Cleveland Heights, Ohio, assignor to Bailey Meter Company. Gas analyzer. 2,285,280; June 2.
Johnson, Edwin H., Lincoln, and S. Baughman, Broadwell, Ill., deceased, assignors of one-third to R. W. Sheets, Lincoln, Ill., B. G. Baughman, administratrix. Mowing attachment for trucks. 2,285,117; June 2.
Johnson, Glenn D., Compton, assignor to Baash-Ross Tool Company, Los Angeles, Calif. Apparatus for surveying articles of manufacture. 2,285,281; June 2.
Johnson, Joseph F., Chester, N. Y. Railway car. 2,285,207; June 2.
Johnston, James C., Cleveland, Ohio. Mold for forming parts of joints on bell and spigot pipes. 2,284,741; June 2.
Johntz, Tracy E., Wilmette, and C. W. Place, La Grange, Ill., assignors to General Electric Company. Automatic turbine control system. 2,285,208; June 2.
Jones, Harry S., assignor to The Brown Instrument Company, Philadelphia, Pa. Impedance measuring apparatus. 2,285,118; June 2.
Jones & Lamson Machine Company. (See Flanders, Ralph E., assignor.)
Jones, R. A., & Company, The. (See Jones, Ruel A., assignor.)
Jones, Robert C. W. (See Henke, C. O., Benner, and Jones.)
Jones, Roy W., assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,285,282; June 2.
Jones, Ruel A., assignor to The R. A. Jones & Company, Covington, Ky. Carton loading machine. 2,285,283; June 2.
Joy, Joseph F., Pittsburgh, Pa., assignor to Sullivan Machinery Company. Material transport truck. 2,284,661; June 2.
Judels, Charles, Los Angeles, and D. L. J. Smith, Long Beach, assignors of fifty per cent to C. Judels, Los Angeles, and fifty per cent to D. L. J. Smith, Long Beach, Calif. Venetian blind. 2,285,033; June 2.
Judels, Charles, et al. (See Judels, C., and Smith, assignors.)
Kahle, Heinrich, Hollriegelskreuth, near Munich, Germany. Process for the production of krypton and xenon. 2,284,662; June 2.
Kantor, James, assignor to the Liquid Carbonic Corporation, Chicago, Ill. Timing feed of beverage mixing machines and the like. 2,285,284; June 2.
Kapp, Roland, and L. J. Mosch, Newark, and E. T. Woods, Arlington, assignors to National Oil Products Company, Harrison, N. J. Producing sulphonated products. 2,285,337; June 2.
Kast, Samuel H., assignor to Railway and Industrial Engineering Company, Greensburg, Pa. Switch jaw. 2,284,742; June 2.
Katz, Albert, assignor to Bundy Tubing Company, Detroit, Mich. Connecting strip ends in making tube. 2,285,209; June 2.
Kawecki, Henry C., Temple, Pa., and W. E. Martin, Bayside, assignors to The Beryllium Corporation, New York, N. Y. Pickling agent for copper-beryllium alloys. 2,284,743; June 2.
Keiffer, John E., Ewing, Ind. Packing pad. 2,284,663; June 2.
Kellogg, Edward W., Moorestown, N. J., assignor to Radio Corporation of America. Sound recording. 2,284,744; June 2.
Kelman, David J., New York, N. Y. Lamp socket. 2,284,745; June 2.
Kelsay, Le Roy W., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cover for cable terminal housings. 2,285,034; June 2.
Kemp, Roland J., Chelmsford, England, assignor to Radio Corporation of America. Navigation aiding radio beacon system. 2,284,873; June 2.
Kempton, Leslie A., assignor to Edison General Electric Appliance Company, Inc., Chicago, Ill. Electric switch. 2,285,210; June 2.
Kenney, Mahlon W., Oak Park, and H. G. Jensen, assignors to Rayolite Rifle Range Company, Chicago, Ill. Gun stand for electric target devices. 2,285,035; June 2.
Kerrick, Walter B., Los Angeles, assignor to Clayton Manufacturing Company, Alhambra, Calif. Method and apparatus for burning fuel. 2,284,906; June 2.
Keuffel & Esser Company. (See Keuffel, Willie L. E., assignor.)
Keuffel, Willie L. E., Weehawken, assignor to Keuffel & Esser Company, Hoboken, N. J. Clinometer. 2,285,285; June 2.
Key, Hugo. (See MacLellan, Alexander C., assignor.)
Kidney, Carleton B., Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y. Centrifugal blower. 2,285,338; June 2.
Kidwell, Cleo H., Short Hills, N. J. Grinding and classifying device. 2,284,746; June 2.
Kinzey, Bertram Y., Richmond, Va. Refrigerating apparatus. 2,284,907; June 2.
Kirkman, Hugh B., Larchmont, N. Y. Telephone dial manipulating device. 2,285,286; June 2.
Kirsten Pipe Company. (See Shoudy, Paul A., assignor.)
Kissling, Kurt, Glendale, N. Y. Shears. 2,284,664; June 2.
Klauer, Walter E., Dubuque, Iowa. Casing for conveying devices for snow removing mechanism. 2,285,162; June 2.
Klavík, Miloš, Prague-Smichov, Czechoslovakia. Air-cooled motor. 2,285,119; June 2.
Knaell, Kenneth K. (See Blau, H. H., and Knaell.)
Knapp, Robert T., Pasadena, assignor of one-fourth to R. A. Reik and one-fourth to F. O. Reik, Los Angeles, Calif. Deep well pumping mechanism. 2,284,908; June 2.
Kneass, Strickland, Jr., Boylston, assignor to Morgan Construction Company, Worcester, Mass. Furnace. 2,285,036; June 2.
Knott, Frank W., and B. Garilus, Detroit, Mich. Fuel pump. 2,285,163; June 2.
Knowler, Henry. (See Dowden, P. R., and Knowler.)
Kober, Philip A., assignor to G. H. Sherman, M. D., Incorporated, Detroit, Mich. Preparing magnesium theophylline. 2,284,978; June 2.
Koch, Winfield R., Haddonfield, N. J., assignor to Radio Corporation of America. Electrical measuring system. 2,284,747; June 2.
Kokatnur, Vaman R., Beechhurst, N. Y. Mixtures of materials and making. 2,285,093; June 2.
Kokay, Stephen, assignor to Ditto, Incorporated, Chicago, Ill. Moistening apparatus for duplicating machines. 2,284,874; June 2.
König, Erwin. (See Patzschke, W., and König.)
Kooperativa Förbundet Förening U. P. A. (See Vigborg, Karl M., assignor.)
Kooperativa Förbundet, Förening U. P. A. (See Vigborg, K. M., and Bratt, assignors.)
Korenek, Adolph G., Galveston, Tex. Handle for cooking utensil lids. 2,284,748; June 2.
Korman, Nathaniel I., Haddon Heights, N. J., assignor to Radio Corporation of America. Radio frequency watt meter. 2,285,211; June 2.
Krebs, Edouard. (See Biefeld, K., and Krebs.)
Kreuzer, Barton, Los Angeles, Calif., and H. I. Reiskind, Camden, N. J., assignors to Radio Corporation of America. System for sound recording. 2,284,749; June 2.

Kroeger, Joseph H., Cheviot, Ohio. Sod cutting machine. 2,284,826; June 2.
Krogh, Anker E., assignor to The Brown Instrument Company, Philadelphia, Pa. Automatic control apparatus. 2,285,287; June 2.
Krogh, Anker E., assignor to The Brown Instrument Company, Philadelphia, Pa. Automatic control apparatus. 2,285,288; June 2.
Kuhlman, Henry J., assignor to Kuhlman Manufacturing Company, Waterloo, Iowa. Corn harvester. 2,284,909; June 2.
Kuhlman Manufacturing Company. (See Kuhlman, Henry J., assignor.)
Kuhn, Clarence W., Wauwatosa, T. F. Rosing, Whitefish Bay, and W. C. Stevens, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Electromagnetic relay. 2,284,621; June 2.
Kummerer, Wilhelm, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Radio frequency amplifier. 2,285,164; June 2.
Lacart, Rollin H. (See Beekley, H. L., Gilbert, and Lacart.)
Ladewig, Archie E., Waukesha, Wis. Bottle cooling unit. 2,284,875; June 2.
Lake, Clair D., Binghamton, and F. E. Hamilton, Endicott, assignors to International Business Machines Corporation, New York, N. Y. Card punching machine. 2,285,289; June 2.
La May, Ada, assignor to Shellmar Products Company, Mount Vernon, Ohio. Decorative material. 2,285,212; June 2.
Landreth, John T., Evanston, assignor to Spring Packing Corporation, Chicago, Ill. Delinting waste puller. 2,284,750; June 2.
Lang, Frank J., Niagara Falls, assignor to International Paper Company, New York, N. Y. Drier. 2,285,290; June 2.
Lanston Monotype Machine Company. (See Indahl, Mauritz C., assignor.)
Lapsley, Robert. (See Bixby, L. A., and Lapsley.)
Larison Compensating Axle Corporation. (See Larison, Glenn L., assignor.)
Larison, Glenn L., La Grande, Oreg., assignor to Larison Compensating Axle Corporation. Vehicle suspension. 2,284,665; June 2.
Larsen, Delmar H., Los Angeles County, assignor to National Lead Company, Los Angeles, Calif. Gravel packing of wells. 2,285,291; June 2.
Larson, Werner J., West Hartford, assignor to The States Company, Hartford, Conn. Portable resistance load. 2,285,339; June 2.
Latina, Harry B. (See Nolte, Elmer, and Latina.)
Laurance, John E. (See Dayhuff, W. C., and Laurance.)
Lazarus, Hettye S., St. Louis, Mo. Rack for neckwear. 2,284,979; June 2.
Le Bus, Franklin L., Longview, Tex. Knuckle joint. 2,285,213; June 2.
Leinen, Caspar W. (See Persinske, Reinhardt, assignor.)
Lempco Products, Inc. (See Inman, John C., assignor.)
Leslie, Claude W. (See Walther, G., and Leslie.)
Lewellen, George C., King City, Mo. Key holder. 2,285,154; June 2.
Lewis, Benjamin F. (See Holden, W. H. T., and Lewis.)
Leyn, Albrecht. (See Dohsmann, W., and Leyn.)
Liebman, Walter H., Jr. (See Rojas, Floricel A., assignor.)
Lindell, Sigurd I. (See Triplett, H. A., and Lindell.)
Linder, Ernest G., Philadelphia, Pa., assignor to Radio Corporation of America. Resonant cavity device. 2,284,751; June 2.
Lindsay, Frederick K., and J. W. Ryznar, La Grange, assignors to National Aluminate Corporation, Chicago, Ill. Water softening and clarification. 2,284,827; June 2.
Link-Belt Company. (See Strube, Harry L., assignor.)
Liquid Carbonic Corporation, The. (See Kantor, James, assignor.)
Lisle, Dallas V., Pittsburgh, Pa. Display device. 2,285,214; June 2.
Lobo, Walter E., Westfield, assignor to Gasoline Products Company Inc., Newark, N. J. Method of and apparatus for heating fluids. 2,285,037; June 2.
Lockwood, Thorval J., Gering, Nebr. Potato washer roller. 2,285,340; June 2.
Loeffler, Rupert, Jr. (See Jaeger, E. T., Loeffler, Jr., and Bischoff.)
Logeman, Roland A., Normandy, Mo., assignor to Arch-Rib Floors, Incorporated, New York, N. Y. Building floor. 2,285,165; June 2.
Lohn, Peter, New York, N. Y. Dispensing apparatus. 2,284,828; June 2.
Long, Herbert J., Springfield, Mass. Flow control system for gas burners. 2,284,910; June 2.
Lorenz, C., Aktiengesellschaft. (See Behre, Günther, assignor.)
Lorenz, C., Aktiengesellschaft. (See Berthold, Hans, assignor.)
Lorenz, C., Aktiengesellschaft. (See Hagen, Wolfgang, assignor.)
Lorenz, C., Aktiengesellschaft. (See Helmert, Robert, assignor.)
Lorenz, C., Aktiengesellschaft. (See Herriger, Felix, assignor.)
Lorenz, C., Aktiengesellschaft. (See Holsten, Karl-Georg, assignor.)
Lorenz, C., Aktiengesellschaft. (See Messner, Maximilian, assignor.)
Lorenz, C., Aktiengesellschaft. (See Preussler, Walter, assignor.)
Lorenz, C., Aktiengesellschaft. (See Steinmetz, Joachim, assignor.)
Lorenz, C., Aktiengesellschaft. (See Wiessner, A., and Hagen, assignors.)
Lotz, August J., assignor to Binks Manufacturing Company, Chicago, Ill. Fluid compressor. 2,285,215; June 2.
Loughlin, Bernard D., Great Neck, N. Y., assignor to Hazeltine Corporation. System for indicating electrical phase-shift characteristics. 2,285,038; June 2.
Lovell, Stanley P., Newton Center, Mass., assignor to Beckwith Manufacturing Company, Dover, N. H. Making forms. 2,285,376; June 2.
Lowe, Jack F., Brentwood, assignor to A. W. Edwards, Southgate, Calif. Blade for earth excavating and handling machines. 2,285,039; June 2.
Lowe, Joe, Corporation. (See Gundlach, G. P., and Morris, assignors.)
Lowrey, Wiley W. (See Johns, Herman S., assignor.)
Lüdi, Fritz, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Ultra high frequency receiving device. 2,284,829; June 2.
Lueders, Walter. (See Mayer, C. W., Leuders, and Consler.)
Lumbard-Watson Co. (See Sinclair, Percy L., assignor.)
Lundgren, Eric, Braddock Heights, Md., assignor to E. B. & A. C. Whiting Company, Burlington, Vt. Apparatus for feeding pulverulent material. 2,285,216; June 2.
Lusink, Clarence I. (See Barrows, D. S., and Lusink.)
Lyness, Horatio S., Lynn, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Shoe and shoe bottom parts. 2,284,830; June 2.
Lyon, Margaret H., New York, N. Y. Ashtray. 2,285,341; June 2.
Maas, Louis A., Glendale, Calif. Musical instrument. 2,284,911; June 2.
MacClatchie Manufacturing Company of California. (See Green, Howard D., assignor.)
Macdonald, William H., Jr., Rochelle Park, N. J., assignor to Carrier Corporation, Syracuse, N. Y. Air conditioning apparatus. 2,285,042; June 2.
Mace, Arthur T., East Cleveland, assignor to The Radiart Corporation, Cleveland, Ohio. Automobile antenna. 2,284,752; June 2.
MacLellan, Alexander C., assignor, by mesne assignments, to Hugo Key, Newport, R. I. Teeing device for golf balls. 2,285,342; June 2.
Madsen, Berthel F., assignor to Teletype Corporation, Chicago, Ill. Printing telegraph apparatus. 2,284,666; June 2.
Madsen, Berthel F., assignor to Teletype Corporation, Chicago, Ill. Multiple clutch mechanism. 2,284,667; June 2.
Malhiot, Eugene L., Maywood, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Tension gauge. 2,285,166; June 2.
Mangels, William F., Brooklyn, N. Y. Dispensing device. 2,285,292; June 2.
Mansfield, William E., Garfield Heights, Ohio, assignor to Cleveland Tungsten, Inc. Contact. 2,285,293; June 2.
Mantle, Burr W., Pittsford, N. Y., assignor to The American Brake Shoe and Foundry Company. Unloader for compressors or the like. 2,284,980; June 2.
Marbury, Ralph E., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Protective system for series capacitors. 2,284,876; June 2.
Marcellus, Frederick S. (See Hall, C. I., and Marcellus.)
Marchand, Eugene W., Jr., Maywood, E. A. Fredrickson, Chicago, and R. H. Zinkil, Oak Park, Ill., assignors to Crane Co., Chicago, Ill. Valve. 2,285,343; June 2.
Marchev, Alfred, La Grange, assignor to Signode Steel Strapping Company, Chicago, Ill. Package-binding apparatus. 2,285,120; June 2.
Marks, Ernest M., Lansdowne, assignor to The Atlantic Refining Company, Philadelphia, Pa. Treatment of hydrocarbons. 2,285,294; June 2.
Marples, Elwyn I. B. (See Nixon, F., and Marples.)
Marples, Elwyn I. B. and H. N. Gorrell, assignors to The Bristol Aeroplane Company Limited, Bristol, England. Supercharged internal combustion engine. 2,285,344; June 2.
Martin Brothers Company. (See Fellroth, Erick O., assignor.)
Martin, Henry A., Kansas City, Mo., and C. V. Spangler, Springfield, Ohio, assignors to J. F. Pritchard and Company, Kansas City, Mo. Dehumidifying composition and preparing same. 2,284,981; June 2.
Martin, Joseph A., Elizabeth, N. J., assignor to Flexnit Company, Inc. Confining garment. 2,285,217; June 2.
Martin, Wayne E. (See Kawecki, H. C., and Martin.)
Martin, William T., assignor to Beech-Nut Packing Company, Canajoharie, N. Y. Package. 2,284,668; June 2.
Martindell, Frank, Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Material working apparatus. 2,285,295; June 2.
Martinez, Michele, London, England, assignor to Eastman Kodak Company, Rochester, N. Y. Light sensitive color element. 2,284,877; June 2.

Marx, Carl. (See Dimond, L. E., and Hicks, assignors.)
Marx, Louis & Company. (See Gardner, Frank P., assignor.)
Mason-Neilan Regulator Company. (See Belaef, Nikolai, assignor.)
Mason, Roy T., Newman, assignor of one-half to Norbert R. Schiernbeck, Modesto, Calif. Switch. 2,285,121; June 2.
Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Piezoelectric crystal apparatus. 2,284,753; June 2.
Masteller, Malcolm L., Miami, Fla. Hydraulic brake. 2,284,669; June 2.
Maul, Michael, Berlin-Johannisthal, assignor to Deutsche Hollerith Maschinen Gesellschaft m. b. H., Berlin-Lichterfelde, Germany. Analyzing device for statistical machines. 2,285,296: June 2.
Mautz, Frederick R., and O. J. Smith, Cleveland Heights, Ohio, assignors to Air Reduction Company, Incorporated, New York, N. Y. Mechanical respirator. 2,284,964; June 2.
May, John W., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit breaker. 2,285,040; June 2.
Mayer, Charles W., W. Lueders and R. J. Consler, Rochester, N. Y.; said Lueders and said Consler assignors to said Mayer. Coating machine. 2,285,041; June 2.
Maynard, John E., and P. O. Collins, Elyria, Ohio. Air duct damper. 2,284,912; June 2.
McCanlies, Preston H., Berkeley, Calif. Mensuration instrument. 2,284,831 June 2.
McComb, Alfred H., Chicago, Ill. Drying process. 2,284,913; June 2.
McCullough, William E., Detroit, and E. O. Goerke, Dearborn, assignors to Bohn Aluminum & Brass Corporation, Detroit, Mich. Bearing and forming the same. 2,284,670; June 2.
McDowell, Thomas E., Oak Park, assignor to The Pyle-National Company, Chicago, Ill. Runway marker light. 2,284,878; June 2.
McGarry, James W., assignor to Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Plumbing construction. 2,284,754; June 2.
McGinnis, Archibald B., assignor to Wheeler Stamping Company, Wheeling, W. Va. Press mechanism for forming screw-threaded plastic articles. 2,285,297; June 2.
McGraw Electric Company. (See Biebel, Herman M., assignor.)
McGraw Electric Company. (Se Gomersall, John R., assignor.)
McGraw Electric Company. (See Scharf, Frank W., assignor.)
McIntosh, Maurice D., assignor to Louis S. Sanders, Cleveland, Ohio. Medium for producing images. 2,285,122; June 2.
McKee Glass Company. (See Sailer, G. D., and Poglein, assignors.)
McMahon, James T. (See Rerucha, John V., assignor.)
Meinzer, Gotthold H., Glendale, Calif. Shaking device. 2,284,671; June 2.
Melick, John M., Cresskill, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Coin collector apparatus. 2,284,755; June 2.
Melton, Romie L. (See Benner, R. C., and Melton.)
Merkle, Bernard J., Chicago, Ill. Antenna rotator. 2,284,672; June 2.
Merrill, Donald G., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Glassware lehr. 2,284,832; June 2.
Messner, Maximilian, Berlin-Westend, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Television receiver. 2,285,043; June 2.
Metalwash Machinery Co. (See Zademach, Erich R., assignor.)
Meyer, Alex, Fort Morgan, Colo. Automatic electric switch. 2,284,756; June 2.
Miller, Albert W., Jamaica, N. Y. Lock-nut construction. 2,285,345; June 2.
Miller, J. C., Company. (See Bergsma, Alvin L., assignor.)
Miller, Leo B., Hartsdale, N. Y., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Air conditioning system. 2,284,914; June 2.
Miller, Ralph K., assignor to General Motors Corporation, Dayton, Ohio. Heat exchange apparatus. 2,284,915; June 2.
Miller, Walter, Allentown, assignor to A. D. Palmer, Philadelphia, Pa. Safety machine tool coupling. 2,284,982; June 2.
Miller Wrapping and Sealing Machine Company. (See Corley, M. H., and Heckman, assignors.)
Minneapolis-Honeywell Regulator Company. (See Baak, Albert E., assignor.)
Minneapolis-Honeywell Regulator Company. (See Hartig, Henry E., assignor.)
Minneapolis-Honeywell Regulator Company. (See Miller, Leo B., assignor.)
Minneapolis-Honeywell Regulator Company. (See Newton, Alwin B., assignor.)
Minor, Burt S., Whittier, Calif., assignor to Regan Forge & Engineering Company. Casing head construction. 2,284,983; June 2.
Mirando, Felix A., and H. Vossler, assignors to Imperial Knife Company, Inc., Providence, R. I. Method and apparatus for making knife handles and component parts thereof. 2,284,833; June 2.
Moler, Francis L., West Los Angeles, Calif. Article used for holding sheets of material together. 2,284,834; June 2.
Mollnow, John B. (See Murdock, Charles I., assignor.)
Moloney, Raymond T. (See Nicholson, Ralph A., assignor.)
Moloney, Raymond T. (See Williams, Jewell R., assignor.)
Moncrief, James B., Copperhill, Tenn. Cabinet construction. 2,285,346. June 2.
Monroe Calculating Machine Company. (See Crosman, Loring P., assignor.)
Monsanto Chemical Company. (See Beaver, David J., assignor.)
Monsanto Chemical Company. (See Ingram, Joseph R., assignor.)
Montgomery, Robert J., Chicago, Ill. Wire stripper. 2,285,107; June 2.
Moore, William D., assignor to American Cast Iron Pipe Company, Birmingham, Ala. Apparatus for producing small castings. 2,284,835; June 2.
Morgan Construction Company. (See Kneass, Strickland, Jr., assignor.)
Morgan, Thomas H., Kittanning, assignor to S. S. Bruce, H. C. Oliver, Pittsburgh, and T. H. Morgan, Kittanning, Pa., trustees. Screen apparatus. 2,285,347; June 2.
Morgan, T. Hubbard, et al., as trustees. (See Morgan, Thomas H., assignor.)
Morgan, Thomas H., Kittanning, assignor to S. S. Bruce, H. C. Oliver, Pittsburgh, and T. H. Morgan, Kittanning, Pa., trustees. Material separator apparatus. 2,285,348; June 2.
Morrell, Jacque C., Oak Park, Ill. Container and making the same. 2,285,219; June 2.
Morrell, Jacque C., Oak Park, Ill. Container. 2,285,220; June 2.
Morris, Byron. (See Gundlach, G. P., and Morris.)
Morris, Lloyd P., Chicago, Ill. Program selector. 2,284,916; June 2.
Morris, Robert M., Millburn, N. J., assignor to Radio Corporation of America. Wave length modulation system. 2,285,044; June 2.
Morrison, Robert F., Oak Park, assignor to Ditto, Incorporated, Chicago, Ill. Moistening apparatus. 2,284,622; June 2.
Morrison, Thomas P., Blackwell, Okla., assignor of one-tenth to H. K. Highsmith. Retort cleanout machine. 2,285,298; June 2.
Morton, Alton W., Salt Lake City, Utah. Parallax-free view finder with auxiliary lens turret. 2,284,757; June 2.
Morton, Henry E., Muskegon, and O. G. Rutemiller, Detroit, Mich., said Morton assignor to Morton Manufacturing Company, Muskegon Heights, Mich., and said Rutemiller assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Cutting machine. 2,284,758; June 2.
Morton Manufacturing Company. (See Morton, H. E., and Rutemiller, assignors.)
Mosch, Leo J. (See Kapp, R., Mosch, and Woods.)
Mosler Lock Company, The. (See Clarkson, R. H., and Benham, assignors.)
Moxley, William M., Kansas City, Mo. Bulb carrying compartment for handles of electric lanterns. 2,285,045: June 2.
Mueller Co. (See Mueller, Frank H., assignor.)
Mueller, Frank H., assignor to Mueller Co., Decatur, Ill. Valve. 2,285,221; June 2.
Mueller, Frank H., assignor to Mueller Co., Decatur, Ill. Valve. 2,285,222; June 2.
Mueller, Frank H., assignor to Mueller Co., Decatur, Ill. Rotary operator and retainer ring assembly. 2,285,223; June 2.
Munschak, Uscher, assignor of one-half to J. Wolodarsky, Paris, France. Electric heating system for garments and other objects. 2,284,673; June 2.
Murdock, Charles I., assignor of one-half to J. B. Mollnow, Perry, N. J. Heating system. 2,284,674; June 2.
Murdock, James A., Chicago, Ill. Kitchen utensil. 2,285,381; June 2.
Murdock, Jesse M., Detroit, Mich. Tile and method of sealing. 2,285,046; June 2.
Murphy, Judson C., San Marino, and H. B. Coldren, Compton, Calif. Sash and frame construction. 2,284,759; June 2.
Muskat, Irving E., and F. D. Ayres, Akron, Ohio, assignors to Pittsburgh Plate Glass Company, Allegheny County, Pa. Purification of caustic. 2,285,299; June 2.
Muskat, Irving E., Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Concentration of caustic. 2,285,300; June 2.
Mussen, Donald N. (See Rappl, A., and Mussen.)
Muszynski, Antoni, Southampton, Mass. Steam generating apparatus. 2,285,349; June 2.
Myers, Abraham, Brooklyn, N. Y. Automatic vending device. 2,285,218; June 2.
Myers, Charles L., Merion, assignor to American Engineering Company, Philadelphia, Pa. Stoker furnace. 2,284,760; June 2.
Nalbach, John R., Oak Park, Ill. Variable speed device. 2,284,675; June 2.
Napier, D., & Son Limited. (See Zdanowich, Richard, assignor.)

Nathan, Tracy D., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Rubber lined article and making the same. 2,284,761; June 2.
National Aluminate Corporation. (See Lindsay, F. K., and Ryznar, assignors.)
National Automotve Fibres, Inc. (See Cunnington, George R., assignor.)
National Cash Register Company, The. (See Williams, Paul H., assignor.)
National Lead Company. (See Larsen, Delmar H., assignor.)
National Oil Products Company. (See Davis, Lloyd W., assignor.)
National Oil Products Company. (See Kapp, R., Mosch, and Woods, assignors.)
National Oil Products Company. (See Robinson, Edwin A., assignor.)
Neal, Arthur M. (See Downing, F. B., Neal and Pedersen.)
Neeley, Ray T. (See Hall, Ona F., assignor, and Davis.)
Nelson, Algott L., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Deck lid lock. 2,285,301; June 2.
Nelson, Manville R., Malta, Mont. Carriage top table. 2,284,917; June 2.
Nemir, Clarence T., Austin, Tex. Cashew nut shelling device. 2,284,879; June 2.
Neumann-Lezius, Hans, Berlin-Lankwitz, Germany, assignor to International Business Machines Corporation, New York, N. Y. Ink ribbon reversing mechanism for business machines. 2,285,350; June 2.
Newman, Ruth, et al. (See Hirshstein, Joseph, assignor.)
Newton, Alwin B., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control for refrigerating systems. 2,284,918; June 2.
Newton, Francis L. (See Hafner, L. S., and Newton.)
Niagara Duplicator Co. (See Nigra, F., and Toby, assignors.)
Nicholson, Ralph A., assignor to Raymond T. Moloney, Chicago, Ill. Drink vending machine. 2,284,880; June 2.
Nielsen, Moritz H., assignor to Illinois Tool Works, Chicago, Ill. Method and machine for assembling washers with screw threaded fasteners. 2,284,676; June 2.
Nielson, Jay P., San Diego, Calif. Haystack saw. 2,284,919; June 2.
Nigra, Ferdinand, and M. E. Toby, assignors to Niagara Duplicator Co., San Francisco, Calif. Sheet feed. 2,285,224; June 2.
Nix, William M., Lakeland, Fla. Rupture holder. 2,285,351; June 2.
Nixon, Frank, and E. I. B. Marples, assignors to The Bristol Aeroplane Company Limited, Bristol, England. High-altitude aircraft. 2,284,984; June 2.
Nolte, Elmer, St. Louis, Mo., and H. B. Latina, East St. Louis, Ill., assignors to Rawlings Manufacturing Company, St. Louis, Mo. Baseball glove. 2,284,920; June 2.
Noma Electric Corporation. (See Wolf, Abraham, assignor.)
Nordberg Manufacturing Company. (See Symons, Loren G., assignor.)
Norman, John H. (See Smith, R. B., and Norman.)
Norris, Lucius A. (See Roberts, F. M., and Norris.)
Norris, Rollin H., Schenectady, N. Y., assignor to General Electric Company. Flat tube condenser. 2,285,225; June 2.
Norton, Leland D., and J. E. Renholdt, Bridgeport, Conn., assignors to Dictaphone Corporation, New York, N. Y. Phonograph. 2,284,836; June 2.
Norwalk Hat Company, The. (See Wall, Thomas J., assignor.)
O'Brien, Joseph F., Jersey City, N. J., assignor to John B. Pierce Foundation, New York, N. Y. Interconnector means. 2,284,837; June 2.
Ohio Brass Company, The. (See Chandler, Homer P., assignor.)
Ohio Brass Company, The. (See Smith, William A., assignor.)
Öholm, Gustav Valdemar, Stockholm, Sweden. Drying porous wallboards. 2,284,838; June 2.
Oilgear Company, The. (See Ransom, Tyler, assignor.)
Olin, Gösta, Stockholm, Sweden. Shop counter. 2,285,047; June 2.
Oliver, H. C., et al., as trustees. (See Morgan, Thomas H., assignor.)
Olsen, Burton A., assignor to California Cotton Mills Company, Oakland, Calif. Batt forming machine. 2,284,762; June 2.
Olsen, Ronald W., Bloomfield, N. J., assignor to General Electric Company. Fluid flow control. 2,285,226; June 2.
Olson, Anton J., Huntington Park, Calif. Rotary engine. 2,284,763; June 2.
Oneida Paper Products, Inc. (See Jaeger, E. T., Loeffler, and Bischoff, assignors.
Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 2,284,677; June 2.
Osterhof, Arthur L. (See Georgi, E. A., and Osterhof.)
Ottinger, Leon. (See Gage, Edward G., assignor.)
Owens-Illinois Glass Company. (See Benoit, Joseph P., assignor.)
Owens-Illinois Glass Company. (See Firestone, Floyd A., assignor.)
Owens-Illinois Glass Company. (See Hohl, J., Bjering, and Whittier, assignors.)
Owens-Illinois Glass Company. (See Jackson, A. S., Heyne, and Wright, assignors.)
Owens-Illinois Glass Company. (See Staelin, Carl G., assignor.)
Pabst Brewing Company. (See Rue, Harold E., assignor.)
Package Machinery Company. (See Cornock, Edward F., assignor.)
Packard Motor Car Company. (See Reid, Elliott G., assignor.)
Paine Company, The. (See Hall, E. C., and Hall.)
Paine, George A., Providence, R. I., assignor to Hercules Powder Company, Wilmington, Del. Cellulose spinning solution and filament produced therefrom. 2,284,839; June 2.
Palkin, Samuel, Washington, D. C., assignor to C. R. Wickard, as Secretary of Agriculture of United States of America, and his successors in office. Filter apparatus. 2,285,048; June 2.
Pallas, Vernon R. (See Illmer, L., and Pallas.)
Palmer, Agatha D. (See Miller, Walter, assignor.)
Palmer, Charles M., et al. (See Banks, Lillian, assignor.)
Palmer, Ralph F. (See Ray, J. L., and Palmer.)
Palmer, Ralph F., Montclair, N. J., and K. C. Selby, White Plains, N. Y., assignors to The Singer Manufacturing Company, Elizabeth, N. J. Making dress forms. 2,284,965; June 2.
Parks, Asbury S., Houston, Tex. Purging wells. 2,285,049; June 2.
Parks, Paul B., Oak Park, assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Temperature controlled apparatus. 2,284,764; June 2.
Parrish, Weldon, et al. (See Peterson, James L., assignor.)
Pasini, Harold C. (See Roters, H. C., and Pasini.)
Patterson, Gordon D., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cementing oil wells. 2,285,302; June 2.
Patzschke, W., Berlin-Zehlendorf, and E. König, Berlin-Wilmersdorf, Germany, assignors to General Electric Company. Press button tuned radio receiver. 2,285,378; June 2.
Paul, William E., Schenectady, N. Y., assignor to General Electric Company. Fluid blast circuit breaker. 2,284,840; June 2.
Paulson, Christian, Elmhurst, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical contact. 2,285,352; June 2.
Pedersen, Charles J. (See Downing, F. B., Neal, and Pedersen.)
Peirce, John R., deceased, New York, by T. A. Gavin, Binghamton, N. Y., executor, assignors to International Business Machines Corporation, New York, N. Y. Calculating machine. 2,285,353; June 2.
Pernu, Leo, Sudbury, Ontario, Canada. Closure for containers. 2,285,227; June 2.
Persinske, Reinhardt, assignor of one-half to C. W. Leinen, Racine, Wis. Steering mechanism for vehicles. 2,284,892; June 2.
Person, Earl R. (See Hall, W. P-G., Person, Bell, and Vinal.)
Peterson, James L., assignor of one-half to W. Parrish, Logan, and one-half to K. L. Stahle, Bountiful, Utah. Traffic control system. 2,285,168; June 2.
Petruschell, Lucius P., Stratford, Conn., assignor to Dictaphone Corporation, New York, N. Y. Electric phonograph. 2,284,678; June 2.
Pezzillo, Albert R., Philadelphia, Pa. Combined motor and pump. 2,285,050; June 2.
Phelps Dodge Copper Products Corporation. (See Chaney, Mont M., assignor.)
Philco Corporation. (See Rundell, Theodore W., assignor.)
Philco Radio and Television Corporation. (See Zepp, Louis H., assignor.)
Phillips, Charles W., assignor of twenty-five per cent to D. Sieman, Warren, Ohio. Plate feed and separator for tinning machines. 2,284,841; June 2.
Phillips, Harry A., Chicago, Ill. Oil separator and method of use. 2,285,123; June 2.
Phillips, Oliver A. (See Donahoo, W. T., and Phillips.)
Pierce, John B., Foundation. (See O'Brien, Joseph F., assignor.)
Pierce, Rex V., Long Beach, Calif., assignor, by mesne assignments, to International Cementers, Inc. Mixing apparatus. 2,284,765; June 2.
Pike, Robert D., Piedmont, assignor to A. W. Stitt, San Francisco, Calif. Vacuum churn. 2,285,124; June 2.
Pilkington Brothers Limited. (See Waldron, Frederic B., assignor.)
Pipkin, Marvin, Cleveland Heights, Ohio, assignor to General Electric Company. Flash lamp. 2,285,125; June 2.
Piron, Emil H., Highland Park, Mich., assignor, by mesne assignments, to Transit Research Corporation, New York, N. Y. Vehicle springing system. 2,284,985; June 2.
Pittsburgh Plate Glass Company. (See Muskat, Irving E., assignor.)

Pittsburgh Plate Glass Company. (See Muskat, I. E., and Ayres, assignors.)
Place, Claude W. (See Johntz, T. E., and Place.)
Platen-Munters Refrigerating System. (See Strandberg, Per P., assignor.)
Plax Corporation. (See Ferngren, Enoch T., assignor.)
Poglein, Louis. (See Sailer, G. D., and Poglein.)
Polyxor Chemical Co. (See Farber, Eduard, assignor.)
Polzer, Fridolin, assignor to The E. H. Hotchkiss Company, Norwalk, Conn. Fastener driving machine. 2,285,354; June 2.
Portnow, Moris, New York, N. Y. Truss. 2,284,986; June 2.
Posten, Carl F., Zanesville, Ohio, assignor to Hazel-Atlas Glass Company, Wheeling, W. Va. Apparatus for handling glassware. 2,284,766; June 2.
Potdevin, Adolph, Garden City, assignor to Potdevin Machine Company, Brooklyn, N. Y. Method of and apparatus for making bags. 2,285,228; June 2.
Potdevin Machine Company. (See Potdevin, Adolph, assignor.)
Potts, Louis M., Evanston, assignor to Teletype Corporation, Chicago, Ill. Code tape printer. 2,284,679; June 2.
Potts, Louis M., Evanston, assignor to Teletype Corporation, Chicago, Ill. Synchronous simplex telegraph system. 2,284,680; June 2.
Potts, Louis M., Evanston, assignor to Teletype Corporation, Chicago, Ill. Recording and exhibiting mechanism. 2,284,681; June 2.
Powell, Henry K., Chicago, Ill. Bottle holder. 2,284,682; June 2.
Preussler, Walter, Berlin-Neukolln, assignor to C. Lorenz Aktiengesellschaft, Lorenzweg, Berlin-Tempelhof, Germany. Remote control system. 2,284,683; June 2.
Pricer, Willie E., Galveston, Tex. Nutcracker. 2,285,355; June 2.
Prime Manufacturing Company. (See Ridderstrom, Andrew R., assignor.)
Prince, David C., Schenectady, N. Y., assignor to General Electric Company. Electric circuit breaker. 2,284,684; June 2.
Prince, David C., Swarthmore, W. K. Rankin and W. F. Skeats, Lansdowne, Pa., assignors to General Electric Company. Circuit breaking apparatus. 2,284,842; June 2.
Pritchard, J. F., and Company. (See Martin, H. A., and Spangler, assignors.)
Pritz, Richard E., Philadelphia, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Sulphur burner. 2,285,170; June 2.
Pujol, Albert J., assignor to Cartier, Inc., New York, N. Y. Brooch accessory. 2,285,051; June 2.
Purifoy, George R., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Control system. 2,284,843; June 2.
Purkiss, Robert B., assignor to The Batesville Casket Company, Batesville, Ind. Casket sealing and locking means. 2,284,921; June 2.
Pyle, Howard C., Glendale, assignor to Union Oil Company of California, Los Angeles, Calif. Well pump. 2,285,169; June 2.
Pyle-National Company, The. (See McDowell, Thomas E., assignor.)
Racklyeft, John W., assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio. Ironing machine. 2,284,767; June 2.
Radiart Corporation, The. (See Mace, Arthur T., assignor.)
Radio Condenser Company. (See Teaf, John H., assignor.)
Radio Corporation of America. (See Bedford, Alda V., assignor.)
Radio Corporation of America. (See Bokovoy, Samuel A., assignor.)
Radio Corporation of America. (See Goshaw, Irl G., assignor.)
Radio Corporation of America. (See Haantjes, J., van Weel, Strutt, and van der Ziel, assignors.)
Radio Corporation of America. (See Hneff, Andrew V., assignor.)
Radio Corporation of America. (See Gusdorf, Frederik H., assignor.)
Radio Corporation of America. (See Kellogg, Edward W., assignor.)
Radio Corporation of America. (See Kemp, Roland J., assignor.)
Radio Corporation of America. (See Koch, Winfield R., assignor.)
Radio Corporation of America. (See Korman, Nathaniel I., assignor.)
Radio Corporation of America. (See Kreuzer, B., and Reiskind, assignors.)
Radio Corporation of America. (See Linder, Ernest G., assignor.)
Radio Corporation of America. (See Morris, Robert M., assignor.)
Radio Corporation of America. (See Rajchman, J. A., and Snyder, Jr., assignors.)
Radio Corporation of America. (See Rosenberg, Albert L., Jr., assignor.)
Radio Corporation of America. (See Watson, Samuel H., Jr., assignor.)
Radio Corporation of America. (See Weathers, P., and Rothenberger, assignors.)
Radio Corporation of America. (See Zworykin, V. K., and Ruedy, assignors.)
Ragsdale, Earl J. W., Norristown, assignor to E. G. Budd Manufacturing Company, Philadelphia, Pa. Passenger railway rolling stock. 2,285,171; June 2.
Railway and Industrial Engineering Company. (See Kast, Samuel H., assignor.)
Rajchman, Jan A., Philadelphia, Pa., and R. L. Snyder, Jr., Glassboro, N. J., assignors to Radio Corporation of America. Electron multiplier. 2,285,126; June 2.
Ramel, Herbert M., University City, and O. M. Storey, assignors to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo. Package. 2,284,987; June 2.
Ramsdell, Frederick M., Worcester, Mass. Cutting tool. 2,284,768; June 2.
Ramsey Accessories Manufacturing Corporation. (See Ramel, H. M., and Storey, assignors.)
Rankin, William K. (See Prince, D. C., Rankin, and Skeats.)
Rappl, Anton, Eggertsville, assignor to Trico Products Corporation, Buffalo, N. Y. Parking windshield cleaner. 2,284,844; June 2.
Rappl, Anton, Buffalo, and D. N. Mussen, Williamsville, assignors to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 2,284,966; June 2.
Rawlins, Herbert L., Wilkinsburg, and A. H. Bakken, Edgewood, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Repeating fuse. 2,284,845; June 2.
Ray, Eugene J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Trimming machine. 2,284,846; June 2.
Ray, Joseph L., Darien, Conn., and R. F. Palmer, Montclair, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Stand for dress forms and the like. 2,284,967; June 2.
Raymond, Robert J., Bulmer, England. Photographic filter and like mount. 2,284,847; June 2.
Rayolite Rifle Range Company. (See Kenney, M. W., and Jensen, assignors.)
Rawlings Manufacturing Company. (See Nolte, E., and Latina, assignors.)
Read Machinery Company, Inc. (See Brennan, A. K., and Jans, assignors.)
Reck, Peter C., assignor to Schwarze Electric Company, Adrian, Mich. Horn mounting. 2,285,304; June 2.
Reconstruction Finance Corporation. (See Westrope, Frederick J., assignor.)
Reel, Raymond D. (See Elvin, W. J., Reel, and Stahl.)
Regan Forge & Engineering Company. (See Minor, Burt S., assignor.)
Reid, Elliott G., Palo Alto, Calif., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 2,284,988; June 2.
Reid, James P., Raleigh, N. C. Valve. 2,285,305; June 2.
Reik, Forrest O. et al. (See Knapp, Robert T.)
Reik, Rudolph A., et al. (See Knapp, Robert T., assignor.)
Reiskind, Hillel I. (See Kreuzer, B., and Reiskind.)
Renholdt, John E. (See Norton, L. D., and Renholdt.)
Rerucha, John V., assignor of one-half to J. T. McMahon, Toledo, Ohio. Gas heated toaster. 2,285,127; June 2.
Resinous Products & Chemical Company, The. (See Rothrock, D. A., and Cheetham, assignors.)
Rich, Paul C. (See Craig, W. A., and Rich.)
Richfield Oil Corporation. (See Craig, W. A., and Rich, assignors.)
Ridderstrom, Andrew R., Nahant, assignor to Prime Manufacturing Company, Lynn, Mass. Manufacture of cartons. 2,285,356; June 2.
Roberts, Frederic M., and L. A. Norris, Schenectady, N. Y., assignors to General Electric Company. Control system. 2,285,229; June 2.
Roberton, Lloyd T., assignor to Roberton Manufacturing Company, Michigan City, Ind. Lawn mower. 2,285,230; June 2.
Roberton Manufacturing Company. (See Roberton, Lloyd T., assignor.)
Robinson, Edwin A., Chatham, assignor to National Oil Products Company, Harrison, N. J. Processing of textile fibers. 2,285,357; June 2.
Rode, Fredrich J., and M. R. Hatch, Toledo, Ohio, assignors to E. W. Bliss Company, Brooklyn, N. Y. Coil cradle. 2,285,358; June 2.
Roesen, Oscar C., Scarsdale, N. Y., assignor to Wood Newspaper Machinery Corporation, Plainfield, N. J. Variable fountain ink supply for presses. 2,285,052; June 2.
Rogers, Clifford R. ((See Baker, D. B., Rogers, and Bechman.)
Rogers, Harry M., Dayton, Ohio, assignor to Chrysler Corporation, Detroit, Mich. Heat exchanger. 2,284,769; June 2.
Rohn, Charles E., assignor of ninety percent to I. Rohn, Sacramento, Calif. Power transmission for bulldozers. 2,285,094; June 2.
Rohn, Inez. (See Rohn, Charles E., assignor.)
Rojas, Floricel A., assignor of one-half to W. H. Liebman, Jr., New York, N. Y. Cementing aluminum to cellulosic material. 2,285,053; June 2.
Rook, Clay H. (See Rook, James A., and C. H.)

Rook, James A., and C. H. Rook, Los Angeles, Calif. Directional signal for automobiles and the like. 2,285,064; June 2.
Roper, Geo. D., Corporation. (See Hennessy, John F., assignor.)
Rosch, Georg, Cologne-Deutz, O. Bayer and H. Hoyer, Leverkusen-I. G. Werk, Germany, assignors to General Aniline & Film Corporation. Phthalocyanine sulphonic acids. 2,285,359; June 2.
Roseman, Joseph A., Glenview, Ill. Mower attachment for tractors. 2,285,306; June 2.
Rosenberg, Albert L., Jr., Oaklyn, N. J., assignor to Radio Corporation of America. Inductance device. 2,285,128; June 2.
Rosenberger, William A., Hagerstown, Md. Ashtray. 2,285,360; June 2.
Rosing, Theodore F. (See Kuhn, C. W., Rosing and Stevens.)
Roters, Herbert C., and H. C. Pasini, Hoboken, N. J., assignors to Standard Electric Hammer Corporation. Electric reciprocating tool. 2,285,361; June 2.
Rothenberger, William L. (See Weathers, P., and Rothenberger.)
Rothrock, David A., and H. C. Cheetham, assignors to The Resinous Products & Chemical Company, Philadelphia, Pa. Hot melt coating. 2,285,095; June 2.
Rottke, Hermann A., Berlin-Schlachtensee, Germany, assignor to International Business Machines Corporation, New York, N. Y. Reconditioning perforated record cards. 2,285,362; June 2.
Royal Typewriter Company Inc. (See Handley, George F., assignor.)
Rozin, Arthur E., and H. R. Rozin, Cincinnati, Ohio. Dispensing cabinet. 2,285,055; June 2.
Rozin, Harry R. (See Rozin, Arthur E., and H. R.)
Rubinoff, Mark, New York, N. Y. Combination tag and seal. 2,284,922; June 2.
Rue, Harold E., Wauwatosa, Wis., assignor to Pabst Brewing Company, Chicago, Ill. Carton construction. 2,284,989; June 2.
Ruedy, John E. (See Zworykin, V. K., and Ruedy.)
Rumore, Ross J., Birmingham, Ala. Reciprocating pump. 2,285,303; June 2.
Rupright, Bert A., assignor of one-half to Leon Grabowski, Lansing, Mich. Collapsible tent frame. 2,284,686; June 2.
Rundell, Theodore W., Jenkintown, assignor to Philco Corporation, Philadelphia, Pa. Crisper pan for domestic refrigerators. 2,285,363; June 2.
Ruska, Walter, Houston, Tex., assignor of forty percent to Vehicular Parking, Ltd., Washington, D. C. Parking meter. 2,285,056; June 2.
Russell, Alfred R., Grosse Pointe, Mich. Smoker's pipe. 2,285,057; June 2.
Rutemiller, Oren G. (See Morton, H. E., and Rutemiller.)
Ryan, James S., Woburn, Mass. Method and apparatus for drying glue. 2,284,848; June 2.
Ryznar, John W. (See Lindsay, F. K., and Ryznar.)
Saf-T-Pop Corporation. (See Spohr, Carl W., assignor.)
Sailer, George D., and L. Poglein, assignors to McKee Glass Company, Jeannette, Pa. Combination beverage dispenser and ice jar. 2,285,096; June 2.
Samans, Walter, assignor to Sun Oil Company, Philadelphia, Pa. Vaporizer. 2,284,623; June 2.
Samson, Kurt A. R., assignor, by mesne assignments, to Cinema-Television Limited, London, England. Manufacturing mosaic electrodes. 2,285,058; June 2.
Sanders, Louis S. (See McIntosh, Maurice D., assignor.)
Sapp, Robert W. (See Coleman, G. H., and Sapp.)
Saunders-Roe Limited. (See Dowden, P. R., and Knowler, assignors.)
Scanlan, John T., and D. Swern, Washington, D. C., assignors to Henry A. Wallace, as Secretary of Agriculture, of the United States of America, and to his successors in office. Preparing aldehydes. 2,285,059; June 2.
Scharf, Frank W., San Gabriel, Calif., assignor to McGraw Electric Company, Elgin, Ill. Automatic electric toaster. 2,285,231; June 2.
Scheuer, Clemens, Forest Hills, N. Y. Garment rack. 2,284,770; June 2.
Schick, Harvey W., Chicago, Ill. Reinforced concrete building construction. 2,284,923; June 2.
Schiernbeck, Norbert R. (See Mason, Roy T., assignor.)
Schimanek, Emil, Budapest, Hungary. Controlling the charge of internal combustion motors. 2,284,687; June 2.
Schipplock, Charles J., assignor to Crane Co., Chicago, Ill. Galvanizing kettle. 2,285,364; June 2.
Schlumberger, Marcel, Fabert-Paris, France. Method and apparatus for electrical prospecting. 2,284,990; June 2.
Schmidt, Karl H., London, England. Electric rectifier or converter. 2,285,097; June 2.
Schmutz, Julius, assignor to Schmutz Manufacturing Co., Louisville, Ky. Flexible printing plate. 2,285,060; June 2.
Schmutz Manufacturing Co. (See Schmutz, Julius, assignor.)
Schneider, Elbert D., Scotia, N. Y., assignor to General Electric Company. Control system. 2,285,172; June 2.
Schneider, Elbert D., Scotia, N. Y., assignor to General Electric Company. Electric valve circuit. 2,285,173; June 2.
Schneider, Wilhelm. (See Fess, E., and Schneider.)
Schoch, Eugene P., and W. A. Cunningham, Austin, Tex. Making fiber plaster products. 2,285,098; June 2.
Schoenberger, W. J., Company, The. (See Stuckenholt, Casper S., assignor.)
Schrak, William A., East Orange, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Shockproof mounting. 2,284,771; June 2.
Schreyer, Edward P., Milwaukee, Wis. Book end. 2,284,849; June 2.
Schubert & Salzer Maschinenfabrik Aktiengesellschaft. (See Tuchscherer, Paul, assignor.)
Schwarcz, Herman, assignor of fifteen per cent to J. J. Wittal, New York, N. Y. Manufacturing alcohol. 2,285,130; June 2.
Schwartzberg, Louis, Chicago, Ill. Container. 2,285,129; June 2.
Schwarze Electric Company. (See Reck, Peter C., assignor.)
Schweitzer & Conrad, Inc. (See Conrad, Nicholas J., assignor.)
Schweitzer & Conrad, Inc. (See Triplett, H. A., and Lindell, assignors.)
Schwinn, Frank W., Chicago, Ill. Fabricated structure for bicycle frames or the like. 2,284,624; June 2.
Schylander, John F., Chicago, Ill. Combination ashtray and display holder. 2,285,365; June 2.
Science Laboratories, Inc. (See Sperti, George, assignor.)
Scott-Paine, Hubert, Hythe, Southampton, England. Torpedo tube. 2,284,881; June 2.
Seeger Refrigerator Company. (See Ahrens, Robert S., assignor.)
Seidel, George R., Baltimore, Md., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of improved titanium pigments. 2,284,772; June 2.
Selby, Katherine C. (See Palmer, R. F., and Selby.)
Selmer, H. & A., Inc. (See Grolimund, Joseph M., assignor.)
Servel, Inc. (See Ullstrand, Hugo M., assignor.)
Sewell, Leonidas L., and J. J. Flynn, San Antonio, Tex. Machine for mixing beverages. 2,284,991; June 2.
Shaw, Abner B., North Dartmouth, Mass. Fertilizer distributing implement. 2,284,992; June 2.
Sheehan, Albert J., San Francisco, Calif. Elevated parking system. 2,285,232; June 2.
Sheets, Robert W., et al. (See Johnson, E. H., and Baughman, assignors.)
Sheffield, Donald H., Brunswick, Ga., assignor to Hercules Powder Company, Wilmington, Del. Making terpene derivatives. 2,285,366; June 2.
Shelmar Products Company. (See La May, Ada, assignor.)
Sher, Samuel, Chicago, Ill. Lamp shade construction. 2,285,307; June 2.
Sherman, G. H., M. D., Incorporated. (See Kober, Philip A., assignor.)
Sherman, Charles R., Kirkwood, Mo., assignor to General Printing Ink Corporation, New York, N. Y. Assembled sheets for the display of printed surfaces. 2,285,379; June 2.
Shoemaker, Montgomery, Alfred, N. Y. Coin-controlled machine. 2,285,061; June 2.
Shoudy, Paul A., Seattle, Wash., assignor to Kirsten Pipe Company. Tobacco-pipe reamer. 2,284,924; June 2.
Shoup, Ransom F., Ardmore, assignor to The Shoup Voting Machine Corporation, Philadelphia, Pa. Voting machine. 2,285,367; June 2.
Shoup Voting Machine Corporation, The. (See Shoup, Ransom F., assignor.)
Sieman, David. (See Phillips, Charles W., assignor.)
Signode Steel Strapping Company. (See Marchev, Alfred, assignor.)
Simmons, Elbia C., Albemarle, N. C. Grave protector. 2,284,993; June 2.
Simons, Arthur E., Berkeley, assignor to Standard Oil Company of California, San Francisco, Calif. Carton. 2,285,174; June 2.
Sinclair, Percy L., assignor to Lumbard-Watson Co., Auburn, Maine. Heel seat fitting. 2,284,882; June 2.
Singer Manufacturing Company, The. (See Palmer, R. F., and Selby, assignors.)
Singer Manufacturing Company, The. (See Ray, J. L., and Palmer, assignors.)
Sivian, Leon J., East Orange, N. J., and E. C. Wente, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Forming thin articles. 2,284,773; June 2.
Skeats, Wilfred F. (See Prince, D. C., Rankin, and Skeats.)
Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Shaker conveyer trough connecting means. 2,284,925; June 2.
Smith, A. O., Corporation. (See Tiedemann, Julius B., assignor.)
Smith, Arthur E., Los Angeles, Calif. Hypodermic syringe. 2,284,774; June 2.
Smith, Arthur M., Fort Wayne, Ind., assignor to General Electric Company. Making dynamoelectric machine. 2,285,233; June 2.
Smith, Boyd H. (See Harrington, J. R., and Smith.)
Smith, Donald L. J. (See Judels, C., and Smith.)
Smith, Louise G., Atlanta, Ga. Shoulder protector for garment supporters. 2,285,368; June 2.
Smith, Oris J. (See Mautz, F. R., and Smith.)

Smith, Philip N., Melrose Highlands, assignor to H. V. Hayes, Boston, Mass. Speed indicating apparatus. 2,284,850; June 2.
Smith, Raymond B., and J. H. Norman, Elmhurst, Ill. Bottle attachment. 2,284,625; June 2.
Smith, Thomas, Company. (See Frost, Sherman W., assignor.)
Smith, William A., Akron, assignor to The Ohio Brass Company, Mansfield, Ohio. Terminal for bushing insulators. 2,284,926; June 2.
Smith, William J., Delaware City, Del. Automatic brake control. 2,285,369; June 2.
Snyder, Richard L., Jr. (See Rajchman, J. A., and Snyder.)
Society of Chemical Industry in Basle. (See Haller, R., and Heckendorn, assignors.)
Socony-Vacuum Oil Company. (See Fisher, Gerald M., assignor.)
Solomon, Nathan L., Mount Vernon, N. Y. Multiple hair curler. 2,284,688; June 2.
Sommer, Alfred, assignor, by mesne assignments, to Cinema-Television Limited, London, England. Photo-electrically sensitive electrode. 2,285,062; June 2.
Spangler, Carl V. (See Martin, H. A., and Spangler.)
Sparling, Oliver H., assignor of one-third to W. P. Heath, and one-third to B. T. Heinz, Seattle, Wash. Lamp socket. 2,285,175; June 2.
Specht, Harry G., Montclair, assignor to Encor Corporation, Belleville, N. J. Making wire or strips. 2,285,308; June 2.
Specht, Rudolph, Jamaica, N. Y. Water main lock. 2,285,099; June 2.
Special Equipment Company. (See Ewald, Raymond L., assignor.)
Specialties Development Corporation. (See Grant, Harry C., Jr., assignor.)
Speed, Roy L., San Francisco, Calif. Unitary structural system. 2,284,927; June 2.
Sperti, George, Covington, Ky., assignor to Science Laboratories, Inc., Norwood, Ohio. Ultra violet light source. 2,284,775; June 2.
Spohr, Carl W., Chicago, Ill., assignor to Saf-T-Pop Corporation, Dubuque, Iowa. Confection handling mechanism. 2,284,928; June 2.
Spring Packing Corporation. (See Landreth, John T., assignor.)
Staelin, Carl G., Toledo, Ohio, assignor to Owens-Illinois Glass Company. Forming hollow articles. 2,285,370; June 2.
Stahl, Elmer R. (See Elvin, W. J., Reel, and Stahl.)
Stahle, Keith L., et al. (See Peterson, James L., assignor.)
Standard Electric Hammer Corporation. (See Roters, H. C., and Pasini, assignors.)
Standard Oil Company of California. (See Dayhuff, W. C., and Laurence, assignors.)
Standard Oil Company of California. (See Simons, Arthur E., assignor.)
Standard Oil Development Company. (See Henminger, Charles E., assignor.)
Standard Railway Devices Company. (See Bonsall, Charles D., assignor.)
States Company, The. (See Larson, Werner J., assignor.)
Stauss, Karl R., Vestal, assignor to International Business Machines Corporation, New York, N. Y. Paper sheet testing device. 2,285,371; June 2.
Stedfast Rubber Company. (See Clifford, James J., assignor.)
Steele, James W., North Kansas City, Mo. Garment folding apparatus. 2,285,063; June 2.
Steinmetz, Joachim, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Modulation system. 2,284,689; June 2.
Stern, William, Park Ridge, assignor to Illinois Tool Works, Chicago, Ill. Screw and lock washer assembly machine. 2,284,690; June 2.
Stevens, William C. (See Kuhn, C. W., Rosing and Stevens.)
Stevenson, Charlotte V., New York, N. Y. Button fastener. 2,285,309; June 2.
Stewart, Alexander P., Detroit, Mich. Making die spotting devices. 2,284,929; June 2.
Stewart, Wilson M., Ottawa, Ontario, Canada, assignor to Hydro-Silica Corporation, Gasport, N. Y. Vending machine. 2,284,931; June 2.
Stickdorn, Kurt, Dessau-Rosslau/Anhalt, assignor, by mesne assignments, to "Unichem" Chemikalien Handels A.-G., Zurich, Switzerland. Refining montan wax. 2,285,100; June 2.
Stitt, A. W. (See Pike, Robert D., assignor.)
Stoker, William P., Beverly Hills, Calif. Footwear. 2,284,930; June 2.
Stoner, Arthur M., West Hartford, assignor to The Jacobs Manufacturing Company, Hartford, Conn. Chuck. 2,285,101; June 2.
Stop Motion Devices Corporation. (See Vossen, Edward, assignor.)
Storey, Omar M. (See Ramel, H. M., and Storey.)
Strandberg, Per P., assignor to Platen-Munters Refrigerating System, Aktiebolag, Stockholm, Sweden. Refrigeration. 2,284,691; June 2.
Straw, Harry H., Boston, Mass., assignor to Beckwith Manufacturing Company, Dover, N. H. Dress form and making the same. 2,285,064; June 2.
Strebinger, Robert L., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake. 2,285,310; June 2.
Strube, Harry L., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Vibrating screen. 2,284,692; June 2.
Strutt, Maximilliaan J. O. (See Haantjes, van Weel, Strutt and van der Ziel.)
Strutt, Maximilliaan J. O. (See Strutt, M. J. O., Knol and van der Ziel.)
Strutt, Maximiliaan Julius Otto, Kornelis Swier Knol and A. van der Ziel, Eindhoven, Netherlands. Push-pull mixing circuits for ultra-short waves. 2,285,372; June 2.
Stuart, Robert, Forest Hills, N. Y. Microphoto indexing system. 2,284,776; June 2.
Stuckenholt, Casper S., assignor to The W. J. Schoenberger Company, Cleveland, Ohio. Floor furnace valve. 2,284,994; June 2.
Stuckenholt, Casper S., assignor to The W. J. Schoenberger Company, Cleveland, Ohio. Floor furnace valve. 2,284,995; June 2.
Stuckenholt, Casper S., assignor to The W. J. Schoenberger Company, Cleveland, Ohio. Floor furnace valve. 2,284,996; June 2.
Submarine Signal Company. (See Grabau, William C., assignor.)
Submarine Signal Company. (See Harrison, Bertram M., assignor.)
Submarine Signal Company. (See Truner, Edwin E., Jr., assignor.)
Sullivan Machinery Company. (See Joy, Joseph F., assignor.)
Sullivan Machinery Company. (See Osgood, Charles F., assignor.)
Sun Oil Company. (See Samans, Walter, assignor.)
Sund, Fred, Newburg, N. Dak. Pickup mechanism. 2,284,777; June 2.
Sundstrand, Oscar J., West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Accounting machine. 2,285,311; June 2.
Svendsen, Trygve H., Chicago, Ill. Fuel indicator. 2,284,997; June 2.
Swanton, Charles L., North Chili, assignor to General Railway Signal Company, Rochester, N. Y. Switch and signal control system for railroads. 2,285,312; June 2.
Swern, Daniel. (See Scanlan, J. T., and Swern.)
Swinburne, James. (See Ashley, C. M., and Swinburne.)
Symington-Gould Corporation, The. (See Barrows, D. S., and Lusink, assignors.)
Symons, Loren G., Hollywood, Calif., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Securing means for screen cloth. 2,284,883; June 2.
Tagliaboschi, Louis A., Metuchen, N. J. Motorcycle stand. 2,285,313; June 2.
Tauber, Rudolf, New York, N. Y. Loose leaf binder. 2,285,234; June 2.
Taubert, George G., Pittsfield, Mass., assignor to General Electric Company. Desk pad. 2,285,235; June 2.
Taylor, Ewing H., assignor to W. S. Carter, Dallas, Tex. Card holder. 2,285,176; June 2.
Taylor, Walter A., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Making edible baked products. 2,285,065; June 2.
Teaf, John H., Westmont, assignor to Radio Condenser Company, Camden, N. J. Mechanical setting mechanism for radio tuning structures. 2,285,102; June 2.
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Bergtold, Fritz, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Dohsmann, W., and Leyn, assignors.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Kummerer, Wilhelm, assignor.)
Teletype Corporation. (See Madsen, Berthel F., assignor.)
Teletype Corporation. (See Potts, Louis M., assignor.)
Ternstedt Manufacturing Company. (See Nelson, Algott L., assignor.)
Thiemann, William B., Albert City, Iowa. Electrically operated pump jack. 2,284,932; June 2.
Thinius, Kurt, assignor to Deutsche Celluloidfabrik Aktiengesellschaft, Eilenburg, Germany. Polyamides combined with cellulose derivatives. 2,285,178; June 2.
Thomas, Charles L., and J. E. Ahlberg, assignors to Universal Oil Products Company, Chicago, Ill. Manufacture of catalysts. 2,285,314; June 2.
Thompson, Charles M., Merion, assignor to Henry Disston & Sons, Incorporated, Tacony, Pa. Inserted section saw. 2,285,315; June 2.
Thompson, Robert G., Seattle, Wash. Carton and closure therefor. 2,285,066; June 2.
Thompson, Robert G., Seattle, Wash. Reclosure carton. 2,285,067; June 2.
Thompson, Tliford B., Minneapolis, Minn. Match book. 2,285,177; June 2.
Thomson, Samuel G., assignor to Zimmer-Thomson Corporation, Flushing, Long Island, N. Y. Folding litter. 2,285,238; June 2.
Tiedemann, Julius B., assignor to A. O. Smith Corporation, Milwaukee, Wis. Electric welding machine. 2,284,851; June 2.
Titus, Wilford E., Dallas, Tex. Vending machine. 2,285,068; June 2.
Toby, Max E. (See Nigra, F., and Toby.)

Tompkins, Edward De V., New York, N. Y. Portable sawing apparatus. 2,284,693; June 2.
Tor-Vel Associates. (See Watson, Sydney C., assignor.)
Townsend, Leonard G., Washington, D. C. Phonetic verifier. 2,284,694; June 2.
Transit Research Corporation. (See Prion, Emil H., assignor.)
Trautvetter, George, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Making sheet-material parts. 2,284,697; June 2.
Travilla, James C., Jr., University City, and E. C. Jackson, Clayton, Mo., assignors to General Steel Castings Corporation, Granite City, Ill. Railway truck. 2,284,695; June 2.
Travilla, James C., Jr., University City, and E. C. Jackson, Clayton, Mo., assignors to General Steel Castings Corporation, Granite City, Ill. Railway truck structure. 2,284,696; June 2.
Treiber, Theodore R., Chicago, Ill. Sheet holder for beds. 2,284,778; June 2.
Trico Products Corporation. (See Horton, Erwin C., assignor.)
Trico Products Corporation. (See Rappl, Anton, assignor.)
Trico Products Corporation. (See Rappl, A., and Mussen, assignors.)
Triplett, Hugh A., Wilmette, and Sigurd I. Lindell, assignors to Schweitzer & Conrad, Inc., Chicago, Ill. Switch construction. 2,285,316; June 2.
Trotter, George C., assignor to Illinois Tool Works, Chicago, Ill. Screw and washer assembling machine and method. 2,284,698; June 2.
Tryfus, Frédéric, Paris, France, assignor to Bioform Dental Corporation, New York, N. Y. Artificial tooth. 2,285,179; June 2.
Turnbull, Francis W., Chattanooga, Tenn. Double acting cone dispenser. 2,284,779; June 2.
Turner, Edwin E., Jr., West Roxbury, assignor to Submarine Signal Company, Boston, Mass. Distance measuring device. 2,284,699; June 2.
Turner, Ransom H., Great Neck, N. Y. Typing apparatus. 2,284,933; June 2.
Tuschscherer, Paul, assignor to Schubert & Salzer Maschinenfabrik Aktiengesellschaft, Chemnitz, Germany. Device for changing the stroke of slurs. 2,285,240; June 2.
Tyler, Ransom, Greenfield, Wis., assignor to The Oilgear Company, Milwaukee, Wis. Hydraulic drive. 2,284,852; June 2.
Ullstrand, Hugo M., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,285,131; June 2.
Underwood Elliott Fisher Company. (See Sundstrand, Oscar J., assignor.)
"Unichem" Chemikalien Handels A.-G. (See Stickdorn, Kurt, assignor.)
Union Oil Company of California. (See Pyle, Howard C., assignor.)
United Autographic Register Co. (See Euth, John E., assignor.)
United Cotton Products Company. (See Hurst, Edward, assignor.)
United Shoe Machinery Corporation. (See Engel, Karl, assignor.)
United Shoe Machinery Corporation. (See Gookin, Sylvester L., assignor.)
United Shoe Machinery Corporation. (See Lyness, Horatio S., assignor.)
United Shoe Machinery Corporation. (See Ray, Eugene J., assignor.)
United States of America, Claude R. Wickard, as Secretary of Agriculture. (See Palkin, Samuel, assignor.)
United States of America, Henry A. Wallace, as Secretary of Agriculture, of the. (See Scanlan, J. T., and Swern, assignors.)
United States Rubber Company. (See Hurt, Victor H., assignor.)
United Wall Paper Factories, Inc. (See Close, John W., assignor.)
Universal Oil Products Company. (See Thomas, C. L., and Ahlberg, assignors.)
Utilities Distributors, Inc. (See Anderson, Peter A., assignor.)
Van den Biggelaar, Martinus J., Amsterdam, Netherlands. Perforated sheet. 2,285,317; June 2.
Van der Ziel, Aldert. (See Haantjes, J., van Weel, Strutt, and van der Ziel.)
Van der Ziel, Aldert. (See Strutt, M. J. O., Knol, and van der Ziel.)
Van Etten, Scott, Columbus, Ohio. Stoker. 2,285,236; June 2.
Vanhooser, Harry T., Muskogee, Okla. Paper dispenser. 2,284,780; June 2.
Van Weel, Adelbert. (See Haantjes, J., van Weel, Strutt, and van der Ziel.)
Vapor Car Heating Company. (See Parks, Paul B., assignor.)
Varney, Gordon, Chicago, Ill. Model railway truck. 2,284,998; June 2.
Veeder, Harold G., Loudonville, N. Y. Heating system. 2,284,999; June 2.
Vehicular Parking, Ltd. (See Ruska, Walter, assignor.)
Vickers, Harry F., assignor to Vickers, Incorporated, Detroit, Mich. Hydraulic feed control system. 2,285,069; June 2.
Vickers Incorporated. (See Harrington, Ferris T., assignor.)
Vickers, Incorporated. (See Vickers, Harry E., assignor.)
Vigborg, Karl M., assignor to Kooperativa Förbundet Förening U. P. A., Stockholm, Sweden. Cash register, bookkeeping, and calculating machine. 2,284,884; June 2.
Vigborg, Karl M., assignor to Kooperativa Förbundet Förening U. P. A., Stockholm, Sweden. Portable driving device. 2,284,885; June 2.
Vigborg, Karl M., and K. F. Bratt, assignors to Kooperativa Förbundent Förening U. P. A., Stockholm, Sweden. Cash register and the like. 2,284,886; June 2.
Vinal, Leroy W. (See Hall, W. P-G., Person, Bell, and Vinal.)
Vollenweider, Emil, Sacramento, Calif. Engine starting device. 2,284,887; June 2.
Vossen, Edward, assignor to Stop Motion Devices Corporation, Brooklyn, N. Y. Electric stop motion controller for knitting machine. 2,285,237; June 2.
Vossler, Henry. (See Mirando, F. A., and Vossler.)
Wahlforss, Eric, Chicago, Ill., assignor to The Glidden Company, Cleveland, Ohio. Soya bean product. 2,284,700; June 2.
Waldorf Paper Products Company. (See Boeye, Paul F., assignor.)
Waldorf Paper Products Company. (See Guyer, Reynolds, assignor.)
Waldorf Paper Products Company. (See Guyer, R., and Hennessey, assignors.)
Waldron, Frederic B., Prescot, assignor to Pilkington Brothers Limited, Liverpool, 2, England. Apparatus for polishing glass. 2,285,318; June 2.
Wall, Eugene J., Mount Vernon, Ill. Attachment for roller skates. 2,285,373; June 2.
Wall, Reuben E., Winston-Salem, N. C. Unloading mechanism for trucks. 2,284,853; June 2.
Wall, Thomas J., Fairfield, assignor to The Norwalk Hat Company, Norwalk, Conn. Hat manufacture. 2,284,854; June 2.
Wallace, Columbus C., Fort Henry, Tenn. Swinging pencil holder. 2,285,000; June 2.
Walther, George, and C. W. Leslie, assignors to The Dayton Steel Foundry Company, Dayton, Ohio. Brake. 2,285,241; June 2.
Ward, Willard H., St. Johnsbury, Vt., assignor to Fairbanks, Morse & Co., Chicago, Ill. Hopper. 2,284,781; June 2.
Wardenburg, Frederic A., and R. L. Dodge, Wilmington, Del. Calculator. 2,284,701; June 2.
Warner, Stanley F. (See Hanson, A. N., and Warner.)
Warren Featherbone Co., The. (See Gelow, Albert J., assignor.)
Warren Paper Products Company. (See Grimm, Karl R., assignor.)
Watson, Samuel H., Jr., Audubon, N. J., assignor to Radio Corporation of America. Antenna. 2,284,782; June 2.
Watson, Sydney C., Chicago, Ill., assignor to Tor-Vel Associates, having as trustees S. C. Watson and A. J. Parcelle. Shaft coupling. 2,284,934; June 2.
Weathers, Paul, Audubon, and W. L. Rothenberger, Merchantville, N. J., assignors to Radio Corporation of America. Combination electric musical instrument. 2,285,132; June 2.
Weaver, Richard, Indianapolis, Ind. Photographer's exposure indicator. 2,284,783; June 2.
Webb, James L., Gainesville, Tex. Variable spacing mechanism for typewriters. 2,284,702; June 2.
Weber, Carl M., Rochester, N. Y. Rewind mechanism. 2,285,070; June 2.
Weber, Isaac E., Luton, and W. S. Wood, Harpenden, England. Manufacture of barium sulphate. 2,285,242; June 2.
Webster Engineering Company. (See Bergtholdt, George C., Jr., assignor.)
Weinberg, Maurice J., New York, N. Y. Butter chip maker attachment. 2,285,180; June 2.
Weinmayr, Viktor, Pitman, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Nuclear alkylation of amino substituted aromatic ethers. 2,285,243; June 2.
Welblund, Albert, and F. Benard, Sudbury, Ontario, assignors to The International Nickel Company of Canada, Limited, Copper Cliff, Ontario, Canada. Continuously molding metals. 2,284,703; June 2.
Welblund, Albert, and F. Benard, Sudbury, Ontario, assignors to The International Nickel Company of Canada, Limited, Copper Cliff, Ontario, Canada. Apparatus for continuously molding metals. 2,284,704; June 2.
Wente, Edward C. (See Sivian, L. J., and Wente.)
West, Julian M., Ridgewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Amplifier circuits. 2,284,855; June 2.
Western Electric Company. (See Bureau, Arthur A., assignor.)
Western Electric Company. (See Burger, Michael J., assignor.)
Western Electric Company. (See Czajka, John, assignor.)
Western Electric Company. (See Fitch, Hugh, assignor.)
Western Electric Company. (See Hanson, A. N., and Warner, assignors.)
Western Electric Company. (See Malhiot, Eugene L., assignor.)

Western Electric Company. (See Martindell, Frank, assignor.)
Western Electric Company. (See Paulson, Christian, assignor.)
Western Electric Company. (See Wines, William B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Barnes, Thomas D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Cook, Willard G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Gary, Clarence E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Gulliksen, Finn H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jennings, O. S., and Gano, assignors.)
Westinghouse Electric & Manufacturing Company. (See Marbury, Ralph E., assignor.)
Westinghouse Electric & Manufacturing Company. (See May, John W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Morton, H. E., and (Rutemiller, assignor.)
Westinghouse Electric & Manufacturing Company. (See Purifoy, G. R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Rawlins, H. L., and Bakken, assignors.)
Westrope, Frederick J., Pleasant Ridge, assignor, by mesne assignments, to Reconstruction Finance Corporation, Detroit, Mich. Visor. 2,284,784; June 2.
Wheeler, Harley T., Dallas, Tex. Polysegmental packing ring. 2,285,319; June 2.
Wheeler Stamping Company. (See McGinnis, Archibald B., assignor.)
White, John W., assignor to Bendix Aviation Corporation, South Bend, Ind. Master cylinder. 2,284,935; June 2.
Whitmore, Howard, Lockport, N. Y. Steam engine valve. 2,285,320; June 2.
Whittier, Carlton P. (See Hohl, J., Bjering, and Whittier.)
Wickersham, James N., Kansas City, Kans. Shingle. 2,284,705; June 2.
Wiessner, Alfred, and W. Hagen, Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Arrangement for the transmission of intelligence. 2,284,706; June 2.
Wildhaber, Ernest, Irondequoit, N. Y., assignor to Gleason Works, Rochester, N. Y. Cutter for and method of cutting gears. 2,285,133; June 2.
Wiley, Richard H. (See Brubaker, M. M., Hanford, and Wiley.)
Wilkey, John E., South Euclid, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Frictional material and making same. 2,284,785; June 2.
Wilkinson, Archie C. (See Dyer, J. G., and Wilkinson.)
Williams, Alfred O., Battle Creek, assignor to Clark Equipment Company, Buchanan, Mich. Brake. 2,285,134; June 2.
Williams, Jewell R., Oak Park, Ill., assignor to Raymond T. Moloney. Switch for pin tables. 2,285,244; June 2.
Williams, Ki, Waynesboro, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of artificial filaments. 2,285,245; June 2.
Williams, Paul H., assignor to The National Cash Register Company, Dayton, Ohio. Accounting machine. 2,284,786; June 2.
Williams, Robert A., assignor to Ditto, Incorporated, Chicago, Ill. Duplicating apparatus. 2,285,135; June 2.
Williamson, Eugene D. (See Berge, Joseph M., assignor.)
Wilshusen, August E., Ypsilanti, Mich. Direction indicator means. 2,284,936; June 2.
Wilson, Francis J., Memphis, Tenn. Apparatus for measuring soil or hydrostatic pressures. 2,284,707; June 2.
Wilson Lighting Inc. (See Wilson, Wesley, assignor.)
Wilson, Wesley, Chicago, Ill. Lighting fixture. 2,285,001; June 2.
Wilson, Wesley, assignor to Wilson Lighting Inc., Chicago, Ill. Lighting fixture. 2,285,002; June 2.
Wines, William B., Downers Grove, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Glass working machine. 2,285,181; June 2.
Winkler, Jack, Brooklyn, N. Y. Filter. 2,284,787; June 2.
Winther, Martin P., Waukegan, Ill., assignor to Martin P. Winther, as trustee. Electrical control apparatus. 2,285,246; June 2.
Wittal, Julian J. (See Schwarcz, Herman, assignor.)
Wolcott, Frank E. (See Binon, Georges, assignor.)
Wolf, Abraham, assignor to Noma Electric Corporation, New York, N. Y. Electric light socket. 2,284,788; June 2.
Wolf Brothers. (See Wolf, Howard A.)
Wolf, Elias, et al., copartners. (See Wolf, Howard A., assignor.)
Wolf, Howard A., assignor to L., E., H. A., and W. L. Wolf, copartners trading and doing business as Wolf Brothers, Philadelphia, Pa. Display container. 2,285,103; June 2.
Wolf, Howard A., et al., copartners. (See Wolf, Howard A., assignor.)
Wolf, Louis, et al., copartners. (See Wolf, Howard A., assignor.)
Wolf, Walter L., et al., copartners. (See Wolf, Howard A., assignor.)
Wolff, Franklyn J., Trenton, N. J. Airplane equipped to heat the wings. 2,285,071; June 2.
Wolfskill, John M., assignor to Bliley Electric Company, Erie, Pa. Piezoelectric crystal apparatus. 2,284,968; June 2.
Wolodarsky, Jacob. (See Munschak, Uscher, assignor.)
Wood, Edwin J., Detroit, Mich. Pipe fitting. 2,284,937; June 2.
Wood Newspaper Machinery Corporation. (See Roesen, Oscar C., assignor.)
Wood, William S. (See Weber, I. E., and Wood.)
Woods, Everett T. (See Kapp, R., Mosch, and Woods.)
Woolley, Ernest L., Providence, R. I. Fuel burner. 2,284,708; June 2.
Wright, Francis S. (See Jackson, A. S., Heyne, and Wright.)
Wydler, Johann J. (See Griswold, R. G., and Wydler.)
Young, David W., Flushing, assignor to General Chemical Company, New York, N. Y. Production of titanium compound. 2,285,104; June 2.
Youngstown Steel Door Company, The. (See Beauchamp, Wilfred A., assignor.)
Zademach, Erich R., Elizabeth, N. J., assignor to Metalwash Machinery Co., Inc., New York, N. Y. Delivery table. 2,285,321; June 2.
Zdanowich, Richard, assignor to D. Napier & Son Limited, London, England. Damping vibrations in reciprocating engines. 2,285,072; June 2.
Zepp, Louis H., assignor, by mesne assignments, to Philco Radio and Television Corporation, Philadelphia, Pa. Control device for radio receivers and the like. 2,285,247; June 2.
Zimmer-Thomson Corporation. (See Thomson, Samuel G., assignor.)
Zimmerman, David, assignor to R. Zimmerman, Kansas City, Mo. Water closet flushing apparatus. 2,285,073; June 2.
Zimmerman, Rita. (See Zimmerman, David, assignor.)
Zinkil, Roy H. (See Marchand, E. W., Jr., Fredrickson, and Zinkil.)
Zoder, Orren E., assignor, by mesne assignments, to Zoder, Incorporated, St. Louis, Mo. Safety apparatus. 2,284,709; June 2.
Zoder, Incorporated. (See Zoder, Orren E., assignor.)
Zworykin, Vladimir K., Philadelphia, Pa., and J. E. Ruedy, Merchantville, N. J., assignors to Radio Corporation of America. Vacuum plumbing. 2,284,710; June 2.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 2D DAY OF JUNE, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Exercising machine. H. J. Marlowe. Re. 22,105; June 2.
Press for forming sheet metal shells, Punch. M. A. McCreary. Re. 22,106; June 2.
Warps, Sizing. W. Harris. Re. 22,104; June 2.
Wheel. R. J. Burrows and A. O. Williams. Re. 22,107; June 2.

LIST OF PLANT INVENTIONS

Plant, Rose. R. L. Byrum. 525–6; June 2.

LIST OF DESIGN INVENTIONS

Ashtray or similar receptacle. J. Hommer. 132,593; June 2.
Badge or the like. J. H. Elliott. 132,592; June 2.
Beret or similar article. M. J. Marks. 132,637; June 2.
Block, Building. W. A. Larson. 132,594; June 2.
Block, Building. W. A. Larson. 132,615; June 2.
Bottle and dispensing stopper, Combined. A. A. Flaster. 132,619; June 2.
Bottle for perfume or the like. N. Shapiro. 132,632; June 2.
Bowl or similar article, Shaving. F. McIntosh. 132,625; June 2.
Brooch or similar article. E. Dixon. 132,652–3; June 2.
Brush. H. M. Schwartz. 132,607; June 2.
Caliper, Micrometer. C. T. Rottler. 132,640; June 2.
Case, Accordion. W. Romanoff. 132,599; June 2.
Case, Combined traveling and correspondence. H. W. Russell. 132,604; June 2.
Case, Correspondence. H. W. Russell. 132,618; June 2.
Chain or similar article, Linked. E. Kupchick. 132,624; June 2.
Chair, Barber. F. J. Piotraschke. 132,598; June 2.
Chassis, Stadimeter. D. F. Linsley. 132,595; June 2.
Clock and radio dial, Combined. T. C. Johnson. 132,622; June 2.
Compact. E. Foret. 132,612; June 2.
Container, Card. J. M. Gross. 132,620; June 2.
Desk unit, Combination. J. Martial. 132,638; June 2.
Doll. D. H. Stewart. 132,602; June 2.
Doll or similar article. E. M. O'Neil. 132,597; June 2.
Doorknob. W. R. Schlage. 132,605–6; June 2.
Doorknob. J. A. Tornoe. 132,609; June 2.
Dress. A. L. S. Carroll. 132,646–7; June 2.
Dress. A. L. S. Carroll. 132,658–9; June 2.
Dress. M. Fauth. 132,648; June 2.
Dress. M. Fields. 132,660; June 2.
Dress. L. Katz. 132,656; June 2.
Dress. H. H. Stahl. 132,649; June 2.
Dress. S. Zahn. 132,651; June 2.
Dress ensemble. S. Zahn. 132,650; June 2.
Drill or the like, Press. G. R. Wilcox. 132,603; June 2.
Emblem or similar article, Applique. W. P. Burn and H. L. Jurkops. 132,588–9; June 2.
Eyecup or similar article. J. S. Steelman. 132,608; June 2.
Filter, Water faucet. I. Zuckerman. 132,610; June 2.
Frame, Picture. S. Colef. 132,611; June 2.
Frame, Picture. C. E. Knutson. 132,623; June 2.
Frame, Sewing machine. M. S. Park. 132,626; June 2.
Hat. V. Kelsey. 132,635; June 2.
Holder and ash receptacle, Combination cigarette. E. J. Quilty. 132,631; June 2.
Holder, Cigarette. W. L. Mermis. 132,616; June 2.
Holder, Flower. W. W. Goodman. 132,655; June 2.
Lace. F. P. Gehring. 132,654; June 2.
Lace. I. Zendman, Jr. 132,657; June 2.
Lamp, Fluorescent table. C. E. Swanson. 132,645; June 2.
Lamp, Porch. O. Schwacha. 132,642; June 2.
Loader, Negative. F. A. Mortimer. 132,629; June 2.
Mitt, Baseball. H. B. Latina. 132,636; June 2.
Panel and catch operator, Combined cabinet. E. Borchers. 132,586; June 2.
Pencil. J. J. Sanders. 132,641; June 2.
Pin or similar article, Lapel. P. M. Allen. 132,634; June 2.
Pipe shroud, Exhaust. L. E. Russell. 132,600; June 2.
Plaque or similar article. P. Mitchell. 132,596; June 2.
Plate for a sewing machine, Cover. M. S. Park. 132,628; June 2.
Plate or similar article. V. Schreckengost. 132,601; June 2.
Radiator for a sewing machine. M. S. Park. 132,627; June 2.
Reel, Clothesline. W. Johnson. 132,614; June 2.
Ring or similar article, Finger. A. Elkonin. 132,591; June 2.
Sandal. A. E. Pfeiffer. 132,630; June 2.
Sewing machine. M. S. Park. 132,617; June 2.
Sole, Shoe. G. S. C. Ivan. 132,621; June 2.
Stand, Lamp. M. C. Meyer. 132,639; June 2.
Tab for photographic, cut film holder, Exposure identifying. B. L. Smith. 132,633; June 2.
Table and removable tray, Combined. G. A. Huth. 132,613; June 2.
Textile fabric. M. Christen. 132,587; June 2.
Trouser-skirt, Convertible. E. E. Stricker. 132,643–4; June 2.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 2D DAY OF JUNE, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive article. R. C. Benner and R. L. Melton. 2,284,715; June 2.
Abrasive articles, Manufacture of. R. C. Benner and R. L. Melton. 2,284,716; June 2.
Abrasive material. E. Hurst. 2,284,738; June 2.
Abrasive materials, Manufacture of. E. Hurst. 2,284,739; June 2.
Accelerator, Vulcanization. D. J. Beaver. 2,285,077; June 2.
Accounting machine. O. J. Sundstrand. 2,285,311; June 2.
Accounting machine. P. H. Williams. 2,284,786; June 2.
Adding machine, Listing. L. P. Crosman. 2,284,803; June 2.
Adding, subtracting, and accounting machine. R. W. Fletcher. 2,285,153; June 2.
Adhesive and method of making. J. W. Close. 2,284,800; June 2.
Adjustable chair. J. M. Dorton. 2,285,112; June 2.
Air conditioning apparatus. C. M. Ashley and J. Swinburne. 2,285,075; June 2.
Air conditioning apparatus. C. L. Bryant. 2,285,108; June 2.
Air conditioning apparatus. W. H. Macdonald, Jr. 2,285,042; June 2.
Air conditioning system. L. B. Miller. 2,284,914; June 2.
Air-cooled motor. M. Klavik. 2,285,119; June 2.
Aircraft, High-altitude. F. Nixon and E. I. B. Marpler. 2,284,984; June 2.
Aircraft sustaining rotor. J. A. J. Bennett. 2,284,717; June 2.
Air duct pumper. J. E. Maynard and P. O. Collins. 2,284,912; June 2.
Air flow control. R. A. B. Allen, Jr. 2,284,938; June 2.
Airplane. J. L. Hosford. 2,284,902; June 2.
Airplane equipped to heat the wings. F. J. Wolff. 2,285,071; June 2.
Alcohol. Manufacturing. H. Schwarcz. 2,285,130; June 2.
Aldehydes, Preparing. J. T. Scanlan and D. Swern. 2,285,059; June 2.
Algae in cooling towers, Destroying. G. M. Fisher. 2,284,889; June 2.
Aluminum to cellulosic material, Cementing. F. A. Rojas. 2,285,053; June 2.
Amplifier, Electric wave. M. J. Burger. 2,284,894; June 2.
Analyzing device for statistical machines. M. Maul. 2,285,296; June 2.
Animal trap. C. Harris. 2,284,867; June 2.
Antenna. S. H. Watson, Jr. 2,274,782; June 2.
Anti-lockout time lock. R. H. Clarkson and W. T. Bennam. 2,285,328; June 2.
Apparatus for and method of forming and treating glassware. W. K. Berthold. 2,284,796; June 2.
Apparatus for continuously molding metals. A. Welblund and F. Benard. 2,284,704; June 2.
Apparatus for feeding pulverulent material. E. Lundgren. 2,285,216; June 2.
Apparatus for forming hollow articles from plastic material. E. T. Ferngren. 2,285,150; June 2.
Apparatus for handling glassware. C. F. Posten. 2,284,766; June 2.
Apparatus for measuring soil or hydrostatic pressures. F. J. Wilson. 2,284,707; June 2.
Apparatus for measuring capacity. F. A. Firestone. 2,285,151; June 2.
Apparatus for polishing glass. F. B. Waldron. 2,285,318; June 2.
Apparatus for producing small castings. W. D. Moore. 2,284,835; June 2.
Apparatus for separating liquids of different specific gravities. J. Hirshstein. 2,284,737; June 2.
Apparatus for sorting cards. J. P. Duane. 2,284,808; June 2.
Apparatus for surveying articles of manufacture. G. D. Johnson. 2,285,281; June 2.
Apparatus for transporting oil through pipe lines. J. G. Dyer and A. C. Wilkinson. 2,284,809; June 2.
Apparatus for treating organic material. F. B. Doyle. 2,285,331; June 2.
Archery bow. C. N. Hickman. 2,285,031; June 2.
Article and making the same, Rubber lined. T. D. Nathan. 2,284,761; June 2.
Article used for holding sheets of material together. F. L. Moler. 2,284,834; June 2.
Articles, Forming thin. L. J. Sivian and E. C. Wente. 2,284,773; June 2.

Arrangement for controlling the inductances of loop antennas. F. Bergtold. 2,284,719; June 2.
Ashtray. M. H. Lyon. 2,285,341; June 2.
Ashtray. W. A. Roseuberger. 2,285,366; June 2.
Ashtray and display holder, Combination. J. F. Schylander. 2,285,365; June 2.
Attachment for roller skates. E. J. Wall. 2,285,373; June 2.
Automatic valve. O. F. Hall and L. R. Davis. 2,284,961; June 2.
Automatic valve. H. L. Beekley, R. H. Gilbert and R. H. Lacart. 2,285,323; June 2.
Antenna, Automobile. A. T. Mace. 2,284,752; June 2.
Automobile electric switch. A. Meyer. 2,284,756; June 2.
Backplate for gas installation housings. P. A. Anderson. 2,284,712; June 2.
Baked products, Making edible. W. A. Taylor. 2,285,065; June 2.
Bags, Method of and apparatus for making. A. Potdevin. 2,285,228; June 2.
Base for building walls, Metal. W. M. Goldsmith. 2,285,084; June 2.
Batt forming machine. B. A. Olsen. 2,284,762; June 2.
Bean product, Soya. E. Wahlforss. 2,284,700; June 2.
Bearing: *See*—
Roller bearing. Side bearing.
Bearing and forming the same. W. E. McCullough and E. O. Goerke. 2,284,670; June 2.
Beverage dispenser and ice jar, Combination. G. D. Sailer and L. Poglein. 2,285,096; June 2.
Beverage mixing machines and the like, Timing feed of. J. Kantor. 2,285,284; June 2.
Binder, Loose leaf. R. Tauber. 2,285,234; June 2.
Blade for earth excavating and handling machines. J. F. Lowe. 2,285,039; June 2.
Blade, Wiper. E. C. Horton. 2,284,823; June 2.
Blank handling machine. N. A. Anderson. 2,284,792; June 2.
Block: *See*—
Cast refractory block. Hat block.
Blowout preventer. F. J. Hinderliter. 2,284,869; June 2.
Book end. E. P. Schreyer. 2,284,849; June 2.
Bottle attachment. R. B. Smith and J. H. Norman. 2,284,625; June 2.
Bottle holder. H. K. Powell. 2,284,682; June 2.
Box. P. F. Boeye. 2,284,942; June 2.
Braid. C. Dreyfus. 2,284,728; June 2.
Brake: *See*—
Hydraulic brake.
Brake. A. Y. Dodge. 2,285,257; June 2.
Brake. T. J. Estaque. 2,285,196; June 2.
Brake. R. L. Strebinger. 2,285,310; June 2.
Brake. G. Walther and C. W. Leslie. 2,285,241; June 2.
Brake. A. O. Williams. 2,285,134; June 2.
Brake control, Automatic. W. J. Smith. 2,285,369; June 2.
Breech mechanism for power generating units. R. A. Coffman. 2,284,640; June 2.
Broiler. L. S. Hafner and F. L. Newton. 2,285,271; June 2.
Brooch accessory. A. J. Pujol. 2,285,051; June 2.
Brush bristling machine. W. P. G. Hall, E. R. Person, A. O. Bell, and L. W. Vinal. 2,285,158; June 2.
Building construction, Reinforced concrete. H. W. Schick. 2,284,923; June 2.
Bulb carrying compartment for handles of electric lanterns. W. M. Moxley. 2,285,045; June 2.
Burner: *See*—
Fuel burner. Sulphur burner.
Butter chip maker attachment. M. J. Weinberg. 2,285,180; June 2.
Button fastener. C. V. Stevenson. 2,285,309; June 2.
Cabinet: *See*—
Dispensing cabinet. Refrigerated display cabinet.
Refrigerated cabinet.
Cabinet construction. J. B. Moncrief. 2,285,346; June 2.
Cable connector. H. P. Chandler. 2,284,945; June 2.
Calculating machine. J. R. Peirce. 2,285,353; June 2.
Calculator. F. A. Wardenburg and R. L. Dodge. 2,284,701; June 2.
Can marking machine. A. E. Almgren. 2,284,628; June 2.
Car: *See*—
Railway car.
Car construction, Railway. C. D. Bonsall. 2,284,721; June 2.
Car retarder for railroads. N. C. L. Brown. 2,285,327; June 2.
Car door, Sliding. W. A. Beauchamp. 2,285,078; June 2.

Card holder. E. H. Taylor. 2,285,176; June 2.
Card punching machine. C. D. Lake and F. E. Hamilton. 2,285,289; June 2.
Cards, Reconditioning perforated record. H. A. Rottke. 2,285,362; June 2.
Carpet. R. C. Gebert. 2,285,332; June 2.
Carriage top table. M. R. Nelson. 2,284,917; June 2.
Carrier: *See*—
Cigarette opener and carrier. Composite optical carrier.
Commodity carrier. Growth control and carrier.
Carrier frequency apparatus. W. Hagen. 2,285,085; June 2.
Carton. R. Guyer and R. J. Hennessey. 2,284,959; June 2.
Carton. A. E. Simons. 2,285,174; June 2.
Carton and closure therefor. R. G. Thompson. 2,285,066; June 2.
Carton construction. H. E. Rue. 2,284,989; June 2.
Carton loading machine. R. A. Jones. 2,285,283; June 2.
Carton, Reclosure. R. G. Thompson. 2,285,067; June 2.
Cartons, Manufacture of. A. R. Ridderstrom. 2,285,356; June 2.
Casing for conveying devices for snow removing mechanism. W. E. Klauer. 2,285,162; June 2.
Casing head construction. B. S. Minor. 2,284,983; June 2.
Casket sealing and locking means. R. B. Purkiss. 2,284,921; June 2.
Cast refractory block. G. S. Fulcher. 2,285,026; June 2.
Catalyst and preparing same, Nobel metal. C. O. Henke, R. G. Benner and R. C. W. Jones. 2,285,277; June 2.
Catalysts, Manufacture of. C. L. Thomas and J. E. Ahlberg. 2,285,314; June 2.
Caustic, Concentration of. I. E. Muskat. 2,285,300; June 2.
Caustic, Purification of. I. E. Muskat and F. D. Ayres. 2,285,299; June 2.
Cavity device, Resonant. E. G. Linder. 2,284,751; June 2.
Cellulose derivatives containing sulphur and nitrogen and making same. R. Haller and A. Heckendorn. 2,284,962; June 2.
Cellulose spinning solution and filament produced therefrom. G. A. Paine. 2,284,839; June 2.
Centrifugal blower. C. B. Kidney. 2,285,338; June 2.
Centrifugal pump. J. R. Betts. 2,284,632; June 2.
Centrifugal switch. B. M. Cain. 2,285,186; June 2.
Chain and lubricating the same, Conveyer. G. H. Burt. 2,285,145; June 2.
Chair: *See*—
Adjustable chair.
Chimney wind protector. J. P. Hansen. 2,284,734; June 2.
Chuck. A. M. Stoner. 2,285,101; June 2.
Churn, Vacuum. R. D. Pike. 2,285,124; June 2.
Cigarette opener and carrier. J. J. Cobbs. 2,285,188; June 2.
Circuit: *See*—
Electric valve circuit.
Circuit breaker, Gas blast electric. R. M. Bennett. 2,284,856–7; June 2.
Circuit breaker. J. W. May. 2,285,040; June 2.
Circuit breaker, Electric. D. C. Prince. 2,284,684; June 2.
Circuit breaker equipment, Automatic reclosing. S. B. Crary. 2,285,191; June 2.
Circuit breaker, Fluid blast. W. E. Paul. 2,284,840; June 2.
Circuit breaker, Gas blast electric. L. S. Hobson. 2,284,658; June 2.
Circuit breaking apparatus. D. C. Prince, W. K. Rankin, and W. F. Skeats. 2,284,842; June 2.
Circuit interrupter. O. S. Jennings and H. S. Gano. 2,284,825; June 2.
Circuit interrupting apparatus. N. J. Conrad. 2,282,252; June 2.
Circuits, Amplifier. J. M. West. 2,284,855; June 2.
Circuits, Electric. B. D. Bedford. 2,284,794; June 2.
Circuits for ultra-short waves, Push-pull mixing. M. J. O. Strutt, K. S. Knol and A. van der Ziel. 2,285,372; June 2.
Circuits, Relay switching. H. L. Barney. 2,284,617; June 2.
Cleaner: *See*—
Drain cleaner. Windshield cleaner.
Cleaner for cans, Paint brush. F. C. Hill. 2,284,901; June 2.
Cleaner for locomotive sand pipes, Pneumatic. L. Decker. 2,284,805; June 2.
Clinometer. W. L. E. Keuffel. 2,285,285; June 2.
Clip: *See*—
Collar clip.
Closure for containers. L. S. Pernu. 2,285,227; June 2.
Clutch mechanism, Multiple. B. F. Madsen. 2,284,667; June 2.
Coating apparatus. C. J. Christensen. 2,285,017; June 2.
Coating, Hot melt. D. A. Rothrock and H. C. Cheetham. 2,285,095; June 2.
Coating machine. C. W. Mayer, W. Lueders, and R. J. Consler. 2,285,041; June 2.
Code tape printer. L. M. Potts. 2,284,679; June 2.
Coffee making apparatus. R. Ferris. 2,285,114; June 2.
Coin changing machine. J. E. Hagstrom. 2,285,272; June 2.
Coin-controlled machine. M. Shoemaker. 2,285,061; June 2.
Coin collector apparatus. J. M. Melick. 2,284,755; June 2.
Collapsible tent frame. B. A. Rupright. 2,284,686; June 2.
Collar clip. W. E. De Laney. 2,284,806; June 2.
Color element, Light sensitive. M. Martinez. 2,284,877; June 2.
Commodity carrier. H. A. Conger. 2,284,801; June 2.
Composite optical carrier. L. Banks. 2,284,630; June 2.
Compressor, Fluid. A. J. Lotz. 2,285,215; June 2.
Condenser: *See*—
Electric condenser. Flat tube condenser.
Confection handling mechanism. C. W. Spohr. 2,284,928; June 2.
Connector: *See*—
Cable connector.
Contact. W. E. Mansfield. 2,285,293; June 2.
Container: *See*—
Display container.
Container. J. C. Morrell. 2,285,220; June 2.
Container. L. Schwartzberg. 2,285,129; June 2.
Container and making the same. J. C. Morrell. 2,285,219; June 2.
Container handling apparatus. H. E. Gantzer. 2,285,267; June 2.
Container treating machine. J. M. Hothersall and A. E. Almgren. 2,284,660; June 2.
Containers, Method and apparatus for sealing. W. D. Bell. 2,284,631; June 2.
Control apparatus, Automatic. A. E. Krogh. 2,285,287–8; June 2.
Control device for radio receivers and the like. L. H. Zepp. 2,285,247; June 2.
Control equipment. S. B. Crary. 2,285,192; June 2.
Control equipment. F. A. Hamilton, Jr. 2,285,203; June 2.
Control for refrigerating systems. A. B. Newton. 2,284,918; June 2.
Control mechanism for windows, Drive. F. Y. Gates. 2,285,027; June 2.
Control mechanism. N. Belaef. 2,284,795; June 2.
Control system. W. G. Cook. 2,284,802; June 2.
Control system. G. R. Purifoy. 2,284,843; June 2.
Control system. F. M. Roberts and L. A. Norris. 2,285,229; June 2.
Control system. E. D. Schneider. 2,285,172; June 2.
Control system, Condition. C. I. Hall and F. S. Marcellus. 2,285,204; June 2.
Cooler: *See*—
Evaporative cooler. Resaturation cooler.
Cooling unit, Bottle. A. E. Ladewig. 2,284,875; June 2.
Copolymer containing ethylidene diacrylate or dimethacrylate. L. Coes, Jr. 2,284,639; June 2.
Counter, Shop. G. Olin. 2,285,047; June 2.
Coupling: *See*—
Machine tool coupling. Shaft coupling.
Coupling, Forming a. C. G. Butler. 2,285,014; June 2.
Cover and can handling device. W. S. Campbell. 2,285,187; June 2.
Cover for cable terminal housings. Le R. W. Kelsay. 2,285,034; June 2.
Cradle coil. F. J. Rode and M. R. Hatch. 2,285,358; June 2.
Curler, Multiple hair. N. L. Solomon. 2,284,688; June 2.
Cutlery. J. E. Burns. 2,285,013; June 2.
Cutter: *See*—
Tape cutter.
Cutter for and method of cutting gears. E. Wildhaber. 2,285,133; June 2.
Cutting machine. H. E. Morton and O. G. Rutemiller. 2,284,758; June 2.
Cutting tool. F. M. Ramsdell. 2,284,768; June 2.
Cylinder for brakes, Master. R. Goepfrich. 2,285,382; June 2.
Cylinder heads, Casting finned. J. Dusevoir. 2,284,729; June 2.
Cylinder, Master. J. W. White. 2,284,935; June 2.
Deck lid lock. A. L. Nelson. 2,285,301; June 2.
Decorative material. A. La May. 2,285,212; June 2.
Deflector for hot water shower flow. R. Hetherington. 2,284,736; June 2.
Dehumidifying composition and preparing same. H. A. Martin and C. V. Spangler. 2,284,981; June 2.
Delinting waste puller. J. T. Landreth. 2,284,750; June 2.
Delivery mechanism, Article. H. Horner. 2,284,975; June 2.
Delivery table. E. R. Zademach. 2,285,321; June 2.
Desk. W. M. Hanson and H. E. Bennett. 2,285,159; June 2.
Desk pad. G. G. Taubert. 2,285,235; June 2.
Device for capping containers. A. C. Huston. 2,284,740; June 2.
Device for changing the stroke of slurs. P. Tuschscherer. 2,285,240; June 2.
Diaphragms, Demonstrating device for vaginal. J. R. Arneill, Jr. 2,284,888; June 2.

Die: *See*—
Form varnish die. Thread rolling die.
Die insert. F. P. Gardner. 2,284,950; June 2.
Die spotting devices, Making. A. P. Stewart. 2,284,929; June 2.
Direction finding receiver. H. Berthold. 2,285,081; June 2.
Dispenser: *See*—
Double acting cone dispenser. Food dispenser.
Dispenser. H. P. Duey. 2,284,952; June 2.
Dispensing apparatus. P. Lohn. 2,284,828; June 2.
Dispensing cabinet. A. E. Rozin and H. R. Rozin. 2,285,055; June 2.
Dispensing device. H. C. Grant, Jr. 2,284,650; June 2.
Dispensing device. W. F. Mangels. 2,285,292; June 2.
Display container. H. A. Wolf. 2,285,103; June 2.
Display device. D. V. Lisle. 2,285,214; June 2.
Distance and depth measuring system. B. M. Harrison. 2,284,654; June 2.
Distance measuring device. E. E. Turner, Jr. 2,284,699; June 2.
Distributor, Impulse. C. J. Fitch. 2,285,264; June 2.
Door: *See*—
Car door.
Door mounting. A. M. Buehler. 2,285,011; June 2.
Double action cone dispenser. F. W. Turnbull. 2,284,779; June 2.
Draft control. A. Gustafson. 2,284,652; June 2.
Drain cleaner. R. C. Asnard. 2,284,939; June 2.
Dress form and making the same. H. H. Straw. 2,285,064; June 2.
Dress forms, Making. R. F. Palmer and K. C. Selby. 2,284,965; June 2.
Drier. F. J. Lang. 2,285,290; June 2.
Driving device, Portable. K. M. Vigborg. 2,284,885; June 2.
Drive mechanism for shaker conveyers. E. R. Bergmann. 2,284,718; June 2.
Drum vitalizer. J. M. Grollmund. 2,285,269; June 2.
Drying apparatus, Automatic. A. S. Jackson, C. A. Heyne, and F. S. Wright. 2,285,336; June 2.
Drying process. A. H. McComb. 2,284,913; June 2.
Duplicating apparatus. R. A. Williams. 2,285,135; June 2.
Dynamoelectric apparatus. R. W. Groot and L. F. Hemphill. 2,285,201; June 2.
Dynamoelectric machine. E. H. Freiburghouse. 2,285,199; June 2.
Dynamoelectric machine. W. Heter. 2,284,656–7; June 2.
Dynamoelectric machine, Making. A. M. Smith. 2,285,233; June 2.
Educational apparatus. G. M. Heaney. 2,284,868; June 2.
Elastic-belt garment and making same. W. A. Burkey. 2,285,012; June 2.
Electric condenser. E. Abendroth. 2,285,136; June 2.
Electric discharge tube. F. Herriger. 2,284,655; June 2.
Electric stop motion controller for knitting machine. E. Vossen. 2,285,237; June 2.
Electric switch. W. Dubilier. 2,284,644; June 2.
Electric switch. L. A. Kempton. 2,285,210; June 2.
Electric testing device for contacts. J. J. Buda, Jr. 2,285,194; June 2.
Electric valve circuit. E. D. Schneider. 2,285,173; June 2.
Electrical contact. C. Paulson. 2,285,352; June 2.
Electrical control apparatus. W. C. Grabau. 2,284,649; June 2.
Electrical control apparatus. M. P. Winther. 2,285,246; June 2.
Electrical discharge apparatus for spectographic analysis and the like. S. Anderson. 2,285,322; June 2.
Electrical system. M. A. Edwards. 2,285,195; June 2.
Electrode, Photoelectrically sensitive. A. Sommer. 2,285,062; June 2.
Electrodes, Manufacturing mosaic. K. A. R. Samson. 2,285,058; June 2.
Electromagnetic relay. C. W. Kuhn, T. F. Rosing, and W. C. Stevens. 2,284,621; June 2.
Electromagnetic sound-reproducing device. G. Behre. 2,285,079; June 2.
Electron discharge device. A. V. Haeff. 2,284,733; June 2.
Electron multiplier. J. A. Rajchman and R. L. Snyder, Jr. 2,285,126; June 2.
Embossed material and making the same. V. H. Hurt. 2,285,335; June 2.
Engine: *See*—
Internal combustion engine. Rotary engine.
Engine heater. P. F. Hackethal. 2,284,653; June 2.
Engine starting device. E. Vollenweider. 2,284,887; June 2.
Engine supercharging. R. G. Griswold and J. J. Wydler. 2,284,732; June 2.
Evaporative cooler. R. C. Jackson. 2,284,905; June 2.
Fabric, Making decorated. G. R. Cunnington. 2,284,727; June 2.
Fabricated structure for bicycle frames or the like. F. W. Schwinn. 2,284,624; June 2.
Fastener: *See*—
Button fastener.
Fastener driving machine. F. Polzer. 2,285,354; June 2.
Feeder: *See*—
Sheet feeder.
Feeding unit for tabulating machines. J. E. Euth. 2,285,197; June 2.
Fertilizer distributing implement. A. B. Shaw. 2,284,992; June 2.
Ferrule pinning machine. F. De Bella and T. F. De Bella. 2,285,380; June 2.
Fibers, Processing of textile. E. A. Robinson. 2,285,357; June 2.
Filament testing apparatus. L. W. Davis. 2,285,255; June 2.
Filaments, Production of artificial. K. Williams. 2,285,245; June 2.
Film drying method and apparatus. H. P. Ellis. 2,285,261; June 2.
Film, Processing. C. E. De Yette. 2,285,019; June 2.
Filter. J. Winkler. 2,284,787; June 2.
Filter apparatus. S. Palkin. 2,285,048; June 2.
Flash lamp. M. Pipkin. 2,285,125; June 2.
Flat tube condenser. R. H. Norris. 2,285,225; June 2.
Floor, Building. R. A. Logeman. 2,285,165; June 2.
Floor furnace valve. C. S. Stuckenholt. 2,284,994–6; June 2.
Flow control system for gas burners. H. J. Long. 2,284,910; June 2.
Fluid flow control. R. W. Olsen. 2,285,226; June 2.
Fluids, Method of and apparatus for heating. W. E. Lobo. 2,285,037; June 2.
Flux, Welding. P. Epstein. 2,284,619; June 2.
Foils, films, and the like, Manufacturing. E. Czapek. 2,285,147; June 2.
Folding litter. S. G. Thomson. 2,285,238; June 2.
Folding table. Ferrelle, C. H. 2,284,811; June 2.
Food dispensing device. G. Binon. 2,284,720; June 2.
Footwear. W. P. Stoker. 2,284,930; June 2.
Form varnish die. M. M. Chaney. 2,284,946; June 2.
Forming tool. H. Fitch. 2,285,263; June 2.
Forms, Making. S. P. Lovell. 2,285,376; June 2.
Frame: *See*—
Collapsible tent frame.
Frictional material and making same. J. E. Wilkey. 2,284,785; June 2.
Fruit feeding apparatus. R. L. Ewald. 2,284,647; June 2.
Fuel burner. E. L. Woolley. 2,284,708; June 2.
Fuel indicator. T. H. Svendsen. 2,284,997; June 2.
Fuel, Method and apparatus for burning. W. B. Kerrick. 2,284,906; June 2.
Fuel pump. F. W. Knott and B. Garlius. 2,285,163; June 2.
Furnace: *See*—
Stoker furnace.
Furnace. S. Kneass, Jr. 2,285,036; June 2.
Furnace construction and method of repair. H. H. Blau and K. K. Knaell. 2,284,797; June 2.
Fuse, Repeating. H. L. Rawlins and A. H. Bakken. 2,284,845; June 2.
Garment, Confining. J. A. Martin. 2,285,217; June 2.
Garment, Convertible. A. Chessin. 2,284,723; June 2.
Garment, Drop seat. E. O. Fellroth. 2,284,953; June 2.
Garment folding apparatus. J. W. Steele. 2,285,063; June 2.
Garment rack. C. Scheuer. 2,284,770; June 2.
Gas analyzer. C. Johnson. 2,285,280; June 2.
Gas analysis apparatus. T. Harrison and R. D. Bean. 2,284,818; June 2.
Gasoline from natural gas, Recovery of. W. C. Dayhuff and J. E. Laurance. 2,284,973; June 2.
Gauge: *See*—
Tension gauge.
Gears, Method of and apparatus for cutting. L. O. Carlsen. 2,284,636; June 2.
Generator: *See*—
Impulse generator. Tachometer generator.
Glass working machine. W. B. Wines. 2,285,181; June 2.
Glassware lehr. D. G. Merrill. 2,284,832; June 2.
Glove, Baseball. E. Nolte and H. B. Latina. 2,284,920; June 2.
Glue, Method and apparatus for drying. J. S. Ryan. 2,284,848; June 2.
Goniometer. K. G. Holsten. 2,285,091–2; June 2.
Governor compensator. H. D. Green. 2,284,890; June 2.
Grave protector. E. C. Simmons. 2,284,993; June 2.
Grinding and classifying device. C. H. Kidwell. 2,284,746; June 2.
Grinding machine. J. C. Burns. 2,284,722; June 2.
Growth control and carrier. G. S. Avery, Jr. 2,284,970; June 2.
Gum base and preparing same, Chewing. F. T. De Angelis. 2,284,804; June 2.
Gun stand for electric target devices. M. W. Kenney and H. G. Jensen. 2,285,035; June 2.
Hammer, Body and fender. F. H. Borm. 2,285,005; June 2.
Handle. E. S. Boose. 2,284,798; June 2.
Handle for cooking utensil lids. A. G. Korenek. 2,284,748; June 2.
Handles and component parts thereof, Method and apparatus for making knife. F. A. Mirando and H. Vossler. 2,284,833; June 2.
Harvester, Corn. H. J. Kuhlman. 2,284,909; June 2.
Hat block. J. Auer. 2,285,074; June 2.

Hat manufacture. T. J. Wall. 2,284,854; June 2.
Heat exchange apparatus. R. K. Miller. 2,284,915; June 2.
Heat exchanger. H. M. Rogers. 2,284,769; June 2.
Heat insulating insole. J. J. Clifford. 2,284,947; June 2.
Heater: *See*—
Engine heater.
Heating and conveying mechanism. H. F. Cox, Jr., and H. M. Hill. 2,284,641; June 2.
Heating unit and making same. W. H. Ginder. 2,284,862; June 2.
Heating system. C. I. Murdock. 2,284,674; June 2.
Heating system. H. G. Veeder. 2,284,999; June 2.
Heating system for garments and other objects, Electric. U. Munschak. 2,284,673; June 2.
Heel seat fitting. P. L. Sinclair. 2,284,882; June 2.
Hinge. J. P. Doman. 2,284,951; June 2.
Holder: *See*—
Ashtray and display holder. Pencil holder.
Bottle holder. Record holder.
Card holder. Rupture holder.
Key holder. Work holder.
Holder for beds, Sheet. T. R. Treiber. 2,284,778; June 2.
Hollow articles, Forming. C. G. Staelin. 2,285,370; June 2.
Hopper. W. H. Ward. 2,284,781; June 2.
Horn mounting. P. C. Reck. 2,285,304; June 2.
Hydraulic brake. M. L. Masteller. 2,284,669; June 2.
Hydraulic braking system. G. R. G. Gates. 2,284,974; June 2.
Hydraulic drive. R. Tyler. 2,284,852; June 2.
Hydraulic feed control system. H. F. Vickers. 2,285,069; June 2.
Hydrocarbons, Treatment of. E. M. Marks. 2,285,294; June 2.
Ice-cooling muddler, Method of making. J. D'Arcey. 2,285,149; June 2.
Ice cream or similar substance, Method of and apparatus for making a variegated. G. P. Gundlach and B. Morris. 2,284,651; June 2.
Ice cube release grid. E. W. Haugh. 2,284,820; June 2.
Ignition apparatus. J. Bohli. 2,285,107; June 2.
Impeller for blowers. J. Fullemann. 2,285,266; June 2.
Impulse generator, Electric. R. Helmert. 2,285,088; June 2.
Indicator: *See*—
Fuel indicator. Vehicle direction indicator.
Permanent hair wave indicator.
Photographer's exposure indicator.
Indicator means, Direction. A. E. Wilshusen. 2,284,936; June 2.
Inductance device. A. L. Rosenberg, Jr. 2,285,128; June 2.
Ink, Method of drying. D. J. Bernardi. 2,285,183; June 2.
Ink supply for presses, Variable fountain. O. C. Roesen. 2,285,052; June 2.
Intelligence, Arrangement for the transmission of. A. Wiessner and W. Hagen. 2,284,706; June 2.
Interconnector means. J. F. O'Brien. 2,284,837; June 2.
Internal combustion engines, Cooling system for. I. E. Aske. 2,285,248; June 2.
Internal combustion engine, Supercharged. E. I. B. Marples and H. N. Gorrell. 2,285,344; June 2.
Internal combustion motors, Controlling the charge of. E. Schimanek. 2,284,687; June 2.
Interpolyamide. M. M. Brubaker, W. E. Hanford, and R. H. Wiley. 2,285,009; June 2.
Ironing machine. J. W. Racklyeft. 2,284,767; June 2.
Jack: *See*—
Pump jack. Self-holding jack.
Joint: *See*—
Knuckle joint.
Kettle, Galvanizing. C. J. Schipplock. 2,285,364; June 2.
Key holder. G. C. Lewellen. 2,285,154; June 2.
Keyboard composing machine. M. C. Indahl. 2,285,206; June 2.
Knife operating mechanism for glass blowing machines. J. P. Benoit. 2,285,325; June 2.
Knuckle joint. F. L. Le Bus. 2,285,213; June 2.
Krypton and xenon, Production of. H. Kahle. 2,284,662; June 2.
Lacing device. S. L. Gookin. 2,284,814; June 2.
Lagging for reels. A. A. Bureau. 2,285,185; June 2.
Lamp: *See*—
Flash lamp.
Light: *See*—
Runway marker light.
Light source, Ultra-violet. G. Sperti. 2,284,775; June 2.
Lighting fixture. J. G. Francis. 2,284,955; June 2.
Lighting fixture. W. Wilson. 2,285,001–2; June 2.
Lightning arrester. N. Fitger. 2,285,198; June 2.
Line position control device for paper forms. C. R. Doty. 2,285,258; June 2.
Litter, Folding. S. G. Thomson. 2,285,238; June 2.
Lock: *See*—
Anti-lockout time lock. Water main lock.
Deck lid lock.
Lock-nut construction. A. W. Miller. 2,285,345; June 2.
Lubricant distributor. R. G. Brownstein. 2,284,799; June 2.
Lubricator: *See*—
Track lubricator.
Machine for the extrusion of plastic masses, such as rubber. B. Hansson. 2,284,865; June 2.
Machine for mixing beverages. L. L. Sewell and J. J. Flynn. 2,284,991; June 2.
Machine tool coupling, Safety. W. Miller. 2,284,982; June 2.
Magnesium theophylline, Preparing. P. A. Kober. 2,284,978; June 2.
Magnetizing apparatus. A. N. Hanson and S. F. Warner. 2,285,274; June 2.
Manhole step. R. H. Barriball. 2,285,004; June 2.
Massage apparatus. E. Bacher, nee Laszlo. 2,285,105; June 2.
Match book. R. Guyer. 2,284,960; June 2.
Match book. T. B. Thompson. 2,285,177; June 2.
Material separator apparatus. T. H. Morgan. 2,285,348; June 2.
Material working apparatus. F. Martindell. 2,285,295; June 2.
Materials and making, Mixtures of. V. R. Kokatnur. 2,285,093; June 2.
Measuring and control apparatus. T. R. Harrison. 2,264,817; June 2.
Measuring apparatus, Impedance. H. S. Jones. 2,285,118; June 2.
Measuring instrument, Electrical. T. D. Barnes. 2,284,893; June 2.
Measuring system, Electrical. W. R. Koch. 2,284,747; June 2.
Measuring thickness of dielectric materials. F. A. Firestone. 2,285,152; June 2.
Mechanical setting mechanism for radio tuning structures. J. H. Teaf. 2,285,102; June 2.
Mechanism for business machines, Ink ribbon reversing. H. Neumann-Lezius. 2,285,350; June 2.
Medium for producing images. M. D. McIntosh. 2,285,122; June 2.
Mensuration instrument. P. H. McCanlies. 2,284,831; June 2.
Metal body, Hard. J. Hinnuber. 2,285,205; June 2.
Metals, Continuously molding. A. Welbiund and F. Benard. 2,284,703; June 2.
Metallurgy of ferrous metals. F. H. Clark and R. F. Dirkes. 2,284,638; June 2.
Meter: *See*—
Parking meter.
Radio frequency watt meter.
Microphoto indexing system. R. Stuart. 2,284,776; June 2.
Mileage reminder of the dial type, Automobile. L. Illmer. 2,284,903; June 2.
Mill for granulating and pulverizing coffee. K. C. Allen. 2,284,789; June 2.
Mining apparatus. C. F. Osgood. 2,284,677; June 2.
Mixing apparatus. R. V. Pierce. 2,284,765; June 2.
Modulation system. J. Steinmetz. 2,284,689; June 2.
Moistening apparatus. R. F. Morrison. 2,284,622; June 2.
Moistening apparatus for duplicating machines. S. Kokay. 2,284,874; June 2.
Mold for forming parts of joints on bell and spigot pipes. J. C. Johnston. 2,284,741; June 2.
Motor: *See*—
Air-cooled motor.
Motor and pump, Combined. A. R. Pezzillo. 2,285,050; June 2.
Motor control system. Electric. E. F. W. Alexanderson. 2,285,182; June 2.
Motor vehicle. E. G. Reid. 2,284,988; June 2.
Motorcycle stand. L. A. Tagliaboschi. 2,285,313; June 2.
Mounting: *See*—
Door mounting. Rod mounting.
Horn mounting. Shockproof mounting.
Mounting means, Confined spring. R. M. Eldal. 2,284,646; June 2.
Mounting piezoelectric elements. S. A. Bokovoy. 2,285,143; June 2.
Mower attachment for tractors. J. A. Roseman. 2,285,306; June 2.
Mower, Lawn. L. T. Roberton. 2,285,230; June 2.
Mowing attachment for trucks. E. H. Johnson and S. Baughman. 2,285,117; June 2.
Muddling or dunking device. W. G. Eaton. 2,285,113; June 2.
Musical instrument. L. A. Maas. 2,284,911; June 2.
Musical instrument, Combination electric. P. Weathers and W. L. Rothenberger. 2,285,132; June 2.
Nonmetallic resistance material, Manufacture of. K. Biefeld and E. Krebs. 2,284,858; June 2.
Nozzle. C. R. Alden. 2,284,627; June 2.
Nuclear alkylation of amino substituted aromatic ethers. V. Weinmayr. 2,285,243; June 2.
Nut and manufacture thereof, Anchor. D. C. Hungerford. 2,284,824; June 2.
Nut, Lock. J. M. Berge. 2,285,080; June 2.
Nut shelling device, Cashew. C. T. Nemir. 2,284,879; June 2.
Nutcracker. W. E. Pricer. 2,285,355; June 2.

Oil distillation, Shale. C. E. Hemminger. 2,285,276; June 2.
Oil separator and method of use. H. A. Phillips. 2,285,123; June 2.
Oil wells, Cementing. G. D. Patterson. 2,285,302; June 2.
Oven, Normalizing and tempering. H. Case. 2,285,250; June 2.
Package. W. T. Martin. 2,284,668; June 2.
Package. H. M. Ramel and O. M. Storey. 2,284,987; June 2.
Package-binding apparatus. A. Marchev. 2,285,120; June 2.
Package, Minature. K. R. Grimm. 2,284,815; June 2.
Package sealing machine. M. H. Corley and J. A. Heckman. 2,285,253; June 2.
Packages provided with tearing strips, Making. E. F. Cornock. 2,285,189; June 2.
Packaging machine. H. Hohl, O. Bjering, and C. P. Whittier. 2,285,279; June 2.
Packing pad. J. E. Keiffer. 2,284,663; June 2.
Pad: *See*—
Desk pad. Packing pad.
Pan for domestic refrigerators, Crisper. T. W. Rundell. 2,285,363; June 2.
Paper dispenser. H. T. Vanhooser. 2,284,780; June 2.
Paper sheet testing device. K. R. Stauss. 2,285,371; June 2.
Parking meter. H. S. Johns. 2,284,977; June 2.
Parking meter. W. Ruska. 2,285,056; June 2.
Parking system, Elevated. A. J. Sheehan. 2,285,232; June 2.
Pencil holder, Swinging. C. C. Wallace. 2,285,000; June 2.
Penetrator. F. F. Gilmore. 2,285,200; June 2.
Permanent hair wave indicator. F. H. Gulliksen. 2,284,863; June 2.
Pest control. E. W. Bousquet and H. G. Guy. 2,285,184; June 2.
Petroleum refining. W. A. Craig and P. C. Rich. 2,285,190; June 2.
Phonograph. L. D. Norton and J. E. Renholdt. 2,284,836; June 2.
Phonograph, Electric. L. P. Petruschell. 2,284,678; June 2.
Photographer's exposure indicator. R. Weaver. 2,284,783; June 2.
Photographic filter and like mount. R. J. Raymond. 2,284,847; June 2.
Phthalocyanine sulfonic acids. G. Rosch, O. Bayer, and H. Hoyer. 2,285,359; June 2.
Pickling agent for copper-beryllium alloys. H. C. Kawecki and W. E. Martin. 2,284,743; June 2.
Pick-up mechanism. F. Sund. 2,284,777; June 2.
Piezoelectric crystal apparatus. W. P. Mason. 2,284,753; June 2.
Piezoelectric crystal apparatus. J. M. Wolfskill. 2,284,968; June 2.
Pigments, Manufacturing chrome yellow. D. M. Gans and C. Grove. 2,285,115; June 2.
Pigments, Preparation of phthalocyanine. S. R. Detrick and R. T. Diver. 2,284,685; June 2.
Pigments, Production of improved titanium. G. R. Seidel. 2,284,772; June 2.
Pilot, Safety. G. C. Bergtholdt, Jr. 2,285,326; June 2.
Pinking implement. W. E. Barentzen. 2,285,249; June 2.
Pipe cutting machine. J. L. Anderson. 2,284,711; June 2.
Pipe fitting. E. J. Wood. 2,284,937; June 2.
Pipe opening and flaring tool. G. C. French. 2,285,025; June 2.
Pipe, Smoker's. A. R. Russell. 2,285,057; June 2.
Pipes, Method of and apparatus for cleaning. L. W. Grayson. 2,285,157; June 2.
Plaster products, Making fiber. E. P. Schoch and W. A. Cunningham. 2,285,098; June 2.
Plate feed and separator for tinning machines. C. W. Phillips. 2,284,841; June 2.
Plating, Nickel. E. M. Baker. 2,284,629; June 2.
Plumbing construction. J. W. McGarry. 2,284,754; June 2.
Plumbing, Vacuum. V. K. Zworykin and J. E. Ruedy. 2,284,710; June 2.
Pneumatic valve. L. C. Broecker. 2,284,971; June 2.
Polisher, Abrasive wire. L. Illmer and V. R. Pallas. 2,284,904; June 2.
Polyamides combined with cellulose derivatives. K. Thinius. 2,285,178; June 2.
Polymeric carbamates and their preparation. W. E. Catlin. 2,284,637; June 2.
Polymeric products and modifying polymeric products, Making. W. E. Hanford and D. F. Holmes. 2,284,896; June 2.
Polysegmental packing ring. H. T. Wheeler. 2,285,319; June 2.
Potato washer roller. T. J. Lockwood. 2,285,340; June 2.
Power transmission. F. T. Harrington. 2,284,897; June 2.
Power transmission for bulldozers. C. E. Rohn. 2,285,094; June 2.
Press mechanism for forming screw-threaded plastic articles. A. B. McGinnis. 2,285,297; June 2.
Printing of subtractive multicolor images, Process and apparatus for the. E. Fess and W. Schneider. 2,285,262; June 2.
Printing plates. W. F. Grupe. 2,285,116; June 2.
Printing plate, Flexible. J. Schmutz. 2,285,060; June 2.
Printing telegraph apparatus. B. F. Madsen. 2,284,666; June 2.
Propeller for boats and ships. H. G. Fergus. 2,285,023; June 2.
Prospecting, Method and apparatus for electrical. M. Schlumberger. 2,284,990; June 2.
Protective system. C. I. Hall. 2,285,202; June 2.
Protective system for series capacitors. R. E. Marbury. 2,284,876; June 2.
Protector: *See*—
Chimney wind protector. Grave protector.
Protector for garment supporters, Shoulder. L. G. Smith. 2,285,368; June 2.
Puller: *See*—
Delinting waste puller.
Pump: *See*—
Centrifugal pump. Reciprocating pump.
Fuel pump. Rotary pump.
Motor and pump. Well pump.
Pump, differential type, Pneumatic piston. A. Boynton. 2,284,634; June 2.
Pump for oil wells, Pressure. L. Davis. 2,285,256; June 2.
Pump jack, Electrically operated. W. B. Thiemann. 2,284,932; June 2.
Pump or compressor, Air. C. H. Duffy. 2,284,645; June 2.
Rack: *See*—
Garment rack.
Rack for neckwear. H. S. Lazarus. 2,284,979; June 2.
Radiant energy distance determining system. E. G. Gage. 2,284,812; June 2.
Radio apparatus, Push button for. W. Dohsmann and A. Leyn. 2,285,374; June 2.
Radio beacon system, Navigation aiding. R. J. Kemp. 2,284,873; June 2.
Radio frequency amplifier. W. Kummerer. 2,285,164; June 2.
Radio frequency watt meter. N. I. Korman. 2,285,211; June 2.
Radio garment, Two-way. B. E. Cover, Sr. 2,285,083; June 2.
Radio receiver, Press button tuned. W. Patzschke and E. Konig. 2,285,378; June 2.
Rail fastening. J. T. Doyle. 2,284,643; June 2.
Rail key assembly for stokers, Return. R. Hamilton. 2,284,864; June 2.
Railway car. J. F. Johnson. 2,285,207; June 2.
Railway rolling stock, Passenger. E. J. W. Ragsdale. 2,285,171; June 2.
Razor blade knife. S. W. Frost. 2,285,155; June 2.
Reaction product of water-soluble degraded proteins with phenols and aldehydes. L. E. Dimond and W. L. Hicks. 2,285,193; June 2.
Receiving system. J. Haantjes, A. van Weel, M. J. O. Strutt, and A. van der Ziel. 2,285,030; June 2.
Reciprocating pump. R. J. Rumore. 2,285,303; June 2.
Reciprocating tool, Electric. H. C. Roters and H. C. Pasini. 2,285,361; June 2.
Record holder. L. J. Andres. 2,285,139; June 2.
Recording and exhibiting mechanism. L. M. Potts. 2,284,681; June 2.
Rectifier or converter, Electric. K. H. Schmidt. 2,285,097; June 2.
Refractories, Manufacture of basic. M. Douglas, A. L. Bradley, and J. H. Chesters. 2,285,020; June 2.
Refrigerated display cabinet. L. F. Clerc. 2,285,110; June 2.
Refrigerating apparatus. B. Y. Kinzey. 2,284,907; June 2.
Refrigerating apparatus, Absorption. E. E. Allyne. 2,284,791; June 2.
Refrigeration. P. P. Strandberg. 2,284,691; June 2.
Refrigeration. H. M. Ullstrand. 2,285,131; June 2.
Refrigerator cabinet. G. C. Harbison. 2,285,160; June 2.
Refrigerator shelf. R. S. Ahrens. 2,285,137; June 2.
Register, bookkeeping, and calculating machine, Cash. K. M. Vigborg. 2,284,884; June 2.
Register and the like, Cash. K. M. Vigborg and K. F. Bratt. 2,284,886; June 2.
Relay, Balanced. H. E. Hartig. 2,284,891; June 2.
Remote control system. W. Preussler. 2,284,683; June 2.
Resaturation cooler. F. R. Higley. 2,285,089; June 2.
Resinous derivatives from cellulose and other substances and alcohols. E. Farber. 2,284,860; June 2.
Resistance load, Portable. W. J. Larson. 2,285,339; June 2.
Respirator. H. S. Cover. 2,284,949; June 2.
Respirator, Mechanical. F. R. Mautz and O. J. Smith. 2,284,964; June 2.
Retaining device. E. C. and W. M. Hall. 2,285,273; June 2.
Retort cleanout machine. T. P. Morrison. 2,285,298; June 2.
Rewind mechanism. C. M. Weber. 2,285,070; June 2.
Ring: *See*—
Poly-segmental packing ring.
Ring for packages and making the same. C. G. Hensley. 2,284,735; June 2.

Rod mounting. A. L. Bergsma. 2,284,941; June 2.
Roll for slashing machines and other textile machines, Ribbed. E. H. Hansen. 2,285,375; June 2.
Roller bearing, Enclosed self-locking cageless. O. L. Dirrig. 2,284,950; June 2.
Rosin-containing soaps. I. W. Humphrey. 2,285,333; June 2.
Rosin size emulsion. E. A. Georgi and A. L. Osterhof. 2,285,028; June 2.
Rotary engine. A. J. Olson. 2,284,763; June 2.
Rotary operator and retainer ring assembly. F. H. Mueller. 2,285,223; June 2.
Rotary pump. C. A. Combs. 2,284,948; June 2.
Rotary switch. J. R. Harrington and B. H. Smith. 2,284,816; June 2.
Rotator, Antenna. B. J. Merkle. 2,284,672; June 2.
Rubber composition, Age resisting. J. R. Ingram. 2,285,032; June 2.
Rubber hose, Arrangement for the manufacture of. B. Hansson. 2,284,866; June 2.
Rubber, Preservation of. F. B. Downing, A. M. Neal, and C. J. Pedersen. 2,285,259–60; June 2.
Runway marker light. T. E. McDowell. 2,284,878; June 2.
Rupture holder. W. M. Nix. 2,285,351; June 2.
Safety apparatus. O. E. Zoder. 2,284,709; June 2.
Salts, Recovery of certain metal. E. Farber. 2,284,861; June 2.
Sample taking apparatus. J. B. Ferguson. 2,285,024; June 2.
Sash and frame construction. J. C. Murphy and H. B. Coldren. 2,284,759; June 2.
Saw, Haystack. J. P. Nielson. 2,284,919; June 2.
Saw, Inserted section. C. M. Thompson. 2,285,315; June 2.
Sawing apparatus, Portable. E. D. V. Tompkins. 2,284,693; June 2.
Scissors. L. C. Blair. 2,284,859; June 2.
Screen: *See*—
Vibrating screen.
Screen apparatus. T. H. Morgan. 2,285,347; June 2.
Screen cloth, Securing means for. L. G. Symons. 2,284,883; June 2.
Screw and lock washer assembly washer. W. Stern. 2,284,690; June 2.
Screw and washer assembling machine and method. G. C. Trotter. 2,284,698; June 2.
Seasoning materials. A. Heller. 2,284,822; June 2.
Seat back, Theater. S. J. Gedris. 2,284,957; June 2.
Selector, Program. L. P. Morris. 2,284,916; June 2.
Self-holding jack. E. P. Grime. 2,284,958; June 2.
Shade construction, lamp. S. Sher. 2,285,307; June 2.
Shaft coupling. S. C. Watson. 2,284,934; June 2.
Shaft seal. A. K. Brennan and J. M. Jans. 2,285,007; June 2.
Shaker conveyer trough connecting means. W. W. Sloane. 2,284,925; June 2.
Shaking device. G. H. Meinzer. 2,284,671; June 2.
Shaver, Dry. W. H. Camfield. 2,285,015; June 2.
Shears. K. Kissling. 2,284,664; June 2.
Sheet feed. F. Nigra and M. E. Toby. 2,285,224; June 2.
Sheet feeder. H. T. Backhouse. 2,285,076; June 2.
Sheet-material parts, Making. G. Trautvetter. 2,284,697; June 2.
Sheet, Perforated. M. J. van den Biggelaar. 2,285,317; June 2.
Sheet, Surgical. E. F. Bruning. 2,284,944; June 2.
Sheets for the display of printed surfaces, Assembled. C. R. Sherman. 2,285,379; June 2.
Shingle. J. N. Wickersham. 2,284,705; June 2.
Shockproof mounting. W. A. Schrak. 2,284,771; June 2.
Shoe. B. Jayne. 2,284,620; June 2.
Shoe and making the same. K. Engel. 2,284,810; June 2.
Shoe and shoe bottom parts. H. S. Lyness. 2,284,830; June 2.
Shoe construction. B. D. Da Silva. 2,285,254; June 2.
Shutoff valve. J. T. Corley. 2,285,111; June 2.
Side bearing. D. S. Barrows and C. I. Lusink. 2,285,140; June 2.
Sifter, Electric. K. P. Brace and H. J. Herzog. 2,284,943; June 2.
Sign. B. H. Adler. 2,284,626; June 2.
Signals for automobiles and the like, Directional. J. A. and C. H. Rook. 2,285,054; June 2.
Sleeper, Outdoor. O. D. and G. W. Henderson. 2,284,900; June 2.
Slip. A. A. Horwitch. 2,285,239; June 2.
Snap action device. A. E. Baak. 2,284,940; June 2.
Socket, Electric light. A. Wolf. 2,284,788; June 2.
Socket for pin base lamps and tubes. N. Chirelstein. 2,285,146; June 2.
Socket, Lamp. D. J. Kelman. 2,284,745; June 2.
Socket, Lamp. O. H. Sparling. 2,285,175; June 2.
Sod cutting machine. J. H. Kroeger. 2,284,826; June 2.
Sound recording. E. W. Kellogg. 2,284,744; June 2.
Sound recording, System for. B. Kreuzer and H. I. Reiskind. 2,284,749; June 2.
Sound, System for the recording of. I. G. Goshaw. 2,284,731; June 2.
Spacing mechanism for typewriters, Variable. J. L. Webb. 2,284,702; June 2.
Speed device, Variable. J. R. Nalbach. 2,284,675; June 2.
Speed indicating apparatus. P. N. Smith. 2,284,850; June 2.
Spring tester. G. W. Hiley. 2,285,090; June 2.
Stabilizer for flying boats and amphibians, Lateral. P. R. Dowden and H. Knowler. 2,285,330; June 2.
Stand: *See*—
Motorcycle stand.
Stand for dress forms and the like. J. L. Ray and R. F. Palmer. 2,284,967; June 2.
Staple fiber construction. N. S. Campbell. 2,284,635; June 2.
Steam engine valve. H. Whitmore. 2,285,320; June 2.
Steam generating apparatus. A. Muszynski. 2,285,349; June 2.
Steering mechanism for vehicles. R. Persinske. 2,284,892; June 2.
Stitcher mechanism. N. A. Anderson. 2,284,793; June 2.
Stoker. S. Van Etten. 2,285,236; June 2.
Stoker furnace. C. L. Myers. 2,284,760; June 2.
Strip ends in making tube, Connecting. A. Katz. 2,285,209; June 2.
Structural system. R. B. Hartman. 2,284,898; June 2.
Sulphate, Manufacture of barium. I. E. Weber and W. S. Wood. 2,285,242; June 2.
Sulphonated products, Producing. R. Kapp, L. J. Mosch, and E. T. Woods. 2,285,337; June 2.
Sulphur burner. R. E. Pritz. 2,285,170; June 2.
Support for projectiles. F. H. Denner. 2,284,642; June 2.
Surfacing machine. J. C. Inman. 2,285,377; June 2.
Suture and method and apparatus for packaging the same, Packaged. H. Cleminson. 2,284,725; June 2.
Switch: *See*—
Automobile electric switch. Rotary switch.
Centrifugal switch. Time controlled electric switch.
Electric switch.
Switch. R. T. Mason. 2,285,121; June 2.
Switch for pin tables. J. R. Williams. 2,285,244; June 2.
Switch and signal control system for railroads. C. L. Swanton. 2,285,312; June 2.
Switch construction. H. A. Triplett and S. I. Lindell. 2,285,316; June 2.
Switch jaw. S. H. Kast. 2,284,742; June 2.
Switches, Making mercury. U. C. Hedin. 2,284,899; June 2.
Switching device. C. E. Gary. 2,284,813; June 2.
Synchronizing system. R. W. Carlisle. 2,285,016; June 2.
Syringe, Hypodermic. A. E. Smith. 2,284,774; June 2.
System for indicating electrical phase-shift characteristics. B. D. Loughlin. 2,285,038; June 2.
Table: *See*—
Carriage top table. Folding table.
Delivery table.
Tachometer generator. R. S. Bowser. 2,285,006; June 2.
Tag and seal, Combination. M. Rubinoff. 2,284,922; June 2.
Tape cutter. W. T. Donahoo and O. A. Phillips. 2,284,807; June 2.
Teeing device for golf balls. A. C. MacLellan. 2,285,342; June 2.
Telegraph system, Printing. C. J. Fitch. 2,285,265; June 2.
Telegraph system, Synchronous simplex. L. M. Potts. 2,284,680; June 2.
Telegraph transmitter, Automatic. L. E. Gardiner. 2,285,268; June 2.
Telephone dial manipulating device. H. B. Kirkman. 2,285,286; June 2.
Telephone substation apparatus. W. H. Edwards. 2,285,022; June 2.
Telephone system. W. H. T. Holden and B. F. Lewis. 2,284,870; June 2.
Telephone system. R. W. Jones. 2,285,282; June 2.
Television receiver. M. Messner. 2,285,043; June 2.
Television system. A. V. Bedford. 2,284,714; June 2.
Temperature controlled apparatus. P. B. Parks. 2,284,764; June 2.
Tension gauge. E. L. Malhiot. 2,285,166; June 2.
Terminal for bushing insulators. W. A. Smith. 2,284,926; June 2.
Terpene derivatives, Making. D. H. Sheffield. 2,285,366; June 2.
Textiles to impart water-repellence, Treatment of. W. E. Handord and D. F. Holmes. 2,284,895; June 2.
Textile machine. W. J. Elvin, R. D. Reel, and E. R. Stahl. 2,284,730; June 2.
Thread rolling die. R. T. Hosking. 2,284,659; June 2.
Tile and method of sealing. J. M. Murdock. 2,285,046; June 2.
Time controlled electric switch. W. G. Harton. 2,284,819; June 2.
Titanium compound, Production of. D. W. Young. 2,285,104; June 2.
Toaster, Automatic electric. H. M. Biebel. 2,285,141; June 2.
Toaster, Automatic electric. F. W. Scharf. 2,285,231; June 2.
Toaster, Electric. J. R. Gomersall. 2,285,156; June 2.
Toaster, Gas heated. J. V. Rerucha. 2,285,127; June 2.
Tobacco-pipe reamer. P. A. Shoudy. 2,284,924; June 2.

Tool: *See*—
Cutting tool. Reciprocating tool.
Forming tool.
Pipe opening and flaring tool.
Tooth, Artificial. F. Tryfus. 2,285,179; June 2.
Torpedo tube. H. Scott-Paine. 2,284,881; June 2.
Toys and other articles, Making jointed. C. C. Church. 2,284,724; June 2.
Track lubricator. M. C. Bolt. 2,285,082; June 2.
Tractor. D. B. Baker, C. R. Rogers, and W. O. Bechman. 2,284,713; June 1.
Traffic control system. J. L. Peterson. 2,285,168; June 1.
Traffic, Controlling vehicular. L. L. Bosch. 2,284,633; June 2.
Transmission. L. A. Bixby and L. Lapsley. 2,285,106; June 2.
Transmission. C. L. Bixby. 2,285,142; June 2.
Trap: *See*—
Animal trap.
Trimming dispensing device. A. J. Gelow. 2,285,270; June 2.
Trimming machine. E. J. Ray. 2,284,846; June 2.
Truck, Industrial. C. E. Cochran. 2,285,251; June 2.
Truck. Material transport. J. F. Joy. 2,284,661; June 2.
Truck, Model railway. G. Varney. 2,284,998; June 2.
Truck, Railway. J. C. Travilla, Jr., and E. C. Jackson. 2,284,695; June 2.
Truck structure, Railway. J. C. Travilla, Jr., and E. C. Jackson. 2,284,696; June 2.
Truss M. Portnow. 2,284,986; June 2.
Tube: *See*—
Electric discharge tube. Torpedo tube.
Tube section and producing the same, Bent. D. S. Harder. 2,285,275; June 2.
Tufting attachment. J. R. Earp. 2,285,021; June 2.
Tuning mechanism. Band-spread. F. H. Gusdorf. 2,285,029; June 2.
Turbine control system, Automatic. T. E. Johntz and C. W. Place. 2,285,208; June 2.
2-chloroally compounds, Preparation of. G. H. Coleman and R. W. Sapp. 2,285,329; June 2.
Typewriting machine. G. F. Handley. 2,285,086–7; June 2.
Typewriting machine, Silent. A. Colombo. 2,285,018; June 2.
Typing apparatus. R. H. Turner. 2,284,933; June 2.
Ultra high frequency receiving device. F. Ludi. 2,284,829; June 2.
Unitary structural system. R. L. Speed. 2,284,927; June 2.
Unloading mechanism for trucks. R. E. Wall. 2,284,853; June 2.
Unloader for compressors or the like. B. W. Mantle. 2,284,980; June 2.
Utensil, Kitchen. J. A. Murdock. 2,285,381; June 2.
Utensil support for gas ranges. J. F. Hennessy. 2,285,278; June 2.
Valve: *See*—
Automatic valve. Shut-off valve.
Floor furnace valve. Steam engine valve.
Pneumatic valve.
Valve. F. H. Mueller. 2,285,221–2; June 2.
Valve. J. P. Reid. 2,285,305; June 2.
Valve. E. W. Marchand, Jr., E. A. Frederickson, and R. H. Zinkil. 2,285,343; June 2.
Valve gas lift, Displacement. M. P. Burke. 2,285,109; June 2.
Valve operator, Check. A. E. Bennett. 2,285,324; June 2.
Valve stem. A. E. Bronson. 2,285,008; June 2.
Vending device, Automatic. A. Myers. 2,285,218; June 2.
Vending machine. W. M. Stewart. 2,284,931; June 2.
Vending machine. W. E. Titus. 2,285,068; June 2.
Valve operating means. G. E. Bullock. 2,285,010; June 2.
Vaporizer. W. Samans. 2,284,623; June 2.
Vehicle: *See*—
Motor vehicle.
Vehicle direction indicator. E. C. Horton. 2,284,963; June 2.
Vehicle springing system. E. H. Piron. 2,284,985; June 2.
Vehicle suspension. G. L. Larison. 2,284,665; June 2.
Vending machine, Drink. R. A. Nicholson. 2,284,880; June 2.
Venetian blind. C. Judels and D. L. J. Smith. 2,285,033; June 2.
Ventilating device. L. J. Jenn. 2,285,161; June 2.
Verifier, Phonetic. L. G. Townsend. 2,284,694; June 2.
Vibrating screen. H. L. Strube. 2,284,692; June 2.
Vibrations in reciprocating engines, Damping. R. Zdanowich. 2,285,072; June 2.
View finder with auxiliary lens turret, Parallax-free. A. W. Morton. 2,284,757; June 2.
Visor. F. J. Westrope. 2,284,784; June 2.
Voting machine. R. F. Shoup. 2,285,367; June 2.
Wallboards, Drying porous. G. V. Öholm. 2,284,838; June 2.
Washer: *See* —
Screw and lock washer assembly washer.
Washers with screw threaded fasteners, Method and machine for assembling. M. H. Nielsen. 2,284,676; June 2.
Water closet flushing apparatus. D. Zimmerman. 2,285,073; June 2.
Water main lock. R. Specht. 2,285,099; June 2.
Water softening and clarification. F. K. Lindsay and J. W. Ryznar. 2,284,827; June 2.
Water treating apparatus. A. J. Chesson. 2,284,618; June 2.
Wave length modulation system. R. M. Morris. 2,285,044; June 2.
Waving device, Pinless hair. L. V. Bregou. 2,285,144; June 2.
Wax, Refining montan. K. Stickdorn. 2,285,100; June 2.
Welding apparatus, Electric. W. T. Foreman. 2,284,648; June 2.
Welding machine, Electric. J. B. Tiedemann. 2,284,851; June 2.
Well pump. H. C. Plye. 2,285,169; June 2.
Well pumping mechanism. Deep. R. T. Knapp. 2,284,908; June 2.
Wells, Completing. J. H. Adkison. 2,284,969; June 2.
Wells, Gravel packing of. D. H. Larsen. 2,285,291; June 2.
Wells, Purging. A. S. Parks. 2,285,049; June 2.
Wheel adjustment means, Idler. J. G. Heaslet. 2,284,821; June 2.
Wheel center, Locomotive driving. T. H. Ainsworth. 2,285,138; June 2.
Wheel and truing mechanism feed, Grinding. R. E. Flanders. 2,284,954; June 2.
Wheeled track replacement units for tractors. G. S. Allin. 2,284,790; June 2.
Winding machine. V. H. Hurt. 2,285,334; June 2.
Window construction, Double. R. T. Axe. 2,285,003; June 2.
Windowed apertures, Forming. E. T. Jaeger, R. Loeffler, Jr., and L. Bischoff. 2,284,872; June 2.
Windshield cleaner. A. Rappl and D. N. Mussen. 2,284,966; June 2.
Windshield cleaner, Parking. A. Rappl. 2,284,844; June 2.
Wiper, Blade. E. O. Horton and A. Rappl. 2,284,976; June 2.
Wire reeling machine. M. Coulter. 2,284,726; June 2.
Wire stripper. R. J. Montgomery. 2,285,167; June 2.
Wire or strips, Making. H. G. Specht. 2,285,308; June 2.
Work holder. J. Czajka. 2,285,148; June 2.
Work support and hold-down mechanism. G. Carson. 2,284,972; June 2.
Wrench. H. M. Huss. 2,284,871; June 2.

CLASSIFICATION OF PATENTS

ISSUED JUNE 2, 1942

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

1— 1: 2,285,380
11: 2,284,793
49: 2,285,354
2— 19: 2,284,920
73: 2,285,239
79: 2,284,953
194: 2,284,854
213: 2,284,723
336: 2,285,368
4— 26: 2,285,073
5— 82: 2,285,238
122: 2,284,900
320: 2,284,778
8— 120: 2,284,895
10— 2: 2,284,676
86: 2,284,824
135: 2,284,982
12— 83.5: 2,284,846
142: 2,284,810
2,284,882
15—104.055: 2,284,805
104.10: 2,285,298
104.30: 2,284,939
250: 2,284,823
2,284,976
250.4: 2,284,966
255: 2,284,844
16— 118: 2,284,748
164: 2,284,951
18— 5: 2,285,150
8: 2,285,245
12: 2,284,865
16: 2,285,297
19: 2,284,833
48: 2,285,098
57: 2,285,147
58: 2,285,370
19— 83: 2,284,750
20— 26: 2,285,078
38: 2,285,011
52: 2,284,759
22— 57.2: 2,284,704
77: 2,284,835
126: 2,284,729
195: 2,284,929
200.1: 2,284,703
203: 2,285,014
23— 57: 2,285,115
87: 2,284,861
122: 2,285,242
184: 2,285,299
202: 2,285,104
209: 2,284,662
255: 2,285,280
278: 2,285,170
302: 2,285,300
24— 10: 2,285,000
81: 2,284,806
104: 2,285,309
145: 2,284,814
25— 128: 2,284,741
27— 17: 2,284,921
30: 2,284,963
28— 28: Re.22,104
2,285,375
29— 84: 2,284,690
2,284,698
2,285,187
88.2: 2,284,761
148: 2,285,308
149.5: 2,284,670
155.5: 2,284,899
155.53: 2,285,233
188: 2,285,209
30— 2: 2,285,188
43: 2,285,015
162: 2,285,155
165: 2,285,013
230: 2,284,664
30— 248: 2,284,859
265: 2,285,249
31— 34: 2,285,124
42: 2,285,180
32— 10: 2,285,179
33— 46: 2,285,281
34— 10: 2,285,261
18: 2,284,838
66: 2,285,336
114: 2,285,290
35— 17: 2,284,888
53: 2,285,379
36— 14: 2,284,620
30: 2,284,930
36: 2,285,254
44: 2,284,947
76: 2,284,830
37— 43: 2,285,162
141: 2,285,039
38— 59: 2,284,767
40— 2: 2,285,212
21: 2,284,922
70: 2,284,903
130: 2,284,626
156: 2,285,365
41— 24: 2,285,335
41: 2,285,122
43— 61: 2,284,867
45— 91: 2,285,159
50: 2,284,905
46— 221: 2,284,998
47— 58: 2,284,970
61: Pl.Pt.525
Pl.Pt.526
49— 7: 2,285,181
14: 2,284,796
2,285,325
47: 2,284,832
54: 2,284,797
2: 2,284,954
8: 2,285,157
112: 2,285,318
150: 2,284,904
151: 2,285,377
185: 2,284,715
2,284,738
297: 2,284,716
2,284,739
309: 2,285,205
53— 3: 2,285,114
5: 2,285,271
56— 7: 2,285,306
18: 2,284,909
25: 2,285,117
26: 2,285,230
364: 2,284,777
57— 1: 2,284,635
60— 52: 2,285,009
53: 2,284,852
54.5: 2,284,974
54.6: 2,284,669
2,284,935
2,285,382
62— 4: 2,284,918
6: 2,285,042
103: 2,285,160
104: 2,284,875
108.5: 2,284,820
114: 2,284,907
115: 2,285,123
118: 2,284,791
119.5: 2,284,691
125: 2,285,131
149: 2,285,096
172: 2,285,149
63— 1: 2,285,051
64— 4: 2,284,885
66— 110: 2,285,240
163: 2,285,237
66— 176: 2,285,217
177: 2,285,012
67— 31: 2,285,125
72— 39: 2,285,026
46: 2,285,084
66: 2,285,165
70: 2,284,923
73— 51: 2,284,818
2,285,151
2,285,255
2,285,371
342: 2,285,118
74— 10: 2,284,683
2,285,102
2,285,247
44: 2,284,932
133: 2,284,887
189.5: 2,284,934
257: 2,285,145
469: 2,284,795
548: 2,285,223
604: 2,285,072
75— 22: 2,284,638
77— 3: 2,284,758
63: 2,285,148
76: 2,284,768
80— 9: 2,284,659
81— 9.51: 2,285,167
15: 2,285,099
57: 2,284,871
83— 18: 2,284,789
46: 2,284,746
93: 2,285,236
84— 1.27: 2,285,132
415: 2,285,269
478: 2,284,868
85— 5: 2,284,834
32: 2,285,273
88— 1.5: 2,284,757
2.4: 2,284,831
18.7: 2,285,070
24: 2,284,681
2,284,776
41: 2,284,630
113: 2,284,847
89— 1: 2,284,640
90— 5: 2,284,636
2,285,133
21: 2,284,642
59: 2,284,972
91— 13: 2,285,041
14: 2,284,780
18: 2,285,017
48: 2,284,874
50: 2,284,622
51: 2,284,641
53: 2,284,946
93— 2: 2,285,189
2,285,253
49: 2,284,792
82: 2,285,263
95— 2: 2,285,262
7: 2,284,877
96— 26: 2,284,728
97— 226: 2,284,826
98— 6: 2,284,721
29: 2,285,161
2,285,346
41: 2,284,912
71: 2,284,734
99— 90: 2,285,065
135: 2,284,804
140: 2,284,822
204: 2,284,913
100— 31: 2,285,120
49: 2,285,113
101— 44: 2,284,628
132: 2,284,675
2,285,135
101— 350: 2,285,052
378: 2,285,116
379: 2,285,060
416: 2,285,183
103— 38: 2,284,897
46: 2,285,256
54: 2,284,809
87: 2,285,050
89: 2,284,948
90: 2,284,632
152: 2,285,163
175: 2,285,303
203: 2,285,169
232: 2,285,109
234: 2,284,634
245: 2,284,908
105— 190: 2,284,695
197: 2,284,696
224.1: 2,284,985
329: 2,285,171
366: 2,285,207
106— 36: 2,284,785
58: 2,285,020
152: 2,284,800
154: 2,284,700
238: 2,285,028
300: 2,284,772
107— 54: 2,284,651
108— 7: 2,284,705
110— 22: 2,284,708
40: 2,284,864
147: 2,284,652
112— 79: 2,285,021
113— 38: Re.22,106
51: 2,284,773
116: 2,284,697
238: 2,284,881
114— 238: 2,284,881
115— 39: 2,285,023
116— 124: 2,285,285
124.1: 2,285,374
117— 2: 2,285,362
155: 2,285,095
121— 59: 2,284,763
146: 2,285,320
122— 4: 2,284,760
234: 2,285,349
123— 2: 2,284,732
103: 2,284,687
119: 2,285,344
136: 2,284,709
148: 2,285,107
124— 23: 2,285,031
126— 41: 2,285,127
99: 2,285,108
214: 2,285,278
128— 33: Re.22,105
56: 2,285,105
101: 2,284,986
107: 2,285,351
148: 2,284,949
191: 2,284,964
204: 2,284,984
218: 2,284,774
335.5: 2,284,725
129— 1: 2,285,234
2,285,317
16.1: 2,284,808
131— 133: 2,285,331
194: 2,285,057
240: 2,285,360
246: 2,284,924
132— 33: 2,284,688
38: 2,285,144
135— 3: 2,284,686
137— 111: 2,284,736
139: 2,284,961
2,285,323
139— 403: 2,285,332
143— 68: 2,284,693
139: 2,285,315
146— 10: 2,284,879
16: 2,285,355
51: 2,284,647
70: 2,284,919
171: 2,285,381
187: 2,284,722
190: 2,284,340
152: 2,285,163
148— 8: 2,284,743
26: 2,284,619
150— 40: 2,285,154
151— 19: 2,285,080
152— 430: 2,285,008
153— 2: 2,285,275
48: 2,285,005
79: 2,285,025
154— 2: 2,284,727
6: 2,284,866
29: 2,284,762
40: 2,284,724
2,285,053
46: 2,284,944
55: 2,284,663
155— 116: 2,285,112
123: 2,284,811
184: 2,284,957
156— 17: 2,285,033
158— 4: 2,284,906
46.5: 2,284,997
115: 2,284,995
117.1: 2,285,326
159— 8: 2,284,848
161— 1: 2,284,916
15: 2,285,328
164— 84.5: 2,284,807
2,285,228
89: 2,284,872
110: 2,285,295
112: 2,285,206
113: 2,285,289
118: 2,284,956
166— 2: 2,285,049
14: 2,284,869
2,284,983
22: 2,284,969
26: 2,285,291
2,285,302
167— 30: 2,285,184
171— 34: 2,284,893
95: 2,284,747
2,285,211
97: 2,285,192
2,285,203
119: 2,284,649
2,285,172
2,285,173
223: 2,285,195
242: 2,285,128
2,285,378
252: 2,284,656
2,284,657
2,285,199
321: 2,285,201
327: 2,284,753
2,284,968
2,285,143
172— 126: 2,285,361
179: 2,284,843
239: 2,284,802
2,284,817
245: 2,285,038
274: 2,285,182
284: 2,285,246
173— 328: 2,284,945
2,285,146
2,285,175
173—334.1: 2,284,837
358: 2,284,745
174— 167: 2,284,926
175— 21: 2,285,274
30: 2,285,198
182: 2,284,990
183: 2,285,006
2,285,152
294: 2,284,876
2,285,191
2,285,202
315: 2,285,136
339: 2,284,755
363: 2,284,794
365: 2,285,097
176— 1: 2,284,775
12: 2,285,322
177— 7: 2,284,911
2,285,304
311.5: 2,284,633
2,284,850
337: 2,284,963
2,285,168
380: 2,285,153
386: 2,284,654
2,284,699
178— 4: 2,284,679
6.8: 2,284,714
23: 2,285,265
44: 2,284,617
2,285,085
53.1: 2,284,680
2,285,264
115: 2,285,268
179— 27: 2,284,870
2,285,282
81: 2,285,022
90: 2,285,286
100.2: 2,285,079
100.3: 2,284,694
2,284,731
2,284,749
100.4: 2,284,678
2,284,744
171: 2,284,855
2,284,894
171.5: 2,284,689
2,285,044
2,285,164
180— 17: 2,284,790
54: 2,285,119
183— 4: 2,284,914
184— 3: 2,285,082
7: 2,284,799
11: 2,285,142
9: 2,285,251
188— 62: 2,285,327
72: 2,285,257
75: 2,285,134
76: 2,285,241
79.5: 2,285,196
2,285,310
189— 26: 2,284,752
34: 2,284,898
2,284,927
64: 2,285,003
192— 3: 2,285,369
8: 2,285,027
48: 2,284,667
2,285,106
125: 2,285,284
194— 9: 2,284,977
15: 2,285,061
19: 2,285,056
79: 2,285,272
195— 16: 2,285,130
196— 8: 2,284,973
41: 2,285,190
52: 2,285,294

196—	116: 2,285,037	206—	29: 2,284,96	223—	68: 2,284,967	240—	78: 2,285,002	252—	194: 2,284,981	271—	36: 2,284,841
	128: 2,284,623		2,285,177		2,285,064		108: 2,285,307		218: 2,285,277		42: 2,285,224
197—	5: 2,285,258		44: 2,284,735		2,285,376	242—	3: 2,285,334		250: 2,285,314		46: 2,285,076
	18: 2,285,018		2,285,103	225—	21: 2,284,880		18: 2,284,730		368: 2,285,333	273—	33: 2,285,342
	53: 2,284,666		52: 2,285,270	226—	2: 2,285,283		55: 2,285,229	254—	1: 2,284,958	274—	21: 2,284,836
	84: 2,284,702		59: 2,285,185		61: 2,285,279		77: 2,285,019		187: 2,285,094		42: 2,285,139
	2,284,933		72: 2,285,341		80: 2,284,740		78: 2,285,358	255—	1.4: 2,285,024	275—	2: 2,284,992
	114: 2,285,087		79: 2,284,987		82: 2,284,631		92: 2,284,726	257—	3: 2,284,764	277—	42: 2,284,971
	133: 2,285,197	209—	275: 2,284,943		129: 2,284,660	244—	7: 2,284,902		26: 2,285,225	279—	14: 2,285,101
	135: 2,285,066		315: 2,285,349	228—	46: 2,285,004		18: 2,284,717		39: 2,285,075	280—	11.20: 2,285,373
	165: 2,285,350		325: 2,284,671	229—	2.5: 2,285,129		102: 2,285,330		164: 2,284,769		33.55: 2,284,892
198—	20: 2,284,928		326: 2,284,692		3.5: 2,285,220		134: 2,285,071		241: 2,284,915		36: 2,284,801
	22: 2,285,267		403: 2,284,883		5.7: 2,285,219	246—	134: 2,285,312	259—	57: 2,284,991		124: 2,284,665
	34: 2,284,766		2,285,347		7: 2,285,066	248—	33: 2,285,176		178: 2,284,765		303: 2,285,313
	65: 2,285,321	210—	19: 2,284,618		23: 2,284,682		194: 2,284,770	260—	2: 2,284,637	281—	44: 2,285,235
	220: 2,284,718		23: 2,284,827		2,284,942		337: 2,284,955		2,284,896	285—	96.9: 2,285,213
	2,284,925		2,284,889		2,284,959		358: 2,284,771		7: 2,285,193		115: 2,284,754
200—	5: 2,284,813		56: 2,284,737		27: 2,284,815	250—	9: 2,284,706		9: 2,284,839		2,285,046
	6: 2,285,210		153: 2,285,648		37: 2,285,174		2,285,030		2,284,860		208: 2,284,937
	39: 2,284,819		183: 2,284,787		49: 2,285,356		11: 2,284,812		13: 2,285,178	286—	32: 2,285,007
	52: 2,285,244	211—	1.6: 2,284,672		51: 2,284,668		2,284,873		78: 2,285,009	287—	54: 2,284,624
	2,284,936		43: 2,284,849		2,285,067		2,285,081		84: 2,284,639	288—	7: 2,285,319
	2,285,054		69: 2,285,214		52: 2,284,989		2,285,091		218: 2,284,962	290—	40: 2,285,208
	67: 2,284,644		113: 2,284,979	230—	24: 2,284,980		2,285,092		256: 2,284,978	292—	126: 2,285,301
	80: 2,285,186	214—	16.1: 2,285,232		58: 2,285,215		13: 2,285,083		314: 2,284,685	295—	6: 2,285,138
	83: 2,284,940		82: 2,284,661		117: 2,285,338		20: 2,285,372		2,285,359		11: Re.22,107
	87: 2,284,621		83: 2,284,853		134: 2,285,266		27: 2,284,751		400: 2,285,337	296—	1: 2,284,988
	2,285,352	215—	100: 2,284,625		190: 2,284,645		2,284,829		417: 2,285,100		97: 2,284,784
	100: 2,284,891	219—	4: 2,284,851	235—	27: 2,284,884		2,285,043		575: 2,285,243	299—	107.6: 2,284,627
	105: 2,284,816		8: 2,284,648		2,284,886		27.5: 2,284,655		601: 2,285,059	300—	11: 2,285,158
	2,285,121		19: 2,284,653		55: 2,285,367		2,284,733		611: 2,285,366	302—	49: 2,285,216
	106: 2,285,040		2,285,141		60: 2,284,786		2,285,058		614: 2,285,329	305—	9: 2,284,713
	116: 2,284,756		2,285,156		2,284,803		2,285,062		786: 2,285,077		2,284,821
	2,284,825		2,285,231		2,285,311		33: 2,284,719		802: 2,285,259	308—	6: 2,284,941
	120: 2,285,252		20: 2,284,673		2,285,353		2,284,782		804: 2,285,260		138: 2,285,140
	126: 2,284,845		24: 2,284,863		61.11: 2,285,296		36: 2,285,016		809: 2,285,032		214: 2,284,950
	144: 2,285,316	220—	3.8: 2,285,034		84: 2,284,783		2,285,088	261—	92: 2,285,089	311—	30: 2,284,917
	148: 2,284,658		90: 2,284,901		88: 2,284,701		40: 2,285,029	262—	28: 2,284,677	312—	44: 2,284,779
	2,284,684		94: 2,284,798	236—	1: 2,285,226		49.5: 2,284,710	263—	2: 2,285,288		50: 2,285,055
	2,284,840	221—	16: 2,284,952		10: 2,284,999		175: 2,285,126		9: 2,285,250		87: 2,284,931
	2,284,842		31.5: 2,285,292		15: 2,285,204	251—	48: 2,285,343		11: 2,285,364		88: 2,285,068
	2,284,856		60: 2,285,227		2,285,287		103: 2,285,222		43: 2,285,036		101: 2,284,712
	2,284,857		67: 2,284,720		25: 2,284,910		105: 2,284,994	264—	8: 2,284,980		122: 2,285,047
	166: 2,284,742		73.5: 2,284,650		93: 2,285,305		112: 2,285,221	265—	12: 2,285,200		130: 2,285,218
	2,285,293		102: 2,284,828	237—	2: 2,284,674		113: 2,285,111		14: 2,285,090		134: 2,285,110
201—	64: 2,284,952		142: 2,284,975	238—	364: 2,284,643		125: 2,283,324		18: 2,285,166		146: 2,285,035
	69: 2,285,339		144: 2,284,781	240—	1: 2,285,001		134: 2,285,010		2,285,194		150: 2,285,137
	76: 2,284,858	223—	24: 2,285,074		1.2: 2,284,878		165: 2,284,996		47: 2,284,707		2,285,363
202—	15: 2,285,276		37: 2,285,063		101.63: 2,285,045	252—	1: 2,285,093	266—	23: 2,284,711		
204—	49: 2,284,629		68: 2,284,965		52.1: 2,284,788		8.6: 2,285,357	267—	54: 2,284,646		

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,284,626: 40— 130	2,284,807: 164— 84.5	2,284,969: 166— 22	2,285,060: 101— 379	2,285,169: 103— 203	2,285,291: 166— 26
2,284,664: 30— 230	2,284,809: 103— 54	2,284,978: 260— 256	2,285,062: 250— 27.5	2,285,171: 105— 329	2,285,315: 143— 139
2,284,673: 219— 20	2,284,917: 311— 30	2,284,983: 166— 14	2,285,075: 257— 39	2,285,187: 29— 84	2,285,328: 161— 15
2,284,712: 312— 101	2,284,929: 22— 195	2,284,986: 128— 101	2,285,100: 260— 417	2,285,213: 285— 96.9	2,285,333: 252— 368
2,284,726: 242— 92	2,284,931: 312— 87	2,284,995: 158— 115	2,285,103: 206— 44	2,285,215: 230— 58	
2,284,764: 257— 3	2,284,937: 285— 208	2,285,012: 66— 177	2,285,116: 101— 378	2,285,218: 312— 130	
2,284,787: 210— 183	2,284,938: 123— 174	2,285,029: 250— 40	2,285,142: 184— 11	2,285,233: 29—155.53	
2,284,800: 106— 152	2,284,966: 15—250.4	2,285,058: 250— 27.5	2,285,148: 77— 63	2,285,260: 260— 804	

U. S. GOVERNMENT PRINTING OFFICE: 1942

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Adams Packing Company, Inc., Auburndale, Fla. Fresh citrus fruits and canned citrus fruits, and canned citrus juices. Serial No. 452,064; June 9. Class 46.

Allied Stores Corporation, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash., and as Dey Brothers & Company, Syracuse, N. Y. Sterling silver flatware, sterling silver hollow ware, and silver jewelry. Serial No. 449,658; June 9. Class 28.

Allis-Chalmers Manufacturing Company, Milwaukee and West Allis, Wis. Synthetic electrical insulating liquid. Serial No. 451,129; June 9. Class 21.

American Chain & Cable Company, Inc., Bridgeport, Conn. Wire rope and wire cable. Serial No. 452,736; June 9. Class 7.

American Crayon Company, The, Sandusky, Ohio. Drawing kit. Serial No. 443,549; June 9. Class 11.

American Dietaids Company, Inc., Yonkers, N. Y. Vitamin B complex tablets. Serial No. 452,384; June 9. Class 6.

American Oil Company, Baltimore Md. Gasoline, lubricating oils and greases, and door ease. Serial Nos. 450,984–5; June 9. Class 15.

American Pop Corn Company, Sioux City, Iowa. Raw and popped pop corn not candied. Serial No. 451,357; June 9. Class 46.

American Waterproofing Corporation, Brooklyn, N. Y. Waterproofing and dampproofing materials. Serial No. 441,299; June 9. Class 12.

Atlas Powder Company, Wilmington, Del. Magazine. Serial Nos. 452,119–20; June 9. Class 38.

Austin, Nichols & Co., Inc., Brooklyn, N. Y. Whiskey. Serial No. 451,100; June 9. Class 49.

Avon Products, Inc., New York, N. Y. Perfumes. Serial No. 452,411; June 9. Class 6.

B. B. Chemical Co., Boston, Mass. Leather bleach. Serial No. 452,374; June 9. Class 6.

Beach Products, Inc., Kalamazoo, Mich. Paper napkins and table cloths. Serial No. 442,096; June 9. Class 37.

Bodine-Davis Co., Phoenix, Ariz. Fresh vegetables. Serial No. 452,183; June 9. Class 46.

Bon Marche, The. (See Allied Stores Corporation.)

Bookmark Press, Camden, N. J. Books. Serial No. 450,640; June 9. Class 38.

Brilhart, Arnold, Great Neck, Long Island, N. Y. Mouthpieces for wind musical instruments. Serial Nos. 452,236–7; June 9. Class 36.

Brilhart, Arnold, Great Neck, Long Island, N. Y. Mouthpieces for wind musical instruments. Serial No. 452,239; June 9. Class 36.

Brite Corrugated Box Company, Long Island City, N. Y. Corrugated paper boxes. Serial No. 452,444; June 9. Class 2.

Bry Kay Company, Delavan, Wis. Knitted sportswear and outerwear. Serial No. 449,314; June 9. Class 39.

Callan, Russell, Menard, Texas. Raw wool and mohair. Serial No. 452,553; June 9. Class 1.

Cameo Fabrics, New York, N. Y. Woven textile fabrics in the piece. Serial No. 451,290; June 9. Class 42.

Certain-Teed Products Corporation, New York, N. Y. Sheet material of felt base saturated with a bituminous saturant and used as construction material. Serial No. 451,046; June 9. Class 12.

Chandler, Edward F., Brooklyn, N. Y. Furnaces, heating units and water heaters. Serial No. 451,867; June 9. Class 34.

Charles of the Ritz, Inc., New York, N. Y. Perfume, toilet water, face powder, etc. Serial No. 452,346; June 9. Class 6.

Chrysler Corporation, Highland Park, Mich. Blank quota charts in the nature of billboards. Serial No. 451,260; June 9. Class 50.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Toilet waters. Serial No. 452,123; June 9. Class 6.

Collins & Aikman Corporation, Philadelphia, Pa., and New York, N. Y. Worsted fabrics in the piece and cut lengths. Serial No. 451,225; June 9. Class 42.

Cooper, Herman, doing business as Timecraft Watch Co., New York, N. Y. Watches. Serial No. 451,621; June 9. Class 27.

Cooper's, Incorporated, Kenosha, Wis. Men's and boys' underwear. Serial No. 446,288; June 9. Class 39.

Cotton Board, The, Manchester, England. Textile piece goods. Serial No. 444,440; June 9. Class 42.

Craven, Arthur, & Co. Limited, Lancashire, England. Wash leathers. Serial No. 449,896; June 9. Class 1.

Cross, Mark, Company, New York, N. Y. Hand bags and knitting bags. Serial No. 452,327; June 9. Class 3.

Davison Chemical Corporation, The, Baltimore, Md. Contacting agent for treatment of gases, liquids or solids, and employed particularly as a desiccant or dehumidifier. Serial No. 451,965; June 9. Class 6.

Dey Brothers & Company. (See Allied Stores Corporation.)

Diedel, Carl, New York, N. Y. Cosmetic for the temporary coloration of hair. Serial No. 449,975; June 9. Class 6.

Dill Company, The, Norristown, Pa. Cough syrups. Serial No. 451,359; June 9. Class 6.

Drozd, Joseph H., Kansas City, Mo. Game boards. Serial No. 452,468; June 9. Class 22.

Eastman Kodak Company, Rochester, N. Y. Cellulose acetate for industrial use. Serial No. 416,224; June 9. Class 1.

Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Liquid lens cleaner and polish for ferrotype plates. Serial No. 451,803; June 9. Class 4.

Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Blotting paper, wax paper, and photogravure tissue. Serial No. 451,812; June 9. Class 37.

Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Photographic paper. Serial No. 452,710; June 9. Class 26.

Edwards, Louis, Denver, Colo. Glass cleaner. Serial No. 450,394; June 9. Class 4.

Elkhart Tool & Die Co. (See McDonald, A. W.)

Fisher Scientific Company, Pittsburgh, Pa. Vacuum filtration device for separating solids from liquids in laboratory procedures. Serial No. 451,201; June 9. Class 31.

Foster, Charles H., New York, N. Y. Toilet preparations and cosmetics. Serial No. 451,909; June 9. Class 6.

French Fabrics Corporation, New York, N. Y. Textile fabrics in the piece. Serial No. 449,318; June 9. Class 42.

Garay & Co., Inc., New York, N. Y. Handbags and belt and handbag combinations. Serial No. 447,064; June 9. Class 3.

Garrett, George K. Company, Inc., Philadelphia, Pa. Lock washers. Serial No. 451,438; June 9. Class 13.

Germstroyd Products Limited, London, England. Liquid chemicals for sanitary and disinfectant purposes. Serial No. 452,393; June 9. Class 6.

Globe American Corporation, Macomb, Ill. Transparent flexible material used as a substitute for glass in poultry houses. Serial No. 445,094; June 9. Class 50.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Polishing gauze and cloths, spot remover, glass cleaner, etc. Serial No. 451,440; June 9. Class 4.

Green, Hugh Aitchison, Montreal, Canada. Herrings, smoked haddie, smoked fillets, etc. Serial No. 433,857; June 9. Class 46.

Hall-Neal Furnace Co., Indianapolis, Ind. Furnace units. Serial No. 452,425; June 9. Class 34.

Handy Andy Specialty Co. Inc., New York, N. Y. Household furnishings. Serial No. 448,760; June 9. Class 32.

House of Hollywood, The, Los Angeles, Calif. Bath oil, bath powder, beauty cream, brilliantine. Serial No. 451,841; June 9. Class 6.

Instrument Specialties Company, Inc., Little Falls, N. J. Springs. Serial No. 451,550; June 9. Class 13.

Irvin Aircraft Schools, San Diego, Calif. Student's handbook for aircraft manufacturing. Serial No. 452,166; June 9. Class 38.

Jacks, Baltimore, Md. Racing information or selection cards. Serial No. 448,387; June 9. Class 38.

Jebaily, James, Inc., New York, N. Y. Negligees, housecoats, pajamas, etc. Serial No. 452,354; June 9. Class 39.

Kent-Park, Inc., New York, N. Y. Ladies' suits. Serial No. 452,168; June 9. Class 39.

Kerr Dental Manufacturing Co., Detroit, Mich. Coating material for dental molds. Serial No. 452,615; June 9. Class 44.

Leef-Schniebolk Company, New York, N. Y. Fresh tomatoes. Serial No. 450,050; June 9. Class 46.

Lelong, Lucien, Inc., Chicago, Ill. Cake make-up base and foundation. Serial No. 452,748; June 9. Class 6.

Lupton, William B., doing business as Lupton's Ice Cream Co., Camas, Wash. Ice milk bars and ice cream bars. Serial No. 444,649; June 9. Class 46.

Lupton's Ice Cream Co. (See Lupton, William B.)

M & N Cigar Manufacturers, Inc., Cleveland, Ohio. Cigars. Serial No. 449,184; June 9. Class 17.

Makransky, S., & Sons, Philadelphia, Pa. Suits, coats, vests, etc. Serial No. 448,196; June 9. Class 39.

Mallory, P. R., & Co. Inc., Indianapolis, Ind. Electric condensers. Serial No. 451,912; June 9. Class 21.

Margolis, Esther, doing business as The Monopoly State Review, New York, N. Y. Publication devoted to the liquor industry. Serial No. 451,236; June 9. Class 38.

McDonald, Albert W., doing business as Elkhart Tool & Die Co., Elkhart, Ind. Steps for trailers. Serial No. 451,772; June 9. Class 19.

Men's Hats, Inc., Baltimore, Md. Men's hats. Serial No. 449,187; June 9. Class 39.
Metal Textile Corporation, West Orange, N. J. Fluid straining devices. Serial No. 452,480; June 9. Class 31.
Monopoly State Review, The. (See Margolis, Esther.)
Morse & Skinner, Lodi, Calif. Fresh fruits. Serial No. 450,940; June 9. Class 46.
Myers, Harold C., doing business as E. B. Myers Co., Los Angeles, Calif. Women's and men's clothing. Serial No. 450,879; June 9. Class 39.
National Varnished Products Corporation, The, Woodbridge, N. J. Insulating tape, tubing, and sleeving for electrical use. Serial No. 450,880; June 9. Class 21.
Nichols Engineering & Research Corporation, New York, N. Y. Incinerating furnaces and parts thereof. Serial No. 451,987; June 9. Class 34.
Paramount Line, Inc., The, Providence, R. I. Greeting cards. Serial No. 452,274; June 9. Class 38.
Parfum L'Orle, Inc., New York, N. Y. Toilet waters, perfumes, skin lotions, etc. Serial No. 448,457; June 9. Class 6.
Parfums Schiaparelli, Inc., New York, N. Y. Perfumes, toilet waters, rouge, etc. Serial No. 452,291; June 9. Class 6.
Parker Brothers Inc., Portland, Maine, and Salem, Mass. Board game. Serial No. 452,433; June 9. Class 22.
Pepper, Albert P., New York, N. Y. Chemical products for keeping hosiery and lingerie in good condition and improving the appearance of textiles such as silk, rayon, and nylon. Serial No. 450,244; June 9. Class 6.
Pittsburgh Plate Glass Company, Pittsburgh, Pa. Brushes. Serial No. 451,319–20; June 9. Class 29.
Pransky, Abraham I., doing business as Pransky Sewing Machine Company, Boston, Mass. Belting for sewing machines. Serial No. 451,210; June 9. Class 35.
Press, Florence C., New Haven, Conn. Hosiery, underwear, and outerwear. Serial No. 450,404; June 9. Class 39.
Prince Matchabelli Inc., New York, N. Y. Soap. Serial No. 452,133; June 9. Class 4.
Providence Stock Company, Providence, R. I. Watch bracelets, identification bracelets, wrist watch straps, etc. Serial No. 451,390; June 9. Class 28.
Pure Oil Company, The, Chicago, Ill. Fuel oil and furnace oil. Serial No. 441,633; June 9. Class 15.
Quaker Oats Company, The, Chicago, Ill. Rolled oats. Serial No. 449,499; June 9. Class 46.
Red Spot Paint & Varnish Co., Inc., Evansville, Ind. Ready mixed paint. Serial No. 452,056; June 9. Class 16.
Santa Rosa Estancias Sociedad Anonima, Buenos Aires, Argentina. Cheese. Serial No. 442,141; June 9. Class 46.
Schwartz, Samuel, doing business as Sun Radio Co., New York, N. Y. Electrical intercommunication systems for paging, announcing, and two-way conversational purposes. Serial No. 451,148; June 9. Class 21.
Sears, Roebuck and Co., Chicago, Ill. Drums. Serial No. 446,533; June 9. Class 36.
Sears, Roebuck and Co., Chicago, Ill. Electric refrigerator units. Serial No. 452,408; June 9. Class 31.
Secord, George L., doing business as The George L. Secord Laboratories, Chicago, Ill. Medicine employed as a cough sedative and expectorant. Serial No. 451,756; June 9. Class 6.
Sheffield Steel Corporation, Kansas City, Mo. Metallic guardrails. Serial No. 451,350; June 9. Class 12.
Snider Packing Corporation, Rochester, N. Y. Canned fruits and vegetables, and canned fruit and vegetable products. Serial No. 446,928; June 9. Class 46.
Snider Packing Corporation, Rochester, N. Y. Frozen fruits, frozen vegetables, frozen fish. Serial No. 447,621; June 9. Class 46.
Societe de Construction de Materiel Pour Deton Tralte (Societe A. Responsabilite Limitee), Paris, France. Posts, hollow columns, piles, beams, and flooring, etc. Serial No. 416,392; June 9. Class 12.
Stensel, K., & Sons, Inc., New York, N. Y. Spectacle frames. Serial No. 452,542; June 9. Class 26.
Summerbell Roof Structures, Los Angeles, Calif. Roof trusses and laminated wooden arches. Serial No. 451,514; June 9. Class 12.
Sun Radio Co. (See Schwartz, Samuel.)
Sylvania Industrial Corporation, New York, N. Y. Lubricants comprising an aqueous colloidal solution for use on heated metal surfaces. Serial No. 451,395; June 9. Class 15.
Taylor Milling Corporation, Los Angeles, Calif. Plant food. Serial No. 451,326; June 9. Class 10.
Tebbe, A. J., & Sons Co., Cotulla, Tex. Fresh vegetables. Serial No. 450,320; June 9. Class 46.
Timecraft Watch Co. (See Cooper, Herman.)
Tyler, W. S., Company, The, Cleveland, Ohio. Wire cloth having edging applied thereto. Serial No. 444,811; June 9. Class 13.
USA Esspi Glove Corporation, New York, N. Y. Gloves. Serial No. 445,026; June 9. Class 39.
Union Potash & Chemical Company, Chicago, Ill. Potash used primarily for fertilizer purposes. Serial No. 451,584; June 9. Clas 10.
United States Electric Mfg. Corp., New York, N. Y. Flashlight cases and primary electric batteries. Serial No. 451,617; June 9. Class 21.
Universal Wheel & Abrasive Corp., Chicago, Ill. Abrasive grinding wheels and sharpening stones. Serial No. 451,216; June 9. Class 4.
Walcramatic Company, Los Angeles, Calif. Electric water heaters. Serial No. 452,032; June 9. Class 21.
Walton Trunk Co., Inc., New York, N. Y. Empty cylindrical roving containers. Serial No. 452,488; June 9. Class 2.
Weston Electrical Instrument Corporation, Newark, N. J. Electrical relays and contacts. Serial No. 451,906; June 9. Class 21.
Wile, M., & Company, Inc., Buffalo, N. Y. Men's, youths', and boys' suits, topcoats, overcoats, etc. Serial No. 447,926; June 9. Class 39.

LIST OF REGISTRANTS OF TRADE-MARKS

Adams, Ramon F., doing business as Adams Candy Company, Dallas, Tex. Candy. 395,723; June 9; Serial No. 440,229; published Mar. 31, 1942. Class 46.
Air Reduction Sales Company, New York, N. Y. Periodical publication. 395,732; June 9; Serial No. 447,531; published Mar. 31, 1942. Class 38.
Air Reduction Sales Company, New York, N. Y. High-voltage indicators. 395,749; June 9; Serial No. 449,532; published Mar. 17. 1942. Class 21.
Allman, Walter R., Cleveland, to Theresa H. Allman, Toledo, Ohio, successor. Pictures and cartoons. 158,592; renewed Sept. 12, 1942.
American Automobile Association, Washington, D. C. and New York, N. Y., to American Automobile Association, Inc., Washington, D. C. Maps, pamphlets, and books. 155,189–90; renewed May 23, 1942.
American Crayon Company, The, Sandusky, Ohio. Paint boxes, sets, trays, etc. 395,758; June 9; Serial No. 449,950; published Mar. 31. 1942. Class 16.
American Machine and Metals, Inc. (See Tolhurst Machine Works, assignor.)
American Newspapers, Inc., New York, N. Y. Newspaper. 395,801; June 9. Class 38.
Anchor Packing Company, The, Philadelphia, Pa. Machinery packing composed of asbestos and rubber. 160,368; renewed Oct. 24, 1942.
Anheuser-Busch, Incorporated, assignor to Anheuser-Busch, Inc., St. Louis, Mo. Coffee beverage. 160,127; renewed Oct. 17, 1942.
Arcady Farms Milling Company, Chicago, Ill. Livestock and poultry feed. 395,733; June 9; Serial No. 447,776; published Mar. 31, 1942. Class 46.
Arden, Elizabeth, Sales Corporation, New York, N. Y. Advertising device for lipsticks. 395,740; June 9; Serial No. 449,033; published Mar. 31, 1942. Class 50.
Art Metal Company, The, Cleveland, Ohio. Electric lighting fixtures. 395,722; Serial No. 439,328; published Mar. 24, 1942. Class 21.
Bee & Em Mfg. Co., New York, N. Y. and Philadelphia, Pa. Sport jackets, lumberjackets, windbreakers, etc. 395,803; June 9. Class 39.
Bierhaus, E., & Sons, Vincennes, Ind. Coffee. 395,721; June 9; Serial No. 438,643; published Mar. 31, 1942. Class 46.
Bloomingdale Bros., Inc., New York, N. Y. Uniforms and aprons. 395,792; June 9. Class 39.
Bol, Ltd., New York, N. Y. Cinematographic and photographic apparatus, and accessories thereto. 395,795; June 9. Class 26.
Bridgeport Device Co., Inc., The, Bridgeport, Conn. Traction splints and traction applying attachments. 395,770; June 9; Serial No. 450,301; published Mar. 31, 1942. Class 44.
British-American Tobacco Company, Limited, New York, N. Y., assignor to Brown & Williamson Tobacco Corporation, Louisville, Ky. Tobacco and cigarettes. 155,388; renewed May 30, 1942.
Brown Company, Portland, Maine, to Brown Company, Berlin, N. H. Kraft, wrapping, bond and print paper, paper toweling, crepe paper. 159,291; renewed Sept. 26, 1942.
Brown Company, Berlin, N. H. Paper products. 395,754; June 9; Serial No. 449,849; published Mar. 31, 1942. Class 37.
Brown & Williamson Tobacco Corporation. (See British-American Tobacco Company, assignor.)
Brush Development Company, The, Cleveland, Ohio. Microphones. 395,724; June 9; Serial No. 441,723; published Mar. 24, 1942. Class 21.
Bunting Glider Company, Philadelphia, Pa. Furniture. 395,788; June 9. Class 32.
Capachione Bros. & Co., Brockton, Mass. Celluloid-backed leather toplifts for shoes. 395,772; June 9; Serial No. 450,353; published Mar. 31, 1942. Class 39.

Carhoff Company, Cleveland Heights, Ohio. Preparation for use on glass, lenses, reflectors, etc. 395,735; June 9; Serial No. 448,243; published Mar. 31, 1942. Class 4.
Chicago Glass Products Company, The, assignor to Glasco Products Company, Chicago, Ill. Glass products. 158,637; renewed Sept. 12, 1942.
City Mills Company, Columbus, Ga. Corn meal. 159,313; renewed Sept. 26, 1942.
Clayton Oil Company. (See Hall, Harold C.)
Cleveland Builders Supply and Brick Company, The, by change of name, to The Cleveland Builders Supply struction of sidewalks and the like. 153,137; renewed Company, Cleveland, Ohio. Mixture for use in the con- Mar. 14, 1942.
Cleveland Builders Supply and Brick Company, The, by Company, Cleveland, Ohio. Prepared masonry mixture change of name to The Cleveland Builders Supply of sand, cement, and hydrated lime. 160,415; renewed Oct. 24, 1942.
Cleveland Co-Operative Stove Company, The, Cleveland, Ohio. Gas ranges, gas heaters; combination ranges for coal, wood, and gas; etc. 160,152; renewed Oct. 17, 1942.
Conover, Harry, New York, N. Y. Monthly, illustrated, fashion magazine. 395,755; June 9; Serial No. 449,851; published Mar. 31, 1942. Class 38.
Crescent Belt Fastener Company, assignor to Crescent Belt Fastener Company, Inc., New York, N. Y. Fasteners, plates, clamps, etc. 154,911; renewed May 16, 1942.
Crossley Motors Limited, Manchester, Eng. Motor cars. 159,859; renewed Oct. 10, 1942.
Darling Valve & Manufacturing Company, Williamsport, Pa. Valves and unions and indicator posts, floor stands, etc. 154,914; renewed May 16, 1942.
Day-Brite Lighting, Inc., St. Louis, Mo. Electric lighting fixtures — Namely, fluorescent commercial fixtures. 395,747; June 9; Serial No. 449,477; published Mar. 24, 1942. Class 21.
De La Rue, Thomas, and Company, Limited, London, to Thomas De La Rue and Company, Haywards Heath, England. Insulators and insulating appliances and fittings. 151,461; renewed Feb. 7, 1942.
De La Rue, Thomas, and Company, Limited, London, to Thomas De La Rue and Company Limited, Haywards Heath, England. Bottle stoppers and bottle lids. 157,043; renewed July 25, 1942.
Delta-Star Electric Company, Chicago, Ill. Electrical apparatus. 158,423; renewed Sept. 5, 1942.
Dittmann, L. J., Coffee Co., New Orleans, La. Coffee, and coffee and chicory. 395,797; June 9. Class 46.
Doehler Die-Casting Company, Brooklyn, N. Y. to Doehler Die Casting Company, Toledo, Ohio. Nonferrous metal castings. 159,334–5; renewed Sept. 26, 1942.
Economy Auto Stores, Inc., Atlanta, Ga. Radiator caps, windshield wiper blades, etc. 385,756; June 9; Serial No. 449,899; published Mar 31, 1942. Class 19.
El Reno Mill & Elevator Co., El Reno, Okla., assignor to General Mills, Inc., Minneapolis, Minn. Wheat flour. 159,350; renewed Sept. 26, 1942.
Etablissements Reynier. (See Reynier & Cie., assignor.)
Firestone Tire & Rubber Company, The, Akron, Ohio. Washing machines. 395,734; June 9; Serial No. 448,000; published Mar. 31, 1942. Class 24.
Fleer, Frank H., Corporation, Philadelphia, Pa. Chewing gum. 395,727; June 9; Serial No. 445,412; published Mar. 31, 1942. Class 46.
Fleetwings, Incorporated, Bristol, Pa. Monthly publication. 395,773; June 9; Serial No. 450,357; published Mar. 31, 1942. Class 38.
Florence Manufacturing Company, Northhampton, Mass., New York, N. Y., and Chicago, Ill., assignor, by mesne assignments, to Pro-phy-lac-tic Brush Company, Northampton, Mass. Dentifrice. 21,733; re-renewed Sept. 13, 1942.
Florence Manufacturing Company, assignor, by mesne assignments, to Pro-phy-lac-tic Brush Company, Northampton, Mass. Toothbrushes. 158,436; renewed Sept. 5, 1942.
Florence Manufacturing Company, assignor, by mesne assignments, to Pro-phy-lac-tic Brush Company, Northampton, Mass. Brushes. 158,437; renewed Sept. 5, 1942.
Ford Flour Company, to Royal Flour Company, Nashville, Tenn., successor. Flour. 153,170; renewed Mar. 14, 1942.
Ford Motor Company, Dearborn, Mich. Lighters for cigars and cigarettes. 395,731; June 9; Serial No. 447,182; published Mar. 31, 1942. Class 21.
Fox River Paper Company, assignor to Fox River Paper Corporation, Appleton, Wis. Writing paper. 160,486–8; renewed Oct. 24, 1942.
Freydberg Bros., Inc., Stamford, Conn., and New York, N. Y. Ribbon manufactured from artificial fibers. 395,738; June 9; Serial No. 448,823; published Mar. 31, 1942. Class 7.
Gaines, M. Charles, New York, N. Y. Comic magazine. 395,739; June 9; Serial No. 448,861; published Mar. 31, 1942. Class 38.
Gates Rubber Company, The, Denver, Colo. Pneumatic tires. 395,793; June 9. Class 35.
General Electric Company, Schenectady, N. Y. Cabinets for electric control apparatus. 395,778; June 9; Serial No. 450,448; published Mar. 31, 1942. Class 21.
General Mills, Inc. (See El Reno Mill & Elevator Co., assignor.)
General Mills, Inc. (See Red Star Milling Company, assignor.)
General Mills, Inc. (See Sperry Flour Company, assignor.)
General Printing Ink Corporation. (See Sun Chemical & Color Company, assignor.)
Gerson-Goodman-Tutelman Co., Philadelphia, Pa. Dress shirts and sport shirts. 395,759; June 9; Serial No. 449,978; published Mar. 31, 1942. Class 39.
Gilbert, A. C., Company, The. (See Meccano Limited, assignor.)
Gilcrest Early Potato Association, Inc., Gilcrest, Colo. Potatoes. 395,774; June 9; Serial No. 450,418; published Mar. 31, 1942. Class 46.
Gillette Safety Razor Company, Boston, Mass. Safety-razor blades. 160,194; renewed Oct. 17, 1942.
Glasco Products Company. (See Chicago Glass Products Company, assignor.)
Glendorable Goods, Glendora, Calif. Securing devices in the nature of shirts having long tongues in the back for tying purposes for children and others. 395,796; June 9. Class 39.
Guy, George H., Seattle, Wash., assignor to United Drug Company, Boston, Mass. Chemical, medicinal, and pharmaceutical preparations. 155,699; renewed June 6, 1942.
H-M Standard Products, Inc., Freeport, N. Y. Monthly publications, charts and booklets. 395,730; June 9; Serial No. 446,779; published Mar. 31, 1942. Class 38.
H-O Cereal Company, Inc., The, Buffalo, by change of name, merger and change of name to Hecker Products Corporation, New York, N. Y. Animal, bird, and poultry feeds. 159,901; renewed Oct. 10, 1942.
Hall, Harold C., doing business as Clayton Oil Company, Pleasant Ridge, Cincinnati, Ohio. Lubricating oils and greases. 395,718; June 9; Serial No. 422,094; published Oct. 3, 1939. Class 15.
Hall, Milton, New York, N. Y. Locks and keys. 395,766; June 9; Serial No. 450,180; published Mar. 31, 1942. Class 25.
Hecker Products Corporation. (See H-O Cereal Company, assignor.)
Heneph Co., Inc., The, assignor, by mesne assignments, to The Heneph Corporation, Kingston, N. Y. Preparations or medicines. 155,708; renewed June 6, 1942.
Herbst, John, doing business as Manor Glass Co., New York, N. Y. Glass figurines. 395,743; June 9; Serial No. 449,206; published Mar. 31, 1942. Class 50.
Herman, John C., & Co., New Cumberland, Pa. Tobacco. 395,744; June 9; Serial No. 449,274; published Mar. 31, 1942. Class 17.
Hettrick Manufacturing Company, The, Toledo, Ohio. Trousers, vests, capes, etc. 395,757; June 9; Serial No. 449,904; published Mar. 31, 1942. Class 39.
Howard Preserving Company, Inc., Miami, Fla. Canned, bottled, and packages preparation of which coconut is the principal ingredient. 395,784; June 9; Serial No. 450,679; published Mar. 31, 1942. Class 46.
Huffman Full Fashioned Mills, Inc., Morganton, N. C. Ladies' full fashion hosiery. 395,748; June 9; Serial No. 449,521; published Mar. 31, 1942. Class 39.
Johnston's Linens, Medina, N. Y. Sheets, pillow cases, and towels. 395,787; June 9. Class 42.
Kane-Weill, New York, N. Y. Dresses, blouses, skirts, etc. 395,802; June 9. Class 39.
Keyes Fibre Company, Waterville, Maine. Plates, dishes, trays, etc. 395,768; June 9; Serial No. 450,280; published Mar. 31, 1942. Class 2.
Kisco Company, Inc., St. Louis, Mo. Circulator fan assemblies. 395,746; June 9; Serial No. 449,459; published Mar. 24, 1942. Class 21.
Kohnstann, H., & Co., Inc., New York, N. Y. Sour for laundry purposes and in treating textiles. 159,924; renewed Oct. 10. 1942.
Lampert, Irving, doing business as Irving Lampert Co., Brooklyn, N. Y. Eyeglass lenses, spectacle lenses, gun sight lenses. 395,771; June 9; Serial No. 450,310; published Mar. 31, 1942. Class 26.
Lebanon Fertilizer Works. (See Levan, Harry D.)
Lehn & Fink Products Corporation, Bloomfield, N. J. Soap. 395,764; June 9; Serial No. 450,105; published Mar. 31, 1942. Class 4.
Lerer, Henry, doing business as Medical Aid Supply Company, New York, N. Y. First aid kits and bandages. 395,781; June 9; Serial No. 450,596; published Mar. 31, 1942. Class 44.
Levan, Harry D., doing business as Lebanon Fertilizer Works, assignor to Lebanon Fertilizer Works, Lebanon, Pa. Fertilizers. 159,018; renewed Sept. 19, 1942.
Lowenstein, B., & Bros., Inc., Memphis, Tenn. Men's suits and overcoats. 395,763; June 9; Serial No. 450,016; published Mar. 31, 1942. Class 39.
Mallinson, H. R., & Co. Inc., assignor to Mallinson Fabrics Corporation, New York, N. Y. Silk piece goods. 155,003; renewed May 16, 1942.
Mallinson, H. R., & Co., Inc., assignor to Mallinson Fabrics Corporation, New York, N. Y. Silk piece goods. 155,251; renewed May 23, 1942.
Manor Glass Co. (See Herbst, John.)
Markets, Inc., Oakland, Calif. Canned dog food. 395,794; June 9. Class 46.

Marlboro Shirt Company, Inc., Baltimore, Md. Dress and sport shirts, jackets and coats, etc. 395,873; June 9; Serial No. 450,652; published Mar. 31, 1942. Class 39.
Marshall Field & Company, Chicago, Ill. Coats, capes, dresses, etc. 395,751; June 9; Serial No. 449,571; published Mar. 31, 1942. Class 39.
Marvellum Company, The, Holyoke, Mass. Cover paper. 160,919; renewed Oct. 31, 1942.
McIlvain, Louis E., Chicago, Ill. Periodical. 395,799; June 9. Class 38.
Meccano Limited, Liverpool, England, assignor to The A. C. Gilbert Company, New Haven, Conn. Electrical toys. 157,149; renewed July 25, 1942.
Medical Aid Supply Company. (See Lerer, Henry.)
Mercury Corporation, The, Kansas City, Mo. Refinishing compound for fabrics. 395,752; June 9; Serial No. 449,620; published Mar. 31, 1942. Class 16.
Messing Bakeries Incorporated, Brooklyn, N. Y. Bread. 395,789–90; June 9. Class 46.
Moulton, Bartley, Inc., St. Louis, Mo. Shoes. 395,717; June 9; Serial No. 414,462; published Mar. 10, 1942. Class 39.
Mundet, L., & Son, by consolidation to Mundet Cork Corporation, Brooklyn, N. Y. Composition cork gaskets and composition cork sheets from which gaskets are cut. 160,591; renewed Oct. 24, 1942.
Mystol Manufacturing Co., to Mystol Manufacturing Company Inc., Glens Falls, N. Y., successor. Food-flavoring extract. 154,800; renewed May 9, 1942.
National Pressure Cooker Company, Eau Claire, Wis. Cookers, pans, skillets, etc. 395,791; June 9. Class 13.
Neuhoff, Fred B., doing business as Fred B. Neuhoff Company, assignor, by mesne assignments, to Fred B. Neuhoff, Los Angeles, Calif. Canned fruits and canned vegetables. 159,458; renewed Sept. 26, 1942.
New England Confectionery Company, Boston, to New England Confectionery Company, Cambridge, Mass. Candy. 155,775–6; renewed June 6, 1942.
New England Confectionery Company, Boston, to New England Confectionery Company, Cambridge, Mass. Candy. 155,780; renewed June 6, 1942.
New England Confectionery Company, Boston, to New England Confectionery Company, Cambridge, Mass. Candy. 156,025–8; renewed June 13, 1942.
New England Confectionery Company, Boston, to New England Confectionery Company, Cambridge, Mass. Candy. 156,368; renewed June 20, 1942.
New England Confectionery Company, Boston, Mass., to New England Confectionery Company, Cambridge, Mass. Candy. 159,048; renewed Sept. 19, 1942.
New England Grain Products Co. (See St. Albans Grain Company, assignor.)
Parker, Ira. (See Walmar Laboratory.)
Paxton & Gallagher, to Paxton and Gallagher Co., Omaha, Nebr., successor. Tea. 21,268; re-renewed June 7, 1942.
Plano Packing House Company, Porterville, Calif. Fresh citrus fruits. 395,785; June 9; Serial No. 450,861; published Mar. 31, 1942. Class 46.
Post, Roy, New York, N. Y. Printed cards. 395,779; June 9; Serial No. 450,458; published Mar. 31, 1942. Class 38.
Press Alliance, Inc., New York, N. Y. Syndicated articles appearing in daily newspaper. 395,750; June 9; Serial No. 449,554; published Mar. 31, 1942. Class 38.
Prime Manufacturing Company, The, Milwaukee, Wis. Fence controllers. 395,775–6; June 9; Serial Nos. 450,427–8; published Mar. 31, 1942. Class 21.
Pro-phy-lac-tic Brush Company. (See Florence Manufacturing Company, assignor.)
Quaker Oats Company, The, Chicago, Ill. Soup mixtures. 395,767; June 9; Serial No. 450,247; published Mar. 31, 1942. Class 46.
Quinn, K. J., & Co. Inc., Boston, Mass. Leather cleaning and polishing preparation. 395,761; June 9; Serial No. 450,000; published Mar. 31, 1942. Class 4.
RCA Manufacturing Company, Inc., Camden, N. J. Furniture polish, and refinishing and polishing kits, etc. 395,726; June 9; Serial No. 445,298; published Mar. 31, 1942. Class 16.
RCA Manufacturing Company, Inc., Camden, N. J. Refrigerators, parts thereof, and accessories therefor. 395,753; June 9; Serial No. 449,807; published Mar. 31, 1942. Class 31.
Red Star Milling Company, The, Wichita, Kans., assignor to General Mills, Inc., Minneapolis, Minn. Wheat flour. 159,489–90; renewed Sept. 26, 1942.
Redwood Garden Materials Company. (See Rose, Clinton F.)
Reynier & Cie., assignor to Etablissements Reynier, assignor to Etablissements Reynier, Grenoble, France. Gloves. 156,401; renewed June 20, 1942.
Reynier & Cie., assignor to Etablissements Reynier, assignor to Etablissements Reynier, Grenoble, France. Gloves. 157,186; renewed July 25, 1942.
Roddenbery Bros., Cairo, Ga. Cane syrup. 159,496; renewed Sept. 26, 1942.
Ro-Nat Sportwear, Inc., New York, N. Y. Sweaters and sweater ensembles. 395,760; June 9; Serial No. 449,982; published Mar. 31, 1942. Class 39.
Rose, Clinton F., doing business as Redwood Garden Materials Company, Los Angeles, Calif. Statues and figures. 395,725; June 9; Serial No. 443,703; published Mar. 31, 1942. Class 50.
Rossotti Lithographing Company, Inc., North Bergen, N. J. Cartons. 395,805; June 9. Class 2.
Rothschild, Maurice L., Incorporated, Chicago, Ill. Wearing apparel. 395,804; June 9. Class 39.
Royal Flour Company. (See Ford Flour Company.)
Rumford Publishing Company, The, Rumford, Maine. Monthly publication. 395,765; June 9; Serial No. 450,116; published Mar. 31, 1942. Class 38.
St. Albans Grain Company, St. Albans, Vt., assignor, by mesne assignments, to New England Grain Products Co., Waterville, Maine. Poultry and stock feeds. 159,534; renewed Sept. 26, 1942.
Samuels, Albert S., Co., The, assignor to Albert S. Samuels Co., San Francisco, Calif. Jewelry and precious-metal ware. 159,081–2; renewed Sept. 19, 1942.
Schranck, H. C., Co., Milwaukee, Wis. Beverages. 158,530; renewed Sept. 5, 1942.
Servisoft, Inc., Rockford, Ill. Tank type water softeners. 395,719; June 9; Serial No. 426,231; published Mar. 31, 1942. Class 13.
Servisoft, Inc., Rockford, Ill. Tank type water softeners. 395,720; June 9; Serial No. 426,348; published Mar. 31, 1942. Class 13.
Song Lyrics, Inc., New York, N. Y. Publication of popular songs. 395,800; June 9. Class 38.
Sperry Flour Company, San Francisco, Calif., assignor, by mesne assignments, to General Mills, Inc., Minneapolis, Minn. Wheat flour. 159,532; renewed Sept. 26, 1942.
Sports Vogue, New York, N. Y. Women's apparel. 395,742; June 9; Serial No. 449,113; published Mar. 31, 1942. Class 39.
Staley, A. E., Manufacturing Company, Decatur, Ill. Corn starch. 395,728; June 9; Serial No. 445,618; published Mar. 31, 1942. Class 46.
Standard-Tilton Milling Co., St. Louis, Mo. Wheat flour. 395,786; June 9; Serial No. 450,868; published Mar. 31, 1942. Class 46.
Stanco Incorporated. (See Standard Oil Company, (Incorporated in New Jersey), assignor.)
Standard Oil Company, (Incorporated in New Jersey), Bayonne, N. J., and New York, N. Y., assignor to Stanco Incorporated, New York, N. Y. Mineral oil. 154,808; renewed May 9, 1942.
Stanford Fruit Growers, Inc., Lake Alfred, Fla. Fresh citrus fruits. 395,769; June 9; Serial No. 450,292; published Mar. 31, 1942. Class 46.
Starr, A., & Company, New York, N. Y. Men's and boys' sport jackets, raincoats, golf jackets. 395,777; June 9; Serial No. 450,431; published Mar. 31, 1942. Class 39.
Sun Chemical & Color Company, Wilmington, Del., and Harrison, N. J., assignor to General Printing Ink Corporation, New York, N. Y. Dry paints. 158,828; renewed Sept. 12, 1942.
Sunday Creek Coal Company, The, Columbus, Ohio. Coal. 395,736–7; June 9; Serial Nos. 448,345–6; published Mar. 31, 1942. Class 1.
Thompson, Joseph, by Timothy Shaw Woodcock, William Thompson, and Ernest Thompson, executors, doing business as Joseph Thompson, to Joseph Thompson (Sheffield) Limited, Sheffield, England, successor. Cutting tools for working wood and metal. 157,219; renewed July 25, 1942.
Tobin Packing Company Incorporated, The, Fort Dodge, Iowa. Meat products. 395,762; June 9; Serial No. 450,005; published Mar. 31, 1942. Class 46.
Tolhurst Machine Works, Troy, N. Y., assignor, by mesne assignments, to American Machine and Metals, Inc., East Moline, Ill. Centrifugal drying machines, also known as hydro-extractors. 158,116; renewed Aug. 22, 1942.
Tudor, Dan, Delano, Calif. Grapes. 395,798; June 9. Class 46.
United Drug Company. (See Guy, George H., assignor.)
United States Envelope Company, Springfield, Mass. Envelopes. 158,127; renewed Aug. 22, 1942.
United States Envelope Company, Springfield, Mass. Envelopes. 160,701; renewed Oct. 24, 1942.
Universal Battery Company, assignor to Universal Battery Company, Chicago, Ill. Electrical apparatus. 158,311; renewed Aug. 29, 1942.
Universal Dental Company, Philadelphia, Pa. Dental supplies. 395,780; June 9; Serial No. 450,524; published Mar. 31, 1942. Class 44.
Upjohn Company, The, Kalamazoo, Mich. Periodical magazine. 395,782; June 9; Serial No. 450,635; published Mar. 31, 1942. Class 38.
Utilities Distributors, Inc., Portland, Maine. Bottled gas installation housing and equipment units. 395,729; June 9; Serial No. 445,675; published Mar. 31, 1942. Class 34.
Walmar Laboratory, to Ira Parker, doing business as Walmar Laboratory, Oshkosh, Wis., successor. Stove cleansers. 155,556; renewed May 30, 1942.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Control apparatus for electric welders. 395,741; June 9; Serial No. 449,110; published Mar. 24, 1942. Class 21.
Woodcock, Timothy S., executor, et al. (See Thompson, Joseph.)
Zephyr Laundry Machinery Co., Inc., Chicago, Ill. Laundry machinery and equipment. 395,745; June 9; Serial No. 449,333; published Mar. 10, 1942. Class 24.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Sunday Creek Coal Company. 395,736–7; June 9; Serial Nos. 448,345–6; published Mar. 31, 1942.

CLASS 2

Cartons. Rossotti Lithographing Company, Inc. 395,805; June 9.
Plates, dishes, trays, etc. Keyes Fibre Company. 395,768; June 9; Serial No. 450,280; published Mar. 31, 1942.

CLASS 4

Cleaning and polishing preparation, Leather. K. J. Quinn & Co. Inc. 395,761; June 9; Serial No. 450,000; published Mar. 31, 1942.
Cleansers, Stove. Walmar Laboratory. 155,556; renewed May 30, 1942.
Preparation for use on glass, lenses, reflectors, etc. Carhoff Company. 395,735; June 9; Serial No. 448,243; published Mar. 31, 1942.
Soap. Lehn & Fink Products Corporation. 395,764; June 9; Serial No. 450,105; published Mar. 31, 1942.

CLASS 6

Chemical, medicinal, and pharmaceutical preparations. G. H. Guy. 155,699; renewed June 6, 1942.
Dentifrice. Florence Manufacturing Company. 21,733; re-renewed Sept. 31, 1942.
Preparations or medicines. Heneph Co. 155,708; renewed June 6, 1942.
Sour for laundry purposes and in treating textiles. H. Kohnstamm & Co. 159,924; renewed Oct. 10, 1942.

CLASS 7

Ribbon manufactured from artificial fibers. Freydberg Bros., Inc. 395,738; June 9; Serial No. 448,823; published Mar. 31, 1942.

CLASS 10

Fertilizers. H. D. Levan. 159,018; renewed Sept. 19, 1942.

CLASS 12

Masonry mixture of sand, cement, and hydrated lime, Prepared. Cleveland Builders Supply & Brick Company. 160,415; renewed Oct. 24, 1942.
Mixture for use in the construction of sidewalks and the like. Cleveland Builders Supply and Brick Company. 153,137; renewed Mar. 14, 1942.

CLASS 13

Cookers, pans, skillets, etc. National Pressure Cooker Company. 395,791; June 9.
Fasteners, plates, clamps, etc. Crescent Belt Fastener Company. 154,911; renewed May 16, 1942.
Tank type water softeners. Servisoft, Inc. 395,719; June 9; Serial No. 426,231; published Mar. 31, 1942.
Tank type water softeners. Servisoft, Inc. 395,720; June 9; Serial No. 426,348; published Mar. 31, 1942.
Valves and unions and indicator posts, floor stands, etc. Darling Valve & Manufacturing Company. 154,914; renewed May 16, 1942.

CLASS 14

Castings, Nonferrous metal. Doehler Die-Casting Company. 159,334–5; renewed Sept. 26, 1942.

CLASS 15

Oil, Mineral. Standard Oil Company, (Incorporated in New Jersey). 154,808; renewed May 9, 1942.
Oils and greases, Lubricating. H. C. Hall. 395,718; June 9; Serial No. 422,094; published Oct. 3, 1939.

CLASS 16

Paint boxes, sets, trays, etc. American Crayon Company. 395,758; June 9; Serial No. 449,950; published Mar. 31, 1942.
Paints, Dry. Sun Chemical & Color Company. 158,828; renewed Sept. 12, 1942.
Polish, and refinishing and polishing kits, etc., Furniture. RCA Manufacturing Company. 395,726; June 9; Serial No. 445,298; published Mar. 31, 1942.
Refinishing compound for fabrics. Mercury Corporation. 395,752; June 9; Serial No. 449,620; published Mar. 31, 1942.

CLASS 17

Tobacco. John C. Herman & Co. 395,744; June 9; Serial No. 449,274; published Mar. 31, 1942.
Tobacco and cigarettes. British-American Tobacco Company. 155,388; renewed May 30, 1942.

CLASS 19

Cars, Motor, Crossley Motors Limited. 159,859; renewed Oct. 10, 1942.
Radiator caps, windshield wiper blades, etc. Economy Auto Stores, Inc. 395,756; June 9; Serial No. 449,899; published Mar. 31, 1942.

CLASS 21

Cabinets for electric control apparatus. General Electric Company. 395,778; June 9; Serial No. 450,448; published Mar. 31, 1942.
Circulator for assemblies. Kisco Company. 395,746; June 9; Serial No. 449,459; published Mar. 24, 1942.
Control apparatus for electric welders. Westinghouse Electric & Manufacturing Company. 395,741; June 9; Serial No. 449,110; published Mar. 24, 1942.
Controllers, Fence. Prime Manufacturing Company. 395,775–6; June 9; Serial No. 450,427–8; published Mar. 31, 1942.
Electric lighting fixtures. Art Metal Company. 395,722; June 9; Serial No. 439,328; published Mar. 24, 1942.
Electric lighting fixtures. Day-Brite Lighting, Inc. 395,747; June 9; Serial No. 449,477; published Mar. 24, 1942.
Electrical apparatus. Universal Battery Company. 158,311; renewed Aug. 29, 1942.
Electrical apparatus. Delta-Star Electric Company. 158,423; renewed Sept. 5, 1942.
High-voltage indicators. Air Reduction Sales Company. 395,749; June 9; Serial No. 449,532; published Mar. 17, 1942.
Insulators and insulating appliances and fittings. T. De La Rue. 151,461; renewed Feb. 7, 1942.
Lighters for cigars and cigarettes. Ford Motor Company. 395,731; June 9; Serial No. 447,182; published Mar. 31, 1942.
Microphones. Brush Development Company. 395,724; June 9; Serial No. 441,723; published Mar. 24, 1942.

CLASS 22

Toys, Electrical. Meccano Limited. 157,149; renewed July 25, 1942.

CLASS 23

Blades, Safety-razor. Gillette Safety Razor Company. 160,194; renewed Oct. 17, 1942.
Centrifugal drying machines, also known as hydro-extractors. Tolhurst Machine Works. 158,116; renewed Aug. 22, 1942.
Tools for working wood and metal, Cutting. J. Thompson. 157,219; renewed July 25, 1942.

CLASS 24

Laundry machinery and equipment. Zephyr Laundry Machinery Co. 395,745; June 9; Serial No. 449,333; published Mar. 10, 1942.
Washing machines. Firestone Tire & Rubber Company. 395,734; June 9; Serial No. 448,000 published Mar. 31, 1942.

CLASS 25

Locks and keys. M. Hall. 395,766; June 9; Serial No. 450,180; published Mar. 31, 1942.

CLASS 26

Cinematographic and photographic apparatus and accessories thereto. Bol, Ltd. 395,795; June 9.
Eyeglass lenses, spectacle lenses, gun sight lenses. I. Lampert. 395,771; June 9; Serial No. 450,310; published Mar. 31, 1942.

CLASS 28

Jewelry and precious-metal ware. A. S. Samuels Co. 159,081–2; renewed Sept. 19, 1942.

CLASS 29

Brushes. Florence Manufacturing Company. 158,437; renewed Sept. 5, 1942.
Toothbrushes. Florence Manufacturing Company. 158,436; renewed Sept. 5, 1942.

CLASS 31

Refrigerators, parts thereof, and accessories therefor. RCA Manufacturing Company. 395,753; June 9; Serial No. 449,807; published Mar. 31, 1942.

CLASS 32

Furniture. Bunting Glider Company. 395,788; June 9.

CLASS 34

Bottled gas installation housing and equipment units. Utilities Distributors, Inc. 395,729; June 9; Serial No. 445,675; published Mar. 31, 1942.
Ranges, gas heaters; combination ranges for coal, wood, and gas; etc., Gas. Cleveland Co-Operative Stove Company. 160,152; renewed Oct. 17, 1942.

CLASS 35

Gaskets and compositions cork sheets from which gaskets are cut, Composition cork. L. Mundet & Son. 160,591; renewed Oct. 24, 1942.

Machinery packing composed of asbestos and rubber. Anchor Packing Company. 160,368; renewed Oct. 24, 1942.
Tires, Pneumatic. Gates Rubber Company. 395,793; June 9.

CLASS 37

Envelopes. United States Envelope Company. 158,127; renewed Aug. 22, 1942.
Envelopes. United States Envelope Company. 160,701; renewed Oct. 24, 1942.
Paper, Cover. Marvellum Company. 160,919; renewed Oct. 31, 1942.
Paper, paper toweling, crepe paper, Kraft, wrapping, bond and print. Brown Company. 159,291; renewed Sept. 26, 1942.
Paper products. Brown Company. 395,754; June 9; Serial No. 449,849; published Mar. 31, 1942.
Paper, Writing. Fox River Paper Company. 160,486–8; renewed Oct. 24, 1942.

CLASS 38

Cards, Printed. R. Post. 395,779; June 9; Serial No. 450,458; published Mar. 31, 1942.
Comic magazine. M. C. Gaines. 395,730; June 9; Serial No. 448,861; published Mar. 31, 1942.
Magazine, Monthly, illustrated, fashion. H. Conover. 395,755; June 9; Serial No. 449,851; published Mar. 31, 1942.
Magazine, Periodical. Upjohn Company. 395,782; June 9; Serial No. 450,635; published Mar. 31, 1942.
Maps, pamphlets, and books. American Automobile Association. 155,189–90; renewed May 23, 1942.
Newspaper. American Newspapers, Inc. 395,801; June 9.
Periodical. L. E. McIlvain. 395,799; June 9.
Pictures and cartoons. W. R. Allman. 158,592; renewed Sept. 12, 1942.
Publication of popular songs. Song Lyrics, Inc. 395,800; June 9.
Publication, Monthly. Rumford Publishing Company. 395,765; June 9; Serial No. 450,116; published Mar. 31, 1942.
Publication, Monthly. Fleetwings, Incorporated. 395,773; June 9; Serial No. 450,357; published Mar. 31, 1942.
Publication, Periodical. Air Reduction Sales Company. 395,732; June 9; Serial No. 447,531; published Mar. 31, 1942.
Publications, charts and booklets, Monthly. H-M Standard Products, Inc. 395,730; June 9; Serial No. 446,770; published Mar. 31, 1942.
Syndicated articles appearing in daily newspaper. Press Alliance, Inc. 395,750; June 9; Serial No. 449,554; published Mar. 31, 1942.

CLASS 39

Apparel, Wearing. M. L. Rothschild, Incorporated. 395,804; June 9.
Apparel, Women's. Sports Vogue. 395,742; June 9; Serial No. 449,113; published Mar. 31, 1942.
Coats, capes, dresses, etc. Marshall Field & Company. 395,751; June 9; Serial No. 449,571; published Mar. 31, 1942.
Dresses, blouses, skirts, etc. Kane-Weill. 395,802; June 9.
Gloves. Reynier & Cie. 156,401; renewed June 20, 1942.
Gloves. Reynier & Cie. 157,186; renewed July 25, 1942.
Hosiery, Ladies' full fashion. Huffman Full Fashioned Mills, Inc. 395,748; June 9; Serial No. 449,521; published Mar. 31, 1942.
Jackets, lumberjackets, windbreakers, etc., Sport. Bee & Em Mfg. Co. 395,803; June 9.
Jackets, raincoats, golf jackets, Men's and boys' sport. A. Starr & Company. 395,777; June 9; Serial No. 450,431; published Mar. 31, 1942.
Shirts, Dress and sport. Gerson-Goodman-Tutelman Co. 395,759; June 9; Serial No. 449,978; published Mar. 31, 1942.
Shirts having long tongues in the back for tying purposes for children and others, Securing devices in the nature of. Glendorable Goods. 395,796; June 9.
Shirts, jackets and coats, etc., Dress and sport. Marlboro Shirt Company. 395,783; June 9; Serial No. 450,652; published Mar. 31, 1942.
Shoes. Moulton, Bartley, Inc. 395,717; June 9; Serial No. 414,462; published Mar. 10, 1942.
Suits and overcoats, Men's. B. Lowenstein & Bros. Inc. 395,763; June 9; Serial No. 450,016; published Mar. 31, 1942.
Sweaters and sweater ensembles. Ro-Nat Sportwear, Inc. 395,760; June 9; Serial No. 449,982; published Mar. 31, 1942.
Toplifts for shoes, Celluloid-backed leather. Capachione Bros. & Co. 395,772; June 9; Serial No. 450,353; published Mar. 31, 1942.
Trousers, vests, capes, etc. Hettrick Manufacturing Company. 395,757; June 9; Serial No. 449,904; published Mar. 31, 1942.
Uniforms and aprons. Bloomingdale Bros. 395,792; June 9.

CLASS 42

Sheets, pillow cases and towels. Johnston's Linens. 395,787; June 9.
Silk piece goods. H. R. Mallinson & Co. Inc. 155,003; renewed May 16, 1942.
Silk piece goods. H. R. Mallinson & Co., Inc. 155,251; renewed May 23, 1942.

CLASS 44

Dental supplies. Universal Dental Company. 395,780; June 9; Serial No. 450,524; published Mar. 31, 1942.
Glass products. Chicago Glass Products Company. 158,637; renewed Sept. 12, 1942.
Kits and bandages, First aid. H. Lerer. 395,781; June 9; Serial No. 450,596; published Mar. 31, 1942.
Traction splints, and traction applying attachments. Bridgeport Device Co. 395,770; June 9; Serial No. 450,301; published Mar. 31, 1942.

CLASS 45

Beverages. H. C. Schranck Co. 158,530; renewed Sept. 5, 1942.
Coffee beverage. Anheuser-Busch, Incorporated. 160,127; renewed Oct. 17, 1942.

CLASS 46

Bread. Messing Bakeries Incorporated. 395,789–90; June 9.
Candy. R. F. Adams. 395,723; June 9; Serial No. 440,229; published Mar. 31, 1942.
Candy. New England Confectionery Company. 155,775–6; renewed June 6, 1942.
Candy. New England Confectionery Company. 155,780; renewed June 6, 1942.
Candy. New England Confectionery Company. 156,025–8; renewed June 13, 1942.
Candy. New England Confectionery Company. 156,368; renewed June 20, 1942.
Candy. New England Confectionery Company. 159,048; renewed Sept. 19, 1942.
Canned, bottled, and packaged preparation of which coconut is the principal ingredient. Howard Preserving Company. 395,784; June 9; Serial No. 450,679; published Mar. 31, 1942.
Canned dog food. Markets, Inc. 395,794; June 9.
Canned fruits and canned vegetables. F. B. Neuhoff. 159,458; renewed Sept. 26, 1942.
Coffee. E. Bierhaus & Sons. 395,721; June 9; Serial No. 438,643; published Mar. 31, 1942.
Coffee, and coffee and chicory. L. J. Dittmann Coffee Co. 395,797; June 9.
Corn meal. City Mills Company. 159,313; renewed Sept. 26, 1942.
Corn starch. A. E. Staley Manufacturing Company. 395,728; June 9; Serial No. 445,618; published Mar. 31, 1942.
Extract, Food-flavoring. Mystol Manufacturing Co. 154,800; renewed May 9, 1942.
Feed, Livestock and poultry. Arcady Farms Milling Company. 395,733; June 9; Serial No. 447,776; published Mar. 31, 1942.
Feeds, Animal, bird, and poultry. H-O Cereal Company. 159,901; renewed Oct. 10, 1942.
Feeds, Poultry and stock. St. Albans Grain Company. 159,534; renewed Sept. 26, 1942.
Flour. Ford Flour Company. 153,170; renewed Mar. 14, 1942.
Flour, Wheat. El Reno Mill & Elevator Co. 159,350; renewed Sept. 26, 1942.
Flour, Wheat. Red Star Milling Company. 159,489–90; renewed Sept. 26, 1942.
Flour, Wheat. Sperry Flour Company. 159,532; renewed Sept. 26, 1942.
Flour, Wheat. Standard-Tilton Milling Co. 395,786; June 9; Serial No. 450,868; published Mar. 31, 1942.
Fruits, Fresh citrus. Plano Packing House Company. 395,785; June 9; Serial No. 450,861; published Mar. 31, 1942.
Fruits, Fresh citrus. Stanford Fruit Growers, Inc. 395,769; June 9; Serial No. 450,292; published Mar. 31, 1942.
Grapes. D. Tudor. 395,798; June 9.
Gum, Chewing. Frank H. Fleer Corporation. 395,727; June 9; Serial No. 445,412; published Mar. 31, 1942.
Meat products. Tobin Packing Company Incorporated. 395,762; June 9; Serial No. 450,005; published Mar. 31, 1942.
Potatoes. Gilcrest Early Potato Association, Inc. 395,774; June 9; Serial No. 450,418; published Mar. 31, 1942.
Soup mixtures. Quaker Oats Company. 395,767; June 9; Serial No. 450,247; published Mar. 31, 1942.
Syrup, Cane. Roddenbery Bros. 159,496; renewed Sept. 26, 1942.
Tea. Paxton & Gallagher. 21,268; re-renewed June 7, 1942.

CLASS 50

Advertising device for lipsticks. Elizabeth Arden Sales Corporation. 395,740; June 9; Serial No. 449,033; published Mar. 31, 1942.
Bottle stoppers and bottle lids. T. De La Rue. 157,043; renewed July 25, 1942.
Figurines, Glass. J. Herbst. 395,743; June 9; Serial No. 449,206; published Mar. 31, 1942.
Statues and figures. C. F. Rose. 395,725; June 9; Serial No. 443,703; published Mar. 31, 1942.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 9TH DAY OF JUNE, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Crecca, John D., United States Navy. Securing sheathing to metal. Re. 22,108; June 9.
Hayes, Helen, New York, N. Y. Greeting replica. Re. 22,109; June 9.
Hazeltine Corporation. (See Wheeler, Harold A., assignor.)
Illinois Tool Works. (See Poupitch, Ouglijesa J., assignor.)
Poupitch, Ouglijesa J., assignor to Illinois Tool Works, Chicago, Ill. Gear testing and recording machine. Re. 22,110; June 9.
Radio Corporation of America. (See Trenor, Albert D., assignor.)
Trenor, Albert D., Gloucester, Mass., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Control of broadcasting by keys. Re. 22,111; June 9.
Wheeler, Harold A., Great Neck, N. Y., assignor to Hazeltine Corporation. Television broadcast system. 22,112; June 9.

LIST OF PLANT PATENTEES

Schultz, Elmer H., assignor to The Wayside Gardens Company, Mentor, Ohio. Phlox. 527; June 9.
Wayside Gardens Company, The. (See Schultz, Elmer H., assignor.)

LIST OF DESIGN PATENTEES

Abt, John H., New York, N. Y. Textile fabric. 132,680; June 9.
Air-Way Electric Appliance Corporation. (See Dow, Dewey M., assignor.)
American Coach & Body Company, The. (See Troche, H. J., and Holan, Jr., assignors.)
American Optical Company. (See Peck, W. F., Gradisar, and Armbruster, assignors.)
Anderson, Rex R., Marshall, Mich. House trailer. 132,708; June 9.
Anderson, Sonia D., Philadelphia, Pa. Folding back rest frame or similar article. 132,731; June 9.
Appel, Robert, New York, N. Y. Handbag. 132,694; June 9.
Arens, Egmont, New York, N. Y. Jewelry finding. 132,681; June 9.
Armbruster, John T., et al. (See Peck, W. F., and Armbruster.)
Armbruster, John T., et al. (See Peck, W. F., Gradisar, and Armbruster.)
Automatic Instrument Company. (See Roberts, Henry T., assignor.)
Autoyre Company, The. (See Sanford, R. S., assignor.)
Behrman, Harry P., St. Albans, N. Y. Wallet. 132,695; June 9.
Bell, Walter, New York, N. Y. Bottle or the like. 132,732; June 9.
Berns, Gerald R., Yonkers, N. Y. Shoe stand or similar article. 132,733; June 9.
Bixer, Edmond P., New York, N. Y. Curtain or similar article. 132,713; June 9.
Boyle, Cleata M., Pana, Ill. Brooch or similar article. 132,696; June 9.
Brubaker, Jacob E., assignor to The Hubley Manufacturing Company, Lancaster, Pa. Toy pistol. 132,661; June 9.
Carnes, Samuel J., Camden, Ark. Combined salt shaker, pepper shaker, and tray therefor. 132,662; June 9.
Carroll, Anna L. S., New York, N. Y. Dress. 132,750; June 9.
Carroll, Anna L. S., New York, N. Y. Dress. 132,751; June 9.
Carroll, Anna L. S., New York, N. Y. Dress. 132,752; June 9.
Carroll, Anna L. S., New York, N. Y. Dress. 132,753; June 9.
Carroll, Anna L. S., New York, N. Y. Dress. 132,754; June 9.
Carroll, Anna L. S., New York, N. Y. Dress. 132,755; June 9.
Coffield, Charles W., Chicago, Ill. Lapel button or similar article. 132,714; June 9.
Collom, Cletus J., assignor to Weltronic Corporation, Detroit, Mich. Radio telephone transmitter and receiver or similar article. 132,741; June 9.
Defiance Alloyed Products Company, The. (See Houston, Junius W., assignor.)
Dictaphone Corporation. (See O'Neil, William J., assignor.)
Dinsmore Associates, Inc. (See Dinsmore, John C., assignor.)
Dinsmore, John C., assignor to Dinsmore Associates, Inc., Chicago, Ill. Mobile food service unit. 132,749; June 9.
Dow, Dewey M., assignor to Air-Way Electric Appliance Corporation, Toledo, Ohio. Floor brush attachment for suction tools. 132,715; June 9.
Dreyfuss, Henry, New York, N. Y. Fountain pen or similar article. 132,663; June 9.
Dreyfuss, Henry, New York, N. Y. Fountain pen or similar article. 132,664; June 9.
Dutton, Charles F., Rocky River, Ohio. Projecting lantern. 132,665; June 9.
Dykes, George M., Miami, Fla. Truck frame. 132,709; June 9.
Elsman, Maurice S., Philadelphia, Pa. Combination phonograph and radio cabinet. 132,716; June 9.
Fess, Jacob, Chicago, Ill. Condiment holder. 132,666; June 9.
Firestone Tire & Rubber Company, The. (See Hale, James E., assignor.)
Flood, Edward, New York, N. Y. Badge or similar article. 132,667; June 9.
Forton, George, Detroit, Mich. Motorboat. 132,682; June 9.
Foster, Milton E., near Seattle, Wash. Tool driver. 132,683; June 9.
Frantz, Paul E., Euclid, Ohio. Vacuum cleaner. 132,697; June 9.
Franz, Henry, assignor to The Pharis Tire and Rubber Company, Newark, Ohio. Tire. 132,668; June 9.
Frisbie, A. C., Jr., Kansas City, Mo. Sign. 132,669; June 9.
Galetzky, Hyman, Bronx, N. Y. Mandolin pick. 132,717; June 9.
Gillette Safety Razor Company. (See Hollis, Morton, assignor.)
Goldsmith, Michael D. (See Worth, H., and Goldsmith.)
Gould, Corinne H., Portland, Oreg. Lamp or similar article. 132,734; June 9.
Gradisar, Albin A., et al. (See Peck, W. F., Gradisar, and Armbruster.)
Hale, James E., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Tire. 132,684; June 9.
Holan, James H., Jr. (See Troche, H. J., and Holan, Jr., assignors.)
Hollis, Morton, Brookline, assignor to Gillette Safety Razor Company, Boston, Mass. Case for safety razors and shaving accessories. 132,698; June 9.
Houston, Junius W., Defiance, Ohio, assignor to The Defiance Alloyed Products Company. Fan casing. 132,685; June 9.
Hubley Manufacturing Company, The. (See Brubaker, Jacob E., assignor.)
Ireys, Meredith S., Lancaster, Pa., assignor to Nelson, Baker & Company, Detroit, Mich. Bottle. 132,699; June 9.
Isenhour, Russell R., assignor of one-half to V. L. Minet, Geneva, N. Y. Match folder. 132,735; June 9.
Jakobb, Christian A., Bayside, Long Island, N. Y. Brooch or similar article. 132,718; June 9.
Jarvis, Howard A., Los Angeles, Calif. Sandal or similar article. 132,700; June 9.

Jenkins, Samuel J., Waxahachie, Tex. Velocipede frame member. 132,686; June 9.
Krasnow, Philip, New York, N. Y. Wedding ring. 132,670; June 9.
Krasnow, Philip, New York, N. Y. Wedding ring. 132,671; June 9.
Krasnow, Philip, New York, N. Y. Wedding ring. 132,672; June 9.
Krasnow, Philip, New York, N. Y. Wedding ring. 132,673; June 9.
Kupperman, Martin E., Waukegan, Ill., assignor to Steel Kitchens Corporations, Connersville, Ind. Drawer. 132,687; June 9.
Lacome, Fred, New York, N. Y. Combination sport and dress hat. 132,756; June 9.
Leppke, Louis A., Omaha, Nebr. Badge or similar article. 132,736; June 9.
Le Tourneau, R. G., Inc. (See Le Tourneau, Robert G., assignor.)
Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc. Combined tractor and implement unit. 132,742; June 9.
Libbey Glass Company. (See Sawyer, Charles W., assignor.)
Lippard, Van F., Washington, D. C. Machine for peening and reshaping pistons. 132,719; June 9.
Marchand, Adolph, Jackson Heights, N. Y. Mirrored cabinet. 132,737; June 9.
Marrone, Michael G., Fitchburg, Mass. Bench or similar article. 132,674; June 9.
McManus, John P., assignor of forty-five per cent to M. A. B. McManus, Ottowa, Ontario, Canada. Deck of playing cards. 132,701; June 9.
McManus, Mary A. B. (See McManus, John P., assignor.)
Mears, Emeline, Pasadena, Calif. Combined book marker and line guide. 132,720; June 9.
Meyer, Maximilian C., Brooklyn, N. Y. Jewelry pin. 132,721; June 9.
Meyer, Maximilian C., Brooklyn, N. Y. Jewelry pin. 132,722; June 9.
Meyer, Maximilian C., Brooklyn, N. Y. Jewelry pin. 132,738; June 9.
Miller, Royal R., Los Angeles, Calif. Folding cigarette case. 132,739; June 9.
Miller, Walter H., Kansas City, Mo. Smoker's tray. 132,740; June 9.
Millican, Elliott H., El Paso, Tex. Badge or similar article. 132,702; June 9.
Minet, Valere L. (See Isenhour, Russell R., assignor.)
Munk, George M., Springdale, Conn. Tie holder. 132,675; June 9.
Nelson, Baker & Company. (See Ireys, Meredith S., assignor.
O'Neil, William J., Atlantic Beach, assignor to Dictaphone Corporation, New York, N. Y. Combined desk microphone and loudspeaker. 132,743; June 9.
Panish, Erwin J., Bridgeport, Conn. Dual handle controller. 132,723; June 9.
Parva Products Company. (See White, Paul W., assignor.
Peck, William F., Snyder, A. A. Gradisar, Buffalo, and J. T. Armbruster, Niagara Falls, N. Y., assignors to American Optical Company, Southbridge, Mass. Retinoscope or the like. 132,703; June 9.
Peck, William F., Snyder, and J. T. Armbruster, Niagara Falls, assignors to Spencer Lens Company, Buffalo, N. Y. Illuminating projector. 132,744; June 9.
Pharis Tire and Rubber Company, The. (See Franz, Henry, assignor.)
Powell, Jessie N., Chevy Chase, Md. Pin or similar article. 132,688; June 9.
Rasmussen, Frank H., Chicago, Ill. Badge or similar article. 132,689; June 9.
Redding, Leonard O., Forest Hills, N. Y. Banner or the like. 132,690; June 9.
Rival Manufacturing Company. (See Talge, Henry J.)
Roberts, Henry T., Chicago, Ill., assignor to Automatic Instrument Company, Grand Rapids, Mich. Phonograph cabinet. 132,724; June 9.
Roberts, Paul, St. Louis, Mo. Stepladder. 132,676; June 9.
Rosenstein, Charles, Paterson, N. J. Textile fabric or similar article. 132,745; June 9.
Sanford, Roy S., assignor to The Autoyre Company, Incorporated, Oakville, Conn. Towel bar. 132,710; June 9.
Sanford, Roy S., assignor to The Autoyre Company, Incorporated, Oakville, Conn. Towel bar. 132,711; June 9.
Sawyer, Charles W., assignor to Libbey Glass Company, Toledo, Ohio. Pitcher. 132,677; June 9.
Sawyer, Charles W., assignor to Libbey Glass Company, Toledo, Ohio. Vase. 132,691; June 9.
Sawyer, Charles W., assignor to Libbey Glass Company, Toledo, Ohio. Vase. 132,692; June 9.
Schenker, Jack E., Chicago, Ill. Record holder file. 132,746; June 9.
Shapiro, Morris, Los Angeles, Calif. Jacket or similar article. 132,757; June 9.
Simmons, Leone, New York, N. Y. Dress. 132,758; June 9.
Slater, Harold, New York, N. Y. Textile fabric or the like. 132,704; June 9.
Sokolove, Theodore, Baltimore, Md. Clothing rack. 132,725; June 9.
Solash, Max, Linden, N. J. Hat. 132,726; June 9.
Spencer Lens Company. (See Peck, W. F., and Armbruster, assignors.)
Steel Kitchens Corporation. (See Kupperman, M. E., assignor.)
Talge, Foster L. (See Talge, Henry J., assignor.)
Talge, Henry J., assignor to F. L. Talge, Kansas City, Mo., doing business as Rival Manufacturing Company. Fruit juice extractor. 132,678; June 9.
Tarnopoll, Charles, Brooklyn, N. Y. Picture frame. 132,727; June 9.
Trimble, Arthur G., Pittsburgh, Pa. Pin or the like. 132,728; June 9.
Troche, Herman J., Cleveland Heights, and J. H. Holan, Jr., Lakewood, assignors to The American Coach & Body Company, Cleveland, Ohio. Maintenance service truck. 132,712; June 9.
Varin, Nellis S., Brooklyn, N. Y. Lipstick holder. 132,729; June 9.
Webb, Edwin Y., Jr., Atlanta, Ga. Badge or similar article. 132,693; June 9.
Weltronic Corporation. (See Collom, Cletus J., assignor.)
West, Edwin S., New York, N. Y. Badge or similar article. 132,730; June 9.
White, Paul W., Waterbury, Conn., assignor to Parva Products Company, Chicago, Ill. Buckle. 132,679; June 9.
Wilde, Hans W., North Bergen, N. J. Textile fabric. 132,747; June 9.
Wilde, Hens W., North Bergen, N. J. Textile fabric. 132,748; June 9.
Wittmann, Max, New York, N. Y. Badge or similar article. 132,705; June 9.
Worth, Henry, and M. D. Goldsmith, New York, N. Y. Jar or similar receptacle. 132,706; June 9.
Ziegler, John W., Garden City, N. Y. Plaque. 132,707; June 9.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 9TH DAY OF JUNE, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aiazzone, Remo. (See Reenstierna, Gustaf L., assignor.)
Ajax Electrothermic Corporation. (See Tama, Manuel and Mario, assignors.)
Akron Standard Mold Company. (See Bostwick, Henry C., assignor.)
Alfthan, Johannes, New York, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of filaments. 2,285,552; June 9.
Allen, Alton K., Brooklyn, assignor to The Western Union Telegraph Company, New York, N. Y. Web feeding mechanism. 2,285,790; June 9.
Allen, Earl M., assignor to The Union Switch & Signal Company, Swissvale, Pa. Signaling apparatus. 2,285,880; June 9.
Allen, Frank B. (See Cahusac, C. N., and Allen.)
Allen, Joseph W., East Orange, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Electrical apparatus. 2,285,397; June 9.
Alliance Manufacturing Company, The. (See Schneider, Emmor V., assignor.)
Allied Chemical & Dye Corporation. (See Brown, William B., assignor.)
Allison, Leslie R., Forest Hills, assignor to The Union Switch & Signal Company, Swissvale, Pa. Approach control apparatus. 2,285,881; June 9.
Aluminum Company of America. (See Slunder, Charles J., assignor.)
American Automatic Typewriter Company. (See Kloid, Henry W., assignor.)
American Cyanamid Company. (See Christmann, L. J., and Houpt, assignors.)
American Cyanamid & Chemical Corporation. (See Davis, Clarke F., assignor.)
American Cyanamid Company. (See Hechenbleikner, Ingenuin, assignor.)
American Cyanamid Company. (See Swain, Robert C., assignor.)
American Cystoscope Makers, Inc. (See Jeckel, Norman C., assignor.)
American District Telegraph Company. (See Farmer, Paul M., assignor.)
American Forging and Socket Company. (See Oberhoffken, Alexander, assignor.)
American Machine & Foundry Company. (See Neumair, Joseph A., assignor.)
American Sales Book Company. (See Hageman, Louis F., assignor.)
American Sales Book Company. (See Hollingsworth, Vern C., assignor.)
American Seal-Kap Corporation of Delaware. (See Doe, Claude R., assignor.)
American Viscose Corporation. (See McDermott, Henry J., assignor.)
American Window Glass Company. (See Grein, S. F., and Magrini, assignors.)
Ames Baldwin Wyoming Co. (See Turner, Winthrop C., assignor.)
Amico, Joseph, assignor to Frank Keiper, Rochester, N. Y. Apparatus for cementing soles on shoes. 2,285,598; June 9.
Amtsberg, Lester A., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Impact clutch. 2,285,638; June 9.
Amtsberg, Lester A., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Impact clutch. 2,285,639; June 9.
Andersen, Herbert H., Beverly, and D. G. Cameron, Lynn, Mass., assignors to General Electric Company. Time delay transfer mechanism. 2,285,882; June 9.
Anderson, Edmund B. (See Swenson, C. E., and Anderson.)
Anderson, Ernst G. K., Chicago, Ill. Electrical fixture. 2,285,883; June 9.
Anderson, Walter A., Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Accounting machine. 2,285,640; June 9.
Anderson, Walter A., Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Carriage control for accounting machines. 2,285,641; June 9.
Anderson, William H. (See Pierson, Willett C., assignor.)
Anglo-Saxon Petroleum Company, The. (See Rigby, Richard, assignor.)
Anschicks, Rudolph J. (See Stando, J. P., Kennedy, and Anschicks.)
Arit, Herbert G., Teaneck, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Method and apparatus for electroplating magnetizable articles in bulk. 2,285,553; June 9.
Armour and Company. (See Murphy, Harry L., assignor.)
Arneson, Edwin L., Morris, Ill. Bottle holder. 2,285,399; June 9.
Art Metal Construction Company. (See Gronberg, V. A., and Hultberg, assignors.)
Ashby, Carl T., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,285,884; June 9.
Ashworth, Fred, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Cement applying machine. 2,285,484; June 9.
Associated Electric Laboratories. (See Obergfell, Herbert F., assignor.)
Astley, William F., Cicero, assignor to Union Asbestos & Rubber Company, Chicago, Ill. Loom controlling mechanism. 2,285,385; June 9.
Atkin, Lawrence. (See Schultz, A. S., Atkin, and Frey.)
Atwood Machine Company. (See Winslow, Albert E., assignor.)
Atwood, Wilmerth R., Odessa, Tex. Sheet metal working tool. 2,285,386; June 9.
Auslander, Henry, Brooklyn, N. Y. Pulley device. 2,285,791; June 9.
Austin, Harold R., South Norwalk, Conn., assignor to The M. W. Kellogg Co., New York, N. Y. Lining metal articles. 2,285,554; June 9.
Auto Research Corporation. (See Bijur, Joseph and G.)
Automatic Devices Corporation. (See Cohen, Joseph H., assignor.)
Automatic Products Company. (See Johnson, R. W., and McCarty, assignors.)
Babcock & Wilcox Company, The. (See Kerr, Howard J., assignor.)
Bacon, Kenneth D. (See Cummins, C. F., and Bacon.)
Bahr, Harry J., Grand Island, Nebr. Copy rack. 2,286,048; June 9.
Baier, Otto. (See Schwartz, H-F., and Baier.)
Bailey, Emerson D., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Fractional wave films and polarizing systems containing them. 2,285,792; June 9.
Bailey Meter Company. (See Gorrie, Harvard H., assignor.)
Bailey, Ralph H. (See Corkery, F. W., and Bailey.)
Baker, Joseph A., Toronto, Ontario, Canada, assignor to Baker Perkins, Inc., Saginaw, Mich. Agitating and flow controlling means for bake oven atmosphere. 2,286,049; June 9.
Baker, Joseph L., Langhorne Manor, Pa. Loom. 2,285,793; June 9.
Baker Perkins, Inc. (See Baker, Joseph A., assignor.)
Baker, Robin, Lockney, and J. C. Fleming, Lubbock, Tex. Butane system. 2,286,050; June 9.
Baldwin Company, The. (See Knoblaugh, Armand F., assignor.)
Ball, Bernard A., Smethport, Pa. Tenpin setting apparatus. 2,285,642; June 9.
Balton, James, assignor to Maryland Baking Company, Inc., Baltimore, Md. Cone jacket applying machine. 2,286,165; June 9.
Barksdale, Jelks, New York, N. Y., and W. W. Plechner, Metuchen, N. J., assignors to National Lead Company, New York, N. Y. Production of titanium dioxide. 2,285,485; June 9.
Barksdale, Jelks, New York, N. Y., and W. W. Plechner, Metuchen, N. J., assignors to National Lead Company, New York, N. Y. Preparation of titanium dioxide pigments. 2,285,486; June 9.
Barney, Harold L., Leonia, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Control circuits. 2,285,794; June 9.
Barricelli, Domenico, Genoa, Italy. Lifeboat davit operating by gravity. 2,285,400; June 9.
Barth, Edith F., assignor to M. Bergmann, New York, N. Y. Hairpin. 2,285,555; June 9.
Bartholomäi, Alfred, Werchlaube, Lucerne, Switzerland. Ventilating installation in tunnels. 2,285,387; June 9.
Bassick Company, The. (See Herold, Walter F., assignor.)
Batchelder, Augustus H., Berkeley, assignor to Standard Oil Company of California, San Francisco, Calif. Solvent extraction of glycerides. 2,285,795; June 9.
Bates, John R., Swarthmore, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Controlling atmosphere within reaction equipment. 2,285,401; June 9.
Batie, Joseph E., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Method of and apparatus for producing sponge iron. 2,285,487; June 9.

Batten, Wendell B., East McKeesport, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Vapor electric device. 2,285,556; June 9.
Battle, John, Scranton, Pa. Fountain brush. 2,286,051; June 9.
Beardow, George M., Purchase, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Gaseous discharge device. 2,285,796; June 9.
Beaver, Charles J., Bowdon, and E. L. Davey, Timperley, assignors to W. T. Glover & Company Limited, Manchester, England. Electric cable. 2,286,052; June 9.
Beck, William W., Wilmington, and C. H. Hamblet, Gordon Heights, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Crystallization of hydroxycarboxylic acid. 2,285,886; June 9.
Becker, Daniel B., St. Paul, Minn. Mechanical hand. 2,285,885; June 9.
Beiersdorf, Hans, Berlin-Dahlem, K. Haese, Berlin-Grunewald, and O. Müller, Berlin-Siemensstadt, Germany, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Arc chute for electric circuit breakers. 2,285,643; June 9.
Bell & Howell Company, The. (See Bernzott, Hugo, assignor.)
Bell Telephone Laboratories, Incorporated. (See Arlt, Herbert G., assignor.)
Bell Telephone Laboratories, Incorporated. (See Barney, Harold L., assignor.)
Bell Telephone Laboratories, Incorporated. (See Beardow, George M., assignor.)
Bell Telephone Laboratories, Incorporated. (See Bruce, Edmond, assignor.)
Bell Telephone Laboratories, Incorporated. (See Davis, R. C., and Dehn, assignors.)
Bell Telephone Laboratories, Incorporated. (See De Monte, Robert W., assignor.)
Bell Telephone Laboratories, Incorporated. (See Dudley, Homer W., assignor.)
Bell Telephone Laboratories, Incorporated. (See Harley, Joseph J., assignor.)
Bell Telephone Laboratories, Incorporated. (See Hickman, Clarence N., assignor.)
Bell Telephone Laboratories, Incorporated. (See Holden, William H. T., assignor.)
Bell Telephone Laboratories, Incorporated. (See Holden, W. H. T., Hubbard and Martin, assignors.)
Bell Telephone Laboratories, Incorporated. (See Kater, Joseph A., assignor.)
Bell Telephone Laboratories, Incorporated. (See King, Gerald V., assignor.)
Bell Telephone Laboratories, Incorporated. (See Lamberty, Frederick R., assignor.)
Bell Telephone Laboratories, Incorporated. (See Logan, Mason A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Melhose, Alfred E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Perkins, Edwin H., assignor.)
Bellefontaine, August and H. Bernard, Krefeld-Uerdingen, and A. Sieberg, Krefeld-Bockum, Germany. Resinous materials. 2,285,797; June 9.
Benander, George B., Oaklawn, assignor to Monowatt Electrical Corporation, Providence, R. I. Push button circuit closer. 2,285,887; June 9.
Benard, Jacques A. V., Paris, France. Adjusting system for field glasses. 2,285,388; June 9.
Bendix Aviation Corporation. (See Allen, Joseph W., assignor.)
Bendix Aviation Corporation. (See Hurley, Roy T., assignor.)
Benjamin Electric Mfg. Company. (See Leinen, Arthur P., assignor.)
Bennett, Willard H., Newark, Ohio, assignor to Slayter Electronic Corporation. Rectification system. 2,285,402; June 9.
Benning, Anthony F. (See Downing, F. B., Benning and Johnson.)
Bentley Engineering Company, The. (See Wainwright, Carlyle H., assignor.)
Benton, Roy H., South St. Paul, Minn. Bait retainer. 2,285,888; June 9.
Berglund, Charles V., assignor to Hydraulic Brake Company, Detroit, Mich. Fluid pressure system. 2,285,557; June 9.
Bergmann, Marco. (See Barth, Edith F., assignor.)
Bergmann, Richard F. (See Jordan, L. J., Bergmann, and Burkholder.)
Bergtold, Fritz, Munich, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Adjustable inductance device. 2,285,798; June 9.
Bernard, David G., assignor to The Goss Printing Press Company, Chicago, Ill. Web roll feeding mechanism. 2,285,488; June 9.
Bernard, Hanns. (See Bellefontaine, A., Bernard and Sieberg.)
Bernzott, Hugo, assignor to The Bell & Howell Company, Chicago, Ill. Viewing device. 2,285,644; June 9.
Best, Frank E., Indianapolis, Ind. Dynamic rectifier. 2,285,403; June 9.
Best, Frank E., Indianapolis, Ind. Dynamically balancing rotary machine parts. 2,285,404; June 9.
Best, Frank E., Indianapolis, Ind. Dynamic rectifier. 2,285,405; June 9.
Best, Frank E., Indianapolis, Ind. High velocity blower. 2,285,799; June 9.
Best, Frank E., Indianapolis, Ind. Roller bearing. 2,285,800; June 9.
Bieber, Clarence G., Huntington, W. Va., assignor to The International Nickel Company, Inc., New York, N. Y. Permanent magnet. 2,285,406; June 9.
Bijur, George, executor. (See Bijur, Joseph and G.)
Bijur, Joseph, deceased, by G. Bijur, New York, N. Y., executor, assignor to Auto Research Corporation. Lubrication. 2,285,407; June 9.
Bisset, William, Port Hope, Ontario, Canada, assignor, by mesne assignments, to Mathews Conveyer Company, Ellwood City, Pa. Loading and unloading conveyer apparatus. 2,285,558; June 9.
Blair, Clyde H., Marion, Ohio. Railroad crossing. 2,285,559; June 9.
Blair, Homer E., et al. (See Scott, John H., assignor.)
Blanchard, Benjamin B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Fastening inserting machine. 2,285,489; June 9.
Blanchard, Lloyd M., Girard, Kans. Ground anchor or deadman. 2,285,889; June 9.
Bland, James R. (See Kells, L. M., Kern and Bland.)
Blauvelt, Frederic D., Upper Montclair, N. J. Headlight. 2,285,408; June 9.
Beltz, Edward, Lexington, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Thermostat. 2,286,053; June 9.
Blockson Chemical Co. (See Metziger, M., and Long, assignors.)
Blosser, Herman G., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Stationary contact. 2,285,890; June 9.
Blosser, Herman G., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signal control circuit. 2,285,891; June 9.
Blue, Edward B. (See Kopp, W. R., and Blue.)
Bohannan, Robert S., assignor to Toledo Scale Company, Toledo, Ohio. Hydraulic weighing scale. 2,285,892; June 9.
Boisselier, Earl D., Glen Ellyn, assignor, by mesne assignments, to Earl Products Company, Chicago, Ill. Motor assembly. 2,286,176; June 9.
Bonanno, Joseph L., Maplewood, N. J., assignor to The Lionel Corporation, New York, N. Y. Electromagnetic device. 2,285,560; June 9.
Bonanno, Joseph L., Maplewood, N. J., assignor to The Lionel Corporation, New York, N. Y. Electromagnetically operated reciprocating mechanism. 2,285,645; June 9.
Boosey, Edward W. N., Detroit, Mich. Intake manifold for oil interceptors. 2,285,893; June 9.
Borg-Warner Corporation. (See Swenson, C. E., and Anderson, assignors.)
Bostwick, Henry C., assignor to The Akron Standard Mold Company, Akron, Ohio. Press. 2,285,389; June 9.
Botuck, Eli, New York, N. Y. Switch manipulating means. 2,285,561; June 9.
Bousquet, Euclid W., and E. K. Ellingboe, Wilmington, and H. G. Guy, Newark, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Pest control. 2,285,409; June 9.
Bousquet, Euclid W., Wilmington, and H. G. Guy, Newark, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Pest control. 2,285,410; June 9.
Bowan, Walter J. (See Mueller, F. H., Bowan, and Mason.)
Bowering, Henry G., Needham, assignor to Kinney Manufacturing Company, Jamaica Plain, Mass. Rotary pump or the like. 2,286,031; June 9.
Bradley, Anson K., Assignor to Morgan Construction Company, Worcester, Mass. Gas producer plow arm latch. 2,286,054; June 9.
Braly, Kay R. (See Pennypacker, Edward J., assignor.)
Brandt, Robert L., New York, N. Y., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. System for manufacturing sulphonic acids. 2,285,390; June 9.
Brass Goods Manufacturing Co. (See Maloney, Frank H., assignor.)
Brent, Roy H. (See Remmel, A. W., and Brent.)
Brewster, Myles W., United States Army. Clothes hanger support. 2,285,411; June 9.
Briggs Manufacturing Company. (See Platz, Henry T., assignor.)
Brittell, Coy E., Chambers, Nebr. Conveyer apron. 2,286,055; June 9.
Britton, Edgar C., G. H. Coleman, and J. W. Zemba, assignors to The Dow Chemical Company, Midland, Mich. Styrene copolymer compositions. 2,285,562; June 9.
Britton, Edgar C., and J. E. Livak, assignors to The Dow Chemical Company, Midland, Mich. Substituted dihydroxy-diphenyls. 2,285,563; June 9.
Broderick, Aubrey E., South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Felted article and its production. 2,285,490; June 9.
Brooke Engineering Company. (See Brooke, G. A., Jr., and Chambers, assignors.)
Brooke, George A., Jr., Philadelphia, and C. C. Chambers, Lansdowne, assignors to Brooke Engineering Company, Inc., Philadelphia, Pa. Combustion control. 2,285,564; June 9.

Brooks, Arland O., Kimmsick, Mo., assignor to National Lead Company, New York, N. Y. Filter septum supporting means. 2,285,894; June 9.
Brown, Frank H. (See Knutson, Alfred W., assignor.)
Brown, George M., Schenectady, N. Y., assignor to General Electric Company. Automatic amplification control. 2,285,895; June 9.
Brown, George M., Scotia, N. Y., assignor to General Electric Company. Automatic amplification control. 2,285,896; June 9.
Brown, William B., Westmont, N. J., assignor, by mesne assignments, to Allied Chemical & Dye Corporation. Dehydration of phenols. 2,286,056; June 9.
Brownstein, Louis, assignor to I. Gerber, Brooklyn, N. Y. Combined glove turning and pressing machine. 2,286,057; June 9.
Brownstein, Louis, assignor to I. Gerber, Brooklyn, N. Y. Glove turning machine. 2,286,058; June 9.
Brownstein, Louis, assignor to I. Gerber, Brooklyn, N. Y. Machine for turning and pressing gloves. 2,286,059; June 9.
Bruce, Edmond, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Directive antenna. 2,285,565; June 9.
Brunhoff, Henry E., Wyoming, assignor to The Brunhoff Manufacturing Company, Cincinnati, Ohio. Bottle carrier. 2,285,566; June 9.
Brunhoff Manufacturing Company, The. (See Brunhoff, Henry E., assignor.)
Brush Development Company, The. (See Kornei, Otto, assignor.)
Bucknam, James H., Cranford, and A. J. Miller, Garwood, N. J., assignors to The Linde Air Products Company. Apparatus for conditioning metal bodies. 2,285,519; June 9.
Budd, Edward G., Manufacturing Company. (See Ledwinka, J., and Horton, assignors.)
Budd Manufacturing Company. (See Ledwinka, Joseph, assignor.)
Buenger, Edward F., Oak Park, and C. V. St. Louis, assignors to Wilson-Jones Company, Chicago, Ill. Loose-leaf binder. 2,286,060; June 9.
Bulldog Electric Products Company. (See Frank, W. H., and Messing, assignors.)
Burke & James, Inc. (See Drucker, Albert, assignor.)
Burkholder, Alden H. (See Jordan, L. J., Bergmann, and Burkholder.)
Burnet, Joseph H., Glen Ridge, N. J. Container carrier and display means. 2,285,801; June 9.
Burns, Cloyd E., Stamford, Conn., assignor to Schick Incorporated. Hair receiver for dry shavers. 2,286,061; June 9.
Byrne, Paul F., West Caldwell, N. J., assignor to International Telephone & Radio Manufacturing Corporation. Short wave transmitter. 2,285,851; June 9.
Byron Jackson Co. (See Hoover, Valno A., assignor.)
C. B. Lumber & Shingle Company. (See Wilde, Raymond A., assignor.)
C-O-Two Fire Equipment Company. (See Cahusac, C. N., and Allen, assignors.)
Cahusac, Clarence N., Newark, and F. B. Allen, Verona, assignors to C-O-Two Fire Equipment Company, Newark, N. J. Condensate trap for suction conduits. 2,285,802; June 9.
Caldwell, Clarence H., Oak Park, Ill. Atomizer type window cleaning appliance. 2,285,412; June 9.
Cameron, Donald G. (See Andersen, H. H., and Cameron.)
Cameron Machine Company. (See Stocker, William M., assignor.)
Cammack, Joseph W., El Dorado, Ark. Coupling device. 2,285,803; June 9.
Campbell, Oliver F., Whiting, and H. L. Pelzer, Chesterton, Ind., assignors to Sinclair Refining Company, New York, N. Y. Regeneration of catalytic materials and apparatus therefor. 2,285,804; June 9.
Campbell, Walter E., Wichita, Kans. Acute angle gauge for saw tables. 2,285,897; June 9.
Cannon, John W., River Forest, Ill., assignor to Morton Manufacturing Company, Chicago, Ill. Cabinet. 2,285,899; June 9.
Cantrell, Peter T. (See Smith, Alton P., assignor.)
Carbide and Carbon Chemicals Corporation. (See Broderick, Aubrey E., assignor.)
Carbide and Carbon Chemicals Corporation. (See Doolittle, Arthur K., assignor.)
Carlisle, Thomas O. (See Davis, N. L., Drinkwater, and Carlisle.)
Carman, Everett F. (See Gessler, A. E., Carman, and Engelhart.)
Carmody, Michael A., assignor of one-half to H. Schaefer, Jr., Buffalo, N. Y. Automatic coupling means for tractor semitrailer combinations. 2,286,166; June 9.
Carr-Lowrey Glass Co. (See Garwood, C. B., and Schiehr, assignors.)
Carroll, Arthur B., Norfolk, Va. Device for removing corn from the cob. 2,285,567; June 9.
Carswell, Frank L., Kansas City, Mo. Aggregate mixing machine. 2,285,765; June 9.
Caselli, Albert V., Oakland, and A. C. Nixon, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Process for extraction. 2,285,898; June 9.
Celanese Corporation of America. (See Dreyfus, Henry, assignor.)
Celanese Corporation of America. (See Seymour, G. W., and White, assignors.)
Chain Belt Company. (See Shafer, Samuel, Jr., assignor.)
Chain Store Products Corporation. (See Hermsdorf, Walter H., assignor.)
Chambers, Carl C. (See Brooke, George A., Jr., and Chambers.)
Chapman, Mary M., Cleveland Heights, Ohio, assignor to Steel Fabricators Co. Supporting device for infants. 2,285,900; June 9.
Chenoweth, Albert J., Elkins, W. Va. Material handling scaffold. 2,285,901; June 9.
Cherry-Burrel Corporation. (See Quinn, Christopher D., assignor.)
Chicago Pneumatic Tool Company. (See Amtsberg, Lester A., assignor.)
Chicago Pneumatic Tool Company. (See O'Farrell, Matthew, assignor.)
Chicago Telephone Supply Company. (See Schellenger, Newton C., assignor.)
Chirelstein, Charles, Newark, N. J. Starter switch. 2,285,805; June 9.
Christmann, Ludwig J., Bronxville, N. Y., and A. G. Houpt, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Treatment of black liquor soap and the like.
Clark, Arthur H., Oklahoma City, Okla. Shoe display rack. 2,285,491; June 9.
Clark, Frederick J., assignor to Eastman Machine Company, Buffalo, N. Y. Machine for perforating cloth and other materials. 2,285,492; June 9.
Clark, Harold W., assignor to Steel Sanitary Company, Alliance, Ohio. Apparatus for making metallic receptacles. 2,285,903; June 9.
Clark, Warren A., Oakland, Calif. Box cover. 2,285,391; June 9.
Clarke, Clarence M. (See Meyer, H. C. A., and Clarke.)
Clickner, Earle D., assignor to Shakespeare Company, Kalamazoo, Mich. Fishing reel. 2,285,493; June 9.
Cline, Earl E., assignor to Mueller Co., Decatur, Ill. Pipe line stopper. 2,285,392; June 9.
Cline, Earl E., assignor to Mueller Co., Decatur, Ill. Pipe line stopper. 2,285,393; June 9.
Clocker, Edwin T., Bethlehem, Pa. Coating composition and process. 2,285,646; June 9.
Close, Wilmot S., Mountain Lakes, N. J. Preventing fraudulent alteration of documents. 2,285,806; June 9.
Cloutier, Gerald O., assignor to Old Colony Envelope Company, Westfield, Mass. Envelope. 2,285,807; June 9.
Cobden, George, Chicago, Ill. Counting machine. 2,285,568; June 9.
Coe, Ben. (See Lee, Troy H., assignor.)
Coffin, Richard H. (See Powe, Frank M., assignor.)
Cohen, Joseph H., assignor to Automatic Devices Corporation, Bridgeport, Conn. Cigar lighter. 2,285,904; June 9.
Coke, Hugh W., Juneau, Territory of Alaska. Flotation method. 2,285,394; June 9.
Cole Electric Products Co. Inc. (See Jensen, Helge, assignor.)
Cole, James W., Dallas, Tex. Spine stretcher. 2,285,494; June 9.
Coleman, George H., Iowa City, Iowa. Manufacture of pyrrolidines. 2,285,413; June 9.
Coleman, Gerald H. (See Britton, E. C., Coleman, and Zemba.)
Coleman Lamp and Stove Company. (See Tullis, Boyd W., assignor.)
Colgate-Palmolive-Peet Company. (See Brandt, Robert L., assignor.)
Colgate-Palmolive-Peet Company. (See Harris, Benjamin R., assignor.)
Collins, Arthur A., Cedar Rapids, Iowa. Control system and apparatus. 2,285,414; June 9.
Collins, Arthur A., Cedar Rapids, Iowa. Motor control system. 2,285,415; June 9.
Colonial Radio Corporation. (See Cutting, Fulton, assignor.)
Colonial Radio Corporation. (See Forster, Harry L., assignor.)
Condo, Fred E., and C. J. Krister, Cleveland, Ohio, and W. E. Lundquist, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Copolymerizing maleic anhydride and polymerizable vinyl compounds. 2,286,062; June 9.
Condon, Robert S., Rutland, Vt. Transmission or the like. 2,286,063; June 9.
Conn, C. G., Ltd. (See Young, R. W., and Loomis, assignors.)
Continental Can Company. (See Minaker, Herbert L., assignor.)
Continental Can Company, Inc. (See Pearson, Paul E., assignor.)
Continental Can Company. (See Punte, William F., assignor.)
Continental Gin Company. (See Deems, F. E., MacIntyre, Greeley, and Fisk, assignors.)
Cook, Pearl M., Seattle, Wash. Pan greasing device. 2,285,495; June 9.
Copson, Harry R. (See Wesley, A., and Copson.)

Cork, Edward C., Ealing, London, and J. L. Pawsey, Ickenham, assignors to Electric & Musical Industries Limited, Hayes, Middlesex, England. Aerial or aerial system. 2,285,395; June 9.

Corkery, Frank W., Crafton, and R. H. Bailey, Clairton, Pa., assignors to Pennsylvania Industrial Chemical Corporation. Coumarone-indene resin. 2,285,416; June 9.

Corkery, Frank W., Crafton, Pa., assignor to Pennsylvania Industrial Chemical Corporation. Coumarone-indene resin. 2,285,417; June 9.

Corn Products Refining Company. (See Struken, Oswald C., assignor.)

Cornwell, Ralph T. K., and Charles M. Rosser, assignors to Sylvania Industrial Corporation, Fredericksburg, Va. Water-swelling nonfibrous pellicle with a waterproof coating. 2,285,852; June 9.

Cowin, Herbert W., Westfield, N. J., assignor to The Linde Air Products Company. Blowpipe. 2,285,496; June 9.

Coxe, Charles D., Bridgeport, Conn., assignor to Remington Arms Company, Inc. Ammunition. 2,286,064; June 9.

Craft, Mary F. (See Joy, Septer S., assignor.)

Crawford, Charles A., et al. (See Joy, Septer S., assignor.)

Crosley Corporation, The. (See D'Olive, C. R., and Money, assignors.)

Crosley Corporation, The. (See Money, Roland H., assignor.)

Crouse-Hinds Company. (See Mackall, Kenneth W., assignor.)

Crowley, John C., Cleveland Heights, assignor to The Dill Manufacturing Company, Cleveland, Ohio. Tire inflator. 2,285,569; June 9.

Cujak, Albin B. (See Marsh, F. E., and Schetski, assignors.)

Cumming, William G., assignor to Granite City Tool Company, Barre, Vt. Stone polishing machine. 2,285,808; June 9.

Cummins, Corliss F., and K. D. Bacon, assignors to The Dow Chemical Company, Midland, Mich. Pressure-sensitive adhesives. 2,285,570; June 9.

Cunningham, Kenneth M., Decatur, and A. Santomartino, Chicago, Ill., assignors to Fuelmaster, Inc. Apparatus for forming fuel charges for internal combustion engines. 2,285,905; June 9.

Cuno, Charles W., Wilmington, assignor to The Lehon Company, Chicago, Ill. Method and apparatus for forming tubular articles. 2,285,497; June 9.

Cutler-Hammer, Inc. (See Hunter, Richard B., assignor.)

Cutting, Fulton, New York, N. Y., assignor of one-half to Colonial Radio Corporation, Buffalo, N. Y., and one-half to The F. W. Sickles Company, Springfield, Mass. Image wave suppressor. 2,285,766; June 9.

Dahlstrom, Arvid. (See Rockola, David C., and Dahlstrom.)

Dajoz, Constante C., and R. E. Dubois, Buenos Aires, Argentina. Dispensing device. 2,286,065; June 9.

D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Condensation products of a urea, an aliphatic aldehyde and a chlorinated acetamide. 2,285,418; June 9.

Dalinda, Joseph Z. (See Dunajeff, Leonid A., assignor.)

Danforth, Joseph D., and C. L. Thomas, assignors to Universal Oil Products Company, Chicago, Ill. Manufacture of catalysts. 2,285,396; June 9.

Darash, Nicholas P., assignor to The Warner & Swasey Company, Cleveland, Ohio. Machine tool. 2,285,571; June 9.

Darrah, Thomas W. (See Lutz, E. R., Allen and Darrah.)

Dawihl, Walther, Kohlhasenbruck, near Berlin, Germany, assignor to General Electric Company. Cutting and grinding tool. 2,285,909; June 9.

Davey, Edward L. (See Beaver, C. J., and Davey.)

David, Bruce W., Cleveland Heights, Ohio. Optical measuring device. 2,285,498; June 9.

Davio, Joseph C., Agawam, Mass. Billfold. 2,285,906; June 9.

Davis, Clarke F., Short Hills, N. J., assignor to American Cyanamid & Chemical Corporation, New York, N. Y. Fabricated building unit and construction embodying the same. 2,286,167; June 9.

Davis, Frank B., Cleveland Heights, assignor to The National Screw & Manufacturing Company, Cleveland, Ohio. Assembling machine for screws and washers. 2,286,066; June 9.

Davis, Milton K., Dallas, Tex. Sign. 2,285,907; June 9.

Davis, Nelson L., Chicago, Ill., J. D. S. Drinkwater, Stockport England, and T. O. Carlisle, Chicago, assignors to Link-Belt Company, Chicago, Ill. Trough washer. 2,286,067; June 9.

Davis, Richard C., and J. W. Dehn, Great Neck, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sender control system. 2,285,908; June 9.

Davis, Robert F., Washington, D. C., assignor to Well Surveys, Incorporated, Tulsa, Okla. Well surveying method and apparatus. 2,285,809; June 9.

De Buigne, Frank, Ferndale, Mich. Torque converter. 2,285,910; June 9.

Dedicated to the free use of the People in the territory of the United States. (See Sullivan, W. N., and Goodhue, assignors.)

Deems, Frank E., R. Y. MacIntyre, M. S. Greeley and G. R. Fisk, Birmingham, Ala., assignors to Continental Gin Company. Belt conveyer supporting roll. 2,285,647; June 9.

De Hart, William A., Teaneck, N. J., assignor to Kamket Corporation, New York, N. Y. Paper cutting machine. 2,285,911; June 9.

Dehn, Joseph W. (See Davis, R. C., and Dehn.)

De Monte, Robert W., Glen Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric unbalance indicator. 2,285,912; June 9.

Den Hertog, Martinus, Antwerp, Belgium, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone set circuit. 2,286,069; June 9.

Derrah, Robert V., Beverly Hills, Calif. Modulating control device. 2,285,913; June 9.

Deskey, Donald, assignor to United States Plywood Corporation, New York, N. Y. Plywood panel. 2,286,068; June 9.

Dewar, George, Coventry, assignor to The General Electric Company Limited, London, England. Automatic switch of the type used in telephone systems. 2,285,694; June 9.

Di Cesare, Nicholas P., Kohler, Wis. Coating mechanism for wheels. 2,285,695; June 9.

Dickey, Joseph B., Rochester, N. Y. and A. R. Gray, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Aliphatic amines. 2,285,419; June 9.

Dietsch, Carl G. F., Leonia, N. J., assignor to Radio Corporation of America. Variable condenser. 2,285,499; June 9.

Dill Manufacturing Company, The. (See Crowley, John C., assignor.)

Dillenbach, Daniel S., Hastings, Nebr. Drive mechanism for steam or explosive engines. 2,285,572; June 9.

Dillon, William C., assignor to W. C. Dillon & Company, Inc., Chicago, Ill. Dynamometer. 2,285,500; June 9.

Dillon, W. C., & Company. (See Dillon, William C., assignor.)

Dixon, Alfred L., Western Springs, and R. P. Lutz, Oak Park, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Manufacture of molding compounds. 2,285,501; June 9.

Doe, Claude R., Bellrose, N. Y., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del. Bottle cap. 2,286,070; June 9.

D'Olive, Charles R., and R. H. Money, assignors to The Crosley Corporation, Cincinnati, Ohio. Refrigerator. 2,285,701; June 9.

Donahoe, John A. (See Kruckewitt, J., and Donahoe.)

Doolittle, Arthur K., South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Vinyl resin plastic composition. 2,285,420; June 9.

Dow Chemical Company, The. (See Britton, E. C., Coleman and Zemba, assignors.)

Dow Chemical Company, The. (See Britton, E. C., and Livak, assignors.)

Dow Chemical Company, The. (See Cummins, C. F., and Bacon, assignors.)

Dow Chemical Company, The. (See McDonald, John C., assignor.)

Dow Chemical Company, The. (See Taylor, F. L., and Livak, assignors.)

Downing, Frederick B., Carneys Point, A. F. Benning, Penns Grove, and F. W. Johnson, Pennsville, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Lubrication. 2,285,853; June 9.

Downing, Frederick B., Carneys Point, A. F. Benning, Penns Grove, and F. W. Johnson, Pennsville, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Lubrication. 2,285,854; June 9.

Downing, Frederick B., Carneys Point, A. F. Benning, Penns Grove, and F. W. Johnson, Pennsville, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Lubrication. 2,285,855; June 9.

Downingtown Manufacturing Company. (See Huber, Charles J., assignor.)

Dragan, Joseph and N. J. Dragan, McKees Rocks, Pa. Lifting device. 2,286,071; June 9.

Dragan, Nickolas J. (See Dragan, Joseph and N. J.)

Dreyfus, Henry, London, England, assignor to Celanese Corporation of America. Manufacture of tubes and other hollow articles. 2,285,502; June 9.

Drinkwater, James D. S. (See Davis, N. L., Drinkwater, and Carlisle.)

Drossbach, Otto, Ludwigshafen-on-the-Rhine, Germany, assignor to E. I. du Pont de Nemours & Company Inc., Wilmington, Del. Oxidation of cyclohexanol. 2,285,914; June 9.

Drucker, Albert, assignor to Burke & James, Inc., Chicago, Ill. Lens mounting. 2,285,768; June 9.

Dubay, Alphonse A., Van Buren, Maine. Hull construction. 2,285,959; June 9.

Dubois, René E. (See Dajoz, C. C., and Dubois.)

Dubs, Samuel F., assignor to Morris P. Kirk & Son, Inc., Los Angeles, Calif. Zinc chloride recovery from galvanizer's sal-ammoniac skimmings. 2,285,573; June 9.

Dudley, Homer W., Garden City, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Treatment of speech waves for transmission or recording. 2,286,072; June 9.

Dunajeff, Leonid A., assignor to Joseph Z. Dalinda, New York, N. Y. Aerial bomb. 2,285,574; June 9.

Dunmore, Francis W., Washington, D. C., assignor to Government of the United States, as represented by the Secretary of Commerce, and his successors in office. Humidity variable resistance. 2,285,421; June 9.

Dunn, Clarence L., Berkeley, Calif. Desulphurizing mineral oil distillates. 2,285,696; June 9.

Dunn, Joseph A. (See White, J. R., and Dunn.)

Du Pont, E. I., de Nemours & Company. (See Alfthan, Johannes, assignor.)

Du Pont, E. I., de Nemours & Company. (See Bailey, Emerson D., assignor.)

Du Pont, E. I., de Nemour & Company. (See Beck, William W., and Hamblet, assignors.)

Du Pont, E. I., de Nemours & Company. (See Bousquet, E. W., Ellingboe, and Guy, assignors.)

Du Pont, E. I., de Nemours & Company. (See Bousquet, E. W., and Guy, assignors.)

Du Pont, E. I., de Nemours & Company. (See Condo, F. E., Krister, and Lundquist, assignors.)

Du Pont, E. I., de Nemours & Company. (See Downing, F. B., Benning and Johnson, assignors.)

Du Pont, E. I., de Nemours & Company Inc. (See Drossbach, Otto, assignor.)

Du Pont, E. I., de Nemours & Company. (See Gresham, William F., assignor.)

Du Pont, E. I., de Nemours & Company. (See Hardy, Vernal R., assignor.)

Du Pont, E. I., de Nemours & Company. (See Johnson, Charles R., assignor.)

Du Pont, E. I., de Nemours & Company. (See Loder, Donald J., assignor.)

Du Pont, E. I., de Nemours & Company. (See Sveda, Michael, assignor.)

Durdin, Augustus C., III, Niles Center, Ill. Sewage treatment method and apparatus. 2,285,697; June 9.

Duro Metal Products Company. (See Hedgpeth, Theron L., assignor.)

Dutton, Charles F., Rocky River, Ohio. Projecting lantern. 2,285,915; June 9.

Earl Products Company. (See Boisselier, Earl D., assignor.)

Eastman Kodak Company. (See Dickey, J. B., and Gray, assignors.)

Eastman Machine Company. (See Clark, Frederick J., assignor.)

Easton, George. (See Woods, Andrew, assignor.)

Eckhard, William K., Newark, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y. Sheet registering mechanism for printing machines. 2,286,032; June 9.

Edick, Harry L., and C. F. Wickwire, assignors to Wickwire Brothers, Cortland, N. Y. Making coated wire fabric. 2,286,073; June 9.

Edison General Electric Appliance Company. (See Vogel, O. G., and Navias, assignors.)

Egger, Frederick L., and E. C. Snow, Ilion, N. Y., assignors to Remington Arms Company, Inc. Machine stop. 2,286,074; June 9.

Elane, Halvor O., Washington Island, Wis. Automatic firearm. 2,285,503; June 9.

Eisner, Harry, assignor to General Products Corporation, Union Springs, N. Y. Electric switch. 2,285,916; June 9.

Elbertz, Frank V., Lake Orion, Mich. Bevel gear blank and producing the same. 2,285,575; June 3.

Electric & Musical Industries Limited. (See Cork, E. C., and Pawsey, assignors.)

Electro Manganese Corporation. (See Manteli, Charles L., assignor.)

Ellingboe, Ellsworth K. (See Bousquet, E. W., Ellingboe and Guy.)

Ellis-Foster Company. (See Rust, John B., assignor.)

Else, Harry D., Toledo, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Spinning device. 2,285,648; June 9.

Emmer, Mike H., Los Angeles, Calif. Coffee bottle supporting plate and handle. 2,285,698; June 9.

Engelhart, Louis F. (See Gessler, A. E., Carman, and Engelhart.)

Epstein, Albert K. and B. R. Harris, Chicago, Ill. Emulsion. 2,285,422; June 9.

Eslinger, Russel L., assignor of thirty-five one-hundredths to T. C. Zerbe, Harrisburg, and thirty one-hundredths to A. A. Graybill, Steelton, Pa. Brake operating mechanism. 2,285,810; June 9.

Esser, Wilhelm, Bergedorf, near Hamburg, Germany. Sound absorbing material. 2,285,423; June 9.

Evans, Franklin J., Hazleton, Pa., assignor to Oliver United Filters Incorporated, Oakland, Calif. Continuous filter. 2,285,649; June 9.

Evans, Walter R., Bartlesville, Okla., assignor to Phillips Petroleum Company. Thermit welding apparatus. 2,286,075; June 9.

Everest, Herbert A., and H. C. Jennings, Los Angeles, Calif. Balanced invalid wheel chair. 2,285,699; June 9.

Everitt, Philip F., Ilford, assignor of two-thirds to A. J. Hughes, Chigwell Row, and Henry Hughes & Sons, Limited, London, England. Evaluating and indicating the average value of successive time observations. 2,285,856; June 9.

Ewing, Samuel C., Scotia, N. Y., assignor to General Electric Company. Control system for synchronous motors. 2,285,917; June 9.

Fabian, Sigmond, Chicago, Ill. Slicer. 2,286,177; June 9.

Faris, Harold P., Philadelphia, Pa., and D. W. Yochum and R. B. Logan, Trenton, N. J., assignors to National Automotive Fibres, Inc., Detroit, Mich. Apparatus for making carpets. 2,285,650; June 9.

Farmer, Paul M., Maplewood, N. J., assignor to American District Telegraph Company, New York, N. Y. Electric switch. 2,286,077; June 9.

Farnsworth, Philo T., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Electron control device. 2,286,076; June 9.

Farnsworth Television and Radio Corporation. (See Farnsworth, Philo T., assignor.)

Farrar, James F., Salen Depot, N. H. Micrometer divider. 2,285,918; June 9.

Fechheimer, Carl J., Milwaukee, Wis. Dynamoelectric machine. 2,285,960; June 9.

Feldlinka Silk Co. (See Martel, Edmour O., Jr., assignor.)

Feldman, Abraham G., assignor to Storkline Furniture Corporation, Chicago, Ill. Baby carriage. 2,285,700; June 9.

Feldman, Henry, Brooklyn, N. Y. Blackout device. 2,285,919; June 9.

Fenner, Eckard, Berlin, assignor to Süddeutsche Apparate-Fabrik G. m. b. H., Nurnberg, Germany. Manufacturing foillike layers. 2,285,424; June 9.

Finch, James L., Patchogue, N. Y., assignor to Radio Corporation of America. Rectifier temperature control. 2,285,504; June 9.

Finch, James L., Patchogue, N. Y., assignor to Radio Corporation of America. Temperature control for rectifier tubes. 2,285,506; June 9.

Finley, Clarence D., Detroit, Mich. Piston ring and sealing means therefor. 2,285,961; June 9.

Fischer, Frederick K., Lansdowne, assignor to Westinghouse Electric & Manufacturing Company. East Pittsburgh, Pa. Multiple bundle vapor generator. 2,285,651; June 9.

Fisk, George R. (See Deems, F. E., MacIntyre, Greeley and Fisk.)

Fleming, James C. (See Baker, R., and Fleming.)

Flickinger, John J., Massillon, assignor of one-tenth to R. O. Morgan, Orrville, Ohio. Clutch. 2,285,652; June 9.

Flint, Hyland C., Royal Oak, and D. Fryer, assignors to Patent Sales, Inc., Detroit, Mich. Seat construction. 2,286,168; June 9.

Food Machinery Corporation. (See Kerr, Charles E., assignor.)

Food Machinery Corporation. (See Sharma, Jagan N., assignor.)

Food Machinery Corporation. (See Thompson, Albert R., assignor.)

Forss, Frithlof P., Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Portable power hammer. 2,285,702; June 9.

Forster, Harry L., assignor to Colonial Radio Corporation, Buffalo, N. Y. Sound reproducing system. 2,285,769; June 9.

Fort Howard Paper Company. (See Schwartz, Fred, assignor.)

Foster, Walter L., Whittier, Calif. Hydraulic brake mechanism. 2,285,703; June 9.

Foster Wheeler Corporation. (See Frisch, Martin, assignor.)

Foulkes, Thomas E., Ilford, England. Shop, bazaar, and the like. 2,285,962; June 9.

Fox, Eleanor, Stamford, Conn. Bed easel construction. 2,285,576; June 9.

Frank, George D., assignor to York Oil Burner Co., Inc., York, Pa. Ignition assembly. 2,285,704; June 9.

Frank, William H., and J. A. Messing, assignors to Bulldog Electric Products Company, Detroit, Mich. Circuit breaker. 2,285,770; June 9.

Franklin, John L., Atlanta, Ga. Announcing machine and system. 2,285,425; June 9.

Freeman, Walter R., Clayton, assignor to Wagner Electric Corporation, St. Louis, Mo. Oiling system for compressors. 2,285,426; June 9.

Frey, Charles N. (See Schultz, A. S., Atkin and Frey.)

Friden Calculating Machine Co. (See Friden, Carl M., assignor.)

Friden, Carl M., Oakland, Calif., assignor to Friden Calculating Machine Co., Inc. Calculating machine. 2,285,427; June 9.

Friedel, Jonas, Omaha, Nebr. Renewable broom. 2,285,705; June 9.

Frisbie, Marshall H., Hamden, assignor to The A. C. Gilbert Company, New Haven, Conn. Fan impeller. 2,285,428; June 9.

Frisch, Martin, assignor to Foster Wheeler Corporation, New York, N. Y. Pulverization. 2,285,429; June 9.

Frost, Marion E. (See Grout, M. C., and Frost.)

Fryer, Donald. (See Flint, H. C., and Fryer.)

Fuelmaster, Inc. (See Cunningham, K. M., and Santomartino, assignors.)

G & W Electric Specialty Co. (See Papp, Andrew E., assignor.)

Gaddis, Roy, Cedar Rapids, Iowa. Road scarifying device. 2,285,706; June 9.

Development Company, San Francisco, Calif. Polymerization of olefines with phosphoric acid catalyst. 2,285,920; June 9.

Gage, William P., Deer Park, Tex., assignor to Shell

Gallai-Hatchard, Marcel, assignor to Holland & Hannen and Cubitts Limited, London, England. Foaming or granulating molten material. 2,285,076; June 9.
Gangloff, Rene L., Lyon, France. Automatic machine for capsuling bottles. 2,286,079; June 9.
Garwood, Charles B., Linthicum Heights, and W. R. Schiehr, assignors to Carr-Lowrey Glass Co., Baltimore, Md. Making multiple containers. 2,285,707; June 9.
Gary, Clarence E., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Switch. 2,285,577; June 9.
Gary, Clarence E. (See Kintzing, R. T., von Mehren, and Garry.)
Gasoline Products Company. (See Nofsinger, C. W., and Jewell, assignors.)
Gautreau, Mitchell. (See Wood, E. F., and Gautreau.)
Gay, Arthur W., Akron, Ohio. Finning. 2,285,811; June 9.
Gay, Arthur W., Akron, Ohio. Apparatus for producing finned cylinder barrels. 2,285,812; June 9.
Gem Products, Incorporated. (See Kootz, Arthur C., assignor.)
General Aniline & Film Corporation. (See Muller, Wolf F., assignor.)
General Electric Company. (See Andersen, H. H., and Cameron, assignors.)
General Electric Company. (See Brown, George M., assignor.)
General Electric Company. (See D'Alello, Gaetano F., assignor.)
General Electric Company. (See Dawihl, Walther, assignor.)
General Electric Company. (See Dewar, George, assignor.)
General Electric Company. (See Ewing, Samuel C., assignor.)
General Electric Company. (See Grosse, Vitaly, assignor.)
General Electric Company. (See Hempel, Gerd, assignor.)
General Electric Company. (See Hemphill, Lawrence F., assignor.)
General Electric Company. (See Hultson, Robert R., assignor.)
General Electric Company. (See Keep, Otto A., assignor.)
General Electric Company. (See Otto, Harold M., assignor.)
General Electric Company. (See Pfalzgraff, Ross M., assignor.)
General Electric Company. (See Strang, Harold E., assignor.)
General Electric Company. (See Tuttle, Frank B., assignor.)
General Motors Corporation. (See Georgiev, A. M., and Koehly, assignors.)
General Motors Corporation. (See Geyer, Harvey D., assignor.)
General Motors Corporation. (See Thompson, Earl A., assignor.)
General Motors Corporation. (See Vulusek, Ladd J., assignor.)
General Motors Corporation. (See Woodling, George V., assignor.)
General Products Corporation. (See Elsner, Harry, assignor.)
Georgiev, Alexander M., and P. F. Koehly, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Electrolytic condenser. 2,286,081; June 9.
Gerber, Isidor. (See Brownstein, Louis, assignor.)
Geesler, Albert E., New York, N. Y., E. F. Carman, Dumont, N. J., and L. F. Engelhart, Rockville Centre, assignors to Interchemical Corporation, New York, N. Y. Lithographic ink. 2,285,430; June 9.
Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Enclosed electric switch. 2,286,033; June 9.
Geyer, Harvey D., and F. W. Sampson, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Freezing tray. 2,285,712; June 9.
Geyer, Harvey D., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Freezing tray. 2,286,080; June 9.
Gilbert, A. C., Company, The. (See Frisbie, Marshall H., assignor.)
Gilbert, A. C., Company, The. (See Jordan, Richard H., assignor.)
Gilliam, Harry F., Kansas City, Mo. Gummed paper tape machine. 2,285,507; June 9.
Gits, Joseph A., and Jules P. Gits, Chicago, Ill. Knob structure and making same. 2,285,968; June 9.
Gits, Jules P. (See Gits, Joseph A., and J. P.)
Glover, W. T., & Company Limited. (See Beaver, C. J., and Davey, assignors.)
Glynn, John H., assignor to Armour and Company, Chicago, Ill. Culture medium for the growth of microorganisms. 2,285,708; June 9.
Goodhue, Lyle D. (See Sullivan, W. N., and Goodhue.)
Goodman, Frank O., Chicago, Ill. Door. 2,286,062; June 9.
Goodman Manufacturing Company. (See Sloane, William W., assignor.)
Gordon, M. Martin, Chicago, Ill. Cosmetic matching device. 2,285,709; June 9.
Gornetski, Benjamin, Laplume, Pa. Roller screen. 2,286,083; June 9.
Gorrie, Harvard H., Cleveland Heights, Ohio, assignor to Bailey Meter Company. Control system. 2,285,578; June 9.
Goshaw, Irl R., Beverly Hills, Calif. Television and sound system. 2,285,509; June 9.
Goss Printing Press Company, The. (See Bernard, David G., assignor.)
Goss, Worth C., Seattle, Wash. Internally heated drier. 2,285,508; June 9.
Granberg Equipment Inc. (See McCoy, Thomas A., assignor.)
Granite City Tool Company. (See Cumming, William G., assignor.)
Gray, Arzy R. (See Dickey, J. B., and Gray.)
Graybill, Alfonso A. (See Eslinger, Russel L., assignor.)
Greeley, Mark S. (See Deems, F. E., MacIntyre, Greeley and Fisk.)
Grein, Sylvester F., and P. G. Magrini, Belle Vernon, assignors to American Window Glass Company, Pittsburgh, Pa. Glass handling machine. 2,285,921; June 9.
Gresham, William F., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of substituted aldehydes. 2,286,034; June 9.
Groene, William F., assignor to The R. K. LeBlond Machine Tool Company, Cincinnati, Ohio. Tool holder for lathes. 2,285,771; June 9.
Groene, William F., and H. J. Siekmann, assignor, to The R. K. LeBlond Machine Tool Company, Cincinnati, Ohio. Machining crankshafts. 2,285,772; June 9.
Grogan, Michael J., et al. (See Joy, Septer S., assignor.)
Gronberg, Victor A., and L. M. Hultberg, Jamestown, assignors to Art Metal Construction Company, Jamestown, N. Y. Hinge construction. 2,285,510; June 9.
Gröner, Erich, Darmstadt, Germany, assignor to Röhm & Haas Company, Philadelphia, Pa. Emulsions. 2,285,579; June 9.
Grosse, Vitaly, Berlin-Lichterfelde, Germany, assignor to General Electric Company. High tension insulator. 2,285,964; June 9.
Grossenbacher, Ernest, Fajardo, Puerto Rico. Variable speed apparatus. 2,285,431; June 9.
Grout, Melvin C., and M. E. Frost, Springfield, Ohio. Rotary toothbrush. 2,285,505; June 9.
Guardite Corporation, The. (See Smith, H. L., Jr., and Jones, assignors.)
Gulf Research & Development Company. (See Ritzmann, Otto F., assignor.)
Gutzmann, Fritz, Schoneiche, near Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Condenser. 2,285,432; June 9.
Guy, Hubert G. (See Bousquet, E. W., Ellingboe, and Guy.)
Guy, Hubert G. (See Bousquest, E. W., and Guy.)
Haase, Jörgen L., Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Tire-building machinery. 2,285,922; June 9.
Haase, Wilbert W., assignor to Wilbert W. Haase Co., Forest Park, Ill. Winch drag mechanism. 2,285,923; June 9.
Haase, Wilbert W., Co. (See Haase, Wilbert W., assignor.)
Haberman, Max, Bronx, N. Y. Permanent waving device. 2,285,653; June 9.
Haddock, Norman H., Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Phthalimide coloring matter. 2,285,511; June 9.
Haese, Kurt. (See Beiersdorf, H., Haase and Müller.)
Hageman, Louis F., assignor to American Sales Book Company, Inc., Niagara Falls, N. Y. Strip feed for manifolding machines. 2,286,084; June 9.
Haggart, John C., Jr. Westfield, N. J., assignor to Signal Service Corporation. Reflector unit and making said unit. 2,286,085; June 9.
Hake, Donald S. (See Kinzie, C. J., and Hake.)
Halfvarson Gustaf A., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Sound-deadening material and method. 2,285,924; June 9.
Halstead, Owen L., Middlefield, Ohio. Wheel gauge. 2,285,965; June 9.
Hamblett, Clement H. (See Beck, W. W., and Hamblet.)
Hamershlag, Simon, Brooklyn, N. Y. Hat. 2,286,086; June 9.
Hamilton, Alfred E., Pittsburgh, Pa. Roll handling apparatus. 2,285,966; June 9.
Handy, Jane G. (See Handy, Robert G., assignor.)
Handy, Robert G., assignor to J. G. Handy, Detroit, Mich. Uniform pressure distributing seat. 2,285,925; June 9.
Hanigan, William C., Chicago, Ill. Printing apparatus and attachment therefor. 2,286,087; June 9.
Hanna, Clinton R., Pittsburgh, and S. J. Mikina, Wilkinsburg, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Tension regulator. 2,285,654; June 9.
Hanslick, Roy S., New Haven, Conn., assignor to United States Rubber Company, New York, N. Y. Vulcanization accelerator. 2,285,813; June 9.
Hanson, Harold F., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Portable dynamometer. 2,285,580; June 9.

Hardy, Vernal R., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of fabrics. 2,285,967; June 9.
Harley, Joseph J., Tenafly, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Stapling machine. 2,285,512; June 9.
Harlow, Frederick J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Apparatus for withdrawing liquids from closed containers. 2,285,710; June 9.
Harnischfeger Corporation. (See Remmel, A. W., and Brent, assignors.)
Harrell, Joel N., Charleston, S. C. Center for tapping tools. 2,286,088; June 9.
Harrington, Ferris T., and R. L. Tweedale, assignor to Vickers Incorporated, Detroit, Mich. Power transmission. 2,285,968; June 9.
Harris, Benjamin R. (See Epstein, A. K., and Harris.)
Harris, Benjamin R., Chicago, Ill., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Chemical substance. 2,285,773; June 9.
Harris, John L., assignor to Minneapolis-Honeywell Regulator Company. Minneapolis, Minn. Control apparatus. 2,285,513; June 9.
Harris, Sydney P., Stamford, Conn., assignor to Schick Incorporated. Hand attachment means for vibrators and the like. 2,286,089; June 9.
Harrison, John W., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Heating unit. 2,286,090; June 9.
Hart & Cooley Manufacturing Company. (See Kietzmann, Alfred E., assignor.)
Hartmann Trunk Company. (See Ritter, Julius, Jr., assignor.)
Hartridge, Leslie, Ponders End, England. Pressure switch. 2,285,711; June 9.
Harvey, Herbert, and R. S. Thacker, Los Angeles, assignors to L. M. Harvey, La Canada, Calif. Automatic positioning means. 2,285,517; June 9.
Harvey, Leo M. (See Harvey, H., and Thacker, assignors.)
Hastings Manufacturing Company. (See Phillips, Harold P., assignor.)
Haug, George W., and H. B. McEuen, Jacksonville, Fla. X-ray tube and system therefor. 2,286,091; June 9.
Hazeltine Corporation. (See Wheeler, Harold A., assignor.)
Hechenbleikner, Ingenuin, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Aromatic substituted methyl esters of hydrazoic acid as insecticides. 2,286,169; June 9.
Hedgpeth, Theron L., Oak Park, assignor to Duro Metal Products Company, Chicago, Ill. Jig saw. 2,285,713; June 9.
Hedlund, Martin R. (See Hedlund, Wilfred E., and M. R.)
Hedlund, Wilfred E. and M. R., Boyceville, Wis. Hay lift. 2,286,092; June 9.
Heiland, Carl A., assignor to Heiland Research Corporation, Denver, Colo. Selector system for amplifiers. 2,286,170; June 9.
Heiland Research Corporation. (See Heiland, Carl A., assignor.)
Heinemann, Richard F., Oakland, assignor to Victor Equipment Company, San Francisco, Calif. Fluid controlling valve. 2,285,655; June 9.
Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 2,285,926; June 9.
Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Scale counterpoise. 2,285,927; June 9.
Hempel, Gerd, Berlin-Reinickendorf, Germany, assignor to General Electric Company. Telemetric system. 2,285,969; June 9.
Hemphill, Lawrence F., Fort Wayne, Ind., assignor to General Electric Company. Brush holding device. 2,285,970; June 9.
Hercules Powder Company. (See Pragoff, Emile, Jr., assignor.)
Hercules Powder Company. (See Stern, Raphael L., assignor.)
Hercules Powder Company. (See Traylor, William N., assignor.)
Hermesdorf, Walter H., assignor to Chain Store Products Corporation, Chicago, Ill. Device for threading hairpins or the like upon cards. 2,285,433; June 9.
Herold, Walter F., Easton, assignor to The Bassick Company, Bridgeport, Conn. Truck caster. 2,285,656; June 9.
Hertzberg Patents, Inc. (See Hertzberg, William, assignor.)
Hertzberg, William, assignor to Hertzberg Patents, Inc., New York, N. Y. Shaker mop. 2,285,383; June 9.
Hewel, Horst, Berlin-Lichterfelde, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Receiver. 2,285,857; June 9.
Hickman, Clarence N., Jackson Heights, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Brush carriage for selector switches. 2,285,657; June 9.
Hicks, Reginald, Yonkers, N. Y., assignor to Schick Incorporated. Dry shaver. 2,286,093; June 9.
Hill, Hermann, Bridgeport, Conn., assignor to Magazine Repeating Razor Company, New York, N. Y. Stacking machine. 2,285,814; June 9.
Hill, Jacob L., Dallas, Tex. Feed control mechanism. 2,285,971; June 9.
Hirsh, Fred, New York, N. Y., assignor to Adjusta Company. Adjustable buckle. 2,285,714; June 9.
Hitchcock, Richard C., Upper Montclair, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Instrument cover. 2,285,658; June 9.
Hittson, Harker H., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Apparatus for operating vibratory conveyers or motors. 2,285,434; June 9.
Hoe, R. & Co., Inc. (See Eckhard, William K., assignor.)
Holcomb, Charles R., Jr., Kansas City, Mo. Vending machine. 2,285,435; June 9.
Holden, William H. T., Woodside, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 2,285,815; June 9.
Holden, William H. T., Woodside, N. Y., F. A. Hubbard, Maplewood, N. J., and W. H. Martin, Chappaqua, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,285,072; June 9.
Holland & Hannen and Cubitts Limited. (See Gallai-Hatchard, Marcel, assignor.)
Hollingsworth, Vern C., assignor to American Sales Book Company, Inc., Niagara Falls, N. Y. Selective printing. 2,286,094; June 9.
Holo-Krome Screw Corporation. (See Purtell, William A., assignor.)
Hoover, Vaino A., Los Angeles, assignor to Byron Jackson Co., Huntington Park, Calif. Motor and cooling means therefor. 2,285,436; June 9.
Hopkins, Arthur C., assignor to Oval Wood Dish Corporation, Tupper Lake, N. Y. Stick wrapping machine. 2,285,715; June 9.
Hopkins, Robert C., Alliance, Ohio. Pressure liquid blending apparatus and process. 2,285,973; June 9.
Horner, Edgar E., Pittsburgh, Pa. Calculating machine. 2,285,774; June 9.
Horrobin, Sydney, and R. G. New, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Electrolytic process for the production of quinone and hydroquinone. 2,285,858; June 9.
Horton, Erwin C., Hamburg, assignor to Trico Products Corporation, Buffalo, N. Y. Vehicle water system. 2,285,581; June 9.
Horton, Erwin C., Hamburg, and A. Rappl, assignors to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 2,286,035; June 9.
Horton, Reuben H. (See Ledwinka, J., and Horton.)
Houdry Process Corporation. (See Bates, John R., assignor.)
Houghton, Albert A., and C. M. Taylor, Saltcoats, Scotland, assignors to Imperial Chemical Industries Limited. Manufacture of methyl cellulose. 2,285,514; June 9.
Houlette, Henry I., Mansfield, Ohio. Tire retreading mold. 2,286,134; June 9.
Houpt, Alfred G. (See Christmann, L. J., and Houpt.)
Howland, Thomas J., Long Branch, N. J. Bathing cap. 2,285,659; June 9.
Howland, Thomas J., Long Branch, N. J. Bathing cap. 2,285,660; June 9.
Hryzack, Alfred, New York, N. Y. Fastener. 2,285,661; June 9.
Hubbard, Francis A. (See Holden, W. H. T., Hubbard and Martin.)
Huber, Charles J., West Chester, assignor to Downingtown Manufacturing Company, Downingtown, Pa. Pump structure. 2,285,974; June 9.
Hubschmid, Gottfried F., Reute in Appenzell, Inner Rhodes, Switzerland. Sound pickup for sound film projectors. 2,285,975; June 9.
Hughes, Arthur J., et al. (See Everitt, Philip F., assignor.)
Hughes, Henry, & Sons, Limited, et al. (See Everitt, Philip F., assignor.)
Hultson, Robert R., Rugby, England, assignor to General Electric Company. Centrifugal compressor. 2,285,976; June 9.
Hulsberg, Herbert A., assignor to Universal Oil Products Company, Chicago, Ill. Control means for catalytic converters. 2,285,716; June 9.
Hultberg, Levi M. (See Gronberg, V. A., and Hultberg.)
Human, Alonzo D., San Bernardino, Calif. Adjustable cushion seat template. 2,285,582; June 9.
Hunker, Martin L., assignor to Reeves Steel and Manufacturing Company, Dover, Ohio. Reinforced sheet metal article. 2,285,977; June 9.
Hunter, Richard B., Shorewood, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Circuit control system. 2,285,978; June 9.
Hurley, Roy T., Dobbs Ferry, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Light dividing apparatus. 2,285,515; June 9.
Hurt, Earl L., Deerfield, Ill. Meter. 2,285,859; June 9.
Hutcheson, John A., Catonsville, Md., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Tube cooling means. 2,285,662; June 9.
Hydraulic Brake Company. (See Berglund, Charles V., assignor.)
Hygrade Sylvania Corporation. (See McCarthy, Henry J., assignor.)

Imperial Chemical Industries Limited. (See Haddock, Norman H., assignor.)
Imperial Chemical Industries Limited. (See Horrobin, S., and New, assignors.)
Imperial Chemical Industries Limited. (See Houghton, A. A., and Taylor, assignors.)
Imperial Chemical Industries Limited. (See Knight, A. H., and Pearman, assignors.)
Imperial Chemical Industries Limited. (See Wyler, Max, assignor.)
Imperial Knife Company. (See Vossler, Henry, assignor.)
Independent Pneumatic Tool Company. (See Forss, Frithlof P., assignor.)
Indge, Herbert S., Westboro, assignor to Norton Company, Worcester, Mass. Lapping machine truing apparatus. 2,285,717; June 9.
Industrial Patents Corporation. (See McKee, H. H., Metzen, and Schiewe, assignors.)
Industrial Rayon Corporation. (See Jordan, L. J., Bergmann, and Burkholder, assignors.)
Ingram, Joseph J., Portland, Oreg. Adjustable roof jack. 2,285,663; June 9.
Injecta Aktiengesellschaft. (See Suter, Alexander, assignor.)
Innes, George, Davenport, Iowa. Pickup. 2,286,095; June 9.
Interchemical Corporation. (See Gessler, A. E., Carman, and Engelhart, assignors.)
International Business Machines Corporation. (See Leathers, Ward, assignor.)
International Nickel Company. (See Bieber, Clarence G., assignor.)
International Nickel Company, The. (See Wesley, Andrew, assignor.)
International Nickel Company, The. (See Wesley, A., and Copson, assignors.)
International Telephone & Radio Manufacturing Corporation. (See Byrne, Paul F., assignor.)
Isaacson, Charles C., El Campo, Tex. Air heater. 2,285,718; June 9.
Jacob, Frederick N., assignor to Johnson Laboratories, Inc., Chicago, Ill. Image suppression system. 2,285,979; June 9.
Jacobs Manufacturing Company. (See Krenzke, William F., assignor.)
Jacobson, James J., New York, N. Y. Pneumatic tire. 2,285,929; June 9.
Jeckel, Norman C., Yonkers, assignor to American Cystoscope Makers, Inc., New York, N. Y. Ureteral catheter. 2,285,980; June 9.
Jeffrey Manufacturing Company, The. (See Hittson, Harker H., assignor.)
Jeffrey Manufacturing Company, The. (See Jeffrey, R. K., and L. E. Mitchell, assignors.)
Jeffrey, Robert K., Columbus, and L. E. Mitchell, deceased, Columbus, Ohio, by R. D. Nichols, Columbus, Ohio, administrator, assignors to The Jeffrey Manufacturing Company. Electrical cable reel. 2,285,860; June 9.
Jeffrey, Robert K., Columbus, and L. E. Mitchell, deceased, Columbus, Ohio, R. D. Nichols, Columbus, Ohio. administrator, assignors to The Jeffrey Manufacturing Company. Mining machine. 2,285,861; June 9.
Jeffrey, Robert K., Columbus, Ohio, and L. E. Mitchell, deceased, late of Columbus, Ohio, by R. D. Nichols, Columbus, Ohio, administrator, assignors to The Jeffrey Manufacturing Company. Mining machine. 2,285,862; June 9.
Jeffrey, Robert K., Columbus, Ohio, and L. E. Mitchell, deceased, late of Columbus, Ohio, by R. D. Nichols, Columbus, Ohio, administrator, assignors to the Jeffrey Manufacturing Company. Hydraulic piston motor. 2,285,863; June 9.
Jeffrey, Robert K., Columbus, and L. E. Mitchell, deceased, late of Columbus, Ohio, by R. D. Nichols, administrator, Columbus, Ohio, assignors to The Jeffrey Manufacturing Company. Mining machine. 2,285,864; June 9.
Jennings, Harry C. (See Everest, H. A., and Jennings.)
Jennings, Lawrence D., Wilkinsburg, and R. A. Taylor, Forest Hills, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Surface preparation of bearings for babbitting. 2,285,583; June 9.
Jensen, Helge, Flushing, assignor to Cole Electric Products Co. Inc., Long Island City, N. Y. Electrical connector. 2,285,928; June 9.
Jerome, Allan J., and M. A. Weckerly, assignors to Toledo Scales Company, Toledo, Ohio. Weighing device. 2,285,719; June 9.
Jewell, Joseph W. (See Nofsinger, C. W., and Jewell.)
Joa, Curt G., assignor to C. G. Joa, Inc., Sheboygan Falls, Wis. Stile drilling apparatus. 2,286,096; June 9.
Joa, Curt G., Inc. (See Joa, Curt G., assignor.)
Johannson, Helmuth, Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. High frequency system. 2,285,437; June 9.
Johns, Milton E., Shreveport, La. Finger protector. 2,285,981; June 9.
Johnson, Charles R., Glenn Mills, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Expansible fabric cover. 2,286,136; June 9.
Johnson, Frank W. (See Downing, F. B., Benning, and Johnson.)
Johnson Laboratories, Inc. (See Jacob, Frederick N., assignor.)
Johnson, Roy W., and L. V. McCarty, assignors to Automatic Products Company, Milwaukee, Wis. Furnace control. 2,286,137; June 9.
Johnson, Welton V., Short Hills, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Terminal. 2,286,097; June 9.
Johnston, Albert F., Narberth, Pa. Airport barricade guard. 2,285,664; June 9.
Jones, Arnold W., and Company. (See Marinetti, Edward G., assignor.)
Jones, Charles H., Warwick, R. I., assignor to Universal Winding Company, Boston, Mass. Winding strand materials and package produced thereby. 2,285,438; June 9.
Jones, Charles H., Warwick, R. I., assignor to Universal Winding Company, Boston, Mass. Winding machine. 2,285,439; June 9.
Jones, Homer W., Westfield, N. J., assignor to The Linde Air Products Company. Method and apparatus for conditioning metal bodies. 2,285,518; June 9.
Jones, Lucian N. (See Smith, H. L., Jr., and Jones.)
Jones, Ruel C., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Control apparatus. 2,285,665; June 9.
Jordan, Lavern J., Fairview, R. F. Bergmann, Lakewood, and A. H. Burkholder, assignors to Industrial Rayon Corporation, Cleveland, Ohio. Twister cap. 2,285,584; June 9.
Jordan, Richard H., Hamden, assignor to The A. C. Gilbert Company, New Haven, Conn. Kitchen utility device. 2,285,816; June 9.
Joy, Septer S., assignor of twenty-four per cent to C. A. Crawford, seventeen and one-half per cent to M. J. Grogan, ten per cent to G. Oltean, twenty-five per cent to M. F. Craft, and five per cent to M. Menestrina, all of Terre Haute, Ind. Device for retaining heat in motor oil. 2,285,720; June 9.
K. D. G. Instruments Limited. (See Mack, Frederick, assignor.)
Kahan, Mortimer J., assignor to E. Meyer, New York, N. Y. Extraction apparatus. 2,285,930; June 9.
Kaiser, Herman F., Washington, D. C. Device for handling capsules containing radioactive substances. 2,285,440; June 9.
Kalischer, Milton, Longmeadow, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigeration apparatus. 2,285,946; June 9.
Kalter, Harold E., assignor to The Troxel Manufacturing Company. Elyria, Ohio. Cycle saddle. 2,286,138; June 9.
Kamket Corporation. (See De Hart, William A., assignor.)
Karl, Heinrich, Jersey City, N. J. Transmitter, receiver, and amplification system. 2,285,585; June 9.
Karp, Morris, Philadelphia, Pa. Vegetable grater. 2,285,721; June 9.
Kater, Joseph A., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Impulse mechanism. 2,286,135; June 9.
Keele, Walter D., Ryan, Okla. Current generating means. 2,285,775; June 9.
Keep, Otto A., Harborcreek, Pa., assignor to General Electric Company. Power system. 2,285,982; June 9.
Keiper, Frank. (See Amico, Joseph, assignor.)
Kellogg, M. W., Co., The. (See Austin, Harold R., assignor.)
Kells, Lyman M., W. F. Kern, and J. R. Bland, Annapolis, Md., assignors to Keuffel & Esser Company, Hoboken, N. J. Slide rule. 2,285,722; June 9.
Kelly, Daniel A., assignor to The Prime Manufacturing Company, Milwaukee, Wis. Piston puller. 2,285,983; June 9.
Kelsey-Hayes Wheel Company. (See Batle, Joseph E., assignor.)
Kennedy, Kenneth W. (See Stando, J. P., Kennedy, and Anschicks.)
Kern, Willis F. (See Kells, L. M., Kern, and Bland.)
Kerr, Charles E., Hoopeston, Ill., assignor to Food Machinery Corporation, San Jose, Calif. Liquid density responsive apparatus. 2,285,586; June 9.
Kerr, Howard J., Westfield, assignor to The Babcock & Wilcox Company, Newark, N. J. Vapor generator. 2,285,442; June 9.
Kerrigan, Joseph E., Chicago, Ill. Measuring and indicating device. 2,285,723; June 9.
Kestell, Thomas A., Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe sewing machine. 2,286,139; June 9.
Keuffel & Esser Company. (See Kells, L. M., Kern, and Bland, assignors.)
Keyser, Harry C., Portland, Oreg. Portable milk cooler. 2,285,520; June 9.
Kietzmann, Alfred E., assignor to Hart & Cooley Manufacturing Company, Holland, Mich. Directional grille. 2,285,984; June 9.
Kimball, Albert W., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Control system. 2,285,587; June 9.

King, George E., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Feed drive motor control. 2,285,666; June 9.
King, Gerald V., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Step-by-step operated crossbar switch. 2,285,985; June 9.
Kinney, David C., Kendallville, Ind. Electric lamp. 2,285,724; June 9.
Kinney Manufacturing Company. (See Bowering, Henry G., assignor.)
Kintzing, Reese T., and O. D. von Mehren, Wilkinsburg, and C. E. Gary, Forest Hills, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit interrupter. 2,285,986; June 9.
Kinzie, Charles J., and D. S. Hake, Niagara Falls, assignors to The Titanium Alloy Manufacturing Company, New York, N. Y. Making zirconium nitrate. 2,285,443; June 9.
Kirk, Morris P., & Son, Inc. (See Dubs, Samuel F., assignor.)
Kirkes, Clyde J., Washington, D. C. Radio antenna. 2,285,588; June 9.
Klein, Victor G., St. Louis, and L. A. Reuter, Normandy, assignors to Lincoln Engineering Company, St. Louis, Mo. Guide. 2,286,140; June 9.
Kloid, Henry W., assignor to American Automatic Typewriter Company, Chicago, Ill. Link connection for automatic typewriters. 2,285,444; June 9.
Kneedler, George A., Vernon, Tex. Air conditioner. 2,285,725; June 9.
Knight, Arthur H., and F. H. Pearman, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Manufacture of soluble nitro dyestuffs and their application. 2,285,516; June 9.
Knoblaugh Armand F., assignor to The Baldwin Company, Cincinnati, Ohio. Piano action. 2,285,817; June 9.
Knutson, Alfred W., assignor of one-half to F. H. Brown and one-half to E. K. Whited, both of Geneseo, Ill. Saw treating machine. 2,286,098; June 9.
Koehly, Paul P. (See Georgiev, A. M., and Koehly.)
Kohl, William R., Glenview, Ill. Bag sealer. 2,285,726; June 9.
Kollsman, Paul, New York, N. Y., assignor, by mesne assignments, to Square D Company, Detroit, Mich. Vertical speed indicator. 2,285,521; June 9.
Komarewsky, Vasili I., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of gasoline. 2,285,727; June 9.
Kontz, Ernest C., Jr., Rome, Ga., assignor to Tubize Chatillon Corporation. Unwinding thread. 2,285,667; June 9.
Kootz, Arthur C., assignor to Gem Products, Incorporated, Milwaukee, Wis. Mop. 2,285,818; June 9.
Kopp, Walter R., and E. B. Blue, New Haven, Conn., assignors, by mesne assignments, to Western Cartridge Company. Hand lamp. 2,285,589; June 9.
Koppelmann, Floris. (See Wegener, J., Zuhlke, and Koppelmann.)
Kornel, Otto, assignor to The Brush Development Company, Cleveland, Ohio. Phonograph recorder. 2,286,178; June 9.
Korth, Elmer B., Burlington, Wis. Hydraulic cooler. 2,285,668; June 9.
Kost, Alwin, assignor to Kost Incorporated, Portland, Oreg. Motor vehicle steering stabilizer. 2,285,445; June 9.
Kost Incorporated. (See Kost, Alwin, assignor.)
Krasnov, George S. and N. I., Melrose Park, Pa. Slip cover. 2,286,171; June 9.
Krasnov, Norman I. (See Krasnov, G. S. and N. I.)
Krimsky, Emanuel, Brooklyn, N. Y. Optical instrument. 2,285,987; June 9.
Krister, Charles J. (See Condo, F. E., Krister, and Lundquist.)
Kroll, Harry A., Buffalo, N. Y. Toy amusement device for simulating aircraft in flight. 2,285,988; June 9.
Kroll, Marjorie. (See Kroll, Philip J., assignor.)
Kroll, Philip J., New Orleans, La., assignor to M. Kroll, Cambridge, Mass. Vehicle lift. 2,285,989; June 9.
Kronmiller, Carl G., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Two stage thermostat. 2,285,446; June 9.
Kruckewitt, John, and J. A. Donahoe, Pittsburgh, Pa. Vending machine. 2,285,931; June 9.
Kurtz, Jules G., Philadelphia, Pa. Needle bevel maintainer and hone. 2,286,141; June 9.
Lamb, Anthony H., Elizabeth, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Integrating photometer. 2,286,036; June 9.
Lamberty, Frederick R., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Guard circuit. 2,286,142; June 9.
Lange, Paul W., and H. A. McFarland, Casper, Wyo. Pipe tongs. 2,286,099; June 9.
Larsen, Alvin E., assignor to Rex Accessories Company, Racine, Wis. Headlight adapter. 2,285,591; June 9.
Larson, John L., Chicago, Ill. Boat launching device. 2,285,590; June 9.
Latham, George H. (See Schilling, A. A., and Latham.)
Lawrenz, Fred F., Dallas, Tex. Plant support. 2,285,522; June 9.
Leathers, Ward, Brooklyn, N. Y., assignor, by mesne assignments, to International Business Machines Corporation. Automatic meter-reading apparatus. 2,285,819; June 9.
Leavenworth, Frank G., Elmshurst, assignor, by mesne assignments, to Packers Machinery Company, Chicago, Ill. Apparatus for testing intestines. 2,286,172; June 9.
Leavitt, Floyd H., Burlingame, assignor to Shell Development Company, San Francisco, Calif. Soil fertilization. 2,285,932; June 9.
Le Blond, R. K., Machine Tool Company, The. (See Groene, William F., assignor.)
Le Blond, R. K., Machine Tool Company, The. (See Groene, William F., and Siekmann, assignors.)
Ledwinka, Joseph, assignor to Budd Manufacturing Company, Philadelphia, Pa. Propeller drive. 2,285,592; June 9.
Ledwinka, Joseph, and R. H. Horton, assignors to E. G. Budd Manufacturing Company, Philadelphia, Pa. Double deck rail car. 2,285,933; June 9.
Lee, Troy H., Lumberton, assignor of one-half to Ben Coe, Robeson County, N. C. Fertilizer distributor. 2,286,143; June 9.
Leeds and Northrup Company. (See Stein, I. M., and Peters, assignors.)
Leeds & Northrup Company. (See Wunsch, Felix, assignor.)
Leef, John H., Minneapolis, Minn. Garment ironer. 2,285,990; June 9.
Lehmann, Gerard, assignor to Societe Anonyme des Industries Radioelectriques, (S. A. D. I. R.), Paris, France. Antenna. 2,285,669; June 9.
Lehon Company, The. (See Cuno, Charles W., assignor.)
Leifer, Alfred, and F. Schilgen, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Mechanical inverter. 2,285,934; June 9.
Leinen, Arthur P., Chicago, assignor to Benjamin Electric Mfg. Company, Des Plaines, Ill. Combined latch and clamp construction. 2,285,728; June 9.
Lemert, Ralph D., Los Angeles, Calif. Scanning method and device. 2,285,593; June 9.
Lester, Sidney, Brooklyn, assignor to Patchogue-Plymouth Mills Corporation, New York, N. Y. Knockdown display box. 2,285,991; June 9.
Lever Brothers Company. (See White, J. R., and Dunn, assignors.)
Lewin-Mathes Company. (See Staples, J. A., and Lewin, assignors.)
Lewin, Tannie. (See Staples, J. A., and Lewin.)
Lewis, William A., Jr. (See West, C. P., Smith, and Lewis, Jr.)
Lichter, Malvin, New Rochelle, N. Y. Applying reinforcements. 2,285,447; June 9.
Lieberman, Stanley S. (See Rowe, Robert, assignor.)
Lien, Jonas, Port Washington, N. Y. Flow indicator. 2,286,144; June 9.
Lincoln Engineering Company. (See Klein, V. G., and Reuter, assignors.)
Lincoln, John C. (See Neely, William H., assignor.)
Linde Air Products Company, The. (See Bucknam, J. H., and Miller, assignors.)
Linde Air Products Company, The. (See Cowin, Herbert W., assignor.)
Linde Air Products Company, The. (See Jones, Homer W., assignor.)
Lindeman, Charles A., Jr., Chicago, Ill. Fuel injection pump. 2,285,730; June 9.
Lindemuth, Lewis B., Port Washington, N. Y. Production of sound metal ingots. 2,285,523; June 9.
Lindenblad, Nils E., Port Jefferson, N. Y., assignor to Radio Corporation of America. Amplifier. 2,285,729; June 9.
Lindenblad, Nils E., Rocky Point, N. Y., assignor to Radio Corporation of America. Wide band antenna. 2,286,179; June 9.
Lingal, Harry J., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Bushing cap. 2,285,594; June 9.
Link-Belt Company. (See Davis, N. L., Drinkwater, and Carlisle, assignors.)
Lionel Corporation, The. (See Bonanno, Joseph L., assignor.)
Littleton, Jesse T., H. R. Lillie, and W. W. Shaver, assignors to Corning Glass Works, Corning, N. Y. Tempering glass. 2,285,595; June 9.
Littleton, Jesse T., H. R. Lillie, and W. W. Shaver, assignors to Corning Glass Works, Corning, N. Y. Tempering glass. 2,285,596; June 9.
Livak, John E. (See Britton, E. C., and Livak.)
Livak, John E. (See Taylor, F. L., and Livak.)
Loder, Donald J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of substituted glyceric aldehydes. 2,286,037; June 9.
Loder, Donald J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of polyhydric alcohols. 2,285,448; June 9.
Logan, John, Jr., assignor to The Logan-Long Company, Chicago, Ill. Roofing. 2,286,145; June 9.
Logan-Long Company, The. (See Logan, John, Jr., assignor.)
Logan, Mason A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,285,524; June 9.

Logan, Russell B. (See Faris, H. P., Yochum, and Logan.)
Logsdon, Bernard, East Moline, Ill. Badge carrier. 2,285,870; June 9.
Long, Alfred. (See Metziger, Max, and Long.)
Look, Clifton R., Addison, Maine. Portable lobster and fish container. 2,286,146; June 9.
Loomis, Allen. (See Young, R. W., and Loomis.)
Loomis, Crawford C., Ilion, N. Y., assignor to Remington Arms Company, Inc. Firearm sight. 2,286,147; June 9.
Lorenz, C., Aktiengesellschaft. (See Gutzmann, Fritz, assignor.)
Lorenz, C., Aktiengesellschaft. (See Johannson, Helmuth, assignor.)
Lorenz, C., Aktiengesellschaft. (See Schwartz, H-F, and Baier, assignors.)
Lotter, Adolph G., assignor to Stationers Loose Leaf Company, Milwaukee, Wis. Loose-leaf binder. 2,285,525; June 9.
Lowe, Allen V. (See Lowe, Edcar P., and Allen V.)
Lowe, Edcar P., and A. V. Lowe, Carlsbad, N. Mex. Toothbrush. 2,285,865; June 9.
Lowe, Joe, Corporation. (See Roth, Ernest J., assignor.)
Lubriplate Corporation. (See Merkle, George E., assignor.)
Lundquist, William E. (See Condo, F. E., Krister, and Lundquist.)
Lutz, Edwin R., Knoxville, Tenn., and E. M. Allen and T. W. Darrah, New York, N. Y. Folding table. 2,285,597; June 9.
Lutz, Raymond P. (See Dixon, A. L., and Lutz.)
Maage, Alfred E., Jr., Milwaukee, Wis. Damper regulator. 2,285,829; June 9.
Maccoy, Frank Detroit, Mich. Hot water bottle. 2,285,776; June 9.
MacIntyre, Ralph Y (See Deems. F. E., MacIntyre, Greeley and Fisk.)
Mack, Frederick, assignor to K. D. G. Instruments, Limited, London, England. Pressure gauge. 2,285,777; June 9.
Mackall, Kenneth W., Cicero, assignor to Crouse-Hinds Company, Syracuse, N. Y. Adjustable supporting bracket for traffic signals. 2,285,734; June 9.
MacKnight, Harry A., Cranston, assignor to Winsor & Jerauld Manufacturing Company, Providence, R. I. Tenter chain. 2,285,820; June 9.
Maertens, Karl. (See von Issendorff, J., and Maertens.)
Magazine Repeating Razor Company. (See Hill, Hermann, assignor.)
Magill, Rowland R., Lakewood, Ohio, assignor to Peabody Coal Company, Chicago, Ill. Composition for and method of clarifying turbid aqueous solutions. 2,285,992; June 9.
Magley, John S., Miami, Fla. Container. 2,285,731; June 9.
Magrini, Pete G. (See Grein, S. F., and Magrini.)
Mallory, Marion, Detroit, Mich. Internal combustion engine. 2,285,671; June 9.
Maloney, Frank H., Elmhurst, assignor to Brass Goods Manufacturing Co., Brooklyn, N. Y. Tube compressor device. 2,285,821; June 9.
Mann, James U., Arlington, N. J., assignor to United States Rubber Company, New York, N. Y. Producing cavitied rubber sheeting. 2,285,526; June 9.
Mantell, Charles L., Munsey Park, Manhasset, N. Y., assignor to Electro Manganese Corporation, Minneapolis, Minn. Manganese cathode voltage control. 2,286,148; June 9.
Marinetti, Edward G., Riverside, assignor of one-half to Arnold W. Jones and Company, Inc., Providence, R. I. Separable fastener for use in securing the edges of two materials together, particularly adapted for shoes. 2,286,149; June 9.
Markey, Roscoe I., East Orange, assignor to Pollak Manufacturing Company, Arlington, N. J. Shackle construction. 2,286,100; June 9.
Markle, George B., Jr., Hazelton, Pa. Bobbin or the like. 2,285,732; June 9.
Markle, Matthew G., Oak Park, Ill. Combustion device for and method of measuring flame characteristics of gases. 2,285,866; June 9.
Marsh, Frank E., and C. M. Schetski, assignors of thirty per cent to A. B. Cujak, Berlin, Wis. Boot. 2,285,993; June 9.
Marshall, Morris D., Allston, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Producing sols and aerogels. 2,285,449; June 9.
Martel, Edmour O., Jr., Ramsey, N. J., assignor to Feldlinka Silk Co., Garnerville, N. Y. Floating friction yarn tension. 2,285,733; June 9.
Martin, Glenn L., Company, The. (See Veit, Hermann E., assignor.)
Martin, William H. (See Holden, W. H. T., Hubbard and Martin.)
Maryland Baking Company. (See Balton, James, assignor.)
Mason, Basil A. (See Mueller, F. H., Bowan and Mason.)
Mathes, Richard E., Westfield, N. J., assignor to Radio Corporation of America. Multiplex telegraph distributor. 2,285,598; June 9.
Mathews Conveyer Company. (See Bisset, William, assignor.)
Matthews, Jas. H., & Company. (See Rabe, Raymond G., assignor.)
Matthews, Jas. H. & Company. (See Weber, Emil R., assignor.)
Mauro, Margaret F., Washington, D. C. Decoration. 2,285,599; June 9.
Maves, Stanley E., assignor to Western Newell Mfg. Co., Freeport, Ill. Curtain rod package. 2,285,600; June 9.
Maxon, John J., assignor to Maxon Premix Burner Company, Muncie, Ind. Apparatus for proportioning the flow of fluids. 2,286,173; June 9.
Maxon Premix Burner Company. (See Maxon, John J., assignor.)
Mazur, Paul. (See Nichols, W. C., and Mazur.)
McAllister, Sumner H., Lafayette, assignor to Shell Development Company, San Francisco, Calif. Oxidation of alicyclic hydrocarbons. 2,285,601; June 9.
McBride, Earl D., Oklahoma City, Okla. Combination container and first aid splint. 2,285,994; June 9.
McBride, Pierre B., assignor to Porcelain Metals Corporation, Louisville, Ky. Street sign. 2,285,735; June 9.
McCarthy, Henry J., Danvers, Mass., assignor to Hygrade Sylvania Corporation. Electric discharge lamp and starting device. 2,285,450; June 9.
McCarty, Lourdes V. (See Johnson, R. W., and McCarty.)
McCollum, Henry J. De N., Chicago, Ill. Aircraft heater. 2,285,672; June 9.
McCoy, Thomas A., Emeryville, assignor to Granberg Equipment Inc., Oakland, Calif. Liquid metering device. 2,285,527; June 9.
McDermott, Henry J., Prospect Park, Pa., assignor to American Viscose Corporation, Wilmington, Del. Spinning box. 2,285,995; June 9.
McDonald, John C., assignor to The Dow Chemical Company, Midland, Mich. Magnesium base alloy. 2,285,822; June 9.
McEntyre, Alvin R., Gadsden, Ala. Air compressor. 2,285,823; June 9.
McEuen, Harry B. (See Haus, G. W., and McEuen.)
McFarland, Harold A. (See Lange, P. W., and McFarland.)
McGladrey, Lyle L. (See Rhodes, C. M., and McGladrey.)
McKee, Harry H., H. W. Metzen and E. A. Schiewe, assignors to Industrial Patents Corporation, Chicago, Ill. Frankfurter layout. 2,285,736; June 9.
McKelvy, Alfred D., Minneapolis, Minn. Soap cake retainer for shaving mugs. 2,285,996; June 9.
McLeod, Norman, Cleveland, Ohio. Game canal device. 2,285,737; June 9.
McMahon, George F., assignor to Schweitzer & Conrad, Inc., Chicago, Ill. Circuit interrupter. 2,285,602; June 9.
McShane, Phelan, Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Control connection. 2,285,673; June 9.
Mead, Lawrence C., Whittier, Calif. Adjustable wrench. 2,285,603; June 9.
Measurements Corporation. (See van Beuren, John M., assignor.)
Melchionna, Frank A., Cincinnati, Ohio. Shoe construction. 2,285,738; June 9.
Melhose, Alfred E., Westfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic control system. 2,285,451; June 9.
Menestrina, Max, et al. (See Joy, Septer S., assignor.)
Mercier, Jean, Neuilly-sur-Seine, France. Plant and device for fluid control. 2,285,604; June 9.
Mercier, Pierre E., Paris, France. Automatic wing lift varying device for aircraft. 2,286,150; June 9.
Merett, Cecil L., Tulsa, Okla. Muffler or silencer. 2,285,674; June 9.
Merkle, George E., Glen Ridge, N. J., assignor to Lubriplate Corporation, New York, N. Y. Lubricating compound. 2,285,452; June 9.
Merkle, George E., Glen Ridge, N. J., assignor to Lubriplate Corporation, New York, N. Y. Lubricant. 2,285,453; June 9.
Merkle, George E., Glen Ridge, N. J., assignor to Lubriplate Corporation, New York, N. Y. Lubricant. 2,285,739; June 9.
Merle, Joseph M., Tarentum, Pa. Apparatus for producing solid and tubular products from undercooled molten material. 2,285,740; June 9.
Merrick, Herbert L., deceased, by K. S. Merrick, executrix, assignor to Merrick Scale Mfg. Company, Passaic, N. J. Integrating means. 2,285,675; June 9.
Merrick, Katherine S., executrix. (See Merrick, Herbert L.)
Merrick Scale Mfg. Company. (See Merrick, H. L., assignor.)
Messing, Joseph A. (See Frank, W. H., and Messing.)
Metzen, Henry W. (See McKee, H. H., Metzen, and Schiewe.)
Metziger, Max, and A. Long, assignors to Blockson Chemical Co., Joliet, Ill. Detergent composition. 2,285,676; June 9.
Meyer, Earl. (See Kahn, Mortimer J., assignor.)
Meyer, Henry C. A., and C. M. Clarke, Syracuse, assignors to United States Hoffman Machinery Corporation, New York, N. Y. Closure for washing machine cylinders. 2,285,935; June 9.

Meyer, Theodore A., Indianapolis, Ind. Device for measuring conical articles. 2,285,741; June 9.
Mikina, Stanley J. (See Hanna, C. B., and Mikina.)
Miller, Albert W., Jr., Dundalk, Md. Game. 2,286,151; June 9.
Miller, Alfred J. (See Bucknam, J. H., and Miller.)
Miller, De Mont G., Los Angeles, Calif. Line wiping device. 2,285,742; June 9.
Miller, Raymond W., Mooresville, N. C. Cylinder head for spinning machines. 2,286,152; June 9.
Mills, Robert. (See Pelikan, and Mills.)
Milward, Victor T., Santa Barbara, Calif. Combined waiker and serving table. 2,285,778; June 9.
Minaker, Herbert L., Syracuse, assignor to Continental Can Company, Inc., New York, N. Y. Filled container steaming apparatus. 2,285,867; June 9.
Miner, James H., Meridian, Miss. Ice tray. 2,285,605; June 9.
Minneapolis-Honeywell Regulator Company. (See Harris, John L., assignor.)
Minneapolis-Honeywell Regulator Company. (See Kronmiller, Carl G., assignor.)
Minneapolis-Honeywell Regulator Company. (See Petersen, Arnold E., assignor.)
Mino, Thomas L., Cincinnati, Ohio. Safety oil pump base. 2,285,997; June 9.
Mishelevich, Benjamin, Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical relay. 2,285,936; June 9.
Mishelevich, Benjamin, Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical control apparatus. 2,285,937; June 9.
Mitchell Engineering Limited. (See Proctor, Douglas McI., assignor.)
Mitchell, Lewis E. (See Jeffrey, R. K., and Mitchell.)
Moen, Erick, Chicago, Ill. Adjustable tail stock. 2,285,753; June 9.
Mohun, John L., Jr. (See Mosier, C., and Mohun.)
Money, Roland H. (See D'Olive, C. R., and Money.)
Money, Roland H., assignor to The Crosley Corporation, Cincinnati, Ohio. Refrigeration mechanism. 2,285,754; June 9.
Monowatt Electrical Corporation. (See Benander, George B., assignor.)
Monsanto Chemical Company. (See Marshall, Morris D., assignor.)
Monsanto Chemical Company. (See Thomas, C. A., and Morris, assignors.)
Monsanto Chemical Company. (See White, John F., assignor.)
Moore, Robert E. (See Morrison, W. L., and Moore.)
Moran, James G., Orland, Calif. Signal. 2,285,824; June 9.
Morgan Construction Company. (See Bradley, Anson K., assignor.)
Morgan, Raymond O. (See Flickinger, John J., assignor.)
Moriarty, Thomas J., Forestville, assignor to Veeder-Root Incorporated, Hartford, Conn. Resetting mechanism for counters. 2,285,825; June 9.
Morris, Herbert E. (See Thomas, C. A., and Morris.)
Morrison Willard L., Lake Forest, and R. E. Moore, Park, Ridge, Ill. Water heating device. 2,285,998; June 9.
Morton Manufacturing Company. (See Cannon, John D., assignor.)
Mosier, Carl, and J. L. Mohun, Jr., assignors to Union Asbestos & Rubber Company. Making insulating tape. 2,285,755; June 9.
Moss, Robert A., Chevenne, Wyo. Illuminating device for hand bags. 2,285,454; June 9.
Mueller Co. (See Cline, Earl E., assignor.)
Mueller Co. (See Mueller, F. H., Bowan and Mason, assignors.)
Mueller, Frank H., W. J. Bowan and B. A. Mason, assignors to Mueller Co., Decatur, Ill. Pipe line stopper. 2,285,779; June 9.
Müller, Otto. (See Beierdorf, H., Haese and Müller.)
Muller, Wolf F., Glens Falls, assignor to General Aniline & Film Corporation, Binghamton N. Y. Portable light stand. 2,285,868; June 9.
Murphy, Harry L., La Grange, assignor to Armour and Company, Chicago, Ill. Method of and apparatus for spreading carcasses. 2,285,999; June 9.
Musselman, Henry E., assignor to Atlas Press Company, Kalamazoo, Mich. Milling machine. 2,285,743; June 9.
Myers, Julius D., Scotch Plains, assignor to Westinghouse Electric Elevator Company, Jersey City, N. J. Time delay relay. 2,285,677; June 9.
Naftali, Valentine, New York, N. Y. Necktie construction. 2,285,528; June 9.
Napier Company, The. (See Rettenmeyer, Frederick W., assignor.)
Nash-Kelvinator Corporation. (See Sladky, Joseph F., assignor.)
Nash-Kelvinator Corporation. (See Wahlberg, Nils E., assignor.)
National Automotive Fibres, Inc. (See Faris, H. P., Yochum, and Logan, assignors.)
National Cash Register Company, The. (See Shipley, Bernis M., assignor.)
National Lead Company. (See Barksdale, J., and Plechner, assignors.)
National Lead Company. (See Brooks, Arland O., assignor.)
National Lead Company. (See Smith, Carleton H., assignor.)
National Screw & Manufacturing Company, The. (See Davis, Frank B., assignor.)
Naumann, Herbert, Elizabethton, Tenn., assignor to North American Rayon Corporation, New York, N. Y. Supporting yarn bodies. 2,285,826; June 9.
Navias, Louis. (See Vogel, O. G., and Navias.)
Neely, William H., Cleveland, Ohio, assignor to J. C. Lincoln, Scottsdale, Ariz. Wire spring construction for upholstered furniture. 2,285,827; June 9.
Nelson, Robert M., Evanston, assignor to Peerless Equipment Company, Chicago, Ill. Draft gear. 2,285,938; June 9.
Neumair, Joseph A., Hollis, N. Y., assignor to American Machine & Foundry Company. Web feeding mechanism. 2,285,939; June 9.
New, Randal G. A. (See Horrobin, S., and New.)
Newell, Francis M., Woodward, Okla. Excavator tooth. 2,285,455; June 9.
Newman, George W., Kansas City, Mo. Pruning implement. 2,285,780; June 9.
Neyhart, Arthur P., Los Angeles, Calif., assignor to Warren Telechron Company. Calendar clock. 2,286,000; June 9.
Nichols, Richard D., administrator. (See Jeffrey, R. K., and Mitchell, deceased.)
Nichols, William C., Titusville, N. J., and P. Mazur, New York, N. Y., said Nichols assignor to said Mazur. Device to prevent picking in poultry. 2,286,001; June 9.
Nicholson, Frank H., Penn Township, Allegheny County, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling system. 2,286,002; June 9.
Nicolescu, Vintila A., Bucharest, Roumania. Walking beam mechanism. 2,286,153; June 9.
Nixon, Alan C. (See Caselli, A. V., and Nixon.)
Nofsinger, Charles W., and J. W. Jewell, Summit, assignors to Gasoline Products Company, Inc., Jersey City, N. J. Treatment of hydrocarbon oils. 2,285,606; June 9.
Norberg, Carl F., Shaker Heights, and R. E. Sears, assignors to Willard Storage Battery Company, Cleveland, Ohio. Terminal plug. 2,286,101; June 9.
Norbut, Edward R., Newark, N. J. Match holder. 2,285,607; June 9.
Norred, John, Chicago, Ill. Bicycle. 2,286,154; June 9.
Nörring, Otto, Hamburg, Germany, assignor to Shell Development Company, San Francisco, Calif. Nonfoaming emulsifiable oils. 2,285,940; June 9.
North American Rayon Corporation. (See Naumann, Herbert, assignor.)
North Coast Cleaners & Dyers, Inc. (See Whelan, George M., assignor.)
Norton, Clifford, Summit, and B. W. Tucker, Jr., South Orange, N. J., assignors to Otis Elevator Company, New York, N. Y. Movable lintel for vertical doors. 2,286,003; June 9.
Norton Company. (See Indge, Herbert S., assignor.)
Norton Company. (See Ridgway, Raymond R., assignor.)
Nowland, Roger L., New York, N. Y. Camera and finder. 2,285,456; June 9.
Obergfell, Herbert F., River Forest, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Desk telephone set. 2,286,174; June 9.
Oberhoffken, Alexander, Southfield Township, Oakland County, assignor to American Forging and Socket Company, Pontiac, Mich. Control head. 2,285,941; June 9.
Obermaier, John A., Chicago, Ill. Pyrometer. 2,285,457; June 9.
Oberosler, Joseph A., Central City, Colo. Piston ring tool. 2,285,828; June 9.
O'Farrell, Matthew, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Holder for impact tools. 2,285,608; June 9.
Ohio Carbon Company, The. (See Stoffel, Lester L., assignor.)
Oiljak Manufacturing Company, The. (See Pedersen, Thomas W., assignor.)
Old Colony Envelope Company. (See Cloutier, Gerald O., assignor.)
Oliver United Filters Incorporated. (See Evans, Franklin J., assignor.)
Oltean, George, et al. (See Joy, Septer S., assignor.)
Osborn, William H. (See Tuwiner, S. B., and Osborn.)
O'Shei, William E., London, England. Windshield cleaner. 2,286,004; June 9.
Otis Elevator Company. (See Norton, C., and Tucker, Jr., assignor.)
Otto, Harold M., Schenectady, N. Y., assignor to General Electric Company. Liquid-gas separating arrangement. 2,286,005; June 9.
Oval Wood Dish Corporation. (See Hopkins, Arthur C., assignor.)
Overstrom, Conrad. (See Overstrom, Gustave A., G., and C.)
Overstrom, George. (See Overstrom, Gustave A., G., and C.)
Overstrom, Gustave A. and G., Eagle Rock, and C. Overstrom, Altadena, Calif. Vibratory screen structure. 2,285,678; June 9.
Packers Machinery Company. (See Leavenworth, Frank G., assignor.)
Padgitt, Jesse D., Dallas, Tex. Saddle. 2,285,869; June 9.

Paget, William W., Newark, N. J. Safety tank and fuel system for aircraft. 2,285,830; June 9.

Pankonin, William G., Chicago, Ill. Stapling machine. 2,286,155; June 9.

Papp, Andrew E., assignor to G & W Electric Specialty Co., Chicago, Ill. Electrical connection for potheads and forming same. 2,285,529; June 9.

Parker Pipe Company, The. (See Richards, Percy S., assignor.)

Parker, Thomas, Kuala Lumpur, Federated Malay States. Hinge assembly for the buckets of dredger chains. 2,285,870; June 9.

Parkhill, Claude J., et al. (See Wefers, Martin, assignor.)

Patchogue-Plymouth Mills Corporation. (See Lester, Sidney, assignor.)

Patent Sales. (See Flint, H. C., and Fryer, assignors.)

Patrick, Audie R., Kansas City, Mo. Automobile brake control. 2,285,781; June 9.

Pawsey, Joseph L. (See Cork, E. C., and Pawsey.)

Peabody Coal Company. (See Magill, Rowland R., assignor.)

Pearman, Frank H. (See Knight, A. H., and Pearman.)

Pearson, Paul E., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Solder feeder. 2,285,872; June 9.

Pedersen, Thomas W., assignor to The Oiljak Manufacturing Company, Inc., Montclair, N. J. Making bomb burster tubes. 2,285,609; June 9.

Peerless Equipment Company. (See Nelson, Robert M., assignor.)

Pelikan, John M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling system. 2,286,006; June 9.

Pelikan, John M., Pittsburgh, Pa., and R. Mills, Kew Gardens, N. Y., assignors to The Union Switch and Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,286,007; June 9.

Pelzer, Harry L. (See Campbell, O. F., and Pelzer.)

Pennsylvania Industrial Chemical Corporation. (See Corkery, Frank W., assignor.)

Pennsylvania Industrial Chemical Corporation. (See Corkery, F. W., and Bailey, assignors.)

Pennybacker, Edward J., Los Angeles, assignor to K. R. Braly, North Hollywood, Calif. Shower bath spray head. 2,285,831; June 9.

Perkins, Edwin H., Basking Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Feedback amplifier. 2,285,832; June 9.

Peters, Jacob C. (See Stein, I. M., and Peters.)

Peters, John F., and R. H. Wright, Edgewood, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Welding apparatus. 2,286,102; June 9.

Petersen, Arnold E., New York, N. Y., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Burner control system. 2,286,156; June 9.

Peterson, Ray R. (See Saunders, W. S., and Peterson.)

Petty, Olive S., San Antonio, Tex. Method of and apparatus for seismic surveying. 2,285,610; June 9.

Pfalzgraff, Ross M., Marblehead, Mass., assignor to General Electric Company. Magnetic core for electrical devices and making the same. 2,286,008; June 9.

Pharr, William M., Atlanta, Ga. Indoor baseball game. 2,285,782; June 9.

Phelps Dodge Corporation. (See Tuwiner, S. B., and Osborn, assignors.)

Philco Corporation. (See Rundell, Theodore W., assignor.)

Phillips, Harold P., assignor to Hastings Manufacturing Company, Hastings, Mich. Piston ring. 2,285,530; June 9.

Phillips Petroleum Company. (See Evans, Walter R., assignor.)

Phillips Petroleum Company. (See Harlow, Frederick J., assignor.)

Phillips Petroleum Company. (See Shanley, James J., assignor.)

Pickels, George W., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Remote metering system. 2,286,180; June 9.

Pierson, Willett C., East Orange, N. J., assignor, by mesne assignments, to W. H. Anderson, Yonkers, N. Y., trustee. Gel intermediate. 2,286,038; June 9.

Piron, Emil H., New York, N. Y., assignor to Transit Research Corporation. Rail vehicle wheel. 2,286,103; June 9.

Plaskon Company. (See Rodgers, J. L., Jr., and Slaughter, assignors.)

Platt, Isabelle R., Waterville, Conn. Disposable drain strainer. 2,285,833; June 9.

Platz, Henry T., assignor to Briggs Manufacturing Company, Detroit, Mich. Welding equipment. 2,286,104; June 9.

Plechner, Walter W. (See Barksdale, J., and Plechner.)

Pneumatic Scale Corporation Limited. (See Vergobbi, Robert W., assignor.)

Podbielniak, Walter J., assignor to Benjamin B. Schneider, Chicago, Ill. Securing countercurrent contact between fluids. 2,286,157; June 9.

Pollak Manufacturing Company. (See Markey, Roscoe I., assignor.)

Ponsford, Charles A., Albany, Oreg. Copyholder. 2,285,871; June 9.

Pontius, Peter A., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Molded article. 2,285,679; June 9.

Porcelain Metals Corporation. (See McBride, Pierre B., assignor.)

Powe, Frank M., assignor of one-fourth to R. H. Coffin, Mobile, Ala. Valve. 2,286,009; June 9.

Pragoff, Emile, Jr., assignor to Hercules Powder Company, Wilmington, Del. Adhesive material. 2,285,458; June 9.

Pratt, Donald H., Bangor, Me., deceased, Glenna C. Pratt, administratrix. Ring expander. 2,285,459; June 9.

Pratt, Glenna C., administratrix. (See Pratt, Donald H., assignor.)

Price, George E., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric heating device. 2,285,611; June 9.

Prime Manufacturing Company, The. (See Kelly, Daniel A., assignor.)

Prismacolor, Inc. (See Stando, J. P., Kennedy and Anschicks, assignors.)

Proctor, Douglas McI., Bushey, assignor to Mitchell Engineering Limited, London, England. Treatment of organic matter by fermentation. 2,285,834; June 9.

Punte, William F., Syracuse, assignor to Continental Can Company, New York, N. Y. Dispensing container. 2,285,835; June 9.

Purtell, William A., West Hartford, Conn., assignor to The Holo-Krome Screw Corporation. Screw. 2,285,460; June 9.

Purtell, William A., West Hartford, Conn., assignor to The Holo-Krome Screw Corporation. Socketed screw. 2,285,461; June 9.

Purtell, William A., West Hartford, Conn., assignor to The Holo-Krome Screw Corporation. Method of and apparatus for making socketed screws. 2,285,462; June 9.

Quinn, Christopher D., New York, N. Y., assignor to Cherry-Burrel Corporation, Chicago, Ill. Sanitary pipe coupling. 2,286,105; June 9.

Rabkin, William, Kew Gardens, N. Y. Supply container for photographic plates. 2,286,010; June 9.

Radio Corporation of America. (See Dietsch, Carl G. F., assignor.)

Radio Corporation of America. (See Finch, James L., assignor.)

Radio Corporation of America. (See Lindenblad, Nils E., assignor.)

Radio Corporation of America. (See Mathes, Richard E., assignor.)

Radio Corporation of America. (See Seeley, Stuart W., assignor.)

Radio Corporation of America. (See Steers, William F., assignor.)

Ragatz, Edward G., assignor to Union Oil Company of California, Los Angeles, Calif. Coalescing foamy oil. 2,285,744; June 9.

Rahe, Raymond G., Brentwood, assignor to J. H. Matthews & Company, Pittsburgh, Pa. Die locking mechanism. 2,285,942; June 9.

Rapinwax Paper Company. (See Rhodes, C. M., and McGladrey, assignors.)

Rappl, Anton. (See Horton, E. C., and Rappl.)

Rawlins, Herbert L. (See Wallace, J. M., and Rawlins.)

Rea, Philip M., Oklahoma City, Okla. Fishing tool. 2,285,838; June 9.

Redler Conveyor Company. (See Sinden, Alfred de L., assignor.)

Reenstierna, Gustaf L., assignor of one-half to R. Alazzone, Union City, N. J. Can opener. 2,285,783; June 9.

Reeves Steel and Manufacturing Company. (See Hunker, Martin L., assignor.)

Rehthaler, Louis M., Battle Creek, Mich., deceased, H. E. Steinbacher, executor, Sacroiliac and abdominal supporter. 2,285,612; June 9.

Remington Arms Company. (See Coxe, Charles D., assignor.)

Remington Arms Company. (See Egger, F. L., and Snow, assignors.)

Remington Arms Company. (See Loomis, Crawford C., assignor.)

Remington Arms Company. (See Reynolds, Warren S., assignor.)

Remington Arms Company. (See Schilling, A. A., and Latham, assignors.)

Remmel, Arthur W., and R. H. Brent, assignors to Hornischfeger Corporation, Milwaukee, Wis. Building unit. 2,286,158; June 9.

Rettenmeyer, Frederick W., assignor to The Napier Company, Meriden, Conn. Match packet and cardcase. 2,285,836; June 9.

Reuter, Louis A. (See Klein, V. G., and Reuter.)

Rex Accessories Company. (See Larsen, Alvin E., assignor.)

Reynolds, Philip, Forest Hills, assignor of one-half to S. Solarz, New York, N. Y. Vacuum can opener. 2,286,039; June 9.

Reynolds, Warren S., Stratford, Conn., assignor to Remington Arms Company, Inc. Article sealing and labeling machine. 2,286,159; June 9.

Rhodes, Albert J., assignor to American Forging & Socket Company, Pontiac, Mich. Hood latching means. 2,285,682; June 9.

Rhodes, Cecil M., and L. L. McGladrey, St. Paul, assignors to Rapinwax Paper Company, Minneapolis, Minn. Apparatus for applying surface coatings, as paint, to paper, as bread wrapping paper, etc. 2,285,531; June 9.

Rice, Ralph E., Stewartville, Minn. Football down indicator. 2,285,613; June 9.

Richards, Percy S., assignor to The Parker Pipe Company Limited, London, England. Pyrophoric lighter. 2,286,160; June 9.

Ridgway, Herbert N., Winthrop, Mass. Tire chain appliance. 2,286,011; June 9.

Richter, Emil, Jackson Heights, N. Y. Container for pipe cutters. 2,285,839; June 9.

Ridgway, Raymond R., Niagara Falls, N. Y., assignor to Norton Company, Worcester, Mass. Producing the abrasive metal carbides. 2,285,837; June 9.

Ridgway, William F., Rockford, Ill. Permanent magnet generator. 2,285,463; June 9.

Riesenfeld, Kurt, Bronx, N. Y. Dental X-ray photography. 2,285,943; June 9.

Rigby, Richard, assignor to The Anglo-Saxon Petroleum Company, Limited, London, England. Burner for gaseous fuels. 2,285,944; June 9.

Rights, Herbert T., Verona, and U. L. Smith, Morris Plains, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical resistance unit. 2,286,161; June 9.

Ritter, Julius, Jr., assignor to Hartmann Trunk Company, Racine, Wis. Hanger support and hanger. 2,285,745; June 9.

Ritzmann, Otto F., assignor to Gulf Research & Development Company, Pittsburgh, Pa. Apparatus for and method of receiving and recording vibrations. 2,286,106; June 9.

Roberts, William V., Oakland, Calif. Shipping container. 2,285,873; June 9.

Robertson, Alexander, Mount Airy, assignor to Venango Engineering Co., Philadelphia, Pa. Skein dyer. 2,286,107; June 9.

Robertson, H. H., Company. (See Snyder, Purdum M., assignor.)

Rochow, Arthur J., Pittsford, N. Y. Implement holder. 2,286,012; June 9.

Rockola, David C., and A. Dahlstrom, Chicago, Ill., said Dahlstrom assignor to said Rockola. Parking meter. 2,285,532; June 9.

Rodgers, James L., Jr., New York, N. Y., and C. E. Slaughter, New Canaan, Conn., assignors to Plaskon Company, Incorporated, Toledo, Ohio. Composite structure. 2,285,614; June 9.

Roesen, Oscar C., Scarsdale, N. Y., assignor to Wood Newspaper Machinery Corporation, Plainfield, N. J. Plate casting, finishing, and cooling machine. 2,285,680; June 9.

Röhm & Haas Company. (See Gröner, Erich, assignor.)

Roof, Jay L., Hamburg, N. Y. Damper or valve. 2,285,533; June 9.

Ross, Glenn W., Crockett, Calif. Abrading device. 2,285,874; June 9.

Rosser, Charles M. (See Cornwell, R. T. K., and Rosser.)

Rossman, John D., et al. (See Scott, John H., assignor.)

Roth, Ernest J., Norwood, N. J., assignor to Joe Lowe Corporation, New York, N. Y. Doughnut machine. 2,286,013; June 9.

Rousseau, Raymon E., Buffalo, and L. J. Strauss, Snyder, N. Y. Driving mechanism. 2,286,108; June 9.

Rowe, Robert, Woodside, assignor of 30% to S. S. Lieberman, New York, N. Y. Airplane angle indicator. 2,286,014; June 9.

Ruchser, Joseph, New York, N. Y. Invertible spectacle frame. 2,285,615; June 9.

Rundell, Theodore W., Indianapolis, Ind., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigeration apparatus. 2,285,945; June 9.

Rundell, Theodore W., Jenkintown, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Refrigerator construction. 2,286,109; June 9.

Running, William, Detroit, Mich. Diathermy apparatus. 2,286,110; June 9.

Rushing, Frank C., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Rotating assembly. 2,285,681; June 9.

Rust, John B., Verona, N. J., assignor to Ellis-Foster Company. Textile treating chemical and making same. 2,285,948; June 9.

Ruthruff, Robert F., Nutley, N. J. Preparation of phosphors. 2,285,464; June 9.

Ryan, George F., Peabody, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Mechanical movement. 2,285,534; June 9.

Sabins, Rolland C., Wisconsin Rapids, Wis. Construction for stoves. 2,285,746; June 9.

St. Louis, Charles V. (See Buenger E. F. and C. V. St. Louis.)

Samzelius, John W. Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Switch structure. 2,286,111. June 9.

Santomartino, Antonio. (See Cunningham, K. M., and Santomartino.)

Sateren, Martin G., West Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigeration apparatus. 2,285,947; June 9.

Saunders, Walter S., and R. R. Peterson, assignors to American Forging & Socket Company, Pontiac, Mich. Adjustable support. 2,285,616; June 9.

Schaefer, Henry, Jr. (See Carmody, Michael A., assignor.)

Scharles, Gus, and H. J. Storms, New York, N. Y. Ash tray. 2,286,040; June 9.

Schellenger, Newton C., El Paso, Tex., assignor to Chicago Telephone Supply Company, Elkhar, Ind. Switch construction. 2,286,162; June 9.

Schellenger, Newton C., El Paso, Tex., assignor to Chicago Telephone Supply Company, Elkhart, Ind. Switch construction. 2,286,163; June 9.

Scherbatskoy, Serge A., assignor to Well Surveys, Incorporated, Tulsa, Okla. Well survey mehod and apparatus. 2,285,840; June 9.

Schetski, Charles M. (See Marsh, F. E., and Schetski.)

Shick Incorporated. (See Burns, Cloyd E., assignor.)

Schick Incorporated. (See Harris, Sydney P., assignor.)

Schick Incorporated. (See Hicks, Reginald, assignor.)

Schiewe, Edward A. (See McKee, H. H, Metzen, and Schiewe.)

Schilgen, Friedrich. (See Leifer, A., and Schilgen.)

Schilling, Albert A., Stratford, Conn., and G. H. Latham, Wilmington, Del., assignors to Remington Arms Company, Inc. Wax decomposition inhibitor. 2,286,112; June 9.

Schlacter, Olga, Rock Springs, Wyo. Combined sweeper and dust pan. 2,286,113; June 9.

Schiehr, Walter R. (See Garwood, C. B., and Schiehr.)

Schlett, Otto, Bronx, N. Y. Fireplace display. 2,285,535; June 9.

Schneider, Benjamin B. (See Podbielniak, Walter J., assignor.)

Schneider, Emmor V., assignor to The Alliance Manufacturing Company, Alliance, Ohio. Turntable. 2,286,015; June 9.

Schott, Walter L., Los Angeles, Calif. Staple driver. 2,285,384; June 9.

Schultz, Alfred S., and L. Atkin, Bronx, and C. N. Frey, Scarsdale, assignors to Standard Brands Incorporated, New York, N. Y. Yeast preparation. 2,285,465; June 9.

Schwartz, Fred, assignor to Fort Howard Paper Company, Green Bay, Wis. Machine for waxing and plaiting paper. 2,285,617; June 9.

Schwartz, Hans-Fredi, and O. Baier, Berlin, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Lorensweg, Germany. Electromagnetic relay. 2,285,467; June 9.

Schwarzbach, George, Brooklyn, N. Y. Hydraulic variable speed transmission. 2,285,466; June 9.

Schweighart, Peter J., Sandusky, Ohio. Sewer trap. 2,285,756; June 9.

Schweitzer & Conrad, Inc. (See McMahon, George F., assignor.)

Scinta, Anthony C., assignor to Trico Products Corporation, Buffalo, N. Y. Windshield wiper mounting. 2,285,618; June 9.

Scott, Elizabeth M., Los Angeles, Calif. Corset. 2,285,619; June 9.

Scott, John A., St. Louis, Mo. Insole making machine 2,286,114; June 9.

Scott, John H., assignor of one-third to H. E. Blair and one-third to J. D. Rossman, Gary, Ind. Self lubricating center plate. 2,285,784; June 9.

Sears, Richard E. (See Norberg, C. F., and Sears.)

Sears, Richard E., assignor to Willard Storage Battery Company, Cleveland, Ohio. Battery charging apparatus. 2,285,620; June 9.

Seashore, Gunnar F., Minneapolis, Minn., assignor to C. G. Walters, Storm Lake, Iowa. Pliers. 2,285,683; June 9.

Seeley, Stuart W., Bayside, N. Y., assignor to Radio Corporation of America. Remote control system. 2,285,684; June 9.

Seguy, Jean D., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,285,785; June 9.

Seiberling Latex Products Company. (See Sidnell, Albert E., assignor.)

Servel, Inc. (See Ashby, Carl T., assignor.)

Servel, Inc. (See Thomas, Albert R., assignor.)

Seymour, George W., and B. B. White, Cumberland, Md., assignors to Celanese Corporation of America. Mixed cellulose esters. 2,285,536; June 9.

Shackelford, Frank H. (See Wagner, R. P., and Shackelford.)

Shafer, Samuel, Jr., assignor to Chain Belt Company, Milwaukee, Wis. Apparatus for charging and discharging concrete mixers. 2,285,685; June 9.

Shakespeare Company. (See Clickner, Earl D., assignor.)

Shanley, James J., Bartlesville, Okla., assignor to Phillips Petroleum Company. High pressure gas dispensing system. 2,285,686; June 9.

Sharma, Jagan N., Berkeley, assignor to Food Machinery Corporation, San Jose, Calif. Coloring fruit. 2,286,164; June 9.

Sharma, Jagan N., Los Angeles, assignor to Food Machinery Corporation, San Jose, Calif. Apparatus for treating fruit. 2,285,841; June 9.

Shell Development Company. (See Caselli, A. V., and Nixon, assignors.)
Shell Development Company. (See Dunn, Clarence L., assignor.)
Shell Development Company. (See Gage, William P., assignor.)
Shell Development Company. (See Leavitt, Floyd H., assignor.)
Shell Development Company. (See McAllister, Sumner H., assignor.)
Shell Development Company. (See Nörring, Otto, assignor.)
Shell Development Company. (See Van Ess, Paul R., assignor.)
Shell Development Company. (See White, E. R., and Walters, assignors.)
Shelton, Jack F., Memphis, Tenn. Air tempering apparatus. 2,286,115; June 9.
Shepard, Harold O., assignor to United Engineering and Foundry Company, Pittsburgh, Pa. Apparatus for annealing. 2,285,949; June 9.
Shipley, Bernis M., assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 2,286,116; June 9.
Sibley, Edward W., Kenmore, assignor to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner motor. 2,285,621; June 9.
Sidnell, Albert E., Akron, assignor to Sieberling Latex Products Company, Barberton, Ohio. Making perforate articles. 2,286,117; June 9.
Sickles, F. W., Company, The. (See Cutting, Fulton, assignor.)
Sidebotham, Melvin H., West Newton, Mass. Infold and outfold box machine. 2,285,537; June 9.
Sieberg, Albert. (See Bellefontaine, A., Bernard and Sieberg.)
Siekmann, Harold J. (See Groene, W. F., and Siekmann.)
Signal Service Corporation. (See Haggart, John C., Jr., assignor.)
Silberman, Jacob, Lima, Ohio. Package wrapping machine. 2,285,842; June 9.
Simon, Milton R., assignor to Western Hosiery Company, Chicago, Ill. Glove. 2,285,538; June 9.
Sinclair Refining Company. (See Campbell, O. F., and Pelzer, assignors.)
Sinden, Alfred de L., Aurora, Ill., assignor to Redler Conveyor Company, Quincy, Mass. Stoker feeding apparatus. 2,285,767; June 9.
Sladky, Joseph F., Racine, assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Signal horn switch. 2,286,016; June 9.
Slaughter, Charles E. (See Rodgers, J. L., Jr., and Slaughter.)
Slayter Electronic Corporation. (See Bennett, Willard H., assignor.)
Sleeth, John E., Spokane, Wash. Pipe hanger. 2,286,118; June 9.
Slepian, Joseph, Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Ion source. 2,285,622; June 9.
Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Draft device. 2,286,119; June 9.
Slunder, Charles J., Oakmont, assignor to Aluminum Company of America, Pittsburgh, Pa. Surface treatment for aluminum. 2,285,468; June 9.
Smith, Alton P., assignor of one-half to P. T. Cantrell, Wichita, Kans. Flatiron holder. 2,285,747; June 9.
Smith, Carleton H., Montreal, Quebec, Canada, assignor to National Lead Company, New York, N. Y. Cadmium removal. 2,286,017; June 9.
Smith, Floyd R., Wilkinsburg, Pa. Expansion joint. 2,286,019; June 9.
Smith, Floyd R., Wilkinsburg, Pa. Plastic sealing composition. 2,286,018; June 9.
Smith, Horace L., Jr., and L. N. Jones, Richmond, Va., assignors to The Guardite Corporation. Moistening tobacco. 2,285,469; June 9.
Smith, J. K., & Sons, Inc. (See Taylor, Rutherford H., assignor.)
Smith, Norman, Syracuse, N. Y. Steam electric flatiron. 2,285,757; June 9.
Smith, Roy M. (See West, C. P., Smith and Lewis, Jr.)
Smith, Uel L. (See Rights, H. T., and Smith.)
Smith, Wendell V., Nutley, N. J., assignor to United States Rubber Company, New York, N. Y. Nitrogen generating chemicals. 2,285,843; June 9.
Smith's, John E., Sons Company. (See Van Hooydonk, Adrian C., assignor.)
Smyth, David V., Waterbury, Conn., assignor to Vickers Incorporated, Detroit, Mich. Power transmission. 2,286,020; June 9.
Snow, Edward C. (See Egger, F. L., and Snow.)
Snyder, Frederick D., East Milton, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Reversing means for single-phase motors. 2,285,687; June 9.
Snyder, Purdum M., Sewickley, assignor to H. H. Robertson Company, Pittsburgh, Pa. Building material. 2,286,120; June 9.
Societe Anonyme des Industries Radioelectriques (S. A. D. I. R.) (See Lehmann, Gerard, assignor.)
Solarz, Sanford. (See Reynolds, Philip, assignor.)
Soltan, Alexander, Port Jervis, N. Y. Shoe sole trimming machine. 2,286,121; June 9.
Spaunburg, Harvey L., West Hartford, assignor to Veeder-Root Incorporated, Hartford, Conn. Counter. 2,285,844; June 9.
Square D Company. (See Kollsman, Paul, assignor.)
Srodulski, Joseph W., Chicago, Ill. Coin controlled attachment. 2,285,748; June 9.
Standard Brands Incorporated. (See Schultz, A. S., Atkin and Frey, assignors.)
Standard Oil Company of California. (See Batchelder, Augustus H., assignor.)
Stando, Joseph P., and K. W. Kennedy and R. J. Anschicks, assignors, by mesne assignments, to Prismacolor, Inc., Chicago, Ill. Plural lens mount. 2,285,470; June 9.
Stanford, Horrie B., Atlanta, Ga. Dental matrix clamp. 2,286,021; June 9.
Staples, John A., University City, and T. Lewin, Clayton, Mo., assignors to Lewin-Mathes Company, East St. Louis, Ill. Drawing mandrel or plug. 2,285,539; June 9.
Stapp, William A., Elko, Nev. Steam pipe ball joint coupling. 2,286,122; June 9.
Starck, William H., West Chicago, Ill. Contact selector. 2,286,022; June 9.
Stationers Loose Leaf Company. (See Lotter, Adolph G., assignor.)
Steel Fabricators Co. (See Chapman, Mary M., assignor.)
Steel Sanitary Company. (See Clark, Harold W., assignor.)
Steele, James W., North Kansas City, Mo. Wrapping band and securing means. 2,286,181; June 9.
Steers, William F., Audubon, N. J., assignor to Radio Corporation of America. Electromagnetic transducer. 2,286,123; June 9.
Stein, Irving M., Philadelphia, and J. C. Peters, Jenkintown, assignors to Leeds and Northrup Company, Philadelphia, Pa. Control system. 2,285,540; June 9.
Steinbacher, Harold E., executor. (See Rehthaler, Louis M.)
Stern, Raphael L., South River, N. J., assignor to Hercules Powder Company, Wilmington, Del. Cellulose acetate molding composition. 2,286,041; June 9.
Stewart-Warner Corporation. (See Whitted, John B., assignor.)
Stillmen, Walter W., et al. (See Wefers, Martin, assignor.)
Stinson, Richard, Athol, Mass. High chair and tray locking device therefor. 2,285,845; June 9.
Stocker, William M., Hollis, assignor to Cameron Machine Company, Brooklyn, N. Y. Slitting device. 2,285,846; June 9.
Stoffel, Lester L., Lakewood, assignor to The Ohio Carbon Company, Cleveland, Ohio. Electric lamp assembly. 2,285,875; June 9.
Storck, Frank F., Chicago, Ill. Can perforator and closure. 2,286,124; June 9.
Storkline Furniture Corporation. (See Feldman, Abraham G., assignor.)
Storms, Harry J. (See Scharles, G., and Storms.)
Strang, Harold E., Ardmore, Pa., assignor to General Electric Company. Pneumatic operating mechanism for circuit breakers. 2,286,023; June 9.
Strauss, Luke J. (See Rousseau, R. E., and Strauss.)
Stuart, William W., Des Moines, Iowa. Flow control mechanism. 2,285,749; June 9.
Stull, John S., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Article forming apparatus. 2,285,688; June 9.
Sturgess, Inc. (See Sturgess, John, assignor.)
Sturgess, John, Glendale, assignor to Sturgess, Inc., Los Angeles, Calif. Cable tension indicator. 2,285,471; June 9.
Sturken, Oswald C., Closter, N. J., assignor, by mesne assignments, to Corn Products Refining Company, New York, N. Y. Curing zein. 2,285,758; June 9.
Suddeutsche Apparate-Fabrik G. m. b. H. (See Fenner, Eckard, assignor.)
Sullivan, William N., Washington, D. C., and L. D. Goodhue, Berwyn, Md., dedicated to the free use of the People in the territory of the United States. Applying insecticides. 2,285,950; June 9.
Suter, Alexander, Teufenthal, assignor to the firm Injecta Aktiengesellschaft, Teufenthal, Aargau, Switzerland. Film trimming and gluing apparatus. 2,285,759; June 9.
Sveda, Michael, Cleveland, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical processes. 2,286,125; June 9.
Swain, Robert C., Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y. Purifying water. 2,285,750; June 9.
Swenson, Carl E., and E. B. Anderson, Rockford, Ill., assignors to Borg-Warner Corporation, Chicago, Ill. Universal joint. 2,285,623; June 9.
Swift, Stanley H., Saginaw, Mich. Wheel locking device. 2,285,541; June 9.
Sylvania Industrial Corporation. (See Cornwell, R. T. K., and Rosser, assignors.)
Tama, Manuel and M., Morrisville, Pa., assignors to Ajax Electrothermic Corporation, Ajax Park, N. J. Coreless induction furnace for melting metals. 2,286,024; June 9.
Tama, Mario. (See Tama, Manuel and M.)

Tamaki, Hisaho, Toronto, Ontario, Canada. Pull tab attachment for galoshes. 2,285,751; June 9.
Tanner, Elo C., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Elimination of contact burning on controls. 2,285,624; June 9.
Tasker, Homer G., Los Angeles, Calif. Wrapper. 2,285,542; June 9.
Taylor, Charles M. (See Houghton, A. A., and Taylor.)
Taylor, Fred L., and J. E. Livak, assignors to The Dow Chemical Company, Midland, Mich. α-phenylethyl substituted alkoxy-phenols. 2,285,625; June 9.
Taylor, Fred L., and J. E. Livak, assignors to The Dow Chemical Company, Midland, Mich. Substituted phenol. 2,285,626; June 9.
Taylor, Rea A. (See Jennings, L. D., and Taylor.)
Taylor, Rutherford H., Millburn, N. J., assignor to J. K. Smit & Sons, Inc., New York, N. Y. Apparatus for making diamond tools. 2,285,847; June 9.
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Bergtold, Fritz, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Hewel, Horst, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Leifer, A., and Schilgen, assignors.)
Tenenbaum, Milton, Brooklyn, N. Y. Figure. 2,285,472; June 9.
Texas Company, The. (See Veltman, Preston L., assignor.)
Thacker, Ralph S. (See Harvey, H., and Thacker.)
Thomas, Albert R., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,286,025; June 9.
Thomas, Charles A., and H. E. Morris, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Hydrohalogenation process. 2,285,473; June 9.
Thomas, Charles L. (See Danforth, J. D., and Thomas.)
Thomas, Lewis H., Grosse Pointe, Mich. Vehicle construction. 2,285,543; June 9.
Thompson, Albert R., Los Gatos, assignor to Food Machinery Corporation, San Jose, Calif. Filling machine. 2,285,627; June 9.
Thompson, Earl A., Birmingham, assignor to General Motors Corporation, Detroit, Mich. Change speed gearing with automatic overdrive. 2,285,760; June 9.
Thornhill, Charles W., Houston, Tex. Well cementing apparatus. 2,286,126; June 9.
Tighe, Richard F., et al. (See Wefers, Martin, assignor.)
Tinnerman, George A., assignor, by mesne assignments, to Tinnerman Products, Inc., Cleveland, Ohio. Fastening device. 2,286,042; June 9.
Tinnerman Products, Inc. (See Tinnerman, George A., assignor.)
Titanium Alloy Manufacturing Company, The. (See Kinzie, C. J., and Hake, assignors.)
Toledo Scale Company. (See Bohannan, Robert S., assignor.)
Toledo Scale Company. (See Hem, Halvor O., assignor.)
Toledo Scale Company. (See Jerome, A. J., and Weckerly, assignors.)
Tomlinson, George H., Westmount, Quebec, Canada. Waste sulphite liquor recovery. 2,285,876; June 9.
Tönnies, Hans F., Hamburg-Grossflottbek, Germany. Photographic exposure apparatus. 2,285,761; June 9.
Towler, Frank H. (See Towler, J. M. and F. H.)
Towler, John M. and F. H., Yorkshire, England. Hydraulic valve. 2,286,026; June 9.
Towler, John M. and F. H., Yorkshire, England. Hydraulic reducing valve. 2,286,027; June 9.
Transit Research Corporation. (See Piron, Emil H., assignor.)
Traylor, William N., Hattiesburg, Miss., assignor to Hercules Powder Company, Wilmington, Del. Producing a purified gum rosin and turpentine from crude oleoresin. 2,285,628; June 9.
Trico Products Corporation. (See Horton, Erwin C., assignor.)
Trico Products Corporation. (See Horton, E. C., and Rappl, assignors.)
Trico Products Corporation. (See Scinta, Anthony C., assignor.)
Trico Products Corporation. (See Sibley, Edward W., assignor.)
Trogan, Richard B., Saginaw, Mich. Telltale for automobile lights. 2,285,544; June 9.
Troxel Manufacturing Company, The. (See Kalter, Harold E., assignor.)
Trumbull Electric Manufacturing Company, The. (See Getchell, Benjamin E., assignor.)
Tubize Chattilon Corporation. (See Kontz, Ernest C., Jr., assignor.)
Tucker, Benjamin W., Jr. (See Norton, C., and Tucker.)
Tullis, Boyd W., assignor to The Coleman Lamp and Stove Company, Wichita, Kans. Atomizer. 2,285,689; June 9.
Turner, Winthrop C., assignor to Ames Baldwin Wyoming Co., Parkersburg, W. Va. Shovel. 2,285,629; June 9.
Tuttle, Frank B., Schenectady, N. Y., assignor to General Electric Company. Welding apparatus. 2,286,028; June 9.
Tuwiner, Sidney B., Kew Gardens, and W. H. Osborn, assignors to Phelps Dodge Corporation, New York, N. Y. Electrodeposition of copper powder. 2,285,762; June 9.
Tweedale, Ralph L. (See Harrington, F. T., and Tweedale.)
Tweeten, Oscar Henry, Chicago, Ill. Crayon pencil. 2,285,630; June 9.
Underwood Elliott Fisher Company. (See Anderson, Walter A., assignor.)
Unger, Paul O., Elmhurst, assignor to Wilson-Jones Company, Chicago, Ill. Rack. 2,286,128; June 9.
Union Asbestos & Rubber Company. (See Astley, William F., assignor.)
Union Asbestos & Rubber Company. (See Mosier, C., and Mohun, assignors.)
Union Oil Company of California. (See Ragatz, Edward G., assignor.)
Union Switch & Signal Company, The. (See Allen, Earl M., assignor.)
Union Switch & Signal Company, The. (See Allison, Leslie R., assignor.)
Union Switch & Signal Company, The. (See Blosser, Herman G., assignor.)
Union Switch & Signal Company, The. (See Mishelevich, Benjamin, assignor.)
Union Switch & Signal Company, The. (See Nicholson, F. H., assignor.)
Union Switch & Signal Company, The. (See Pelikan, John M., assignor.)
Union Switch and Signal Company, The. (See Pelikan, J. M., and Mills, assignors.)
United Engineering and Foundry Company. (See Shepard, Harold O., assignor.)
United Shoe Machinery Corporation. (See Ashworth, Fred, assignor.)
United Shoe Machinery Corporation. (See Blanchard, Benjamin B., assignor.)
United Shoe Machinery Corporation. (See Kestell, Thomas A., assignor.)
United Shoe Machinery Corporation. (See Ryan, George F., assignor.)
United States, Government of the, as represented by the Secretary of Commerce. (See Dunmore, Francis W., assignor.)
United States Hoffman Machinery Corporation. (See Meyer, H. C. A., and Clarke, assignors.)
United States Plywood Corporation. (See Deskey, Donald, assignor.)
United States Rubber Company. (See Hanslick, Roy S., assignor.)
United States Rubber Company. (See Mann, James U., assignor.)
United States Rubber Company. (See Smith, Wendell V., assignor.)
Universal Oil Products Company. (See Danforth, J. D., and Thomas, assignors.)
Universal Oil Products Company. (See Hulsberg, Herbert A., assignor.)
Universal Oil Products Company. (See Komarewsky, Vasili I., assignor.)
Universal Oil Products Company. (See Seguy, Jean D., assignor.)
Universal Winding Company. (See Jones, Charles H., assignor.)
Urbain, Leon F., Chicago, Ill. Acoustical tile. 2,285,631; June 9.
Urbain, Leon F., Chicago, Ill. Storage rack. 2,285,632; June 9.
Urie, Rolland W., Parsons, Kans. Bed. 2,285,474; June 9.
Vacuum-Science Products Limited. (See van den Bosch, Francois J. G., assignor.)
Valliere, Arthur, Newtonville, Mass. Religious shrine. 2,286,127; June 9.
Valusek, Ladd J., Fenton, assignor to General Motors Corporation, Detroit, Mich. Material handling device. 2,285,475; June 9.
Van Beuren, John M., assignor to Measurements Corporation, Boonton, N. J. High frequency resistance device. 2,286,029; June 9.
van den Bosch, F. J. G., Horley, assignor to Vacuum-Science Products Limited, London, England. Electron multiplier. 2,285,848; June 9.
Van Ess, Paul R., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Anticorrosive. 2,285,752; June 9.
Van Hooydonk, Adrian C., assignor to J. E. Smith's Sons Company, Buffalo, N. Y. Bacon skinning machine. 2,285,951; June 9.
Vasel, Gustav A., Philadelphia, Pa. Printer's blanket. 2,285,763; June 9.
Veeder-Root Incorporated. (See Moriarty, Thomas J., assignor.)
Veeder-Root Incorporated. (See Spaunburg, Harvey L., assignor.)
Veit, Hermann E., Parkville, assignor to The Glenn L. Martin Company, Baltimore, Md. Wire feeding device. 2,285,690; June 9.
Veltman, Preston L., Fishkill, assignor, by mesne assignments, to The Texas Company, New York, N. Y. Catalysis. 2,286,129; June 9.
Venable, Emerson, Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Relay. 2,285,633; June 9.
Venango Engineering Co. (See Robertson, Alexander, assignor.)

Vera, Lawrence L., Santa Cruz, Calif. Box. 2,285,786; June 9.
Vergobbi, Robert W., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Packaging machine. 2,286,130; June 9.
Vickers Incorporated. (See Harrington, F. T., and Tweedale, assignors.)
Vickers Incorporated. (See Smyth, David W., assignor.)
Victor Equipment Company. (See Heinemann, Richard F., assignor.)
Vogel, Oliver G., Oak Park, Ill., and L. Navias, Schenectady, N. Y., assignors to Edison General Electric Appliance Company, Inc., Chicago, Ill. Electric heater insulating material. 2,285,952; June 9.
von Issendorff, Jürgen, and K. Maertens, Berlin-Siemensstadt, Germany, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Conversion system. 2,285,634; June 9.
von Mehren, Oswald D. (See Kintzing, R. T., von Mehren, and Gary.)
Vossler, Henry, assignor to Imperial Knife Company, Inc., Providence, R. I. Knife. 2,285,635; June 9.
Wackman, Louis B., Richmond Heights, Mo. Anchored drum plug fixture. 2,286,175; June 9.
Wagner Electric Corporation. (See Freeman, Walter R., assignor.)
Wagner, Reinhard P., and F. H. Shackelford, Spokane, Wash. Battery cable terminal. 2,285,545; June 9.
Wahlberg, Nils E., assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Water pump. 2,285,953; June 9.
Wahlberg, Nils E., assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Spring suspension. 2,285,954; June 9.
Wahlmark, Gunnar A., Rockford, Ill. Fluid motor. 2,285,476; June 9.
Wainwright, Carlyle H., assignor to The Bentley Engineering Company Limited, Leicester, England. Circular knitting machine. 2,285,877; June 9.
Wallace, Charles F., Westfield, assignor to Wallace & Tiernan Products, Inc., Belleville, N. J. Electric generator apparatus. 2,285,849; June 9.
Wallace, David A., assignor of one-fourth to E. Wallace, Detroit, Mich., and one-fourth to G. Wallace, Burwell, Nebr. Ski tow mechanism. 2,285,636; June 9.
Wallace, Eugene, et al. (See Wallace, David A., assignor.)
Wallace, Gaylord, et al. (See Wallace, David A., assignor.)
Wallace, James M., Braddock, and H. L. Rawlins, Wilkinsburg, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Disconnecting switch. 2,286,131; June 9.
Wallace & Tiernan Products, Inc. (See Wallace, Charles F., assignor.)
Walle, Michael P., Hibbing, Minn. Separator. 2,286,132; June 9.
Walters, Charles G. (See Seashore, Gunnar F., assignor.)
Walters, Ernest L. (See White, E. R., and Walters.)
Warner & Swasey Company, The. (See Darash, Nicholas P., assignor.)
Warren Telechron Company. (See Neyhart, Arthur P., assignor.)
Wayland, Edwin M., Covesville, Va. Fruit sizing and grading machine. 2,285,955; June 9.
Weber, Emil R., Allison Park, assignor to J. H. Matthews & Company, Pittsburgh, Pa. Resilient mounting for stamps in stamp holders. 2,285,956; June 9.
Weckerly, Mark A. (See Jerome, A. J., and Weckerly.)
Weeks, Walter L., Glen Rock, N. J., assignor to Wright Aeronautical Corporation. Spring ring hose clamp. 2,285,850; June 9.
Wefers, Martin, Union, assignor to C. J. Parkhill, Newark, R. F. Tighe, Maplewood, and W. W. Stillmen, Tenafly, N. J. Compression chamber leakage tester. 2,285,546; June 9.
Wegener, Johannes, Berlin-Johannisthal, M. Zühlke, Berlin, and F. Koppelmann, Berlin-Siemensstadt, Germany, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Switching device. 2,285,691; June 9.
Weiler, Henry A., Georgetown, Calif. Butter server. 2,285,637; June 9.
Welch, Daniel D., Milwaukee, Wis. Hedge trimmer. 2,286,043; June 9.
Well Surveys, Incorporated. (See Davis, Robert F., assignor.)
Well Surveys, Incorporated. (See Scherbatskoy, Serge A., assignor.)
Wesley, Andrew, Plainfield, N. J., assignor to The International Nickel Company, Inc., New York, N. Y. Electrodepositing an adherent coating of copper on chromium-containing alloys of iron and/or nickel. 2,285,548; June 9.
Wesley, Andrew, Plainfield, and H. R. Copson, Westfield, N. J., assignors to The International Nickel Company, Inc., New York, N. Y. Process of electrodepositing an adherent layer of copper from copper refinery electrolyte on alloys of iron and/or nickel containing chromium. 2,285,549; June 9.
West, Charles P., Forest Hills, Pa., R. M. Smith, Livingston, N. J., and W. A. Lewis, Jr., Ithaca, N. Y., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Detachable relay. 2,286,044; June 9.
Western Cartridge Company. (See Kopp, W. R., and Blue, assignors.)
Western Electric Company. (See den Hertog, Martinus, assignor.)
Western Electric Company. (See Dixon, A. L., and Lutz, assignors.)
Western Electric Company. (See Stull, John S., assignor.)
Western Hosiery Company. (See Simon, Milton R., assignor.)
Western Newell Mfg. Co. (See Maves, Stanley E., assignor.)
Western Union Telegraph Company. (See Allen, Alton K., assignor.)
Westinghouse Electric Elevator Company. (See Myers, Julius D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Batten, Wendell B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Beleredorf, H., Haese, and Müller, assignors.)
Westinghouse Electric & Manufacturing Company. (See Blets, Edward, assignor.)
Westinghouse Electric & Manufacturing Company. (See Else, Harry D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Fischer, Frederick K., assignor.)
Westinghouse Electric & Manufacturing Company. (See Gary, Clarence E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Halvarson, Gustaf A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hanna, C. R., and Mikina, assignors.)
Westinghouse Electric & Manufacturing Company. (See Hanson, Harold F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Harrison, John W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hitchcock, Richard C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hutcheson, John A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jennings, L. D., and Taylor, assignors.)
Westinghouse Electric & Manufacturing Company. (See Johnson, Welton V., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jones, Ruel C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kallscher, Milton, assignor.)
Westinghouse Electric & Manufacturing Company. (See Kimball, Albert W., assignor.)
Westinghouse Electric & Manufacturing Company. (See King, George E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kintzing, R. T., von Mehren, and Gary, assignors.)
Westinghouse Electric & Manufacturing Company. (See Lingal, Harry J., assignor.)
Westinghouse Electric & Manufacturing Company. (See McShane, Phelan, assignor.)
Westinghouse Electric & Manufacturing Company. (See Peters, J. F., and Wright, assignors.)
Westinghouse Electric & Manufacturing Company. (See Pickels, George W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Pontius, Peter A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Price, George E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Rights, H. T., and Smith, assignors.)
Westinghouse Electric & Manufacturing Company. (See Rundell, Theodore W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Rushing, Frank C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Samzelius, John W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Sateren, Martin G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
Westinghouse Electric & Manufacturing Company. (See Snyder, Frederick D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Tanner, Elo C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Venable, Emerson, assignor.)
Westinghouse Electric & Manufacturing Company. (See von Issendorff, J., and Maertens, assignors.)
Westinghouse Electric & Manufacturing Company. (See Wallace, J. M., and Rawlins, assignors.)
Westinghouse Electric & Manufacturing Company. (See Wegener, J., Zuhlke, and Koppelmann, assignors.)
Westinghouse Electric & Manufacturing Company. (See West, C. P., Smith and Lewis, Jr., assignors.)
Westinghouse Electric & Manufacturing Company. (See Zworykin, Vladimir K., assignor.)
Weston Electrical Instrument Corporation. (See Lamb, Anthony H., assignor.)
Wheeler, Harold A., Great Neck, N. Y., assignor to Hazeltine Corporation. Balanced frequency detector. 2,285,957; June 9.
Wheelock, Edwin M., St. Louis Park, Minn. Means for massaging the feet. 2,285,958; June 9.
Whelan, George M., Bothell, assignor of one-half to North Coast Cleaners & Dyers, Inc., Seattle, Wash. Extractor loading and unloading equipment. 2,285,547; June 9.
White, Blanche B. (See Seymour, G. W., and White.)

White, Ellis R., Albany, and E. L. Walters, assignors to Shell Development Company, San Francisco, Calif. Composition containing metal deactivators and preparing the same. 2,285,878; June 9.
White, John F., Medford, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Producing sols. 2,285,477; June 9.
White, John R., Belmont, and J. Avery Dunn, Newtonville, Mass., assignors to Lever Brothers Company. Making edible products and material for use therein. 2,285,478; June 9.
Whited, Edna K. (See Knutson, Alfred W., assignor.)
Whitehouse, John N., New York, N. Y. Making tubes of pyroxylin material or the like. 2,286,045; June 9.
Whitted, John B., Glencoe, assignor to Stewart-Warner Corporation, Chicago, Ill. Electric switch. 2,285,479; June 9.
Wickman, Axel C., Tile Hill, Coventry, England. Trimming shaped grinding wheels. 2,286,046; June 9.
Wickman, Lauri A., San Francisco, Calif. Work garment. 2,285,692; June 9.
Wickwire Brothers. (See Edick, H. L., and Wickwire, assignors.)
Wickwire, Chester F. (See Edick, H. L., and Wickwire.)
Wilde, Raymond A., assignor of one-half to C. B. Lumber & Shingle Company, Everett, Wash. Fabricated shingle panel. 2,285,480; June 9.
Willard Storage Battery Company. (See Norberg, C. F., and Sears, assignors.)
Willard Storage Battery Company. (See Sears, Richard E., assignor.)
Williams, David M., Godwin, N. C. Firearm. 2,286,133; June 9.
Wilson, Charles R., Los Angeles, Calif. Building block. 2,285,693; June 9.
Wilson-Jones Company. (See Buenger, E. F., and C. V., St. Louis, assignors.)
Wilson-Jones Company. (See Unger, Paul G., assignor.)
Wingfoot Corporation. (See Haase, Jorgen L., assignor.)
Winslow, Albert E., New London, Conn., assignor to Atwood Machine Company. Spinning and twisting frame. 2,285,879; June 9.
Winsor & Jerauld Manufacturing Company. (See MacKnight, Harry A., assignor.)
Wood, Ellsworth F., Somers, and M. Gautreau, Somersville, Conn. Loom apparatus. 2,285,787; June 9.
Wood Newspaper Machinery Corporation. (See Roesen, Oscar C., assignor.)
Woodling, George V., Cleveland, Ohio, assignor to General Motors Corporation. Air conditioning. 2,285,481; June 9.
Woods, Andrew, assignor of one-half to George Easton, Porterville, Calif. Disk control and draft unit. 2,285,550; June 9.
Woodson, Lewis G., Birmingham, Ala. Refrigerating apparatus. 2,285,788; June 9.
Woolley, Ace W., Longmont, Colo. Airplane trap. 2,285,789; June 9.
Wright Aeronautical Corporation. (See Weeks, Walter L., assignor.)
Wright, Ralph H. (See Peters, J. F., and Wright.)
Wunsch, Felix, assignor to Leeds & Northrup Company, Philadelphia, Pa. Method of and apparatus for measuring. 2,285,482; June 9.
Wyler, Max, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Manufacture of sulpho-trimellitic acid. 2,285,483; June 9.
Yochum, Daniel W. (See Faris, H. P., Yochum and Logan.)
York Oil Burner Co. (See Frank, George D., assignor.)
Young, Leonard A., Detroit, Mich. Shelf or rack for refrigerators, ovens, and the like. 2,285,764; June 9.
Young, Leonard A., Detroit, Mich. Cutting implement. 2,286,047; June 9.
Young, Robert W., and A. Loomis, assignors to C. G. Conn, Ltd., Elkhart, Ind. Stroboscope. 2,286,030; June 9.
Zemba, John W. (See Britton, E. C., Coleman and Zemba.)
Zerbe, Thomas C., et al. (See Eslinger, Russel L., assignor.)
Zuhlke, Marcel. (See Wegener, J., Zuhlke and Koppelmann.)
Zworykin, Vladimir K., Forest Hills, N. Y., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. View-transmission system. 2,285,551; June 9.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 9TH DAY OF JUNE, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Control of broadcasting by keys. A. D. Trenor. Re. 22,111; June 9.
Greeting replica. H. Hayes. Re. 22,109; June 9.
Sheathing to metal, Securing. J. D. Crecca. Re. 22,108; June 9.
Television broadcast system. H. A. Wheeler. Re. 22,112; June 9.
Testing and recording machine, Gear. O. J. Poupitch. Re. 22,110; June 9.

LIST OF PLANT INVENTIONS

Phlox. E. H. Schultz. 527; June 9.

LIST OF DESIGN INVENTIONS

Badge or similar article. E. Flood. 132,667; June 9.
Badge or similar article. L. A. Leppke. 132,736; June 9.
Badge or similar article. E. H. Millican. 132,702; June 9.
Badge or similar article. F. H. Rasmussen. 132,689; June 9.
Badge or similar article. E. Y. Webb, Jr. 132,693; June 9.
Badge or similar article. E. S. West. 132,730; June 9.
Badge or similar article. M. Wittmann. 132,705; June 9.
Banner or the like. L. O. Redding. 132,690; June 9.
Bar, Towel. R. S. Sanford. 132,710–11; June 9.
Bench or similar article. M. G. Marrone. 132,674; June 9.
Bottle. M. S. Ireys. 132,699; June 9.
Bottle or the like. W. Bell. 132,732; June 9.
Brooch or similar article. C. M. Boyle. 132,696; June 9.
Brooch or similar article. C. A. Jakobb. 132,718; June 9.
Brush attachment for suction tools, Floor. D. M. Dow. 132,715; June 9.
Buckle. P. W. White. 132,679; June 9.
Button or similar article, Lapel. C. W. Cofield. 132,714; June 9.
Cabinet, Combination phonograph and radio. M. S. Eisman. 132,716; June 9.
Cabinet, Mirrored. A. Marchand. 132,737; June 9.
Cabinet, Phonograph. H. T. Roberts. 132,724; June 9.
Cards, Deck of playing. J. P. McManus. 132,701; June 9.
Case, Folding cigarette. R. R. Miller. 132,739; June 9.
Case for safety razors and shaving accessories. M. Hollis. 132,698; June 9.
Casing, Fan. J. W. Houston. 132,685; June 9.
Curtain or similar article. E. P. Bixer. 132,713; June 9.
Drawer. M. E. Kupperman. 132,687; June 9.
Dress. A. L. S. Carroll. 132,750–5; June 9.
Dress. L. Simmons. 132,758; June 9.
Extractor, Fruit juice. H. J. Talge. 132,678; June 9.
File, Record holder. J. E. Schenker. 132,746; June 9.
Food service unit, Mobile. J. C. Dinsmore. 132,749; June 9.
Frame or similar article, Folding back rest. S. D. Anderson. 132,731; June 9.
Frame, Picture. C. Tarnopoll. 132,727; June 9.
Frame, Truck. G. M. Dykes. 132,709; June 9.
Frame member, Velocipede. S. J. Jenkins. 132,686; June 9.
Handbag. R. Appel. 132,694; June 9.
Handle controller, Dual. E. J. Panish. 132,723; June 9.
Hat, Combination sport and dress. F. Lacome. 132,756; June 9.
Hat. M. Solash. 132,726; June 9.
Holder, Condiment. J. Fess. 132,666; June 9.
Holder, Lipstick. N. S. Varin. 132,729; June 9.
Holder, Tie. G. M. Munk. 132,675; June 9.
Jacket or similar article. M. Shapiro. 132,757; June 9.
Jar or similar receptacle. H. Worth and M. D. Goldsmith. 132,706; June 9.
Jewelry finding. E. Arens. 132,681; June 9.
Lamp or similar article. C. H. Gould. 132,734; June 9.
Lantern, Projecting. C. F. Dutton. 132,665; June 9.
Machine for peening and reshaping pistons. V. F. Lippard. 132,719; June 9.
Marker and line guide, Combined book. E. Mears. 132,720; June 9.
Match folder. R. R. Isenhour. 132,735; June 9.
Microphone and loudspeaker, Combined desk. W. J. O'Neil. 132,743; June 9.
Motorboat. G. Forton. 132,682; June 9.
Pen or similar article, Fountain. H. Dreyfuss. 132,663–4; June 9.
Pick, Mandolin. H. Galetzky. 132,717; June 9.
Pin, Jewelry. M. C. Meyer. 132,721–2; June 9.
Pin, Jewelry. M. C. Meyer. 132,738; June 9.
Pin or similar article. J. N. Powell. 132,688; June 9.
Pin or the like. A. G. Trimble. 132,728; June 9.
Pitcher. C. W. Sawyer. 132,677; June 9.
Plaque. J. W. Ziegler. 132,707; June 9.
Projector, Illuminating. W. F. Peck and J. T. Armbruster. 132,744; June 9.
Rack, Clothing. T. Sokolove. 132,725; June 9.
Retinoscope or the like. W. F. Peck, A. A. Gradisar, and J. T. Armbruster. 132,703; June 9.
Ring, Wedding. P. Krasnow. 132,670–3; June 9.
Sandal or similar article. H. A. Jarvis. 132,700; June 9.
Shaker, pepper shaker, and tray therefor, Combined salt. S. J. Carnes. 132,662; June 9.
Sign. A. C. Frisbie, Jr. 132,669; June 9.
Stand or similar article, Shoe. G. R. Berns. 132,733; June 9.
Stepladder. P. Roberts. 132,676; June 9.
Textile fabric. J. H. Abt. 132,680; June 9.
Textile fabric. H. W. Wilde. 132,747–8; June 9.
Textile fabric or similar article. C. Rosenstein. 132,745; June 9.
Textile fabric or the like. H. Slater. 132,704; June 9.
Tire. H. Franz. 132,668; June 9.
Tire. J. E. Hale. 132,684; June 9.
Tool driver. M. E. Foster. 132,683; June 9.
Toy pistol. J. E. Brubaker. 132,661; June 9.
Tractor and implement unit, Combined. R. G. Le Tourneau. 132,742; June 9.
Trailer, House. R. R. Anderson. 132,708; June 9.
Transmitter and receiver or similar article, Radio telephone. C. J. Collom. 132,741; June 9.
Tray, Smoker's. W. H. Miller. 132,740; June 9.
Truck, Maintenance service. H. J. Troche and J. H. Holan, Jr. 132,712; June 9.
Vacuum cleaner. P. E. Frantz. 132,697; June 9.
Vase. C. W. Sawyer. 132,691–2; June 9.
Wallet. H. P. Behrman. 132,695; June 9.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 9TH DAY OF JUNE, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrading device. G. W. Ross. 2,285,874; June 9.
Accelerator, Vulcanization. R. S. Hanslick. 2,285,813; June 9.
Accounting machine. W. A. Anderson. 2,285,640; June 9.
Acid, Manufacture of sulpho-trimellitic. M. Wyler. 2,285,483; June 9.
Acids, Crystallization of hydroxycarboxylic. W. W. Beck and C. H. Hamblet. 2,285,886; June 9.
Acids, System for manufacturing sulphonic. R. L. Brandt. 2,285,390; June 9.
Adhesive material. E. Pragoff, Jr. 2,285,458; June 9.
Adhesives, Pressure-sensitive. C. F. Cummins and K. D. Bacon. 2,285,570; June 9.
Adjustable support. W. S. Saunders and R. R. Peterson. 2,285,616; June 9.
Adjustable wrench. L. C. Mead. 2,285,603; June 9.
Adjusting system for field glasses. J. A. V. Benard. 2,285,388; June 9.
Aerial or aerial system. E. C. Cork and J. L. Pawsey. 2,285,395; June 9.
Agitating and flow controlling means for bake oven atmosphere. J. A. Baker. 2,286,049; June 9.
Air conditioner. G. A. Kneedler. 2,285,725; June 9.
Air conditioning. G. V. Woodling. 2,285,481; June 9.
Air heater. C. C. Isaacson. 2,285,718; June 9.
Air tempering apparatus. J. F. Shelton. 2,286,115; June 9.
Aircraft heater. H. J. De N. McCollum. 2,285,672; June 9.
Airplane angle indicator. R. Rowe. 2,286,014; June 9.
Airplane trap. A. W. Woolley. 2,285,789; June 9.
Airport barricade guard. A. F. Johnston. 2,285,664; June 9.
Alcohols, Preparation of polyhydric. D. J. Loder. 2,285,448; June 9.
Aldehydes, Preparation of substituted. W. F. Gresham. 2,286,034; June 9.
Aldehydes, Process for the preparation of substituted glyceric. D. J. Loder. 2,286,037; June 9.
Alloy: *See*—
Magnesium base alloy.
α-phenylethyl substituted alkoxy-phenols. F. L. Taylor and J. E. Livak. 2,285,625; June 9.
Amines, Aliphatic. J. B. Dickey and A. R. Gray. 2,285,419; June 9.
Ammunition. C. D. Coxe. 2,286,064; June 9.
Amplification control, Automatic. G. M. Brown. 2,285,895–6; June 9.
Amplifier. N. E. Lindenblad. 2,285,729; June 9.
Amplifier, Feedback. E. H. Perkins. 2,285,832; June 9.
Anchor or deadman, Ground. L. M. Blanchard. 2,285,889; June 9.
Announcing machine and system. J. L. Franklin. 2,285,425; June 9.
Antenna. G. Lehmann. 2,285,669; June 9.
Antenna, Directive. E. Bruce. 2,285,565; June 9.
Antenna, Wide band. N. E. Lindenblad. 2,286,179; June 9.
Anticorrosive. P. R. Van Ess. 2,285,752; June 9.
Apparatus for and method of receiving and recording vibrations. O. F. Ritzmann. 2,286,106; June 9.
Apparatus for annealing. H. O. Shepard. 2,285,949; June 9.
Apparatus for applying surface coatings, as paint, to paper, as bread wrapping, etc. C. M. Rhodes and L. L. McGladrey. 2,285,531; June 9.
Apparatus for cementing soles on shoes. J. Amico. 2,285,398; June 9.
Apparatus for charging and discharging concrete mixers. S. Shafer, Jr. 2,285,685; June 9.
Apparatus for forming fuel charges for internal combustion engines. K. M. Cunningham and A. Santomartino. 2,285,905; June 9.
Apparatus for making carpets. H. P. Faris, D. W. Yochum and R. B. Logan. 2,285,650; June 9.
Apparatus for making diamond tools. R. H. Taylor. 2,285,847; June 9.
Apparatus for making metallic receptacles. H. W. Clark. 2,285,903; June 9.
Apparatus for operating vibratory conveyers or motors. H. H. Hittson. 2,285,434; June 9.
Apparatus for producing finned cylinder barrels. A. W. Gay. 2,285,812; June 9.
Apparatus for producing solid and tubular products from undercooled molten material. J. M. Merle. 2,285,740; June 9.
Apparatus for proportioning the flow of fluids. J. J. Maxon. 2,286,173; June 9.
Apparatus for testing intestines. F. G. Leavenworth. 2,286,172; June 9.
Apparatus for treating fruit. J. N. Sharma. 2,285,841; June 9.
Apparatus for withdrawing liquids from closed containers. F. J. Harlow. 2,285,710; June 9.
Apron, Conveyor. C. E. Brittell. 2,286,055; June 9.
Arc chute for electric circuit breakers. H. Beiersdorf, K. Haese and O. Müller. 2,285,643; June 9.
Article forming apparatus. J. S. Stull. 2,285,688; June 9.
Article, Reinforced sheet metal. M. L. Hunker. 2,285,977; June 9.
Articles, Making perforate. A. E. Sidnell. 2,286,117; June 9.
Ash tray. G. Scharles and H. J. Storms. 2,286,040; June 9.
Assembling machine for screws and washers. F. B. Davis. 2,286,066; June 9.
Atmosphere within reaction equipment, Controlling. J. R. Bates. 2,285,401; June 9.
Atomizer. B. W. Tullis. 2,285,689; June 9.
Automatic control system. A. E. Melhose. 2,285,451; June 9.
Automobile lights, Telltale for. R. B. Trogan. 2,285,544; June 9.
Bacon skinning machine. A. C. Van Hooydonk. 2,285,951; June 9.
Badge carrier. B. Logsdon. 2,285,670; June 9.
Bait retainer. R. H. Benton. 2,285,888; June 9.
Balanced invalid wheel chair. H. A. Everest and H. C. Jennings. 2,285,699; June 9.
Ball joint coupling, Steam pipe. W. A. Stapp. 2,286,122; June 9.
Bathing cap. T. J. Howland. 2,285,659–60; June 9.
Battery cable terminal. R. P. Wagner and F. H. Shackelford. 2,285,545; June 9.
Battery charging apparatus. R. E. Sears. 2,285,620; June 9.
Beam mechanism, Walking. V. A. Nicolescu. 2,286,153; June 9.
Bearing: *See*—
Roller bearing.
Bed. R. W. Urie. 2,285,474; June 9.
Bed easel construction. E. Fox. 2,285,576; June 9.
Bicycle. J. Norred. 2,286,154; June 9.
Bilifold. J. C. Davio. 2,285,906; June 9.
Binder, Loose-leaf. E. F. Buenger and C. V. St. Louis. 2,286,060; June 9.
Binder, Looseleaf. A. G. Lotter. 2,285,525; June 9.
Blackout device. H. Feldman. 2,285,919; June 9.
Blanket, Printer's. G. A. Vasel. 2,285,763; June 9.
Block: *See*—
Building block.
Blower, High velocity. F. E. Best. 2,285,799; June 9.
Blowpipe. H. W. Cowin. 2,285,496; June 9.
Boat launching device. J. L. Larson. 2,285,590; June 9.
Bobbin or the like. G. B. Markle, Jr. 2,285,732; June 9.
Bomb, Aerial. L. A. Dunajeff. 2,285,574; June 9.
Boot. F. E. Marsh and C. M. Schetski. 2,285,993; June 9.
Bottle cap. C. R. Doe. 2,286,070; June 9.
Bottle carrier. H. E. Brunhoff. 2,285,566; June 9.
Bottle holder. E. L. Arneson. 2,285,399; June 9.
Bottle, Hot water. F. Maccoy. 2,285,776; June 9.
Box: *See*—
Display box. Spinning box.
Box. L. L. Vera. 2,285,786; June 9.
Box cover. W. A. Clark. 2,285,391; June 9.
Box machine, Infold and outfold. M. H. Sidebotham. 2,285,537; June 9.
Bracket for traffic signals, Adjustable supporting. K. W. Mackall. 2,285,734; June 9.
Brake control, Automatic. A. R. Patrick. 2,285,781; June 9.
Brake mechanism, Hydraulic. W. L. Foster. 2,285,703; June 9.
Brake operating mechanism. R. L. Eslinger. 2,285,810; June 9.
Broom, Renewable. J. Friedel. 2,285,705; June 9.
Brush carriage for selector switches. C. N. Hickman. 2,285,657; June 9.
Brush, Fountain. J. Battle. 2,286,051; June 9.
Brush holding device. L. F. Hemphill. 2,285,970; June 9.
Buckle, Adjustable. F. Hirsh. 2,285,714; June 9.
Building block. C. R. Wilson. 2,285,693; June 9.
Building material. P. M. Snyder. 2,286,120; June 9.

Building unit. A. W. Remmel and R. H. Brent. 2,286,158; June 9.
Building unit and construction embodying the same, Fabricated. C. F. Davis. 2,286,167; June 9.
Burner control system. A. E. Peterson. 2,286,156; June 9.
Burner for gaseous fuels. R. Rigby. 2,285,944; June 9.
Bushing cap. H. J. Lingal. 2,285,594; June 9.
Butane system. R. Baker and J. C. Fleming. 2,286,050; June 9.
Cabinet. J. D. Cannon. 2,285,899; June 9.
Cable: *See*—
Electric cable.
Cable tension indicator. J. Sturgess. 2,285,471; June 9.
Cadmium removal. C. H. Smith. 2,286,017; June 9.
Calculating machine. C. M. Friden. 2,285,427; June 9.
Calculating machine. E. E. Horner. 2,285,774; June 9.
Calendar clock. A. P. Neyhart. 2,286,000; June 9.
Camera and finder. R. L. Nowland. 2,285,456; June 9.
Can opener. G. L. Reenstierna. 2,285,753; June 9.
Can opener, Vacuum. P. Reynolds. 2,286,039; June 9.
Cap: *See*—
Bathing cap. Bushing cap.
Bottle cap. Twister cap.
Capsules containing radioactive substances, Device for handling. H. F. Kaiser. 2,285,440; June 9.
Car: *See*—
Double deck rail car.
Carbides, Producing the abrasive metal. R. R. Ridgway. 2,285,837; June 9.
Carcasses, Method of and apparatus for spreading. H. L. Murphy. 2,285,999; June 9.
Carriage, Baby. A. G. Feldman. 2,285,700; June 9.
Carriage control for accounting machines. W. A. Anderson. 2,285,041; June 9.
Carrier: *See*—
Badge carrier. Bottle carrier.
Caster, Truck. W. F. Herold. 2,285,656; June 9.
Catalysis. P. L. Veltman. 2,286,129; June 9.
Catalysts, Manufacture of. J. D. Danforth and C. L. Thomas. 2,285,396; June 9.
Catheter, Urethral. N. C. Jeckel. 2,285,980; June 9.
Cellulose acetate molding composition. R. L. Stern. 2,286,041; June 9.
Cellulose esters, Mixed. G. W. Seymour and B. B. White. 2,285,536; June 9.
Cellulose, Manufacture of methyl. A. A. Houghton and C. M. Taylor. 2,285,514; June 9.
Cement applying machine. F. Ashworth. 2,285,484; June 9.
Cementing apparatus, Well. C. W. Thornhill. 2,286,126; June 9.
Center for tapping tools. J. N. Harrell. 2,286,088; June 9.
Chain: *See*—
Tenter chain.
Chair: *See*—
Balanced invalid wheel chair.
Chair and tray locking device therefor, High. R. Stinson. 2,285,845; June 9.
Chemical processes. M. Sveda. 2,286,125; June 9.
Chemical substance. B. R. Harris. 2,285,773; June 9.
Chemicals, Nitrogen generating. W. V. Smith. 2,285,843; June 9.
Circuit: *See*—
Guard circuit. Telephone set circuit.
Signal control circuit.
Circuit breaker. W. H. Frank and J. A. Messing. 2,285,770; June 9.
Circuit closer, Push button. G. B. Benander. 2,285,887; June 9.
Circuit interrupter. R. T. Kintzing, O. D. von Mehren, and C. E. Gary. 2,285,986; June 9.
Circuit interrupter. G. F. McMahon. 2,285,602; June 9.
Circuits, Control. H. L. Barney. 2,285,794; June 9.
Clamp: *See*—
Dental matrix clamp. Hose clamp.
Cleaner: *See*—
Windshield cleaner.
Clothes hanger support. M. W. Brewster. 2,285,411; June 9.
Clutch: *See*—
Impact clutch.
Clutch. J. J. Flickinger. 2,285,652; June 9.
Coating composition and process. E. T. Clocker. 2,285,646; June 9.
Coating mechanism for wheels. N. P. Di Cesare. 2,285,695; June 9.
Coin controlled attachment. J. W. Srodulski. 2,285,748; June 9.
Coloring matter, Phthalimide. N. H. Haddock. 2,285,511; June 9.
Combustion control. G. A. Brooke, Jr., and C. C. Chambers. 2,285,564; June 9.
Combustion device for and method of measuring flame characteristics of gases. M. G. Markle. 2,285,866; June 9.
Composition containing metal deactivators and preparing the same. E. R. White and E. L. Walters. 2,285,878; June 9.
Compounds, Copolymerizing maleic anhydride and polymerizable vinyl. F. E. Condo, C. J. Krister, and W. E. Lundquist. 2,286,062; June 9.
Compression chamber leakage tester. M. Wefers. 2,285,546; June 9.
Compressor, Air. A. R. McEntyre. 2,285,823; June 9.
Compressor, Centrifugal. R. R. Huitson. 2,285,976; June 9.
Condensation products of a urea, an aliphatic aldehyde and a chlorinated acetamide. G. F. D'Alelio. 2,285,418; June 9.
Condenser: *See*—
Electrolytic condenser. Variable condenser.
Condenser. F. Gutzmann. 2,285,432; June 9.
Cone jacket applying machine. J. Balton. 2,286,165; June 9.
Conical articles, Device for measuring. T. A. Meyer. 2,285,741; June 9.
Connector: *See*—
Electrical connector.
Contact burning on controls, Elimination of. E. C. Tanner. 2,285,624; June 9.
Container: *See*—
Dispensing container. Shipping container.
Lobster and fish container.
Container. J. S. Magley. 2,285,731; June 9.
Container and first aid splint, Combination. E. D. McBride. 2,285,994; June 9.
Container carrier and display means. J. H. Burnet. 2,285,801; June 9.
Container for pipe cutters. E. Richter. 2,285,839; June 9.
Container steaming apparatus, Filled. H. L. Minaker. 2,285,867; June 9.
Containers, Making multiple. C. B. Garwood and W. R. Schler. 2,285,707; June 9.
Continuous filter. F. J. Evans. 2,285,649; June 9.
Control apparatus. J. L. Harris. 2,285,513; June 9.
Control apparatus. R. C. Jones. 2,285,665; June 9.
Control apparatus, Approach. L. R. Allison. 2,285,881; June 9.
Control connection. P. McShane. 2,285,673; June 9.
Control device, Modulating. R. V. Derrah. 2,285,913; June 9.
Control head. A. Oberhoffken. 2,285,941; June 9.
Control, Manganese cathode voltage. C. L. Mantell. 2,286,148; June 9.
Control means for catalytic converters. H. A. Hulsberg. 2,285,716; June 9.
Control system. H. H. Gorrie. 2,285,578; June 9.
Control system. A. W. Kimball. 2,285,587; June 9.
Control system. I. M. Stein and J. C. Peters. 2,285,540; June 9.
Control system and apparatus. A. A. Collins. 2,285,414; June 9.
Control system, Circuit. R. B. Hunter. 2,285,978; June 9.
Control system for synchronous motors. S. C. Ewing. 2,285,917; June 9.
Control system, Sender. R. C. Davis and J. W. Dehn. 2,285,908; June 9.
Conversion system. J. von Issendorff and K. Maertens. 2,285,634; June 9.
Conveyor supporting rolls, Belt. F. E. Deems, R. Y. MacIntyre, M. S. Greeley, and G. R. Fisk. 2,285,647; June 9.
Cooler: *See*—
Hydraulic cooler. Milk cooler.
Copy rack. H. J. Bahr. 2,286,048; June 9.
Copyholder. C. A. Ponsford. 2,285,871; June 9.
Core for electrical devices and making the same, Magnetic. R. M. Pfalzgraff. 2,286,008; June 9.
Corn from the cob, Removing. A. B. Carroll. 2,285,567; June 9.
Corset. E. M. Scott. 2,285,619; June 9.
Cosmetic matching device. M. M. Gordon. 2,285,709; June 9.
Counter. H. L. Spaunburg. 2,285,844; June 9.
Countercurrent between fluids, Securing. W. J. Podbielniak. 2,286,157; June 9.
Counting machine. G. Cobden. 2,285,568; June 9.
Coupling: *See*—
Ball joint coupling. Pipe coupling.
Coupling device. J. W. Cammack. 2,285,803; June 9.
Coupling means for tractor-semitrailer combinations, Automatic. M. A. Carmody. 2,286,166; June 9.
Cover: *See*—
Box cover. Instrument cover.
Fabric cover. Slip cover.
Crankshafts, Machining. W. F. Groene and H. J. Siekmann. 2,285,772; June 9.
Crossbar switch, Step-by-step operated. G. V. King. 2,285,985; June 9.
Culture medium for the growth of micro-organisms. J. H. Glynn. 2,285,708; June 9.
Cushion seat template, Adjustable. A. D. Human. 2,285,582; June 9.
Cutting and grinding tools. W. Dawihl. 2,285,909; June 9.
Cutting machine, Paper. W. A. De Hart. 2,285,911; June 9.
Cylinder head for spinning machines. R. W. Miller. 2,286,152; June 9.
Damper or valve. J. L. Roof. 2,285,533; June 9.
Damper regulator. A. E. Maage, Jr. 2,285,829; June 2.
Decoration. M. F. Mauro. 2,285,599; June 9.
Dental matrix clamp. H. B. Stanford. 2,286,021; June 9.

Density responsive apparatus, Liquid. C. E. Kerr. 2,285,586; June 9.
Dental X-ray photography. K. Riesenfeld. 2,285,943; June 9.
Detector, Balanced frequency. H. A. Wheeler. 2,285,957; June 9.
Detergent composition. M. Metziger and A. Long. 2,285,676; June 9.
Device to prevent picking in poultry. W. C. Nichols and P. Masur. 2,286,001; June 9.
Diathermy apparatus. W. Running. 2,286,110; June 9.
Die locking machanism. R. G. Rahe. 2,285,942; June 9.
Dihydroxy-diphenyls, Substituted. E. C. Britton and J. E. Livak. 2,285,563; June 9.
Dioxide, Production of titanium. J. Barksdale and W. W. Plechner. 2,285,485; June 9.
Disconnecting switch. J. M. Wallace and H. L. Rawlins. 2,286,131; June 9.
Disk control and draft unit. A. Woods. 2,285,550; June 9.
Dispensing container. W. F. Punte. 2,285,835; June 9.
Dispensing device. C. C. Dajoz and R. E. Dubois. 2,286,065; June 9.
Display box, Knockdown. S. Lester. 2,285,991; June 9.
Distributor, Fertilizer. T. H. Lee. 2,286,143; June 9.
Documents, Preventing fraudulent alternation of. W. S. Close. 2,285,806; June 9.
Door. F. O. Goodman. 2,286,082; June 9.
Double deck rail car. J. Ledwinka and R. H. Horton. 2,285,933; June 9.
Doughnut machine. E. J. Roth. 2,286,013; June 9.
Draft device. W. W. Sloane. 2,286,119; June 9.
Draft gear. R. M. Nelson. 2,285,938; June 9.
Drawing mandrel or plug. J. A. Staples and T. Lewin. 2,285,539; June 9.
Drier: *See*—
Heated drier.
Drilling apparatus, Stile. C. G. Joa. 2,286,096; June 9.
Drive mechanism for stem or explosive engines. D. S. Dillenbach. 2,285,572; June 9.
Driving mechanism. R. E. Rousseau and L. J. Strauss. 2,286,108; June 9.
Dyer, Skein. A. Robertson. 2,286,107; June 9.
Dyestuffs and their application, Manufacture of soluble nitro. A. H. Knight and F. H. Pearman. 2,285,516; June 9.
Dynamometer. W. C. Dillon. 2,285,500; June 9.
Dynamometer, Portable. H. F. Hanson. 2,285,580; June 9.
Dynamoelectric machine. C. J. Fechheimer. 2,285,960; June 9.
Edible products and material for use therein, Making. J. R. White and J. A. Dunn. 2,285,478; June 9.
Electric cable. C. J. Beaver and E. L. Davey. 2,286,052; June 9.
Electric lamp. D. C. Kinney. 2,285,724; June 9.
Electric switch. H. Eisner. 2,285,916; June 9.
Electric switch. P. M. Farmer. 2,286,077; June 9.
Electric switch. J. B. Whitted. 2,285,479; June 9.
Electric switch, Enclosed. B. E. Getchell. 2,286,033; June 9.
Electrical apparatus. J. W. Allen. 2,285,397; June 9.
Electrical cable reel. R. K. Jeffrey and L. E. Mitchell. 2,285,860; June 9.
Electrical connection for potheads and forming same. A. E. Papp. 2,285,529; June 9.
Electrical connector. H. Jensen. 2,285,928; June 9.
Electrical control apparatus. B. Mishelevich. 2,285,937; June 9.
Electrical fixture. E. G. K. Anderson. 2,285,883; June 9.
Electrical resistance unit. H. T. Rights and U. L. Smith. 2,286,161; June 9.
Electrodepositing an adherent coating of copper on chromium-containing alloys of iron and/or nickel. A. Wesley. 2,285,548; June 9.
Electrodepositing an adherent layer of copper from copper refinery electrolyte on alloys of iron and/or nickel containing chromium. A. Wesley and H. R. Copson. 2,285,549; June 9.
Electrodeposition of copper powder. S. B. Tuwiner and W. H. Osborn. 2,285,762; June 9.
Electrolytic condenser. A. M. Georgiev and P. F. Koehly. 2,286,081; June 9.
Electrolytic process for the production of quinone and hydroquinone. S. Horrobin and R. G. A. New. 2,285,858; June 9.
Electromagnetic device. J. L. Bonanno. 2,285,560; June 9.
Electromagnetic transducer. W. F. Steers. 2,286,123; June 9.
Electromagnetically operated reciprocating mechanism. J. L. Bonanno. 2,285,645; June 9.
Electron control device. P. T. Farnsworth. 2,286,076; June 9.
Electron multiplier. F. J. G. van den Bosch. 2,285,848; June 9.
Electroplating magnetizable articles in bulk, Method and apparatus for. H. G. Arlt. 2,285,553; June 9.
Emulsion. A. K. Epstein and B. R. Harris. 2,285,422; June 9.
Emulsions. E. Gröner. 2,285,579; June 9.
Engine: *See*—
Internal combustion engine.
Envelope. G. O. Cloutier. 2,285,807; June 9.
Excavator tooth. F. M. Newell. 2,285,455; June 9.
Expansion joint. F. R. Smith. 2,286,019; June 9.
Extraction apparatus. M. J. Kahan. 2,285,930; June 9.
Extraction, Process for. A. V. Caselli and A. C. Nixon. 2,285,898; June 9.
Extractor loading and unloading equipment. G. M. Whelan. 2,285,547; June 9.
Fabric: *See*—
Wire fabric.
Fabric cover, Expansible. C. R. Johnson. 2,286,136; June 9.
Fabrics, Production of. V. R. Hardy. 2,285,967; June 9.
Fan impeller. M. H. Frisbie. 2,285,428; June 5.
Fastener. A. Hryzack. 2,285,661; June 9.
Fastener for use in securing the edges of two materials together, particularly adapted for shoes, Separable. E. G. Marinetti. 2,286,149; June 9.
Fastening device. G. A. Tinnerman. 2,286,042; June 9.
Fastening inserting machine. B. B. Blanchard. 2,285,489; June 9.
Feed control mechanism. J. L. Hill. 2,285,971; June 9.
Feed for manifolding machines, Strip. L. F. Hageman. 2,286,084; June 9.
Feeder: *See*—
Solder feeder.
Feet, Means for massaging the. E. M. Wheelock. 2,285,958; June 9.
Felted article and its production. A. E. Broderick. 2,285,490; June 9.
Fertilization, Soil. F. H. Leavitt. 2,285,932; June 9.
Figure. M. Tenenbaum. 2,285,472; June 9.
Filaments, Production of. J. Alfthan. 2,285,552; June 9.
Filling machine. A. R. Thompson. 2,285,627; June 9.
Film trimming and gluing apparatus. A. Suter. 2,285,759; June 9.
Filter: *See*—
Continuous filter.
Filter septum supporting means. A. O. Brooks. 2,285,894; June 9.
Finger protector. M. E. Johns. 2,285,981; June 9.
Finning. A. W. Gay. 2,285,811; June 9.
Firearm. D. M. Williams. 2,286,133; June 9.
Firearm, Automatic. H. O. Eiane. 2,285,503; June 9.
Fireplace display. O. Schlett. 2,285,535; June 9.
Fishing reel. E. D. Clickner. 2,285,493; June 9.
Fishing tool. P. M. Rea. 2,285,838; June 9.
Flatiron holder. A. P. Smith. 2,285,747; June 9.
Flatiron, Steam electric. N. Smith. 2,285,757; June 9.
Flotation method. H. W. Coke. 2,285,394; June 9.
Flow control mechanism. W. W. Stuart. 2,285,749; June 9.
Flow indicator. J. Lien. 2,286,144; June 9.
Fluid controlling valve. R. F. Heinemann. 2,285,655; June 9.
Fluid motor. G. A. Wahlmark. 2,285,476; June 9.
Fluid pressure system. C. V. Berglund. 2,285,557; June 9.
Foillike layers, Manufacturing. E. Fenner. 2,285,424; June 9.
Folding table. E. R. Lutz, E. M. Allen, and T. W. Darrah. 2,285,597; June 9.
Football down indicator. R. E. Rice. 2,285,613; June 9.
Frame: *See*—
Spectacle frame.
Spinning and twisting frame.
Frankfurter layout. H. H. McKee, H. W. Metzen, and E. A. Schiewe. 2,285,736; June 9.
Fruit, Coloring. J. N. Sharma. 2,286,164; June 9.
Fruit sizing and grading machine. E. M. Wayland. 2,285,955; June 9.
Fuel injection pump. C. A. Lindeman. 2,285,730; June 9.
Furnace control. R. W. Johnson and L. V. McCarty. 2,286,137; June 9.
Furnace for melting metals, Coreless induction. M. and M. Tama. 2,286,024; June 9.
Game. A. W. Miller, Jr. 2,286,151; June 9.
Game canal device. N. McLeod. 2,285,737; June 9.
Game, Indoor baseball. W. M. Pharr. 2,285,782; June 9.
Garment, Work. L. A. Wickman. 2,285,692; June 9.
Gas dispensing system, High pressure. J. J. Shanley. 2,285,686; June 9.
Gas producer plow arm latch. A. K. Bradley. 2,286,054; June 9.
Gaseous discharge device. G. M. Beardow. 2,285,796; June 9.
Gasoline, Treatment of. V. I. Komarewsky. 2,285,727; June 9.
Gauge: *See*—
Pressure gauge. Wheel gauge.
Gauge for saw tables, Acute angle. W. E. Campbell. 2,285,897; June 9.
Gear: *See*—
Draft gear.
Gear blank and producing the same, Bevel. F. V. Elbertz. 2,285,575; June 9.
Gearing with automatic overdrive, Change speed. E. A. Thompson. 2,285,760; June 9.
Gel intermediate. W. C. Pierson. 2,286,038; June 9.
Generating means, Current. W. D. Keele. 2,285,775; June 9.
Generator: *See*—
Magnet generator. Vapor generator.
Generator apparatus, Electric. C. F. Wallace. 2,285,849; June 9.

Glass handling machine. S. F. Grein and P. G. Magrini. 2,285,921; June 9.
Glass, Tempering. J. T. Littleton, H. R. Lillie, and W. W. Shaver. 2,285,595–6; June 9.
Glove. M. R. Simon. 2,285,538; June 9.
Glove turning and pressing machine, Combined. L. Brownstein. 2,286,057; June 9.
Glove turning machine. L. Brownstein. 2,286,058; June 9.
Grater, Vegetable. M. Karp. 2,285,721; June 9.
Grille, Directional. A. E. Kletsmann. 2,285,984; June 9.
Guard circuit. F. R. Lamberty. 2,286,142; June 9.
Guide. V. G. Klein and L. A. Reuter. 2,286,140; June 9.
Hairpin. E. F. Barth. 2,285,555; June 9.
Hairpins or the like upon cards, Threading. W. H. Hermsdorf. 2,285,433; June 9.
Hammer, Portable power. F. P. Forss. 2,285,702; June 9.
Hand attachment means for vibrators and the like. S. P. Harris. 2,286,089; June 9.
Hand, Mechanical. D. B. Becker. 2,285,885; June 9.
Hand lamp. W. R. Kopp and E. H. Blue. 2,285,589; June 9.
Handle: *See*—
Plate and handle.
Hanger: *See*—
Hanger support and hanger. Pipe hanger.
Hanger support and hanger. J. Ritter, Jr. 2,285,745; June 9.
Hat. S. Hamershlag. 2,286,086; June 9.
Hay lift. W. E. and M. R. Hedlund. 2,286,092; June 9.
Headlight. F. D. Blauvelt. 2,285,408; June 9.
Headlight adapter. A. E. Larsen. 2,285,591; June 9.
Heat in motor oil, Device for retaining. S. S. Joy. 2,285,720; June 9.
Heated drier, Internally. W. C. Goss. 2,285,508; June 9.
Heater: *See*—
Air heater. Aircraft heater.
Heating device, Electric. G. E. Price. 2,285,611; June 9.
Heating unit. J. W. Harrison. 2,285,090; June 9.
High frequency system. H. Johannson. 2,285,437; June 9.
Hinge assembly for the buckets of dredger chains. T. Parker. 2,285,870; June 9.
Hinge construction. V. A. Gronberg and L. M. Hultberg. 2,286,510; June 9.
Holder: *See*—
Bottle holder. Implement holder.
Flatiron holder. Match holder.
Holder for impact tools. M. O'Farrell. 2,285,608; June 9.
Hood latching means. A. J. Rhodes. 2,285,682; June 9.
Hose clamp, Spring ring. W. L. Weeks. 2,285,850; June 9.
Hull construction. A. A. Dubay. 2,285,959; June 9.
Humidity variable resistance. F. W. Dunmore. 2,285,421; June 9.
Hydraulic cooler. E. B. Korth. 2,285,668; June 9.
Hydraulic piston motor. R. K. Jeffrey and L. E. Mitchell. 2,285,863; June 9.
Hydraulic reducing valve. J. M. Towler and F. H. Towler. 2,286,027; June 9.
Hydraulic valve. J. M. and F. H. Towler. 2,286,026; June 9.
Hydraulic variable speed transmission. G. Schwarzbach. 2,285,466; June 9.
Hydrocarbons, Oxidation of alicyclic. S. H. McAllister. 2,285,601; June 9.
Hydrocarbons, Treatment of. J. De Seguy. 2,285,785; June 9.
Hydrohalogenation process. C. A. Thomas and H. E. Morris. 2,285,473; June 9.
Ignition assembly. G. D. Frank. 2,285,704; June 9.
Illuminating device for hand bags. R. A. Moss. 2,285,454; June 9.
Image suppression system. F. N. Jacob. 2,285,979; June 9.
Impact clutch. L. A. Amtsberg. 2,285,638–9; June 9.
Implement, Cutting. L. A. Young. 2,286,047; June 9.
Implement holder. A. J. Rochow. 2,286,012; June 9.
Impulse mechanism. J. A. Kater. 2,286,135; June 9.
Indicator: *See*—
Airplane angle indicator. Football down indicator.
Cable tension indicator. Speed indicator.
Flow indicator. Unbalanced indicator.
Inductance device, Adjustable. F. Bergtold. 2,285,798; June 9.
Ingots, Production of sound metal. L. B. Lindemuth. 2,285,523; June 9.
Inhibitor, Wax decomposition. A. A. Schilling and G. H. Latham. 2,286,112; June 9.
Ink, Lithographic. A. E. Gessler, E. F. Carman, and L. F. Engelhart. 2,285,430; June 9.
Insecticides, Applying. W. N. Sullivan and L. D. Goodhue. 2,285,960; June 9.
Insole making machine. J. A. Scott. 2,286,114; June 9.
Instrument cover. R. C. Hitchcock. 2,285,658; June 9.
Insulating material, Electric heater. O. G. Vogel and L. Navias. 2,285,962; June 9.
Insulator, High tension. V. Grosse. 2,285,964; June 9.
Integrating means. H. L. Merrick. 2,285,675; June 9.
Internal combustion engine. M. Mallory. 2,285,671; June 9.
Inverter, Mechanical. A. Leifer and F. Schilgen. 2,285,934; June 9.
Ion source. J. Slepian. 2,285,622; June 9.
Iron, Method of and apparatus for producing sponge. J. E. Batie. 2,285,487; June 9.
Ironer, Garment. J. H. Leef. 2,285,990; June 9.
Jack: *See*—
Roof jack.
Joint: *See*—
Expansion joint. Universal joint.
Knife. H. Vossler. 2,285,635; June 9.
Knitting machine, Circular. C. H. Wainwright. 2,285,877; June 9.
Knob structure and making same. J. A. and J. P. Gits. 2,285,963; June 9.
Lamp: *See*—
Electric lamp. Hand lamp.
Lamp and starting device, Electric discharge. H. J. McCarthy. 2,285,450; June 9.
Lamp assembly, Electric. L. L. Stoffel. 2,285,875; June 9.
Latch: *See*—
Gas producer plow arm latch.
Lantern, Projecting. C. F. Dutton. 2,285,915; June 9.
Lapping machine truing apparatus. H. S. Indge. 2,285,717; June 9.
Latch and clamp construction, Combined. A. P. Leinen. 2,285,728; June 9.
Lens mount, Plural. J. P. Stando, K. W. Kennedy, and R. J. Anschicks. 2,285,470; June 9.
Lens mounting. A. Drucker. 2,285,768; June 9.
Lifeboat davit operating by gravity. D. Barricelli. 2,285,400; June 9.
Lifting device. J. and N. J. Dragan. 2,286,071; June 9.
Light dividing apparatus. R. T. Hurley. 2,285,515; June 9.
Light stand, Portable. W. F. Muller. 2,285,868; June 9.
Lighter, Cigar. J. H. Cohen. 2,285,904; June 9.
Lighter, Pyrophoric. P. S. Richards. 2,286,160; June 9.
Lintel for vertical doors, Movable. C. Norton and B. W. Tucker, Jr. 2,286,003; June 9.
Liquid blending apparatus and process, Pressure. R. C. Hopkins. 2,285,973; June 9.
Loading and unloading conveyor apparatus. W. Bisset. 2,285,358; June 9.
Lobster and fish container, Portable. C. R. Look. 2,286,146; June 9.
Loom. J. L. Baker. 2,285,793; June 9.
Loom apparatus. E. F. Wood and M. Gautreau. 2,285,787; June 9.
Loom controlling mechanism. W. F. Astley. 2,285,385; June 9.
Lubricant. G. E. Merkle. 2,285,453; June 9.
Lubricant. G. E. Merkle. 2,285,739; June 9.
Lubricating center plate, Self. J. H. Scott. 2,285,784; June 9.
Lubricating compound. G. E. Merkle. 2,285,452; June 9.
Lubrication. J. Bijur. 2,285,407; June 9.
Lubrication. F. Downing, A. F. Benning, and F. W. Johnson. 2,285,853–5; June 9.
Machine for capsuling bottles, Automatic. R. L. Gangloff. 2,286,079; June 9.
Machine for perforating cloth and other materials. F. J. Clark. 2,285,492; June 9.
Machine for turning and pressing gloves. L. Brownstein. 2,286,059; June 9.
Machine for waxing and plaiting paper. F. Schwarts. 2,285,617; June 9.
Machine stop. F. L. Egger and E. C. Snow. 2,286,074; June 9.
Machine tool. N. P. Darash. 2,285,571; June 9.
Magnesium base alloy. J. C. McDonald. 2,285,822; June 9.
Magnet generator, Permanent. W. F. Ridgway. 2,285,463; June 9.
Magnet, Permanent. C. G. Bieber. 2,285,406; June 9.
Manifold for oil interceptors, Intake. E. W. N. Boosey. 2,285,893; June 9.
Match holder. E. R. Norbut. 2,285,607; June 9.
Match packet and cardcase. F. W. Rettenmeyer. 2,285,836; June 9.
Material handling device. L. J. Valusek. 2,285,475; June 9.
Measuring and indicating device. J. E. Kerrigan. 2,285,723; June 9.
Measuring, Method of and apparatus for. F. Wunsch. 2,285,482; June 9.
Mechanical movement. G. F. Ryan. 2,285,534; June 9.
Mechanism for circuit breakers, Pneumatic operating. H. E. Strang. 2,286,023; June 9.
Mechanism for counters, Resetting. T. J. Moriarty. 2,285,825; June 9.
Metal articles, Lining. H. R. Austin. 2,285,554; June 9.
Metal bodies, Apparatus for conditioning. J. H. Buckmam and A. J. Miller. 2,285,519; June 9.
Metal bodies, Method and apparatus for conditioning. H. W. Jones. 2,285,518; June 9.
Meter: *See*—
Parking meter.
Meter. E. L. Hurt. 2,285,859; June 9.
Meter and cooling means therefor. V. A. Hoover. 2,285,436; June 9.

Meter-reading apparatus, Automatic. W. Leathers. 2,285,819; June 9.
Metering device, Liquid. T. A. McCoy. 2,285,527; June 9.
Metering system, Remote. G. W. Pickels. 2,286,180; June 9.
Methyl esters of hydrazoic acid as insecticides, Aromatic substituted. I. Hechenbleikner. 2,286,169; June 9.
Micrometer divider. J. F. Farrar. 2,285,918; June 9.
Milk cooler, Portable. H. C. Keyser. 2,285,520; June 9.
Milling machine. H. E. Musselman. 2,285,743; June 9.
Mineral oil distillates, Desulphurising. C. L. Dunn. 2,285,696; June 9.
Mining machine. R. K. Jeffrey and L. E. Mitchell. 2,285,861–2; June 9.
Mining machine. R. K. Jeffrey and L. E. Mitchell. 2,285,864; June 9.
Mixing machine, Aggregate. F. L. Carswell. 2,285,765; June 9.
Mold: *See*—
Tire retreading mold.
Molded article. P. A. Pontius. 2,285,679; June 9.
Molding compounds, Manufacture of. A. L. Dixon and R. P. Lutz. 2,285,501; June 9.
Molten material, Foaming or granulating. M. Gallai-Hatchard. 2,286,078; June 9.
Mop. A. C. Koots. 2,285,818; June 9.
Mop, Shaker. W. Hertzberg. 2,285,383; June 9.
Motor: *See*—
Fluid motor. Windshield cleaner motor.
Hydraulic piston motor.
Motor assembly. E. D. Boisselier. 2,286,176; June 9.
Motor control, Feed drive. G. E. King. 2,285,666; June 9.
Motor control system. A. A. Collins. 2,285,415; June 9.
Motor vehicle steering stabilizer. A. Kost. 2,285,445; June 9.
Mounting: *See*—
Lens mounting.
Windshield wiper mounting.
Mounting for stamps in stamp holders, Resilient. E. R. Weber. 2,285,956; June 9.
Muffler or silencer. C. L. Merett. 2,285,674; June 9.
Necktie construction. V. Naftali. 2,285,528; June 9.
Needle bevel maintainer and hone. J. G. Kurtz. 2,286,141; June 9.
Nitrate, Making zirconium. C. J. Kinzie and D. S. Hake. 2,285,443; June 9.
Oil, Coalescing foamy. E. G. Ragatz. 2,285,744; June 9.
Oiling system for compressors. W. R. Freeman. 2,285,426; June 9.
Oils, Nonfoaming emulsifiable. O. Nörring. 2,285,940; June 9.
Oils, Treatment of hydrocarbon. C. W. Nofsinger and J. W. Jewell. 2,285,606; June 9.
Optical instrument. E. Krimsky. 2,285,987; June 9.
Optical measuring device. B. W. David. 2,285,498; June 9.
Organic matter by fermentation, Treatment of. D. McI. Proctor. 2,285,834; June 9.
Oxidation of cyclohexanol. O. Drossbach. 2,285,914; June 9.
Package, Curtain rod. S. E. Maves. 2,285,600; June 9.
Package wrapping machine. J. Silberman. 2,285,842; June 9.
Packaging machine. R. W. Vergobbi. 2,286,130; June 9.
Pan greasing device. P. M. Cook. 2,285,495; June 9.
Panel, Plywood. D. Deskey. 2,286,068; June 9.
Paper tape machine, Gummed. H. F. Gilliam. 2,285,507; June 9.
Parking meter. D. C. Rockola and A. Dahlstrom. 2,285,532; June 9.
Pellicle with a waterproof coating, Water-swelling nonfibrous. R. T. K. Cornwell and C. M. Rosser. 2,285,852; June 9.
Pencil, Crayon. O. H. Tweeten. 2,285,630; June 9.
Perforator and closure, Can. F. F. Storck. 2,286,124; June 9.
Pest control. E. W. Bousquet, E. K. Ellingboe, and H. G. Guy. 2,285,409; June 9.
Pest control. E. W. Bousquet and H. G. Guy. 2,285,410; June 9.
Phenol, Substituted. F. L. Taylor and J. E. Livak. 2,285,626; June 9.
Phenols, Dehydration of. W. B. Brown. 2,286,056; June 9.
Phosphors, Preparation of. R. F. Ruthruff. 2,285,464; June 9.
Photographic exposure apparatus. H. F. Tönnies. 2,285,761; June 9.
Photometer, Integrating. A. H. Lamb. 2,286,036; June 9.
Piano action. A. F. Knoblaugh. 2,285,817; June 9.
Pickup. G. Innes. 2,286,095; June 9.
Pickup for sound film projectors, Sound. G. F. Hubschmid. 2,285,975; June 9.
Pigments, Preparation of titanium dioxide. J. Barksdale and W. W. Plechner. 2,285,486; June 9.
Pipe coupling, Sanitary. C. D. Quinn. 2,286,105; June 9.
Pipe hanger. J. E. Sleeth. 2,286,118; June 9.
Pipe line stopper. E. E. Cline. 2,285,392–3; June 9.
Pipe line stopper. F. H. Mueller, W. J. Bowan, and B. A. Mason. 2,285,779; June 9.
Piston puller. D. A. Kelly. 2,285,983; June 9.
Piston ring. H. P. Phillips. 2,285,530; June 9.
Piston ring and sealing means therefor. C. D. Finley. 2,285,961; June 9.
Piston ring tool. J. A. Oberosler. 2,285,828; June 9.
Plant and device for fluid control. J. Mercier. 2,285,604; June 9.
Plant support. F. F. Lawrenz. 2,285,522; June 9.
Plate and handle, Coffee bottle supporting. M. H. Emmer. 2,285,698; June 9.
Plate casting, finishing, and cooling machine. O. C. Roesen. 2,285,680; June 9.
Pliers. G. F. Seashore. 2,285,683; June 9.
Plug: *See*—
Drawing mandrel or plug. Terminal plug.
Plug fixture, Anchored drum. L. B. Wackman. 2,286,175; June 9.
Polishing machine, Stone. W. G. Cumming. 2,285,808; June 9.
Polymerization of olefines with phosphoric acid catalyst. W. P. Gage. 2,285,920; June 9.
Positioning means, Automatic. H. Harvey and R. S. Thacker. 2,285,517; June 9.
Power system. O. A. Keep. 2,285,982; June 9.
Power transmission. F. T. Harrington and R. L. Tweedale. 2,285,968; June 9.
Press. H. C. Bostwick. 2,285,389; June 9.
Pressure gauge. F. Mack. 2,285,777; June 9.
Pressure switch. L. Hartridge. 2,285,711; June 9.
Printing apparatus and attachment therefor. W. C. Hanigan. 2,286,087; June 9.
Printing, Selective. V. C. Hollingsworth. 2,286,094; June 9.
Propeller drive. J. Ledwinka. 2,285,592; June 9.
Protector: *See*—
Finger protector.
Pruning implement. G. W. Newman. 2,285,780; June 9.
Puller: *See*—
Piston puller.
Pulley device. H. Auslander. 2,285,791; June 9.
Pulverization. M. Frisch. 2,285,429; June 9.
Pump: *See*—
Fuel injection pump. Water pump.
Pump base, Safety oil. T. L. Mino. 2,285,997; June 9.
Pump structure. C. J. Huber. 2,285,974; June 9.
Pyrometer. J. A. Obermaier. 2,285,457; June 9.
Pyroxylin material or the like, Making tubes of. J. N. Whitehouse. 2,286,045; June 9.
Pyrrolidines, Manufacture of. G. H. Coleman. 2,285,413; June 9.
Rack: *See*—
Copy rack. Storage rack.
Shoe display rack.
Rack. P. O. Unger. 2,286,128; June 9.
Radio antenna. C. J. Kirkes. 2,285,588; June 9.
Railroad crossing. C. H. Blair. 2,285,559; June 9.
Receiver. H. Hewel. 2,285,857; June 9.
Receiver for dry shavers, Hair. C. E. Burns. 2,286,061; June 9.
Recorder, Phonograph. O. Kornei. 2,286,178; June 9.
Rectification system. W. H. Bennett. 2,285,402; June 9.
Rectifier, Dynamic. F. E. Best. 2,285,403; June 9.
Rectifier, Dynamic. F. E. Best. 2,285,405; June 9.
Rectifier temperature control. J. L. Finch. 2,285,504; June 9.
Reel: *See*—
Electrical cable reel. Fishing reel.
Reflector unit and making said unit. J. C. Haggart, Jr. 2,286,085; June 9.
Refrigerating apparatus. L. G. Woodson. 2,285,788; June 9.
Refrigeration. C. T. Ashby. 2,285,884; June 9.
Refrigeration. A. R. Thomas. 2,286,025; June 9.
Refrigeration apparatus. M. Kallscher. 2,285,946; June 9.
Refrigeration apparatus. T. W. Rundell. 2,285,945; June 9.
Refrigeration apparatus. M. G. Sateren. 2,285,947; June 9.
Refrigeration mechanism. R. H. Money. 2,285,754; June 9.
Refrigerator. C. R. D'Olive and R. H. Money. 2,285,701; June 9.
Refrigerator construction. T. W. Rundell. 2,286,109; June 9.
Regeneration of catalytic materials and apparatus therefor. O. F. Campbell and H. L. Pelzer. 2,285,804; June 9.
Register, Cash. B. M. Shipley. 2,286,116; June 9.
Regulator: *See*—
Damper regulator. Tension regulator.
Reinforcements, Applying. M. Lichter. 2,285,447; June 9.
Relay. E. Venable. 2,285,633; June 9.
Relay, Detachable. C. P. West, R. M. Smith, and W. A. Lewis, Jr. 2,286,044; June 9.
Relay, Electrical. B. Mishelevich. 2,285,936; June 9.
Relay, Electromagnetic. H.-F. Schwartz and O. Baier. 2,285,467; June 9.
Remote control system. S. W. Seeley. 2,285,684; June 9.
Resin plastic composition, Vinyl. A. K. Doolittle. 2,285,420; June 9.

Resin, Coumarone-indene. F. W. Corkery. 2,285,417; June 9.
Resin, Coumarone-indene. F. W. Corkery and R. H. Bailey. 2,285,416; June 9.
Resinous materials. A. Bellefontaine, H. Bernard and A. Sieberg. 2,285,797; June 9.
Resistance device, High frequency. J. M. van Beuren. 286,029; June 9.
Retainer for shaving mugs, Soap cake. A. D. McKelvy. 2,285,996; June 9.
Reversing means for single-phase motors. F. D. Snyder. 2,285,687; June 9.
Ring: *See*—
Piston ring.
Ring expander. D. H. Pratt. 2,285,459; June 9.
Road scarifying device. R. Gaddis. 2,285,706; June 9.
Roll handling apparatus. A. E. Hamilton. 2,285,966; June 9.
Roller bearing. F. E. Best. 2,285,800; June 9.
Roller screen. B. Gornetski. 2,286,083; June 9.
Roof jack, Adjustable. J. J. Ingram. 2,285,663; June 9.
Roofing. J. Logan, Jr. 2,286,1455; June 9.
Rosin and turpentine from crude oleo-resin, Producing a purified gum. W. N. Traylor. 2,285,628; June 9.
Rotary machine parts, Dynamically balancing. F. E. Best. 2,285,404; June 9.
Rotary pump or the like. H. G. Bowering. 2,286,031; June 9.
Rotating assembly. F. C. Rushing. 2,285,681; June 9.
Rubber sheeting, Producing cavitied. J. U. Mann. 2,285,526; June 9.
Rule, Slide. L. M. Kells, W. F. Kern and J. R. Bland. 2,285,722; June 9.
Saddle. J. D. Padgitt. 2,285,869; June 9.
Saddle, Cycle. H. E. Kalter. 2,286,138; June 9.
Saw, Jig. T. L. Hedgpeth. 2,285,713; June 9.
Saw treating machine. A. W. Knutson. 2,286,098; June 9.
Scaffold, Material handling. A. J. Chenoweth. 2,285,901; June 9.
Scale counterpoise. H. O. Hem. 2,285,927; June 9.
Scale, Hydraulic weighing. R. S. Bohannan. 2,285,892; June 9.
Scale, Weighing. H. O. Hem. 2,285,926; June 9.
Scanning method and device. R. D. Lemert. 2,285,593; June 9.
Screen: *See*—
Roller screen.
Screen structure, Vibratory. G. A. Overstrom, G. Overstrom, and C. Overstrom. 2,285,678; June 9.
Screw. W. A. Purtell. 2,285,460; June 9.
Screw, Socketed. W. A. Purtell. 2,285,461; June 9.
Screws, Method of and apparatus for making socketed. W. A. Purtell. 2,285,462; June 9.
Sealer, Bag. W. R. Kohl. 2,285,726; June 9.
Sealing and labeling machine, Article. W. S. Reynolds. 2,286,159; June 9.
Sealing composition, Plastic. F. R. Smith. 2,286,018; June 9.
Seat: *See*—
Uniform pressure distributing seat.
Seat construction. H. C. Flint and D. Fryer. 2,286,168; June 9.
Selector, Contact. W. H. Starck. 2,286,022; June 9.
Selector system for amplifiers. C. A. Heiland. 2,286,170; June 9.
Separating arrangement, Liquid-gas. H. M. Otto. 2,286,005; June 9.
Separator. M. P. Walle. 2,286,132; June 9.
Server, Butter. H. A. Weiler. 2,285,637; June 9.
Sewage treatment method and apparatus. A. C. Durdin, III. 2,285,697; June 9.
Sewer trap. P. J. Schweighart. 2,285,756; June 9.
Sewing machine, Shoe. T. A. Kestell. 2,286,139; June 9.
Shackle construction. R. I. Markey. 2,286,100; June 9.
Shaver, Dry. R. Hicks. 2,286,093; June 9.
Sheet metal working tool. W. R. Atwood. 2,285,386; June 9.
Sheet registering mechanism for printing machines. W. K. Eckhard. 2,286,032; June 9.
Shelf or rack for refrigerators, ovens, and the like. L. A. Young. 2,285,764; June 9.
Shingle panel, Fabricated. R. A. Wilde. 2,285,480; June 9.
Shipping container. W. V. Roberts. 2,285,873; June 9.
Shoe construction. F. A. Melchionna. 2,285,738; June 9.
Shoe display rack. A. H. Clark. 2,285,491; June 9.
Shop, bazaar, and the like. T. E. Foulkes. 2,285,962; June 9.
Shovel. W. C. Turner. 2,285,629; June 9.
Shower bath spray head. E. J. Pennypacker. 2,285,831; June 9.
Shrine, Religious. A. Valliere. 2,286,127; June 9.
Sight, Firearm. C. C. Loomis. 2,286,147; June 9.
Sign: *See*—
Street sign.
Sign. M. K. Davis. 2,285,907; June 9.
Signal. J. G. Morgan. 2,285,824; June 9.
Signal control circuit, Railway. H. G. Blosser. 2,285,891; June 9.
Signal horn switch. J. F. Sladky. 2,286,016; June 9.
Signaling apparatus. E. M. Allen. 2,285,880; June 9.
Signaling system. W. H. T. Holden. 2,285,815; June 9.
Signaling system, Railway. F. H. Nicholson. 2,286,002; June 9.
Signaling system, Railway. J. M. Pelikan. 2,286,006; June 9.
Ski tow mechanism. D. A. Wallace. 2,285,636; June 9.
Slicer. S. Fabian. 2,286,177; June 9.
Slip cover. G. S. Krasnov and N. I. Krasnov. 2,286,171; June 9.
Slitting device. W. M. Stocker. 2,285,846; June 9.
Soap and the like, Treatment of black liquor. L. J. Christmann and A. G. Houpt. 2,285,902; June 9.
Solder feeder. P. E. Pearson. 2,285,872; June 9.
Sols and aerogels, Producing. M. D. Marshall. 2,285,449; June 9.
Sols, Producing. J. F. White. 2,285,477; June 9.
Solvent extraction of glycerides. A. H. Batchelor. 2,285,795; June 9.
Sound absorbing material. W. Esser. 2,285,423; June 9.
Sound-deadening material and method. G. A. Halfvarson. 2,285,924; June 9.
Sound reproducing system. H. L. Forster. 2,285,769; June 9.
Spectacle frame, Invertible. J. Ruchser. 2,285,615; June 9.
Speed apparatus, Variable. E. Grossenbacher. 2,285,431; June 9.
Speed indicator, Variable. P. Kollsman. 2,285,521; June 9.
Spine stretcher J. W. Cole. 2,285,494; June 9.
Spinning and twisting frame. A. E. Winslow. 2,285,879; June 9.
Spinning box. H. J. McDermott. 2,285,995; June 9.
Spinning device. H. D. Else. 2,285,648; June 9.
Spring suspension. N. E. Wahlberg. 2,285,954; June 9.
Stacking machine. H. Hill. 2,285,814; June 9.
Stand: *See*—
Light stand.
Staple driver. W. L. Schott. 2,285,384; June 9.
Stapling machine. J. J. Harley. 2,285,512; June 9.
Stapling machine. W. G. Pankonin. 2,286,155; June 9.
Starter switch. C. Chirelstein. 2,285,805; June 9.
Stationary contact. H. G. Blosser. 2,285,890; June 9.
Stoker feeding apparatus. A. De Los Sinden. 2,285,767; June 9.
Storage rack. L. F. Urbain. 2,285,632; June 9.
Stoves, Construction for. R. C. Sabins. 2,285,746; June 9.
Strainer, Disposable drain. I. R. Platt. 2,285,833; June 9.
Strand materials and package produced thereby, Winding. C. H. Jones. 2,285,438; June 9.
Street sign. P. B. McBride. 2,285,735; June 9.
Stroboscope. R. W. Young and A. Loomis. 2,286,030; June 9.
Structure, Composite. J. L. Rodgers, Jr., and C. E. Slaughter. 2,285,614; June 9.
Styrene co-polymer compositions. E. C Britton, G. H. Coleman, and J. W. Zemba. 2,285,562; June 9.
Sulphite liquor recovery, Waste. G. H. Tomlinson. 2,285,876; June 9.
Supply container for photographic plates. W. Rabkin. 2,286,010; June 9.
Support: *See*—
Adjustable support.
Clothes hanger support.
Plant support.
Supporter, Sacroiliac and abdominal. L. M. Rehthaler. 2,285,612; June 9.
Supporting device for infants. M. M. Chapman. 2,285,900; June 9.
Suppressor, Image wave. F. Cutting. 2,285,766; June 9.
Surface preparation of bearings for babbitting. L. D. Jennings and R. A. Taylor. 2,285,583; June 9.
Surface treatment for aluminum. C. J. Slunder. 2,285,468; June 9.
Surveying, Method of and apparatus for seismic. O. S. Petty. 2,285,610; June 9.
Sweeper and dust pan, Combined. O. Schlacter. 2,286,113; June 9.
Switch: *See*—
Crossbar switch.
Disconnecting switch.
Electric switch.
Pressure switch.
Signal horn switch.
Starter switch.
Switch. C. E. Gary. 2,285,577; June 9.
Switch construction. N. C. Schellenger. 2,286,162–3; June 9.
Switch manipulating means. E. Botuck. 2,285,561; June 9.
Switch of the type used in telephone systems, Automatic. G. Dewar. 2,285,694; June 9.
Switch structure. J. W. Samzelius. 2,286,111; June 9.
Switching device. J. Wegener, M. Zuhlke, and F. Koppelmann. 2,285,691; June 9.
Tab attachment for goloshes, Pull. H. Tamaki. 2,285,751; June 9.
Table: *See*—
Folding table.
Tail stock, Adjustable. E. Moen. 2,285,753; June 9.
Tank and fuel system for aircraft, Safety. W. W. Paget. 2,285,830; June 9.
Tape, Making insulating. C. Mosier and J. L. Mohun, Jr. 2,285,755; June 9.

Telegraph distributor, Multiplex. R. E. Mathes. 2,285,598; June 9.
Telemetric system. G. Hempel. 2,285,969; June 9.
Telephone set circuit. M. den Hertog. 2,286,069; June 9.
Telephone set, Desk. H F. Obergfell. 2,286,174; June 9.
Telephone system. W. H. T. Holden, F. A. Hubbard, and W. H. Martin. 2,285,972; June 9.
Telephone system. M. A. Logan. 2,285,524; June 9.
Television and sound system. I. R. Goshaw. 2,285,509; June 9.
Temperature control for rectifier tubes. J. L. Finch. 2,285,506; June 9.
Tenpin setting apparatus. B. A. Ball. 2,285,642; June 9.
Tension regulator. C. R. Hanna and S. J. Mikina. 2,285,654; June 9.
Tenter chain. H. A. MacKnight. 2,285,820; June 9.
Terminal. W. V. Johnson. 2,286,097; June 9.
Terminal plug. C. F. Norberg and R. E. Sears. 2,286,101; June 9.
Textile-treating chemicals and making same. J. B. Rust. 2,285,948; June 9.
Thermostat. E. Bletz. 2,286,053; June 9.
Thermostat, Two stage. C. G. Kronmiller. 2,285,446; June 9.
Thread, Unwinding. E. C. Kontz, Jr. 2,285,667; June 9.
Tile, Accoustical. L. F. Urbain. 2,285,631; June 9.
Time delay relay. J. D. Myers. 2,285,677; June 9.
Time delay transfer mechanism. H. H. Andersen and D. G. Cameron. 2,285,882; June 9.
Time observations, Evaluating and indicating the average value of successive. P. F. Everitt. 2,285,856; June 9.
Tire-building machine. J. I. Haase. 2,285,922; June 9.
Tire chain appliance. H. N. Ridgway. 2,286,011; June 9.
Tire inflator. J. C. Crowley. 2,285,569; June 9.
Tire, Pneumatic. J. J. Jacobson. 2,285,929; June 9.
Tire retreading mold. H. I. Houlette. 2,286,134; June 9.
Tobacco, Moistening. H. L. Smith, Jr., and L. N. Jones. 2,285,469; June 9.
Tongs, Pipe. P. W. Lange and H. A. McFarland. 2,286,099; June 9.
Tool: *See*—
Fishing tool.
Machine tool.
Piston ring tool.
Sheet metal working tool.
Tool holder for lathes. W. F. Groene. 2,285,771; June 9.
Toothbrush. E. P. Lowe and A. V. Lowe. 2,285,865; June 9.
Toothbrush, Rotary. M. C. Grout and M. E. Frost. 2,285,505; June 9.
Torque converter. F. De Buigne. 2,285,910; June 9.
Toy amusement device for simulating aircraft in flight. H. A. Kroll. 2,285,988; June 9.
Traffic controlling apparatus, Railway. J. M. Pelikan and R. Mills. 2,286,007; June 9.
Transmission or the like. R. S. Condon. 2,286,063; June 9.
Transmission, Power. D. V. Smyth. 2,286,020; June 9.
Transmitter, receiver, and amplification system. H. Karl. 2,285,585; June 9.
Transmitter, Short wave. P. F. Byrne. 2,285,851; June 9.
Trap: *See*—
Airplane trap.
Sewer trap.
Trap for suction conduits, Condensate. C. N. Cahusac and F. B. Allen. 2,285,802; June 9.
Tray, Freezing. H. D. Geyer and F. W. Sampson. 2,285,712; June 9.
Tray, Freezing. H. D. Geyer. 2,286,080; June 9.
Tray, Ice. J. H. Miner. 2,285,605; June 9.
Trimmer, Hedge. D. D. Welch. 2,286,043; June 9.
Trimming machine, Shoe sole. A. Soltan. 2,286,121; June 9.
Trough washer. N. L. Davis, J. D. S. Drinkwater, and T. O. Carlisle. 2,286,067; June 9.
Tube compressor device. F. H. Maloney. 2,285,821; June 9.
Tube cooling means. J. A. Hutcheson. 2,285,662; June 9.
Tubes and other hollow articles, Manufacture of. H. Dreyfus. 2,285,502; June 9.
Tubes, Making bomb burster. T. W. Pedersen. 2,285,609; June 9.
Tubular articles, Method and apparatus for forming. C. W. Cuno. 2,285,497; June 9.
Turbid aqueous solutions, Composition for and method of clarifying. R. R. Magill. 2,285,992; June 9.
Turntable. E. V. Schneider. 2,286,015; June 9.
Twister cap. L. J. Jordan, R. F. Bergmann, and A. H. Burkholder. 2,285,584; June 9.
Typewriters, Link connection for automatic. H. W. Kloid. 2,285,444; June 9.
Unbalance indicator, Electric. R. W. De Monte. 2,285,912; June 9.
Uniform pressure distributing seat. R. G. Handy. 2,285,925; June 9.
Universal joint. C. E. Swenson and E. B. Anderson. 2,285,623; June 9.
Utility device, Kitchen. R. H. Jordan. 2,285,816; June 9.
Valve: *See*—
Damper or valve.
Fluid controlling valve.
Hydraulic reducing valve.
Hydraulic valve.
Valve. F. M. Powe. 2,286,009; June 9.
Vapor electric device. W. B. Batten. 2,285,556; June 9.
Vapor generator. H. J. Kerr. 2,285,442; June 9.
Vapor generator, Multiple bundle. F. K. Fischer. 2,285,651; June 9.
Variable condenser. C. G. F. Dietsch. 2,285,499; June 9.
Vehicle construction. L. H. Thomas. 2,285,543; June 9.
Vehicle lift. P. J. Kroll. 2,285,989; June 9.
Vehicle water system. E. C. Horton. 2,285,581; June 9.
Vehicle wheel, Rail. E. H. Piron. 2,286,103; June 9.
Vending machine. C. R. Holcomb, Jr. 2,285,435; June 9.
Vending machine. J. Kruckewitt and J. A. Donahoe. 2,285,931; June 9.
Ventilating installation in tunnels. A. Bartholomäi. 2,285,387; June 9.
View-transmission system. V. K. Zworykin. 2,285,551; June 9.
Viewing device. H. Bernzott. 2,285,644; June 9.
Walker and serving table, Combined. V. T. Milward. 2,285,778; June 9.
Washer: *See*—
Trough washer.
Washing machine cylinders, Closure for. H. C. A. Meyer and C. M. Clarke. 2,285,935; June 9.
Water heating device. W. L. Morrison and R. E. Moore. 2,285,998; June 9.
Water pump. N. E. Wahlberg. 2,285,953; June 9.
Water, Purifying. R. C. Swain. 2,285,750; June 9.
Wave films and polarizing systems containing them, Fractional. E. D. Bailey. 2,285,792; June 9.
Waves for transmission or recording, Treatment of speech. H. W. Dudley. 2,286,072; June 9.
Waving device, Permanent. M. Haberman. 2,285,653; June 9.
Web feeding mechanism. A. K. Allen. 2,285,790; June 9.
Web feeding mechanism. J. A. Neumair. 2,285,939; June 9.
Web roll feeding mechanism. D. G. Bernard. 2,285,488; Weighing device. A. J. Jerome and M. A. Weckerly. 2,285,719; June 9.
Welding apparatus. F. B. Tuttle. 2,286,028; June 9.
Welding apparatus, Thermit. W. R. Evans. 2,286,075; June 9.
Welding apparatus. J. F. Peters and R. H. Wright. 2,286,102; June 9.
Welding equipment. H. T. Platz. 2,286,104; June 9.
Well survey method and apparatus. S. A. Scherbatskoy. 2,285,840; June 9.
Well surveying method and apparatus. R. F. Davis. 2,285,809; June 9.
Wheel: *See*—
Vehicle wheel.
Wheel gauge. O. L. Halstead. 2,285,965; June 9.
Wheel locking device. S. H. Swift. 2,285,541; June 9.
Wheels, Trimming shaped grinding. A. C. Wickman. 2,286,046; June 9.
Winch drag mechanism. W. W. Haase. 2,285,923; June 9.
Winding machine. C. H. Jones. 2,285,439; June 9.
Window cleaning appliance, Atomizer type. C. H. Caldwell. 2,285,412; June 9.
Windshield cleaner. E. C. Horton and A. Rappl. 2,286,035; June 9.
Windshield cleaner. W. E. O'Shei. 2,286,004; June 9.
Windshield cleaner motor. E. W. Sibley. 2,285,021; June 9.
Windshield wiper mounting. A. C. Scinta. 2,285,618; June 9.
Wing lift varying device for aircraft, Automatic. P. E. Mercier. 2,286,150; June 9.
Wiping device, Line. D. M. G. Miller. 2,285,742; June 9.
Wire fabric, Making coated. H. L. Edick and C. F. Wickwire. 2,286,073; June 9.
Wire feeding device. H. E. Veit. 2,285,690; June 9.
Wire spring construction for upholstered furniture. W. H. Neely. 2,285,827; June 9.
Wrapper. H. G. Tasker. 2,285,542; June 9.
Wrapping band and securing means. J. W. Steele. 2,286,181; June 9.
Wrapping machine, Stick. A. C. Hopkins. 2,285,715; June 9.
Wrench: *See*—
Adjustable wrench.
X-ray tube and system therefor. G. W. Haug and H. B. McEuen. 2,286,091; June 9.
Yarn bodies, Supporting. H. Naumann. 2,285,826; June 9.
Yarn tension, Floating friction. E. O. Martel, Jr. 2,285,733; June 9.
Yeast propagationu. A. S. Schultz, L. Atkin, and C. N. Frey. 2,285,465; June 9.
Zein, Curing. O. C. Sturken. 2,285,758; June 9.
Zinc chloride recovery from galvanizer sal-ammoniac skimmings. S. F. Dubs. 2,285,573; June 9.

CLASSIFICATION OF PATENTS

ISSUED JUNE 9, 1942

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number—class, second number—subclass, third number—patent number

1— 20: 2,285,489
49: 2,285,384
2,285,512
2,286,155
2— 21: 2,285,981
43: 2,285,619
68: 2,285,659
2,285,660
146: 2,285,528
164: 2,285,538
183: 2,286,086
227: 2,285,692
3— 12: 2,285,885
4— 185: 2,285,900
5— 69: 2,285,474
9— 22: 2,285,400
23: 2,285,590
10— 7: 2,285,462
135: 2,286,088
12— 20: 2,285,114
33: 2,285,398
80: 2,285,484
88: 2,286,121
13— 26: 2,286,024
34: 2,285,837
15— 24: 2,285,865
28: 2,285,505
41: 2,286,113
126: 2,285,412
128: 2,286,051
147: 2,285,383
2,285,818
171: 2,285,705
210: 2,285,742
250: 2,285,618
255: 2,286,004
16— 44: 2,285,656
164: 2,285,510
17— 33: 2,285,736
44: 2,285,999
18— 17: 2,285,389
18: 2,286,134
47.5: 2,286,117
48: 2,285,758
51: 2,286,045
54: 2,285,552
56: 2,285,967
58: 2,285,502
59: 2,285,963
20— 1.6: 2,285,962
20: 2,286,062
89: 2,286,068
21— 58: 2,285,950
22— 3: 2,285,680
57.4: 2,285,740
58: 2,286,075
73: 2,285,847
116: 2,285,812
204: 2,285,811
216: 2,285,523
23— 97: 2,285,573
102: 2,285,443
104: 2,285,843
131: 2,285,576
135: 2,285,464
202: 2,285,485
2,285,486
272: 2,285,930
288: 2,285,716
24— 3: 2,285,670
17: 2,286,181
20: 2,285,850
199: 2,285,714
207: 2,286,149
221: 2,285,661
25— 30: 2,285,497
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29— 6: 2,285,772
29— 8: 2,285,459
64: 2,285,571
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33— 46: 2,285,723
56: 2,286,147
174: Re.22,110
2,285,741
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37— 142: 2,285,455
38— 77: 2,285,757
39— 5: 2,285,664
40— 133: 2,285,613
2,285,907
145: 2,285,735
41— 26: 2,285,599
42: 2,285,468
42— 1: 2,285,503
3: 2,286,133
43— 25: 2,285,888
45— 59: 2,285,576
136: 2,285,996
46— 35: Re.22,109
77: 2,285,988
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47— 47: 2,285,522
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48— 66: 2,286,054
49— 14: 2,286,078
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157: 2,286,141
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68— 206: 2,286,107
70— 259: 2,285,541
71— 9: 2,285,834
72— 41: 2,285,693
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118: 2,285,631
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74— 25: 2,285,534
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63: 2,285,910
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143: 2,286,154
194: 2,285,675
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230.3: 2,286,152
255: 2,285,870
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82— 31: 2,285,753
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14: 2,286,030
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49: 2,285,537
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19: 2,286,010
96— 25: 2,286,136
98— 2: 2,285,725
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99— 103: 2,286,164
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123— 32: 2,285,671
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125— 11: 2,285,717
2,286,046
34: 2,285,702
126— 58: 2,285,746
215: 2,285,696
128— 35: 2,286,089
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129— 1: 2,286,128
13: 2,286,060
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138— 94: 2,285,392
2,285,393
2,285,779
139— 1: 2,285,385
21: 2,285,793
273: 2,285,787
140— 125: 2,285,690
143— 187: 2,285,713
144— 93: 2,286,096
146— 4: 2,285,567
130: 2,285,951
168: 2,286,177
177: 2,285,721
148— 9: 2,285,518
12: 2,286,064
150— 38: 2,285,906
152— 237: 2,286,011
330: 2,285,929
154— 1: 2,285,447
2: 2,285,526
9: 2,285,922
28: 2,285,755
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42: 2,285,759
44: 2,285,423
45.9: 2,286,120
46: 2,285,679
54.5: 2,285,763
155— 5.24: 2,286,138
14: 2,285,616
22: 2,285,778
30: 2,285,999
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53: 2,286,168
127: 2,285,845
179: 2,285,827
182: 2,286,171
156— 10: 2,285,919
39: 2,286,063
158— 27.4: 2,285,496
28: 2,285,704
46: 2,285,830
99: 2,285,944
117.1: 2,286,156
163— 8: 2,285,433
164— 42: 2,285,507
65: 2,285,846
86: 2,285,492
166— 9: 2,286,126
167— 30: 2,286,169
33: 2,285,409
2,285,410
170— 81: 2,285,977
159: 2,285,428
171— 95: 2,285,482
2,286,036
209: 2,285,463
229: 2,285,397
242: 2,285,798
252: 2,285,960
268: 2,285,882
312: 2,286,102
314: 2,285,620
324: 2,285,970
172— 36: 2,285,436
120: 2,286,008
126: 2,286,176
239: 2,285,415
2,285,578
2,285,673
240: 2,285,434
2,285,666
172— 278: 2,285,687
289: 2,285,917
173— 259: 2,285,545
269: 2,285,928
174— 12: 2,285,594
25: 2,286,052
63: 2,285,883
75: 2,285,529
179: 2,285,964
175— 41.5: 2,285,432
204: 2,285,691
2,286,044
312: 2,285,978
316: 2,286,061
320: 2,285,677
338: 2,285,560
363: 2,285,402
2,285,556
2,285,634
365: 2,285,934
176— 122: 2,285,796
2,285,875
124: 2,285,450
177— 7: 2,285,645
311: 2,285,912
2,286,101
327: 2,285,834
329: 2,285,544
2,285,734
351: 2,285,421
2,285,819
2,286,180
352: 2,285,610
2,285,684
2,286,106
2,286,170
380: 2,285,969
178— 5.8: 2,285,509
2,285,857
6.8: Re.22,112
7.2: 2,285,551
7.6: 2,285,593
42: 2,285,790
44: 2,285,794
2,286,029
51: 2,285,598
179— 1: 2,285,585
2,285,789
2,286,072
4: 2,285,451
6: 2,285,425
18: 2,285,524
2,285,815
2,285,906
2,285,972
2,285,965
2,286,135
2,286,142
27.51: 2,285,604
81: 2,286,069
100.3: 2,285,975
100.41: 2,286,178
115.5: 2,286,123
146: 2,286,174
171: 2,285,729
2,285,832
2,285,895
2,286,076
171.5: 2,285,896
181— 33: 2,285,924
51: 2,285,674
182— 9: 2,285,803
16: 2,285,756
183— 2.5: 2,285,973
107: 2,286,005
184— 7: 2,285,407
104: 2,285,720
187— 51: 2,286,003
188— 82: 2,285,923

188— 152: 2,285,781
189— 34: 2,286,158
92: 2,285,889
191— 12.2: 2,285,860
192— 30.5: 2,285,638
2,285,639
85: 2,285,652
135: 2,285,517
142: 2,285,414
194— 1: 2,285,532
48: 2,285,748
195— 79: 2,285,465
100: 2,285,708
196— 10: 2,285,785
2,286,129
13: 2,285,696
32: 2,285,898
49: 2,285,606
2,285,727
105: 2,285,401
197— 20: 2,285,444
177: 2,285,641
198— 109: 2,285,558
199: 2,286,055
200— 1: 2,286,077
6: 2,285,575
2,285,667
2,285,916
2,286,022
17: 2,286,033
48: 2,286,131
52: 2,286,144
59: 2,286,016
67: 2,286,162
2,286,163
81: 2,285,711
82: 2,286,023
87: 2,285,467
2,285,479
113: 2,285,805
116: 2,285,770
120: 2,285,602
139: 2,285,446
147: 2,285,643
159: 2,285,887
2,285,986
166: 2,285,624
2,285,890
2,286,111
171: 2,285,657
172: 2,285,561
201— 63: 2,285,633
2,286,161
64: 2,285,952
66: 2,285,611

201— 67: 2,286,090
202— 42: 2,286,056
204— 10: 2,285,762
23: 2,285,553
34: 2,285,548
2,285,549
78: 2,285,858
105: 2,286,148
205— 7: 2,285,539
206— 7: 2,285,726
16: 2,285,839
30: 2,285,607
38: 2,285,836
44: 2,285,991
47: 2,285,600
209— 6: 2,286,132
91: 2,285,955
166: 2,285,394
315: 2,285,678
454: 2,286,067
210— 8: 2,285,697
23: 2,285,992
24: 2,285,750
76: 2,285,547
170: 2,285,833
2,285,997
199: 2,285,649
2,285,894
211— 36: 2,285,491
60: 2,285,632
107: 2,285,411
153: 2,285,764
213— 32: 2,285,938
214— 7: 2,285,814
8.5: 2,286,165
95: 2,285,475
215— 12: 2,285,614
38: 2,286,070
216— 2: 2,286,159
52: 2,285,921
219— 4: 2,286,104
10: 2,285,554
2,285,609
32: 2,285,904
38: 2,285,776
220— 9: 2,286,109
39: 2,286,175
41: 2,285,933
51: 2,286,124
221— 64: 2,285,835
128: 2,286,143
145: 2,285,971
223— 40: 2,286,058
57: 2,286,057
2,286,059

223— 73: 2,285,990
224— 45: 2,285,801
48: 2,285,566
226— 71: 2,286,130
82: 2,285,867
85: 2,286,079
116: 2,285,627
229— 8: 2,285,391
23: 2,285,873
27: 2,285,399
2,285,731
41: 2,285,786
51: 2,285,542
72: 2,285,807
230— 58: 2,285,754
60: 2,285,823
114: 2,285,976
128: 2,285,799
206: 2,285,426
234— 5.5: 2,285,859
235— 2: 2,286,116
60: 2,285,640
61: 2,285,856
70: 2,285,722
79.5: 2,285,774
98: 2,285,568
137: 2,285,427
144: 2,285,825
2,285,844
236— 1: 2,285,513
2,285,749
9: 2,286,137
15: 2,285,564
68: 2,285,913
82: 2,285,540
237— 12.3: 2,285,672
240— 1.3: 2,285,868
6.45: 2,285,454
11.3: 2,285,589
41.3: 2,285,408
41.5: 2,285,591
81: 2,285,724
242— 43: 2,285,439
45: 2,285,654
64: 2,285,488
75: 2,285,939
84.5: 2,285,493
118: 2,285,732
128: 2,285,667
129: 2,285,826
150: 2,285,733
157: 2,286,140
159: 2,285,438
244— 42: 2,286,150
246— 38: 2,285,891

246— 38: 2,286,002
41: 2,285,881
2,285,936
63: 2,285,937
124: 2,285,880
160: 2,286,006
2,286,007
378: 2,285,559
248— 58: 2,286,118
117.1: 2,285,747
250— 16: 2,285,437
2,285,499
17: 2,285,851
20: 2,285,766
2,285,979
27: 2,285,662
2,285,957
27.5: 2,285,504
2,285,506
33: 2,285,395
2,285,565
2,285,588
2,285,669
2,286,179
40: Re.22,111
43: 2,285,622
64: 2,285,943
83.6: 2,285,809
2,285,840
99: 2,286,091
106: 2,285,440
175: 2,285,848
251— 5: 2,285,821
11: 2,285,829
159: 2,285,533
164: 2,285,655
252— 25: 2,285,452
2,285,453
2,285,739
32: 2,285,752
51: 2,285,854
2,285,878
53: 2,285,853
2,285,855
99: 2,285,676
237: 2,285,804
254: 2,285,396
306: 2,285,449
311.5: 2,285,579
312: 2,285,422
2,285,940
313: 2,285,477
321: 2,285,744
254— 89: 2,285,989
192: 2,285,791

257— 236: 2,285,651
245: 2,285,908
259— 1: 2,285,816
154: 2,285,765
161: 2,285,685
260— 9: 2,285,501
23: 2,285,420
2,285,797
32: 2,286,062
36: 2,285,562
2,285,570
70: 2,285,418
81: 2,285,416
2,285,417
97.5: 2,285,902
109: 2,285,628
225: 2,285,536
231: 2,285,514
243: 2,285,511
295: 2,285,948
313: 2,285,413
400: 2,285,773
428: 2,285,795
475: 2,285,516
504: 2,285,390
507: 2,285,483
531: 2,285,914
533: 2,285,601
535: 2,285,886
584: 2,285,419
601: 2,286,125
602: 2,286,034
2,286,037
613: 2,285,625
619: 2,285,626
620: 2,285,563
626: 2,285,473
635: 2,285,448
683: 2,285,920
755: 2,285,458
793: 2,285,813
261— 83: 2,286,157
112: 2,285,668
262— 8: 2,285,706
28: 2,285,861
2,285,862
263— 15: 2,285,508
19: 2,285,718
265— 1: 2,285,580
1.6: 2,285,471
28: 2,285,719
44: 2,285,586
47: 2,285,892
48: 2,285,926
49: 2,285,927

265— 68: 2,285,500
266— 3: 2,285,949
23: 2,285,519
270— 1: 2,286,094
271— 2.1: 2,286,084
7: 2,286,032
272— 15: 2,285,535
273— 42: 2,285,642
95: 2,286,151
103: 2,285,782
274— 39: 2,286,015
277— 3: 2,286,173
279— 19.3: 2,285,608
102: 2,285,956
280— 5: 2,285,543
33.55: 2,286,166
36: 2,285,700
96.3: 2,285,445
124: 2,285,954
283— 9: 2,285,806
285— 11: 2,286,122
143: 2,286,105
287—52.02: 2,286,035
119: 2,285,803
290— 1: 2,285,849
4: 2,285,775
17: 2,285,962
40: 2,285,587
292— 212: 2,285,728
214: 2,285,682
294— 102: 2,285,838
119: 2,286,071
295— 11: 2,286,103
297— 15: 2,286,053
299— 140: 2,285,495
2,285,689
144: 2,285,831
304— 2: 2,285,901
20: 2,285,663
306— 21: 2,285,629
308— 20: 2,285,647
137: 2,285,784
152: 2,285,681
205: 2,285,800
309— 4: 2,285,863
45: 2,285,530
47: 2,285,961
311— 83: 2,285,597
312— 33: 2,286,127
45: 2,285,931
50: 2,285,899
78: 2,286,065
93: 2,285,435
176: 2,285,745
314— 7: 2,286,028

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,285,399: 229— 27
2,285,404: 74— 573
2,285,420: 260— 23
2,285,430: 106— 30
2,285,435: 312— 93
2,285,452: 252— 25
2,285,458: 260— 755
2,285,468: 41— 42

2,285,501: 260— 9
2,285,518: 148— 9
2,285,520: 62— 7
2,285,574: 102— 3
2,285,576: 45— 59
2,285,581: 137— 73
2,285,622: 250— 43
2,285,668: 261— 112

2,285,676: 252— 99
2,285,679: 154— 46
2,285,693: 72— 41
2,285,702: 125— 34
2,285,724: 240— 81
2,285,725: 98— 2
2,285,731: 229— 27
2,285,736: 17— 33

2,285,740: 22— 57.4
2,285,752: 252— 32
2,285,765: 259— 154
2,285,780: 30— 182
2,285,793: 139— 21
2,285,847: 22— 73
2,285,850: 24— 20

2,285,852: 117— 141
2,285,854: 252— 51
2,285,883: 174— 63
2,285,924: 181— 33
2,285,940: 252— 312
2,285,943: 250— 64
2,285,946: 62— 4
2,285,969: 177— 380

2,285,977: 170— 81
2,286,018: 106— 272
2,286,025: 62— 2
2,286,028: 314— 7
2,286,039: 81— 3.36
2,286,091: 250— 99
2,286,097: 29—155.55
2,286,159: 216— 2

U. S. GOVERNMENT PRINTING OFFICE: 1942

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Acrotorque Company, The, Cleveland, Ohio. Hydraulic pumps and motors, and parts thereof, transmissions, etc. Serial Nos. 443,796–7; June 23. Class 23.

Albert, Louis I., New York, N. Y. Hand screw-drivers. Serial No. 450,410; June 23. Class 23.

Alden Mills, The, New Orleans, La. Ladies' hosiery. Serial No. 448,180; June 23. Class 39.

Allied Press, Grand Rapids, Mich. Photographs. Serial No. 446,852; June 23. Class 38.

Alter, Harry, Co., The, doing business as Tele-Golf Fairways, Chicago, Ill. Golf score cards. Serial No. 443,030; June 23. Class 37.

American Public Power Association, Washington, D. C. Pamphlets, booklets, bulletins, etc. Serial No. 451,995; June 23. Class 38.

Axel Bros. Inc., New York, N. Y. Finger rings, bracelets, watch bracelets, etc. Serial No. 442,158; June 23. Class 28.

Barber, W. H., Company, Minneapolis, Minn. Petroleum products. Serial No. 451,958; June 23. Class 15.

Barz, Herman, New York, N. Y. Leather sweatbands for hats and caps. Serial No. 452,684; June 23. Class 39.

Beacon Importing Company, Boston, Mass. Canned salmon. Serial No. 450,844; June 23. Class 46.

Bird & Son, Inc., East Walpole, Mass. Floor covering. Serial No. 452,738; June 23. Class 20.

Borden Company, The, New York, N. Y. Aqueous solutions of casein with added chemical ingredients. Serial No. 451,044; June 23. Class 11.

Botany Worsted Mills, Passaic, N. J. Woolen and worsted piece goods. Serial No. 450,271; June 23. Class 42.

Bressler Editorial Cartoons, Inc., New York, N. Y. Posters. Serial No. 452,953; June 23. Class 38.

Brockway Glass Company, Inc., Brockway, Pa. Glass bottles. Serial No. 452,575; June 23. Class 33.

Buffalo Industrial Bank, Buffalo, N. Y. Printed forms and account cards. Serial No. 445,171; June 23. Class 37.

Christensen, Peter Ch., Newark, N. J. Vitamin tablets and capsules. Serial No. 447,508; June 23. Class 6.

Companhia Antarctica Paulista, Sao Paulo, Brazil. Natural mineral waters, beverages, syrups, etc. Serial No. 445,117; June 23. Class 45.

Companhia Antarctica Paulista, Sao Paulo, Brazil. Whiskies, brandies, gins, etc. Serial No. 445,118; June 23. Class 49.

Companhia Antarctica Paulista, Sao Paulo, Brazil. Wines and aperitive wines. Serial No. 447,455. June 23. Class 47.

Companhia Antarctica Paulista, Sao Paulo, Brazil. Beers, porters, and ales. Serial No. 447,456; June 23. Class 48.

Consolidated Outdoor Display Company, Fremont, Ohio. Reflecting letters for use in making highway advertising signs. Serial No. 448,446; June 23. Class 50.

Crystal, David, Inc., New York, N. Y. Textile fabrics. Serial No. 452,008; June 23. Class 42.

Crystal, David, Inc., New York, N. Y. Textile fabrics. Serial No. 452,010; June 23. Class 42.

Crystal, David, Inc., New York, N. Y. Textile fabrics. Serial No. 452,162; June 23. Class 42.

Deering Milliken & Co. Inc., New York, N. Y. Sheets and pillow cases. Serial No. 451,891; June 23. Class 42.

Delapp and Company. (See Delapp, H. Earl.)

Delapp, H. Earl, doing business as Delapp and Company, Waseca, Minn. Cattle feed and poultry feed. Serial No. 446,076; June 23. Class 46.

Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Frankfort-on-the-Main, Germany. Chemical products. Serial No. 450,732; June 23. Class 6.

Drittel, Julius, Inc., Elizabeth, N. J. Women's and misses' negligees, play suits, beach suits, etc. Serial No. 428,801; June 23. Class 39.

Eastern Footwear Corporation, Dolgeville, N. Y. Shoes. Serial No. 442,413; June 23. Class 39.

Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Rubber squeegees. Serial No. 451,809; June 23. Class 29.

Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Lubricating oil. Serial No. 451,814; June 23. Class 15.

Electrographic Corporation, New York, N. Y. Thin metallic printing plates secured to curved rigid bases. Serial No. 451,431; June 23. Class 50.

Evangeline Refining Company, Jennings, La. Motor fuel oils. Serial No. 451,050; June 23. Class 15.

Fleetwings, Incorporated, Bristol, Pa. Publication. Serial No. 452,498; June 23. Class 38.

Flower of the Month Club Enterprises. (See Knapp, Clinton B.)

Folding Cycles Inc., New York, N. Y. Bicycles. Serial No. 452,802; June 23. Class 19.

Foreman Fabrics Corp., New York, N. Y. Cotton, rayon, acetate, and/or silk piece goods. Serial No. 448,636; June 23. Class 42.

Foundry Services, Inc., New York, N. Y. Chemical compounds, compositions, and preparations. Serial No. 451,972; June 23. Class 6.

Gale Shoe Mfg. Co., Boston, Mass. Shoes. Serial No. 450,677; June 23. Class 39.

General Chemical Company, New York, N. Y. Paste cleanser suitable for cleaning painted surfaces. Serial No. 451,768; June 23. Class 4.

Hillsborough Packing Company, Inc., Tampa, Fla. Fresh citrus fruits. Serial No. 452,612; June 23. Class 46.

Hoffman, Harold, New York, N. Y. Combination of extracts. Serial No. 451,037; June 23. Class 6.

Hollywood Rogue Sportswear, Inc., Los Angeles, Calif. Shirts for men and women, slack suits, pajamas, etc. Serial No. 452,724; June 23. Class 39.

House of Tre-Jur, Inc., New York, N. Y. Toilet water, perfume, talcum powder, etc. Serial No. 452,726; June 23. Class 6.

Hunt Brothers Packing Company, San Francisco, Calif. Canned fruits, canned vegetables, and canned fish. Serial No. 452,323; June 23. Class 46.

Independent Blue Print & Supply Company. (See Independent Music Publishers.)

Independent Blue Print & Supply Company, also doing business as Independent Music Publishers, New York, N. Y. Blue prints, photo-stats, photoprints, etc. Serial No. 450,646; June 23. Class 38.

Independent Music Publishers. (See Independent Blue Print & Supply Company.)

Independent Music Publishers, doing business as Independent Blue Print & Supply Company, New York, N. Y. Blue prints, photo-stats, photo-prints, etc. Serial No. 450,647; June 23. Class 38.

International Paper Company, New York, N. Y. Printing paper. Serial No. 446,945; June 23. Class 37.

International Paper Company, New York, N. Y. Writing and typewriting paper. Serial No. 446,946; June 23. Class 37.

International Paper Company, New York, N. Y. Wrapping paper. Serial No. 451,534; June 23. Class 37.

Irwin Auger Bit Company, The, Wilmington, Ohio. Auger bits for cabinet work. Serial No. 434,721; June 23. Class 23.

Isbell, Vernon, Fort Worth, Tex. Permanent wave machines. Serial No. 411,781; June 23. Class 44.

Johnston, Charles F., Oakland, Calif. Piston expanders. Serial No. 448,794; June 23. Class 23.

Karp, Max S., Los Angeles, Calif. Automobile burglar alarms. Serial No. 452,129; June 23. Class 21.

Kingan & Co. Incorporated, Indianapolis, Ind. Cooked hams in tins and wieners. Serial No. 451,626; June 23. Class 46.

Kleinert, I. B., Rubber Company, New York, N. Y. Dress shields. Serial No. 426,568; June 23. Class 40.

Knapp, Clinton B., doing business as Flower of the Month Club Enterprises, Battle Creek, Mich. Coupons and certificates. Serial No. 429,659; June 23. Class 38.

Kofsky Bros., Inc., New York, N. Y. Fur skins. Serial No. 448,388; June 23. Class 1.

Kratt, George C., Jr., Nisswa, Minn. Lubricant. Serial No. 452,169; June 23. Class 15.

Lace Net Importing Co., Inc., New York, N. Y. Net fabrics in the piece. Serial No. 452,286; June 23. Class 42.

Lasseo Products, Inc., Rochester, N. Y. Paper drill. Serial No. 447,742; June 23. Class 23.

Linen Thread Co., Inc., The, New York, N. Y. Nets and netting. Serial No. 450,164; June 23. Class 42.

Lowe, Joe, Corporation, New York, N. Y. Fruit flavoring concentrate. Serial No. 430,410; June 23. Class 46.

Many, Blanc & Co., Inc., Chicago, Ill. Rums. Serial No. 452,910; June 23. Class 49.

Melodee-Lane Lingerie, Inc., New York, N. Y. Slips, brassières, panties, etc. Serial No. 452,360; June 23. Class 39.

Merco Nordstrom Valve Company, Pittsburgh and Homewood Pittsburgh, Pa. Lubricating greases. Serial No. 451,936; June 23. Class 15.

Narjos, Inc., Boston, Mass. Ladies' shoes. Serial No. 452,677; June 23. Class 39.

National Fabrics Corporation, New York, N. Y. Textile fabrics. Serial No. 450,740; June 23. Class 42.

National Gypsum Company, Buffalo, N. Y. Building construction materials comprising rock wool. Serial No. 451,985; June 23. Class 12.

National Gypsum Company, Buffalo, N. Y. Acoustical construction material. Serial No. 451,986; June 23. Class 12.

National Silver Company, New York, N. Y. Ceramic dinnerware, cooking ware, vases, etc. Serial No. 451,874; June 23. Class 30.
Parfums Schiaparelli, Inc., New York, N. Y. Perfumes, toilet waters, rouges, etc. Serial No. 449,065; June 23. Class 6.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Table cloths, card table covers, scarfs, etc. Serial No. 452,203; June 23. Class 42.
Pennshire Shirt Company, New York, N. Y. Men's dress and sport shirts. Serial No. 452,565; June 23. Class 39.
Philtex Fabrics, Inc., New York, N. Y. Textile fabrics. Serial No. 452,132; June 23. Class 42.
Piedmont Cotton Mills, Egan, Ga. Cotton twine. Serial No. 442,208; June 23. Class 7.
Pierrone Wineries, Inc., Garfield, N. J. Wines. Serial No. 451,318; June 23. Class 47.
Pittsburgh Plate Glass Company, Pittsburgh, Pa. Brushes. Serial No. 452,329; June 23. Class 29.
Potts, Horace T., Co., Philadelphia, Pa. Bar steel. Serial No. 452,332; June 23. Class 14.
Poythress, Wm. P., & Co. Inc., Richmond, Va. Preparation for internal or external use. Serial No. 443,432; June 23. Class 6.
Pro-phy-lac-tic Brush Company, Northampton, Mass. Combs. Serial No. 452,539; June 23. Class 40.
Reliance Devices Company, Inc., New York, N. Y. Swivel attachments. Serial No. 442,602; June 23. Class 13.
Rice-Stix Dry Goods Company, St. Louis, Mo. Cotton piece goods. Serial No. 452,173; June 23. Class 42.
Riviera Packing Corporation, New York, N. Y. Canned fish. Serial No. 452,585; June 23. Class 46.
Rosenfeld, Max, Brooklyn, N. Y. Men's suits and overcoats. Serial No. 452,226; June 23. Class 39.
Rosenthal & Doucette, Inc., Beverly, Mass., and New York, N. Y. Women's, ladies', and misses' shoes. Serial No. 452,434; June 23. Class 39.
Russell, W. A., & Co., Bridgeport, Conn. Radiator air valves. Serial No. 452,838; June 23. Class 13.
Sanchez, Hipolito, doing business as Sanchez Winery, Cucamonga, Calif. Wines. Serial No. 452,204; June 23. Class 47.
Schuckl & Co., Inc., also doing business as Sunnyvale Packing Company, San Francisco, Calif. Fruits in glass and canned vegetables. Serial No. 452,461; June 23. Class 46.
Schwab, Leopold B., New York, N. Y. Men's hosiery. Serial No. 446,466; June 23. Class 39.
Schwartz, Adolph, New York, N. Y. Toy pistol holsters. Serial No. 452,939; June 23. Class 22.
Scully Signal Company, Cambridge, Mass. Liquid level detecting alarm attachments for liquid supply line nozzles to warn operator when tank is full. Serial No. 451,058; June 23. Class 26.
Sears, Roebuck and Co., Chicago, Ill. Billfolds. Serial No. 452,913; June 23. Class 3.
Strellinger, Chas. A., Co., The, Detroit, Mich. Lubricating oils and greases. Serial No. 450,946; June 23. Class 15.
Sunnyvale Packing Company. (See Schuckl & Co., Inc.)
Tabin-Picker & Company, Chicago, Ill. Cotton and rayon and cotton and rayon mixed goods in the piece. Serial No. 451,880; June 23. Class 42.
Tausend, Felix, & Sons, New York, N. Y. Table cloths, napkins, scarfs, and doilies. Serial No. 450,751; June 23. Class 42.
Tele-Golf Fairways. (See Alter, Harry.)
Toby, New York, N. Y. Scarfs for men and ladies, collars for ladies' dresses, jerkins, and dickeys. Serial No. 452,487; June 23. Class 39.
Tribune Company, Chicago, Ill. Series of cartoons. Serial No. 452,177; June 23. Class 38.
Ulmann, Bernhard, Co. Inc., New York, N. Y. Art needlework yarns. Serial Nos. 452,660–1; June 23. Class 43.
Ultra-Life Laboratories, Inc., East St. Louis, Mo. Animal sterol for use in poultry and animal feeds. Serial No. 452,113; June 23. Class 6.
United Press Associations, New York, N. Y. Printed press release. Serial No. 451,948; June 23. Class 38.
United Press Associations, New York, N. Y. Printed press releases. Serial No. 451,949; June 23. Class 38.
United Press Associations, New York, N. Y. Printed press releases. Serial Nos. 451,951–2; June 23. Class 38.
Urbana Wine Company, Inc., Urbana, N. Y. Vermouths. Serial No. 450,755; June 23. Class 47.
Wallace & Tiernan Products Incorporated, Belleville, N. J. Hormorne compositions. Serial No. 452,757; June 23. Class 6.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Gas converters for heat treating furnaces. Serial No. 451,920; June 23. Class 34.
Whiting Corporation, Harvey, Ill. Table structures for use with jacks in raising and lowering vehicle wheels in pits, locomotive hoists, etc. Serial No. 448,122; June 23. Class 23.
Williamson Candy Company, Chicago, Ill. Candy. Serial No. 452,179; June 23. Class 46.
X-Pando Corporation, Long Island City, N. Y. Coating materials. Serial No. 451,252; June 23. Class 12.
Youth Associates Company, Minneapolis, Minn. Periodical. Serial No. 451,758; June 23. Class 38.

LIST OF REGISTRANTS OF TRADE-MARKS

American Calendar Company, The, to American Calendar Company, Inc., Greeneville, Tenn., successor. Calendars. 155,191; renewed May 23, 1942.
American Chemical Paint Company, Philadelphia, to American Chemical Paint Company, Ambler, Pa. Fluid soldering flux. 157,301; renewed Aug. 1, 1942.
American Horseman. (See Brooks, Cleonae W.)
American Lady Corset Company, Detroit, Mich. Corsets and brassières. 154,862; renewed May 16, 1942.
American Optical Company, Southbridge, Mass. Eye protection lenses and blanks for making the same. 395,984; June 23; Serial No. 444,959; published Apr. 14, 1942. Class 26.
Atlantic Refining Company, The, Philadelphia, Pa. Gasoline, furnace oils and fuel oils. 395,991; June 23; Serial No. 446,646; published Mar. 31, 1942. Class 15.
Atlantic Refining Company, The, Philadelphia, Pa. Gasoline. 396,001; June 23; Serial No. 448,886; published Mar. 31, 1942. Class 15.
American Safety Razor Corporation, Brooklyn, N. Y. Shaving brushes. 395,987; June 23; Serial No. 445,678; published Mar. 31, 1942. Class 29.
American Writing Paper Corporation, Holyoke, Mass. Writing and printing paper. 396,041; June 23. Class 37.
Anglo Fabrics, Inc., New York, N. Y. Wool, rayon, cotton and silk piece goods. 396,059; June 23. Class 42.
Auerbach, Morris, doing business as The Auerbach Bath Robe Co., assignor to Auerbach Bath Robe Co., New York, N. Y. Robes. 160,133; renewed Oct. 17, 1942.
Avon Trading Corporation, New York, N. Y. Vegetable wax. 396,048; June 23. Class 1.
Baers, The, Chicago, Ill. Comic strip. 396,004; June 23; Serial No. 449,248; published Apr. 7, 1942. Class 38.
Baers, The, Chicago, Ill. Comic strip. 396,012; June 23; Serial No. 449,512; published Apr. 7, 1942. Class 38.
Bartmann & Bixer Inc., New York, N. Y. Window curtains. 396,038; June 23. Class 42.
Bates, Hamilton C., doing business as C. J. Bates & Son, assignor to C. J. Bates & Son, Chester, Conn. Manicure kits. 395,996; June 23; Serial No. 448,490; published Apr. 14, 1942. Class 44.
Bausch & Lomb Optical Company, Rochester, N. Y. Otoscopes. 395,985; June 23; Serial No. 445,035; published Apr. 14, 1942. Class 44.
Bay State Thread Works, Springfield, Mass. Cotton threads. 159,804; renewed Oct. 10, 1942.
Benicia Fisheries, Benicia, Calif. Canned fish. 396,044; June 23. Class 46.
Blaetz, Jacob H., assignor to George I. Blaetz, doing business as The Blaetz Co., Philadelphia, Pa. Hosiery. 161,067; renewed Nov. 7, 1942.
Bliss, Elmer J., Boston, assignor to Regal Shoe Company, Whitman, Mass. Boots and shoes. 161,068; renewed Nov. 7, 1942.
Borgfeldt, Geo., Corporation, New York, N. Y. Dolls and toy animals. 395,029; June 23; Serial No. 450,825; published Apr. 14, 1942. Class 22.
Bothe, Walter E., Bloomington, Ill. Salad dressing. 396,039; June 23. Class 46.
Bourjois, A., & Co. Inc., assignor to Bourjois, Inc., New York, N. Y. Powder, perfumes, toilet water, etc. 161,077; renewed Nov. 7, 1942.
Bradley, Milton, Company, Springfield, Mass. Linoleum blocks to be used as printing plates. 396,017; June 23; Serial No. 449,888; published Apr. 14, 1942. Class 50.
Brooks, Cleonae W., doing business as American Horseman, Lexington, Ky. Department of a periodical. 396,015; June 23; Serial No. 449,720; published Apr. 14, 1942. Class 38.
Burton-Dixie Corporation, Chicago, Ill. Pillows. 396,049; June 23. Class 32.
California Packing Corporation. (See Pacific By-Products Co., assignor.)
California Packing Corporation. (See Prince, H. G., & Co., assignor.)
California Packing Corporation, San Francisco, Calif. Canned peaches. 158,627; renewed Sept. 12, 1942.
Catalin Corporation, New York, N. Y. Hardened plastic material. 395,982; June 23; Serial No. 444,325; published Apr. 14, 1942. Class 50.
Central Chemical Corporation of Maryland, Hagerstown, Md. Feeds for poultry. 395,992; June 23; Serial No. 446,862; published Apr. 14, 1942. Class 46.
Champion Spark Plug Company, Toledo, Ohio. Spark plugs and parts thereof. 158,402; renewed Sept. 5, 1942.

Collins & Aikman Corporation, Philadelphia, Pa., and New York, N. Y. Worsted fabrics and suitings. 396,027; June 23; Serial No. 450,446; published Mar. 31, 1942. Class 42.
Columbian Carbon Company, New York, N. Y. Carbon black for use as an ink pigment. 396,018; June 23; Serial No. 449,893; published Mar. 10, 1942. Class 11.
Container Company, The, Toledo, Ohio, to The Container Company, Van West, Ohio. Pails, drums, and cheese boxes and containers. 158,643; renewed Sept. 12, 1942.
Cooperativa Nacional de Productores de Leche, Montevideo, Uruguay. Dairy products. 396,014; June 23; Serial No. 449,640; published Apr. 7, 1942. Class 46.
Day's Tailor-D Clothing, Inc., Tacoma, Wash. Piece goods of cotton, wool, etc. 396,013; June 23; Serial No. 449,545; published Mar. 31, 1942. Class 42.
Diamond, Patrick, assignor to Diamond, McDonnell & Co., Philadelphia, Pa. Washing-blue. 21,903; re-renewed Nov. 1, 1942.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Dynamite. 155,408; renewed May 30, 1942.
Eaton Laboratories. (See Jacobs, Melvin H.)
Excelsior Tobacco Co., assignor, by mesne assignments, to Excelsior Tobacco Co., Inc., St. Louis, Mo. Tobacco. 160,468; renewed Oct. 24, 1942.
Farrell Publishing Corporation, New York, N. Y. Periodical. 395,973; June 23; Serial No. 423,527; published Nov. 7, 1939. Class 38.
Feraud, A. A., Camarillo, Calif. Chili. 396,043; June 23. Class 46.
Florio, A., & Compañia, Buenos Aires, Argentina. Wines. 395,980; June 23; Serial No. 443,122; published Mar. 31, 1942. Class. 47.
General Aniline & Film Corporation, New York, N. Y. Chemicals and preparations and compounds thereof. 395,983; June 23; Serial No. 444,699; published Aug. 26, 1941. Class 6.
Golden Belt Manufacturing Company, Durham, N. C. Hosiery. 161,144; renewed Nov. 7, 1942.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Vehicle tires. 159,885; renewed Oct. 10, 1942.
Graham, William, New York, to William Graham, Brooklyn, N. Y. Leather. 160,509; renewed Oct. 24, 1942.
Green, A. P., Fire Brick Company, Mexico, Mo. Fire-brick cement. 160,512; renewed Oct. 24, 1942.
Gretsch, Fred, Manufacturing Co., The, Brooklyn, N. Y. Phonographs, phonograph records, phonograph record players, etc. 396,021; June 23; Serial No. 450,068; published Apr. 14, 1942. Class 36.
Grumbacher, Max, assignor to M. Grumbacher, New York, N. Y. Artists' brushes. 158,687–94; renewed Sept. 12, 1942.
Grumbacher, Max, assignor to M. Grumbacher, New York, N. Y. Artists' brushes. 159,363; renewed Sept. 26, 1942.
Haire Publishing Company, Inc., New York, N. Y. Directory. 396,055; June 23. Class 38.
Halgar, Inc. (See Nefsky, Joseph, assignor.)
Hansen's, Chr., Laboratory, Inc., Little Falls, N. Y. Preparations for coagulating or curdling milk. 156,854; renewed July 18, 1942.
Harman Watch Co., Inc., New York, N. Y. Watches, clocks and parts thereof. 396,060; June 23. Class 27.
Hedstrom-Schenck Coal Co., Chicago, Ill., by change of name to E. L. Hedstrom Coal Co. Coals. 159,898; renewed Oct. 10, 1942.
Hershey Creamery Company, Harrisburg, Pa. Ice cream and frozen confections. 396,034; June 23; Serial No. 451,175; published Apr. 14, 1942. Class 46.
Hodge, Otis T., St. Louis, Mo. Chili con carne and tamales. 396,057; June 23. Class 46.
Hooker Electrochemical Company, Niagara Falls, N. Y. Insecticides. 160,882–3; renewed Oct. 31, 1942.
Houston Sash & Door Company, Houston, Tex. Mill work and allied products. 395,990; June 23; Serial No. 446,457; published Mar. 31, 1942. Class 12.
Hyde Park Clothes, Inc., Newport, Ky. Men's, boys', and children's suits, and overcoats. 396,052; June 23. Class 39.
Jacobs, Melvin H., doing business as Eaton Laboratories, Chicago, Ill. Saponaceous material. 396,046; June 23. Class 4.
James Manufacturing Company, Fort Atkinson, Wis. Poultry equipment. 396,007; June 23; Serial No. 449,345; published Apr. 14, 1942. Class 50.
Kedmont Manufacturing & Waterproofing Co. (See Van Wolf, A. F.)
Kimble Glass Company, Vineland, N. J. Glass rods, tubing, and containers. 396,024; June 23; Serial No. 450,361; published Apr. 14, 1942. Class 33.
Koenig Medicine Company, Chicago, Ill. Medicines. 21,103; re-renewed May 10, 1942.
Lace-Net Importing Co. Inc., New York, N. Y. Elastic net fabrics and lace fabrics. 396,058; June 23. Class 42.
Ledogar, Hemphreys & Company, New York, N. Y. Toothbrushes. 396,023; June 23; Serial No. 450,281; published Mar. 31, 1942. Class 29.
Lewis, Addison, doing business as Photonovel Products, Ltd., Minneapolis, Minn. Books. 395,976; June 23; Serial No. 439,517; published Apr. 14, 1942. Class 38.
Lowe, Joe, Co. Inc., assignor to Joe Lowe Corporation, New York, N. Y. Powders or fillers. 159,419; renewed Sept. 26, 1942.
Lowe, Joe, Co., Inc., assignor to Joe Lowe Corporation, New York, N. Y. Dehydrated eggs, egg yolk, and egg albumen. 159,934; renewed Oct. 10, 1942.
Lynch, Buford A., Washington, D. C. Newspaper column. 396,032; June 23; Serial No. 450,983; published Apr. 7, 1942. Class 38.
Macholm Farm. (See McCullough, Willis G.)
McCullough, Willis G., doing business as Macholm Farm, Cummings Point, Stamford, Conn. Canned chicken soup. 396,056; June 23. Class 46.
Mechanite Research Institute of America, Inc., Pittsburgh, Pa. Periodical publication. 396,031; June 23; Serial No. 450,973; published Apr. 14, 1942. Class 38.
Metal Specialties Manufacturing Co., Chicago, Ill. Staples. 395,994; June 23; Serial No. 447,751; published Apr. 14, 1942. Class 37.
Metz, H. A., Laboratories, Inc., by consolidation, to Winthrop Chemical Company, Inc., New York, N. Y. Remedy. 161,232; renewed Nov. 7, 1942.
Mid-Continental Laboratories, Kansas City, Mo. Yeast culture that is mixed with live stock and poultry feeds before use. 395,981; June 23; Serial No. 443,664; published Apr. 14, 1942. Class 46.
Mills Novelty Company, Chicago, Ill. Motion picture projection apparatus. 396,025; June 23; Serial No. 450,371; published Apr. 14, 1942. Class 26.
Minkota Milling Company, Duluth, Minn., assignor, by mesne assignments, to Standard Milling Company, New York, N. Y. Wheat-flour. 21,940; re-renewed Nov. 8, 1942.
Mor-Park Preserving Corporation, San Francisco and Stockton, Calif. Canned fruits. 396,016; June 23; Serial No. 449,726; published Apr. 14, 1942. Class 46.
Murray, D. J., Manufacturing Co., Wausau, Wis. Grease traps, cess pools, basin traps, and floor drains. 396,009; June 23; Serial No. 449,381; published Apr. 14, 1942. Class 13.
Murray, D. J., Manufacturing Co., Wausau, Wis. Unit heaters, blast coils, humidifiers, etc. 396,010; June 23; Serial No. 449,383; published Apr. 14, 1942. Class 34.
National Exchange Club, The, Toledo, Ohio. Publication. 159,045; renewed Sept. 19, 1942.
Nefsky, Joseph, doing business as Smart-Kurl Wave Company, assignor to Halgar, Inc., Chicago, Ill. Permanent waving pads. 396,037; June 23. Class 44.
Neponset Woolen Mills, Incorporated, New York, N. Y., and Canton, Mass. Woolen piece goods. 396,003; June 23; Serial No. 449,239; published Mar. 31, 1942. Class 42.
New Southern Drug Company, Incorporated, Shreveport, La., assignor, by mesne assignments, to Stanco Incorporated, New York, N. Y. Chemical preparation. 155,782; renewed June 6, 1942.
Non-Mercuric Carrot Company, The, Danbury, Conn. Fur resulting from the chemical treatment of fur skins and thereafter cut from the skin. 395,993; June 23; Serial No. 447,312; published Apr. 14, 1942. Class 1.
Norcross, New York, N. Y. Greeting cards. 396,033; June 23; Serial No. 451,015; published Apr. 7, 1942. Class 38.
Osmic Chemical Company, Brockton, Mass. Liquid cleaner and spot remover for fabrics and gabardine cleaner. 395,975; June 23; Serial No. 431,739; published Apr. 14, 1942. Class 4.
Pacific By-Products Co., San Jose, assignor to California Packing Corporation, San Francisco, Calif. Charcoal. 159,978; renewed Oct. 10, 1942.
Pacific Olive Company, Visalia, Calif. Prepared food products. 396,011; June 23; Serial No. 449,431; published Apr. 14, 1942. Class 46.
Parke, Davis & Company, Detroit, Mich. Chemical, medicinal and pharmaceutical preparations. 156,384; renewed June 20, 1942.
Parke, Davis & Company, Detroit, Mich. Germicides and antiseptics. 157,369; renewed Aug. 1, 1942.
Parke, Davis & Company, Detroit, Mich. Germicides and antiseptics. 158,277; renewed Aug. 29, 1942.
Parke, Davis & Company, Detroit, Mich. Buttermilk tablets. 158,514; renewed Sept. 5, 1942.
Parke, Davis & Company, Detroit, Mich. Counterirritants. 160,939; renewed Oct. 31, 1942.
Parke, Davis & Company, Detroit, Mich. Medicine. 161,254; renewed Nov. 7, 1942.
Peerless Carbon Black Company, The, Pittsburgh, Pa. Black carbon pigment used in carbon paper, and typewriter ribbon industries. 395,977; June 23; Serial No. 441,485; published Apr. 29, 1941. Class 11.
Pen Man, The. (See United Advertising Companies, Inc.)
Pensack, Michael, New York, N. Y. Hosiery. 161,258; renewed Nov. 7, 1942.
Photonovel Products, Ltd. (See Lewis, Addison.)
Pilgrim, Lewis G., assignor to F. J. Pilgrim, Detroit, Mich. Automobile and furniture polish. 159,476; renewed Sept. 26, 1942.
Post, L. D., New York, N. Y. Magazine. 396,042; June 23. Class 38.
Press-Stencil Co. (See Walter, C. L.)
Prince, H. G., & Co., Oakland, assignor to California Packing Corporation, San Francisco, Calif. Canned fruits. 156,913; renewed July 18, 1942.

Promotions, Inc., Youngstown, Ohio. Ceramic dinnerware. 396,045; June 23. Class 30.
Pureline Company, Inc., New York, N. Y., assignor, by mesne assignments, to Sherwood Refining Company, Inc., Englewood, N. J. Medicinal and toilet preparations. 160,945; renewed Oct. 31, 1942.
Reeves Brothers, Inc., New York, N. Y. Gabardine piece goods. 396,019; June 23; Serial No. 449,919; published Mar. 31, 1942. Class 42.
Reeves Brothers, Inc., New York, N. Y. Poplin cloth. 396,020; June 23; Serial No. 449,920; published Mar. 31, 1942. Class 42.
Regal Shoe Company. (See Bliss, Elmer J., assignor.)
Rice, A. H., Company, Pittsfield, Mass. Threads and yarns. 157,187; renewed July 25, 1942.
Roberts, Weldon, Rubber Co., Newark, N. J. Discs, wheels, tablets, etc. 396,051; June 23. Class 4.
Rockwell-Barnes Company, Chicago, Ill. Binders, blank books, clip boards, etc. 158,076; renewed Aug. 22, 1942.
Roper, Geo. D., Corporation, Rockford, Ill. Gas ranges, gas plates, gas heaters, etc. 160,276; renewed Oct. 17, 1942.
Ruskin, Mabel Cumbow, Abingdon, Va. Ceramic table and cooking ware, vases, jars, jugs, etc. 395,999; June 23; Serial No. 448,653; published Apr. 14, 1942. Class 30.
Russell, Bennett, Yakima, Wash. Canned fruits, dried prunes, etc. 395,986; June 23; Serial No. 445,531; published Apr. 14, 1942. Class 46.
Scher, Morris M., to M. M. Scher & Sons, Baltimore, Md., successor. Serge. 157,761; renewed Aug. 15, 1942.
Scholastic Corporation, New York, N. Y., Dayton, Ohio, and Pittsburgh, Pa. Periodical. 396,008; June 23; Serial No. 449,357; published Apr. 14, 1942. Class 38.
Sears, Roebuck and Co., Chicago, Ill. Kitchen cabinets. 396,053; June 23. Class 32.
Sheboygan Chair Company, Sheboygan, Wis. Children's high chairs. 396,028; June 23; Serial No. 450,605; published Apr. 14, 1942. Class 32.
Sherwood Refining Company, Inc. (See Pureline Company, Inc., assignor.)
Smart-Kurl Wave Company. (See Netsky, Joseph.)
Snively Groves, Inc., Winter Haven, Fla. Fresh citrus fruits. 396,035; June 23; Serial No. 451,192; published Apr. 14, 1942. Class 46.
Stafford, S. S., Inc., assignor, by mesne assignments, to S. S. Stafford, Inc., New York, N. Y. Furniture polish. 158,817–18; renewed Sept. 12, 1942.
Stag Publishing Corporation. (See Volltant Publishing Corporation, assignor.)
Stag Publishing Corporation, New York, N. Y. Magazine. 396,000; June 23; Serial No. 448,806; published Jan. 20, 1942. Class 38.
Stanco Incorporated. (See New Southern Drug Company, assignor.)
Standard Milling Company. (See Minkota Milling Company, assignor.)
Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J., and New York, N. Y., assignor to Standard Oil Company of New Jersey, Wilmington, Del. Oils and greases. 159,110; renewed Sept. 19, 1942.
Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Lubricating oils and greases. 395,979; June 23; Serial No. 442,880; published Mar. 31, 1942. Class 15.
Strawbridge & Clothier, Philadelphia, Pa. Men's, young men's, and boys' hats and caps. 161,311; renewed Nov. 7, 1942.
Studart & Cia, Rio de Janeiro, Brazil. Toilet cosmetic. 395,978; June 23; Serial No. 442,807; published Mar. 31, 1942. Class 6.
Supervision Publishing Company, Inc., New York, N. Y. Periodic publication. 396,030; June 23; Serial No. 450,841; published Apr. 14, 1942. Class 38.
Textolite Corporation, The, Newark, N. J. Real leather, leather suede, and rubber sheet material. 396,006; June 23; Serial No. 449,331; published Apr. 14, 1942. Class 1.
Timber Engineering Company, Washington, D. C. Metal connectors. 395,997; June 23; Serial No. 448,591; published Apr. 14, 1942. Class 13.
Torrington Company, The, assignor to The Torrington Company, Torrington, Conn. Spokes and nipples for vehicle wheels. 160,693; renewed Oct. 24, 1942.
Truscon Laboratories, Inc., Detroit, Mich. Publication. 396,050; June 23. Class 38.
United Advertising Companies, Inc., doing business as The Pen Man, Chicago, Ill. Fountain pens. 396,047; June 23. Class 37.
United Precision Products Co., Chicago, Ill. Plug gauges and parts therefor. 396,022; June 23; Serial No. 450,217; published Apr. 14, 1942. Class 26.
United Press Associations, New York, N. Y. Publication. 396,026; June 23; Serial No. 450,383; published Apr. 14, 1942. Class 38.
United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass., to United Shoe Machinery Corporation, Flemington, N. J., and Boston, Mass. Machines and parts thereof and tools. 158,129; renewed Aug. 22, 1942.
Van Wolf, A. F., doing business as Kedmont Manufacturing & Waterproofing Co., Chicago, Ill. Material to be added to a concrete mix. 395,995; June 23; Serial No. 448,020; published Mar. 31, 1942. Class 12.
Veeder-Root Incorporated, Hartford, Conn. Registering or counting mechanisms. 395,974; June 23; Serial No. 427,217; published Apr. 14, 1942. Class 26.
Ventura Pacific Co., Montalvo, Cal. Fresh citrus fruits. 396,005; June 23; Serial No. 449,307; published Apr. 14, 1942. Class 46.
Vilter Manufacturing Company, The, Milwaukee, Wis. Refrigerating machines, ice-making and ice-briquetting machines, ice disintegrators, etc. 396,054; June 23. Class 31.
Volltant Publishing Corporation, assignor to Stag Publishing Corporation, New York, N. Y. Magazine publication. 396,002; June 23; Serial No. 449,196; published Jan. 20, 1942. Class 38.
Walker Stetson Company, Boston, Mass. Hair nets. 158,849; renewed Sept. 12, 1942.
Walter, Clarence L., doing business as Press-Stencil Co., St. Louis, Mo. Equipment for making stencils. 396,040; June 23. Class 26.
Winthrop Chemical Company. (See Metz, H. A., Laboratories, Inc.)
Woodin, Virginia, Arlington, Va. Dolls. 395,998; June 23; Serial No. 448,595; published Apr. 14, 1942. Class 22.
Yorba Linda Citrus Association, The, Yorba Linda, Calif. Fresh citrus fruits. 395,988–9; June 23; Serial Nos. 446,344–5; published Apr. 14, 1942. Class 46.
York Oil Burner Co., Inc., York, Pa. Fuel burning air conditioning units. 396,036; June 23; Serial No. 451,278; published Apr. 14, 1942. Class 42.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Charcoal. Pacific By-Products Co. 159,978; renewed Oct. 10, 1942.
Coals. Hedstrom-Schenck Coal Co. 159,898; renewed Oct. 10, 1942.
Fur resulting from the chemical treatment of fur skins and thereafter cut from the skin. Non-Mercuric Carrot Company. 395,993; June 23; Serial No. 447,312; published Apr. 14, 1942.
Leather. William Graham. 160,509; renewed Oct. 24, 1942.
Leather, leather suede, and rubber sheet material, Real. Textolite Corporation. 396,006; June 23; Serial No. 449,331; published Apr. 14, 1942.
Wax, Vegetable. Avon Trading Corporation. 396,048; June 23.

CLASS 2

Pails, drums, and cheese boxes and containers. Container Company. 158,643; renewed Sept. 12, 1942.

CLASS 4

Cleaner and spot remover for fabrics and gabardine cleaner, Liquid. Osmic Chemical Company. 395,975; June 23; Serial No. 431,739; published Apr. 14, 1942.
Discs, wheels, tablets, etc. Weldon Roberts Rubber Co. 396,051; June 23.
Saponaceous material. M. H. Jacobs. 396,046; June 23.

CLASS 6

Chemical, medicinal, and pharaceutical preparations. Parke, Davis & Company. 156,384; renewed June 20, 1942.
Chemical preparation. New Southern Drug Company. 155,782; renewed June 6, 1942.
Chemicals and preparations and compounds thereof. General Aniline & Film Corporation. 395,983; June 23; Serial No. 444,699; published Aug. 26, 1941.
Cosmetic, Toilet. Studart & Cia, Rio de Janeiro, Brazil. 395,978; June 23; Serial No. 442,807; published Mar. 31, 1942.
Counterirritants. Parke, Davis & Company. 160,939; renewed Oct. 31, 1942.
Flux, Fluid soldering. American Chemical Paint Company. 157,301; renewed Aug. 1, 1942.
Germicides and antiseptics. Parke, Davis & Company. 158,277; renewed Aug. 29, 1942.
Germicides and antiseptics. Parke, Davis & Company. 157,369; renewed Aug. 1, 1942.
Insecticides. Hooker Electrochemical Company. 160,882–3; renewed Oct. 31, 1942.
Medicinal and toilet preparations. Pureline Company. 160,945; renewed Oct. 31, 1942.
Medicine. Parke, Davis & Company. 161,254; renewed Nov. 7, 1942.

Medicines. Koenig Medicine Company. 21,103; re-renewed May 10, 1942.
Powder, perfumes, toilet water, etc. A. Bourjois & Co. Inc. 161,077; renewed Nov. 7, 1942.
Remedy. H. A. Metz Laboratories, Inc. 161,232; renewed Nov. 7, 1942.
Washing-blue. Patrick Diamond. 21,903; re-renewed Nov. 1, 1942.

CLASS 9

Dynamite. E. I. du Pont de Nemours and Company. 155,408; renewed May 30, 1942.

CLASS 11

Carbon black for use as an ink pigment. Columbian Carbon Company. 396,018; June 23; Serial No. 449,893; published Mar. 10, 1942.
Carbon pigment used in carbon paper, and typewriter ribbon industries, Black. Peerless Carbon Black Company. 395,977; June 23; Serial No. 441,485; published Apr. 29, 1941.

CLASS 12

Cement, Fire-brick. A. P. Green Fire Brick Company. 160,512; renewed Oct. 24, 1942.
Material to be added to a concrete mix. A. F. Van Wolf. 395,995; June 23; Serial No. 448,020; published Mar. 31, 1942.
Mill work and allied products. Houston Sash & Door Company. 395,990; June 23; Serial No. 446,457; published Mar. 31, 1942.

CLASS 13

Connectors, Metal. Timber Engineering Company. 395,997; June 23; Serial No. 448,591; published Apr. 14, 1942.
Traps, cess pools, basin traps, and floor drains, Grease. D. J. Murray Manufacturing Co. 396,009; June 23; Serial No. 449,381; published Apr. 14, 1942.

CLASS 15

Gasoline. Atlantic Refining Company. 396,001; June 23; Serial No. 448,886; published Mar. 31, 1942.
Gasoline, and furnace and fuel oils. Atlantic Refining Company. 395,991; June 23; Serial No. 446,646; published Mar. 31, 1942.
Oils and greases. Standard Oil Company (incorporated in New Jersey). 159,110; renewed Sept. 19, 1942.
Oils and greases, Lubricating. Standard Oil Company of California. 395,979; June 23; Serial No. 442,880; published Mar. 31, 1942.

CLASS 16

Polish, Automobile and furniture. L. G. Pilgrim. 159,476; renewed Sept. 26, 1942.
Polish, Furniture. S. S. Stafford, Inc. 158,817–18; renewed Sept. 12, 1942.

CLASS 17

Tobacco. Excelsior Tobacco Co. 160,468; renewed Oct. 24, 1942.

CLASS 19

Spokes and nipples for vehicle wheels. Torrington Company. 160,693; renewed Oct. 24, 1942.

CLASS 21

Spark plugs and parts thereof. Champion Spark Plug Company. 158,402; renewed Sept. 5, 1942.

CLASS 22

Dolls. V. Woodin. 395,998; June 23; Serial No. 448,595; published Apr. 14, 1942.
Dolls and toy animals. Geo. Brofgeldt Corporation. 396,029; June 23; Serial No. 450,825; published Apr. 14, 1942.

CLASS 23

Machines and parts thereof and tools. United Shoe Machinery Corporation. 158,129; renewed Aug. 22, 1942.

CLASS 26

Equipment for making stencils. C. L. Walter. 396,040; June 23.
Gauges and parts therefor, Plug. United Precision Products Co. 396,022; June 23; Serial No. 450,217; published Apr. 14, 1942.
Lenses and blanks for making the same, Eye protection. American Optical Company. 395,984; June 23; Serial No. 444,959; published Apr. 14, 1942.
Motion picture projection apparatus. Mills Novelty Company. 396,025; June 23; Serial No. 450,371; published Apr. 14, 1942.

CLASS 27

Watches, clocks and parts thereof. Harman Watch Co. Inc. 396,060; June 23.

CLASS 29

Brushes, Artists'. M. Grumbacher. 158,687–94; renewed Sept. 12, 1942.
Brushes, Artists'. M. Grumbacher. 159,363; renewed Sept. 26, 1942.
Brushes, Shaving. American Safety Razor Corporation. 395,987; June 23; Serial No. 445,678; published Mar. 31, 1942.
Toothbrushes. Ledogar, Humphreys Company. 396,023; June 23; Serial No. 450,281; published Mar. 31, 1942.

CLASS 30

Ceramic dinnerware. Promotions, Inc. 396,045; June 23.
Ceramic table and cooking ware, vases, jars, jugs, etc. M. C. Ruskin. 395,999; June 23; Serial No. 448,653; published Apr. 14, 1942.

CLASS 31

Refrigerating machines, ice-making and ice-briquetting machines, ice disintegrators, etc. Vilter Manufacturing Company. 396,054; June 23.

CLASS 32

Cabinets, Kitchen. Sears, Roebuck and Co. 396,053; June 23.
Chairs, Children's high. Sheboygan Chair Company. 396,028; June 23; Serial No. 450,605; published Apr. 14, 1942.
Pillows. Burton-Dixie Corporation. 396,049; June 23.

CLASS 33

Rods, tubing, and containers, Glass. Kimble Glass Company. 396,024; June 23; Serial No. 450,361; published Apr. 14, 1942.

CLASS 34

Air conditioning units, Fuel burning. York Oil Burner Co. 396,036; June 23; Serial No. 451,278; published Apr. 14, 1942.
Heaters, blast coils, humidifiers, etc., Unit. D. J. Murray Manufacturing Co. 396,010; June 23; Serial No. 449,383; published Apr. 14, 1942.
Ranges, gas plates, gas heaters, etc., Gas. Geo. D. Roper Corporation. 160,276; renewed Oct. 17, 1942.

CLASS 35

Tires, Vehicle. Goodyear Tire & Rubber Company. 159,885; renewed Oct. 10, 1942.

CLASS 36

Phonographs, phonograph records, phonograph record players, etc. Fred Gretsch Manufacturing Co. 396,021; June 23; Serial No. 450,068; published Apr. 14, 1942.

CLASS 37

Binders, blank books, clip boards, etc. Rockwell-Barnes Company. 158,076; renewed Aug. 22, 1942.
Paper, Writing and printing. American Writing Paper Corporation. 396,041; June 23.
Pens, Fountain. United Advertising Companies. 396,047; June 23.
Staples. Metal Specialties Manufacturing Co. 395,994; June 23; Serial No. 447,751; published Apr. 14, 1942.

CLASS 38

Books. A. Lewis. 395,976; June 23; Serial No. 439,517; published Apr. 14, 1942.
Calendars. American Calendar Company. 155,191; renewed May 23, 1942.
Cards, Greeting. Norcross. 396,033; June 23; Serial No. 451,015; published Apr. 7, 1942.
Comic strip. Baers. 396,004; June 23; Serial No. 449,248; published Apr. 7, 1942.
Comic strip. Baers. 396,012; June 23; Serial No. 449,512; published Apr. 7, 1942.
Directory. Haire Publishing Company. 396,055; June 23.
Magazine. L. D. Post. 396,042; June 23.
Magazine. Star Publishing Corporation. 396,000; June 23; Serial No. 448,806; published Jan. 20, 1942.
Magazine publication. Volltant Publishing Corporation. 396,002; June 23; Serial No. 449,196; published Jan. 20, 1942.
Newspaper column. B. A. Lynch. 396,032; June 23; Serial No. 450,983; published Apr. 7, 1942.
Periodical. Farrell Publishing Corporation. 395,973; June 23; Serial No. 423,527; published Nov. 7, 1939.
Periodical. Scholastic Corporation. 396,008; June 23; Serial No. 449,357; published Apr. 14, 1942.
Periodical, Department of a. C. W. Brooks. 396,015; June 23; Serial No. 449,720; published Apr. 14, 1942.
Publication. National Exchange Club. 159,045; renewed Sept. 19, 1942.
Publication. Truscon Laboratories, Inc. 396,050; June 23.
Publication. United Press Associations. 396,026; June 23; Serial No. 450,383; published Apr. 14, 1942.
Publication, Periodical. Mechanite Research Institute of America, Inc. 396,031; June 23; Serial No. 450,973; published Apr. 14, 1942.
Publication, Periodic. Supervision Publishing Company. 396,030; June 23; Serial No. 450,841; published Apr. 14, 1942.

CLASS 39

Boots and shoes. E. J. Bliss. 161,068; renewed Nov. 7, 1942.
Corsets and brassières. American Lady Corset Company. 154,362; renewed May 16, 1942.
Hair nets. Walker Stetson Company. 158,849; renewed Sept. 12, 1942.
Hats and caps, Men's, young mean's, and boys'. Strawbridge & Clothier. 161,311; renewed Nov. 7, 1942.
Hosiery. J. H. Blaets. 161,067; renewed Nov. 7, 1942.
Hosiery. Golden Belt Manufacturing Company. 161,144; renewed Nov. 7, 1942.
Hosiery. M. Pensak. 161,258; renewed Nov. 7, 1942.
Robes. M. Auerbach. 160,133; renewed Oct. 17, 1942.
Suits, and overcoats, Men's, boys', and children's. Hyde Park Clothes, Inc. 396,052; June 23.

CLASS 42

Curtains, Window. Bartmann & Bixer Inc. 396,038; June 23.
Gabardine piece goods. Reeves Brothers, Inc. 396,019; June 23; Serial No. 449,919; published Mar. 31, 1942.
Net fabrics and lace fabrics, Elastic. Lace-Net Importing Co. Inc. 396,058; June 23.
Piece goods of cotton, wool, etc. Day's Tailor-D Clothing, Inc. 396,013; June 23; Serial No. 449,545; published Mar. 31, 1942.
Poplin cloth. Reeves Brothers, Inc. 396,020; June 23; Serial No. 449,920; published Mar. 31, 1942.
Serge. Morris M. Scher. 157,761; renewed Aug. 15, 1942.
Wool, rayon, cotton and silk piece goods. Anglo Fabrics, Inc. 396,059; June 23.
Woolen piece goods. Neponset Woolen Mills, Incorporated. 396,003; June 23; Serial No. 449,239; published Mar. 31, 1942.
Worsted fabrics and suitings. Collins & Aikman Corporation. 396,027; June 23; Serial No. 450,446; published Mar. 31, 1942.

CLASS 43

Threads and yarns. A. H. Rice Company. 157,187; renewed July 25, 1942.
Threads, Cotton. Bay State Thread Works. 159,804; renewed Oct. 10, 1942.

CLASS 44

Manicure kits. H. C. Bates. 395,996; June 23; Serial No. 448,490; published Apr. 14, 1942.
Otoscopes. Bausch & Lomb Optical Company. 395,985; June 23; Serial No. 445,035; published Apr. 14, 1942.
Pads, Permanent waving. J. Nefsky. 396,037; June 23.

CLASS 46

Buttermilk tablets. Parke, Davis & Company. 158,514; renewed Sept. 5, 1942.
Canned chicken soup. W. G. McCullough. 396,056; June 23.
Canned fish. Benicia Fisheries. 396,044; June 23.
Canned fruits. Mor-Pak Preserving Corporation. 396,016; June 23; Serial No. 449,726; published Apr. 14, 1942.
Canned fruits. H. G. Prince & Co. 156,913; renewed July 18, 1942.
Canned fruits, dried prunes, etc. B. Russell. 395,986; June 23; Serial No. 445,531; published Apr. 14, 1942.
Canned peaches. California Packing Corporation. 158,627; renewed Sept. 12, 1942.
Chili. A. A. Feraud. 396,043; June 23.
Chili con carne and tamales. O. T. Hodge. 396,057; June 23.
Dairy products. Cooperativa Nacional De Productores De Leche. 396,014; June 23; Serial No. 449,640; published Apr. 7, 1942.
Eggs, egg yolk, and egg albumen, Dehydrated. Joe Lowe Co. 159,934; renewed Oct. 10, 1942.
Feeds for poultry. Central Chemical Corporation of Maryland. 395,992; June 23; Serial No. 446,862; published Apr. 14, 1942.
Food products, Prepared. Pacific Olive Company. 396,011; June 23; Serial No. 449,431; published Apr. 14, 1942.
Fruits, Fresh citrus. Snively Groves, Inc. 396,035; June 23; Serial No. 451,192; published Apr. 14, 1942.
Fruits, Fresh citrus. Ventura Pacific Co. 396,005; June 23; Serial No. 449,307; published Apr. 14, 1942.
Fruits, Fresh citrus. Yorba Linda Citrus Association, The. 395,988–9; June 23; Serial Nos. 446,344–5; published Apr. 14, 1942.
Ice cream and frozen confections. Hershey Creamery Company. 396,034; June 23; Serial No. 451,175; published Apr. 14, 1942.
Powders or fillers. Joe Lowe Co. Inc. 159,419; renewed Sept. 26, 1942.
Preparations for coagulating or curdling milk. Chr. Hansen's Laboratory, Inc. 156,854; renewed July 18, 1942.
Salad dressing. W. E. Bothe. 396,039; June 23.
Wheat-flour. Minkota Milling Company. 21,940; renewed Nov. 8, 1942.
Yeast culture that is mixed with live stock and poultry feeds before use. Mid-Continental Laboratories. 395,981; June 23; Serial No. 443,664; published Apr. 14, 1942.

CLASS 47

Wines. A. Florio & Compañia. 395,980; June 23; Serial No. 443,122; published Mar. 31, 1942.

CLASS 50

Linoleum blocks to be used as printing plates. Milton Bradley Company. 396,017; June 23; Serial No. 449,888; published Apr. 14, 1942.
Plastic material, Hardened. Catalin Corporation. 395,982; June 23; Serial No. 444,325; published Apr. 14, 1942.
Poultry equipment. James Manufacturing Company. 396,007; June 23; Serial No. 449,345; published Apr. 14, 1942.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 23D DAY OF JUNE, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Edgerton, Harold E., Belmont, Mass. Cutting machine. Re. 22,123; June 23.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Urea resins and acid treatment thereof. Re. 22,124; June 23.
Ellis-Foster Company. (See Ellis, Carleton, assignor.)
Floss, Carl W., Detroit, Mich. Automatic honing mechanism and control means therefor. Re. 22,125; June 23.

LIST OF DESIGN PATENTEES

Allo, Natalie A., Escanaba, Mich. Radio cabinet. 132,849; June 23.
Auslander, Henry, Brooklyn, N. Y. Pulley block. 132,848; June 23.
Blume, Samuel J., Brooklyn, N. Y. Novelty pin. 132,839; June 23.
Blume, Samuel J., Brooklyn, N. Y. Novelty pin. 132,840; June 23.
Blume, Samuel J., Brooklyn, N. Y. Novelty pin. 132,841; June 23.
Carpenter, Herbert W. (See Drollinger, Kyle M., assignor.)
Cherniak, Meyer B., New York, N. Y. Air sterilizing lamp fixture or the like. 132,872; June 23.
Cissell, William M., St. Mathews, near Louisville, Ky. Pressing iron stand. 132,850; June 23.
Cooper, Carla B., Los Angeles, Calif. Hairpin tray or the like. 132,851; June 23.
Darrish, Morris E., St. Louis, Mo. Embroidered textile fabric or like article. 132,866; June 23.
Dictaphone Corporation. (See O'Neil, William J., assignor.)
Drollinger, Kyle M., assignor to H. W. Carpenter, Wichita Falls, Tex. Sound reproducer or the like. 132,865; June 23.
Fassin, Gustave, Ann Arbor, Mich. Projector. 132,852; June 23.
Foster, James M., Memphis, Tenn. Open web trailer frame. 132,853; June 23.
Goehle, Earl G., Huntington Woods, Mich. Angle dresser for abrading elements. 132,842; June 23.
Goehle, Earl G., Huntington Woods, Mich. Angle dresser for abrading elements. 132,843; June 23.
Goehle, Earl G., Huntington Woods, Mich. Angle dresser for abrading elements. 132,844; June 23.
Haas, Carl F. (See Winkler, F. C., and Haas.)
Mansen, Bertha J., Rutherford, N. J. Brooch. 132,845; June 23.
Harer, Otto H., Painesville, Ohio. Memorial grave marker. 132,854; June 23.
Harer, Otto H., Painesville, Ohio. Memorial grave marker. 132,855; June 23.
Heintz, Ralph M., Cleveland, assignor to Jack & Heintz, Inc., Bedford, Ohio. Engine starter. 132,856; June 23.
Hygrade Sylvania Corporation. (See Miller, Carl F., assignor.)
Jack & Heintz, Inc. (See Heintz, Ralph M., assignor.)
Libbey Glass Company. (See Sawyer, Charles W., assignor.)
Linenfelser, Robert W., Monroe, Mich. Slicer. 132,857; June 23.
McQuhae, Adamina, Toronto, Ontario, Canada. Doll. 132,873; June 23.
Miller, Carl F., Austin, Pa., assignor to Higrade Sylvania Corporation, Salem, Mass. Stem base for an electron tube or similar article. 132,858; June 23.
Morton, George E., Los Angeles, Calif. Telephone reminder. 132,862; June 23.
O'Neil, William J., Atlantic Beach, assignor to Dictaphone Corporation, New York, N. Y. Combined microphone and hand control device for a phonograph. 132,863; June 23.
Parsons, Philip D., Swarthmore, assignor to Scott Paper Company, Chester, Pa. Wall cabinet. 132,846; June 23.
Rice, Irving W., New York, N. Y. Hand mirror. 132,864; June 23.
Rinehart, Creed W., Dayton, Ohio. Poster or similar article. 132,847; June 23.
Sawyer, Charles W., assignor to Libbey Glass Company, Toledo, Ohio. Ashtray. 132,867; June 23.
Sawyer, Charles W., assignor to Libbey Glass Company, Toledo, Ohio. Candlestick holder. 132,868; June 23.
Scott Paper Company. (See Parsons, Philip D., assignor.)
Shipley, Carl V., Chicago, Ill. Safety razor guard. 132,859; June 23.
Thee, Walter C., U. S. Army. Black-out unit for taillight lens. 132,870; June 23.
Thee, Walter C., U. S. Army. Black-out unit for a combination taillight, and service and stoplight lens. 132,871; June 23.
Volf, Christian A., Van Nuys, Calif. Combined hearing aid amplifier and battery casing. 132,860; June 23.
Walker, Richard F., Jr., New York, N. Y. Badge. 132,861; June 23.
Westinghouse Electric & Manufacturing Company. (See Winkler, F. C., and Haas, assignors.)
Winkler, Frederic C., Lakewood, and C. F. Haas, Cleveland, Ohio, assignors to Westinghouse Electric & Manufacturing Company. Fluorescent luminaire. 132,869; June 23.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 23D DAY OF JUNE, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbott, Edward J., assignor to Abbott Machine Company, Wilton, N. H. Winding machine. 2,287,012; June 23.

Abbott, Edward J., assignor to Abbott Machine Company, Wilton, N. H. Builder motion. 2,287,013; June 23.

Abbott Machine Company. (See Abbott, Edward J., assignor.)

Abraham, Leonard G., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Volume range control in signal transmission systems. 2,287,077; June 23.

Adams, James W., Dallas, Tex., assignor to Oil Well Supply Company. Portable boiler flame chamber. 2,287,338; June 23.

Adams, William R., San Francisco, Calif. Dishwashing apparatus. 2,287,591; June 23.

Adamston Flat Glass Company. (See Rolland, E., and Richter, assignors.)

Adlake Company, The. (See Alm, Henry G., assignor.)

Adlake Company, The. (See Hedin, U. C., and Larson, assignors.)

Air Reduction Company. (See Bliss, Conrad De K., assignor.)

Air-Way Electric Appliance Corporation. (See Dow, D. M., Burmeister, and Heckler, assignors.)

Albin, Joseph S., Prosser, Wash. Sugar beet machine. 2,287,367; June 23.

Alden, Herbert W., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Hub construction. 2,287,009; June 23.

Alford, Andrew, assignor to Mackay Radio and Telegraph Company, New York, N. Y. Transmitting antenna. 2,287,220; June 23.

Allan, Edwin, Spencerport, N. Y. Apparatus for treating vegetables with hot water and steam. 2,287,014; June 23.

Allen, Earl M., Swissvale, and H. S. Young, Wilkinsburg, assignors to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,287,078; June 23.

Allis-Chalmers Manufacturing Company. (See Jansson, Gustav E., assignor.)

Allis-Chalmers Manufacturing Company. (See Journeaux, Didier, assignor.)

Allis-Chalmers Manufacturing Company. (See Lindsay, Horace W., assignor.)

Alm, Henry G., Elkhart, Ind., assignor to The Adlake Company. Lighting fixture. 2,287,221; June 23.

Altschule, Herman, Newark, assignor to Utility Electric Corp., East Newark, N. J. Multiple fuse. 2,287,010; June 23.

Aluminum Company of America. (See Miller, Mike A., assignor.)

Alvey-Ferguson Company, The. (See Roland, Robert J., assignor.)

Amberg, Stephen W. (See Amberg, Walter E., and S. W.)

Amberg, Walter E., Beverly Shores, Ind., and S. W. Amberg, assignors to Universal Paper Products Company, Chicago, Ill. Process and apparatus for manufacturing paper cups. 2,287,015; June 23.

Amco, Incorporated. (See Spencer, Howard F., assignor.)

American Armament Corporation. (See Joyce, Bryan P., assignor.)

American Brake Shoe and Foundry Company, The. (See Clark, John O'F., assignor.)

American Can Company. (See Bach, Nells P., assignor.)

American Cyanamid Company. (See Brookes, Alfred, assignor.)

American Locomotive Company. (See Nichols, William M., assignor.)

American Machine & Foundry Company. (See Naftali, Rudolf, V., and H., assignors.)

American Optical Company. (See Moulton, Harold R., assignor.)

American Ore Reduction Corporation. (See Hodson, F., and Hirsch, assignors.)

American Rolling Mill Company. (See Carpenter, Victor W., assignor.)

American Rolling Mill Company, The. (See Carpenter, V. W., and Jackson, assignors.)

American Rolling Mill Company, The. (See McCutcheon, K. C., and Hand, assignors.)

American Sales Book Company, Inc. (See Hageman, Louis F., assignor.)

American Warming and Ventilating Company, The. (See Merry, Fred D., assignor.)

American Well & Prospecting Company. (See Duda, Oswald, assignor.)

Amyot, Louis J. A., Quebec, Quebec, Canada. Foundation garment. 2,287,222; June 23.

Anderson, Barbara R., Los Angeles, Calif. Yarn holder. 2,287,368; June 23.

Anderson, Ben H., Manufacturing Co. (See Anderson, Benjamin H., assignor.)

Anderson, Benjamin H., assignor to Ben H. Anderson Manufacturing Co., Madison, Wis. Milking machine. 2,287,506; June 23.

Anderson Box Company. (See Nolte, Wilfred C., assignor.)

Anderson, Swan F., Rockford, Ill. Pump. 2,287,369; June 23.

Anderson, Thomas F., assignor to The Sanymetal Products Co., Inc., Cleveland, Ohio. Cubicle assembly. 2,287,079; June 23.

Anderson, Walter A., Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Paper feeding mechanism for accounting machines. 2,287,405; June 23.

Anderson, William R., Chicago, Ill. Barrel assembling machine. 2,287,658; June 23.

Andrews, L. V., assignor to Riley Stoker Corporation, Worcester, Mass. Steam purifying apparatus. 2,287,592; June 23.

Angelica Jacket Company. (See Levy, V. A., and Donahue, assignors.)

Anthracite Separator Company. (See Pardee, Frank, assignor.)

Antonietta, Stephen, Port Richmond, Staten Island, N. Y. Slide fastener machine. 2,287,507; June 23.

Appleton Electric Company. (See Tornblom, Nils A., assignor.)

Armour & Company. (See Ralston, A. W., and Segebrecht, assignors.)

Armour and Company. (See Young, H. P., Jr., and Christensen, assignors.)

Armstrong Cork Company. (See Powers, Paul O., assignor.)

Arndt, Franklin E., Galion, Ohio, assignor to The Galion Iron Works & Manufacturing Company. Spreader. 2,287,080; June 23.

Artkraft Sign Company, The. (See Bowsher, Clinton, assignor.)

Associated Electric Laboratories, Inc. (See Lomax, Clarence E., assignor.)

Atkinson, Raymond F. (See Colle, J. J., and Atkinson.)

Atlantic Refining Company, The. (See Ferris, Seymour W., assignor.)

Atlantic Refining Company, The. (See Hershberger, Arthur B., assignor.)

Atlas Press Company. (See Musselman, Henry E., assignor.)

Atlas Supply Company. (See Babb, Michael, assignor.)

Attwell, P. Bobbin, assignor to I. F. Laucks, Inc., Seattle, Wash. Structural element. 2,287,081; June 23.

Atwood Vacuum Machine Company, The. (See Miller, Kay, assignor.)

Aull, Wilson, Jr., Flushing, N. Y. Electrical communication. 2,287,160; June 23.

Autogas Company. (See Furlong, F. A. and Penfold, assignors.)

Automatic Turbine Drive Company. (See Popper, Isaac C., assignor.)

B. and F. Corporation. (See Bernstein, Samuel S., assignor.)

Babb, Loyal R. (See Walker, V. S., and Babb.)

Bach, Nells P., Geneva, N. Y., assignor to American Can Company, New York, N. Y. Can closing machine. 2,287,016; June 23.

Bailey, Ralph H. (See Corkery, F. W., and Bailey.)

Bair, Robert R. (See Wernlund, C. J., Benner, and Bair.)

Baird, Clyde W., Columbus, Ohio, assignor, by mesne assignments, to The Traylor Vibrator Company. Vibrating apparatus control. 2,287,223; June 23.

Baird, Clyde W., Columbus, Ohio, assignor to The Traylor Vibrator Company. Vibration control apparatus. 2,287,406; June 23.

Baker, David B., and R. E. Peterson, Riverside, Ill., assignors to International Harvester Company. Fuel pump. 2,287,407; June 23.

Balcunas, Alfred C., Dorchester, Mass. Compound dispenser for washing machines. 2,287,339; June 23.

Baldwin, Millard W., Jr., Glen Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Modulating and compensating apparatus. 2,287,408; June 23.

Balisteri, Joseph F., Dallas, Tex. Parking meter. 2,287,547; June 23.

Ball & Ball Carburetor Company. (See Ball, Thomas M., assignor.)

Ball, Robert W., Avondale, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coated cellulosic products and producing the same. 2,287,161; June 23.

Ball, Thomas M., assignor to Ball & Ball Carburetor Company, Detroit, Mich. Carburetor. 2,287,593; June 23.

Barbagelata, Angelo, Matawan, N. J. Tellurian. 2,287,594; June 23.

Barber-Colman Company. (See Lilja, Edgar D., assignor.)

Bardwell & McAlister, Inc. (See Erickson, Carl R., assignor.)

Bardwell & McAlister, Inc. (See Rose, Jess C., assignor.)

Barkelj, Jean A. H., Altadena, Calif. Internal combustion engine. 2,287,224; June 23.

Barnes Drill Co. (See Caldwell, Harry J., assignor.)

Barnes, Merritt W., Syracuse, N. Y. Napkin holder. 2,287,717; June 23.

Barnhardt, Inc. (See Mayfield, Harry F., assignor.)

Barnum, Randolph, et al. (See Hayter, Richard B., assignor.)

Barth, Gustav, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany. Power amplifier. 2,287,754; June 23.

Barth, Gustav, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany. Power amplifier. 2,287,755; June 23.

Battelstein, Ben. (See Livingston, Jay K., assignor.)

Bauer, Karl, Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to Chemical Marketing Company Inc., New York, N. Y. Production of iron powders. 2,287,082; June 23.

Beanblossom, Joy F., assignor to Hooker Electrochemical Company, Niagara Falls, N. Y. Production of carbon tetrachloride. 2,287,225; June 23.

Beanblossom, Walter S. (See Osborne, S. G., Lowry, and Beanblossom.)

Beasley, Harold H., Ashton Gate, Bristol, England. Apparatus for gumming the flaps of envelopes or bags. 2,287,718; June 23.

Beasley, Harold H., Ashton Gate, Bristol, England. Arranging and feeding envelopes or bags for gumming the flaps. 2,287,719; June 23.

Beasley, Harold H., Ashton Gate, Bristol, England. Gluing or gumming articles. 2,287,720; June 23.

Beaver, Alexander G. (See Wilson, I. H., and Beaver.)

Beazley, Howard, Marshall, Mo. Buckle. 2,287,721; June 23.

Beazley, Howard, Marshall, Mo. Buckle. 2,287,722; June 23.

Becker, John G., San Angelo, Tex. Roof framing support. 2,287,370; June 23.

Beckett, Geginald W., Elyria, Ohio. Blower unit for oil burners. 2,287,462; June 23.

Becket, Reginald W., Elyria, Ohio. Apparatus for controlling air flow. 2,287,595; June 23.

Beebe, Leslie W., Oak Park, Ill. Foot operated water control. 2,287,011; June 23.

Behrman, Abraham Sidney, assignor to Infilco, Inc., Chicago, Ill. Apparatus and method for treating water. 2,287,284; June 23.

Bell, Joseph D., San Francisco, Calif. Chair bed. 2,287,596; June 23.

Bell Telephone Laboratories, Incorporated. (See Abraham, Leonard G., assignor.)

Bell Telephone Laboratories, Incorporated. (See Baldwin, Millard W. Jr., assignor.)

Bell Telephone Laboratories. (See Bishop, Walter M., assignor.)

Bell Telephone Laboratories, Incorporated. (See Bruce, E., and Herriott, assignors.)

Bell Telephone Laboratories, Incorporated. (See Egerton, Lawson, assignor.)

Bell Telephone Laboratories, Incorporated. (See Ganz, Albert G., assignor.)

Bell Telephone Laboratories, Incorporated. (See Hebert, C. A., and Wier, assignors.)

Bell Telephone Laboratories, Incorporated. (See Heising, Raymond A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Hoyt, Frederick A., assignor.)

Bell Telephone Laboratories, Incorporated. See Kannenberg, Walter F., assignor.)

Bell Telephone Laboratories, Incorporated. (See Phillips, George M., assignor.)

Bell Telephone Laboratories, Incorporated. (See Willard, Gerald W., assignor.)

Bendix Aviation Corporation. (See Brian, Joseph M., assignor.)

Bendix Aviation Corporation. (See Buxton, James E., assignor.)

Bendix Aviation Corporation. (See Frank, Frederick C., assignor.)

Bendix Aviation Corporation. (See Goepfrich, Rudolph A., assignor.)

Bendix Aviation Corporation. (See Price, H. W., and Price, assignors.)

Bendix Aviation Corporation. (See Robertson, Edwin A., assignor.)

Benefiel, Edward N., Warren, Ohio, assignor of one-half to W. Pfouts, Pittsburgh, Pa. Plow. 2,287,017; June 23.

Benjamin Electric Mfg. Company. (See Phillips, Paul D., assignor.)

Benner, Harry L. (See Wernlund, C. J., Benner, and Bair, assignors.)

Bennett, Claude. E, South Bend, Ind., assignor to A. E. Feragen, Inc., Seattle, Wash. Apparatus for testing motorcycles. 2,287,084; June 23.

Bennett, Preston T. (See Platts, R. N., Slichter, O'Donnell, and Bennett.)

Bennett, Wallis R., assignor to The Dow Chemical Company, Midland, Mich. Preparation of potassium thiocarbonate. 2,287,285; June 23.

Berger, Herbert R., Brooklyn, assignor to J. F. Jelenko & Co. Inc., New York, N. Y. Dental casting machine. 2,287,508; June 23.

Berger, Herbert R., Brooklyn, assignor to J. F. Jelenko & Co. Inc., New York, N. Y. Dental casting machine. 2,287,509; June 23.

Bernstein, Samuel S., Los Angeles, Calif., assignor to B. and F. Corporation. Securing means. 2,287,220; June 23.

Berriman, Edward W., Tampa, Fla. Mold for use in manufacturing cigars. 2,287,083; June 23.

Bethlehem Steel Company. (See Burkhardt, J. E., and Fox, assignors.)

Bethlehem Steel Company. (See Comstock, George S., Jr., assignor.)

Blawitz, Samuel, Flushing, N. Y. Leather goods edge pressing device. 2,287,409; June 23.

Blinda, Frederick J., Boston, Mass., assignor, by mesne assignments, to Polaroid Corporation, Dover, Del. Manufacturing glass-coated plastic material. 2,287,546; June 23.

Bindner, Charles M., Normandy, assignor to Dixie Machinery Mfg. Co., St. Louis, Mo. Mill. 2,287,659; June 23.

Bing, Julius, and O. Block, Berlin, Germany, assignors to K. O. Goettsch, Silvaho, Bern, Switzerland. Magnetic chuck. 2,287,286; June 23.

Binkley, Jacob F., Winston-Salem, N. C. Loop drawing means for fabric looping machines. 2,287,660; June 23.

Bird & Son, Inc. (See Walker, Bernard J., assignor.)

Bishop, Walter M., Flushing, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Seal and joint for deep-sea cables. 2,287,163; June 23.

Blake Manufacturing Corporation. (See Wood, Orville T., assignor.)

Blakesley, George R., and F. H. Haas, West Los Angeles, Calif. Heated toilet seat. 2,287,371; June 23.

Blaw-Knox Limited. (See Conacher, James E., assignor.)

Bliss, Conrad De K., Englewood, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Flash protection device. 2,287,162; June 23.

Block, Otto. (See Bing, J., and Block.)

Blodgett, Herbert C., assignor to Overhead Door Corporation, Hartford City, Ind. Removable post for vertically acting doors. 2,287,372; June 23.

Blue, Archie H., assignor of one-fourth to R. D. Wood and two-twentieths to H. P. Bridge, Christchurch, New Zealand. Electrical recording device. 2,287,463; June 23.

Blumenthal, Maurice, Brooklyn, N. Y., deceased, M. Blumenthal, administratrix. Metal sheet piling. 2,287,018; June 23.

Blumenthal, Miriam, administratrix. (See Blumenthal, Maurice.)

Bock, Louis H., Glenside, assignor to Röhm & Haas Company, Philadelphia, Pa. Preparation of aminomethyl ethers. 2,287,464; June 23.

Bock, Louis H., Glenside, assignor to Röhm & Haas Company, Philadelphia, Pa. Aminomethyl ethers of ether alcohols. 2,287,465; June 23.

Boller, Ernest R., Twinsburg Township, Summit County, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Adhesive. 2,287,410; June 23.

Boller, Ernest R., Twinsburg Township, Summit County, and R. F. Remler, Lakewood, Ohio, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Adhesive. 2,287,411; June 23.

Boltz, Fred S., Mansfield, Mass. Method and apparatus for making hinge joints. 2,287,287; June 23.

Bone, Herbert L., Forest Hills, and K. J. J. McGowan, Pittsburgh, assignors to The Union Switch & Signal Company, Swissvale, Pa. Cover securing means for casings. 2,287,661; June 23.

Bone, Herbert L., Forest Hills, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway braking apparatus. 2,287,662; June 23.

Bonsiakos, Michael N., San Francisco, Calif. Washing machine. 2,287,288; June 23.

Bour, Paul L. (See Busignies, H. G., Gallant, and Bour.)

Bourne, Roland B., West Hartford, assignor to The Maxim Silencer Company, Hartford, Conn. Silencer. 2,287,412; June 23.

Bowsher, Clinton, assignor to The Artkraft Sign Company, Lima, Ohio. Compound or alloy for coating welds. 2,287,227; June 23.

Bowsher, Edward A. H., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Electric signaling system. 2,287,164; June 23.

Boyd, Wilmer B., and F. L. Carpenter, Lincoln, Nebr. Compactor. 2,287,723; June 23.
Boyer, Raymond F. (See Matheson, L. A., and Boyer.)
Boyer, Raymond F. (See Matheson, L. A., Boyer, and Coleman.)
Bradford Penn Refining Corporation. (See Nevitt, Albert R., assignor.)
Brassert, Herman A., Rye, assignor to Minerals and Metals Corporation, New York, N. Y. Metal production. 2,287,663; June 23.
Brescka, Rudolph S., Cranford, E. J. Meagher, Westfield, and E. C. Rearick, Cranford, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Article testing apparatus. 2,287,664; June 23.
Brisn, Joseph M., Linthicum Heights, Md., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Temperature responsive device. 2,287,289; June 23.
Bridge, H. P., et al. (See Blue, Archie H., assignor.)
Bristow, Frank B., Mobile, Ala. Taillight for poles or the like. 2,287,019; June 23.
Britton, Edgar C., and R. P. Perkins, assignors to The Dow Chemical Company, Midland, Mich. Halogenating cyclohexane. 2,287,665; June 23.
Broden, John G. M., assignor to Kockums Mekaniska Verkstads Aktiebolag, Malmo, Sweden. Valve controlling apparatus. 2,287,548; June 23.
Broderick, Frank W. (See Sunderhauf, F. A., and Broderick.)
Brookes, Alfred, London, England, assignor, by mesne assignments, to American Cyanamid Company, New York, N. Y. Manufacture of melamine. 2,287,597; June 23.
Brookes, Alfred, London, England, assignor, by mesne assignments, to American Cyanamid Company, New York, N. Y. Condensation products of the urea-formaldehyde type. 2,287,756; June 23.
Browall, Carl H., Ada, Okla. Testing well tubing. 2,287,340; June 23.
Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Thread parting mechanism. 2,287,666; June 23.
Brown, Charles H., Baldwin, N. Y., assignor to Polaroid Corporation, Dover, Del. Manufacturing light-polarizing bodies. 2,287,598; June 23.
Brown, Floyd de L., New York, N. Y. Mobile unit. 2,287,290; June 23.
Brown, Harry A. B., Pittsburgh, Pa. Refrigerating system. 2,287,492; June 23.
Brown, Winfield B., Detroit, Mich. Awning fastener. 2,287,667; June 23.
Brownscombe, Philip J. (See Kende, G., and Brownscombe.)
Bruce, Edmond, Red Bank, and W. Herriott, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Facsimile system. 2,287,413; June 23.
Brull, Eugene C., Oak Park, Ill. Shaver. 2,287,020; June 23.
Brunk, Harold J., Chicago, Ill., assignor to The C. F. Pease Company. Machine for developing blueprints. 2,287,763; June 23.
Bruson, Herman A., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. Cyanoethylated arylaliphatic ketones. 2,287,510; June 23.
Buck, Richard S., Glastonbury, assignor to United Aircraft Corporation, East Hartford, Conn. Fuel supply system. 2,287,021; June 23.
Buckeye Incubator Company, The. (See Gedge, Charles F., assignor.)
Buckley, Arthur H., Chicago, Ill. Keyboard tape perforator. 2,287,291; June 23.
Buckley Music System, Inc. (See Henry, Earle G., assignor.)
Buckner, Arthur W., Houston, Tex. Cable clamp. 2,287,414; June 23.
Buckwalter, Tracy V., Massillon, assignor to The Timken Roller Bearing Company, Canton, Ohio. Locomotive crosshead. 2,287,165; June 23.
Budd Induction Heating, Inc. (See Somes, Howard E., assignor.)
Bugg, Kenly C., Farmington, Mo., assignor to The Rudolph Wurlitzer Company, North Tonawanda, N. Y. Coin control mechanism. 2,287,292; June 23.
Bulfer, August J., Berwin, and C. C. Gapen, Oak Park, Ill., assignors to Corn Products Refining Company, New York, N. Y. Production of dextrine from starch. 2,287,599; June 23.
Bulldog Electric Products Company. (See Frank, W. H., and Fisher, assignors.)
Bulldog Electric Products Company. (See Togesen, A. A., and Fisher, assignors.)
Burgroth Alarm Corporation. (See Rodth, Joseph R., assignor.)
Burk, Robert E., and E. C. Hughes, Cleveland Heights, assignors to The Standard Oil Company, Cleveland, Ohio. Catalyst. 2,287,022; June 23.
Burk, Robert E., and C. H. Whitacre, assignors to The Standard Oil Company, Cleveland, Ohio. Asphalt manufacture. 2,287,511; June 23.
Burkhardt, John E., Quincy, and B. Fox, Wollaston, Mass., assignors to Bethlehem Steel Company. Deaerator and feed heater. 2,287,600; June 23.
Burmeister, Frederick H. (See Dow, D. M., Burmeister, and Heckler.)
Burndy Engineering Company. (See Matthysse, Irving F., assignor.)
Burndy Engineering Company. (See Rogoff, Julian, assignor.)
Burnett, Carlos E., Maplewood, N. J., assignor to Radio Corporation of America. Cathode ray signal generator. 2,287,415; June 23.
Burns, William C., Santa Ana, Calif. Body-weight-distributing construction for shoes and the like. 2,287,341; June 23.
Bush, Milton T., Nashville, Tenn., assignor to Mallinckrodt Chemical Works, St. Louis, Mo. Antiseptic. 2,287,724; June 23.
Busignies, Henri G., L. C. Gallant, and P. L. Bour, Paris, France, assignors to International Standard Electric Corporation, New York, N. Y. Device for assisting navigation. 2,287,166; June 23.
Butler, Bernard J., assignor to Maui Pineapple Company, Ltd., Paia, Territory of Hawaii. Equalizing the color in pineapples. 2,287,668; June 23.
Butler, Thomas P., Jr., Salem, Mass. Making shoes. 2,287,342; June 23.
Buxbaum, Edwin C. (See Wuertz, A. J., Lee, and Buxbaum.)
Buxton, James E., Elmira Heights, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starter drive. 2,287,669; June 23.
Byles, M. Naquin. (See Michael, Maybelle M., assignor.)
Byron, Jackson Co. (See Hollander, Aladar, assignor.)
Caldwell, Harry J., assignor to Barnes Drill Co., Rockford, Ill. Honing machine. 2,287,085; June 23.
Callaghan, George H., Chicago, Ill. Scriber. 2,287,601; June 23.
Campbell, Edward, Detroit, Mich. Vacuum sweeper for automobiles. 2,287,602; June 23.
Campbell, James T., Highland Park, Mich. Printing frame. 2,287,228; June 23.
Canton, Allen A. (See Harrison, L. S., Canton, and Kay.)
Carlson, Axel S., New York, N. Y., assignor of one-half to H. A. Humason, New Canaan, Conn. Razor blade. 2,287,549; June 23.
Carnes, James J., U. S. Army. Brake. 2,287,023; June 23.
Carpenter, Frank L. (See Boyd, W. B., and Carpenter.)
Carpenter, Miles H., Merrick, assignor to Duramore Buildings, Inc., Brooklyn, N. Y. Building construction. 2,287,229; June 23.
Carpenter, Victor W., Franklin, assignor to The American Rolling Mill Company, Middletown, Ohio. Producing high permeability silicon steel. 2,287,466; June 23.
Carpenter, Victor W., Middletown, and J. M. Jackson, Franklin, assignors to The American Rolling Mill Company, Middletown, Ohio. Process of producing silicon steel. 2,287,467; June 23.
Carter, Philip S., Rocky Point, N. Y., assignor to Radio Corporation of America. Radio signaling. 2,287,550; June 23.
Cartlidge, Frank, assignor to Goodman Manufacturing Company, Chicago, Ill. Cutting and loading machine. 2,287,230; June 23.
Casellini, Ezio T., assignor to Hygrade Sylvania Corporation, Salem, Mass. Apparatus for coating fluorescent lamp tubing. 2,287,024; June 23.
Cass, Monte H., Los Angeles, Calif. Dress form for display stands. 2,287,086; June 23.
Cassell, Robert P., Jeannette, Pa., assignor to The Jeannette Glass Company. Glass pressing apparatus. 2,287,512; June 23.
Cathcard, Harry H. (See Cathcard, Murinda M. and H. H.)
Cathcard, Murinda M. and H. H., Independence, Mo. Paste spreader. 2,287,231; June 23.
Celanese Corporation of America. (See Loud, John P., assignor.)
Celanese Corporation of America. (See Olpin, H. C., and Wright, assignors.)
Celanese Corporation of America. (See Schneider, George, assignor.)
Centriline Corporation. (See Perkins, Albert G., assignor.)
Chadeloid Chemical Company. (See Murphy, Dean, assignor.)
Chemical Marketing Company Inc. (See Bauer, Karl, assignor.)
Chemical Marketing Company Inc. (See Schulz, Hermann, assignor.)
Chicago Rawhide Manufacturing Company. (See Vedovelli, Rudolph J., assignor.)
Chicago Roller Skate Company. (See Floten, Donald W., assignor.)
Chirelstein, Charles, Newark, N. J. Starter switch. 2,287,167; June 23.
Christensen, Carl W. (See Young, H. P., Jr., and Christensen.)
Christianson, Andrew, Hammond, Ind., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Vehicle diaphragm. 2,287,025; June 23.
Christianson, Andrew, Hammond, Inc., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Vehicle diaphragm. 2,287,757; June 23.
Chrysler Corporation. (See Dickson, J. B., and Voorhees, assignors.)

Chrysler Corporation. (See Eady, Walter R., assignor.)
Chrysler Corporation. (See Hansen, Wray C., assignor.)
Chrysler Corporation. (See Niven, Archie M., assignor.)
Chrysler Corporation. (See Patterson, Herbert F., assignor.)
Chrysler Corporation. (See Pennington, Gordon R., assignor.)
Cissell, William M., near Louisville, Ky. Sadiron rest. 2,287,373; June 23.
Cisski, Irving, Schiller Park, assignor to General Scientific Corporation, Chicago, Ill. Lens mount. 2,287,468; June 23.
Clairol Incorporated. (See Yven, Emile J., assignor.)
Clark Equipment Company. (See Williams, Alfred O., assignor.)
Clark, John O'F., University City, Mo., assignor to The American Brake Shoe and Foundry Company, New York, N. Y. Link. 2,287,293; June 23.
Clausen, Ralph P., Yeadon, Pa., and H. F. Vieau, Liverpool, assignors to The Solvay Process Company, New York, N. Y. Apparatus and method for solidification of materials. 2,287,087; June 23.
Clayton, William B., Waco, Tex. Fill pipe cap. 2,287,750; June 23.
Cleveland Punch & Shear Works Company, The. (See Longfield, William F., assignor.)
Clifford Manufacturing Co. (See Woods, John E., assignor.)
Clymer, Charles C., Altamont, N. Y., assignor to General Electric Company. Frequency changer set. 2,287,603; June 23.
Cochran, Clyde E., Cleveland, Ohio, assignor to The Elwell-Parker Electric Company. Industrial truck. 2,287,469; June 23.
Coffing, Frederick W., Danville, Ill. Free chain hoist—full automatic and semi-automatic. 2,287,551; June 23.
Cohen, Charles A., Elizabeth, N. J., assignor to Standard Oil Development Company. Producing magnesium alcoholates. 2,287,088; June 23.
Colle, John J., and R. F. Atkinson, Mount Vernon, Ohio. Automatic water temperature control. 2,287,294; June 23.
Cole, Ralph C. (See Frey, F. E., and Cole.)
Coleman, Gerald H. (See Matheson, L. A., Boyer, and Coleman.)
Columbia Broadcasting System, Inc. (See Goldmark, Peter C., assignor.)
Comstock, George S., Jr., Bethlehem, Pa., assignor to Bethlehem Steel Company. Walking beam. 2,287,604; June 23.
Conacher, James E., Watford, assignor to Blaw-Knox Limited, London, England. Valve operating mechanism for concrete pumps. 2,287,470; June 23.
Connors, Anna E., Portland, Oreg. Electrical connector. 2,287,232; June 23.
Conte, John, Jersey City, N. J. Motor driven rotary polishing device. 2,287,725; June 23.
Cooke, Giles B. (See McManus, C. E., Cooke, and Ryan.)
Cooper, Benjamin, New York, N. Y. Piece-work recording machine. 2,287,089; June 23.
Cooper, Benjamin, Jersey City, N. J. Traffic control system. 2,287,090; June 23.
Coppola, Louis A. (See Solinas, Peter, assignor.)
Corbellini, Arnaldo. (See D'Ambrosio, A., and Corbellini.)
Corkery, Frank W., Crafton, and R. H. Bailey, Clairton, Pa., assignors to Pennsylvania Industrial Chemical Corporation. Tile binder. 2,287,513; June 23.
Corn Products Refining Company. (See Bulfer, A. J., and Gapen, assignors.)
Corn Products Refining Company. (See Swallen, Lloyd C., assignor.)
Cox, Irvin W., West Allis, and E. W. Seeger, Wauwatosa, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Heater for thermal relay. 2,287,295; June 23.
Craig, Edward C., U. S. Navy, and G. W. Leyde, Arlington, Va. Insulating, waterproof, and cushioning shoe. 2,287,026; June 23.
Crane Co. (See Frederickson, Edward A., assignor.)
Crane Co. (See Mueller, Alfred, assignor.)
Cranmer, Richard S., assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Automatic phonograph. 2,287,726; June 23.
Cranmer, Richard S., assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Automatic phonograph. 2,287,727; June 23.
Crooks, Ralph K. (See Whitelock, L. D., and Crooks.)
Crosby Steam Gage & Valve Company. (See Klafstad, Erling, assignor.)
Crown Cork & Seal Company. (See McManus, C. E., Cooke and Ryan, assignors.)
Cube Steak Machine Company. (See Spang, Joseph P., assignor.)
Cummins, William F., Jr., Fort Peck, Mont. Method of and apparatus for determining the density of materials. 2,287,027; June 23.
Cuomo, Angelo, Brooklyn, N. Y., deceased, A. J. Forte, executor. Collapsible safety razor. 2,287,493; June 23.
Cushwa, Charles B., and T. C. Kane, Youngstown, Ohio. Method and apparatus for making dished heads. 2,287,091; June 23.
Cutler-Hammer, Inc. (See Cox, I. W., and Seeger, assignors.)
Dale, James F., Highland Park, Ill. Sorting machine. 2,287,728; June 23.
Dallos, George, assignor to United Incandescent Lamp & Electrical Company, Limited, Ujpest, Hungary. Disturbance suppression in radio receivers. 2,287,296; June 23.
D'Ambrosio, Angelo, and A. Corbellini, Milan, Italy. Manufacture of artificial spinnable material. 2,287,028; June 23.
Danciger Oil & Refineries, Inc. (See Heinemann, Heinz, assignor.)
Dann, Curtis M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of improved pigments. 2,287,416; June 23.
De Ford, Perl E., assignor of one-half to P. H. Detweiler, Twin Falls, Idaho. Nut holder. 2,287,233; June 23.
Degenhardt, Hope H., executrix. (See Hawley, Charles G.)
De Mattia, Peter, Passaic, N. J. Toggle. 2,287,417; June 23.
De Ment, Robert R., Cleveland, Ohio. Drape support. 2,287,471; June 23.
Detroit Harvester Company. (See Kost, Harold W., assignor.)
Detroit Lubricator Company. (See Springston, Roscoe C., assignor.)
Detweiler, P. H. (See De Ford, Perl E., assignor.)
Dever, Harry A. Exeter, Nebr. Oil filter. 2,287,670; June 23.
De Vilbiss Company, The. (See Tracy, Robert W., assignor.)
Dewey, David B., Pasadena, assignor to The Fluor Corporation, Ltd., Los Angeles, Calif. Mechanical draft cooling tower. 2,287,297; June 23.
Dexter Folder Company. (See Schneider, W. E., Williams, and Yeo, assignors.)
Dickson, John B. and H. R. Voorhees, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Indicating device. 2,287,605; June 23.
Dill, William. (See Hopp, L., and Dill.)
Dillenburger, Wolfgang, Klein-Machnow, assignor to Fernseh G. m. b. H., Berlin-Zehlendorf, Germany. Dissector tube arrangement. 2,287,298; June 23.
Dillon, W. C., & Company. (See Dillon, William C., assignor.)
Dillon, William C., assignor to W. C. Dillon & Company, Inc., Chicago, Ill. Dynamometer. 2,287,299; June 23.
Dircksen, Arnold D. (See Munroe, C. L., and Dircksen.)
Dixie Machinery Mfg. Co. (See Bindner, Charles M. assignor.)
Dodge, Adiel Y., South Bend, Ind. Hydraulic torque converter. 2,287,374; June 23.
Dodge, Kern. (See Zimmermann, Hans J., assignor.)
Dome, Robert B., Bridgeport, Conn., assignor to General Electric Company. Electric translating circuit. 2,287,514; June 23.
Donahue, Mary E. (See Levy, V. A., and Donahue.)
Douglas & Lomason Co. (See Wieckol, William A., assignor.)
Dover, Samuel M. (See Morehead, James A.)
Dow Chemical Company, The. (See Bennett, Wallis R., assignor.)
Dow Chemical Company, The. (See Britton, E. C., and Perkins, assignors.)
Dow Chemical Company, The. (See Matheson, L. A., and Boyer, assignors.)
Dow Chemical Company, The. (See Matheson, L. A., Boyer, and Coleman, assignors.)
Dow Chemical Company, The. (See Mills, Lindley E., assignor.)
Dow, Dewey M., and F. H. Burmeister, Toledo, Ohio, and C. R. Heckler, Wilmington, Del., assignors to Air-Way Electric Appliance Corporation, Toledo, Ohio. Vacuum cleaner. 2,287,515; June 23.
Dowdell, Ralph L., St. Paul, assignor to Regents of the University of Minnesota, Minneapolis, Minn. Making shot. 2,287,029; June 23.
Draper Corporation. (See Brown, Carl D., assignor.)
Dry, John D., New York, N. Y. Hospital bed and the like. 2,287,552; June 23.
Ducharme, Gilbert D., Detroit, Mich. Trailer hitch. 2,287,234; June 23.
Duda, Oswald, Corsicana, Tex., assignor to American Well & Prospecting Company. Securing devices to shafts. 2,287,343; June 23.
Dudley, Christopher W., Bennettsville, S. C. Display device. 2,287,418; June 23.
Duftschmid, Franz, Heidelberg, E. Linckh and F. Winkler, Ludwigshafen-on-the-Rhine, Germany, assignors to Standard Catalytic Company. Synthesis of hydrocarbons. 2,287,092; June 23.
Dumore Company, The. (See Nelson, James H., assignor.)
Duncan, James K., assignor to United States Gypsum Company, Chicago, Ill. Punch. 2,287,168; June 23.
Dunn, Holbert E. (See Strauss, J., and Dunn.)
Dunsheath, Percy, Abinger, and F. T. Griffiths, Gravesend, assignors to W. T. Henley's Telegraph Works Company Limited, Westcott, Dorking, England. Tubular melting furnace. 2,287,671; June 23.
Du Pont, E. I., de Nemours & Company. (See Ball, Robert W., assignor.)
Du Pont, E. I., de Nemours & Company. (See Boller, Ernest R., assignor.)
Du Pont, E. I., de Nemours & Company. (See Boller, E. R., and Remler, assignors.)

Du Pont, E. I., de Nemours & Company. (See Dann, Curtis M., assignor.)
Du Pont, E. I., de Nemours & Company. (See Ewing, Alvin L., assignor.)
Du Pont, E. I., de Nemours & Company. (See Farmer F., and Garrett, assignors.)
Du Pont, E. I., de Nemours & Company. (See Flint, R. B., and Kaufert, assignors.)
Du Pont, E. I., de Nemours & Company. (See Hardy, V. R., and Miles, Jr., assignors.)
Du Pont, E. I., de Nemours & Company. (See Henke, C. O., and Etzel, assignors.)
Du Pont, E. I., de Nemours & Company. (See Holt, Harold S., assignor.)
Du Pont, E. I., de Nemours & Company. (See McCleary, Ray L., assignor.)
Du Pont, E. I., de Nemours & Company. (See Miller, Charles F., assignor.)
Du Pont, E. I., de Nemours & Company. (See Pings, Wilbur B., assignor.)
Du Pont, E. I., de Nemours & Company. (See Reichert, J. S., McNeight, and Elston, assignors.)
Du Pont, E. I. de Nemours & Company. (See Stryker, Harvey I., assignor.)
Du Pont, E. I., de Nemours & Company. (See Wernlund, C. J., Benner and Bair, assignors.)
Du Pont, E. I., de Nemours & Company. (See Wuertz, A. J., Lee, and Buxbaum, assignors.)
Duramore Buildings, Inc. (See Carpenter, Miles H., assignor.)
Duval, Montague H., Great Neck, N. Y. Shower cabinet. 2,287,419; June 23.
Eady, Walter R., Royal Oak, assignor to Chrysler Corporation, Highland Park, Mich. Fastening device. 2,287,606; June 23.
Easton, Harold S., and C. G. Vokes, London, England. Filter. 2,287,344; June 23.
Easy Washing Machine Corporation. (See Litle, Thomas J., Jr., assignor.)
Eaton, Robert E., Burlington, Iowa. Adjustable seat for chairs and the like. 2,287,030; June 23.
Eby, Elias G., Pharr, Tex. Crankshaft and connecting rod connection. 2,287,472; June 23.
Edes Manufacturing Company, The. (See Masse, Thomas J., assignor.)
Edmonston, William E., Chappaqua, assignor to Riegel Paper Corporation, New York, N. Y. Paper sheet dispensing carton. 2,287,420; June 23.
Egerton, Lawson, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Stabilization of halogenated compounds. 2,287,421; June 23.
Eiben, Michael A., Cleveland, Ohio. Clinker cooler. 2,287,300; June 23.
Electric & Musical Industries Limited. (See White, Eric L. C., assignor.)
Electric Storage Battery Company, The. (See Haverbeck, Edgar, assignor.)
Electrolux Corporation. (See Hansson, Erik O. H., assignor.)
Ellis, Carleton, Montclair, N. J., assignor to Standard Oil Development Company. Match. 2,287,093; June 23.
Elston, Arthur A. (See Reichert, J. S., McNeight, and Elston.)
Elwell-Parker Electric Company, The. (See Cochran, Clyde E., assignor.)
Endres, Michael A., Cross Plains, Wis. Tractor hitch. 2,287,516; June 23.
Erickson, Carl R., assignor to Bardwell & McAllister, Inc., Los Angeles, Calif. Optical projection device. 2,287,345; June 23.
Etzel, Gastao. (See Henke, C. O., and Etzel.)
Ewing, Alvin L., Richmond, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Yarn processing operation. 2,287,517; June 23.
Fahnestock, Frank C., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Conversion of hydrocarbons. 2,287,672; June 23.
Fair, Charles, and C. B. Gary, Portsmouth, Ohio, assignors to Vulcan Corporation. Molding press. 2,287,675; June 23.
Fairbanks, Gordon J., assignor to Stewart-Warner Corporation, Chicago, Ill. Automobile heater control apparatus. 2,287,674; June 23.
Fairchild Engine and Airplane Corporation. (See Gregory, Alfred T., assignor.)
Fallert, Clifford D., assignor to Gaylord Container Corporation, St. Louis, Mo. Container. 2,287,729; June 23.
Fannally, Marion T. (See Perkins, S., Fannally, and Wright, Jr.)
Farmer, Fred, and J. F. Garrett, Cranford, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Muffle furnace. 2,287,094; June 23.
Farnsworth, Philo T., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Rectifier. 2,287,607; June 23.
Farnsworth Television and Radio Corporation. (See Farnsworth, Philo T., assignor.)
Farnsworth Television and Radio Corporation. (See Habegger, Harvey C., assignor.)
Farnsworth Television and Radio Corporation. (See Herbst, Philip J., assignor.)
Farrel-Birmingham Company. (See Fraumann, F. W., and Kitchen, assignors.)
Farrell, Michael J., Atlantic Highlands, assignor of one-fourth to F. J. McKeever, Jersey City, N. J. Driving means for motors, engines, pumps, and the like. 2,287,673; June 23.
Fastpic Corporation. (See Reiter, Otis F., assignor.)
Federman, Albert G., Chester, Pa. Degrading rubber. 2,287,095; June 23.
Fehlman, Earnest E. (See Kocher, Frederick, assignor.)
Felt & Tarrant Mfg. Co. (See Turck, Joseph A. V., assignor.)
Fenn, Emory W., Chicago, Ill. Interlock for elevator doors. 2,287,751; June 23.
Feragen, A. E., Inc. (See Bennett, Claude C., assignor.)
Fernseh G. m. b. H. (See Dillenburger, Wolfgang, assignor.)
Ferris, Seymour W., Aldan, assignor to The Atlantic Refining Company, Philadelphia, Pa. Treatment of wax. 2,287,730; June 23.
Feustel, Ernest A. (See Smetana, Otto F., assignor.)
Field, Oscar S., assignor to General Railway Signal Company, Rochester, N. Y. System and apparatus for operating prison cell doors. 2,287,422; June 23.
Field, Oscar S., assignor to General Railway Signal Company, Rochester, N. Y. System and apparatus for operating prison cell doors. 2,287,423; June 23.
Fishel, William J., Winston-Salem, N. C. Oil burner. 2,287,346; June 23.
Fisher, Lawrence E. (See Frank, W. H., and Fisher.)
Fisher, Lawrence E. (See Toegsen, A. A., and Fisher.)
Fletcher, Thomas, assignor to The A. C. Williams Company, Ravenna, Ohio. Damper. 2,287,424; June 23.
Flint, Robert B., Wilmington, Del., and F. H. Kaufert, St. Paul, Minn., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Pest control. 2,287,235; June 23.
Floten, Donald W., assignor to Chicago Roller Skate Company, Chicago, Ill. Fuse. 2,287,553; June 23.
Fluor Corporation, The. (See Dewey, David B., assignor.)
Flynn, Edmund T., Scituate, assignor to W. J. Sullivan, Boston, and F. A. Powers, Quincy, Mass. Life raft. 2,287,518; June 23.
Food Machinery Corporation. (See Paxton, Hale, assignor.)
Forbes Lithograph Manufacturing Company, The. (See Ostrander, Robert K., assignor.)
Ford, Clyde A., Jr., Olney Springs, Colo. Combined hay rake and stacker. 2,287,375; June 23.
Forrester, L. P. (See Guidry, Charles L., assignor.)
Forte, Anthony J., executor. (See Cuomo, Angelo, deceased.)
Fox, Benjamin. (See Burkhardt, J. E., and Fox.)
Fox, Edward J., Washington, D. C. Production of dicalcium phosphate. 2,287,758; June 23.
Fox, Joseph H., New York, N. Y. Display holder. 2,287,425; June 23.
Frank, William H., and L. E. Fisher, assignors to Bulldog Electric Products Company, Detroit, Mich. Switch. 2,287,676; June 23.
Frank, Frederick C., assignor to Bendix Aviation Corporation, South Bend, Ind. Airplane wheel. 2,287,236; June 23.
Franks, Charles M., and W. A. Nightingale, Evansville, Ind. Combined bottle lifter and carrier. 2,287,731; June 23.
Fraumann, Fred W., and H. E. Kitchen, assignors to Farrel-Birmingham Company, Inc., Buffalo, N. Y. Testing instrument for toothed wheels. 2,287,677; June 23.
Fredrickson, Edward A., assignor to Crane Co., Chicago, Ill. Tilting closet actuator mechanism. 2,287,169; June 23.
Freeman, Walter R., Clayton, assignor to Wagner Electric Corporation, St. Louis, Mo. Brake control mechanism. 2,287,301; June 23.
French, George F., assignor, by mesne assignments, to R. French, Manchester, England, and himself. Multiple warp ladder web. 2,287,519; June 23.
French, Oliver S., Detroit, Mich., assignor to Thompson Products Incorporated, Cleveland, Ohio. Joint assembly. 2,287,608; June 23.
French, Roger. (See French, George F., assignor.)
Freshwaters, Edison C., assignor to Jos. Schlitz Brewing Company, Milwaukee, Wis. Carton. 2,287,520; June 23.
Frey, Frederick E., and R. C. Cole, Bartlesville, Okla., assignors to Phillips Petroleum Company. Reclaiming sulphuric acid. 2,287,732; June 23.
Fridolin Bersche, et al. (See Haltenhof, Guy E., assignor.)
Fried, Armin, New York, N. Y. Sheared beaver coat and making the same. 2,287,733; June 23.
Friend, Herman, New York, N. Y. Group continuous electric outlet. 2,287,096; June 23.
Frohwein, Heinrich, Oberbruch, Rhineland, Germany, assignor to North American Rayon Corporation, New York, N. Y. Apparatus for the continuous after-treatment of threads. 2,287,031; June 23.
Furlong, Francis A., and N. C. Penfold, assignors to Autogas Company, Chicago, Ill. Humidifier. 2,287,376; June 23.

Gage, Frederick. (See Muskat, I. E., and Gage.)
Galion Iron Works & Manufacturing Company, The. (See Arndt, Franklin E., assignor.)
Gallant, Louis C. (See Busignies, H. G., Gallant, and Bour.)
Gallier, Edwin L., Chicago, Ill. Phonographic device. 2,287,377; June 23.
Ganz, Albert G., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Inductance device. 2,287,170; June 23.
Gapen, Clark C. (See Bulfer, A. J., and Gapen.)
Garand, John C., Springfield, Mass., assignor to the Government of the United States of America, as represented by the Secretary of War and his successors in office. Barrel and gas cylinder assembly for firearms. 2,287,032; June 23.
Garrett, James F. (See Farmer, F., and Garrett.)
Gary, Charles B. (See Fair, C., and Gary.)
Gary, Jacques L., assignor to R. Gary, Bronx, N. Y. Microscope and illuminated stand therefor. 2,287,764; June 23.
Gary, Robert. (See Gary, Jacques L., assignor.)
Gayer, John D. (See Thumin, C., and Gayer.)
Gaylord Container Corporation. (See Fallert, Clifford D., assignor.)
Gedge, Charles F., assignor to The Buckeye Incubator Company, Springfield, Ohio. Humidifier and control for incubators. 2,287,237; June 23.
General Chemical Company. (See Ogburn, Sihon C., Jr., assignor.)
General Electric Company. (See Clymer, Charles C., assignor.)
General Electric Company. (See Dome, Robert B., assignor.)
General Electric Company. (See Harbison, George C., assignor.)
General Electric Company. (See Jones, Benjamin W., assignor.)
General Electric Company. (See King, Ralph E., assignor.)
General Electric Company. (See McMahan, Kenton D., assignor.)
General Electric Company. (See Powers, James H., assignor.)
General Electric Company. See Purpura, August C.)
General Electric Company. (See Smith, Sidney R., Jr., assignor.)
General Electric Company. (See Thumin, C., and Gayer, assignors.)
General Electric Company. (See Wagner, Ernest A., assignor.)
General Electric Company. (See Warrington, Albert R. Van C., assignor.)
General Electric Company. (See Weeks, Walter R., assignor.)
General Electric Company. (See Wilson, I. H., and Beaver, assignors.)
General Motors Corporation. (See Johnston, Hal C., assignor.)
General Motors Corporation. (See Smith, Harry F., assignor.)
General Motors Corporation. (See Smith, William K., assignor.)
General Properties Company, Inc. (See Turin, John J., assignor.)
General Railway Signal Company. (See Field, Oscar S., assignor.)
General Scientific Corporation. (See Cisski, Irving, assignor.)
Genter, Harold C. (See Sardeson, Robert, assignor.)
Geopfrich, Rudolph A., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake. 2,287,238; June 23.
Geopfrich, Rudolph A., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake. 2,287,239; June 23.
Gifford, Clayton E., and J. F. Harrison, assignors to The Huber Mfg. Company, Marion, Ohio. Power take-off. 2,287,302; June 23.
Gilien, George A., Bronx, assignor to Daniel F. Young, Rockville Centre, N. Y. Electric scissors. 2,287,347; June 23.
Gilman Fanfold Corporation. (See Kerr, James G., assignor.)
Giuseffi, Jerome, Cincinnati, Ohio, assignor to The Goodall Worsted Company, Sanford, Maine. Double breasted coat. 2,287,680; June 23.
Gleason, William W., Chicago, and A. J. Schob, Oak Park, assignors to Nachman-Springfilled Corporation, Chicago, Ill. Mattress. 2,287,734; June 23.
Glines, William H., Berkeley, Calif. Pants and skirt hanger. 2,287,473; June 23.
Globe-Union Inc. (See Redmon, John T., assignor.)
Godwin, James E., New York, N. Y. Identification device. 2,287,678; June 23.
Goettsch, Karl O. (See Bing, J., and Block, assignors.)
Goldmark, Peter C., assignor to Columbia Broadcasting System, Inc., New York, N. Y. Method and apparatus for television. 2,287,033; June 23.
Goldsmith, Hugo, assignor to Sport Products, Inc., Cincinnati, Ohio. Game ball. 2,287,171; June 23.
Goodall Worsted Company, The. (See Giuseffi, Jerome, assignor.)
Goode, John B. (See Lesher, C. E., and Goode.)
Goodman Manufacturing Company. (See Cartlidge, Frank, assignor.)
Goodrich, B. F., Company, The. (See Partridge, Edward G., assignor.)
Goodrich, B. F., Company, The. (See Tousley, Nelson E., assignor.)
Graham, Tom C., Long Beach, Calif. Micrometer gauge for internal threads. 2,287,097; June 23.
Graver Tank & Mfg. Co. (See Wilkin, L. A., and Marner, assignors.)
Gray, Peter. (See Young, G. H., and Gray.)
Gregory, Alfred T., assignor to Fairchild Engine and Airplane Corporation, Farmingdale, Long Island, N. Y. Manifold for internal combustion engines. 2,287,609; June 23.
Greenawalt, Frederick A., Columbus, Ohio. Dial clock. 2,287,679; June 23.
Griffith, Glyn D. H. (See Hartley, G. C., and Griffith.)
Griffiths, Francis T. (See Dunsheath, P., and Griffiths.)
Grotelite Company, Inc., The. (See Ryder, Charles D., assignor.)
Guidry, Charles L., assignor of one-half to L. P. Forrester, New Orleans, La. Cream cheese box or carton. 2,287,610; June 23.
Haas, Frederick H. (See Blakesley, G. R., and Haas.)
Habart, Charles, and J. Lukes, Cleveland, Ohio. Pruning shears. 2,287,303; June 23.
Habegger, Harvey C., Monroe, Ind., assignor to Farnsworth Television and Radio Corporation. Automatic record changing apparatus. 2,287,098; June 23.
Hageman, Louis F., assignor to American Sales Book Company, Inc., Niagara Falls, N. Y. Hot carbon spotting apparatus. 2,287,426; June 23.
Halford, Frank B., Edgware, assignor to D. Napier & Son Limited, London, England. Cooling of pistons of internal combustion engines. 2,287,735; June 23.
Hall, Harry A., Morral, Ohio. Pickup device. 2,287,304; June 23.
Hallerberg, Theodore W., Chicago, Ill. Indicator. 2,287,241; June 23.
Haltenhof, Guy E., Columbia, assignor of ten per cent to F. Bersche, Waterloo, and thirty-nine per cent to L. A. Weilbacher, Columbia, Ill. Phonograph record. 2,287,240; June 23.
Hand, Walter E. (See McCutcheon, K. C., and Hand.)
Handley, William N., Richmond, Mo. Key case. 2,287,521; June 23.
Hansen, Wray C., assignor to Chrysler Corporation, Highland Park, Mich. Speedometer. 2,287,554; June 23.
Hansson, Erik O. H., Stockholm, Sweden, assignor to Electrolux Corporation, Dover, Del. Vacuum cleaner. 2,287,474; June 23.
Hapman, Henry W., Detroit, Mich. Flight conveyer. 2,287,378; June 23.
Harbison, George C., Erie, Pa., assignor to General Electric Company. Shelf. 2,287,611; June 23.
Hardesty, John O., Arlington, Va., W. H. Ross and K. D. Jacob, Washington, D. C., assignors to H. A. Wallace, as Secretary of Agriculture of United States of America, and his successors in office. Granulation of fertilizer. 2,287,759; June 23.
Hardin, George F., McKenzie, Tenn. Illuminating device for airplane landing fields. 2,287,612; June 23.
Hardy, Vernal R., and J. B. Miles, Jr., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Artificial wool. 2,287,099; June 23.
Harrison, John F. (See Gifford, C. E., and Harrison.)
Harrison, Laurence S. (See Harrison, L. S., Canton, and Kay, assignors.)
Harrison, Laurence S., Bronxville, A. A. Canton, New York, N. Y., and A. G. Kay, Palm Beach, Fla., assignors, by mesne assignments, to said L. S. Harrison. Method of and apparatus for refrigeration and air conditioning. 2,287,172; June 23.
Hart, Fred V., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for shaping soles. 2,287,242; June 23.
Hartley, George C., and G. D. H. Griffith, London, England, assignors to Western Electric Company, Incorporated, New York, N. Y. Key pulsing sender for telephone systems. 2,287,613; June 23.
Hartz, Julius, New Orleans, La. Radio transmission and reception by means of uni-directional modulation. 2,287,173; June 23.
Hastings Manufacturing Company. (See Phillips, Harold P., assignor.)
Haverbeck, Edgar, Berlin, Germany, assignor to The Electric Storage Battery Company, Philadelphia, Pa. Separator for electric accumulators. 2,287,305; June 23.
Hawkins, Homer W., Sweetwater, Tex. Portable folding chair. 2,287,614; June 23.
Hawley, Charles G., Chicago, Ill., deceased; H. H. Degenhardt and V. T. Hawley, executrices, assignors, by mesne assignments, to Hawley Engineering Corporation, Cleveland, Ohio. System of water purification and waste disposal. 2,287,427; June 23.
Hawley Engineering Corporation. (See Hawley, Charles G., assignor.)
Hawley, Virginia T., executrix. (See Hawley, Charles G.)
Hayden, James G., Jr., Westernport, Md., assignor to West Virginia Pulp and Paper Company, New York, N. Y. Coating paper. 2,287,348; June 23.

Hayter, Richard B., assignor of one-third to R. Barnum and one-third to J. Seals, Kansas City, Mo. Ball gun. 2,287,636; June 23.

Hazard, Frederick E., Chicago, Ill. Refrigerating device for bottled beverages. 2,287,681; June 23.

Healy, Joseph F., Jr. (See Hubbell, H., and Healy.)

Hebert, Charles A., New York, N. Y., and A. J. Wier, Elizabeth, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical shielding apparatus. 2,287,243; June 23.

Heckler, Christian R. (See Dow, D. M., Burmeister, and Heckler.)

Hediger, Arthur, Zurich, Switzerland. Calculating typing machine with a motor drive. 2,287,100; June 23.

Hedin, Uno C., and C. H. Larson, Elkhart, Ind., assignors to The Adlake Company. Mercury switch relay. 2,287,306; June 23.

Heinemann, Heinz, Pampa, Tex., assignor to the firm Danciger Oil & Refineries, Inc., Tulsa, Okla. Catalytic composition. 2,287,244; June 23.

Heising, Raymond A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Relative phase measuring circuit and method. 2,287,174; June 23.

Helmond, William F., West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,287,475; June 23.

Henke, Clyde O., Wilmington, and G. Etzel, Newark, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Purification of camphor. 2,287,522; June 23.

Henley's, W. T., Telegraph Works Company Limited. (See Dunsheath, P., and Griffiths, assignors.)

Henry, Earle G., Chicago, Ill., assignor to Buckley Music System, Inc. Combination switch and record selector. 2,287,682; June 23.

Herbst, Philip J., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Television receiving system. 2,287,307; June 23.

Hercules Powder Company. (See Martin, Robert W., assignor.)

Herr, James H. (See Munroe, C. L., Herr, and Dircksen.)

Herriott, William. (See Bruce, E., and Herriott.)

Hershberger, Arthur B., Lansdowne, assignor to The Atlantic Refining Company, Philadelphia, Pa. Production of motor fuels by solvent extraction. 2,287,736; June 23.

Hess, Frederic O., assignor to The Selas Company, Philadelphia, Pa. Furnace wall burner. 2,287,245; June 23.

Hess, Frederic O., assignor to The Selas Company, Philadelphia, Pa. Furnace wall burner. 2,287,246; June 23.

Heyer, Frederic K., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. 2,287,175; June 23.

Hicks, Patrick K., Columbus, Ohio. Lubricator. 2,287,760; June 23.

Hill, William, New York, N. Y. Interlocking buckle. 2,287,308; June 23.

Hirsch, Paul A. (See Hodson, F., and Hirsch.)

Hirsch, Roy, Flushing, assignor to Universal Slide Fastener Co. Inc., Long Island City, N. Y. Locking slide fastener. 2,287,349; June 23.

Hodson, Frank, Elmhurst, and P. A. Hirsch, assignors to American Ore Reduction Corporation, New York, N. Y. Apparatus for reducing ore. 2,287,476; June 23.

Hoffman-LaRoche, Inc. (See Isler, Otto, assignor.)

Hoffman-LaRoche Inc. (See Karrer, Paul, assignor.)

Hoffman-La Roche Inc. (See Warnat, Kurt, assignor.)

Hoffmann, Edward C., University City, assignor to Triple "E" Products Company, St. Louis, Mo. Sizer construction for pencil sharpeners. 2,287,247; June 23.

Hollander, Aladar, Los Angeles, assignor to Byron Jackson Co., Huntington Park, Calif. Pumping apparatus. 2,287,034; June 23.

Holley, George M., et al. (See Udale, Stanley M., assignor.)

Holmes, Gifford I., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Burner control system. 2,287,248; June 23.

Holsey, Charles V. (See White, George D., assignor.)

Holt, Harold S., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chlorine derivatives of benzyl phenyl ether. 2,287,249; June 23.

Hooker, Donald E., and F. G. Nicolaus, assignors to R. T. Moloney, Chicago, Ill. Electric shooting range. 2,287,429; June 23.

Hooker Electrochemical Company. (See Beanblossom, Joy E., assignor.)

Hooker Electrochemical Company. (See Osborne, S. G., Lowry, and Beanblossom.)

Hopp, Leo, New York, and W. Dill, Newark, N. J., assignor to The Hopp Press, Incorporated, New York, N. Y. Price ticket holder. 2,287,428; June 23.

Hopp Press, Incorporated, The. (See Hopp, L., and Dill, assignors.)

Horvitz, Leo, Houston, Tex., assignor to E. E. Rosaire, Houston, Tex. Means and method for analysis. 2,287,101; June 23.

Houdaille-Hershey Corporation. (See Jandus, Herbert S., assignor.)

Houk, Alva L., assignor to Röhm & Haas Company, Philadelphia, Pa. Preparing formyl diamines. 2,287,523; June 23.

Howard, Richard, Los Angeles, Calif. Combined oven rack and drip catcher. 2,287,309; June 23.

Howe, John H., Kingsville, assignor of one-half to J. C. Ryals, Aransas Pass, Tex. Kelley joint marker. 2,287,310; June 23.

Hoyt, Frederick A., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone coin collector. 2,287,176; June 23.

Hubbell, Harvey, Incorporated. (See Hubbell, H., and Healy, Jr., assignors.)

Hubbell, Harvey, Long Hill, and J. F. Healy, Jr., Bridgeport, assignors to Harvey Hubbell, Incorporated, Bridgeport, Conn. Solderless connector. 2,287,035; June 23.

Huber Mfg. Company, The. (See Gifford, C. E., and Harrison, assignors.)

Hufford, Raymond, Anderson, Ind. Suction governor. 2,287,036; June 23.

Huffstickler, William A., Gastonia, assignor to Knotters, Incorporated, West Gastonia, N. C. Knot tying device. 2,287,311; June 23.

Hughes, Chester R. (See Wolverton, P. B., and Hughes.)

Hughes, Everett C. (See Burk, R. E., and Hughes, assignors.)

Hull, Charles J. (See Osborne, F. H., and Hull.)

Humason, Harris A. (See Carlson, Axel S., assignor.)

Hunter, Walter J. (See Pereira, W. E., and Hunter.)

Hurka, Rudolph J., Anniston, Ala., assignor to Monsanto Chemical Company. Purification of phosphoric acid. 2,287,683; June 23.

Hussmann-Ligonier Company. (See McMillan, William B., assignor.)

Huzenlaub, Erich G., Brentford, assignor of one-half to J. H. Rogers, Kenley, England; F. H. Rogers executor of said J. H. Rogers, deceased. Treatment of wheat and kindred cereals. 2,287,737; June 23.

Hydril Company of California. (See Stone, Frederick, assignor.)

Hygrade Sylvania Corporation. (See Casellini, Ezio T., assignor.)

Ileman, Emil A., Bethlehem, assignor, by mesne assignments, to The Pennsylvania Company for Insurances on Lives and Granting Annuities, Philadelphia, Pa. Circuit breaker. 2,287,250; June 23.

Industrial Wire Cloth Products Company. (See Mieras, Merritt A., assignor.)

Infilco, Inc. (See Behrman, Abraham S., assignor.)

Inredeco, Inc. (See Morgenthaler, Max R., assignor.)

International Harvester Company. (See Baker, D. B., and Peterson, assignors.)

International Harvester Company. (See Johnston, E. A., and Peterson, assignors.)

International Standard Electric Corporation. (See Bowsher, Edward A. H., assignor.)

International Standard Electric Corporation. (See Busignies, H. G., Gallant, and Bour, assignors.)

International Standard Electric Corporation. (See Scott, T. R., and Webb, assignors.)

International Standard Electric Corporation. (See Terman, Frederick E., assignor.)

International Telephone & Radio Manufacturing Corporation. (See Kandoian, Armig G., assignor.)

International Telephone & Radio Manufacturing Corporation. (See Klein, Norman E., assignor.)

Ippolito, Leonard, Jersey City, N. J. Shoe press with interchangeable last plate. 2,287,616; June 23.

Irwin Foundry & Mine Car Company. (See Sensenich, Chester G., assignor.)

Isler, Otto, Basle, Switzerland, assignor to Hoffmann-La Roche, Inc., Nutley, N. J. Preparation for promoting the growth of plants. 2,287,102; June 23.

Israel, David P., Boston, Mass. Cleaning pad. 2,287,477; June 23.

Jackson, John G., and R. H. Kingdon, assignors to Square D Company, Detroit, Mich. Mounting means for enclosed electric devices. 2,287,684; June 23.

Jackson, John M. (See Carpenter, V. W., and Jackson.)

Jackson, Sidney W., Parma, assignor to The Permold Company, Cleveland, Ohio. Molding apparatus. 2,287,524; June 23.

Jacob, Kenneth D. (See Hardesty, J. O., Ross, and Jacob.)

Jandus, Herbert S., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Variable ratio brake lever. 2,287,037; June 23.

Jandus, Herbert S., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Fender shield and mounting. 2,287,615; June 23.

Janes, Thomas R., Langhorne, assignor to Superior Zinc Corporation, Bristol, Pa. Metal recovery and refining furnace. 2,287,038; June 23.

Jansson, Gustav E., North Quincy, Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electric circuit breaker. 2,287,039; June 23.

Jasco, Incorporated. (See Pirkle, Louis E., assignor.)

Jeannette Glass Company, The. (See Cassell, Robert P., assignor.)

Jelenko, J. F., & Co. Inc. (See Berger, Herbert R., assignor.)

Jelinek, Otto K., Chicago, Ill. Means for providing variable capacity highways. 2,287,685; June 23.

Joesting, Frederick D., Chicago, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Temperature responsive device. 2,287,177; June 23.

Johns-Manville Corporation. (See Wells, Edward H., Jr., assignor.)

Johnson, Charles. (See Nyberg, H. W., and Johnson.)

Johnson, Ellen S., administratrix. (See Johnson, Jonas F.)

Johnson, Jonas F., deceased, by E. S. Johnson, administratrix to collect, assignor to E. S. Johnson, Chicago, Ill. Paper cutter guide. 2,287,738; June 23.

Johnson, William B., U. S. Army. Traction device. 2,287,040; June 23.

Johnston, Edward A., Chicago, and R. E. Peterson, Riverside, Ill., assignors to International Harvester Company. Fuel pump for engines. 2,287,478; June 23.

Johnston, Hal C., assignor to General Motors Corporation, Dayton, Ohio. Forming refrigerating apparatus. 2,287,178; June 23.

Johnston, Leo M., Jenkintown, assignor to Walker Manufacturing Company, Philadelphia, Pa. Adjustable support for heddle bars. 2,287,739; June 23.

Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. Motor starter. 2,287,617; June 23.

Jones, Everett P., Elizabeth, N. J., assignor to The Linde Air Products Company. Method of and apparatus for flame machining. 2,287,103; June 23.

Jones, Ralph E., Grand Rapids, Mich. Shaving or hair clipping apparatus. 2,287,686; June 23.

Jones, William D., London, England. Manufacture of nonporous metal articles. 2,287,251; June 23.

Josephs, Henry, New York, N. Y. Toilet accessory. 2,287,618; June 23.

Journeaux, Didier, Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Circuit breaker control system. 2,287,041; June 23.

Joyce, Bryan P., East Orange, N. J., assignor to American Armament Corporation, New York, N. Y. Gun locking mechanism. 2,287,104; June 23.

Jue, William P., San Francisco, Calif. Producing motion picture film illustrating surgical technique. 2,287,568; June 23.

Juster, Arthur W. (See Kitts, Harry R., assignor.)

Kader, Tayegjee G. A., Surat, India. Food kit. 2,287,312; June 23.

Kallmann, Hartmut I., Berlin-Charlottenburg, and E. Kuhn, Berlin, Germany. Device for the production of slow neutrons. 2,287,619; June 23.

Kallmann, Hartmut I., Berlin-Charlottenburg, and E. Kuhn, Berlin, Germany. Device for irradiating objects with neutrons, especially for depicting them by means of neutron-radiation. 2,287,620; June 23.

Kandoian, Armig G., New York, N. Y., assignor to International Telephone & Radio Manufacturing Corporation. Two-course localizer. 2,287,621; June 23.

Kane, Thomas C. (See Cushwa, C. B., and Kane.)

Kannenberg, Walter F., Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electronic organ. 2,287,105; June 23.

Karrer, Paul, Zurich, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Homologues of Di-tocopherols. 2,287,106; June 23.

Karrer, Paul, Zurich, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Delta 2,6-phytadienic acid and the manufacture of same. 2,287,107; June 23.

Kaufert, Frank H. (See Flint, R. B., and Kaufert.)

Kaufmann, Berthold, Great Neck, N. Y. Attachment for skis. 2,287,252; June 23.

Kaufmann, John J., Elkins Park, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Loom harness. 2,287,687; June 23.

Kaufmann, John J., Elkins Park, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Heddle frame. 2,287,688; June 23.

Kay, Alfred G. (See Harrison, L. S., Canton, and Kay.)

Kellogg, Edward W., Moorestown, N. J., assignor to Radio Corporation of America. Sound recording apparatus. 2,287,253; June 23.

Kellogg, Homer G., assignor to Motor Products Corporation, Detroit, Mich. Metalworking machine. 2,287,254; June 23.

Kelsey, Cadwallader W., assignor to Rototiller, Inc., Troy, N. Y. Tilling device. 2,287,479; June 23.

Kemmerer, Ralph R., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,287,108; June 23.

Kende, George, New York, N. Y., and P. J. Brownscombe, East Orange, N. J., assignors to Universal Camera Corporation, New York, N. Y. Calculator. 2,287,430; June 23.

Kennedy-Van Saun Mfg. & Eng. Corporation. (See Pyle, John V., assignor.)

Keresztesy, John C., Rahway, and J. R. Stevens, Plainfield, assignors to Merck & Co. Inc., Rahway, N. J. Rat pellagra preventing compounds and their production. 2,287,042; June 23.

Kerr, James G., Washington, D. C., assignor to Gilman Fanfold Corporation, Niagara Falls, N. Y. Severance structure for manifolding stationery. 2,287,431; June 23.

Kiehl, Vern H., Guide Rock, Nebr. Two-row topper. 2,287,379; June 23.

King, Ralph E., Fort Wayne, Ind., assignor to General Electric Company. Refrigerator cabinet. 2,287,622; June 23.

Kingdon, Ralph H. (See Jackson, J. G., and Kingdon.)

Kinzbach, Robert B., Houston, Tex. Pipe holding slip. 2,287,432; June 23.

Kitchen, Harry E. (See Fraumann, F. W., and Kitchen.)

Kitts, Harry R., assignor of one-half to A. W. Juster, Green Bay, Wis. Fireball lighter. 2,287,525; June 23.

Klafstad, Erling, Melrose, assignor to Crosby Steam Gage & Valve Company, Boston, Mass. System for safeguarding the operation of steam boilers. 2,287,433; June 23.

Klein, Clarence J., Hollidays Cove, W. Va., and E. W. Rieger, Bloomingdale, Ohio. Metal rolling. 2,287,380; June 23.

Klein, Norman E., Chicago, Ill., assignor, by mesne assignments, to International Telephone & Radio Manufacturing Corporation. Direction finding apparatus. 2,287,623; June 23.

Klingelhoefer, William C., Syracuse, N. Y., assignor to The Solvay Process Company, New York, N. Y. Production of sulphur monochloride. 2,287,555; June 23.

Klouman, Henning, assignor to Michiana Products Corporation, Michigan City, Ind. Tray for heat treating furnaces. 2,287,740; June 23.

Knight, Milton C., Worcester, Mass. Refrigerating apparatus. 2,287,313; June 23.

Knoedler, Theodore P. (See Reeves, P. B., and Knoedler.)

Knotters, Incorporated. (See Huffstickler, William A., assignor.)

Knudsen, Charles O., Brooklyn, N. Y. Floating drydock. 2,287,434; June 23.

Kocher, Frederick, Wilkinsburg, Fla., assignor to E. E. Fehlman, Detroit, Mich. Fluid pressure controlled windshield wiper. 2,287,179; June 23.

Kockums Mekaniska Verkstads Aktiebolag. (See Brodén, John G. M., assignor.)

Kohlhagen, Walter, Elgin, Ill. Regulating device for timepieces. 2,287,043; June 23.

Kollath, Francis C., Chicago, Ill. Portable lamp. 2,287,109; June 23.

Koon, Arthur J., assignor to J. R. Wiggers, Grand Rapids, Mich. Valve. 2,287,435; June 23.

Korn, Harry and M., Los Angeles, Calif. Gravity ball check device and self-cleaning condenser for smokers' pipes or cigarette holders. 2,287,436; June 23.

Korn, Max. (See Korn, Harry and M.)

Kost, Harold W., Ferndale, assignor, by mesne assignments, to Detroit Harvester Company, Detroit, Mich. Fastener. 2,287,180; June 23.

Kramer, Maurice G. (See Moss, H. V., and Kramer.)

Kroger, Fred H., Patchogue, N. Y., assignor to Radio Corporation of America. Radio relaying system. 2,287,044; June 23.

Krogman, Alfred W., West Long Branch, N. J. Oil filter. 2,287,526; June 23.

Kroll, Nathan J. (See Kroll, Samuel and N. J.)

Kroll, Samuel and N. J., Chicago, Ill. Running gear for collapsible carriages. 2,287,314; June 23.

Kroll, Samuel and N. J., Chicago, Ill. Collapsible carriage and shackle mounting therefor. 2,287,315; June 23.

Kuhn, Ernst. (See Kallmann, H. I., and Kuhn.)

Lacy Manufacturing Company. (See Sandberg, William A., assignor.)

Laidley, William E., assignor to C. L. Steber, Chicago, Ill. Lighting fixture. 2,287,381; June 23.

Lambach, Fritz, Fairview, N. J. Lace attachment for flat knitting machines. 2,287,480; June 23.

Land, Edwin H., Wellesley Farms, Mass., assignor, by mesne assignments, to Polaroid Corporation, Dover, Del. Translucent screen. 2,287,556; June 23.

Landis Machine Company. (See Nell, Frederic, assignor.)

Landis Machine Company. (See Reimschissel, Charles A., assignor.)

Landis Tool Company. (See Price, Ralph E., assignor.)

Langenfeld, Adolph L., New Holstein Wis. Slide holder and magazine. 2,287,624; June 23.

Langgaard, Carl E., Mineola, assignor to G. G. Sloan, Brooklyn, N. Y. Ice making apparatus. 2,287,255; June 23.

Langgaard, Carl E., Mineola, assignor to G. G. Sloan, Brooklyn, N. Y. Ice machine. 2,287,256; June 23.

Larrondo, Francisco. (See Santa Maria, A., and Larrondo.)

Larson, Carl H. (See Hedin, U. C., and Larson.)

Lass, William P. (See Prati, E., and Lass.)

Latanski, Steve, Chicago, Ill. Water heater. 2,287,181; June 23.

Laucks, I. F., Inc. (See Attwell, P. B., assignor.)

Lavino, E. J., and Company. (See Sell, Gilbert E., assignor.)

Leach, Eugene J., Whitefish, Mont. Nonremovable container closure. 2,287,625; June 23.

Leake, James M., assignor to Toledo Stamping and Manufacturing Company, Toledo, Ohio. Rocker arm shaft bracket. 2,287,182; June 23.

Lear Avia, Inc. (See Lear, William P., assignor.)

Lear, William P., Dayton, assignor, by mesne assignments, to Lear Avia, Inc., Piqua, Ohio. Antenna drag cup. 2,287,257; June 23.

Lee, Henry R. (See Wuertz, A. J., Lee, and Buxbaum.)

Lentsch, Mathias J., Silverton, Oreg. Root trimming plow. 2,287,527; June 23.
Lesher, Carl E., Ben Avon Heights, and J. B. Goode, McDonald, assignors to Pittsburgh Coal Carbonization Company, Pittsburgh, Pa. Low temperature carbonization of coal. 2,287,437; June 23.
Levy, Viola A., New York, N. Y., and M. E. Donahue, assignors to Angelica Jacket Company, St. Louis, Mo. Apparel garment. 2,287,258; June 23.
Levyn, Joseph I., Brooklyn, N. Y. Window structure. 2,287,741; June 23.
Leyde, Gen W. (See Craig, E. C., and Leyde.)
Lieber, Eugene, Lindon, N. J., assignor to Standard Oil Development Company. Manufacturing lubricating oils. 2,287,110; June 23.
Lilja, Edgar D., assignor to Barber-Colman Company, Rockford, Ill. Control apparatus. 2,287,045; June 23.
Linckh, Eduard. (See Duftschmid, F., Linckh, and Winkler.)
Linde Air Products Company, The. (See Jones, Everett P., assignor.)
Linde Air Products Company, The. (See Ross, Harold T., assignor.)
Linde Air Products Company. (See Yendall, Edward F., assignor.)
Lindsay, Horace W., LaPorte, Ind., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Brake mechanism. 2,287,438; June 23.
Lindstrom, Carl, Chicago, Ill. Collapsible tube or receptacle. 2,287,259; June 23.
Listo Pencil Corporation. (See Wehn, Charles E., assignor.)
Litle, Thomas J., Jr., South Bend, Ind., assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Ironer shoe. 2,287,528; June 23.
Lively, Grover H., St. Albans, W. Va. Musical instrument. 2,287,183; June 23.
Livingston, Jay K., assignor of one-half to B. Battelstein, Houston, Tex. Barrier alarm. 2,287,382; June 23.
Lockwood, William C., Chicago, Ill. Exposure meter film carton. 2,287,481; June 23.
Lodding, Frederick W., Worcester, Mass. Doctor mechanism for rolls and cylinders. 2,287,350; June 23.
Logan Engineering Co. (See Logan, Henry H., assignor.)
Logan, Henry H., assignor to Logan Engineering Co., Chicago, Ill. Lathe drive mechanism. 2,287,046; June 23.
Lohr, Raymond J., Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Toy typewriter. 2,287,184; June 23.
Lohr, Raymond J., Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Toy typewriter. 2,287,185; June 23.
Lomax, Clarence E., Oak Park, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,287,383; June 23.
Longfield, William F., assignor to The Cleveland Punch & Shear Works Company, Cleveland, Ohio. Tie-plate punch. 2,287,689; June 23.
Lord, Hugh C., assignor to Lord Manufacturing Company, Erie, Pa. Resilient mounting. 2,287,316; June 23.
Lord Manufacturing Company. (See Lord, Hugh C., assignor.)
Loud, John P., Cumberland, Md., assignor to Celanese Corporation of America. Treatment of steel surfaces. 2,287,111; June 23.
Lourie, Jacques W., New York, N. Y. Magnetic clamp. 2,287,112; June 23.
Loverch, Charles L., and J. K. Rubin, Brooklyn, N. Y. Marking and cutting machine. 2,287,690; June 23.
Lowe, Joe, Corporation. (See Roth, Ernest J., assignor.)
Lowry, Robert B. (See Osborne, S. G., Lowry, and Beanblossom.)
Lucassian, Hrach, Chicago, Ill. Machine for cleaning fringes on domestic carpets and oriental rugs. 2,287,[illegible]; June 23.
Luck, James V., Los Angeles, Calif. Surgical instrument. 2,287,260; June 23.
Luebke, Albert J., Jr., Milwaukee, Wis. Combination desk and dining table. 2,287,626; June 23.
Lukes, John. (See Habart, C., and Lukes.)
Maccaferri, Mario, New York, N. Y. Reed of cane, plastic, or any other material for clarinets, saxophones, and like musical instruments. 2,287,529; June 23.
Mackay Radio and Telegraph Company. (See Alford, Andrew, assignor.)
Mallinckrodt Chemical Works. (See Bush, Milton T., assignor.)
Malsbary, Job F., and W. W. Taylor, Oakland, Calif. Diaphragm pump. 2,287,627; June 23.
Mandel, Louis, Chicago, Ill. Phonographic apparatus. 2,287,742; June 23.
Marathon Battery Company. (See McEachron, Edgar J., assignor.)
Marchou, Elie R., Neuilly-sur-Seine, France. Making self-locking nuts. 2,287,691; June 23.
Marinsky, Davis, assignor, by mesne assignments, of one-half to said D. Marinsky and one-half to L. H. Morin, Bronx, N. Y. Lock slider. 2,287,482; June 23.
Mark, Clayton, & Company. (See Vang, Alfred, assignor.)
Markey, Andrew J., San Antonio, Tex. Amusement device. 2,287,113; June 23.
Marner, Charles L. (See Wilkin, L. A., and Marner.)
Marsh, Jas. P., Corporation. (See Yonkers, William A., assignor.)
Martin, Robert W., assignor to Hercules Powder Company, Wilmington, Del. Resinous product and manufacture thereof. 2,287,351; June 23.
Martin, Robert W., assignor to Hercules Powder Company, Wilmington, Del. Resin manufacture. 2,287,352; June 23.
Martinez, Rene, Cranston, R. I. Pencil. 2,287,384; June 23.
Marvin-Neitzel Corporation. (See Neitzel, Raymond P., assignor.)
Marx, Louis, & Company. (See Lohr, Raymond J., assignor.)
Masse, Thomas J., Alexandria, near Sydney, New South Wales, Australia, assignor to The Edes Manufacturing Company, Plymouth, Mass. Machine for planing metal sheets. 2,287,187; June 23.
Matheson, Lorne A., and R. F. Boyer, assignors to The Dow Chemical Company, Midland, Mich. Stabilizing vinyl aromatic resins against light. 2,287,188; June 23.
Matheson, Lorne A., R. F. Boyer, and G. H. Coleman, assignors to The Dow Chemical Company, Midland, Mich. Stable compositions containing vinylidene chloride polymeric products. 2,287,189; June 23.
Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley wire support. 2,287,692; June 23.
Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley wire support. 2,287,752; June 23.
Matthysse, Irving F., New York, N. Y., assignor to Burndy Engineering Company, Inc. Electrical cable connector. 2,287,761; June 23.
Maui Pineapple Company. (See Butler, Bernard J., assignor.)
Maurer, Howard F., North Tonawanda, N. Y. Changeable lighting device for games. 2,287,385; June 23.
Maxim Silencer Company, The. (See Bourne, Roland B., assignor.)
Mayfield, Harry F., Anderson, S. C., assignor to Barnhardt, Inc., Concord, N. C. Vending machine. 2,287,387; June 23.
McCabe, Ira E., Chicago, Ill. Ignition control. 2,287,386; June 23.
McCabe, Ira E., Chicago, Ill. Mounting room thermostats. 2,287,494; June 23.
McCann, Frank J., Salinas, Calif. Fresh vegetable packing. 2,287,693; June 23.
McCleary, Ray L., Richardson Park, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making pigment material. 2,287,440; June 23.
McCluskey, Sibley B., New York, N. Y. Concentrating ores. 2,287,115; June 23.
McColgan, Wesley E., Trinity Center, Calif. Brake shoe. 2,287,261; June 23.
McCutcheon, Kenneth C., and W. E. Hand, Ashland, Ky., assignors to The American Rolling Mill Company, Middletown, Ohio. Flow reversal in open hearth furnaces and the like. 2,287,186; June 23.
McDonald, Edward F., assignor to McDonald Products Corporation, Buffalo, N. Y. Ash receiver. 2,287,694; June 23.
McDonald Products Corporation. (See McDonald, Edward F., assignor.)
McDonnell, Stephen P., St. Cloud, Minn. Blade-sharpening and honing device. 2,287,317; June 23.
McEachron, Edgar J., assignor to Marathon Battery Company, Wausau, Wis. Galvanic cell and making same. 2,287,114; June 23.
McGinnis, Walter R., assignor to York Ice Machinery Corporation, York, Pa. Absorption refrigeration system. 2,287,441; June 23.
McGowan, Kenneth J. J. (See Bone, H. L., and McGowan.)
McIntyre, Frederic, Newton, Mass. Balanced pressure metering pump. 2,287,318; June 23.
McKeever, Francis J. (See Farrell, Michael J., assignor.)
McLean, Robert E., Fort Benning, Ga. Rotary type can opener. 2,287,442; June 23.
McMahan, Kenton D., Schenectady, N. Y., assignor to General Electric Company. Washing apparatus. 2,287,628; June 23.
McManus, Charles E., Spring Lake, N. J., G. B. Cooke, and V. A. Ryan, assignors to Crown Cork & Seal Company, Inc., Baltimore, Md. Container closure. 2,287,388; June 23.
McMillan, William B., Clayton, assignor to Hussmann-Ligonier Company, St. Louis, Mo. Weighing scale. 2,287,695; June 23.
McNeight, Samuel A. (See Reichert, J. S., McNeight, and Elston.)
McPartland, James H., St. John, New Brunswick, Canada. Ventilator and smoke remover. 2,287,743; June 23.
McQuay-Norris Manufacturing Company. (See Mummert, Arden J., assignor.)
Meagher, Edward J. (See Brescka, R. S., Meagher, and Rearick.)
Meisinger, George A. (See Pereny, L., and Meisinger.)

Mekler, Lev A., assignor to Universal Oil Products Company, Chicago, Ill. Control of endothermic and exothermic reaction. 2,287,047; June 23.
Mercier, Jean, Paris, France. Bumper, especially applicable to railway vehicles. 2,287,389; June 23.
Merck & Co. Inc. (See Keresztesy, J. C., and Stevens, assignors.)
Merry, Fred D., assignor to The American Warming and Ventilating Company, Toledo, Ohio. Fire damper. 2,287,262; June 23.
Mertel, Henry P., Ridgefield, N. J. Tabernacle safe. 2,287,048; June 23.
Michael, Maybelle M., assignor of one-half to M. M. Byles, Vero Beach, Fla. Score pad holder. 2,287,390; June 23.
Michiana Products Corporation. (See Klouman, Henning, assignor.)
Mieras, Merritt A., Redford Township, Wayne County, assignor to Industrial Wire Cloth Products Company, Wayne, Mich. Air cleaner. 2,287,629; June 23.
Miles, John B., Jr. (See Hardy, V. R., and Miles, Jr.)
Miller, Charles F., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Carbonization of cellulose esters. 2,287,696; June 23.
Miller Company, The. (See Runge, Richard M., assignor.)
Miller, Erwin E., Fullerton, Calif. Mud pump piston. 2,287,483; June 23.
Miller, Harry G., Denver, Colo. Valve seat grinder. 2,287,697; June 23.
Miller, Ira A., Houston, assignor to Herbert C. Otis, Dallas, Tex. Paraffin removing device. 2,287,319; June 23.
Miller, Kay, assignor to The Atwood Vacuum Machine Company, Rockford, Ill. Clutch. 2,287,630; June 23.
Miller, Kay, assignor to The Atwood Vacuum Machine Company, Rockford, Ill. Clutch. 2,287,631; June 23.
Miller, Mike A., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Surface treatment of magnesium and magnesium base alloys. 2,287,049; June 23.
Miller, Mike A., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Surface treatment of magnesium and magnesium base alloys. 2,287,050; June 23.
Mills, Lindley E., assignor to The Dow Chemical Company, Midland, Mich. Octyl-halo-phenols. 2,287,443; June 23.
Mills, Victor, assignor to The Procter & Gamble Company, Cincinnati, Ohio. Solid comminuted soap. 2,287,698; June 23.
Minerals and Metals Corporation. (See Brassert, Herman A., assignor.)
Minich, Arthur, assignor to Nuodex Products Co., Inc., Elizabeth, N. J. Incorporating drying metals in paints, varnishes, linoleum, etc. 2,287,116; June 23.
Mining Engineering Company Limited, The. (See Nyborg, Tage G., assignor.)
Minneapolis-Honeywell Regulator Company. (See Holmes, Gifford I., assignor.)
Minneapolis-Honeywell Regulator Company. (See Joesting, Frederick D., assignor.)
Minnesota Mining & Manufacturing Company. (See Oakes, Byron J., assignor.)
Minnick, Charles W., Baltimore, Md. Truss pad. 2,287,353; June 23.
Misch, Arthur C., assignor to M. B. Skinner Co., South Bend, Ind. Guided pipe cutter. 2,287,354; June 23.
Mitchell, Byron V., Jamaica, N. Y. Vulcanizing implement. 2,287,320; June 23.
Mitchell, Glenn E., Hayward, Calif. Antipicking device. 2,287,190; June 23.
Modigliani, Piero, Leghorn, Italy, assignor to Owens-Corning Fiberglas Corporation, Toledo, Ohio. Apparatus for continuously drawing and winding glass fibers. 2,287,557; June 23.
Moloney, Raymond T. (See Hooker, D. E., and Nicolaus, assignors.)
Monahan, Leo J., assignor to O'Donnell Shoe Company, Humboldt, Tenn. Conductive footwear. 2,287,744; June 23.
Monsanto Chemical Company. (See Hurka, Rudolph J., assignor.)
Monsanto Chemical Company. (See Moss, H. V., and Kramer, assignors.)
Montalto, Frank, assignor of one-third to M. Vacca, Bradford, R. I. Winding spindle. 2,287,117; June 23.
Morando, Emanuel R., New York, N. Y. Handy kit novelty. 2,287,530; June 23.
Morawetz, Richard J., Elm Grove, Wis. Motor control system. 2,287,745; June 23.
Morehead, James A., Huntington, W. Va., assignor to S. M. Dover, Chicago, Ill. Reflector. 2,287,191; June 23.
Morgenthaler, Max R., Vevey, Switzerland, assignor, by mesne assignments, to Inredeco, Inc., Panama City, Panama. Obtaining clear extracts from semiliquid mixtures. 2,287,444; June 23.
Morin, Louis H. (See Marinsky, Davis, assignor.)
Morton, Harry E., Drexel Hill, Pa. Test tube closure. 2,287,746; June 23.
Moss, Henry V., and M. G. Kramer, St. Louis, Mo., assignors to Monsanto Chemical Company. Stabilized dicalcium phosphate. 2,287,699; June 23.
Motor Products Corporation. (See Kellogg, Homer G., assignor.)
Mottlau, August Y., Elizabeth, N. J., assignor to Standard Oil Development Company. Treating hydrocarbons. 2,287,118; June 23.
Moulton, Harold R., assignor to American Optical Company, Southbridge, Mass. Multifocal lens. 2,287,632; June 23.
Moyers, Paul A., Fort Collins, Colo. Sanitary food container. 2,287,495; June 23.
Mueller, Albert J., Sarnia, Ontario, Canada, assignor to Standard Oil Development Company. Purifying hydrocarbon products. 2,287,119; June 23.
Mueller, Alfred, Berwyn, assignor to Crane Co., Chicago, Ill. Threading head for machine tools. 2,287,192; June 23.
Mummert, Arden J., University City, assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo. Packing ring. 2,287,051; June 23.
Munroe, Charles L., France Field, Canal Zone, J. H. Herr, and A. D. Dircksen, Dayton, Ohio. Aircraft passing and landing lamp. 2,287,052; June 23.
Mureau, Charles A., Los Angeles, Calif. Cosmetic applicator. 2,287,321; June 23.
Murphy, Dean, Rahway, N. J., assignor, by mesne assignments, to Chadeloid Chemical Company. Aluminum bronze containing compositions. 2,287,053; June 23.
Muskat, Irving E., and F. Gage, Akron, Ohio, assignors to Pittsburgh Plate Glass Company, Allegheny County, Pa. Rubber composition. 2,287,700; June 23.
Musselman, Henry E., assignor to Atlas Press Company, Kalamazoo, Mich. Drill press. 2,287,391; June 23.
Nachman-Springfilled Corporation. (See Gleason, W. W., and Schob, assignors.)
Naftali, Henry. (See Naftali, Rudolf, V., and H.)
Naftali, Rudolf and V., Pelham Manor, and H. Naftali, assignors to American Machine & Foundry Company, New York, N. Y. Tie stitching machine. 2,287,120; June 23.
Naftali, Valentine. (See Naftali, Rudolf, V., and H.)
Nagin, Harry S., Pittsburgh, Pa., assignor to Reliance Steel Products Company, Rankin, Pa. Grating structure. 2,287,558; June 23.
Napier, D., & Son Limited. (See Halford, Frank B., assignor.)
Nash-Kelvinator Corporation. (See Oberg, John O., assignor.)
National Supply Company, The. (See Ringman, Louis A., assignor.)
Nedal, Peder, Meadville, Pa., assignor to Talon, Inc. Apparatus for assembling slide fastener stringers. 2,287,263; June 23.
Neitzel, Raymond P., assignor to Marvin-Neitzel Corporation, Troy, N. Y. Uniform. 2,287,753; June 23.
Nell, Frederic, assignor to Landis Machine Company, Waynesboro, Pa. Chaser assembly. 2,287,392; June 23.
Nelson, James H., assignor to The Dumore Company, Racine, Wis. Grinding wheel dresser. 2,287,701; June 23.
Nelson, Oscar E., Tyrone, Pa., assignor to West Virginia Pulp and Paper Company, New York, N. Y. Apparatus for testing color. 2,287,322; June 23.
Nevitt, Albert R., New Brunswick, N. J., assignor to Bradford Penn Refining Corporation, Clarendon, Pa. Fractionation of hydrocarbons. 2,287,355; June 23.
New England Butt Company. (See Scott, Roger M., assignor.)
New Jersey Machine Corporation. (See von Hofe, George W., assignor.)
Newcum, Kenneth M., assignor to Superior Valve & Fittings Company, Pittsburgh, Pa. Piping system and manifold construction. 2,287,633; June 23.
Newhouse, Walter F., Benton Harbor, Mich. Machinery for making containers. 2,287,121; June 23.
Newman, Isidor, New York, N. Y. Lining machine. 2,287,356; June 23.
Nichols, William M., Auburn, assignor to American Locomotive Company, New York, N. Y. Fuel injection device. 2,287,702; June 23.
Nicolaus, Frank G. (See Hooker, D. E., and Nicolaus.)
Nightingale, William A. (See Franks, C. M., and Nightingale.)
Niven, Archie M., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Locking pin. 2,287,634; June 23.
Nokes, Ernest S., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Sole edge inking machine. 2,287,054; June 23.
Nolte, Wilfred C., assignor to Anderson Box Company, Indianapolis, Ind. Brooder construction. 2,287,635; June 23.
Norris, Edward O., Inc. (See Norris, Edward O., assignor.)
Norris, Edward O., Westport, Conn., assignor to Edward O. Norris, Inc., New York, N. Y. Producing endless foraminous sheet-metal bands. 2,287,122; June 23.
Norris, Edward O., Westport, Conn., assignor to Edward O. Norris, Inc., New York, N. Y. Producing matrices for the electroforming of foraminous sheets. 2,287,123; June 23.
North American Rayon Corporation. (See Frohwein, Heinrich, assignor.)
Nuodex Products Co. (See Minich, Arthur, assignor.)

Nyberg, Gustaf W., and C. Johnson, Chicago, Ill. Combination pencil clip and sharpener. 2,287,703; June 23.
Nyborg, Tage G., assignor of one-half to The Mining Engineering Company Limited, Worcester, England. Lubrication of conveyer rollers. 2,287,357; June 23.
Nye, Hugh C., assignor to Vickers Incorporated, Detroit, Mich. Power transmission. 2,287,559; June 23.
Oakes, Byron J., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Making waterproof sandpaper. 2,287,060; June 23.
Oberg, John O., assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Accelerator control. 2,287,704; June 23.
O'Donnell, Ernest L. (See Platts, R. N., Slichter, O'Donnell, and Bennett.)
O'Donnell Shoe Company. (See Monahan, Leo J., assignor.)
Ogburn, Sihon C., Jr., Westfield, N. J., assignor to General Chemical Company, New York, N. Y. Preparation of monocalcium phosphate. 2,287,264; June 23.
Ohio Brass Company, The. (See Matthes, Samuel S., assignor.)
Oil Well Supply Company. (See Adams, James W., assignor.)
Olpin, Henry C., and J. Wright, Spondon, near Derby, England, assignors to Celanese Corporation of America. Dyeing. 2,287,124; June 23.
Olson, Oscar W., Portland, Oreg. Trailer. 2,287,055; June 23.
Oltmanns, Oltmann, Baileyville, Ill. Saw filing machine. 2,287,265; June 23.
Ong, Sam L., San Mateo, Calif. Article carrier. 2,287,531; June 23.
Osborne, Fred H., Snyder, and C. J. Hull, North Tonawanda, N. Y., assignors to The Rudolph Wurlitzer Company, Cincinnati, Ohio. Automatic phonograph. 2,287,560; June 23.
Osborne, Sidney G., St. Davids, Ontario, Canada, R. B. Lowry, and W. S. Beanblossom, assignors to Hooker Electrochemical Company, Niagara Falls, N. Y. Production of alkali metal chlorates, and more particularly potassium chlorate. 2,287,061; June 23.
Ostrander, Robert K., South Orange, N. J., assignor to The Forbes Lithograph Manufacturing Company, Boston, Mass. Ballistic game apparatus. 2,287,266; June 23.
Otis, Herbert C. (See Miller, Ira A., assignor.)
Ottofy, Ladis H., Chicago, Ill. Phonographic device. 2,287,393; June 23.
Overhead Door Corporation. (See Blodgett, Herbert C., assignor.)
Overstreet, Robert L., Bedford, Va., assignor, by mesne assignments, to Salta Corporation, Jersey City, N. J. Making closed-cell cellular rubber. 2,287,193; June 23.
Owen, John J., and P. T. Parker, Baton Rouge, La., assignors to Standard Oil Development Company. Oxidation of low molecular weight hydrocarbons in liquid phase and catalysts therefor. 2,287,125; June 23.
Owens-Corning Fiberglas Corporation. (See Modigliani, Piero, assignor.)
Owens, Walter L., Chesterfield, assignor to R. W. Shoemaker, Anderson, Ind. Packaging of sheet material. 2,287,056; June 23.
Oyler, Otto I., Canton, Ohio. Internal combustion engine. 2,287,637; June 23.
P. & P. Manufacturing Company. (See Powers, B. T., and Paddock, assignors.)
Packard Motor Car Company. (See Ware, M., and Steele, assignors.)
Packwood, Heza H., Reserve, La. Lawn mower. 2,287,126; June 23.
Paddock, Cecil. (See Powers, B. T., and Paddock.)
Page, Charles B., Evanston, Ill., assignor to Steam and Combustion Company, Racine, Wis. Steam production system. 2,287,057; June 23.
Page, Richard W., and J. F. Roney, Hollywood, Calif. Portable grandstand. 2,287,561; June 23.
Palmer, Robert T., Sharon, assignor to B. F. Sturtevant Company, Boston, Mass. Heat exchanger. 2,287,267; June 23.
Palmer, Robert T., Sharon, assignor to B. F. Sturtevant Company, Boston, Mass. Psychrometrically controlled air cooling system. 2,287,268; June 23.
Palumbo, Joseph, Columbus, assignor of one-half to Vulcan Corporation, Portsmouth, Ohio. Shoe and heel construction. 2,287,445; June 23.
Pardee, Frank, assignor to Anthracite Separator Company, Hazleton, Pa. Apparatus for separating solids of different gravities. 2,287,747; June 23.
Pardee, Frank, assignor to Anthracite Separator Company, Hazleton, Pa. Apparatus for separating solids of different gravities. 2,287,748; June 23.
Parke, Davis & Company. (See Tillitson, Edward W., assignor.)
Parker, Paul T. (See Owen, J. J., and Parker.)
Parkersburg Rig & Reel Company, The. (See Ramey, Harold W., assignor.)
Parsell, Richard K. (See Stephen, Thomas, assignor.)
Parsons, John B., Toledo, Ohio. Mechanism for imparting rectilinear reciprocating movement to members such as vehicle windows. 2,287,269; June 23.
Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Refrigerator latch mechanism. 2,287,446; June 23.
Partridge, Edward G., Stow, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Mold lubricant and molding rubber articles. 2,287,270; June 23.
Patterson, Herbert F., St. Clair Shores, assignor to Chrysler Corporation, Highland Park, Mich. Fluid coupling. 2,287,532; June 23.
Paxton, Hale, Santa Ana, assignor to Food Machinery Corporation, San Jose, Calif. Multiple box. 2,287,194; June 23.
Pease, C. F., Company, The. (See Brunk, Harold J., assignor.)
Peeples, Raymond, Palisade, Colo. Cleaning means for fruits, vegetables, etc. 2,287,447; June 23.
Penfold, Norman C. (See Furlong, F. A., and Penfold.)
Pennington, Gordon R., Birmingham, assignor to Chrysler Corporation, Highland Park, Mich. Brake control. 2,287,562; June 23.
Pennsylvania Company for Insurances on Lives and Granting Annuities, Philadelphia, Pa. (See Ileman, Emil A., assignor.)
Pennsylvania Industrial Chemical Corporation. (See Corkery, F. W., and Bailey, assignors.)
Pereira, William E., and W. J. Hunter, Cincinnati, Ohio. Baking pan. 2,287,638; June 23.
Pereny, Louis, Homewood, and G. A. Meisinger, Chicago, Ill., assignors to The Sherwin-Williams Company, Cleveland, Ohio. Coating composition and use thereof. 2,287,484; June 23.
Perkins, Albert G., Warsaw, N. Y., assignor to Centriline Corporation, Ampere, N. J. Apparatus for coating pipes and the like. 2,287,448; June 23.
Perkins, Ralph P. (See Britton, E. C., and Perkins.)
Perkins, Sidney. (See Wright, Malcolm B., Sr., assignor.)
Perkins, Sidney, Hammond, M. T. Fannaly, Ponchatoula, and M. B. Wright, Jr., Hammond, La. Precooling apparatus. 2,287,705; June 23.
Permold Company, The. (See Jackson, Sidney W., assignor.)
Perry, Elwood R., Charlottesville, Va. Bicycle boat. 2,287,706; June 23.
Persson, Eric S., Malmo, Sweden. Hinge. 2,287,563; June 23.
Peterson, Harold O., Riverhead, N. Y., assignor to Radio Corporation of America. Ultra high frequency antenna feedback balancer. 2,287,533; June 23.
Peterson, Raymond E. (See Baker, D. B., and Peterson.)
Peterson, Raymond E. (See Johnston, E. A., and Peterson.)
Pfouts, Watson. (See Benefiel, Edward N., assignor.)
Philco Radio and Television Corporation. (See Cranmer, Richard S., assignor.)
Phillips, George M., North Bergen, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling secrecy system. 2,287,127; June 23.
Phillips, Harold P., assignor to Hastings Manufacturing Company, Hastings, Mich. Piston ring assembly. 2,287,707; June 23.
Phillips, Paul D., Elmhurst, assignor to Benjamin Electric Mfg. Company, Des Plaines, Ill. Electric fixture. 2,287,564; June 23.
Phillips, Paul D., Elmhurst, assignor to Benjamin Electric Mfg. Company, Des Plaines, Ill. Electric lighting fixture. 2,287,565; June 23.
Phillips, Paul D., Elmhurst, assignor to Benjamin Electric Mfg. Company, Des Plaines, Ill. Motor operated horn. 2,287,566; June 23.
Phillips Petroleum Company. (See Frey, F. E., and Cole, assignors.)
Phoenix Hosiery Company. (See Redeen, Byron C., assignor.)
Picker X-Ray Corporation Waite Manufacturing Division, Inc. (See Stava, Robert J., assignor.)
Pieper, Alphonse F., Brighton, N. Y. Dental apparatus. 2,287,058; June 23.
Pierce, Louis B., Klamath Falls, Oreg. Flashlight case and support. 2,287,485; June 23.
Pings, Wilbur B., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Lubricant composition comprising organic sulphonamides. 2,287,639; June 23.
Pirkle, Louis E., Baton Rouge, La., assignor to Jasco, Incorporated. Purifying fatty acids. 2,287,128; June 23.
Pittsburgh Coal Carbonization Company. (See Lesher, C. E., and Goode, assignors.)
Pittsburgh Plate Glass Company. (See Muskat, I. E., and Gage, assignors.)
Platts, Ralph N., Jackson County, Mo., F. B. Slichter, Johnson County, Kans., E. L. O'Donnell, Jackson County, Mo., and P. T. Bennett, Johnson County, Kans. Apparatus for obtaining soil samples. 2,287,059; June 23.
Polaroid Corporation. (See Binda, Frederick J., assignor.)
Polaroid Corporation. (See Brown, Charles H., assignor.)
Polaroid Corporation. (See Land, Edwin H., assignor.)
Popper, Isaac C., New York, N. Y., assignor to Automatic Turbine Drive Company, Inc. Hydraulic coupling. 2,287,496; June 23.
Porter, Grover C., Maricopa, Calif. Composition of matter and using the same. 2,287,567; June 23.
Poux, Noel J., Meadville, Pa., assignor to Talon, Inc. Fastener. 2,287,323; June 23.

Poux, Noel J., Meadville, Pa., assignor to Talon, Inc. Slide fastener manufacture. 2,287,324; June 23.
Powers, Bernerd T., and C. Paddock, San Francisco, assignors to P. & P. Manufacturing Company, Emeryville, Calif. Fingernail guard. 2,287,062; June 23.
Powers, Frank A., et al. (See Flynn, Edmund T., assignor.)
Powers, Frank T., Glen Cove, N. Y. Process camera. 2,287,271; June 23.
Powers, James H., Fort Wayne, Ind., assignor to General Electric Company. Vacuum breaker. 2,287,534; June 23.
Powers, Paul O., assignor to Armstrong Cork Company, Lancaster, Pa. Copolymerization of terpene hydrocarbons and coal tar hydrocarbons. 2,287,535; June 23.
Powers, Paul O., assignor to Armstrong Cork Company, Lancaster, Pa. Urea-phenol-formaldehyde adhesive. 2,287,536; June 23.
Prati, Enrico, Asti, and W. P. Lass, Santa Cruz, Calif. Bottle basket. 2,287,358; June 23.
Premack, Hyman A., Chicago, Ill. Electric warming pad. 2,287,569; June 23.
Price, Earl R. (See Price, Harold W. and E. R.)
Price, Harold W. and E. R., assignors to Bendix Aviation Corporation, South Bend, Ind. Clutch and transmission operating mechanism. 2,287,272; June 23.
Price, Ralph E., Highfield, Md., assignor to Landis Tool Company, Waynesboro, Pa. Wheel speed control. 2,287,449; June 23.
Price, Robert B., Tulsa, Okla. Belt tightener. 2,287,450; June 23.
Prime Manufacturing Company, The. (See Richardson, John W., assignor.)
Procter & Gamble Company, The. (See Mills, Victor, assignor.)
Pullclean Towel Cabinet Co. (See Wilkinson, Joseph, assignor.)
Pullman-Standard Car Manufacturing Company. (See Christianson, Andrew, assignor.)
Pummill, Edwin W., Indianapolis, Ind. Carburetor. 2,287,570; June 23.
Purpura, August C., Chicago, Ill., assignor to General Electric Company. Coffee maker. 2,287,571; June 23.
Pyle, John V., Pleasantville, assignor to Kennedy-Van Saun Mfg. & Eng. Corporation, New York, N. Y. Steam generator. 2,287,129; June 23.
Quincy Stove Manufacturing Company, The. (See Suchland, Frederick G., assignor.)
Rabb, Michael, assignor to Atlas Supply Company, Newark, N. J. Tire tread gauge. 2,287,273; June 23.
Radio Corporation of America. (See Burnett, Carlos E., assignor.)
Radio Corporation of America. (See Carter, Philip S., assignor.)
Radio Corporation of America. (See Kellogg, Edward W., assignor.)
Radio Corporation of America. (See Kroger, Fred H., assignor.)
Radio Corporation of America. (See Peterson, Harold O., assignor.)
Radio Corporation of America. (See Roberts, Walter Van B., assignor.)
Radio Corporation of America. (See Wagenhals, E. R., and Shardlow, assignors.)
Ralston, Anderson W., and E. W. Segebrecht, assignors to Armour & Company, Chicago, Ill. Separating lead and zinc sulphides. 2,287,274; June 23.
Ramey, Harold W., assignor to The Parkersburg Rig & Reel Company, Parkersburg, W. Va. Hydrodynamic brake mechanism. 2,287,130; June 23.
Raolin Corporation, The. (See Raynolds, James W., assignor.)
Raynes, Alexander, New York, N. Y. Shiftable film-holder for cameras. 2,287,640; June 23.
Raynolds, James W., Pittsburgh, Pa., assignor to The Raolin Corporation, Charleston, W. Va. Container closure liner. 2,287,063; June 23.
Ray-O-Vac Company. (See Wengel, Arthur M., assignor.)
Raze, Douglas D., Robbinsdale, Minn. Internal combustion engine. 2,287,325; June 23.
Rearick, Edward C. (See Brescka, R. S., Meagher, and Rearick.)
Redeen, Byron C., assignor to Phoenix Hosiery Company, Milwaukee, Wis. Combination cutter and binder for circular knitting machines. 2,287,131; June 23.
Redmon, John T., Memphis, Tenn., assignor to Globe-Union Inc., Milwaukee, Wis. Storage battery. 2,287,132; June 23.
Reeves, Paul B. and T. P. Knoedler, assignors to Reeves Pulley Company, Columbus, Ind. Preloaded safety spring unit. 2,287,326; June 23.
Reeves Pulley Company. (See Reeves, P. B., and Knoedler, assignors.)
Reichelt, Hellmuth, Bitterfeld, and H. Zirngibl, Wolfen, Kreis Bitterfeld, Germany. Removing silicic acid from water. 2,287,486; June 23.
Reichert, Joseph S., S. A. McNeight, and A. A. Elston, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Stable dry compositions useful as bleaching and oxidizing agents. 2,287,064; June 23.
Reimschissel, Charles A., assignor to Landis Machine Company, Waynesboro, Pa. Taper die head. 2,287,394; June 23.
Reiter, Aaron, New York, N. Y. Article of jewelry. 2,287,451; June 23.
Reiter, Otis F., assignor to Fastpic Corporation, Baltimore, Md. Toy. 2,287,133; June 23.
Reliance Steel Products Company. (See Nagin, Harry S., assignor.)
Remler, Raymond F. (See Boller, E. R., and Remler.)
Resinous Products & Chemical Company, The. (See Bruson, Herman A., assignor.)
Reynolds, Ellwood W., Westfield, and D. V. Waters, Flemington, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Strand handling apparatus. 2,287,708; June 23.
Reynolds Metals Company. (See Sunderhauf, F. A., and Broderick, assignors.)
Reynolds, William R., Chicago, Ill. Self-anchoring device. 2,287,395; June 23.
Richardson, John W., assignor to The Prime Manufacturing Company, Milwaukee, Wis. Locomotive cab window. 2,287,195; June 23.
Richter, Charles J. (See Rolland, E., and Richter.)
Rickenbacher, Adolph, Los Angeles, Calif. Toothbrush. 2,287,327; June 23.
Riegel Paper Corporation. (See Edmonston, William E., assignor.)
Rieger, Ernest W. (See Klein, C. J., and Rieger.)
Riley Stoker Corporation. (See Andrews, L. V., assignor.)
Ringman, Louis A., Toledo, Ohio, assignor to The National Supply Company, Pittsburgh, Pa. Hydraulic well pumping mechanism. 2,287,709; June 23.
Roberts, John G., Dobbs Ferry, N. Y. Box for razor blades. 2,287,487; June 23.
Roberts, Walter van B., Princeton, N. J., assignor to Radio Corporation of America. Modulation and relay. 2,287,065; June 23.
Roberts, William T. B., Leicester, England, assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Trimming machine. 2,287,275; June 23.
Robertson, Edwin A., Sandusky, Ohio, assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Shielded ignition manifold system. 2,287,134; June 23.
Robertson, Edwin A., Sandusky, hio, assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Coupling means. 2,287,135; June 23.
Rockefeller, William C., Pasadena, assignor to Vultee Aircraft, Inc., Vultee Field, Calif. Stall warning indicator. 2,287,497; June 23.
Rodth, Joseph R., Wilkes-Barre, Pa., assignor to Burgroth Alarm Corporation. Alarm lock. 2,287,572; June 23.
Rogers, Francis H., executor. (See Huzenlaub, Erich G.)
Rogers, George D., U. S. Army, Dover, N. J. Heat exchange unit. 2,287,066; June 23.
Rogers, John H. (See Huzenlaub, Erich G., assignor.)
Rogers, Thomas H., and V. Voorhees, Hammond, assignors to Standard Oil Company, Whiting, Ind. Motor fuel products. 2,287,359; June 23.
Rogoff, Julian, New York, N. Y., assignor to Burndy Engineering Company, Inc. Current tranformer terminal connector. 2,287,762; June 23.
Röhm & Haas Company. (See Bock, Louis H., assignor.)
Röhm & Haas Company. (See Houk, Alva L., assignor.)
Roland, Robert J., assignor to The Alvey-Ferguson Company, Cincinnati, Ohio. Conveyer. 2,287,196; June 23.
Rolland, Eugene, and C. J. Richter, assignors of one-half to Adamston Flat Glass Company, and one-half to Rolland Glass Company, Clarksburg, W. Va. Manufacture of sheet glass. 2,287,136; June 23.
Rolland Glass Company. (See Rolland, E., and Richter, assignors.)
Roney, John F. (See Page, R. W., and Roney.)
Rosaire, E. E. (See Horvitz, Leo, assignor.)
Rose, Jess C., assignor to Bardwell & McAlister, Inc., Los Angeles, Calif. Studio spot lamp. 2,287,328; June 23.
Rosenthal-Isolatoren, G. m. b. H. (See Schusterius, Karl, assignor.)
Ross, Frederick N., Grosse Pointe Park, Mich. Pulley. 2,287,488; June 23.
Ross, Harold T., Bayside, N. Y., assignor to The Linde Air Products Company. Method of and apparatus for eliminating impurities when separating gas mixtures. 2,287,137; June 23.
Ross, William H. (See Hardesty, J. O., Ross, and Jacob.)
Rossom, Ida C., Bergenfield, N. J. Combination crib and play table. 2,287,452; June 23.
Roth, Ernest J., Norwood, N. J., assignor to Joe Lowe Corporation, New York, N. Y. Fat leveling system. 2,287,396; June 23.
Rototiller, Inc. (See Kelsey, Cadwallader W., assignor.)
Rowe, Raymond N., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric switch. 2,287,642; June 23.
Rubin, Jacob K. (See Loverch, C. L., and Rubin.)
Ruch, George S., Northumberland, Pa. Wire connector. 2,287,453; June 23.
Ruggiero, Anthony, Rochester, N. Y. Shoe. 2,287,643; June 23.

Runge, Richard M., assignor to Miller Company, Meriden, Conn. Locking devices for tubular lamps. 2,287,276; June 23.
Rupp, Herbert E., Springfield Township, Richland County, Ohio. Double suction liquid pump. 2,287,397; June 23.
Russell, Joseph O. A., Toronto, Ontario, Canada. Fishing rod support. 2,287,641; June 23.
Ryals, Joe C. (See Howe, John H., assignor.)
Ryan, Victor A. (See McManus, C. E., Cooke, and Ryan.)
Ryder, Charles D., Covington, Ky., assignor to The Grotelite Company, Inc., Bellevue, Ky. Forming and injecting thermoplastic materials. 2,287,277; June 23.
Salta Corporation. (See Overstreet, Robert L., assignor.)
Sandberg, William A., assignor to Lacy Manufacturing Company, Los Angeles, Calif. Constructing horizontal cylindrical tanks. 2,287,197; June 23.
Sandberg, William A., assignor to Lacy Manufacturing Company, Los Angeles, Calif. Constructing horizontal cylindrical tanks. 2,287,198; June 23.
Sangamo Electric Company. (See Weston, George E., assignor.)
Santa Maria, Augustin, and F. Larrondo, Mexico City, Mexico. Hand protecting grips. 2,287,329; June 23.
Sanymetal Products Co., The. (See Anderson, Thomas F., assignor.)
Sappington, Paul, Los Angeles, Calif. Air compressor. 2,287,360; June 23.
Sardeson, Robert, Minneapolis, Minn., assignor to Harold C. Genter, Miami Beach, Fla. Food cooking device. 2,287,330; June 23.
Sas, Elmer, New York, N. Y. Xylophone. 2,287,138; June 23.
Sayles, Robert L., assignor of one-half to S. K. Sayles, Meriden, Kans. Latch. 2,287,710; June 23.
Sayles, Stewart K. (See Sayles, Robert L., assignor.)
Schaeht, Henry, assignor to Sutherland Paper Company, Kalamazoo, Mich. Handled cup. 2,287,644; June 23.
Scharnberg, Herman J. B., deceased, Clewiston, Fla., assignor to M. M. Scharnberg, executrix, Staten Island, N. Y. Key. 2,287,454; June 23.
Scharnberg, Marie M., executrix. (See Scharnberg, Herman J. B., assignor.)
Schick Incorporated. (See Thomas, William A., assignor.)
Schick, Walter A., Brooklyn, N. Y. Automatic stopping device for automotive vehicles. 2,287,199; June 23.
Schlitz, Jos., Brewing Company. (See Freshwaters, Edison C., assignor.)
Schmidt, Herman H., Hanover, Kans., assignor to The Universal Royalty and Development Company, St. Joseph, Mo. Mechanically changing characteristics of liquids. 2,287,067; June 23.
Schneider, George, Montclair, N. J., assignor to Celanese Corporation of America. Material for making rubber articles. 2,287,139; June 23.
Schneider, Louis J., Rockville Centre, N. Y. Inlaying method. 2,287,573; June 23.
Schneider, Walter E., L. C. Williams, and E. J. Yeo, assignors to Dexter Folder Company, Pearl River, N. Y. Sheet feeding apparatus. 2,287,140; June 23.
Schob, Anthony J. (See Gleason, W. W., and Schob.)
Schofield, Ralph W., Vashon, Wash. Liquid dirt solvent for eggs and applying same. 2,287,141; June 23.
Schuhmacher, Thomas A., Chadron, Nebr. Poultry holding and beheading device. 2,287,711; June 23.
Schulz, Hermann, Neu-Isenburg, Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to Chemical Marketing Company Inc., New York, N. Y. Production of betaalkoxycarboxylic acids. 2,287,537; June 23.
Schusterius, Karl, Berlin-Dahlem, assignor to the firm Rosenthal-Isolatoren G. m. b. H., Selb (Bavaria), Germany. Production of densely sintered ceramic masses. 2,287,538; June 23.
Scofield, William W., Old Greenwich, Conn. Hydraulic wheel drive. 2,287,498; June 23.
Scott, Roger M., assignor to New England Butt Company, Providence, R. I. Braiding machine. 2,287,200; June 23.
Scott, Thomas R., and J. K. Webb, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Electrical stress grading device. 2,287,201; June 23.
Seals, John, et al. (See Hayter, Richard B., assignor.)
Secretary of Agriculture of United States of America, and his successors in office. (See Hardesty, J. O., Ross, and Jacob, assignors.)
Seeger, Edwin W. (See Cox, I. W., and Seeger.)
Segebrecht, Ervin W. (See Ralston, A. W., and Segebrecht.)
Seil, Gilbert E., Cynwyd, assignor to E. J. Lavino and Company, Philadelphia, Pa. Corrected basic refractory. 2,287,455; June 23.
Selas Company, The. (See Hess, Frederic O., assignor.)
Sensenich, Chester G., assignor to Irwin Foundry & Mine Car Company, Irwin, Pa. Car axle mounting. 2,287,575; June 23.
Servel, Inc. (See Thomas, Albert R., assignor.)
Shardlow, Lawrence R. (See Wagenhals, E. R., and Shardlow.)
Sherwin-Williams Company, The. (See Pereny, L., and Meisinger, assignors.)
Shoemaker, Robert W. (See Owens, Walter L., assignor.)
Shonnard, Harold W., Montclair, N. J. Apparatus for transporting freight. 2,287,068; June 23.
Shu-Milk Products Corporation. (See Weiss, Arthur J., assignor.)
Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung. (See Barth, Gustav, assignor.)
Sikes, Thomas E., Greensboro, N. C. Hay rack. 2,287,574; June 23.
Simmonds Development Corporation Limited. (See Simmonds, Oliver E., assignor.)
Simmonds, Oliver E., Ripley, assignor to Simmonds Development Corporation Limited, London, England. Pipe coupling. 2,287,142; June 23.
Skinner, M. B., Co. (See Misch, Arthur C., assignor.)
Skoning, John H. S., Cranston, R. I. Apparatus for producing insulating conductors. 2,287,489; June 23.
Slayter Electronic Corporation. (See Slayter, Games, assignor.)
Slayter, Games, Newark, Ohio, assignor to Slayter Electronic Corporation. Method and apparatus for amplifying electrical currents. 2,287,749; June 23.
Slichter, Francis B. (See Platts, R. N., Slichter, O'Donnell, and Bennett.)
Sloan, George G. (See Langgaard, Carl E., assignor.)
Smetana, Otto F., Concord, N. C., assignor of one-half to E. A. Feustel, Hasbrouck Heights, N. J. Knitted fabric. 2,287,143; June 23.
Smith, Cecil A., St. Marys, Pa. Storm and screen sash. 2,287,331; June 23.
Smith, Harry F., Lexington, assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,287,202; June 23.
Smith, Rolf M., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,287,203; June 23.
Smith, Sidney R., Jr., Pittsfield, Mass., assignor to General Electric Company. Jumpering device. 2,287,499; June 23.
Smith, William K., assignor to General Motors Corporation, Dayton, Ohio. Domestic appliance. 2,287,204; June 23.
Socony-Vacuum Oil Company. (See Fahnestock, Frank C., assignor.)
Solinas, Peter, assignor to L. A. Coppola, Brooklyn, N. Y. Sanitary beer comb and cocktail mixer receptacle. 2,287,500; June 23.
Solomon, Harry A., Syracuse, N. Y. Handling device. 2,287,576; June 23.
Solvay Process Company, The. (See Clausen, R. P., and Vleau, assignors.)
Solvay Process Company. (See Klingelhoefer, William C., assignor.)
Spang, Joseph P., Quincy, assignor to Cube Steak Machine Company, Inc., Boston, Mass. Meat slitting machine. 2,287,278; June 23.
Spaulding, William R., Kansas City, Mo. Electromagnetic switch. 2,287,539; June 23.
Spaulding, William R., Kansas City, Mo. Electromagnetic switch. 2,287,571; June 23.
Spencer, Howard F., assignor to Amco, Incorporated, Pittsburgh, Pa. Cover operating mechanism for soaking pit furnaces. 2,287,645; June 23.
Sport Products, Inc. (See Goldsmith, Hugo, assignor.)
Springston, Roscoe C., assignor to Detroit Lubricator Company, Detroit, Mich. Sealing means. 2,287,456; June 23.
Square D Company. (See Jackson, J. G., and Kingdon, assignors.)
Standard Catalytic Company. (See Duftschmid, F., Linckh, and Winkler, assignors.)
Standard Oil Company, The. (See Burk, R. E., and Hughes, assignors.)
Standard Oil Company, The. (See Burk, R. E., and Whitacre, assignors.)
Standard Oil Company. (See Rogers, T. H., and Voorhees, assignors.)
Standard Oil Development Company. (See Cohen, Charles A., assignor.)
Standard Oil Development Company. (See Ellis, Carleton, assignor.)
Standard Oil Development Company. (See Lieber, Eugene, assignor.)
Standard Oil Development Company. (See Mottlau, August Y., assignor.)
Standard Oil Development Company. (See Mueller, Albert J., assignor.)
Standard Oil Development Company. (See Owen, J. J., and Parker, assignors.)
Standard Oil Development Company. (See Zachry, Guy R., assignor.)
Stanley Works, The. (See Parsons, Stuart W., assignor.)
Stanley Works, The. (See Stowell, A. L., and Volz, assignors.)
Staples, Crawford E., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling system. 2,287,144; June 23.
Stava, Robert J., East Cleveland, assignor to Picker X-Ray Corporation Waite Manufacturing Division, Inc., Cleveland, Ohio. Adjustable support. 2,287,577; June 23.
Steam and Combustion Company. (See Page, Charles B., assignor.)
Steber, Clarence L. (See Laidley, William E., assignor.)
Steel Heddle Manufacturing Company. (See Kaufmann, John J., assignor.)

Steele, James W., North Kansas City, Mo. Ironing apparatus. 2,287,646; June 23.
Steele, Marvin J. (See Ware, M., and Steele.)
Steely, James E., Rosedale, Covington, Va., assignor to West Virginia Pulp and Paper Company, New York, N. Y. Rotary digestor. 2,287,332; June 23.
Stephen, Thomas, New York, and R. K. Parsell, Manhasset, N. Y.; said Parsell assignor to said Stephen. Motion picture record. 2,287,145; June 23.
Stern, William, New York, N. Y. Hairpin dispenser. 2,287,146; June 23.
Stevens, Joseph R. (See Keresztesy, J. C., and Stevens.)
Stewart-Warner Corporation. (See Fairbanks, Gordon J., assignor.)
Stone, Arthur P., Akron, assignor to The Wright Tool and Forge Company, Barberton, Ohio. Stud remover. 2,287,069; June 23.
Stone, Frederick, Redondo Beach, assignor to Hydril Company of California, Los Angeles, Calif. Packing head. 2,287,205; June 23.
Stoner-Mudge, Inc. (See Young, G. H., and Gray, assignors.)
Stop Motion Devices Corporation. (See Vossen, Edward, assignor.)
Stowell, Austin L., and F. A. Volz, assignors to The Stanley Works, New Britain, Conn. Screw driver. 2,287,457; June 23.
Stratton, Robert S., Phoenix, Ariz. Evaporative cooler. 2,287,147; June 23.
Strauss, Jerome, New York, N. Y., and H. E. Dunn, Bridgeville, Pa., assignors to Vanadium Corporation of America, New York, N. Y. Ferrotitanium alloys. 2,287,712; June 23.
Stryker, Harvey I., Carneys Point, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of intermediates for dyestuffs. 2,287,647; June 23.
Stumpf, Emil F., Valmeyer, Ill. Continuous power take-off drive. 2,287,279; June 23.
Sturtevant, B. F., Company. (See Palmer, Robert T., assignor.)
Suchland, Frederick G., assignor to The Quincy Stove Manufacturing Company, Quincy, Ill. Oil burning heater. 2,287,361; June 23.
Sullivan, William J., et al. (See Flynn, Edmund T., assignor.)
Sunderhauf, Frederick A., Rutherford, N. J., and F. W. Broderick, New Brighton, N. Y., assignors to Reynolds Metals Company, Richmond, Va. Collapsible carton. 2,287,648; June 23.
Superior Valve & Fittings Company. (See Newcum, Kenneth M., assignor.)
Superior Zinc Corporation. (See Janes, Thomas R., assignor.)
Sutherland Paper Company. (See Schacht, Henry, assignor.)
Swallen, Lloyd C., Pekin, Ill., assignor to Corn Products Refining Company, New York, N. Y. Production of zein. 2,287,649; June 23.
Swenson, Arthur W., Rockford, Ill. Mechanical toy. 2,287,070; June 23.
Taber, Ralph F., North Tonawanda, N. Y. Wear and hardness testing instrument. 2,287,148; June 23.
Talon, Inc. (See Nedal, Peder, assignor.)
Talon, Inc. (See Poux, Noel J., assignor.)
Tauber, Rudolf, New York, N. Y. Book cover. 2,287,149; June 23.
Taylor, John S., Macclesfield, England. Apparatus for cutting cloth. 2,287,398; June 23.
Taylor, Walter W. (See Malsbary, J. F., and Taylor.)
Taylor, William, Peterboro, Ontario, Canada. Float valve. 2,287,150; June 23.
Tenney, William G., Chicago, Ill. Battery terminal. 2,287,490; June 23.
Terman, Frederick E., Stanford University, Calif., assignor to International Standard Electric Corporation, New York, N. Y. Detection arrangement and negative impedance for same. 2,287,280; June 23.
Thomas, Albert R., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,287,281; June 23.
Thomas, William A., Riverside, Conn., assignor to Schick Incorporated. Vibrator. 2,287,501; June 23.
Thompson Products Incorporated. (See French, Oliver S., assignor.)
Thumin, Carl, Yeadon, and J. D. Gayer, Lansdowne, Pa., assignors to General Electric Company. Electric circuit breaker. 2,287,578; June 23.
Tillitson, Edward M., assignor to Parke, Davis & Company, Detroit, Mich. Organic amine derivatives and obtaining same. 2,287,071; June 23.
Timken-Detroit Axle Company, The. (See Alden, Herbert W., assignor.)
Timken Roller Bearing Company, The. (See Buckwalter, Tracy V., assignor.)
Togesen, Alva A., and L. E. Fisher, assignors to Bulldog Electric Products Company, Detroit, Mich. Electrical distribution system. 2,287,502; June 23.
Toledo Stamping and Manufacturing Company. (See Leake, James M., assignor.)
Tornblom, Nils A., Chicago, Ill., assignor to Appleton Electric Company. Explosion-proof switch device. 2,287,650; June 23.
Tousley, Nelson E., Waban, Mass., assignor to The B. F. Goodrich Company, New York, N. Y. Making flat articles having grooved surfaces. 2,287,282; June 23.
Townsend, Leonard G., Washington, D. C. Apparatus for plotting spot graphs. 2,287,072; June 23.
Tracy, Robert W., assignor to The De Vilbiss Company, Toledo, Ohio. Spraying apparatus. 2,287,458; June 23.
Trautman, Oscar C. (See Wood, W. H., and Trautman.)
Traylor Vibrator Company, The. (See Baird, Clyde W., assignor.)
Triple "E" Products Company. (See Hoffmann, Edward C., assignor.)
Trumbull Electric Manufacturing Company, The. (See Rowe, Raymond N., assignor.)
Turck, Joseph A. V., Wilmette, assignor to Felt & Tarrant Mfg. Co., Chicago, Ill. Calculating machine. 2,287,151; June 23.
Turin, John J., Toledo, Ohio, assignor to General Properties Company, Inc. Carburizing without deterioration of furnace alloys. 2,287,651; June 23.
Turnbull, Werd W., Chattanooga, Tenn. Multiple cone dispenser. 2,287,206; June 23.
Tyson, Archie M., Dallas, Tex. Piano. 2,287,503; June 23.
Udale, Stanley M., Detroit, Mich., assignor to G. M. and E. Holley. Torque controlled engine. 2,287,713; June 23.
Udy, Marvin J., Niagara Falls, N. Y. Producing chromium-bearing alloys. 2,287,073; June 23.
Uehling, Fritz F., Passaic, N. J. Regulating variable conditions. 2,287,459; June 23.
Underwood Elliott Fisher Company. (See Anderson, Walter A., assignor.)
Underwood Elliott Fisher Company. (See Helmond, William F., assignor.)
Union Switch & Signal Company, The. (See Allen, E. M., and Young, assignors.)
Union Switch & Signal Company, The. (See Bone, Herbert L., assignor.)
Union Switch & Signal Company, The. (See Bone, H. L., and McGowan, assignors.)
Union Switch & Signal Company, The. (See Kemmerer, Ralph R., assignor.)
Union Switch & Signal Company, The. (See Staples, Crawford E., assignor.)
Union Switch & Signal Company, The. (See Whitelock, L. D., and Crooks, assignors.)
United Aircraft Corporation. (See Buck, Richard S., assignor.)
United Incandescent Lamp & Electrical Company, Limited. (See Dallos, George, assignor.)
United Shoe Machinery Corporation. (See Hart, Fred V., assignor.)
United Shoe Machinery Corporation. (See Nokes, Ernest S., assignor.)
United Shoe Machinery Corporation. (See Roberts, William T. B., assignor.)
United States Gypsum Company. (See Duncan, James K., assignor.)
United States of America, as represented by the Secretary of War and his successors in office, The Government of the. (See Garand, John C., assignor.)
Universal Camera Corporation. (See Kende, G., and Brownscombe, assignors.)
Universal Oil Products Company. (See Mekler, Lev A., assignor.)
Universal Paper Products Company. (See Amberg, Walter E. and S. W., assignors.)
Universal Railway Devices Company. (See Wilson, Jack, assignor.)
Universal Royalty and Development Company. (See Schmidt, Hermann H., assignor.)
Universal Slide Fastener Co. Inc. (See Hirsch, Roy, assignor.)
Universal Slide Fastener Co. Inc. (See Voity, Maurice, assignor.)
University of Minnesota, Regents of the. (See Dowdell, Ralph L., assignor.)
Utility Electric Corp. (See Altschule, Herman, assignor.)
Vacca, Michael. (See Montalto, Frank, assignor.)
Vanadium Corporation of America. (See Strauss, J., and Dunn, assignors.)
Vang, Alfred, Detroit, Mich., assignor to Clayton Mark & Company, Evanston, Ill. Surface welding. 2,287,540; June 23.
Vang, Alfred, Detroit, Mich., assignor to Clayton Mark & Company, Evanston, Ill. Discharge tube. 2,287,541; June 23.
Vang, Alfred, Detroit, Mich., assignor to Clayton Mark & Company, Evanston, Ill. Electric induction heating. 2,287,542; June 23.
Vang, Alfred, Detroit, Mich., assignor to Clayton Mark & Company, Evanston, Ill. Welding method and apparatus. 2,287,543; June 23.
Vang, Alfred, Detroit, Mich., assignor to Clayton Mark & Company, Evanston, Ill. Electric welding of metals and the uniting of dissimilar metals. 2,287,544; June 23.
Van Tongeren, Hermannus, Heemstede, Netherlands. Spark arrester. 2,287,652; June 23.

Vedovell, Rudolph J., Kenilworth, assignor to Chicago Rawhide Mannfacturing Company, Chicago, Ill. Seal. 2,287,207; June 23.
Vickers Incorporated. (See Nye, Hugh C., assignor.)
Vieau, Harold F. (See Clausen, R. P., and Vieau.)
Voity, Maurice, Long Island City, assignor to Universal Slide Fastener Co. Inc., New York, N. Y. Slider. 2,287,362; June 23.
Vokes, Cecil G. (See Easton, H. S., and Vokes.)
Volz, Frederick A. (See Stowell, A. L., and Volz.)
Von Hofe, George W., Bound Brook, assignor to New Jersey Machine Corporation, Hoboken, N. J. Labeling machine. 2,287,579; June 23.
Voorhees, Henry R. (See Dickson, J. B., and Voorhees.)
Voorhees, Vandeveer. (See Rogers, T. H., and Voorhees.)
Vossen, Edward, Brooklyn, assignor to Stop Motion Devices Corporation, New York, N. Y. Electric stop motion controller for knitting machines. 2,287,208; June 23.
Vulcan Corporation. (See Fair, C., and Gary, assignors.)
Vulcan Corporation. (See Palumbo, Joseph, assignor.)
Vultee Aircraft, Inc. (See Rockefeller, William C.)
Wagenhals, Edward R., Summit, and L. R. Shardlow, North Arlington, N. J., assignors to Radio Corporation of America. Insulated heater and manufacture. 2,287,460; June 23.
Wagner Electric Corporation. (See Freeman, Walter R., assignor.)
Wagner, Ernest A., Milford, Conn., assignor to General Electric Company. Coffee maker. 2,287,580; June 23.
Waldecker, Adam A., Dearborn, Mich. Power shovel. 2,287,152; June 23.
Walker, Bernard J., Islington, assignor to Bird & Son, Inc., East Walpole, Mass. Floor covering tile. 2,287,653; June 23.
Walker, Clinton L., Piedmont, Calif. Drill bit. 2,287,714; June 23.
Walker, David O., Johnston, S. C. Tissue dispensing device. 2,287,581; June 23.
Walker Manufacturing Company. (See Johnston, Leo M., assignor.)
Walker, Vernon S., and L. R. Babb, Tulsa, Okla. Valve. 2,287,333; June 23.
Wall, Harry B. (See Wellborn, A. S., and Wall.)
Wallace, Burgess P., Brooklyn, N. Y. Foundry facing. 2,287,153; June 23.
Ware, Marsden, Huntington Woods, and M. J. Steele, assignors to Packard Motor Car Company, Detroit, Mich. Internal combustion engine. 2,287,399; June 23.
Warnat, Kurt, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Phosphoric acid dichlorides of compounds having a bactericidal action and manufacture of same. 2,287,154; June 23.
Warnat, Kurt, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Phosphoric acid dichlorides of 4-amino benzene sulphonamide and manufacture of same. 2,287,155; June 23.
Warrington, Albert R. van C., Wallingford, Pa., assignor to General Electric Company. Protective apparatus. 2,287,504; June 23.
Waterbury Farrel Foundry and Machine Company, The. (See Wilcox, Richard L., assignor.)
Waters, Daniel V. (See Reynolds, E. W., and Waters.)
Webb, John K. (See Scott, T. R., and Webb.)
Weber, Joe, Irwin, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Control system. 2,287,283; June 23.
Weeks, Walter R., Hamden, Conn., assignor to General Electric Company. Cover structure. 2,287,582; June 23.
Weeks, Walter R., Hamden, Conn., assignor to General Electric Company. Coffee maker. 2,287,583; June 23.
Weeks, Walter R., Hamden, Conn., assignor to General Electric Company. Coffee maker. 2,287,584; June 23.
Weeks, Walter R., Hamden, Conn., assignor to General Electric Company. Coffee maker. 2,287,585; June 23.
Weens, Lloyd P., Rockford, Ill. Shielded spoon. 2,287,715; June 23.
Wehn, Charles E., assignor to Listo Pencil Corporation, Alameda, Calif. Mechanical pencil. 2,287,364; June 23.
Weilbacher, Leo A., et al. (See Haltenhof, Guy E., assignor.)
Weinger, Irving. (See Widder, S., and Weinger.)
Weiss, Arthur J., West Orange, assignor to Shu-Milk Products Corporation, Passaic, N. J. Device for dispensing fluid from containers. 2,287,209; June 23.
Wellborn, Arvin S., and H. B. Wall, Little Rock, Ark. Bridge construction. 2,287,210; June 23.
Wells, Edward H., Jr., assignor to Johns-Manville Corporation, New York, N. Y. Car construction. 2,287,400; June 23.
Wengel, Arthur M., Madison, Wis., assignor to Ray-O-Vac Company. All-frequency generator. 2,287,401; June 23.
Werlund, Christian J., North Tonawanda, H. L. Benner, and R. R. Bair, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Copper plating. 2,287,654; June 23.
West Virginia Pulp and Paper Company. (See Hayden, James H., Jr., assignor.)
West Virginia Pulp and Paper Company. (See Nelson, Oscar E., assignor.)
West Virginia Pulp and Paper Company. (See Steely, James E., assignor.)
Western Electric Company. (See Brescka, R. S., Meagher, and Rearick, assignors.)
Western Electric Company. (See Hartley, G. C., and Griffith, assignors.)
Western Electric Company. (See Reynolds, E. W., and Waters, assignors.)
Westinghouse Electric & Manufacturing Company. (See Weber, Joe, assignor.)
Weston, George E., Enfield, England, assignor to Sangamo Electric Company, Springfield, Ill. Prepayment mechanism. 2,287,363; June 23.
Whitacre, Charles H. (See Burk, R. E., and Whitacre.)
White, Eric L. C., assignor to Electric & Musical Industries Limited, Middlesex, England. Elimination of undesired electrical signals. 2,287,334; June 23.
White, George D., assignor of one-half to C. V. Holsey, Jersey City, N. J. Skimmer. 2,287,156; June 23.
Whitelock, Leland D., Wilkinsburg, and R. K. Crooks, Sharpsburg, assignors to The Union Switch & Signal Company, Swissvale, Pa. Transmitting apparatus for communication systems. 2,287,655; June 23.
Whitfield, Joseph E., Grove City, Pa. Fluid device. 2,287,716; June 23.
Widder, J., & Co. (See Widder, S., and Weinger, assignors.)
Widder, Samuel, New York, and I. Weinger, Brooklyn, assignors to J. Widder & Co., New York, N. Y. Phonograph record album. 2,287,365; June 23.
Wieck, Vincent P., St. Louis, Mo. Polishing tool. 2,287,545; June 23.
Wier, Anthony J. (See Hebert, C. A., and Wier.)
Wiggers, Jacob R. (See Koon, Arthur J., assignor.)
Wiggins, John H., Chicago, Ill. Floating tank roof. 2,287,211; June 23.
Wiggins, John H., Chicago, Ill. Seal for floating roofs. 2,287,212; June 23.
Wiggins, John H., Chicago, Ill. Floating roof for liquid storage apparatus. 2,287,213; June 23.
Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Making articles having a polygonal cross section or the like. 2,287,214; June 23.
Wilkin, Lester A., and C. L. Marner, East Chicago, Ind., assignors to Graver Tank & Mfg. Co., Inc., Catasauqua, Pa. Outside stabilizing means for expansion roof tanks. 2,287,586; June 23.
Wilkinson, Joseph, Bridgeport, Conn., assignor, by mesne assignments, to Pullclean Towel Cabinet Co., Inc., New York, N. Y. Ironing machine stripper. 2,287,656; June 23.
Willard, Gerald W., Fanwood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Light modulating apparatus. 2,287,587; June 23.
Williams, A. C., Company, The. (See Fletcher, Thomas, assignor.)
Williams, Alfred O., Battle Creek, assignor to Clark Equipment Company, Buchanan, Mich. Ventilating system. 2,287,215; June 23.
Williams, Leo C. (See Schneider, W. E., Williams, and Yeo.)
Williams, William, Monterey, Calif. Dispenser. 2,287,216; June 23.
Wilson, Irving H., and A. G. Beaver, Lynn, Mass., assignors to General Electric Company. Wire coating die. 2,287,589; June 23.
Wilson, Jack, Chicago, Ill., assignor to Universal Railway Devices Company. Hand brake. 2,287,588; June 23.
Winkler, Fritz. (See Duftschmid, F., Linckh, and Winkler.)
Wiseko, William A., assignor to Douglas & Lomason Co., Detroit, Mich. Laundry tub cabinet. 2,287,657; June 23.
Wolff, Mahlon H., Los Angeles, Calif. Hydraulic drilling jar. 2,287,157; June 23.
Wolverton, Percy B., and C. R. Hughes, Kansas City, Mo. Aircraft landing gear. 2,287,491; June 23.
Wood, Orville T., assignor to Blake Manufacturing Corporation, Clinton, Mass. Flashlight. 2,287,505; June 23.
Wood, Ross D., et al. (See Blue, Archie H., assignor.)
Wood, William H., South Euclid, and O. C. Trautman, Parma, Ohio. Core for immersion heaters. 2,287,402; June 23.
Woodall Industries Incorporated. (See Zinser, Paul R., assignor.)
Woods, John E., Brookline, assignor to Clifford Manufacturing Co., Boston, Mass. Temperature control unit. 2,287,461; June 23.
Wright, John. (See Olpin, H. C., and Wright.)
Wright, Malcolm B., Jr. (See Perkins, S., Fannally, and Wright, Jr.)
Wright, Malcolm B., Sr., assignor of one-half to S. Perkins, Hammond, La. Moisture absorbing apparatus. 2,287,217; June 23.
Wright Tool and Forge Company, The. (See Stone, Arthur P., assignor.)

Wuertz, Alexander J., Wilmington, Del., H. R. Lee, Pitman, N. J., and E. C. Buxbaum, Swarthmore, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Fluoroarylaminoanthraquinone acid wool dyestuffs. 2,287,590; June 23.
Wurlitzer Rudolph, Company. (See Bugg, Kenly C., assignor.)
Wurlitzer. Rudolph, Company, The. (See Osborne, F. H., and Hull, assignors.)
Yale & Towne Manufacturing Company, The. (See Heyer, Frederic K., assignor.)
Yendall, Edward F., Kenmore, N. Y., assignor to The Linde Air Products Company. Method of and apparatus for separating gas mixtures. 2,287,158; June 23.
Yeo, Edward J. (See Schneider, W. E., Williams, and Yeo.)
Yonkers, William A., assignor to Jas. P. Marsh Corporation, Chicago, Ill. Vent valve. 2,287,075; June 23.
York Ice Machinery Corporation. (See McGinnis, Walter R., assignor.)
Young, Daniel F. (See Gillen, George A., assignor.)
Young, Ellsworth S., Skamokawa, Wash. Method of and apparatus for treating veneer blocks. 2,287,403; June 23.
Young, George H., and P. Gray, assignors to Stoner-Mudge, Inc., Pittsburgh, Pa. Antifouling composition. 2,287,218; June 23.
Young, Henry S. (See Allen, E. M., and Young.)
Young, Hobart P., Jr., Winnetka, and C. W. Christensen, assignors to Armour and Company, Chicago, Ill. Hydrogenating nitriles. 2,287,219; June 23.
Young, Leonard A., Detroit, Mich. Spring structure for cushions, mattresses, or the like. 2,287,336; June 23.
Young, Nathaniel, Kittery, Maine. Attachment for screw machines. 2,287,074; June 23.
Younghusband, James L., Chicago, Ill. Lipstick device. 2,287,366; June 23.
Yven, Emile J., Jackson Heights, N. Y., assignor to Clairol Incorporated, Stamford, Conn. Protector for use in hair waving apparatus. 2,287,335; June 23.
Zachry, Guy R., Hobbs, N. Mex., assignor to Standard Oil Development Company. Gas port coupling. 2,287,076; June 23.
Zerk, Oscar U., Chicago, Ill. Mobile cold storage and refrigerating apparatus. 2,287,404; June 23.
Zimmermann, Hans J., assignor of one-half to K. Dodge, Philadelphia, Pa. Power actuated shaver. 2,287,337; June 23.
Zinser, Paul R., assignor to Woodall Industries Incorporated, Detroit, Mich. Laminated trim panel. 2,287,159; June 23.
Zirngibl, Hans. (See Reichelt, H., and Zirngibl.)

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 23D DAY OF JUNE, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Cutting machine. H. E. Edgerton. Re. 22,123; June 23.
Honing mechanism and control means therefor, Automatic. C. W. Floss. Re. 22,125; June 23.
Resins and acid treatment thereof, Urea. C. Ellis. Re. 22,124; June 23.

LIST OF DESIGN INVENTIONS

Amplifier and battery casing, combined hearing aid. C. A. Volf. 132,860; June 23.
Ashtray. C. W. Sawyer. 132,867; June 23.
Badge. R. F. Walker, Jr. 132,861; June 23.
Base for an electron tube or similar article, Stem. C. F. Miller. 132,858; June 23.
Black-out unit for taillight lens. W. C. Thee. 132,870; June 23.
Black-out unit for a combination taillight, and service and stoplight lens. W. C. Thee. 132,871; June 23.
Block, Pulley. H. Auslander. 132,848; June 23.
Brooch. B. J. Hansen. 132,845; June 23.
Cabinet, Radio. N. A. Allo. 132,849; June 23.
Cabinet, Wall. P. D. Parsons. 132,846; June 23.
Doll. A. McQuahae. 132,873; June 23.
Dresser for abrading elements, Angle. E. G. Goehle. 132,842–4; June 23.
Fabric or like article, Embroidered textile. M. E. Darrish. 132,866; June 23.
Frame, Open web trailer. J. M. Foster. 132,853; June 23.
Guard, Safety razor. C. V. Shipley. 132,859; June 23.
Holder, Candlestick. C. W. Sawyer. 132,868; June 23.
Lamp fixture or the like, Air sterilizing. M. B. Cherniak. 132,872; June 23.
Luminaire, Fluorescent. F. C. Winkler and C. F. Haas. 132,869; June 23.
Marker, Memorial grave. O. H. Harer. 132,854–5; June 23.
Microphone and hand control device for a phonograph, Combined. W. J. O'Neil. 132,863; June 23.
Mirror, Hand. I. W. Rice. 132,864; June 23.
Pin, Novelty. S. J. Blume. 132,839–41; June 23.
Poster or similar article. C. W. Rinehart. 132,847; June 23.
Projector. G. Fassin. 132,852; June 23.
Slicer. R. W. Linenfelser. 132,857; June 23.
Reproducer or the like, Sound. K. M. Drollinger. 132,865; June 23.
Stand, Pressing iron. W. M. Cissell. 132,850; June 23.
Starter, Engine. R. M. Heintz. 132,856; June 23.
Telephone reminder. G. E. Morton. 132,862; June 23.
Tray or the like, Hairpin. C. B. Cooper. 132,851; June 23.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 23D DAY OF JUNE, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accelerator control. J. O. Oberg. 2,287,704; June 23.
Acid and the manufacture of same, Delta 2,6-phytadienic. P. Karrer. 2,287,107; June 23.
Acid dichlorides of compounds having a bactericidal action and the manufacture of same, Phosphoric. K. Warnat. 2,287,154; June 23.
Acid dichlorides of 4-amino benzene sulphonamide and the manufacture of same, Phosphoric. K. Warnat. 2,287,155; June 23.
Acid, Purification of phosphoric. R. J. Hurka. 2,287,683; June 23.
Acid, Reclaiming sulphuric. F. E. Frey and R. C. Cole. 2,287,732; June 23.
Acids, Production of beta-alkoxycarboxylic. H. Schulz. 2,287,537; June 23.
Acids, Purifying fatty. L. E. Pirkle. 2,287,128; June 23.
Adhesive. E. R. Boller. 2,287,410; June 23.
Adhesive. E. R. Boller and R. F. Remler. 2,287,411; June 23.
Adhesive, Urea-phenol-formaldehyde. P. O. Powers. 2,287,536; June 23.
Adjustable support. R. J. Stava. 2,287,577; June 23.
Air cleaner. M. A. Mieras. 2,287,629; June 23.
Air compressor. P. Sappington. 2,287,360; June 23.
Air cooling system, Psychromatically controlled. R. T. Palmer. 2,287,268; June 23.
Aircraft landing gear. P. B. Wolverton and C. R. Hughes. 2,287,491; June 23.
Aircraft passing and landing lamp. C. L. Munroe, J. H. Herr, and A. D. Dircksen. 2,287,052; June 23.
Airplane wheel. F. C. Frank. 2,287,236; June 23.
Alarm, Barrier. J. K. Livingston. 2,287,382; June 23.
Alarm lock. J. R. Rodth. 2,287,572; June 23.
Album, Phonograph record. S. Widder and I. Weinger. 2,287,365; June 23.
All-frequency generator. A. M. Wengel. 2,287,401; June 23.
Alloys, Ferrotitanium. J. Strauss and H. E. Dunn. 2,287,712; June 23.
Alloys, Producing chromium-bearing. M. J. Udy. 2,287,073; June 23.
Aluminum bronze containing compositions. D. Murphy. 2,287,053; June 23.
Amine derivatives and obtaining same, Organic. E. M. Tillitson. 2,287,071; June 23.
Amplifier, Power. G. Barth. 2,287,754–5; June 23.
Amusement device. A. J. Markey. 2,287,113; June 23.
Analysis, Means and method for. L. Horvitz. 2,287,101; June 23.
Antenna drag cup. W. P. Lear. 2,287,257; June 23.
Antenna feedback balancer, Ultra high frequency. H. O. Peterson. 2,287,533; June 23.
Antenna, Transmitting. A. Alford. 2,287,220; June 23.
Antifouling composition. G. H. Young and P. Gray. 2,287,218; June 23.
Antipicking device. G. E. Mitchell. 2,287,190; June 23.
Antiseptic. M. T. Bush. 2,287,724; June 23.
Apparatus and method for solidification of materials. R. P. Clausen and H. F. Vlean. 2,287,087; June 23.
Apparatus and method for treating water. A. S. Behrman. 2,287,284; June 23.
Apparatus for assembling slide fastener stringers. P. Nedal. 2,287,263; June 23.
Apparatus for coating fluorescent lamp tubing. E. T. Casellini. 2,287,024; June 23.
Apparatus for coating pipes and the like. A. G. Perkins. 2,287,448; June 23.
Apparatus for continuously drawing and winding glass fibers. P. Modigliani. 2,287,557; June 23.
Apparatus for controlling air flow. R. W. Beckett. 2,287,595; June 23.
Apparatus for cutting cloth. J. S. Taylor. 2,287,398; June 23.
Apparatus for gumming the flaps of envelopes or bags. H. H. Beasley. 2,287,718; June 23.
Apparatus for obtaining soil samples. R. N. Platts, F. B. Slichter, E. L. O'Donnell, and P. T. Bennett. 2,287,059; June 23.
Apparatus for plotting spot graphs. L. G. Townsend. 2,287,072; June 23.
Apparatus for producing insulating conductors. J. H. S. Skoning. 2,287,489; June 23.
Apparatus for reducing ore. F. Hodson and P. A. Hirsch. 2,287,476; June 23.
Apparatus for separating solids of different gravities. F. Pardee. 2,287,747–8; June 23.
Apparatus for testing color. O. E. Nelson. 2,287,322; June 23.
Apparatus for testing motorcycles. C. C. Bennett. 2,287,084; June 23.
Apparatus for the continuous aftertreatment of threads. H. Frohwein. 2,287,031; June 23.
Apparatus for transporting freight. H. W. Shonnard. 2,287,068; June 23.
Apparatus for treating vegetables with hot water and steam. E. Allan. 2,287,014; June 23.
Apparel garment. V. A. Levy and M. E. Donahue. 2,287,258; June 23.
Applicator, Cosmetic. C. A. Mureau. 2,287,321; June 23.
Article carrier. S. L. Ong. 2,287,531; June 23.
Article testing apparatus. R. S. Brescka, E. J. Meagher, and E. C. Rearick. 2,287,664; June 23.
Articles having a polygonal cross section or the like, Making. R. J. Wilcox. 2,287,214; June 23.
Articles having grooved surfaces, Making flat. N. E. Tousley. 2,287,282; June 23.
Ash receiver. E. F. McDonald. 2,287,694; June 23.
Asphalt manufacture. R. E. Burk and C. H. Whitacre. 2,287,511; June 23.
Attachment for screw machines. N. Young. 2,287,074; June 23.
Attachment for skis. B. Kaufmann. 2,287,252; June 23.
Awning fastener. W. B. Brown. 2,287,667; June 23.
Baking pan. W. E. Pereira and W. J. Hunter. 2,287,638; June 23.
Balanced pressure metering pump. F. McIntyre. 2,287,318; June 23.
Ball Game. H. Goldsmith. 2,287,171; June 23.
Bands, Producing endless foraminous sheet-metal. E. O. Norris. 2,287,122; June 23.
Barrel assembling machine. W. R. Anderson. 2,287,658; June 23.
Basket, Bottle. E. Prati and W. P. Lass. 2,287,358; June 23.
Battery, Storage. J. T. Redmon. 2,287,132; June 23.
Battery terminal. W. G. Tenney. 2,287,490; June 23.
Beam, Walking. G. S. Comstock, Jr. 2,278,604; June 23.
Bed and the like, Hospital. J. D. Dry. 2,287,552; June 23.
Bed, Chair. J. D. Bell. 2,287,596; June 23.
Beer comb and cocktail mixer receptacle, Sanitary. P. Solinas. 2,287,500; June 23.
Belt tightener. R. B. Price. 2,287,450; June 23.
Bicycle boat. E. R. Perry. 2,287,706; June 23.
Bit: *See*—
Drill bit.
Blade-sharpening and honing device. S. P. McDonnell. 2,287,317; June 23.
Blower unit for oil burners. R. W. Beckett. 2,287,462; June 23.
Body-weight-distributing construction for shoes and the like. W. C. Burns. 2,287,341; June 23.
Book cover. R. Tauber. 2,287,149; June 23.
Bottle lifter and carrier, Combined. C. M. Franks and W. A. Nightingale. 2,287,731; June 23.
Box: *See*—
Multiple box.
Box for razor blades. J. G. Roberts. 2,287,487; June 23.
Box or carton, Cream cheese. C. L. Guidry. 2,287,610; June 23.
Bracket: *See*—
Rocker arm shaft bracket.
Braiding machine. R. M. Scott. 2,287,200; June 23.
Brake: *See*—
Hand brake.
Brake. J. J. Carnes. 2,287,023; June 23.
Brake. R. A. Geopfrich. 2,287,238–9; June 23.
Brake control. G. R. Pennington. 2,287,562; June 23.
Brake control mechanism. W. R. Freeman. 2,287,301; June 23.
Brake drum and making same. H. Tormyn. 2,287,952; June 23.
Brake lever, Variable ratio. H. S. Jandus. 2,287,037; June 23.
Brake mechanism. H. W. Lindsay. 2,287,438; June 23.
Brake mechanism, Hydrodynamic. H. W. Ramey. 2,287,130; June 23.
Brake shoe. W. E. McColgan. 2,287,261; June 23.
Braking apparatus, Railway. H. L. Bone. 2,287,662; June 23.
Bridge construction. A. S. Wellborn and H. B. Wall 2,287,210; June 23.
Brooder construction. W. C. Nolte. 2,287,635; June 23
Buckle. H. Beazley. 2,287,721–2; June 23.
Buckle, Interlocking. W. Hill. 2,287,308; June 23.
Builder motion. E. J. Abbott. 2,287,013; June 23.
Building construction. M. H. Carpenter. 2,287,229; June 23.

Bumper, especially applicable to railway vehicles. J. Mercier. 2,287,389; June 23.
Burner: *See*—
Furnace wall burner. Oil burner.
Burner control system. G. I. Holmes. 2,287,248; June 23.
Cabinet: *See*—
Laundry tub cabinet. Shower cabinet.
Refrigerator cabinet.
Cable clamp. A. W. Buckner. 2,287,414; June 23.
Calculating machine. J. A. V. Turck. 2,287,151; June 23.
Calculator. G. Kende and P. J. Brownscombe. 2,287,430; June 23.
Camera, Process. F. T. Powers. 2,287,271; June 23.
Camphor, Purification of. C. O. Henke and G. Etzel. 2,287,522; June 23.
Can closing machine. N. P. Bach. 2,287,016; June 23.
Can opener, Rotary type. R. E. McLean. 2,287,442; June 23.
Cap: *See*—
Fill pipe cap.
Car axle mounting. C. G. Sensenich. 2,287,575; June 23.
Car construction. E. H. Wells. 2,287,400; June 23.
Carbon spotting apparatus, Hot. L. F. Hageman. 2,287,426; June 23.
Carbon tetrachloride, Production of. J. E. Beanblossom. 2,287,225; June 23.
Carbonization of cellulose esters. C. F. Miller. 2,287,696; June 23.
Carbonization of coal, Low temperature. C. E. Lesher and J. B. Goode. 2,287,437; June 23.
Carburetor. T. M. Ball. 2,287,593; June 23.
Carburetor. E. W. Pummill. 2,287,570; June 23.
Carburizing without deterioration of furnace alloys. J. J. Turin. 2,287,651; June 23.
Carriage and shackle mounting therefor, Collapsible. S. and N. J. Kroll. 2,287,315; June 23.
Carrier: *See*—
Article carrier. Bottle lifter and carrier.
Carton. E. C. Freshwaters. 2,287,520; June 23.
Carton, Collapsible. F. A. Sunderhauf and F. W. Broderick. 2,287,648; June 23.
Carton, Exposure meter film. W. C. Lockwood. 2,287,481; June 23.
Case: *See*—
Key case.
Catalyst. R. E. Burk and E. C. Hughes. 2,287,022; June 23.
Catalytic composition. H. Heinemann. 2,287,244; June 23.
Cathode ray signal generator. C. E. Burnett. 2,287,415; June 23.
Cellulosic products and producing the same, Coated. R. W. Ball. 2,287,161; June 23.
Ceramic masses, Production of densely sintered. K. Schusterius. 2,287,538; June 23.
Chair: *See*—
Folding chair.
Changer set, Frequency. C. C. Clymer. 2,287,603; June 23.
Chaser assembly. F. Nell. 2,287,392; June 23.
Chlorates, and more particularly potassium chlorate, Processes for production of alkali metal. S. G. Osborne, R. B. Lowry, and W. S. Beanblossom. 2,287,061; June 23.
Chlorine derivatives of benzyl phenyl ether. H. S. Holt. 2,287,249; June 23.
Chuck, Magnetic. J. Bing and O. Block. 2,287,286; June 23.
Circuit: *See*—
Electric translating circuit
Circuit and method, Relative phase measuring. R. A. Heising. 2,287,174; June 23.
Circuit breaker. E. A. Ileman. 2,287,250; June 23.
Circuit breaker, Electric. G. E. Jansson. 2,287,039; June 23.
Circuit breaker, Electric. C. Thumin and J. D. Gayer. 2,287,578; June 23.
Clamp: *See*—
Cable clamp. Magnetic clamp.
Cleaner: *See*—
Air cleaner. Vacuum cleaner.
Cleaning means for fruits, vegetables, etc. R. Peeples. 2,287,447; June 23.
Clinker cooler. M. A. Eiben. 2,287,300; June 23.
Clock, Dial. F. A. Greenawalt. 2,287,679; June 23.
Closet actuator mechanism, Tilting. E. A. Frederickson. 2,287,169; June 23.
Clutch. K. Miller. 2,287,630–1; June 23.
Coat and making the same, Sheared beaver. A. Fried. 2,287,733; June 23.
Coat, Double breasted. J. Giuseffi. 2,287,680; June 23.
Coating composition and use thereof. L. Pereny and G. A. Melsinger. 2,287,484; June 23.
Coffee maker. A. C. Purpura. 2,287,571; June 23.
Coffee maker. E. A. Wagner. 2,287,580; June 23.
Coffee maker. W. R. Weeks. 2,287,583–6; June 23.
Coin control mechanism. K. C. Bugg. 2,287,292; June 23.
Collapsible tube or receptacle. C. Lindstrom. 2,287,259; June 23.
Compactor. W. B. Bowd and F. L. Carpenter. 2,287,723; June 23.
Composition of matter and using the same. G. C. Porter. 2,287,567; June 23.
Compositions useful as bleaching and oxidizing agents, Stable dry. J. S. Reichert, S. A. McKnelght, and A. A. Elston. 2,287,064; June 23.
Compounds or alloys for coating wells. C. Bowsher. 2,287,227; June 23.
Cone dispenser, Multiple. W. W. Turnbull. 2,287,206; June 23.
Connector: *See*—
Electrical cable connector. Terminal connector.
Electrical connector. Wire connector.
Solderless connector.
Construction for pencil sharpeners, Sizer. E. C. Hoffmann. 2,287,247; June 23.
Container: *See*—
Food container.
Container. C. D. Fallert. 2,287,729; June 23.
Container closure. C. E. McManus, G. B. Cooke, and V. A. Ryan. 2,287,388; June 23.
Container closure, Nonremovable. E. J. Leach. 2,287,625; June 23.
Control apparatus. E. D. Lilja. 2,287,045; June 23.
Control apparatus, Vibration. C. W. Baird. 2,287,406; June 23.
Control of endothermic and exothermic reaction. L. A. Mekler. 2,287,047; June 23.
Control system. J. Weber. 2,287,283; June 23.
Control system, Circuit breaker. D. Journeaux. 2,287,041; June 23.
Control system, Traffic. B. Cooper. 2,287,090; June 23.
Conveyor. R. J. Roland. 2,287,196; June 23.
Cooking device, Food. R. Sardeson. 2,287,330; June 23.
Cooler: *See*—
Clinker cooler. Evaporative cooler.
Copolymerization of terpene hydrocarbons and coal tar hydrocarbons. P. O. Powers. 2,287,535; June 23.
Copper plating. C. J. Werlund, H. L. Benner, and R. R. Bair. 2,287,654; June 23.
Core for immersion heaters. W. H. Wood and O. C. Trautman. 2,287,402; June 23.
Coupling: *See*—
Fluid coupling. Hydraulic coupling.
Gas port coupling. Pipe coupling.
Coupling means. E. A. Robertson. 2,287,135; June 23.
Cover: *See*—
Book cover.
Cover operating mechanism for soaking pit furnaces. H. F. Spencer. 2,287,645; June 23.
Cover securing means for casings. H. L. Bone and K. J. McGowan. 2,287,661; June 23.
Cover structure. W. R. Weeks. 2,287,582; June 23.
Crankshaft and connecting rod connection. E. G. Eby. 2,287,472; June 23.
Crib and play table, Combination. I. C. Rossom. 2,287,452; June 23.
Cubicle assembly. T. F. Anderson. 2,287,079; June 23.
Cup, Handled. H. Schacht. 2,287,644; June 23.
Cutter: *See*—
Pipe cutter.
Cutter and binder for circular knitting machines, Combination. B. C. Redeen. 2,287,131; June 23.
Cutting and loading machine. F. Cartlidge. 2,287,230; June 23.
Cyclohexane, Halogenating. E. C. Britton and R. P. Perkins. 2,287,665; June 23.
Cylinder assembly for firearms, Barrel and gas. J. C. Garand. 2,287,032; June 23.
Damper. T. Fletcher. 2,287,424; June 23.
Damper, Fire. F. D. Merry. 2,287,262; June 23.
Deaerator and feed heater. J. E. Burkhardt and B. Fox. 2,287,600; June 23.
Dental apparatus. A. F. Pieper. 2,287,058; June 23.
Dental casting machine. H. R. Berger. 2,287,508–9; June 23.
Desk and dining table, Combination. A. J. Luebke, Jr. 2,287,626; June 23.
Detection arrangement and negative impedance for same. F. E. Terman. 2,287,280; June 23.
Device for dispensing fluid from containers. A. J. Weiss. 2,287,209; June 23.
Device for irradiating objects with neutrons, especially for depicting them by means of neutron-radiation. H. I. Kallmann. 2,287,620; June 23.
Device for the production of slow neutrons. H. I. Kallmann and E. Kuhn. 2,287,619; June 23.
Dextrine from starch, Production of. A. J. Bulfer and C. C. Gapen. 2,287,599; June 23.
Diamines, Preparing formyl. A. L. Houk. 2,287,523; June 23.
Diaphragm pump. J. F. Malsbary and W. W. Taylor. 2,287,627; June 23.
Dicalcium phosphate, Production of. E. J. Fox. 2,287,758; June 23.
Die: *See*—
Wire coating die.
Die head, Taper. C. A. Reimschissel. 2,287,394; June 23.
Digestor, Rotary. J. E. Steely. 2,287,332; June 23.

Direction finding apparatus. N. E. Klein. 2,287,623; June 23.
Discharge tube. A. Vang. 2,287,541; June 23.
Dishwashing apparatus. W. R. Adams. 2,287,591; June 23.
Dispenser: *See*—
Cone dispenser. Hairpin dispenser.
Dispenser. W. Williams. 2,287,216; June 23.
Dispenser for washing machines, Compound. A. C. Balcunas. 2,287,339; June 23.
Display device. C. W. Dudley. 2,287,418; June 23.
Display holder. J. H. Fox. 2,287,425; June 23.
Disturbance suppression in radio receivers. G. Dallos. 2,287,296; June 23.
Domestic appliance. W. K. Smith. 2,287,204; June 23.
Drape support. R. R. De Ment. 2,287,471; June 23.
Dress form for display stands. M. H. Cass. 2,287,086; June 23.
Drill bit. C. L. Walker. 2,287,714; June 23.
Drill press. H. E. Musselman. 2,287,391; June 23.
Drive mechanism, Lathe. H. H. Logan. 2,287,046; June 23.
Driving means for motors, engines, pumps, and the like. M. J. Farrell. 2,287,673; June 23.
Drydock, Floating. C. O. Knudsen. 2,287,434; June 23.
Dyeing. H. C. Olpin and J. Wright. 2,287,124; June 23.
Dyestuffs, Fluoroarylaminoanthraquinone acid wool. A. J. Wuertz, H. R. Lee, and E. C. Buxbaum. 2,287,590; June 23.
Dynamometer. W. C. Dillon. 2,287,299; June 23.
Electric fixture. P. D. Phillips. 2,287,564; June 23.
Electric induction heating. A. Vang. 2,287,542; June 23.
Electric outlet, Group continuous. H. Friend. 2,287,096; June 23.
Electric stop motion controller for knitting machines. E. Vossen. 2,287,208; June 23.
Electric switch. R. N. Rowe. 2,287,642; June 23.
Electric translating circuit. R. B. Dome. 2,287,514; June 23.
Electrical cable connector. I. F. Matthysse. 2,287,761; June 23.
Electrical communication. W. Aull, Jr. 2,287,160; June 23.
Electrical connector. A. E. Connors. 2,287,232; June 23.
Electrical currents, Method and apparatus for amplifying. G. Slayter. 2,287,749; June 23.
Electrical distribution system. A. A. Togesen and L. E. Fisher. 2,287,502; June 23.
Electrical signals, Elimination of undesired. E. L. C. White. 2,287,334; June 23.
Electromagnetic switch. W. R. Spaulding. 2,287,539; June 23.
Engine: *See*—
Internal combustion engine. Torque controlled engine.
Engine starter drive. J. E. Buxton. 2,287,669; June 23.
Envelopes or bags for gumming the flaps, Arranging and feeding. H. H. Beasley. 2,287,719; June 23.
Ethers of ether alcohols, Aminomethyl. L. H. Bock. 2,287,465; June 23.
Ethers, Preparation of aminomethyl. L. H. Bock. 2,287,464; June 23.
Evaporative cooler. R. S. Stratton. 2,287,147; June 23.
Extracts from semiliquid mixtures, Obtaining clear. M. R. Morgenthaler. 2,287,444; June 23.
Fabric: *See*—
Knitted fabric.
Facsimile system. E. Bruce and W. Herriott. 2,287,413; June 23.
Fastener: *See*—
Awning fastener. Locking slide fastener.
Fastener. H. W. Kost. 2,287,180; June 23.
Fastener. N. J. Poux. 2,287,323; June 23.
Fastener machine, Slide. S. Antonietta. 2,287,507; June 23.
Fastener manufacture, Slide. N. J. Poux. 2,287,324; June 23.
Fastening device. W. R. Eady. 2,287,606; June 23.
Fat leveling system. E. J. Roth. 2,287,396; June 23.
Fender shield and mounting. H. S. Jandus. 2,287,615; June 23.
Fertilizer, Granulation of. J. O. Hardesty, W. H. Ross, and K. D. Jacob. 2,287,759; June 23.
Fill pipe cap. W. B. Clayton. 2,287,750; June 23.
Film-holder for cameras, Shiftable. A. Raynes. 2,287,640; June 23.
Film illustrating surgical technique, Producing motion picture. W. P. Jue. 2,287,568; June 23.
Filter: *See*—
Oil filter.
Filter. H. S. Easton and C. G. Vokes. 2,287,344; June 23.
Fishing rod support. J. O. A. Russell. 2,287,641; June 23.
Flame chamber, Portable boiler. J. W. Adams. 2,287,338; June 23.
Flame machining, Method of and apparatus for. E. P. Jones. 2,287,103; June 23.
Flashlight. O. T. Wood. 2,287,505; June 23.
Flashlight case and support. L. B. Pierce. 2,287,485; June 23.
Flight conveyor. H. W. Hapman. 2,287,378; June 23.
Float valve. W. Taylor. 2,287,150; June 23.
Flow reversal in open hearth furnaces and the like. K. C. McCutcheon and W. E. Hand. 2,287,186; June 23.
Floud coupling. H. F. Patterson. 2,287,532; June 23.
Fluid device. J. E. Whitfield. 2,287,716; June 23.
Folding chair, Portable. H. W. Hawkins. 2,287,614; June 23.
Food container, Sanitary. P. A. Moyer. 2,287,495; June 23.
Footwear, Conductive. L. J. Monahan. 2,287,744; June 23.
Foundry facing. B. P. Wallace. 2,287,153; June 23.
Frame: *See*—
Heddle frame. Printing frame.
Fuel injection device. W. M. Nichols. 2,287,702; June 23.
Fuel products, Motor. T. H. Rogers and V. Voorhees. 2,287,359; June 23.
Fuel pump. D. B. Baker and R. E. Peterson. 2,287,407; June 23.
Fuels by solvent extraction, Production of motor. A. B. Hersberger. 2,287,736; June 23.
Furnace: *See*—
Melting furnace. Recovery and refining furnace.
Muffle furnace.
Furnace wall burner. F. O. Hess. 2,287,245–6; June 23.
Fuse. D. W. Floten. 2,287,553; June 23.
Fuse, Multiple. H. Altschule. 2,287,010; June 23.
Galvanic cell and making same. E. J. McEachron. 2,287,114; June 23.
Game apparatus, Ballistic. R. K. Ostrander. 2,287,266; June 23.
Garment, Foundation. L. J. A. Amyot. 2,287,222; June 23.
Gas mixtures, Method of and apparatus for separating. E. F. Yendall. 2,287,158; June 23.
Gas port coupling. G. R. Zachry. 2,287,076; June 23.
Gauge: *See*—
Tread gauge.
Gear: *See*—
Aircraft landing gear.
Gear for collapsible carriages, Running. S. and N. J. Kroll. 2,287,314; June 23.
Generator: *See*—
All-frequency generator. Steam generator.
Cathode ray signal generator.
Glass, Manufacture of sheet. E. Rolland and C. J. Richter. 2,287,136; June 23.
Glass pressing apparatus. R. P. Cassell. 2,287,512; June 23.
Gluing or gumming articles. H. H. Beasley. 2,287,720; June 23.
Governor, Suction. R. Hufford. 2,287,036; June 23.
Grading device, Electrical stress. T. R. Scott and J. K. Webb. 2,287,201; June 23.
Grandstand, Portable. R. W. Page and J. F. Roney. 2,287,561; June 23.
Grating structure. H. S. Nagin. 2,287,558; June 23.
Gravity ball check device and self-cleaning condenser for smokers' pipes or cigarette holders. 2,287,436; June 23.
Guard, Fingernail. B. T. Powers and C. Paddock. 2,287,062; June 23.
Guide, Paper cutter. J. F. Johnson. 2,287,738; June 23.
Gun, Ball. R. B. Hayter. 2,287,636; June 23.
Gun locking mechanism. B. P. Joyce. 2,287,104; June 23.
Hairpin dispenser. W. Stern. 2,287,146; June 23.
Halogenated compounds, Stabilization of. L. Egerton. 2,287,421; June 23.
Hand brake. J. Wilson. 2,287,588; June 23.
Hand protecting grip. A. Santa Maria and F. Larrondo. 2,287,329; June 23.
Handling device. H. A. Solomon. 2,287,576; June 23.
Hanger: *See*—
Pants and skirt hanger.
Hay rack. T. E. Sikes. 2,287,574; June 23.
Heat exchange unit. G. D. Rogers. 2,287,066; June 23.
Heat exchanger. R. T. Palmer. 2,287,267; June 23.
Heated toilet seat. G. R. Blakesley and F. H. Haas. 2,287,371; June 23.
Heater: *See*—
Deaerator and feed heater. Water heater.
Oil burning heater.
Heater and method of manufacture, Insulated. E. R. Wagenhals and L. R. Shardlow. 2,287,460; June 23.
Heater control apparatus, Automobile. G. J. Fairbanks. 2,287,674; June 23.
Heater for thermal relay. I. W. Cox and E. W. Seeger. 2,287,295; June 23.
Heddle frame. J. J. Kaufmann. 2,287,688; June 23.
Highways, Providing variable capacity. O. K. Jelinek. 2,287,685; June 23.
Hinge. E. S. Persson. 2,287,563; June 23.
Hinge joints, Method and apparatus for making. F. S. Boltz. 2,287,287; June 23.
Hoist—full automatic and semi-automatic, Free chain. F. W. Coffing. 2,287,551; June 23.
Holder: *See*—
Display holder. Score pad holder.
Napkin holder. Ticket holder.
Nut holder. Yarn holder.
Holder and magazine, Slide. A. L. Langenfeld. 2,287,624; June 23.

Homologues of Di-tocopherols. P. Karrer. 2,287,106; June 23.
Honing machine. H. J. Caldwell. 2,287,085; June 23.
Horn, Motor operated. P. D. Phillips. 2,287,566; June 23.
Hub construction. H. W. Alden. 2,287,099; June 23.
Humidifier. F. A. Furlong and N. C. Penfold. 2,287,376; June 23.
Humidifier and control for incubators. C. F. Gedge. 2,287,237; June 23.
Hydraulic coupling. I. C. Popper. 2,287,496; June 23.
Hydraulic well pumping apparatus. L. A. Ringman. 2,287,709; June 23.
Hydraulic wheel drive. W. W. Scofield. 2,287,498; June 23.
Hyrocarbon products, Purifying. A. J. Mueller. 2,287,119; June 23.
Hydrocarbons, Conversion of. F. C. Fahnestock. 2,287,672; June 23.
Hydrocarbons, Fractionation of. A. R. Nevitt. 2,287,355; June 23.
Hyrocarbons in liquid phase and catalysts therefor, Oxidation of low molecular weight. J. J. Owen and P. T. Parker. 2,,287,125; June 23.
Hydrocarbons, Synthesis of. F. Duftschmid, E. Linckh, and F. Winkler. 2,287,092; June 23.
Hydrocarbons, Treating. A. Y. Mottlau. 2,287,118; June 23.
Ice machine. C. E. Langgaard. 2,287,256; June 23.
Ice making apparatus. C. E. Langgaard. 2,287,255; June 23.
Identification device. J. E. Godwin. 2,287,678; June 23.
Indicator: *See*—
Stall warning indicator.
Ignition control. I. E. McCabe. 2,287,386; June 23.
Ignition manifold system, Shielded. E. A. Robertson. 2,287,134; June 23.
Illuminating device for airplane landing fields. G. F. Hardin. 2,287,612; June 23.
Indicating device. J. B. Dickson and H. R. Voorhees. 2,287,605; June 23.
Indicator. T. W. Hallerberg. 2,287,241; June 23.
Inductance device. A. G. Ganz. 2,287,170; June 23.
Inking machine, Sole edge. E. S. Nokes. 2,287,054; June 23.
Inlaying method. L. J. Schneider. 2,287,573; June 23.
Instrument for toothed wheels, Testing. F. W. Fraumann and H. E. Kitchen. 2,287,677; June 23.
Instrument, Wear and hardness testing. R. F. Taber. 2,287,148; June 23.
Interlock for elevator doors. E. W. Fenn. 2,287,751; June 23.
Intermediates for dyestuffs, Manufacture of. H. I. Stryker. 2,287,647; June 23.
Internal combustion engine. J. A. H. Barkelj. 2,287,224; June 23.
Internal combustion engine. O. I. Oyler. 2,287,637; June 23.
Internal combustion engine. D. D. Raze. 2,287,325; June 23.
Internal combustion engine. M. Ware and M. J. Steele. 2,287,399; June 23.
Ironing apparatus. J. W. Steele. 2,287,646; June 23.
Ironing machine stripper. J. Wilkinson. 2,287,656; June 23.
Jar, Hydraulic drilling. M. H. Wolff. 2,287,157; June 23.
Jewelry, Article of. A. Reiter. 2,287,451; June 23.
Joint assembly. O. S. French. 2,287,608; June 23.
Jumpering device. S. R. Smith, Jr. 2,287,499; June 23.
Ketones, Cyanoethylated arylaliphatic. H. A. Bruson. 2,287,510; June 23.
Key. H. J. B. Scharnberg. 2,287,454; June 23.
Keyboard tape perforator. A. H. Buckley. 2,287,291; June 23.
Key case. W. N. Handley. 2,287,521; June 23.
Key pulsing sender for telephone systems. G. C. Hartley and G. D. H. Griffith. 2,287,613; June 23.
Kit, Food. T. G. A. Kader. 2,287,312; June 23.
Kit novelty, Handy. E. R. Morando. 2,287,530; June 23.
Knitted fabric. O. F. Smetana. 2,287,134; June 23.
Knot tying device. W. A. Huffstickler. 2,287,311; June 23.
Labeling machine. G. W. von Hofe. 2,287,579; June 23.
Lace attachment for flat knitting machines. F. Lambach. 2,287,480; June 23.
Lamp: *See*—
Passing and landing lamp. Spot lamp.
Portable lamp.
Latch. R. L. Sayles. 2,287,710; June 23.
Latch mechanism, Refrigerated. S. W. Parsons. 2,287,446; June 23.
Laundry tub cabinet. W. A. Wiskol. 2,287,657; June 23.
Lens mount. I. Cisski. 2,287,468; June 23.
Lens, Multifocal. H. R. Moulton. 2,287,632; June 23.
Light modulating apparatus. G. W. Willard. 2,287,587; June 23.
Light-polarizing bodies, Manufacturing. C. H. Brown. 2,287,598; June 23.
Lighter, Fireball. H. R. Kitts. 2,287,525; June 23.
Lighting device for games, Changeable. H. F. Maurer. 2,287,385; June 23.
Lighting fixture. H. G. Alm. 2,287,221; June 23.
Lighting fixture. W. E. Laidley. 2,287,381; June 23.
Lighting fixture, Electric. P. D. Phillips. 2,287,565; June 23.
Liner, Container closure. J. W. Raynolds. 2,287,063; June 23.
Lining machine. I. Newman. 2,287,356; June 23.
Link. J. O'F. Clark. 2,287,293; June 23.
Lipstick device. J. L. Younghusband. 2,287,366; June 23.
Liquid suction pump, Double. H. E. Rupp. 2,287,397; June 23.
Localizer, Two course. A. G. Kandoian. 2,287,621; June 23.
Lock: *See*—
Alarm lock.
Lock. F. K. Heyer. 2,287,175; June 23.
Lock slider. D. Marinsky. 2,287,482; June 23.
Locking devices for tubular lamps. R. M. Runge. 2,287,276; June 23.
Locking pin. A. M. Niven. 2,287,634; June 23.
Locking slide fastener. R. Hirsch. 2,287,349; June 23.
Locomotive crosshead. T. V. Buckwalter. 2,287,165; June 23.
Loom harness. J. J. Kaufmann. 2,287,687; June 23.
Loop drawing means for fabric looping machines. J. F. Binkley. 2,287,660; June 23.
Lubricant composition comprising organic sulfonamides. W. B. Pings. 2,287,639; June 23.
Lubricator. P. K. Hicks. 2,287,760; June 23.
Machine for cleaning fringes on domestic carpets and oriental rugs. H. Lucassian. 2,287,439; June 23.
Machine for developing blueprints. H. J. Brunk. 2,287,763; June 23.
Machine for planing metal sheets. T. J. Masse. 2,287,187; June 23.
Machine for shaping soles. F. V. Hart. 2,287,242; June 23.
Machinery for making containers. W. F. Newhouse. 2,287,121; June 23.
Magnesium alcoholates, Producing. C. A. Cohen. 2,287,088; June 23.
Magnesium and magnesium base alloys, Surface treatment of. M. A. Miller. 2,287,049–50; June 23.
Magnetic clamp. J. W. Lourie. 2,287,112; June 23.
Manifold for internal combustion engines. A. T. Gregory. 2,287,609; June 23.
Marker, Kelley joint. J. H. Howe. 2,287,310; June 23.
Marking and cutting machine. C. L. Loverch and J. K. Rubin. 2,287,690; June 23.
Match. C. Ellis. 2,287,093; June 23.
Material for making rubber articles. G. Schneider. 2,287,139; June 23.
Material, Manufacture of artificial spinable. A. D'Ambrosio and A. Corbellini. 2,287,028; June 23.
Matrices for the electroforming of foraminous sheets, Producing. E. O. Norris. 2,287,123; June 23.
Mattress. W. W. Gleason and A. J. Schob. 2,287,734; June 23.
Meat slitting machine. J. P. Spang. 2,287,278; June 23.
Mechanically changing characteristics of liquids. H. H. Schmidt. 2,287,067; June 23.
Mechanism for imparting rectilinear reciprocating movement to members such as vehicle windows. J. B. Parsons. 2,287,269; June 23.
Mechanism for rolls and cylinders, Doctor. F. W. Lodding. 2,287,350; June 23.
Melamine, Manufacture of. A. Brookes. 2,287,597; June 23.
Melting furnace, Tubular. P. Dunsheath and F. T. Griffiths. 2,287,671; June 23.
Metal articles, Manufacture of nonporous. W. D. Jones. 2,287,251; June 23.
Metal production. H. A. Brassert. 2,287,663; June 23.
Metal rolling. C. J. Klein. 2,287,380; June 23.
Metals in paints, varnishes, linoleums, etc., Incorporating drying. A. Minich. 2,287,116; June 23.
Metalworking machine. H. G. Kellogg. 2,287,254; June 23.
Meter: *See*—
Parking meter.
Method and apparatus for making dished heads. C. B. Cushwa and T. C. Kane. 2,287,091; June 23.
Method and apparatus for television. P. C. Goldmark. 2,287,033; June 23.
Method of and apparatus for determining the density of material. W. F. Cummins, Jr. 2,287,027; June 23.
Method of and apparatus for eliminating impurities when separating gas mixtures. H. T. Ross. 2,287,137; June 23.
Micrometer gauge for internal threads. T. C. Graham. 2,287,097; June 23.
Microscope and illuminated stand therefor. J. L. Gary. 2,287,764; June 23.
Milking machine. B. H. Anderson. 2,287,506; June 23.
Mill. C. M. Bindner. 2,287,659; June 23.
Mobile unit. F. de L. Brown. 2,287,290; June 23.
Modulating and compensating apparatus. M. W. Baldwin, Jr. 2,287,408; June 23.

Modulation and relay. W. V. B. Roberts. 2,287,065; June 23.
Moisture absorbing apparatus. M. B. Wright, Sr. 2,287,217; June 23.
Mold for use in manufacturing cigars. E. W. Berriman. 2,287,083; June 23.
Mold lubricant and molding rubber articles. E. G. Partridge. 2,287,270; June 23.
Molding apparatus. S. W. Jackson. 2,287,524; June 23.
Molding press. C. Fair and C. B. Gary. 2,287,675; June 23.
Motor control system. R. J. Morawetz. 2,287,745; June 23.
Motor starter. B. W. Jones. 2,287,617; June 23.
Mounting: *See*—
Car axle mounting. Resilient mounting.
Fender shield and mounting.
Mounting means for enclosed electric devices. J. G. Jackson and R. H. Kingdon. 2,287,684; June 23.
Mower, Lawn. H. H. Packwood. 2,287,126; June 23.
Muffle furnace. F. Farmer and J. F. Garrett. 2,287,094; June 23.
Multiple box. H. Paxton. 2,287,194; June 23.
Musical instrument. G. H. Lively. 2,287,183; June 23.
Napkin holder. M. W. Barnes. 2,287,717; June 23.
Navigation, Device for assisting. H. G. Busignies, L. C. Gallant, and P. L. Bour. 2,287,166; June 23.
Nitriles, Hydrogenating. H. P. Young, Jr., and C. W Christensen. 2,287,219; June 23.
Nut holder. P. E. DeFord. 2,287,233; June 23.
Nuts, Making self-locking. E. R. Marchou. 2,287,691; June 23.
Octyl-halo-phenols. L. E. Mills. 2,287,443; June 23.
Oil burner. W. J. Fishel. 2,287,346; June 23.
Oil burning heater. F. G. Suchland. 2,287,361; June 23.
Oil filter. H. A. Dever. 2,287,670; June 23.
Oil filter. A. W. Krogman. 2,287,526; June 23.
Oils, Manufacturing lubricating. E. Lieber. 2,287,110; June 23.
Operating mechanism, Clutch and transmission. H. W. and E. R. Price. 2,287,272; June 23.
Optical projection device. C. R. Erickson. 2,287,345; June 23.
Ores, Concentrating. S. B. McCluskey. 2,287,115; June 23.
Organ, Electronic. W. F. Kannenberg. 2,287,105; June 23.
Oven rack and drip catcher, Combined. R. Howard. 2,287,309; June 23.
Packing head. F. Stone. 2,287,205; June 23.
Packing ring. A. J. Mummert. 2,287,051; June 23.
Pad: *See*—
Truss pad. Warming pad.
Pads, Cleaning. D. P. Israel. 2,287,477; June 23.
Panel, Laminated trim. P. R. Zinser. 2,287,159; June 23.
Pants and skirt hanger. W. H. Glines. 2,287,473; June 23.
Paper, Coating. J. G. Hayden, Jr. 2,287,348; June 23.
Paper feeding mechanism for accounting machines. W. A. Anderson. 2,287,405; June 23.
Paper sheet dispensing carton. W. E. Edmonston. 2,287,420; June 23.
Paraffin removing device. I. A. Miller. 2,287,319; June 23.
Parking meter. J. F. Balisteri. 2,287,547; June 23.
Paste spreader. M. M. and H. H. Cathcard. 2,287,231; June 23.
Pencil. R. Martines. 2,287,384; June 23.
Pencil clip and sharpener, Combined. G. W. Nyberg and C. Johnson. 2,287,703; June 23.
Pencil, Mechanical. C. E. Wehn. 2,287,364; June 23.
Pest control. R. B. Flint and F. H. Kaufert. 2,287,235; June 23.
Phonograph, Automatic. R. S. Cranmer. 2,287,726–7; June 23.
Phonograph, Automatic. F. H. Osborne and C. J. Hall. 2,287,560; June 23.
Phonographic device. E. L. Gallier. 2,287,377; June 23.
Phonographic device. L. H. Ottofy. 2,287,393; June 23.
Phosphate, Preparation of monocalcium. S. Ogburn, Jr. 2,287,264; June 23.
Phosphate, Stabilized dicalcium. H. V. Moss and M. G. Kramer. 2,287,699; June 23.
Photographic apparatus. L. Mandel. 2,287,742; June 23.
Piano. A. M. Tyson. 2,287,503; June 23.
Pickup device. H. A. Hall. 2,287,304; June 23.
Pigment material, Making. R. L. McCleary. 2,287,440; June 23
Pigments, Production of improved. C. M. Dann. 2,287,416; June 23.
Piling, Metal sheet. M. Blumenthal. 2,287,018; June 23.
Pin: *See*—
Locking pin.
Pineapples, Equalizing the color in. B. J. Butler. 2,287,668; June 23.
Pipe coupling. O. E. Simmonds. 2,287,142; June 23.
Pipe cutter, Guided. A. C. Misch. 2,287,354; June 23.
Pipe holding slip. R. B. Kinzbach. 2,287,432; June 23.
Piping system and manifold construction. K. M. Newcum. 2,287,633; June 23.
Piston, Mud pump. E. E. Miller. 2,287,483; June 23.
Piston ring assembly. H. P. Phillips. 2,287,707; June 23.
Pistons of internal combustion engines, Cooling of. F. B. Halford. 2,287,735; June 23.
Plastic material, Manufacturing glass-coated. F. J. Binda. 2,287,546; June 23.
Plow. E. M. Benefiel. 2,287,017; June 23.
Plow, Roof trimming. M. J. Lentsch. 2,287,527; June 23.
Polishing device, Motor driven rotary. J. Conte. 2,287,725; June 23.
Polishing tool. V. P. Wieck. 2,287,545; June 23.
Portable lamp. F. C. Kollath. 2,287,109; June 23.
Post for vertically acting doors, Removable. H. C. Blodgett. 2,287,372; June 23.
Poultry holding and beheading device. T. A. Schuhmacher. 2,287,711; June 23.
Powders, Production of iron. K. Bauer. 2,287,082; June 23.
Power take-off. C. E. Gifford and J. F. Harrison. 2,287,302; June 23.
Power transmission. H. C. Nye. 2,287,559; June 23.
Precooling apparatus. S. Perkins, M. T. Fannaly, and M. B. Wright, Jr. 2,287,705; June 23.
Preparation for promoting the growth of plants. O. Isler. 2,287,102; June 23.
Prepayment mechanisms. G. E. Weston. 2,287,363; June 23.
Press: *See*—
Drill press. Molding press.
Pressing device, Leather goods edge. S. Biawitz. 2,287,409; June 23.
Printing frame. J. T. Campbell. 2,287,228; June 23.
Prison cell doors, System and apparatus for operating. O. S. Field. 2,287,422–3; June 23.
Process and apparatus for manufacturing paper cups. W. E. and S. W. Amberg. 2,287,015; June 23.
Products of the urea-formaldehyde type, Condensation. A. Brookes. 2,287,756; June 23.
Protection device, Flash. C. De K. Bliss. 2,287,162; June 23.
Protective apparatus. A. R. van C. Warrington. 2,287,504; June 23.
Protector for use in hair waving apparatus. E. J. Yven. 2,287,335; June 23.
Pulley. F. M. Ross. 2,287,488; June 23.
Pump: *See*—
Balanced pressure meter-ing pump. Fuel pump.
Liquid suction pump.
Diaphragm pump.
Pump. S. F. Anderson. 2,287,369; June 23.
Pump for engines, Fuel. E. A. Johnston and R. E. Peterson. 2,287,478; June 23.
Pumping apparatus. A. Hollander. 2,287,034; June 23.
Punch. J. K. Duncan. 2,287,168; June 23.
Purifying apparatus, Steam. L. V. Andrews. 2,287,592; June 23.
Rack: *See*—
Hay rack.
Rack and stacker, Combined hay. C. A. Ford, Jr. 2,283,375; June 23.
Radio relaying system. F. H. Kroger. 2,287,044; June 23.
Radio signaling. P. S. Carter. 2,287,550; June 23.
Radio transmission and reception by means of uni-directional modulation. J. Hartz. 2,287,173; June 23.
Raft, Life. E. T. Flynn. 2,287,518; June 23.
Range control in signal transmission systems, Volume. L. G. Abraham. 2,287,077; June 23.
Range, Electric shooting. D. E. Hooker and F. G. Nicolaus. 2,287,429; June 23.
Rat pellagra preventing compounds and their production. J. C. Keresztexy and J. R. Stevens. 2,287,042; June 23.
Razor blade. A. S. Carlson. 2,287,549; June 23.
Razor, Collapsible safety. A. Cuomo. 2,287,493; June 23.
Receptacle: *See*—
Beer comb and cocktail mixer receptacle. Collapsible tube or receptacle.
Record changing apparatus, Automatic. H. C. Habegger. 2,287,098; June 23.
Record, Motion picture. T. Stephen and R. K. Parsell. 2,287,145; June 23.
Record, Phonograph. G. E. Haltenhof. 2,287,240; June 23.
Recording device, Electrical. A. H. Blue. 2,287,463; June 23.
Recording machine, Piece-work. B. Cooper. 2,287,089; June 23.
Recovery and refining furnace, Metal. T. R. Janes. 2,287,038; June 23.
Rectifier. P. T. Farnsworth. 2,287,607; June 23.
Reed of cane, plastic or any other material for clarinets, saxophones, and like musical instruments. M. Maccaferri. 2,287,529; June 23.
Reflector. J. A. Morehead. 2,287,191; June 23.
Refractory, Corrected basic. G. E. Sell. 2,287,455; June 23.
Refrigerating apparatus, Forming. H. C. Johnston. 2,287,178; June 23.

Refrigerating apparatus. M. C. Knight. 2,287,313; June 23.
Refrigerating apparatus. H. F. Smith. 2,287,202–3; June 23.
Refrigerating device for bottled beverages. F. E. Hazard. 2,287,681; June 23.
Refrigerating system. H. A. B. Brown. 2,287,492; June 23.
Refrigeration. A. R. Thomas. 2,287,281; June 23.
Refrigeration and air conditioning, Method of and apparatus for. L. S. Harrison, A. A. Canton, and A. G. Kay. 2,287,172; June 23.
Refrigeration system, Absorption. W. R. McGinnis. 2,287,441; June 23.
Refrigerator cabinet. R. E. King. 2,287,622; June 23.
Regulating device for timepieces. W. Kohlhagen. 2,287,043; June 23.
Regulating variable conditions. F. F. Uehling. 2,287,459; June 23.
Relay, Mercury switch. U. C. Hedin and C. H. Larson. 2,287,306; June 23.
Resilient mounting. H. C. Lord. 2,287,316; June 23.
Resin manufacture. R. W. Martin. 2,287,352; June 23.
Resinous product and manufacture thereof. R. W. Martin. 2,287,351; June 23.
Resins against light, Stabilizing vinyl aromatic. L. A. Matheson and R. F. Boyer. 2,287,188; June 23.
Ring: *See*—
Packing ring.
Rocker arm shaft bracket. J. M. Leake. 2,287,182; June 23.
Rollers, Lubrication of conveyor. T. G. Nyborg. 2,287,357; June 23.
Roof, Floating tank. J. H. Wiggins. 2,287,211; June 23.
Roof for liquid storage apparatus, Floating. J. H. Wiggins. 2,287,213; June 23.
Roof framing support. J. G. Becker. 2,287,370; June 23.
Rubber composition. I. E. Muskat and F. Gage. 2,287,700; June 23.
Rubber, Degrading. A. G. Federman. 2,287,095; June 23.
Rubber, Making closed-cell cellular. R. L. Overstreet. 2,287,193; June 23.
Sadiron rest. W. M. Cissell. 2,287,373; June 23.
Safe, Tabernacle. H. P. Mertel. 2,287,048; June 23.
Sandpaper, Making waterproof. B. J. Oakes. 2,287,060; June 23.
Sash, Storm and screen. C. A. Smith. 2,287,331; June 23.
Saw filing machine. O. Oltmanns. 2,287,265; June 23.
Scale, Weighing. W. B. McMillan. 2,287,695; June 23.
Scissors, Electric. G. A. Gillen. 2,287,347; June 23.
Score pad holder. M. M. Michael. 2,287,390; June 23.
Screen: *See*—
Translucent screen.
Screw driver. A. L. Stowell and F. A. Volz. 2,287,457; June 23.
Scriber. G. H. Callaghan. 2,287,601; June 23.
Seal. R. J. Vedovell. 2,287,207; June 23.
Seal and joint for deep-sea cables. W. M. Bishop. 2,287,163; June 23.
Seal for floating roofs. J. H. Wiggins. 2,287,212; June 23.
Sealing means. R. C. Springston. 2,287,456; June 23.
Seat: *See*—
Heated toilet seat.
Seat for chairs and the like, Adjustable. R. E. Eaton. 2,287,030; June 23.
Securing devices to shafts. O. Duda. 2,287,343; June 23.
Securing means. S. S. Bernstein. 2,287,226; June 23.
Self-anchoring device. W. R. Reynolds. 2,287,395; June 23.
Separator for electric accumulators. E. Haverbeck. 2,287,305; June 23.
Severance structure for manifolding stationery. J. G. Kerr. 2,287,431; June 23.
Shaver. E. C. Brull. 2,287,020; June 23.
Shaver, Power actuated. H. J. Zimmermann. 2,287,337; June 23.
Shaving or hair clipping apparatus. R. E. Jones. 2,287,686; June 23.
Shears, Pruning. C. Habart and J. Lukes. 2,287,303; June 23.
Sheet feeding apparatus. W. E. Schneider, L. C. Williams, and E. J. Yeo. 2,287,140; June 23.
Sheet material, Packaging of. W. L. Owens. 2,287,056; June 23.
Shelf. G. C. Harbison. 2,287,611; June 23.
Shielding apparatus, Electrical. C. A. Hebert and A. J. Wier. 2,287,243; June 23.
Shoe. A. Ruggiero. 2,287,643; June 23.
Shoe and heel construction. J. Palumbo. 2,287,445; June 23.
Shoe, Insulating, waterproof, and cushioning. E. C. Craig. 2,287,026; June 23.
Shoe, Ironer. T. J. Litle, Jr. 2,287,528; June 23.
Shoe press with interchangeable last plate. L. Ippolito. 2,287,616; June 23.
Shoes, Making. T. P. Butler, Jr. 2,287,342; June 23.
Shot, Making. R. L. Dowdell. 2,287,029; June 23.
Shovel, Power. A. A. Waldecker. 2,287,152; June 23.
Shower cabinet. M. H. Duval. 2,287,419; June 23.
Signaling secrecy system. G. M. Phillips. 2,287,127; June 23.
Signaling system, Electric. E. A. H. Bowsher. 2,287,164; June 23.
Signaling system, Railway. C. E. Staples. 2,287,144; June 23.
Silencer. R. B. Bourne. 2,287,412; June 23.
Silicic acid from water, Removing. H. Reichelt and H. Zirngibl. 2,287,486; June 23.
Silicon steel, Producing. V. W. Carpenter and J. M. Jackson. 2,287,467; June 23.
Silicon steel, Producing high permeability. V. W. Carpenter. 2,287,466; June 23.
Skimmer. G. D. White. 2,287,156; June 23.
Slider. M. Volty. 2,287,362; June 23.
Soap, Solid comminuted. V. Mills. 2,287,698; June 23.
Solderless connector. H. Hubbell and J. F. Healy, Jr. 2,287,035; June 23.
Solvent for eggs and applying same, Liquid dirt. R. W. Schofield. 2,287,141; June 23.
Sorting machine. J. F. Dale. 2,287,728; June 23.
Sound recording apparatus. E. W. Kellogg. 2,287,253; June 23.
Spark arrester. H. van Tongeren. 2,287,652; June 23.
Speed control, Wheel. R. E. Price. 2,287,449; June 23.
Speedometer. W. C. Hansen. 2,287,554; June 23.
Spindle, Winding. F. Montalto. 2,287,117; June 23.
Spoon, Shielded. L. P. Weens. 2,287,715; June 23.
Spot lamp, Studio. J. C. Rose. 2,287,328; June 23.
Spraying apparatus. R. W. Tracy. 2,287,458; June 23.
Spreader. F. E. Arndt. 2,287,080; June 23.
Spring structure for cushions, mattresses, or the like. L. A. Young. 2,287,336; June 23.
Spring unit, Preloaded safety. P. B. Reeves and T. P. Knoedler. 2,287,326; June 23.
Stabilizing means for expansion roof tanks, Outside. L. A. Wilkin and C. L. Marner. 2,287,586; June 23.
Stable compositions containing vinylidene chloride polymeric products. L. A. Matheson, R. F. Boyer, and G. H. Coleman. 2,287,189; June 23.
Stall warning indicator. W. C. Rockefeller. 2,287,497; June 23.
Starter switch. C. Chirelstein. 2,287,167; June 23.
Steam boilers, System for safeguarding the operation of. E. Klafstad. 2,287,433; June 23.
Steam generator. J. V. Pyle. 2,287,129; June 23.
Steam production system. C. B. Page. 2,287,057; June 23.
Steel surfaces, Treatment of. J. P. Loud. 2,287,111; June 23.
Stitching machine, Tie. R., V., and H. Naftali. 2,287,120; June 23.
Stopping device for automotive vehicles, Automatic. W. A. Schick. 2,287,199; June 23.
Storage and refrigerating apparatus, Mobile cold. O. U. Zerk. 2,287,404; June 23.
Strand handling apparatus. E. W. Reynolds and D. V. Waters. 2,287,708; June 23.
Structural element. P. B. Attwell. 2,287,081; June 23.
Stud remover. A. P. Stone. 2,287,069; June 23.
Sugar beet machine. J. S. Albin. 2,287,367; June 23.
Sulphides, Separating lead and zinc. A. W. Ralston and E. W. Segebrecht. 2,287,274; June 23.
Sulphur monochloride, Production of. W. C. Klingelhoefer. 2,287,555; June 23.
Supply system, Fuel. R. S. Buck. 2,287,021; June 23.
Support: *See*—
Adjustable support.
Drape support.
Fishing rod support.
Flashlight case and support.
Roof framing support.
Trolley wire support.
Support for heddle bars, Adjustable. L. M. Johnston. 2,287,739; June 23.
Surgical instrument. J. V. Luck. 2,287,260; June 23.
Switch: *See*—
Electric switch.
Electromagnetic switch.
Starter switch.
Switch. W. H. Frank and L. E. Fisher. 2,287,676; June 23.
Switch and record selector, Combination. E. G. Henry. 2,287,632; June 23.
Switch device, Explosionproof. N. A. Tornblom. 2,287,650; June 23.
Table: *See*—
Crib and play table.
Desk and dining table.
Taillight for poles or the like. F. B. Bristow. 2,287,019; June 23.
Takeoff drive, Continuous power. E. F. Stumpf. 2,287,279; June 23.
Tanks, Constructing horizontal cylindrical. W. A. Sandberg. 2,287,197–8; June 23.
Telephone coin collector. F. A. Hoyt. 2,287,176; June 23.
Telephone system. C. E. Lomax. 2,287,383; June 23.
Television receiving system. P. J. Herbst. 2,287,307; June 23.
Tellurian. A. Barbagelata. 2,287,594; June 23.

Temperature control unit. J. E. Woods. 2,287,461; June 23.
Temperature responsive device. J. M. Brian. 2,287,289; June 23.
Temperature responsive device. F. D. Joesting. 2,287,177; June 23.
Terminal connector, Current transformer. J. Rogoff. 2,287,762; June 23.
Thermoplastic materials, Forming and injecting. C. D. Ryder. 2,287,277; June 23.
Thermostats, Mounting room. I. E. McCabe. 2,287,494; June 23
Thiocarbonate, Preparation of potassium. W. R. Bennett. 2,287,285; June 23.
Thread parting mechanism. C. D. Brown. 2,287,666; June 23.
Threading head for machine tools. A. Mueller. 2,287,192; June 23.
Ticket holder, Prize. L. Hopp and W. Dill. 2,287,428; June 23.
Tie-plate punch. W. F. Longfield. 2,287,689; June 23.
Tile binder. F. W. Corkery and R. H. Bailey. 2,287,513; June 23.
Tile, Floor covering. B. J. Walker. 2,287,653; June 23.
Tilling device. C. W. Kelsey. 2,287,479; June 23.
Tissue dispensing device. D. O. Walker. 2,287,581; June 23.
Toggle. P. De Mattia. 2,287,417; June 23.
Toilet accessory. H. Josephs. 2,287,618; June 23.
Tool: *See*—
Polishing tool.
Toothbrush. A. Rickenbacher. 2,287,327; June 23.
Torque controlled engine. S. M. Udale. 2,287,713; June 23.
Torque converter, Hydraulic. A. Y. Dodge. 2,287,374; June 23.
Tower, Mechanical draft cooling. D. B. Dewey. 2,287,297; June 23.
Toy. O. F. Reiter. 2,287,133; June 23.
Toy, Mechanical. A. W. Swenson. 2,287,070; June 23.
Toy typewriter. R. J. Lohr. 2,287,184–5; June 23.
Traction device. W. B. Johnson. 2,287,040; June 23.
Tractor hitch. M. A. Endres. 2,287,516; June 23.
Traffic controlling apparatus, Railway. E. M. Allen and H. S. Young. 2,287,078; June 23.
Traffic controlling apparatus, Railway. R. R. Kemmerer. 2,287,108; June 23.
Trailer. O. W. Olson. 2,287,055; June 23.
Trailer hitch. G. D. Ducharme. 2,287,234; June 23.
Translucent screen. E. H. Land. 2,287,556; June 23.
Transmitting apparatus for communication systems. L. D. Whitelock and R. K. Crooks. 2,287,655; June 23.
Tray for heat treating furnaces. H. Klouman. 2,287,740; June 23.
Tread gauge, Tire. M. Rabb. 2,287,273; June 23.
Trimming machine. W. T. B. Roberts. 2,287,275; June 23.
Trolley wire support. S. S. Matthes. 2,287,692; June 23.
Trolley wire support. S. S. Matthes. 2,287,752; June 23.
Truck, Industrial. C. E. Cochran. 2,287,469; June 23.
Truss pad. C. W. Minnick. 2,287,353; June 23.
Tube: *See*—
Discharge tube.
Tube arrangement, Dissector. W. Dillenburger. 2,287,298; June 23.
Tube closure, Test. H. E. Morton. 2,287,746; June 23.
Two-row topper. V. H. Kiehl. 2,287,379; June 23.
Typewriting machine. W. F. Helmond. 2,287,475; June 23.
Typing machine with a motor drive, Calculating. A. Hediger. 2,287,100; June 23.
Uniform. R. P. Neitzel. 2,287,753; June 23.
Vacuum breaker. J. H. Powers. 2,287,534; June 23.
Vacuum cleaner. D. M. Dow, F. H. Burmeister, and C. R. Heckler. 2,287,515; June 23.
Vacuum cleaner. E. O. H. Hansson. 2,287,474; June 23.
Vacuum sweeper for automobiles. E. Campbell. 2,287,602; June 23.
Valve: *See*—
Float valve.
Vent valve.
Valve. A. J. Koon. 2,287,435; June 23.
Valve. V. S. Walker and L. R. Babb. 2,287,333; June 23.
Valve controlling apparatus. J. G. M. Broden. 2,287,548; June 23.
Valve operating mechanism for concrete pumps. J. E. Conacher. 2,287,470; June 23.
Valve seat grinder. H. G. Miller. 2,287,697; June 23.
Vegetable packing, Fresh. F. J. McCann. 2,287,693; June 23.
Vehicle diaphragm. A. Christianson. 2,287,025; June 23.
Vehicle diaphragm. A. Christianson. 2,287,757; June 23.
Vending machine. H. F. Mayfield. 2,287,387; June 23.
Veneer blocks, Method of and apparatus for treating. E. S. Young. 2,287,403; June 23.
Vent valve. W. A. Yonkers. 2,287,075; June 23.
Ventilating system. A. O. Williams. 2,287,215; June 23.
Ventilator and smoke remover. J. H. McPartland. 2,287,743; June 23.
Vibrating apparatus control. C. W. Baird. 2,287,223; June 23.
Vibrator. W. A. Thomas. 2,287,501; June 23.
Vulcanizing implement. B. V. Mitchell. 2,287,320; June 23.
Warming pad, Electric. H. A. Premack. 2,287,569; June 23.
Warp ladder web, Multiple. G. F. French. 2,287,519; June 23.
Washing apparatus. K. D. McMahan. 2,287,628; June 23.
Washing machine. M. N. Bonsiakos. 2,287,288; June 23.
Water control, Foot operated. L. W. Beebe. 2,287,011; June 23.
Water heater. S. Latanski. 2,287,181; June 23.
Water purification and waste disposal, System of. C. G. Hawley. 2,287,427; June 23.
Water temperature control, Automatic. J. J. Colle and R. F. Atkinson. 2,287,294; June 23.
Wax, Treatment of. S. W. Ferris. 2,287,730; June 23.
Welding method and apparatus. A. Vang. 2,287,543; June 23.
Welding of metals and the uniting of dissimilar metals, Electric. A. Vang. 2,287,544; June 23.
Welding, Surface. A. Vang. 2,287,540; June 23.
Well tubing, Treating. C. H. Browall. 2,287,340; June 23.
Wheat and kindred cereals, Treatment of. E. G. Huzenlaub. 2,287,737; June 23.
Wheel: *See*—
Airplane wheel.
Wheel dresser, Grinding. J. H. Nelson. 2,287,701; June 23.
Winding machine. E. J. Abbott. 2,287,012; June 23.
Window, Locomotive cab. J. W. Richardson. 2,287,195; June 23.
Window structure. J. I. Levyn. 2,287,741; June 23.
Windshield wiper, Fluid pressure controlled. F. Kocher. 2,287,179; June 23.
Wire coating die. I. H. Wilson and A. G. Beaver. 2,287,589; June 23.
Wire connector. G. S. Ruch. 2,287,453; June 23.
Wool, Artificial. V. R. Hardy and J. B. Miles, Jr. 2,287,099; June 23.
Xylophone. E. Sas. 2,287,138; June 23.
Yarn holder. B. R. Anderson. 2,287,368; June 23.
Yarn processing operation. A. L. Ewing. 2,287,517; June 23.
Zein, Production of. L. C. Swallen. 2,287,649; June 23.

CLASSIFICATION OF PATENTS

ISSUED JUNE 23, 1942

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

2— 36: 2,287,222
74: 2,287,753
96: 2,287,680
139: 2,287,258
4— 10: 2,287,169
146: 2,287,419
187: 2,287,657
5— 12: 2,287,596
90: 2,287,552
93: 2,287,452
260: 2,287,336
351: 2,287,734
8— 17: 2,287,696
50: 2,287,124
9— 11: 2,287,518
10— 85: 2,287,214
86: 2,287,691
100: 2,287,394
103: 2,287,392
138: 2,287,192
12— 17: 2,287,054
21: 2,287,242
33: 2,287,616
83.5: 2,287,275
142: 2,287,342
13— 22: 2,287,671
15— 6: 2,287,515
15: 2,287,602
16: 2,287,474
23: 2,287,725
40: 2,287,439
104.04: 2,287,545
137: 2,287,321
139: 2,287,209
176: 2,287,327
219: 2,287,477
269: 2,287,141
16— 114: 2,287,329
142: 2,287,563
17— 12: 2,287,711
25: 2,287,278
18— 8: 2,287,031
21: 2,287,675
26: 2,287,087
47: 2,287,270
47.5: 2,287,282
53: 2,287,193
54: 2,287,099
55: 2,287,277
59: 2,287,324
20— 1: 2,287,061
2: 2,287,229
20: 2,287,372
35: 2,287,622
40.5: 2,287,195
49: 2,287,741
55: 2,287,331
22— 65.1: 2,287,508
2,287,509
93: 2,287,524
189: 2,287,153
23— 1: 2,287,047
50: 2,287,285
85: 2,287,061
108: 2,287,758
109: 2,287,264
2,287,699
157: 2,287,555
165: 2,287,683
172: 2,287,732
232: 2,287,101
277: 2,287,094
24— 8: 2,287,717
75: 2,287,308
85: 2,287,226
132: 2,287,414
170: 2,287,722
180: 2,287,721
205: 2,287,323
24— 205: 2,287,362
205.5: 2,287,349
2,287,462
263: 2,287,432
2,287,453
29— 33: 2,287,091
57: 2,287,074
84: 2,287,263
2,287,287
148.2: 2,287,197
2,287,198
159.3: 2,287,343
30— 9: 2,287,442
43: 2,287,020
2,287,337
2,287,686
47: 2,287,493
228: 2,287,347
252: 2,287,303
326: 2,287,715
351: 2,287,549
31— 82: 2,287,506
32— 22: 2,287,058
33— 41: 2,287,601
172: 2,287,273
179.5: 2,287,677
189: 2,287,072
199: 2,287,097
34— 109: 2,287,300
35— 17: 2,287,568
21: 2,287,678
45: 2,287,594
36— 12: 2,287,643
24.5: 2,287,445
55: 2,287,026
71: 2,287,341
37— 156: 2,287,438
38— 67: 2,287,656
134: 2,287,646
40— 17: 2,287,428
41— 35: 2,287,653
42— 3: 2,287,032
44— 69: 2,287,359
45— 82: 2,287,390
106: 2,287,471
46— 129: 2,287,070
49— 1: 2,287,557
17: 2,287,136
37: 2,287,512
81: 2,287,546
51— 3: 2,287,085
34: Re.22,125
2,287,559
125: 2,287,697
153: 2,287,317
166: 2,287,449
300: 2,287,060
52— 27: 2,287,093
53— 3: 2,287,585
6: 2,287,638
7: 2,287,396
55— 9: 2,287,367
17: 2,287,133
56— 15: 2,287,379
25.4: 2,287,126
312: 2,287,304
57— 69: 2,287,708
58— 125: 2,287,679
59— 87: 2,287,293
60— 54: 2,287,374
2,287,496
2,287,498
2,287,532
61— 60: 2,287,018
62— 5: 2,287,172
2,287,441
24: 2,287,705
72: 2,287,313
91.5: 2,287,492
62— 107: 2,287,255
2,287,256
116: 2,287,404
119: 2,287,281
122: 2,287,137
2,287,158
128: 2,287,681
63— 15: 2,287,451
65— 28: 2,287,156
31: 2,287,582
66— 96: 2,287,480
140: 2,287,131
163: 2,287,208
178: 2,287,143
67— 7: 2,287,525
68— 23: 2,287,288
69— 8: 2,287,409
70— 364: 2,287,175
71— 2: 2,287,102
40: 2,287,759
72— 8: 2,287,210
73— 51: 2,287,148
52: 2,287,043
74— 7: 2,287,669
11: 2,287,279
2,287,302
44: 2,287,472
2,287,673
103: 2,287,604
106: 2,287,417
217: 2,287,046
230.7: 2,287,488
230.17: 2,287,326
242.15: 2,287,450
505: 2,287,588
512: 2,287,011
513: 2,287,704
516: 2,287,037
579: 2,287,608
75— 22: 2,287,251
2,287,663
27: 2,287,073
58: 2,287,712
166: 2,287,227
76— 35: 2,287,265
77— 5: 2,287,391
37: 2,287,354
80— 35: 2,287,283
2,287,380
81— 10: 2,287,233
53: 2,287,069
83— 11: 2,287,659
91: 2,287,029
94: 2,287,440
84— 1.21: 2,287,105
189: 2,287,503
383: 2,287,529
410: 2,287,138
411: 2,287,183
85— 8.5: 2,287,634
23: 2,287,395
36: 2,287,180
88— 19.5: 2,287,145
23: 2,287,481
28.93: 2,287,556
39: 2,287,764
54: 2,287,632
57: 2,287,468
61: 2,287,587
65: 2,287,598
82: 2,287,191
89— 1: 2,287,104
90— 25: 2,287,187
91— 18: 2,287,024
2,287,489
44: 2,287,448
50: 2,287,426
53: 2,287,589
54: 2,287,720
91— 62.5: 2,287,231
92— 18: 2,287,332
74: 2,287,350
93— 36.2: 2,287,015
94— 1: 2,287,685
50: 2,287,723
95— 34: 2,287,271
49: 2,287,640
75: 2,287,763
76: 2,287,228
90: 2,287,742
96— 19: 2,287,200
97— 40: 2,287,479
93: 2,287,017
129: 2,287,527
98— 1: 2,287,262
10: 2,287,215
62: 2,287,743
99— 22: 2,287,444
80: 2,287,737
100: 2,287,668
193: 2,287,693
101— 96: 2,287,089
227: 2,287,690
103— 41: 2,287,407
111: 2,287,034
113: 2,287,397
126: 2,287,318
136: 2,287,369
150: 2,287,627
105— 15: 2,287,025
2,287,757
224.1: 2,287,575
423: 2,287,400
106— 62: 2,287,455
73: 2,287,538
84: 2,287,410
2,287,411
158: 2,287,028
193: 2,287,053
214: 2,287,101
222: 2,287,116
309: 2,287,416
108— 1: 2,287,370
110— 87: 2,287,338
112— 25: 2,287,660
225: 2,287,120
113— 14: 2,287,016
80: 2,287,356
118: 2,287,178
114— 45: 2,287,434
115— 26: 2,287,706
116— 129: 2,287,554
2,287,605
135: 2,287,310
145: 2,287,566
117— 7: 2,287,484
11: 2,287,718
59: 2,287,403
155: 2,287,348
119— 33: 2,287,635
97: 2,287,190
120— 1: 2,287,703
18: 2,287,364
21: 2,287,384
94: 2,287,247
121— 158: 2,287,709
164: 2,287,179
194: 2,287,399
122— 23: 2,287,181
149: 2,287,057
382: 2,287,376
478: 2,287,129
479: 2,287,433
491: 2,287,592
123— 52: 2,287,609
56: 2,287,224
98: 2,287,713
119: 2,287,325
123— 122: 2,287,593
127: 2,287,637
139: 2,287,702
140: 2,287,478
176: 2,287,735
124— 4: 2,287,266
21: 2,287,636
125— 11: 2,287,701
126— 292: 2,287,424
337: 2,287,309
127— 38: 2,287,599
128— 36: 2,287,501
100: 2,287,353
129— 1: 2,287,149
15: 2,287,365
131— 87: 2,287,083
210: 2,287,436
241: 2,287,694
132— 36.1: 2,287,335
79: 2,287,530
88.5: 2,287,062
136— 106: 2,287,114
146: 2,287,305
178: 2,287,132
137— 77: 2,287,340
78: 2,287,633
104: 2,287,150
111: 2,287,534
139: 2,287,548
146: 2,287,470
152: 2,287,036
139— 92: 2,287,687
2,287,688
2,287,739
263: 2,287,666
384: 2,287,519
141— 1: 2,287,500
9: 2,287,628
146— 194: 2,287,014
202: 2,287,447
147— 1: 2,287,658
47: 2,287,121
148— 8: 2,287,049
2,287,050
2,287,111
9: 2,287,103
12: 2,287,466
2,287,467
17: 2,287,651
149— 28: 2,287,733
150— 40: 2,287,521
152— 220: 2,287,040
153— 1: 2,287,507
154— 2.22: 2,287,163
26: 2,287,573
45.9: 2,287,159
52: 2,287,139
155— 128: 2,287,614
179: 2,287,030
156— 15: 2,287,667
158— 7: 2,287,245
2,287,246
28: 2,287,346
2,287,386
91: 2,287,361
161— 15: 2,287,547
16: 2,287,330
164— 36: 2,287,398
44: 2,287,738
68: Re.22,123
2,287,254
110: 2,287,699
112: 2,287,291
124: 2,287,168
166— 1: 2,287,076
18: 2,287,319
167— 30: 2,287,235
71: 2,287,724
171— 97: 2,287,502
171— 123: 2,287,603
242: 2,287,754
2,287,755
172— 36: 2,287,260
239: 2,287,459
2,287,745
240: 2,287,223
2,287,406
245: 2,287,174
173— 259: 2,287,035
2,287,490
269: 2,287,762
328: 2,287,232
2,287,276
334.1: 2,287,096
358: 2,287,564
174— 35: 2,287,135
57: 2,287,684
74: 2,287,134
143: 2,287,201
175— 41: 2,287,421
183: 2,287,664
264: 2,287,744
294: 2,287,041
2,287,504
2,287,617
307: 2,287,243
356: 2,287,170
367: 2,287,286
176— 122: 2,287,463
177— 311: 2,287,497
314: 2,287,382
2,287,572
327: 2,287,241
337: 2,287,090
351: 2,287,160
352: 2,287,164
2,287,612
178— 5.4: 2,287,307
6.6: 2,287,413
7.2: 2,287,033
44: 2,287,280
179— 1: 2,287,077
2,287,401
2,287,655
1.5: 2,287,127
27: 2,287,383
90: 2,287,613
100.3: 2,287,253
171: 2,287,749
171.5: 2,287,514
180— 9.1: 2,287,290
14.5: 2,287,516
181— 57: 2,287,412
183— 2.5: 2,287,600
4: 2,287,217
15: 2,287,629
91: 2,287,652
184— 13: 2,287,204
187— 31: 2,287,751
188— 62: 2,287,662
78: 2,287,023
2,287,239
2,287,261
79.5: 2,287,238
90: 2,287,130
189— 2: 2,287,561
8: 2,287,422
2,287,423
34: 2,287,079
36: 2,287,454
82: 2,287,558
88: 2,287,606
191— 33: 2,287,752
40: 2,287,692
192— .01: 2,287,272
3: 2,287,199
2,287,301
2,287,562

193— 68: 2,287,630
2,287,631
194— 1: 2,287,363
97: 2,287,292
196— 13: 2,287,118
2,287,355
2,287,736
18: 2,287,730
22: 2,287,511
52: 2,287,672
147: 2,287,119
197— 17: 2,287,100
2,287,475
47: 2,287,184
89: 2,287,185
129: 2,287,405
198— 168: 2,287,196
171: 2,287,378
200— 16: 2,287,682
87: 2,287,539
112: 2,287,306
114: 2,287,499
2,287,642
122: 2,287,167
125: 2,287,010
135: 2,287,553
139: 2,287,494
140: 2,287,461
148: 2,287,039
2,287,578
150: 2,287,250
163: 2,287,676
168: 2,287,650
201— 63: 2,287,402
67: 2,287,295
2,287,460
202— 9: 2,287,437
204— 10: 2,287,082
11: 2,287,122
2,287,123
52: 2,287,654
163: 2,287,665
206— 4: 2,287,312
16: 2,287,487
44: 2,287,495
2,287,648
56: 2,287,366
57: 2,287,420
206— 60: 2,287,056
209— 167: 2,287,274
441: 2,287,115
456: 2,287,747
2,287,748
210— 5: 2,287,427
16: 2,287,284
23: 2,287,486
140: 2,287,526
165: 2,287,670
183: 2,287,344
211— 29: 2,287,574
41: 2,287,624
59: 2,287,418
69: 2,287,425
113: 2,287,473
150: 2,287,611
213— 223: 2,287,389
214— 38: 2,287,068
121: 2,287,469
140: 2,287,152
141: 2,287,375
215— 12: 2,287,358
38: 2,287,746
39: 2,287,388
216— 12: 2,287,579
217— 5: 2,287,194
219— 4: 2,287,540
8: 2,287,112
2,287,543
10: 2,287,544
19: 2,287,371
37: 2,287,528
43: 2,287,571
2,287,580
2,287,583
2,287,584
46: 2,287,329
2,287,569
220— 26: 2,287,211
2,287,212
2,287,213
2,287,586
29: 2,287,750
32: 2,287,661
221— 47.1: 2,287,760
60: 2,287,259
2,287,625
221— 119: 2,287,216
223— 68: 2,287,086
224— 36: 2,287,531
229— 4.5: 2,287,644
15: 2,287,610
51: 2,287,520
2,287,729
230— 114: 2,287,595
117: 2,287,462
143: 2,287,716
1.4: 2,287,360
177: 2,287,202
232: 2,287,203
232— 57.5: 2,287,176
235— 61: 2,287,166
82: 2,287,151
88: 2,287,430
236— 12: 2,287,294
15: 2,287,186
44: 2,287,237
2,287,368
64: 2,287,075
68: 2,287,248
74: 2,287,045
237— 1: 2,287,674
240— 3: 2,287,345
8.3: 2,287,019
10.66: 2,287,505
41.35: 2,287,052
47: 2,287,328
54: 2,287,109
78: 2,287,565
81: 2,287,381
106.1: 2,287,221
242— 18: 2,287,012
43.3: 2,287,013
53: 2,287,517
55.5: 2,287,618
118: 2,287,368
130: 2,287,117
244— 103: 2,287,491
246— 34: 2,287,144
63: 2,287,108
134: 2,287,078
248— 1: 2,287,581
5: 2,287,316
14: 2,287,182
42: 2,287,641
248—117.3: 2,287,373
280: 2,287,577
350: 2,287,485
250— 6: 2,287,173
2,287,550
11: 2,287,621
2,287,623
15: 2,287,044
2,287,065
2,287,533
20: 2,287,296
27: 2,287,334
2,287,408
27.5: 2,287,541
2,287,607
33: 2,287,220
2,287,257
36: 2,287,542
41.5: 2,287,322
51: 2,287,620
84: 2,287,619
150: 2,287,298
2,287,415
251— 68: 2,287,435
113: 2,287,333
252— 47: 2,287,639
52: 2,287,110
186: 2,287,064
198: 2,287,244
210: 2,287,022
331: 2,287,567
368: 2,287,698
254— 167: 2,287,551
255— 1.4: 2,287,059
27: 2,287,157
75: 2,287,714
257— 137: 2,287,267
263: 2,287,066
259— 95: 2,287,591
260— 6: Re.22,124
19: 2,287,218
36: 2,287,513
45: 2,287,536
71: 2,287,756
80: 2,287,189
81: 2,287,535
91: 2,287,188
110: 2,287,351
260— 110: 2,287,352
123: 2,287,649
211: 2,287,071
248: 2,287,597
297: 2,287,042
333: 2,287,106
373: 2,287,590
397.7: 2,287,154
2,287,155
413: 2,287,107
449: 2,287,092
451: 2,287,125
452: 2,287,128
465: 2,287,510
530: 2,287,537
570: 2,287,647
570.7: 2,287,465
583: 2,287,219
584: 2,287,464
2,287,523
589: 2,287,522
612: 2,287,249
623: 2,287,443
632: 2,287,088
664: 2,287,225
720: 2,287,095
765: 2,287,700
261— 26: 2,287,297
41: 2,287,570
90: 2,287,021
92: 2,287,147
262— 9: 2,287,230
263— 47: 2,287,740
265— 24: 2,287,084
27: 2,287,695
44: 2,287,027
68: 2,287,299
266— 17: 2,287,476
24: 2,287,038
268— 10: 2,287,645
126: 2,287,269
271— 46: 2,287,719
56: 2,287,140
64: 2,287,728
273— 65: 2,287,171
101.1: 2,287,429
105: 2,287,113
118: 2,287,385
274— 10: 2,287,098
2,287,560
2,287,727
11: 2,287,377
2,287,393
15: 2,287,726
42: 2,287,240
275— 8: 2,287,080
277— 70: 2,287,162
279— 102: 2,287,457
280—11.13: 2,287,252
33.15: 2,287,234
41: 2,287,314
2,287,315
153: 2,287,615
282— 19: 2,287,431
285— 126: 2,287,142
286— 11: 2,287,207
16: 2,287,205
287— 54: 2,287,761
288— 34: 2,287,063
289— 3: 2,287,311
292— 167: 2,287,446
236: 2,287,710
294— 64: 2,287,576
87: 2,287,731
296— 23: 2,287,055
297— 11: 2,287,177
15: 2,287,289
299— 63: 2,287,067
83: 2,287,339
140.1: 2,287,458
301— 6: 2,287,236
105: 2,287,009
308— 3: 2,287,165
187: 2,287,357
309— 4: 2,287,483
23: 2,287,456
45: 2,287,051
2,287,707
311— 2: 2,287,626
312— 37: 2,287,387
44: 2,287,206
64: 2,287,146
193: 2,287,048

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,287,028: 106— 158
2,287,047: 23— 1
2,287,048: 312— 193
2,287,053: 106— 193
2,287,058: 32— 22
2,287,081: 20— 1
2,287,093: 52— 27
2,287,105: 84— 1.21
2,287,114: 136— 106
2,287,116: 106— 222
2,287,139: 154— 52
2,287,141: 15— 269
2,287,158: 62— 122
2,287,162: 277— 70
2,287,163: 154— 2.22
2,287,175: 70— 364
2,287,244: 252— 198
2,287,246: 158— 7
2,287,247: 120— 94
2,287,255: 62— 107
2,287,256: 62— 107
2,287,297: 261— 26
2,287,298: 250— 150
2,287,314: 280— 41
2,287,315: 280— 41
2,287,329: 16— 114
2,287,346: 158— 28
2,287,353: 128— 100
2,287,359: 44— 69
2,287,368: 242— 118
2,287,390: 45— 82
2,287,404: 62— 116
2,287,408: 250— 27
2,287,415: 250— 150
2,287,418: 211— 59
2,287,422: 189— 8
2,287,423: 189— 8
2,287,425: 211— 69
2,287,427: 210— 5
2,287,429: 273—101.1
2,287,436: 131— 210
2,287,476: 266— 17
2,287,501: 128— 36
2,287,528: 219— 37
2,287,535: 260— 81
2,287,538: 106— 73
2,287,545: 15—104.04
2,287,555: 23— 157
2,287,582: 65— 31
2,287,596: 5— 12
2,287,637: 123— 127
2,287,639: 252— 47
2,287,657: 4— 187
2,287,661: 220— 32
2,287,665: 204— 163
2,287,696: 8— 17
2,287,703: 120— 1
2,287,718: 117— 11
2,287,719: 271— 46
2,287,761: 287— 54

U. S. GOVERNMENT PRINTING OFFICE: 1942

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Abbot, Samuel L., doing business as S. L. Abbot Company, San Francisco, Calif. Sodium arsenate. Serial No. 449,948; June 16. Class 6.

Amarine Corporation, The, New York, N. Y. Canned fish. Serial No. 447,900; June 16. Class 46.

American Druggists Syndicate, Inc., Long Island City, N. Y. Vitamin compound. Serial No. 452,235; June 16. Class 6.

American Home Products Corporation, Jersey City, N. J. Medicinal vitamin preparations. Serial No. 452,490; June 16. Class 6.

American Insignia Company, New York, N. Y. Emblematic jewelry and military insignia. Serial No. 450,042; June 16. Class 28.

American Oil Company, Baltimore, Md. Gasoline, lubricating oils and greases. Serial No. 450,990; June 16. Class 15.

Armour and Company, Chicago, Ill. Veterinary medicines. Serial Nos. 452,372–3; June 16. Class 6.

Atlantic Refining Company, The, Philadelphia, Pa. Petroleum sulfonates. Serial No. 452,491; June 16. Class 6.

Atlas Hardware Corp., New York, N. Y. Drills for drilling in metal. Serial No. 451,866; June 16. Class 23.

Atlas Underwear Company, The, Piqua, Ohio. Men's hosiery, sports shirts, shorts, etc. Serial No. 452,385; June 16. Class 39.

Avon Products, Inc., New York, N. Y. Perfumes. Serial No. 452,412; June 16. Class 6.

Balch, Gerald G., doing business as Balch Flavor Co., Pittsburgh, Pa. Ice cream and flavoring concentrate. Serial No. 443,910; June 16. Class 46.

Beech-Nut Packing Company, Canajoharie, N. Y. Cough drops and chewing gum for oral hygiene. Serial No. 434,387; June 16. Class 6.

Berlin, Chas., & Co., Inc., New York, N. Y. Watches, clocks, and parts thereof. Serial No. 452,282; June 16. Class 27.

Biehn, John P., Gregory, S. Dak. Envelopes. Serial No. 452,519; June 16. Class 37.

Bissell Carpet Sweeper Company, Grand Rapids, Mich. Manually operated carpet sweepers. Serial No. 452,158; June 16. Class 23.

Bittner Corporation, The, New York, N. Y. Heat cured, acid proof, sterilizable all rubber sheeting. Serial No. 452,685; June 16. Class 44.

Bolens Products Company, Port Washington, Wis. Chair irons. Serial No. 447,993; June 16. Class 32.

Bolsey, Jacques, New York, N. Y. Cinematographic and photographic apparatus and accessories thereto. Serial Nos. 451,704–5; June 16. Class 26.

Bolsey, Jacques, New York, N. Y. Cinematographic and photographic apparatus and accessories thereto. Serial No. 451,707; June 16. Class 26.

Bolta Company, The, Lawrence, Mass. Serving trays made of plastic materials. Serial No. 450,471; June 16. Class 2.

Borden Company, The, New York, N. Y. Vitamin and mineral fortified preparation. Serial No. 452,142; June 16. Class 46.

Bramson Publishing Company, The, Detroit, Mich. Article appearing monthly in a trade magazine. Serial No. 452,600; June 16. Class 38.

Breuer-Silberberg Corporation, New York, N. Y. Piece goods. Serial No. 451,287; June 16. Class 42.

Cabantous, Antonio, Buenos Aires, Argentina. Leather shoes. Serial No. 448,031; June 16. Class 39.

Callaway Mills, LaGrange, Ga. Industrial wiping towels. Serial No. 447,301; June 16. Class 42.

Cameron Importing Corp., New York, N. Y. Wholly or partly knitted garments and wearing apparel. Serial No. 447,682; June 16. Class 39.

Clover Darby Coal Company, Inc., Closplint, Ky. Coal. Serial No. 452,188; June 16. Class 1.

Cobblers, Inc., Los Angeles, Calif. Women's shoes. Serial No. 452,386; June 16. Class 39.

Cochran, Jacqueline, Roselle, N. J. Cosmetics and beauty preparations. Serial No. 451,963; June 16. Class 6.

Commercial Solvents Corporation, New York, N. Y. Vitamin concentrates. Serial No. 452,603; June 16. Class 6.

Consolidation Coal Company, New York, N. Y. Coal. Serial No. 452,522; June 16. Class 1.

Dante Quinterno & Cia., doing business as Sindicato Dante Quinterno, Buenos Aires, Argentina. Dolls. Serial No. 447,975; June 16. Class 22.

Davis, A., & Sons, Inc., New York, N. Y. Ladies', misses', and juniors' coats and dresses. Serial Nos. 452,496–7; June 16. Class 39.

Denver Broom Co., Denver, Colo. Brooms. Serial No. 452,068; June 16. Class 29.

Douglas, Leo M., Centralia, Wash. Holders for holding and dispersing coins, tax tokens and the like. Serial No. 452,389; June 16. Class 2.

Durallium Products Corp., Chicago, Ill. Dentures, partial dentures and cast restorations. Serial No. 452,244; June 16. Class 44.

Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Photographic chemicals. Serial No. 452,711; June 16. Class 6.

Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Photographic chemicals. Serial No. 452,714; June 16. Class 6.

Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Photographic prints. Serial No. 452,717; June 16. Class 38.

Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Photographic mounting tissue. Serial No. 452,719; June 16. Class 26.

Ecnal Laboratories, Inc., Pasadena, Calif. Dentifrice. Serial No. 452,261; June 16. Class 6.

Electronic Products Manufacturing, Incorporated, Ann Arbor, Mich. Photographic apparatus and equipment. Serial No. 451,007; June 16. Class 26.

Factor, Max. & Co., Los Angeles, Calif. Cosmetics, perfumes, theatrical make-up, and similar preparations. Serial No. 451,969; June 16. Class 6.

Findley, F. G., Co., The, Milwaukee, Wis. Adhesive cement. Serial No. 452,218; June 16. Class 5.

Firestone Tire & Rubber Company, The, Akron, Ohio. Fishing tackle. Serial No. 448,319; June 16. Class 22.

Firestone Tire & Rubber Company, Akron, Ohio. Polishing cloths. Serial No. 452,886; June 16. Class 29.

Fitzpatrick Bros., Inc., Chicago, Ill. Soap, soap flakes, soap chips, etc. Serial No. 420,407; June 16. Class 4.

Foley & Company, Chicago, Ill. Headache tablets. Serial No. 452,526; June 16. Class 6.

Forging and Casting Corporations, The, Ferndale, Mich. Steel. Serial No. 451,492; June 16. Class 14.

Freedom Oil Company, Freedom, Pa. Lubricating oils and greases. Serial No. 451,746; June 16. Class 15.

Gaines Food Co. Inc., Sherburne, N. Y. Dog food. Serial No. 449,834; June 16. Class 46.

General Machinery Corporation, Hamilton, Ohio. Lathes, planers, slotters, etc. Serial No. 452,013; June 16. Class 23.

Gersten Brothers, New York, N. Y. Wardrobes, closets, and chests. Serial No. 449,454; June 16. Class 32.

Goodman and Company, Indianapolis, Ind. Finger rings, necklaces, bracelets, etc. Serial No. 452,164; June 16. Class 28.

Gore, Mary, New York, N. Y. Stencils for shaping finger nails. Serial No. 448,383; June 16. Class 44.

Grove Laboratories, Inc., The, Wilmington, Del., and St. Louis, Mo. Vitamin capsules. Serial Nos. 452,773–4; June 16. Class 6.

Guttman, Joseph, & Bros., New York, N. Y. Dresses, blouses, skirts, etc. Serial No. 452,349; June 16. Class 39.

H-A-B-S Calk Plate Company, Portland, Oreg. Calked metal plates suitable for attachment to shoe soles. Serial No. 452,016; June 16. Class 13.

Haas, John I., Incorporated, Washington, D. C. Hops. Serial No. 438,241; June 16. Class 1.

Happy Company, The, Tulsa, Okla. Radiators and engine jacket water coolers of internal combustion engines. Serial No. 451,107; June 16. Class 34.

Harman Watch Co., Inc., New York, N. Y. Watches, clocks, and parts thereof. Serial No. 452,352; June 16. Class 27.

Haskell, Charles C., & Co., Inc., Richmond, Va. Medicinal preparations. Serial No. 452,192; June 16. Class 6.

Houghton, E. F., & Co., Philadelphia, Pa. Gear lubricants. Serial No. 451,678; June 16. Class 15.

Household Products Co. (See Plee-Zing, Inc.)

Instant Chemical Corporation, New York, N. Y. Chemical preparation for extinguishing fires. Serial No. 452,149; June 16. Class 6.

Interstate Shade Cloth Company, Hoboken, N. J. Shade cloth. Serial No. 452,047; June 16. Class 42.

Kallman, L. R., doing business as L. R. Kallman & Company, Chicago, Ill. Neutral face creams. Serial No. 450,966; June 16. Class 6.

Kearny Manufacturing Company, Inc., Kearny, N. J. Conditioning liquids in the form of chemical preparations for the treatment of textile fibres, etc.; finishing compounds, etc. Serial No. 442,360; June 16. Class 6.

Kewpie Lingerie, Inc., New York, N. Y. Ladies' underwear. Serial No. 443,009; June 16. Class 39.

Knight Brothers Paper Company, Jacksonville, Fla. School supplies. Serial No. 451,843; June 16. Class 37.

Larus & Brother Company, Inc., Richmond, Va. Tobacco. Serial No. 452,508; June 16. Class 17.

Lee, Royal, doing business as Vitamin Products Co., Milwaukee, Wis. Concentrated vitamin preparation. Serial No. 452,450; June 16. Class 6.
Lido Sportswear, Inc., New York, N. Y. Girls', juniors', and misses' coats, suits, skirts, etc. Serial No. 452,130; June 16. Class 39.
Lonsway, Eugene C., Fostoria, Ohio. Blank billheads, blank books, blank legal forms, etc. Serial No. 444,189; June 16. Class 37.
Lord-Mott Company, Inc., Baltimore, Md. Canned vegetables, canned Irish potatoes, canned hominy, etc. Serial No. 452,075; June 16. Class 46.
Lyons-Magnus, Incorporated, San Francisco, Calif. Candied grapefruit peel. Serial No. 451,574; June 16. Class 46.
Majeski, Walter, Brooklyn, N. Y. Clarinets and saxophones. Serial No. 452,479; June 16. Class 36.
Marcellus, Ada, doing business as Toplax Co., New York, N. Y. Laxative. Serial No. 447,142; June 16. Class 6.
Marks, L. V., & Sons Company, The, Cincinnati, Ohio. Women's shoes of leather, fabric and combinations of these materials. Serial No. 451,575; June 16. Class 39.
Maxwell, Samuel K., Jr., Evanston, Ill. Hand lotions. Serial No. 452,359; June 16. Class 6.
McKesson & Robbins, Incorporated, New York, N. Y. Shampoo. Serial Nos. 452,559–60; June 16. Class 6.
Medical Research Laboratories, Inc., Cleveland, Ohio. Medicinal and dental products. Serial No. 451,915; June 16. Class 6.
Mittag & Methudy, Inc., New York, N. Y. Typewriter ribbons and carbon paper. Serial No. 451,602; June 16. Class 11.
Murley, Lloyd & Company, Inc., New York, N. Y. Soap. Serial No. 452,170; June 16. Class 4.
Musebeck Shoe Company, Danville, Ill. Boots and shoes. Serial No. 451,824; June 16. Class 39.
Naco Fertilizer Company, New York, N. Y. Insecticide dust. Serial Nos. 452,022–3; June 16. Class 6.
Neumann, Walter, New York, N. Y. Medicinal preparations. Serial No. 452,311; June 16. Class 6.
New York Girl Coat Co., Inc., New York, N. Y. Coats for women, misses, and children. Serial No. 452,362; June 16. Class 39.
Oldin-Dennis, Inc., New York, N. Y. Clothing. Serial No. 450,283; June 16. Class 39.
Palm, Arnold, M. D., doing business as Palm Pharmacal Co., New York, N. Y. Mistletoe-phenobarbital preparation enriched with choline for hypertension and local vasospasms. Serial No. 452,483; June 16. Class 6.
Parfums Schiaparelli, Inc., New York, N. Y. Compressed cotton discs for use in bathing and washing. Serial No. 449,054; June 16. Class 29.
Parfums Schiaparelli, Inc., New York, N. Y. Compressed cotton discs for use in bathing and washing. Serial No. 449,058; June 16. Class 29.
Parfums Schiaparelli, Inc., New York, N. Y. Compressed cotton discs for use in bathing and washing. Serial No. 449,385; June 16. Class 29.
Parfums Schiaparelli, Inc., New York, N. Y. Compressed cotton discs for use in bathing and washing. Serial No. 452,868; June 16. Class 29.
Paristyle Bags, Inc., New York, N. Y. Ladies' handbags. Serial No. 452,510; June 16. Class 3.
Piedmont Cotton Mills, Egan, Ga. Twine. Serial No. 442,210; June 16. Class 7.
Plee-zing, Inc., doing business as Household Products Co., Chicago, Ill. Razor blades. Serial No. 452,566; June 16. Class 23.
Premo Pharmaceutical Laboratories, Inc., New York, N. Y. Antacid preparation. Serial No. 452,538; June 16. Class 6.
Puritan Chemical Company, Atlanta, Ga. Device containing chemicals for use in absorbing moisture and as a deodorizer. Serial No. 450,378; June 16. Class 6.
Ralston & Gage, New York, N. Y. Brooches, pins, earrings, etc. Serial No. 452,252; June 16. Class 28.
Record of the Month Club for the Music Collector. (See Seligson, George H.)
Record of the Month Club for the Music Collector, Inc. (See Seligson, George H., assignor.)
Revlon Products Corporation, New York, N. Y. Enamel adapted for coating fingernails, and lipsticks. Serial No. 452,080; June 16. Class 6.
Riesgo, Ralph A., New York, N. Y. Fittings, piping, and other conduit connections and parts especially adapted for beverage dispensing apparatus and equipment. Serial No. 451,726; June 16. Class 31.
Rigney, Robert M., Alhambra, Calif. Coffee cream dispensers. Serial No. 452,026; June 16. Class 23.
Rothmoor Corporation, Chicago, Ill. Ladies' coats and suits. Serial No. 452,228; June 16. Class 39.
Round Oak Company, Dowagiac, Mich. Stoves, ranges and furnaces. Serial No. 450,169; June 16. Class 34.
Royce Chemical Company, Carlton Hill, N. J. Synthetic resin suitable for warp sizing and for other textile purposes. Serial No. 452,511; June 16. Class 6.
Saks & Company, New York, N. Y. Women's shoes. Serial No. 452,277; June 16. Class 39.
Schranck & Shaw Incorporated, Milwaukee, Wis. Liqueur. Serial No. 451,246; June 16. Class 49.
Seligson, George H., doing business as Record of the Month Club for the Music Collector, assignor to Record of the Month Club for the Music Collector, Inc., New York, N. Y. Phonograph records. Serial No. 443,057; June 16. Class 36.
Seyopp Corporation, New York, N. Y. Whiskey. Serial No. 447,274; June 16. Class 49.
Shelton, W. G., Company, St. Louis, Mo. Permanent wave cream. Serial No. 442,372; June 16. Class 6.
Sindicato Danto Quinterno. (See Dante Quinterno & Cia.)
Skilsaw, Incorporated, Chicago, Ill. Portable electrically driven drilling machines. Serial No. 450,297; June 16. Class 21.
Smith, L. C., & Corona Typewriters, Inc., Syracuse, N. Y. Carbon paper and typewriter ribbons. Serial No. 452,319; June 16. Class 11.
Smith, Marie E., New York, N. Y. Women's dresses. Serial No. 451,919; June 16. Class 39.
Spatz Bros., Inc., New York, N. Y. Ladies' raincoats. Serial No. 452,486; June 16. Class 39.
Special Formula Corporation, Bloomfield, N. J., and New York, N. Y. Washing and cleaning preparation. Serial No. 451,693; June 16. Class 4.
Spinnerin Yarn Co. Inc., New York, N. Y. Yarn. Serial No. 451,783; June 16. Class 43.
Steiner-Geiss, Incorporated, Freehold, N. J. Pajamas. Serial No. 451,369; June 16. Class 39.
Stewart-Warner Corporation, Chicago, Ill. Refrigerators. Serial No. 452,437; June 16. Class 31.
Sunlite Fruit Juices, Ltd., Hollywood, Calif. Canned fruit juices. Serial No. 452,625; June 16. Class 46.
Teen Frocks, Inc., New York, N. Y. Misses' and girls' combined blouse and slacks. Serial No. 452,365; June 16. Class 39.
Toplax Co. (See Marcellus, Ada.)
Toy Corporation of America, Inc., New York, N. Y. Furniture for children. Serial No. 452,060; June 16. Class 32.
Truval Manufacturers, Inc., New York, N. Y. Men's and young men's outer shirts and neckties. Serial No. 452,206; June 16. Class 39.
United States Rubber Company, New York, N. Y. Foam rubber kneeling pads. Serial No. 452,844; June 16. Class 32.
Vitamin Products Co. (See Lee, Royal.)
Wickbury Ltd., New York, N. Y. Men's and boys' shirts, sweaters, bathing shorts, etc. Serial No. 450,296; June 16. Class 39.
Younghusband, James L., Chicago, Ill. Preparations for the hands and finger nails. Serial No. 450,671; June 16. Class 6.
Young's Merchandising Corporation, New York, N. Y. Men's hats. Serial No. 452,062; June 16. Class 39.
Zaninovich, George, doing business as Zaninovich Bros., Dinuba, Calif. Fresh citrus fruit. Serial No. 446,849; June 16. Class 46.
Zellerbach Paper Company, San Francisco, Calif. Sweeping compound. Serial No. 452,181; June 16. Class 4.

LIST OF REGISTRANTS OF TRADE-MARKS

Allied Chemical & Dye Corporation, New York, N. Y. Chemical preparation for use in the vulcanization of rubber. 395,912; June 16; Serial No. 450,610; published Mar. 31, 1942. Class 6.
Alton Canning Co., Alton, N. Y. Canned fruits and vegetables. 395,940; June 16; Serial No. 451,063; published Apr. 7, 1942. Class 46.
Ambassador Company, New York, N. Y. Piece goods of woolen, worsted, cotton, etc. 395,833; June 16; Serial No. 445,403; published Mar. 24, 1942. Class 42.
American Brass Company, The, Waterbury, Conn. Nonferrous metals and alloys and certain products made therefrom. 160,361; renewed Oct. 24, 1942.
American Spectator, Inc., New York, N. Y. Woolens and worsted piece goods. 395,865; June 16; Serial No. 449,365; published Mar. 24, 1942. Class 42.
American Writing Paper Corporation, Holyoke, Mass. Paper, paperboard, and technical and engineering paper. 395,966; June 16. Class 37.
Amity Leather Products Co., West Bend, Wis. Billfolds. 395,945; June 16; Serial No. 451,158; published Apr. 7, 1942. Class 3.
Asher Shoe Co., Inc., New York, N. Y. Overshoes, rubbers, and arctics. 395,953; June 16. Class 39.
Bamberger, L., & Co., Newark, N. J. Wines. 395,856; June 16; Serial No. 448,815; published Apr. 7, 1942. Class 47.
Bapterosses, F., & Cie., Paris, France. Buttons and beads. 21,086; re-renewed May 10, 1942.
Barbizon Corporation, The, New York, N. Y. Piece goods of nylon and rayon fabrics. 395,887; June 16; Serial No. 450,190; published Mar. 24, 1942. Class 42.
Barnicker, William S., & Co., St. Louis, assignor, by mesne assignments, to Petrolite Corporation, Ltd., Webster Groves, Mo. Chemicals. 161,052; renewed Nov. 7, 1942.

Bates, Hamilton C., doing business as C. J. Bates & Son, Chester, Conn. Crochet hooks. 395,871–4; June 16; Serial Nos. 449,751–4; published Apr. 7, 1942. Class 40.
Bayer Company, Inc., The, New York, N. Y. Medicinal preparations. 160,831–3; renewed Oct. 31, 1942.
Beardsley & Piper Company, The, Chicago, Ill. Machines for making molds for founding. 160,135; renewed Oct. 17, 1942.
Bellgrade Lumber Company, Memphis, Tenn. Lumber. 160,388–9; renewed Oct. 24, 1942.
Belmont Hosiery Company, Belmont, N. H. Hosiery. 161,057; renewed Nov. 7, 1942.
Biberman Bros. Inc., Philadelphia, Pa. Children's dresses, middy blouses, shirt waists, etc. 161,063; renewed Nov. 7, 1942.
Binney & Smith Company, East Orange, N. J., and New York, to Binney & Smith Company, New York, N. Y. Modeling clay. 160,393; renewed Oct. 24, 1942.
Birmingham Ice & Cold Storage Company. (See Southern Frosted Foods, Inc., assignor.)
Borg-Warner Corporation. (See Warner Gear Company, assignor.)
Boyle, A. S., Company, The, Jersey City, N. J. Plastic compound. 395,911; June 16; Serial No. 450,562; published Apr. 7, 1942. Class 50.
Brandt Leather Corporation, Boston, Mass. Leather. 395,876; June 16; Serial No. 449,792; published Apr. 7, 1942. Class 1.
Breck, John H., Inc., Springfield, Mass. Liquid material for cleaning the hair. 395,869; June 16; Serial No. 449,540; published Apr. 7, 1942. Class 6.
Breier's, Marcus, Sons. (See Glasgo Limited.)
Brewer & Company, Inc., Worcester, Mass. Capsules and enteric coated tablets. 395,913; June 16; Serial No. 450,614; published Mar. 31, 1942. Class 6.
Burbank Winery, The. (See McClure, John, Estate, Inc.)
Burneleit, Otto, Bloomfield, N. J. Gin. 395,841; June 16; Serial No. 447,356; published Mar. 31, 1942. Class 49.
Cameron, Wm., & Co. Inc., Waco, Tex. Ironing boards. 155,211; renewed May 23, 1942.
Cameron, Wm., & Co. Inc., Waco, Tex. Screen wire, door stops, transom lifts, etc. 156,198; renewed June 20, 1942.
Cameron, Wm., & Co. Inc., Waco, Tex. Builders' supplies. 160,405; renewed Oct. 24, 1942.
Cantor-Greenspan Co., Inc., New York, N. Y. Spun rayon fabrics. 395,839; June 16; Serial No. 447,225; published Mar. 24, 1942. Class 42.
Catalin Corporation, New York, N. Y. Resinous material. 395,834; June 16; Serial No. 446,261; published Apr. 7, 1942. Class 1.
Celanese Corporation of America, New York, N. Y. Chemical substance or mixture, used in gas filtering media, in the arts, etc. 395,897; June 16; Serial No. 450,392; published Mar. 31, 1942. Class 6.
Celite Products Company, Los Angeles, Calif., and New York, assignor, by mesne assignments, to Johns-Manville Corporation, New York, N. Y. Material for precipitating or separating impurities or other matter from fluids. 154,900; renewed May 16, 1942.
Celotex Corporation, The, Chicago, Ill. Asphalts. 395,898; June 16; Serial No. 450,443; published Apr. 7, 1942. Class 1.
Central Fuel Corporation, Chicago, Ill. Coal. 395,900; June 16; Serial No. 450,444; published Apr. 7, 1942. Class 1.
Central Fuel Corporation, Chicago, Ill. 395,914; June 16; Serial No. 450,615; published Apr. 7, 1942. Class 1.
Cerophyl Laboratories, Inc., Kansas City, Mo. Therapeutic vitamin preparation for pets. 395,893; June 16; Serial No. 450,304; published Mar. 31, 1942. Class 6.
Charm-Kurl Company, St. Paul, Minn. Permanent wave preparation. 395,901; June 16; Serial No. 450,445; published Apr. 7, 1942. Class 6.
Chemex Corporation, New York, N. Y. Coffee makers. 395,925; June 16; Serial No. 450,826; published Apr. 7, 1942. Class 13.
Cheney Brothers, Manchester, Conn., and New York, N. Y. Neckties. 395,934; June 16; Serial No. 450,953; published Apr. 7, 1942. Class 39.
Chicago Mail Order Company, Chicago, Ill. Ladies' and girls' nightgowns, pajamas, housecoats, etc. 395,969; June 16. Class 39.
Cia Licorera Julia. (See Julia, Angel P.)
Cleo Costume Co., Inc., New York, N. Y. Sportswear. 395,961; June 16. Class 39.
Combustion Engineering Company, Inc., Wilmington, Del., and New York, N. Y. Steam generating boilers, boiler furnace water walls utilizing plain tubes, etc., and parts thereof. 395,824; June 16; Serial No. 443,402; published Apr. 7, 1942. Class 34.
Combustion Engineering Company, Inc., New York, N. Y. Steam generating boilers, water cooled furnace walls, pulverizers, fuel burners, etc., and parts thereof. 395,825; June 16; Serial No. 443,403; published Apr. 7, 1942. Class 34.
Cooper-Wilford Beryllium, Ltd., Philadelphia, Pa. Castings, forgings, sheets, etc., of beryllium aluminum alloys. 395,885; June 16; Serial No. 450,088; published Mar. 31, 1942. Class 14.
Coty, Inc., New York, N. Y. Face powder, dusting powder, toilet water, etc. 395,902; June 16; Serial No. 450,447; published Apr. 7, 1942. Class 6.
Coty, Inc., New York, N. Y. Face powder, dusting powder, toilet water, etc. 395,915; June 16; Serial No. 450,620; published Mar. 31, 1942. Class 6.
Coulter Mfg. Co. (See Schmidt, Charles E.)
Crafton Mutual Orchards, Mentone, Calif. Fresh citrus fruit. 395,936; June 16; Serial No. 451,005; published Apr. 7, 1942. Class 46.
Crowther, John, & Sons (Milnsbridge) Limited, Yorkshire, England. Tweeds. 395,877; June 16; Serial No. 449,828; published Mar. 24, 1942. Class 42.
Crystal, Bernie, Inc., assignor to Crystal Juniors, Inc., New York, N. Y. Dresses and sportswear. 395,949; June 16. Class 39.
Darling Valve & Manufacturing Company, Williamsport, Pa. Hydrants. 395,952; June 16. Class 13.
D'Arrigo Brothers Company, San Jose, Calif. Fresh vegetables. 395,889; June 16; Serial No. 450,257; published Apr. 7, 1942. Class 46.
Davis, Chauncey B., doing business as Chauncey B. Davis Manufacturing Co., Jackson, Miss. Hair dressing, pressing oil for use in hair dressing, solid brilliantine, etc. 395,853; June 16; Serial No. 448,189; published Mar. 31, 1942. Class 6.
De Nobili Cigar Co., Inc., Long Island City and New York, to De Nobili Cigar Company, Inc., Long Island City, N. Y. Cigars. 160,446; renewed Oct. 24, 1942.
Desmond's, Los Angeles, Calif. Men's and boys' suits, sport coats, slacks, etc. 395,959; June 16. Class 39.
Dubar Company, to Dubar Company, Baltimore, Md., successor. Lithographic solution. 154,271; renewed Apr. 11, 1942.
Dugas Engineering Corporation, Marinette, Wis. Extinguishing compound for magnesium, potassium, etc., metal fires, etc. 395,946; June 16; Serial No. 451,165; published Apr. 7, 1942. Class 6.
Dumari Textile Co., Inc., New York, N. Y. Rayon fabric in the piece. 395,830; June 16; Serial No. 444,932; published Oct. 28, 1941. Class 42.
Dunhill, Alfred, assignor to Alfred Dunhill of London, Inc., assignor, by mesne assignments, to Alfred Dunhill Limited, London, England. Tobacco, cigars, and cigarettes. 155,951; renewed June 13, 1942.
Durham Products Company, Glendale, Calif. Cleansing, polishing, and scouring powder. 395,957; June 16. Class 4.
Dutchess Underwear Corporation, New York, N. Y. Ladies' underwear, pajamas, nightgowns, etc. 395,950; June 16. Class 39.
Ebbert, Daniel F., Wheeling, W. Va. Chairs and folding beds. 395,923; June 16; Serial No. 450,794; published Apr. 7, 1942. Class 32.
Electric Vacuum Cleaner Company, Inc., to Electric Vacuum Cleaner Company Inc., Cleveland, Ohio. Electric vacuum cleaners and parts thereof. 155,682; renewed June 6, 1942.
Elgin National Watch Company, Chicago, to Elgin National Watch Company, Elgin, Ill. Watches. 21,464; re-renewed July 19, 1942.
Elgin National Watch Company, Chicago, to Elgin National Watch Company, Elgin, Ill. Watches and watch movements. 155,225; renewed May 23, 1942.
El Toro Elastics, Inc., New York, N. Y. Elastic girths and belly bands for animals. 395,862; June 16; Serial No. 449,254; published Apr. 7, 1942. Class 3.
Endicott Johnson Corporation, Endicott, N. Y. Leather boots and shoes. 395,909; June 16; Serial No. 450,538; published Apr. 7, 1942. Class 39.
Ensminger, John T., doing business as The Scintillation Co., Chicago, Ill. Eye lotion. 395,942; June 16; Serial No. 451,104; published Apr. 7, 1942. Class 6.
Esmond Mills, Inc., The, Village of Esmond, Town of Smithfield, R. I. Blankets. 395,836; June 16; Serial No. 446,753; published Mar. 24, 1942. Class 42.
Femfacs Products Co. (See Glantz, Irving R.)
Fleetwings, Incorporated, Brixton, Pa. Hydraulic valves. 395,927; June 16; Serial No. 450,849; published Apr. 7, 1942. Class 13.
Flintkote Company, The. (See Heppes-Nelson Roofing Company, The, assignor.)
Forth, Ronald A., Inc., Boston, Mass. Skins, hides, and leathers. 395,845; June 16; Serial No. 447,632; published Apr. 7, 1942. Class 1.
Fox Head Waukesha Corporation, Waukesha, Wis. Ale. 395,846; June 16; Serial No. 447,804; published Mar. 31, 1942. Class 48.
French Art Silk Creations Co. (See Tardy, Suzanne.)
Fuchs, Jacob, Brooklyn, N. Y. Casein glue. 395,857; June 16; Serial No. 448,824; published Apr. 7, 1942. Class 5.
Geeting & Fromm, Inc., Chicago, Ill. Still and sparkling wines. 395,886; June 16; Serial No. 450,097; published Apr. 7, 1942. Class 47.
General Match Company, The, Reading, Ohio. Matches. 395,880; June 16; Serial No. 449,989; published Apr. 7, 1942. Class 9.
Gilda Audrey Products, Inc., New York, N. Y. Hair creams. 395,941; June 16; Serial No. 451,079; published Apr. 7, 1942. Class 6.
Gilmore Oil Company. (See McConaghy, Anna V., assignor.)

Glantz, Irving R., doing business as Femfacs Products Co., New York, N. Y. Douche powder. 395,858; June 16; Serial No. 448,862; published Feb. 17, 1942. Class 6.

Glasgo Limited, Philadelphia, Pa., assignor to Marcus Breier's Sons, New York, N. Y. Bathing suits and sweaters. 395,829; June 16; Serial No. 444,337; published Aug. 19, 1942. Class 39.

Goldfarb, Samuel J., New York, N. Y. Women's and children's dresses, aprons, slips, etc. 395,962; June 16. Class 39.

Goodall Worsted Company. (See Lesher, Whitman & Co. Inc., assignor.)

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Belts, hose, washers, etc. 395,840; June 16; Serial No. 447,288; published Apr. 7, 1942. Class 35.

Gordon, Hyman, New York, N. Y. Boots, shoes, leggins, etc. 157,078; renewed July 25, 1942.

Great Atlantic and Pacific Tea Company, The, Jersey City, N. J., to The Great Atlantic & Pacific Tea Company, New York, N. Y. Canned sardines. 158,448; renewed Sept. 5, 1942.

Great Atlantic and Pacific Tea Company, The, Jersey City, N. J., to The Great Atlantic & Pacific Tea Company, New York, N. Y. Butter. 159,362; renewed Sept. 26, 1942.

Great Atlantic and Pacific Tea Company, The, Jersey City, N. J., to The Great Atlantic & Pacific Tea Company, New York, N. Y. Beans and pork, and canned fruits. 160,510; renewed Oct. 24, 1942.

Great Atlantic & Pacific Tea Company, The, New York, N. Y. Starch. 395,937; June 16; Serial No. 451,036; published Apr. 7, 1942. Class 6.

Grocery Products Manufacturing Corporation, Union City, N. J., and West Chester, Pa. Canned mushrooms. 395,930; June 16; Serial No. 450,878; published Apr. 7, 1942. Class 46.

H & W Company, The, Newark, N. J. Corsets, corset waists, brassières, etc. 158,971; renewed Sept. 19, 1942.

Harraden, Cora I., Schenectady, N. Y. Candy. 156,681; renewed July 11, 1942.

Heppes-Nelson Roofing Company, The, Chicago, Ill., assignor to The Richardson Company, assignor, by mesne assignments, to The Flintkote Company, New York, N. Y. Construction materials. 155,979; renewed June 13, 1942.

Hille Laboratories, Chicago, Ill. Colloidal gold and colloidal gold compounds for tuberculosis, syphilis, arthritis, etc. 395,817; June 16; Serial No. 440,509; published Mar. 31, 1942. Class 6.

Hoffman-La Roche Chemical Works, The, New York, N. Y., assignor to Hoffman-La Roche, Inc., Nutley, N. J. Medicinal preparation. 160,209; renewed Oct. 17, 1942.

Hollywood Coat Co., New York, N. Y. Ladies' coats. 395,968; June 16; Class 39.

Homix Products, Inc., New York, N. Y. Beverages, fruit juice, sirup and extracts for making the same. 395,854; June 16; Serial No. 448,613; published Apr. 7, 1942. Class 45.

Horner Woolen Mills Company, Eaton Rapids, Mich. Blankets. 395,891; June 16; Serial No. 450,277; published Mar. 24, 1942. Class 42.

Howards Fifth Ave. Inc., New York, N. Y. Textile fabrics. 395,870; June 16; Serial No. 449,609; published Mar. 24, 1942. Class 42.

Huntington Laboratories, Inc., Huntington, Ind. Soap for cleansing wood, linoleum, terrazzo, etc. 395,888; June 16; Serial No. 450,228; published Apr. 7, 1942. Class 4.

Ide Jewelry Co., Inc., New York, N. Y. Watch cases. 395,861; June 16; Serial No. 449,136; published Apr. 7, 1942. Class 27.

Industrial Chemical Products Company, Detroit, Mich. Mixtures with an acid. 395,820; June 16; Serial No. 442,707; published Aug. 12, 1941. Class 6.

Industrial Hosiery Mills. (See Leininger, George H.)

International Shoe Company. (See Plant, Thomas G., Company, assignor.)

Isabelle Beautetics Company. (See Tillson, Royden H.)

Ivy Corset Company, Worcester, Mass. Ladies' underwear. 161,173; renewed Nov. 7, 1942.

Iwasaki, Tetsuo F., doing business as Rancho Brokerage Co., Brawley, Calif. Fresh vegetables. 395,906; June 16; Serial No. 450,508; published Apr. 7, 1942. Class 46.

Johns-Manville Corporation. (See Celite Products Company, assignor.)

Johnson, Le Roy, doing business as L. R. Johnson Company, New York, N. Y. Infants' and children's underwear and sleeping garments. 395,951; June 16. Class 39.

Julia, Angel P., doing business as Cia Licorera Julia, Barrio Obrero, Santurce, P. R. Rum. 395,960; June 16. Class 49.

Kellogg Company, Battle Creek, Mich. Feed ingredient or supplement to be added to animal feeds. 395,867; June 16; Serial No. 449,488; published Apr. 7, 1942. Class 46.

Kellogg, Spencer, and Sons, Inc., Buffalo, N. Y. Flour. 395,822; June 16; Serial No. 443,306; published Apr. 7, 1942. Class 46.

Kelly-Springfield Tire Company, The, Cumberland, Md. Tires. 395,935; June 16; Serial No. 450,967; published Apr. 7, 1942. Class 35.

King, E. & F., & Company, Incorporated, Boston, Mass. China clay and plain and colored bases for dressing, whitening, and fulling compounds. 160,552; renewed Oct. 24, 1942.

Kloster Steel Corporation, Chicago, Ill. Die and tool steel. 395,921; June 16; Serial No. 450,739; published Apr. 7, 1942. Class 14.

Knothe Brothers Co., Inc., New York, N. Y. Pyjamas. 161,191; renewed Nov. 7, 1942.

Kohnstamm, H., & Co., Inc., New York, N. Y. Washing compound for laundry purposes. 395,910; June 16; Serial No. 450,543; published Apr. 7, 1942. Class 4.

Krasdale Foods, Inc. (See Krasne, A., Inc.)

Krasne, A., Inc., now by change of name to Krasdale Foods, Inc., New York, N. Y. Canned fruits, fruit juices, vegetables, etc., olives, wheat flour and apple sauce. 395,811; June 16; Serial No. 438,509; published Apr. 7, 1942. Class 46.

Krauss-Fels-Metzger Company, Brooklyn, N. Y. Underwear. 395,958; June 16. Class 39.

Kuhn, Maurice H., Los Angeles, Calif. Peanut butter spread. 395,890; June 16; Serial No. 450,262; published Apr. 7, 1942. Class 46.

Landers, Frary & Clark, New Britain, Conn. Washing machines. 156,697; renewed July 11, 1942.

Lawther, William J., assignor to W. J. Lawther Mills, Dallas, Tex. Cow feed. 159,928; renewed Oct. 10, 1942.

Leighton Hats, Inc., New York, N. Y. Ladies' hats. 395,816; June 16; Serial No. 440,051; published Apr. 7, 1942. Class 39.

Leininger, George H., doing business as Industrial Hosiery Mills, to Industrial Hosiery Mills, Inc., Mohnton, Pa., successor. Hosiery. 161,200; renewed Nov. 7, 1942.

Lenox, Inc., Boston, Mass. Non-alcoholic beverages. 395,819; June 16; Serial No. 441,579; published Mar. 31, 1942. Class 45.

Leonard, John H., doing business as Leonard Laboratories, Merkel, Tex. Salve. 395,823; June 16; Serial No. 443,366; published Mar. 31, 1942. Class 6.

Lerer, Henry, doing business as Medical Aid Supply Company, New York, N. Y. First aid kits and bandages. 395,894; June 16; Serial No. 450,364; published Apr. 7, 1942. Class 44.

Lesher, Whitman & Co., Inc., New York, N. Y., to Goodall Worsted Company, Sanford, Maine, successor. Draperies and upholsteries. 158,028; renewed Aug. 22, 1942.

Liebert and Obert, Philadelphia, Pa. Beer. 395,895; June 16; Serial No. 450,366; published Apr. 7, 1942. Class 48.

Liebert and Obert, Philadelphia, Pa. Ale. 395,896; June 16; Serial No. 450,367; published Apr. 7, 1942. Class 48.

Lilly, Eli, & Company, The, Indianapolis, Ind., by change of name to Eli Lilly and Company. Medicinal preparation. 158,211; renewed Aug. 29, 1942.

Liska, Rudolph, & Sons, Inc., Chicago, Ill. Whiskies, cordials, liquers and gins. 395,878; June 16; Serial No. 449,865; published Mar. 31, 1942. Class 49.

Lissner, H., Company, Inc., Wilmington, Del., and New York, N. Y. Trousers for men and boys. 395,903; June 16; Serial No. 450,453; published Apr. 7, 1942. Class 39.

Loewenstein Bros. Inc., New York, N. Y. Women's neckwear, collars and cuffs, etc. 395,813; June 16; Serial No. 439,757; published Apr. 7, 1942. Class 39.

Loose-Wiles Biscuit Company, Kansas City, Mo. Candy. 160,906; renewed Oct. 31, 1942.

Lortogs, Inc. Women's, ladies', misses', and girls' slacks. 395,924; June 16; Serial No. 450,804; published Apr. 7, 1942. Class 39.

Lundborg Company, assignor, by mesne assignments, to Lundborg Perfumer, Inc., New York, N. Y. Perfumery. 125,349; renewed May 13, 1939.

Lynch, E. P., Inc., Providence, R. I. Cement hardener in liquid form. 395,818; June 16; Serial No. 442,559; published July 15, 1941. Class 12.

Macy, R. H., & Co., Inc., New York, N. Y. Sheets and pillowcases. 159,030; renewed Sept. 19, 1942.

Mandel and Cohen, Inc., New York, N. Y. Pajamas and night gown for men. 395,831; June 16; Serial No. 444,938; published Nov. 25, 1941. Class 39.

McClure, John, Estate, Inc., doing business as The Burbank Winery, Los Angeles, Calif. Brandy. 395,943; June 16; Serial No. 451,112; published Apr. 7, 1942. Class 49.

McConaghy, Anna V., Washington, D. C., assignor to Gilmore Oil Company, Los Angeles, Calif. Oils and greases and gasoline. 158,741; renewed Sept. 12, 1942.

McKesson & Robbins, Incorporated, Bridgeport and Fairfield, Conn. Preparation for the relief of burns, prickly heat, sunburn, etc. 395,807; June 16; Serial No. 413,589; published Mar. 31, 1942. Class 6.

Medical Aid Supply Company. (See Lerer, Henry.)

Meta-Fold Awning Company, Bluffton, Ohio. Metal awnings. 395,849; June 16; Serial No. 448,005; published Apr. 7, 1942. Class 50.

Metallizing Engineering Company, Inc., Long Island City, N. Y. Carbon steel wires. 395,963; June 16. Class 14.

Metallizing Engineering Company, Inc., Long Island City, N. Y. Copper alloy wires. 395,964; June 16 Class 14.

Metaltex Inc., New York, N. Y. Toilet sets and dresser sets. 395,844; June 16; Serial No. 447,585; published Apr. 7, 1942. Class 40.

Micro Musical Products Corp. (See Schwartz, Jacob.)

Milton, Michael, doing business as Milton Paper Company, assignor to Milton Paper Company, Inc., New York, N. Y. Writing paper. 160,582; renewed Oct. 24, 1942.

Minard Company, Framingham and South Framingham, to Minard Company, Framingham, Mass. Liquid rub. 161,236; renewed Nov. 7, 1942.

Miramar Trading Corporation, Brooklyn, N. Y. Wine vinegar, spices, olives, etc. 395,881; June 16; Serial No. 450,019; published Apr. 7, 1942. Class 46.

Mirrolike Mfg. Co., Long Island City, N. Y. Disinfectants, deodorants, and insecticides. 161,237; renewed Nov. 7, 1942.

Mumm, G. H., 'Champagne and Associates Incorporated (Société Vinicole de Champagne, Successeur), New York, N. Y. Wine. 395,907; June 16; Serial No. 450,511; published Apr. 7, 1942. Class 47.

Nadin, Inc., Los Angeles, Calif. Astringent hygienic powder. 395,944; June 16; Serial No. 451,113; published Apr. 7, 1942. Class 6.

National Aluminate Corporation, Chicago, Ill. Chemical compositions for cellulosic products. 395,917–18; June 16; Serial No. 450,657–8; published Apr. 7, 1942. Class 6.

National Biscuit Company, New York, N. Y. Pastry cups. 395,827; June 16; Serial No. 444,272; published Apr. 7, 1942. Class 46.

National Carbonated Beverage Research Institute, Inc., Atlanta, Ga. Concentrates, syrups, flavors, compounds, and extracts. 395,835; June 16; Serial No. 446,660; published Jan. 6, 1942. Class 45.

National Silver Company, New York, N. Y. Flatware, holloware, and tableware. 395,954–5; June 16. Class 28.

Near's Food Co., Inc., Binghamton, N. Y. Digestive tonics and mineral supplements for animal and poultry. 395,908; June 16; Serial No. 450,515; published Apr. 7, 1942. Class 6.

Nelson, Clarence E. (See Vamos, Alfred, assignor.)

Neuhoff, Fred B., doing business as Fred B. Neuhoff Company, Los Angeles, assignor, by mesne assignments, to Val Vita Food Products, Inc., Fullerton, Calif. Canned fruits and canned vegetables. 159,457; renewed Sept. 26, 1942.

New York Tribune Inc. (See Sun-Herald Corporation, The, assignor.)

Noma Electric Corporation. (See Propp, M., Co., The.)

Old Colonel Distillery, Louisville, Ky. Whiskey. 395,842; June 16; Serial No. 447,401; published Mar. 31, 1942. Class 49.

Old Monk Olive Oil Co., Chicago, Ill. Salad oil and sandwich spread. 395,855; June 16; Serial No. 448,679; published Mar. 10, 1942. Class 46.

Orchard Products Co., Chicago, Ill. Nutritious food in bar form. 395,843; June 16; Serial No. 447,402; published Apr. 7, 1942. Class 46.

Paper Manufacturers Co., Philadelphia, Pa. Telegraph paper tape. 395,884; June 16; Serial No. 450,076; published Apr. 7, 1942. Class 37.

Pappas, Clement, Egg Harbor City, N. J. Canned vegetables. 395,971; June 16. Class 46.

Parke, Davis & Company, Detroit, Mich. Preparation used in the treatment of syphilitic and related types of infections. 395,905; June 16; Serial No. 450,490; published Mar. 31, 1942. Class 6.

Petrolite Corporation, Ltd. (See Barnicker, William S., & Co., assignor.)

Piedmont Shirt Company, Greenville, S. C. Shirts. 395,806; June 16; Serial No. 412,422; published Jan. 10, 1939; Class 39.

Pierce Packing Company. (See Yellowstone Packing Company, assignor.)

Plant, Thomas G., Company, Boston, Mass., assignor, by mesne assignments, to International Shoe Company, St. Louis, Mo. Boots, shoes, and slippers. 161,262; renewed Nov. 7, 1942.

Plough, Betty, doing business as The Seville Company, St. Cloud, Minn. Ointment. 395,809; June 16; Serial No. 436,401; published Apr. 7, 1942. Class 6.

Plunkett, W. H., doing business as Plunkett Chemical Company, Chicago, Ill. Insecticide. 395,919; June 16; Serial No. 450,683; published Apr. 7, 1942. Class 6.

Poindexter, H. T., and Sons Merchandise Company, Kansas City, Mo. Hosiery. 395,928; June 16; Serial No. 450,862; published Apr. 7, 1942. Class 39.

Printz-Biederman Company, The, Cleveland, Ohio. Women's coats and suits. 395,808; June 16; Serial No. 421,670; published Oct. 17, 1939. Class 39.

Proff, M., Co., The, to Noma Electric Corporation, New York, N. Y., successor. Christmas-tree outfits. 152,956; renewed Mar. 7, 1942.

Quinn, K. J., & Co., Inc., Boston, Mass. Shoe and leather finishes. 395,868; June 16; Serial No. 449,500; published Apr. 7, 1942. **Class 4.**

Radiator Specialty Company, Charlotte, N. C., Los Angeles, Calif., and Toronto, Ontario, Canada. Chemical preparation. 395,837; June 16; Serial No. 446,891; published Apr. 7, 1942. Class 6.

Red Spot Paint & Varnish Co., Inc., Evansville, Ind. Protective coating. 395,860; June 16; Serial No. 449,020; published Apr. 7, 1942. Class 16.

Republic Steel Corporation, Cleveland, Ohio. Ferrous metal sheet, strip, and plate. 395,814; June 16; Serial No. 439,878; published Mar. 31, 1942. Class 14.

Richardson Company, The. (See Heppes-Nelson Roofing Company, The, assignor.)

Robb-Ross Co., assignor to Tolerton & Warfield Company, Sioux City, Iowa. Extracts, peanut butter, vinegar, etc. 152,970; renewed Mar. 7, 1942.

Robert Company, The. (See Smith, Clifford R.)

Röhm & Haas Company, Philadelphia, Pa. Chemicals used in the manufacture of lubricants and hydraulic fluids. 395,898; June 16; Serial No. 450,405; published Apr. 7, 1942. Class 6.

Röhm & Haas Company, Philadelphia, Pa. Chemical composition to be used as an emulsifying, spreading, sticking, etc. agent. 395,922; June 16; Serial No. 450,744; published Mar. 31, 1942. Class 6.

Ro-Nat Sportwear, Inc., New York, N. Y. Sweaters and sweater ensembles. 395,956; June 16. Class 39.

Roth, Chester H., Co., Inc., New York, N. Y. Hosiery. 395,815; June 16; Serial No. 439,879; published Apr. 7, 1942. Class 39.

Rubinstein, Helena, Inc., New York, N. Y. Lipsticks. 395,931; June 16; Serial No. 450,921; published Apr. 7, 1942. Class 6.

Rush, Fred W., doing business as Fred W. Rush Co., Los Angeles, Calif. Fresh vegetables. 395,932–3; June 16; Serial Nos. 450,942–3; published Apr. 7, 1942. Class 46.

San Fernando Citrus Association, San Fernando, Calif. Fresh citrus fruit. 395,847; June 16; Serial No. 447,956; published Apr. 7, 1942. Class 46.

Sauer, Hilma O., Parma, Ohio. Pile pomade. 395,947; June 16; Serial No. 451,191; published Apr. 7, 1942. Class 6.

Schering Corporation, Bloomfield, N. J. Medicinal preparation. 395,904; June 16; Serial No. 450,461; published Apr. 7, 1942. Class 6.

Schmidt, Charles E., doing business as Coulter Mfg. Co., Philadelphia, Pa. Shoe holders. 160,659–60; renewed Oct. 24, 1942.

Schmidt, Jacob, Brewing Co., St. Paul, Minn. Beer. 395,866; June 16; Serial No. 449,467; published Mar. 31, 1942. Class 48.

Schwartz, Jacob, to Micro Musical Products Corp., New York, N. Y., successor. Musical instruments and parts thereof. 158,295; renewed Aug. 29, 1942.

Scintillation Co., The. (See Ensminger, John T.)

Searle, G. D., & Co., Chicago, Ill. Antispasmodic. 395,828; June 16; Serial No. 444,315; published Aug. 5, 1941. Class 6.

Sears, Roebuck and Co., Chicago, Ill. Tooth paste. 157,384; renewed Aug. 1, 1942.

Select Sportswear, Inc., New York, N. Y. Ladies' and misses' knitted sport sweaters and two piece knitted dresses. 395,832; June 16; Serial No. 445,301; published Apr. 7, 1942. Class 39.

Seville Company, The. (See Plough, Betty.)

Siegel, Jacob, Company, Philadelphia, Pa. Men's topcoats and overcoats. 395,920; June 16; Serial No. 450,698; published Apr. 7, 1942. Class 39.

Smith, Clifford R., doing business as The Robert Company, Atlanta, Ga. Chenille fabrics. 395,859; June 16; Serial No. 448,924; published Mar. 24, 1942. Class 42.

Southern Frosted Foods, Inc., assignor to Birmingham Ice & Cold Storage Company, Birmingham, Ala. Frozen fruits. 395,821; June 16; Serial No. 443,305; published Apr. 7, 1942. Class 46.

Stanford Fruit Growers, Inc., Lake Alfred, Fla. Fresh citrus fruits. 395,892; June 16; Serial No. 450,291; published Apr. 7, 1942. Class 46.

Stanford Fruit Growers, Inc., Lake Alfred, Fla. Fresh citrus fruits. 395,965; June 16. Class 46.

Sta-Rite Ginnie-Lou, Inc., Shelbyville, Ill. Fingernail wax. 395,826; June 16; Serial No. 443,959; published Apr. 7, 1942. Class 6.

Stein, A., & Company, Chicago, Ill. Household aprons, girdle supporters, and baby pants. 161,308; renewed Nov. 7, 1942.

Steinert, M., & Sons Co., assignor, by mesne assignments, to M. Steinert & Sons Company, Inc., Boston, Mass. Player pianos, piano players, pianos, and organs. 155,288; renewed May 23, 1942.

Strobl, Alexander, doing business as Stroblite Company, New York, N. Y. Lacquers, paints, and paint pigments. 395,863; June 16; Serial No. 449,302; published Apr. 7, 1942. Class 16.

Strobl, Alexander, doing business as WTP., New York, N. Y. Lacquers, paints, and paint pigments. 395,864; June 16; Serial No. 449,303; published Apr. 7, 1942. Class 16.

Stroblite Company. (See Strobl, Alexander.)

Sucro-Blanc, Inc., New York, N. Y. Thermally activated bauxite for adsorptive decolorization. 395,938; June 16; Serial No. 451,041; published Apr. 7, 1942. Class 6.

Sun-Herald Corporation, The, assignor to New York Tribune Inc., New York, N. Y. Cartoon serials. 159,546; renewed Sept. 26, 1942.
Swartz, Thomas J. (See Thomas Textile Company, assignor.)
Tardy, Suzanne, doing business as French Art Silk Creations Co., New York, N. Y. Perfumes. 395,939; June 16; Serial No. 451,061; published Apr. 7, 1942. Class 6.
Taylor Instrument Companies, Rochester, N. Y. Altimeters. 395,875; June 16; Serial No. 449,789; published Apr. 7, 1942. Class 26.
Thomas Textile Company, assignor to Thomas J. Swartz, assignors, by mesne assignments, to Thomas Textile Co., Inc., New York, N. Y. Babies' diapers. 160,311–12; renewed Oct. 17, 1942.
Tillson, Royden H., doing business as Isabelle Beautetics Company, St. Louis, Mo. Cosmetic and toilet creams and lotions. 395,810; June 16; Serial No. 438,493; published Mar. 31, 1942. Class 6.
Tolerton & Warfield Company. (See Robb-Ross Co., assignor.)
Tropical Chair Co., Inc., New York, N. Y. Chairs, and footrests therefor. 395,948; June 16. Class 32.
Ulmann, Bernhard, Co. Inc., New York, N. Y. Yarns. 395,916; June 16; Serial No. 450,634; published Mar. 31, 1942. Class 43.
Undertakers Supply Company, Chicago, Ill. Embalming fluid. 395,838; June 16; Serial No. 447,034; published Mar. 31, 1942. Class 6.
United Mills, Inc., Mount Gilead, N. C. Ladies' underwear, slips, bed jackets, etc. 395,967; June 16. Class 39.
United States Playing Card Company, The, Cincinnati, Ohio. Playing cards. 160,713; renewed Oct. 24, 1942.
Val Vita Food Products, Inc. (See Neuhoff, Fred B., assignor.)
Valentine Laboratories, Inc., Chicago, Ill. Tooth paste. 395,879; June 16; Serial No. 449,946; published Mar. 31, 1942. Class 6.
Vamos, Alfred, assignor to Clarence E. Nelson, New York, N. Y. Leather. 395,851–2; June 16; Serial Nos. 448,175–6; published Apr. 7, 1942. Class 1.
Vapo-Cresolene Company, The, Stanley, N. J., and New York, N. Y., to The Vapo-Cresolene Company, New York, N. Y. Medical compounds. 21,647; re-renewed Aug. 16, 1942.
Vitabuoy Products Limited, London, England. Life saving coats, jackets, waistcoats, vest, etc. 395,848; June 16; Serial No. 447,964; published Mar. 31, 1942. Class 39.
WTP. (See Strobl, Alexander.)
Walsh, Florence Z., Hyde Park, N. Y. Sportswear. 395,970; June 16. Class 39.
Warner Gear Company, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Transmissions, differentials, clutches, etc. 155,113; renewed May 16.
Washington Co-Operative Egg and Poultry Association, Seattle, Wash. Dog and cat food. 395,882–3; June 16. Serial Nos. 450,038–9; published Apr. 7, 1942. Class 46.
Watkins, R. L., Company, The, Cleveland, Ohio, to The R. L. Watkins Company, New York, N. Y. Preparation for improving the appearance and facilitating the dressing of the hair. 160,998; renewed Oct. 31, 1942.
Weitz, S., & Co., Inc., Cleveland, Ohio. Men's topcoats, overcoats, and suits. 395,929; June 16; Serial No. 450,871; published Apr. 7, 1942. Class 39.
Wenz, Frank, doing business as Frank Wenz Company, Chicago, Ill. Mineral saltlick stone for livestock. 395,926; June 16; Serial No. 450,842; published Apr. 7, 1942. Class 6.
White, Morris, Fashions, Inc., New York, N. Y. Ladies', misses', and children's handbags. 395,972; June 16. Class 3.
Wilbur & Williams Company, The, Boston, Mass. Paint. 395,850; June 16; Serial No. 448,023; published Apr. 7, 1942. Class 16.
Wolf Brothers, Philadelphia, Pa. Bags and envelopes made of paper. 395,812; June 16; Serial No. 438,747; published Apr. 7, 1942. Class 2.
Yellowstone Packing Company, to Pierce Packing Company, Billings, Mont., successor. Meats, scrapple, chile con carne, etc. 159,601; renewed Sept. 26, 1942.
Zinsser, Wm., & Co. Inc., New York, N. Y. Varnish. 158,570–1; renewed Sept. 5, 1942.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Asphalts. Celotex Corporation. 395,899; June 16; Serial No. 450,443; published Apr. 7, 1942.
Bags and envelopes made of paper. Wolf Brothers. 395,812; June 16; Serial No. 438,747; published Apr. 7, 1942.
Clay and plain and colored bases for dressing, whitening, and fulling compounds, China. E. & F. King & Company. 160,552; renewed Oct. 24, 1942.
Clay, Modeling. Binney & Smith Company. 160,393; renewed Oct. 24, 1942.
Coal. Central Fuel Corporation. 395,900; June 16; Serial No. 450,444; published Apr. 7, 1942.
Coal. Central Fuel Corporation. 395,914; June 16; Serial No. 450,615; published Apr. 7, 1942.
Leather. Brandt Leather Corporation. 395,876; June 16; Serial No. 449,792; published Apr. 7, 1942.
Leather. A. Vamos. 395,851–2; June 16; Serial Nos. 448,175–6; published Apr. 7, 1942.
Resinous material. Catalin Corporation. 395,834; June 16; Serial No. 446,261; published Apr. 7, 1942.
Skins, hides, and leathers. Ronald A. Forth, Inc. 395,845; June 16; Serial No. 447,632; published Apr. 7, 1942.

CLASS 3

Billfolds. Amity Leather Products Co. 395,945; June 16; Serial No. 451,158; published Apr. 7, 1942.
Girths and belly bands for animals, Elastic. El Toro Elastics, Inc. 395,862; June 16; Serial No. 449,254; published Apr. 7, 1942.
Handbags, Ladies', Misses', and children's. Morris White Fashions, Inc. 395,972; June 16.

CLASS 4

Cleansing, polishing, and scouring powder. Durham Products Company. 395,957; June 16.
Finishes, Shoe and leather. K. J. Quinn & Co. 395,868; June 16; Serial No. 449,500; published Apr. 7, 1942.
Soap for cleansing wood, linoleum, terrazzo, etc. Huntington Laboratories, Inc. 395,888; June 16; Serial No. 450,228; published Apr. 7, 1942.
Washing compound for laundry purposes. H. Kohnstamm & Co., Inc. 395,910; June 16; Serial No. 450,543; published Apr. 7, 1942.

CLASS 5

Glue, Casein. J. Fuchs. 395,857; June 16; Serial No. 448,824; published Apr. 7, 1942.

CLASS 6

Antispasmodic. G. D. Searle & Co. 395,828; June 16; Serial No. 444,315; published Aug. 5, 1941.
Bauxite for adsorptive decolorization, Thermally activated. Sucro-Blanc, Inc. 395,938; June 16; Serial No. 451,041; published Apr. 7, 1942.
Capsules and enteric coated tablets. Brewer & Company. 395,913; June 16; Serial No. 450,614; published Mar. 31, 1942.
Chemical composition to be used as an emulsifying, spreading, sticking, etc. Röhm & Haas Company. 395,922; June 16; Serial No. 450,744; published Mar. 31, 1942.
Chemical compositions for cellulosic compositions. National Aluminate Corporation. 395,917–8; June 16; Serial Nos. 450,657–8; published Apr. 7, 1942.
Chemical preparation. Radiator Specialty Company. 395,837; June 16; Serial No. 446,891; published Apr. 7, 1942.
Chemical preparation for use in the vulcanization of rubber. Allied Chemical & Dye Corporation. 395,912; June 16; Serial No. 450,610; published Mar. 31, 1942.
Chemical substance or mixture, used in gas filtering media, in the arts, etc. Celanese Corporation of America. 395,897; June 16; Serial No. 450,392; published Mar. 31, 1942.
Chemicals. W. S. Barnicker & Co. 161,052; renewed Nov. 7, 1942.
Chemicals used in the manufacture of lubricants and hydraulic fluids. Rohm & Haas Company. 395,898; June 16; Serial No. 450,405; published Apr. 7, 1942.
Compound for magnesium, potassium, etc., metal fires, etc., Extinguishing. Dugas Engineering Corporation. 395,946; June 16; Serial No. 451,165; published Aug. 7, 1942.
Compounds for tuberculosis, syphilis, arthritis, etc., Colloidal gold and colloidal gold. Hille Laboratories. 395,817; June 16; Serial No. 440,509; published Mar. 31, 1942.
Creams and lotions, Cosmetic and toilet. R. H. Tillson. 395,810; June 16; Serial No. 438,493; published Mar. 31, 1942.
Creams, Hair. Gilda Audrey Products, Inc. 395,941; June 16; Serial No. 451,079; published Apr. 7, 1942.
Disinfectants, deodorants, and insecticides. Mirrolike Mfg. Co. 161,237; renewed Nov. 7, 1942.
Embalming fluid. Undertakers Supply Company. 395,838; June 16; Serial No. 447,034; published Mar. 31, 1942.
Hair dressing, pressing oil for use in hair dressing, solid brilliantine, etc. C. B. Davis. 395,853; June 16; Serial No. 448,189; published Mar. 31, 1942.
Insecticide. W. H. Plunkett. 395,919; June 16; Serial No. 450,683; published Apr. 7, 1942.
Lipsticks. Helena Rubinstein, Inc. 395,931; June 16; Serial No. 450,921; published Apr. 7, 1942.

Lithographic solution. Dubar Company. 154,271; renewed Apr. 11, 1942.
Lotion, Eye. J. T. Ensminger. 395,942; June 16; Serial No. 451,104; published Apr. 7, 1942.
Material for cleaning the hair, Liquid. John H. Breck, Inc. 395,869; June 16; Serial No. 449,540; published Apr. 7, 1942.
Medical compounds. Vapo-Cresolene Company. 21,647; re-renewed Aug. 16, 1942.
Medicinal preparation. Hoffman-La Roche Chemical Works. 160,209; renewed Oct. 17, 1942.
Medicinal preparation. Eli Lilly & Company. 158,211; renewed Aug. 29, 1942.
Medicinal preparation. Schering Corporation. 395,904; June 16; Serial No. 450,461; published Apr. 7, 1942.
Medicinal preparations. Bayer Company. 160,831–3; renewed Oct. 31, 1942.
Mineral saltlick stone for livestock. F. Wenz. 395,926; June 16; Serial No. 450,842; published Apr. 7, 1942.
Mixtures with an acid. Industrial Chemical Producers Company. 395,820; June 16; Serial No. 442,707; published Aug. 12, 1941.
Ointment. B. Plough. 395,809; June 16; Serial No. 436,401; published Apr. 7, 1942.
Paste, Tooth. Sears, Roebuck and Co. 157,384; renewed Aug. 1, 1942.
Paste, Tooth. Valentine Laboratories, Inc. 395,879; June 16; Serial No. 449,946; published Mar. 31, 1942.
Perfumery. Lundborg Company. 125,349; renewed May 13, 1939.
Perfumes. S. Tardy. 395,939; June 16; Serial No. 451,061; published Apr. 7, 1942.
Permanent wave preparation. Charm-Kurl Company. 395,901; June 16; Serial No. 450,445; published Apr. 7, 1942.
Pomade, Pile. H. O. Sauer. 395,947; June 16; Serial No. 451,191; published Apr. 7, 1942.
Powder, Astringent hygienic. Nadin, Inc. 395,944; June 16; Serial No. 451,113; published Apr. 7, 1942.
Powder, Douche. I. R. Glantz. 395,858; June 16; Serial No. 448,862; published Feb. 17, 1942.
Powder, dusting powder, toilet water, etc., Face. Coty, Inc. 395,902; June 16; Serial No. 450,447; published Apr. 7, 1942.
Powder, dusting powder, toilet water, etc., Face. Coty, Inc. 395,915; June 16; Serial No. 450,620; published Mar. 31, 1942.
Preparation for improving the appearance and facilitating the dressing of the hair. R. L. Watkins Company. 160,998; renewed Oct. 31, 1942.
Preparation for the relief of burns, prickly heat, sunburn, etc. McKesson & Robbins, Incorporated. 395,807; June 16; Serial No. 413,589; published Mar. 31, 1942.
Preparation used in the treatment of syphilitic and related types of infection. Parke, Davis & Company. 395,905; June 16; Serial No. 450,490; published Mar. 31, 1942.
Rub, Liquid. Minard Company. 161,236; renewed Nov. 7, 1942.
Salve. J. H. Leonard. 395,823; June 16; Serial No. 443,366; published Mar. 31, 1942.
Starch. Great Atlantic & Pacific Tea Company. 395,937; June 16; Serial No. 451,036; published Apr. 7, 1942.
Tonics and mineral supplements for animal and poultry, Digestive. Near's Food Co. 395,908; June 16; Serial No. 450,515; published Apr. 7, 1942.
Vitamin preparation used as a food supplement for pets, Therapeutic. Cerophyl Laboratories, Inc. 395,893; June 16; Serial No. 450,304; published Mar. 31, 1942.
Wax, Fingernail. Sta-Rite Ginnie-Lou, Inc. 395,826; June 16; Serial No. 443,959; published Apr. 7, 1942.

CLASS 9

Matches. General Match Company. 395,880; June 16; Serial No. 449,989; published Apr. 7, 1942.

CLASS 12

Cement hardener. E. P. Lynch Inc. 395,818; June 16; Serial No. 442,559; published July 15, 1941.
Lumber. Bellgrade Lumber Company. 160,388–9; renewed Oct. 24, 1942.
Materials, Construction. Heppes-Nelson Roofing Company. 155,979; renewed June 13, 1942.
Supplies, Builders'. Wm. Cameron & Co. 160,405; renewed Oct. 24, 1942.

CLASS 13

Coffee makers. Chemex Corporation. 395,925; June 16; Serial No. 450,826; published Apr. 7, 1942.
Holders, Shoe. C. E. Schmidt. 160,659–60; renewed Oct. 24, 1942.
Hydrants. Darling Valve & Manufacturing Company. 395,592; June 16.
Valves, Hydraulic. Fleetwings, Incorporated. 395,927; June 16; Serial No. 450,849; published Apr. 7, 1942.
Wire, door stops, transom lifts, etc., Screen. Wm. Cameron & Co. Inc. 156,198; renewed June 20, 1942.

CLASS 14

Castings, forgings, sheets, etc., of beryllium aluminum alloys. Cooper-Wilford Beryllium, Ltd. 395,885; June 16; Serial No. 450,088; published Mar. 31, 1942.
Metal sheet, strip, and plate, Ferrous. Republic Steel Corporation. 395,814; June 16; Serial No. 439,878; published Mar. 31, 1942.
Metals and alloys and certain products made therefrom, Nonferrous. American Brass Company. 160,361; renewed Oct. 24, 1942.
Steel, Die and tool. Kloster Steel Corporation. 395,921; June 16; Serial No. 450,739; published Apr. 7, 1942.
Wires, Carbon steel. Metallizing Engineering Company. 395,963; June 16.
Wires, Copper alloy. Metallizing Engineering Company. 395,964; June 16.

CLASS 15

Oils and greases and gasoline. A. V. McConaghy. 158,741; renewed Sept. 12, 1942.

CLASS 16

Lacquers, paints, and paint pigments. A. Strobl. 395,863; June 16; Serial No. 449,302; published Apr. 7, 1942.
Lacquers, paints, and paint pigments. A. Strobl. 395,864; June 16; Serial No. 449,303; published Apr. 7, 1942.
Paint. Wilbur & Williams Company. 395,850; June 16; Serial No. 448,023; published Apr. 7, 1942.
Protective coating. Red Sport Paint & Varnish Co. 395,860; June 16; Serial No. 449,020; published Apr. 7, 1942.
Varnish. Wm. Zinsser & Co. Inc. 158,570–1; renewed Sept. 5, 1942.

CLASS 17

Cigars. De Nobili Cigar Company. 160,446; renewed Oct. 24, 1942.
Tobacco, cigars, and cigarettes. A. Dunhill. 155,951; renewed June 13, 1942.

CLASS 21

Christmas-tree outfits. M. Propp Co. 152,956; renewed Mar. 7, 1942.
Vacuum cleaners and parts thereof, Electric. Electric Vacuum Cleaners Company. 155,682; renewed June 6, 1942.

CLASS 22

Cards, Playing. United States Playing Card Company. 160,713; renewed Oct. 24, 1942.

CLASS 23

Machines for making molds for founding. Beardsley & Piper Company. 160,135; renewed Oct. 17, 1942.
Transmissions, differentials, clutches, etc. Warner Gear Company. 155,113; renewed May 16, 1942.

CLASS 24

Ironing boards. Wm. Cameron & Co. Inc. 155,211; renewed May 23, 1942.
Washing machines. Landers, Frary & Clark. 156,697; renewed July 11, 1942.

CLASS 26

Altimeters. Taylor Instrument Companies. 395,875; June 16; Serial No. 449,789; published Apr. 7, 1942.

CLASS 27

Watch cases. Ide Jewelry Co. 395,861; June 16; Serial No. 449,136; published Apr. 7, 1942.
Watches. Elgin National Watch Company. 21,464; re-renewed July 19, 1942.
Watches and watch movements. Elgin National Watch Company. 155,225; renewed May 23, 1942.

CLASS 28

Flatware, hollowware, and tableware. National Silver Company. 395,954–5; June 16.

CLASS 31

Material for precipitating or separating impurities or other matter from fluids. Celite Products Company. 154,900; renewed May 16, 1942.

CLASS 32

Chairs and folding beds. D. F. Ebbert. 395,923; June 16; Serial No. 450,794; published Apr. 7, 1942.
Chairs, and footrests therefor. Tropical Chair Co. 395,948; June 16.

CLASS 34

Boilers, boiler furnace water walls utilizing plain tubes, etc., and parts thereof, Steam generating. Combustion Engineering Company. 395,824; June 16; Serial No. 443,402; published Apr. 7, 1942.
Boilers, water cooled furnace walls, pulverizers, fuel burners, etc., and parts thereof, Steam generating. Combustion Engineering Company. 395,825; June 16; Serial No. 443,403; published Apr. 7, 1942.

CLASS 35

Belts, hose, washers, etc. B. F. Goodrich Company. 395,840; June 16; Serial No. 447,288; published Apr. 7, 1942.

Tape, Telegraph paper. Paper Manufacturers Co. 395,884; June 16; Serial No. 450,076; published Apr. 7, 1942.
Tires. Kelly-Springfield Tire Company. 395,935; June 16; Serial No. 450,967; published Apr. 7, 1942.

CLASS 36

Musical instruments and parts thereof. J. Schwartz. 158,295; renewed Aug. 29, 1942.
Pianos, piano players, pianos, and organs, Player. M. Steinert & Sons Co. 155,288; renewed May 23, 1942.

CLASS 37

Paper, paperboard, and technical and engineering paper. American Wiring Paper Corporation. 395,966; June 16.
Paper, Writing. M. Milton. 160,582; renewed Oct. 24, 1942.

CLASS 38

Cartoon serials. Sun-Herald Corporation. 159,546; renewed Sept. 26, 1942.

CLASS 39

Aprons, girdle supporters, and baby pants, Household. A. Stein & Company. 161,308; renewed Nov. 7, 1942.
Boots and shoes, Leather. Endicott Johnson Corporation. 395,909; June 16; Serial No. 450,538; published Apr. 7, 1942.
Boots, shoes, and slippers. T. G. Plant Company. 161,262; renewed Nov. 7, 1942.
Boots, shoes, leggins, etc. H. Gordon. 157,078; renewed July 25, 1942.
Coats and suits, Women's. Printz-Biederman Company. 395,808; June 16; Serial No. 421,670; published Oct. 17, 1939.
Coats, jackets, waistcoats, vests, etc., Life saving. Vitabuoy Products Limited. 395,848; June 16; Serial No. 447,964; published Mar. 31, 1942.
Coats, Ladies'. Hollywood Coat Co. 395,968; June 16.
Corsets, corset waists, brassières, etc. H & W Company. 158,971; renewed Sept. 19, 1942.
Diapers, Babies'. Thomas Textile Company. 160,311–12; renewed Oct. 17, 1942.
Dresses and sportswear. Bernie Crystal, Inc. 395,949; June 16.
Dresses, aprons, slips, etc., Women's and children's. S. J. Goldfarb. 395,962; June 16.
Dresses, middy clouses, shirt waists, etc., Children's. Biberman Bros. 161,063; renewed Nov. 7, 1942.
Hats, Ladies'. Leighton Hats, Inc. 395,816; June 16; Serial No. 440,051; published Apr. 7, 1942.
Hosiery. Belmont Hosiery Company. 161,057; renewed Nov. 7, 1942.
Hosiery. G. H. Leininger. 161,200; renewed Nov. 7, 1942.
Hosiery. H. T. Poindexter and Sons Merchandise Company. 395,928; June 16; Serial No. 450,862; published Apr. 7, 1942.
Hosiery. Chester H. Roth Co. 395,815; June 16; Serial No. 439,879; published Apr. 7, 1942.
Neckties. Cheney Brothers. 395,934; June 16. Serial No. 450,953; published Apr. 7, 1942.
Neckwear, collars and cuffs, etc., Women's. Loewenstein Bros. Inc. 395,813; June 16; Serial No. 439,757; published Apr. 7, 1942.
Nightgowns, pajamas, housecoats, etc., Ladies' and girls'. Chicago Mail Order Company. 395,969; June 16.
Overshoes, rubbers and arctics. Asher Shoe Co. 395,953; June 16.
Pajamas and night gown for men. Mandel and Cohen, Inc. 395,831; June 16; Serial No. 444,938; published Nov. 25, 1941.
Pyjamas. Knothe Brothers Co. 161,191; renewed Nov. 7, 1942.
Sheets and pillowcases. R. H. Macy & Co. 159,030; renewed Sept. 19, 1942.
Shirts. Piedmont Shirt Company. 395,806; June 16; Serial No. 412,422; published Jan. 10, 1939.
Slacks, Women's, ladies', misses', and girls'. Lortogs, Inc. 395,924; June 16; Serial No. 450,804; published Apr. 7, 1942.
Sportswear. Cleo Costume Co. 395,961; June 16.
Sportswear. F. Z. Walsh. 395,970; June 16.
Suits and sweaters, Bathing. Glasgo Limited. 395,829; June 16; Serial No. 444,337; published Aug. 19, 1941.
Suits, sport coats, slacks, etc., Men's and boys'. Desmond's. 395,959; June 16.
Sweaters and sweater ensembles. Ro-Nat Sportwear, Inc. 395,956; June 16.
Sweaters and two piece knitted dresses, Ladies' and misses' knitted sport. Select Sportswear, Inc. 395,832; June 16; Serial No. 445,301; published Apr. 7, 1942.
Topcoats and overcoats, Men's. Jacob Siegel Company. 395,920; June 16; Serial No. 450,698; published Apr. 7, 1942.
Topcoats, overcoats, and suits, Men's. S. Weltz & Co. 395,929; June 16; Serial No. 450,871; published Apr. 7, 1942.
Trousers for men and boys. H. Lissner Company. 395,903; June 16; Serial No. 450,453; published Apr. 7, 1942.
Underwear. Krauss-Fels-Metzger Company. 395,958; June 16.
Underwear and sleeping garments, Infants' and children's. L. R. Johnson. 395,951; June 16.
Underwear, Ladies'. Ivy Corset Company. 161,173; renewed Nov. 7, 1942.
Underwear, pajamas, nightgowns, etc., Ladies'. Dutchess Underwear Corporation. 395,950; June 16.
Underwear, slips, bed jackets, etc., Ladies'. United Mills, Inc. 395,967; June 16.

CLASS 40

Buttons and beads. F. Bapterosses & Cie. 21,086; renewed May 10, 1942.
Crochet hooks. H. C. Bates. 395,871–4; June 16; Serial Nos. 449,751–4; published Apr. 7, 1942.
Toilet sets and dresser sets. Metaltex Inc. 395,844; June 16; Serial No. 447,585; published Apr. 7, 1942.

CLASS 42

Blankets. Esmond Mills, Inc. 395,836; June 16; Serial No. 446,753; published Mar. 24, 1942.
Blankets. Horner Woolen Mills Company. 395,891; June 16; Serial No. 450,277; published Mar. 24, 1942.
Chenille fabrics. C. R. Smith. 395,859; June 16; Serial No. 448,924; published Mar. 24, 1942.
Draperies and upholsteries. Lesher, Whitman & Co. 158,028; renewed Aug. 22, 1942.
Fabrics in the piece, Rayon. Dumari Textile Co. 395,830; June 16; Serial No. 444,932; published Oct. 28, 1941.
Piece goods of nylon and rayon fabrics. Barbizon Corporation. 395,887; June 16; Serial No. 450,190; published Mar. 24, 1942.
Piece goods of woolen, worsted, cotton, etc. Ambassador Company. 395,833; June 16; Serial No. 445,403; published Mar. 24, 1942.
Rayon fabrics, Spun. Cantor-Greenspan Co. 395,839; June 16; Serial No. 447,225; published Mar. 24, 1942.
Textile fabrics. Howards Fifth Ave. Inc. 395,870; June 16; Serial No. 449,609; published Mar. 24, 1942.
Tweeds. John Crowther & Sons (Milnsbridge) Limited. 395,877; June 16; Serial No. 449,828; published Mar. 24, 1942.
Woolens and worsteds piece goods. American Spectator, Inc. 395,865; June 16; Serial No. 449,365; published Mar. 24, 1942.

CLASS 43

Yarns. Bernhard Ulmann Co. Inc. 395,916; June 16; Serial No. 450,634; published Mar. 31, 1942.

CLASS 44

Kits and bandages, First aid. H. Lerer. 395,894; June 16; Serial No. 450,364; published Apr. 7, 1942.

CLASS 45

Beverages. Lenox, Inc. 395,819; June 16; Serial No. 441,579; published Mar. 31, 1942.
Beverages, fruit juice, sirup and extracts for making the same. Homix Products, Inc. 395,854; June 16; Serial No. 448,613; published Apr. 7, 1942.
Concentrates, syrups, flavors, etc. National Carbonated Beverage Research Institute, Inc. 395,835; June 16; Serial No. 446,660; published Jan. 6, 1942.

CLASS 46

Beans and pork, and canned fruits. Great Atlantic and Pacific Tea Company. 160,510; renewed Oct. 24, 1942.
Butter. Great Atlantic and Pacific Tea Company. 159,362; renewed Sept. 26, 1942.
Candy. C. I. Harraden. 156,681; renewed July 11, 1942.
Candy. Loose-Wiles Biscuit Company. 160,906; renewed Oct. 31, 1942.
Canned fruits and canned vegetables. F. B. Neuhoff. 159,457; renewed Sept. 26, 1942.
Canned fruits and vegetables. Alton Canning Co. 395,940; June 16; Serial No. 451,063; published Apr. 7, 1942.
Canned fruits, fruit juices, vegetables, etc., olives, wheat flour, and apple sauce. A. Krasne, Inc. 395,811; June 16; Serial No. 438,509; published Apr. 7, 1942.
Canned mushrooms. Grocery Products Manufacturing Corporation. 395,930; June 16; Serial No. 450,878; published Apr. 7, 1942.
Canned sardines. Great Atlantic and Pacific Tea Company. 158,448; renewed Sept. 55, 1942.
Canned vegetables. C. Pappas. 395,971; June 16.
Extracts, peanut butter, vinegar, etc. Robb-Ross Co. 152,970; renewed Mar. 7, 1942.
Feed, Cow. W. J. Lawther. 159,928; renewed Oct. 10, 1942.
Feed ingredient or supplement to be added to animal feeds. Kellogg Company. 395,867; June 16; Serial No. 449,488; published Apr. 7, 1942.
Flour. Spencer Kellogg and Sons, Inc. 395,822; June 16; Serial No. 443,306; published Apr. 7, 1942.
Food, Dog and cat. Washington Co-Operative Egg Poultry Association. 395,882–3; June 16; Serial Nos. 450,038–9; published Apr. 7, 1942.
Food in bar form, Nutritious. Orchard Products Co. 395,843; June 16; Serial No. 447,402; published Apr. 7, 1942.

Fruit, Fresh citrus. Crafton Mutual Orchards. 395,936; June 16; Serial No. 451,005; published Apr. 5, 1942.
Fruit, Fresh citrus. San Fernando Citrus Association. 395,847; June 16; Serial No. 447,956; published Apr. 7, 1942.
Fruits, Fresh citrus. Stanford Fruit Growers, Inc. 395,892; June 16; Serial No. 450,291; published Apr. 7, 1942.
Fruits, Fresh citrus. Stanford Fruit Growers, Inc. 395,965; June 16.
Fruits, Frozen. Southern Frosted Foods, Inc. 395,821; June 16; Serial No. 443,305; published Apr. 7, 1942.
Meats, scrapple, chile con carne, etc. Yellowstone Packing Company. 159,601; renewed Sept. 26, 1942.
Pastry cups. National Biscuit Company. 395,827; June 16; Serial No. 444,272; published Apr. 7, 1942.
Peanut butter spread. M. H. Kuhn. 395,890; June 16; Serial No. 450,262; published Apr. 7, 1942.
Salad oil and sandwich spread. Old Monk Olive Oil Co. 395,855; June 16; Serial No. 448,679; published Mar. 10, 1942.
Vegetables, Fresh. D'Arrigo Brothers Company. 395,889; June 16; Serial No. 450,257; published Apr. 7, 1942.
Vegetables, Fresh. T. F. Iwasaki 395,906; June 16; Serial No. 450,508; published Apr 7, 1942.
Vegetables, Fresh. F. W. Rush. 395,932–3; June 16; Serial Nos. 450,942–3; published Apr. 7, 1942.
Vinegar, spices, olives, etc., Wine. Miramar Trading Corporation. 395,881; June 16; Serial No. 450,019; published Apr. 7, 1942.

CLASS 47

Wine. G. H. Mumm Champagne and Associates Incorporated (Société Vinicole de Champagen, Successeur). 395,907; June 16; Serial No. 450,511; published Apr. 7, 1942.
Wines. L. Bamberger & Co. 395,856; June 16; Serial No. 448,815; published Apr. 7, 1942.
Wines, Still and sparkling. Geeting & Fromm, Inc. 395,886; June 16; Serial No. 450,097; published Apr. 7, 1942.

CLASS 48

Ale. Fox Head Waukesha Corporation. 395,846; June 16; Serial No. 447,804; published Mar. 31, 1942.
Ale. Liebert and Obert. 395,896; June 16; Serial No. 450,367; published Apr. 7, 1942.
Beer. Liebert and Obert. 395,895; June 16; Serial No. 450,366; published Apr. 7, 1942.
Beer. Jacob Schmidt Brewing Co. 395,866; June 16; Serial No. 449,467; published Mar. 31, 1942.

CLASS 49

Brandy. J. McClure Estate, Inc. 395,943; June 16; Serial No. 451,112; published Apr. 7, 1942.
Gin. O. Burneleit. 395,841; June 16; Serial No. 447,356; published Mar. 31, 1942.
Rum. A. P. Julia. 395,960; June 16.
Whiskey. Old Colonel Distillery. 395,842; June 16; Serial No. 447,401; published Mar. 31, 1942.
Whiskies, cordials, liqueurs and gins. Rudolph Liska & Sons, Inc. 395,878; June 16; Serial No. 449,865; published Mar. 31, 1942.

CLASS 50

Awnings, Metal. Meta-Fold Awning Company. 395,849; June 16; Serial No. 448,005; published Apr. 7, 1942.
Plastic compound. A. S. Boyle Company. 395,911; June 16; Serial No. 450,562; published Apr. 7, 1942.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 16TH DAY OF JUNE, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Blanc, Samuel O., Des Moines, Iowa. Drain cleaner. Re. 22,113; June 16.

Borzym, Alexander, Detroit, Mich., assignor to The Yoder Company, Cleveland, Ohio. Cutoff mechanism. Re. 22,114; June 16.

Goodman Manufacturing Company. (See Sloane, William W., assignor.)

Hazeltine Corporation. (See Herbst, Philip J., assignor.)

Herbst, Philip J., Fort Wayne, Ind., assignor to Hazeltine Corporation. Light-valve projection apparatus for television signal-reproducing systems. Re. 22,115; June 16.

Janette, John T., Kenilworth, assignor to Janette Manufacturing Company, Chicago, Ill. Seal for shafts. Re. 22,116; June 16.

Janette Manufacturing Company. (See Janette, John T., assignor.)

Janney, Thomas A., Garfield, A. G. Johnson, Magna, and C. M. Nokes, Salt Lake City, Utah. Recovering molybdenite by froth flotation. Re. 22,117; June 16.

Johnson, Alpha G. (See Janney, T. A., Johnson, and Nokes.)

Lohrey, Carl N., assignor to The National Cash Register Company, Dayton, Ohio. Porous metallic type. Re. 22,118; June 16.

Lyon, George A., Allenhurst, N. J. Ornamental member fastening means. Re. 22,119; June 16.

Lyon, George A., Allenhurst, N. J. Wheel cover. Re. 22,120; June 16.

National Cash Register Company, The. (See Lohrey, Carl N., assignor.)

Nokes, Charles M. (See Janney, T. A., Johnson, and Nokes.)

S & W Hydraulic Tool Company, The. (See Warren, C. F., and Smith, assignors.)

Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Drive mechanism for shaker conveyers. Re. 22,121; June 16.

Smith, William R. (See Warren, C. F., and Smith.)

Warren, Charles F., Milwaukee, Wis., and William R. Smith, assignors to The S & W Hydraulic Tool Company, Wynne, Ark. Power tool. Re. 22,122; June 16.

Yoder Company, The. (See Borzym, Alexander, assignor.)

LIST OF DESIGN PATENTEES

Abt, John H., assignor to Deering Milliken & Co., Inc., New York, N. Y. Textile fabric. 132,796; June 16.

Abt, John H., assignor to Deering Milliken & Co., Inc., New York, N. Y. Textile fabric. 132,797; June 16.

Abt, John H., assignor to Deering Milliken & Co., Inc., New York, N. Y. Textile fabric. 132,798; June 16.

Abt, John H., assignor to Deering Milliken & Co., Inc., New York, N. Y. Textile fabric. 132,799; June 16.

Abt, John H., assignor to Deering Milliken & Co., Inc., New York, N. Y. Textile fabric. 132,800; June 16.

Abt, John H., assignor to Deering Milliken & Co., Inc., New York, N. Y. Textile fabric. 132,801; June 16.

Arens, Egmont, Southport, Conn., assignor to Nashua Gummed and Coated Paper Company, Nashua, N. H. Strip server. 132,802; June 16.

Armstrong, David W., assignor to Boys' Clubs of America, Inc., Worcester, Mass. Badge. 132,774; June 16.

Atkins, Thomas R., New York, N. Y. Shoe ornament or similar article. 132,759; June 16.

Barbara, Stanley, Bronx, N. Y. Belt. 132,804; June 16.

Barofsky, Jack, Los Angeles, Calif. Domestic water heater. 132,789; June 16.

Bauer, Eddie, Seattle, Wash. Parka jacket. 132,803; June 16.

Boys' Clubs of America, Inc. (See Armstrong, David W., assignor.)

Bruning, William, New York, N. Y., assignor to Mayer China Company, Beaver Falls, Pa. Plate or similar article. 132,760; June 16.

Cameron, George W. (See Yerkovich, S., O'Neil, and Cameron.)

Casanova, Franco, Monza, Milan, Italy, assignor to South-Eastern Fabrics Corporation, New York, N. Y. Textile fabric. 132,761; June 16.

Case, John R., Bradford, Pa. Combined hone and receptacle for a knife. 132,775; June 16.

Cashin, Bonnie, New York, N. Y. Dress. 132,806; June 16.

Clarke, James E., Hammond, Ind. Game board. 132,790; June 16.

Comstock, Jackson D. (See Grove, D. E., and Comstock, assignors.)

Cooper's, Incorporated. (See Lindner, John W., assignor.)

Crittenden, Ethel S., Houston, Tex. Badge or similar article. 132,776; June 16.

De Botelho, Martin, New York, N. Y. Bottle cap. 132,805; June 16.

Deering Milliken & Co. (See Abt, John H., assignor.)

Dictaphone Corporation. (See Yerkovich, S., O'Neil, and Cameron, assignors.)

Dur-O-Lite Pencil Company. (See Hoople, Warner W., assignor.)

Eagle Pencil Company. (See Saulsbury, L. W., assignor.)

Electrolux Corporation. (See Stevens, Clarence E., assignor.)

Fields, Minna, New York, N. Y. Dress. 132,807; June 16.

Fields, Minna, New York, N. Y. Dress. 132,808; June 16.

Flory, Andrew, Assignor to Frank Associates, Inc., New York, N. Y. Textile fabric. 132,809; June 16.

Fotie, Joseph A., Kansas City, Mo. Welding machine. 132,769; June 16.

Frank Associates, Inc. (See Flory, Andrew, assignor.)

Freemark, Michael J., Breckenridge, Minn. Lantern. 132,777; June 16.

Frost, Hyman, New York, N. Y. Collar. 132,827; June 16.

Frost, Hyman, New York, N. Y. Collar. 132,828; June 16.

Glessner Company, The. (See Glessner, Harry C., assignor.)

Glessner, Harry C., assignor to The Glessner Company, Findlay, Ohio. Bottle closure. 132,810; June 16.

Gouldner, Ruth D., Los Angeles, Calif. Badge or similar article. 132,778; June 16.

Grove, Don E., West Los Angeles, and J. D. Comstock, assignors to Hollywood Liquefier Corporation, Los Angeles, Calif. Juice extractor. 132,762; June 16.

Harris, Ernest B., Amarillo, Tex. Rug fastener. 132,779; June 16.

Hollywood Liquefier Corporation. (See Grove, D. E., and Comstock, assignors.)

Holt, William E., Oakland, Calif. Floor maintenance machine. 132,811; June 16.

Hopple, Warner W., Evanston, assignor to Dur-O-Lite Pencil Company, Melrose Park, Ill. Automobile visor attachment bag. 132,770; June 16.

Hutaff, George H., Jr., Wilmington, N. C. Bottle cap. 132,771; June 16.

International Silver Company. (See Kintz, Alfred G., assignor.)

Jones, Edwin A., Webster Groves, assignor to Majestic Manufacturing Co., St. Louis, Mo. Counter cooking appliance. 132,763; June 16.

Jumper, Herman E., Tiffin, Ohio. Wall bracket lamp. 132,780; June 16.

Kintz, Alfred G., Wallingford, assignor to International Silver Company, Meriden, Conn. Spoon or other article of flatware. 132,812; June 16.

La Rue, Hubert, Quebec, Quebec, Canada. Game board. 132,829; June 16.

La Verde, Mary. (See La Verde, Samuel F., assignor.)

La Verde, Samuel F., assignor to M. La Verde, Niagara Falls, N. Y. Pull tab for slide fasteners. 132,764; June 16.

Lerer, Henry. (See Wolteger, Z., and Lerer.)

Leslie, Freeland H., Chicago, Ill. Slant roof louver. 132,821; June 16.

Lindner, John W., Milwaukee, assignor to Cooper's, Incorporated, Kenosha, Wis. Statuette. 132,781; June 16.

Lindner, John W., Milwaukee, assignor to Cooper's, Incorporated, Kenosha, Wis. Statuette. 132,782; June 16.

Lindner, John W., Milwaukee, assignor to Cooper's, Incorporated, Kenosha, Wis. Statuette. 132,783; June 16.

Lindner, John W., Milwaukee, assignor to Cooper's, Incorporated, Kenosha, Wis. Statuette. 132,784; June 16.
Lindner, John W., Milwaukee, assignor to Cooper's, Incorporated, Kenosha, Wis. Statuette. 132,785; June 16.
Lunney, Henry J., Los Angeles, Calif. Abdominal support. 132,791; June 16.
Majestic Manufacturing Co. (See Jones, Edwin A., assignor.)
Mastrangelo, Frank, Fitchburg, Mass. Settee. 132,765; June 16.
Mastrangelo, Frank, Fitchburg, Mass. Settee. 132,792; June 16.
Mastrangelo, Frank, Fitchburg, Mass. Settee. 132,822; June 16.
Mayer China Company. (See Bruning, William, assignor.)
Nashua Gummed and Coated Paper Company. (See Arens, Egmont, assignor.)
Netting, Ralph B., Grosse Pointe, Mich. Lighting fixture. 132,786; June 16.
Newman, Albert H., Chicago, Ill. Combined sachet and container. 132,772; June 16.
O'Neil, William J. (See Yerkovich, S., O'Neil, and Cameron.)
Powell, Grace M., New York, N. Y. Black-out shoe or similar article. 132,823; June 16.
Reiss, Alfred, Newton, Mass. Chair. 132,793; June 16.
Remington Rand Inc. (See Streng, Jan, assignor.)
Richter, Louis, Montreal, Quebec, Canada. Combined displaying and dispensing cabinet. 132,766; June 16.
Rubberset Company. (See Schwartz, Harold M., assignor.)
Saulsbury, Lawrence W., Valley Stream, assignor to Eagle Pencil Company, New York, N. Y. Lead pencil or similar article. 132,773; June 16.
Schwartz, Harold M., New York, N. Y., assignor to Rubberset Company, Newark, N. J. Brush. 132,813; June 16.
Schwartz, Harold M., New York, N. Y., assignor to Rubberset Company, Newark, N. J. Brush. 132,814; June 16.
Sharkey, Joseph J., Los Angeles, Calif. Brooch or similar article. 132,794; June 16.
Sommers, Florence, Los Angeles, Calif. Combined beautician's tray and shoulder support. 132,795; June 16.
South-Eastern Fabrics Corporation. (See Casanova, Franco, assignor.)
Steinward, Ernest G., Portland, Oreg. Illuminated picture frame. 132,787; June 16.
Stevens, Clarence E., Greenwich, Conn., assignor to Electrolux Corporation, Dover, Del. Vacuum cleaner. 132,815; June 16.
Streng, Jan, Mason, N. H., assignor to Remington Rand Inc., Buffalo, N. Y. Hair retainer for shavers. 132,816; June 16.
Streng, Jan, Mason, N. H., assignor to Remington Rand Inc., Buffalo, N. Y. Hair retainer for dry shavers. 132,817; June 16.
Streng, Jan, Mason, N. H., assignor to Remington Rand Inc., Buffalo, N. Y. Dry shaver. 132,818; June 16.
Wendell, Philip F., La Crescent, Minn. Advertising sign. 132,767; June 16.
Whalen, Grover A., New York, N. Y. Button or similar article. 132,824; June 16.
Wilde, Hans W., North Bergen, N. J. Textile fabric. 132,830; June 16.
Wilde, Hans W., North Bergen, N. J. Textile fabric. 132,831; June 16.
Winston, Virginia, Jackson Heights, N. Y. Tablecloth or similar article. 132,832; June 16.
Wolf, Semon, New York, N. Y. Slip. 132,819; June 16.
Wolfson, Max, Pittsburgh, Pa. Watch charm or similar article of jewelry. 132,788; June 16.
Wolteger, Zygmunt, and H. Lerer, New York, N. Y. Dispensing carton. 132,820; June 16.
Yerkovich, Simon, Bridgeport, Conn., W. J. O'Neil, Atlantic Beach, N. Y., and G. W. Cameron, Westport, Conn., assignors to Dictaphone Corporation, New York, N. Y. Dual phonograph. 132,825; June 16.
Zackon, Hyman E., Montreal, Quebec, Canada. Woman's shoe or similar article. 132,768; June 16.
Zakos, Evangelos, Brooklyn, N. Y. Jewelry finding or similar article. 132,826; June 16.
Zuckerman, Harry, New York, N. Y. Coat. 132,833; June 16.
Zuckerman, Harry, New York, N. Y. Coat. 132,834; June 16.
Zuckerman, Harry, New York, N. Y. Coat. 132,835; June 16.
Zuckerman, Harry, New York, N. Y. Coat. 132,836; June 16.
Zuckerman, Harry, New York, N. Y. Coat. 132,837; June 16.
Zuckerman, Harry, New York, N. Y. Coat. 132,838; June 16.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 16TH DAY OF JUNE, 1942

NOTE.--Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbe, Edward J., Cleveland Heights, Ohio, assignor to The Elwell-Parker Electric Company. Steering mechanism. 2,286,249; June 16.
Abbott, Edward J., assignor to Abbott Machine Company, Wilton, N. H. Winding machine. 2,286,189; June 16.
Abbott Machine Company. (See Abbott, Edward J., assignor.)
Abegg & Reinhold Co. (See Abegg, Walter A., assignor.)
Abegg, Walter A., assignor to Abegg & Reinhold Co., Ltd., Los Angeles, Calif. Kelly driving means. 2,286,593; June 16.
Abrahamsen, Alfred W., Hempstead, N. Y. Scraping tool. 2,286,190; June 16.
Abramson, John H., and E. C. Swanson, assignors to Greenlee Bros. & Co., Rockford, Ill. Cable pulling device. 2,286,781; June 16.
Acme Visible Records, Inc. (See Hall, Marchand B., assignor.)
Aikman, Burton S. (See Crittenden, P. L., and Aikman.)
Air Reduction Company. (See Anderson, James L., assignor.)
Aitchison, Robert B., Grasmere, Staten Island, N. Y., assignor to The Linde Air Products Company. Springing holes in minerals and minerallike materials. 2,286,782; June 16.
Aitchison, Robert B., Staten Island, C. J. Burch, and C. W. Swartout, Kenmore, N. Y., assignors to The Linde Air Products Company. Mineral piercing and cutting. 2,286,191; June 16.
Aitchison, Robert B., Grasmere, G. H. Smith, and C. W. Swartout, Kenmore, N. Y., assignors to The Linde Air Products Company. Mineral piercing and cutting. 2,286,192; June 16.
Albertoli, John, San Francisco, Calif. Can conveying and elevating apparatus. 2,286,250; June 16.
Albree, George N., Winchester, Mass. Sighting means for firearms. 2,286,703; June 16.
Allis-Chalmers Manufacturing Company. (See Mortensen, Soren H., assignor.)
Allied Chemical & Dye Corporation. (See Clark, Earl W., assignor.)
Altland, Ernest, Abbottstown, Pa. Mop. 2,286,944; June 16.
Aluminum Company of America. (See Kempf, L. W., and Dean, assignors.)
Aluminum Company of America. (See Miller, Mike A., assignor.)
Amberg, Walter E., Chicago, Ill. Constant velocity universal joint. 2,286,182; June 16.
American Bosch Corporation. (See Parsons, Ben G., assignors.)
American Car and Foundry Company. (See Andrews, V. E., Schanz and Sheffer, assignors.)
American Car and Foundry Company. (See Birt, Jesse F., assignor.)
American Car and Foundry Company. (See Bogard, F. J., and Pancake, assignors.)
American Car and Foundry Company. (See Clarke, A. W., and Nichols, assignors.)
American Car and Foundry Company. (See Haessler, Walter M., assignor.)
American Car and Foundry Company. (See Kepner, Robert C., assignor.)
American Car and Foundry Company. (See Nichols, Ralph G., assignor.)
American Car and Foundry Company. (See Oleksiw, Jerome J., assignor.)
American Car and Foundry Company. (See Schanz, Arthur C., assignor.)
American Cyanamid Company. (See Ashley, Kenneth D., assignor.)
American Cyanamid Company. (See Barnes, Robert B., assignor.)
American Cyanamid Company. (See Davis, Harold S., assignor.)
American Cyanamid Company. (See Hechenbleikner, Ingenuin, assignor.)
American Cyanamid Company. (See Hill, William H., assignor.)
American Cyanamid Company. (See Jayne, D. W., Jr., and Day, assignors.)
American Cyanamid Company. (See Ripper, Kurt E., assignor.)
American Cyanamid Company. (See Roblin, Richard O., Jr., assignor.)
American Foundry Equipment Company, The. (See Minich, Verne E., assignor.)
American Locomotive Company. (See Schulenberg, Edgar W., assignor.)
American Machine & Foundry Company. (See Beutel, Robert J., assignor.)
American Machine & Foundry Company. (See Naftali, Valentine, assignor.)
American Machine & Foundry Company. (See Randolph, Clifford F., assignor.)
American Optical Company. (See Goddu, Lloyd K., assignor.)
American Optical Company. (See Gould, Marvin J., assignor.)
American Rolling Mill Company, The. (See Claybaugh, Howard S., assignor.)
American Rolling Mill Company. (See Gibbons, Charles J., assignor.)
American Seal-Kap Corporation of Delaware. (See Martin, Harold W., assignor.)
American Steel and Wire Company of New Jersey, The. (See DeLamatter, William W., assignor.)
American Steel and Wire Company of New Jersey, The. (See Morrison, James J., assignor.)
American Steel and Wire Company, The. (See Peterson, Carl H., assignor.)
American Steel Foundries. (See Cottrell, R. B., and Spieth, assignors.)
American Steel Foundries. (See Lehrman, Leo A., assignor.)
American Steel Foundries. (See Light, David M., assignor.)
American Steel Foundries. (See Tack, Carl E., assignor.)
Andersag, Hans. (See Westphal, K., and Andersag.)
Anderson, Albert L., assignor to The Cosmet Corporation, Minneapolis, Minn. Machine for grinding facets in lens edges. 2,286,886; June 16.
Anderson, James L., Closter, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Circle cutting attachment. 2,286,664; June 16.
Andrews, Velorus E., Teaneck, A. C. Schanz and J. W. Sheffer, Glen Ridge, N. J., assignors to American Car and Foundry Company, New York, N. Y. Welding machine. 2,286,945; June 16.
Angel Novelty Company. (See Mastrangelo, Frank, assignor.)
Angell, Charles H., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,286,453; June 16.
Anschütz, Robert, assignor to Mercedes Buromaschinen-Werke Aktiengesellschaft, Zella-Mehlis, Thuringia, Germany. Total taking mechanism. 2,286,887; June 16.
Antos, Joseph. (See Wilson, F. D., and Antos.)
Apt, Louis C., Rockaway Park, N. Y. Bob pin holder. 2,286,704; June 16.
Armour and Company. (See Ralston, A. W., and Vander Wal, assignors.)
Arnold, Harold W., Marshallton, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Interpolymers and preparation of same. 2,286,251; June 16.
Arnold, Robert B., Stonewall Courts, Va., assignor to Tobacco By-Products and Chemical Corporation, Louisville, Ky. Apparatus for fumigating. 2,286,888; June 16.
Arpin, Charlotte C., Fort Lauderdale, Fla. Garment. 2,286,889; June 16.
Arrow-Hart & Hegeman Electric Co. (See Johnson, David W., assignor.)
Arthur, Alexander F., Homestead, assignor, by mesne assignments, to F. C. Peters, Miami Beach, Fla. Apparatus for treating potatoes for shipment. 2,286,705; June 16.
Artistic Foundations, Inc. (See Kahn, Mack, assignor.)
Artkraft Sign Company, The. (See Bowsher, Clinton, assignor.)
Ashley, Kenneth D., Darien, Conn., assignor to American Cyanamid Company, New York, N. Y. Barium salt of the pseudo acid of nitroaminoguanidine and preparing the same. 2,286,327; June 16.
Askania-Werke A. G. (See Bohnstedt, Herbert, assignor.)
Associated Electric Laboratories, Inc. (See Molnar, I., and Griffins, assignors.)
Associated Telephone & Telegraph Company. (See Baker, George T., assignor.)
Associated Telephone & Telegraph Company. (See Taylor, R., and Baker, assignors.)
Atlantic Refining Company, The. (See Chechot, Vladimir L., assignor.)
Atlantic Refining Company, The. (See Hersberger, Arthur B., assignor.)
Auburn Foundry, Inc. (See Fitch, Hurshel H., assignor.)
Aumüller, Walter. (See Böckmuhl, M., Ehrhart, Ruschig, and Aumüller.)

Austin, Dwight E., assignor to Yellow Truck & Coach Manufacturing Company, Pontiac, Mich. Door and step mechanism. 2,286,706; June 16.
Avery, B. F., and Sons Company. (See Ray, Charles T., assignor.)
Axelson Manufacturing Co. (See Kelly, J., and Hammett, assignors.)
Bacharach, Eric W. (See Lieberman, Edgar M., assignor.)
Bachman, Gustave B. (See Maim, C. J., and Bachman.)
Bacon, Elbridge F., Flint, assignor to General Motors Corporation, Detroit, Mich. Engine unit for electrically operated thermogauges. 2,286,707; June 16.
Bailey Meter Company. (See Luhrs, John F., assignor.)
Bair, Walter E., Superior, Wis. Device for removing olives, etc., from bottles. 2,286,708; June 16.
Baker, George T. (See Taylor, R., and Baker.)
Baker, George T., Liverpool, England, assignor to Associated Telephone & Telegraph Company, Chicago, Ill. Automatic switch for use in telephone or like systems. 2,286,328; June 16.
Baker, Marlin S. (See Tefft, I. D., and Baker.)
Ball, Albert P., assignor to Briggs Manufacturing Company, Detroit, Mich. Adjustable seat. 2,286,946; June 16.
Ballou, B. A., & Co. (See Morehouse, Eugene, assignor.)
Baltimore Development Corporation. (See Barcus, John W., assignor.)
Bankson, John V., Greenville, Ohio. Hydraulic hoist. 2,286,947; June 16.
Bannon, Edward W., Houston, Tex. Water heater. 2,286,329; June 16.
Barcus, John W., Baltimore, Md., assignor to Baltimore Development Corporation. Gear cutting attachment. 2,286,709; June 16.
Barnes, Robert B., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Guanidine ferricyanide complex. 2,286,330; June 16.
Barthel, Oliver E., and N. E. Marker, Detroit, Mich. Color projection lamp. 2,286,783; June 16.
Bartlett, Norman, North Tonawanda, N. Y. Automobile amusement apparatus. 2,286,454; June 16.
Bascom, Roger C. (See Roberts, D., and Bascom.)
Bay State Optical Company. (See Nerney, George E., assignor.)
Becker, Joseph, assignor to Koppers Company, Pittsburgh, Pa. Coke-oven by-product tar and ammonia recovery. 2,286,455; June 16.
Becker, Walter A., Charlotte, N. C., assignor to Old Dominion Box Company, Lynchburg, Va. Collapsible box. 2,286,399; June 16.
Behrndt, Lewis J. (See Dickins, A. W. M., and Behrndt.)
Bell, Joseph D., San Francisco, Calif. Chair bed. 2,286,948; June 16.
Bell Telephone Laboratories, Incorporated. (See Schelkunoff, Sergei A., assignor.)
Bemis Bro. Bag Co. (See Hannewald, B. A., and Keller, assignors.)
Bendix Aviation Corporation. (See Hood, E. Elliott, assignor.)
Bendix Aviation Corporation. (See Hurley, Roy T., assignor.)
Bendix Aviation Corporation. (See Kearney, Daniel P., assignor.)
Bennetch, David S., Sheridan, Pa. Full automatic automotive transmission. 2,286,193; June 16.
Bennett, Charles E., Hawthorne, assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J. Electric cable system. 2,286,594; June 16.
Benzick, Alexander, and H. C. Rusch, Milwaukee, assignors to Nash-Kelvinator Corporation, Kenosha, Wis. Seat construction. 2,286,784; June 16.
Berg, Harold I., et al. (See Frost, Roy H., assignor.)
Berger, Brynjuit, Bellerose, N. Y., and P. Humphrey, Mountain Lakes, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Record sheet holder. 2,286,331; June 16.
Bergstrom, Carl O., assignor to B. F. Sturtevant Company, Boston, Mass. Air conditioning system utilizing refrigeration. 2,286,252; June 16.
Berkley Machine Works & Foundry Company. (See Jones, Samuel G., assignor.)
Beutel, Robert J., Brooklyn, N. Y., assignor to American Machine & Foundry Company. Dough rounding mechanism. 2,286,983; June 16.
Birt, Jesse F., Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y. Double window construction. 2,286,890; June 16.
Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Rough service electric hand lamp. 2,286,891; June 16.
Blackhawk Mfg. Co. (See Mandl, Siegmund, assignor.)
Blackhawk Mfg. Co. (See Traut, William A., assignor.)
Blair, Clifford, Ironton, Ohio. Hot air furnace. 2,286,665; June 16.
Blair, Hal R. (See Taaffe, Thomas, assignor.)
Bleibler, Ernest, Ghent, Belgium. Apparatus for drying webs of paper regenerated from cellulose derivatives. 2,286,595; June 16.
Bleyer, Lloyd G., assignor to Chain Belt Company, Milwaukee, Wis. Chain link attachment for traveling water screens. 2,286,332; June 16.
Blumlein, Alian D. (See Browne, C. O., Blumlein, and Hardwick.)
Bocji Corporation. (See Miller, James R., assignor.)
Böckmuhl, Max, G. Ehrhart, H. Ruschig, and W. Aumüller, Frankfort-on-the-Main-Hochst, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Preparing oxocompounds of the cyclopentano-polyhydro-phenanthrene series. 2,286,892; June 16.
Boettcher, Edgar F., Aberdeen, S. Dak. Track inspection gauge. 2,286,456; June 16.
Bogard, Fred J., and H. H. Pancake, Huntington, W. Va., assignors to American Car and Foundry Company, New York, N. Y. Drop bottom mine car. 2,286,949; June 16.
Bohnstedt, Herbert, Berlin, Germany, assignor to Askania-Werke A. G. Humidity responsive instrument. 2,286,710; June 16.
Boillat, Philippe, assignor to the firm Tavennes Machines Co. S. A., Tavennes, Switzerland. Automatic lathe. 2,286,457; June 16.
Boissou, Pierre, assignor to Societe Anonyme des Hauts Fourneaux et Fonderies de Pont a Mousson, Pont-a-Mousson, France. Apparatus and method for bending pipes, bars, plates, and like pieces. 2,286,893; June 16.
Borg, George W., Corporation, The. (See Ralston, Walter E., assignor.)
Borg-Warner Corporation. (See Simpson, John M., assignor.)
Borglin, Joseph N., assignor to Hercules Powder Company, Wilmington, Del. Chewing gum. 2,286,712; June 16.
Bosch, Robert, Gesellschaft mit beschränkter Haftung. (See Voit, Willy, assignor.)
Boutte, Julius H., New Iberia, La. Corner brush for paper hangers. 2,286,253; June 16.
Bowen Products Corporation. (See Young, Leonard A., assignor.)
Bowman, Wade V., and C. M. Latta, Hickory, N. C. Transfer applying apparatus. 2,286,458; June 16.
Bowser, S. F., & Company. (See Griffith, Clement P., assignor.)
Bowsher, Clinton, assignor to The Artkraft Sign Company, Lima, Ohio. Coating alloy. 2,286,333; June 16.
Boye Needle Company, The. (See Carlson, Gustav A., assignor.)
Brace, George A. (See Pringle, M., and Lame, assignors.)
Bradley, Albert F., assignor to Northwestern Steel and Wire Company, Sterling, Ill. Making galvanized articles. 2,286,194; June 16.
Bradley, William E., Los Angeles, and K. J. Korpi, Palos Verdes Estates, assignors to Union Oil Company of California, Los Angeles, Calif. Alkylation of isoparaffinic hydrocarbons. 2,286,183; June 16.
Bradley, William E., Los Angeles, and K. J. Korpi, Palos Verdes Estates, assignors to Union Oil Company of California, Los Angeles, Calif. Producing paraffinic hydrocarbons. 2,286,184; June 16.
Brandt, Francis L., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Method of and machine for attaching heels to shoes. 2,286,195; June 16.
Brandt, Robert L., assignor to Coffee Products Corporation, New York, N. Y. Extraction process. 2,286,334; June 16.
Brault, Rene J., Bristol, assignor to The Silex Company, Hartford, Conn. Spring arrester. 2,286,254; June 16.
Braun, Gwilym S., Strasburg, Ohio, assignor to Knapp-Monarch Company, St. Louis, Mo. Thermostatic switch. 2,286,459; June 16.
Brayshaw, Daniel W., Vandergrift, Pa. Roll finisher. 2,286,596; June 16.
Brazie, Earl R. (See Kelly, J. C., and Brazie.)
Breedlove, Charles B., Detroit, Mich. Theft-preventing device. 2,286,950; June 16.
Brescka, Rudolph S., and E. C. Scott, Cranford, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Indicator. 2,286,335; June 16.
Briggs Manufacturing Company. (See Ball Albert P., assignor.)
Briggs, Robert E., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Conveyer. 2,286,666; June 16.
Briskman, Samuel. (See Schwartz, David L., assignor.)
Brooke, Frank W., Pittsburgh, Pa. Self-locking nut and making same. 2,286,336; June 16.
Brooke, Frank W., Pittsburgh, Pa. Self-locking nut. 2,286,667; June 16.
Brooke, Frank W., Pittsburgh, Pa. Manufacture of holding caps for self-locking nuts. 2,286,668; June 16.
Brooks, Everett E., Cleveland Heights, assignor to The Murray-Ohio Mfg. Co., Cleveland, Ohio. Tube bending apparatus. 2,286,255; June 16.
Brown, Harold J., assignor to Electronic Laboratories, Incorporated, Indianapolis, Ind. Inverter circuit. 2,286,842; June 16.
Brown Instrument Company, The. (See Krogh, Anker E., assignor.)
Brown, Richard D., Olean, N. Y. Brush knife. 2,286,951; June 16.
Brown, Roy W., Chicago, Ill. Reel. 2,286,460; June 16.
Brown, Theophilus, assignor to Deere & Company, Moline, Ill. Hydraulic mechanism. 2,286,256; June 16.

Brown, Cecil O., West Acton, London, A. D. Blumlein, Ealing, London, and J. Hardwick, West Drayton, England, assignors to Electric & Musical Industries Limited, Hayes, Middlesex, England. Circuit arrangement embodying cathode ray oscilliographs. 2,286,894; June 16.
Brück, Lothar, Berlin-Neutempelhof, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Berlin, Germany. Negative feedback circuit. 2,286,337; June 16.
Bruckel, Jerome J., Philadelphia, Pa., and W. F. Plume, Audubon, N. J., assignors to Philadelphia Gear Works, Inc., Philadelphia, Pa. Valve control. 2,286,597; June 16.
Bruno Patents Inc. (See Bruno, William A., assignor.)
Bruno, William A., Astoria, assignor, by mesne assignments to Bruno Patents Inc., Long Island City, N. Y. Retractable landing light arrangement for aircraft. 2,286,338; June 16.
Brush Development Company, The. (See Odell, Malcolm P., assignor.)
Bubenic, Louis, Emery, Wis. Sanitary tail tie. 2,286,258; June 16.
Buckley Music System, Inc. (See Henry, Earle G., assignor.)
Budd, Edward G., Manufacturing Company. (See Eksergian, Rupen, assignor.)
Budd, Edward G., Manufacturing Company. (See Ledwinka, Joseph, assignor.)
Buerk, Andrew C., and E. Haberberger, assignors to Stackpole Carbon Company, St. Marys, Pa. Insulated conductor. 2,286,339; June 16.
Buffington, Frank B., Chester, Pa. Automatic brake wear adjustment mechanism. 2,286,711; June 16.
Bulpitt, Walter H., Birmingham, England. Electric thermal switch. 2,286,340; June 16.
Burch, Charles J. (See Aitchison, R. B., Burch and Swartout.)
Burch, Charles J. (See Williams, V. C., Burch and Smith.)
Burke & James, Inc. (See Drucker, Samuel, assignor.)
Burks, Arthur W., assignor to Decatur Pump Company, Decatur, Ill. Valve. 2,286,713; June 16.
Burnelli, Vincent J., Keyport, N. J., assignor to Central Aircraft Corporation. Airplane front gunnery means. 2,286,341; June 16.
Burns, Bruce, Santa Monica, assignor to Salsbury Corporation, Los Angeles, Calif. Clutch for motor vehicles. 2,286,461; June 16.
Bush, Burton T., Inc. (See Carpenter, Marion S., assignor.)
Butler, James E., Memphis, Tenn., assignor to Fairbanks, Morse & Co., Chicago, Ill. Alignment mechanism for recording scales. 2,286,196; June 16.
B. B. Chemical Co. (See Perkins, John L., assignor.)
Cagle, James H., Aurora, Ill., assignor to Glenn Davidson. Manufacture of coated paper. 2,286,259; June 16.
California Container Corporation. (See Roberts, William V., assignor.)
Calva, Jose B., St. Paul, Minn., assignor, by mesne assignments, to Waldorf Paper Products Company. Container. 2,286,342; June 16.
Cannon & Co. (See Padva, Philip, assignor.)
Cannon, J. H., and R. J., Los Angeles, Calif., said R. J. Cannon assignor to said J. H. Cannon. Split connector for electrical conduits. 2,286,952; June 16.
Cannon, Robert J. (See Cannon, James H., and R. J.)
Capital Tire and Safety Co. (See Houser, L. R., and Evans, assignors.)
Carborundum Company, The. (See Kirchner, Henry P., assignor.)
Cardinal Products, Inc. (See Schmitt, George P., assignor.)
Carlson, Bert G., Willobee, assignor to The Weatherbead Company, Cleveland, Ohio. Locknut. 2,286,895; June 16.
Carlson, Gustav A., assignor to The Boye Needle Company, Chicago, Ill. Display cabinet. 2,286,785; June 16.
Carpenter, Marion Scott, Nutley, N. J., assignor to Burton T. Bush, Inc., New York, N. Y. Making thymol. 2,286,953; June 16.
Carr, Leonard W., Norfolk, Va. Bricklaying instrument. 2,286,669; June 16.
Carrier Corporation. (See Hanson, Lars, assignor.)
Carrillo, Aniceto, Mexico City, Mexico. Flushing system 2,286,896; June 16.
Carter, Haskell C., assignor to Iron Fireman Manufacturing Company, Portland, Oreg. Coal supply mechanism for stokers. 2,286,844; June 16.
Carter, Samuel C., Los Angeles, Calif. Packing material. 2,286,260; June 16.
Casavant, Ernest, Brockton, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Machine for applying pressure to shoe parts. 2,286,261; June 16.
Casco Products Corporation. (See Lehmann, Herbert G., assignor.)
Castedello, William. (See Schwartz, M., and Castedello.)
Catalane, Bartholomew W., Buffalo, N. Y., E. V. Karabin, Wilkinsburg, and W. J. Sharbaugh, assignors to Mine Safety Appliances Company, Pittsburgh, Pa. Safety hat. 2,286,843; June 16.
Celanese Corporation of America. (See Olpin, Henry C., assignor.)
Celanese Corporation of America. (See Seymour, G. W., and White, assignors.)
Celanese Corporation of America. (See Stanley, E., Ellis, and Olpin, assignors.)
Central Aircraft Corporation. (See Burnelli, Vincent J., assignor.)
Chaffin, Rafe C., Los Angeles, Calif. Surgical suction drainage and irrigation tube. 2,286,462; June 16.
Chain Belt Company. (See Bleyer, Lloyd G., assignor.)
Chalmers, James M., East Orange, N. J., assignor to Oliver United Filters Incorporated, Oakland, Calif. Filter. 2,286,400; June 16.
Chamberlain, Julius P., Warner, Ohio. Weighing apparatus. 2,286,598; June 16.
Chase-Shawmut Company, The. (See Taylor, Elmer H., assignor.)
Chaskin, Harold, New York, N. Y. Door lock signal. 2,286,463; June 16.
Chasmar, Reginald P. (See White, E. L. C., and Chasmar.)
Chechak, Jonas J. (See Seymour, M. W., and Chechak.)
Chechak, Jonas J. (See Seymour, M. W., Young, and Chechak.)
Chechak, Jonas J., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic element containing a trisazo dye. 2,286,714; June 16.
Chechot, Vladimir L., assignor to The Atlantic Refining Company, Philadelphia, Pa. Treatment of hydrocarbon oils. 2,286,343; June 16.
Chechot, Vladimir L., assignor to The Atlantic Refining Company, Philadelphia, Pa. Refining hydrocarbon oil. 2,286,344; June 16.
Cheever, Frank E., assignor to Jones & Lamson Machine Company, Springfield, Vt. Thread chasing attachment for lathes. 2,286,715; June 16.
Chicago Development Company. (See Dean, Reginald S., assignor.)
Chicago Forging & Manufacturing Company. (See Hill, R., and Krause, assignors.)
Chicago Forging & Manufacturing Company. (See Krause, Walter H., assignor.)
Chott, Edward L., Chicago, Ill. Mortar and pestle. 2,286,599; June 16.
Chott, Edward L., Chicago, Ill. Dental amalgamator. 2,286,600; June 16.
Christy, Frank W., Beverly, assignor to Golden Leatherboard Co., Haverhill, Mass. Wiper. 2,286,464; June 16.
Cinch Manufacturing Corporation. (See Del Camp, Scipione M., assignor.)
City Novelty Corporation. (See Mantz, Robert, assignor.)
Clark, Agnes A., Englewood, N. J. Brassière. 2,286,601; June 16.
Clark, Earl W., Buffalo, N. Y., assignor to Allied Chemical & Dye Corporation. Coloring with vat dyes and compositions therefor. 2,286,262; June 16.
Clark, Ernest J., Taft, Calif. Mold for sub stabilizers. 2,286,716; June 16.
Clarke, Allen W., and R. G. Nichols, St. Charles, Mo., assignors to American Car and Foundry Company, New York, N. Y. Side sill. 2,286,954; June 16.
Clason, Ragnar, Flint, assignor to General Motors Corporation, Detroit, Mich. Electric oil pressure gauge. 2,286,717; June 16.
Clausen, Henry P., White Plains, N. Y., assignor to The Gray Manufacturing Company, Hartford, Conn. Pause control system for dictation reproducing machines. 2,286,345; June 16.
Clausen, Henry P., White Plains, N. Y., assignor to The Gray Manufacturing Company, Hartford, Conn. Sound recording and reproducing machine. 2,286,346; June 16.
Clausen, Henry P., White Plains, N. Y., assignor to The Gray Manufacturing Company, Hartford, Conn. Marking control system for dictation machines. 2,286,347; June 16.
Claybaugh, Howard S., Minneapolis, Minn., assignor to The American Rolling Mill Company, Middletown, Ohio. Pipe or culvert. 2,286,197; June 16.
Clement, Erlin, Pedro Miguel, C. Z. Paper cup opener. 2,286,465; June 16.
Clements, Albert. (See Verson, D. C., and Clements.)
Clocker, Edwin T., Bethlehem, Pa. Oil acid-modified polyhydric alcohol-polybasic acid resin. 2,286,466; June 16.
Cloutier, Arthur N., Lonsdale, assignor to Hemphill Company, Central Falls, R. I. Elastic yarn feeding means for knitting machines. 2,286,955; June 16.
Cloutier, Arthur N. (See Lawson, R. H., and Cloutier.)
Cloyd, Harold, Erie, Pa., assignor to Eastman Kodak Company, Rochester, N. Y. Distillation column construction. 2,286,786; June 16.
Coffee Products Corporation. (See Brandt, Robert L., assignor.)
Coltman, Bernard J., South Wigston, and R. J. Thornton, Blaby, England. Machine for performing linking and seaming operations on knitted fabric. 2,286,787; June 16.
Commonwealth Engineering Corporation. (See Toulmin, Harry A., Jr., assignor.)
Comins, Ralph B., Lowell, Mass. Quick acting coupling. 2,286,263; June 16.
Condon, Maurice M., Chappaqua, N. Y. Fan. 2,286,670; June 16.

Conmar Products Corporation. (See Rabinow, David, assignor.)
Continental-Diamond Fibre Company. (See Landt, Gustave E., assignor.)
Cool, Ira J., Jr., Santa Monica, and E. H. Wildman, Los Angeles, Calif. Garment protector. 2,286,788; June 16.
Cooley, Elihu H. (See Green, W. G., and Cooley.)
Corbett, Edward. (See Gallagher, Edward G., assignor.)
Cornell, H. E. (See Yearta, Alton B., assignor.)
Corning Glass Works. (See Hood, H. P., and Nordberg, assignors.)
Corning Glass Works. (See Weber, W. C., and Wellech, assignors.)
Cosmet Corporation, The. (See Anderson, Albert L., assignor.)
Costa, Philip J., and G. E. Holback, Yonkers, N. Y. Vibration pickup. 2,286,897; June 16.
Coston, Elmer D., assignor to Manufacturers Supplies Company, St. Louis, Mo. Folding machine. 2,286,467; June 16.
Cotchett, Louis M., Hingham, assignor to Saco-Lowell Shops, Boston, Mass. Spinning frame and similar machines. 2,286,602; June 16.
Cottrell, Robert B., and W. S. Spieth, assignors to American Steel Foundries, Chicago, Ill. Snubber. 2,286,845; June 16.
Coumbe, Frederick R., Newark, Ohio, and J. W. Romig, Rumford, R. I., assignors, by mesne assignments, to Owens-Corning Fiberglas Corporation, Toledo, Ohio. Spacing mechanism for conveyers. 2,286,603; June 16.
Courtaulds Limited. (See Hegan, H. J., Givens, and Rose, assignors.)
Cover, Peter, Medina, Ohio. Electric switchbox. 2,286,898; June 16.
Cramer, Jesse F. (See Cramer, Roy A., and J. F.)
Cramer, Roy A., and J. F. Cramer, Kansas City, Mo. Posture chair. 2,286,468; June 16.
Crawford, John W. C., Frodsham, and N. McLeish, Runcorn, England, assignors to Imperial Chemical Industries Limited. Polymerization product of alpha-chloroacrylic compounds and preparation of same. 2,286,264; June 16.
Crawford, Robert B. P., Miami, Fla., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Air conditioning system. 2,286,604; June 16.
Crawford, Robert B. P., Miami, Fla. Air conditioning system. 2,286,605; June 16.
Crescentini, Humbert, Youngstown, Ohio. Casement window. 2,286,899; June 16.
Crittenden, Philip L., Edgewood, and B. S. Aikman, Wilkinsburg, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Clutch control means. 2,286,671; June 16.
Crommie, Earl, assignor to Waterville Textile Mills, Inc., Waterville, N. Y. Circular knitting machine. 2,286,469; June 16.
Crouse-Hinds Company. (See Bissell, Carl H., assignor.)
Cuddihy, Claude P., and H. A. Kennedy, Springfield, Mass. Seat covering device. 2,286,606; June 16.
Curtis, David, New York, N. Y. Anaesthetic compound and solvent for the same. 2,286,718; June 16.
Custer, Ralph L., Garden City, N. Y. Holding device for laundry pressing machines. 2,286,348; June 16.
Dafforn, Kenneth B., and R. I. Huffman, Dover, Ohio, assignors to Knapp-Monarch Company, St. Louis, Mo. Electric teakettle. 2,286,470; June 16.
Dahl, Joseph, Schwerin, Germany. Focusing system. 2,286,471; June 16.
Danciger Oil & Refineries, Inc. (See Heinemann, Heinz, assignor.)
Danley, Gail L., and A. J. Gordon, Denver, Colo. Telephone sterilizer. 2,286,900; June 16.
Davidson, Glenn. (See Cagle, James H., assignor.)
Davio, Joseph C., Agawam, Mass. Key retaining means. 2,286,265; June 16.
Davis, Harold S., Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparation of solutions of cyanamide in liquid ammonia. 2,286,349; June 16.
Davis, John W., Tarentum, Pa., and R. McBrian, Denver, Colo. Alloy wrought iron and article made therefrom. 2,286,198; June 16.
Dawson, John W., Auburndale, and L. K. Marshall, Cambridge, assignors to Raytheon Manufacturing Company, Newton, Mass. Arc welding system and method. 2,286,211; June 16.
Day, Harold M. (See Jayne, D. W., Jr., and Day.)
Dayton Pump and Manufacturing Company, The. (See Eickmeyer, Earl E., assignor.)
Dean, Carleton M., Detroit, Mich. Game table. 2,286,901; June 16.
Dean, Reginald S., Washington, D. C., assignor to Chicago Development Company, Chicago, Ill. Manganese alloy. 2,286,199; June 16.
Dean, Walter A. (See Kempf, L. W., and Dean.)
Deane, Henry N., and J. A. Dell, assignors to Simplex Time Recorder Co., Gardner, Mass. Recording mechanism. 2,286,902; June 16.
Decatur Pump Company. (See Burks, Arthur W., assignor.)
Deere & Company. (See Brown, Theophilus, assignor.)
DeLamatter, William W., Lakewood, Ohio, assignor to The American Steel and Wire Company of New Jersey. Hard metal article and making. 2,286,672; June 16.
De Lancey, Ralph W., assignor to The Miller Company, Meriden, Conn. Thermostat. 2,286,266; June 16.
De Lappe, Birch W. (See Du Val, A., and De Lappe.)
Delaval-Crow, Thomas C., Bristol, Conn., assignor to General Motors Corporation, Detroit, Mich. Bearing seal. 2,286,472; June 16.
Del Camp, Scipione M., Maywood, assignor to Cinch Manufacturing Corporation, Chicago, Ill. Socket and socket installation. 2,286,984; June 16.
Dell, James A. (See Deane, H. N., and Dell.)
Demuth, Charles, Jamaica, N. Y. Air heating furnace. 2,286,719; June 16.
Dench, Edward C., South Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Integral high pressure lamp and starting circuit therefor. 2,286,789; June 16.
Dench, Edward C., South Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Starting circuit for fluorescent lamps. 2,286,790; June 16.
Detroit Lubricator Company. (See Landon, W. S., and Russel, assignors.)
Dickey, Joseph B., and J. G. McNally, assignors to Eastman Kodak Company, Rochester, N. Y. Yarn treating process. 2,286,791; June 16.
Dickey, Joseph B., and J. G. McNally, assignors to Eastman Kodak Company, Rochester, N. Y. Yarn conditioning process and composition therefor. 2,286,792; June 16.
Dickey, Joseph B., assignor to The Eastman Kodak Company, Rochester, N. Y. Yarn conditioning process and compositions therefor. 2,286,793; June 16.
Dickey, Joseph B., and J. G. McNally, assignors to Eastman Kodak Company, Rochester, N. Y. Yarn conditioning process and composition therefor. 2,286,794; June 16.
Dickey, Joseph B., and J. G. McNally, assignors to Eastman Kodak Company, Rochester, N. Y. Azo compounds and material colored therewith. 2,286,795; June 16.
Dickey, Joseph B. (See McNally, J. G., and Dickey.)
Dickins, Arthur W. M., and L. J. Behrndt, assignors to Eastman Kodak Company, Rochester, N. Y. Purification of n-methyl-p-amino-phenol. 2,286,796; June 16.
Dickinson, Allan B., Cedar Grove, N. J., assignor to Radio Corporation of America. Cathode-to-spacer assembly. 2,286,996; June 16.
Dictaphone Corporation. (See Lucarelle, J. M., and Ecklund, assignors.)
Dillon, Paul W., assignor to Northwestern Steel and Wire Company, Sterling, Ill. Method of and apparatus for drawing wire and fabricating articles therefrom. 2,286,956; June 16.
Dockerty, Stuart M., Corning, N. Y., assignor, by mesne assignments, to Owens-Corning Fiberglas Corporation. Fibre producing mechanism. 2,286,903; June 16.
Dolinig, Dolphus O., River Forest, assignor to Mills Novelty Company, Chicago, Ill. Endless film reeling device for motion picture projectors. 2,286,200; June 16.
Dornvan Corporation, The. (See Van Dorn, Herbert E., assignor.)
Dorr Company Inc., The. (See Weiss, R. G. A., and Talbot, assignors.)
Douglas, Leslie A., San Antonio, Tex. Extracting the pore content of subterranean strata. 2,286,673; June 16.
Dow Chemical Company, The. (See Kirk, Roy C., assignor.)
Dow Chemical Company, The. (See McDonald, John C., assignor.)
Dow Chemical Company, The. (See Moyle, C. L., and Fletcher, assignors.)
Dow Chemical Company, The. (See Robinson, Harold A., assignor.)
Drake, Theodore R., Avalon, Calif. Aquatic device. 2,286,350; June 16.
Drucker, Samuel, assignor to Burke & James, Inc., Chicago, Ill. Print washer. 2,286,351; June 16.
Dryer, Charles G. (See Egloff, G., and Dryer.)
Duerme, Francisco M., Chicago, Ill. Nursing bottle. 2,286,797; June 16.
Duggan, James E., Detroit, Mich. Paint mask structure. 2,286,473; June 16.
Dunham, George W., Westport, Conn., assignor to General Electric Company. Washing machine. 2,286,720; June 16.
Du Pont, E. I., de Nemours & Company. (See Arnold, Harold W., assignor.)
Du Pont, E. I., de Nemours & Company. (See Gordon, Wallace E., assignor.)
Du Pont, E. I., de Nemours & Company. (See Gubelmann, Ivan, assignor.)
Du Pont, E. I., de Nemours & Company. (See Hanahan, M. L., and McKinney, assignors.)
Du Pont, E. I., de Nemours & Company. (See Hanson, Victor F., assignor.)
Du Pont, E. I., de Nemours & Company. (See Hill, Julian W., assignor.)
Du Pont, E. I., de Nemours & Company. (See Hucks, Robert T., assignor.)
Du Pont, E. I., de Nemours & Company. (See Mighton, Charles J., assignor.)

Du Pont, E. I., de Nemours & Company. (See Ochs, William F., assignor.)
Du Pont, E. I., de Nemours & Company. (See Reichert, J. S., Elston, and Secord, assignors.)
Du Pont, E. I., de Nemours & Company. (See Shutt, Richard S., assignor.)
Du Pont, E. I., de Nemours & Company. (See Sparks, Chiles E., assignor.)
Du Pont, E. I., de Nemours & Company. (See von Bichowsky, Foord, assignor.)
Du Pont, E. I., de Nemours & Company. (See von Bichowsky, F., and McKinney, assignors.)
Durham, Hobart N., Munsey Park, N. Y., and G. B. Finnegan, Jr., Mountain Lakes, N. J. Fire control. 2,286,474; June 16.
DuVal, Amelia, and B. W. De Lappe, New York, N. Y.; said De Lappe assignor to said DuVal. Combined container and sipper. 2,286,957; June 16.
Dyer, Frederick C., and H. L. McClelland, Toronto, Ontario, Canada. Apparatus and process for separating particles. 2,286,607; June 16.
Dyment Company, The. (See Mullen, James T., assignor.)
Eakins, Herbert W., Springfield, Ohio. Vegetable peeler. 2,286,352; June 16.
Eastman Kodak Company. (See Chechak, Jonas J., assignor.)
Eastman Kodak Company. (See Cloyd, Harold, assignor.)
Eastman Kodak Company. (See Dickey, J. B., and McNally, assignors.)
Eastman Kodak Company. (See Dickey, Joseph B., assignor.)
Eastman Kodak Company. (See Dickins, A. W. M., and Behrndt, assignors.)
Eastman Kodak Company. (See Faw, Wendell G., assignor.)
Eastman Kodak Company. (See Hall, Vincent C., assignor.)
Eastman Kodak Company. (See Hutchinson, Miller R., Jr., assignor.)
Eastman Kodak Company. (See Lee, Charles M., assignor.)
Eastman Kodak Company. (See Lowe, Wesley G., assignor.)
Eastman Kodak Company. (See Malm, C. J., and Bachman, assignors.)
Eastman Kodak Company. (See Mannes, L. D., and Godowsky, Jr., assignors.)
Eastman Kodak Company. (See Martin, Frederick C., assignor.)
Eastman Kodak Company. (See McNally, J. G., and Dickey, assignors.)
Eastman Kodak Company. (See Riddell, William A., assignor.)
Eastman Kodak Company. (See Rittenhouse, Charles G., assignor.)
Eastman Kodak Company. (See Seymour, M. W., and Chechak.)
Eastman Kodak Company. (See Seymour, M. W., Young, and Chechak, assignors.)
Eastman Kodak Company. (See Ure, William H., assignor.)
Eastman Kodak Company. (See Yule, John A. C., assignor.)
Ecklund, Charles. (See Lucarelle, J. M., and Ecklund.)
Eggers, John J. (See Starks, Benjamin, assignor.)
Egloff, Gustav, and C. G. Dryer, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,286,475; June 16.
Ehehalt, Charles A., Jr., White Plains, N. Y. Door sight. 2,286,353; June 16.
Ehrhardt, Earl V. (See Lea, W. A., and Ehrhardt.)
Ehrhart, Gustav. (See Böckmuhl, M., Ehrhart, Ruschig and Aumüller.)
Eickmeyer, Earl E., assignor to The Dayton Pump and Manufacturing Company, Dayton, Ohio. Gasoline dispensing pump. 2,286,476; June 16.
Eissner, Erich. (See Wickardt, K., Eissner and Verbeek.)
Eksergian, Rupen, Lansdowne, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Wheel truck. 2,286,608; June 16.
Electric & Musical Industries Limited. (See Browne, C. O., Blumlein, and Hardwick, assignors.)
Electric & Musical Industries Limited. (See White, E. L. C., and Chasmar, assignors.)
Electronic Laboratories, Incorporated. (See Brown, Harold J., assignor.)
Electronic Laboratories, Incorporated. (See Garstang, William W., assignor.)
Ellis, George H. (See Stanley, E., Ellis and Olpin.)
Elston, Arthur A. (See Reichert, J. S., Elston and Secord.)
Elwell-Parker Electric Company, The. (See Abbe, Edward J., assignor.)
Empire Metal Cap Co. Inc. (See Merolle, Augustus L., assignor.)
Engineering Laboratories, Inc. (See Green, W. G., and (Cooley, assignor).)
Enterprise Foundry Company. (See Hochn, Charles J. P., assignor.)
Ernst, Walter, Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc. Press with plate type frame. 2,286,721; June 16.
Evans, Benjamin. (See Tunstall, H. A., and Evans.)
Evans, Frank. (See Miller, J. H., and Evans.)
Evans, Richard W. (See Houser, L. R., and Evans.)
Everett, Samuel J., Thornton Heath, England. Manufacture of glass barrels for syringes and of like tubular articles. 2,286,401; June 16.
Ewald, Arno A., assignor to Romort Manufacturing Company, Oakfield, Wis. Hose reel. 2,286,904; June 16.
Ex-Cell-O Corporation. (See Gjertsen, Paul R., assignor.)
Ex-Cell-O Corporation. (See Martin, Charles, assignor.)
Fairbanks, Morse & Co. (See Butler, James E., assignor.)
Falk Corporation, The. (See Schwartz, Daniel M., assignor.)
Falls, Lorne S., Windsor, Ontario, Canada. Combined threading and facing device. 2,286,477; June 16.
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Circuit control means. 2,286,611; June 16.
Farnsworth, Philo T., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Manufacturing cathode-ray tube targets. 2,286,478; June 16.
Farnsworth Television and Radio Corporation. (See Farnsworth, Philo T., assignor.)
Farnsworth Television and Radio Corporation. (See Knox, Arthur L., assignor.)
Farny, Cyril, St. Charles, Ill., assignor to The Rudolph Wurlitzer Company, Cincinnati, Ohio. Plywood tubing. 2,286,267; June 16.
Farr, Morrill N., Los Angeles, Calif. Air filter panel. 2,286,479; June 16.
Farr, Morrill N., Los Angeles, Calif. Air purifier or conditioner. 2,286,480; June 16.
Farrand, Clair L., Larchmont, and H. S. Newcomer, New York, N. Y. Opaque apertured signal lens. 2,286,201; June 16.
Farrel-Birmingham Company. (See Gordon, William A., assignor.)
Farrel-Birmingham Company. (See Johnson, Emil H., assignor.)
Faw, Wendell G., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Stopping mechanism for yarn coning machines. 2,286,722; June 16.
Fergason, Rector C. (See Hyman, B. M., and Fergason.)
"Fides" Gesellschaft fur die Verwaltung und Verwertung von gewerblichen Schutzrechten, m. b. H. (See Mehler, Paul, assignor.)
Finnegan, George B., Jr. (See Durham, H. N., and Finnegan.)
Fischer, Philip A., New York, N. Y. Ventilated cap. 2,286,202; June 16.
Fisher, Henry C., assignor to Norton Company, Worcester, Mass. Induction furnace. 2,286,481; June 16.
Fitch, Hurshel H., assignor to Auburn, Ind. Line drive and feed for stokers. 2,286,268; June 16.
Fitzsimmons, Harold C., West Chester, assignor to The Sharples Corporation, Philadelphia, Pa. Centrifugal separator. 2,286,354; June 16.
Fitzsimmons, Harold C., West Chester, assignor to The Sharples Corporation, Philadelphia, Pa. Centrifugal separator. 2,286,355; June 16.
Fletcher, Fred W. (See Moyle, C. L., and Fletcher.)
Flory, Thomas W., Dunstable, England. Mold for concrete pathways. 2,286,612; June 16.
Flowers, Paul E., Mount Gilead, Ohio, assignor to The Hydraulic Development Corp., Inc., Wilmington, Del. Hydraulic circuit for press brakes. 2,286,798; June 16.
Fluidpoise Manufacturing Company. (See Parenti, Joseph S., assignor.)
Focke, Theodore B., Cleveland Heights, and A. K. Phelps, East Cleveland, assignors to Perfection Stove Company, Cleveland, Ohio. Safety pilot burner. 2,286,610; June 16.
Fonder, John F. (See Hoyt, John A., assignor.)
Food Machinery Corporation. (See Thomas, Joseph, assignor.)
Ford, Frank R., Sparkbrook, Birmingham, England. Duplicating machine. 2,286,402; June 16.
Fordon, William J., Elizabeth, N. J., assignor to R. Gringer, New York, N. Y. Saw. 2,286,530; June 16.
Forestal Land, Timber and Railways Company Limited, The. (See Phillips, R. O. and Rottsieper, assignors.)
Foster, Dudley E., South Orange, N. J., assignor to Radio Corporation of America. Frequency modulation receiver. 2,286,356; June 16.
Foster Wheeler Corporation. (See Keenan, W. F., Jr., and Frisch, assignors.)
Fox, Gerald B., assignor to The Hobart Manufacturing Company, Troy, Ohio. Washing machine. 2,286,203; June 16.
Fralick, Douglas S., Milwaukee, Wis. Method and mold for applying stucco on walls to represent stone. 2,286,531; June 16.
Frankfort Distilleries, Incorporated. (See Gaines, Frank M., assignor.)
Frederick, Kenneth L., Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Switching mechanism. 2,286,799; June 16.
Freed, Edward A., Moline, Ill. Motor support. 2,286,482; June 16.
Freer, Phelps M., Detroit, Mich. Friction coupling. 2,286,532; June 16.
Frisch, Martin. (See Keenan, W. F., Jr., and Frisch.)
Frost, Roy H., Fresno, assignor of one-fourth to E. J. Harp, Corcoran, Calif., one-fourth to L. F. Thornburgh, and one-fourth to H. I. Berg, Fresno, Calif. Self-loading vehicle. 2,286,723; June 16.

Fryer, Louis S. (See Kline, H. B., and Fryer.)
Fuller, Chauncey P., Berkeley, assignor by mesne assignments, to Pomona Pump Company, Pomona, Calif. Liquid supply system. 2,286,613; June 16.
Fupre, Philip. (See Gorsuch, Howard F., assignor.)
Gabrielsen, Christian, Belleville, N. J., assignor to Rowe Manufacturing Co., Inc., New York, N. Y. Coin selector. 2,286,614; June 16.
Gabrielsen, Christian, Belleville, N. J., assignor to Rowe Manufacturing Co., Inc., New York, N. Y. Vending machine. 2,286,905; June 16.
Gaines, Frank M., assignor to Frankfort Distilleries, Incorporated, Louisville, Ky. Bottle pouring spout. 2,286,906; June 16.
Gallagher, Edward G., Florence, Mass., assignor to E. Corbett, Chicago, Ill. Generating system for constant voltage at variable speed of prime mover. 2,286,185; June 16.
Galvin Manufacturing Corporation. (See Holthouse, Harry B., assignor.)
Galvin Manufacturing Corporation. (See Holthouse, Harry B., Jr., assignor.)
Gardner, Percy, Glen Ridge, N. J., and R. Kagan, Brooklyn, assignors to Lever Bias Machine Corporation, New York, N. Y. Sewing apparatus. 2,286,357; June 16.
Garrison, Allen D., Houston, Tex., assignor by mesne assignments, to The Texas Company, New York, N. Y. Treatment of oil wells. 2,286,724; June 16.
Garstang, William W., assignor to Electronic Laboratories, Incorporated, Indianapolis, Ind. Vibrator current-converting system. 2,286,846; June 16.
Garstang, William W., assignor to Electronic Laboratories, Incorporated, Indianapolis, Ind. Variable frequency vibrator current-converting system. 2,286,847; June 16.
Garstang, William W., assignor to Electronic Laboratories, Incorporated, Indianapolis, Ind. Vibrator. 2,286,848; June 16.
Garstang, William W., assignor to Electronic Laboratories, Incorporated, Indianapolis, Ind. Vibrator frequency changer. 2,286,849; June 16.
Gartelman, William C., Chicago, Ill. Match-book package. 2,286,533; June 16.
Gattuso, Peter F., Chicago, assignor to Woodstock Typewriter Company, Woodstock, Ill. Escapement mechanism. 2,286,403; June 16.
Gear Grinding Machine Company. (See Miller, Fred F., Jr., assignor.)
Gefri, Fred J., Irvington, N. J. Door latch. 2,286,674; June 16.
Geiger, George M., Mount Gilead, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del. Hydraulic control for variable delivery pumps. 2,286,358; June 16.
Gemberling, Cameron H., South Bend, Ind., assignor to Oliver Farm Equipment Company. Agricultural implement. 2,286,359; June 16.
General Aniline & Film Corporation. (See Weyde, E., and Trabert, assignors.)
General Controls Company. (See Ray, William A., assignor.)
General Electric Company. (See Dunham, George W., assignor.)
General Electric Company. (See Harrington, Richards H., assignor.)
General Electric Company. (See Herskind, Carl C., assignor.)
General Electric Company. (See Liebhafsky, Herman A., assignor.)
General Electric Company. (See McMahan, Kenton D., assignor.)
General Electric Company. (See Morton, L. W., and Herskind, assignors.)
General Electric Company. (See Patnode, Winton I., assignor.)
General Electric Company. (See Reid, Eugene H., assignor.)
General Electric Company. (See Rishor, George F., assignor.)
General Electric Company. (See Rochow, Eugene G., assignor.)
General Electric Company. (See Steenstrup, Carl H., assignor.)
General Electric Company. (See Wood, Alexander P., assignor.)
General Motors Corporation. (See Bacon, Elbridge F., assignor.)
General Motors Corporation. (See Chason, Ragnar, assignor.)
General Motors Corporation. (See Delaval-Crow, Thomas C., assignor.)
General Motors Corporation. (See Helgeby, Ralph O., assignor.)
General Motors Corporation. (See Hills, Arthur W., assignor.)
General Motors Corporation. (See Kucher, Andrew A., assignor.)
Gibbons, Charles J., assignor to The American Rolling Mill Company, Middletown, Ohio. Slitting crowned strip and mechanism therefor. 2,286,675; June 16.
Gibbs, Thomas B., Chicago, Ill. Watch timing apparatus. 2,286,907; June 16.
Gilmartin, James A., Scranton, Pa. Eye shade. 2,286,269; June 16.
Girdler Corporation, The. (See Jones, Lucian N., assignor.)
Girdler Corporation, The. (See Smith, Horace L., Jr., assignor.)
Givens, John H. (See Hegan, H. J., Givens, and Rose.)
Gjertsen, Paul R., assignor to Ex-Cell-O Corporation, Detroit, Mich. Tool supporting means. 2,286,360; June 16.
Globe American Corporation. (See Sherman, Alvin G., assignor.)
Goddard, Robert H., Roswell, N. Mex. Auxiliary turbine for rocket craft. 2,286,908; June 16.
Goddard, Robert H., Roswell, N. Mex. Combustion chamber. 2,286,909; June 16.
Goddu, Lloyd K., assignor to American Optical Company, Southbridge, Mass. Abrading machine. 2,286,361; June 16.
Godley, Edwin A., assignor to S. D. Leidesdorf & Co., New York, N. Y. Posting board. 2,286,676; June 16.
Godowsky, Leopold, Jr. (See Mannes, L. D., and Godowsky, Jr.)
Golden Leatherboard Co. (See Christy, Frank W., assignor.)
Goldner, George W., assignor to James R. Kearney Corporation, St. Louis, Mo. Electrical cutout. 2,286,534; June 16.
Goodloe, Paul M., 2nd, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Purification of sulphonic acid products. 2,286,725; June 16.
Gordon, Alvin J. (See Danley, G. L., and Gordon.)
Gordon, Wallace E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Flame proofing cellulosic material and products thereof. 2,286,726; June 16.
Gordon, William A., Shelton, assignor to Farrel-Birmingham Company, Inc., Ansonia, Conn. Treating rubber. 2,286,405; June 16.
Goldstein, Morris E., Denver, Colo. Miniature head guard. 2,286,535; June 16.
Gorn, Elmer J., Brookline, assignor to Raytheon Manufacturing Company, Newton, Mass. Arc welding device. 2,286,212; June 16.
Gorsuch, Howard F., assignor of one-half to P. Fupre, Mansfield, Ohio. Hydraulic motor. 2,286,537; June 16.
Gould, Marvin J., New Brunswick, N. J., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 2,286,483; June 16.
Graham Mfg. Co., The. (See Maynard, Joel P., assignor.)
Graham, Neta E. V., Kenton, England. Fastening device for garments. 2,286,850; June 16.
Gray Manufacturing Company, The. (See Clausen, Henry P., assignor.)
Greaves, Valentine F., Oakland, Calif. Partition means. 2,287,005; June 16.
Green, William G., and E. H. Cooley, said Cooley assignor to Engineering Laboratories, Inc., Tulsa, Okla. Telemetric device. 2,286,406; June 16.
Greenlee Bros. & Co. (See Abramson, J. H., and Swanson, assignors.)
Greenwood, Frances A. (See Sheffield, N. C., Greenwood, and Mackie.)
Greensfelder, Edward, et al., trustee. (See Rubinstein, Wilton, assignor.)
Greth, August S., Santa Cruz, Calif. Water heater. 2,286,677; June 16.
Greulich, Gerald G., Mt. Lebanon, Pa. Grating structure. 2,286,204; June 16.
Grey Iron Casting Company. (See May, Clyde W., assignor.)
Griffins, Morris E. (See Molnar, I., and Griffins.)
Griffith, Clement P., assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind. Gas vent valve for gas and liquid separators. 2,286,536; June 16.
Gringer, Rose. (See Fordon, William J., assignor.)
Griswold, Thomas, Jr., Midland, Mich. Flexible suspension. 2,286,615; June 16.
Grizey, George J., Canton, assignor to Veeder-Root Incorporated, Hartford, Conn. Tripping mechanism. 2,286,484; June 16.
Grober, Nathan H., Brooklyn, N. Y. Alternating current regulating system. 2,286,727; June 16.
Grubb, Gunnar, Stockholm, Sweden, assignor, by mesne assignments, to Servel, Inc., New York, N. Y. Heat transfer system. 2,286,205; June 16.
Grube, Hans. (See Zinti, E., and Grube.)
Gruss, George H., San Francisco, Calif. Stamp mill. 2,286,728; June 16.
Gubelmann, Ivan, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. N-alkenyl-aminophenols. 2,286,678; June 16.
Guler, George D., Philadelphia, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Air conditioning system. 2,286,538; June 16.
Gustin, Daniel S., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Time relay for fluorescent lamps. 2,286,800; June 16.
Haberberger, Edward. (See Burke, A. C., and Haberberger.)
Haberstump, Alfred H., assignor to The Murray Corporation of America, Detroit, Mich. Carpet sweeper. 2,286,270; June 16.

Haessler, Walter M., Jersey City, N. J., assignor to American Car and Foundry Company, New York, N. Y. Drop bottom mine car. 2,286,958; June 16.
Hagerstrom, Eric, New York, N. Y. Adjustable double hook support fixture. 2,286,539; June 16.
Haines, Archie J., Jordan, Ontario, Canada. Highway traffic post. 2,286,959; June 16.
Halbig, Paul, Fribourg, assignor to the firm Lonza Elektrizitätswerke und Chemische Fabriken Aktiengesellschaft (Gampel), Basle, Switzerland. Producing formic acid. 2,286,407; June 16.
Hall, Marchand B., assignor to Acme Visible Records, Inc., Chicago, Ill. Device for separating strip material. 2,286,960; June 16.
Hall, Vincent C., assignor to Eastman Kodak Company, Rochester, N. Y. Light modulation system. 2,286,729; June 16.
Hall, Vincent C., assignor to Eastman Kodak Company, Rochester, N. Y. Electric circuit for color correction. 2,286,730; June 16.
Hammann, Carl F., Boston, Mass., assignor to North American Holding Corporation, Syracuse, N. Y. Method of and machine for lasting boots and shoes. 2,286,362; June 16.
Hammett, David M. (See Kelly, J., and Hammett.)
Hanahan, Marion L., and R. M. McKinney, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Titanium pigment and producing the same. 2,286,910; June 16.
Hannewald, Burton A., Indianapolis, Ind., and A. M. Keller, Ferguson, Mo., assignors to Bemis Bro. Bag Co., Indianapolis, Ind. Apparatus for applying moisture resistant material to bags. 2,286,801; June 16.
Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Concentric resonant line. 2,286,408; June 16.
Hansen, Milton L. (See Morrill, T. L., Jr., and Hansen.)
Hanson, Lars, assignor to Carrier Corporation, Syracuse, N. Y. Air conditioning apparatus. 2,286,961; June 16.
Hanson, Milton E., Haddonfield, N. J., assignor to B. F. Sturtevant Company, Boston, Mass. Drying apparatus. 2,286,731; June 16.
Hanson, Oscar B., Westport, Conn., assignor to Radio Corporation of America. Television system. 2,286,540; June 16.
Hanson, Victor F., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Analysis of gas mixtures. 2,286,985; June 16.
Hardin, Joseph A., Sheffield, Ala. Electric furnace. 2,286,732; June 16.
Hardwick, John. (See Browne, C. O., Blumlein, and Hardwick.)
Harley, Stanley J., and J. E. Wainwright, Coventry, England. Forming or dressing grinding wheels used for form grinding. 2,286,409; June 16.
Harp, Edward J., et al. (See Frost, Roy H., assignor.)
Harper, Martin, Hoddesdon, assignor to Varley Sound Film System Limited, London, England. Apparatus for printing substandard film. 2,286,733; June 16.
Harrington, Richards H., Schenectady, N. Y., assignor to General Electric Company. Copper-cobalt-tin alloy. 2,286,734; June 16.
Harris, William A., Nutley, N. J., assignor to Radio Corporation of America. Frequency modulation receiver tuning indicator. 2,286,410; June 16.
Hart, Sterling P. (See Robinson, W. W., and Hart.)
Harvey, Leo M., Los Angeles, Calif. Blank cutting and feeding means for paper cup machines. 2,286,541; June 16.
Hathaway, Jarrett L. (See Lynn, R. A., and Hathaway.)
Hayes, Charles W., Bethesda, Md., assignor to Scholfield Service, Inc., New York, N. Y. Filing apparatus. 2,286,911; June 16.
Hazard Charles S., Andover, N. J., assignor to Neptune Meter Company. Adjustable rotary meter with compensating device. 2,286,411; June 16.
Heald Machine Company. (See McCabe, John J., assignor.)
Hechenbleikner, Ingenuin, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. α-1-naphthyl cinnamic nitrile. 2,286,363; June 16.
Hegan, Horace J., and J. H. Givens, Coventry, and L. Rose, Cheylesmore, Coventry, assignors to Courtaulds Limited, London, England. Manufacture and production of artificial threads and the like articles. 2,286,962; June 16.
Heilbron, Isidor M., London, F. Irving, Manchester, England, and R. P. Linstead, Cambridge, Mass., assignors to Imperial Chemical Industries Limited. Coloring matters of the phthalocyanine type. 2286,679; June 16.
Heinemann, Heinz, Pampa, Tex., assignor to the firm Danciger Oil & Refineries, Inc., Tulsa, Okla. Isomerization of normal paraffinic hydrocarbons. 2,286,542; June 16.
Heinemann, Heinz, Pittsburgh, Pa., assignor to the firm Danciger Oil & Refineries, Inc., Tulsa, Okla. Alkylating hydrocarbons. 2,286,543; June 16.
Helgeby, Ralph O., Flint, assignor to General Motors Corporation, Detroit, Mich. Warning signal. 2,286,735; June 16.
Hemphill Company. (See Cloutier, Arthur N., assignor.)
Hemphill Company. (See Lawson, R. H., and Cloutier, assignors.)
Hendrickson, Fred K., Worcester, assignor to Whitin Machine Works, Whitinsville, Mass. Roll tension device. 2,286,616; June 16.
Hendrickson, Fred K., Worcester, assignor to Whitin Machine Works, Whitinsville, Mass. Drawing frame. 2,286,617; June 16.
Henley's Telegraph Works Company Limited. (See Tunstall, H. A., and Evans, assignors.)
Henry, Earle G., Chicago, Ill., assignor to Buckley Music System, Inc. Wall box. 2,286,544; June 16.
Hercules Powder Company. (See Borglin, Joseph N., assignor.)
Hercules Powder Company. (See Ott, Emil, assignor.)
Hercules Powder Company. (See Ray, Philip A., assignor.)
Hercules Powder Company. (See Weldin, Lewis C., assignor.)
Herold, Edward W., Verona, N. J., assignor to Radio Corporation of America. Frequency modulation receiver tuning indicator. 2,286,412; June 16.
Herold, Edward W., Verona, and B. Salzberg, East Orange, N. J., assignors to Radio Corporation of America. Frequency modulation receiver tuning indicator circuits. 2,286,413; June 16.
Hersberger, Arthur B., Lansdowne, assignor to The Atlantic Refining Company, Philadelphia, Pa. Treatment of asphalt. 2,286,414; June 16.
Herskind, Carl C. (See Morton, L. W., and Herskind.)
Herskind, Carl C., Schenectady, N. Y., assignor to General Electric Company. Locking means for anode structures. 2,286,802; June 16.
Hess, David, assignor to K. Lowenberg, New York, N. Y. Fluorescent lamp. 2,286,851; June 16.
Hewel, Frank B., Pittsburgh, Pa. Battery connector. 2,286,415; June 16.
Higham, William W., assignor to Universal Cooler Corporation, Detroit, Mich. Heat transfer device. 2,286,271; June 16.
Higham, William W., assignor to Universal Cooler Corporation, Detroit, Mich. Sealed compressor. 2,286,272; June 16.
Hild, Frederic W., Los Angeles, Calif. Hydraulic gear transmission. 2,286,485; June 16.
Hill, Julian W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of dithiocarbamates. 2,286,738; June 16.
Hill, Rowland, and W. H. Krause, assignors to Chicago Forging & Manufacturing Company, Chicago, Ill. Hood latch and operating means therefor. 2,286,736; June 16.
Hill, William H., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Production of ammonium thiocyanate. 2,286,273; June 16.
Hill, William H., Mount Lebanon, Pa., assignor to American Cyanamid Company, New York, N. Y. Recovery of solid ferricyanides. 2,286,274; June 16.
Hill, Willie A., De Leon, Tex. Power mechanism for hay balers. 2,286,486; June 16.
Hiller, Nicolai H., Jr., Bronxville, assignor, by mesne assignments, to The Texas Company. Refrigerating process. 2,286,618; June 16.
Hills, Arthur W., Flushing, assignor to General Motors Corporation, Detroit, Mich. Color signal for speedometers. 2,286,737; June 16.
Hines, Claude M., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Locomotive sanding control apparatus. 2,286,680; June 16.
Hines, Claude M., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Wheel slip control apparatus. 2,286,681; June 16.
Hobart Manufacturing Company, The. (See Fox, Gerald B., assignor.)
Hoehn, Charles J. P., assignor to Enterprise Foundry Company, San Francisco, Calif. Disintegrating mill. 2,286,545; June 16.
Hokanson, Carl W. (See Hokanson, Charles J., assignor.)
Hokanson, Charles J., Jackson, assignor of one-half to C. W. Hokanson, Grass Lake, Mich. Wheel drag. 2,286,619; June 16.
Holback, George E. (See Costa, P. J., and Holback.)
Hollengreen, Milburn A., assignor to Landis Tool Company, Waynesboro, Pa. Steady rest adjusting means. 2,286,620; June 16.
Holm, Melvin M., assignor to Standard Oil Company of California, San Francisco, Calif. Solvent extraction of petroleum. 2,286,852; June 16.
Holmes, Henry H. (See Hurd, J. C. H., and Holmes.)
Holmstrom, John G., assignor to Kenworth Motor Truck Corporation, Seattle, Wash. Cane truck. 2,286,416; June 16.
Holt, Jessie I., Los Angeles, Calif. Eraser shield plate. 2,286,417; June 16.
Holthouse, Harry B., Chicago, Ill. Truck. 2,286,803; June 16.
Holthouse, Harry B., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Heater. 2,286,853; June 16.
Holthouse, Harry B., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Heater. 2,286,854; June 16.

Holthouse, Harry B., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Suction heater. 2,286,855; June 16.

Holthouse, Harry B., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Control apparatus. 2,286,856; June 16.

Holthouse, Harry B., Jr., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Liquid fuel conditioning means. 2,286,857; June 16.

Hood, E. Elliott, Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Backpedaling brake for velocipedes. 2,286,986; June 16.

Hood, Harrison P., and M. E. Nordberg, assignors to Corning Glass Works, Corning, N. Y. Treating borosilicate glasses. 2,286,275; June 16.

Hooven, Frederick J., Dayton, Ohio, assignor to Radio Corporation of America, New York, N. Y. Radio compass. 2,286,804; June 16.

Hopkins, Robert C., Alliance, Ohio. Purifying materials and using the same. 2,286,546; June 16.

Houdaille-Hershey Corporation. (See Magrum, Gervase M., assignor.)

Houser, Lloyd R., and R. W. Evans, Washington, D. C., assignors to Capital Tire and Safety Co., Inc., Newport News, Va. Puncture sealing compositions. 2,286,963; June 16.

Hoyt, John A., Glenview, assignor of one-half to J. F. Fonder, Evanston, Ill. Pole saw head. 2,286,418; June 16.

Hucks, Robert T., South River, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Sealing coating composition. 2,286,964; June 16.

Huddle, Edwin F., Chicago, Ill., assignor to International Harvester Company. Roller. 2,286,276; June 16.

Huddle, Edwin F., Chicago, Ill., assignor to International Harvester Company. Material reducing apparatus. 2,286,277; June 16.

Huddle, Edwin F., Chicago, Ill., assignor to International Harvester Company. Self loader. 2,286,278; June 16.

Huffman, Russell I. (See Dafforn, K. B., and Huffman.)

Huffman, Russell I., Dover, Ohio, assignor to Knapp-Monarch Company, St. Louis, Mo. Sadiron. 2,286,487; June 16.

Humphrey, Paul. (See Berger, B., and Humphrey.)

Hunt, Seymour, Flushing, N. Y., assignor to Radio Corporation of America. Frequency modulation converter. 2,286,997; June 16.

Hurd, John C. H., and H. H. Holmes, assignors to Wildt and Company Limited, Leicester, England. Circular knitting machine. 2,286,805; June 16.

Hurd, John C. H., and H. H. Holmes, assignors to Wildt and Company Limited, Leicester, England. Circular knitting machine of the double axially opposed needle cylinder type. 2,286,806; June 16.

Hurley, Roy T., Dobbs Ferry, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Pressure measuring apparatus. 2,286,621; June 16.

Hutchins, Hugh A., Los Angeles, Calif. Power take-off attachment. 2,286,547; June 16.

Hutchison, Miller R., Jr., assignor to Eastman Kodak Company, Rochester, N. Y. Flashlight synchronizing apparatus for cameras. 2,286,808; June 16.

Hutchison, Miller R., Jr., assignor to Eastman Kodak Company, Rochester, N. Y. Applying screws to work. 2,286,809; June 16.

Hydraulic Development Corporation, Inc. (See Ernst, Walter, assignor.)

Hydraulic Development Corp., Inc., The. (See Flowers, Paul E., assignor.)

Hydraulic Development Corp. Inc. (See Geiger, George M., assignor.)

Hydraulic Development Corp. Inc. (See Narten, David C., assignor.)

Hyman, Benjamin M., Moline, Ill., and R. C. Fergason, La Porte, Ind., assignors to International Harvester Company. Ear straightener for corn pickers. 2,286,279; June 16.

Iams, Harley A., Berkeley Heights, N. J., assignor to Radio Corporation of America. Electronic device. 2,286,280; June 16.

Imperial Chemical Industries Limited. (See Crawford, J. W. C., and McLeish, assignors.)

Imperial Chemical Industries Limited. (See Heilbron, I. M., Irving, and Linstead, assignors.)

Industrial Rayon Corporation. (See Kline, H. B., and Fryer, assignors.)

Ingels, Clarence W., St. Albans, N. Y. Level indicator for view finders. 2,286,810; June 16.

International Cigar Machinery Company. (See Wheeler, Henry, assignor.)

International Harvester Company. (See Huddle, Edwin F., assignor.)

International Harvester Company. (See Hyman, B. M., and Fergason, assignors.)

International Harvester Company. (See Kriegbaum, George M., assignor.)

International Harvester Company. (See Scarlett, A. A., and Young, assignors.)

International Paper Company. (See Lang, Frank J., assignor.)

International Paper Company. (See Nicholson, Gunnar W. E., assignor.)

International Paper Company. (See Tuten, Alvin, assignor.)

Interwoven Stocking Company. (See Miller, J. H., and Evans, assignors.)

Interwoven Stocking company. (See Thurston, Paul L., assignor.)

Iron Fireman Manufacturing Company. (See Carter, Haskell C., assignor.)

Irving, Francis. (See Heilbron, I. M., Irving, and Linstead.)

Jacob, Frederick N. (See Kirk, M. J., and Jacob.)

Jacobsen Manufacturing Company. (See Krenzke, William F., assignor.)

Jacks, Sylvanus O., San Francisco, Calif. Garment. 2,286,281; June 16.

Jackson, Charles R., Okay, assignor to Oliver United Filters Incorporated, San Francisco, Calif. Manufacturing Portland cement. 2,286,420; June 16.

Jackson, Charles T., Greenville, N. C. Tobacco curing system. 2,286,206; June 16.

Jackson, Hartley H., and L. Milgram, Kansas City, Kans. Check-out counter. 2,286,548; June 16.

James Manufacturing Company. (See Petraske, H. O., and Olson, assignors.)

Jayne, David W., Jr., Old Greenwich, and H. M. Day, Cos Cob, Conn., assignors to American Cyanamid Company, New York, N. Y. Guanyl urea salts of monoalkyl esters of sulphuric acid. 2,286,364; June 16.

Jeffrey Manufacturing Company, The. (See Briggs, Robert E., assignor.)

Joesting, Frederick D., Chicago, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control apparatus. 2,286,282; June 16.

Johannessen, Vaughn L., Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Making insulated electrical conductors. 2,286,807; June 16.

Johnson, Bror A. (See Olson, R. V., and Johnson.)

Johnson, Carl G. (See Wallin, F. E. A., and K. T. and C. G. Johnson.)

Johnson, David W., New Britain, assignor to The Arrow-Hart & Hegeman Electric Co., Hartford, Conn. Electric switch. 2,286,965; June 16.

Johnson, Emil H., assignor to Farrel-Birmingham Company, Inc., Ansonia, Conn. Refining rubber. 2,286,966; June 16.

Johnson, Kurt T. (See Wallin, F. E. A., and K. T. and C. G. Johnson.)

Johnson Laboratories, Inc. (See Kirk, M. J., and Jacob, assignors.)

Johnson, Lewis E., Arlington, Tex., assignor to Porcelain Products, Inc., Findlay, Ohio. Spool insulator. 2,286,488; June 16.

Johnson, Oliver W., assignor of one-half to Jay Carleton Kelley, Geneva, Ohio. Mouse trap. 2,286,912; June 16.

Jones, Daniel M., Irving, assignor to R. S. Moore, Grand Prairie, Tex. Liquid fuel burner. 2,286,489; June 16.

Jones & Lamson Machine Company. (See Cheever, Frank E., assignor.)

Jones, Lucian N., Richmond, Va., assignor, by mesne assignments, to The Girdler Corporation, Louisville, Ky. Treating pineapple. 2,286,998; June 16.

Jones, Samuel G., Princess Anne County, assignor to Berkley Machine Works & Foundry Company, Incorporated, Berkley, Norfolk, Va. Locomotive stoker. 2,286,622; June 16.

Jones, Walter L., Arlington, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Molding and like fastener and installation thereof. 2,286,988; June 16.

Kagan, Ralph. (See Gardner, P., and Kagan.)

Kahn, Mack, Cedarhurst, assignor to Artistic Foundations, Inc., New York, N. Y. Foundation garment. 2,286,186; June 16.

Kahn, Rudolph, New York, N. Y. Suction cleaner. 2,286,421; June 16.

Kalart Company, The. (See Schwartz, M., and Castedello, assignors.)

Kalichevsky, Vladimir A. (See Simpson, T. P., Kalichevsky, and Payne.)

Kalio, Inc. (See Wickardt, K., Eissner, and Verkeek, assignors.)

Kalle & Co. Aktiengesellschaft. (See Werner, Georg, assignor.)

Karabin, Edward V. (See Catalane, B. W., Karabin, and Sharbaugh.)

Katcher, Morris, New York, N. Y. Ball bearing. 2,286,422; June 16.

Kauffman, Walter L., II, assignor to Lovell Manufacturing Company, Erie, Pa. Wringer and the like. 2,286,811; June 16.

Kearney, Daniel P., Birmingham, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starter control. 2,286,989; June 16.

Kearney, James R., Corporation. (See Goldner, George W., assignor.)

Kearney, James R., Corporation. (See Mahr, Aloysius J., assignor.)

Keefe, Lincoln M., Springfield, Mass. Connecting device for tabulating machines. 2,286,812; June 16.

Keenan, Walter F., Jr., Pelham Manor, and M. Frisch, assignors to Foster Wheeler Corporation, New York, N. Y. Steam generator. 2,286,207; June 16.

Kellaher, Gillis C., Portland, Oreg., and H. D. Smith, Seattle, Wash., assignors to R. M. Wade & Co., Portland, Oreg. Fluid control means for portable irrigating systems. 2,286,623; June 16.

Keller, Anson M. (See Hannewald, B. A., and Keller.)

Keller, Rex E., Beverly Hills, Calif. Automatic transmission. 2,286,549; June 16.

Keller, William H., Inc. (See Radeke, Robert W., assignor.)

Kellogg, Edward W., Moorestown, N. J., assignor to Radio Corporation of America. Sound-producing and sound-reproducing apparatus. 2,286,742; June 16.

Kelley, Jay C. (See Johnson, Oliver W., assignor.)

Kelley, Thomas F., Galion, Ohio, deceased, Veronica Kelley, executrix. Grave vault. 2,286,813; June 16.

Kelley, Veronica. (See Kelley, Thomas F.)

Kelly, John C., and E. R. Brazie, Owosso, Mich. Paint mixer. 2,286,913; June 16.

Kelly, Judson, Rivera, and D. M. Hammett, assignors to Axelson Manufacturing Co., Los Angeles, Calif. Standing valve puller. 2,286,550; June 16.

Kemp, Lebbeus C., Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Manufacture of motor fuel. 2,286,814; June 16.

Kempf, Louis W., and W. A. Dean, Lakewood, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa. Aluminum base alloy. 2,286,624; June 16.

Kempf, Louis W., and W. A. Dean, Lakewood, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa. Aluminum base alloy. 2,286,625; June 16.

Kempf, Louis W., and W. A. Dean, Lakewood, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa. Aluminum base alloy. 2,286,626; June 16.

Kempf, Louis W., and W. A. Dean, Lakewood, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa. Aluminum base alloy. 2,286,627; June 16.

Kennedy, Harold A. (See Cuddihy, C. P., and Kennedy.)

Kenworth Motor Truck Corporation. (See Holmstrom, John G., assignor.)

Kepner, Robert C., Bloomsburg, Pa., assignor to American Car and Foundry Company, New York, N. Y. Mine car and truck therefor. 2,286,967; June 16.

Kidder, Frank W., Los Angeles, Calif. Photographic device. 2,286,628; June 16.

Kiersted, Wynkoop, Jr., Scarsdale, assignor, by mesne assignments, to The Texas Company, New York, N. Y. Recovering adsorbent materials. 2,286,815; June 16.

Kingsland, George D., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Temperature and humidity control system. 2,286,551; June 16.

Kinney Manufacturing Company. (See Livingston, Donald B., assignor.)

Kirchner, Henry P., assignor to The Carborundum Company, Niagara Falls, N. Y. Granular coated article and its manufacture. 2,286,208; June 16.

Kirk, Martin J., and F. N. Jacob, assignors to Johnson Laboratories, Inc., Chicago, Ill. Multiplying operating mechanism for permeability tuning purposes. 2,286,285; June 16.

Kirk, Roy C., assignor to The Dow Chemical Company, Midland, Mich. Production of magnesium. 2,286,209; June 16.

Kirkwood, Hugh F., Bucksport, Maine. Cigarette making device. 2,286,423; June 16.

Kirnberger, Frank J., Milwaukee, Wis. Switch for starter systems. 2,286,682; June 16.

Kirstein, Albert; Mason City, Wash. Combination pencil clip and self-winding tapeline. 2,286,424; June 16.

Kishline, Floyd F., assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Oil pump and filter. 2,286,816; June 16.

Kleist, Dale, and G. Slayter, Newark, Ohio, assignors, by mesne assignments, to Owens-Corning Fiberglas Corporation. Apparatus for making glass wool. 2,287,006; June 16.

Kleist, Dale, and G. Slayter, Newark, assignors, by mesne assignments, to Owens-Corning Fiberglas Corporation, Toledo, Ohio. Making glass wool. 2,287,007; June 16.

Klemm, William F. (See Minton, J. D., and Klemm.)

Klemperer, Hans, Belmont, and L. K. Marshall, Cambridge, assignors to Raytheon Manufacturing Company, Newton, Mass. Arc welding system and method. 2,286,210; June 16.

Kline, Hayden B., and L. S. Fryer, assignors to Industrial Rayon Corporation, Cleveland, Ohio. Drying thread or the like. 2,286,213; June 16.

Klose, Milton, Manitowoc, Wis. Motor driven grass shears. 2,286,552; June 16.

Knapp, Merton L., Valparaiso, Ind. Rowboat attachment. 2,286,914; June 16.

Knapp-Monarch Company. (See Braun, Gwilym S., assignor.)

Knapp-Monarch Company. (See Dafforn, K. B., and Huffman, assignors.)

Knapp-Monarch Company. (See Huffman, Russell I., assignor.)

Knight, William M., Minneapolis, Minn., assignor to The Personal Products Corporation, Milltown, N. J. Tampon. 2,286,817; June 16.

Knoebel, Walter C., Kirkwood, assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo. Piston expander. 2,286,858; June 16.

Knox, Arthur L., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Record changing apparatus. 2,286,490; June 16.

Kobler, Victor, and W. Kobler, Zurich, Switzerland. Motor. 2,286,629; June 16.

Kobler, Werner. (See Kobler, Victor, and Werner.)

Koca, James F., assignor to Woodstock Typewriter Company, Woodstock, Ill. Escapement mechanism. 2,286,404; June 16.

Koehring Company. (See Poulter, John W., assignor.)

Koehring Company. (See Sheck, Oscar, assignor.)

Koehring Company. (See Vaugh, George A., assignor.)

Koppers Company. (See Becker, Joseph, assignor.)

Korpi, Karl J. (See Bradley, W. E., and Korpi.)

Krause, Walter H. (See Hill, R., and Krause.)

Krause, Walter H., assignor to Chicago Forging & Manufacturing Company, Chicago, Ill. Automobile hood latch adjustable keeper. 2,286,739; June 16.

Krause, Walter H., assignor to Chicago Forging & Manufacturing Company, Chicago, Ill. Camming latch for alligator type hoods. 2,286,740; June 16.

Kremer, John, New York, N. Y. Self-lifting flatiron. 2,286,284; June 16.

Krenzke, William F., assignor to Jacobsen Manufacturing Company, Racine, Wis. Recoil starter for small motors. 2,286,419; June 16.

Kriegbaum, George M., Richmond, Ind., assignor to International Harvester Company. Making furrow opener boots. 2,286,285; June 16.

Krigbaum, Albert D., Columbus, Ohio. Safety razor. 2,286,553; June 16.

Krogh, Anker E., assignor to The Brown Instrument Company, Philadelphia, Pa. Control apparatus. 2,286,741; June 16.

Kucher, Andrew A., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,286,491; June 16.

Kuhn, Richard, and G. Wendt, Heidelberg, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Manufacture of adermin. 2,286,915; June 16.

La Bour, Harry E., Elkhart, Ind. Packing means for shafts. 2,286,425; June 16.

Ladd, Lawrence E., Dallas, Tex. Automatic fishing device. 2,286,743; June 16.

Lake, Allan M., Detroit, Mich., assignor to The L. S. Starrett Company, Athol, Mass. Magnifying point spotting hammer. 2,286,859; June 16.

Lame, Herman F. (See Pringle, M., and Lame.)

Landis Tool Company. (See Hollengreen, Milburn A., assignor.)

Landon, Walter S., and P. S. Russel, assignors to Detroit Lubricator Company, Detroit, Mich. Heating apparatus. 2,286,630; June 16.

Landt, Gustave E., Norristown, Pa., assignor to Continental-Diamond Fibre Company, Newark, Del. Continusuoly producing vulcanized fiber. 2,286,968; June 16.

Lane, Jack, Alhambra, Calif. Well pump. 2,286,365; June 16.

Lane, Olive W., Lynn, Mass. Movably connecting one member to another member. 2,286,969; June 16.

Lang, Frank J., Niagara Falls, assignor to International Paper Company, New York, N. Y. Internally refinishing hollow shells. 2,287,000; June 16.

Langille, Wilfred O., Chester, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Lens attachment for sewing machine lighting devices. 2,286,492; June 16.

Latta, Chester M. (See Bowman, W. V., and Latta.)

Lavarack, Frederick C., Montclair, N. J., assignor to Railroad Accessories Corporation, New York, N. Y. Track switch box stuffing box. 2,286,860; June 16.

Lawson, Oscar L., assignor to Lawson-Porter Shoe Machinery Corp., Lynn, Mass. Machine for finishing toplift edges. 2,286,214; June 16.

Lawson-Porter Shoe Machinery Corp. (See Lawson, Oscar L., assignor.)

Lawson, Robert H., Pawtucket, and A. N. Cloutier, Lonsdale, assignors to Hemphill Company, Central Falls, R. I. Knitting machine. 2,287,001; June 16.

Laystrom, Hilding A., and P. O. Persson, assignors to Quality Hardware and Machine Corporation, Chicago, Ill. Machine for testing metallic cartridge belt links. 2,286,286; June 16.

Lea, Walter A., Los Angeles, and E. V. Ehrhardt, Altadena, Calif. Orchard heater. 2,286,366; June 16.

Leatherman, Martin, Hyattsville, Md. Fireproofing. 2,286,744; June 16.

Leathers, Ward, Haworth, N. J., assignor to Quadrex Corporation, New York, N. Y. Vacuum cleaner nozzle. 2,286,818; June 16.

Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Wheel suspension for vehicles. 2,286,609; June 16.

Lee, Charles M., assignor to Eastman Kodak Company, Rochester, N. Y. Nonreflecting coating for glass. 2,286,819; June 16.

Lehmann, Herbert G., Wood-Ridge, N. J., assignor to Casco Products Corporation, Bridgeport, Conn. Coffee maker. 2,286,990; June 16.

Lehrman, Leo A., assignor to American Steel Foundries, Chicago, Ill. Snubber. 2,286,631; June 16.

Leidesdorf, S. D., & Co. (See Godley, Edwin A., assignor.)

Leiter, Harry H. (See Longfellow, Earl E., assignor.)

Lenehan, Bernard E., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Regulator. 2,286,820; June 16.

Le Roy, Walter E., and M. Phillips, Cincinnati, Ohio, assignors to Union Special Machine Company, Chicago, Ill. Sewing machine. 2,286,426; June 16.
Levensten, Harry L., Chicago, Ill. Box or chest for tools. 2,286,427; June 16.
Lever Bias Machine Corporation. (See Gardner, P., and Kagan, assignors.)
Libbey-Owens-Ford Glass Company. (See Lowry, Clyde D., assignor.)
Libby, Lloyd D., Minneapolis, Minn. Machine for cutting dies and the like. 2,286,821; June 16.
Lieberman, Edgar M., Merriam, Kans., assignor to E. W. Bacharach, Kansas City, Mo. Gravimetric feeder. 2,286,554; June 16.
Liebhafsky, Herman A., Schenectady, N. Y., assignor to General Electric Company. Heat treating process. 2,286,745; June 16.
Light, David M., assignor to American Steel Foundries, Chicago, Ill. Snubber. 2,286,861; June 16.
Linde Air Products Company, The. (See Aitchison, R. B., Burch and Swartout, assignors.)
Linde Air Products Company, The. (See Aitchison, R. B., Smith and Swartout, assignors.)
Linde Air Products Company, The. (See Aitchison, Robert B., assignor.)
Linde Air Products Company, The. (See Smith, George H., assignor.)
Linde Air Products Company, The. (See Williams, V. C., Burch, and Smith, assignors.)
Linstead, Reginald P. (See Heilbron, I. M., Irving, and Linstead.)
Little, M. S., Manufacturing Company, The. (See Simpson, William K., assignor.)
Livingston, Donald B., Beverly, assignor to Kinney Manufacturing Company, Jamaica Plain, Mass. Clutch. 2,286,862; June 16.
Livingston, Mayre D., Oxnard, Calif. Face shield. 2,286,287; June 16.
Lomax, Frank B., Chicago, Ill. Egg treating apparatus. 2,286,746; June 16.
Long, William, Waldo, Wis. Toilet seat and hinge combination. 2,286,555; June 16.
Longfellow, Earl E., assignor to H. H. Leiter, Warsaw, Ind. Fracture reducing apparatus. 2,286,556; June 16.
Lonza Elektrizitatswerke und Chemische Fabriken Aktiengesellschaft (Gampel). (See Halbig, Paul, assignor.)
Loomis, Demetrios P., Baltimore, Md. Tube closure. 2,286,916; June 16.
Lotz, Rudolph Wm. (See Zimmerman, F. R., and Lotz.)
Lovell Manufacturing Company. (See Kauffman, Walter L., II, assignor.)
Lover, Matthew J., Shreveport, La. Dental bite recorder. 2,286,288; June 16.
Low, James E. (See Newell, J. B., and Low.)
Lowe, Wesley G., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic silver halide emulsion. 2,286,215; June 16.
Lowenberg, Kate. (See Hess, David, assignor.)
Lowry, Clyde D., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Door construction. 2,286,493; June 16.
Lowry, Jesse R., Des Moines, Iowa. Valve for milking machines. 2,286,557; June 16.
Lucarelle, Joseph M., and C. Ecklund, Bridgeport, Conn., assignors to Dictaphone Corporation, New York, N. Y. Speed control mechanism. 2,286,187; June 16.
Luhrs, John F., Cleveland Heights, Ohio, assignor to Bailey Meter Company. Control system. 2,286,863; June 16.
Luhrs, John F., Cleveland Heights, Ohio, assignor to Bailey Meter Company. Measuring and controlling system. 2,286,864; June 16.
Lynn, Roland A., Teaneck, N. J., and J. L. Hathaway, Manhasset, N. Y., assignors to Radio Corporation of America. Sound translating system. 2,286,494; June 16.
Lyshaug, Olaf B., Quincy, Mass. String cutter. 2,286,289; June 16.
MacFadden, Wilford C., Philadelphia, Pa., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Fastener installation. 2,286,991; June 16.
Mackie, Lyba. (See Sheffield, N. C., Greenwood, and Mackie.)
MacLean, Allen D., assignor to Pittsburgh Equitable Meter Company, Pittsburgh, Pa. Fluid distribution system. 2,286,188; June 16.
Magnesium Development Corporation. (See Sauerwald, Franz, assignor.)
Magrum, Gervase M., Buffalo, N. Y., assignor, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich. Hydraulic shock absorber valving assembly. 2,286,290; June 16.
Magrum, Gervase M., Buffalo, N. Y., assignor, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich. Hydraulic shock absorber valve structure. 2,286,291; June 16.
Mahr, Aloysius J., assignor to James R. Kearney Corporation, St. Louis, Mo. Tool for connecting electrical conductors and the like. 2,286,558; June 16.
Mall, Arthur W., Flossmoor, Ill. Spindle assembly. 2,286,292; June 16.
Mall, Arthur W., Flossmoor, Ill. Grinding machine. 2,286,293; June 16.
Mallory, Marion, Detroit, Mich. Carburetor and charge control system for internal combustion engines. 2,286,294; June 16.
Malm, Carl J., and G. B. Bachman, assignors to Eastman Kodak Company, Rochester, N. Y. Recovery of cellulose esters from scrap. 2,286,822; June 16.
Mandl, Siegmund, assignor to Blackhawk Mfg. Co., Milwaukee, Wis. Ratchet socket. 2,286,917; June 16.
Mangold, Eli F., Dayton, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va. Fabricating a container. 2,286,367; June 16.
Mannes, Leopold D., New York, N. Y., and L. Godowsky, Jr., Westport, Conn., assignors to Eastman Kodak Company, Rochester, N. Y. Sound film. 2,286,747; June 16.
Manning, Maxwell & Moore, Inc. (See Smith, Ralph E., assignor.)
Mantz, Robert, Ozone Park, assignor to City Novelty Corporation, New York, N. Y. Pin element. 2,286,216; June 16.
Manufacturers Supplies Company. (See Coston, Elmer D., assignor.)
Manville, George D., Los Angeles, Calif. Detachable closet seat shell. 2,286,632; June 16.
Marker, Norman E. (See Barthel, O. E., and Marker.)
Marshall, Laurence K. (See Dawson, J. W., and Marshall.)
Marshall, Laurence K. (See Klemperer, H., and Marshall.)
Martin, Charles, assignor to Ex-Cell-O Corporation, Detroit, Mich. Rotary toolhead. 2,286,217; June 16.
Martin, Frederick C., assignor to Eastman Kodak Company, Rochester, N. Y. Dental X-ray package. 2,286,748; June 16.
Martin, Harold W., Malverne, N. Y., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del. Die for forming bottle caps. 2,286,865; June 16.
Martin, James L., Lowell, Mass. Pouring spout. 2,286,218; June 16.
Martinek, Anthony, Pittsburgh, Pa. Antidazzle device. 2,286,219; June 16.
Mascuch, Joseph J., Newark, N. J. Spark plug shielding. 2,286,918; June 16.
Mastrangelo, Frank, assignor to Angel Novelty Company, Fitchburg, Mass. Table top or the like construction. 2,286,295; June 16.
Matteson, Ralph D., Boise, Idaho. Arch support. 2,286,495; June 16.
May, Clyde W., Lancaster, assignor to Grey Iron Casting Company, Mount Joy, Pa. Game. 2,286,368; June 16.
Maynard, Joel P., Pawtucket, R. I., assignor to The Graham Mfg. Co., Inc. Machine for sharpening lawnmowers. 2,286,970; June 16.
Maytag Company, The. (See Smith, Thomas R., assignor.)
McAllister, Sumner H., Lafayette, assignor to Shell Development Company, San Francisco, Calif. Oxidation of alicyclic ketones. 2,286,559; June 16.
McBrian, Ray. (See Davis, John W., assignor.)
McCabe, John J., assignor to The Heald Machine Company, Worcester, Mass. Adjustable slotting tool. 2,286,633; June 16.
McCauley, John H., Hillside, N. J. Luminous electrical discharge device. 2,286,634; June 16.
McClelland, Harold L. (See Dyer, F. C., and McClelland.)
McCurdy, Howard, Walnut Park, Calif. Differential cell orbital flow fluid silencer. 2,286,683; June 16.
McDonald, John C., assignor to The Dow Chemical Company, Midland, Mich. Magnesium base alloy. 2,286,866; June 16.
McDonald, John C., assignor to The Dow Chemical Company, Midland, Mich. Magnesium base alloy. 2,286,867; June 16.
McDonald, John C., assignor to The Dow Chemical Company, Midland, Mich. Magnesium base alloy. 2,286,868; June 16.
McDonald, John C., assignor to The Dow Chemical Company, Midland, Mich. Magnesium base alloy. 2,286,869; June 16.
McDonald, John C., assignor to The Dow Chemical Company, Midland, Mich. Magnesium base alloy. 2,286,870; June 16.
McElgin, John, assignor to J. J. Nesbitt, Inc., Philadelphia, Pa. Air conditioning apparatus. 2,286,749; June 16.
McGarry, John T., Cincinnati, Ohio. Water column. 2,286,560; June 16.
McGrath, William L., St. Paul, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Temperature control system. 2,286,296; June 16.
McKee, Ralph H., New York, N. Y. Cellulose composition material. 2,286,220; June 16.
McKinney, Robert M. (See Hanahan, M. L., and McKinney.)
McKinney, Robert M. (See von Bichowsky, F., and McKinney.)
McLeish, Nancy. (See Crawford, J. W. C., and McLeish.)
McMahan, Kenton D., Scotia, N. Y., assignor to General Electric Company. Dynamoelectric machine. 2,286,750; June 16.
McMillan, Wallace A., Elmhurst, assignor, by mesne assignments, to The Texas Company, New York, N. Y. Solvent deasphalting and dewaxing. 2,286,823; June 16.

McNally, James G. (See Dickey, J. B., and McNally.)
McNally, James G., and J. B. Dickey, assignors to Eastman Kodak Company, Rochester, N. Y. Yarn treating. 2,286,824; June 16.
McNeill, Frederic, assignor to T. W. McNeill Engineering Equipment Co., Chicago, Ill. Liquid level indicator. 2,286,919; June 16.
McNeill, T. W., Engineering Equipment Co. (See McNeill, Frederic, assignor.)
McPhee, Chester. (See Richards, Joseph E., assignor.)
McQuay-Norris Manufacturing Company. (See Knoebel, Walter C., assignor.)
Mehler, Paul, assignor to "Fides" Gesellschaft fur die Verwaltung und Verwertung von gewerblichen Schutzrechten, m. b. H., Berlin, Germany. Arrangement for tuning parallel wire lines. 2,286,428; June 16.
Mercantile-Commerce Bank and Trust Company et al., trustee. (See Rubinstein, Wilton, assignor.)
Mercedes Buromaschinen-Werke Aktiengesellschaft. (See Anschutz, Robert, assignor.)
Merco Nordstrom Valve Company. (See Scherer, George F., assignor.)
Meredith, Frederick W., assignor to S. Smith & Sons (Motor Accessories) Limited, London, England. Automatic control apparatus for aircraft. 2,286,561; June 16.
Merolle, Augustus L., assignor to Empire Metal Cap Co. Inc., Brooklyn, N. Y. Sheet metal container. 2,286,221; June 16.
Merrick, Herbert L., deceased, late of Passaic, N. J., Katherine S. Merrick, executrix, assignor to Merrick Scale Mfg. Company, Passaic, N. J. Integrating means. 2,286,297; June 16.
Merrick, Katherine S., executrix. (See Merrick, Herbert L., deceased.)
Merrick Scale Mfg. Company. (See Merrick, Herbert L., assignor.)
Merrill, Patterson D., assignor to M. B. Skinner Company, South Bend, Ind. Pipe leak sealing sleeve. 2,286,751; June 16.
Merryweather, James, Greencastle, Ind. Hanger for conductor pipes. 2,286,562; June 16.
Metals Disintegrating Company. (See Shaw, J. D., and Revock, assignors.)
Meyer, Edwin M., Parkersburg, W. Va., assignor to Porcelain Products, Inc., Findlay, Ohio. Wire holder. 2,286,496; June 16.
Meyer, Henry C. A., Syracuse, N. Y., and E. F. Wesely, Chevy Chase, Md., assignors to United States Hoffman Machinery Corporation, New York, N. Y. Washing machine. 2,286,429; June 16.
Micell, James, and J. Teller, Chicago, and A. P. Schulz, Hinsdale, assignors to G. & J. Teller, Chicago, Ill. Pot type vaporizing oil burner. 2,286,497; June 16.
Mighton, Charles J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Resin. 2,286,752; June 16.
Milgram, Leonard. (See Jackson, H. H., and Milgram.)
Miller Company, The. (See De Lancey, Ralph W., assignor.)
Miller, E. B., Engineering Company, Inc. (See Miller Ernest B., assignor.)
Miller, Ernest B., Annapolis, Md., assignor to E. B. Miller Engineering Company, Inc. Air conditioning system. 2,286,920; June 16.
Miller, Fred F., Jr., Ferndale, assignor to Gear Grinding Machine Company, Hamtramck, Mich. Universal joint. 2,286,498; June 16.
Miller, James R., assignor to Bocil Corporation, Pittsburgh, Pa. Purifying oil. 2,286,369; June 16.
Miller, John H., and F. Evans, Martinsburg, W. Va., assignors to Interwoven Stocking Company, New Brunswick, N. J. Hosiery. 2,286,753; June 16.
Miller, Lloyd E., Cleveland, Ohio, assignor to The Reliance Electric & Engineering Company. Electrical control systems. 2,286,370; June 16.
Miller, Mike A., New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa. Aluminum soldering flux. 2,286,298; June 16.
Miller, Raymond E., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Rear end brake valve. 2,286,684; June 16.
Mills Novelty Company. (See Dolinig, Dolphus O., assignor.)
Mine Safety Appliances Company. (See Catalane, B. W., Karabin, and Sharbaugh, assignors.)
Minich, Verne E., Scarsdale, N. Y., assignor to The American Foundry Equipment Company, Mishawaka, Ind. Abrasive throwing machine. 2,286,754; June 16.
Minneapolis-Honeywell Regulator Company. (See Crawford, Robert B. P., assignor.)
Minneapolis-Honeywell Regulator Company. (See Guler, George D., assignor.)
Minneapolis-Honeywell Regulator Company. (See Joesting, Frederick D., assignor.)
Minneapolis-Honeywell Regulator Company. (See Kingsland, George D., assignor.)
Minneapolis-Honeywell Regulator Company. (See McGrath, William L., assignor.)
Minneapolis-Honeywell Regulator Company. (See Pond, Bertram P., assignor.)
Minneapolis-Honeywell Regulator Company. (See Snook, Edwin, assignor.)
Minton, John D., and W. F. Klemm, Detroit, Mich., said Minton assignor to said Klemm. Comparison microscope. 2,286,430; June 16.
Mittelmann, Eugen, Chicago, Ill. Rectifier. 2,286,499; June 16.
Molloy, James F., Oakland, Calif. Retarded self-closing valve. 2,286,371; June 16.
Molnar, Imre, Chicago, and M. E. Griffins, Riverside, assignors to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,286,431; June 16.
Monsanto Chemical Company. (See Sibley, Robert L., assignor.)
Monsarrat, Nicholas, East Providence, assignor to Pantex Pressing Machine, Inc., Central Falls, R. I. Closed dry cleaning system. 2,286,432; June 16.
Montgomery, Francis E., Des Moines, Iowa. Self-aligning bearing construction. 2,286,825; June 16.
Montgomery, James E., Highland Park, Mich. Drawing compound. 2,286,433; June 16.
Moore, Richard S. (See Jones, Daniel M., assignor.)
Mooty, Ross H., Sr. (See Yearta, Alton B., assignor.)
Morehouse, Eugene, Providence, R. I., assignor to B. A. Ballou & Co., Inc. Safety catch. 2,286,635; June 16.
Morrill, Thomas L., Jr., Oakland, and M. L. Hansen, Albany, assignors to The Paraffine Companies, Inc., San Francisco, Calif. Package of linoleum. 2,286,500; June 16.
Morris, Ivey C., Lowell, N. C. Starter switch for motor vehicles. 2,286,921; June 16.
Morrison, James J., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Portable power cable. 2,286,826; June 16.
Morrison, James J., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Electric cable and manufacture. 2,286,827; June 16.
Mortensen, Soren H., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Lead connection for dynamoelectric machines. 2,286,871; June 16.
Morton, Lysle W., and C. C. Herskind, Schenectady, N. Y., assignors to General Electric Company. Anode locking system. 2,286,755; June 16.
Moseley, Francis L., Chevy Chase, Md., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Antihunt position control system. 2,287,002; June 16.
Mossberg Pressed Steel Corporation. (See Olson, R. V., and Johnson, assignors.)
Moxley, William M., Kansas City, Mo. Combined battery retainer and bulb carrier for electric lanterns. 2,286,685; June 16.
Moyle, Clarence L., and F. W. Fletcher, assignor to The Dow Chemical Company, Midland, Mich. Insecticidal composition. 2,286,222; June 16.
Muddiman, Earll R., Wilkinsburg, Pa. Apparatus for rejecting defective metallic sheets. 2,286,686; June 16.
Mullen, James T., assignor to The Dyment Company, Cleveland, Ohio. Display sign. 2,286,756; June 16.
Muller, John A., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. Extrusion machine. 2,286,922; June 16.
Murphy, Howard J., Greenwood, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Latch mechanism. 2,286,992; June 16.
Murray, Charles W., Glenside, Pa., assignor to C. R. Wickard, as Secretary of Agriculture of the United States of America, and his successors in office. Insecticide. 2,286,636; June 16.
Murray Corporation of America, The. (See Haberstump, Alfred H., assignor.)
Murray Manufacturing Corporation. (See Murray, T. E., and Phelps (assignors).)
Murray-Ohio Mfg. Co. (See Brooks, Everett E., assignor.)
Murray, Thomas E., Brooklyn, and G. H. Phelps, Floral Park, said Phelps assignor, to Murray Manufacturing Corporation, and said Murray assignor to Yarrum, Inc., Brooklyn, N. Y. Hollow shell. 2,286,971; June 16.
Mussey, William H., assignor to Pullman-Standard Car Manufacturing Company. Car truck. 2,286,563; June 16.
Myers, Bruce, and F. Tresca, Brooklyn, N. Y. Filter. 2,286,434; June 16.
Myers, Hansford J., Long Beach, Calif. Automatic gripping device for stepladders. 2,286,923; June 16.
Nabstedt, Arthur T., Hamden, assignor to The Snow & Petrelli Manufacturing Company, New Haven, Conn. Reverse gear. 2,286,223; June 16.
Nachman Spring-filled Corporation. (See Zimmerman, F. R., and Lotz, assignors.)
Naftali, Valentine, assignor to American Machine & Foundry Company, New York, N. Y. Making neckties. 2,286,224; June 16.
Nagin, Leon, Pittsburgh, assignor to Reliance Steel Products Company, McKeesport, Pa. Grating installation. 2,286,757; June 16.
Narten, David C., assignor to The Hydraulic Development Corp. Inc., Mount Gilead, Ohio. Injection chamber heating apparatus. 2,286,501; June 16.
Nash-Kelvinator Corporation. (See Benzick, A., and Rusch, assignors.)
Nash-Kelvinator Corporation. (See Kishline, Floyd F., assignor.)

Nash-Kelvinator Corporation. (See Wahlberg, Nils E., assignor.)
Nash, Will E., Jr., Lincoln, Nebr. Renovating of paint brushes. 2,286,972; June 16.
Nassau Smelting & Refining Company. (See Stack, James R., assignor.)
National Colortype Company, The. (See Ryder, Charles D., assignor.)
Naul, James M., Fanwood, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Field-core holding means for electric motors. 2,286,993; June 16.
Nelson, Laurence A., Birmingham, assignor to Yellow Truck & Coach Manufacturing Company, Pontiac, Mich. Air conditioning system. 2,286,758; June 16.
Neo-Lectro Corporation. (See Proctor, G. A., and Pafenbach, assignors.)
Neptune Meter Company. (See Hazard, Charles S., assignor.)
Nerney, George E., assignor to Bay State Optical Company, Attleboro, Mass. Eyeglass frame construction and making the same. 2,286,435; June 16.
Nesbitt, John J., Inc. (See McElgin, John, assignor.)
Newcomer, Harry S. (See Farrand, C. L., and Newcomer.)
Newell, Charles E., Atlanta, Ga. Core mold for use with concrete forms. 2,286,564; June 16.
Newell, John B., and J. E. Low, Monument, N. Mex. Automatic auxiliary flow bean. 2,286,299; June 16.
Newman, Max M., New York, N. Y. Hair curler. 2,286,637; June 16.
Newman, Max M., New York, N. Y. Hair curler. 2,286,638; June 16.
Newton, Noel B., Acton, London, England. Clutch plate. 2,286,502; June 16.
Nichols Engineering & Research Corporation. (See Rowen, Robert W., assignor.)
Nichols, Ralph G. (See Clarke, A. W., and Nichols.)
Nichols, Ralph G., St. Charles, Mo., assignor to American Car and Foundry Company, New York, N. Y. Centering device and cushion for buffer stems. 2,286,973; June 16.
Nicholson, Gunnar W. E., Panama City, Fla., assignors, by mesne assignments, to International Paper Company, New York, N. Y. Manufacture of sheet material. 2,286,924; June 16.
Nocar, Edward C., assignor to The Permold Company, Cleveland, Ohio. Molding apparatus. 2,286,994; June 16.
Nolde and Horst Company, The. (See Wagenhorst, Lester D., assignor.)
Nordberg Manufacturing Company. (See Symons, Loren G., assignor.)
Nordberg, Martin E. (See Hood, H. P., and Nordberg.)
North American Holding Corporation. (See Hammann, Carl F., assignor.)
Northern Stevedores, Inc. (See Settersten, Francis E., assignor.)
Northwestern Steel and Wire Company. (See Bradley, Albert F., assignor.)
Northwestern Steel and Wire Company. (See Dillon, Paul W., assignor.)
Norton, Charles E., Evanston, assignor to Norton-McMurray Manufacturing Company, Chicago, Ill. Universal pipe joint fitting. 2,286,565; June 16.
Norton, Charles E., Evanston, assignor to Norton-McMurray Manufacturing Company, Chicago, Ill. Pipe connection. 2,286,566; June 16.
Norton Company. (See Fisher, Henry C., assignor.)
Norton-McMurray Manufacturing Company. (See Norton, Charles E., assignor.)
Noyes, Harry A., Waban, Mass., assignor by mesne assignments, to Z Pack Corporation, Jersey City, N. J. Freezing process. 2,286,225; June 16.
Ochs, William F., Milltown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Fingernail enamel remover. 2,286,687; June 16.
Ocon, Ernest A., Yonkers, N. Y. Process for segregating hydrocarbons. 2,286,503; June 16.
Odell, Malcolm P., East Cleveland, assignor to The Brush Development Company, Cleveland, Ohio. Piezoelectric temperature compensating circuit. 2,286,436; June 16.
Odell, Malcolm P., assignor to The Brush Development Company Cleveland, Ohio. Piezoelectric temperature compensating circuit. 2,286,437; June 16.
Okonite-Callender Company, The. (See Bennett, Charles E., assignor.)
Old Dominion Box Company. (See Becker, Walter A., assignor.)
Oleksiw, Jerome J., Shamokin, Pa., assignor to American Car and Foundry Company, New York, N. Y. Balanced door roller lift mechanism. 2,286,974; June 16.
Oliver Farm Equipment Company. (See Gemberling, Cameron H., assignor.)
Oliver United Filters Incorporated. (See Chalmers, James M., assignor.)
Oliver United Filters Incorporated. (See Jackson, Charles R., assignor.)
Olpin, Henry C. (See Stanley, E., Ellis and Olpin.)
Olpin, Henry C., Spondon, near Derby, England, assignor to Celanese Corporation of America. Azo dye. 2,286,304; June 16.
Olson, John B. (See Petraske, H. O., and Olson.)
Olson, Robert V., and B. A. Johnson, Attleboro, Mass., assignors to Mossberg Pressed Steel Corporation. Head for spools, reels, beams, or beamheads. 2,286,640; June 16.
Ott, Emil, Elsmere, assignor to Hercules Powder Company, Wilmington, Del. Tobacco product. 2,286,639; June 16.
Ottoson, Carl C., Staten Island, N. Y. Drive for refuse loaders. 2,286,925; June 16.
Outcalt, Dale E., Flat Rock, Ill., assignor of twenty-five per cent to L. M. Outcalt and twenty-five per cent to N. E. Outcalt, Montpelier, Ind. Traveling cup and stuffing box. 2,286,300; June 16.
Outcalt, Lloyd M., et al. (See Outcalt, Dale E., assignor.)
Outcalt, Norman E., et al. (See Outcalt, Dale E., assignor.)
Owens-Corning Fiberglas Corporation. (See Coumbe, F. R., and Romig, assignors.)
Owens-Corning Fiberglas Corporation. (See Dockerty, Stuart M., assignor.)
Owens-Corning Fiberglas Corporation. (See Kleist, D., and Slayter, assignors.)
Owens-Corning Fiberglas Corporation. (See Siegfreid, Claus, assignor.)
Padva, Philip, assignor to Cannon & Co., Los Angeles, Calif. Oscillation control means. 2,286,641; June 16.
Pafenbach, Chester A. (See Proctor, G. A., and Pafenbach.)
Page, Richard W., Chappaqua, N. Y. Adjustable chair. 2,286,372; June 16.
Pancake, Herman H. (See Bogard, F. J., and Pancake.)
Pantex Pressing Machine, Inc. (See Monsarrat, Nicholas, assignor.)
Paraffine Companies, Inc., The. (See Morrill, T. L., Jr., and Hansen, assignors.)
Parenti, Joseph S., assignor to The Fluidpoise Manufacturing Company, Inc., Buffalo, N. Y. Pumping mechanism. 2,286,926; June 16.
Parish, Willard E., Syracuse, N. Y. Rotary chuck. 2,286,927; June 16.
Parker, Farrand D., assignor to Union Oil Company of California, Los Angeles, Calif. Alkylation of isoparaffins. 2,286,504; June 16.
Parker Pen Company, The. (See Tefft, I. D, and Baker, assignors.)
Parr, Josephus O., Jr., assignor to O. S. Petty, San Antonio, Tex. Seismic surveying. 2,286,567; June 16.
Parsons, Ben G., Detroit, Mich., assignor to American Bosch Corporation, Springfield, Mass. Liquid pump. 2,286,301; June 16.
Parsons, Ben G., Detroit, Mich., assignor to American Bosch Corporation, Springfield, Mass. Liquid pump. 2,286,302; June 16.
Patnode, Winton I., Schenectady, N. Y., assignor to General Electric Company. Making insulated wire of small or irregular cross-section. 2,286,759; June 16. 2,286,759; June 16.
Payne, John W. (See Simpson, T. P., Kalichevsky and Payne.)
Pearson, Alan H., Detroit, Mich. Can opener. 2,286,303; June 16.
Pendleton, Pyam L., Cranston, R. I., assignor to Henry L. Scott Company. Magnetically controlled load testing machine. 2,286,642; June 16
Perfection Stove Company. (See Focke, T. B., and Phelps, assignors.)
Perkins, John L., Arlington, assignor to B. B. Chemical Co., Boston, Mass. Polymerized chloroprene adhesive. 2,286,505; June 16.
Permold Company, The. (See Nocar, Edward C., assignor.)
Personal Products Corporation, The. (See Knight, William M., assignor.)
Persson, Per O. (See Laystrom, H. A., and Persson.)
Peters, Frederick C. (See Arthur, Alexander F., assignor.)
Peterson, Carl H., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Clutch. 2,286,760; June 16.
Petraske, Harry O., and J. B. Olson, assignors to James Manufacturing Company, Fort Atkinson, Wis. Trip mechanism for loose tine grapple hay fork. 2,286,975; June 16.
Petry, Albert C., Anderson, Ind. Insect destroyer. 2,286,568; June 16.
Petty, Olive S. (See Parr, Josephus O., Jr., assignor.)
Phelps, Allen K. (See Focke, T. B., and Phelps.)
Phelps, George H. (See Murray, T. E., and Phelps.)
Philadelphia Gear Works, Inc. (See Bruckel, J. J., and Plume, assignors.)
Phillips, Manly. (See Le Roy, W. E., and Phillips.)
Phillips, Ralph O., Ridgewood, N. J., and E. H. W. Rottsieper, assignors to The Forestal Land, Timber and Railways Company Limited, Epson, England. Molding compositions from naturally occurring cellulosic materials and preparing the same. 2,286,643; June 16.
Piper, Elden H., Manchester, assignor to Veeder-Root Incorporated, Hartford, Conn. Registering mechanism driving and reset means interlock. 2,286,506; June 16.
Pipkin, William L., Jr., Chicago, Ill. Diesel fuel injector pump. 2,286,928; June 16.
Pittsburgh Equitable Meter Company. (See MacLean, Allen D., assignor.)
Plume, William F. (See Bruckel, J. J., and Plume.)
Pneumatic Scale Corporation, Limited. (See Whitehead, Arthur F., assignor.)
Pollack, Leon, Brooklyn, N. Y. Producing light polarizing bodies. 2,286,569; June 16.
Pollack, Leon, Brooklyn, N. Y. Visibility control by means of polarization effects. 2,286,570; June 16.

Pollard, Willard L. V., Evanston, Ill. Position-controlling apparatus. 2,286,571; June 16.
Pomona Pump Company. (See Fuller, Chauncey P., assignor.)
Pond, Bertram P., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Liquid level responsive device. 2,286,929; June 16.
Porcelain Products, Inc. (See Johnson, Lewis E., assignor.)
Porcelain Products, Inc. (See Meyer, Edwin M., assignor.)
Poulter, John W., assignor to Koehring Company, Milwaukee, Wis. Machine for supplying treatment material to voids beneath pavement structures. 2,286,761; June 16.
Priestley, Kenneth D., San Jose, Calif. Irrigation ridger. 2,286,305; June 16.
Pringle, Mark, Amsterdam, and H. F. Lame, Albany, N. Y., assignors of thirty-three and one-third per cent to G. A. Brace. Method and apparatus for processing potatoes. 2,286,644; June 16.
Prizer, Eugene L., Solana Beach, Calif. Apparatus for supplying soluble agents to liquids. 2,286,828; June 16.
Proctor, George A., and C. A. Pafenbach, assignors to Neo-Lectro Corporation, Los Angeles, Calif. Animated sign. 2,287,003; June 16.
Pullman-Standard Car Manufacturing Company. (See Mussey, William H., assignor.)
Quadrex Corporation. (See Leathers, Ward, assignor.)
Quality Hardware and Machine Corporation. (See Laystrom, H. A., and Persson, assignors.)
Quinn, George W., Reedsburg, Wis. Door operating mechanism. 2,286,572; June 16.
Quinn, Hubert, North Providence, R. I. Noncollapsible pneumatic tire. 2,286,507; June 16.
Rabinow, David, Elizabeth, assignor to Conmar Products Corporation, Newark, N. J. Locking slider. 2,286,373; June 16.
Rackett, Gerald F., Los Angeles, assignor to Technicolor Motion Picture Corporation, Hollywood, Calif. Projecting color pictures. 2,286,930; June 16.
Radeke, Robert W., assignor to W. H. Keller, Inc., Grand Haven, Mich. Cutter for dressing electrodes in spot welding machines. 2,286,931; June 16.
Radio Corporation of America. (See Dickinson, Allan B., assignor.)
Radio Corporation of America. (See Foster, Dudley E., assignor.)
Radio Corporation of America. (See Hansell, Clarence W., assignor.)
Radio Corporation of America. (See Hanson, Oscar B., assignor.)
Radio Corporation of America. (See Harris, William A., assignor.)
Radio Corporation of America. (See Herold, Edward W., assignor.)
Radio Corporation of America. (See Herold, E. W., and Salzberg, assignors.)
Radio Corporation of America. (See Hooven, Frederick J., assignor.)
Radio Corporation of America. (See Hunt, Seymour, assignor.)
Radio Corporation of America. (See Iams, Harley A., assignor.)
Radio Corporation of America. (See Kellogg, Edward W., assignor.)
Radio Corporation of America. (See Lynn, R. A., and Hathaway, assignors.)
Radio Corporation of America. (See Roberts, Walter Van B., assignor.)
Radio Corporation of America. (See Sachtleben, Lawrence T., assignor.)
Radio Corporation of America. (See Schock, Robert E., assignor.)
Radio Corporation of America. (See Trevor, Bertram, assignor.)
Railroad Accessories Corporation. (See Lavarack, Frederick C., assignor.)
Ralston, Anderson W., and R. J. Vander Wal, assignors to Armour and Company, Chicago, Ill. Mercurated aryl-alkyl ketones. 2,286,226; June 16.
Ralston, Walter E., Delavan, Wis., assignor to The George W. Borg Corporation, Chicago, Ill. Knitting machine and method. 2,286,227; June 16.
Ramsey, De Witt, Coral Gables, Fla. Door mounting. 2,286,573; June 16.
Randolph, Clifford F., Brooklyn, N. Y., assignor to American Machine & Foundry Company. Cigarette machine tobacco feed. 2,286,306; June 16.
Ray, Charles T., assignor to B. F. Avery and Sons Company, Louisville, Ky. Mower. 2,286,872; June 16.
Ray, Philip A., assignor to Hercules Powder Company, Wilmington, Del. Flotation process. 2,286,374; June 16.
Ray, William A., Los Angeles, Calif. Safety switch. 2,286,375; June 16.
Ray, William A., Glendale, Calif., assignor to General Controls Company. Control system. 2,286,376; June 16.
Raytheon Manufacturing Company. (See Dawson, J. W., and Marshall, assignors.)
Raytheon Manufacturing Company. (See Gorn, Elmer J., assignor.)
Raytheon Manufacturing Company. (See Klemperer, H., and Marshall, assignors.)
Redler Conveyor Company. (See Schroeder, Arthur C., assignor.)
Reichel, Frank H., and A. O. Russell, assignors to Sylvania Industrial Corporation, Fredericksburg, Va. Process and apparatus for producing articles and the products produced. 2,286,645; June 16.
Reichert, Joseph S., A. A. Elston and R. A. Secord, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Purification of acetic acid. 2,286,995; June 16.
Reid, Eugene H., Schenectady, N. Y., assignor to General Electric Company. Anode locking means. 2,286,829; June 16.
Reinecke, Kai, Brooklyn, N. Y. Ink bottle. 2,286,646; June 16.
Reiter, Daniel I., New York, N. Y. Garment fastener. 2,286,438; June 16.
Reliance Electric & Engineering Company, The. (See Miller, Lloyd E., assignor.)
Reliance Steel Products Company. (See Nagin, Leon, assignor.)
Replogle, Harry H., Scarsdale, N. Y., assignor to Sylvania Industrial Corporation, Fredericksburg, Va. Article and making the same. 2,286,307; June 16.
Republic Steel Corporation. (See Sower, George W., assignor.)
Ressinger, Paul M., Chicago, Ill. Display case and shelf therefor. 2,286,830; June 16.
Ressinger, Paul M., Chicago, Ill. Display support. 2,286,831; June 16.
Revock, Walter N. (See Shaw, J. D., and Revock.)
Rheinfels, Walter C., Maywood, assignor to W. C. Ritchie and Company, Chicago, Ill. Capped receptacle. 2,286,508; June 16.
Richards, Joseph E., assignor of one-half to Chester McPhee, San Francisco, Calif. Wax applicator. 2,286,257; June 16.
Richards, Oscar W., Snyder, assignor to Spencer Lens Company, Buffalo, N. Y. Camera. 2,286,977; June 16.
Richards, William H., Dayton, Ohio. Portable film developing apparatus. 2,286,229; June 16.
Richter, Ewald, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Yieldable antenna pole. 2,286,439; June 16.
Riddell, William A., assignor to Eastman Kodak Company, Rochester, N. Y. Photoflash synchronizing device. 2,286,832; June 16.
Ripper, Kurt E., Bronxville, assignor to American Cyanamid Company, New York, N. Y. Modified dicyandiamide condensation product. 2,286,228; June 16.
Rishor, George F., Peterborough, Ontario, Canada, assignor to General Electric Company. Coated rubber article. 2,286,762; June 16.
Riszdorfer, Ödön, Budapest, Hungary. Photographic apparatus. 2,286,833; June 16.
Ritchie, W. C., and Company. (See Rheinfels, Walter C., assignor.)
Rittenhouse, Charles G., assignor to Eastman Kodak Company, Rochester, N. Y. Leaderstrip for cinematographic film. 2,286,834; June 16.
Rivera, Antonio, Mexico City, Mexico. Apparatus for pressing and coating liners in crown caps. 2,286,978; June 16.
Roberts, Dudley, New York, and R. C. Bascom, Merrick, assignors to Rubatex Products, Inc., New York, N. Y. Gassing rubber. 2,286,230; June 16.
Roberts, Harold, Timperley, England. Securing wallboards in position. 2,286,976; June 16.
Roberts, Walter van B., Princeton, N. J., assignor to Radio Corporation of America. Frequency modulation receiver. 2,286,377; June 16.
Roberts, Walter van B., Princeton, N. J., assignor to Radio Corporation of America. Frequency modulated wave detector. 2,286,378; June 16.
Roberts, William V., Oakland, assignor to California Container Corporation, Emeryville, Calif. Container. 2,286,647; June 16.
Robinson, Harold A., assignor to The Dow Chemical Company, Midland, Mich. Purification of ethyl chloride. 2,286,379; June 16.
Robinson, William W., Los Angeles, and S. P. Hart, Long Beach, Calif., assignors, by mesne assignments, to The Texas Company, New York, N. Y. Well drilling and completion. 2,286,835; June 16.
Roblin, Richard O., Jr., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Alkyl naphthylmethyl cyanamides. 2,286,380; June 16.
Roby, Sheldon S., Meriden, assignor to The Stanley Works, New Britain, Conn. Door operating mechanism. 2,286,509; June 16.
Rochow, Eugene G., West Albany, N. Y., assignor to General Electric Company. Methyl silicon halides. 2,286,763; June 16.
Rockwell, Stanley P., Company. (See Rockwell, Stanley P., assignor.)
Rockwell, Stanley P., West Hartford, deceased, K. W. Weeks, executor, assignor to The Stanley P. Rockwell Company, Hartford, Conn. Heat testing apparatus for metal or solid objects. 2,287,008; June 16.

Roemer, William C., assignor to Western Cartridge Company, New Haven, Conn. Trigger-mechanism for firearms. 2,286,932; June 16.

Rogers, Harrison W., Sebring, Fla. Fruit paring machine. 2,286,648; June 16.

Rogers, Harrison W., Miami, Fla. Fruit peeling machine. 2,286,649; June 16.

Rohde, Walter C., Milwaukee, Wis. Fletching jig. 2,286,574; June 16.

Romig, John W. (See Coumbe, F. R., and Romig.)

Romort Manufacturing Company. (See Ewald, Arno A., assignor.)

Ronning, Adolph, Minneapolis, Minn. Motorcycle. 2,286,575; June 16.

Ronning, Adolph, Minneapolis, Minn. Vehicle suspension mechanism. 2,286,576; June 16.

Rose, Leslie. (See Hegan, H. J., Givens, and Rose.)

Rosser, Charles M., assignor to Sylvania Industrial Corporation, Fredericksburg, Va. Fireproofing. 2,286,308; June 16.

Roth, Edward A., Philadelphia, Pa. Baffle and heat retaining device. 2,286,688; June 16.

Rottsieper, Ernst H. (See Phillips, R. O., and Rottsieper.)

Rowe Manufacturing Co. (See Gabrielsen, Christian, assignor.)

Rowen, Robert W., assignor to Nichols Engineering & Research Corporation, New York, N. Y. Method and apparatus for drying and incinerating waste materials of high moisture content. 2,286,309; June 16.

Royal, Solomon, Brooklyn, N. Y. Shower spray head with diverter. 2,286,933; June 16.

Royster, Percy H., Montclair, N. J. Pyrometallurgical process for the production of pig-iron and ferro-chromium. 2,286,577; June 16.

Rubatex Products, Inc. (See Roberts, D., and Bascom, assignors.)

Rubinstein, Ann. (See Rubinstein, Wilton, assignor.)

Rubinstein, Blanche. (See Rubinstein, Wilton, assignor.)

Rubinstein, Louise. (See Rubinstein, Wilton, assignor.)

Rubinstein, Peggy. (See Rubinstein, Wilton, assignor.)

Rubinstein, Wilton, Clayton, Mo., assignor of one-half to E. Greensfelder and Mercantile-Commerce Bank and Trust Company, trustees under the will of W. Rubinstein, deceased, and one-half to E. Greensfelder and Mercantile-Commerce Bank and Trust Company, trustees for B., L., A., and P. Rubinstein. Collar and making the same. 2,286,510; June 16.

Rubissow, George A., New York, N. Y. Method and device for forced takeoff and forced landing of airplanes and airships. 2,286,381; June 16.

Rudolph Wurlitzer Company, The. (See Farny, Cyril, assignor.)

Rudy Furnace Company, The. (See Torr, Thomas W., assignor.)

Rusch, Herman C. (See Benzick, A., and Rusch.)

Ruschig, Heinrich. (See Böckmuhl, M., Ehrhart, Ruschig, and Aumüller.)

Russell, Arthur O. (See Reichel, F. H., and Russell.)

Russel, Philip S. (See Landon, W. S., and Russel.)

Russo, Blacy A., New Haven, Conn. Garment hanger. 2,286,382; June 16.

Ryan, John T., Mount Vernon, Wash. Amalgam mixer. 2,286,440; June 16.

Ryder, Charles D., Covington, assignor to The National Colortype Company, Bellevue, Ky. Speed fastener. 2,286,383; June 16.

Sachtleben, Lawrence T., Camden, N. J., assignor to Radio Corporation of America. Bottle inspection apparatus. 2,286,836; June 16.

Saco-Lowell Shops. (See Cotchett, Louis M., assignor.)

Sale, Frank, Los Angeles, Calif. Reflector and holding means therefor. 2,286,934; June 16.

Salsbury Corporation. (See Burns, Bruce, assignor.)

Salzberg, Bernard. (See Herold, E. W., and Salzberg.)

Samuel, John O., assignor to Unifloc Reagents Limited, Swansea, Wales. Washing of sand, gravel, and the like. 2,286,979; June 16.

Samuelson, Otto H., Indianapolis, Ind. Bottle mold. 2,286,310; June 16.

Sanderson, Robert T., Sierra Madre, Calif., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Apparatus for gas analysis. 2,286,384; June 16.

Sandlin, Otis, assignor to Whistler's Picking Machine Company, Philadelphia, Pa. Machine for plucking poultry and the like. 2,286,650; June 16.

Sauer, George, Berwyn, assignor to Union Special Machine Company, Chicago, Ill. Sewing machine. 2,286,441; June 16.

Sauerwald, Frans, Breslau, Germany, assignor, by mesne assignments to Magnesium Development Corporation. Magnesium zirconium alloy. 2,286,311; June 16.

Sauter, Simon H., Highland Park, Mich. Surgical instrument. 2,286,578; June 16.

Scarlett, Arthur A., and S. M. Young, Hamilton, Ontario, Canada, assignors, by mesne assignments, to International Harvester Company, Chicago, Ill. Cultivating implement. 2,286,312; June 16.

Schanz, Arthur C. (See Andrews, V. E., Schanz, and Sheffer.)

Schanz, Arthur C., Glen Ridge, N. J., assignor to American Car and Foundry Company, New York, N. Y. Swinging multiple spot welding electrode. 2,286,980; June 16.

Schelkunoff, Sergei A., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Directive antenna system. 2,286,839; June 16.

Schendeler, Paulus A., Eindhoven, Netherlands. Glare shield. 2,286,935; June 16.

Scherer, George F., San Francisco, Calif., assignor to Merco Nordstrom Valve Company, Pittsburgh, Pa. Lubricated valve. 2,286,689; June 16.

Schmitt, George P., New York, N. Y., assignor, by mesne assignments, to Cardinal Products, Inc. Catalyst unit for lighters. 2,286,231; June 16.

Schock, Robert E., Riverhead, N. Y., assignor to Radio Corporation of America. Amplitude limiter circuit. 2,286,442; June 16.

Scholfield Service, Inc. (See Hayes, Charles W., assignor.)

Schroeder, Arthur C., Syracuse, N. Y., assignor to Redler Conveyor Company, Quincy, Mass. Conveying element. 2,286,579; June 16.

Schroeder, Arthur C., Syracuse, N. Y., assignor to Redler Conveyor Company, Quincy, Mass. Conveying element. 2,286,580; June 16.

Schulenberg, Edgar W., Dunkirk, assignor to American Locomotive Company, New York, N. Y. Tube nosing machine. 2,286,511; June 16.

Schuls, Arthur P. (See Miceli, J., Teller, and Schuls.)

Schwartz, Daniel M., Pittsburgh, Pa., assignor to The Falk Corporation, Milwaukee, Wis. Controller for multiple clutches. 2,286,573; June 16.

Schwartz, David L., assignor, by mesne assignments, to S. Briskman, New York, N. Y. Making pinking shears. 2,286,874; June 16.

Schwartz, Morris, New York, and W. Castedello, Huntington, assignors to The Kalart Company, Inc., New York, N. Y. Synchroniser tester means for cameras. 2,286,512; June 16.

Scott, David C., Providence, R. I., assignor to Henry L. Scott Company. Testing machine. 2,286,651; June 16.

Scott, Edward C. (See Brescks, R. S., and Scott.)

Scott, Henry L., Company. (See Pendleton, Pyman L., assignor.)

Scott, Henry L., Company. (See Scott, David C., assignor.)

Scott, Lewis L., St. Louis, Mo. Oil burner. 2,286,581; June 16.

Scott, Lloyd H., Garden City, N. Y., assignor to The Seymour Corporation of Delaware, Seymour, Conn. Magnetoelectric machine. 2,286,232; June 16.

Scott, Lloyd H., Garden City, N. Y., assignor to The Seymour Corporation of Delaware, Seymour, Conn. Ignition system for airplane engines and the like. 2,286,233; June 16.

Scott, Lloyd H., Garden City, N. Y., assignor to The Seymour Corporation of Delaware, Seymour, Conn. Magnetoelectric machine. 2,286,234; June 16.

Scott, Lloyd H., Garden City, N. Y., assignor to The Seymour Corporation of Delaware, Seymour, Conn. Circuit breaking mechanism. 2,286,235; June 16.

Scott, Lloyd H., Garden City, N. Y., assignor to The Seymour Corporation of Delaware, Seymour, Conn. Gearing mechanism for effecting speed changes. 2,286,236; June 16.

Scott-Paine, Hubert, Hythe, Southampton, England. Torpedo tube. 2,286,764; June 16.

Scrutton, Alexander W., Liverpool, England. Life saving side net for ships. 2,286,936; June 16.

Scullin, Herbert P., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Manufacture of sulphuric acid. 2,286,875; June 16.

Scully, John T., Lawrence, N. Y. Shaving machine. 2,286,443; June 16.

Seaholm, Nils, Mount Vernon, N. Y. Compressor clamp for piston rings. 2,286,313; June 16.

Secord, Roy A. (See Reichert, J. S., Elston and Secord.)

Seeburg, Noel M. (See Wallin, F. E. A., and K. T., and C. G. Johnson, assignors.)

Servel, Inc. (See Grubb, Gunnar, assignor.)

Settersten, Francis E., assignor to Northern Stevedores, Inc., Seattle, Wash. Hoisting drag bucket. 2,286,765; June 16.

Seymour Corporation of Delaware, The. (See Scott, Lloyd H., assignor.)

Seymour, George W., and B. B. White, Cumberland, Md., assignors to Celanese Corporation of America. Plasticizer. 2,286,314; June 16.

Seymour, Merrill W., R. V. Young and J. J. Chechak, assignors to Eastman Kodak Company, Rochester, N. Y. Dye for color photography. 2,286,837; June 16.

Seymour, Merrill W., and J. J. Chechak, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic element containing a disazo dye. 2,286,838; June 16.

Sharbaugh, William J. (See Catalane, B. W., Karabin and Sharbaugh.)

Sharples Corporation, The. (See Fitzsimmons, Harold C., assignor.)

Shaw, John D., Glen Rock, and W. N. Revock, Hillside, assignors to Metals Disintegrating Company, Inc., Elizabeth, N. J. Copper powder. 2,286,237; June 16.

Sheck, Oscar, assignor to Koehring Company, Milwaukee, Wis. Concrete mixer. 2,286,840; June 16.

Sheffer, John W. (See Andrews, V. E., Schanz, and Sheffer.)

Sheffield, Nita C., Brooklyn, N. Y., F. A. Greenwood, University, Ala., and L. Mackie, San Francisco, Calif. Swimming cap. 2,286,652; June 16.

Shell Development Company. (See McAllister, Sumner H., assignor.)

Sherman, Alvin G., Grosse Point, Mich., assignor to Globe American Corporation, Kokomo, Ind. Deep well cooker. 2,286,766; June 16.

Sherman, Donald W., Shorewood, assignor to A. O. Smith Corporation, Milwaukee, Wis. Insulated body mounting for automobiles. 2,286,582; June 16.

Shobert, Erle I., II, assignor to Stackpole Carbon Company, St. Marys, Pa. Generator regulator. 2,286,315; June 16.

Shoup, Lloyd R., Udall, Kans. Power driven posthole boring machine. 2,286,583; June 16.

Shutt, Richard S., Columbus, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coated alkaline article and process of making same. 2,286,767; June 16.

Sibley, Robert L., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Preparing thiuram sulphides. 2,286,690; June 16.

Siegfried, Claus, Dusseldorf, Germany, assignor to Owens-Corning Fiberglas Corporation. Method and apparatus for feeding glass stock. 2,286,653; June 16.

Silex Company, The. (See Brault, Rene J., assignor.)

Silverman, Charles, Providence, R. I. Jewelry display device. 2,286,385; June 16.

Silverman, Daniel, assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Seismometer. 2,286,386; June 16.

Simcox, Burton B., Knoxville, Tenn. Ventilator for airplanes and the like. 2,286,584; June 16.

Simmons, Frank L., Woonsocket, R. I. Magnetic chuck. 2,286,238; June 16.

Simplex Time Recorder Co. (See Deane, H. N., and Dell, assignors.)

Simpson, John M., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Clutch control. 2,286,585; June 16.

Simpson, Thomas P., V. A. Kalichevsky, and J. W. Payne, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Heat treatment for solid particles. 2,286,654; June 16.

Simpson, William K., Waterbury, assignor to The M. S. Little Manufacturing Company, Hartford, Conn. Air vent valve. 2,286,937; June 16.

Singer Manufacturing Company. (See Langille, Wilfred O., assignor.)

Singer Manufacturing Company, The. (See Naul, James M., assignor.)

Sinn, Clarence W. (See Volf, Christian A., assignor.)

Skinner, M. B., Company. (See Merrill, Patterson D., assignor.)

Slayter, Games. (See Kleist, D., and Slayter.)

Smith, A. O., Corporation. (See Sherman, Donald W., assignor.)

Smith, A. O., Corporation. (See Yost, Lloyd, assignor.)

Smith, Fredrick C., Worcester, assignor to United States Envelope Company, Springfield, Mass. Method of and apparatus for producing rolled rims on paper cups. 2,286,692; June 16.

Smith, George H. (See Aitchison, R. B., Smith and Swartout.)

Smith, George H., Kenmore, N. Y., assignor to The Linde Air Products Company. Valve. 2,286,841; June 16.

Smith, George H. (See Williams, V. C., Burch and Smith.)

Smith, Horace L., Jr., Richmond, Va., assignor, by mesne assignments, to The Girdler Corporation, Louisville, Ky. Canning process. 2,286,999; June 16.

Smith, Horatio D. (See Kellaher, G. C., and Smith.)

Smith, James H., Falmouth Foreside, Maine. Fireplace implement. 2,286,387; June 16.

Smith, Ralph E., Muskegon Heights, assignor to Manning Maxwell & Moore, Inc., Muskegon, Mich. Hoist. 2,286,388; June 16.

Smith, Robert A., Mahwah, N. J. Flexible coupling. 2,286,444; June 16.

Smith, S., & Sons (Motor Accessories) Limited. (See Meredith, Frederick W., assignor.)

Smith, Thomas, Franklin, South Australia, Australia. Scoop dredge. 2,286,691; June 16.

Smith, Thomas R., Newton, assignor to The Maytag Company, Newton, Iowa. Power drive for washing machines. 2,286,768; June 16.

Smith, Trafton D., Pontiac, Mich. Shipping block. 2,286,876; June 16.

Snook, Edwin, Amarillo, Tex., assignor to Minneapolis-Honeywell Regulator Company. Air conditioning. 2,286,316; June 16.

Snow & Petrelli Manufacturing Company, The. (See Nabstedt, Arthur T., assignor.)

Societe Anonyme des Hauts Fourneaux et Fonderies de Pont a Mousson. (See Boisson, Pierre, assignor.)

Socony-Vacuum Oil Company. (See Goodloe, Paul M., assignor.)

Socony-Vacuum Oil Company. (See Simpson, T. P., Kalichevsky, and Payne, assignors.)

Sors, Imre, Budapest, Hungary. Luminous tube. 2,286,239; June 16.

Sower, George W., University Heights, assignor to Republic Steel Corporation, Cleveland, Ohio. Inside flash remover. 2,286,513; June 16.

Sowin, George, Berwick, Pa. Cigarette case. 2,286,389; June 16.

Spark King Corporation, The. (See Stupakoff, Semon H., assignor.)

Sparkes, John G., Great Neck, N. Y. Oar lock. 2,286,769; June 16.

Sparks, Chiles E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Phenoxyacylamino derivatives. 2,286,390; June 16.

Sparks, Chiles E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Azo dye. 2,286,391; June 16.

Sparks, Chiles E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Azo dye. 2,286,392; June 16.

Spencer Lens Company. (See Richards, Oscar W., assignor.)

Sperry Gyroscope Company. (See Moseley, Francis L., assignor.)

Spieth, William S. (See Cottrell, R. B., and Spieth.)

Stack, James R., Staten Island, assignor to Nassau Smelting & Refining Company, Incorporated, New York, N. Y. Refining of nonferrous metals. 2,286,240; June 16.

Stack, James R., New Dorp, Staten Island, assignor to Nassau Smelting & Refining Company, Incorporated, New York, N. Y. Refining of nonferrous metals. 2,286,241; June 16.

Stackpole Carbon Company. (See Buerk, A. C., and Haberberger, assignors.)

Stackpole Carbon Company. (See Shobert, Erle I., II, assignor.)

Standard Oil Company of California. (See Holm, Melvin M., assignor.)

Standard Oil Company, The. (See Whitacre, Charles H., assignor.)

Stanley, Edmund, G. H. Ellis and H. C. Olpin, Spondon, near Derby, England, assignors to Celanese Corporation of America. Dye. 2,286,317; June 16.

Stanley Works, The. (See Roby, Sheldon S., assignor.)

Stanolind Oil and Gas Company. (See Sanderson, Robert T., assignor.)

Stanolind Oil and Gas Company. (See Silverman, Daniel, assignor.)

Starks, Benjamin, assignor to J. J. Eggers, Monticello, Iowa. Cross-wedge. 2,286,586; June 16.

Starrett, L. S., Company. (See Lake, Allan M., assignor.)

Stebbins, Harry Y., Los Angeles, Calif. Apparatus and method for cooling foods and the like. 2,286,514; June 16.

Steenstrup, Carl H., Schenectady, N. Y., assignor to General Electric Company. Freezing tray. 2,286,693; June 16.

Stegman, Charles A., Forest Hills, N. Y. Slip. 2,286,938; June 16.

Sternlicht, Larry, Brooklyn, N. Y. X-ray protective glove. 2,286,877; June 16.

Stupakoff, Semon H., Pittsburgh, Pa., assignor to The Spark King Corporation, New York, N. Y. Spark plug and making the same. 2,286,515; June 16.

Sturtevant, B. F., Company. (See Bergstrom, Carl O., assignor.)

Sturtevant, B. F., Company. (See Hanson, Milton E., assignor.)

Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)

Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Air separator. 2,286,987; June 16.

Sundstrand, Oscar J., Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Carriage return mechanism for writing machines. 2,286,318; June 16.

Sundt, Edward V., Chicago, Ill. Carillon. 2,286,587; June 16.

Sünskes, Max, New York, N. Y. Lens blocking apparatus. 2,286,319; June 16.

Supnick, Frederick, Brooklyn, N. Y. Mop handle and the like. 2,286,655; June 16.

Süs, Oskar, assignor to Kalle & Co., Aktiengesellschaft, Wiesbaden-Biebrich, Germany. Photographic printing material and developer. 2,286,656; June 16.

Swanson, Alfred J., Los Angeles, Calif. Airfoil hinge. 2,286,516; June 16.

Swanson, Edwin C. (See Abramson, J. H., and Swanson.)

Swanson, Elsie, Seattle, Wash. Rake. 2,286,939; June 16.

Swanson, Kenneth P., North Valley Stream, Long Island, assignor to Wabash Appliance Corporation, Brooklyn, N. Y. Black-out lamp. 2,286,657; June 16.

Swartout, Charles W. (See Aitchison, R. B., Burch and Swartout.)

Swartout, Charles W. (See Aitchison, R. B., Smith and Swartout.)

Sylvania Industrial Corporation. (See Reichel, F. H., and Russell, assignors.)

Sylvania Industrial Corporation. (See Replogle, Harry H., assignor.)

Sylvania Industrial Corporation. (See Rosser, Charles M., assignor.)

Symons, Loren G., Hollywood, Calif., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Throw-out mechanism for screens. 2,286,770; June 16.

Synchrome Corporation. (See Wright, Walter L., assignor.)

Taaffe, Rosalie, executrix. (See Taaffe, Thomas.)

Taaffe, Thomas, Los Angeles, Calif., deceased, R. Taaffe, executrix, assignor of one-half to H. R. Blair. Illuminated sign. 2,286,588; June 16.

Tack, Carl E., assignor to American Steel Foundries, Chicago, Ill. Disk brake. 2,286,517; June 16.

Talbot, Henry J. (See Weiss, R. G. A., and Talbot.)

Talbot, Howard H., assignor to United Engineering and Foundry Company, Pittsburgh, Pa. Variable speed drive. 2,286,694; June 16.

Tannewitz, Carl E., Grand Rapids, Mich. Blade grabber for band saws. 2,286,589; June 16.

Tavennes Machines Co. S. A. (See Boillat, Philippe, assignor.)

Taylor, Asa J., River Forest, Ill. Machine for assembling and/or disassembling the parts of spring tensioned devices. 2,286,695; June 16.

Taylor, Elmer H., assignor to The Chase-Shawmut Company, Newburyport, Mass. Fusible protective device. 2,286,518; June 16.

Taylor, Reginald, and G. T. Baker, Liverpool, England, assignors to Associated Telephone & Telegraph Company, Chicago, Ill. Electrical signaling system. 2,286,445; June 16.

Technicolor Motion Picture Corporation. (See Rackett, Gerald F., assignor.)

Tefft, Ivan D., and M. S. Baker, assignors to The Parker Pen Company, Janesville, Wis. Adjustable eraser holder. 2,286,878; June 16.

Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H. (See Bruck, Lothar, assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Richter, Ewald, assignor.)

Teletype Corporation. (See Zenner, Walter J., assignor.)

Teller, G. & J. (See Micell, J., Teller and Schulz, assignors.)

Teller, Jacob. (See Micell, J., Teller and Schulz.)

Terwilliger, Ivan M., Altadena, Calif. Optical image system. 2,286,242; June 16.

Tessmer, Gordon H., assignor to Warner Manufacturing Co., Minneapolis, Minn. Oil burner. 2,286,446; June 16.

Texas Company, The. (See Garrison, Allen D., assignor.)

Texas Company, The. (See Hiller, Nicolai H., Jr., assignor.)

Texas Company, The. (See Kemp, Lebbeus C., assignor.)

Texas Company, The. (See Kiersted, Wynkoop, Jr., assignor.)

Texas Company, The. (See McMillan, Wallace A., assignor.)

Texas Company, The. (See Robinson, W. W., and Hart, assignors.)

Thew, Gerald R., Lagrangeville, N. Y. Package or container. 2,286,879; June 16.

Thomas, Charles L., assignor to Universal Oil Products Company, Chicago, Ill. Catalytic conversion of hydrocarbon oils. 2,286,447; June 16.

Thomas, Joseph, Walnut Grove, assignor to Food Machinery Corporation, San Jose, Calif. Vegetable cleaner. 2,286,393; June 16.

Thornburgh, Luther F., et al. (See Frost, Roy H., assignor.)

Thornton, Ronald J. (See Coltman, B. J., and Thornton.)

Thurston, Paul L., Martinsburg, W. Va., assignor to Interwoven Stocking Company, New Brunswick, N. J. Method and apparatus for producing knitted fabrics. 2,286,771; June 16.

Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Clasping clip device. 2,286,696; June 16.

Tinnerman Products, Inc. (See Tinnerman, George A., assignor.)

Tobacco By-Products and Chemical Corporation. (See Arnold, Robert B., assignor.)

Todd, John, Lincoln, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Locking nut. 2,286,981; June 16.

Todd, John, Lincoln, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Locking nut. 2,286,982; June 16.

Togut, Isidore, New York, N. Y. Electric barbecue broiler. 2,286,394; June 16.

Torr, Thomas W., assignor to The Rudy Furnace Company, Dowagiac, Mich. Heating system. 2,286,519; June 16.

Toulmin, Harry A., Jr., Dayton, Ohio, assignor to Commonwealth Engineering Corporation, Wilmington, Del. Hearse. 2,286,395; June 16.

Trabert, Erwin. (See Weyde, E., and Trabert.)

Tranbarger, Dale O., Seattle, Wash. Garbage disposer. 2,286,520; June 16.

Trant, William A., West Allis, assignor to Blackhawk Mfg. Co., Milwaukee, Wis. Hydraulic control system. 2,286,880; June 16.

Tresca, Frank. (See Myers, B., and Tresca.)

Trevor, Bertram, Riverhead, N. Y., assignor to Radio Corporation of America. Tuned circuit. 2,286,396; June 16.

Trumpler, William E., Easton, Pa. Internal combustion turbine. 2,286,940; June 16.

Tunstall, Harold A., and B. B. Evans, Gravesend, assignors to W. T. Henley's Telegraph Works Company Limited, London, England. Rubber composition. 2,286,697; June 16.

Turdin, Valentine A., Wallingford, Conn. Heater for motor vehicles. 2,286,941; June 16.

Tuten, Alvin, Georgetown, S. C., assignor, by mesne assignments, to International Paper Company, New York, N. Y. Manufacturing paper and/or board. 2,286,942; June 16.

Underwood Elliott Fisher Company. (See Sundstrand, Oscar J., assignor.)

Unifloc Reagents Limited. (See Samuel, John O., assignor.)

Union Oil Company of California. (See Bradley, W. E., and Korpi, assignors.)

Union Oil Company of California. (See Parker, Farrand D., assignor.)

Union Special Machine Company. (See Le Roy, W. E., and Phillips, assignors.)

Union Special Machine Company. (See Sauer, George, assignor.)

United-Carr Fastener Corporation. (See Jones, Walter L., assignor.)

United-Carr Fastener Corporation. (See MacFadden, Wilford C., assignor.)

United-Carr Fastener Corporation. (See Murphy, Howard J., assignor.)

United-Carr Fastener Corporation. (See Todd, John, assignor.)

United Engineers and Foundry Company. (See Talbot, Howard H., assignor.)

United Shoe Machinery Corporation. (See Brandt, Francis L., assignor.)

United Shoe Machinery Corporation. (See Casavant, Ernest, assignor.)

United States Envelope Company. (See Smith, Frederick C., assignor.)

United States Hoffman Machinery Corporation. (See Meyer, Henry, C. A., assignor.)

United States Rubber Company. (See Muller, John A., assignor.)

United States Rubber Company. (See Scullin, Herbert P., assignor.)

United States Rubber Company. (See Wiley, William J., assignor.)

U. S. Slicing Machine Company. (See van Berkel, Wilhelmus A., assignor.)

Universal Cooler Corporation. (See Higham, William W., assignor.)

Universal Oil Products Company. (See Angell, Charles H., assignor.)

Universal Oil Products Company. (See Egloff, G., and Dryer, assignors.)

Universal Oil Products Company. (See Thomas, Charles L., assignor.)

Ure, William H., assignor to Eastman Kodak Company, Rochester, N. Y. Making screw sticks. 2,286,698; June 16.

Van Berkel, Wilhelmus A., Clarens, Montreux, Switzerland, assignor to U. S. Slicing Machine Company, La Porte, Ind. Slicing machine. 2,286,772; June 16.

Van Dorn, Herbert E., Chicago, Ill., assignor to The Dornvan Corporation. Draft gear for railway cars. 2,286,590; June 16.

Van Triest, William, Pittsburgh, Pa. Scarfing. 2,286,591; June 16.

Vander Wal, Robert J. (See Ralston, A. W., and Vander Wal.)

Varley Sound Film System Limited. (See Harper, Martin, assignor.)

Vaughn, George A., Newton, Iowa, assignor to Koehring Company, Milwaukee, Wis. Scraper. 2,286,609; June 16.

Veeder-Root Incorporated. (See Grizey, George J., assignor.)

Veeder-Root Incorporated. (See Piper, Elden H., assignor.)

Verbeek, Arnold. (See Wickardt, K., Eissner, and Verbeek.)

Verson Allsteel Press Company. (See Verson, D. C., and Clements, assignors.)

Verson, David C., Chicago, and A. Clements, Berwyn, assignors to Verson Allsteel Press Company, Chicago, Ill. Punch press. 2,286,943; June 16.

Vincent, Perlo, Gloversville, N. Y. Toy gun. 2,286,700; June 16.

Volt, Willy, assignor to Robert Bosch Gesellschaft mit beschränkter, Haftung, Stuttgart, Germany. Cooled injection nozzle. 2,286,658; June 16.

Volf, Christian A., Van Nuys, Calif., assignor to C. W. Sinn, New York, N. Y. Duplex tone arm. 2,286,320; June 16.

Von Bichowsky, Foord A., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Treating hydrolyzable titanium salt solutions. 2,286,881; June 16.

Von Bichowsky, Foord, Arden, and R. M. McKinney, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Titanium oxide pigment production. 2,286,882; June 16.

Wabash Appliance Corporation. (See Swanson, Kenneth P., assignor.)

Wade, R. M., & Co. (See Kellaher, G. C., and Smith, assignors.)

Wagenhorst, Lester D., assignor to The Nolde and Horst Company, Reading, Pa. Hosiery. 2,286,659; June 16.

Wahlberg, Nils E., assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Lamp mount. 2,286,448; June 16.

Wahlberg, Nils E., assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Windshield wiper. 2,286,449; June 16.

Wahlberg, Nils E., assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Remote gear shifting mechanism. 2,286,773; June 16.

Wainwright, John E. (See Harley, S. J., and Wainwright.)

Waldorf Paper Products Company. (See Calva, Jose B., assignor.)

Wallace, John J., Springfield, Mass. Tilling apparatus. 2,286,592; June 16.

Wallace, Lewis E., Whittier, Calif. Hair trimming guide for dry shavers. 2,286,660; June 16.

Wallin, Fred E. A., Chicago, K. T. Johnson, Palatine, and C. G. Johnson, assignors to N. M. Seeburg, Chicago, Ill. Apparatus for separating genuine from spurious coins. 2,286,321; June 16.

Walter, Earl N., Denver, Colo. Hammer drill attachment for electric motors. 2,286,521; June 16.

Warner, Joseph J., Medford, Mass. Hydraulic apparatus. 2,286,661; June 16.

Warner Manufacturing Co. (See Tessmer, Gordon H., assignor.)

Warriner, Percy S., Doncaster, England. Apparatus for the automatic projection of photographic transparencies and the like. 2,286,322; June 16.

Waterville Textile Mills, Inc. (See Crommie, Earl, assignor.)

Watson, Ralph M., Bloomfield, assignor to Worthington Pump and Machinery Corporation, Harrison, N. J. Centrifugal compressor. 2,286,522; June 16.

Weatherhead Company, The. (See Carlson, Bert G., assignor.)

Weber, Martin J., New York, N. Y. Photomechanical apparatus. 2,286,883; June 16.

Weber, Walter C., West Hartford, and E. H. Wellech, assignors to Corning Glass Works, Corning, N. Y. Apparatus and method for feeding and fabricating glass. 2,286,323; June 16.

Weeks, Kenneth W., executor. (See Rockwell, Stanley P.)

Weiss, Robert G. A., and H. J. Talbot, The Hague, Netherlands, assignors to The Dorr Company Inc., New York, N. Y. Apparatus for treating settled solids in liquid-solids mixtures. 2,286,397; June 16.

Weldin, Lewis C., Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del. Rifle cartridge. 2,286,774; June 16.

Weldin, Lewis C., Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del. Cartridge. 2,286,775; June 16.

Wellech, Edmund H. (See Weber, W. C., and Wellech.)

Wendt, Gerhard. (See Kuhn, R., and Wendt.)

Wentz, Jere L., Passaic, N. J. Massage roller. 2,286,324; June 16.

Werner, Georg, assignor to Kalle & Co., Aktiengesellschaft, Wiesbaden-Biebrich, Germany. Diazotype printing materials. 2,286,701; June 16.

Wesely, Edwin F. (See Meyer, H. C. A., and Wesely.)

Western-Austin Company. (See Wilson, F. D., and Antos, assignors.)

Western Cartridge Company. (See Roemer, William C., assignor.)

Western Electric Company. (See Berger, B., and Humphrey, assignors.)

Western Electric Company. (See Brescka, R. S., and Scott, assignors.)

Western Electric Company. (See Frederick, Kenneth L., assignor.)

Western Electric Company. (See Johannessen, Vaughn L., assignor.)

Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)

Westinghouse Air Brake Company, The. (See Hines, Claude M., assignor.)

Westinghouse Air Brake Company, The. (See Miller, Raymond E., assignor.)

Westinghouse Electric & Manufacturing Company. (See Crittenden, P. L., and Aikman, assignors.)

Westinghouse Electric & Manufacturing Company. (See Dench, Edward C., assignor.)

Westinghouse Electric & Manufacturing Company. (See Gustin, Daniel S., assignor.)

Westinghouse Electric & Manufacturing Company. (See Lenehan, Bernard E., assignor.)

Westphal, Kurt, Wuppertal-Vohwinkel, and H. Andersag, Wuppertal-Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Manufacture of 2-methyl-2-alkoxy-3-halogen tetrahydrofuranes. 2,286,884; June 16.

Weyde, Edith, Cologne-Riehl, and E. Trabert, Leverkusen-Wiesdorf, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Color photography. 2,286,662; June 16.

Wheeler, Henry H., Brooklyn, N. Y., assignor to International Cigar Machinery Company. Binder forming and transfer mechanism. 2,287,004; June 16.

Wheeler, Lucius B., Newton, Mass. Seal for coin bags and the like. 2,286,243; June 16.

Wheeling Steel Corporation. (See Mangold, Eli F., assignor.)

Whistler's Picking Machine Company. (See Sandlin, Otis, assignor.)

Whitacre, Charles H., assignor to The Standard Oil Company, Cleveland, Ohio. Asphalt preparation. 2,286,244; June 16.

White, Blanche B. (See Seymour, G. W., and White.)

White, Eric L. C., Hillingdon, and R. P. Chasmar, Pinner, assignors to Electric & Musical Industries Limited, Hayes, Middlesex, England. Television receiving system. 2,286,450; June 16.

Whitehead, Arthur F., Wollaston, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Conveyer and driving mechanism therefor. 2,286,523; June 16.

Whitin Machine Works. (See Hendrickson, Fred K., assignor.)

Wickard, Claude R., as Secretary of Agriculture of the United States of America and his successors in office. (See Murray, Charles W., assignor.)

Wickardt, Kurt, Oberlungwitz, E. Eissner, Chemnitz, and A. Verbeek, Wuestenbrand, Germany, assignors to Kallo, Inc., New York, N. Y. Heel knitting machine for single unit stockings. 2,286,325; June 16.

Wilbur, Wallace D., Boise, Idaho. Pocketknife. 2,286,524; June 16.

Wildman, Ellis H. (See Cool, I. J., Jr., and Wildman.)

Wiley, William J., Waterbury, Conn., assignor to United States Rubber Company, New York, N. Y. Machine for forming elements. 2,286,885; June 16.

Williams, Virgil C., C. J. Burch, and G. H. Smith, Kenmore, N. Y., assignors to The Linde Air Products Company. Apparatus for distributing comminuted solids. 2,286,776; June 16.

Williamson, Colin M., Willesden Green, London, England. Strip feeding means. 2,286,451; June 16.

Wilson, Fred D., and J. Antos, assignors to Western-Austin Company, Aurora, Ill. Street sweeping machine. 2,286,245; June 16.

Winther, Anthony. (See Winther, Martin P., and Anthony.)

Winther, Anthony, Kenosha, Wis., assignor to M. P. Winther, as trustee. Electrical control apparatus. 2,286,778; June 16.

Winther, Martin P. (See Winther, Anthony, assignor.)

Winther, Martin P. (See Winther, M. P., and Winther.)

Winther, Martin P., Waukegan, Ill., and A. Winther, Kenosha, Wis., assignors to M. P. Winther, trustee. Speed control unit. 2,286,777; June 16.

Winthrop Chemical Company. (See Böckmuhl, M., Ehrhart, Ruschig, and Aumüller, assignors.)

Winthrop Chemical Company. (See Kuhn, R., and Wendt, assignors.)

Winthrop Chemical Company. (See Westphal, K., and Andersag, assignors.)

Wood, Alexander P., Schenectady, N. Y., assignor to General Electric Company. Dynamoelectric machine. 2,286,702; June 16.

Woodstock Typewriter Company. (See Gattuso, Peter F., assignor.)

Woodstock Typewriter Company. (See Koca, James F., assignor.)

Woodward, Flora M., San Francisco, Calif. Stocking garter. 2,286,525; June 16.

Worth, Weldon, Dayton, Ohio. Fluid motion transmitting device with synchronizer. 2,286,452; June 16.

Worthington Pump and Machinery Corporation. (See Watson, Ralph M., assignor.)

Wright, Walter L., assignor to Synchrome Corporation, Santa Monica, Calif. Optical system for cameras and the like. 2,286,526; June 16.

Yarrum, Inc. (See Murray, T. E., (assignor) and Phelps.)

Yearta, Alton B., Winter Haven, Fla., assignor of one-third to R. H. Mooty, Sr., and one-third to H. E. Cornell. Display unit. 2,286,246; June 16.

Yearta, Alton B., Winter Haven, Fla., assignor of one-third to R. H. Mooty, Sr., and one-third to H. E. Cornell. Display device. 2,286,247; June 16.

Yellow Truck & Coach Manufacturing Company. (See Austin, Dwight E., assignor.)

Yellow Truck & Coach Manufacturing Company. (See Nelson, Laurence A., assignor.)

Yerkey, Alvy C., deceased, late of Chicago, Ill., by A. C. Yerkey, Maywood, Ill., executrix. Grid casting machine. 2,286,527; June 16.

Yerkey, Anna C., executrix. (See Yerkey, Alvy C.)

Yost, Lloyd, Los Angeles, Calif., assignor to A. O. Smith Corporation, Milwaukee, Wis. Radial ball bearing. 2,286,528; June 16.

Young, Fred M., Racine, Wis. Heat exchanger. 2,286,398; June 16.

Young, Leonard A., Detroit, assignor to Bowen Products Corporation, Ecorse, Mich. Machine and method for making garment hangers. 2,286,529; June 16.

Young, Richard V. (See Seymour, M. W., Young, and Chechak.)

Young, Stephen M. (See Scarlett, A. A., and Young.)

Yule, John A. C., assignor to Eastman Kodak Company, Rochester, N. Y. Photo-mechanical color reproduction. 2,286,779; June 16.

Yule, John A. C., assignor to Eastman Kodak Company, Rochester, N. Y. Photomechanical color reproduction. 2,286,780; June 16.
Z Pack Corporation. (See Noyes, Harry A., assignor.)
Zenner, Walter J., Des Plaines, assignor to Teletype Corporation, Chicago, Ill. Printing telegraph apparatus. 2,286,248; June 16.
Zimmerman, Fred R., and R. W. Lotz, assignors to Nachman Spring-filled Corporation, Chicago, Ill. Spring construction assembling machine. 2,286,326; June 16.
Zintl, Eduard, Darmstadt, and H. Grube, Sandersdorf, Kreis Bitterfeld, Germany. Reduction of inorganic oxidic compounds by silicon monoxide. 2,286,663; June 16.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 16TH DAY OF JUNE, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Cleaner, Drain. S. O. Blanc. Re. 22,113; June 16.
Cover, Wheel. G. A. Lyon. Re. 22,120; June 16.
Cutoff mechanism. A. Borzym. Re. 22,114; June 16.
Drive mechanism for shaker conveyers. W. W. Sloane. Re. 22,121; June 16.
Fastening means, Ornamental member. G. A. Lyon. Re. 22,119; June 16.
Light-valve projection apparatus for television signal-reproducing systems. P. J. Herbst. Re. 22,115; June 16.
Molybdenite by froth flotation, Recovering. T. A. Janney. Re. 22,117; June 16.
Seal for shafts. J. T. Janette. Re. 22,116; June 16.
Tool, Power. C. F. Warren and W. R. Smith. Re. 22,122; June 16.
Type, Porous metallic. C. N. Lohrey. Re. 22,118; June 16.

LIST OF DESIGN INVENTIONS

Badge. D. W. Armstrong. 132,774; June 16.
Badge or similar article. E. S. Crittenden. 132,776; June 16.
Badge or similar article. R. D. Gouldner. 132,778; June 16.
Bag, Automobile visor attachment. W. W. Hoople. 132,770; June 16.
Belt. S. Barbara. 132,804; June 16.
Brooch or similar article. J. J. Sharkey. 132,794; June 16.
Brush. H. M. Schwartz. 132,813–14; June 16.
Button or similar article. G. A. Whalen. 132,824; June 16.
Cabinet, Combined displaying and dispensing. L. Richter. 132,766; June 16.
Cap, Bottle. M. de Botelho. 132,805; June 16.
Cap, Bottle. G. H. Hutaff, Jr. 132,771; June 16.
Carton, Dispensing. Z. Wolteger and H. Lerer. 132,820; June 16.
Chair. A. Reiss. 132,793; June 16.
Charm or similar article of jewelry, Watch. M. Wolfson. 132,788; June 16.
Closure, Bottle. H. C. Giessner. 132,810; June 16.
Coat. H. Zuckerman. 132,833–8; June 16.
Collar. H. Frost. 132,827–8; June 16.
Cooking appliance, Counter. E. A. Jones. 132,763; June 16.
Dress. B. Cashin. 132,806; June 16.
Dress. M. Fields. 132,807–8; June 16.
Extractor, Juice. D. E. Grove and J. D. Comstock. 132,762; June 16.
Fastener, Rug. E. B. Harris. 132,779; June 16.
Floor maintenance machine. W. E. Holt. 132,811; June 16.
Frame, Illuminated picture. E. G. Steinward. 132,787; June 16.
Game board. J. E. Clarke. 132,790; June 16.
Game board. H. La Rue. 132,829; June 16.
Hair retainer for dry shavers. J. Streng. 132,817; June 16.
Hair retainer for shavers. J. Streng. 132,816; June 16.
Heater, Domestic water. J. Barofsky. 132,789; June 16.
Hone and receptacle for a knife, Combined. J. R. Case. 132,775; June 16.
Jacket, Parka. E. Bauer. 132,803; June 16.
Jewelry finding or similar article. E. Zakos. 132,826; June 16.
Lamp, Wall bracket. H. E. Jumper. 132,780; June 16.
Lantern. M. J. Freemark. 132,777; June 16.
Lighting fixture. R. B. Netting. 132,786; June 16.
Ornament or similar article, Shoe. T. R. Atkins. 132,759; June 16.
Pencil or similar article. L. W. Saulsbury. 132,773; June 16.
Phonograph, Dual. S. Yerkovich, W. J. O'Neil, and G. W. Cameron. 132,825; June 16.
Plate or similar article. W. Bruning. 132,760; June 16.
Roof louver, Slant. F. H. Leslie. 132,821; June 16.
Sachet and container, Combined. A. H. Newman. 132,772; June 16.
Server, Strip. E. Arens. 132,802; June 16.
Settee. F. Mastrangelo. 132,765; June 16.
Settee. F. Mastrangelo. 132,792; June 16.
Settee. F. Mastrangelo. 132,822; June 16.
Shaver, Dry. J. Streng. 132,818; June 16.
Shoe or similar article, Black-out. G. M. Powell. 132,823; June 16.
Shoe or similar article, Woman's. H. E. Zackon. 132,768; June 16.
Sign, Advertising. P. F. Wendell. 132,767; June 16.
Slip. S. Wolf. 132,819; June 16.
Spoon or other article of flatware. A. G. Kintz. 132,812; June 16.
Statuette. J. W. Lindner. 132,781–5; June 16.
Support, Abdominal. H. J. Lunney. 132,791; June 16.
Tab for slide fasteners, Pull. S. F. La Verde. 132,764; June 16.
Tablecloth or similar article. V. Winston. 132,832; June 16.
Textile fabric. J. H. Abt. 132,796–801; June 16.
Textile fabric. F. Casanova. 132,761; June 16.
Textile fabric. A. Flory. 132,809; June 16.
Textile fabric. H. W. Wilde. 132,830–1; June 16.
Tray and shoulder support, Combined beutician's. F. Sommers. 132,795; June 16.
Vacuum cleaner. C. E. Stevens. 132,815; June 16.
Welding machine. J. A. Fotie. 132,769; June 16.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 16TH DAY OF JUNE, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrading machine. L. K. Goddu. 2,286,361; June 16.
Abrasive throwing machine. V. E. Minich. 2,286,754; June 16.
Absorbent materials, Recovering. W. Kiersted, Jr. 2,286,815; June 16.
Acid, Manufacture of sulphuric. H. P. Scullin. 2,286,875; June 16.
Acid, Producing formic. P. Halbig. 2,286,407; June 16.
Acid products, Purification of sulphonic. P. M. Goodloe, 2nd. 2,286,725; June 16.
Acid, Purification of acetic. J. S. Reichert, A. A. Elston, and R. A. Secord. 2,286,995; June 16.
Adermin, Manufacture of. R. Kuhn and G. Wendt. 2,286,915; June 16.
Adhesive, Polymerized chloroprene. J. L. Perkins. 2,286,505; June 16.
Adjustable chair. R. W. Page. 2,286,372; June 16.
Adjustable seat. A. P. Ball. 2,286,946; June 16.
Adjusting means, Steady rest. M. A. Hollengreen. 2,286,620; June 16.
Agricultural implement. C. H. Gemberling. 2,286,359; June 16.
Air conditioning. E. Snook. 2,286,316; June 16.
Air conditioning apparatus. L. Hanson. 2,286,961; June 16.
Air conditioning apparatus. J. McElgin. 2,286,749; June 16.
Air conditioning system. R. B. P. Crawford. 2,286,604-5; June 16.
Air conditioning system. G. D. Guler. 2,286,538; June 16.
Air conditioning system. E. B. Miller. 2,286,920; June 16.
Air-conditioning system. L. A. Nelson. 2,286,758; June 16.
Air conditioning system utilizing refrigeration. C. O. Bergstrom. 2,286,252; June 16.
Air heating furnace. C. Demuth. 2,286,719; June 16.
Air purifier or conditioner. M. N. Farr. 2,286,480; June 16.
Air separator. T. J. Sturtevant. 2,286,987; June 16.
Air vent valve. W. K. Simpson. 2,286,937; June 16.
Airplanes and airships, Method and device for forced takeoff and forced landing of. G. A. Rublssow. 2,286,381; June 16.
Alignment mechanism for recording scales. J. E. Butler. 2,286,196; June 16.
Alkaline article and making same, Coated. R. S. Shutt. 2,286,767; June 16.
Alkyl naphthylmethyl cyanamids. R. O. Roblin, Jr. 2,286,380; June 16.
Alkylation of isoparaffins. F. D. Parker. 2,286,504; June 16.
Alloy: *See*—
Aluminum base alloy.
Coating alloy.
Copper-cobalt-tin alloy.
Magnesium base alloy.
Magnesium zirconium alloy
Manganese alloy.
Alloy wrought iron and article made therefrom. J. W. Davis and R. McBrian. 2,286,198; June 16.
α-1-naphthyl cinnamic nitrile. I. Hechenbleikner. 2,286,363; June 16.
Aluminum base alloy. L. W. Kempf and W. A. Dean. 2,286,624–7; June 16.
Amalgam mixer. J. T. Ryan. 2,286,440; June 16.
Amplitude limiter circuit. R. E. Schock. 2,286,442; June 16.
Amusement apparatus, Automatic. N. Bartlett. 2,286,454; June 16.
Anaesthetic compound and solvent for the same. D. Curtis. 2,286,718; June 16.
Animated sign. G. A. Proctor and C. A. Pafenbach. 2,287,003; June 16.
Anode locking means. E. H. Reid. 2,286,829; June 16.
Anode locking system. L. W. Morton and C. C. Kerskind. 2,286,755; June 16.
Antenna pole, Yieldable. E. Richter. 2,286,439; June 16.
Antenna system, Directive. S. A. Schelkunoff. 2,286,839; June 16.
Antidazzle device. A. Martinek. 2,286,219; June 16.
Apparatus and method for bending pipes, bars, plates, and like pieces. P. Boissou. 2,286,893; June 16.
Apparatus and method for cooling foods and the like. H. Y. Stebbins. 2,286,514; June 16.
Apparatus and method for feeding and fabricating glass. W. C. Weber and E. H. Wellech. 2,286,323; June 16.
Apparatus and process for separating particles. F. C. Dyer and H. L. McClelland. 2,286,607; June 16.

Apparatus for applying moisture resistant material to bags. B. A. Hannewald and A. M. Keller. 2,286,801; June 16.
Apparatus for distributing comminuted solids. V. C. Williams, C. J. Burch, and G. H. Smith. 2,286,776; June 16.
Apparatus for drying webs of paper regenerated from cellulose drivatives. E. Bleibler. 2,286,595; June 16.
Apparatus for fumigating. R. B. Arnold. 2,286,888; June 16.
Apparatus for gas analysis. R. T. Sanderson. 2,286,384; June 16.
Apparatus for making glass wool. D. Kleist and G. Slayter. 2,287,006; June 16.
Apparatus for pressing and coating liners in crown caps. A. Rivera. 2,286,978; June 16.
Apparatus for printing substandard film. M. Harper. 2,286,733; June 16.
Apparatus for rejecting defective metallic sheets. E. R. Muddiman. 2,286,686; June 16.
Apparatus for separating genuine from spurious coins. F. E. A. Wallin, K. T. Johnson, and C. G. Johnson. 2,286,321; June 16.
Apparatus for suppiying soluble agents to liquids. E. L. Prizer. 2,286,828; June 16.
Apparatus for the automatic projection of photographic transparencies and the like. P. S. Warriner. 2,286,322; June 16.
Apparatus for treating potatoes for shipment. A. F. Arthur. 2,286,705; June 16.
Apparatus for treating settled solids in liquid-solids mixtures. R. G. A. Weiss and H. J. Talbot. 2,286,397; June 16.
Applicator, Wax. J. E. Richards. 2,286,257; June 16.
Aquatic device. T. R. Drake. 2,286,350; June 16.
Arc welding device. E. J. Gorn. 2,286,212; June 16.
Arc welding system and method. J. W. Dawson and L. K. Marshall. 2,286,211; June 16.
Arc welding system and method. H. Klemperer and L. K. Marshall. 2,286,210; June 16.
Arch support. R. D. Matteson. 2,286,495; June 16.
Arrangement for tuning parallel wire lines. P. Mehler. 2,286,428; June 16.
Article and making the same. H. H. Replogle. 2,286,307; June 16.
Articles and the products produced, Process and apparatus for producing. F. H. Reichel and A. O. Russell. 2,286,645; June 16.
Asphalt preparation. C. H. Whitacre. 2,286,244; June 16.
Asphalt, Treatment of. A. B. Hersberger. 2,286,414; June 16.
Assembling machine, Spring construction. F. R. Zimmerman and R. W. Lotz. 2,286,326; June 16.
Attachment for traveling water screens, Chain link. L. G. Bleyer. 2,286,332; June 16.
Automobile hood latch adjustable keeper. W. H. Krause. 2,286,739; June 16.
Automotive transmission, Full automatic. D. S. Bennetch. 2,286,193; June 16.
Azo compounds and material colored therewith. J. B. Dickey and J. G. McNally. 2,286,795; June 16.
Baffle and heat retaining device. E. A. Roth. 2,286,688; June 16.
Ball bearing. M. Katcher. 2,286,422; June 16.
Ball bearing, Radial. L. Yost. 2,286,528; June 16.
Barrels for syringes and of like tubular articles, Manufacture of glass. S. J. Everett. 2,286,401; June 16.
Battery connector. F. B. Hewel. 2,286,415; June 16.
Battery retainer and bulb carrier for electric lanterns, Combined. W. M. Moxley. 2,286,685; June 16.
Bearing: *See*—
Ball bearing.
Bearing construction, Self-aligning. F. E. Montgomery. 2,286,825; June 16.
Bearing seal. T. C. Delaval-Crow. 2,286,472; June 16.
Bed, Chair. J. D. Bell. 2,286,948; June 16.
Binder forming and transfer mechanism. H. H. Wheeler. 2,287,004; June 16.
Black-out lamp. K. P. Swanson. 2,286,657; June 16.
Blade grabber for band saws. C. E. Tannewitz. 2,286,589; June 16.
Block: *See*—
Shipping block.
Board: *See*—
Posting board.
Boards in position, Securing wall. H. Roberts. 2,286,976; June 16.

Boots and machines, Method of and machine for lasting. C. F. Hammann. 2,286,362; June 16.
Boots, Making furrow opener. G. M. Kriegbaum. 2,286,285; June 16.
Boring machine, Power driven post-hole. L. R. Shoup. 2,286,583; June 16.
Bottle, Ink. K. Reinecke. 2,286,646; June 16.
Bottle mold. O. H. Samuelson. 2,286,310; June 16.
Bottle, Nursing. F. M. Duerme. 2,286,797; June 16.
Box: *See*—
Collapsible box.
Cup and stuffing box.
Track switch box stuffing box.
Wall box.
Box or chest for tools. H. L. Levensten. 2,286,427; June 16.
Brake: *See*—
Disk brake.
Brake for velocipedes, Backpedaling. E. E. Hood. 2,286,986; June 16.
Brake wear adjustment mechanism, Automatic. F. B. Buffington. 2,286,711; June 16.
Brassière. A. A. Clark. 2,286,601; June 16.
Broiler, Electric barbecue. I. Togut. 2,286,394; June 16.
Brush for paperhangers, Corner. J. H. Boutte, 2,286,253; June 16.
Brushes, Renovating of paint. W. E. Nash, Jr. 2,286,972; June 16.
Bucket, Hoisting drag. F. E. Settersten. 2,286,765; June 16.
Burner: *See*—
Fuel burner.
Oil burner.
Safety pilot burner.
Vaporizing oil burner.
Cabinet: *See*—
Display cabinet.
Cable: *See*—
Power cable.
Cable and manufacture, Electric. J. J. Morrison. 2,286,827; June 16.
Cable pulling device. J. H. Abramson and E. C. Swanson. 2,286,781; June 16.
Cable system, Electric. C. E. Bennett. 2,286,594; June 16.
Camera. O. W. Richards. 2,286,977; June 16.
Can opener. A. H. Pearson. 2,286,303; June 16.
Canning process. H. L. Smith, Jr. 2,286,999; June 16.
Cap: *See*—
Swimming cap.
Ventilated cap.
Capped receptacle. W. C. Rheinfels. 2,286,508; June 16.
Caps for self-locking nuts, Manufacture of holding. F. W. Brooke. 2,286,668; June 16.
Car: *See*—
Drop bottom mine car.
Car and truck therefor, Mine. R. C. Kepner. 2,286,967; June 16.
Carburetor and charge control system for internal combustion engines. M. Mallory. 2,286,294; June 16.
Carillon. E. V. Sundt. 2,286,587; June 16.
Carriage return mechanism for writing machines. O. J. Sundstrand. 2,286,318; June 16.
Cartridge. L. C. Weldin. 2,286,775; June 16.
Cartridge, Rifle L C. Weldin. 2,286,774; June 16.
Case: *See*—
Cigarette case.
Case and shelf therefor, Display. P. M. Ressinger. 2,286,830; June 16.
Casting machine, Grid. A. C. Yerkey. 2,286,527; June 16.
Catalyst unit for lighters. G. P. Schmitt. 2,286,231; June 16.
Catalytic conversion of hydrocarbon oils. C. L. Thomas. 2,286,447; June 16.
Catch, Safety. E. Morehouse. 2,286,635; June 16.
Cathode ray tube targets, Manufacturing. P. T. Farnsworth. 2,286,478; June 16.
Cathode-to-spacer assembly. A. B. Dickinson. 2,286,996; June 16.
Cellulose esters from scrap, Recovery of. C. J. Malm and G. B. Bachman. 2,286,822; June 16.
Cellulosic material and products thereof, Flame proofing. W. E. Gordon. 2,286,726; June 16.
Cement, Manufacturing Portland. C. R. Jackson. 2,286,420; June 16.
Centering device and cushion for buffer stems. R. G. Nichols. 2,286,973; June 16.
Centrifugal compressor. R. M. Watson. 2,286,522; June 16.
Centrifugal separator. H. C. Fitzsimmons. 2,286,354–5; June 16.
Chair: *See*—
Adjustable chair.
Posture chair.
Chuck, Magnetic. F. L. Simmons. 2,286,238; June 16.
Chuck, Rotary. W. E. Parish. 2,286,927; June 16.
Cigarette case. G. Sowin. 2,286,389; June 16.
Cigarette making device. H. F. Kirkwood. 2,286,423; June 16.
Circuit: *See*—
Amplitude limiter circuit.
Negative feedback circuit.
Temperature compensating circuit.
Tuned circuit.
Circuit arrangement embodying cathode ray oscillographs. C. O. Browne, A. D. Blumlein, and J. Hardwick. 2,286,894; June 16.
Circuit breaking mechanism. L. H. Scott. 2,286,235; June 16.
Circuit control means. C. C. Farmer. 2,286,611; June 16.
Circuit for fluorescent lamps, Starting. E. C. Dench. 2,286,790; June 16.
Circuit for press brakes, Hydraulic. P. E. Flowers. 2,286,798; June 16.
Circuits, Frequency modulation receiver tuning indicator. E. W. Herold. 2,286,413; June 16.
Cleaner: *See*—
Suction cleaner.
Vegetable cleaner.
Cleaning system, Closed dry. N. Monsarrat. 2,286,432; June 16.
Clip and self-winding tapeline, Combination pencil. A. Kirstein. 2,286,424; June 16.
Clip device, Clasping. G. A. Tinnerman. 2,286,696; June 16.
Closet seat shell, Detachable. G. D. Manville. 2,286,632; June 16.
Clutch. D. B. Livingston. 2,286,862; June 16.
Clutch. C. H. Peterson. 2,286,760; June 16.
Clutch control J. M. Simpson. 2,286,585; June 16.
Clutch control means. P. L. Crittenden and B. S. Aikman. 2,286,671; June 16.
Clutch for motor vehicles. B. Burns. 2,286,461; June 16.
Clutch plate. N. B. Newton. 2,286,502; June 16.
Coal supply mechanism for stokers. H. C. Carter. 2,286,844; June 16.
Coating alloy. C. Bowsher. 2,286,333; June 16.
Coating composition, Sealing. R. T. Hucks. 2,286,964; June 16.
Coating for glass, Nonreflecting. C. M. Lee. 2,286,819; June 16.
Coffee maker. H. G. Lehmann. 2,286,990; June 16.
Coil selector. C. Gabrielsen. 2,286,614; June 16.
Coke-oven by-product tar and ammonia recovery. J. Becker. 2,286,455; June 16.
Collapsible box. W. A. Becker. 2,286,399; June 16.
Collar and making the same. W. Rubinstein. 2,286,510; June 16.
Color projection lamp. O. E. Barthel and N. E. Marker. 2,286,783; June 16.
Coloring matters of the phthalocyanine type. I. M. Heilbron, F. Irving, and R. P. Linstead. 2,286,679; June 16.
Coloring with vat dyes and composition therefor. E. W. Clark. 2,286,262; June 16.
Combustion chamber. R. H. Goddard. 2,286,909; June 16.
Compass, Radio. F. J. Hooven. 2,286,804; June 16.
Compounds of the cyclopentano-polyhydro-phenanthrene series, Preparing oxo. M. Bockmuhl, G. Ehrhart, and H. Ruschig and W. Aumuller. 2,286,892; June 16.
Compressor clamp for piston rings. N. Seaholm. 2,286,313; June 16.
Compressor, Sealed. W. W. Higham. 2,286,272; June 16.
Concentric resonant line. C. W. Hansell. 2,286,408; June 16.
Concrete mixer. O. Sheck. 2,286,840; June 16.
Condensation product, Modified dicyandiamide. K. E. Ripper. 2,286,228; June 16.
Conductor, Insulated. A. C. Buerk and E. Haberberger. 2,286,339; June 16.
Connecting device for tabulating machines. L. M. Keefe. 2,286,812; June 16.
Connecting one member to another member, Movably. O. W. Lane. 2,286,969; June 16.
Connector: *See*—
Battery connector.
Connector for electrical conduits, Split. J. H. and R. J. Cannon. 2,286,952; June 16.
Container: *See*—
Metal container.
Package or container.
Container. J. B. Calva. 2,286,342; June 16.
Container. W. V. Roberts. 2,286,647; June 16.
Container and sipper, Combined. A. DuVal and B. W. De Lappe. 2,286,957; June 16.
Container, Fabricating a. E. F. Mangold. 2,286,367; June 16.
Control apparatus. H. B. Holthouse. 2,286,856; June 16.
Control apparatus. F. D. Joesting. 2,286,282; June 16.
Control apparatus. A. E. Krogh. 2,286,741; June 16.
Control apparatus for aircraft, Automatic. F. W. Meredith. 2,286,561; June 16.
Control system. J. F. Luhrs. 2,286,863; June 16.
Control system. W. A. Ray. 2,286,376; June 16.
Control system, Antihunt position. F. L. Moseley. 2,287,002; June 16.
Control system for dictation reproducing machines, Pause. H. P. Clausen. 2,286,345; June 16.
Control system, Temperature. W. L. McGrath. 2,286,296; June 16.
Controller for multiple clutches. D. M. Schwartz. 2,286,873; June 16.
Converter, Frequency modulation. S. Hunt. 2,286,997; June 16.
Conveying and elevating apparatus, Can. J. Albertoli. 2,286,250; June 16.
Conveying element. A. C. Schroeder. 2,286,579–80; June 16.
Conveyor. R. E. Briggs. 2,286,666; June 16.
Conveyor and driving mechanism therefor. A. F. Whitehead. 2,286,523; June 16.

Copper-cobalt-tin alloy. R. H. Harrington. 2,286,734; June 16.
Corn pickers, Ear straightener for. B. M. Hyman and R. C. Gergason. 2,286,279; June 16.
Counter, Check-out. H. H. Jackson and L. Milgram. 2,286,548; June 16.
Coupling: *See*—
Flexible coupling. Quick acting coupling.
Friction coupling.
Covering device, Seat. C. P. Cuddihy and H. A Kennedy. 2,286,606; June 16.
Cross-wedge. B. Starks. 2,286,586; June 16.
Cultivating implement. A. A. Scarlett and S. M. Young. 2,286,312; June 16.
Cup and stuffing box, Traveling. D. E. Outcalt. 2,286,300; June 16.
Curler, Hair. M. M. Newman. 2,286,637–8; June 16.
Cutter: *See*—
String cutter.
Cutter for dressing electrodes in spot welding machines. R. W. Radeke. 2,286,931; June 16.
Cutting and feeding means for paper cup machines, Blank. L. Harvey. 2,286,541; June 16.
Cutting attachment, Circle. J. L. Anderson. 2,286,664; June 16.
Cyanamide in liquor ammonia, Preparation of solutions of. H. S. Davis. 2,286,349; June 16.
Dental amalgamator. E. L. Chott. 2,286,600; June 16.
Dental bite recorder. M. J. Lover. 2,286,288; June 16.
Dental X-ray package. F. C. Martin. 2,286,748; June 16.
Developing apparatus, Portable film. W. H. Richards. 2,286,229; June 16.
Device for removing olives, etc. from bottle. W. E. Bair. 2,286,708; June 16.
Die for forming bottle caps. H. W. Martin. 2,286,865; June 16.
Diesel fuel injector pump. W. L. Pipkin, Jr. 2,286,928; June 16.
Differential cell orbital flow fluid silencer. H. McCurdy. 2,286,683; June 16.
Disintegrating mill. C. J. P. Hoehn. 2,286,545; June 16.
Disk brake. C. E. Tack. 2,286,517; June 16.
Display cabinet. G. A. Carlson. 2,286,785; June 16.
Display device. A. B. Yearta. 2,286,247; June 16.
Display sign. J. T. Mullen. 2,286,756; June 16.
Display support. P. M. Ressinger. 2,286,831; June 16.
Display unit. A. B. Yearta. 2,286,246; June 16.
Distillation column construction. H. Cloyd. 2,286,786; June 16.
Distribution system, Fluid. A. D. MacLean. 2,286,188; June 16.
Dithiocarbamates, Preparation of. J. W. Hill. 2,286,738; June 16.
Door and step mechanism. D. E. Austin. 2,286,706; June 16.
Door construction. C. D. Lowry. 2,286,493; June 16.
Door latch. F. J. Gefri. 2,286,674; June 16.
Door lock signal. H. Chaskin. 2,286,463; June 16.
Door mounting. De. W. Ramsey. 2,286,573; June 16.
Door operating mechanism. G. W. Quinn. 2,286,572; June 16.
Door operating mechanism. S. S. Roby. 2,286,509; June 16.
Door roller life mechanism, Balanced. J. J. Oleksiw. 2,286,974; June 16.
Door sight. C. A. Ehehalt, Jr. 2,286,353; June 16.
Dough rounding mechanism. R. J. Beutel. 2,286,983; June 16.
Drawing compound. J. E. Montgomery. 2,286,433; June 16.
Drawing frame. F. K. Hendrickson. 2,286,617; June 16.
Dredge, Scoop. T. Smith. 2,286,691; June 16.
Drill attachment for electric motors, Hammer. E. N. Walter. 2,286,521; June 16.
Drive and feed for stokers, Line. H. H. Fitch. 2,286,268; June 16.
Driving means, Kelly. W. A. Abegg. 2,286,593; June 16.
Drop bottom mine car. F. J. Bogard and H. H. Pancake. 2,286,949; June 16.
Drop bottom mine car. W. M. Haessler. 2,286,958; June 16.
Drying apparatus. M. E. Hanson. 2,286,731; June 16.
Drying thread or the like. H. B. Kline and L. S. Fryer. 2,286,213; June 16.
Duplex tone arm. C. A. Volf. 2,286,320; June 16.
Duplicating machine. F. R. Ford. 2,286,402; June 16.
Dye for color photography. M. W. Seymour, R. V. Young, and J. J. Chechak. 2,286,837; June 16.
Dynamo-electric machine. K. D. McMahan. 2,286,750; June 16.
Dynamoelectric machine. A. P. Wood. 2,286,702; June 16.
Dynamoelectric machines, Lead connection for. S. H. Mortensen. 2,286,871; June 16.
Dye, Azo. H. C. Olpin. 2,286,304; June 16.
Dye, Azo. C. E. Sparks. 2,286,391–2; June 16.
Dyes. E. Stanley, G. H. Ellis, and H. C. Olpin. 2,286,317; June 16.
Egg treating apparatus. F. B. Lomax. 2,286,746; June 16.
Electric circuit for color correction. V. C. Hall. 2,286,730; June 16.
Electric furnace. J. A. Hardin. 2,286,732; June 16.
Electric hand lamp, Rough service. C. H. Bissell. 2,286,891; June 16.
Electric motors, Field-core holding means for. J. M. Naul. 2,286,993; June 16.
Electric switch. D. W. Johnson. 2,286,965; June 16.
Electric switchbox. P. Cover. 2,286,898; June 16.
Electric thermal switch. W. H. Bulpitt. 2,286,340; June 16.
Electrical conductors, Making insulated. V. L. Johannessen. 2,286,807; June 16.
Electrical control apparatus. A. Winther. 2,286,778; June 16.
Electrical control systems. L. E. Miller. 2,286,370; June 16.
Electrical cutout. G. W. Goldner. 2,286,534; June 16.
Electrical discharge device, Luminous. J. H. McCauley. 2,286,634; June 16.
Electrical signaling system. R. Taylor and G. T. Baker. 2,286,445; June 16.
Electronic device. H. A. Tams. 2,286,280; June 16.
Emulsion, Photographic silver halide. W. G. Lowe. 2,286,215; June 16.
Enamel remover, Fingernail. W. F. Ochs. 2,286,687; June 16.
Engine starter control. D. P. Kearney. 2,286,989; June 16.
Engine unit for electrically operated thermogauges. E. F. Bacon. 2,286,707; June 16.
Eraser holder, Adjustable. I. D. Tefft and M. S. Baker. 2,286,878; June 16.
Escapement mechanism. P. F. Gattuso. 2,286,403; June 16.
Escapement mechanism. J. F. Koca. 2,286,404; June 16.
Ethyl chloride, Purification of. H. A. Robinson. 2,286,379; June 16.
Extraction process. R. L. Brandt. 2,286,334; June 16.
Extrusion machine. J. A. Muller. 2,286,922; June 16.
Eyeglass frame construction and making the same. G. E. Nerney. 2,286,435; June 16.
Fan. M. M. Condon. 2,286,670; June 16.
Fastener: *See*—
Garment fastener. Speed fastener.
Fastener installation. W. C. MacFadden. 2,286,991; June 16.
Fastening device for garments. N. E. V. Graham. 2,286,850; June 16.
Feeder: *See*—
Gravimetric feeder.
Ferricyanides, Recovery of solid. W. H. Hill. 2,286,274; June 16.
Fiber, Continuously producing vulcanized. G. E. Landt. 2,286,968; June 16.
Fibre producing mechanism. S. M. Dockerty. 2,286,903; June 16.
Filing apparatus. C. W. Hayes. 2,286,911; June 16.
Film, Leaderstrip for cinematographic. C. G. Rittenhouse. 2,286,834; June 16.
Film reeling device for motion picture projectors, Endless. D. O. Dolinig. 2,286,200; June 16.
Film, Sound. L. D. Mannes. 2,286,747; June 16.
Filter: *See*—
Oil pump and filter.
Filter. J. M. Chalmers. 2,286,400; June 16.
Filter. B. Myers and F. Tresca. 2,286,434; June 16.
Filter panel, Air. M. N. Farr. 2,286,479; June 16.
Finisher, Roll. D. W. Brayshaw. 2,286,596; June 16.
Fire control. H. N. Durham. 2,286,474; June 16.
Fireplace implement. J. H. Smith. 2,286,387; June 16.
Fireproofing. M. Leatherman. 2,286,744; June 16.
Fireproofing. C. M. Rosser. 2,286,308; June 16.
Fishing device, Automatic. L. E. Ladd. 2,286,743; June 16.
Fixture, Adjustable hook support. E. Hagerstrom. 2,286,539; June 16.
Flash remover, Inside. G. W. Sower. 2,286,513; June 16.
Flashlight synchronizing apparatus for cameras. M. R. Hutchison, Jr. 2,286,808; June 16.
Flatiron, Self-lifting. J. Kremer. 2,286,284; June 16.
Flexible coupling. R. A. Smith. 2,286,444; June 16.
Flotation process. P. A. Ray. 2,286,374; June 16.
Flow beam, Automatic auxiliary. J. B. Newell and J. E. Low. 2,286,299; June 16.
Fluid control means for portable irrigating systems. G. C. Kellaher and H. D. Smith. 2,286,623; June 16.
Fluorescent lamp. D. Hess. 2,286,851; June 16.
Flushing system. A. Carrillo. 2,286,896; June 16.
Flux, Aluminum soldering. M. A. Miller. 2,286,298; June 16.
Focusing system. J. Dahl. 2,286,471; June 16.
Folding machine. E. D. Coston. 2,286,467; June 16.
Frame: *See*—
Drawing frame.
Freezing process. H. A. Noyes. 2,286,225; June 16.
Frequency modulation receiver. D. E. Foster. 2,286,356; June 16.
Frequency modulation receiver. W. van B. Roberts. 2,286,377; June 16.
Friction coupling. P. M. Freer. 2,286,532; June 16.
Fuel burner, Liquid. D. M. Jones. 2,286,489; June 16.

Fuel conditioning means, Liquid. H. B. Holthouse, Jr. 2,286,857; June 16.
Fuel, Manufacture of motor. L. C. Kemp. 2,286,814; June 16.
Furnace: *See*—
Air heating furnace. Hot air furnace.
Electric furnace. Induction furnace.
Fusible protective device. E. H. Taylor. 2,286,518; June 16.
Galvanized articles, Making. A. F. Bradley. 2,286,194; June 16.
Game. C. W. May. 2,286,368; June 16.
Game table. C. M. Dean. 2,286,901; June 16.
Garbage disposer. D. O. Tranbarger. 2,286,520; June 16.
Garment. C. C. Arpin. 2,286,889; June 16.
Garment. S. O. Jacks. 2,286,281; June 16.
Garment fastener. D. I. Reiter. 2,286,438; June 16.
Garment, Foundation. M. Kahn. 2,286,186; June 16.
Garment hanger. B. A. Russo. 2,286,382; June 16.
Garment protector. I. J. Cool, Jr., and E. H. Wildman. 2,286,788; June 16.
Garter, Stocking. F. M. Woodward. 2,286,525; June 16.
Gas mixtures, Analysis of. V. F. Hanson. 2,286,985; June 16.
Gasoline dispensing pump. E. E. Eickmeyer. 2,286,476; June 16.
Gauge: *See*—
Oil pressure gauge. Track inspection gauge.
Gear: *See*—
Reverse gear.
Gear cutting attachment. J. W. Barcus. 2,286,709; June 16.
Gear for railway cars, Draft. H. E. Van Dorn. 2,286,590; June 16.
Gear shifting mechanism, Remote. N. E. Wahlberg. 2,286,773; June 16.
Gear transmission, Hydraulic. F. W. Hild. 2,286,485; June 16.
Gearing mechanism for effecting speed changes. L. H. Scott. 2,286,236; June 16.
Generating system for constant voltage at variable speed of prime mover. E. G. Gallagher. 2,286,185; June 16.
Generator: *See*—
Steam generator.
Generator regulator. E. I. Shobert. 2,286,315; June 16.
Glass stock, Method and apparatus for feeding. C. Siegfried. 2,286,653; June 16.
Glass wool, Making. D. Kleist and G. Slayter. 2,287,007; June 16.
Glasses, Treating borosilicate. H. P. Hood and M. E. Nordberg. 2,286,275; June 16.
Glove, X-ray protective. L. Sternlicht. 2,286,877; June 16.
Granular coated article and its manufacture. H. P. Kirchner. 2,286,208; June 16.
Grating installation. L. Nagin. 2,286,757; June 16.
Grating structure. G. G. Greulich. 2,286,204; June 16.
Gravimetric feeder. E. M. Lieberman. 2,286,554; June 16.
Grinding machine. A. W. Mall. 2,286,293; June 16.
Gripping device for stepladders, Automatic. H. J. Myers. 2,286,923; June 16.
Guanidine ferricyanide complex. R. B. Barnes. 2,286,330; June 16.
Guard, Miniature head. M. E. Goldstein. 2,286,535; June 16.
Guide for dry shavers, Hair trimming. L. E. Wallace. 2,286,660; June 16.
Gum, Chewing. J. N. Borglin. 2,286,712; June 16.
Gunnery means, Airplane front. V. J. Burnelli. 2,286,341; June 16.
Handle and the like, Mop. F. Supnick. 2,286,655; June 16.
Hanger: *See*—
Garment hanger.
Hanger for conductor pipes. J. Merryweather. 2,286,562; June 6.
Hat, Safety. B. Catalene, E. V. Karabin, and W. J. Sharbaugh. 2,286,843; June 16.
Head for spools, reels, beams, or beam-heads. R. V. Olson and B. A. Johnson. 2,286,640; June 16.
Hearse. H. A. Toulmin, Jr. 2,286,395; June 16.
Heat exchanger. F. M. Young. 2,286,398; June 16.
Heat testing apparatus for metal or solid objects. S. P. Rockwell. 2,287,008; June 16.
Heat transfer system. G. Grubb. 2,286,205; June 16.
Heat treating process. H. A. Liebhafsky. 2,286,745; June 16.
Heat treatment for solid particles. T. P. Simpson, V. A. Kalichevsky, and J. W. Payne. 2,286,654; June 16.
Heater: *See*—
Orchard heater. Water heater.
Suction heater.
Heater. H. B. Holthouse. 2,286,853–4; June 16.
Heater for motor vehicles. V. A. Turdin. 2,286,941; June 16.
Heating apparatus. W. S. Landon and P. S. Russe. 2,286,630; June 16.
Heating apparatus, Injection chamber. D. C. Narten. 2,286,501; June 16.
Heating system. T. W. Torr. 2,286,519; June 16.
Heels to shoes, Method of and machine for attaching. F. L. Brandt. 2,286,195; June 16.
Hinge, Airfoil. A. J. Swanson. 2,286,516; June 16.
Hoist. R. E. Smith. 2,286,388; June 16.
Hoist, Hydraulic. J. V. Bankson. 2,286,947; June 16.
Holder: *See*—
Eraser holder. Record sheet holder.
Pin holder. Wire holder.
Holding device for laundry pressing machines. R. L. Custer. 2,286,348; June 16.
Holes in minerals and mineraliike materials, Springing. B. B. Aitchison. 2,286,782; June 16.
Hose reel. A. A. Ewald. 2,286,904; June 16.
Hosiery. J. H. Miller and F. Evans. 2,286,753; June 16.
Hosiery. L. D. Wagenhorst. 2,286,659; June 16.
Hot air furnace. C. Blair. 2,286,665; June 16.
Hydraulic apparatus. J. J. Warner. 2,286,661; June 16.
Hydraulic control for variable delivery pumps. G. M. Geiger. 2,286,358; June 16.
Hydraulic control system. W. A. Traut. 2,286,880; June 16.
Hydraulic mechanism. T. Brown. 2,286,256; June 16.
Hydraulic motor. H. F. Gorsuch. 2,286,537; June 16.
Hydrocarbons, Alkylating. H. Heinemann. 2,286,543; June 16.
Hydrocarbons, Alkylation of isoparaffinic. W. E. Bradley and K. J. Korpi. 2,286,183; June 16.
Hydrocarbons, Isomerization of normal paraffinic. H. Heinemann. 2,286,542; June 16.
Hydrocarbons, Producing paraffinic. W. E. Bradley and K. J. Korpi. 2,286,184; June 16.
Hydrocarbons, Segregating. E. A. Ocon. 2,286,503; June 16.
Hydrocarbons, Treatment of. C. H. Angell. 2,286,453; June 16.
Hydrocarbons, Treatment of. G. Egloff and C. G. Dryer. 2,286,475; June 16.
Ignition system for airplane engines and the like. L. H. Scott. 2,286,233; June 16.
Illuminated sign. T. Taaffe. 2,286,588; June 16.
Indicator: *See*—
Level indicator. Receiver tuning indicator.
Indicator. R. S. Brescka and E. C. Scott. 2,286,335; June 16.
Indicator for view finders, Level. C. W. Ingels. 2,286,810; June 16.
Induction furnace. H. C. Fisher. 2,286,481; June 16.
Insect destroyer. A. C. Petry. 2,286,568; June 16.
Insecticidal composition. C. L. Moyle and F. W. Fletcher. 2,286,222; June 16.
Insecticide. C. W. Murray. 2,286,636; June 16.
Inspection apparatus, Bottle. L. T. Sachtleben. 2,286,836; June 16.
Instrument, Bricklaying. L. W. Carr. 2,286,669; June 16.
Instrument, Humidity responsive. H. Bohnstedt. 2,286,710; June 16.
Insulator, Spool. L. E. Johnson. 2,286,488; June 16.
Integrating means. H. L. Merrick. 2,286,297; June 16.
Interpolymers and preparation of same. H. W. Arnold. 2,286,251; June 16.
Inverter circuit. H. J. Brown. 2,286,842; June 16.
Irrigation ridger. K. D. Priestley. 2,286,305; June 16.
Jewelry display device. C. Silverman. 2,286,385; June 16.
Jig, Fletching. W. C. Rohde. 2,286,574; June 16.
Joint: *See*—
Universal joint.
Ketones, Mercurated aryl-alkyl. A. W. Ralston and R. J. V. Wa. 2,286,226; June 16.
Ketones, Oxidation of alicyclic. S. H. McAllister. 2,286,559; June 16.
Key retaining means. J. C. Davio. 2,286,265; June 16.
Knife, Brush. R. D. Brown. 2,286,951; June 16.
Knitted fabrics, Method and apparatus for producing. P. L. Thurston. 2,286,771; June 16.
Knitting machine. R. H. Lawson and A. N. Cloutier. 2,287,001; June 16.
Knitting machine and method. W. E. Ralston. 2,286,227; June 16.
Knitting machine, Circular. E. Crommie. 2,286,469; June 16.
Knitting machine, Circular. J. C. H. Hurd and H. H. Holmes. 2,286,805; June 16.
Knitting machine for single unit stockings, Heel. K. Wickardt, E. Eissner and A. Verbeek. 2,286,325; June 16.
Knitting machine of the double axially opposed needle cylinder type, Circular. J. C. H. Hurd and H. H. Holmes. 2,286,806; June 16.
Lamp: *See*—
Black-out lamp. Electric hand lamp.
Color projection lamp. Fluorescent lamp.
Lamp and starting circuit therefor, Integral high pressure. E. C. Dench. 2,286,789; June 16.
Lamp mount. N. E. Wahlberg. 2,286,448; June 16.
Latch: *See*—
Door latch.
Latch and operating means therefor, Hood. R. Hill and W. H. Krause. 2,286,736; June 16.
Latch for alligator type hoods, Camming. W. H. Krause. 2,286,740; June 16.
Latch mechanism. H. J. Murphy. 2,286,992; June 16.
Lathe, Automatic. P. Boillat. 2,286,457; June 16.
Lens attachment for sewing machine lighting devices. W. O. Langille. 2,286,492; June 16.
Lens blocking apparatus. M. Sunskes. 2,286,319; June 16.
Lens, Opaque apertured signal. C. L. Farrand and H. S. Newcomer. 2,286,201; June 16.

Level indicator, Liquid. F. McNeill. 2,286,919; June 16.
Level responsive device, Liquid. B. P. Pond. 2,286,929; June 16.
Light arrangement for aircraft, Retractable landing. W. A. Bruno. 2,286,338; June 16.
Light modulation system. V. C. Hall. 2,286,729; June 16.
Linoleum, Package of. T. L. Morrill, Jr., and M. L. Hansen. 2,286,500; June 16.
Liquid pump. B. G. Parsons. 2,286,301–2; June 16.
Liquid supply system. C. P. Fuller. 2,286,613; June 16.
Lock: *See*—
Oar lock.
Locking means for anode structures. C. C. Herskind. 2,286,802; June 16.
Locknut. B. G. Carlson. 2,286,895; June 16.
Lubricated valve. G. F. Scherer. 2,286,689; June 16.
Luminous tube. I. Sors. 2,286,239; June 16.
Machine and method for making garment hangers. L. A. Young. 2,286,529; June 16.
Machine for applying pressure to shoe parts. E. Casavant. 2,286,261; June 16.
Machine for assembling and/or disassembling the parts of spring tensioned devices. A. J. Taylor. 2,286,695; June 16.
Machine for cutting dies and the like. L. D. Libby. 2,286,821; June 16.
Machine for finishing top-lift edges. O. L. Lawson. 2,286,214; June 16.
Machine for forming elements. W. J. Wiley. 2,286,885; June 16.
Machine for grinding facets in lens edges. A. L. Anderson. 2,286,886; June 16.
Machine for performing linking and seaming operations on knitted fabric. B. J. Coltman and R. J. Thornton. 2,286,787; June 16.
Machine for plucking poultry and the like. O. Sandlin. 2,286,650; June 16.
Machine for sharpening lawn mowers. J. P. Maynard. 2,286,970; June 16.
Machine for supplying treatment material to voids beneath pavement structures. J. W. Poulter. 2,286,761; June 16.
Machine for testing metallic cartridge belt links. H. A. Laystrom and P. O. Persson. 2,286,286; June 16.
Magnesium base alloy. J. C. McDonald. 2,286,866–70; June 16.
Magnesium, Production of. R. C. Kirk. 2,286,209; June 16.
Magnesium zirconium alloy. F. Sauerwald. 2,286,311; June 16.
Magnetically controlled load testing machine. P. L. Pendleton. 2,286,642; June 16.
Magnetoelectric machine. L. H. Scott. 2,286,232; June 16.
Magnetoelectric machine. L. H. Scott. 2,286,234; June 11.
Magnifying point spotting hammer. A. M. Lake. 2,286,859; June 16.
Manganese alloy. R. S. Dean. 2,286,199; June 16.
Marking control system for dictation machines. H. P. Clausen. 2,286,347; June 16.
Mask structure, Paint. J. E. Duggan. 2,286,473; June 16.
Massage roller. J. L. Wentz. 2,286,324; June 16.
Material, Cellulose composition. R. H. McKee. 2,286,220; June 16.
Material, Device for separating strip. M. B. Hall. 2,286,960; June 16.
Material, Packing. S. C. Carter. 2,286,260; June 16.
Materials and using the same, Purifying. R. C. Hopkins. 2,286,546; June 16.
Measuring and controlling system. J. F. Luhrs. 2,286,864; June 16.
Mechanism for loose tine grapple hay fork, Trip. H. O. Petraske and J. B. Olson. 2,286,975; June 16.
Metal article and making, Hard. W. W. DeLamatter. 2,286,672; June 16.
Metal container, Sheet. A. L. Merolle. 2,286,221; June 16.
Metals, Refining of nonferrous. J. R. Stack. 2,286,240–1; June 16.
Meter with compensating device, Adjustable rotary. C. S. Hazard. 2,286,411; June 16.
Method and mold for applying stucco on walls to represent stone. D. S. Fralick. 2,286,531; June 16.
Methyl silicon halides. E. G. Rochow. 2,286,763; June 16.
Microscope, Comparison. J. D. Minton and W. F. Klemm. 2,286,430; June 16.
Mill: *See*—
Disintegrating mill. Stamp mill.
Mineral piercing and cutting. R. B. Aitchison, C. J. Burch, and C. W. Swartout. 2,286,191; June 16.
Mineral piercing and cutting. R. B. Aitchison, G. H. Smith, and C. W. Swartout. 2,286,192; June 16.
Mixer: *See*—
Amalgam mixer.
Concrete mixer. Paint mixer.
Mold: *See*—
Bottle mold.
Mold for concrete pathways. T. W. Flory. 2,286,612; June 16.
Mold for substabilizers. E. J. Clark. 2,286,716; June 16.
Mold for use with concrete forms, Core. C. E. Newell. 2,286,564; June 16.
Molding and like fastener and installation thereof. W. I. Jones. 2,286,988; June 16.
Molding apparatus. E. C. Nocar. 2,286,994; June 16.
Molding compositions from naturally occurring cellulosic materials and preparing the same. R. O. Phillips and E. H. W. Rottsieper. 2,286,643; June 16.
Mop. E. Altland. 2,286,944; June 16.
Mortar and pestle. E. L. Chott. 2,286,599; June 16.
Motor: *See*—
Hydraulic motor.
Motor. V. and W. Kobler. 2,286,629; June 16.
Motor support. E. A. Freed. 2,286,482; June 16.
Motorcycle. A. Ronning. 2,286,575; June 16.
Mounting: *See*—
Door mounting. Ophthalmic mounting.
Mounting for automobiles, Insulated body. D. W. Sherman. 2,286,582; June 16.
Mouse trap. O. W. Johnson. 2,286,912; June 16.
Mower. C. T. Ray. 2,286,872; June 16.
N-alkenyl-aminophenols. I. Gubelmann. 2,286,678; June 16.
N-methyl-p-amino-phenol, Purification of. A. W. M. Dickins and L. J. Behrndt. 2,286,796; June 16.
Neckties, Making. V. Naftali. 2,286,224; June 16.
Negative feedback circuit. L. Brück. 2,286,337; June 16.
Net for ships, Life saving side. A. W. Scrutton. 2,286,936; June 16.
Nozzle, Cooled injection. W. Volt. 2,286,658; June 16.
Nozzle, Vacuum cleaner. W. Leathers. 2,286,818; June 16.
Nut and making same, Self-locking. F. W. Brooke. 2,286,336; June 16.
Nut, Locking. J. Todd. 2,286,981–2; June 16.
Nut, Self-locking. F. W. Brooke. 2,286,667; June 16.
Oar lock. J. G. Sparkes. 2,286,769; June 16.
Oil acid-modified polyhydric alcohol-polybasic acid resin. E. T. Clocker. 2,286,466; June 16.
Oil burner. L. L. Scott. 2,286,581; June 16.
Oil burner. G. H. Tessmer. 2,286,446; June 16.
Oil pressure gauge, Electric. R. Clason. 2,286,717; June 16.
Oil pump and filter. F. F. Kishline. 2,286,816; June 16.
Oil, Purifying. J. R. Miller. 2,286,369; June 16.
Oil, Refining hydrocarbon. V. L. Chechot. 2,286,344; June 16.
Oil wells, Treatment of. A. D. Garrison. 2,286,724; June 16.
Oils, Treatment of hydrocarbon. V. L. Chechot. 2,286,343; June 16.
Opener, Paper cup. E. Clement. 2,286,465; June 16.
Operating mechanism for permeability tuning purposes, Multiplying. M. J. Kirk and F. N. Jacob. 2,286,283; June 16.
Ophthalmic mounting. M. J. Gould. 2,286,483; June 16.
Optical image system. I. M. Terwilliger. 2,286,242; June 16.
Optical system for cameras and the like. W. L. Wright. 2,286,526; June 16.
Orchard heater. W. A. Lea and E. V. Ehrhardt. 2,286,366; June 16.
Oscillation control means. P. Padva. 2,286,641; June 16.
Oxidic compounds by silicon monoxide, Reduction of. E. Zintl and H. Gruve. 2,286,663; June 16.
Package, Match-book. W. C. Gartelman. 2,286,533; June 16.
Package or container. G. R. Thew. 2,286,879; June 16.
Packing means for shafts. H. E. La Bour. 2,286,425; June 16.
Paint mixer. J. C. Kelly and E. R. Brazie. 2,286,913; June 16.
Paper and/or board, Manufacturing. A. Tuten. 2,286,942; June 16.
Paper, Manufacture of coated. J. H. Cagle. 2,286,259; June 16.
Paring machine, Fruit. H. W. Rogers. 2,286,648; June 16.
Partition means. V. F. Greaves. 2,287,005; June 16.
Peeler, Vegetable. H. W. Eakins. 2,286,352; June 16.
Peeling machine, Fruit. H. W. Rogers. 2,286,649; June 16.
Phenoxyacylamino derivatives. C. E. Sparks. 2,286,390; June 16.
Photoflash synchronizing device. W. A. Riddell. 2,286,832; June 16.
Photographic apparatus. O. Riszdorfer. 2,286,833; June 16.
Photographic device. F. W. Kidder. 2,286,628; June 16.
Photographic element containing a disazo dye. M. W. Seymour and J. J. Chechak. 2,286,838; June 16.
Photographic element containing a trisazo dye. J. J. Chechak. 2,286,714; June 16.
Photographic printing materials and developers. O. Sus. 2,286,656; June 16.

Photography, Color. E. Weyde and E. Trabert. 2,286,662; June 16.
Photomechanical apparatus. M. J. Weber. 2,286,883; June 16.
Photomechanical color reproduction. J. A. C. Yule. 2,286,779–80; June 16.
Pickup, Vibration. P. J. Costa and G. E. Holback. 2,286,897; June 16.
Pictures, Projecting color. G. F. Rackett. 2,286,930; June 16.
Pigment and producing the same, Titanium. M. L. Hanahan and R. M. McKinney. 2,286,910; June 16.
Pigment production, Titanium oxide. F. Von Bichowsky and R. M. McKinney. 2,286,882; June 16.
Pin element. R. Mants. 2,286,216; June 16.
Pin holder, Bob. L. C. Apt. 2,286,704; June 16.
Pineapple, Treating. L. N. Jones. 2,286,998; June 16.
Pipe connection. C. E. Norton. 2,286,566; June 16.
Pipe joint fitting, Universal. C. E. Norton. 2,286,565; June 16.
Pipe leak sealing sleeve. P. D. Merrill. 2,286,751; June 16.
Pipe or culvert. H. S. Claybaugh. 2,286,197; June 16.
Piston expander. W. C. Knoebel. 2,286,858; June 16.
Plasticizer. G. W. Seymour and B. B. White. 2,286,314; June 16.
Plate, Eraser shield. J. I. Holt. 2,286,417; June 16.
Plug and making the same, Spark. S. H. Stupakoff. 2,286,515; June 16.
Plug shielding, Spark. J. J. Mascuch. 2,286,918; June 16.
Pocketknife. W. D. Wilbur. 2,286,524; June 16.
Polarizing bodies, Producing light. L. Pollack. 2,286,569; June 16.
Polymerization product of alpha-chloroacrylic compounds and preparation of same. H. W. C. Crawford and N. McLeish. 2,286,264; June 16.
Pore content of subterranean strata, Extracting the. L. A. Douglas. 2,286,673; June 16.
Position-controlling apparatus. W. L. V. Pollard. 2,286,571; June 16.
Posting board. E. A. Godley. 2,286,676; June 16.
Posture chair. E. A. and J. F. Cramer. 2,286,468; June 16.
Potatoes, Method and apparatus for processing. M. Prince and E. J. Lame. 2,286,644; June 16.
Powder, Copper. J. D. Shaw and W. N. Bevock. 2,286,297; June 16.
Power cable, Portable. J. J. Morrison. 2,286,826; June 16.
Power drive for washing machines. T. R. Smith. 2,286,768; June 16.
Power mechanism for hay balers. W. A. Hill. 2,286,486; June 16.
Power take-off attachment. H. A. Hutchins. 2,286,547; June 16.
Press: *See*—
Punch press.
Press with plate type frame. W. Ernst. 2,286,721; June 16.
Pressure measuring apparatus. R. T. Hurley. 2,286,621; June 16.
Print washer. S. Drucker. 2,286,351; June 16.
Printing materials, Diazotype. G. Werner. 2,286,701; June 16.
Protector: *See*—
Garment protector.
Puller: *See*—
Valve puller.
Pump: *See*—
Diesel fuel injector pump Liquid pump.
Gasoline dispensing pump. Well pump.
Pumping mechanism. J. S. Parenti. 2,286,926; June 16.
Punch press. D. C. Verson and A. Clements. 2,286,943; June 16.
Pyrometallurgical process for the production of pig-iron and ferro-chromium. P. H. Royster. 2,286,577; June 16.
Quick acting coupling. R. B. Comins. 2,286,263; June 16.
Rake. E. Swanson. 2,286,939; June 16.
Razor, Safety. A. D. Krigbaum. 2,286,553; June 16.
Rear end brake valve. R. E. Miller. 2,286,684; June 16.
Receiver tuning indicator, Frequency modulation. W. A. Harris. 2,286,410; June 16.
Receiver tuning indicator, Frequency modulation. E. W. Herold. 2,286,412; June 16.
Receptacle: *See*—
Capped receptacle.
Record changing apparatus. A. L. Knox. 2,286,490; June 16.
Record sheet holder. B. Berger and P. Humphrey. 2,286,331; June 16.
Recording mechanism. H. N. Deane and J. A. Dell. 2,286,902; June 16.
Rectifier. E. Mittelmann. 2,286,499; June 16.
Reducing apparatus, Fracture. E. E. Longfellow. 2,286,556; June 16.
Reducing apparatus, Material. E. F. Huddle. 2,286,277; June 16.
Reel: *See*—
Hose reel.
Reel. R. W. Brown. 2,286,460; June 16.
Reflector and holding means therefor. F. Sale. 2,286,934; June 16.
Refrigerating apparatus. A. A. Kucher. 2,286,491; June 16.
Refrigerating process. N. H. Hiller, Jr. 2,286,618; June 16.
Refuse loaders, Drive for. C. C. Ottoson. 2,286,925; June 16.
Registering mechanism driving and reset means interlock. E. H. Piper. 2,286,506; June 16.
Regulating system, Alternating current. N. H. Grober. 2,286,727; June 16.
Regulator: *See*—
Generator regulator.
Regulator. B. E. Lenehan. 2,286,820; June 16.
Relay for fluorescent lamps, Time. D. S. Gustin. 2,286,800; June 16.
Resin. C. J. Mighton. 2,286,752; June 16.
Retarded self-closing valve. J. F. Molloy. 2,286,371; June 16.
Reverse gear. A. T. Nabstedt. 2,286,223; June 16.
Rims on paper cups, Method of and apparatus for producing rolled. F. C. Smith. 2,286,692; June 16.
Roll tension device. F. K. Hendrickson. 2,286,616; June 16.
Roller. E. F. Huddle. 2,286,276; June 16.
Rowboat attachment. M. L. Knapp. 2,286,[illegible]; June 16.
Rubber article, Coated. G. F. [illegible] 2,286,[illegible]; June 16.
Rubber composition. H. A. Tunstall and R. B. Evans. 2,286,[illegible]; June 16.
Rubber, Gasoline. D. Roberts and R. C. B. Merrick. 2,286,290; June 16.
Rubber, Reclaiming. E. H. Johnson. 2,286,966; June 16.
Rubber, Treating. W. A. Gordon. 2,286,405; June 16.
Sadiron. R. L. Huffman. 2,286,487; June 16.
Safety pilot burner. T. B. Focke and A. K. Phelps. 2,286,810; June 16.
Safety switch. W. A. Ray. 2,286,375; June 16.
Salt of the pseudo acid of nitroaminoguanidine and preparing the same, Barium. K. D. Ashley. 2,286,327; June 16.
Salt solutions, Treating hydrolyzable titanium. F. Von Bichowsky. 2,286,881; June 16.
Salts of monoalkyl esters of sulphuric acid, Guanyl urea. D. W. Jayne, Jr., and H. M. Day. 2,286,364; June 16.
Sand, gravel, and the like, Washing of. J. O. Samuel. 2,286,979; June 16.
Sanding control apparatus, Locomotive. C. M. Hines. 2,286,680; June 16.
Saw. W. J. Fordon. 2,286,530; June 16.
Saw head, Pole. J. A. Hoyt. 2,286,418; June 16.
Scarfing. W. Van Triest. 2,286,591; June 16.
Scraper. G. A. Vaughn. 2,286,699; June 16.
Scraping tool. A. W. Abrahamsen. 2,286,190; June 16.
Screens, Throwout mechanism for. L. G. Symons. 2,286,770; June 16.
Screw sticks, Making. W. H. Ure. 2,286,698; June 16.
Screws to work, Applying. M. R. Hutchison, Jr. 2,286,809; June 16.
Seal for coin bags and the like. L. B. Wheeler. 2,286,243; June 16.
Sealing compositions, Puncture. L. R. Houser and R. W. Evans. 2,286,963; June 16.
Seat: *See*—
Adjustable seat.
Seat and hinge combination, Toilet. W. Long. 2,286,555; June 16.
Seat construction. A. Benzick and H. C. Rusch. 2,286,784; June 16.
Seismic surveying. J. O. Parr, Jr. 2,286,567; June 16.
Seismometer. D. Silverman. 2,286,386; June 16.
Self-loader. E. F. Huddle. 2,286,278; June 16.
Self-loading vehicle. R. H. Frost. 2,286,723; June 16.
Separator: *See*—
Air separator. Centrifugal separator.
Sewing apparatus. P. Gardner and R. Kagan. 2,286,357; June 16.
Sewing machine. W. E. Le Roy and M. Phillips. 2,286,426; June 16.
Sewing machine. G. Sauer. 2,286,441; June 16.
Shade, Eye. J. A. Gilmartin. 2,286,269; June 16.
Shaving machine. J. T. Scully. 2,286,443; June 16.
Shears, Making pinking. D. L. Schwartz. 2,286,874; June 16.
Shears, Motor driven grass. M. Klose. 2,286,552; June 16.
Sheet material, Manufacture of. G. W. E. Nicholson. 2,286,924; June 16.
Shell, Hollow. T. E. Murray and G. H. Phelps. 2,286,971; June 16.
Shells, Internally refinishing hollow. F. J. Lang. 2,287,000; June 16.
Shield, Face. M. D. Livingston. 2,286,287; June 16.
Shield, Glare. P. A. Schendeler. 2,286,935; June 16.
Shipping block. T. D. Smith. 2,286,876; June 16.
Shock absorber valve structure, Hydraulic. G. M. Magrum. 2,286,290–1; June 16.
Shower spray head with diverter. S. Royal. 2,286,933; June 16.
Sighting means for firearms. G. N. Albree. 2,286,703; June 16.

Sign: *See*—
Animated sign. Illuminated sign.
Display sign.
Signal: *See*—
Door lock signal. Warning signal.
Signal for speedometers, Color. A. W. Hills. 2,286,737; June 16.
Sill, Side. A. W. Clarke and R. G. Nichols. 2,286,954; June 16.
Slicing machine. W. A. van Berkel. 2,286,772; June 16.
Slider, Sliding. D. Rabinow. 2,286,373; June 16.
Slip. C. A. Stegman. 2,286,938; June 16.
Slotting tool, Adjustable. J. J. McCabe. 2,286,633; June 16.
Snubber. R. B. Cottrell and W. S. Spieth. 2,286,845; June 16.
Snubber. L. A. Lehrman. 2,286,631; June 16.
Snubber. D. M. Light. 2,286,861; June 16.
Socket and socket installation. S. M. Del Camp. 2,286,984; June 16.
Socket, Ratchet. S. Mandl. 2,286,917; June 16.
Solvent deasphalting and dewaxing. W. A. McMillan. 2,286,823; June 16.
Solvent extraction of petroleum. M. M. Holm. 2,286,852; June 16.
Sound-producing and sound-reproducing apparatus. E. W. Kellogg. 2,286,742; June 16.
Sound recording and reproducing machine. H. P. Clausen. 2,286,346; June 16.
Spacing mechanism for conveyor. F. B. Coumbe and J. W. Romig. 2,286,603; June 16.
Speed control mechanism. J. M. Lucarelle and C. Ecklund. 2,286,187; June 16.
Speed control unit. M. P. and A. Winther. 2,286,777; June 16.
Speed drive, Variable. H. H. Talbot. 2,286,694; June 16.
Speed fastener. C. D. Ryder. 2,286,383; June 16.
Spindle assembly. A. W. Mall. 2,286,292; June 16.
Spinning frame and similar machines. L. M. Cotchett. 2,286,602; June 16.
Spout, Bottle pouring. F. M. Gaines. 2,286,906; June 16.
Spout, Pouring. J. L. Martin. 2,286,218; June 16.
Spring arrester. R. J. Brault. 2,286,254; June 16.
Stamp mill. G. H. Gruss. 2,286,728; June 16.
Starter for small motors, Recoil. W. F. Krenzke. 2,286,419; June 16.
Steam generator. W. F. Keenan, Jr. 2,286,207; June 16.
Steering mechanism. E. J. Abbe. 2,286,249; June 16.
Stoker, Locomotive. S. G. Jones. 2,286,622; June 16.
Stopping mechanism for yarn coning machines. W. G. Faw. 2,286,722; June 16.
String cutter. O. B. Lyshaug. 2,286,289; June 16.
Strip and mechanism therefor, Slitting crowned. C. J. Gibbons. 2,286,675; June 16.
Strip feeding means. C. M. Williamson. 2,286,451; June 16.
Suction cleaner. R. Kahn. 2,286,421; June 16.
Suction drainage and irrigation tube, Surgical. R. C. Chaffin. 2,286,462; June 16.
Suction heater. H. B. Holthouse. 2,286,855; June 16.
Sulphides, Preparing thiuram. R. L. Sibley. 2,286,690; June 16.
Support: *See*—
Arch support. Motor support.
Display support.
Surgical instrument. S. H. Sauter. 2,286,578; June 16.
Suspension, Flexible. T. Griswold, Jr. 2,286,615; June 16.
Sweeper, Carpet. A. H. Haberstump. 2,286,270; June 16.
Sweeping machine, Street. F. D. Wilson and J. Antos. 2,286,245; June 16.
Swimming cap. N. C. Sheffield, F. A. Greenwood, and L. Mackie. 2,286,652; June 16.
Switch: *See*—
Electric switch. Safety switch.
Electric thermal switch. Thermostatic switch.
Switch for motor vehicles, Starter. I. C. Morris. 2,286,921; June 16.
Switch for starter systems. F. J. Kirnberger. 2,286,682; June 16.
Switch for use in telephone or like systems, Automatic. G. T. Baker. 2,286,328; June 16.
Switching mechanism. K. L. Frederick. 2,286,799; June 16.
Synchroniser tester means for cameras. M. Schwartz and W. Castedello. 2,286,512; June 16.
Table: *See*—
Game table.
Table top or the like construction. F. Mastrangelo. 2,286,295; June 16.
Tail tie, Sanitary. L. Bubenic. 2,286,258; June 16.
Tampon. W. M. Knight. 2,286,817; June 16.
Teakettle, Electric. K. B. Dafforn and R. I. Huffman. 2,286,470; June 16.
Telegraph apparatus, Printing. W. J. Zenner. 2,286,248; June 16.
Telemetric device. W. G. Green and E. H. Cooley. 2,286,406; June 16.
Telephone steriliser. G. L. Danley and A. J. Gordon. 2,286,900; June 16.
Telephone system. I. Molnar and M. E. Griffins. 2,286,431; June 16.
Television receiving system. E. L. C. White and R. P. Chasmar. 2,286,450; June 16.
Television system. O. B. Hanson. 2,286,540; June 16.
Temperature and humidity control system. G. D. Kingsland. 2,286,551; June 16.
Temperature compensating circuit, Piezoelectric. M. P. Odell. 2,286,436–7; June 16.
Testing machine. D. C. Scott. 2,286,651; June 16.
Theft-preventing device. C. B. Breedlove. 2,286,950; June 16.
Thermostat. R. W. De Lancey. 2,286,266; June 16.
Thermostatic switch. G. S. Braun. 2,286,459; June 16.
Thiocyanate, Production of ammonium. W. H. Hill. 2,286,273; June 16.
Thread chasing attachment for lathes. F. E. Cheever. 2,286,715; June 16.
Threading and facing device, Combined. L. S. Falls. 2,286,477; June 16.
Threads and the like articles, Manufacture and production of artificial. H. J. Hegan, J. H. Givens, and L. Rose. 2,286,962; June 16.
Thymol, Making. M. S. Carpenter. 2,286,953; June 16.
Tilling apparatus. J. J. Wallace. 2,286,592; June 16.
Tire, Noncollapsible pneumatic. H. Quinn. 2,286,507; June 16.
Tobacco curing system. C. T. Jackson. 2,286,206; June 16.
Tobacco feed, Cigarette machine. C. F. Randolph. 2,286,306; June 16.
Tobacco product. E. Ott. 2,286,639; June 16.
Tool: *See*—
Scraping tool. Slotting tool.
Tool for connecting electrical conductors and the like. A. J. Mahr. 2,286,558; June 16.
Tool supporting means. P. R. Gjertsen. 2,286,360; June 16.
Toolhead, Rotary. C. Martin. 2,286,217; June 16.
Torpedo tube. H. Scott-Paine. 2,286,764; June 16.
Total taking mechanism. R. Anschütz. 2,286,887; June 16.
Toy gun. P. Vincent. 2,286,700; June 16.
Track inspection gauge. E. F. Boettcher. 2,286,456; June 16.
Track switch box stuffing box. F. C. Lavarack. 2,286,860; June 16.
Traffic post, Highway. A. J. Haines. 2,286,959; June 16.
Transfer applying apparatus. W. V. Bowman and C. M. Latta. 2,286,458; June 16.
Transfer device, Heat. W. W. Higham. 2,286,271; June 16.
Translating system, Sound. R. A. Lynn and J. L. Hathaway. 2,286,494; June 16.
Transmission, Automatic. R. E. Keller. 2,286,549; June 16.
Transmitting device with synchronizer, Fluid motion. W. Worth. 2,286,452; June 16.
Trap: *See*—
Mouse trap.
Tray, Freezing. C. H. Steenstrup. 2,286,693; June 16.
Trigger-mechanism for firearms. W. C. Roemer. 2,286,932; June 16.
Tripping mechanism. G. J. Grizey. 2,286,484; June 16.
Truck. H. B. Holthouse. 2,286,803; June 16.
Truck, Cane. J. G. Holmstrom. 2,286,416; June 16.
Truck, Car. W. H. Mussey. 2,286,563; June 16.
Truck, Wheel. R. Eksergian. 2,286,608; June 16.
Tube: *See*—
Luminous tube. Torpedo tube.
Suction drainage and irrigation tube.
Tube bending apparatus. E. E. Brooks. 2,286,255; June 16.
Tube closure. D. P. Loomis. 2,286,916; June 16.
Tube nosing machine. E. W. Schulenberg. 2,286,511; June 16.
Tubing, Plywood. C. Farny. 2,286,267; June 16.
Tuned circuit. B. Trevor. 2,286,396; June 16.
Turbine for rocket raft, Auxiliary. R. H. Goddard. 2,286,908; June 16.
Turbine, Internal combustion. W. E. Trumpler. 2,286,940; June 16.
2-methyl-2-alkoxy-3-halogen tetrahydrofuranes, Manufacture of. K. Westphal and H. Andersag. 2,286,884; June 16.
Universal joint. F. F. Miller, Jr. 2,286,498; June 16.
Universal joint, Constant velocity. W. E. Amberg. 2,286,182; June 16.
Valve: *See*—
Air vent valve. Rear end brake valve.
Lubricated valve. Retarded self-closing valve.
Valve. A. W. Burks. 2,286,713; June 16.
Valve. G. H. Smith. 2,286,841; June 16.
Valve control. J. J. Bruckel and W. F. Plume. 2,286,597; June 16.
Valve for gas and liquid separators, Gas vent. C. P. Grimth. 2,286,536; June 16.
Valve for milking machines. J. R. Lowry. 2,286,557; June 16.
Valve puller, Standing. J. Kelly and D. M. Hammett. 2,286,550; June 16.
Vaporizing oil burner, Pot type. J. Miceli, J. Teller, and A. P. Schulz. 2,286,497; June 16.
Vault, Grave. T. F. Kelley. 2,286,813; June 16.

Vegetable cleaner. J. Thomas. 2,286,393; June 16.
Vehicle: *See*—
Self-loading vehicle.
Vehicle suspension mechanism. A. Ronning. 2,286,576; June 16.
Vending machine. C. Gabrielsen. 2,286,905; June 16.
Ventilated cap. P. A. Fischer. 2,286,202; June 16.
Ventilator for airplanes and the like. B. B. Simcox. 2,286,584; June 16.
Vibrator. W. W. Garstang. 2,286,848; June 16.
Vibrator current-converting system. W. W. Garstang. 2,286,846; June 16.
Vibrator current-converting system, Variable frequency. W. W. Garstang. 2,286,847; June 16.
Vibrator frequency changer. W. W. Garstang. 2,286,849; June 16.
Visibility control by means of polarization effects. L. Pollack. 2,286,570; June 16.
Wall box. E. G. Henry. 2,286,544; June 16.
Warning signal. R. O. Helgeby. 2,286,735; June 16.
Washer: *See*—
Print washer.
Washing machine. G. W. Dunham. 2,286,720; June 16.
Washing machine. G. B. Fox. 2,286,203; June 16.
Washing machine. H. C. A. Meyer and E. F. Wesley. 2,286,429; June 16
Waste material of high moisture content, Method and apparatus for drying and incinerating. R. W. Rowen. 2,286,309; June 16.
Watch timing apparatus. T. B. Gibbs. 2,286,907; June 16.
Water column. J. T. McGarry. 2,286,560; June 16.
Water heater. E. W. Bannon. 2,286,329; June 16.
Water heater. A. S. Greth. 2,286,677; June 16.
Wave detector, Frequency modulated. W. van B. Roberts. 2,286,378; June 16.
Weighing apparatus. J. P. Chamberlain. 2,286,598; June 16.
Welding electrode, Swinging multiple spot. A. C. Schanz. 2,286,980; June 16.
Welding machine. V. E. Andrews, A. C. Schanz, and J. W. Sheffer. 2,286,945; June 16.
Well cooker, Deep. A. G. Sherman. 2,286,766; June 16.
Well drilling and completion. W. W. Robinson and S. P. Hart. 2,286,835; June 16.
Well pump. J. Lane. 2,286,365; June 16.
Wheel drag. C. J. Hokanson. 2,286,619; June 16.
Wheel slip control apparatus. C. M. Hines. 2,286,681; June 16.
Wheel suspension for vehicles. J. Ledwinka. 2,286,609; June 16.
Wheels for form grinding, Forming or dressing grinding. S. J. Harley and J. E. Wainwright. 2,286,409; June 16.
Winding machine. E. J. Abbott. 2,286,189; June 16.
Window casement. H. Crescentini. 2,286,899; June 16.
Window construction, Double. J. F. Birt. 2,286,890; June 16.
Wiper. F. W. Christy. 2,286,464; June 16.
Wiper, Windshield. N. E. Wahlberg. 2,286,449; June 16.
Wire and fabricated articles therefrom, Method of and apparatus for drawing. P. W. Dillon. 2,286,956; June 16.
Wire holder. E. M. Meyer. 2,286,496; June 16.
Wire of small or irregular cross-section, Making. W. I. Patnode. 2,286,759; June 16.
Wringer and the like. W. L. Kauffman, II. 2,286,811; June 16.
Yarn conditioning process and composition therefor. J. B. Dickey and J. G. McNally. 2,286,792; June 16.
Yarn conditioning process and composition therefor. J. B. Dickey and J. G. McNally. 2,286,794; June 16.
Yarn conditioning process and compositions therefor. J. B. Dickey. 2,286,793; June 16.
Yarn feeding means for knitting machines, Elastic. A. N. Cloutier. 2,286,955; June 16.
Yarn treating. J. G. McNally and J. B. Dickey. 2,286,824; June 16.
Yarn treating process. J. B. Dickey and J. G. McNally. 2,286,791; June 16.

CLASSIFICATION OF PATENTS

ISSUED JUNE 16, 1942

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number—class, second number—subclass, third number—patent number

1— 32: 2,286,195
2— 3: 2,286,843
12: 2,286,269
37: 2,286,186
42: 2,286,601
68: 2,286,652
73: 2,286,938
131: 2,286,510
174: 2,286,287
195: 2,286,202
237: 2,286,889
312: 2,286,525
4— 26: 2,286,896
213: 2,286,555
242: 2,286,632
5— 14: 2,286,948
8— 48: 2,286,317
70: 2,286,262
142.5: 2,286,791
2,286,824
9— 26: 2,286,769
10— 10: 2,286,698
43: 2,286,956
86: 2,286,336
2,286,668
154: 2,286,477
12— 2: 2,286,362
14: 2,286,464
52: 2,286,261
55: 2,286,467
74: 2,286,214
13— 9: 2,286,732
27: 2,286,481
15— 41: 2,286,270
83: 2,286,245
104.30: Re.22,113
119: 2,286,944
158: 2,286,818
160: 2,286,253
255: 2,286,449
269: 2,286,421
16— 93: 2,286,573
99: 2,286,974
131: 2,286,509
17— 11.1: 2,286,650
18— 12: 2,286,405
2,286,501
13: 2,286,922
15: 2,286,645
34: 2,286,716
35: 2,286,865
48: 2,286,966
54: 2,286,213
2,286,962
19— 134: 2,286,617
135: 2,286,616
20— 35: 2,286,493
39: 2,286,353
53: 2,286,899
21— 121: 2,286,888
22— 77: 2,286,527
79: 2,286,218
93: 2,286,904
23— 75: 2,286,273
77: 2,286,274
87: 2,286,881
172: 2,286,875
190: 2,286,349
196: 2,286,455
202: 2,286,982
24— 11: 2,286,424
73: 2,286,988
156: 2,286,216
157: 2,286,635
202: 2,286,281
205.5: 2,286,373
206: 2,286,850
218: 2,286,438
25— 118: 2,286,531

25— 118: 2,286,612
128: 2,286,564
27— 35: 2,286,813
29— 1.21: 2,286,971
17: 2,286,686
34: 2,286,885
39: 2,286,457
47: 2,286,715
84: 2,286,809
86.3: 2,286,695
86.4: 2,286,313
148.3: 2,286,285
30— 9: 2,286,303
31: 2,286,660
43: 2,286,443
85: 2,286,553
122: 2,286,951
144: 2,286,418
161: 2,286,524
171: 2,286,190
228: 2,286,552
290: 2,286,289
31— 82: 2,286,557
32— 17: 2,286,288
33— 27: 2,286,664
66: 2,286,474
86: 2,286,669
146: 2,286,456
222: 2,286,406
34— 48: 2,286,206
60: 2,286,595
2,286,705
160: 2,286,731
35— 69: 2,286,368
36— 71: 2,286,495
37— 124: 2,286,699
135: 2,286,765
184: 2,286,691
38— 12: 2,286,348
79: 2,286,284
40— 125: 2,286,756
130: 2,286,588
132: 2,286,246
2,287,003
140: 2,286,385
41— 1: 2,286,458
26: 2,286,780
42— 69: 2,286,932
43— 15: 2,286,743
86: 2,286,912
113: 2,286,568
44— 9: 2,286,475
46— 1.5: 2,286,535
161: 2,286,969
49— 5: 2,286,323
17: 2,286,908
53: 2,286,653
69: 2,286,310
79: 2,286,275
84: 2,286,401
50— 16: 2,286,188
51— 9: 2,286,754
48: 2,286,970
98: 2,286,886
131: 2,286,361
170: 2,286,293
184.3: 2,286,360
197: 2,286,208
216: 2,286,319
238: 2,286,620
252: 2,286,596
290: 2,287,000
53— 3: 2,286,990
55— 93: 2,286,619
56— 272: 2,286,872
400.20: 2,286,939
57— 137: 2,286,602
60— 35.6: 2,286,909
41: 2,286,940

60— 52: 2,286,880
54.5: 2,286,452
54.6: 2,286,661
62— 4: 2,286,961
5: 2,286,205
6: 2,286,316
2,286,538
2,286,605
2,286,758
104: 2,286,514
108.5: 2,286,603
64— 9: 2,286,444
21: 2,286,182
2,286,498
66— 13: 2,286,805
14: 2,286,771
2,286,806
82: 2,286,325
96: 2,286,659
113: 2,286,469
128: 2,286,227
132: 2,286,955
135: 2,287,001
172: 2,286,753
67— 7: 2,286,231
29: 2,286,808
2,286,832
68— 18: 2,286,432
58: 2,286,429
263: 2,286,811
70— 456: 2,286,265
72— 118: 2,286,976
73— 51: 2,286,384
2,287,008
52: 2,286,907
259: 2,286,411
299: 2,286,919
74— 1: 2,286,451
44: 2,286,486
69: 2,286,694
78: 2,286,768
81: 2,286,720
103: 2,286,283
230.7: 2,286,276
243: 2,286,733
293: 2,286,485
298: 2,286,223
336: 2,286,549
407: 2,286,547
484: 2,286,773
75— 0.5: 2,286,237
67: 2,286,209
89: 2,286,663
93: 2,286,546
123: 2,286,198
127: 2,286,577
134: 2,286,199
137: 2,286,672
142: 2,286,625
146: 2,286,626
147: 2,286,624
2,286,627
166: 2,286,333
168: 2,286,311
2,286,866
2,286,867
2,286,868
2,286,869
2,286,870
76— 104: 2,286,874
77— 3: 2,286,217
80— 12: 2,286,511
83— 6: 2,286,520
10: 2,286,599
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11: 2,286,545
57: 2,286,728
84— 1.01: 2,286,742
1.14: 2,286,587

85— 32: 2,286,950
36: 2,286,383
88— 1: 2,286,526
1.5: 2,286,810
2.2: 2,286,703
14: 2,286,512
2,286,621
2,286,779
2,286,836
2,286,985
16: 2,286,242
16.4: 2,286,930
18.7: 2,286,200
19.5: 2,286,834
23: 2,286,833
24: 2,286,471
2,286,628
28: 2,286,322
39: 2,286,430
2,286,859
52: 2,286,435
53: 2,286,483
65: 2,286,569
2,286,570
89— 37.5: 2,286,341
90— 9: 2,286,709
11: 2,286,633
12: 2,286,931
17: 2,286,821
24: 2,286,513
91— 12.2: 2,286,819
39: 2,286,257
45: 2,286,571
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65: 2,286,473
92— 39: 2,286,942
40: 2,286,924
41: 2,286,807
93— 36.5: 2,286,692
82: 2,286,529
94— 39: 2,286,761
95— 2: 2,286,662
2,286,747
2,286,837
6: 2,286,656
2,286,714
2,286,838
7: 2,286,215
2,286,701
42: 2,286,977
73: 2,286,883
91: 2,286,229
97: 2,286,351
97— 56: 2,286,305
73: 2,286,359
145: 2,286,312
192: 2,286,592
98— 9: 2,286,584
10: 2,286,252
99— 71: 2,286,334
100: 2,286,644
2,286,998
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172: 2,286,307
182: 2,286,999
193: 2,286,225
100— 19: 2,286,721
71: 2,286,798
101—132.5: 2,286,402
401.2: Re.22,118
102— 45: 2,286,774
2,286,775
103— 2: 2,286,928
5: 2,286,613
38: 2,286,358
41: 2,286,302
44: 2,286,926
173: 2,286,301
219: 2,286,365

104— 68: 2,286,454
105— 182: 2,286,606
224.1: 2,286,563
253: 2,286,949
308: 2,286,958
364: 2,286,967
418: 2,286,954
106— 33: 2,286,963
173: 2,286,220
188: 2,286,314
232: 2,286,244
269: 2,286,414
300: 2,286,910
107— 9: 2,286,983
110— 12: 2,286,309
45: 2,286,268
97: 2,286,688
105.5: 2,286,622
112— 25: 2,286,787
123: 2,286,426
217: 2,286,357
256: 2,286,441
113— 80: 2,286,978
120: 2,286,367
114— 239: 2,286,764
115— 0.5: 2,286,350
28: 2,286,914
116— 129: 2,286,737
117— 51: 2,286,194
60: 2,286,964
72: 2,286,767
83: 2,286,259
136: 2,286,308
137: 2,286,726
2,286,744
119— 105: 2,286,258
120— 38: 2,286,878
41: 2,286,417
69: 2,286,646
121— 38: 2,286,256
46: 2,286,537
46.5: 2,286,282
122— 169: 2,286,677
448: 2,286,863
2,286,864
459: 2,286,207
123— 123: 2,286,294
148: 2,286,233
149: 2,286,236
169: 2,286,515
2,286,918
185: 2,286,419
124— 17: 2,286,700
125— 11: 2,286,409
32: Re.22,122
33: 2,286,521
126— 39: 2,286,766
59.5: 2,286,366
99: 2,286,665
110: 2,286,719
128— 57: 2,286,324
84: 2,286,556
213: 2,286,957
285: 2,286,817
340: 2,286,578
350: 2,286,462
129— 16: 2,286,911
130— 5: 2,286,279
131— 17: 2,286,639
33: 2,287,004
66: 2,286,306
73: 2,286,423
132— 33: 2,286,637
2,286,638
137— 21: 2,286,590
53: 2,286,713
78: 2,286,623
139: 2,286,371
138— 70: 2,286,197

138— 99: 2,286,751
139— 349: 2,286,484
140— 3: 2,286,326
121: 2,286,558
141— 1: 2,286,972
143— 157: 2,286,589
144— 289: 2,286,574
145— 108: 2,286,530
146— 43: 2,286,648
2,286,649
49: 2,286,352
102: 2,286,772
106: 2,286,277
202: 2,286,393
148— 9: 2,286,591
11.5: 2,286,734
13.2: 2,286,745
23: 2,286,298
151— 7: 2,286,667
21: 2,286,895
2,286,981
2,286,982
152— 330: 2,286,507
153— 32: 2,286,893
33: 2,286,255
154— 27: 2,287,006
28: 2,287,007
34: 2,286,968
155— 7: 2,286,784
14: 2,286,946
25: 2,286,372
164: 2,286,468
182: 2,286,606
158— 28: 2,286,853
2,286,855
2,286,856
2,286,857
36.3: 2,286,581
91: 2,286,446
2,286,489
2,286,497
115: 2,286,610
164— 28: 2,286,541
49: Re.22,114
65: 2,286,675
84.5: 2,286,960
166— 14: 2,286,300
21: 2,286,724
167— 24: 2,286,222
34: 2,286,636
171— 95: 2,286,894
97: 2,286,849
119: 2,286,315
2,286,727
209: 2,286,232
2,286,234
2,286,897
225: 2,286,185
252: 2,286,702
2,286,750
2,286,871
326: 2,286,339
172— 36: 2,286,629
2,286,993
239: 2,286,370
2,286,641
2,286,777
2,287,002
274: 2,286,778
173— 259: 2,286,415
328: 2,286,812
2,286,984
174— 15: 2,286,594
103: 2,286,827
116: 2,286,926
151: 2,286,707
165: 2,286,496
174: 2,286,488

175— 183: 2,286,320
363: 2,286,499
366: 2,286,542
2,286,546
2,286,547
367: 2,286,238
376: 2,286,781
176— 34: 2,286,557
122: 2,286,239
2,286,634
124: 2,286,789
2,286,790
2,286,800
177— 311: 2,286,463
329: 2,286,201
352: 2,286,386
2,286,567
178— 5.2: 2,286,730
5.8: 2,286,540
7.3: 2,286,450
7.5: Re.22,115
33: 2,286,248
44: 2,286,396
2,286,406
2,286,428
2,286,436
2,286,437
179— 17: 2,286,431
27: 2,286,445
27.51: 2,286,328
27.54: 2,286,799
100.3: 2,286,729
100.4: 2,286,494
171: 2,286,442
185: 2,286,900
180— 54: 2,286,416
2,286,803
73: 2,286,575
181— 48: 2,286,683
183— 4: 2,286,920
32: 2,286,491
60: 2,286,479
120: 2,286,618
184— 6: 2,286,816
188— 59: 2,286,517
78: 2,286,532
79.5: 2,286,711
93: 2,286,516
100: 2,286,290
2,286,291
187: 2,286,187
189— 23: 2,286,959
64: 2,286,890
82: 2,286,204
84: 2,286,757
192— .01: 2,286,193
6: 2,286,986
38: 2,286,760
43.2: 2,286,917
68: 2,286,502
2,286,862

192— 85: 2,286,585
87: 2,286,873
105: 2,286,461
144: 2,286,943
194— 97: 2,286,614
100: 2,286,321
196— 8: 2,286,453
10: 2,286,183
2,286,184
2,286,504
2,286,543
2,286,814
13: 2,286,503
2,286,823
2,286,852
16: 2,286,369
40: 2,286,343
2,286,603
160: 2,286,250
168: 2,286,579
172: 2,286,580
189: 2,286,666
220: Re.22,121
200— 15: 2,286,662
30: 2,286,235
2,286,511
56: 2,286,735
87: 2,286,375
90: 2,286,848
116: 2,286,965
118: 2,286,534
122: 2,286,929
123: 2,286,518
138: 2,286,266
2,286,459
201— 48: 2,286,717
204— 106: 2,286,240
2,286,241
205— 21: 2,286,759
206— 29: 2,286,533
41: 2,286,389
44: 2,286,647
59: 2,286,500
60: 2,286,876
72: 2,286,785
79: 2,286,704
209— 3: Re.22,117
75: 2,286,296
112: 2,286,607
130: 2,286,987
159: 2,286,979
166: 2,286,374
367: 2,286,770
210— 55: 2,286,397
62: 2,286,420

210— 138: 2,286,434
175: 2,286,332
186: 2,286,400
211— 71: 2,286,831
184: 2,287,005
213— 7: 2,286,590
222: 2,286,973
214— 67: 2,286,925
77: 2,286,278
78: 2,286,723
83: 2,286,305
131: 2,286,947
215— 11: 2,286,797
79: 2,286,906
217— 1: 2,286,267
219— 4: 2,286,945
2,286,980
6: 2,286,210
2,286,211
2,286,212
25: 2,286,487
35: 2,286,304
44: 2,286,340
2,286,470
220— 3.6: 2,286,808
3.94: 2,286,544
10: 2,286,221
221— 60: 2,286,916
95: 2,286,476
2,286,506
118: 2,286,554
223— 1: 2,286,224
88: 2,286,382
98: 2,286,788
228— 20: 2,286,923
40: 2,286,936
229— 7: 2,286,342
30: 2,286,879
32: 2,286,399
45: 2,286,508
66: 2,286,465
230— 130: 2,286,522
134: 2,286,670
206: 2,286,272
233— 20: 2,286,354
2,286,355
234— 41: 2,286,902
235— 59: 2,286,987
61: 2,286,297
236— 1: 2,286,630
38: 2,286,749
44: 2,286,551
64: 2,286,937
68: 2,286,296
2,286,376
70: 2,286,741
237— 2: 2,286,854
12.3: 2,286,941
55: 2,286,519
240— 1: 2,286,783
2.14: 2,286,492

240— 7.7: 2,286,338
10.63: 2,286,685
41: 2,286,934
41.5: 2,286,448
84: 2,286,891
81: 2,286,851
242— 35.5: 2,286,189
87: 2,286,722
123: 2,286,640
128: 2,286,460
244— 63: 2,286,381
73: 2,286,908
79: 2,286,561
248— 20: 2,286,482
50: 2,286,696
71: 2,286,562
201: 2,286,539
214: 2,286,615
361: 2,286,991
250— 11: 2,286,804
2,286,839
20: 2,286,997
2,286,337
2,286,356
27: 2,286,377
2,286,378
27.5: 2,286,478
2,286,755
2,286,802
2,286,829
2,286,996
33: 2,286,439
40: 2,286,410
2,286,412
2,286,413
60: 2,286,748
108: 2,286,877
150: 2,286,280
251— 93: 2,286,689
120: 2,286,536
121: 2,286,841
145: 2,286,299
252— 8.8: 2,286,792
2,286,793
2,286,794
16: 2,286,433
125: 2,286,687
277: 2,286,515
281: 2,286,654
254— 104: 2,286,586
108: 2,286,388
187: 2,286,547
255— 1.4: 2,286,673
1.8: 2,286,191
2,286,192
2,286,782
2,286,835
19: 2,286,583
23: 2,286,593
257— 3: 2,286,604
126: 2,286,398

257— 149: 2,286,271
259— 24: 2,286,746
46: 2,286,844
72: 2,286,440
108: 2,286,913
163: 2,286,840
260— 9: 2,286,643
17: 2,286,605
22: 2,286,466
23: 2,286,260
42: 2,286,228
70: 2,286,752
78: 2,286,251
84: 2,286,264
154: 2,286,391
2,286,392
205: 2,286,795
207: 2,286,304
230: 2,286,822
268: 2,286,300
297: 2,286,915
314: 2,286,679
345: 2,286,884
397.4: 2,286,892
434: 2,286,226
439: 2,286,330
459: 2,286,364
465: 2,286,363
471: 2,286,718
500: 2,286,738
504: 2,286,725
537: 2,286,559
541: 2,286,995
542: 2,286,407
551: 2,286,380
564: 2,286,327
567: 2,286,690
574: 2,286,678
2,286,796
607: 2,286,763
626: 2,286,953
652: 2,286,379
676: 2,286,542
725: 2,286,230
727: 2,286,697
2,286,762
261— 92: 2,286,490
113: 2,286,329
114: 2,286,786
264— 12: 2,286,335
265— 2: 2,286,651
5: 2,286,196
12: 2,286,642
27: 2,286,598
267— 9: 2,286,631
2,286,845
2,286,861
21: 2,286,609
74: 2,286,254
268— 62: 2,286,572
272— 13: 2,286,247

273— 6: 2,286,901
274— 9: 2,286,345
2,286,346
2,286,347
10: 2,286,490
23: 2,286,320
279— 1: 2,286,292
118: 2,286,927
280— 96: 2,286,249
104: 2,286,576
166: 2,286,706
281— 44: 2,286,331
282— 29: 2,286,676
285— 2: 2,286,566
6.5: 2,286,860
95: 2,286,565
123: 2,286,952
177: 2,286,263
286— 5: 2,286,472
7: Re.22,116
28: 2,286,425
287— 86: 2,286,655
290— 38: 2,286,921
2,286,989
291— 2: 2,286,680
292— 171: 2,286,736
226: 2,286,992
315: 2,286,243
336: 2,286,740
340: 2,286,739
359: 2,286,674
294— 14: 2,286,387
86: 2,286,550
104: 2,286,708
109: 2,286,975
296— 35: 2,286,552
97: 2,286,219
2,286,935
297— 1: 2,286,710
299— 70: 2,286,203
78: 2,286,904
84: 2,286,828
107.6: 2,286,658
144: 2,286,933
301— 37: Re.22,119
Re.22,120
302— 53: 2,286,776
303— 6: 2,286,671
21: 2,286,681
47: 2,286,684
308— 72: 2,286,825
185: 2,286,528
201: 2,286,422
309— 12: 2,286,858
311— 107: 2,286,295
312— 94: 2,286,905
127: 2,286,830
140.1: 2,286,548
193: 2,286,427

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

Re.22,118: 101—401.2
2,286,191: 255— 1.8
2,286,192: 255— 1.8
2,286,194: 117— 51
2,286,199: 75— 134
2,286,210: 219— 6
2,286,211: 219— 6
2,286,212: 219— 6
2,286,216: 24— 156
2,286,225: 99— 193
2,286,243: 292— 315

2,286,260: 260— 23
2,286,280: 260— 150
2,286,300: 166— 14
2,286,301: 103— 173
2,286,303: 30— 9
2,286,307: 99— 172
2,286,340: 219— 44
2,286,342: 229— 7
2,286,373: 24—205.5
2,286,389: 206— 41
2,286,390: 260— 268

2,286,398: 257— 126
2,286,406: 33— 222
2,286,418: 30— 144
2,286,419: 123— 185
2,286,432: 68— 18
2,286,433: 252— 16
2,286,449: 15— 255
2,286,465: 229— 66
2,286,478: 250— 27.5
2,286,501: 18— 12
2,286,508: 229— 45

2,286,509: 16— 131
2,286,531: 25— 118
2,286,535: 46— 1
2,286,537: 121— 46
2,286,539: 248— 201
2,286,544: 220— 3.94
2,286,562: 248— 71
2,286,573: 16— 93
2,286,587: 84— 1.14
2,286,613: 103— 5
2,286,615: 248— 214

2,286,643: 260— 9
2,286,655: 287— 86
2,286,658: 299—107.6
2,286,687: 252— 125
2,286,697: 260— 727
2,286,704: 206— 79
2,286,705: 34— 60
2,286,742: 84— 1.01
2,286,746: 250— 24
2,286,748: 250— 60
2,286,758: 62— 6

2,286,759: 205— 21
2,286,762: 260— 727
2,286,774: 102— 45
2,286,775: 102— 45
2,286,854: 237— 2
2,286,876: 206— 60
2,286,908: 220— 3.6
2,286,908: 244— 73
2,286,945: 5— 14
2,286,991: 248— 361

U. S. GOVERNMENT PRINTING OFFICE: 1942

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

American Industries Corporation, San Francisco, Calif. Vinegar. Serial No. 452,595; June 30. Class 46.

American Tar Company, Seattle and Spokane, Wash. Paint, oil, tar, etc. Serial No. 451,998; June 30. Class 16.

American Woolen Company, New York, N. Y. Fibrous materials. Serial No. 452,463; June 30. Class 1.

American Writing Paper Corporation, Holyoke, Mass. Paper. Serial No. 452,682; June 30. Class 37.

Anchor Packing Company, The, Philadelphia, Pa. Machinery packing. Serial No. 442,476; June 30. Class 35.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Lipstick containers. Serial No. 444,519; June 30. Class 2.

Arzone Products Co. (See Pratt, Elbert H.)

Ash Grove Lime & Portland Cement Company, Kansas City, Mo. Powdered cement. Serial No. 451,483; June 30. Class 12.

Auburn Central Manufacturing Corporation, Connersville, Ind. Combined cabinets and sinks. Serial No. 449,538; June 30. Class 13.

Balfour, L. G., Company, Attleboro, Mass. Jewelry. Serial No. 452,683; June 30. Class 28.

Baltimore Lumber Company, Baltimore, Md. Lumber. Serial No. 444,960; June 30. Class 12.

Bardon of Hollywood. (See Slate, Samuel.)

Bella and Company, New York, N. Y. Upholstery and drapery textile piece goods. Serial No. 451,435; June 30. Class 42.

Blackman, S. William, doing business as National Syringe & Glass Products Co., New York, N. Y. Hypodermic syringes. Serial No. 452,900; June 30. Class 44.

Boker, H., & Co., Inc., New York, N. Y. Steel bars, steel rods and steel drill rods. Serial No. 448,425; June 30. Class 14.

Boker, H., & Co., Inc., New York, N. Y. Steel drill rods, and steel tool bits. Serial No. 451,834; June 30. Class 23.

Brody, Benjamin R., New York, N. Y. Women's and misses' wearing apparel. Serial No. 442,622; June 30. Class 39.

Brower Manufacturing Co., Quincy, Ill. Machine that mixes molasses into dairy and hog feeds. Serial No. 452,520; June 30. Class 23.

Brown Company, Berlin, N. H. Paper products. Serial No. 448,898; June 30. Class 37.

Cameo Fabrics, New York, N. Y. Woven textile fabrics. Serial No. 451,289; June 30. Class 42.

Capitol Piece Dye Works Inc., New York and Garnerville, West Haverstraw, N. Y. Piece goods. Serial No. 451,102; June 30. Class 42.

Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Salt-and-pepper shakers, boxes, and lipstick holders. Serial No. 443,111; June 30. Class 2.

Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Pyrophoric cigar lighters, candlesticks, and condenser tubes. Serial No. 443,553; June 30. Class 34.

Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Bronze and brass bushings, copper hammer heads, copper soldering tools, etc. Serial No. 451,134; June 30. Class 23.

Cociana, Inc., Brooklyn, N. Y. Medicated candy cough lozenges. Serial No. 448,359; June 30. Class 6.

Cook Electric Company, Chicago, Ill. Thermostats. Serial No. 443,630; June 30. Class 26.

Corrao, Antonio, doing business as Universal Salad Oil Co., Brooklyn, N. Y. Edible peanut oil. Serial No. 452,638; June 30. Class 46.

Coty, Inc., New York, N. Y. Powder, toilet water, perfume, etc. Serial No. 452,743; June 30. Class 6.

Cranberry Canners, Inc., Hanson, Mass. Canned dehydrated cranberry flakes. Serial No. 452,883; June 30. Class 46.

Dailey, E. J., doing business as E. J. Dailey's Laboratories, San Diego, Calif. Medicine for diabetes. Serial No. 452,766; June 30. Class 6.

Dewey and Almy Chemical Company, Cambridge, Mass. Cartons having an inner impermeable bag or liner. Serial No. 452,260; June 30. Class 2.

D'Orsay Sales Corporation, New York, N. Y. Perfumes, toilet waters, colognes, etc. Serial No. 452,467; June 30. Class 6.

Dupli-Score, Inc., The, St. Paul, Minn. Bowling score sheet tables. Serial No. 452,745; June 30. Class 32.

Eastern Isles Importing Co., Inc., New York, N. Y. Women's blouses, shirtwaists, panties, etc. Serial No. 452,767; June 30. Class 39.

Ellis Coat Co., Inc., Manchester, Conn. Coats. Serial No. 442,257; June 30. Class 39.

Emsco Derrick & Equipment Company, Los Angeles, Calif. Steel derricks, sub-structures for steel derricks, drawworks, etc. Serial No. 449,963; June 30. Class 23.

Excelsior Varnish Works, Inc., The, Cleveland, Ohio. Solvent, detergent preparation. Serial No. 451,743; June 30. Class 4.

E-Z Speedy Co., The. (See Jackson, Harry B.)

Firestone Tire & Rubber Company, The, Akron, Ohio. Playing cards. Serial No. 452,769; June 30. Class 22.

Firestone Tire & Rubber Company, The, Akron, Ohio. Key cases. Serial No. 452,884; June 30. Class 3.

Fisher, Barrett, doing business as Westville Laboratories, New Haven, Conn. Spray for apple and other fruit trees. Serial No. 452,770; June 30. Class 6.

Foley & Company, Chicago, Ill. Medicines, laxatives, and cathartics. Serial No. 452,888; June 30. Class 6.

Foster Machine Co., Westfield, Mass. Yarn winding machinery. Serial No. 449,205; June 30. Class 23.

Franklin Laboratories, Inc., Hackettstown, N. J. Pharmaceutical preparation. Serial No. 452,890; June 30. Class 6.

French Veiling Corp., New York, N. Y. Hair nets. Serial No. 452,668; June 30. Class 39.

Goodman & Suss Clothes Corporation, New York, N. Y. Men's coats, vests, trousers, etc. Serial No. 430,446; June 30. Class 39.

H & H Grocery Co., The, Baltimore, Md. Canned fish. Serial No. 449,685; June 30. Class 46.

Hawtof, Max., Philadelphia, Pa. Men's and boys' pants, suits, topcoats, etc. Serial No. 452,805; June 30. Class 39.

Hygrade Seed Company, Inc., Fredonia, N. Y. Seeds. Serial No. 452,353; June 30. Class 1.

"Inthebag" Laundry Sales Co., New Orleans, La. Laundry bags. Serial No. 452,128; June 30. Class 2.

Irvington Varnish & Insulator Co., Irvington, N. J. Tubing. Serial Nos. 452,398–9; June 30. Class 21.

Jackson, Harry B., doing business as The E-Z Speedy Co., Cincinnati, Ohio. Chemicals, medicines, and pharmaceutical preparations. Serial No. 450,309; June 30. Class 6.

Jantzen Knitting Mills, Portland, Oreg. Sun tan liquid cream. Serial No. 452,777; June 30. Class 6.

Joseph, F. A., doing business as Safex Company, New York, N. Y. Ash trays. Serial No. 451,414; June 30. Class 8.

Kellogg Company, Battle Creek, Mich. Feeds for carnivorous animals. Serial Nos. 449,993–4; June 30. Class 46.

Kent, Elizabeth, Inc., New York, N. Y. Perfume, toilet water, face powder, etc. Serial No. 452,909; June 30. Class 6.

Kobacker Stores, Inc., Tiedtke Division, Toledo, Ohio. Bed mattresses. Serial No. 452,860; June 30. Class 32.

Kugel B., Company, Inc., New York, N. Y. Machine hem-stitched textile motifs. Serial No. 449,425; June 30. Class 40.

Lex Laboratories, Inc., Flushing, N. Y. Medicinal compounds. Serial Nos. 452,830–1; June 30. Class 6.

Loseff, Samuel, doing business as Loseff Laboratory, Chicago, Ill. Ointments. Serial No. 452,271; June 30. Class 6.

Manhattan Shirt Company, The, New York, N. Y. Wearing apparel for women. Serial No. 444,507; June 30. Class 39.

Mari, E. & O., Inc., Long Island City, N. Y. Strings for musical instruments. Serial No. 450,805; June 30. Class 36.

Mari, E. & O., Inc., Long Island City, N. Y. Strings for musical instruments. Serial No. 450,807; June 30. Class 36.

Metallizing Engineering Company, Inc., Long Island City, N. Y. Nickel-chromium and chromium alloy wires. Serial No. 450,182; June 30. Class 14.

Michel & Pfeffer Iron Works, Inc., San Francisco, Calif. Structural parts for steel buildings, steel doors, steel windows, and structural steel. Serial No. 450,939; June 30. Class 12.

Millville Manufacturing Company, The, Philadelphia, Pa. Diaper cloth. Serial No. 452,401; June 30. Class 42.

National Mineral Company, Chicago, Ill. Permanent waving curling agent. Serial No. 452,863; June 30. Class 6.

National Refining Company, The, Cleveland, Ohio. Oil. Serial No. 448,871; June 30. Class 15.

National Syringe & Glass Products Co. (See Blackman, S. William.)

New Method Equipment Company, The, Indianola, Iowa. Farm machinery. Serial No. 445,611; June 30. Class 23.

Olive Coat Co., Inc., New York, N. Y. Ladies' coats. Serial No. 452,328; June 30. Class 39.
O'Neill, Bessie G., doing business as Southwest Chemical Co., Eagle Rock, Calif. Poisoned raisin and barley mixture for the control of gophers, prairie rats, squirrels, and mice. Serial No. 452,783; June 30. Class 6.
Original Textile Corporation, Paterson, N. J. Linen and cotton goods. Serial No. 451,057; June 30. Class 42.
Parfums Schiaparelli, Inc., New York, N. Y. Perfumes, toilet waters, rouges, etc. Serial No. 452,869; June 30. Class 6.
Parke, Davis & Company, Detroit, Mich. Preparation used in prevention and treatment of nutritional disturbances. Serial No. 451,851; June 30. Class 6.
Parke, Davis & Company, Detroit, Mich. Preparations. Serial No. 451,853; June 30. Class 6.
Parke, Davis & Company, Detroit, Mich. Vitamin preparation, iron preparation, etc. Serial No. 451,854; June 30. Class 6.
Parke, Davis & Company, Detroit, Mich. Preparations. Serial No. 451,855; June 30. Class 6.
Parke, Davis & Company, Detroit, Mich. Preparation containing an oral bacterial vaccine. Serial No. 451,856; June 30. Class 6.
Peacock Laboratories, Inc., Philadelphia, Pa. Stamp pads, stamp pad moistener preparation, and stamp pad ink. Serial No. 449,391; June 30. Class 11.
Pearce & Friedman, Inc., New York, N. Y. Leathers. Serial No. 452,619; June 30. Class 1.
Pervo Company, The, Los Angeles, Calif. Paint products. Serial No. 440,521; June 30. Class 16.
Phillips Petroleum Company, Bartlesville, Okla. Lubricants. Serial Nos. 452,313–16; June 30. Class 15.
Picardy Mills, Inc., Brooklyn, N. Y. Cotton piece goods. Serial No. 451,688; June 30. Class 42.
Pratt, Elbert H., doing business as Arzone Products Co., Chicago, Ill. Mothproofing preparations. Serial No. 452,292; June 30. Class 6.
Pure Oil Company, The, Chicago, Ill. Hydrocarbon polymers and mineral oil products. Serial No. 452,754; June 30. Class 6.
Quality Products, Inc., La Feria, Tex. Grapefruit juice. Serial No. 450,632; June 30. Class 46.
Queens Vitamin Products, Inc., Flushing, New York, N. Y. Medicinal compounds. Serial No. 452,837; June 30. Class 6.
RFD Farm Products, Glenview, Ill. Spread for bread, crackers, cookies and the like. Serial No. 451,322; June 30. Class 46.
Rahr Malting Co., Manitowoc, Wis. Malt. Serial No. 452,172; June 30. Class 46.
Rayonier Incorporated, San Francisco, Calif. Wood pulp. Serial No. 452,622; June 30. Class 1.
Republic Pictures Corporation, New York, N. Y. Motion pictures and motion picture films. Serial No. 452,404; June 30. Class 26.
Rich, John D., doing business as Saunemin Produce Company, Saunemin and Chicago, Ill. Canned food products. Serial No. 448,372; June 30. Class 46.
Robins, A. K., & Co., Inc., Baltimore, Md. Canning machinery. Serial No. 449,702; June 30. Class 23.
Safex Company. (See Joseph, F. A.)
Samette Manufacturing Company, Allentown, Pa. Ladies' underwear. Serial No. 453,938; June 30. Class 39.
Sangatuck-Douglas Arts & Crafts Company, Detroit, Mich. Chairs, desks, tables, etc. Serial No. 452,135; June 30. Class 32.
Saunemin Produce Company. (See Rich, John D.)
Scott & Bowne, Bloomfield, N. J. Skin liniment. Serial No. 450,552; June 30. Class 6.
Scott & Bowne, Bloomfield, N. J. Cough remedy. Serial No. 450,553; June 30. Class 6.
Scott & Bowne, Bloomfield, N. J. Skin ointment. Serial No. 450,554; June 30. Class 6.
Sharp & Dohme, Incorporated, Philadelphia, Pa. Pharmaceutical preparations. Serial No. 408,512; June 30. Class 6.
Sheaffer, W. A., Pen Company, Fort Madison, Iowa. Fountain pens and pencils. Serial No. 452,588; June 30. Class 37.
Sisk, Albert W., & Son, Preston, Md. Canned tomatoes. Serial No. 452,657; June 30. Class 46.
Slate, Samuel, doing business as Bardon of Hollywood, Los Angeles, Calif. Men's and women's outer shirts, slacks, riding breeches, etc. Serial No. 452,364; June 30. Class 39.
Sonneborn, L., Sons, Inc., New York, N. Y. Chemical product. Serial No. 450,772; June 30. Class 6.
Southwest Chemical Co. (See O'Neill, Bessie G.)
Squirt Company, The, Beverly Hills, Calif. Grapefruit drink and bases and syrups and extracts for making the same. Serial No. 452,541; June 30. Class 45.
Stearns & Foster Company, Lockland, Ohio. Cotton wadding. Serial No. 451,351; June 30. Class 1.
Stearns, Frederick, & Company, Detroit, Mich. Enzyme preparation. Serial No. 452,791; June 30. Class 6.
Stearns, Frederick, & Company, Detroit, Mich. Nutritive solution. Serial No. 452,792; June 30. Class 6.
Truscon Laboratories, Inc., Detroit, Mich. Synthetic resinous coating. Serial No. 450,266; June 30. Class 16.
Uddo & Taormina Company, Brooklyn, N. Y. Canned olive oil. Serial No. 452,626; June 30. Class 46.
Universal Salad Oil Co. (See Carrao, Antonio.)
Vilter Manufacturing Company, The, Milwaukee, Wis. Refrigerating machines, air-coolers for refrigeration equipment, ice-making and ice-briquetting machines, etc. Serial No. 449,087; June 30. Class 31.
Westville Laboratories. (See Fisher, Barrett.)
White Machine Works, Fort Wayne, Ind. Valves, pump strainers, well screens, etc. Serial No. 450,774; June 30. Class 13.
Windsor-Lloyd Products, Inc., Wilmington, Del. Carburetors and fuel pumps. Serial No. 452,662; June 30. Class 23.
Winkel, Mabel, & Co., New York, N. Y. Boots, shoes, and slippers. Serial No. 444,303; June 30. Class 39.
Wolverine Fabricating & Mfg. Co., Inc., Detroit, Mich. Sheet packing and gasket material. Serial No. 452,231; June 30. Class 35.
Wullschleger & Co., New York, N. Y. Silk, satin, rayon, and cotton fabrics. Serial No. 452,383; June 30. Class 42.
Zenith Radio Corporation, Chicago, Ill. Radio and television receiving sets and parts thereof. Serial No. 448,352; June 30. Class 21.

LIST OF REGISTRANTS OF TRADE-MARKS

Addressograph-Multigraph Corporation, Cleveland, Ohio. Materials and solutions for treating printing plates to prepare and preserve reproducible images thereon 396,232; June 30; Serial No. 451,832; published Apr. 14, 1942. Class 6.
Alba Pharmaceutical Company, Inc., New York, N. Y. Adsorbant, antacid, astringent, etc. preparation, analgesics, anesthetics, etc. 396,264; June 30. Class 6.
Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Power transmission machinery. 396,176; June 30; Serial No. 450,581; published Apr. 7, 1942. Class 23.
Amalgamated Leather Companies, Inc., Wilmington, Del. Glazed kid leather. 396,252; June 30. Class 1.
American Fluorescent Lighting Corporation, New York, N. Y. Flourescent lamps, electrical lighting fixtures, electrical appliances. 396,090; June 30; Serial No. 443,621; published Apr. 14, 1942. Class 21.
American Oil Company, Baltimore, Md. Anti-freeze, brake fluid, insect spray. 396,202; June 30; Serial No. 450,986; published Apr. 14, 1942. Class 6.
American Oil Company, Baltimore, Md. Anti-freeze, brake fluid, insect spray. 396,203; June 30; Serial No. 450,988; published Apr. 14, 1942. Class 6.
American Oil Company, Baltimore, Md. Gasoline, lubricating oils, and greases. 396,266–7; June 30. Class 15.
American Viscose Corporation, Wilmington, Del. Yarns threads and yarn and thread filaments. 396,194; June 30; Serial No. 450,916; published Apr. 7, 1942 Class 43.
Andersen's, Buellton, Calif. Mince meat, spices, split peas, etc. 396,241; June 30. Class 46.
Andover Kent Inc., Middletown, Conn. Ammunition. 396,135; June 30; Serial No. 449,510; published Apr. 14, 1942. Class 9.
Arkwright Finishing Company, Providence, R. I. Tracing and pencil cloth. 396,191; June 30; Serial No. 450,892; published Apr. 21, 1942. Class 37.
Armand Company, The, Des Moines, Iowa. Package containing miniature samples of various shades of face powder. 396,113; June 30; Serial No. 447,718; published Apr. 21, 1942. Class 6.
Associated Lerner Shops of America, Inc., New York, N. Y. Ladies' and misses' hats. 396,163; June 30; Serial No. 450,388; published Apr. 14, 1942. Class 39.
Atlas Supply Company, Newark, N. J. Portable hand operated fire extinguishers. 396,154; June 30; Serial No. 450,154; published Apr. 21, 1942. Class 23.
Autogas Company, Chicago, Ill. Gas burners, gas burning humidifiers, garbage incinerators and water heaters. 396,109; June 30; Serial No. 446,788; published Oct. 21, 1941. Class 34.
Baby Products. (See Feurer, Emil John.)
Barbizon Corporation, The, New York, N. Y. Piece goods. 396,151; June 30; Serial No. 450,086; published Apr. 21, 1942. Class 42.
Barry, Lawrence, Ltd., New York, N. Y. Razor blades. 396,243; June 30. Class 23.
Beauty Counselors, Inc., Grosse Pointe, Mich. Preparation adapted for use on the legs to create the effect of silk stockings. 396,223; June 30; Serial No. 451,159; published Apr. 21, 1942. Class 6.
Beaver Shirt Manufacturing Co., Inc., New York, N. Y. Men's dress and sport shirts. 396,229; June 30. Serial No. 451,282; published Apr. 21, 1942. Class 39.

Benjamin Electric Mfg. Company, Des Plaines, Ill. Electric lighting fixtures. 396,083–6; June 30; Serial Nos. 441,041–4; published Apr. 21, 1942. Class 21.
Betmar Hats Inc., New York, N. Y. Ladies' and children's hats. 396,228; June 30; Serial No. 451,255; published Apr. 14, 1942. Class 39.
Bio-Dynamic Farming and Gardening Association, Inc., Phoenixville, Pa. Manure, compost, and plant preparations designed to increase the fertilizing properties of compost and manure. 396,106; June 30; Serial No. 446,351; published Apr. 14, 1942. Class 10.
Blea, Jacobo B., doing business as California Pharmacal Company, Los Angeles, Calif. Insecticides. 396,105; June 30; Serial No. 445,975; published Mar. 31, 1942. Class 6.
Brater, John K., and Co. Inc., New York, N. Y. Medicinal cigarettes, 396,217; June 30; Serial No. 451,132; published Apr. 14, 1942. Class 6.
Bulova Watch Company, Inc., New York, N. Y. Watches. 396,208; June 30; Serial No. 451,072; published Apr. 21, 1942. Class 27.
Cabin Crafts, Dalton, Ga. Bedspreads and rugs. 396,158; June 30; Serial No. 450,222; published Apr. 21, 1942. Class 42.
California Pharmacal Company. (See Blea, Jacobo Bonifacio.)
Callite Tungsten Corporation, Union City, N. J. Electric contacts, electric tube and lamp welds, etc. 396,103; June 30; Serial No. 445,714; published Apr. 7, 1942. Class 21.
Carson Pirie Scott & Company, Chicago, Ill. Cosmetics. 396,064; June 30; Serial No. 434,317; published Apr. 14, 1942. Class 6.
Carthage Mills Incorporated, Cincinnati, Ohio. Floor covering. 396,164; June 30; Serial No. 450,390; published Apr. 14, 1942. Class 20.
Caton Spring Water Co. (See Seven-Up Bottling Co. of Baltimore, Inc., The.)
Ceballos, Juan M., doing business as Three Winds Dairy, Westbury, Long Island, N. Y. Goat's milk. 396,136; June 30; Serial No. 449,638; published Apr. 21, 1942. Class 46.
Central Chemical Corporation of Maryland, Hagerstown, Md. Chemicals and insecticides for spraying and dusting purposes. 396,215; June 30; Serial No. 451,103; published Apr. 21, 1942. Class 6.
Century Radio Co. Inc., Philadelphia, Pa. Electrical signal receiving units. 396,081; June 30; Serial No. 440,800; published May 20, 1941. Class 21.
Champion Mfg. Co., Charlotte, N. C. Padding cement. 396,162; June 30; Serial No. 450,354; published Apr. 21, 1942. Class 5.
Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Combs; and toilet sets. 396,089; June 30; Serial No. 443,114; published Apr. 14, 1942. Class 40.
Christy Cosmetics, Inc., New York, N. Y. Lipsticks. 396,230; June 30; Serial No. 451,294; published Apr. 14, 1942. Class 6.
Cincinnati Milling Machine Co., The, Cincinnati, Ohio. Machine tools. 396,107; June 30; Serial No. 446,517; published Apr. 21, 1942. Class 23.
Circulators & Devices Mfg. Corp., New York, N. Y. Electrical air circulatory fans. 396,130; June 30; Serial No. 449,168; published Apr. 21, 1942. Class 21.
Cluett, Peabody & Co., Inc., Troy, N. Y. Negligee dress shirts. 396,204; June 30; Serial No. 451,002; published Apr. 21, 1942. Class 39.
Cohen, Joseph H., & Sons, Vanity Clothes, Inc., New York N. Y. Men's clothing. 396,195; June 30; Serial No. 450,917; published Apr. 21, 1942. Class 39.
Coleman, Vance J., doing business as Rapids Machinery Company, Marion, Iowa. Conveyor and mixer for stock feeds, flours, and the like. 396,255; June 30. Class 23.
Color Bath Co. (See Heimlich, Paul.)
Commercial Solvents Corporation, New York, N. Y. Radiator preparations. 396,102; June 30; Serial No. 445,685; published Apr. 21, 1942. Class 6.
Commercial Solvents Corporation, New York, N. Y. Radiator preparations. 396,257–8; June 30. Class 6.
Compo Shoe Machinery Corporation, Boston, Mass. Shoe machinery. 396,268; June 30. Class 23.
Conway, Richard F., Chicago, Ill. Punch boards. 396,062; June 30; Serial No. 399,748; published Mar 4, 1941. Class 22.
Cook Electric Company, Chicago, Ill. Apparatus in telephone systems. 396,110; June 30; Serial No. 447,042; published Apr. 14, 1942. Class 21.
Cook Laboratories, Inc., New York, N. Y. Local anesthetics and local anesthetics with vasoconstrictors. 396,265; June 30. Class 6.
Courtaulds, Limited, London, England. Yarns of cellulose. 396,181; June 30; Serial No. 450,712; published Apr. 14, 1942. Class 43.
Courtaulds, Limited, London, England. Rayon yarns. 396,182; June 30; Serial No. 450,716; published Apr 14, 1942. Class 43.
Courtaulds, Limited, London, England. Rayon yarns. 396,183; June 30; Serial No. 450,718; published Apr. 14, 1942. Class 43.
Courtaulds, Limited, London, England. Yarns of cellulose. 396,184; June 30; Serial No. 450,720; published Apr. 14, 1942. Class 43.
Courtaulds, Limited, London, England. Yarns of cellulose. 396,185; June 30; Serial No. 450,722; published Apr. 14, 1942. Class 43.
Courtaulds, Limited, London, England. Yarns of cellulose. 396,186; June 30; Serial No. 450,724; published Apr. 14, 1942. Class 43.
Crocker, Lavinia P., doing business as Pingo Company, Boston, Mass. Preparation for application to stoves. 396,261; June 30. Class 6.
Crockery City Ice & Products Company, The, East Liverpool, Ohio. Beer. 396,248; June 30. Class 48.
Cunningham, Thomas Sberriff, Stewarton, Scotland. Stockings and socks. 396,111; June 30; Serial No. 447,695; published Apr. 14, 1942. Class 39.
Daisy Manufacturing Company, Plymouth, Mich. Air rifles. 396,205; June 30; Serial No. 451,006; published Apr. 14, 1942. Class 9.
Decker, Alfred, & Cohn, Inc., Chicago, Ill. Men's clothing. 396,721; June 30; Serial No. 448,501; published Apr. 14, 1942. Class 39.
Delaware Machinery Corporation, New York, N. Y. Metal working machinery. 396,100; June 30; Serial No. 445,490; published Apr. 7, 1942. Class 23.
De Lisle, Harold L., doing business as Engineering Sales Company, Sheboygan, Wis. Rulers, straightedges, T-squares, etc. 396,099; June 30; Serial No. 445,319; published Apr. 21, 1942. Class 26.
Dennis, Martin, Company, The, Newark, N. J. Chemical preparation. 396,227; June 30; Serial No. 451,226; published Apr. 21, 1942. Class 6.
Diebold Safe & Lock Company, Canton, Ohio. Composite guides for card filing equipment. 396,246; June 30. Class 37.
Dominion Minerals, Incorporated, Washington, D. C. Aplite. 396,209; June 30; Serial No. 451,075; published Apr. 21, 1942. Class 1.
Drug Guild, Inc., New York, N. Y. Preparation for the treatment of athlete's foot. 396,139; June 30; Serial No. 449,733; published Apr. 21, 1942. Class 6.
Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Electric tacking irons and electric irons. 396,165–6; June 30; Serial Nos. 450,415–16; published Apr. 21, 1942. Class 21.
Eaton Products. (See Jacobs, Melvin H.)
Economy Auto Stores, Inc., Atlanta, Ga. Electric generators, spark plugs, radio receiving sets, etc. 396,142; June 30; Serial No. 449,900; published Apr. 14, 1942. Class 21.
E-Cut Knitting Mills, Royersford, Pa. Infants' and children's knitted underwear. 396,207; June 30; Serial No. 451,048; published Apr. 21, 1942. Class 39.
Elbe, Arnold M., Co. Inc., New York, N. Y. Ladies' underwear. 396,198; June 30; Serial No. 450,960; published Apr. 14, 1942. Class 39.
Electric & Automotive Products Co. (See Rodriguez, Rafael Angel.)
Electrographic Corporation, New York, N. Y. Machinery for securing thin metallic printing plates to rigid curved backing members. 396,131; June 30; Serial No. 449,204; published Apr. 14, 1942. Class 23.
Engineering Sales Company. (See De Lisle, Harold L.)
Enro Shirt Company, Inc., The, Louisville, Ky. Men's pajamas. 396,156; June 30; Serial No. 450,178; published Apr. 21, 1942. Class 39.
Farmers Engineering & Manufacturing Co., Wilkinsburg, Pa. Electrical fence charging apparatus and equipment. 396,160; June 30; Serial No. 450,259; published Apr. 21, 1942. Class 21.
Ferro Enamel Corporation, Cleveland, Ohio. Fire brick, refractory tile, refractory materials used in furnace construction. 396,123; June 30; Serial No. 448,605; published Jan. 13, 1942. Class 12.
Feurer, Emil John, doing business as Baby Products, Chicago, Ill. Ointment for baby use. 396,269; June 30. Class 6.
Fisher Scientific Company, Pittsburgh, Pa. Electrical heating device with open coil heating element and rheostat control. 396,172; June 30; Serial No. 450,478; published Apr. 21, 1942. Class 21.
Foster Canning Company of Ohio, Napoleon, Ohio. Canned dog food. 396,190; June 30; Serial No. 450,851; published Apr. 21, 1942. Class 46.
Fostoria Pressed Steel Corporation, The, Fostoria, Ohio. Electrically-generated-ray handling apparatus and parts thereof. 396,256; June 30. Class 21.
Freedom Oil Company, Freedom, Pa. Lubricating oils and greases. 396,127; June 30; Serial No. 449,045; published Apr. 21, 1942. Class 15.
Frosst, Charles E., & Co., Montreal, Quebec, Canada. Medicaments and pharmaceutical medicaments. 396,263; June 30. Class 6.
Fruit Dispatch Company, New York, N. Y. Bananas. 396,192; June 30; Serial No. 450,896; published Apr. 21, 1942. Class 46.
G., H. & E. Freydberg, Inc., New York, N. Y. Children's combination garments. 396,224; June 30; Serial No. 451,168; published Apr. 21, 1942. Class 39.
Gemlold Corporation, Elmhurst, Long Island, N. Y. Chemical preparations. 396,071; June 30; Serial No. 439,017; published Apr. 14, 1942. Class 6.
General Electric X-Ray Corporation, Chicago, Ill. Chemicals for developing and fixing X-rays. 396,239; June 30. Class 6.

General Electric X-ray Corporation, Chicago, Ill. Chemicals for fixing X-rays. 396,244; June 30. Class 6.
General Electric X-ray Corporation, Chicago, Ill. Chemicals for developing X-rays. 396,245; June 30. Class 6.
Gilbert, A. C., Company, The, New Haven, Conn. Electrically operated or electrically controlled apparatus and parts thereof for installation as a unit in hollow toy articles. 396,096; June 30; Serial No. 444,760; published Apr. 7, 1942. Class 21.
Goldberg & Seltzer, Inc., New York, N. Y. Handbags and pocketbooks. 396,271; June 30. Class 3.
Goldenberg, Isidore, New York, N. Y. Men's neckties. 396,116; June 30; Serial No. 448,045; published Apr. 21, 1942. Class 39.
Great Atlantic & Pacific Tea Company, The, New York, N. Y. Breakfast cereal. 396,218; June 30; Serial No. 451,138; published Apr. 21, 1942. Class 46.
Greensboro Cotton Twine Company. (See Yancey, Clement L., Jr.)
Gulf Oil Corporation, Pittsburgh, Pa. Lubricants. 396,065; June 30; Serial No. 435,499; published Apr. 21, 1942. Class 15.
Hanes Hosiery Mills Co., Winston-Salem, N. C., and New York, assignor to Hanes Hosiery Incorporated, New York, N. Y. Hosiery. 396,128; June 30; Serial No. 449,135; published Apr. 21, 1942. Class 39.
Hard & Rand, Inc., New York, N. Y. Coffee. 396,240; June 30. Class 46.
Harris-Seybold-Potter Company, Cleveland, Ohio. Paper cutters, paper trimmers, paper choppers, etc. 396,199; June 30; Serial No. 450,964; published Apr. 21, 1942. Class 23.
Harrison Mills, Inc., East Newark, N. J. Piece goods of cotton, wool, rayon, silk, and combinations thereof. 396,104; June 30; Serial No. 445,938; published Apr. 21, 1942. Class 42.
Hat Corporation of America, Norwalk, Conn. Hats for women. 396,210; June 30; Serial No. 451,081; published Apr. 14, 1942. Class 39.
Heim, Max B., New York, N. Y. Plate glass substitute. 396,187; June 30; Serial No. 450,767; published Apr. 21, 1942. Class 50.
Heimlich, Paul, doing business as Color Bath Co., New York, N. Y. Hair dyes and shampoo tints. 396,259; June 30. Class 6.
Holly-Cater Company, Cleveland, Ohio. Confection. 396,170; June 30; Serial No. 450,449; published Apr. 21, 1942. Class 46.
Hut Neckwear Co. Inc., New York, N. Y. Neckties and cravats. 396,124; June 30; Serial No. 448,614; published Jan. 20, 1942. Class 39.
Ideal Novelty & Toy Co., Long Island City, N. Y. Dolls. 396,226; June 30; Serial No. 451,207; published Apr. 21, 1942. Class 22.
Irresistible, Inc., Jersey City, N. J. Perfume. 396,087; June 30; Serial No. 441,541; published Apr. 21, 1942. Class 6.
Jacobs, Melvin H., doing business as Eaton Products, Chicago, Ill. Cologne. 396,250; June 30. Class 6.
James River Hydrate & Supply Company, Indian Rock and Buchanan, Va. Hydraulic and water-proofed masonry mortar, and composition or admixture for incorporation with concrete mix or the like. 396,070; June 30; Serial No. 438,825; published Apr. 21, 1942. Class 12.
Jeuda Textile Corporation, New York, N. Y. Ladies' housedresses and aprons. 396,189; June 30; Serial No. 450,800; published Apr. 21, 1942. Class 39.
Johns-Manville Corporation, New York, N. Y. Asbestos-cement shingles. 396,068; June 30; Serial No. 437,656; published Apr. 21, 1942. Class 12.
Johnson Chemical Co. (See Uddo, Joseph.)
K. & W. Glass Works, Inc., West New York, N. J. Christmas tree ornaments. 396,242; June 30. Class 50.
Kennedy, David E., Inc., Brooklyn, N. Y. Floor tiles. 396,155; June 30; Serial No. 450,163; published Apr. 21, 1942. Class 12.
Klein Brothers Textile Corp., New York, N. Y. Textile fabrics in the piece. 396,174; June 30; Serial No. 450,509; published Apr. 21, 1942. Class 42.
Lakeside Laboratories, Inc., The, Milwaukee, Wis. Drugs and pharmaceuticals. 396,235; June 30; Serial No. 451,552; published Apr. 21, 1942. Class 6.
Leacock & Co., Inc., New York, N. Y. Rayon and cotton fabrics in the piece, table cloths, napkins, etc. 396,253; June 30. Class 42.
Leadway Stores Corporation, also doing business as Leadway Foods, Chicago, Ill. Toilet tissue. 396,200; June 30; Serial No. 450,970; published Apr. 21, 1942. Class 37.
Lehn & Fink Products Corporation, Bloomfield, N. J. Lipstick, rouge, nail polish, etc. 396,201; June 30; Serial No. 450,971; published Apr. 21, 1942. Class 6.
Le Roi Company, West Allis, Wis. Automatic regulators. 396,112; June 30; Serial No. 447,703; published Apr. 21, 1942. Class 23.
Line Material Company, Milwaukee, Wis. Electrical transformers. 396,251; June 30. Class 21.
Lipton, Thomas J., Inc., Hoboken, N. J. Tea. 396,143–6; June 30; Serial Nos. 449,907–10; published Apr. 21, 1942. Class 46.
Lockport Cotton Batting Co., Lockport, N. Y. Cotton batting or cotton batts. 396,211–12; June 30; Serial Nos. 451,083–4; published Apr. 21, 1942. Class 1.
Lucas Kil-Tone Co., Philadelphia, Pa. Insecticides and fungicides. 396,247; June 30. Class 6.
Lyndon Products Corporation, Norwalk, Conn. Lipstick, face lotions, cream, etc. 396,254; June 30. Class 6.
Maher, Charles E., doing business as Style Cemar Co., Chicago, Ill. Dye removing materials, dyeing materials, and fabric finishing materials. 396,219; June 30; Serial No. 451,142; published Apr. 21, 1942. Class 6.
Marshall Field & Company, Chicago, Ill. Creams, skin fresheners, mouth washes, etc. 396,171; June 30; Serial No. 450,476; published Apr. 14, 1942. Class 6.
Martin Fireproofing Corporation, Buffalo, N. Y. Tongue and groove aerated concrete plank. 376,080; June 30; Serial No. 440,785; published Apr. 8, 1941. Class 12.
Mayer, Oscar & Co., Chicago, Ill. Meat products. 396,097; June 30; Serial No. 445,238; published Apr. 21, 1942. Class 46.
Mayflower Dress Co., Inc., New York, N. Y. Ladies' and misses' dresses, blouses, suits, etc. 396,220; June 30; Serial No. 451,144; published Apr. 21, 1942. Class 39.
McCurrach Organization Incorporated, New York, N. Y. Men's neckties and mufflers. 396,122; June 30; Serial No. 448,514; published Jan. 20, 1942. Class 39.
Metal Specialties Manufacturing Co., Chicago, Ill. Stapling machines, staple removers, paper punches, etc. 396,114; June 30; Serial No. 447,750; published Apr. 21, 1942. Class 23.
Metropolitan Ice Cream Co., St. Louis, Mo. Ice cream, ices and similar frozen confections. 396,237; June 30. Class 46.
Micro Switch Corporation, Freeport, Ill. Electric switches, actuator mechanisms, housings, etc. 396,075; June 30; Serial No. 439,353; published Apr. 7, 1942. Class 21.
Micro Switch Corporation, Freeport, Ill. Electric switches. 396,076; June 30; Serial No. 439,355; published Apr. 7, 1942. Class 21.
Moretti, Clarence M., doing business as Selvo Co., San Francisco, Calif. Selvage strips to be used in crocheting, knitting, punchwork, and weaving. 396,157; June 30; Serial No. 450,185; published Apr. 21, 1942. Class 43.
Munford, Lolita D., Richmond, Va. Dolls and other toys. 396,117; June 30; Serial No. 448,162; published Apr. 21, 1942. Class 22.
Nall, Forrest, Kansas City, Mo. Bowling alleys. 396,148; June 30; Serial No. 449,968; published Apr. 21, 1942. Class 22.
National Screen Service Corporation, New York, N. Y. Electric signs. 396,118; June 30; Serial No. 448,202; published Apr. 14, 1942. Class 21.
National Starch Products Inc., New York, N. Y. Starches. 396,249; June 30. Class 6.
Nelson, Arthur R., doing business as Nelson Manufacturing Co., Bay City, Mich. Trailer bogies. 396,260; June 30. Class 19.
Nyal Company, Detroit, Mich. Vitamin preparation. 396,225; June 30; Serial No. 451,178; published Apr. 21, 1942. Class 6.
Oberman & Company, Jefferson City, Mo. Outer shirts and jackets. 396,061; June 30; Serial No. 388,364; published Apr. 14, 1942. Class 39.
Ohio-Apex, Inc., Nitro, W. Va. Methoxy ethyl oleate. 396,095; June 30; Serial No. 444,604; published Nov. 25, 1941. Class 6.
Old Ben Coal Corporation, Chicago, Ill. Coal. 396,213; June 30; Serial No. 451,087; published Apr. 21, 1942. Class 1.
Old Colony Paint & Chemical Co., Los Angeles, Calif. Paints. 396,119; June 30; Serial No. 448,298; published Feb. 3, 1942. Class 16.
Ovazza, Vittorio. (See Treves, Angiolo, Dario Treves, and Vittorio Ovazzo.)
Pantasote Leather Company, The, Passaic, N. J. Artificial leather. 396,196; June 30; Serial No. 450,918; published Apr. 21, 1942. Class 50.
Parfums Charbert, Inc., New York, N. Y. Cosmetic mittens. 396,167; June 30; Serial No. 450,424; published Apr. 21, 1942. Class 6.
Parfums Charbert, Inc., New York, N. Y. Perfumes, toilet waters, sachets, etc. 396,221; June 30; Serial No. 451,146; published Apr. 14, 1942. Class 6.
Parfums Massenet, Inc., New York, N. Y. Perfumes. 396,132; June 30; Serial No. 449,212; published Apr. 21, 1942. Class 6.
Parks and Woolson Machine Co., Springfield, Vt. Cloth finishing machines acting to sponge the cloth. 396,152; June 30; Serial No. 450,113; published Apr. 21, 1942. Class 23.
Peacock Laboratories, Inc., Philadelphia, Pa. Liquid cleaner for removing stains resulting from the action of silvering solutions from the hands, etc., of those engaged in making mirrors. 396,133; June 30; Serial No. 449,388; published Apr. 14, 1942. Class 4.
Peacock Laboratories, Inc., Philadelphia, Pa. Tartaric acid, epsom salts, thiourea, etc. 396,134; June 30; Serial No. 449,390; published Apr. 14, 1942. Class 6.
Peerless Carbon Black Company, The, Pittsburgh, Pa. Black carbon pigment. 396,077; June 30; Serial No. 439,726; published Apr. 22, 1941. Class 6.

Pennsylvania Saw Corporation, York, Pa. Saws of all kinds. 396,270; June 30. Class 23.
Perm-Aseptic Co. (See Rampel, Leo J.)
Physicians Supply Company. (See Stotlar, L. E.)
Pierce, S. S., Co., Boston, Mass. Perfumes, toilet water, cologne, etc. 396,069; June 30; Serial No. 438,183; published Jan. 7, 1941. Class 6.
Pingo Company. (See Crocker, Lavinia P.)
Pittsburgh Plate Glass Company, Pittsburgh, Pa. Alkaline earth metal silicate. 396,079; June 30; Serial No. 440,210; published Apr. 14, 1942. Class 6.
Plymouth Dye Works, Inc., Paterson, N. J. Piece goods in rayon or silk or combination thereof. 396,137; June 30; Serial No. 449,699; published Apr. 21, 1942. Class 42.
Potomac Engineering Service Company, Chicago, Ill. Physical training structures. 396,153; June 30; Serial No. 450,146; published Apr. 21, 1942. Class 12.
Prom Dance Frocks, Incorporated, New York, N. Y. Dresses and wraps. 396,067; June 30; Serial No. 436,439; published Dec. 3, 1940. Class 39.
Rampel, Leo J., doing business as Perm-Aseptic Co., New York, N. Y. Preparation for use on textiles, plastic materials, etc. 396,188; June 30; Serial No. 450,771; published Apr. 21, 1942. Class 6.
Rand Rubber Company, Brooklyn, N. Y. Dress shields. 396,161; June 30; Serial No. 450,344; published Apr. 14, 1942. Class 40.
Rapids Machinery Company. (See Coleman, Vance J.)
Reichard-Coulston, Inc., New York, N. Y. Oxides of iron having a general use in the industrial arts. 396,206; June 30; Serial No. 451,019; published Apr. 21, 1942. Class 6.
Remington Rand Inc., Buffalo, N. Y. Typewriters. 396,234; June 30; Serial No. 451,541; published Apr. 21, 1942. Class 23.
Republic Flow Meters Company, Chicago, Ill. Fluid flowmeters, chart type recorders, recorders, etc. 396,098; June 30; Serial No. 445,299; published Oct. 14, 1941. Class 26.
Revlon Products Corporation, New York, N. Y. Enamel adapted for coating finger nails and lipsticks. 396,066; June 30; Serial No. 436,143; published Apr. 21, 1942. Class 6.
Revlon Products Corporation, New York, N. Y. Enamel adapted for coating finger nails, and lipsticks. 396,233; June 30; Serial No. 451,503; published Apr. 21, 1942. Class 6.
Rodriguez, Rafael A., doing business as Electric & Automotive Products Co., New York, N. Y. Electric lamps. 396,129; June 30; Serial No. 449,156; published Apr. 14, 1942. Class 21.
Rollins Hosiery Mills, Inc., Des Moines, Iowa. Ladies' cotton under-garments. 396,138; June 30; Serial No. 449,703; published Apr. 14, 1942. Class 39.
Safeway Stores, Inc., of Nevada, Oakland, Calif. Beverages, Syrups and extracts for making. 396,216; June 30; Serial No. 451,120; published Apr. 21, 1942. Class 45.
Sage, Peggy, Inc., Stamford, Conn. Liquid nail polishes. 396,179; June 30; Serial No. 450,695; published Apr. 14, 1942. Class 6.
Sanchez Romate Hermanos, S. A., Jerez de la Frontera, Spain. Wines. 396,072; June 30; Serial No. 439,075; published Mar. 31, 1942. Class 47.
Sanchez Romate Hermanos, S. A., Jerez de la Frontera, Spain. Wines. 396,073–4; June 30; Serial Nos. 439,078–9; published Mar. 31, 1942. Class 47.
Schuckl & Co., Inc., doing business as Sunnyvale Packing Company, San Francisco, Calif. Canned fruits. 396,125; June 30; Serial No. 448,805; published Apr. 21, 1942. Class 46.
Sears, Roebuck and Company, Chicago, Ill. Paint stripping tool. 396,238; June 30. Class 23.
Selvo Co. (See Moretti, Clarence M.)
Seven-Up Bottling Co. of Baltimore, Inc., The, doing business as Caton Spring Water Co., Catonsville, Md. Beverages, syrups, ginger-ale, etc. 396,262; June 30. Class 45.
Sharples Chemicals Inc., Philadelphia, Pa. Chemicals which are alkylated acid amides and substances derived therefrom. 396,214; June 30; Serial No. 451,091; published Apr. 21, 1942. Class 6.
Silent Hoist Winch & Crane Co., Brooklyn, N. Y. Portable hoists and cranes. 396,180; June 30; Serial No. 450,699; published Apr. 14, 1942. Class 23.
Smith, T. J., & Nephew, Limited, Hull, England. Medical and surgical dressings, bandages, and plasters, non-medicated. 396,063; June 30; Serial No. 400,254; published Feb. 22, 1938. Class 44.
Solter, William J., doing business as Superior Products Company, Golden, Colo. Stock tonics and conditioners. 396,140; June 30; Serial No. 449,788; published Apr. 14, 1942. Class 6.
Squirt Company, The, Beverly Hills, Calif. Beverages and the bases, syrups, etc. and extracts for making same. 396,177; June 30; Serial No. 450,667; published Apr. 21, 1942. Class 45.
Stanley Home Products, Inc., Westfield, Mass. Insecticides. 396,150; June 30; Serial No. 450,030; published Apr. 14, 1942. Class 6.
Stein Bros., New York, N. Y. Men's topcoats and overcoats. 396,193; June 30; Serial No. 450,911; published Apr. 14, 1942. Class 39.
Stein, Joseph, doing business as Joseph Stein Coat Co., New York, N. Y. Ladies' and misses' coats, suits and skirts. 396,168; June 30; Serial No. 450,432; published Apr. 21, 1942. Class 39.
Stella Cheese Company, Chicago, Ill. Cheese. 396,094; June 30; Serial No. 444,163; published Apr. 21, 1942. Class 46.
Stokes, Francis C., Company, Vincentown, N. J. Apple juice and canned sweet potatoes. 396,231; June 30. Serial No. 451,324; published Apr. 21, 1942. Class 46.
Stotlar, L. E., doing business as Physicians Supply Company, Herrin, Ill. Analgesic and antipyretic. 396,082; June 30; Serial No. 440,888; published Mar. 10, 1942. Class 6.
Style Cemar Co. (See Maher, Charles E.)
Sunnyvale Packing Company. (See Schuckl & Co., Inc.)
Sunway Vitamin Co., Chicago, Ill. Therapeutic vitamin preparation. 396,173; June 30; Serial No. 450,496; published Apr. 14, 1942. Class 6.
Superior Products Company. (See Solter, William J.)
Sutton & Sons Limited, Reading, England. Fertilizers. 396,120; June 30; Serial No. 448,347; published Apr. 21, 1942. Class 10.
Teca Corporation, New York, N. Y. Dry cell and wet storage batteries, electric current rectifiers, generators, etc. 396,159; June 30; Serial No. 450,249; published Apr. 21, 1942. Class 21.
Tested Papers of America, Inc., Chicago, Ill. Incandescent electric light bulbs. 396,141; June 30; Serial No. 449,813; published Apr. 14, 1942. Class 21.
Texlite, Incorporated, Dallas, Tex. Porcelain coated metal sheets. 396,092–3; June 30; Serial Nos. 444,104–5; published Apr. 21, 1942. Class 12.
Three Winds Dairy. (See Celballos, Juan M.)
Tivoli Brewing Company, Detroit, Mich. Beer. 396,222; June 30; Serial No. 451,150; published Apr. 21, 1942. Class 48.
Toledo Steel Products Company, The, Toledo, Ohio. Engine pistons, engine piston pins and engine bearings, etc. 396,115; June 30; Serial No. 448,017; published Apr. 7, 1942. Class 23.
Treves, Angiolo, Dario Treves and Vittorio Ovazza, Turin, Italy. Rubber substitutes and rubber composition material. 396,078; June 30; Serial No. 440,035; published Apr. 7, 1942. Class 50.
Treves, Dario. (See Treves, Angiolo, Dario Treves, and Vittorio Ovazza.)
Uddo, Joseph, doing business as Johnson Chemical Co., Brooklyn, N. Y. Disinfectant. 396,088; June 30; Serial No. 443,060; published Apr. 21, 1942. Class 6.
Union Fork & Hoe Company, The, Columbus, Ohio. Hand operated tools. 396,197; June 30; Serial No. 450,930; published Apr. 21, 1942. Class 23.
Wartsila-Yhtyma O/Y-Wartsila-Korcernen A/B, Vartsila, Finland. Dairy machinery. 396,126; June 30; Serial No. 449,028; published Apr. 21, 1942. Class 23.
Wells, S. C., & Company, Le Roy, N. Y. Laxative. 396,169; June 30; Serial No. 450,436; published Apr. 21, 1942. Class 6.
Western Auto Supply Company, Kansas City, Mo. Incandescent electric lamps. 396,236; June 30. Class 21.
Westinghouse Air Brake Company, The, Borough of Wilmerding, Pa. Valves, drill rigs, machines, etc. No. 396,101; June 30; Serial No. 445,567; published Apr. 21, 1942. Class 23.
Whitehouse Manufacturing Company, Chicago, Ill. Cotton work uniforms, aprons, linen, etc. 396,091; June 30; Serial No. 444,028; published Apr. 14, 1942. Class 39.
Widmayer, John J., doing business as Widmayer Steel Company, Washington, D. C. Building block for plastic floors or roofs. 396,149; June 30; Serial No. 449,984; published Apr. 7, 1942. Class 12.
Yancey, Clement L., Jr., doing buisness as Greensboro Cotton Twine Company, Greensboro, N. C. Cotton twine. 396,175; June 30; Serial No. 451,734; published May 5, 1942. Class 7.
Young, Chas. W., & Co., Philadelphia, Pa. Soap. 396,108; June 30; Serial No. 446,712; published Apr. 21, 1942. Class 4.
Younghusband, James L., Chicago, Ill. Preparations for the hands and finger nails. 396,178; June 30; Serial No. 450,670; published Apr. 14, 1942. Class 6.
Zendman, I., Inc. Laces in the piece. 396,147; June 30; Serial No. 449,934; published Apr. 7, 1942. Class 42.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Aplite. Dominion Minerals, Incorporated. 396,209; June 30; Serial No. 451,075; published Apr. 21, 1942.
Coal. Old Ben Coal Corporation. 396,213; June 30; Serial No. 451,087; published Apr. 21, 1942.
Cotton batting or cotton batts. Lockport Cotton Batting Co. 396,211–12; June 30; Serial Nos. 451,083–4; published Apr. 21, 1942.
Leather, Glazed kid. Amalgamated Leather Companies. 396,252; June 30.

CLASS 3

Handbags and pocketbooks. Goldberg & Seltzer, Inc. 396,271; June 30.

CLASS 4

Cleaner for removing stains resulting from the action of silvering solutions from the hands, etc., of those engaged in making mirrors, Liquid. Peacock Laboratories, Inc. 396,133; June 30; Serial No. 449,388; published Apr. 14, 1942.
Soap. Chas. W. Young & Co. 396,108; June 30; Serial No. 446,712; published Apr. 21, 1942.

CLASS 5

Cement, Padding. Champion Mfg. Co. 396,162; June 30; Serial No. 450,354; published Apr. 21, 1942.

CLASS 6

Adsorbent, antacid, astringent, etc. preparation, analgesics, anesthetics, etc. Alba Pharmaceutical Company. 396,264; June 30.
Alkaline earth metal silicate. Pittsburgh Plate Glass Company. 396,079; June 30; Serial No. 440,210; published Apr. 14, 1942.
Analgesic and antipyretic. L. E. Stottar. 396,082; June 30; Serial No. 440,888; published Mar. 10, 1942.
Anesthetics and local anesthetics with vasoconstrictors, Local. Cook Laboratories, Inc. 396,265; June 30.
Chemicals and insecticides for spraying and dusting purposes. Central Chemical Corporation of Maryland. 396,215; June 30; Serial No. 451,103; published Apr. 21, 1942.
Chemicals for developing and fixing X-rays. General Electric X-Ray Corporation. 396,239; June 30.
Chemicals for developing X-rays. General Electric X-Ray Corporation. 396,245; June 30.
Chemicals for fixing X-rays. General Electric X-Ray Corporation. 396,244; June 30.
Chemicals which are alkylated acid amides and substances derived therefrom. Sharples Chemicals Inc. 396,214; June 30; Serial No. 451,091; published Apr. 21, 1942.
Chemical preparation. Martin Dennis Company. 396,227; June 30; Serial No. 451,226; published Apr. 21, 1942.
Chemical preparations. Gemloid Corporation. 396,071; June 30; Serial No. 439,017; published Apr. 14, 1942.
Cologne. M. H. Jacobs. 396,250; June 30.
Cosmetic mittens. Parfums Charbert, Inc. 396,167; June 30; Serial No. 450,424; published Apr. 21, 1942.
Cosmetics. Carson Pirie Scott & Company. 396,064; June 30; Serial No. 434,317; published Apr. 14, 1942.
Creams, skin fresheners, mouth washes, etc. Marshall Field & Company. 396,171; June 30; Serial No. 450,476; published Apr. 14, 1942.
Disinfectant. J. Uddo. 396,088; June 30; Serial No. 443,060; published Apr. 21, 1942.
Drugs and pharmaceuticals. Lakeside Laboratories, Inc. 396,235; June 30; Serial No. 451,552; published Apr. 21, 1942.
Dye removing materials, dyeing materials, and fabric finishing materials. C. E. Maher. 396,219; June 30; Serial No. 451,142; published Apr. 21, 1942.
Dyes and shampoo tints, Hair. P. Helmlich. 396,259; June 30.
Enamel adapted for coating finger nails, and lipsticks. Revlon Products Corporation. 396,066; June 30; Serial No. 436,143; published Apr. 21, 1942.
Enamel adapted for coating finger nails, and lipsticks. Revlon Products Corporation. 396,233; June 30; Serial No. 451,503; published Apr. 21, 1942.
Insecticides. J. B. Blea. 396,105; June 30; Serial No. 445,973; published Mar. 31, 1942.
Insecticides. Stanley Home Products, Inc. 396,150; June 30; Serial No. 450,030; published Apr. 14, 1942.
Insecticides and fungicides. Lucas Kil-Tone Co. 396,247; June 30.
Laxative. S. C. Wells & Company. 396,169; June 30; Serial No. 450,436; published Apr. 21, 1942.
Lipstick, face lotions, cream, etc. Lyndon Products Corporation. 396,254; June 30.
Lipstick, rouge, nail polish, etc. Lehn & Fink Products Corporation. 396,201; June 30; Serial No. 450,971; published Apr. 21, 1942.
Lipsticks. Christy Cosmetics, Inc. 396,230; June 30; Serial No. 451,294; published Apr. 14, 1942.

Materials and solutions for treating printing plates to prepare and preserve reproducible images thereon. Addressograph-Multigraph Corporation. 396,232; June 30; Serial No. 451,332; published Apr. 14, 1942.
Medicaments and pharmaceutical medicaments. Charles E. Frosst & Co. 396,263; June 30.
Medicinal cigarettes. John K. Brater and Co. Inc. 396,217; June 30; Serial No. 451,132; published Apr. 14, 1942.
Methoxy ethyl oleate. Ohio-Apex, Inc. 396,095; June 30; Serial No. 444,604; published Nov. 25, 1941.
Nail polishes, Liquid. Peggy Sage, Inc. 396,179; June 30; Serial No. 450,695; published Apr. 14, 1942.
Ointment for baby use. E. J. Feurer. 396,269; June 30
Oxides of iron having a general use in the industrial arts. Reichard-Coulston, Inc. 396,206; June 30; Serial No. 451,019; published Apr. 21, 1942.
Package containing miniature samples of various shades of face powder. Armand Company. 396,113; June 30; Serial No. 447,718; published Apr. 21, 1942.
Perfume. Irresistible, Inc. 396,087; June 30; Serial No. 441,541; published Apr. 21, 1942.
Perfumes. Parfums Massenet, Inc. 396,132; June 30; Serial No. 449,212; published Apr. 21, 1942.
Perfumes, toilet water, cologne, etc. S. S. Pierce Co. 396,069; June 30; Serial No. 438,183; published Jan. 7, 1941.
Perfumes, toilet waters, sachets, etc. Parfums Charbert, Inc. 396,221; June 30; Serial No. 451,146; published Apr. 14, 1942.
Pigment, Black carbon. Peerless Carbon Black Company. 396,077; June 30; Serial No. 439,726; published Apr. 22, 1941.
Preparation adapted for use on the legs to create the effect of silk stockings. Beauty Counselors, Inc. 396,223; June 30; Serial No. 451,159; published Apr. 21, 1942.
Preparation for application to stoves. L. P. Crocker. 396,261; June 30.
Preparation for the treatment of athlete's foot. Drug Guild, Inc. 396,139; June 30; Serial No. 449,733; published Apr. 21, 1942.
Preparation for use on textiles, plastic materials, etc. L. J. Rampel. 396,188; June 30; Serial No. 450,771; published Apr. 21, 1942.
Preparations for the hands and finger nails. J. L. Younghusband. 396,178; June 30; Serial No. 450,670; published Apr. 14, 1942.
Radiator preparations. Commercial Solvents Corporation. 396,102; June 30; Serial No. 445,685; published Apr. 21, 1942.
Radiator preparations. Commercial Solvents Corporation. 396,257–8; June 30.
Spray, Anti-freeze, brake fluid, Insect. American Oil Company. 396,202; June 30; Serial No. 450,986; published Apr. 14, 1942.
Spray, Anti-freeze, brake fluid, Insect. American Oil Company. 396,203; June 30; Serial No. 450,988; published Apr. 14, 1942.
Starches. National Starch Products Inc. 396,249; June 30.
Tartaric acid, Epsom salts, thiourea, etc. Peacock Laboratories, Inc. 396,134; June 30; Serial No. 449,390; published Apr. 14, 1942.
Therapeutic vitamin preparation. Sunway Vitamin Co. 396,173; June 30; Serial No. 450,496; published Apr. 14, 1942.
Tonics and conditioners, Stock. W. J. Solter. 396,140; June 30; Serial No. 449,788; published Apr. 14, 1942.
Vitamin preparation. Nyal Company. 396,225; June 30; Serial No. 451,178; published Apr. 21, 1942.

CLASS 7

Twine, Cotton. C. L. Yancey, Jr. 396,175; June 30; Serial No. 451,734; published May 5, 1942.

CLASS 9

Ammunition. Andover Kent Inc. 396,135; June 30; Serial No. 449,510; published Apr. 14, 1942.
Rifles, Air. Daisy Manufacturing Company. 396,205; June 30; Serial No. 451,006; published Apr. 14, 1942.

CLASS 10

Fertilizers. Sutton & Sons Limited. 396,120; June 30; Serial No. 448,347; published Apr. 21, 1942.
Manure, compost, and plant preparations designed to increase the fertilizing properties of compost and manure. Bio-Dynamic Farming and Gardening Association, Inc. 396,106; June 30; Serial No. 446,351; published Apr. 14, 1942.

CLASS 12

Building block for plastic floors or roofs. J. J. Widmayer. 396,149; June 30; Serial No. 449,984; published Apr. 7, 1942.
Fire brick, refractory tile, refractory materials, etc. Ferro Enamel Corporation. 396,123; June 30; Serial No. 448,605; published Jan. 13, 1942.

Masonry mortar, and composition or admixture for incorporation with concrete mix or the like, Hydraulic and water-proofed. James River Hydrate & Supply Company. 396,070; June 30; Serial No. 438,825; published Apr. 21, 1942.
Metal sheets, Porcelain coated. Texlite, Incorporated. 396,092–3; June 30; Serial Nos. 444,104–5; published Apr. 21, 1942.
Plank, Tongue and groove aerated concrete. Martin Fireproofing Corporation. 396,080; June 30; Serial No. 440,785; published Apr. 8, 1941.
Shingles, Asbestos-cement. Johns-Manville Corporation. 396,068; June 30; Serial No. 437,656; published Apr. 21, 1942.
Structures, Physical training. Potomac Engineering Service Company. 396,153; June 30; Serial No. 450,146; published Apr. 21, 1942.
Tiles, Floor. David E. Kennedy, Inc. 396,155; June 30; Serial No. 450,163; published Apr. 21, 1942.

CLASS 15

Gasoline, lubricating oils, and greases. American Oil Company. 396,266–7; June 30.
Lubricants. Gulf Oil Corporation. 396,065; June 30; Serial No. 435,499; published Apr. 21, 1942.
Oils and greases, Lubricating. Freedom Oil Company. 396,127; June 30; Serial No. 449,045; published Apr. 21, 1942.

CLASS 16

Paints. Old Colony Paint & Chemical Co. 396,119; June 30; Serial No. 448,298; published Feb. 3, 1942.

CLASS 19

Trailer bogies. A. R. Nelson. 396,260; June 30.

CLASS 20

Floor covering. Carthage Mills Incorporated. 396,164; June 30; Serial No. 450,390; published Apr. 14, 1942.

CLASS 21

Batteries, electric current rectifiers, generators, etc., Dry cell and wet storage. Teca Corporation. 396,159; June 30; Serial No. 450,249; published Apr. 21, 1942.
Bulbs, Incandescent electric light. Tested Papers of America, Inc. 396,141; June 30; Serial No. 449,813; published Apr. 14, 1942.
Electric contacts, electric tube and lamp welds, etc. Callite Tungsten Corporation. 396,103; June 30; Serial No. 445,714; published Apr. 7, 1942.
Electric lighting fixtures. Benjamin Electric Mfg. Company. 396,083–6; June 30; Serial Nos. 441,041–4; published Apr. 21, 1942.
Electric tacking irons and electric irons. Eastman Kodak Company. 396,165–6; June 30; Serial Nos. 450,415–6; published Apr. 21, 1942.
Electrical fence charging apparatus and equipment. Farmers Engineering & Manufacturing Co. 396,160; June 30; Serial No. 450,259; published Apr. 21, 1942.
Electrical heating device with open coil heating element and rheostat control. Fisher Scientific Company. 396,172; June 30; Serial No. 450,478; published Apr. 21, 1942.
Electrical transformers. Line Material Company. 396,251; June 30.
Electrically-generated-ray handling apparatus and parts thereof. Fostoria Pressed Steel Corporation. 396,256; June 30.
Electrically operated or electrically controlled apparatus and parts thereof for installation as a unit in hollow toy articles. A. C. Gilbert Company. 396,096; June 30; Serial No. 444,760; published Apr. 7, 1942.
Fans, Electrical air circulating. Circulators & Devices Mfg. Corp. 396,130; June 30; Serial No. 449,168; published Apr. 21, 1942.
Generators, spark plugs, radio receiving sets, etc., Electric. Economy Auto Stores, Inc. 396,142; June 30; Serial No. 449,900; published Apr. 14, 1942.
Lamps, Electric. R. A. Rodriguez. 396,129; June 30; Serial No. 449,156; published Apr. 14, 1942.
Lamps, electrical lighting fixtures, electrical appliances, Fluorescent. American Fluorescent Lighting Corporation. 396,090; June 30; Serial No. 443,621; published Apr. 14, 1942.
Lamps, Incandescent electric. Western Auto Supply Company. 396,236; June 30.
Signal receiving units, Electrical. Century Radio Co. Inc. 396,081; June 30; Serial No. 440,800; published May 20, 1941.
Signs, Electric. National Screen Service Corporation. 396,118; June 30; Serial No. 448,202; published Apr. 14, 1942.
Switches, Electric. Micro Switch Corporation. 396,076; June 30; Serial No. 439,355; published Apr. 7, 1942.
Switches, actuator mechanisms, housings, etc., Electric. Micro Switch Corporation. 396,075; June 30; Serial No. 439,353; published Apr. 7, 1942.
Telephone systems, Apparatus in. Cook Electric Company. 396,110; June 30; Serial No. 447,042; published Apr. 14, 1942.

CLASS 22

Bowling alleys. F. Nall. 396,148; June 30; Serial No. 449,968; published Apr. 21, 1942.
Dolls and other toys. L. D. Munford. 396,117; June 30; Serial No. 448,162; published Apr. 21, 1942.
Dolls. Ideal Novelty & Toy Co. 396,226; June 30; Serial No. 451,207; published Apr. 21, 1942.
Punch boards. R. F. Conway. 396,062; June 30; Serial No. 399,748; published Mar. 4, 1941.

CLASS 23

Conveyor and mixer for stock feeds, flours, and the like. V. J. Coleman. 396,255; June 30.
Cutters, trimmers, choppers, etc., Paper. Harris-Seybold-Potter Company. 396,199; June 30; Serial No. 450,964; published Apr. 21, 1942.
Dairy machinery. Wartsila-Yhtyma O/Y-Wartsila-Koncernen A/B. 396,126; June 30; Serial No. 449,028; published Apr. 21, 1942.
Engine pistons, engine piston pins and engine bearings, etc. Toledo Steel Products Company. 396,115; June 30; Serial No. 448,017; published Apr. 7, 1942.
Extinguishers, Portable hand operated. Atlas Supply Company. 396,154; June 30; Serial No. 450,154; published Apr. 21, 1942.
Hoists and cranes, Portable. Silent Hoist Winch & Crane Co. 396,180; June 30; Serial No. 450,699; published Apr. 14, 1942.
Machinery for securing thin metallic printing plates to rigid curved backing members. Electrographic Corporation. 396,131; June 30; Serial No. 449,204; published Apr. 14, 1942.
Machines acting to sponge the cloth, Cloth finishing. Parks and Woolson Machine Co. 396,152; June 30; Serial No. 450,113; published Apr. 21, 1942.
Metal working machinery. Delaware Machinery Corporation. 396,100; June 30; Serial No. 445,490; published Apr. 7, 1942.
Power transmission machinery. Allis-Chalmers Manufacturing Company. 396,176; June 30; Serial No. 450,581; published Apr. 7, 1942.
Razor blades. Lawrence Barry, Ltd. 396,243; June 30.
Regulators, Automatic. Le Roi Company. 396,112; June 30; Serial No. 447,703; published Apr. 21, 1942.
Saws of all kinds. Pennsylvania Saw Corporation. 396,270; June 30.
Shoe machinery. Compo Shoe Machinery Corporation. 396,268; June 30.
Stapling machines, staple removers, paper punches, etc., Metal Specialties Manufacturing Co. 396,114; June 30; Serial No. 447,750; published Apr. 21, 1942.
Tools, Hand operated. Union Fork & Hoe Company. 396,197; June 30; Serial No. 450,930; published Apr. 21, 1942.
Tools, Machine. Cincinnati Milling Machine Co. 396,107; June 30; Serial No. 446,517; published Apr. 21, 1942.
Tool, Paint striping. Sears Roebuck and Co. 396,238; June 30.
Typewriters. Remington Rand Inc. 396,234; June 30; Serial No. 451,541; published Apr. 21, 1942.
Valves, drill rigs, machines, etc. Westinghouse Air Brake Company. 396,101; June 30; Serial No. 445,567; published Apr. 21, 1942.

CLASS 26

Flowmeters, chart type recorders, recorders, etc. Republic Flow Meters Company. 396,098; June 30; Serial No. 445,299; published Oct. 14, 1941.
Rulers, straightedges, T-squares, etc. H. L. De Lisle. 396,099; June 30; Serial No. 445,319; published Apr. 21, 1942.

CLASS 27

Watches. Bulova Watch Company. 396,208; June 30; Serial No. 451,072; published Apr. 21, 1942.

CLASS 34

Gas burners, gas burning himidifiers, garbage incinerators and water heaters. Autogas Company. 396,109; June 30; Serial No. 446,788; published Oct. 21, 1941.

CLASS 37

Cloth, Tracing and pencil. Arkwright Finishing Company. 396,191; June 30; Serial No. 450,892; published Apr. 21, 1942.
Composite guides for card filing equipment. Diebold Safe & Lock Company. 396,246; June 30.
Tissue, Toilet. Leadway Stores Corporation. 396,200; June 30; Serial No. 450,970; published Apr. 21, 1942.

CLASS 39

Clothing, Men's. Joseph H. Cohen & Sons, Vanity Clothes, Inc. 396,195; June 30; Serial No. 450,917; published Apr. 21, 1942.
Clothing, Men's. Alfred Decker & Cohn, Inc. 396,121; June 30; Serial No. 448,501; published Apr. 14, 1942.
Coats, suits and skirts, Ladies' and misses'. J. Stein. 396,168; June 30; Serial No. 450,432; published Apr. 21, 1942.
Cotton work uniforms, aprons, linen, etc. Whitehouse Manufacturing Company. 396,091; June 30; Serial No. 444,028; published Apr. 14, 1942.
Dresses and aprons, Ladies' house. Jeuda Textile Corporation. 396,189; June 30; Serial No. 450,800; published Apr. 21, 1942.

Dresses and wraps. Prom Dance Frocks, Incorporated. 396,067; June 30; Serial No. 436,419; published Dec. 3, 1940.
Dresses, blouses, suits, etc., Ladies' and Misses'. Mayflower Dress Co. 396,220; June 30; Serial No. 451,144; published Apr. 21, 1942.
Garments, Children's combination. G., H. & E. Freydberg, Inc. 396,224; June 30; Serial No. 451,168; published Apr. 21, 1942.
Hats for women. Hat Corporation of America. 396,210; June 30; Serial No. 451,081; published Apr. 14, 1942.
Hats, Ladies' and children's. Betmar Hats Inc. 396,228; June 30; Serial No. 451,255; published Apr. 14, 1942.
Hats, Ladies' and misses'. Associated Lerner Shops of America, Inc. 396,163; June 30; Serial No. 450,388; published Apr. 14, 1942.
Hosiery. Hanes Hosiery Mills Co. 396,128; June 30; Serial No. 449,135; published Apr. 21, 1942.
Neckties and cravats. Hut Neckwear Co. Inc. 396,124; June 30; Serial No. 448,614; published Jan. 20, 1942.
Neckties and mufflers. McCurrach Organization Incorporated. 396,122; June 30; Serial No. 448,514; published Jan. 20, 1942.
Necktie, Men's. I. Goldenberg. 396,116; June 30; Serial No. 448,045; published Apr. 21, 1942.
Pajamas, Men's. Enro Shirt Company. 396,156; June 30; Serial No. 450,178; published Apr. 21, 1942.
Shirts and jackets, Outer. Oberman & Company. 396,061; June 30; Serial No. 388,364; published Apr. 14, 1942.
Shirts, Men's dress and sport. Beaver Shirt Manufacturing Co. 396,229; June 30; Serial No. 451,282; published Apr. 21, 1942.
Shirts, Negligee dress. Cluett, Peabody & Co., Inc. 396,204; June 30; Serial No. 451,002; published Apr. 21, 1942.
Stockings and socks. T. S. Cunningham. 396,111; June 30; Serial No. 447,695; published Apr. 14, 1942.
Topcoats and overcoats, Men's. Stein Bros. 396,193; June 30; Serial No. 450,911; published Apr. 14, 1942.
Under-garments, Ladies' cotton. Rollins Hosiery Mills, Inc. 396,138; June 30; Serial No. 449,703; published Apr. 14, 1942.
Underwear, Infants' and children's knitted. E-Cut Knitting Mills. 396,207; June 30; Serial No. 451,048; published Apr. 21, 1942.
Underwear, Ladies'. Arnold M. Elbe Co. Inc. 396,198, June 30; Serial No. 450,960; published Apr. 14, 1942.

CLASS 40

Combs; and toilet sets. Chase Brass & Copper Co. Incorporated. 396,089; June 30; Serial No. 443,114; published Apr. 14, 1942.
Shields, Dress. Rand Rubber Company. 396,161; June 30; Serial No. 450,344; published Apr. 14, 1942.

CLASS 42

Bedspreads and rugs. Cabin Crafts. 396,158; June 30; Serial No. 450,222; published Apr. 21, 1942.
Laces in the piece. I. Zendman, Inc. 396,147; June 30; Serial No. 449,934; published Apr. 7, 1942.
Piece goods. Barbizon Corporation. 396,151; June 30; Serial No. 450,086; published Apr. 21, 1942.
Piece goods in rayon or silk or combination thereof. Plymouth Dye Works, Inc. 396,137; June 30; Serial No. 449,699; published Apr. 21, 1942.
Piece goods of cotton, wool, rayon, silk, and combinations thereof. Harrison Mills, Inc. 396,104; June 30; Serial No. 445,938; published Apr. 21, 1942.
Textile fabrics in the piece. Klein Brothers Textile Corp. 396,174; June 30; Serial No. 450,509; published Apr. 21, 1942.
Rayon and cotton fabrics in the piece, table cloths, napkins, etc. Leacock & Co. 396,253; June 30.

CLASS 43

Selvage strips to be used in crocheting, knitting, punch-work, and weaving. C. M. Moretti. 396,157; June 30; Serial No. 450,185; published Apr. 21, 1942.
Yarns of cellulose. Courtaulds, Limited. 396,181; June 30; Serial No. 450,712; published Apr. 14, 1942.
Yarns of cellulose. Courtaulds, Limited. 396,184; June 30; Serial No. 450,720; published Apr. 14, 1942.
Yarns of cellulose. Courtaulds, Limited. 396,185; June 30; Serial No. 450,722; published Apr. 14, 1942.
Yarns of cellulose. Courtaulds, Limited. 396,186; June 30; Serial Nos. 450,724; published Apr. 14, 1942.
Yarns, Rayon. Courtaulds, Limited. 396,182; June 30; Serial No. 450,716; published Apr. 14, 1942.
Yarns, Rayon. Courtaulds, Limited. 396,183; June 30; Serial No. 450,718; published Apr. 14, 1942.
Yarns, threads and yarn and thread filaments. American Viscose Corporation. 396,194; June 30; Serial No. 450,916; published Apr. 7, 1942.

CLASS 44

Dressings, bandages, and plasters, non-medicated, Medical and surgical. T. J. Smith & Nephew, Limited. 396,063; June 30,; Serial No. 400,254; published Feb. 22, 1938.

CLASS 45

Beverages and the bases, syrups, etc., and extracts for making same. Squirt Company. 396,177; June 30; Serial No. 450,667; published Apr. 21, 1942.
Beverages, syrups and extracts for making. Safeway Stores, Inc., of Nevada. 396,216; June 30; Serial No. 451,120; published Apr. 21, 1942.
Beverages, syrups, ginger-ale, etc. Seven-Up Bottling Co. of Baltimore, Inc. 396,262; June 30.

CLASS 46

Apple juice and canned sweet potatoes. Francis C. Stokes Company. 396,231; June 30; Serial No. 451,324; published Apr. 21, 1942.
Bananas. Fruit Dispatch Company. 396,192; June 30; Serial No. 450,896; published Apr. 21, 1942.
Canned dog food. Foster Canning Company of Ohio. 396,190; June 30; Serial No. 450,851; published Apr. 21. 1942.
Canned fruits. Schuckl & Co. 396,125; June 30; Serial No. 448,805; published Apr. 21, 1942.
Cereal, Breakfast. Great Atlantic & Pacific Tea Company. 396,218; June 30; Serial No. 451,138; published Apr. 21, 1942.
Cheese. Stella Cheese Company. 396,094; June 30; Serial No. 444,163; published Apr. 21, 1942.
Coffee. Hard & Rand, Inc. 396,240; June 30.
Confection. Holly-Cater Company. 396,170; June 30; Serial No. 450,449; published Apr. 21, 1942.
Ice cream, ices and similar frozen confections. Metropolitan Ice Cream Co. 396,237; June 30.
Meat products. O. Mayer & Co. 396,097; June 30; Serial No. 445,238; published Apr. 21, 1942.
Milk, Goat's. J. M. Ceballos. 396,136; June 30; Serial No. 449,638; published Apr. 21, 1942.
Mince meat, spices, split peas, etc. Andersen's. 396,241; June 30.
Tea. Thomas J. Lipton, Inc. 396,143–6; June 30; Serial Nos. 449,907–10; published Apr. 21, 1942.

CLASS 47

Wines. Sanchez Romate Hermanos, S. A. 396,072; June 30; Serial No. 439,075; published Mar. 31, 1942.
Wines. Sanchez Romate Hermanos, S. A. 396,073–4; June 30; Serial Nos. 439,078–9; published Mar. 31, 1942.

CLASS 48

Beer. Crockery City Ice & Products Company. 396,248; June 30.
Beer. Tivoli Brewing Company. 396,222; June 30; Serial No. 451,150; published Apr. 21, 1942.

CLASS 50

Christmas tree ornaments. K. & W. Glass Works, Inc. 396,242; June 30.
Leather, Artificial. Pantasote Leather Company. 396,196; June 30; Serial No. 450,918; published Apr. 21, 1942.
Plate glass substitute. M. B. Heim. 396,187; June 30; Serial No. 450,767; published Apr. 21, 1942.
Rubber substitutes and rubber composition material. Angiolo Treves, Dario Treves, and Vittorio Ovazza. 396,078; June 30; Serial No. 440,035; published Apr. 7, 1942.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 30TH DAY OF JUNE, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Cornish, Robert E. (See McKittrick, D. S., and Cornish.)
McKittrick, Donald S., Oakland, and R. E. Cornish, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Separation of phases with the aid of sonic waves. Re. 22,126; June 30.
Plumstead, Joseph E., Wilmington, Del., assignor, by mesne assignments, to West Virginia Pulp & Paper Company, New York, N. Y. Composition of matter and preparing the same. Re. 22,127; June 30.
Shell Development Company. (See McKittrick, D. S., and Cornish, assignors.)
West Virginia Pulp & Paper Company. (See Plumstead, Joseph E., assignor.)

LIST OF PLANT PATENTEES

Armstrong Nurseries, Inc. (See Lammerts, Walter E., assignor.)
Lammerts, Walter E., assignor to Armstrong Nurseries, Inc., Ontario, Calif. Peach tree. 528; June 30.
Lammerts, Walter E., assignor to Armstrong Nurseries, Inc., Ontario, Calif. Peach tree. 529; June 30.
Meadowcraft, James N., Sr., assignor to J. H. Thompson's Sons, Kennett Square, Pa. Rose plant. 530; June 30.
Thompson's, J. H., Sons. (See Meadowcraft, James N., Sr., assignor.)

LIST OF DESIGN PATENTEES

Abt, John H., assignor to Deering Milliken & Co., Inc., New York, N. Y. Textile fabric. 132,884; June 30.
Alexander, Daniel C., Paris, Mo. Game board. 132,901; June 30.
Atkins, Thomas R., New York, N. Y. Shoe. 132,885; June 30.
Autopoint Company. (See Christenson, Trace, Jr., assignor.)
Babs Creations, Incorporated. (See Marquis, Annette, assignor.)
Barbieri, Nicholas, Providence, R. I., assignor to Uncas Manufacturing Company. Brooch or similar article. 132,886; June 30.
Barbieri, Nicholas, Providence, R. I., assignor to Uncas Manufacturing Company. Bracelet. 132,887; June 20.
Barofsky, Jack, Los Angeles, Calif. Stand for a hand telephone. 132,902; June 20.
Bird & Son, Inc. (See Walker, Bernard J., assignor.)
Bishop, G. H., Co. (See Freeman, David A., assignor.)
Biszantz, Fred, assignor to The Galion Metallic Vault Company, Galion, Ohio. Dump body. 132,903; June 30.
Both, Viola, Maspeth, Long Island, N. Y. Pin or similar article. 132,888; June 30.
Bowman, Harry L., Casper, Wyo. Badge or similar article. 132,889; June 30.
Brabham, Willie J., assignor of one-half to J. F. Risher, Bamberg, S. C. Wallboard finishing knife. 132,890; June 30.
Buckingham, John D., assignor to Lucien Lelong, Inc., Chicago, Ill. Bottle display unit or similar article. 132,904; June 30.
Buckner, Anthony J., Jackson Heights, assignor to Grosfeld House, Inc., New York, N. Y. Bedstead. 132,905; June 30.
Cadgène, Narcisse, Montclair, N. J. Diaper or similar article. 132,937; June 30.
Chapman, David, Chicago, Ill., assignor to Snap-On Tools Corporation, Kenosha, Wis. Tool handle. 132,891; June 30.
Chase, Ernest D., Winchester, Mass. Commemorative service flag or similar article. 132,906; June 30.
Christenson, Trace, Jr., Evanston, assignor to Autopoint Company, Chicago, Ill. Mechanical pencil. 132,920; June 30.
Cooper, Bernard H., Cleveland, Ohio. Statuette or similar article. 132,892; June 30.
Cooper, Dan, New York, N. Y. Table. 132,876; June 30.
Cooper, Joseph, New York, N. Y. Table. 132,875; June 30.
Corbett, Joseph R., Sharonville, Ohio, assignor to Nu-Tone, Incorporated, New York, N. Y. Bed tray. 132,893; June 30.
Corley, Ralph A., Mountain Lakes, N. J. T pipe fitting. 132,938; June 30.
Corley, Ralph A., Mountain Lakes, N. J. Elbow pipe fitting. 132,939; June 30.
Cypress Novelty Corporation. (See Krieg, Anthony W., assignor.)
De Broux, Louis J., De Pere, Wis. Game board or similar article. 132,874; June 30.
Deering Milliken & Co. (See Abt. John H., assignor.)
Fibus, Murray M., Youngstown, Ohio. Beverage cooler. 132,894; June 30.
Fitzpatrick, Joseph L., assignor of one-half to N. Merenbach, San Francisco, Calif. Table. 132,907; June 30.
Florman, Irving, New York, N. Y. Cigarette holder. 132,921; June 30.
Freeman, David A., assignor to G. H. Bishop Co., Chicago, Ill. Combined ironing and finishing machine. 132,933; June 30.
Freeman, David A., assignor to G. H. Bishop Co., Chicago, Ill. Combined ironing and finishing machine. 132,934; June 30.
Galion Metallic Vault Company, The. (See Biszantz, Fred, assignor.)
Goehring, John W., Browns Valley, Minn. Purchaser's profit-sharing indicator or the like. 132,908; June 30.
Gold, Nathan, Portland, Oreg. Ascot scarf. 132,909; June 30.
Good, Charles W., assignor to Weil-McLain Company, Erie, Pa. Heating radiator. 132,910; June 30.
Good, Charles W., assignor to Weil-McLain Company, Erie, Pa. Heating radiator. 132,911; June 30.
Graves, Theodore E., Llewellyn Park, Orange, assignor to The Wilcolator Company, Newark, N. J. Oven control indicator. 132,912; June 30.
Green, Gilbert W., Kansas City, Mo. Finger ring. 132,895; June 30.
Grosfeld House, Inc. (See Buckner, Anthony J., assignor.)
Heather, John L., Loudonville, N. Y. Badge for motor vehicles. 132,896; June 30.
Junior Toy Corporation. (See Rideout, John G., assignor.)
Keller, Maurice S., New York, N. Y. Lapel button or similar article. 132,940; June 30.
Kett Tool Company, The. (See Koett, Albert C., assignor.)
Koett, Albert C., assignor to The Kett Tool Company, Cincinnati, Ohio. Driving extension for power driven tool units. 132,913; June 30.
Krieg, Anthony W., assignor to Cypress Novelty Corporation, Brooklyn, N. Y. Decorative candle. 132,922; June 30.
Leerer, Benjamin. New York, N. Y. Textile fabric. 132,897; June 30.
Lelong, Lucien, Inc. (See Buckingham, John D., assignor.)
Lentheric, Incorporated. (See McIntosh, Frank, assignor.)
Lubin, Henry G. (See Vivaudou, J. E., and Lubin.)
Marble, Louis M., Canton, Pa. Garment hanger. 132,877; June 30.
Marquis, Annette, assignor to Babs Creations, Incorporated, New York, N. Y. Bottle. 132,914; June 30.
Mastrangelo, Frank, Fitchburg, Mass. Settee. 132,878; June 30.
McIntosh, Frank, assignor to Lentheric, Incorporated, New York, N. Y. Box blank or similar article. 132,923; June 30.
Merenbach, Nathan. (See Fitzpatrick, Joseph L., assignor.)

Meyer, Maximilian C., Brooklyn, N. Y. Earring. 132,898; June 30.
Nu-Tone, Incorporated. (See Corbett, Joseph R., assignor.)
Perfex Corporation. (See Stevens, Clifford B., assignor.)
Pommier, Henry, New York, N. Y. Combined lipstick cover and mirror. 132,936; June 30.
Quinn, Ada, Ogden, Utah. Apron. 132,924; June 30.
Quinn, Ada, Ogden, Utah. Apron. 132,925; June 30.
Quinn, Ada, Ogden, Utah. Apron. 132,926; June 30.
Quinn, Ada, Ogden, Utah. Apron. 132,927; June 30.
Rideout, John G., Cleveland, Ohio, assignor to Junior Toy Corporation, Hammond, Ind. Step plate for velocipedes or the like. 132,879; June 30.
Rideout, John G., Cleveland, Ohio, assignor to Junior Toy Corporation, Hammond, Ind. Velocipede. 132,880; June 30.
Rideout, John G., Cleveland, Ohio, assignor to Junior Toy Corporation, Hammond, Ind. Handlebar for a velocipede or the like. 132,931; June 30.
Risher, James F. (See Brabham, Willie J., assignor.)
Saffell, Harold V., Los Angeles, Calif. Sprayer pump head. 132,915; June 30.
Schmidt, Louis F., assignor to Stewart-Warner Corporation, Chicago, Ill. Refrigerator. 132,881; June 30.
Schmidt, Louis F., assignor to Stewart-Warner Corporation, Chicago, Ill. Refrigerator. 132,882; June 30.
Schmidt, Louis F., assignor to Stewart-Warner Corporation, Chicago, Ill. Refrigerator. 132,883; June 30.
Shields, Francis J., Bombay, N. Y. Moccasin. 132,929; June 30.
Simon, Irwin B., San Francisco, Calif. Hat. 132,916; June 30.
Snap-On Tools Corporation. (See Chapman, David, assignor.)
Stevens, Clifford B., assignor to Perfex Corporation, Milwaukee, Wis. Air conditioning control. 132,917; June 30.
Stewart-Warner Corporation. (See Schmidt, Louis F., assignor.)
Syman, Theodore E., Denver, Colo. Gem setting. 132,928; June 30.
Temple, David L., St. Petersburg, Fla. Container. 132,918; June 30.
Terryberry, Arthur P., Grand Rapids, Mich. Finger ring. 132,899; June 30.
Uncas Manufacturing Company. (See Barbieri, Nicholas, assignor.)
Vanek, Clifford E., Cleveland, Ohio. Game board. 132,919; June 30.
Vivaudou, Jean E., and H. G. Lubin, New York, N. Y. Sachet potpourri. 132,935; June 30.
Walker, Bernard J., Islington, assignor to Bird & Son, Inc., East Walpole, Mass. Hard-surfaced composition tile floor covering. 132,930; June 30.
Weil-McLain Company. (See Good, Charles W., assignor.)
Weinberg, Harold A., New York, N. Y. Textile fabric. 132,932; June 30.
Whitney, Roy, Decatur, Ill. Hair clipper blade. 132,900; June 30.
Wilcolator Company, The. (See Graves, Theodore E., assignor.)

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 30TH DAY OF JUNE, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbott Laboratories. (See Vliet, E. B., and Moore, assignors.)
Abrams, John, Jersey City, N. J., assignor to Interchemical Corporation, New York, N. Y. Textile printing paste. 2,288,261; June 30.
Acrolein Corporation. (See Herstein, Karl M., assignor.)
Addink, Nicolaas W. H., Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Blocking layer electrode system. 2,288,341; June 30.
Addressograph-Multigraph Corporation. (See Gollwitzer, Walter T., assignor.)
Adel Precision Products Corp. (See Ellinwood, Herman R., assignor.)
Adler, Herman G., Detroit, assignor to Novi Equipment Company, Novi, Mich. Governor. 2,288,382; June 30.
Aff, Albert E., Rockaway Beach, Calif. Sausage cooker. 2,287,956; June 30.
Ahlburg Company. (See Mumma, Harold J., assignor.)
Akron Standard Mold Company, The. (See Bostwick, Henry C., assignor.)
Aktiengesellschaft Brown, Boveri & Cie. (See Jonas, Julius, assignor.)
Aktiengesellschaft Brown, Boveri & Cie. (See Meyerhans, August, assignor.)
Alberts, Leon N., Yonkers, N. Y. Brassiére. 2,287,769; June 30.
Albertson & Company. (See Albertson, Frans O., assignor.)
Albertson, Frans O., assignor to Albertson & Company, Inc., Sioux City, Iowa. Metal spray gun. 2,287,770; June 30.
Alexander, John W., Arlington, Va. Sign. 2,288,151; June 30.
Alexander, Peter P., Marblehead, Mass. Production of powdered alloys. 2,287,771; June 30.
Allardice, Thomas B., New York, N. Y., assignor to B. F. Sturtevant Company, Boston, Mass. Centrifugal fan. 2,287,853; June 30.
Allen, Charles F. H. (See Carroll, B. H., and Allen.)
Allen, Howard G., Niagara Falls, and K. C. Saunders, Kenmore, N. Y., assignors to Consolidated Packaging Machinery Corporation. Bag closing and sealing apparatus. 2,287,957; June 30.
Allen, Kenneth C. (See Meeker, D. A., and Allen.)
Allina, Alois. (See Arledter, F., and Allina.)
Allis-Chalmers Manufacturing Company. (See Frudden, Conrad E., assignor.)
Allison, Joseph W. (See Gulliksen, F. H., Allison and Pearce.)
Almquist, Nils T., and P. J. Kircher, assignors to Landers, Frary & Clark, New Britain, Conn. Sad iron. 2,288,175; June 30.
Altorfer, Henry W., Peoria, Ill. Automatic washing machine. 2,287,927; June 30.
Amalgamated Wireless (Australasia) Limited. (See Green, Alfred L., assignor.)
American Can Company. (See Biggs, Llewellyn, assignor.)
American Can Company. (See Drollet, William S., assignor.)
American Can Company. (See Murch, John H., assignor.)
American Can Company. (See Renard, Roland E., assignor.)
American Chain & Cable Company. (See Bratz, O. J., and Berchtold, assignors.)
American District Telegraph Company. (See Muchter, Manfred W., assignor.)
American Hyalsol Corporation. (See Burgdorf, K., Frotscher, and Machon, assignors.)
American Lecithin Company. (See Stanley, Joseph, assignor.)
American Optical Company. (See Tillyer, Edgar D., assignor.)
American Safety Razor Corporation. (See Dalkowitz, Godfrey, assignor.)
American Steel and Wire Company of New Jersey, The. (See Cisar, W. A., and Sandmeyer, assignors.)
American Viscose Corporation. (See McDermott, Henry J., assignor.)
Ams, Max, Machine Company, The. (See Brenzinger, Julius, assignor.)
Anchor Cap & Closure Corporation. (See Gibbs, John C., assignor.)
Anderson, Maurice P., Chicago, Ill. Pneumatic tube carrier. 2,288,427; June 30.
Anderson, Robert G., Erie, Pa., assignor to General Electric Company. Railway truck. 2,288,383; June 30.
Anesi, Umberto, Chicago, Ill. Rotary machine tool. 2,288,579; June 30.
Anthony, Benjamin F., Youngstown, assignor to The Ferro Engineering Company, Cleveland, Ohio. Hot top blocking. 2,287,772; June 30.
Appleton Wire Works, Inc. (See Buchanan, William E., assignor.)
Arabia, Angelo, Bronx, N. Y. Garment pressing board. 2,288,220; June 30.
Arledter, Fritz, Cologne-Kalk, and A. Allina, Vienna, Germany, assignors to G. Staelin, Larchmont, N. Y. Solid water-in-rosin paper size. 2,288,060; June 30.
Arms, George L., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Coal washery. 2,287,854; June 30.
Arms, Merton H., and J. B. Johnson, assignors to Bryant Chucking Grinder Company, Springfield, Vt. Grinding wheel mounting and control. 2,288,508; June 30.
Armstrong Cork Company. (See Carman, Frank H., assignor.)
Arnold, Arthur B., assignor to Modine Manufacturing Company, Racine, Wis. Oil cooler and heat exchanger. 2,288,061; June 30.
Artesian Well & Equipment Co. (See Every, Elmer D., assignor.)
Arthur, John, Camborne, England. Rock and like drill. 2,288,509; June 30.
Ashlock, George W., Jr., Oakland, Calif. Fruit handling machine. 2,288,062; June 30.
Ashlock, George W., Jr., Oakland, Calif. Drink mixing device. 2,288,063; June 30.
Astle, William, Chicago, Ill. Heat exchange apparatus. 2,287,958; June 30.
Astley, William F., Cicero, assignor to Union Asbestos & Rubber Company, Chicago, Ill. Heat insulating material. 2,288,311; June 30.
Atlanta Envelope Co. (See Sammons, Benjamin R., assignor.)
Atlantic Research Associates, Inc. (See Atwood, Francis C., assignor.)
Attwell, Bobbin. (See Horn, E. A., Laucks and Attwell.)
Atwell, Harold V., Beacon, N. Y., assignor to Gasoline Products Company, Inc., Jersey City, N. J. Manufacture of motor fuel. 2,288,262; June 30.
Atwood, Francis C., Newton, assignor to Atlantic Research Associates, Inc., Newtonville, Mass. Treating proteinaceous material. 2,287,928; June 30.
Atwood & Morrill Co. (See Hose, Alexander V., assignor.)
Austin, Chester R. (See Sullivan, J. D., and Austin.)
Auto Specialties Manufacturing Company. (See Lucker, Millard B., assignor.)
Automatic Control Corporation. (See Persons, Lawrence M., assignor.)
Automatic Devices Corporation. (See Lehman, Herbert G., assignor.)
Automatic Products Company. (See McCarty, L. V., Johnson and Newman, assignors.)
B. B. Chemical Co. (See Griswold, Stanley M., assignor.)
Babcock, Earl, Chicago, Ill., assignor to The Hoover Company, North Canton, Ohio. Method of and apparatus for producing refrigeration. 2,287,855; June 30.
Babcock & Wilcox Company, The. (See Hardgrove, R. M., and Behr, assignors.)
Babler, Egon, Brighton, England. Device for protecting electrical apparatus from voltage surges. 2,288,428; June 30.
Bacon, Reginald G. R., W. Baird, B. J. Habgood, and L. B. Morgan, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Rubber-like materials. 2,287,773; June 30.
Bacon, Reginald G. R., B. J. Habgood, and R. Hill, Blackley, Manchester, England, assignors to Imperial Chemical Industries, Limited. Rubberlike materials. 2,287,774; June 30.
Baehr, Hans, Leuna, Germany. Recovery of readily volatile bases. 2,288,176; June 30.
Baehr, Hans, Ludwigshafen-on-the-Rhine, and W. Deiters, Leuna, Germany. Production of unsaturated compounds. 2,288,580; June 30.
Bailey, Charles C., Beverly Hills, Calif. Chemical gas generator. 2,287,959; June 30.
Bailey, James M., Columbus, Ohio. Flood light. 2,288,177; June 30.
Baird, William. (See Bacon, R. G. R., Baird, Habgood, and Morgan.)
Baker Perkins Incorporated. (See Pointon, John E., assignor.)

Baker, Roy E., and G. A. Thompson, Reading, Mass., assignors to The New York Air Brake Company. Release valve. 2,287,775; June 30.

Bakken, Andrew H. (See MacNeill, J. B., and Bakken.)

Ballantyne, Andrew P. (See Matasy, J. S., and Ballantyne.)

Ballard, Charles U., Inglewood, Calif. Hydraulic steering and control appliance. 2,287,960; June 30.

Banuelos, Hilario M., Mexico City, Mexico. Register device. 2,288,221; June 30.

Barnes, John A., Chappaqua, assignor to The Superheater Company, New York, N. Y. Separately fired superheater arrangement. 2,287,961; June 30.

Barrett, Charles D., and C. R. Whitehead, Altoona, Pa. Spring support for railway trucks. 2,287,963; June 30.

Barton, Joseph F., Jr. (See Hull, H. H., and Barton, Jr.)

Bassick Company, The. (See Claud-Mantle, Arthur, assignor.)

Batchelor, Harold R., Ontario, Calif., assignor to General Electric Company. Temperature responsive control device. 2,288,384; June 30.

Batdorff, Lester C. (See Dove, Joseph W., assignor.)

Bath, Cyril J. (See Green, Lee B., assignor.)

Battelle Memorial Institute. (See Sullivan, J. D., and Austin, assignors.)

Batten, Percy H., et al. (See Boestad, Gustav K. W., assignor.)

Baughn, Charles, Visalia, Calif. Headlight wiper. 2,288,429; June 30.

Bauman, Herman C., Brooklyn, assignor to J. Sterling Getchell, Inc., New York, N. Y. Scanning apparatus. 2,288,430; June 30.

Bay Chemical Company. (See Lippman, Alfred, Jr., assignor.)

Bay Chemical Company. (See Lippman, A., Jr., and Comstock, assignors.)

Bayer, Otto. (See Nadler, F., Bayer, and Hoyer.)

Beacham, Edwin B., Easton, Pa. Stocking. 2,287,962; June 30.

Beard, Charles L., Lancaster, Pa. Rivet cutter. 2,288,385; June 30.

Beatrice Creamery Company. (See Brengman, F. C., and Parker, assignors.)

Beauvais, Albina. (See Beauvais, John B., assignor.)

Beauvais, John B., Holyoke, Mass. Water heating apparatus. 2,288,431; June 30.

Becker, Leonard. (See Buchsbaum, H., and Becker.)

Beegle, Raymond E., East St. Louis, Ill. Antisplitting device. 2,287,964; June 30.

Beekhuis, Herman A., Jr., Petersburg, and E. Gaskins, Hopewell, Va., assignors to The Solvay Process Company, New York, N. Y. Purification of soda ash solutions. 2,287,856; June 30.

Behr, Robert K. (See Hardgrove, R. M., and Behr.)

Behrens, Martin. (See Löwenherz, O., and Behrens.)

Belaef, Nikolai, assignor to Mason-Neilan Regulator Company, Boston, Mass. Time cycle control mechanism. 2,288,064; June 30.

Belden, Charles W., assignor to Steiner Sales Company, Chicago, Ill. Manicuring and article for same. 2,288,386; June 30.

Bell Punch Company Limited, The. (See Stanton, T. L., assignor.)

Bell Telephone Laboratories, Incorporated. (See Browne, Bennie O., assignor.)

Bell Telephone Laboratories, Incorporated. (See Ferrell, Enoch B., assignor.)

Bell Telephone Laboratories, Incorporated. (See Harrison, Henry C., assignor.)

Bell Telephone Laboratories, Incorporated. (See Holden, William H. T., assignor.)

Bell Telephone Laboratories, Incorporated. (See Johnson, Kenneth S., assignor.)

Bell Telephone Laboratories, Incorporated. (See Murphy, Paul B., assignor.)

Bell Telephone Laboratories, Incorporated. (See Pomeroy, Allen F., assignor.)

Bell Telephone Laboratories, Incorporated. (See Shepherd, William G., assignor.)

Bell Telephone Laboratories, Incorporated. (See Tillman, R. J., and Zinn, assignors.)

Belmont Radio Corporation. (See Marholz, R. C., and Plensler, assignors.)

Bendix Home Appliances, Inc. (See Oliver, Wallace F., assignor.)

Bendix Home Appliances, Inc. (See Scott, Don O., assignor.)

Benfield, John D., Grosse Pointe Woods, Mich. Connector. 2,287,857; June 30.

Bennett, Arthur N. (See Nees, A. R., Bennett, and Hungerford.)

Benotti, Joseph, Weston, assignor to E. A. Brown, Boston, Mass. Digestion tube. 2,288,065; June 30.

Berchtold, Wallace W. (See Bratz, O. J., and Berchtold.)

Berkman, Herbert A., Chicago, Ill., assignor to Zim Manufacturing Company. Can opener. 2,288,266; June 30.

Berry, Theodore M., Schenectady, N. Y., assignor to General Electric Company. Apparatus for straightening woven material. 2,288,387; June 30.

Bespalow, Eugene F., assignor to Choctaw Culvert & Machinery Company, Memphis, Tenn. Apparatus for manufacturing concrete pipes. 2,287,858; June 30.

Bestian, Herbert, Frankfort-on-the-Main-Unterliederbach, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Preparing acylated halogen alkyl amines. 2,288,178; June 30.

Bevington, John E. (See Palumbo, Vincent, assignor.)

Biggs, Llewellyn, Leonia, N. J., assignor to American Can Company, New York, N. Y. Sealing moisture in sheet fiber material. 2,287,776; June 30.

Billing, Wyly M., assignor to Hercules Powder Company, Wilmington, Del. Textile finishing. 2,288,432; June 30.

Bingham Stamping Company, The. (See McCarthy, Charles S., assignor.)

Birkhofer, John J., Union, and E. J. Heizer, West Caldwell, assignors to The Kroydon Company, Maplewood, N. J. Arrow shaft construction. 2,288,562; June 30.

Birr, Rudolph G. (See Steiner, F. G., and Birr.)

Bjorksten, Johan, assignor to Ditto, Incorporated, Chicago, Ill. Hectograph blanket. 2,288,152; June 30.

Black, Eugene C. (See MacKinnon, Russell H., assignor.)

Blankenbuehler, John H., Edgewood, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Motor-generator set and generator. 2,287,929; June 30.

Bloom, George H., New York, N. Y. Multiple index. 2,288,066; June 30.

Board of Trustees of The Leland Stanford Junior University. (See Varian, R. H., and Packard, assignors.)

Bockstein, Herman S., Brooklyn, N. Y. Coin receptacle. 2,288,222; June 30.

Boeing Aircraft Company. (See Ostlund, A. I., and Minshull, assignors.)

Boestad, Gustav K. W., Lidingo, Sweden, assignor by mesne assignments to J. C. Marble, L. M. Merrill and P. H. Batten, trustees. Regenerative heat exchanger. 2,287,777; June 30.

Boetcher, Hans N., and J. W. Hudnall, Jr., assignors to Consolidated Gas Electric Light and Power Company of Baltimore. Baltimore, Md. Welding joint. 2,288,433; June 30.

Bogoslowsky, Boris, New York, N. Y. Ball winding machine. 2,287,859; June 30.

Bogoslowsky, Boris, New York, N. Y. Winding machine. 2,287,860; June 30.

Bohn Aluminum & Brass Corporation. (See Moynahan, R. D. B., and Pilcher, assignors.)

Boileau, Arthur H., Cedar Rapids, Iowa, assignor to Cherry-Burrell Corporation, Wilmington, Del. Ice cream freezer. 2,288,067; June 30.

Bolten, John, Andover, Mass., and R. H. Goldbaum, Plaistow, N. H. Transparent or translucent shoe heel. 2,288,388; June 30.

Bomyer, Leonard, assignor to Ronald Trist & Co. Limited, Slough, England. Boiler control apparatus. 2,288,223; June 30.

Borberg, Willy, Astoria, Long Island, assignor to International Projector Corporation, New York, N. Y. Method and apparatus for the operation of photoelectric cells. 2,287,965; June 30.

Borgfeldt, Geo., Corporation. (See Rothschild, Julius, assignor.)

Boston Woven Hose & Rubber Company. (See Davis, Carroll C., assignor.)

Boston Woven Hose & Rubber Company. (See Walton, James C., assignor.)

Bostwick, Henry C., Coventry Township, Summit County, assignor to The Akron Standard Mold Company, Akron, Ohio. Vulcanizer packing. 2,288,263; June 30.

Boughton, Roger C., San Francisco, Calif. Pipe coupling. 2,288,225; June 30.

Bour, Robert C., assignor to Ditto, Incorporated, Chicago, Ill. Coated sheet and preparing same. 2,288,389; June 30.

Bousquet, L'Roche G., Baldwin, and M. J. Brooks, assignors to General Chemical Company, New York, N. Y. Treatment of titanium solutions. 2,287,861; June 30.

Bower Roller Bearing Company. (See Ortegren, H. A., and Howenstine, assignors.)

Bowman, Philip I. (See Burton, J., and Bowman.)

Boyer, Robert, Paris, M. Marin, Neuilly-sur-Seine, and M. Gaestel, Arcueil, assignors to Société "Goodrich" S. A., Bois-Colombes (Seine), France. Elastic wheel. 2,288,581; June 30.

Bradford, Arthur J. (See Ditty, A. V., and Bradford.)

Bradley, William E., Northampton, assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Automatic gain control system. 2,288,434; June 30.

Brandt, David G., Westfield, N. J., assignor to Cities Service Oil Company, New York, N. Y. Dewaxing mineral oils. 2,287,966; June 30.

Brannon, Herbert E., Detroit, Mich. Temperature control. 2,288,510; June 30.

Bratz, Otto J., Adrian, Mich., and W. W. Berchtold, York, Pa., assignors to American Chain & Cable Company, Inc., Bridgeport, Conn. Automobile lift. 2,288,511; June 30.

Brebeck, Charles, Herkimer, N. Y. Crank shaft manufacture. 2,288,068; June 30.

Breckenridge, Frank, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Wringer. 2,287,967; June 30.

Breerwood, Charles H., Narberth, assignor to Valley Forge Cement Company, Catasauqua, Pa. Cement and cement manufacture. 2,288,179; June 30.

Brengman, Fred C., Elmhurst, and M. E. Parker, Barrington, assignors to Beatrice Creamery Company, Chicago, Ill. Apparatus for measuring pH. 2,288,180; June 30.

Brenzinger, Julius, Fairfield, assignor to The Max Ams Machine Company, Bridgeport, Conn. Lining machine. 2,288,224; June 30.

Brian, Joseph, Montreal, Quebec, Canada, assignor to Radio Corporation of America. Transmitting system. 2,287,862; June 30.

Brooks, Benjamin L., Lynchburg, Va. Match book. 2,288,342; June 30.

Brooks, Benjamin L., Lynchburg, Va. Match book and holder. 2,288,343; June 30.

Brooks, Benjamin T., Old Greenwich, Conn., assignor to Standard Alcohol Company. Production of ketones. 2,288,344; June 30.

Brooks, Maxwell J. (See Bousquet, L. G., and Brooks.)

Brooks, Wendell R. (See Mullen, J. F., and Brooks.)

Broulhiet, Georges, Paris France. Means to remotely control devices. 2,287,968; June 30.

Broverman, Michael, Pittsfield, Mass., assignor to General Electric Company. Electrical connector. 2,288,390; June 30.

Brown, Ethan A. (See Benotti, Joseph, assignor.)

Brown, Ray W., assignor to The General Tire & Rubber Company, Akron, Ohio. Brake system. 2,287,969; June 30.

Brown, Willet H. (See Lubcke, H. R., Brown, and Klein.)

Brown, William R., Chicago, Ill., assignor to W. R. Brown Corporation, Chicago, Ill. Spray tank. 2,288,312; June 30.

Brown, W. R., Corporation. (See Brown, William R., assignor.)

Browne and Sharpe Manufacturing Company. (See Rich, C. A., and Twamley, assignors.)

Browne, Bennie O., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Remote control apparatus. 2,288,435; June 30.

Browning, Raymond E., Verdun, Quebec, Canada. Crusher. 2,288,069; June 30.

Bruce, E. L., Co. (See Partee, W. W., and Gray, assignors.)

Bryan, Lloyd, Los Angeles, assignor to Standard Oil Company of California, San Francisco, Calif. Pipe coating apparatus. 2,287,828; June 30.

Bryan, Lloyd, Los Angeles, assignor to Standard Oil Company of California, San Francisco, Calif. Liquid metering device. 2,287,829; June 30.

Bryant Chucking Grinder Company. (See Arms, M. H., and Johnson, assignors.)

Buchanan, William E., assignor to Appleton Wire Works, Inc., Appleton, Wis. Multiple strand Fourdrinier wire. 2,288,512; June 30.

Buchsbaum, Herbert, and L. Becker, assignors to S. Buchsbaum & Company, Chicago, Ill. Article of wearing apparel, accessory and the like. 2,288,313; June 30.

Buchsbaum, S., & Company. (See Buchsbaum, H., and Becker, assignors.)

Buckeye Steel Castings Company, The. (See Wolfe, Harry H., assignor.)

Buckingham, William D. (See Nelson, D. H., and Buckingham.)

Bucklen-Bear Laboratories, Inc. (See Hedin, Uno C., assignor.)

Buckley, William C., Reynolds, N. Dak. Level. 2,287,863; June 30.

Budd, Edward G., Manufacturing Company. (See Fall, Wilfrid, assignor.)

Budd, Edward G., Manufacturing Company. (See Heitman, C. E., Jr., and Laig, assignors.)

Budd, Edward G., Manufacturing Company. (See Mungen, Theodore, assignor.)

Budd, Edward G., Manufacturing Company. (See Trautvetter, George, assignor.)

Budd, Edward G., Manufacturing Company. (See Ulrich, Theodore, assignor.)

Budd, Edward G., Manufacturing Company. (See Weightman, William A., assignor.)

Budd Induction Heating, Inc. (See Somes, Howard E., assignor.)

Bulldog Electric Products Company. (See Fisher, L. E., and Togesen, assignors.)

Bulldog Electric Products Company. (See Frank, William H., assignor.)

Bullen, Charles V. (See Moyer, E. E., and Bullen.)

Bullock, Edward W., assignor to Gleason Works, Rochester, N. Y. Dressing mechanism. 2,288,153; June 30.

Burby, Philip E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Work-positioning means for shoe machines. 2,287,970; June 30.

Burgdorf, Kurt, H. Frotscher, and H. Machon, Chemnitz, Germany, assignors to American Hyalsol Corporation, Wilmington, Del. Manufacturing ether alcohols. 2,288,181; June 30.

Burndy Engineering Company. (See Hegenauer, Charles J., assignor.)

Burnham, James I., assignor to Callaway Mills, La Grange, Ga. Yarn treating apparatus. 2,287,765; June 30.

Burroughs Adding Machine Company. (See Racz, Ernest, assignor.)

Burton, John, and P. I. Bowman, Passaic, N. J., assignors to Heyden Chemical Corporation, New York, N. Y. Beta oxy naphthoic acid and preparing the same. 2,287,864; June 30.

Busch-Sulzer Bros.-Diesel Engine Company. (See Wohanka, George J., assignor.)

Butland, Ralph A., Washington, D. C. Sewing kit. 2,287,790; June 30.

Byrd, William, Jr., Princeton, N. J. Nonchoking magnetic separator. 2,288,264; June 30.

Byrkit, Gordon D. (See Lincoln, B. H., Byrkit, and Steiner.)

Byrnes, Irving F., Riverdale, N. Y., assignor to Radio Corporation of America. Automatic keying device. 2,288,265; June 30.

Cahan, Alvin M., New York, N. Y. Resuscitating device. 2,288,436; June 30.

California Fruit Growers Exchange. (See Wilson, Clarence W., assignor.)

Callaway Mills. (See Burnham, James I., assignor.)

Canac, Louis H. F., and E. A. M. A. Ségol, Toulon, France. Alloy. 2,288,513; June 30.

Canter, Ralph, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Plastic material. 2,287,930; June 30.

Cardox Corporation. (See Geertz, E., and Getz, assignors.)

Carleton, Charles A., Minneapolis, Minn. Combined ring and pin. 2,287,865; June 30.

Carlisle, Charles C., Independence, Kans. Deep well pumping mechanism. 2,287,779; June 30.

Carman, Frank H., assignor to Armstrong Cork Company, Lancaster, Pa. Long draft apron. 2,287,780; June 30.

Carman, Frank H., assignor to Armstrong Cork Company, Lancaster, Pa. Making long draft aprons. 2,288,391; June 30.

Carnes, William T., Kansas City, Mo. Artificial arm and hand. 2,287,781; June 30.

Carney, Clifford R., Dearborn, Mich. Ice tray. 2,287,971; June 30.

Carney, Clifford R., Dearborn, Mich. Ice tray. 2,287,972; June 30.

Carney, Clifford R., Dearborn, Mich. Ice tray. 2,287,973; June 30.

Caroselli, Hellmut, Berlin-Adlershof, Germany. Cooling system for internal combustion engines. 2,288,514; June 30.

Carpenter, Morris T., assignor to Standard Oil Company, Chicago, Ill. Hydrocarbon conversion process. 2,288,070; June 30.

Carroll, Burt H., and C. F. H. Allen, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic emulsion. 2,288,226; June 30.

Carter Carburetor Corporation. (See Flint, Floyd F., assignor.)

Celanese Corporation of America. (See Elvin, W. J., and Stearn, assignors.)

Celanese Corporation of America. (See Ewing, Henry, assignor.)

Celanese Corporation of America. (See Martin, Herbert E., assignor.)

Challis, Kenneth J. (See Kendall, J. D., and Challis.)

Challis, William S., assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England. Iron-cored coil. 2,288,120; June 30.

Chase Brass & Copper Co. Incorporated. (See Shoemaker, Richard W., assignor.)

Cheatham, F. C., et al. (See Fitz, Charles L., assignor.)

Cheesman, Raymond J., Morgantown, W. Va. Fruit press. 2,288,393; June 30.

Chemical Foundation, Incorporated, The. (See Christensen, Leo M., assignor.)

Chemical Marketing Company Inc. (See Schulz, Hermann, assignor.)

Chemical Marketing Company. (See Wagner, Hans, assignor.)

Cherry-Burrell Corporation. (See Boileau, Arthur H., assignor.)

Choctaw Culvert & Machinery Company. (See Bespalow, Eugene F., assignor.)

Christensen, Leo M., Atchison, Kans., assignor to The Chemical Foundation, Incorporated. Improving yeast. 2,288,314; June 30.

Christmann, Friedrich. (See Pier, M., and Christmann.)

Cisar, William A., North Chicago, and W. K. Sandmeyer, Waukegan, Ill., assignors to The American Steel and Wire Company of New Jersey. Protector for eave trough. 2,288,121; June 30.

Cities Service Oil Company. (See Brandt, David G., assignor.)

Cities Service Oil Company. (See Nichols, Paul B., assignor.)

Clapp, Melville, Baldwin, assignor to E. Frederics, Inc., Long Island City, N. Y. Hair drier. 2,288,227; June 30.

Clark Equipment Company. (See Gettig, J. H., and Spatta, assignors.)
Clark Equipment Company. (See Wilfred, Alfred O., assignor.)
Clarke, Henry B. (See Dykeman, R. G., and Clarke.)
Claud-Mantle, Arthur, Trumbull, assignor to The Bassick Company, Bridgeport, Conn. Assist cord assembly. 2,287,782; June 30.
Claud-Mantle, Arthur, Trumbull, assignor to The Bassick Company, Bridgeport, Conn. Assist cord assembly. 2,287,783; June 30.
Clausen, De Witt. (See Yeomans, L. I., and Clausen.)
Clemison, Lew, trustee, et al. (See Wessel, Carl, assignor.)
Cobb, James F., Portland, Oreg., assignor to The Moore Dry Kiln Company of Oregon. Dry kiln and kiln drying. 2,288,154; June 30.
Cochran, William S., Evanston, and R. A. Williams, assignors to Ditto, Incorporated, Chicago, Ill. Strip holding device for duplicating apparatus. 2,288,267; June 30.
Coe, Charles F. (See Pihl, P. E., and Coe.)
Cohen, Morris, Washington, D. C. Garment separator with size indicator. 2,288,071; June 30.
Cohen, Nathan B., Minneapolis, Minn. Heating apparatus. 2,287,974; June 30.
Cole, Allen T. (See Tartaron, F. X., Cole and Duke.)
Coles, Walter H., and B. J. Nelson, assignors to The Skinner Irrigation Company, Troy, Ohio. Sprinkling apparatus. 2,288,394; June 30.
Collins, Howard W. Newark, Ohio, assignor, by mesne assignments, to Owens-Corning Fiberglas Corporation. Method and apparatus for making bonded fibrous products. 2,288,072; June 30.
Collins, John O. (See Hulse, S. H., and Collins.)
Collins, Neil R., San Francisco, and A. E. Esterberg, Menlo Park, assignors to Marine Magnesium Products Corporation, South San Francisco, Calif. Liquid treatment apparatus. 2,287,975; June 30.
Columbus Auto Parts Company, The. (See Flumerfelt, William A., assignor.)
Combustion Engineering Company. (See Lloyd, William, assignor.)
Commercial Solvents Corporation. (See Hoover, Kenneth H., assignor.)
Compo Shoe Machinery Corporation. (See Crandell, Ervin L., assignor.)
Comstock, Rock L. (See Lippman, A., Jr., and Comstock.)
Condon, Robert S. (See Hatch, A. G., and Condon.)
Conery, William J., and C. H. Newmier, assignors to The F. E. Myers & Bro. Co., Ashland, Ohio. Air charger for storage tanks. 2,288,437; June 30.
Consolidated Gas Electric Light and Power Company of Baltimore. (See Boetcher, H. N., and Hudnull, Jr., assignors.)
Consolidated Packaging Machinery Corporation. (See Allen, H. G., and Saunders, assignors.)
Consolidated Water Power and Paper Company. (See Richmond, H. B., Dickerman and Thiele, assignor.)
Continental Can Company. (See Pearson, Paul E., assignor.)
Corell, Martin. (See Kranzlein, G., and Corell.)
Corson, Ben B., and G. S. Monroe, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,287,931; June 30.
Courcier, Richard J., Sr., New Orleans, La. Ignition system. 2,288,515; June 30.
Cox, Irvin W., West Allis, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Metallic compositions for electrical contacts and the like. 2,288,122; June 30.
Coy, Joseph A., Tulsa, Okla. Heat exchanger tube sheet connection. 2,288,123; June 30.
Crandell, Ervin L., Wellesley, assignor to Compo Shoe Machinery Corporation, Boston, Mass. Electrostatic heating system. 2,288,268; June 30.
Crandell, Ervin L., Wellesley, assignor to Compo Shoe Machinery Corporation, Boston, Mass. Electrostatic heating apparatus. 2,288,269; June 30.
Craymer, Henry J. (See Davis, N. E., Robb, and Craymer.)
Creighton, Thomas A., Long Beach, assignor of one-half to M. H. Wright, Los Angeles, Calif. Drilling string protector. 2,288,124; June 30.
Criswell, Carmer, assignor to General Motors Corporation, Detroit, Mich. Vibration damper. 2,287,866; June 30.
Cronan, Mark D. (See Titcomb, Albert C. and Cronan.)
Croskey, Carl D., and D. H. Rowland, assignors to Locke Insulator Corporation, Baltimore, Md. Insulator 2,287,976; June 30.
Crouse-Hinds Company. (See Hardage, Clarence A., assignor.)
Crouse-Hinds Company. (See Jeffers, Walter M., assignor.)
Crouse-Hinds Company. (See White, Walter O., assignor.)
Cunningham, Lewis L., assignor to Perfex Corporation, Milwaukee, Wis. Control device. 2,287,784; June 30.
Curtin-Howe Corporation. (See Curtin, Leo P., assignor.)
Curtin, Leo P., Cranbury, N. J., assignor, by mesne assignments to Curtin-Howe Corporation, New York, N. Y. Container manufacture. 2,288,182; June 30.
Curtis, John C., and E. G. Gartin, Claremont, N. H., assignors to Sullivan Machinery Company. Rock drilling apparatus. 2,288,544; June 30.
Cushman, Lee H., South Hamilton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe treating apparatus. 2,287,977; June 30.
Cutler-Hammer, Inc. (See Cox, Irvin W., assignor.)
Cutler-Hammer, Inc. (See Feldhausen, C. P., and Laabs, assignors.)
Cutler-Hammer, Inc. (See Harwood, P. B., and Newman, assignors.)
Dach, Max, Flushing, N. Y. Brake drum. 2,288,438; June 30.
Dahm, Einar A., Eskilstuna, Sweden. Fixture. 2,288,439; June 30.
Daiger, George P., Canton, assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,287,867; June 30.
Daily, Robert A., Muncie, Ind., assignor to General Motors Corporation, Detroit, Mich. Manufacture of storage batteries. 2,287,868; June 30.
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Interpolymerization product of a diallyl ether and an unsaturated alkyd resin. 2,288,315; June 30.
Dalkowitz, Godfrey, assignor to American Safety Razor Corporation, Brooklyn, N. Y. Illuminating motor tool. 2,288,183; June 30.
Danforth, Joseph F. (See Thomas, C. L., and Danforth.)
Davis, Carroll C., Belmont, assignor to Boston Woven Hose & Rubber Company, Cambridge, Mass. Rubber flooring or sheeting. 2,287,766; June 30.
Davis, Garland H. B., Hillside, N. J., assignor to Standard Oil Development Company. Condensation product of aryl amine and long chain aliphatic compound. 2,288,392; June 30.
Davis, Herbert L., and E. A. Reineck, Appleton, Wis., assignors to Ditto, Incorporated, Chicago, Ill. Printing plate having a water repellent surface and preparing same. 2,288,073; June 30.
Davis, Norman E., F. G. Robb, and H. J. Craymer, Chelmsford, England, assignors to Radio Corporation of America. Inductance. 2,288,516; June 30.
Davison Chemical Corporation, The. (See Shoeld, Mark, assignor.)
Day, J. H., Company, The. (See Mason, Erwin S., assignor.)
Day, J. H., Company, The. (See Shiff, Sigmund, assignor.)
Dean, William T., Gary, Ind. Regenerative furnace. 2,287,785; June 30.
De Biasse, Tony, Madison, N. J. Device for repairing automotive engines. 2,288,228; June 30.
Deiters, Wilhelm. (See Baehr, H., and Deiters.)
Derryberry, Mathew J. (See Touchstone, B. W., assignor.)
Dersch, Fritz, Binghamton, and N. Heimbach, Johnson City, assignors to General Aniline & Film Corporation, New York, N. Y. Yellow fog inhibitor. 2,288,586; June 30.
De Smet, Edgard C., Toledo, assignor, by mesne assignments, to Reconstruction Finance Corporation, Cleveland, Ohio. Striker plate. 2,287,978; June 30.
Deutsche Gold-und Silber-Scheideanstalt vormals Roessler. (See Walter, H., and Schulz, assignors.)
De Vry Corporation. (See De Vry, H. A., and Nemeth, assignors.)
De Vry, Herman A., and O. R. Nemeth, assignors to De Vry Corporation, Chicago, Ill. Projector or the like. 2,288,345; June 30.
Diamond, Harry, Washington, D. C., and W. S. Hinman, Jr., Falls Church, Va., assignors to the Government of the United States of America, as represented by the Secretary of Commerce. Automatic weather station. 2,287,786; June 30.
Dick, George M., Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, New York, N. Y. Indicating device. 2,288,229; June 30.
Dickerman, Gilbert K. (See Richmond, H. B., Dickerman and Thiele.)
Dickey, Roy N., assignor to Meets-A-Need Manufacturing Company, Seattle, Wash. Thermostatic switch. 2,287,787; June 30.
Dickey, William P., Ada, Okla. Emergency apparatus for ships. 2,288,271; June 30.
Dickhout, Richard J., Detroit, Mich. Building brick or block. 2,287,979; June 30.
Diekhoff, Earl F., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control system. 2,287,788; June 30.
Di Giulio, Fiore, et al. (See Gea, James, assignor.)
Di Giulio, Palmer, et al. (See Gea, James, assignor.)
Diroff, Alton J. (See Pelcher, W. J., and Diroff.)
Ditchfield, Frank, assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Car door. 2,288,155; June 30.
Ditto, Incorporated. (See Bjorksten, Johan, assignor.)
Ditto, Incorporated. (See Bour, Robert C., assignor.)
Ditto, Incorporated. (See Cochran, W. S., and Williams, assignors.)
Ditto, Incorporated. (See Davis, H. L., and Reineck, assignors.)
Ditto, Incorporated. (See Kokay, Stephen, assignor.)
Ditto, Incorporated. (See Marchev, Alfred, assignor.)
Ditto, Incorporated. (See Williams, Robert A., assignor.)

Ditty, Allan V., Detroit, and A. J. Bradford, Grosse Pointe Park, assignors to Motion Picture Engineering Co., Detroit, Mich. Photographic projection apparatus. 2,288,074; June 30.
Dobbs, F. H., et al. (See Fitz, Charles L., assignor.)
Dodge, Kern. (See Odor, R. K., and Dodge.)
Dodge, Ralph L., assignor to New Process Gear Corporation, Syracuse, N. Y. Bearing setting instrument. 2,287,767; June 30.
Dodson, Howard W., and D. G. Neuman, Philadelphia, Pa. Making stainless-clad sheet-steel. 2,288,184; June 30.
Dole Valve Company, The. (See Lund, James K., assignor.)
Donaldson, Martha, et al. (See Manning, John R., assignor.)
Dorfman, Hiller D., Forest Hills, and G. J. Freese, East McKeesport, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit breaker. 2,288,270; June 30.
Douthitt, Frank W., Ortonville, Minn. Conveyer. 2,288,125; June 30.
Dove, Joseph W., Port Huron, assignor of 40% to L. C. Batdorff, Detroit, Mich. Hair dressing instrument. 2,288,156; June 30.
Dow Chemical Company, The. (See Smith, F. B., and Hansen, assignors.)
Downy Products Company. (See Kingman, Barclay A., assignor.)
Drane, Phillips B., Tulsa, Okla. Gauge and thief hatch. 2,288,230; June 30.
Drane, Phillips B., Tulsa, Okla. Diverting valve float controlled means. 2,288,231; June 30.
Draney, Charles T., Los Angeles, Calif. Converter furnace. 2,288,272; June 30.
Driescher, Hans. (See Geller, H., and Driescher.)
Driscoll, Edward A., Jamaica, N. Y. Electric heating pad. 2,288,232; June 30.
Drollet, William S., Sacramento, Calif., assignor to American Can Company, New York, N. Y. Dispensing device. 2,287,789; June 30.
Dry-Zero Corporation. (See Lindsay, H. B., and Easter, assignors.)
Drying & Concentrating Company. (See Hall, Joseph M., assignor.)
Dubilier, William, New York, N. Y. Thermostatic switch. 2,288,517; June 30.
Duke, James B. (See Tartaron, F. X., Cole, and Duke.)
Dunleavey, Frank S., assignor to The Magnavox Company, Inc., Fort Wayne, Ind. Dry electrolytic capacitor and spacing means therefor. 2,288,157; June 30.
Dunn, Clarence L., and R. B. McConaughy, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Recovery of pure aromatics. 2,288,126; June 30.
Dunner, Max, Brooklyn, assignor to W. Finkelstein, New York, N. Y., doing business as Eastern Trading Company. Hair-curling device. 2,288,346; June 30.
Du Pont, E. I., de Nemours & Company. (See Eckstein, George R., assignor.)
Du Pont, E. I., de Nemours & Company. (See Gowing, D. M., and Sanders, assignors.)
Du Pont, E. I., de Nemours & Company. (See Hoffman, Raymond A., assignor.)
Du Pont, E. I., de Nemours & Company. (See Hopff, H., Weickmann, and Hanns Ufer, assignors.)
Du Pont, E. I., de Nemours & Company. (See Kepfer, Raymond J., assignor.)
Dur-O-Lite Pencil Company. (See Lynn, John P., assignor.)
Dyer, John B., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Engine starter control apparatus. 2,287,791; June 30.
Dykeman, Reuben G., Dayton, Ohio, and H. B. Clarke, Roslyn, N. Y. Viscosity-controlled unit. 2,288,127; June 30.
Easter, Norman R. (See Lindsay, H. B., and Easter.)
Eastern Trading Company. (See Dunner, Max.)
Eastman Kodak Company. (See Carrol, B. H., and Allen, assignors.)
Eastman Kodak Company. (See Hull, David C., assignor.)
Ebelhare, William H. (See Reyburn, J. R., and Ebelhare.)
Eckstein, George R., Buffalo, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Roller having surface of sponge rubber knobs. 2,287,768; June 30.
Edison, Thomas A., Incorporated. (See Huenlich, Charles, assignor.)
Edwards, Milon G., and F. M. McKinley, Joplin, Mo. Rock drill. 2,288,075; June 30.
Ehrman, Herbert H., Canton, Ohio, assignor to York Ice Machinery Corporation, York, Pa. Pressure tank for milk. 2,287,869; June 30.
Electric & Musical Industries Limited. (See Challis, William S., assignor.)
Electric Slug Rejector and Manufacturing Corporation. (See Mullen, J. F., and Brooks, assignors.)
Electrical Engineers Equipment Company. (See Hoye, Peder B., assignor.)
Electro Metallurgical Company. (See Kroll, William, assignor.)
Ellinwood, Herman R., assignor to Adel Precision Products Corp., Burbank, Calif. Conduit supporting block. 2,288,158; June 30.
Ellis, Carleton, Montclair, N. J., assignor to Standard Oil Development Company. Cracking with water soluble catalyst. 2,288,395; June 30.
Elvin, William J., Frostburg, and W. T. Stearn, Cumberland, Md., assignor to Celanese Corporation of America. Package. 2,287,870; June 30.
Enghauser, Winford L., Cincinnati, assignor to The Production Plating Works, Inc., Lebanon, Ohio. Forming heating coils. 2,288,273; June 30.
Erling, Ralph, Cranford, assignor to Lidgerwood Manufacturing Company, Elizabeth, N. J. Steering gear for ships. 2,288,076; June 30.
Ernst, Earl, administrator. (See Ernst, Fredrick J.)
Ernst, Fredrick J., Yakima, Wash., deceased, E. Ernst, administrator. Sacking device. 2,281,159; June 30.
Erz, Raymond A., Detroit, Mich. Etching machine. 2,288,128; June 30.
Esterberg, Albin E. (See Collins, N. R., and Esterberg.)
Evans, Thomas M., assignor to H. K. Porter Company, Inc., Pittsburgh, Pa. Mixing apparatus. 2,288,440; June 30.
Everest, J. H., et al. (See Odor, R. K., and Dodge, assignors.)
Every, Elmer D., Rochelle Park, N. J., deceased, S. F. Every, V. F. Every and Peoples Trust Company of Bergen County, executors, assignors, by mesne assignments, to Artesian Well & Equipment Co., Inc., Rochelle Park, N. J. Apparatus for increasing the flow of water in artesian wells. 2,288,233; June 30.
Every, Sara F., executor, et al. (See Every, Elmer D.)
Every, Virgil F., executor, et al. (See Every, Elmer D.)
Ewaldson, Waldemar C., Millington, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Rotatable unit. 2,288,274; June 30.
Ewing, Frederick J., Pasadena, Calif. Refining animal and vegetable oils. 2,288,441; June 30.
Ewing, Henry, Spondon, near Derby, England, assignor to Celanese Corporation of America. Production of effects on artificial materials. 2,287,932; June 30.
Fabry, Willis W., South Pasadena, Calif. Spring contact device for window sashes. 2,288,077; June 30.
Fairbanks, Harlan B., Yakima, Wash. Sand point. 2,288,185; June 30.
Fall, Wilfrid, Upper Darby, assignor to E. G. Budd Manufacturing Company, Philadelphia, Pa. Top construction for tables or the like. 2,288,563; June 30.
Farnsworth Television and Radio Corporation. (See Salinger, Hans, assignor.)
Fay, Thomas H., Willoughby, assignor to Gridiron Steel Company, Cleveland, Ohio. Metal table top. 2,288,234; June 30.
Feldhausen, Cyril P., Wauwatosa, and E. H. Laabs, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Control apparatus for printing equipment. 2,288,129; June 30.
Felton, George F., Millers Falls, Mass. Device for clamping fishing rods and the like. 2,288,442; June 30.
Felton, George F., Millers Falls, Mass. Holding device. 2,288,443; June 30.
Fernholz, Erhard. (See Wallis, E. S., and Fernholz.)
Fero, Claude L., Malden, Mass. Rail joint splice. 2,287,871; June 30.
Ferrell, Enoch B., Oakhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Modulating system. 2,288,275; June 30.
Ferro Engineering Company, The. (See Anthony, Benjamin F., assignor.)
Fibre Can Machinery Corporation. (See Hatch, A. G. and Condon, assignors.)
Findlay, Alexander C., Flint, Mich. Door locking mechanism. 2,287,980; June 30.
Fingado, Gustav A., Hohokus, and H. Ludwig, Cliffside, N. J., assignors to Julius Schmid Inc., New York, N. Y. Machine for treating thin rubber articles. 2,288,444; June 30.
Finkelstein, William. (See Dunner, Max, assignor.)
Fisher, Lawrence E., and A. A. Togesen, assignors to Bulldog Electric Products Company, Detroit, Mich. Electrical distribution system. 2,288,078; June 30.
Fisher Scientific Company. (See Warren, William B., assignor.)
Fitz, Charles L., assignor of one-third to F. H. Dobbs and one-third to F. C. Cheatham, Three Lakes, Wis. Motion picture apparatus. 2,288,079; June 30.
Fleck, Harold R. (See Krupa, Victor C.)
Fleischhauer, Richard and A. Müller, Frankfurt-on-the-Main-Fechenheim, Germany, assignors to General Aniline & Film Corporation. Azo dyestuffs capable of being metallized. 2,288,518; June 30.
Flint, Floyd F., assignor to Carter Carburetor Corporation, St. Louis, Mo. Fuel feed system. 2,288,347; June 30.
Flumerfelt, William A., assignor to The Columbus Auto Parts Company, Columbus, Ohio. Joint assembly. 2,288,160; June 30.
Focha, William F., Westfield, N. J., assignor to Wailes, Dove-Hermiston Corporation. Apparatus for coating pipe. 2,288,316; June 30.
Foley, Andrew A., Camden, N. J., assignor to International Resistance Company, Philadelphia, Pa. Adjustable band resistor. 2,288,235; June 30.

Forman, Morris, Brooklyn, N. Y. Preparing drying sticks for sausage casings. 2,288,080; June 30.
Forney, James A., Los Angeles, Calif. Upholstery cushion. 2,288,130; June 30.
Foster, John W., Ridgewood, N. J., assignor to Tingue, Brown & Co. Printer's blanket. 2,287,872; June 30.
Foster, Warren D., Washington Township, Bergen County, assignor to Kinatome Patents Corporation, Ridgewood, N. J. Apparatus for controlling the feeding of film. 2,287,792; June 30.
Frank, William H., assignor to Bulldog Electric Products Company, Detroit, Mich. Circuit breaker. 2,288,081; June 30.
Frederick, E., Inc. (See Clapp, Melville, assignor.)
Freeport Sulphur Company. (See Mason, D. B., and Peterson, assignors.)
Freese, Gerald J. (See Dorfman, H. D., and Freese.)
French, George F., assignor to R. French, Manchester, England. Curtain heading tape. 2,288,397; June 30.
French, Roger. (See French, George F., assignor.)
Fridolin, Glass. (See Kreidl, L., and Nosicka, assignors.)
Friedl, George, Jr., Fanwood, N. J., assignor to International Projector Corporation, New York, N. Y. Method and apparatus for supplying current to exciter lamps. 2,287,981; June 30.
Frizell, Absalom Guy, Greenfield, Iowa. Stock marker. 2,288,445; June 30.
Frotscher, Herbert. (See Burgdorf, K., Frotscher and Machon.)
Frudden, Conrad E., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Oil filter. 2,287,982; June 30.
Funk, Russell A., Pleasant Ridge, Mich. Welding equipment. 2,288,348; June 30.
Furry, William C. (See Hill, W. J., and Furry.)
Fyans, Albert F., Fall River, Mass. Mill box and the like. 2,288,396; June 30.
Gaebel, Alfred, and H. F. Schwartz, Berlin, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Electromagnetic relay. 2,288,186; June 30.
Gaestel, Michel. (See Boyer, R., Marin, and Gaestel.)
Gallmard, Eugene P., Chicago, and R. C. Johnson, Moline, Ill. Dictation machine control means. 2,288,082; June 30.
Gainey, Percy, Linden, N. C. Oil burning apparatus. 2,288,083; June 30.
Gales, Richard J., West Caldwell, N. J., assignor to Orange Roller Bearing Co. Inc. Making cages for roller bearings. 2,288,564; June 30.
Galloway, Clarence T. (See Wildhaber, E., and Galloway.)
Gandl, Johannes, Chicago, Ill. Signaling apparatus. 2,288,084; June 30.
Gartin, Elmer G. (See Curtis, J. C., and Gartin.)
Gaskins, Ernest. (See Beekhuis, H. A., Jr., and Gaskins.)
Gasoline Products Company. (See Atwell, Harold V. assignor.)
Gavett, Weston, Plainfield, N. J. Filter. 2,287,983; June 30.
Gea, James, assignor of one-fourth to P. Di Giulio, and one-fourth to Fiore Di Giulio, Joliet, Ill. Roadster. 2,288,085; June 30.
Geertz, Eric, and C. A. Getz, Glen Ellyn, assignors to Cardox Corporation, Chicago, Ill. Fire extinguishing apparatus. 2,287,873; June 30.
Geigy, J. R., A.-G. (See Martin, H., Zaeslin, Hirt and Glatthaar, assignors.)
Geller, Helmut, Berlin-Charlottenburg, Germany, assignor to The National Cash Register Company, Dayton, Ohio. Cash register, accounting, and the like machine. 2,288,519; June 30.
Geller, Helmut, Berlin-Charlottenburg, and H. Driescher, Berlin-Spandau, Germany, assignors to The National Cash Register Company, Dayton, Ohio. Cash register. 2,288,520; June 30.
Gemerchak, Irene V., Cleveland, Ohio. Hair curler. 2,288,446; June 30.
General American Aerocoach Company. (See Smith, Lawrence H., assignor.)
General Aniline & Film Corporation. (See Bestian, Herbert, assignor.)
General Aniline & Film Corporation. (See Dersch, F., and Heimbach, assignors.)
General Aniline & Film Corporation. (See Fleischhauer, R., and Müller, assignors.)
General Aniline & Film Corporation. (See Greune, H., Thiele, Langbein, and Maennchen, assignors.)
General Aniline & Film Corporation. (See Huismann, Johann, assignor.)
General Aniline & Film Corporation. (See Langbein, Gerhard, assignor.)
General Aniline & Film Corporation. (See Nadler, F., Bayer, and Hoyer, assignors.
General Aniline & Film Corporation. (See Rieche, A., and Gnuechtel, assignors.)
General Aniline & Film Corporation. (See Rohm, Alfred, assignor.)
General Aniline & Film Corporation. (See Weinand, Klaus, assignor.)
General Chemical Company. (See Bousquet, L. G., and Brooks, assignors.
General Controls Co. (See Paille, Eugene, assignor.)
General Electric Company. (See Anderson, Robert G., assignor.)
General Electric Company. (See Batchelor, Harold R., assignor.)
General Electric Company. (See Berry, Theodore M., assignor.)
General Electric Company. (See Broverman, Michael, assignor.)
General Electric Company. (See D'Alelio, Gaetano F., assignor.)
General Electric Company. (See Hoare, S. C., and Sinks, assignors.)
General Electric Company. (See Hutt, Philip, assignor.)
General Electric Company. (See Kimball, Donald G., assignor.)
General Electric Company. (See Knight, James L., assignor.)
General Electric Company. (See Lane, Arthur C., assignor.)
General Electric Company. (See Malloy, Frank J., assignor.)
General Electric Company. (See McArthur, Elmer D., assignor.)
General Electric Company. (See Moyer, E. E., and Bullen, assignors.)
General Electric Company. (See Nordlander, Birger W., assignor.)
General Electric Company. (See Nordlander, B. W., and Hurst, assignors.)
General Electric Company. (See Ogden, Harold S., assignor.)
General Electric Company. (See Prince, David C., assignor.)
General Electric Company. (See Skeats, Wilfred F., assignor.)
General Electric Company. (See Tuppen, Edward B., assignor.)
General Electric Company. (See Van Horn, Irving H., assignor.)
General Electric Company. (See Willis, Clodius H., assignor.)
General Motors Corporation. (See Canter, Ralph, assignor.)
General Motors Corporation. (See Criswell, Carmer, assignor.)
General Motors Corporation. (See Daily, Robert A., assignor.)
General Motors Corporation. (See Dyer, John B., assignor.)
General Motors Corporation. (See Jominy, Walter E., assignor.)
General Motors Corporation. (See Kamrath, Herbert G., assignor.)
General Motors Corporation. (See Karmazin, John, assignor.)
General Motors Corporation. (See Kucher, Andrew A., assignor.)
General Motors Corporation. (See Smart, Clarence F., assignor.)
General Motors Corporation. (See Smith, Harry F., assignor.)
General Motors Corporation. (See Tormyn, Herman, assignor.)
General Tire & Rubber Company, The. (See Brown, Ray W., assignor.)
General Tire & Rubber Company, The. (See Kraft, Herman T., assignor.)
Gerrard Company, The. (See Harvey, Leo M., assignor.)
Getchell, J. Sterling, Inc. (See Bauman, Herman C., assignor.)
Getgey, John J., assignor to Munny Manufacturing Company, Cincinnati, Ohio. Pressing device. 2,288,277; June 30.
Gettig, Joseph H., and G. Spatta, assignors to Clark Equipment Company, Buchanan, Mich. Apparatus for forming axle housings. 2,288,086; June 30.
Getz, Charles A. (See Geertz, E., and Getz.)
Gibbons, Anna. (See Gibbons, Francis J., J. J., and Anna.)
Gibbons, Francis J. and J. J., Scranton, Pa., and A. Gibbons, Brentwood, Md. Lamp holder attachment for dental handpieces. 2,287,874; June 30.
Gibbons, John J. (See Gibbons, Francis J., J. J., and A.)
Gibbs, John C., Brooklyn, assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y. Making closure caps. 2,288,349; June 30.
Gillette Safety Razor Company. (See Hanley, John A., assignor.)
Gits, Joseph A. and J. P., Chicago, Ill. Forming indicia on counterwheels. 2,288,187; June 30.
Gits, Jules P. (See Gits, Joseph A. and J. P.)
Gladulich, Ricardo, Rio De Janeiro, Brazil. Connecting device for electrical conductors. 2,288,259; June 30.
Glatthaar, Curt. (See Martin, H., Zaeslin, Hirt, and Glatthaar.)
Glazebrook, James R., assignor to Johns-Manville Corporation, New York, N. Y. Damping device. 2,287,984; June 30.
Gleason Works. (See Bullock, Edward W., assignor.)
Gleason Works. (See Wildhaber, E., and Galloway, assignors.)
Gnuechtel, Alfred. (See Rieche, A., and Gnuechtel.)
Goetz, Maurus T., Chicago, Ill., assignor, by mesne assignments, to Teletypesetter Corporation. Control mechanism for linecasting and composing machines. 2,287,793; June 30.

Goldbaum, Robert H. (See Bolten, J., and Goldbaum.)
Goldberg, Benjamin D., Brooklyn, N. Y. Container and support therefor. 2,288,447; June 30.
Gollwitzer, Walter T., Euclid, Ohio, assignor to Addressograph-Multigraph Corporation, Wilmington, Del. Supporting device. 2,288,350; June 30.
Goodall, Charles, Hatton, England. Grass or hay lifter. 2,288,238; June 30.
Goodrich, B. F., Company, The. (See Harrison, Marion M., assignor.)
Goodrich, B. F., Company, The. (See Jones, P. C., and Mathes, assignors.)
Goodrich, B. F., Company, The. (See Jones, P. C., and Phillips, assignors.)
Goodyear Footwear Corporation. (See Hard, John E., assignor.)
Gookin, Sylvester R., Quincy, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Laced boot. 2,287,985; June 30.
Gowing, Daniel M., Upper Darby, and P. F. Sanders, Philadelphia, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Resinous coating composition. 2,287,986; June 30.
Granite Trust Company, executor. (See Smyser, James S.)
Gray, Milton. (See Partee, W. W., and Gray.)
Great Western Sugar Company, The. (See Nees, A. R., Bennett and Hungerford, assignors.)
Green, Alfred L., Ashfield, New South Wales, assignor to Amalgamated Wireless (Australasia) Limited, Sydney, New South Wales, Australia. Tuning arrangement for radio signaling apparatus. 2,288,236; June 30.
Green, Daniel A., North Braddock Township, Allegheny County, assignor to Mine Safety Appliance Company, Pittsburgh, Pa. Breathing apparatus supply valve. 2,288,566; June 30.
Green, Lee B., Lakewood, assignor to C. J. Bath, Chagrin Falls, Ohio. Tangent bender. 2,287,933; June 30.
Greenberg, Abraham, Brooklyn, N. Y. Record holder. 2,288,317; June 30.
Greene, Ernest W., Plant City, Fla., assignor, by mesne assignments, to Phosphate Recovery Corporation, Chicago, Ill. Concentrating phosphate ores. 2,288,237; June 30.
Greenleaf, Walter J., Meadville, Pa. Drafting apparatus. 2,287,987; June 30.
Gregory, David W. (See Root, Ralph R., assignor.)
Gregory, John J., New Kensington, assignor to Pittsburgh Corning Corporation, Allegheny County, Pa. Hollow glass block. 2,288,521; June 30.
Greune, Heinrich, and M. Thiele, Frankfort-on-the-Main, G. Langbein, Hofheim in Taunus, and F. Maennchen, Frankfort-on-the-Main, Germany, assignors to General Aniline & Film Corporation. Dyestuffs of the dioxazine series and preparing them. 2,288,522; June 30.
Gridiron Steel Company. (See Fay, Thomas H., assignor.)
Griffith Laboratories, Inc. (See Komarik, Stephen L., assignor.)
Griffith, Richard, Red Bank, assignor to National Oil Products Company, Harrison, N. J. Wax emulsion. 2,288,351; June 30.
Griffith, William B., Audubon, N. J. Fusible strut for automatic sprinklers. 2,287,988; June 30.
Griffith, William B., Audubon, N. J. Release device for fire protection apparatus. 2,287,989; June 30.
Griscom, Samuel B., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Zero sequence isolators. 2,287,990; June 30.
Griscom, Samuel B., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Alternating-current electric power system. 2,287,991; June 30.
Griswold, Stanley M., Newton, assignor, by mesne assignments, to B. B. Chemical Co., Boston, Mass. Manufacture of insoles. 2,288,448; June 30.
Grober, Othmar, Berlin-Siemensstadt, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit breaker. 2,287,875; June 30.
Grosse, Aristid V., and C. B. Linn, assignors to Universal Oil Products Company, Chicago, Ill. Manufacture of fluoro-hydrocarbons. 2,287,934; June 30.
Grosse, Aristid V., and W. J. Mattox, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,287,935; June 30.
Grove, Marvin H., Berkeley, Calif. Valve construction. 2,287,992; June 30.
Grupe, William F., Lyndhurst, N. J., assignor, by mesne assignments, to Interchemical Corporation, New York, N. Y. Method and apparatus for making coated fabrics. 2,288,188; June 30.
Grupe, William F., Lyndhurst, and A. M. Wickwire, Jr., Mountain Lakes, N. J., assignors, by mesne assignments, to Interchemical Corporation, New York, N. Y. Delivery mechanism. 2,288,523; June 30.
Guinane, James P., New York, N. Y. Loose-leaf binder. 2,288,189; June 30.
Gulf Research & Development Company. (See Montgomery, Charles W., assignor.)
Gulf Research & Development Company. (See Vollmer, Leslie W., assignor.)
Gulliksen, Finn H., Pittsburg, J. W. Allison, Swarthmore, and C. T. Pearce, Ridley Park, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric discharge apparatus. 2,287,993; June 30.
Gunn, Ross, Washington, D. C. Apparatus for measuring mechanical power. 2,287,794; June 30.
Habgood, Bernard J. (See Bacon, R. G. R., Baird, Habgood, and Morgan.)
Habgood, Bernard J. (See Bacon, R. G. R., Habgood, and Hill.)
Hagar, Hamilton. (See Wall, Byron T., assignor.)
Haight, Norman L., East Orange, assignor to Sperry Product, Inc., Hoboken, N. J. Follow-up mechanism. 2,287,876; June 30.
Hall, Frank W., Brackenridge, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Reclaiming safety glass. 2,288,524; June 30.
Hall Laboratories, Inc. (See Partridge, Everett P., assignor.)
Hall, Joseph M., Chicago, Ill., assignor to Drying & Concentrating Company. Mechanism for removing moisture from liquid products. 2,287,795; June 30.
Hall, Wayne C., Washington, D. C. Apparatus for measuring mechanical power and/or torque. 2,287,796; June 30.
Halverson, Carl S. (See Johnson, Henry L., assignor.)
Hammerly, Herman J., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric switch. 2,287,994; June 30.
Hancock, William T., Long Beach, Calif. Refining and treating petroleum hydrocarbons. 2,288,131; June 30.
Hanley, John A., Noroton, Conn., assignor to Gillette Safety Razor Company, Boston, Mass. Current interrupter. 2,288,398; June 30.
Hanley, John A., Noroton, Conn., assignor to Gillette Safety Razor Company, Boston, Mass. Converter unit. 2,288,449; June 30.
Hanley, Stanley M., Grosse Pointe, assignor to Power Equipment Company, Detroit, Mich. Apparatus for controlling electric circuits. 2,287,797; June 30.
Hansen, Harry G. (See Kane, J. H., and Hansen.)
Hansen, John N. (See Smith, F. B., and Hansen.)
Hanson, Hilding, Charleston, W. Va., and R. W. Skoog, Borger, Tex., assignors to United Carbon Company, Inc., Charleston, W. Va. Apparatus for forming dustless carbon black. 2,288,087; June 30.
Hapman, Henry W., Detroit, Mich. Accelerator device. 2,288,450; June 30.
Hard, John E., Cranston, assignor to Goodyear Footwear Corporation, Providence, R. I. Rubber shoe. 2,287,877; June 30.
Hard, John E., Cranston, R. I., assignor to Goodyear Footwear Corporation, Providence, R. I. Rubber footwear. 2,287,878; June 30.
Hardage, Clarence A., assignor to Crouse-Hinds Company, Syracuse, N. Y. Electrical plug and receptacle. 2,288,525; June 30.
Hardgrove, Ralph M., Westfield, N. J., and R. K. Behr, Mount Vernon, N. Y., assignors to The Babcock & Wilcox Company, Newark, N. J. Vapor generator. 2,287,798; June 30.
Harries, John H. O., London, England. Electron lens and deflecting system. 2,288,239; June 30.
Harrison, Henry C., Port Washington, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric switch. 2,288,451; June 30.
Harrison, Henry C., Port Washington, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric switch. 2,288,452; June 30.
Harrison, Marion M., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Making sponge rubber. 2,288,190; June 30.
Hartford-Empire Company. (See Mongan, Charles E., Jr., assignor.)
Hartford-Empire Company. (See Rowe, George E., assignor.)
Hartford National Bank and Trust Company. (See Addink, Nicolaas W. H., assignor.)
Hartman, Harry B., Florence, Mass. Ozone generator. 2,288,132; June 30.
Hartshorn, Stanley D., Wayne, Pa. Hammermill. 2,287,799; June 30.
Harvey, Leo M., Los Angeles, Calif., assignor to The Gerrard Company, Incorporated, Chicago, Ill. Tying machine. 2,288,088; June 30.
Harwood, Paisley B., and J. M. Newman, Wauwatosa, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Dynamic lowering crane controller. 2,288,133; June 30.
Hatch, Alexander G., and R. S. Condon, assignors to Fibre Can Machinery Corporation, Rutland, Vt. Method of and apparatus for forming fiber can bodies. 2,288,161; June 30.
Haugh, Raymond R., assignor to V. C. Usher, Chicago, Ill. Apparatus and method for condensing liquids. 2,287,995; June 30.
Hawkes, Thomas B., Champlain, N. Y., assignor of one-half to The Sheridan Iron Works, and one-half to T. W. & C. B. Sheridan Company. Intermittent drive mechanism. 2,287,800; June 30.

Hayes, Frank, El Monte, Calif. Nut cracking machine. 2,288,191; June 30.
Hazeltine Corporation. (See Rivlin, Ronald S., assignor.)
Head, Rupert F., Burraneer Bay, near Sydney, New South Wales, assignor of one-half to Hoskins Estate Company Pty. Limited, Sydney, New South Wales, Australia. Capstan or like hauling means. 2,288,276; June 30.
Hedin, Uno C., assignor to Bucklen-Bear Laboratories, Inc., Elkhart, Ind. Mercury relay. 2,288,089; June 30.
Hedin, Uno C., assignor to Bucklen-Bear Laboratories, Inc., Elkhart, Ind. Mercury relay. 2,288,090; June 30.
Hegenauer, Charles J., Hastings-on-Hudson, N. Y., assignor to Burndy Engineering Company, Inc. Constant pressure clasp connector. 2,288,192; June 30.
Heidegger, Henry F., Brooklyn, assignor to International Projector Corporation, New York, N. Y. Adjusting means for front and rear shutters of a motion picture projector. 2,287,996; June 30.
Heimbach, Newton. (See Dersch, F., and Heimbach.)
Heinze Electric Corporation. (See Leonard, Anthon A., assignor.)
Heitman, Charles E., Jr., and F. E. Laig, assignors to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Welding control. 2,288,567; June 30.
Heizer, Edward J. (See Birkhofer, J. J., and Heizer.)
Henderson, Charles L., Appleton, assignor to Paper Patents Company, Neenah, Wis. Transfer machine. 2,288,352; June 30.
Hennessy, Daniel E., Leominster, assignor to Springfield Wire & Tinsel Co., West Springfield, Mass. Tangled wire mass. 2,287,879; June 30.
Hepner, Charles, Chicago, Ill. Scouring and abrading appliance. 2,287,801; June 30.
Hercules Powder Company. (See Billing, Wyly M., assignor.)
Hercules Powder Company. (See Mashburn, Robert T., assignor.)
Herman, Henry F., Rye, N. Y. Beverage making devices. 2,288,240; June 30.
Herstein, Karl M., New York, N. Y., assignor to Acrolein Corporation. Producing acrylic acid and its salts. 2,288,566; June 30.
Heyden Chemical Corporation. (See Burton, J., and Bowman, assignors.)
Hiatt, Stephen T., Fanwood, N. J. Washing apparatus. 2,288,353; June 30.
Hill, James R., Cleveland Heights, assignor to Willard Storage Battery Company, Cleveland, Ohio. Manufacture of storage batteries. 2,287,802; June 30.
Hill, Luther R., Radburn, N. J., assignor to The M. W. Kellogg Company, New York, N. Y. Separating hydrocarbon fluids. 2,288,453; June 30.
Hill, Rowland. (See Bacon, R. G. R., Habgood and Hill.)
Hill, William J., Houston, Tex. Hoisting equipment. 2,288,354; June 30.
Hill, William J., and W. C. Furry, Houston, Tex. Builder's platform. 2,288,355; June 30.
Hinman, Wilbur S., Jr. (See Diamond, H., and Hinman, Jr.)
Hirt, Rudolf. (See Martin, H., Zaeslin, Hirt and Glatthaar.)
Hittson, Harker H., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Apparatus for operating vibratory motors. 2,287,880; June 30.
Hoare, Stephen C., Manchester, and A. T. Sinks, Beach Bluff, Mass., assignors to General Electric Company. Electrical measuring device. 2,288,399; June 30.
Hobart Manufacturing Company, The. (See Meeker, D. A., and Allen, assignors.)
Hobson, John R., West Hartford, assignor, by mesne assignments, to Plax Corporation, Hartford, Conn. Forming hollow articles of plastic material. 2,288,454; June 30.
Hoffman, Raymond A., Euclid, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Electroplating process. 2,288,318; June 30.
Hokanson, Otto A., North Tonawanda, assignor to The Rudolph Wurlitzer Company, North Tonawanda, N. Y. Automatic phonograph. 2,288,526; June 30.
Holcomb, Arthur L., Tarzana, Calif., assignor to Western Electric Company, Incorporated. Protective device. 2,288,241; June 30.
Holden, William H. T., Long Island City, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,287,881; June 30.
Holmes, Ernest, Company. (See Holmes, Ernest W., assignor.)
Holmes, Ernest W., assignor to Ernest Holmes Company, Chattanooga, Tenn. Creeper. 2,288,568; June 30.
Hoover Company, The. (See Babcock, Earl, assignor.)
Hoover Company, The. (See Dalger, George P., assignor.)
Hoover Company, The. (See Puchy, Clarence G., assignor.)
Hoover Company, The. (See Snyder, Eugene L., assignor.)
Hoover Company, The. (See White, Harry B., assignor.)
Hoover, Kenneth H., assignor to Commercial Solvents Corporation, Terre Haute, Ind. The recovery of nitric oxide from gaseous mixtures. 2,288,091; June 30.
Hopff, Heinrich, A. Weickmann, and H. Ufer, Ludwigshafen-on-the-Rhine, Germany, assignors to E. I. du Pont de Nemours and Company, Wilmington, Del. Superpolyamide-formaldehyde reaction products. 2,288,279; June 30.
Horn, Erwin A., I. F. Laucks, and P. B. Attwell, assignors, by mesne assignments, to I. F. Laucks, Inc., Seattle, Wash. Structural member and building structures. 2,288,193; June 30.
Hornbruch, Frederick W., Jr., Roselle Park, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J. Synchroscope. 2,288,280; June 30.
Hose, Alexander V., Marblehead, assignor to Atwood & Morrill Co., Salem, Mass. Relief valve. 2,287,936; June 30.
Hoskins Estate Company Pty. Limited. (See Head, Rupert F., assignor.)
Howard, Charles L., assignor to H. M. Howard, Wilmette, Ill. Producing musical sounds. 2,288,455; June 30.
Howard, Helen M. (See Howard, Charles L., assignor.)
Howell, Lynn G., Houston, Tex., assignor to Standard Oil Development Company. Gamma-ray well logging. 2,288,278; June 30.
Howenstine, Charles C. (See Ortegren, H. A., and Howenstine.)
Hoye, Peder B., Maywood, assignor to Electrical Engineers Equipment Company, Melrose Park, Ill. Switch. 2,281,134; June 30.
Hoyer, Hans. (See Nadler, F., Bayer, and Hoyer.)
Hoza, John, Belcamp, Md. Stop motion mechanism for sewing machines. 2,288,135; June 30.
Hudnall, John W., Jr. (See Boetcher, H. N., and Hudnall, Jr.)
Hudson, H. D., Manufacturing Company. (See Mayer, John, assignor.)
Huenlich, Charles, Bloomfield, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph. 2,288,242; June 30.
Huff, Lyman C., assignor to Universal Oil Products Company, Chicago, Ill. Punch. 2,287,882; June 30.
Huijser, Hendrik W., and A. Schaafsma, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif. Separating mixtures of chemically related substances. 2,288,281; June 30.
Huismann, Johann, Leverkusen-Wiesdorf, Germany, assignor to General Aniline & Film Corporation, New York, N. Y. Producing polyhydroxyaryl-sulphones. 2,288,282; June 30.
Hull, David C., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Direct conversion of alcohols to acids. 2,287,809; June 30.
Hull, Herbert H., and J. F. Barton, Jr., Johnson City, Tenn. Safety device for motion picture projectors. 2,288,400; June 30.
Hulse, Stewart H., and J. O. Collins, Westfield, N. J., assignors to Standard Oil Development Company. Treating Diesel fuel. 2,288,401; June 30.
Hulst, Clarence P., New York, N. Y. Electric shaver. 2,288,162; June 30.
Humphner, Ferdinand W., Oak Park, assignor to Mid-States Gummed Paper Co., Chicago, Ill. Wallpapering. 2,288,527; June 30.
Humphrey, Walter E., Jeannette, Pa. Press for vulcanizing play balls and similar articles. 2,288,356; June 30.
Hungerford, Edwin H. (See Nees, A. R., Bennett and Hungerford.)
Hunt, Otto H., Salem, Oreg. Direction indicator and signal. 2,288,528; June 30.
Hurst, Ira A. (See Nordlander, B. W., and Hurst.)
Hutt, Philip, New Haven, Conn., assignor to General Electric Company. Electric switch. 2,288,283; June 30.
Hyde, Thomas B., Chelmsford, England, assignor to Radio Corporation of America. Indicator apparatus 2,288,243; June 30.
Iams, Harley A., Summit, N. J., assignor to Radio Corporation of America. Television transmitting tube. 2,288,402; June 30.
Ilford Limited. (See Kendall, J. D., and Challis, assignors.)
Iliff, George S., Pasadena, Calif. Apparatus for preparing pads for shoes. 2,288,456; June 30.
Imperial Chemical Industries Limited. (See Bacon, R. G. R., Baird, Habgood and Morgan, assignors.)
Imperial Chemical Industries Limited. (See Bacon, R. G. R., Habgood and Hill, assignors.)
Imperial Chemical Industries Limited. (See Reynolds, R. J. W., and Walker, assignors.)
Industrial Patents Corporation. (See Walter, Charles T., assignor.)
Ingersoll Milling Machinery Company, The. (See Ridgway, William F., assignor.)
Ingersoll-Rand Company. (See Dick, George M., assignor.)
Inland Steel Company. (See Simborg, Edward J., assignor.)
Inman, Hale M., Aberdeen, S. Dak. Poultry box. 2,288,457; June 30.
Institute of Paper Chemistry, The. (See Kress, O., and Johnson, assignors.)
Interchemical Corporation. (See Abrams, John, assignor.)

Interchemical Corporation. (See Grupe, William F., assignor.)
Interchemical Corporation. (See Grupe, W. F., and Wickwire, Jr., assignors.)
Interchemical Corporation. (See Wilson, E. A., and Shack, assignors.)
International Business Machines Corporation. (See Leathers, Ward, assignor.)
International Paper Company. (See St. Laurent, John J., assignor.)
International Projector Corporation. (See Borberg, Willy, assignor.)
International Projector Corporation. (See Friedl, George, Jr., assignor.)
International Projector Corporation. (See Heidegger, Henry F., assignor.)
International Projector Corporation. (See Kindelmann, A., and Thoma, assignors.)
International Resistance Company. (See Foley, Andrew A., assignor.)
International Smelting and Refining Company. (See Weaver, E. F., assignor.)
Irgens, Finn T., Wauwatosa, assignor to Outboard Marine & Manufacturing Company, Milwaukee, Wis. Die-cast cylinder block. 2,288,092; June 30
Iron Fireman Manufacturing Company. (See Richardson, Mac C., assignor.)
Jackson, O. W., & Co. (See Lorraine, E. C., assignor.)
Jacobs, Jules, et al. (See Maucher, Hans, assignor.)
Jacobs Samuel, et al. (See Mancher, Hans, assignor.)
Janiszewski, Kasimir, West Allis, Wis. Die set. 2,288,136; June 30.
Jarvis, Edwin W., assignor to Kold-Kist, Inc., Los Angeles, Calif. Refrigerated showcase. 2,287,997; June 30.
Jeffers, Walter M., assignor to Crouse-Hinds Company, Syracuse, N. Y. Cycle timer control apparatus for traffic signals. 2,288,458; June 30.
Jeffrey Manufacturing Company, The. (See Arms, George L., assignor.)
Jeffrey Manufacturing Company, The. (See Hittson, Harker H., assignor.)
Jenkins, Tazewell H., Chicago, Ill. Wire bottle carrier. 2,288,357; June 30.
Jenkins, Tazewell H., Chicago, Ill. Carrier for necked containers. 2,288,358; June 30.
Jenkins, Tazewell H., Chicago, Ill. Detachable handle for cans. 2,288,359; June 30.
Jensen, Louis, Chicago, Ill. assignor to United Autographic Register Co. Method and apparatus for interconnecting manifold sets of stationery. 2,288,360; June 30.
Jofé, David P., New York, N. Y. Switch control device. 2,287,883; June 30.
Johns-Manville Corporation. (See Glazebrook, James Robinson, assignor.)
Johns, Winthrop A., New Brunswick, N. J., assignor to Research Corporation, New York, N. Y. Gear shifting apparatus. 2,287,937; June 30.
Johns, Winthrop A., New Brunswick, N. J., assignor to Rearch Corporation, New York, N. Y. Gear shifting apparatus. 2,287,938; June 30.
Johnson Charles E. (See Kress, O., and Johnsen.)
Johnson, Henry L., assignor of fifteen percent to C. S. Halverson, Bremerton, Wash. Device for recovery of minerals. 2,287,804; June 30.
Johnson, Joseph B. (See Arms, M. H., and Johnson.)
Johnson, Kenneth S., South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone circuit. 2,287,998; June 30.
Johnson, Roger C. (See Gailmard, E. P., and Johnson.)
Johnson, Roy W. (See McCarty, L. V., Johnson and Newman.)
Johnson, Tomlinson F., Atlanta, Ga. Electrical switch. 2,288,529; June 30.
Johnson, William B., United States Army. Rifle rack. 2,287,805; June 30.
Jominy, Walter E., assignor to General Motors Corporation, Detroit, Mich. Piston ring. 2,287,884; June 30.
Jonas, Julius, Zurich, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. High-voltage power transmission system. 2,288,459; June 30.
Jones, Paul C., and R. A. Mathes, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Vulcanization of rubber. 2,288,194; June 30.
Jones, Paul C., Silver Lake, and W. E. Phillips, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Rubber compositions having high flexi-resistance and low hysteresis. 2,288,195; June 30.
Jones, Stanley A., Chillicothe, Ohio. Liquid conditioning apparatus. 2,288,137; June 30.
Joy Manufacturing Company. (See Russell, J. D., and Thies, assignors.)
Joyce, Bryan P., East Orange, N. J. Breech block operating means. 2,287,885; June 30.
Jugle, Leonard, assignor to Reliable Electric Company. Chicago, Ill. Wire grip. 2,288,138; June 30.
Juncker, Chester A. (See Whitmore, L. S., and Juncker.)
Jurgenson, William F., Hamilton, Ontario, Canada. Cement block molding apparatus. 2,288,403; June 30.
Kaffenberger, Norbert F. A., and W. Sheffer, Middletown, Ohio. Combined tool handle and lamp. 2,288,093; June 30.
Kahn, Benjamin. (See Welch, W. W., and Kahn.)
Kahre, George F., Portland, Oreg. Presser foot for sewing machines. 2,288,404; June 30.
Kalischer, Milton, Longmeadow, Mass. assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigeration. 2,288,587; June 30.
Kalter, Harold E., assignor to The Troxel Manufacturing Company, Elyria, Ohio. Spring assembly for saddles 2,288,163; June 30.
Kamrath, Herbert G., Flint, assignor to General Motors Corporation, Detroit, Mich. Air cleaner and silencer assembly. 2,287,806; June 30.
Kane, Jasper H., Brooklyn, and H. G. Hansen, Richmond Hill, assignors to Charles Pfizer & Company, Brooklyn, N. Y. Manufacture of phosphoric acid and its salts. 2,288,460; June 30.
Karmazin, John, Grosse Ile, Mich., assignor to General Motors Corporation, Dayton, Ohio. Making tubing. 2,288,094; June 30.
Karmel, Philip. (See Norton, C., and Karmel.)
Katcher, Morris, New York, N. Y. Shaft seal. 2,288,164; June 30.
Keith, Percival C., Jr., Peapack, and G. Roberts, Jr., Montclair, N. J., assignors to The M. W. Kellogg Company, New York, N. Y. Separating hydrocarbon fluids. 2,288,461; June 30.
Kellett, William P., New York, N. Y. Container ship. 2,287,886; June 30.
Kellogg, John L. & Co. (See Kellogg, John L.)
Kellogg, John L., assignor, by mesne assignments, to John L. Kellogg & Co., Chicago, Ill. Coffee extract. 2,288,284; June 30.
Kellogg, M. W., Company, The. (See Hill, Luther R., assignor.)
Kellogg, M. W., Company, The. (See Keith, P. C., Jr., and Roberts, Jr., assignors.)
Kellogg, M. W., Company, The. (See Rearick, John S., assignor.)
Kelly, John H., Pittsburgh, Pa. Machine for conditioning leather surfaces. 2,287,999; June 30.
Kelly, Norval R., Great Neck, N. Y., assignor to Radio Corporation of America. Sound reproducing apparatus. 2,288,000; June 30.
Kelsey-Hayes Wheel Company. (See Sinclair, Charles W., assignor.)
Kendall, John D., and K. J. Challis, Ilford, assignors to Ilford Limited, Ilford, England. Photographic material. 2,287,807; June 30.
Kent, Frederick J., Glen Rock, N. J. Sound reproducing system. 2,288,462; June 30.
Kepfer, Raymond J., Lakewood, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Recovery of zinc values. 2,288,405; June 30.
Kileen, Ray. (See Krumsiek, E., and Kileen.)
Kimball, Donald G., Stratford, Conn., assignor to General Electric Company. Positioning means for electric switches. 2,288,406; June 30.
Kinatome Patents Corporation. (See Foster, Warren D., assignor.)
Kindelmann, Albert, Floral Park, and L. Thoma, Richmond Hill, assignors to International Projector Corporation, New York, N. Y. Framing mechanism for a motion picture projector. 2,288,001; June 30.
Kingman, Barclay A., assignor to Downy Products Company, Orange, N. J. Scouring device. 2,288,002; June 30.
Kircher, Paul J. (See Almquist, N. T., and Kircher.)
Kislingbury, Fredray H., Los Angeles, Calif. Electric guitar. 2,288,463; June 30.
Kitchener, Jacob, Princeton, N. J. Electric dehorner. 2,288,464; June 30.
Klarer, Josef, and F. Mietzsch, Wuppertal-Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Sulphonic acid amide compound. 2,288,530; June 30.
Klarer, Josef, Wuppertal-Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Benzenesulphonamide compounds. 2,288,531; June 30.
Klein, William S. (See Lubcke, H. R., Brown, and Klein.)
Kleucker, George M., assignor to Midwest Coolers, Inc., St. Louis, Mo. Air conditioning apparatus. 2,288,003; June 30.
Knapp, Budd L., Skaneateles, N. Y. Filter device. 2,288,532; June 30.
Knight, James L., Erie, Pa., assignor to General Electric Company. Dehydrator. 2,288,285; June 30.
Knudsen, Percy E., Pittsburgh, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Multiglazed window and light screen therefor. 2,288,465; June 30.
Kohnle, Frederick, assignor to The Monarch Marking System Company, Dayton, Ohio. Fastening device. 2,288,286; June 30.
Kokay, Stephen, assignor to Ditto, Incorporated, Chicago, Ill. Sheet positioning means. 2,288,287; June 30.
Kold-Hold Manufacturing Company. (See McGuffey, Orton S., assignor.)
Kold-Kist, Inc. (See Jarvis, Edwin W., assignor.)

Komarik, Stephan L., assignor to The Griffith Laboratories, Inc., Chicago, Ill. Spread comprising animal body fat. 2,288,244; June 30.

Kooperativa Förbundet Förening U. P. A. (See Lundqvist, Karl H., assignor.)

Kooperativa Förbundet Förening U. P. A. (See Lundqvist, K. H., and Vigborg, assignors.)

Kopp, Edward C., Fort Worth, Tex. Oil and gas separator. 2,288,245; June 30.

Kraft, Herman T., Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio. Respirator. 2,287,939; June 30.

Kramar, Ernst, Berlin, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof Germany. Radio beacon system. 2,288,196; June 30.

Kramer, Seymour L., New York, N. Y. Scarf and sash. 2,287,887; June 30.

Kränzlein, George, and M. Corell, Frankfort-on-the-Main, Germany. Acrylic acid amides. 2,288,197; June 30.

Kreidl, Ignaz, London, England, and F. Nozicka, assignors to Fridolin Glass trading under the style Vereinigte Chemische Fabriken Kreidl, Heller & Co. Nfg., Vienna, Germany. The production of artificial resins. 2,288,533; June 30.

Kress, Otto, and C. E. Johnson, assignors to The Institute of Paper Chemistry, Appleton, Wis. Hosiery. 2,288,361; June 30.

Kroll, William, New York, N. Y., assignor to Electro Metallurgical Company. Manganese-base alloys. 2,287,888; June 30.

Kroydon Company, The. (See Birkhofer, J. J., and Heizer, assignors.)

Krumsiek, Ernest, and R. Kileen, assignors to Mueller Co., Decatur, Ill. Lock joint coupling. 2,287,889; June 30.

Krupa, Victor C., Woodcliff Lake, N. J., and H. R. Fleck, New York, N. Y., assignors to Vaporate Company, Inc. Film treating apparatus and process. 2,288,165; June 30.

Kucher, Andrew A., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,288,166; June 30.

Kuester, August F., Clintonville, Wis. Wheel mounting. 2,288,246; June 30.

Kunstorff, Werner, San Francisco, Calif. Vacuum breaker. 2,288,247; June 30.

Laabs, Eric H. (See Feldhausen, C. P., and Laabs.)

Lacey, Roscoe B. (See Webber, Joseph T., assignor.)

Lada, Edmund J., Woodhaven, N. Y. Pencil pointer. 2,288,407; June 30.

Laig, Frederic E. (See Heitman, C. E., Jr., and Laig.)

Landers, Frary & Clark. (See Almquist, M. T., and Kircher, assignors.)

Landers, Wilbur E., Chicago, Ill. Shoe clamp. 2,288,582; June 30.

Lane, Arthur C., Rugby, England, assignor to General Eletric Company. Alternating current cummutator machine. 2,288,408; June 30.

Langbein, Gerhard. (See Greune, H., Thiele, Langbein, and Maennchen.)

Langbein, Gerhard, Hofheim-in-Taunus, Germany, assignor to General Aniline & Film Corporation. Ethers of mono-hydroxy-halogen-1,4-benzoquinones and preparing them. 2,288,198; June 30.

Langer, George B., assignor to Lynch Corporation, Anderson, Ind. Glassware forming apparatus. 2,288,466; June 30.

Latina, Harry B., East St. Louis, Ill., assignor to Rawlings Manufacturing Company, St. Louis, Mo. Baseball mitt or glove. 2,288,467; June 30.

Laucks, I. F., Inc. (See Horn, E. A., Laucks and Attwell, assignors.)

Laucks, Irving F. (See Horn, E. A., Laucks and Attwell.)

Lauderdale, Earl M., Walnut Park, Calif. Tool holder. 2,288,004; June 30.

Leathers, Ward, Brooklyn, N. Y., assignor by mesne assignments to International Business Machines Corporation. Distributor switch. 2,288,563; June 30.

Lee, Don, Broadcasting System. (See Lubcke, H. R., Brown, and Klein, assignors.)

Legassey, Joseph A., Leominster, Mass. Adjustment for dial indicators. 2,287,890; June 30.

Lehde, Henry, Brooklyn, N. Y. Apparatus for detecting a definite color phase during the processing of a material. 2,287,808; June 30.

Lehmann, Herbert G., Wood-Ridge, N. J., assignor to Automatic Devices Corporation, Bridgeport, Conn. Cigar lighter. 2,288,005; June 30.

Leiter, Harry H. (See Longfellow, Earl E., assignor.)

Leonard, Anthon A., Glenside, Pa., assignor to Heinze Electric Corporation, Lowell, Mass. Phonograph record cutting mechanism. 2,287,809; June 30.

Le Tourneau, R. G., Inc. (See Le Tourneau, Robert G., assignor.)

Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc. Movable scaffold. 2,288,167; June 30.

Leu, Edward E., Chicago, Ill. Heel. 2,288,168; June 30.

Levy, Minnie, assignor of one-half to W. Levy, Brooklyn, N. Y. Foot protector. 2,288,199; June 30.

Levy, William. (See Levy, Minnie, assignor.)

Lidgerwood Manufacturing Company. (See Erling, Ralph, assignor.)

Lieber, Eugene. (See Mikeska, L. A., and Lieber.)

Lilley, Eric R. (See Lilley, Garford, John R., and Eric R.)

Lilley, Garford, J. R., and E. R., Derby, England. Snail ware loom. 2,288,468; June 30.

Lilley, John R. (See Lilley, Garford, J. R., and E. R.)

Linckh, Eduard, Ludwigshafen-on-the-Rhine, Germany, assignor, by mesne assignments to Standard Catalytic Company. Production of hydrocarbons and their derivatives from mixtures of hydrogen and oxides of carbon. 2,287,891; June 30.

Lincoln, Bert H., Ponca City, Okla., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Lubricating oil. 2,288,288; June 30.

Lincoln, Bert H., G. D. Byrkit, and W. L. Steiner, Ponca City, Okla., assignors, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Lubricant. 2,288,289; June 30.

Linde Air Products Company, The. (See Rea, John A., assignor.)

Linde Air Products Company, The. (See Scheller, Arthur P., assignor.)

Lindsay, Harvey B., Evanston, and N. R. Easter, Park Ridge, assignors to Dry-Zero Corporation, Chicago, Ill. Method and apparatus for producing bound batts. 2,288,095; June 30.

Linn, Carl B. (See Grosse, A. V., and Linn.)

Lippman, Alfred, Jr., and R. L. Comstock, Weeks, assignors to Bay Chemical Company, Inc., New Orleans, La. Free-flowing salt composition. 2,288,409; June 30.

Lippman, Alfred, Jr., Weeks, assignor to Bay Chemical Company, Inc., New Orleans, La. Stabilization of peroxide. 2,288,410; June 30.

Lloyd, William, assignor to Combustion Engineering Company, Inc., New York, N. Y. Grate bar. 2,288,006; June 30.

Locke Insulator Corporation. (See Croskey, C. D., and Rowland, assignors.)

Loftin, Murray L. (See Noland, D. B., and Loftin.)

Long, Harry L., Oklahoma City, Okla. Heating means for grease guns. 2,288,248; June 30.

Longfellow, Earl E., assignor to H. H. Leiter, Warsaw, Ind. Surgeon's screw driver, screw holder, and stabilizer. 2,288,584; June 30.

Lookholder, Alex E., La Grange, Ill. Protecting cover for automobile seats and the like. 2,288,469; June 30.

Lorenz, C., Aktiengsellschaft. (See Gaebel, A., and Schwartz, assignors.)

Lorenz, C., Aktiengesellschaft. (See Kramer, Ernst, assignor.)

Lorenz, C., Aktiengesellschaft. (See Nitz, Herbert, assignor.)

Lormor, Henry W., Cleveland Heights, Ohio. Change making machine. 2,287,892; June 30.

Lorraine, Edward C., South Elmhurst, assignor to O. W. Jackson & Co., Inc., New York, N. Y. Protective stair edging. 2,288,470; June 30.

Losee, Albert D., Sumner, Nebr. Wire stretcher and splicer. 2,288,471; June 30.

Löwenherz, Oscar, Brussels, Belgium, and Martin Behrens, Cologne, Germany. Folding chair. 2,288,411; June 30.

Lower, Frederick A., Wichita Falls, Tex. Indicating instrument. 2,288,534; June 30.

Lubcke, Harry R., Los Angeles, W. H. Brown, Santa Anita, and W. S. Klein, assignors to Don Lee Broadcasting System, Los Angeles, Calif. Television film projector. 2,288,096; June 30.

Lucker, Millard B., assignor to Auto Specialties Manufacturing Company, St. Joseph, Mich. Lifting jack. 2,288,097; June 30.

Ludwig, Hans. (See Fingado, G. A., and Ludwig.)

Luelf, Henry A. (See Therrien, Robert F., assignor.)

Lum, John C., Union, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Corrosion resistant films on zinc. 2,288,007; June 30.

Lund, James K., Oak Park, assignor to The Dole Valve Company, Chicago, Ill. Mixing valve. 2,287,810; June 30.

Lundberg, Carl F., Minneapolis, Minn. Sealed box with pouring spout. 2,287,893; June 30.

Lundberg Exploration S. A. (See Zuschlag, Theodor, assignor.)

Lundqvist, Karl H., assignor to Kooperativa Förbundet Förening U. P. A., Stockholm, Sweden. Change giving vending machine and the like. 2,287,811; June 30.

Lundqvist, Karl H., S. Hammarbyhojden, Stockholm, and K. M. Vigborg, assignors to Kooperativa Forbundet Forening U P A, Stockholm, Sweden. Change giving vending machine. 2,288,249; June 30.

Lynch Corporation. (See Langer, George B., assignor.)

Lynn, John P., Chicago, assignor to Dur-O-Lite Pencil Company, Melrose Park, Ill. Mechanical pencil. 2,287,894; June 30.

M and M Wood Working Company. (See Pasquier, Michel, assignor.)

Machon, Hubert. (See Burgdorf, K., Frotscher and Machon.)

MacKinnon, Russell H., assignor of one-half to E. C. Black, Evanston, Ill. Secondary rack construction. 2,287,895; June 30.

MacNeil, John B., Wilkinsburg, and A. H. Bakken, Edgewood, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit interrupter. 2,288,472; June 30.

Maennchen, Fritz. (See Greune, H., Thiele, Langbein, and Maennchen.)

Magazine Repeating Razor Company. (See Reyburn, John R., assignor.)

Magazine Repeating Razor Company. (See Reyburn, J. R., and Ebelhare, assignors.)

Magnavox Company, The. (See Dunleavey, Frank S., assignor.)

Malleable Steel Range Manufacturing Company, The. (See Sickinger, William H., assignor.)

Mallory Hat Company, The. (See Reynolds, R. K., and Wells, assignors.)

Malloy, Frank J., Cleveland Heights, Ohio, assignor to General Electric Company. Sealing machine. 2,288,537; June 30.

Mannfolk, George J., New York, N. Y. Chopper and slicer. 2,288,473; June 30.

Manning, John R., assignor of one-fourth to S. Winston and one-fourth to M. Donaldson, Santa Fe, New Mex. Wheel structure. 2,288,474; June 30.

Manson, Frank G., Dayton, Ohio. Parachute harness. 2,287,812; June 30.

Manson, George J., Brantford, Ontario, assignor to Shawinigan Chemicals, Limited, Montreal, Quebec, Canada. Chewing gum base. 2,288,100; June 30.

Marble, Jarvis C., et al. (See Boestad, Gustav K. W., assignor.)

Marchev, Alfred, La Grange, assignor to Ditto, Incorporated, Chicago, Ill. Sheet clamping means for duplicating machines. 2,288,290; June 30.

Marholz, Richard C., and A. W. Plensler, assignors to Belmont Radio Corporation, Chicago, Ill. Control device for controllable apparatus. 2,288,098; June 30.

Mariani, Paul, New York, N. Y. Shoe heel. 2,288,475; June 30.

Marin, Marcel. (See Boyer, R., Marcel, and Gaestel.)

Marine Magnesium Products Corporation. (See Collins, N. R., and Esterberg, assignors.)

Maris, Ellwood S. (See Newman, W. E., and Maris.)

Martin, Glenn L., Company, The. (See Veit, Hermann E., assignor.)

Martin, Henry, Basel, H. H. Zaeslin, Riehen, near Basel, R. Hirt and C. Glatthaar, Basel, Switzerland, assignors to the firm J. R. Geigy A. G., Basel, Switzerland. Production of acyl aminosulphonic acids. 2,287,896; June 30.

Martin, Herbert E., Cumberland, Md., assignor to Celanese Corporation of America. Manufacture of organic derivatives of cellulose materials. 2,287,897; June 30.

Martin, Wayne E., Bayside, N. Y. Forming cutters. 2,288,291; June 30.

Marx, Joseph A., Jr., Saginaw, Mich. Seat for automobiles. 2,288,535; June 30.

Mashburn, Robert T., Parchment, Mich., assignor to Hercules Powder Company, Wilmington, Del. Size emulsion and preparing the same. 2,288,476; June 30.

Mason, Donald B., Westport, Conn., and P. D. Peterson, Highland Park, N. J., assignors to Freeport Sulphur Company, New York, N. Y. Protection of economic crops. 2,288,569; June 30.

Mason, Erwin S., Norwood, Ohio, assignor to The J. H. Day Company, Cincinnati, Ohio. Continuous metering conveyer for bulk material. 2,288,099; June 30.

Mason, Joseph, Providence, R. I., assignor, by mesne assignments, to United Aircraft Products, Inc., Dayton, Ohio. Heat treating apparatus. 2,288,008; June 30.

Mason, Neilan Regulator Company. (See Belaef, Nikolai, assignor.)

Matasy, Joseph S., and A. P. Ballantyne, Youngstown, Ohio. Fishing lure or artificial fishing bait. 2,288,009; June 30.

Mathes, Roger A. (See Jones, P. C., and Mathes.)

Mathews Brother Co. (See Vose, Fred N., assignor.)

Mattox, William J. (See Grosse, A. V., and Mattox.)

Maucher, Hans, assignor, by mesne assignments, to S. and J. Jacobs, copartners doing business under the firm name and style of Norma Multikolor, New York, N. Y. Magazine pencil assembly. 2,288,292; June 30.

Mayer, John, Hastings, Minn., assignor to H. D. Hudson Manufacturing Company, Chicago, Ill. Adjustable duster nozzle. 2,288,101; June 30.

McArthur, Elmer D., Schenectady, N. Y., assignor to General Electric Company. Electric valve frequency changer. 2,288,362; June 30.

McArthur, Elmer D., Schenectady, N. Y., assignor to General Electric Company. Electric valve frequency changer. 2,288,363; June 30.

McArthur, Elmer D., Schenectady, N. Y., assignor to General Electric Company. High frequency electric valve generator. 2,288,364; June 30.

McCarthy, Charles S., Toledo, Ohio, assignor to The Bingham Stamping Company. Mechanism control apparatus. 2,288,169; June 30.

CcCarty, Lourdes V., R. W. Johnson and F. H. Newman, assignors to Automatic Products Company, Milwaukee, Wis. Fuel feeding mechanism for liquid fuel burners. 2,288,536; June 30.

McConaughy, Robert B. (See Dunn, C. L., and McConaughy.)

McDermott, Henry J., Prospect Park, Pa., assignor to American Viscose Corporation, Wilmington, Del. Spinning box. 2,288,412; June 30.

McGrew, Edwin H., assignor to Universal Oil Products Company, Chicago, Ill. Hydrocarbon conversion. 2,287,940; June 30.

McGuffey, Orton S., assignor to Kold-Hold Manufacturing Company, Lansing, Mich. Refrigeration apparatus. 2,287,941; June 30.

McKane, Fred J., et al. (See Morley, Joseph, assignor.)

McKinley, Frank M. (See Edwards, M. G., and McKinley.)

McLean, Donald G., Beverly, Mass., and G. A. Miner, Goffstown, N. H., assignors to United Shoe Machinery Corporation, Flemington, N. J. Trimming machine. 2,287,813; June 30.

Mechanical Oil Recovery, Incorporated. (See Vinson, Dan W., assignor.)

Meeker, David A., Troy, and K. C. Allen, Dayton, assignors to The Hobart Manufacturing Company, Troy, Ohio. Scale. 2,287,814; June 30.

Meets-A-Need Manufacturing Company. (See Dickey, Roy N., assignor.)

Meier, Ehrhard. (See Pattock, K., and Meier.)

Meland, John M., Minneapolis, Minn. Fish-cutting machine. 2,288,010; June 30.

Mercedes Buromaschinen-Werke Aktiengesellschaft. (See Pott, August F., assignor.)

Merck & Co. (See Wallis, E. S., and Fernholz, assignors.)

Merck & Co. (See Webb, Thomas J., assignor.)

Meredith, Frederick W., assignor to S. Smith & Sons (Motor Accessories) Limited, London, England. Radio direction finding apparatus. 2,288,102; June 30.

Merrill, Leslie M., et al. (See Boestad, George K. W., assignor.)

Metcalf, Colin, Wilmslow, England. Manufacture of laminated paper, cardboard and the like. 2,288,293; June 30.

Meyer, George, Hannover, Germany. Production of water soluble cellulose ethers in powder form. 2,288,200; June 30.

Meyerhans, August, Rieden, near Baden, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. High tension transformer. 2,288,201; June 30.

Micon, David, Los Angeles, Calif. Mattress construction. 2,288,103; June 30.

Mid-States Gummed Paper Co. (See Humphner, Ferdinand W., assignor.)

Midland Steel Products Company, The. (See Smith, William E., assignor.)

Midwest Coolers, Inc. (See Kleucker, George M., assignor.)

Mietzsch, Fritz. (See Klarer, J., and Mietzsch.)

Mikeska, Louis A., Elizabeth, and E. Lieber, Linden, N. J., assignors to Standard Catalytic Company. Pour inhibitor. 2,288,319; June 30.

Miner, George A. (See McLean, D. G., and Miner.)

Minneapolis-Honeywell Regulator Company. (See Diekhoff, Earl F., assignor.)

Minnesota Mining & Manufacturing Company. (See Smyser, James S.)

Mine Safety Appliances Company. (See Green, Daniel A., assignor.)

Minshull, John A. (See Ostlund, A. I., and Minshull.)

Mizzy, Albert D., New York, N. Y. Teeth separator. 2,288,011; June 30.

Modigliani, Piero, Livorno, Italy, assignor to Owens-Corning Fiberglas Corporation, Toledo, Ohio. Making mat of glass fibers. 2,287,815; June 30.

Modine Manufacturing Company. (See Arnold, Arthur B., assignor.)

Moeller, William J., Mount Healthy, Ohio, assignor to The Philip Carey Manufacturing Company. Thermal insulating material. 2,288,170; June 30.

Monarch Marking System Company, The. (See Kohnle, Frederick, assignor.)

Mongan, Charles E., Jr., assignor to Hartford-Empire Company, Hartford, Conn. Adjustable nozzle for tempering bottles and other glass containers. 2,288,012; June 30.

Monroe, George S. (See Corson, B. B., and Monroe.)

Montgomery, Charles W., Aspinwall, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Production of iso-butane. 2,288,477; June 30.

Moore Dry Kiln Company, The. (See Cobb, James Forrest, assignor.)

Moore, Florence, Gibsonia, Pa. Junction box for electrical circuits. 2,288,139; June 30.

Moore, Marjorie B. (See Vliet, E. B., and Moore.)

Morelock, Oliver J., Short Hills, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Ultra high frequency oscillator. 2,288,294; June 30.

Morey, Glen H., Terre Haute, Ind., assignor to Phillips Petroleum Company. Preparing chromium oxide gel catalysts. 2,288,320; June 30.

Morgan, Leslie B. (See Bacon, R. G. R., Baird, Habgood, and Morgan.)

Morgan, Willard L., Edgewood, R. I., assignor to Sylvania Industrial Corporation, Fredericksburg, Va. Plasticized article of manufacture. 2,288,413; June 30.

Morley, Joseph, assignor of one-eighth to W. Wilson, as trustee, and one-eighth to F. J. McKane, Los Angeles, Calif. Luminous vapor lamp. 2,288,250; June 30.

Morrell, Jacque C., assignor to Universal Oil Products Company, Chicago, Ill. Stabilization of gasoline and the like. 2,287,598; June 30.

Morrison, Willard L., Lake Forrest, Ill. Air conditioned receptacle. 2,288,538; June 30.

Morrison, Willard L., Lake Forest, Ill. Radio device. 2,288,539; June 30.

Mossberg, Harold F., assignor to O. F. Mossberg & Sons, Inc., New Haven, Conn. Firearm. 2,288,202; June 30.

Mossberg, O. F., & Sons, Inc. (See Mossberg, Harold F., assignor.)

Moths, Raymond J., Shorewood, Wis. Wall form support. 2,288,365; June 30.

Motion Picture Engineering Co. (See Ditty, A. V., and Bradford, assignors.)

Moyer, Elmo E., Scotia, N. Y., and C. V. Bullen, Lubbock, Tex., assignors to General Electric Company. Electric valve control circuit. 2,288,295; June 30.

Moynahan, Roy D. B., Birmingham, and E. K. Pilcher, assignors to Bohn Aluminum & Brass Corporation, Detroit, Mich. Making connectors. 2,288,013; June 30.

Muehter, Manfred W., Nutley, N. J., assignor to American District Telegraph Company, New York, N. Y. Double signal system. 2,287,816; June 30.

Mueller Co. (See Krumsiek, E., and Kileen, assignors.)

Mullen, James F., River Rouge, and W. R. Brooks, Dearborn, Mich., assignors to Electric Slug Rejector and Manufacturing Corporation. Device for the automatic detection of genuine coins. 2,288,014; June 30.

Müller, Adolf. (See Fleischhauer, R., and Müller.)

Mumma, Harold J., Glendale, assignor to Ahlberg Company, Los Angeles, Calif. Marking die. 2,288,015; June 30.

Mungen, Theodore, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Signboard. 2,288,570; June 30.

Munny Manufacturing Company. (See Getgey, John J., assignor.)

Munro, Harold W., Providence, R. I. Doll. 2,288,296; June 30.

Murch, John H., East Orange, N. J., assignor to American Can Company, New York, N. Y. Can end assembling machine. 2,287,817; June 30.

Murphy, Paul B., South Nyack, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic toll switching telephone system. 2,288,251; June 30.

Murphy, Thomas J., Stamford, Conn. Electric reciprocating motor. 2,288,203; June 30.

Myers, F. E., & Bro. Co., The. (See Conery, W. J., and Newmier, assignors.)

Myers, Henry C., Irwin, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Vapor electric device. 2,288,016; June 30.

Nachtigall, Eduard. (See Siebel, G., and Natchigall.)

Nadler, Friedrich, Cologne-Mulheim, O. Bayer, Leverkusen-I. G.-Werk, and H. Hoyer, Frankfort-on-the-Main, Germany, assignors to General Aniline & Film Corporation. Phthalocyanine sulphonic acid chloride. 2,288,478; June 30.

Naiman, Julius M., Detroit, Mich. Controlling the flow of gases. 2,288,297; June 30.

National Automotive Fibres, Inc. ((See Stack, Robert J., assignor.)

National Cash Register Company, The. See Geller, Helmut, assignor.)

National Cash Register Company, The. (See Geller, H., and Driescher, assignors.)

National Oil Products Company. (See Griffith, Richard, assignor.)

Nees, Alpheus, R., A. N. Bennett and E. H. Hungerford, assignors to The Great Western Sugar Company, Denver, Colo. Carbonation process for purifying sugar juice. 2,288,479; June 30.

Nelson, Bert J. (See Coles, W. H., and Nelson.)

Nelson, Dale H., Water Mill, and W. D. Buckingham, Southampton, assignors to The Western Union Telegraph Company, New York, N. Y. Electronic amplifier. 2,287,942; June 30.

Nelson, Edward F., Vallejo, Calif. Stud welder. 2,287,818; June 30.

Nemeth, Otto R. (See De Vry, H. A., and Nemeth.)

Neuland, Alfons H., Cleveland, Ohio. Internal combustion engine. 2,288,017; June 30.

Neuland, Alfons H., Cleveland, Ohio. Internal combustion engine. 2,288,018; June 30.

Neuman, David G. (See Dodson, H. W., and Neuman.)

New England Foundation Company. (See Titcomb, A. C., and Cronan, assignors.)

New Process Gear Corporation. (See Dodge, Ralph L., assignor.)

New York Air Brake Company, The. (See Baker, R. E., and Thompson, assignors.)

Newby, Errett, et al. (See Odor, R. K., and Dodge, assignors.)

Newman, Frederick H. (See McCarty, L. V., Johnson and Newman.)

Newman, John M. (See Harwood, P. B., and Newman.)

Newman, William E., Moorestown, N. J., and E. S. Maris, Upper Darby, Pa., assignors to Radio Corporation of America. Time controlled radio tuning system. 2,288,019; June 30.

Newmier, Carleton H. (See Conery, W. J., and Newmier.)

Nichols, Paul B., Seminole, assignor, by mesne assignments, of one-half to Cities Service Oil Company, Bartlesville, Okla. Device for recording drilling operations. 2,287,819; June 30.

Nied, Herman F. (See Schaefer, C. C., Tollefson and Nied.)

Niles, Joseph A., Tulsa, Okla., assignor to Stanolind Oil and Gas Company. Boiler. 2,288,140; June 30.

Nitz, Herbert, Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Ringing circuit for carrier frequency communication systems. 2,288,252; June 30.

Nix, William H., Lebanon, Tenn. Adjustable waist construction. 2,287,899; June 30.

Noland, David B., and M. L. Loftin, Nashville, Tenn. Making printing screens. 2,288,020; June 30.

Norma Multikolor. (See Maucher, Hans, assignor.)

Nordlander, Birger W., and I. A. Hurst, Schenectady, N. Y., assignors to General Electric Company. Moldable composition and molded article and making the same. 2,288,321; June 30.

Nordlander, Birger W., Schenectady, N. Y., assignor to General Electric Company. Moldable copal composition and making the same. 2,288,322; June 30.

Norman, Hollis W., and R. Stech, Govans, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for marking articles. 2,288,298; June 30.

North American Rayon Corporation. (See Profft, Elmar, assignor.)

North American Rayon Corporation. (See Stoeckly, Johann J., assignor.)

Norton, Clifford, Summit, N. J., and P. Karmel, assignors to Otis Elevator Company, New York, N. Y. Control system for closures. 2,288,414; June 30.

Novi Equipment Company. (See Adler, Herman G., assignor.)

Nozicka, Franz. (See Kreidl, I., and Nozicka.)

Nystrom, Gustaf H., Columbus, Ohio. Convergent rays safety lens. 2,287,820; June 30.

O'Brien, James J., and J. Strad, Chicago, Ill. Door emergency lock. 2,288,022; June 30.

O'Donovan, Daniel, New York, N. Y. Orthopedic combined wrist joint and distal forearm support. 2,287,821; June 30.

Odor, Ralph K., Edmond, Okla., and K. Dodge, Philadelphia, Pa., assignors to J. H. Everest, E. Newby, M. W. McKenzie, W. H. Odor, R. K. Odor, H. B. Crawford, Oklahoma County, Okla., and K. Dodge, Philadelphia, Pa., as trustees. Blower. 2,287,822; June 30.

Ogden, Harold S., Erie, Pa., assignor to General Electric Company. Control system. 2,288,415; June 30.

Oliver, Wallace F., assignor to Bendix Home Appliances, Inc., South Bend, Ind. Cleaning machine. 2,288,141; June 30.

Olson, Carl, assignor to Wright Products, Inc., Minneapolis, Minn. Window stay. 2,288,540; June 30.

O'Neill, Eugene V., Waterbury, Conn. Apparatus for the treatment of hayfever. 2,288,416; June 30.

Orange Roller Bearing Co. Inc. (See Gales, Richard J., assignor.)

Ortegren, Herman A., and C. C. Howenstine, assignors to Bower Roller Bearing Company, Detroit, Mich. Machine for assembling roller bearings. 2,288,023; June 30.

Osborn Manufacturing Company, The. (See Whittle, William S., assignor.)

Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling apparatus. 2,288,545; June 30.

Oshkosh Trunks and Luggage. (See Plotkin, Joseph H., assignor.)

Ostermann, Rudolf M., Kenilworth, Ill., assignor to The Superheater Company, New York, N. Y. Train heating system. 2,288,021; June 30.

Ostlund, Albion I., and J. A. Minshull, assignors to Boeing Aircraft Company, Seattle, Wash. Landing gear warming switch cut-out. 2,288,204; June 30.

O'Sullivan, Maurice J., Kansas City, Mo. Educational device. 2,287,943; June 30.

Otis Elevator Company. (See Norton, C., and Karmel, assignors.)

Outboard Marine & Manufacturing Company. (See Irgens, Finn T., assignor.)

Owens-Corning Fiberglas Corporation. (See Collins, Howard W., assignor.)

Owens-Corning Fiberglas Corporation. (See Modigliani, Piero, assignor.)

Packard, David. (See Varian, R. H., and Packard.)

Paget, Win W., Michigan City, Ind., assignor to Sullivan Machinery Company. Drilling apparatus. 2,288,541; June 30.

Paget, Win W., Michigan City, Ind., assignor to Sullivan Machinery Company. Drilling apparatus. 2,288,542; June 30.

Paget, Win W., Michigan City, Ind., assignor to Sullivan Machinery Company. Drilling apparatus. 2,288,543; June 30.

Paige, Richard E., Flushing, N. Y. Display container. 2,288,205; June 30.

Paille, Eugene, Los Angeles, assignor to General Controls Co., Glendale, Calif. Manual reset valve. 2,288,417; June 30.

Painter, Frank F., and W. G. Smith, Tarentum, Pa., assignors to Pittsburgh Plate Glass Company. Sash pulley brake. 2,288,546; June 30.

Palumbo, Vincent, assignor of one-fourth to J. E. Bevington, Cleveland, Ohio. Engine or the like. 2,288,480; June 30.

Pankratz, Howard J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Well pump. 2,288,142; June 30.

Paper Patents Company. (See Henderson, Charles L., assignor.)

Parker, Arthur L., Cleveland, Ohio. Priming valve assembly. 2,287,900; June 30.

Parker, Milton E. (See Brengman, F. C., and Parker.)

Parsons, Winchell M., Alhambra, Calif. Furnace. 2,288,366; June 30.

Parsons, Winchell M., Alhambra, Calif. Tube still. 2,288,367; June 30.

Parsons, Winchell M., Alhambra, Calif. Furnace. 2,288,368; June 30.

Partee, Watkins W., and M. Gray, assignors to E. L. Bruce Co., Memphis, Tenn. Wood finishing apparatus. 2,288,585; June 30.

Patrick, John D., Oceanport, N. J. Removable eraser for pencils. 2,288,419; June 30.

Partridge, Everett P., Beaver, assignor to Hall Laboratories, Inc., Pittsburgh, Pa. Manufacture of mixed phosphates. 2,288,418; June 30.

Pasquier, Michel, assignor to M and M Wood Working Company, Portland, Oreg. Ventilated hollow panel. 2,288,104; June 30.

Pattock, Karl, Wolfen, and E. Meier, Bitterfeld, Germany. Working up complex ammoniacal solutions of metal. 2,288,647; June 30.

Pearce, Cullen T. (See Gulliksen, F. H., Allison and Pearce.)

Pearson, Paul E., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Crown cap feeding and positioning means. 2,287,823; June 30.

Pégard, Marcel, Paris, France. Carriage control means of machine-tools. 2,288,420; June 30.

Pelcher, Walter J., and A. J. Diroff, Monroe, Mich., assignors to Woodall Industries Incorporated, Detroit, Mich. Visor construction. 2,288,481; June 30.

Peoples Trust Company of Bergen County, executor, et al. (See Every, Elmer D.)

Peremi, Edmund, Manhasset, and L. Toth, Flushing, N. Y. Window construction. 2,288,548; June 30.

Perfex Corporation. (See Cunningham, Lewis L., assignor.)

Perry, Stephen F. (See Welty, A. B., Jr., and Perry.)

Persons, Lawrence M., St. Louis County, assignor to Automatic Control Corporation, St. Louis, Mo. Gas valve. 2,288,024; June 30.

Peterman, Elmer E., Jamestown, N. Y. Device for use in handling loose bulk material. 2,287,944; June 30.

Peterson, Paul D. (See Mason, D. B., and Peterson.)

Pfizer, Charles, & Company. (See Kane, J. H., and Hansen, assignors.)

Philco Radio and Television Corporation. (See Bradley, William E., assignor.)

Philco Radio and Television Corporation. (See Smith, Newland F., Jr., assignor.)

Philip Carey Manufacturing Company, The. (See Moeller, William J., assignor.)

Phillips Petroleum Company. (See Morey, Glen H., assignor.)

Phillips Petroleum Company. (See Pankratz, Howard J., assignor.)

Phillips, Warren E. (See Jones, P. C., and Phillips.)

Phosphate Recovery Corporation. (See Greene, Ernest W., assignor.)

Phosphate Recovery Corporation. (See Tartaron, F. X., Cole and Duke, assignors.)

Pier, Mathias, Heidelberg, and F. Christmann, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to Standard Catalytic Company. Production of improved oils for lubricating purposes. 2,287,901; June 30.

Pierpont, Douglas M., Hamden, assignor to The Snow & Petrelli Mfg. Co., New Haven, Conn. Reverse gear. 2,288,206; June 30.

Pihl, Paul E., and C. F. Coe, United States Navy. Fuel delivery station. 2,287,824; June 30.

Pike, John S. (See Speed, F. H., and Pike.)

Pilcher, Edward K. (See Moynahan, R. D. B., and Pilcher.)

Pileggi, Vincent R., Philadelphia, Pa. Combined comb and thinning razor. 2,288,299; June 30.

Pittsburgh Corning Corporation. (See Gregory, John J., assignor.)

Pittsburgh Plate Glass Company. (See Hall, Frank W., assignor.)

Pittsburgh Plate Glass Company. (See Knudsen, Percy E., assignor.)

Pittsburgh Plate Glass Company. (See Painter, F. F., and Smith, assignors.)

Pittsburgh Plate Glass Company. (See Whitmire, L. S., and Juncker, assignors.)

Plax Corporation. (See Hobson, John R., assignor.)

Plensler, Alexander W. (See Marholz, R. C., and Plenzler.)

Plohberger, Charles, New York, N. Y. Safety stove-cabinet. 2,288,482; June 30.

Plotkin, Joseph H., Chicago, Ill., assignor to Oshkosh Trunks and Luggage. Luggage closure construction. 2,288,105; June 30.

Polnton, John E., Peterborough, England, assignor to Baker Perkins Incorporated, Saginaw, Mich. Conveyer. 2,288,571; June 30.

Pomeroy, Allen F., Long Island City, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic frequency control system. 2,288,025; June 30.

Poniatoff, Alexander M., Redwood City, Calif. Apparatus for hair waving. 2,288,369; June 30.

Porter, H. K., Company. (See Evans, Thomas M., assignor.)

Postlewaite, William R., assignor to Standard Oil Company of California, San Francisco, Calif. Apparatus for cooling coated pipe. 2,287,825; June 30.

Postlewaite, William R., and R. A. Vertrees, assignors to Standard Oil Company of California, San Francisco, Calif. Mastic nozzle for coating pipe. 2,287,826; June 30.

Postlewaite, William R., assignor to Standard Oil Company of California, San Francisco, Calif. Pipe coating coupler. 2,287,827; June 30.

Postlewaite, William R., assignor to Standard Oil Company of California, San Francisco, Calif. Coating pipe. 2,287,830; June 30.

Pott, August F., assignor to Mercedes Buromaschinen-Werke Aktiengesellschaft, Zella-Mehlis, Thuringia, Germany. Calculating machine. 2,288,323; June 30.

Power Equipment Company. (See Hanley, Stanley M., assignor.)

Pray, Henry A. H., Columbus, assignor, by mesne assignments, to The Youngstown Sheet and Tube Company, Youngstown, Ohio. Method and apparatus for heating metal pipe or the like. 2,288,483; June 30.

Prince, David C., Swarthmore, Pa., assignor to General Electric Company. Electric circuit breaker. 2,288,324; June 30.

Printing Machinery Company, The. (See Schlattner, Albert B., assignor.)

Production Plating Works, Inc. (See Enghauser, Winford L., assignor.)

Profft, Elmar, Berlin-Lichterfelde, Germany, assignor to North American Rayon Corporation, New York, N. Y. Viscose spinning solution. 2,288,106; June 30.

Progressive Welder Company. (See Purat, Hugo, assignor.)

Puchy, Clarence G., assignor to The Hoover Company, North Canton, Ohio. Refrigeration. 2,287,902; June 30.

Purat, Hugo, assignor to Progressive Welder Company, Detroit, Mich. Welding machine. 2,287,945; June 30.

Quillery, Henri P. M., La Garenne-Colombes, France. Electrical switch, particularly for control of warning and lighting devices for vehicles. 2,288,207; June 30.

Rabinowicz, Mechel, London, England. Controlling the supply of gas to burners. 2,288,208; June 30.

Racz, Ernest, assignor to Burroughs Adding Machine Company, Detroit, Mich. Printing machine. 2,288,107; June 30.

Radio Corporation of America. (See Brian, Joseph, assignor.)

Radio Corporation of America. (See Byrnes, Irving F., assignor.)

Radio Corporation of America. (See Davis, N. E., Robb, and Craymer, assignors.)

Radio Corporation of America. (See Hyde, Thomas B., assignor.)

Radio Corporation of America. (See Iams, Harley A., assignor.)

Radio Corporation of America. (See Kelly, Norval R., assignor.)

Radio Corporation of America. (See Newman, W. E., and Maris, assignors.)

Radio Corporation of America. (See Spencer, James A., assignor.)

Radio Corporation of America. (See Stablein, Wilhelm, assignor.)

Radio Corporation of America. (See Summers, Frank E., assignor.)

Radio Corporation of America. (See Townsend, Charles L., assignor.)

Radio Corporation of America. (See Wing, Arthur K., Jr., assignor.)

Radio Corporation of America. (See Zepler, Erich E., assignor.)

Ramsden, George A., and G. J. R., Lambeth, Ontario, Canada. Container. 2,288,549; June 30.

Ramsden, George A., and G. J. R., Lambeth, Ontario, Canada. Container. 2,288,550; June 30.

Ramsden, George J. R. (See Ramsden, George J. R., and G. A.)

Rathbun, Merrill L., Salamanca, N. Y. Closed receptacle or case. 2,287,903; June 30.

Rathbun, Merrill L., Salamanca, N. Y. Receptacle 2,288,421; June 30.

Rawlings Manufacturing Company. (See Latina, Harry B., assignor.)

Ray, William A., Glendale, Calif. Control mechanism. 2,288,300; June 30.

Raybestos-Manhattan, Inc. (See Stanley, Frederick C., assignor.)

Rea, John A., Shaker Heights, Ohio, assignor to The Linde Air Products Company. Method of and apparatus for initiating metal-removing operations. 2,288,026; June 30.
Read, Chester L., Westfield, N. J., assignor to Standard Oil Development Company. Purification and reconcentration of spent sulphuric acid. 2,288,370; June 30.
Rearick, John S., Westfield, assignor to The M. W. Kellogg Company, Jersey City, N. J. Regeneration of catalysts by combustion. 2,288,484; June 30.
Reconstruction Finance Corporation. (See De Smet, Edgard C., assignor.)
Reconstruction Finance Corporation. (See Tabb, Warner T., assignor.)
Reineck, Edward A. (See Davis, H. L., and Reineck.)
Reinforced Paper Bottle Corporation. (See Rider, Granville S., assignor.)
Reliable Electric Company. (See Jugle, Leonard, assignor.)
Renard, Roland E., San Francisco, Calif., assignor to American Can Company, New York, N. Y. Can closing machine. 2,287,831; June 30.
Research Corporation. (See Johns, Winthrop A., assignor.)
Reuter, Edmund A., East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Introducing mercury into vacuum devices. 2,288,253; June 30.
Revere Camera Company. (See Sperry, Philmore F., assignor.)
Reyburn, John R., Fairfield, Conn., assignor to Magazine Repeating Razor Company, New York, N. Y. Razor. 2,288,301; June 30.
Reyburn, John R. Fairfield, and W. H. Ebelhare, Nichols, Conn., assignors to Magazine Repeating Razor Company, New York, N. Y. Razor. 2,288,302; June 30.
Reynolds, Harold C., Jr., Elizabeth, N. J., assignor to Standard Oil Development Company. Antiskinning and weather resisting agents for drying oil compositions. 2,287,946; June 30.
Reynolds, Ralph K., and B. D. Wells, assignors to The Mallory Hat Company, Danbury, Conn. Felting hat bodies. 2,288,572; June 30.
Reynolds, Ralph K., and B. D. Wells, assignors to The Mallory Hat Company, Danbury, Conn. Crozing and stacking mechanism for hat bodies. 2,288,573; June 30.
Reynolds, Reginald J. W., and E. E. Walker, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Derivatives of phenols. 2,287,904; June 30.
Ricardo, Harry R., London, England. Internal combustion engine. 2,288,326; June 30.
Ricards, Charles L. (See Wood, Henry A. W.)
Rich, Charles A., and W. E. Twamley, Providence, R. I., assignors to Browne and Sharpe Manufacturing Company. Spindle driving mechanism for screw and similar machines. 2,288,254; June 30.
Richardson, Max C., assignor to Iron Fireman Manufacturing Company, Portland, Oreg. Furnace. 2,288,028; June 30.
Richmond, Howard B., G. K. Dickerman and W. F. Thiele, assignors to Consolidated Water Power and Paper Company, Wisconsin Rapids, Wis. Coating machine. 2,287,905; June 30.
Rider, Granville S., assignor to Reinforced Paper Bottle Corporation, New York, N. Y. Spinning device for square container end closure seams. 2,288,485; June 30.
Ridgway, William F., assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Cutoff machine. 2,287,833; June 30.
Rieche, Alfred, Wolfen, Kreis Bitterfeld, and A. Gnuechtel, Wiederitzsch, near Leipzig, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Solvents for organic film-forming materials 2,288,388; June 30.
Rivlin, Ronald S., Wembley, England, assignor to Hazeltine Corporation. Multiple-frequency oscillator. 2,288,486; June 30.
Robb, Frederick G. (See Davis, N. E., Robb, and Craymer.)
Roberts, George, Jr. (See Keith, P. C., Jr., and Roberts, Jr.)
Robinson, Charles A., Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Heel-seat fitting machine. 2,287,832; June 30.
Robinson, David M., assignor to The Stanley Works, New Britain, Conn. Cabinet latch. 2,288,171; June 30.
Rodier, Jeanne L., Worcester, Mass. Photographic film carrier. 2,288,325; June 30.
Rohm, Alfred, Leverkusen, I.G.-Werk, Germany, assignor to General Aniline & Film Corporation, New York, N. Y. Mixed ureas. 2,288,422; June 30.
Roll, Carl, Union, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Electrical conductor support. 2,288,108; June 30.
Root, Ralph R., Lakewood, Ohio. Incubation of eggs. 2,287,906; June 30.
Root, Ralph R., Kansas City, Kans., assignor of one-half to D. W. Gregory, Washington, D. C. Eye protector for riders. 2,288,423; June 30.
Rosen, Abel, London, assignor to Siemens Brothers & Co., Limited, Westminster, London, England. Electric communication system. 2,288,487; June 30.
Ross, James E., Affton, Mo. Eyeglass case. 2,288,255; June 30.
Rothschild, Julius, Sonneberg, Germany, assignor to Geo. Borgfeldt Corporation, New York, N. Y. Movable doll and the like. 2,288,371; June 30.
Rowe, George E. Wethersfield, Conn., assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for forming hollow glass articles. 2,288,029; June 30.
Rowland, Davidge H. (See Croskey, C. D., and Rowland.)
Ruben, Samuel, New Rochelle, N. Y. Gas discharge device and circuit therefor. 2,287,834; June 30.
Ruiz, Michael, Chicago, Ill. Apparatus for photographing titles on motion picture films. 2,288,488; June 30.
Rump, Heinrich, Leverkusen-Wiesdorf, Germany. Insert in rotary furnaces. 2,288,372; June 30.
Russell, John D., Sugarcreek Township, Venange County, and H. Thies, Franklin, Pa., assignors to Joy Manufacturing Company. Material handling apparatus. 2,288,109; June 30.
Ryan, Parnell C. (See Ryan, Rose M., Robert M., and Parnell C.)
Ryan, Robert M. (See Ryan, Rose M., R. M., and P. C.)
Ryan, Rose M., R. M., and P. C., Waukesha, Wis. Bracket. 2,288,303; June 30.
Sadler Bros., Inc. (See Sadler, Thomas G., assignor.)
Sadler, Thomas G., Attleboro, Mass., assignor to Sadler Bros., Inc. Forming reamer tape. 2,288,574; June 30.
St. Jacques, Eudore J., Dayton, Ohio. Spot knife. 2,288,555; June 30.
St. Laurent, John J., Chickasaw, Ala., assignor, by mesne assignments, to International Paper Company, New York, N. Y. Garment bag. 2,287,912; June 30.
St. Pierre, Henry, Worcester, Mass. Chain link. 2,287,913; June 30.
Sallinger, Hans, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Transmission line structure. 2,288,030; June 30.
Sammons, Benjamin R., assignor of one-half to The Atlanta Envelope Co., Atlanta, Ga. Suction head. 2,288,209; June 30.
Sanders, Philip F. (See Gowing, D. M., and Sanders.)
Sandmeyer, William K. (See Cisar, W. A., and Sandmeyer.)
Satterlee, Howard A., Dayton, Ohio, assignor to Submarine Signal Company, Boston, Mass. Apparatus for controlling rotation. 2,287,835; June 30.
Saunders, Clifford. (See Allen, H. G., and Saunders.)
Schaafsma, Albert. (See Huijser, H. W., and Schaafsma.)
Schaefer, Charles C., and S. A. Tollefson, Oaklyn, and H. F. Nied, Camden, N. J. Feed mechanism. 2,288,031; June 30.
Scheller, Arthur P., Irvington, N. J., assignor to The Linde Air Products Company. Method of and apparatus for initiating desurfacing operations. 2,288,027; June 30.
Scherer, Robert P., Detroit, Mich. Apparatus for forming and filling capsules. 2,288,327; June 30.
Schettler, Theodore W., Jr., Indianapolis, Ind. Baby bed. 2,287,907; June 30.
Schiff, Sigmund, assignor to The J. H. Day Company, Cincinnati, Ohio. Bakery equipment or the like. 2,288,424; June 30.
Schlattner, Albert B., assignor to The Printing Machinery Company, Cincinnati, Ohio. Machine for die cutting paper. 2,288,304; June 30.
Schlumberger, Marcel, Paris, France. Core taking projectile. 2,288,210; June 30.
Schmeiser, Theodore G., Fresno, Calif. Earth working implement. 2,288,110; June 30.
Schmeling, William H., Edgerton, Wis. Self-feeder for livestock. 2,288,489; June 30.
Schmid, Julius, Inc. (See Fingado, G. A., and Ludwig, assignors.)
Schmidt, Henry, Detroit, Mich. Internal combustion engine. 2,287,908; June 30.
Schulz, Hermann. (See Walter, H., and Schulz.)
Schulz, Hermann, Neu-Isenburg, Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to Chemical Marketing Company Inc., New York, N. Y. Production of beta-alkoxyaldehydes. 2,288,211; June 30.
Schwartz, Hans-Fredi. (See Gaegel, A., and Schwartz.)
Schweitzer & Conrad, Inc. (See Triplett, Hugh A., assignor.)
Scott, Don O., Birmingham, Mich., assignor to Bendix Home Appliances, Inc., South Bend, Ind. Washing machine. 2,288,111; June 30.
Scott-Paine, Hubert, Hythe-Southampton, England. High-speed motorboat. 2,288,490; June 30.
Sears, Roebuck and Co. (See Sexton, Lawrence E., assignor.)
Segelin, David, and S., Rochester, N. Y. Crease construction for trousers. 2,288,212; June 30.
Segelin, Solomon. (See Segelin, David and S.)
Segol, Emile A. M. A. (See Canac, L. H. F., and Segol.)
Sell, Gilbert E., Cynwyd, Pa. Open hearth furnace. 2,288,491; June 30.
Sewell, Benjamin W, Tulsa, Okla., assignor to Standard Oil Development Company. Expansion chamber for pressure core barrels. 2,287,909; June 30.

Sexton, Lawrence E., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Pneumatic tire. 2,288,328: June 30.
Shack, Irving. (See Wilson, E. A., and Shack.)
Shanahan, Richard J., Evanston, Ill. Clothes hanger. 2,288,551; June 30.
Shawinigan Chemicals, Limited. (See Manson, George J., assignor.)
Sheffer, Walter. (See Kaffenberger, N. F. A., and Sheffer.)
Shell Development Company. (See Dunn, C. L., and Conaughy, assignors.)
Shell Development Company. (See Huijser, H. W., and Schaafsma, assignors.)
Shepherd, William G., Bayside, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission through space discharge device. 2,288,256; June 30.
Sheppard, Creedy C., New York, N. Y. Smoke detector. 2,288,143; June 30.
Sheridan Iron Works, The. (See Hawkes, Thomas B., assignor.)
Sheridan, T. W. & C. B., Company. (See Hawkes, Thomas B., assignor.)
Shoeld, Mark, assignor to The Davison Chemical Corporation, Baltimore, Md. Treating superphosphates. 2,288,112; June 30.
Shoemaker, Richard W., Woodbury, assignor to Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Weatherproof insulated electric wire. 2,287,947; June 30.
Sickinger, William H., St. Joseph, assignor to The Malleable Steel Range Manufacturing Company, South Bend, Ind. Electric range. 2,288,144; June 30.
Siebel, Gustav, and E. Nachtigall, Bitterfeld, Germany. Surface treating objects of cast magnesium base alloys. 2,288,552; June 30.
Siegfus, Benedict O., Bakersfield, Calif. Friction catch. 2,288,145; June 30.
Siemens Brothers & Co. (See Rosen, Abel, assignor.)
Silvernail, Albert D., Utica, N. Y. Stretcher. 2,288,492; June 30.
Simborg, Edward J., assignor to Inland Steel Company, Chicago, Ill. Drive spindle. 2,288,425; June 30.
Sinclair, Charles W., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Brake. 2,288,146; June 30.
Singer Manufacturing Company, The. (See Roll, Carl, assignor.)
Sinks, Allen T. (See Hoare, S. C., and Sinks.)
Skeats, Wilfred F., Lansdowne, Pa., assignor to General Electric Company. Circuit breaker testing apparatus. 2,288,331; June 30.
Skinner Irrigation Company, The. (See Coles, W. H., and Nelson, assignors.)
Skoog, Robert W. (See Hanson, H., and Skoog.)
Slack, Albert N., Bakersfield, Calif. Tool for holding dental instruments for sharpening. 2,287,910; June 30.
Slezak, Frank J., San Francisco, Calif. Undergarment. 2,288,553; June 30.
Smart, Clarence F., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Indium plating 2,287,948; June 30.
Smirnoff, Alexander G., New York, N. Y. Container. 2,288,113; June 30.
Smith, Burgess W., assignor to The Todd Company, Inc., Rochester, N. Y. Safety paper. 2,288,147; June 30.
Smith, Frank B., and J. N. Hansen, assignors to The Dow Chemical Company, Midland, Mich. Parasiticides. 2,287,836; June 30.
Smith, Harry F., Lexington, assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,288,114; June 30.
Smith, Harry M., Seattle, Wash. Carpenter's framing tool. 2,288,213; June 30.
Smith, Lawrence H., assignor to General American Aerocoach Company, Chicago, Ill. Mounting or joint strip. 2,288,329; June 30.
Smith, Lee L, and H. E. Ungnade, assignors to Regents of the University of Minnesota, Minneapolis, Minn. Vitamin E substitute and making it. 2,287,949; June 30.
Smith, Newland, F., Jr., Wyndmoor, assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Synchronizing system and method. 2,288,554; June 30.
Smith, S. & Sons (Motor Accessories) Limited. (See Meredith, Frederick W., assignor.)
Smith, Warren M., and C. J. Wilson, Elizabeth, N. J., assignors to Standard Oil Development Company. Electrical conductor with improved hydrocarbon insulator. 2,288,373; June 30.
Smith, William A., Charlotte, N. C. Illumination means for handbags and the like. 2,288,493; June 30.
Smith, William E., Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio. Automatic welding apparatus. 2,288,032; June 30.
Smith, William G. (See Painter, F. F., and Smith.)
Smyser, James S., deceased, late of Quincy, Mass., by Granite Trust Company, Quincy, Mass., executor, assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Method and apparatus for applying coating materials. 2,287,837; June 30.
Snow & Petrelli Mfg. Co., The. (See Pierpont, Douglas M., assignor.)
Snyder, Eugene L., Canton, assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,287,911; June 30.
Societe Anonyme Dite: "Caoutchouc Reno." (See Tiberghien, Marcel, assignor.)
Societe "Goodrich" S. A. (See Boyer, R., Marin, and Gaestel, assignors.)
Socony-Vacuum Oil Company. (See Lincoln, Bert H., assignor.)
Socony-Vacuum Oil Company, Incorporated. (See Lincoln, B. H., Byrkit, and Steiner, assignors.)
Soldanels, Cecil S., Kansas City, Mo. Vacuum sweeper. 2,288,115; June 30.
Solvay Process Company, The. (See Beekhuis, H. A., Jr., and Gaskins, assignors.)
Somes, Howard E., Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Producing autofrettaged hubs. 2,288,033; June 30.
Somes, Howard E., Grosse Pointe Park, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Electric transmission system. 2,288,034; June 30.
Somes, Howard E., Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Heat treating apparatus. 2,288,035; June 30.
Somes, Howard E., Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Induction heat treating. 2,288,036; June 30.
Somes, Howard E., Detroit, Mich., assignor to Budd Induction Heating Inc., Philadelphia, Pa. Clutch. 2,288,037; June 30.
Somes, Howard E., Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Heat treating apparatus. 2,288,038; June 30.
Somes, Howard E., Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Heat-treating apparatus. 2,288,039; June 30.
Somes, Howard E., Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Work holder for heat-treating apparatus. 2,288,040; June 30.
Somes, Howard E., Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Induction heat-treating apparatus. 2,288,041; June 30.
Spatta, George. (See Gettig, J. H., and Spatta.)
Speed, Francis H., Lynnfield, and J. S. Pike, assignors to Thomson-Gibb Electric Welding Company, Lynn, Mass. Chain welding. 2,288,494; June 30.
Spencer, James A., Teaneck, N. J., assignor to Radio Corporation of America. Phasing distributor brushes in printing telegraphs. 2,288,257; June 30.
Sperry, Philmore F., assignor to Revere Camera Company, Chicago, Ill. Intermittent film feeding means. 2,288,148; June 30.
Sperry Products, Inc. (See Haight, Norman L., assignor.)
Sperry Products, Inc. (See Zeltlin, Alexander, assignor.)
Spilman, Lila H., Knoxville, Tenn. Dispensing carton. 2,288,042; June 30.
Springfield Wire & Tinsel Co. (See Hennessy, Daniel E., assignor.)
Stäblein, Wilhelm, Berlin, Germany, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Frequency modulation. 2,288,575; June 30.
Stack, Robert J., Waterford, N. Y., asignor to National Automotive Fibres, Inc., Detroit, Mich. Filter material. 2,288,426; June 30.
Staelin, Gustav. (See Arledter, F., and Allina, assignors.)
Standard Alcohol Company. (See Brooks, Benjamin T., assignor.)
Standard Catalytic Company. (See Linckh, Eduard, assignor.)
Standard Catalytic Company. (See Mikeska, L. A., and Lieber, assignors.)
Standard Catalytic Company. (See Pier, M., and Christmann, assignors.)
Standard Catalytic Company. (See Welty, A. B., Jr., and Perry, assignors.)
Standard Oil Company. (See Carpenter, Morris T., assignor.)
Standard Oil Company of California. (See Bryan, Lloyd, assignor.)
Standard Oil Company of California. (See Postlewaite, William R., assignor.)
Standard Oil Company of California. (See Postlewaite, W. R., and Vertrees, assignors.)
Standard Oil Development Company. (See Davis, Garland H. B., assignor.)
Standard Oil Development Company. (See Ellis, Carleton, assignor.)
Standard Oil Development Company. (See Howell, Lynn G., assignor.)
Standard Oil Development Company. (See Hulse, S. H., and Collins, assignors.)
Standard Oil Development Company. (See Read, Chester L., assignor.)
Standard Oil Development Company. (See Reynolds, Harold C., Jr., assignor.)
Standard Oil Development Company. See Sewell, Benjamin W., assignor.)
Standard Oil Development Company. (See Smith, W. M., and Wilson, assignors.)
Stanley, Frederick C., Bridgeport, Conn., assignor to Raybestos-Manhattan, Inc., Passaic, N. J. Brake lining drilling support. 2,287,914; June 30.

Stanley, Joseph, Jackson Heights, N. Y., assignor to American Lecithin Company, Cleveland, Ohio. Manufacturing confection and product. 2,287,838; June 30.
Stanley Works, The. (See Robinson, David Malcolm, assignor.)
Stanolind Oil and Gas Company. (See Niles, Joseph A., assignor.)
Stanton, Thomas L., Ruislip, assignor to The Bell Punch Company Limited, London, England. Adjustable electrical resistance. 2,288,043; June 30.
Stearn, William T. (See Elvin, W. J., and Stearn.)
Stech, Richard. (See Norman, H. W., and Stech.)
Steele, James W., North Kansas City, Mo. Lawn edging, weeding, and soil-working tool. 2,288,374; June 30.
Steiner, Frank G., Miami Beach, Fla., and R. G. Birr, Lombard, Ill., assignors to Steiner Sales Company, Salt Lake City, Utah. Dispensing cabinet and servicing. 2,288,332; June 30.
Steiner Sales Company. (See Belden, Charles W., assignor.)
Steiner Sales Company. (See Steiner, F. G., and Birr, assignors.)
Steiner, Waldo L. (See Lincoln, B. H., Byrkit, and Steiner.)
Stemme, Norman J., St. Louis, Mo. Glass. 2,288,044; June 30.
Stephens, Thomas J., New York, N. Y. Roasting cocoa beans. 2,288,045; June 30.
Stevenson, Ralph A., Los Angeles, Calif. Purification of petroleum contaminated waters. 2,288,330; June 30.
Stillwagon, Crawford K., Houston, Tex. Snatch block. 2,288,116; June 30.
Stoeckly, Johann J., Teltow-Seehof, Germany, assignor to North American Rayon Corporation, New York, N. Y. Spinning. 2,287,839; June 30.
Stone, Frederick W., Chagrin Falls, Ohio. Wall support. 2,288,495; June 30.
Stong, Walter D., Flint, Mich. Trailer brake control. 2,288,046; June 30.
Strad, James. (See O'Brien, J. J., and Strad.)
Stratton, Frank E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Relief valve. 2,287,840; June 30.
Sturtevant, B. F., Company. (See Allardice, Thomas B., assignor.)
Submarine Signal Company. (See Satterlee, Howard A., assignor.)
Sullivan, John D., and C. R. Austin, assignors to Battelle Memorial Institute, Columbus, Ohio. Ceramic bodies and making the same. 2,288,047; June 30.
Sullivan Machinery Company. (See Curtis, J. C., and Gartin, assignors.)
Sullivan Machinery Company. (See Osgood, Charles F., assignor.)
Sullivan Machinery Company. (See Paget, Win W., assignor.)
Summers, Frank E., near Memphis, Mo., assignor to Radio Corporation of America, New York, N. Y. Radio system. 2,288,214; June 30.
Superheater Company, The. (See Barnes, John A., assignor.)
Superheater Company, The. (See Ostermann, Rudolf M., assignor.)
Swedberg, Fred, Graceville, Minn. Power hay stacker. 2,288,496; June 30.
Sylvania Industrial Corporation. (See Morgan, Willard L., assignor.)
Tabb, Warner T., Brooklyn, assignor by mesne assignments to Reconstruction Finance Corporation, New York, N. Y. Fluid transfer apparatus. 2,287,841; June 30.
Tabb, Warner T., Brooklyn, assignor by mesne assignments to Reconstruction Finance Corporation, New York, N. Y. Valve. 2,287,842; June 30.
Tartaron, Francis X., A. T. Cole, and J. B. Duke, Mulberry, Fla., assignors to Phosphate Recovery Corporation, New York, N. Y. Concentration of potash ores. 2,288,497; June 30.
Taubert, Bernard. (See Taubert, Marcel, Paul, and Bernard.)
Taubert, Marcel, P. and B., Geneva, Switzerland. Pusher device for chronographs. 2,288,215; June 30.
Taubert, Paul. (See Taubert, Marcel, P. and B.)
Taylor, Eben D., assignor to Tomkins-Johnson Company, Jackson, Mich. Riveting machine. 2,288,048; June 30.
Taylor, Eric H., Brookside, Combs, England. Electrically heated clothing and equipment. 2,287,915; June 30.
Taylor, Taylor & Hobson Limited. (See Warmisham, Arthur, assignor.)
Teletypesetter Corporation. (See Goetz, Maurus T., assignor.)
Therrien, Robert F., assignor of one-half to H. A. Luelf, Toledo, Ohio. Clogged sewer cutting head. 2,287,916; June 30.
Thiele, Max. (See Greune, H., Thiele, Langbein, and Maennchen.)
Thiele, William F. (See Richmond, H. B., Dickerman, and Thiele.)
Thies, Henry. (See Russell, J. D., and Thies.)
Thoma, Leo. (See Kindelmann, A., and Thoma.)
Thomas, Charles L., and J. D. Danforth, assignors to Universal Oil Products Company, Chicago, Ill. Manufacture of catalytic material. 2,287,917; June 30.
Thompson, Glenn A. (See Baker, R. E., and Thompson.)
Thomson-Gibb Electric Welding Company. (See Speed, F. H., and Pike, assignors.)
Tibbetts, Raymond W., Camden, Maine. Piezoelectric device. 2,287,950; June 30.
Tiberghien, Marcel, assignor to Societe Anonyme dite: "Caoutchouc Reno", Muizon, France. Rubber covered paving block. 2,287,844; June 30.
Tillman, Richard J., Brooklyn, and M. K. Zinn, Manhasset, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone set circuit. 2,288,049; June 30.
Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Recording eye movements. 2,288,216; June 30.
Tingue, Brown & Co. (See Foster, John W., assignor.)
Titcomb, Albert C., Chestnut Hill, and M. D. Cronan, Belmont, assignors to New England Foundation Company, Inc., Boston, Mass. Sectional pile shell. 2,288,576; June 30.
Tochstone, Burt W., Haughton, assignor of one-third to M. J. Derryberry, Shreveport, La. Window blind. 2,288,260; June 30.
Todd Company, Inc., The. (See Smith, Burgess W., assignor.)
Togesen, Alva A. (See Fisher, L. E., and Togesen.)
Tollefson, Soren A. (See Schaefer, C. C., Tollefson, and Nied.)
Tomkins-Johnson Company. (See Taylor, Eben D., assignor.)
Tomkins-Johnson Company, The. (See Ward, Loyd A., assignor.)
Tormyn, Herman, assignor to General Motors Corporation, Detroit, Mich. Metal article and making same. 2,287,951; June 30.
Tormyn, Herman, assignor to General Motors Corporation, Detroit, Mich. Brake drum and making same. 2,287,952; June 30.
Toth, Louis. (See Peremi, E., and Toth.)
Townsend, Charles L., Bronxville, N. Y., assignor to Radio Corporation of America. Frequency modulation. 2,288,375; June 30.
Traumüller, Arthur J., Sr., Brooklyn, N. Y. Hook mounting. 2,288,305; June 30.
Trautman, Edmund C., Seattle, Wash. Double ratchet wrench. 2,288,217; June 30.
Trautvetter, Edward G., assignor to E. G. Budd Manufacturing Company, Philadelphia, Pa. Vehicle door and making the same. 2,288,577; June 30.
Triplett, Hugh A., Wilmette, assignor to Schweitzer & Conrad, Inc., Chicago, Ill. Fuse construction. 2,288,117; June 30.
Trist, Ronald, & Co. Limited. (See Bomyer, Leonard, assignor.)
Troxel Manufacturing Company, The. (See Kalter, Harold E., assignor.)
Trumbull Electric Manufacturing Company, The. (See Hammerly, Herman J., assignor.)
Tuppen, Edward B., Rugby, England, assignor to General Electric Company. Lamp holder. 2,288,376; June 30.
Tuttle, George O., Maywood, Ill. Cover plate for electrical outlet boxes. 2,288,377; June 30.
Tvrzicky, Francis, Chicago, Ill. Clamp. 2,287,843; June 30.
Twamley, William E. (See Rich, C. A., and Twamley.)
Ufer, Hanns. (See Hopff, H., Weickmann, and Ufer.)
Ulrich, Theodore, Detroit, Mich., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Sound deadening connection. 2,288,172; June 30.
Ulzheimer, Eugene, Jamaica, N. Y. Can gripper. 2,287,919; June 30.
Underwood, George M., Watertown, S. Dak. Mower. 2,288,498; June 30.
Ungnade, Herbet E. (See Smith, L. I., and Ungnade.)
Union Asbestos & Rubber Company. (See Astley, William F., assignor.)
United Aircraft Products, Inc. (See Mason, Joseph, assignor.)
United Autographic Register Co. (See Jensen, Louis, assignor.)
United Carbon Company. (See Hanson, H., and Skoog, assignors.)
United Shoe Machinery Corporation. (See Burby, Philip E., assignor.)
United Shoe Machinery Corporation. (See Cushman, Lee H., assignor.)
United Shoe Machinery Corporation. (See Gookin, Sylvester R., assignor.)
United Shoe Machinery Corporation. (See McLean, D. G., and Miner, assignors.)
United Shoe Machinery Corporation. (See Robinson, Charles A., assignor.)
United Shoe Machinery Corporation. (See Stratton, Frank E., assignor.)
United States Automatic Box Machinery Co. Inc. (See Wentz, Oscar W., assignor.)
United States of America, The Government of the. (See Diamond, H., and Hinman, Jr., assignors.)

Universal Oil Products Company. (See Corson, B. B., and Monroe, assignors.)
Universal Oil Products Company. (See Grosse, A. V., and Linn, assignors.)
Universal Oil Products Company. (See Grosse, A. V., and Mattox, assignors.)
Universal Oil Products Company. (See Huff, Lyman C., assignor.)
Universal Oil Products Company. (See McGrew, Edwin H., assignor.)
Universal Oil Products Company. (See Morrell, Jacque C., assignor.)
Universal Oil Products Company. (See Thomas, C. L., and Danforth, assignors.)
Universal Oil Products Company. (See Venema, Maynard P., assignor.)
University of Minnesota, Regents of the. (See Smith, L. I., and Ungnade, assignors.)
Usher, Vernon C. (See Haugh, Raymond R., assignor.)
Valley Forge Cement Company. (See Breerwood, Charles H., assignor.)
Van Horn, Irving H., East Cleveland Ohio, assignor to General Electric Company. Electric lamp. 2,288,499; June 30.
Vaporate Company Inc. (See Krupa, V. C., and Fleck, assignors.)
Varian, Russell H., and D. Packard, assignors to The Board of Trustees of The Leland Stanford Junior University, Stanford University, Calif. Thermionic vacuum tubes and circuits. 2,287,845; June 30.
Vatter, Hans, Berlin-Charlottenburg, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Lightning arrester. 2,288,050; June 30.
Vaupel, Edwin A., Chicago Heights, Ill., assignor to Victor Chemical Works. Preparing soda crackers and composition therefor. 2,288,118; June 30.
Veit, Hermann E., Parkville, assignor to The Glenn L. Martin Company, Baltimore, Md. Dimpling tool. 2,288,378; June 30.
Venema, Maynard P., assignor to Universal Oil Products Company, Chicago, Ill. Hydrocarbon conversion. 2,287,918; June 30.
Vereinigte Chemische Fabriken Freidl, Heller & Co. (See Kreidl, I., and Nozicka.)
Vertrees, Rodney A. (See Postlewaite, W. R., and Vertrees.)
Victor Chemical Works. (See Vaupel, Edwin A., assignor.)
Vigborg, Karl M. (See Lundqvist, K. H., and Vigborg.)
Vinson, Dan W., assignor to Mechanical Oil Recovery, Incorporated, Oklahoma City, Okla. Apparatus for purifying petroleum oil. 2,288,333; June 30.
Vliet, Elmer B., Lake Bluff, and M. B. Moore, Waukegan, assignors to Abbott Laboratories, North Chicago, Ill. Local anesthetic. 2,288,334; June 30.
Vogel, Kurt M., Bridgeport, Conn. Stapling device. 2,288,500; June 30.
Voigt, Max T., Reading, Pa. Compensating double presser foot. 2,288,051; June 30.
Vollmer, Leslie W., assignor to Gulf Research & Development Company, Pittsburgh, Pa. Method of and composition for producing permeable packs in wells. 2,288,556; June 30.
Vollmer, Leslie W., assignor to Gulf Research & Development Company, Pittsburgh, Pa. Method of and composition for providing permeable cement packs in wells. 2,288,557; June 30.
Vose, Fred N., assignor to Mathews Brother Co., Belfast, Maine. Friction window sash mounting. 2,288,558; June 30.
Vredenburg, Edric W., Oakland, Calif. Weighing mechanism feeder. 2,288,379; June 30.
Wagner, Hans, Frankfort-on-the-Main, Germany, assignor to Chemical Marketing Company, Inc., New York, N. Y. Production of condensation products. 2,288,306; June 30.
Wailes, Dove-Hermiston Corporation. (See Focha, William F., assignor.)
Walker, Eric E. (See Reynolds, R. J. W., and Walker.)
Walker, Frank R., Glencoe, Ill. Fabricated wood beam. 2,288,052; June 30.
Wall, Byron T., Raymond, Alberta, Canada, assignor of one-half to Hamilton Hagar, Larchmont, N. Y. Airplane. 2,288,501; June 30.
Wallis, Everett S., and E. Fernholz, Princeton, assignors to Merck & Co., Rahway, N. J. Derivatives of i-cholesterol. 2,287,846; June 30.
Walter, Charles T., assignor to Industrial Patents Corporation, Chicago, Ill. Scale shield. 2,288,053; June 30.
Walter, Hans, Frankfort-on-the-Main, and H. Schulz, Neu-Isenburg, assignors to Deutsche Gold-Und Silber-Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany. Synthetic acrolein. 2,288,335; June 30.
Walton, James C., Newton Center, assignor to Boston Woven Hose & Rubber Company, Cambridge, Mass. Making rubber flooring. 2,288,054; June 30.
Ward, Albert N., Portland, Maine. Molding ornamental panels. 2,288,559; June 30.
Ward, Ira F., Golden, Colo. Hot air heating plant. 2,288,258; June 30.
Ward, Loyd A., assignor to The Tomkins-Johnson Company, Jackson, Mich. Riveting machine. 2,288,055; June 30.
Warmisham, Arthur, assignor to Taylor, Taylor & Hobson Limited. Leicester, England. Optical objective. 2,288,502; June 30.
Warren, William B., Mount Lebanon, assignor to Fisher Scientific Company, Pittsburgh, Pa. Holder for work objects. 2,288,218; June 30.
Weaser, William H., Pittsfield, Mass. Counter shaper. 2,287,920; June 30.
Weaver, Elbert F., Calumet City, Ill., assignor to International Smelting and Refining Company. Electrolytic basic metal chromate pigment manufacture. 2,288,503; June 30.
Webb, Thomas J., Plainfield, assignor to Merck & Co., Inc., Rahway, N. J. Oxygen-evolving substances. 2,287,847; June 30.
Webber, Joseph T., Oak Park, assignor to R. B. Lacey, Chicago, Ill. Thermohydrometer. 2,288,560; June 30.
Webber, Joseph T., assignor to R. B. Lacey, Kalamazoo, Mich. Thermohydometer and calculating device therefor. 2,288,561; June 30.
Weber, Charles, assignor of one-half to O. Wellner, Outlook, Wash. Lever controlled trolling plate for outboard motors. 2,288,504; June 30.
Weickmann, August. (See Hopff, H., Weickmann and Ufer.)
Weightman, William A., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Draw rolling machine. 2,288,119; June 30.
Weinand, Klaus, Leverkusen-I. G. Werk, Germany, assignor to General Aniline & Film Corporation. Wool dyestuffs of the anthraquinone series. 2,288,219; June 30.
Welch, William W., University City, Mo., and B. Kahn, New York, N. Y., said Kahn assignor to said Welch. Deflector attachment for ventilating fans. 2,288,307; June 30.
Wellner, Otto. (See Weber, Charles, assignor.)
Wells, Burling D. (See Reynolds, R. K., and Wells.)
Welty, Albert B., Jr., E., and S. F. Perry, Roselle, N. J., assignors, by mesne assignments, to Standard Catalytic Company. Catalytic reforming of naphthas. 2,288,336; June 30.
Wentz, Oscar W., Long Island City, N. Y., assignor to United States Automatic Box Machinery Co. Inc., Roslindale, Boston, Mass. Container construction. 2,288,056; June 30.
Wessel, Carl, trustee, etc. (See Wessel, Carl, assignor.)
Wessel, Carl, assignor, by mesne assignments, to C. Wessel and L. W. Cleminson, Chicago, Ill., trustees. Casting. 2,287,848; June 30.
Western Electric Company. (See Ewaldson, Waldemar C., assignor.)
Western Electric Company. (See Holcomb, Arthur L., assignor.)
Western Electric Company. (See Norman, H. W., and Stech, assignors.)
Western Union Telegraph Company, The. (See Nelson, D. H., and Buckingham, assignors.)
Westinghouse Electric & Manufacturing Company. (See Blankenbuehler, John H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Brockenridge, Frank, assignor.)
Westinghouse Electric & Manufacturing Company. (See Dorfman, H. D., and Freese, assignors.
Westinghouse Electric & Manufacturing Company. (See Griscom, Samuel B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Grober, Othmar, assignor.)
Westinghouse Electric & Manufacturing Company. (See Gulliksen, F. H., Allison, and Pearce, assignors.
Westinghouse Electric & Manufacturing Company. (See Kalischer, Milton, assignor.)
Westinghouse Electric & Manufacturing Company. (See Lum, John C., assignor.)
Westinghouse Electric & Manufacturing Company. (See MacNeill, J. B., and Bakken, assignors.)
Westinghouse Electric & Manufacturing Company. (See Myers, Henry C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Reuter, Edmund A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Vatter, Hans, assignor.)
Weston Electrical Instrument Corporation. (See Hornbruch, Frederick W., Jr., assignor.)
Weston Electrical Instrument Corporation. (See Morelock, Oliver J., assignor.)
Weston, Roy W., Flint, Mich. Transmission mechanism. 2,288,057; June 30.
Wetteland, Rolf T., Elkins Park, Pa. Manometer. 2,288,505; June 30.
White, Harry B., assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,287,921; June 30.
White, Harry B., assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,287,922; June 30.
White, Harry B., assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,287,923; June 30.
White, Harry B., Canton, assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,287,924; June 30.
White, Sidney Y., Wilmette, Ill. Radio receiver. 2,287,925; June 30.

White, Walter O., Salina, assignor to Crouse-Hinds Company, Syracuse, N. Y. Water tight threadless connector. 2,288,506; June 30.
Whitehead, Charles R. (See Barrett, C. D., and Whitehead.)
Whitmire, Leroy S., and C. A. Juncker, Crystal City, Mo., assignors to Pittsburgh Plate Glass Company. Glass bending frame. 2,288,507; June 30.
Whittle, William S., assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Rotary brush section. 2,288,337; June 30.
Wickwire, Arthur M., Jr. (See Grupe, W. F., and Wickwire, Jr.)
Wildhaber, Ernest, Irondequoit, and C. T. Galloway, assignors to Gleason Works, Rochester, N. Y. Machine for cutting gears. 2,288,058; June 30.
Willard Storage Battery Company. (See Hill, James R., assignor.)
Williams, Alfred O., Battle Creek, assignor to Clark Equipment Company, Buchanan, Mich. Brake shoe mounting. 2,288,059; June 30.
Williams, Ivan A., Portland, Oreg. Punch and die. 2,288,308; June 30.
Williams, Robert A. (See Cochran, W. S., and Williams.)
Williams, Robert A., assignor to Ditto, Incorporated, Chicago, Ill. Manifolding method and means. 2,288,149; June 30.
Willis, Clodius H., Princeton, N. J., assignor to General Electric Company. Electric motor control system. 2,288,338; June 30.
Willis, Clodius H., Princeton, N. J., assignor to General Electric Company. Electric motor control system. 2,288,339; June 30.
Wilson, Carroll J. (See Smith, W. M., and Wilson.)
Wilson, Clarence W., Norco, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Antistick surface coating. 2,287,849; June 30.
Wilson, Edwin A., Rutherford, N. J., and I. Shack, Brooklyn, N. Y., assignors to Interchemical Corporation, New York, N. Y. Alkali-resistant iron blue pigment. 2,288,309; June 30.
Wilson, William, trustee, et al. (See Morley, Joseph, assignor.)
Wing, Arthur K., Jr., Chatham, N. J., assignor to Radio Corporation of America. High frequency radio tube. 2,288,380; June 30.
Winston, Sue, et al. (See Manning, John R., assignor.)
Winther, Martin P., trustee. (See Winther, Martin P., assignor.)
Winther, Martin P., Waukegan, Ill., assignor to M. P. Winther, trustee. Electrical apparatus. 2,287,953; June 30.
Winthrop Chemical Company. (See Klarer, Josef, assignor.)
Winthrop Chemical Company. (See Klarer, J., and Mietzsch, assignors.)
Wohanka, George J., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Control for internal combustion engines. 2,288,173; June 30.
Wolfe, Harry H., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Locomotive pilot coupler structure. 2,287,954; June 30.
Wood, Elizabeth O., executrix. (See Wood, Henry A. W., assignor.)
Wood, Henry A. W., deceased, New York, N. Y., by E. O. Wood, executrix, New York, N. Y., and C. L. Ricards, South Plainfield, N. J., assignors to Wood Newspaper Machinery Corporation, Plainfield, N. J. Printing press. 2,288,174; June 30.
Wood, John T., Bootle, Liverpool, England. Glass feeding device. 2,288,381; June 30.
Wood Newspaper Machinery Corporation. (See Wood, Henry A. W.)
Woodall Industries Incorporated. (See Pelcher, W. J., and Diroff, assignors.)
Wright, Martha H. (See Creighton, Thomas A., assignor.)
Wright Products, Inc. (See Olson, Carl, assignor.)
Wurlitzer, Rudolph, Company, The. (See Hokanson, Otto A., assignor.)
Wyman, Anthony J., Orange, N. J. Wristband grip for golf clubs. 2,288,150; June 30.
Yates, William S. S., Chicago, Ill. Making composite tubular structures. 2,288,340; June 30.
Yeomans, Lucien I., Chicago, Ill., and De W. Clausen, Akron, Ohio, assignors to Lucien I. Yeomans, Incorporated, Chicago, Ill. Turning machine. 2,288,578; June 30.
Yeomans, Lucien I., Incorporated. (See Yeomans, L. I., and Clausen, assignors.)
York Ice Machinery Corporation. (See Ehrman, Herbert H., assignor.)
Young, Horace J., Bradford, England. Grey cast iron. 2,287,850; June 30.
Youngstown Sheet and Tube Company, The. (See Pray, Henry A. H., assignor.)
Youngstown Steel Door Company, The. (See Ditchfield, Frank, assignor.)
Zaeslin, Hans H. (See Martin, H., Zaeslin, Hirt, and Glatthaar.)
Zeitlin, Alexander, New York, N. Y., assignor, by mesne assignments, to Sperry Products, Inc. Automatic speed control for continuous rolling mills. 2,287,851; June 30.
Zepler, Erich E., Chelmsford, England, assignor to Radio Corporation of America. Signal actuated alarm circuit. 2,287,926; June 30.
Zim Manufacturing Company. (See Berkman, Herbert A., assignor.)
Zinn, Manvel K. (See Tillman, R. J., and Zinn.)
Zunino, Joseph, San Francisco, Calif. Device for movement of aircraft. 2,287,955; June 30.
Zuschlag, Theodor, West Engelwood, N. J., assignor, by mesne assignments, to Lundberg Exploration S. A., Panama City, Panama. Apparatus for geoelectric and seismic investigations. 2,288,310; June 30.
Zyara, Charles A., Whiting, Ind. Blocking apparatus. 2,287,852; June 30.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 30TH DAY OF JUNE, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Composition of matter and preparing the same. J. E. Plumstead. Re. 22,127; June 30.

Separation of phases with the aid of sonic waves. D. S. McKittrick and R. E. Cornish. Re. 22,126; June 30.

LIST OF PLANT INVENTIONS

Plant, Rose. J. N. Meadowcraft, Sr. 530; June 30.

Tree, Peach. W. E. Lammerts. 528–9; June 30.

LIST OF DESIGN INVENTIONS

Air conditioning control. C. B. Stevens. 132,917; June 30.
Apron. A. Quinn. 132,924–7; June 30.
Badge or similar article. H. L. Bowman. 132,889; June 30.
Badge for motor vehicles. J. L. Heather. 132,896; June 30.
Bedstead. A. J. Buckner. 132,905; June 30.
Blade, Hair Clipper. R. Whitney. 132,900; June 30.
Bottle display unit or similar article. J. D. Buckingham. 132,904; June 30.
Bottle. A. Marquis. 132,914; June 30.
Bracelet. N. Barbieri. 132,887; June 30.
Brooch or similar article. N. Barbieri. 132,886; June 30.
Box blank or similar article. F. McIntosh. 132,923; June 30.
Button, Lapel. M. S. Keller. 132,940; June 30.
Candle, Decorative. A. V. Krieg. 132,922; June 30.
Container. D. L. Temple. 132,918; June 30.
Cooler, Beverage. M. M. Fibus. 132,894; June 30.
Diaper or similar article. N. Cadgène. 132,937; June 30.
Dump body. F. Biszantz. 132,903; June 30.
Earring. M. C. Meyer. 132,898; June 30.
Extension for power driven tool units, Driving. A. C. Koett. 132,913; June 30.
Flag or similar article, Commemorative, service. E. D. Chase. 132,906; June 30.
Floor covering, Hard-surfaced composition tile. B. J Walker. 132,930; June 30.
Game board. D. C. Alexander. 132,901; June 30.
Game board or similar article. L. J. De Broux. 132,874; June 30.
Game board. C. E. Vanek. 132,919; June 30.
Gem setting. T. E. Syman. 132,928; June 30.
Handlebar for a velocipede or the like. J. G. Rideout. 132,931; June 30.
Hanger, Garment. L. M. Marble. 132,877; June 30.
Handle, Tool. D. Chapman. 132,891; June 30.
Hat. I. B. Simon. 132,916; June 30.
Holder, Cigarette. I. Florman. 132,921; June 30.
Indicator or the like, Purchaser's profit-sharing. J. W. Goehring. 132,908; June 30.
Indicator, Oven control. T. E. Graves. 132,912; June 30.
Ironing and finishing machine, Combined. D. A. Freeman. 132,933–4; June 30.
Knife, Wallboard finishing. W. J. Brabham. 132,890; June 30.
Lipstick cover and mirror, Combined. H. Pommier. 132,936; June 30.
Moccasin. F. J. Shields. 132,929; June 30.
Pencil, Mechanical. T. Christenson, Jr. 132,920; June 30.
Pin or similar article. V. Both. 132,888; June 30.
Pipe fitting, Elbow. R. A. Corley. 132,939; June 30.
Pipe fitting, T. R. A. Corley. 132,938; June 30.
Pump head, Sprayer. H. V. Saffell. 132,915; June 30.
Radiator, Heating. C. W. Good. 132,910–11; June 30.
Refrigerator. L. F. Schmidt. 132,881–3; June 30.
Ring, Finger. G. W. Greene. 132,895; June 30.
Ring, Finger. A. P. Terryberry. 132,899; June 30.
Sachet potpourri. J. E. Vivaudou and H. G. Lubin. 132,935; June 30.
Scarf, Ascot. N. Gold. 132,909; June 30.
Shoe. T. R. Atkins. 132,885; June 30.
Stand for a hand telephone. J. Barofsky. 132,902; June 30.
Statuette or similar article. B. H. Cooper. 132,892; June 30.
Step plate for velocipides or the like. J. G. Rideout. 132,879; June 30.
Settee. F. Mastrangelo. 132,878; June 30.
Table. D. Cooper. 132,876; June 30.
Table. J. Cooper. 132,875; June 30.
Table. J. L. Fitzpatrick. 132,907; June 30.
Tray, Bed. J. R. Corbett. 132,893; June 30.
Textile fabric. J. H. Abt. 132,884; June 30.
Textile fabric. B. Leerer. 132,897; June 30.
Textile fabric. H. A. Weinberg. 132,932; June 30.
Velocipede. J. G. Rideout. 132,880; June 30.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 30TH DAY OF JUNE, 1942

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accelerator device. H. W. Hapman. 2,288,450; June 30.
Acid amide compound, Sulphonic. J. Klarer and F. Mietzsch. 2,288,530; June 30.
Acid amides, Acrylic. G. Kränzlein and M. Corell. 2,288,197; June 30.
Acid and its salts, Producing acrylic. K. M. Herstein. 2,288,566; June 30.
Acid and preparing the same, Beta oxy naphthoic. J. Burton and P. I. Bowman. 2,287,864; June 30.
Acid chloride, Phthalocyanine sulphonic. F. Nadler, O. Bayer, and H. Hoyer. 2,288,478; June 30.
Acyl aminosulphonic acids, Production of. H. Martin, H. Heinrich Zaeslin, R. Hirt, and C. Glatthaar. 2,287,896; June 30.
Adjusting means for front and rear shutters of a motion picture projector. H. F. Heidegger. 2,287,996; June 30.
Air charger for storage tanks. W. J. Conery and C. H. Newmier. 2,288,437; June 30.
Air cleaner and silencer assembly. H. G. Kamrath. 2,287,806; June 30.
Air conditioned receptacle. W. L. Morrison. 2,288,538; June 30.
Air conditioning apparatus. G. M. Kleucker. 2,288,003; June 30.
Airplane. B. T. Wall. 2,288,501; June 30.
Alcohols, Manufacturing ether. K. Burgdorf, H. Frotscher, and H. Machon. 2,288,181; June 30.
Alloy. L. H. F. Canac and E. A. M. A. Segol. 2,288,513; June 30.
Alloys, Magnesium-base. W. Kroll. 2,287,888; June 30.
Alloys, Production of powdered. P. P. Alexander. 2,287,771; June 30.
Ammoniacal solutions of metal, Working up complex. K. Pattock and E. Meier. 2,288,547; June 30.
Amplifier, Electronic. D. H. Nelson and W. D. Buckingham. 2,287,942; June 30.
Anesthetic, Local. E. B. Vliet and M. B. Moore. 2,288,334; June 30.
Antiskinning and weather resisting agents for drying oil compositions. H. C. Reynolds, Jr. 2,287,946; June 30.
Antisplitting device. R. E. Beegle. 2,287,964; June 30.
Apparatus and method for condensing liquids. R. R. Haugh. 2,287,995; June 30.
Apparatus for coating pipe. W. F. Focha. 2,288,316; June 30.
Apparatus for controlling electric circuits. S. M. Hanley. 2,287,797; June 30.
Apparatus for controlling rotation. H. A. Satterlee. 2,287,835; June 30.
Apparatus for controlling the feeding of film. W. D. Foster. 2,287,792; June 30.
Apparatus for cooling coated pipe. W. R. Postlewaite. 2,287,825; June 30.
Apparatus for detecting a definite color phase during the processing of a material. H. Lehde. 2,287,808; June 30.
Apparatus for forming and filling capsules. R. P. Scherer. 2,288,327; June 30.
Apparatus for forming axle housings. J. H. Gettig and G. Spatta. 2,288,086; June 30.
Apparatus for forming dustless carbon black. H. Hanson and R. W. Skoog. 2,288,087; June 30.
Apparatus for forming hollow glass articles. G. E. Rowe. 2,288,029; June 30.
Apparatus for geoelectric and seismic investigation. T. Zuschlag. 2,288,310; June 30.
Apparatus for increasing the flow of water in artesian wells. E. D. Every. 2,288,233; June 30.
Apparatus for manufacturing concrete pipes. E. F. Bespalow. 2,287,858; June 30.
Apparatus for marking articles. H. W. Norman and R. Stech. 2,288,298; June 30.
Apparatus for measuring mechanical power. R. Gunn. 2,287,794; June 30.
Apparatus for measuring mechanical power and/or torque. W. C. Hall. 2,287,796; June 30.
Apparatus for measuring pH. F. C. Brengman and M. E. Parker. 2,288,180; June 30.
Apparatus for operating vibratory motors. H. H. Hittson. 2,287,880; June 30.
Apparatus for photographing titles on motion picture films. M. Ruiz. 2,288,488; June 30.
Apparatus for preparing pads for shoes. G. S. Iliff. 2,288,456; June 30.
Apparatus for purifying petroleum oil. D. W. Vinson. 2,288,333; June 30.

Apparatus for straightening woven material. T. M. Berry. 2,288,387; June 30.
Apparatus for the treatment of hayfever. E. V. O'Neill. 2,288,416; June 30.
Apparatus for waving hair. A. M. Poniatoff. 2,288,369; June 30.
Apron, Long draft. F. H. Carman. 2,287,780; June 30.
Aprons, Making long draft. F. H. Carman. 2,288,391; June 30.
Arm and hand, Artificial. W. T. Carnes. 2,287,781; June 30.
Aromatics, Recovery of pure. C. L. Dunn and R. B. McConaughy. 2,288,126; June 30.
Article of wearing apparel, accessory, and the like. H. Buchsbaum and L. Becker. 2,288,313; June 30.
Artificial materials, Production of effects on. H. Ewing. 2,287,932; June 30.
Automobile lift. O. J. Bratz and W. W. Berchtold. 2,288,511; June 30.
Azo dyestuffs capable of being metallized. R. Fleischhauer and A. Müller. 2,288,518; June 30.
Bag closing and sealing apparatus. H. G. Allen and K. C. Saunders. 2,287,957; June 30.
Bakery equipment or the like. S. Schiff. 2,288,424; June 30.
Bar: *See*—
Grate bar.
Batteries, Manufacture of storage. R. A. Daily. 2,287,868; June 30.
Batteries, Manufacture of storage. J. R. Hill. 2,287,802; June 30.
Beam, Fabricated wood. F. R. Walker. 2,288,052; June 30.
Bearing setting instrument. R. L. Dodge. 2,287,767; June 30.
Bed, Baby. T. W. Schettler, Jr. 2,287,907; June 30.
Bender, Tangent. L. B. Green. 2,287,933; June 30.
Benzenesulphonamide compounds. J. Klarer. 2,288,531; June 30.
Beta-alkoxyaldehydes, Production of. H. Schulz. 2,288,211; June 30.
Beverage making device. H. F. Herman. 2,288,240; June 30.
Binder, Loose-leaf. J. P. Guinane. 2,288,189; June 30.
Blanket, Hectograph. J. Bjorksten. 2,288,152; June 30.
Blanket, Printer's. J. W. Foster. 2,287,872; June 30.
Block: *See*—
Brick or block. Rubber covered paving block.
Conduit supporting block. Die-cast cylinder block.
Hollow glass block. Snatch block.
Blocking apparatus. C. A. Zyara. 2,287,852; June 30.
Blocking, Hot top. B. F. Anthony. 2,287,772; June 30.
Blower. R. K. Odor and K. Dodge. 2,287,822; June 30.
Board: *See*—
Garment pressing board.
Boiler. J. A. Niles. 2,288,140; June 30.
Boot, Laced. S. R. Gookin. 2,287,985; June 30.
Bottle carrier, Wire. T. H. Jenkins. 2,288,357; June 30.
Box: *See*—
Poultry box. Spinning box.
Box and the like, Mill. A. F. Fyans. 2,288,396; June 30.
Box for electrical circuits, Junction. F. Moore. 2,288,139; June 30.
Box with pouring spout, Sealed. C. F. Lundberg. 2,287,893; June 30.
Bracket. R. M., R. M., and P. C. Ryan. 2,288,303; June 30.
Brake: *See*—
Pulley brake.
Brake. C. W. Sinclair. 2,288,146; June 30.
Brake control, Trailer. W. D. Stong. 2,288,046; June 30.
Brake drum. M. Dach. 2,288,438; June 30.
Brake drum and making same. H. Tormyn. 2,287,952; June 30.
Brake lining drilling support. F. C. Stanley. 2,287,914; June 30.
Brake shoe mounting. A. O. Williams. 2,288,059; June 30.
Brake system. R. W. Brown. 2,287,969; June 30.
Brassière. L. N. Alberts. 2,287,769; June 30.
Breaker, Vacuum. W. Kunstorff. 2,288,247; June 30.

Breathing apparatus supply valve. D. A. Green. 2,288,565; June 30.
Breech block operating means. B. P. Joyce. 2,287,885; June 30.
Brick or block, Building. R. J. Dickhout. 2,287,979; June 30.
Brush section, Rotary. W. S. Whittle. 2,288,337; June 30.
Brushes in printing telegraphs, Phasing distributor. J. A. Spencer. 2,288,257; June 30.
Cabinet: *See*—
Stove cabinet.
Cabinet and servicing, Dispensing. F. G. Steiner and R. G. Birr. 2,288,332; June 30.
Cabinet latch. D. M. Robinson. 2,288,171; June 30.
Cages for roller bearings, Making. R. J. Gales. 2,288,564; June 30.
Calculating machine. A. F. Pott. 2,288,323; June 30.
Can closing machine. R. E. Renard. 2,287,831; June 30.
Can end assembling machine. J. H. Murch. 2,287,817; June 30.
Can gripper. E. Ulzheimer. 2,287,919; June 30.
Cap feeding and positioning means, Crown. P. E. Pearson. 2,287,823; June 30.
Caps, Making closure. J. C. Gibbs. 2,288,349; June 30.
Capstan or like hauling means. R. F. Head. 2,288,276; June 30.
Car door. F. Ditchfield. 2,288,155; June 30.
Carbonation process for purifying sugar juice. A. R. Nees, A. N. Bennett and E. H. Hungerford. 2,288,479; June 30.
Carpenter's framing tool. H. M. Smith. 2,288,213; June 30.
Carriage control means of machine tools. M. Pegard. 2,288,420; June 30.
Carrier: *See*—
Bottle carrier. Tube carrier.
Phonograph film carrier.
Carrier for necked containers. T. H. Jenkins. 2,288,358; June 30.
Carton, Dispensing. L. H. Spilman. 2,288,042; June 30.
Case: *See*—
Eyeglass case. Receptacle or case
Casting. C. Wessel. 2,287,848; June 30.
Catalytic material, Manufacture of. C. L. Thomas and J. D. Danforth. 2,287,917; June 30.
Catalytic reforming of naphthas. A. B. Welty, Jr., and S. F. Perry. 2,288,336; June 30.
Cement and cement manufacture. C. H. Breerwood. 2,288,179; June 30.
Cement packs in wells, Method of and composition for providing permeable. L. W. Vollmer. 2,288,557; June 30.
Ceramic body and making the same. J. D. Sullivan and C. R. Austin. 2,288,047; June 30.
Chain welding. F. H. Speed and J. S. Pike. 2,288,494; June 30.
Chair: *See*—
Folding chair.
Chamber for pressure core barrels, Expansion. B. W. Sewell. 2,287,909; June 30.
Change making machine. H. W. Lormor. 2,287,892; June 30.
Chopper and slicer. G. J. Mannfolk. 2,288,473; June 30.
Chromium oxide gel catalysts, Preparing. G. H. Morey. 2,288,320; June 30.
Circuit: *See*—
Signal actuated alarm circuit. Telephone set circuit.
Telephone circuit. Valve control circuit.
Circuit breaker. H. D. Dorfman and G. J. Freese. 2,288,270; June 30.
Circuit breaker. W. H. Frank. 2,288,081; June 30.
Circuit breaker. O. Grober. 2,287,875; June 30.
Circuit breaker, Electric. D. C. Prince. 2,288,324; June 30.
Circuit breaking testing apparatus. W. F. Skeats. 2,288,331; June 30.
Circuit for carrier frequency communication systems, Ringing. H. Nitz. 2,288,252; June 30.
Circuit interrupter. J. B. MacNeil and A. H. Bakken. 2,288,472; June 30.
Clamp: *See*—
Shoe clamp.
Clamp. F. Tvrzicky. 2,287,842; June 30.
Clasp connector, Constant pressure. C. J. Hegenauer. 2,288,192; June 30.
Cleaner: *See*—
Suction cleaner.
Cleaning machine. W. F. Oliver. 2,288,141; June 30.
Clothes hanger. R. J. Shanahan. 2,288,551; June 30.
Clothing and equipment, Electrically heated. E. H. Taylor. 2,287,915; June 30.
Clutch. H. E. Somes. 2,288,037; June 30.
Coal washery. G. L. Arms. 2,287,854; June 30.
Coating, Antistick surface. C. W. Wilson. 2,287,849; June 30.
Coating compositions, Resinous. D. M. Gowing and P. F. Sanders. 2,287,986; June 30.
Coating machine. H. B. Richmond, G. K. Dickerman and W. F. Thiele. 2,287,905; June 30.
Cocoa beans, Roasting. T. J. Stephens. 2,288,045; June 30.

Coffee extract. J. L. Kellogg. 2,288,284; June 30.
Coil, Iron-cored. W. S. Challis. 2,288,120; June 30.
Coin receptacle. H. S. Bockstein. 2,288,222; June 30.
Comb and thinning razor, Combined. V. R. Pileggi. 2,288,299; June 30.
Communication system, Electric. A. Rosen. 2,288,487; June 30.
Condensation product of aryl amine and long chain aliphatic compound. G. H. B. Davis. 2,288,392; June 30.
Condensation products, Production of. H. Wagner. 2,288,306; June 30.
Conductor support, Electrical. C. Roll. 2,288,108; June 30.
Conduit supporting block. H. R. Ellingwood. 2,288,158; June 30.
Confection and product, Manufacturing. J. Stanley. 2,287,838; June 30.
Connecting device for electrical conductors. R. Gladulich. 2,288,259; June 30.
Connector: *See*—
Clasp connector. Threadless connector.
Electrical connector.
Connector. J. D. Benfield. 2,287,857; June 30.
Connectors, Making. R. D. B. Moynahan and E. K. Pilcher. 2,288,013; June 30.
Contact device for window sashes, Spring. W. W. Fabry. 2,288,077; June 30.
Container: *See*—
Display container.
Container. G. A. and G. J. R. Ramsden. 2,288,549–50; June 30.
Container. A. G. Smirnoff. 2,288,113; June 30.
Container and support therefor. B. D. Goldberg. 2,288,447; June 30.
Container construction. O. W. Wentz. 2,288,056; June 30.
Container manufacture. L. P. Curtin. 2,288,182; June 30.
Control apparatus, Boiler. L. Bomyer. 2,288,223; June 30.
Control apparatus for printing equipment. C. P. Feldhausen and E. H. Laabs. 2,288,129; June 30.
Control device. L. L. Cunningham. 2,287,784; June 30.
Control device for controllable apparatus. R. C. Marholz and A. W. Plensler. 2,288,098; June 30.
Control for internal combustion engines. G. J. Wohanka. 2,288,173; June 30.
Control mechanism. W. A. Ray. 2,288,300; June 30.
Control mechanism for linecasting and composing machines. M. T. Goetz. 2,287,793; June 30.
Control system. E. F. Diekhoff. 2,287,788; June 30.
Control system. H. S. Ogden. 2,288,415; June 30.
Control system, Automatic frequency. A. F. Pomeroy. 2,288,025; June 30.
Control system, Automatic gain. W. E. Bradley. 2,288,434; June 30.
Control system for closures. C. Norton and P. Karmel. 2,288,414; June 30.
Conversion of alcohols to acids. D. C. Hull. 2,287,803; June 30.
Converter furnace. C. T. Draney. 2,288,272; June 30.
Converter unit. J. A. Hanley. 2,288,449; June 30.
Conveyor. F. W. Douthitt. 2,288,125; June 30.
Conveyer. J. E. Pointon. 2,288,571; June 30.
Cooker, Sausage. A. E. Aff. 2,287,956; June 30.
Cooler and heat exchanger, Oil. A. B. Arnold. 2,288,061; June 30.
Cooling system for internal combustion engines. H. Carosell. 2,288,514; June 30.
Cord assembly, Assist. A. Claud-Mantle. 2,287,782–3; June 30.
Core taking projectile. M. Schlumberger. 2,288,210; June 30.
Counter shaper. W. H. Weaser. 2,287,920; June 30.
Coupling: *See*—
Lock joint coupling. Pipe coupling.
Cover for automobile seats and the like, Protecting. A. E. Lookholder. 2,288,469; June 30.
Crackers and composition therefor, Preparing soda. E. A. Vaupel. 2,288,118; June 30.
Crane controller, Dynamic lowering. P. B. Harwood and J. M. Newman. 2,288,133; June 30.
Crease construction for trousers. D. and S. Segelin 2,288,212; June 30.
Creeper. E. W. Holmes. 2,288,568; June 30.
Crops, Protection of economic. D. B. Mason and P. D. Peterson. 2,288,569; June 30.
Crozing and stacking mechanism for hat bodies. R. K. Reynolds and B. D. Wells. 2,288,573; June 30.
Crusher. R. E. Browning. 2,288,069; June 30.
Curler, Hair. I. V. Gemerchak. 2,288,446; June 30.
Current commutator machine, Alternating. A. C. Lane. 2,288,408; June 30.
Current interrupter. J. A. Hanley. 2,288,398; June 30.
Cushion, Upholstery. J. A. Ferney. 2,288,130; June 30.
Cutoff machine. W. F. Ridgway. 2,287,833; June 30.
Cutter: *See*—
Rivet cutter.
Cutters, Forming. W. E. Martin. 2,288,291; June 30.
Cycle timer control apparatus for traffic signals. W. M. Jeffers. 2,288,458; June 30.
Damper, Vibration. C. Criswell. 2,287,866; June 30.
Damping device. J. R. Glazebrook. 2,287,984; June 30.

Deflector attachment for ventilating fans. W. W. Welch and B. Kahn. 2,288,307; June 30.
Dehydrator. J. L. Knight. 2,288,285; June 30.
Delivery mechanism. W. F. Grupe and A. M.Wickwire, Jr. 2,288,523; June 30.
Detection of genuine coins. Device for the automatic. J. F. Mullen and W. R. Brooks. 2,288,014; June 30.
Device for clamping fishing rods and the like. G. F. Felton. 2,288,442; June 30.
Device for fire protection apparatus, Release. W. B. Griffith. 2,287,989; June 30.
Device for movement of aircraft. J. Zunino. 2,287,955; June 30.
Device for repairing automotive engines. T. De Biasse 2,288,228; June 30.
Device for use in handling loose bulk material. E. E. Peterman. 2,287,944; June 30.
Dial indicators, Adjustment for. J. A. Legassey. 2,287,890; June 30.
Dictation machine control means. E. P. Gaillmard and R. C. Johnson. 2,288,082; June 30.
Die: *See*—
Marking die. Punch and die.
Die-cast cylinder block. F. T. Irgens. 2,288,092; June 30.
Die set. K. Janiszewski. 2,288,136; June 30.
Digestion tube. J. Benotti. 2,288,065; June 30.
Dimpling tool. H. E. Velt. 2,288,378; June 30.
Direction indicator and signal. O. H. Hunt. 2,288,528, June 30.
Discharge apparatus, Electric. F. H. Gulliksen, J. W. Allison, and C. T. Pearce. 2,287,993; June 30.
Dispensing device. W. S. Drollet. 2,287,789; June 30.
Display container. R. E. Paige. 2,288,205; June 30.
Distributor switch. W. Leathers. 2,288,583; June 30.
Doll. H. W. Munro. 2,288,296; June 30.
Doll and the like, Movable. J. Rothschild. 2,288,371; June 30.
Door: *See*—
Car door.
Door and making the same, Vehicle. G. Trautvetter. 2,288,577; June 30.
Double presser foot, Compensating. M. T. Voigt. 2,288,051; June 30.
Drafting apparatus. W. J. Greenleaf. 2,287,987; June 30.
Dressing mechanism. E. W. Bullock. 2,288,153; June 30.
Drier: *See*—
Hair drier.
Drill: *See*—
Rock and lock drill. Rock drill.
Drilling apparatus. C. F. Osgood. 2,288,545; June 30.
Drilling apparatus. W. W. Paget. 2,288,541–3; June 30.
Drilling apparatus, Rock. J. C. Curtis and E. G. Gartin. 2,288,544; June 30.
Drilling operations, Device for recording. P. B. Nichols. 2,287,819; June 30.
Drilling string protector. T. A. Creighton. 2,288,124; June 30.
Drink mixing device. G. W. Aschlock, Jr. 2,288,063; June 30.
Drive mechanism, Intermittent. T. B. Hawkes. 2,287,800; June 30.
Dyestuffs of the anthraquinone series, Wool. K. Wenand. 2,288,219; June 30.
Dyestuffs of the dioxazine series and preparing them. H. Greune, M. Thiele, G. Langbein, and F. Maennchen. 2,288,522; June 30.
Edging, Protective stair. E. C. Lorraine. 2,288,470; June 30.
Educational device. M. J. O'Sullivan. 2,287,943; June 30.
Eggs, Incubation of. R. R. Root. 2,287,906; June 30.
Elastic wheel. R. Boyer, M. Marin, and M. Gaestel. 2,288,581; June 30.
Electric dehorner. J. Kitchener. 2,288,464; June 30.
Electric device, Vapor. H. C. Myers. 2,288,016; June 30.
Electric lamp. I. H. Van Horn. 2,288,499; June 30.
Electric power system, Alternating-current. S. B. Griscom. 2,287,991; June 30.
Electric reciprocating motor. T. J. Murphy. 2,288,203; June 30.
Electric switch. H. J. Hammerly. 2,287,994; June 30.
Electric switch. H. C. Harrison. 2,288,451–2; June 30.
Electric switch. P. Hutt. 2,288,283; June 30.
Electric valve generator, High frequency. E. D. McArthur. 2,288,364; June 30.
Electrical apparatus. M. P. Winther. 2,287,953; June 30.
Electrical apparatus from voltage surges, Protecting. E. Babler. 2,288,428; June 30.
Electrical conductor with improved hydrocarbon insulator. W. M. Smith and C. J. Wilson. 2,288,373; June 30.
Electrical connector. M. Broverman. 2,288,390; June 30.
Electrical distribution system. L. E. Fisher and A. A. Togesen. 2,288,078; June 30.
Electrical resistance, Adjustable. T. L. Stanton. 2,288,043; June 30.
Electrical switch. T. F. Johnson. 2,288,529; June 30.
Electrical switch particularly for control of warning and lighting devices for vehicles. H. P. M. Quillery. 2,288,207; June 30.
Electrode system, Blocking layer. N. W. H. Addink. 2,288,341; June 30.
Electrolytic basic metal chromate pigment manufacture. E. F. Weaver. 2,288,503; June 30.
Electrolytic capacitor and spacing means therefor, Dry. F. S. Dunleavey. 2,288,157; June 30.
Electromagnetic relay. A. Gaebel and H-F Schwartz. 2,288,186; June 30.
Electroplating process. R. A. Hoffman. 2,288,318; June 30.
Emergency apparatus for ships. W. P. Dickey. 2,288,271; June 30.
Emergency lock, Door. J. J. O'Brien and J. Strad. 2,288,022; June 30.
Emulsion and preparing the same, Size. R. T. Mashburn. 2,288,476; June 30.
Emulsion, Photographic. B. H. Carroll and C. F. H. Allen. 2,288,226; June 30.
Emulsion, Wax. R. Griffith. 2,288,351; June 30.
Engine: *See*—
Internal combustion engine.
Engine control starter system. J. B. Dyer. 2,287,791; June 30.
Engine or the like. V. Palumbo. 2,288,480; June 30.
Eraser for pencils, Removable. J. D. Patrick. 2,288,419; June 30.
Etching machine. R. A. Erz. 2,288,128; June 30.
Ethers in powdered form, Production of water soluble cellulose. G. Meyer. 2,288,200; June 30.
Ethers of mono-hydroxy-halogen-1,4-benzoquinones and preparing them. G. Langbein. 2,288,198; June 30.
Eye movements, Recording. E. D. Tillyer. 2,288,216; June 30.
Eyeglass case. J. E. Ross. 2,288,255; June 30.
Fabrics, Method and apparatus for making coated. W. F. Grupe. 2,288,188; June 30.
Fan, Centrifugal. T. B. Allardice. 2,287,853; June 30.
Fastening device. F. Kohnle. 2,288,286; June 30.
Feed mechanism. C. C. Schaefer, S. A. Tollefson, and H. F. Nied. 2,288,031; June 30.
Feeder: *See*—
Weighing mechanism feeder.
Fibrous products, Method and apparatus for making bonded. H. W. Collins. 2,288,072; June 30.
Film feeding means, Intermittent. P. F. Sperry. 2,288,148; June 30.
Film treating apparatus and process. V. C. Krupa and H. R. Fleck. 2,288,165; June 30.
Films on zinc, Corrosion resistant. J. C. Lum. 2,288,007; June 30.
Filter: *See*—
Oil filter.
Filter. W. Gavett. 2,287,983; June 30.
Filter device. B. L. Knapp. 2,288,532; June 30.
Filter material. R. J. Stack. 2,288,426; June 30.
Fire extinguishing apparatus. E. Geertz and C. A. Getz. 2,287,873; June 30.
Firearm. H. F. Mossberg. 2,288,202; June 30.
Fish-cutting machine. J. M. Meland. 2,288,010; June 30.
Fitting machine, Heel seat. C. A. Robinson. 2,287,832; June 30.
Fixture. E. A. Dahm. 2,288,439; June 30.
Flood light. J. M. Bailey. 2,288,177; June 30.
Flooring, Making rubber. J. C. Walton. 2,288,054; June 30.
Flooring or sheeting, Rubber. C. C. Davis. 2,287,766; June 30.
Fluoro-hydrocarbons, Manufacture of. A. V. Grosse and C. R. Linn. 2,287,934; June 30.
Fog inhibitor, Yellow. F. Dersch and N. Heimbach. 2,288,586; June 30.
Folding chair. O. Löwenherz and M. Behrens. 2,288,411; June 30.
Follow-up mechanism. N. L. Haight. 2,287,876; June 30.
Foot for sewing machines, Presser. G. F. Kahre. 2,288,404; June 30.
Foot protector. M. Levy. 2,288,199; June 30.
Footwear, Rubber. J. E. Hard. 2,287,878; June 30.
Frame: *See*—
Glass bending frame.
Framing mechanism for motion picture projectors. A. Kindelmann and L. Thoma. 2,288,001; June 30.
Freezer, Ice cream. A. H. Bolleau. 2,288,067; June 30.
Frequency modulation. W. Stablein. 2,288,575; June 30.
Frequency modulation. C. L. Townsend. 2,288,375; June 30.
Friction catch. B. O. Siegfus. 2,288,145; June 30.
Fruit handling machine. G. W. Aschlock, Jr. 2,288,062; June 30.
Fruit press. R. J. Cheesman. 2,288,393; June 30.
Fuel delivery station. P. E. Pihl and C. F. Coe. 2,287,824; June 30.
Fuel feed system. F. F. Flint. 2,288,347; June 30.
Fuel feeding mechanism for liquid fuel burners. L. V. McCarty, R. W. Johnson, and F. H. Newman. 2,288,536; June 30.

Fuel, Manufacture of motor. H. V. Atwell. 2,288,262; June 30.
Fuel, Treating Diesel. S. H. Hulse and J. O. Collins. 2,288,401; June 30.
Furnace: *See*—
Converter furnace. Regenerative furnace.
Hearth furnace.
Furnace. W. M. Parsons. 2,288,366; June 30.
Furnace. W. M. Parsons. 2,288,368; June 30.
Furnace. M. C. Richardson. 2,288,028; June 30.
Fuse construction. H. A. Triplett. 2,288,117; June 30.
Fusible strut for automatic sprinklers. W. B. Griffith. 2,287,988; June 30.
Garment bag. J. J. St. Laurent. 2,287,912; June 30.
Garment pressing board. A. Arabia. 2,288,220; June 30.
Garment separator with size indicator. M. Cohen. 2,288,071; June 30.
Gas to burners, Controlling the supply of. M. Rabinowicz. 2,288,208; June 30.
Gas discharged device and circuit therefor. S. Ruben. 2,287,834; June 30.
Gas generator, Chemical. C. C. Bailey. 2,287,959; June 30.
Gas valve. L. M. Persons. 2,288,024; June 30.
Gases, Controlling the flow of. J. M. Nalman. 2,288,297; June 30.
Gasoline and the like, Stabilization of. J. C. Morrell. 2,287,898; June 30.
Gauge and thief hatch. P. B. Drane. 2,288,230; June 30.
Gear: *See*—
Reverse gear.
Gear for ships, Steering. R. Erling. 2,288,076; June 30.
Gear shifting apparatus. W. A. Johns. 2,287,937–8; June 30.
Gear warming switch cutout, Landing. A. I. Ostlund and J. A. Minshull. 2,288,204; June 30.
Generator: *See*—
Electric valve generator. Ozone generator.
Gas generator. Vapor generator.
Motor-generator set and generator.
Glass. N. J. Stemme. 2,288,044; June 30.
Glass bending frame. L. S. Whitmire and C. A. Juncker. 2,288,507; June 30.
Glass feeding device. J. T. Wood. 2,288,381; June 30.
Glass, Reclaiming safety. F. W. Hall. 2,288,524; June 30.
Glassware forming apparatus. G. B. Langer. 2,288,466; June 30.
Governor. H. G. Adler. 2,288,382; June 30.
Grass or hay lifter. C. Goodall. 2,288,238; June 30.
Grate bar. W. Lloyd. 2,288,006; June 30.
Grey cast iron. H. J. Young. 2,287,850; June 30.
Grip for golf clubs, Wristband. A. J. Wyman. 2,288,150; June 30.
Guitar, Electric. F. H. Kislingbury. 2,288,463; June 30.
Gum base, Chewing. G. J. Manson. 2,288,100; June 30.
Gun, Metal spray. F. O. Albertson. 2,287,770; June 30.
Hair-curling device. M. Dunner. 2,288,346; June 30.
Hair dressing instrument. J. W. Dove. 2,288,156; June 30.
Hair drier. M. Clapp. 2,288,227; June 30.
Halogen alkyl amines, Preparing acylated. H. Bestian. 2,288,178; June 30.
Hammermill. S. D. Hartshorn. 2,287,799; June 30.
Handle for cans, Detachable. T. H. Jenkins. 2,288,359; June 30.
Hanger: *See*—
Clothes hanger.
Hat bodies, Felting. R. K. Reynolds and B. D. Wells. 2,288,572; June 30.
Hay stacker, Power. F. Swedberg. 2,288,496; June 30.
Hearth furnace, Open. G. E. Seil. 2,288,491; June 30.
Heat exchange apparatus. W. Astle. 2,287,958; June 30.
Heat exchanger, Regenerative. G. K. W. Boestad. 2,287,777; June 30.
Heat treating apparatus. J. Mason. 2,288,008; June 30.
Heat treating apparatus. H. E. Somes. 2,288,035; June 30.
Heat treating apparatus. H. E. Somes. 2,288,038; June 30.
Heat-treating apparatus. H. E. Somes. 2,288,039; June 30.
Heat-treating apparatus, Induction. H. E. Somes. 2,288,041; June 30.
Heat treating, Induction. H. E. Somes. 2,288,036; June 30.
Heating apparatus. N. B. Cohen. 2,287,974; June 30.
Heating apparatus, Water. J. B. Beauvais. 2,288,431; June 30.
Heating coils, Forming. W. L. Enghauser. 2,288,273; June 30.
Heating means for grease guns. H. L. Long. 2,288,248; June 30.
Heating pad, Electric. E. A. Driscoll. 2,288,232; June 30.
Heating plant, Hot air. I. F. Ward. 2,288,258; June 30.
Heating system, Electrostatic. E. L. Crandell. 2,288,268–9; June 30.
Heating system, Train. R. M. Ostermann. 2,288,021; June 30.
Heel. E. E. Leu. 2,288,168; June 30.
Heel, Shoe. P. Mariani. 2,288,475; June 30.
Hoisting equipment. W. J. Hill. 2,288,354; June 30.
Holder: *See*—
Lamp holder. Record holder.
Match book and holder. Tool holder.
Holder for work objects. W. B. Warren. 2,288,218; June 30.
Holding device. G. F. Felton. 2,288,443; June 30.
Holding device for duplicating apparatus, Strip. W. S. Cochran and R. A. Williams. 2,288,267; June 30.
Hollow articles of plastic material, Forming. J. R. Hobson. 2,288,454; June 30.
Hollow glass block. J. J. Gregory. 2,288,521; June 30.
Hook mounting. A. J. Traumüller. 2,288,305; June 30.
Hosiery. O. Kress and C. E. Johnson. 2,288,361; June 30.
Hubs, Producing autofrettaged. H. E. Somes. 2,288,033; June 30.
Hydrocarbon conversion. E. H. McGrew. 2,287,940; June 30.
Hydrocarbon conversion. M. P. Venema. 2,287,918; June 30.
Hydrocarbon conversion process. M. T. Carpenter. 2,288,070; June 30.
Hydrocarbon fluids, Separating. L. R. Hill. 2,288,453; June 30.
Hydrocarbon fluids, Separating. P. C. Keith, Jr., and G. Roberts, Jr. 2,288,461; June 30.
Hydrocarbons, Refining and treating petroleum. W. T. Hancock. 2,288,131; June 30.
Hydrocarbons, Treatment of. B. B. Corson and G. S. Monroe. 2,287,931; June 30.
Hydrocarbons, Treatment of. A. V. Grosse and W. J. Mattox. 2,287,935; June 30.
I-cholesterol, Derivatives of. E. S. Wallis and E. Fernholz. 2,287,846; June 30.
Ignition system. R. J. Courcier, Sr. 2,288,515; June 30.
Illumination means for handbags and the like. W. A. Smith. 2,288,493; June 30.
Implement, Earth working. T. G. Schmeiser. 2,288,110; June 30.
Index, Multiple. G. H. Bloom. 2,288,066; June 30.
Indicating instrument. F. A. Lower. 2,288,534; June 30.
Indicia on counter wheels, Forming. J. A. Gits and J. P. Gits. 2,288,187; June 30.
Indicating device. G. M. Dick. 2,288,229; June 30.
Indicator apparatus. T. B. Hyde. 2,288,243; June 30.
Inductance. N. E. Davis, F. G. Robb, and H. J. Craymer. 2,288,516; June 30.
Inhibitor, Pour. L. A. Mikeska and E. Lieber. 2,288,319; June 30.
Insert in rotary furnaces. H. Rump. 2,288,372; June 30.
Insoles, Manufacture of. S. M. Griswold. 2,288,448; June 30.
Insulating material, Heat. W. F. Astley. 2,288,311; June 30.
Insulating material, Thermal. W. J. Moeller. 2,288,170; June 30.
Insulator. C. D. Croskey and D. H. Rowland. 2,287,976; June 30.
Internal combustion engine. A. H. Neuland. 2,288,017–8; June 30.
Internal combustion engine. H. R. Ricardo. 2,288,326; June 30.
Internal combustion engine. H. Schmidt. 2,287,908; June 30.
Interpolymerization product of a diallyl ether and an unsaturated alkyd resin. G. F. D'Alelio. 2,288,315; June 30.
Iron: *See*—
Grey cast iron.
Iso-butane, Production of. C. W. Montgomery. 2,288,477; June 30.
Isolators, Zero sequence. S. B. Griscom. 2,287,990; June 30.
Jack: *See*—
Lifting jack.
Joint: *See*—
Welding joint.
Joint assembly. W. A. Flumerfelt. 2,288,160; June 30.
Ketones, Production of. B. T. Brooks. 2,288,344; June 30.
Keying device, Automatic. I. F. Byrnes. 2,288,265; June 30.
Kiln and kiln drying, Dry. J. F. Cobb. 2,288,154; June 30.
Kit, Sewing. R. A. Butland. 2,287,790; June 30.
Knife, Spot. E. J. St. Jacques. 2,288,555; June 30.
Lamp: *See*—
Electric lamp. Vapor lamp.
Tool handle and lamp.
Lamp holder. E. B. Tuppen. 2,288,376; June 30.
Lamp holder attachment for dental handpieces. F. J. Gibbons and J. J. Gibbons and A. Gibbons. 2,287,874; June 30.

Latch: *See*—
Cabinet latch.
Lawn edging, weeding, and soil-working tool. J. W. Steele. 2,288,374; June 30.
Lens and deflecting system, Electron. J. H. O. Harries. 2,288,239; June 30.
Lens, Convergent rays safety. G. H. Nystrom. 2,287,820; June 30.
Level. W. C. Buckley. 2,287,863; June 30.
Lifter: *See*—
Grass or hay lifter.
Lifting jack. M. B. Lucker. 2,288,097; June 30.
Light: *See*—
Flood light.
Lighter, Cigar. H. G. Lehmann. 2,288,005; June 30.
Lighting arrester. H. Vatter. 2,288,050; June 30.
Lining machine. J. Brenzinger. 2,288,224; June 30.
Link, Chain. H. St. Pierre. 2,287,913; June 30.
Liquid conditioning apparatus. S. A. Jones. 2,288,137; June 30.
Liquid treatment apparatus. N. R. Collins and A. E. Esterberg. 2,287,975; June 30.
Lock Joint coupling. E. Krumsiek and R. Kileen. 2,287,889; June 30.
Locking mechanism, Door. A. C. Findlay. 2,287,980; June 30.
Loom: *See*—
Ware loom.
Lubricant. B. H. Lincoln, G. D. Byrkit, and W. L. Steiner. 2,288,289; June 30.
Luggage closure construction. J. H. Plotkin. 2,288,105; June 30.
Lure or artificial fishing bait, Fishing. J. S. Watasy and A. P. Ballantyne. 2,288,009; June 30.
Machine for assembling roller bearings. H. A. Ortegren and C. C. Howenstine. 2,288,023; June 30.
Machine for conditioning leather surfaces. J. H. Kelly. 2,287,999; June 30.
Machine for cutting gears. E. Wildhaber and C. T. Galloway. 2,288,058; June 30.
Machine for die cutting paper. A. B. Schlattner. 2,288,304; June 30.
Machine for treating thin rubber articles. G. A. Fingado H. Ludwig. 2,288,444; June 30.
Magazine pencil assembly. H. Maucher. 2,288,292; June 30.
Magnetic separator, Nonchocking. W. Byrd, Jr. 2,288,264; June 30.
Manicuring and article for same. C. W. Belden. 2,288,386; June 30.
Manifold sets of stationery, Method and apparatus for interconnecting. L. Jensen. 2,288,360; June 30.
Manifolding method and means. R. A. Williams. 2,288,149; June 30.
Manometer. R. T. Wetteland. 2,288,505; June 30.
Marker, Stock. A. G. Prizell. 2,288,445; June 30.
Marking die. H. J. Mumma. 2,288,015; June 30.
Mat of glass fibers, Making. P. Modigliani. 2,287,815; June 30.
Match book. B. L. Brooks. 2,288,342; June 30.
Match book and holder. B. L. Brooks. 2,288,343; June 30.
Material handling apparatus. J. D. Russell and H. Thies. 2,288,109; June 30.
Material, Treating proteinaceous. F. C. Atwood. 2,287,928; June 30.
Mattress construction. D. Micon. 2,288,103; June 30.
Means to remotely control devices. G. Broulhiet. 2,287,968; June 30.
Measuring device, Electrical. S. C. Hoare and A. T. Sinks. 2,288,399; June 30.
Mechanism control apparatus. C. S. McCarthy. 2,288,169; June 30.
Mechanism for removing moisture from liquid products. J. M. Hall. 2,287,795; June 30.
Mercury into vacuum devices, Introducing. E. A. Reuter. 2,288,253; June 30.
Mercury relay. U. C. Hedin. 2,288,089; June 30.
Metal article and making same. H. Tormyn. 2,287,951; June 30.
Metal pipe or the like, Method and apparatus for heating. H. A. H. Pray. 2,288,483; June 30.
Metal-removing operations, Method of and apparatus for initiating. J. A. Rea. 2,288,026; June 30.
Metallic compositions for electrical contacts and the like. I. W. Cox. 2,288,122; June 19.
Metering conveyer for bulk material, Continuous. E. S. Mason. 2,288,099; June 30.
Metering device, Liquid. L. Bryan. 2,287,829; June 30.
Method and apparatus for applying coating materials. J. S. Smyser. 2,287,837; June 30.
Method and apparatus for producing bound batts. H. B. Lindsay and N. R. Easter. 2,288,095; June 30.
Method and apparatus for supplying current to exciter lamps. G. Friedl, Jr. 2,287,981; June 30.
Method and apparatus for the operation of photoelectric cells. W. Borberg. 2,287,965; June 30.
Method of and apparatus for forming fiber can bodies. A. G. Hatch and R. S. Condon. 2,288,161; June 30.
Method of and apparatus for initiating desurfacing operations. A. P. Scheller. 2,288,027; June 30.
Minerals, Device for recovery of. H. L. Johnson. 2,287,804; June 30.
Mitt or glove, Baseball. H. B. Latina. 2,288,467; June 30.
Mixing apparatus. T. M. Evans. 2,288,440; June 30.
Mixing valve. J. K. Lund. 2,287,810; June 30.
Mixtures of chemically related substances, Separating. H. W. Huijser and A. Schaafsma. 2,288,281; June 30.
Modulating system. E. B. Ferrell. 2,288,275; June 30.
Moisture in sheet fiber material, Sealing. L. Biggs. 2,287,776; June 30.
Moldable composition and molded article and making the same. B. W. Nordlander and I. A. Hurst. 2,288,321; June 30.
Moldable copal composition and making the same. B. W. Nordlander. 2,288,322; June 30.
Molding apparatus, Cement block. W. F. Jurgenson. 2,288,403; June 30.
Molding ornamental panels. A. N. Ward. 2,288,559; June 30.
Motor: *See*—
Electric reciprocating motor.
Motor control system, Electric. C. H. Willis. 2,288,338–9; June 30.
Motor-generator set and generator. J. H. Blankenbuehler. 2,287,929; June 30.
Motor tool, Illuminated. G. Dalkowitz. 2,288,183; June 30.
Motorboat, High-speed. H. Scott-Paine. 2,288,490; June 30.
Mounting: *See*—
Brake shoe mounting. Wheel mounting.
Hook mounting. Window sash mounting.
Mounting or joint strip. L. H. Smith. 2,288,329; June 30.
Mower. G. M. Underwood. 2,288,498; June 30.
Musical sounds, Producing. C. L. Howard. 2,288,455; June 30.
Nozzle, Adjustable duster. J. Mayer. 2,288,101; June 30.
Nozzle for coating pipe, Mastic. W. R. Postlewaite and R. A. Vertrees. 2,287,826; June 30.
Nozzle for tempering bottles and other glass containers, Adjustable. C. E. Mongan, Jr. 2,288,012; June 30.
Nut cracking machine. F. Hayes. 2,288,191; June 30.
Oil and gas separator. E. C. Kopp. 2,288,245; June 30.
Oil burning apparatus. P. Gainey. 2,288,083; June 30.
Oil filter. C. E. Frudden. 2,287,982; June 30.
Oil, Lubricating. B. H. Lincoln. 2,288,288; June 30.
Oils, Dewaxing mineral. D. G. Brandt. 2,287,966; June 30.
Oils for lubricating purposes, Production of improved. M. Pier and F. Christmann. 2,287,901; June 30.
Oils, Refining animal and vegetable. F. J. Ewing. 2,288,441; June 30.
Opener, Can. H. A. Berkman. 2,288,266; June 30.
Optical objective. A. Warmisham. 2,288,502; June 30.
Ores, Concentration of potash. F. X. Tartaron, A. T. Cole, and J. B. Duke. 2,288,497; June 30.
Organic derivatives of cellulose materials, Manufacture of. H. E. Martin. 2,287,897; June 30.
Oscillator, Multiple-frequency. R. S. Rivlin. 2,288,486; June 30.
Oscillator, Ultra high frequency. O. J. Morelock. 2,288,294; June 30.
Oxide from gaseous mixtures, Recovery of nitric. K. H. Hoover. 2,288,091; June 30.
Oxygen-evolving substances. T. J. Webb. 2,287,847; June 30.
Ozone generator. H. B. Hartman. 2,288,132; June 30.
Package. W. J. Elvin and W. T. Stearn. 2,287,870; June 30.
Pad: *See*—
Heating pad.
Paper, cardboard, and the like, Manufacture of laminated. C. Metcalf. 2,288,293; June 30.
Paper, Safety. B. W. Smith. 2,288,147; June 30.
Parachute harness. F. G. Manson. 2,287,812; June 30.
Parasiticides. F. B. Smith and J. N. Hansen. 2,287,836; June 30.
Pencil, Mechanical. J. P. Lynn. 2,287,894; June 30.
Pencil pointer. E. J. Lada. 2,288,407; June 30.
Permeable packs in wells, Method of and composition for producing. L. W. Vollmer. 2,288,556; June 30.
Peroxide, Stabilization of. A. Lippman, Jr. 2,288,410; June 30.
Petroleum contaminated waters, Purification of. R. A. Stevenson. 2,288,330; June 30.
Phenols, Derivatives of. R. J. W. Reynolds and E. E. Walker. 2,287,904; June 30.
Phonograph. C. Huenlich. 2,288,242; June 30.
Phonograph, Automatic. O. A. Hokanson. 2,288,526; June 30.
Phonograph film carrier. J. L. Rodier. 2,288,325; June 30.
Phosphate ores, Concentrating. E. W. Greene. 2,288,237; June 30.
Phosphates, Manufacture of mixed. E. P. Partridge. 2,288,418; June 30.
Phosphoric acid and its salts, Manufacture of. J. H. Kane and H. G. Hansen. 2,288,460; June 30.

Photographic material. J. D. Kendall and K. J. Callis. 2,287,807; June 30.
Photographic projection apparatus. A. V. Ditty and A. J. Bradford. 2,288,074; June 30.
Picture apparatus, Motion. C. L. Fitz. 2,288,079; June 30.
Piezoelectric device. R. W. Tibbetts. 2,287,950; June 30.
Pigment, Alkali-resistant iron blue. E. A. Wilson and I. Schack. 2,288,309; June 30.
Pile shell, Sectional. A. C. Titcomb and M. D. Cronan. 2,288,576; June 30.
Pilot coupler structure, Locomotive. H. H. Wolfe. 2,287,954; June 30.
Pin: *See*—
Ring and pin.
Pipe, Coating. W. R. Postlewaite. 2,287,830; June 30.
Pipe coating apparatus. L. Bryan. 2,287,828; June 30.
Pipe coating coupler. W. R. Postlewaite. 2,287,827; June 30.
Pipe coupling. R. C. Boughton. 2,288,225; June 30.
Piston ring. W. E. Jominy. 2,287,884; June 30.
Plastic material. R. Canter. 2,287,930; June 30.
Plasticized article of manufacture. W. L. Morgan. 2,288,413; June 30.
Plate for electrical outlet boxes, Cover. G. O. Tuttle. 2,288,377; June 30.
Plate, Striker. E. C. de Smet. 2,287,978; June 30.
Platform, Builder's. W. J. Hill and W. C. Furry. 2,288,355; June 30.
Plating, Indium. C. F. Smart. 2,287,948; June 30.
Plug and receptacle, Electrical. C. A. Hardage. 2,288,525; June 30.
Polyhydroxyaryl sulphones, Producing. J. Huismann. 2,288,282; June 30.
Positioning means for electric switches. D. G. Kimball. 2,288,406; June 30.
Poultry box. H. M. Inman. 2,288,457; June 30.
Power transmission system, High-voltage. J. Jonas. 2,288,459; June 30.
Press: *See*—
Fruit press. Printing press.
Press for vulcanizing play balls and similar articles. W. E. Humphrey. 2,288,356; June 30.
Pressing device. J. J. Getgey. 2,288,277; June 30.
Printing machine. E. Racz. 2,288,107; June 30.
Printing paste, Textile. J. Abrams. 2,288,261; June 30.
Printing plate having a water repellent surface and preparing same. H. L. Davis and E. A. Reineck. 2,288,073; June 30.
Printing press. H. A. W. Wood. 2,288,174; June 30.
Printing screens, Making. D. B. Noland and M. L. Loftin. 2,288,020; June 30.
Projector or the like. H. A. DeVry and O. R. Nemeth. 2,288,345; June 30.
Protective device. A. L. Holcomb. 2,288,241; June 30.
Protector: *See*—
Drilling string protector. Foot protector.
Protector for eave troughs. W. A. Cisar and W. K. Sandmeyer. 2,288,121; June 30.
Protector for riders, Eye. R. R. Root. 2,288,423; June 30.
Pulley brake, Sash. F. F. Painter and W. G. Smith. 2,288,546; June 30.
Pump: *See*—
Well pump.
Punch. L. C. Huff. 2,287,882; June 30.
Punch and die. I. A. Williams. 2,288,308; June 30.
Pusher device for chronographs. M., P., and B. Taubert. 2,288,215; June 30.
Rack: *See*—
Rifle rack.
Rack construction, Secondary. R. H. MacKinnon. 2,287,895; June 30.
Radio beacon system. E. Kramar. 2,288,196; June 30.
Radio device. W. L. Morrison. 2,288,539; June 30.
Radio direction finding apparatus. F. W. Meredith. 2,288,102; June 30.
Radio receiver. S. Y. White. 2,287,925; June 30.
Radio system. F. E. Summers. 2,288,214; June 30.
Radio tube, High frequency. A. K. Wing, Jr. 2,288,380; June 30.
Radio tuning system, Time controlled. W. E. Newman and E. S. Maris. 2,288,019; June 30.
Range, Electric. W. H. Sickinger. 2,288,144; June 30.
Ratchet wrench, Double. E. C. Trautman. 2,288,217; June 30.
Razor. J. R. Reyburn. 2,288,301; June 30.
Razor. J. R. Reyburn and W. H. Ebelhere. 2,288,302; June 30.
Reamer taps, Forming. T. G. Sadler. 2,288,574; June 30.
Receptacle: *See*—
Air conditioned receptacle. Plug and receptacle.
Coin receptacle.
Receptacle. M. L. Rathbun. 2,288,421; June 30.
Receptacle or case, Closed. M. L. Rathbun. 2,287,903; June 30.
Record cutting mechanism, Phonograph. A. A. Leonard. 2,287,809; June 30.
Record holder. A. Greenberg. 2,288,317; June 30.
Refrigerating apparatus. A. A. Kucher. 2,288,166; June 30.
Refrigerating apparatus. H. F. Smith. 2,288,114; June 30.
Refrigeration. M. Kalischer. 2,288,587; June 30.
Refrigeration. C. G. Puchy. 2,287,902; June 30.
Refrigeration apparatus. O. S. McGuffey. 2,287,941; June 30.
Refrigeration, Method of and apparatus for producing. E. Babcock. 2,287,855; June 30.
Regeneration of catalysts by combustion. J. S. Rearick. 2,288,484; June 30.
Regenerative furnace. W. T. Dean. 2,287,785; June 30.
Register, accounting, and the like machine, Cash. H. Geller. 2,288,519; June 30.
Register, Cash. H. Geller and H. Driescher. 2,288,520; June 30.
Register device. H. M. Banuelos. 2,288,221; June 30
Release valve. R. E. Baker and G. A. Thompson 2,287,775; June 30.
Relief valve. A. V. Hose. 2,287,936; June 30.
Relief valve. F. E. Stratton. 2,287,840; June 30.
Remote control apparatus. B. O. Browne. 2,288,435; June 30.
Resins, Production of artificial. I. Kreidl and F. Nozicka. 2,288,533; June 30.
Respirator. H. T. Kraft. 2,287,939; June 30.
Reset valve. E. Paille. 2,288,417; June 30.
Resistor, Adjustable band. A. A. Foley. 2,288,235; June 30.
Resuscitating device. A. M. Cahan. 2,288,436; June 30.
Reverse gear. D. M. Pierpont. 2,288,206; June 30.
Rifle rack. W. B. Johnson. 2,287,805; June 30.
Ring: *See*—
Piston ring.
Ring and pin, Combined. C. A. Carleton. 2,287,865; June 30.
Rivet cutter. C. L. Beard. 2,288,385; June 30.
Riveting machine. E. D. Taylor. 2,288,048; June 30.
Riveting machine. L. A. Ward. 2,288,055; June 30.
Roaster. J. Gea. 2,288,085; June 30.
Rock and lock drill. J. Arthur. 2,288,509; June 30.
Rock drill. M. G. Edwards and F. M. McKinley. 2,288,075; June 30.
Roller having surface of sponge rubber knobs. G. R. Eckstein. 2,287,768; June 30.
Rolling machine, Draw. W. A. Weightman. 2,288,119; June 30.
Rotary machine tool. U. Anesi. 2,288,579; June 30.
Rotatable unit. W. C. Ewaldson. 2,288,274; June 30.
Rubber compositions having high flexi-resistance and low hysteresis. P. C. Jones and W. E. Phillips. 2,288,195; June 30.
Rubber covered paving block. M. Tiberghien. 2,287,844; June 30.
Rubber-like materials. R. G. R. Bacon, W. Baird, B. J. Habgood, and L. B. Morgan. 2,287,773; June 30.
Rubber, Making sponge. M. M. Harrison. 2,288,190; June 30.
Rubber, Vulcanization of. P. C. Jones and R. A. Mathes. 2,288,194; June 30.
Rubberlike materials. R. G. R. Bacon, B. J. Habgood, and R. Hill. 2,287,774; June 30.
Sacking device. F. J. Ernst. 2,288,159; June 30.
Sadiron. N. T. Almquist and P. J. Kircher. 2,288,175; June 30.
Safety device for motion picture projectors. H. H. Hull and J. F. Barton, Jr. 2,288,400; June 30.
Salt composition, Free-flowing. A. Lippman, Jr., and R. L. Comstock. 2,288,409; June 30.
Sand point. H. B. Fairbanks. 2,288,185; June 30.
Sausage casings, Preparing drying sticks. M. Forman. 2,288,080; June 30.
Scaffold, Movable. R. G. Le Tourneau. 2,288,167; June 30.
Scale. D. A. Meeker and K. C. Allen. 2,287,814; June 30.
Scanning apparatus. H. C. Bauman. 2,288,430; June 30.
Scarf and sash. S. L. Kramer. 2,287,887; June 30.
Scouring and abrading appliance. C. Hepner. 2,287,801; June 30.
Scouring device. B. A. Kingman. 2,288,002; June 30.
Screw driver, screw holder, and stabilizer, Surgeon's. E. E. Longfellow. 2,288,584; June 30.
Seal, Shaft. M. Katcher. 2,288,164; June 30.
Sealing machine. F. J. Malloy. 2,288,537; June 30.
Seat for automobiles. J. A. Marx, Jr. 2,288,535; June 30.
Self-feeder for livestock. W. H. Schmeling. 2,288,489; June 30.
Separator: *See*—
Magnetic separator. Teeth separator.
Oil and gas separator.
Sewer cutting head, Clogged. R. F. Therrien. 2,287,916; June 30.
Shaft construction, Arrow. J. J. Birkhofer and E. J. Heizer. 2,288,562; June 30.
Shaft manufacture, Crank. C. Brebeck. 2,288,068; June 30.
Shaver, Electric. C. P. Hulst. 2,288,162; June 30.
Sheet and preparing same, Coated. R. C. Bour. 2,288,389; June 30.
Sheet clamping means for duplicating machines. A. Marchev. 2,288,290; June 30.
Sheet positioning means. S. Kokay. 2,288,287; June 30.

Sheet-steel, Making stainless-clad. H. W. Dodson and D. G. Neuman. 2,288,184; June 30.
Shield, Scale. C. T. Walter. 2,288,053; June 30.
Ship, Container. W. P. Kellett. 2,287,886; June 30.
Shoe clamp. W. E. Landers. 2,288,582; June 30.
Shoe heel, Transparent or translucent. J. Bolten and R. H. Goldbaum. 2,288,388; June 30.
Shoe, Rubber. J. E. Hard. 2,287,877; June 30.
Shoe treating apparatus. L. H. Cushman. 2,287,977; June 30.
Showcase, Refrigerated. E. W. Jarvis. 2,287,997; June 30.
Sign. J. W. Alexander. 2,288,151; June 30.
Signal: *See*—
Direction indicator and signal.
Signal actuated alarm circuit. E. E. Zepler. 2,287,926; June 30.
Signal system, Double. M. W. Muehter. 2,287,816; June 30.
Signaling apparatus. J. Gandl. 2,288,084; June 30.
Signboard. T. Mungen. 2,288,570; June 30.
Smoke detector. C. C. Sheppard. 2,288,143; June 30.
Snatch block. C. K. Stillwagon. 2,288,116; June 30.
Soda ash solutions, Purification of. H. A. Beekhuis, Jr., and E. Gaskins. 2,287,856; June 30.
Solvents for organic film-forming materials. A. Rieche and A. Gnuechtel. 2,288,588; June 30.
Sound deadening connection. T. Ulrich. 2,288,172; June 30.
Sound reproducing apparatus. N. R. Kelly. 2,288,000; June 30.
Sound reproducing system. F. J. Kent. 2,288,462; June 30.
Speed control for continuous rolling mills, Automatic. A. Zeitlin. 2,287,851; June 30.
Spindle, Drive. E. J. Simborg. 2,288,425; June 30.
Spindle driving mechanism for screw and similar machines. C. A. Rich and W. E. Twamley. 2,288,254; June 30.
Spinning. J. J. Stoeckly. 2,287,839; June 30.
Spinning box. H. J. McDermott. 2,288,412; June 30.
Spinning device for square container and closure seams. G. S. Rider. 2,288,485; June 30.
Spinning solution, Viscose. E. Profft. 2,288,106; June 30.
Splice, Rail joint. C. L. Fero. 2,287,871; June 30.
Spray tank. W. R. Brown. 2,288,312; June 30.
Spread comprising animal body fat. S. L. Komarik. 2,288,244; June 30.
Spring assembly for saddles. H. E. Kalter. 2,288,163; June 30.
Sprinkling apparatus. W. H. Coles and B. J. Nelson. 2,288,394; June 30.
Stapling device. K. M. Vogel. 2,288,500; June 30.
Steering and control appliance, Hydraulic. C. U. Ballard. 2,287,960; June 30.
Stocking. E. B. Beacham. 2,287,962; June 30.
Stop motion mechanism for sewing machines. J. Hoza. 2,288,135; June 30.
Stove cabinet, Safety. C. Plohberger. 2,288,482; June 30.
Strand fourdrinier wire, Multiple. W. E. Buchanan. 2,288,512; June 30.
Stretcher. A. D. Silvernail. 2,288,492; June 30.
Stretcher and splicer, Wire. A. D. Losee. 2,288,471; June 30.
Structural member and building structure. E. A. Horn, I. F. Laucks, and P. B. Attwell. 2,288,193; June 30.
Suction cleaner. G. P. Dalger. 2,287,867; June 30.
Suction cleaner. E. L. Snyder. 2,287,911; June 30.
Suction cleaner. H. B. White. 2,287,921–4; June 30.
Suction head. B. R. Sammons. 2,288,209; June 30.
Sulphuric acid, Purification and reconcentration of spent. C. L. Read. 2,288,370; June 30.
Superheater arrangement, Separately fired. J. A. Barnes. 2,287,961; June 30.
Superphosphates, Treating. M. Shoeld. 2,288,112; June 30.
Superpolyamide-formaldehyde reaction products. H. Hopff, A. Weickmann, and H. Ufer. 2,288,279; June 30.
Support: *See*—
Brake lining.
Drilling support.
Conductor support.
Wall form support.
Wall support.
Support for railway trucks, Spring. C. D. Barrett and C. R. Whitehead. 2,287,963; June 30.
Supporting device. W. T. Gollwitzer. 2,288,350; June 30.
Surface treating objects of cast magnesium base alloys. G. Siebel and E. Nachtigall. 2,288,552; June 30.
Switch: *See*—
Distributor switch.
Electric switch.
Electrical switch.
Thermostatic switch.
Switch. P. B. Hoye. 2,288,134; June 30.
Switch control device. D. P. Joffo. 2,287,883; June 30.
Synchronizing system and method. N. F. Smith, Jr. 2,288,554; June 30.
Synchroscope. F. W. Hornbruch, Jr. 2,288,280; June 30.
Synthetic acrolein. H. Walter and H. Schulz. 2,288,335; June 30.
Table top, Metal. T. H. Fay. 2,288,234; June 30.
Tank: *See*—
Spray tank.
Tank for milk, Pressure. H. H. Ehrman. 2,287,869; June 30.
Tape, Curtain heading. G. F. French. 2,288,397; June 30.
Teeth separator. A. D. Mizzy. 2,288,011; June 30.
Telephone circuit. K. S. Johnson. 2,287,998; June 30.
Telephone set circuit. R. J. Tillman and M. K. Zinn. 2,288,049; June 30.
Telephone system. W. H. T. Holden. 2,287,881; June 30.
Telephone system, Automatic toll switching. P. B. Murphy. 2,288,251; June 30.
Television film projector. H. R. Lubcke, W. H. Brown, and W. S. Klein. 2,288,096; June 30.
Television transmitting tube. H. A. Iams. 2,288,402; June 30.
Temperature control. H. E. Brannon. 2,288,510; June 30.
Temperature responsive control device. H. R. Batchelor. 2,288,384; June 30.
Textile finishing. W. M. Billing. 2,288,432; June 30.
Thermohydrometer. J. T. Webber. 2,288,560; June 30.
Thermohydrometer and calculating device therefor. J. T. Webber. 2,288,561; June 30.
Thermostatic switch. R. N. Dickey. 2,287,787; June 30.
Thermostatic switch. W. Dubilier. 2,288,517; June 30.
Threadless connector, Water tight. W. O. White. 2,288,506; June 30.
Time cycle control mechanism. N. Belaef. 2,288,064; June 30.
Tire, Pneumatic. L. E. Sexton. 2,288,328; June 30.
Titanium solutions, Treatment of. L'R. G. Bousquet and M. J. Brooks. 2,287,861; June 30.
Tool: *See*—
Carpenter's framing tool.
Dimpling tool.
Lawn edging, weeding, and soil-working tool.
Motor tool.
Rotary machine tool.
Tool for holding dental instruments for sharpening. A. N. Slack. 2,287,910; June 30.
Tool handle and lamp, Combined. N. F. A. Kaffenberger and W. Sheffer. 2,288,093; June 30.
Tool holder. E. M. Lauderdale. 2,288,004; June 30.
Top construction for tables or the like. W. Fall. 2,288,563; June 30.
Transfer apparatus, Fluid. W. T. Tabb. 2,287,841; June 30.
Transfer machine. C. L. Henderson. 2,288,352; June 30.
Transformer, High tension. A. Meyerhans. 2,288,201; June 30.
Transmission line structure. H. Salinger. 2,288,030; June 30.
Transmission mechanism. R. W. Weston. 2,288,057; June 30.
Transmission system, Electric. H. E. Somes. 2,288,034; June 30.
Transmission through space discharge device. W. G. Shepherd. 2,288,256; June 30.
Transmitting system. J. Brian. 2,287,862; June 30.
Tray, Ice. C. R. Carney. 2,287,971–3; June 30.
Trimming machine. D. G. McLean and G. A. Miner. 2,287,813; June 30.
Trolling plate for outboard motors, Lever controlled. C. Weber. 2,288,504; June 30.
Truck, Railway. R. G. Anderson. 2,288,383; June 30.
Tube: *See*—
Digestion tube.
Radio tube.
Television transmitting tube.
Tube carrier, Pneumatic. M. P. Anderson. 2,288,427; June 30.
Tube sheet connection, Heat exchanger. J. A. Coy. 2,288,123; June 30.
Tube still. W. M. Parsons. 2,288,367; June 30.
Tubes and circuits, Thermionic vacuum. R. H. Varian and D. Packard. 2,287,845; June 30.
Tubing, Making. J. Karmazin. 2,288,094; June 30.
Tubular structures, Making composite. W. S. Yates. 2,288,340; June 30.
Tuning arrangement for radio signaling apparatus. A. L. Green. 2,288,236; June 30.
Turning machine. L. I. Yeomans and D. Clausen. 2,288,578; June 30.
Tying machine. L. M. Harvey. 2,288,088; June 30.
Undergarment. F. J. Slezak. 2,288,553; June 30.
Unsaturated compounds, Production of. H. Baehr and W. Deiters. 2,288,580; June 30.
Ureas, Mixed. A. Rohm. 2,288,422; June 30.
Vacuum sweeper. C. S. Soldanels. 2,288,115; June 30.
Valve: *See*—
Breathing apparatus supply valve.
Gas valve.
Mixing valve.
Release valve.
Relief valve.
Reset valve.
Valve. W. T. Tabb. 2,287,842; June 30.
Valve assembly, Priming. A. L. Parker. 2,287,900; June 30.
Valve construction. M. H. Grove. 2,287,992; June 30.
Valve control circuit, Electric. E. E. Moyer and C. V. Bullen. 2,288,295; June 30.
Valve float controlled means, Diverting. P. B. Drane. 2,288,231; June 30.

Valve frequency changer,. Electric. E. D. McArthur. 2,288,362–3; June 30.
Vapor generator. R. M. Hardgrove and R. K. Behr. 2,287,798; June 30.
Vapor lamp, Luminous. J. Morley. 2,288,250; June 30.
Vending machine and the like, Change giving. K. H. Lundqvist. 2,287,811; June 30.
Vending machine, Change giving. K. H. Lundqvist and K. M. Vigborg. 2,288,249; June 30.
Ventilated hollow panel. M. Pasquier. 2,288,104; June 30.
Viscosity-controlled unit. R. G. Dykeman and H. B. Clarke. 2,288,127; June 30.
Visor construction. W. J. Pelcher and A. J. Diroff. 2,288,481; June 30.
Vitamin E substitute and making it. L. I. Smith and H. E. Ungnade. 2,287,949; June 30.
Volatile bases, Recovery of readily. H. Baehr. 2,288,176, June 30.
Vulcanizer packing. H. C. Bostwick. 2,288,263; June 30.
Waist construction, Adjustable. W. H. Nix. 2,287,899; June 30.
Wall form support. R. J. Moths. 2,288,365; June 30.
Wallpapering. F. W. Humphner. 2,288,527; June 30.
Wall support. F. W. Stone. 2,288,495; June 30.
Ware loom, Small. G., J. R., and E. R. Lilley. 2,288,468; June 30.
Washing apparatus. S. T. Hiatt. 2,288,353; June 30.
Washing machine. D. O. Scott. 2,288,111; June 30.
Washing machine, Automatic. H. W. Altorfer. 2,287,927; June 30.
Water-in-rosin paper size, Solid. F. Arledter and A. Allina. 2,288,060; June 30.
Water soluble catalyst, Cracking with. C. Ellis. 2,288,395; June 30.
Weather station, Automatic. H. Diamond and W. S. Hinman, Jr. 2,287,786; June 30.
Weighing mechanism feeder. E. W. Vredenburg. 2,288,379; June 30.
Welder, Stud. E. F. Nelson. 2,287,818; June 30.
Welding apparatus, Automatic. W. E. Smith. 2,288,032; June 30.
Welding control. C. E. Heltman, Jr. and F. E. Laig. 2,288,567; June 30.
Welding equipment. R. A. Funk. 2,288,348; June 30.
Welding joint. H. N. Boetcher and J. W. Hudnall, Jr. 2,288,433; June 30.
Welding machine. H. Purat. 2,287,945; June 30.
Well logging, Gamma-ray. L. G. Howell. 2,288,278; June 30.
Well pump. H. J. Pankratz. 2,288,142; June 30.
Well pumping mechanism, Deep. C. C. Carlisle. 2,287,779; June 30.
Wheel: *See*—
Elastic wheel.
Wheel mounting. A. F. Kuester. 2,288,246; June 30.
Wheel mounting and control, Grinding. M. H. Arms and J. B. Johnson. 2,288,508; June 30.
Wheel structure. J. R. Manning. 2,288,474; June 30.
Winding machine. B. Bogoslowsky. 2,287,860; June 30.
Winding machine, Ball. B. Bogoslowsky. 2,287,859; June 30.
Window and light screen therefor, Multi-glazed. P. E. Knudsen. 2,288,465; June 30.
Window blind. B. W. Tochstone. 2,288,260; June 30.
Window construction. E. Peremi and L. Toth. 2,288,548; June 30.
Window sash mounting, Friction. F. N. Vose. 2,288,558; June 30.
Window stay. C. Olson. 2,288,540; June 30.
Wiper, Headlight. C. Baughn. 2,288,429; June 30.
Wire grip. L. Jugle. 2,288,138; June 30.
Wire mass, Tangled. D. E. Hennessy. 2,287,879; June 30.
Wire, Weatherproof insulated electric. R. W. Shoemaker. 2,287,947; June 30.
Wood finishing apparatus. W. W. Partee and M. Gray. 2,288,585; June 30.
Work holder for heat-treating apparatus. H. E. Somes. 2,288,040; June 30.
Work-positioning means for shoe machines. P. E. Burby. 2,287,970; June 30.
Wrench: *See*—
Ratchet wrench.
Wringer. F. Breckenridge. 2,287,967; June 30.
Wrist joint and distal forearm support, Orthopaedic combined. D. O'Donovan. 2,287,821; June 30.
Yarn treating apparatus. J. I. Burnham. 2,287,765; June 30.
Yeast, Improving. L. M. Christensen. 2,288,314; June 30.
Zinc values, Recovery of. R. J. Kepfer. 2,288,405; June 30.

CLASSIFICATION OF PATENTS

ISSUED JUNE 30, 1942

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

1— 3: 2,288,500
2— 14: 2,288,423
19: 2,288,467
42: 2,287,769
91: 2,287,887
226: 2,288,553
231: 2,288,212
237: 2,287,899
338: 2,288,313
3— 12: 2,287,781
5— 98: 2,287,907
356: 2,288,103
8— 70: 2,288,261
114.5: 2,287,932
136: 2,288,361
12— 1: 2,287,977
14: 2,287,970
17: 2,288,456
31.5: 2,287,832
88: 2,287,813
103: 2,287,920
146: 2,288,448
15— 4: 2,288,115
8: 2,287,922
2,287,923
16: 2,287,911
2,287,921
2,287,924
104.30: 2,287,916
130: 2,288,353
209: 2,287,801
250: 2,288,429
267: 2,288,582
16— 99: 2,288,155
17— 4: 2,288,010
18— 7: 2,288,263
17: 2,288,356
21: 2,288,327
24: 2,288,444
47.5: 2,287,830
54: 2,287,839
55: 2,288,454
61: 2,288,187
2,288,559
19— 131: 2,287,780
156: 2,287,815
20— 1: 2,288,052
52.4: 2,288,558
56.5: 2,288,465
79: 2,288,470
91: 2,288,104
2,288,193
21— 115: 2,288,569
22— 116: 2,288,291
147: 2,287,772
200: 2,287,848
23— 50: 2,288,547
63: 2,287,856
87: 2,287,861
97: 2,288,405
106: 2,288,418
161: 2,288,091
165: 2,288,460
172: 2,288,370
196: 2,288,176
282: 2,287,959
292: 2,288,065
24— 126: 2,288,138
145: 2,287,985
25— 36: 2,287,858
38: 2,287,825
2,287,826
2,287,828
41: 2,288,403
131: 2,288,365
28— 6: 2,288,572
2,288,573
29— 6: 2,288,068
11: 2,288,013
29— 69: 2,287,833
84: 2,288,023
85: 2,287,767
148.4: 2,288,504
152.2: 2,287,952
189: 2,287,951
30— 13: 2,288,266
30: 2,288,299
34: 2,288,162
62: 2,288,302
64: 2,288,301
128: 2,288,473
151: 2,288,555
32— 64: 2,288,011
33— 79: 2,287,987
90: 2,288,213
178: 2,288,534
213: 2,287,863
34— 26: 2,288,154
87: 2,288,227
35— 17: 2,288,296
35: 2,287,943
36— 10: 2,288,199
34: 2,288,388
2,288,475
39: 2,288,168
50: 2,287,877
2,287,878
37— 58: 2,288,185
38— 137: 2,288,234
140: 2,288,220
40— 11: 2,288,071
63: 2,288,570
145: 2,288,151
41— 9: 2,288,128
31.6: 2,288,152
2,288,380
38.5: 2,288,020
41.5: 2,288,073
42— 16: 2,288,202
43— 46: 2,288,009
147: 2,288,101
44— 57: 2,288,401
74: 2,287,898
45— 24: 2,288,492
46— 119: 2,288,371
47— 61: Pl.Pt.530
62: Pl.Pt.528
Pl.Pt.529
49— 2: 2,288,537
5: 2,288,029
2,288,466
45: 2,288,507
55: 2,288,381
81: 2,288,524
50— 5: 2,288,024
21: 2,287,992
51— 50: 2,288,508
166: 2,288,579
185: 2,288,002
220: 2,287,910
55— 77: 2,288,110
56— 26.5: 2,288,498
345: 2,288,238
57— 76: 2,288,412
58— 74: 2,288,215
59— 87: 2,287,913
60— 52: 2,288,076
54.5: 2,287,960
97: 2,288,173
61— 79: 2,288,576
62— 4: 2,288,587
5: 2,287,902
8: 2,288,067
89: 2,288,285
89.5: 2,287,997
95: 2,287,941
108.5: 2,287,971
2,287,972
62—103.5: 2,287,973
116: 2,288,166
119.5: 2,287,855
133: 2,288,003
147: 2,288,044
175.5: 2,288,461
63— 1: 2,287,865
64— 28: 2,288,425
66— 172: 2,287,962
68— 12: 2,288,141
38: 2,288,111
148: 2,287,927
198: 2,287,765
249: 2,287,967
69— 1: 2,287,999
70— 264: 2,287,980
71— 40: 2,288,112
72— 41: 2,287,979
2,288,521
101: 2,288,495
73— 31: 2,288,505
74— 10: 2,288,098
57: 2,288,480
189.5: 2,288,057
230.17: 2,288,114
298: 2,288,206
325: 2,288,254
336.5: 2,287,937
2,287,938
436: 2,287,800
501: 2,287,968
515: 2,288,450
527: 2,288,406
541: 2,288,160
568: 2,288,435
604: 2,287,866
75— 0.5: 2,287,771
123: 2,287,850
134: 2,287,888
147: 2,288,513
76— 101: 2,288,574
77— 27: 2,288,420
63: 2,287,914
2,288,218
78— 1: 2,288,308
49: 2,288,048
2,288,055
80— 35: 2,287,851
81— 54: 2,288,228
57: 2,288,217
82— 20: 2,288,578
37: 2,288,004
83— 9: 2,288,085
10: 2,288,069
46: 2,287,799
84— 1.16: 2,288,463
405: 2,288,455
85— 1.5: 2,288,123
11: 2,287,964
32: 2,288,256
88— 14: 2,287,808
2,288,143
16.2: 2,287,792
16.8: 2,285,079
17: 2,288,001
18.4: 2,288,148
19.3: 2,287,996
20: 2,288,216
2,288,420
24: 2,288,243
2,288,488
27: 2,288,074
57: 2,288,502
89— 24: 2,287,885
90— 9: 2,288,058
91— 12.2: 2,287,770
13: 2,288,585
44: 2,288,316
48: 2,287,905
93— 6: 2,287,957
36.5: 2,288,485
55.1: 2,287,817
81: 2,288,161
94— 15: 2,287,844
95— 7: 2,288,226
2,288,586
8: 2,287,807
73: 2,288,352
89: 2,288,165
100: 2,288,325
97— 227: 2,288,374
98— 1: 2,288,538
99— 23: 2,287,838
2,288,045
71: 2,288,284
91: 2,288,118
122: 2,288,244
135: 2,288,100
143: 2,288,409
100— 31: 2,288,088
41: 2,288,393
101— 8: 2,288,298
132.5: 2,288,287
149.5: 2,288,267
176: 2,288,174
212: 2,288,107
327: 2,288,015
409: 2,288,290
103— 6: 2,288,437
150: 2,287,841
228: 2,288,347
244: 2,288,142
105— 185: 2,288,383
197.1: 2,287,963
354: 2,287,782
2,287,783
369: 2,287,852
106— 100: 2,288,179
144: 2,288,476
165: 2,288,106
168: 2,288,413
238: 2,288,060
241: 2,288,047
304: 2,288,309
306: Re.22,127
108— 30: 2,288,121
110— 40: 2,288,006
112— 235: 2,288,051
2,288,404
113— 33: 2,288,340
35: 2,288,094
80: 2,288,224
114: 2,287,823
2,287,831
120: 2,288,182
121: 2,288,349
114— 0.5: 2,287,824
66.5: 2,288,490
227: 2,288,271
115— 17: 2,288,504
116— 67: 2,288,400
122: 2,288,229
117— 1: 2,288,147
11: 2,288,527
17: 2,287,837
59: 2,288,080
60: 2,287,776
86: 2,288,188
145: 2,288,432
119— 36: 2,287,906
53.5: 2,288,489
120— 14: 2,288,292
17: 2,287,894
38: 2,288,419
89: 2,288,407
121— 46: 2,288,511
157: 2,287,779
122— 165: 2,288,431
122— 235: 2,287,798
338: 2,288,140
448: 2,288,223
473: 2,287,961
123— 55: 2,288,017
65: 2,288,326
70: 2,288,018
173: 2,288,092
174: 2,288,514
187.5: 2,287,900
197: 2,287,908
125— 11: 2,288,153
126— 37: 2,288,482
67: 2,288,258
99: 2,288,028
127— 50: 2,288,479
128— 29: 2,288,436
30: 2,287,939
77: 2,287,821
172: 2,288,416
316: 2,288,445
129— 17: 2,288,189
132— 19: 2,288,156
33: 2,288,346
2,288,446
73: 2,288,386
136— 78: 2,287,868
176: 2,287,802
137— 53: 2,287,840
2,287,936
68: 2,288,231
69: 2,288,565
78: 2,288,237
111: 2,288,247
139: 2,288,417
139— 199: 2,288,468
381: 2,288,397
420: 2,288,311
425: 2,288,512
140— 71: 2,287,879
123.5: 2,288,471
145— 52: 2,288,584
146— 12: 2,288,191
148— 6: 2,288,007
2,288,552
9: 2,288,026
2,288,027
21: 2,288,033
152— 29: 2,288,581
209: 2,288,328
153— 10: 2,288,378
28: 2,288,119
33: 2,288,273
48: 2,287,933
2,288,086
154— 2: 2,288,391
27: 2,288,072
2,288,095
40: 2,288,054
2,288,293
42: 2,288,360
45: 2,288,170
54.5: 2,287,872
155— 5: 2,288,535
5.22: 2,288,163
117: 2,288,411
179: 2,288,130
182: 2,288,469
158— 36.3: 2,288,536
91: 2,288,083
117.1: 2,288,208
159— 4: 2,287,795
2,287,995
164— 24: 2,288,304
40: 2,288,385
124: 2,287,882
166— 20: 2,288,233
26: 2,288,556
2,288,557
167— 31: 2,287,836
72: 2,287,817
169— 31: 2,287,873
38: 2,287,988
42: 2,287,989
171— 34: 2,288,399
97: 2,287,990
2,288,078
2,288,459
2,287,991
123: 2,287,929
228: 2,288,408
242: 2,288,120
327: 2,287,950
172— 36: 2,288,183
126: 2,287,880
2,288,203
2,288,449
179: 2,288,133
2,288,415
239: 2,287,835
2,288,295
2,288,339
2,287,876
245: 2,288,280
2,288,310
274: 2,288,338
282: 2,288,102
284: 2,287,953
173— 259: 2,288,390
324: 2,288,259
328: 2,288,525
174— 25: 2,288,373
59: 2,288,139
87: 2,287,857
107: 2,287,947
135: 2,288,158
209: 2,287,976
175— 30: 2,288,050
183: 2,288,331
2,287,942
298: 2,287,797
2,288,241
315: 2,288,157
320: 2,288,387
356: 2,288,201
363: 2,288,016
366: 2,288,341
176— 10: 2,287,981
33: 2,288,376
40: 2,288,499
124: 2,287,834
2,288,250
177— 311: 2,288,204
327: 2,288,528
337: 2,288,084
2,288,458
367: 2,287,816
178— 7.2: 2,288,096
2,288,402
44: 2,288,030
2,288,516
53: 2,288,257
63: 2,288,487
66: 2,288,265
69.5: 2,288,554
179— 27: 2,288,251
27.52: 2,287,881
81: 2,287,998
2,288,049
84: 2,288,252
100.3: 2,287,965
2,288,402
100.4: 2,288,000
171: 2,288,434
171.5: 2,288,275
2,288,375
181— 42: 2,287,867
183— 2.7: 2,288,245

183— 15: 2,287,806
184— 104: 2,288,127
187— 54: 2,288,414
188— 78: 2,288,146
82: 2,288,546
112: 2,288,046
152: 2,287,969
212: 2,288,059
218: 2,287,984
2,288,438
189— 62: 2,288,260
75: 2,288,548
78: 2,288,329
190— 48: 2,288,105
192— 113: 2,288,274
148: 2,288,135
194— 75: 2,288,249
80: 2,287,811
91: 2,287,892
100: 2,288,014
195— 79: 2,288,314
196— 9: 2,288,070
11: 2,288,453
18: 2,287,966
48: 2,287,918
49: 2,288,262
50: 2,288,336
52: 2,287,931
2,287,940
2,288,395
96: 2,288,131
116: 2,288,272
2,288,366
2,288,367
2,288,368
198— 33: 2,288,062
34: 2,288,125
39: 2,288,099
153: 2,288,424
188: 2,288,159
193: 2,288,571
199— 51: 2,287,793
200— 6: 2,288,207
30: 2,288,398
33: 2,288,300
39: 2,287,883
48: 2,288,529
67: 2,288,283
81: 2,287,784
87: 2,288,186
89: 2,288,270
97: 2,288,089
112: 2,288,090
2,288,451
2,288,452
115: 2,288,428
116: 2,287,875
2,288,081
117: 2,288,117

200— 138: 2,288,175
2,288,384
139: 2,287,787
148: 2,288,324
2,288,472
152: 2,288,583
153: 2,287,994
162: 2,288,131
166: 2,288,122
201— 56: 2,288,043
63: 2,288,235
202— 39: Re.22,126
204— 45: 2,287,948
55: 2,288,318
89: 2,288,503
195: 2,288,180
320: 2,288,132
206— 6: 2,288,255
7: 2,287,912
29: 2,288,342
33: 2,288,343
44: 2,288,421
84: 2,287,849
209— 13: 2,287,854
49: 2,288,497
166: 2,288,237
179: 2,287,804
223: 2,288,264
210— 2: 2,288,330
51: 2,287,975
128: 2,287,983
131: 2,287,982
169: 2,288,532
204: 2,288,426
211— 40: 2,288,317
64: 2,287,805
71: 2,287,919
212— 41: 2,288,354
213— 4: 2,287,954
214— 8.5: 2,288,031
10: 2,287,944
15: 2,287,886
65.5: 2,287,955
140: 2,288,496
215— 100: 2,288,357
2,288,358
219— 4: 2,287,818
2,287,945
2,288,348
2,288,567
5: 2,288,494
8: 2,287,993
2,288,032
10: 2,288,184
2,288,433
11: 2,288,483
13: 2,288,035
2,288,036
2,288,037

219— 13: 2,288,038
2,288,039
2,288,040
2,288,041
19: 2,287,956
21: 2,288,277
24: 2,288,369
25: 2,288,517
29: 2,288,464
32: 2,288,005
35: 2,288,144
37: 2,288,510
39: 2,287,974
2,288,248
44: 2,288,240
46: 2,287,915
2,288,232
47: 2,288,268
2,288,269
220— 3.4: 2,288,377
31: 2,287,903
44: 2,288,230
47: 2,288,113
55: 2,288,312
65: 2,288,396
67: 2,287,869
221— 11: 2,288,042
74: 2,287,789
98: 2,288,549
2,288,550
118: 2,288,379
223— 95: 2,288,551
108: 2,287,790
229— 6: 2,288,457
16: 2,288,056
17: 2,287,893
41: 2,288,205
230— 127: 2,287,822
134: 2,287,853
274: 2,288,307
232— 12: 2,288,222
234— 5.8: 2,287,819
235— 6: 2,288,519
9: 2,288,221
23: 2,288,520
62: 2,288,323
236— 12: 2,287,810
46: 2,288,064
68: 2,287,788
237— 6: 2,288,021
238— 244: 2,287,871
349: 2,287,843
240— 2: 2,287,874
6.45: 2,288,493
6.46: 2,288,093
41.4: 2,287,820
47: 2,288,345
49: 2,288,177
242— 3: 2,287,859

242— 3: 2,287,890
18: 2,287,870
243— 35: 2,288,427
244— 49: 2,288,501
151: 2,287,812
248— 54: 2,288,172
67.7: 2,287,895
124: 2,287,890
129: 2,286,447
206: 2,288,443
217: 2,288,439
229: 2,288,442
307: 2,288,305
316: 2,288,303
250— 2: 2,287,786
6: 2,288,575
11: 2,288,196
13: 2,288,214
14: 2,288,539
17: 2,287,862
2,288,294
20: 2,288,236
27: 2,287,845
2,287,926
2,288,239
2,288,256
27.5: 2,288,253
2,288,280
36: 2,288,025
2,288,362
2,288,363
2,288,364
2,288,486
40: 2,287,925
2,288,019
83.6: 2,288,278
251— 144: 2,287,842
252— 35: 2,288,288
2,288,289
52: 2,287,901
186: 2,288,410
242: 2,288,484
254: 2,288,320
259.3: 2,287,917
311.5: 2,288,351
363: 2,288,333
254— 133: 2,288,097
150: 2,288,276
193: 2,288,116
255— 1.4: 2,288,210
45: 2,288,075
2,288,544
47: 2,288,509
2,288,541
2,288,542
2,288,543
2,288,545
72: 2,287,909
257— 6: 2,287,777

257— 74: 2,288,137
245: 2,287,963
2,288,061
259— 58: 2,288,087
68: 2,287,897
81: 2,288,440
260— 15: 2,287,930
19: 2,287,946
22: 2,287,986
26: 2,288,322
32: 2,288,588
40: 2,288,321
42: 2,288,315
57: 2,288,533
72: 2,288,279
79: 2,287,774
120: 2,287,928
199: 2,288,518
232: 2,288,200
246: 2,288,522
314: 2,288,478
373: 2,288,219
396: 2,288,198
397.2: 2,287,846
397.7: 2,288,530
404: 2,288,178
425: 2,288,441
449: 2,287,891
471: 2,288,334
479: 2,287,949
506: 2,288,422
507: 2,287,896
520: 2,287,864
530: 2,288,566
531: 2,287,803
556: 2,288,531
562: 2,288,197
576: 2,288,392
592: 2,288,319
593: 2,288,281
2,288,306
597: 2,288,344
602: 2,288,211
605: 2,288,335
607: 2,288,282
615: 2,288,181
624: 2,287,904
653: 2,287,934
668: 2,287,935
674: 2,288,126
680: 2,288,580
683.5: 2,288,477
723: 2,288,190
754: 2,287,766
768: 2,287,773
787: 2,288,194
788: 2,288,195
261— 93: 2,288,063
263— 3: 2,288,129

263— 8: 2,288,008
15: 2,287,785
2,288,491
32: 2,288,372
264— 17: 2,288,382
265— 25: 2,287,794
2,287,796
27: 2,287,829
2,288,053
38: 2,287,814
46: 2,288,560
2,288,561
266— 6: 2,288,034
270— 58: 2,288,149
271— 2.1: 2,287,768
2.3: 2,288,350
3: 2,288,209
63: 2,288,523
273— 81: 2,288,150
106.5: 2,288,562
274— 10: 2,288,526
13: 2,287,809
17: 2,288,082
47: 2,288,242
280— 61.5: 2,288,568
99: 2,288,109
124: 2,288,246
283— 40: 2,288,066
285— 1: 2,287,827
142: 2,288,225
164: 2,287,889
166: 2,288,506
286— 7: 2,288,164
287— 78: 2,288,108
90: 2,288,160
103: 2,288,192
290— 37: 2,288,515
38: 2,287,791
292— 17: 2,288,077
78: 2,288,145
221: 2,288,171
253: 2,288,540
291: 2,288,022
340: 2,287,978
294— 34: 2,288,359
296— 44: 2,288,577
97: 2,288,481
299— 69: 2,288,394
144: 2,288,012
300— 21: 2,288,337
301— 36: 2,288,474
303— 38: 2,287,775
304— 2: 2,288,167
2,288,355
308— 4: 2,288,124
5: 2,288,136
309— 45: 2,287,884
311— 106: 2,288,563
312— 39: 2,288,332

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,287,766: 260— 754
2,287,790: 223— 108
2,287,829: 265— 27
2,287,830: 18— 47.5
2,287,848: 22— 200
2,287,849: 206— 84
2,287,853: 230— 134
2,287,861: 23— 87
2,287,869: 220— 67
2,287,884: 309— 45
2,287,889: 285— 164

2,287,898: 44— 74
2,287,917: 252—259.3
2,287,919: 211— 71
2,287,946: 260— 19
2,287,975: 210— 51
2,287,978: 292— 340
2,287,981: 176— 10
2,287,989: 169— 42
2,287,994: 200— 153
2,288,002: 51— 185
2,288,047: 106— 241

2,288,067: 62— 8
2,288,085: 83— 9
2,288,087: 259— 58
2,288,104: 20— 91
2,288,149: 270— 58
2,288,188: 117— 86
2,288,192: 287— 103
2,288,210: 255— 1
2,288,228: 81— 54
2,288,267: 101—149.5
2,288,287: 101—132.5

2,288,288: 252— 35
2,288,298: 101— 8
2,288,299: 30— 30
2,288,301: 30— 64
2,288,313: 2— 338
2,288,322: 260— 26
2,288,333: 252— 363
2,288,335: 260— 605
2,288,345: 240— 47
2,288,356: 18— 17
2,288,386: 132— 73

2,288,390: 220— 65
2,288,401: 44— 57
2,288,413: 106— 168
2,288,421: 206— 44
2,288,432: 117— 145
2,288,447: 248— 129
2,288,449: 172— 126
2,288,477: 260—683.5
2,288,498: 56— 26.5
2,288,520: 235— 23
2,288,524: 49— 81

2,288,536: 158— 36.3
2,288,546: 188— 82
2,288,558: 20— 52.4
2,288,565: 137— 69
2,288,576: 61— 79
2,288,587: 62— 4

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CONTENTS

	Page
Issue of June 2, 1942	1
Disclaimers	1
Applications Under Examination	2
Decisions of the U. S. Courts—	
Pecheur Lozenge Co., Inc., v. National Candy Co., Inc.	3
Muncie Gear Works, Inc., et al., v. Outboard, Marine & Mfg. Co. et al	3
Hygrade Sylvania Corporation v. Sontag Chain Stores Co., Ltd	6
Patent Suits	8
Adjudicated Patents	10
Adverse Decisions in Interference	10
Trade-Marks Published (114 Applications)	11
Trade-Mark Registrations Granted	27
Trade-Mark Registrations Renewed	36
Reissues	39
Plant Patents	40
Patents Granted	41
Designs	223

June 2, 1942

Trade-marks	188	No. 395,529 to No. 395,716, inclusive.
T. M. Renewals	71	
Reissue	4	No. 22,104 to No. 22,107, inclusive.
Plant Patents	2	No. 525 to No. 526, inclusive.
Patents	766	No. 2,284,617 to No. 2,285,382, inclusive.
Designs	75	No. 132,586 to No. 132,660, inclusive.
Total	1,106	

Disclaimers

Re. 20,591.—*Audley Hart Stow*, deceased, late of Charleston, W. Va., by *Sanford Investment Co.*, assignee. Sidewise Dumping Mine Car and the Like. Patent dated December 14, 1937. Disclaimer filed April 23, 1942, by the assignee, *Sanford Investment Company*.

Hereby enters this disclaimer to claims 1, 2, 4, 6, 7, 8, 9, 10, 11, 12, 14, 16, 23, 29, 32, 33, 35, 36, 38, 39, 40, 41, 42, 45, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 61, 62, 63, 66, 67, and 68 in said specification.

T. M. 336,190.—*M. C. Schrank Company*, Bridgeton, N. J. Trade-mark "Rip Van Krinkle" for Men's, Ladies', and Children's Pajamas, Sleeping Gowns, House-frocks, Sleepers, Slips, and Underwear. Registered June 30, 1936. Disclaimer filed April 14, 1942, by the registrant.

Hereby disclaims the word "men's" now forming a part of the statement of said registration.

1,716,962.—*Harry L. Johnson*, South Bend, Ind. Water Propulsion Device. Patent dated June 11, 1929. Disclaimer filed May 6, 1942, by the assignee, *Johnson Brothers Engineering Corporation*.

Hereby disclaims claims 11, 12, 13, and 14 of said Letters Patent.

1,763,970.—*Louis James Johnson*, Waukegan, Ill. Stream-Line Construction. Patent dated June 17, 1930. Disclaimer filed May 6, 1942, by the assignee, *Johnson Brothers Engineering Corporation*.

Hereby disclaims claims 3 and 14 of said Letters Patent.

1,990,329.—*Lambert D. Johnson*, *Nathan F. True* and *Harry H. Engel*, Evansville, Ind. Food Product and Method. Patent dated February 5, 1935. Disclaimer filed May 13, 1942, by the assignee, *Mead Johnson & Company*.

Hereby enters this disclaimer to the following portions of the specification—

Page 1, second column, line 16, "spray dryer,",

Page 1, second column, lines 17 and 18, ", vacuum shelf dryer, atmospheric shelf dryer",

Page 1, second column, line 55 to page 2, first column, lines 1 to 12, inclusive,

"If the cooked material is spray dried instead of drum dried, the finished product is in the form of fine globules or spheres and lacks the flaky appearance of the product as prepared by our preferred method. However, regardless of the method used in drying the cooked material, when the finished product is stirred with water of any temperature the product instantly absorbs the fluid, becomes a mush or porridge, is free from lumps, and immediately presents the appearance and has the characteristics of a cereal which has been thoroughly cooked."

2,006,254.—*Arvid E. Anderson*, Drexel Hill, Pa. Automatic Reclosing Circuit Breaker System. Patent dated June 25, 1935. Disclaimer filed May 6, 1942, by the assignee, *General Electric Company*.

Hereby enters this disclaimer of claims 4 and 7 of said patent.

2,067,533.—*Harry L. Johnson*, Waukegan, Ill. Spark Plug Cover. Patent dated January 12, 1937. Disclaimer filed May 6, 1942, by the assignee, *Johnson Brothers Engineering Corporation*.

Hereby disclaims claims 1 and 2 of said Letters Patent.

2,250,545.—*Louis A. Mikeska*, Westfield, and *Eugene Lieber*, Linden, N. J. Lubricating Composition. Patent dated July 29, 1941. Disclaimer filed April 14, 1942, by the assignee, *Standard Oil Development Company*.

Hereby enters this disclaimer to claims 1, 2, 3, 6, and 7.

Condition of Applications Under Examination at Close of Business May 16, 1942

(Total number of applications awaiting action, excluding Trade-Mark Division, 46,945; Trade-Mark Division, 1,009. Oldest new case, July 25, 1941; oldest amended, April 28, 1941.)
(The dates given are 1941 except where † indicates 1942)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Sept. 8	Sept. 10	698
6708	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Nov. 14	Nov. 14	662
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	†Jan. 8	†Jan. 2	630
7063	4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating, Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	Dec. 11	Dec. 15	483
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	Dec. 9	Nov. 29	433
4898 C	6. LEWERS, A. M., Carbon Chemistry (part)	Sept. 25	Sept. 29	1269
5725	7. JARBOE, C. G., Optics; Photography	Sept. 25	Sept. 26	1125
3885	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	Oct. 31	Nov. 12	740
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Nov. 7	Oct. 30	653
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.			
5087 B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	†Feb. 19	†Jan. 27	337
7701	12. SPINTMAN, SAMUEL (Act.), Machine Elements; Mechanical Starters; Stop Mechanisms	Dec. 4	Dec. 6	518
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Sept. 6	Sept. 3	619
5097	14. FREEHOF, H. B. (Act.), Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	Dec. 24	Dec. 22	617
4897	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Oct. 9	Oct. 10	1121
5716	16. SPENCER, C. J., Telegraphy; Telephony	Nov. 10	Nov. 10	624
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Aug. 16	Aug. 8	1011
4612	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Nov. 3	Oct. 15	580
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Oct. 25	Oct. 28	566
6605	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	Dec. 12	Dec. 13	403
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	†Jan. 17	Dec. 24	386
5600	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	July 25	July 25	1867
7624	23. BUTTNER, W. J., Registers (part)	Sept. 8	Sept. 13	223
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Nov. 12	Nov. 15	777
5709	25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Dec. 16	Dec. 8	460
5893	26. YOUNG, R. R., Electricity, Generation; Motive Power	Dec. 24	Dec. 20	465
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	Oct. 18	Aug. 19	525
4628	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	Dec. 27	Oct. 3	370
5082	29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	Oct. 20	Oct. 20	678
4083	30. McCANN, L. P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidistats.	†Feb. 9	†Feb. 6	411
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	Nov. 24	Nov. 24	1440
4086	32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Nov. 17	Nov. 17	895
6096	33. KAUFFMAN, H. E. (Act.), Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads.	Nov. 1	Nov. 3	828
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Surface Track; Track Sanders; Draft Appliances; Signals and Indicators.	†Jan. 3	†Jan. 16	414
3876	35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Portable Receptacles	Aug. 25	Aug. 13	992
7892	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Nov. 18	Nov. 8	656
5886 B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	†Feb. 2	†Jan. 6	522
3084	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stoneworking; Wells; Plastic Compositions.	Oct. 24	Oct. 24	788
4878	39. WHITNEY, F. L., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	†Jan. 16	†Jan. 5	473
7880	40. DRUMMOND, E. J., Metallic, Wood, Paper, and Special Receptacles	Oct. 18	Oct. 18	1478
7612	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	Nov. 29	Nov. 27	527
5882	42. CUTTING, H. O., Electric Signaling	Dec. 3	Dec. 2	498
4886 B	43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Sept. 24	Sept. 18	886
4087 B	44. HARVEY, L. P., Refrigeration	Dec. 5	Nov. 6	345
7093	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Sept. 23	Oct. 16	737
4613	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Oct. 4	Oct. 4	754
6082	47. KANOF, W. J., Clutches; Brakes	Aug. 25	Aug. 22	1066
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Oct. 17	Oct. 17	855
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Oct. 25	Oct. 20	684
4701	50. LEVIN, S., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	Oct. 16	Oct. 17	1623
5628	51. BACKUS, C. D., Radiant Energy (part)	†Feb. 14	†Feb. 12	412
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	†Jan. 8	†Jan. 16	348
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Oct. 16	†Apr. 28	551
5883	54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	Dec. 30	Dec. 23	510
6883	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	†Jan. 7	†Jan. 9	261
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Sept. 22	Sept. 22	1348
6613	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	Dec. 16	†Jan. 7	234
5605	58. DOWELL, E. F., Abrading; Bottles and Jars	†Jan. 20	Dec. 16	402
4709	59. SHEPPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	Aug. 30	Aug. 20	1443
5896	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Dec. 15	Dec. 15	288
6724	61. YUNGKWAI, B., Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	Oct. 9	Oct. 18	798
5621	62. PUGH, E. C., Games; Geometrical Instruments	Oct. 25	Aug. 25	608
4888	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	Aug. 12	Aug. 6	1348
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats and Glue; Liquid Coating Compositions; Fuel.	Nov. 4	Nov. 1	1632
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	Oct. 31	Dec. 2	420
2099 B	Trade Marks: F. A. RICHMOND	†Mar. 21	†Apr. 11	1009
2605	Designs: H. H. KALUPY	†Mar. 26	†Apr. 14	630

DECISIONS IN PATENT AND TRADE-MARK CASES

Supreme Court of the United States

PECHEUR LOZENGE CO., INC.
v.
NATIONAL CANDY CO., INC.

No. 648. Decided March 30, 1942

TRADE-MARKS—COMMON LAW.

Where the only cause of action that the record could possibly support was for unfair competition and common law "trade-mark infringement", to which local law applies, *Held* that the decree below would be vacated and the cause remanded to the Circuit Court of Appeals to afford it opportunity to apply the appropriate local law.

ON WRIT of certiorari to the United States Circuit Court of Appeals for the Third Circuit. Decree vacated and cause remanded.

Mr. Alfred J. L'Heureux (*Mr. Joseph Fairbanks* and *Mr. Peter X. McManus* with him on the brief) for Pecheur Lozenge Co., Inc.

Mr. James D. Carpenter, Jr., for National Candy Co., Inc.

PER CURIAM:

Petitioner brought this suit in the district court to recover damages and for an injunction restraining trade-mark infringement and unfair competition. There was diversity of citizenship and the bill of complaint alleged that "this suit arises under the trade-mark laws of the United States" and that petitioner's wrapper design "was registered in the United States Patent Office by the plaintiff on May 1, 1936, under the No. 47,748." It prayed treble damages "in accordance with the provisions of the trade-mark law of 1905," and was amended to allege registration of a second wrapper design in the Patent Office under the No. 46,862.

A decree for petitioner, 36 F. Supp. 730, was reversed by the Circuit Court of Appeals for the Third Circuit. 122 F.2d 318.

Both courts below having failed to consider or apply local law, we granted certiorari, 314 U. S. —, in order to determine whether local law or Federal law should have been applied in a suit for infringement of a trade-mark registered under the Trade Mark Act of 1905, 33 Stat. 724, and we requested counsel "to present their views as to whether State law governs and, if so, what the applicable State law is."

The opinions below, the printed record and the petition for certiorari give no indication that the suit was not founded upon a trade-mark registered under the 1905 act, as the bill of complaint had made it appear. But an examination of the original exhibits, not printed in the record, and of petitioner's brief on the merits here, discloses that the registration referred to is that of petitioner's labels under the copyright law of the United States, and not registration under the trade-mark law. It thus appears that petitioner has alleged no cause of action under the copyright law and is not entitled to the benefits of registration under the trade-mark law. The only cause of action that this record could possibly support is for unfair competition and common law "trade-mark infringement," to which local law applies. See *Fashion Guild* v. *Trade Commission*, 312 U. S. 457, 468.

The decree will be vacated without costs in this Court to either party, and the cause will be remanded to the circuit court of appeals, to afford it opportunity to apply the appropriate local law, and for such further or other proceedings as in the circumstances may be proper.

Decree vacated and cause remanded.

Supreme Court of the United States

MUNCIE GEAR WORKS, INC., ET AL.
v.
OUTBOARD, MARINE & MFG. CO. ET AL.

No. 323. Decided March 30, 1942

1. PATENTS—CERTIORARI.

"While there was no conflict of decision with respect to these claims, we granted certiorari in view of the questions presented and because the patent dominates a substantial portion of an industry so concentrated in the seventh circuit that litigation in other circuits, resulting in a conflict of decisions, is unlikely."

2. SAME—VALIDITY—PUBLIC USE OR SALE—PATENT NO. 1,716,962.

Where the application for Patent No. 1,716,962, granted to Harry L. Johnson on June 11, 1929, was filed on August 25, 1926, but, as filed, in no way suggested the combination set forth in patented claims Nos. 11, 12, 13, and 14, *Held* that the claims were void under section 4886 R. S.

3. SAME—SAME—SAME.

"The claims in question are invalid if there was public use, or sale, of the device which they are claimed to cover, more than two years before the first disclosure thereof to the Patent Office. * * * Section 4886 of the Revised Statutes would in terms provide for their invalidity had they been offered by application rather than by amendment; and whatever may be the efficacy of an amendment as a substitute for an application, it surely could effect no more than the application itself."

4. SAME—SAME—PUBLIC INTEREST.

"To sustain the claims in question upon the established and admitted facts would require a plain disregard of the public interest sought to be safeguarded by the patent statutes, and so frequently present but so seldom adequately represented in patent litigation."

ON WRIT of certiorari to the United States Circuit Court of Appeals for the Seventh Circuit. Reversed.

Mr. Samuel E. Darby, Jr. (*Mr. Charles W. Rumler* and *Mr. Floyd H. Crews* with him on the brief) for Muncie Gear Works, Inc., et al.

Mr. Henry M. Huxley (*Mr. George L. Wilkinson*, *Mr. S. L. Wheeler* and *Mr. Isadore Levin* with him on the brief) for Outboard, Marine & Mfg. Co. et al.

Mr. Justice JACKSON delivered the opinion of the Court.

We are required in this case to determine the validity of claims numbered 11, 12, 13, and 14 of Letters Patent No. 1,716,962, granted on June 11,

1929, to Harry L. Johnson for invention in a "water propulsion device". Respondent Johnson Brothers Engineering Corporation is the owner of the patent, and respondent Outboard, Marine & Manufacturing Company, is the exclusive licensee thereunder. Petitioner Muncie Gear Works, Inc., manufactured outboard motors which are claimed to infringe, and petitioner Bruns & Collins, Inc., sold them.

Respondents contend that this is a validly issued patent covering an invention which solved the problems of "cavitation" by relatively large and fast outboard motors. "Cavitation" is the drawing of air by the propeller from above the surface of the water of the propeller itself. Air so drawn reduces the propulsive effect of the propeller and causes "racing" of the motor with consequent risk of its disintegration and danger to the user. Increased speed or power entails a greater tendency to cavitate. Cavitation may be diminished by setting the propeller deeper in the water, but this increased projection increases resistance and retards speed.

Long before the patent in question, it was known that cavitation could be controlled, and in practice it was controlled, in at least all but relatively large and fast outboard motors, by setting a flat plate horizontally above the propeller and beneath the surface of the water, to act as a baffle and prevent the propeller from drawing air.[1] Respondents presented expert testimony to the effect that relatively large and fast water-cooled outboard motors cannot be successful unless they embody the asserted invention which respondents say is the subject matter of the claims in question. In general, this may be said to consist in the use of an anti-cavitation plate on a housing for the engine and propeller shafts enclosing the water passages for the cooling system, shaped both above and below the plate so as to reduce water displacement and resistance and thus to reduce or eliminate eddy currents forming vortexes through which air can be sucked into the propeller. This permits adequate control of cavitation by means of a not unduly large anti-cavitation plate.

Harry L. Johnson, an experienced engineer and manufacturer of outboard motors, filed his application for the patent on August 25, 1926, but it in no way suggested the combination now asserted as his invention. The single sheet of drawing accompanying the application was not changed during the prosecution of the application, and is the same as the drawing of the issued patent. This drawing showed an outboard motor assembly comprising, among other things, an engine at the top connected with a propeller at the bottom, with an anti-cavitation plate located horizontally above the propeller approximately midway between top and bottom of the housing for the engine and propeller shafts. All water passages for the cooling system beneath the normal water level were shown to be enclosed in the housing. No cross section of this housing was drawn or indicated, and for all that appears from the drawing it might have been circular, triangular or rectangular. The drawing showed an arched member extending from the housing and anti-cavitation plate over the top and to the rear of the propeller, containing openings and passages for the intake and discharge of water, and ending in a curved "deflection plate" extending rearwardly like a fixed rudder. From the specifications and claims it appeared that the purpose of the deflection plate was to compensate for the side and pivotal force of the moving propeller, which tended to draw the boat off its course unless the operator made constant adjustment to offset the "side throw." The specifications and drawings both indicated an anti-cavitation plate which the specifications said "prevents cavitation" but it was in no way asserted that the cavitation plate was new, or that it was being employed in any novel cooperative relation to the other elements.

All of the claims of the application as originally made were rejected on December 15, 1926. On December 13, 1927, Johnson offered amendments which retained and amended the prior claims and added others directed to the feature of the deflection plate. In urging allowance, he said, among other things: "It is conceded that cavitation plates are old in the art as shown in the patent to Johnson cited," and he proceeded to urge as an invention the combination of the cavitation plate and the arching member or deflection plate. A similar supplemental amendment was filed on January 19, 1928. Several of the original claims as amended were allowed, and the rest of the claims rejected, on June 7, 1928.

On December 8, 1928, Johnson came forward with new claims. Claims 20 to 25 offered by this amendment made no mention of the deflection plate or of the arching members, but did not even suggest the presently asserted invention. On March 30, 1929, Johnson cancelled these claims and offered further amendments to his original application, together with a supplemental oath that he had invented the subject matter of the application as so amended, prior to the filing of the original amendment.[2] The effect of those changes was aptly described by the Patent Examiner: "The amendments have been such that the claims now emphasize the anti-cavitation plate rather than the anti-torque plate." With changes which are immaterial here, the new claims so offered became the claims in issue. In them Johnson for the first time made claims relating to the exterior surface of the housing. Claim 12 described the housing as having "unbroken outer wall surfaces at each side," and claim 14, as having "smooth and unbroken walls." Claims 11 and 13 were silent on the subject. The amendment also set forth an addition to the description which was incorporated in the description of the patent as issued. Here we find the expression "relatively smooth and substantially stream-line surfaces." Other than these, no indication of the nature of the surface or cross section of the housing was given at any time during the prosecution of the application.

[1] Smith, No. 1,226,400 (1917); Johnson, No. 1,467,641 (1923).

[2] No question has ever been raised in this case respecting the veracity of this oath. Cf. *Elizabeth* v. *Pavement Co.*, 97 U. S. 126, 130.

The petitioners interposed defenses to all of the eight patents upon which respondents sued them in the District Court for the Northern District of Illinois, Eastern Division[3] which we take to have put in issue the question whether the claims were void because made more than two years after the first public use of the device.[4] At the trial two of the officers of respondent Outboard, Marine & Manufacturing Company testified on direct examination as respondents' witnesses to the effect that in January or February of 1926 one of this respondent's predecessors put on the market licensed outboard motors equipped with smooth-walled housings, anti-cavitation plates, and internal water passages as described in the claims in suit; and that at least one competitor (which was also a predecessor) had brought out a substantially similar, but unlicensed, motor about a year later.[5]

[1] In an unreported decision the district court did not touch on this question, but found as a matter of fact and of law that the claims in question were invalid because merely aggregational. On appeal to the circuit court of appeals the issue of sale or public use was not clearly presented,[6] if indeed it was presented at all; and the opinion rendered by that court did not advert to it, although it held that the claims here involved were valid and infringed. 119 F.2d 404. While there was no conflict of decision with respect to these claims,[7] we granted certiorari in view of the questions presented and because the patent dominates a substantial portion of an industry so concentrated in the seventh circuit that litigation in other circuits, resulting in a conflict of decisions is unlikely. 314 U. S. —. *Schriber-Schroth Co.* v. *Cleveland Trust Co.*, 305 U. S. 47, 498 O. G. 277.

Section 4886 of the Revised Statutes, as amended and applicable to the present case, provided for the issuance of a patent to an inventor upon certain conditions, one of which was that his invention was "not in public use or on sale in this country for more than two years prior to his application."[8]

In an effort to avoid the effect of this provision, respondents contend that the question of its applicability was not raised either in the district court or in the circuit court of appeals; that there was no opportunity to meet the issue; and that the invention as finally claimed was disclosed by the application as originally made or in any event as amended on December 8, 1928.

However, the evidence of public use and sale, given, as we have pointed out, by respondents' own officers and witnesses,[9] has not been questioned or

[3] The patent here involved and two others were litigated in one suit, with which was consolidated another suit involving five other patents. One of the patents was withdrawn prior to trial, and the courts below disposed of six of the seven remaining patents adversely to the respondents.

[4] These read as follows:

"The defendants are informed and believe and therefore aver that each of the Letters Patent in suit was and is void and of no effect in law in that the alleged inventions or improvements described therein were invented by, or known to, or used by others in the United States, before the alleged inventions of the said patentees of the patent in suit, and for more than two years prior to the respective applications for said patents; among which prior inventors and users and those having prior knowledge are the patentees and their assigns of the several Letters Patents named in the annexed schedule 'A,' at the places and addresses named in said Letters Patent, and other prior inventors, users and those having prior knowledge the names of whom, and the times and places of such other public uses, being at the present time unknown to defendants, but which, when fully ascertained, defendants pray leave to insert in this answer by amendments thereto. [No such amendment was ever made or attempted.]

"Defendants are informed and believe and therefore aver that each of the Letters Patent in suit is invalid and void for the reason that the alleged invention thereof purported to be patented thereby are not the same as were disclosed in the application therefor as originally filed but are substantially different from any invention indicated, described, or suggested in the original applications therefor; that the applications therefor were amended in the specification and claims during the prosecution thereof and the alleged patented subject matter is not supported by oath as required by law; that the said applications were unlawfully enlarged during the prosecution thereof; and that the claims of said Letters Patent are invalid and void for the reason that they include matter not shown or adequately described in the said patents."

[5] Tanner, vice president in charge of the sales of the Johnson Motors Division, testified as follows:

"Q. Are you familiar with the type of lower unit construction which is shown on this chart reproduced from the drawings of the Johnson Patent No. 1,716,962? A. I am.

"Q. Do you recall when such a construction was introduced to the market, and by whom? A. To the best of my recollection it was for the model year of 1926, which would mean it was probably introduced about January or February of 1926.

"Q. By whom? A. By Johnson Motor Company.

"Q. At that time was Evinrude Motor Company a competitor of Johnson Motor Company? Yes, they were.

"Q. At that time was Elto Motor Company a competitor of Johnson Motor Company? A. Yes.

"Q. At that time was Lockwood-Ash Motor Company a competitor of Johnson Motor Company? A. Yes.

"Q. What was the result of the introduction of this model by Johnson Motor Company in 1926? A. As far as I was concerned, I was connected with the Lockwood-Ash Motor Company that was making a motor in 1926 and not having that combination; and, not having it, we did not have the satisfactory performance that the Johnson combination had.

"Q. In what respect did your motor not have as satisfactory a performance? A. It had cavitation.

"Q. What did your motor lack particularly of the structure shown in this Johnson patent? A. We did not have an anti-cavitation plate.

"Q. What did you do to remedy this difficulty? A. In the fall of 1926, for the 1927 model year, we put on an anti-cavitation plate.

"Q. Did that remedy your difficulty, so far as cavitation was concerned? A. Yes.

"Q. Do you know what was done by Evinrude and Elto? A. My recollection is that possibly, not at the same moment, I doubt Evinrude did the same year, put on an anti-cavitation plate on the stream line housing. I don't remember clearly whether Elto did it that year or the next, but they subsequently did put on the same combination."

Irgens, chief engineer and production manager of the Evinrude division, testified as follows:

"Q. How long has it been true that all of the larger sizes of outboard motors have been equipped with smooth walled lower unit housings, anti-cavitation plates intermediate the top and bottom thereof, and internal water passages? A. They became popular about 1926, and from then on practically all of them have been made that way."

[6] The brief of petitioners in the circuit court of appeals, which has been certified to this Court by the clerk of that court, contained the following statement under the heading of anticipation: "In considering these claims it is appropriate to first have in mind their historical background, in view of the importance that plaintiffs place upon them as being for subject matter that 'solved a problem' previously 'stalling' a great industry. In the first place the subject matter of these claims was in no way considered in or made a part of the original application. * * * It was not until more than two years later that the patentee on December 6, 1928, by his amendment 'C', added claims to his application covering any of the matter that is now deemed to be of such great importance. Then, for the first time the patentee claimed, in claims originally numbered 17 to 25, inclusive, the anti-cavitation plate apart from the limitations which characterized his originally filed disclosures and originally filed claims."

[7] They had previously been sustained by a district court in the sixth circuit. *Johnson Brothers Engineering Corp.* v. *Caille Bros. Co.*, 8 F. Supp. 198. Caille is no longer in the business.

[8] The period is now one year. Act of August 5, 1939, 53 Stat. 1212, 35 U. S. C. § 31.

[9] See footnote 5, supra.

contradicted, and is interpreted by respondents' counsel in accordance with our view of it. In their brief they say

"It is true that after Johnson Motor Company, licensee under the patent in suit, had popularized devices embodying the subject matter of the claims in suit, at least one competitor copied the combinations of the claims in suit from the Johnson motor before claims closely resembling those in suit were presented to the Patent Office in December, 1928. This was done by Lockwood Ash Motor Company, then a competitor, but subsequently merged to constitute a predecessor of respondent Outboard, Marine & Manufacturing Company. * * * Lockwood Ash first adopted this combination for the 1927 season. The model year commenced in January or February. * * * Concededly, the original claims were limited additionally either to the deflection plate or to the arched support. But claims without these limitations had, contrary to petitioners' assertions, been filed December 8, 1928. The difference in date is critical because the record shows that the only manufacture of devices embodying the invention which had occurred more than two years prior to December 8, 1928, was licensed manufacture by Johnson Motor Company, predecessor of respondent Outboard, Marine & Manufacturing Company, and in 1926, exclusive licensees of respondent Johnson Brothers Engineering Corporation, owner of the application for the patent in suit. * * * The only concern which produced outboard motors in accordance with the invention of the patent in 1925 was the exclusive licensee under the application for the patent in suit. * * * March, 1929, would be more than two years after the opening of the 1927 model year; but the actual date in December, 1928, when the patentee claimed the specific invention in controversy, without regard to deflection plate or arched support, was well within two years of the first competitive use of the invention, even assuming that the two year period is of any significance in the present case. * * *"

It is clear to us, however, that the amendments of December 8, 1928, like the original application, wholly failed to disclose the invention now asserted.

[2] [3] The claims in question are invalid if there was public use, or sale, of the device which they are claimed to cover, more than two years before the first disclosure thereof to the Patent Office. Cf. *Railway Co.* v. *Sayles*, 97 U. S. 554, 557, 559, 563–64; *Schriber-Schroth Co.* v. *Cleveland Trust Co.*, supra, at 57. Section 4886 of the Revised Statutes would in terms provide for their invalidity had they been offered by application rather than by amendment; and whatever may be the efficacy of an amendment as a substitute for an application, it surely could effect no more than the application itself.

[4] We think the conclusion is inescapable that there was public use, or sale, of devices embodying the asserted invention, more than two years before it was first presented to the Patent Office. We are not foreclosed from a decision under section 4886 on the point by the obscurity of its presentation in the courts below. This issue has been fully presented to this Court by the petition for a writ of certiorari, and in subsequent briefs and argument; and there is not the slightest indication that respondents have been prejudiced by such obscurity. To sustain the claims in question upon the established and admitted facts would require a plain disregard of the public interest sought to be safeguarded by the patent statutes, and so frequently present but so seldom adequately represented in patent litigation.

We therefore hold that the claims in question are invalid under section 4886 of the Revised Statutes, and accordingly have no occasion to decide any other question in the case.

Reversed.

U. S. Court of Customs and Patent Appeals

HYGRADE SYLVANIA CORPORATION
v.
SONTAG CHAIN STORES CO., LTD.
No. 4,504. Decided February 2, 1942
[— F.(2d) —]

1. TRADE-MARKS—CORPORATE NAME.
"Hy-Ray" is not the corporate name, "Hygrade Sylvania Corporation," nor any part thereof.
2. SAME—OPPOSITION.
An opposition may be based upon prior use of a trade-mark, irrespective of the question of ownership of that mark.
3. SAME—DESCRIPTIVENESS—"HYGRADE".
"Hygrade" is an obviously descriptive term, meaning "high grade".
4. SAME—CONFUSING SIMILARITY.
The notation "Hy-Ray" as a trade-mark for radio tubes *Held* not confusingly similar to a registered trade-mark also for radio tubes comprising a triangular figure having within it the word, "Hygrade", in fanciful type, this word being disclaimed apart from the mark shown, and further *Held* not confusingly similar to three other marks, including the word "Hygrade".

APPEAL from Patent Office. Affirmed.

Mr. Laurence Burns (*Mr. Newton A. Burgess* of counsel) for Hygrade Sylvania Corporation.

Mr. Albert J. Fihe for Sontag Chain Stores Co., Ltd.

GARRETT, *P. J.*:

This is an appeal from the decision of the Commissioner of Patents affirming that of the Examiner of Interferences dismissing appellant's notice of opposition to the application of appellee for the registration of the notation "Hy-Ray" for use as a trade-mark for radio tubes, and adjudging appellee entitled to register same.

Appellee's application for registration was filed in the Patent Office May 10, 1937, use of the mark being claimed therein "since May 3rd, 1937." After certain amendments to the application notice of it was published in the usual manner in the September 21, 1937, issue of the OFFICIAL GAZETTE of the Patent Office, and, on October 5, 1937, appellant filed notice of opposition, which notice was amended October 20, 1937, to include an additional allegation.

In the notice of opposition, appellant, inter alia, alleged:

The Hygrade Sylvania Corporation has recorded its corporate name with the Commissioner of Patents, and is the owner of Trade-Mark 110,463, registered in the United States Patent Office May 23, 1916, under the act of February 20, 1905, for use on Electric Incandescent Lamps and renewed August 4, 1936; of Trade-Mark 216,203, registered August 3, 1926, under the act of March 19, 1920, for use on Electric Incandescent Lamps; and of Trade-Mark 288,095, registered October 20, 1931, under the act of February 20, 1905, for use on Electron Radio Tubes; all three registrations being in Class 21, Electric Machinery, Apparatus, and Supplies.
* * * * * * *
In addition to its present registered marks, the Hygrade Sylvania Corporation uses also a mark consisting of the word "Hygrade" in capital letters arranged in the arc of a circle, with a small triangle below the printed word. This mark has been continuously used by the corporation on its lamp bulbs since about 1925.
Each of the registered Trade-Marks 110,463 and 288,095 includes the printed word "Hygrade" as a prominent part of the mark, and Trade-Mark 216,203 consists of the word "Hygrade" in a particular form of lettering.

Copies of the respective registrations and a copy of the unregistered mark were placed in evidence. Registration 110,463, which recites that it is for electric incandescent lamps, comprises a triangular figure in association with the word "Hygrade" placed within the triangle above a representation of an incandescent lamp, or light bulb, both the word and the representation of the bulb being disclaimed apart from the mark as shown in the drawing.

Registration 288,095, which recites that it is for electric radio tubes, shows a quite similar triangular figure having within it the word "Hygrade," which word is disclaimed "apart from the mark shown in the drawing; no common law rights however being waived."

Registration 216,203 (under the act of March 19, 1920), which recites that it is for electric incandescent lamps, consists solely of the word "Hygrade." In each instance the word appears in fanciful type.

The unregistered mark referred to in the notice of opposition and alleged to have been used for lamp bulbs since about 1925 consists of the word "Hygrade" placed above a small triangular figure.

It may be said that appellant had predecessors in business from or through whom it derived whatever of title it holds to the marks above described.

In the notice of opposition, as amended, appellant asserted two grounds of opposition which are tersely stated in the decision of the Examiner of Interferences as follows:

The allegations of fact contained in the notice of opposition relate to and seek to draw in both the name and confusion in trade clauses of section 5 as the statutory grounds for negativing the right of registration (section 7) claimed by the applicant.

It may be said that the answer of appellee to the notice of opposition conceded the recording "by the opposer of its alleged corporate name with the Commissioner of Patents." The Examiner of Interferences, citing certain authorities, says of what we may designate the "name phase" of the controversy:

Considering first the name clause, the evidence shows that opposer uses the notation "Hygrade Sylvania Corporation" to distinguish itself from other persons. Inspection of the application involved herein shows that the mark sought to be registered by the applicant is the notation "Hy-Ray." The Examiner is not persuaded that use in trade of "Hy-Ray" by the applicant to indicate the origin of its goods will be likely to result in any confusion of persons such as the parties hereto.

The reasons of appeal set forth in the appeal to the Commissioner from the decision of the Examiner of Interferences made no reference to that part of the latter's decision relative to the allegation respecting confusion by reason of the name clause of the trade-mark registration act. The allegation did not appear in the notice of opposition as originally filed, but was inserted by the amendment of October 20, 1937, wherein it was alleged that the application—

includes the distinguishing features of the corporate name of the Hygrade Sylvania Corporation, and would be likely to cause confusion in the mind of the public, leading the latter to believe that the goods bearing the mark were products of the Hygrade Sylvania Corporation, and thereby causing damage to the latter corporation.

The reasons of appeal to the Commissioner not having directed his attention to that question he, of course, was not required to take notice of it, but he did make reference to it as follows:

The Examiner [of Interferences] appears to have assumed that opposer was asserting as an additional ground of opposition that applicant's mark is an appropriation of opposer's corporate name. I find no such allegation in the notice of opposition, and even had it been pleaded I am clearly of the opinion that it is untenable.

In a petition for rehearing appellant pointed out the amendment along with other matters. The Commissioner denied the petition without comment. The assumption is that he regarded the allegation respecting the "name phase" to be "untenable," as stated in his first decision.

The seventh reason of appeal set forth in the notice of appeal to this court alleges:

The Commissioner erred in holding that there was no allegation in the notice of opposition that applicant's mark is an appropriation of opposer's corporate name.

[1] In the light of the record that reason of appeal is not apt. There is no reason of appeal alleging that error was committed in the decision on this point, which necessarily implied that the applicant (appellee here) was not seeking to register appellant's corporate name, or any part thereof. We may say, however, that if such an allegation were before us it would be clearly untenable. "Hy-Ray" is not appellant's name, nor is it any part of appellant's name.

In passing upon the second ground embraced in the notice of opposition, that of the likelihood of confusion by reason of the alleged similarity of the marks of the respective parties, both tribunals of the Patent Office (holding that the goods were of the same descriptive properties) discussed at some length the question of ownership and there seems to have been disagreement between them on the question of law respecting ownership. As we understand the decision of the Examiner of Interferences, he held, in effect, that the word "Hygrade" in appellant's marks is clearly descriptive and indicates the claimed character of the tubes and bulbs, not their origin, and by reason of its descriptive character appellant was not the owner of same and, therefore, not entitled to oppose appellee's application, he holding that the term "Hy-Ray" was not descriptive of appellee's goods and hence was susceptible of ownership.

The Commissioner said, in substance, with respect to registration No. 216,203 (consisting solely of the word "Hygrade"), granted under the act of March 19, 1920, that there was no satisfactory proof of opposer's ownership of it and that hence it might be disregarded. With respect to the other two registrations which were under the act of February 20, 1905, he held that only one—288,095—need be considered. As above pointed out, the latter mark was registered for use on electron radio tubes, practically identical with the goods upon which appellee claims use of the notation "Hy-Ray," and consists of a triangular figure within which is embraced only the disclaimed word "Hygrade." We do not find in the Commissioner's de-

cision any express holding respecting the ownership by appellant of the two registrations entered under the act of February 20, 1905. We deduce from his decision, taken as a whole, that he regarded the question of ownership immaterial so far as the right of appellant to oppose in the instant case is concerned, and, therefore, did not pass upon it. He quoted from his decision in a prior case (*Illuminating Engineering Society v. Seelig Specialties Co.*, 504 O. G. 856, 42 USPQ, 282) wherein he expressed the opinion that

"an opposer is not required to own a trade-mark or to use it strictly as such in order to prevent registration to another of a confusingly similar mark,"

and added,

"I think that is a correct statement of law * * *."

In the case of *Trustees Arch Preserver Shoe Patents v. J. McCreery & Co.*, 18 C. C. P. A. (Patents) 1507, 49 F.(2d) 1068, 410 O. G. 541, the appellee was seeking registration of the notation "Foot Preserver" for use on boots and shoes. Appellant was opposing the registration, basing its opposition upon its claimed ownership, registration and use of certain marks containing the notation "Arch Preserver" for identical goods. The notice of opposition alleged four registrations, two of them being under the act of February 20, 1905, and two under the act of March 19, 1920. It was there conceded that the two last might not be relied upon, as registrations, as a basis for opposition, in consequence of which concession we gave them no consideration. In the first of the two registrations (dated October 24, 1916) under the act of February 20, 1905, the notation "Arch Preserver" had been disclaimed apart from the mark shown, but in the second it had not been disclaimed. We held, citing authorities, that by reason of its original disclaimer appellant did not by its second registration acquire any rights to oppose which it did not possess under its first registration, but agreed with the Commissioner that appellant had the right to oppose

"by reason of the use shown of 'Arch Preserver' and without reference to whether 'Arch Preserver' is or is not descriptive as used, * * * notwithstanding its disclaimer in the certificate of October 24, 1916."

The principle of that decision is in point here.

[2] In the reasons of appeal embraced in the notice of appeal to us, appellant challenges the correctness of the Commissioner's holding that there is no satisfactory proof of appellant's ownership of the mark disclosed in the registration under the act of March 19, 1920, and also alleges that the Commissioner "erred in entirety [entirely] neglecting to consider or mention" its unregistered mark above described, which was introduced in evidence as appellant's Exhibit C, and in its brief before us appellant argues that the "Commissioner's decision is clearly inconsistent and is very confusing." We fail to discern any particular force in the allegations of error respecting the matters so named or in the argument respecting such allegations, since appellant had the right to base an opposition upon prior use irrespective of the question of ownership. The ultimate question is whether the marks are confusingly similar.

[3] Appellant placed four marks in evidence in each of which the only word is "Hygrade," an obviously descriptive term meaning "high grade." The Commissioner took the particular mark of appellant which is applied to goods identical with the goods of appellee for purposes of comparison and, while stating that there

"is some resemblance in appearance and in sound between the notations 'Hy-Ray' and 'Hygrade',"

declared,

"* * * when opposer's mark in its entirety is compared with applicant's mark, I think there is no reasonable likelihood of confusion between the two."

[4] We are in agreement with that statement, and, in our opinion, it is applicable no matter which of appellant's marks may be taken for the purpose of comparison.

In the brief of appellant before us it is asserted, in substance, that the term "Hy-Ray," when applied to the goods of appellee is a descriptive term. This was not set forth as a ground of opposition in appellant's notice of opposition, nor was its claimed descriptive character therein referred to directly or indirectly. The Examiner of Interferences in the course of his decision said: "* * * it appears the notation 'Hy-Ray' used by the applicant does not perform the function of descriptiveness." Since the question was not raised, nor even hinted at, by anything in the notice of opposition, it is our assumption that the quoted statement of the Examiner of Interferences was based upon a consideration of appellee's mark in an ex parte manner, a proceeding proper under section 7, 15 USCA §17. The Commissioner made no reference to the question in his decision. Doubtless he would have done so had he disagreed with the Examiner of Interferences regarding it.

Whatever may be the fact as to descriptiveness of appellee's mark, appellant here has not placed itself in a position to make that matter a basis of opposition, nor is the case deemed to be before us in a situation where we now should pass upon the question as an ex parte matter.

The decision of the Commissioner of Patents is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,382,738, M. C. Latour, Amplifying apparatus, D. C., N. D. Ill., E. Div., Doc. 15207, *Latour Corp.* v. *Zenith Radio Corp.* By stipulation complaint and counterclaim dismissed without prejudice Jan. 15, 1942.

1,401,156, C. F. Jenkins, Lawn mower, C. C. A., 2d Cir., Doc. —, *Moto-Mower Co.* v. *E. C. Stearns & Co.* Decree reversed (notice Mar. 23, 1942).

1,405,523, M. C. Latour, Audion or lamp relay or amplifying apparatus, D. C., N. D. Ill., E. Div., Doc. 15208, *Latour Corp.* v. *Zenith Radio Corp.* By stipulation complaint and counterclaim dismissed without prejudice (notice Jan. 15, 1942).

1,504,178, G. Young, Process for the production of ethers of carbohydrates, filed Mar. 17, 1942, D. C., N. D. Ill., E. Div., Doc. 4050, *M. C. Sweet* v. *Sherwin-Williams Co.*

1,528,227, H. W. Spooner, Conveyer system, D. C. Mass., Doc. 1083, *Lamson Corp.* v. *Alvey Ferguson Co. et al.* Stipulation of dismissal Mar. 11, 1942.

1,589,857, Katcher & Brudney, Die-casting machine, D. C., N. D. Ohio, E. Div., Doc. 20091, *M. Katcher* v. *Precision Castings Co., Inc.* Dismissed without prejudice for want of prosecution Mar. 3, 1942.

1,609,273, E. Davis, Pneumatic control and safety device for pressing machines, D. C. Del., Doc. 83, *The Prosperity Co., Inc.*, v. *American Machine & Metals, Inc.* Patent held not infringed; bill dismissed (notice Apr. 17, 1942).

1,614,136, M. C. Latour, Thermionic amplifying apparatus, D. C., N. D. Ill., E. Div., Doc. 15206, *Latour Corp.* v. *Zenith Radio Corp.* Complaint and counterclaim dismissed without prejudice Jan. 15, 1942.

1,614,924, B. F. Hutchison, Method of and means for producing camera copy for the photo-engraver, filed Apr. 20, 1942, D. C., S. D. N. Y., Doc. 18/49, *Transparent Printing Corp.* v. *Transograph Corp. et al.*

1,623, 564, P. Theurich, Advertising panel or decorative wall covering, D. C., S. D. N. Y., Doc. 7/112, *Window Advertising, Inc.*, v. *Reyburn Mfg. Co., Inc., et al.* Consent order and judgment discontinuing action (notice Mar. 7, 1942).

1,627,667, L. S. Riley, Machine for making corner mounts, filed Mar. 31, 1942, D. C. Mass., Doc. 1819, *L. S. Riley et al.* v. *Mounties, Inc.*

1,643,108, M. E. Bendelari, Closure for shoe uppers, filed (notice Mar. 29, 1942), D. C., Dist. of Columbia, Doc. 15114, *M. E. Bendelari* v. *Woodward & Lothrop.*

1,653,819, Northcott & Warford, Electro-therapeutical apparatus, D. C., S. D. Calif., C. Div., Doc. 1670–H, *Northford, Inc.*, v. *O. M. Justice.* Consent decree holding patent valid and infringed; injunction Mar. 5, 1942.

1,702,706, K. R. Schuster, Fireproof construction, D. C., S. D. N. Y., Doc. 15/276, *J. T. McCoy, Inc.*, v. *K. R. Schuster.* Judgment (notice Feb. 25, 1942).

1,703,814, J. G. Coutant, Pulverized fuel combustion, filed Apr. 9, 1942, D. C., S. D. N. Y., Doc. 18/7, *Foster Wheeler Corp.* v. *Furnace Engineering Co., Inc.*

1,724,697, A. C. Dobrick, Flaring tool, D. C., W. D. Pa., Doc. 28, *The Imperial Brass Mfg. Co.* v. *Acorn Mfg. Co.* Claims 1, 2, 5, 8, and 10 held infringed, injunction Apr. 15, 1941.

1,736,284, G. F. Hochriem, Weighing and ticket-printing machine, D. C. Del., Doc. 163, *Peerless Weighing & Vending Machine Corp.*, v. *International Ticket Scale Corp.* Dismissed (notice Mar. 24, 1942).

1,745,162 (a), J. Gordon, Ironing machine, D. C., N. D. Ill., E. Div., Doc. 2325, *J. Gordon* v. *Electric Household Utilities Corp.* Claim 7 held valid but not infringed; bill dismissed Jan. 29, 1942.

1,745,162 (b), 1,795,023, J. Gordon, Ironing machine, D. C., N. D. Ill., E. Div., Doc. 2071, *J. Gordon* v. *Conlon Corp.* Claim 7 of 1,745,162 held valid but not infringed; claims 7, 8, and 9 of 1,795,023 held invalid, claim 9 not infringed; bill dismissed with prejudice as to claim 4 of 1,745,162 and claim 9 of 1,795,023; bill dismissed for want of equity Jan. 29, 1942. Doc. 2129, *J. Gordon* v. *Westinghouse Electric & Mfg. Co.* Decree as above.

1,758,146, W. M. Cross, Domestic heating system, D. C., N. D. Ill., E. Div., Doc. 2070, *Mid-Continent Investment Co.* v. *The Mercoid Corp.* Injunction; bill dismissed Jan. 26, 1942.

1,763,380, C. E. Trube, Electric coupling system, D. C., N. D. Ill., E. Div., Doc. 15203, *Hazeltine Corp.* v. *Zenith Radio Corp.* By stipulation bill and counterclaim dismissed without prejudice Jan. 15, 1942.

1,773,260, R. M. Cutts, Compensator device, filed Oct. 14, 1940, D. C., W. D. Tex. (El Paso), Doc. 102, *R. M. Cutts, Jr.*, v. *W. R. Weaver Co.*

1,777,759, G. S. Melvin, Boiler stand, D. C., W. D. Pa., Doc. 26, *The Melvin Lloyd Co. et al.* v. *Stonite Products Co. et al.* Injunction against Lowe Supply Co. Oct. 17, 1940.

1,781,394, Iorio & Iorio, Accordion; 2,069,447, C. Iorio, same, D. C., N. D. Ill., E. Div., Doc. 1465, *Carl Fischer Musical Instrument Co., Inc.*, v. *Chicago Musical Instrument Co.* By stipulation cause dismissed with prejudice for want of equity Jan. 29, 1942.

1,783,995, C. Berg, Motor vehicle, D. C., E. D. Mich., S. Div., Doc. 3265, *Independent Motor Wheel Corp.* v. *Thornton Tandem Co., Inc.* Dismissed (notice Apr. 16, 1942).

1,795,023. (See 1,745,162 (b).)

1,810,710, C. E. Johansson, Gauge, D. C., E. D. Mich., S. Div., Doc. 1344, *C. E. Johansson et al.* v. *Federal Products Corp.* Dismissed without prejudice (notice Apr. 8, 1942).

1,813,732, E. E. Freeman, Furnace control, (declaratory judgment), D. C., N. D. Ill., E. Div., Doc. 1839—1842, *The Mercoid Corp.* v. *Minneapolis-Honeywell Regulator Co.* Claims 1, 4, 6, and 9 held valid and infringed; causes 1839 and 1842 dismissed for want of equity Mar. 24, 1942.

1,816,714, A. Adler, Lingerie pad, D. C., E. D. Pa., Doc. 1537, *M. Adler's Sons* v. *Apex Florists Supply Co. et al.* Injunction against M. Adler, Jr.; bill dismissed as to A. Zukin Apr. 17, 1942.

1,846,375, L. L. Torrey, Refrigerating plant, D. C., S. D. Calif. (Los Angeles), Doc. 1803–BH, *L. L. Torrey* v. *Sears, Roebuck & Co.* Dismissed with prejudice Mar. 18, 1942.

1,850,319, Fensom & Green, Advertising sign, D. C., S. D. Calif. (Los Angeles), Doc. 899–Y, *The Artkraft Sign Co.* v. *Electrical Products Corp. et al.* Dismissed as to Lackner Co., Inc., Nov. 27, 1941. Dismissed as to Electrical Products Corp. Mar. 30, 1941.

1,875,297, W. R. Gillies, Heat insulating material, D. C., E. D. Pa., Doc. 630, *Union Asbestos & Rubber Co.* v. *Raybestos Manhattan, Inc.* Dismissed Apr. 14, 1942.

1,877,246, R. E. Kwech, Blue printing, filed Apr. 14, 1942, D. C., S. D. Calif. (Los Angeles), Doc. 2179–RJ, *Crofoot, Nielsen & Co.* v. *McKinney Blueprint.*

1,898,085, H. Dreyfus et al., Production of artificial filaments, yarns or threads, D. C., S. D. N. Y., Doc. 11/15, *F. Rosenthal* v. *Celanese Corp.* Judgment (notice Apr. 1, 1942).

1,905,694, E. L. Foley, Article treating apparatus, D. C., N. D. Ohio, E. Div., Doc. 20609, *Underwood Machinery Co. et al.* v. *Pangborn Corp. et al.* Dismissed without prejudice for want of prosecution Mar. 3, 1942.

1,913,604, W. A. MacDonald, Wave signaling system, D. C., N. D. Ill., E. Div., Doc. 15324, *Hazeltine Corp.* v. *Zenith Radio Corp.* By stipulation bill and counterclaim dismissed without prejudice Jan. 15, 1942.

1,922,944, A. A. Gobeille, Elastic woven fabric, D. C., S. D. N. Y., Doc. 10/294, *Frank Associates, Inc.*, v. *J. B. Hoffman.* Consent order of discontinuance (notice Mar. 19, 1942).

1,924,963, C. O. Sherrill, Store, C. C. A., 1st Cir., Doc. 3702, *The Kroger Grocery & Baking Co.* v. *First National Stores, Inc., et al.* Decree of district court vacated and case remanded to that court for entry of decree in accordance with said stipulation (notice Mar. 5, 1942).

1,928,948, P. Oftedal, Weather strip, D. C., N. D. Ill., E. Div., Doc. 3936, *Advance Protex Weather Strip Co.* v. *Protex Weather Strip Mfg. Co.* Dismissed for want of jurisdiction Mar. 23, 1942.

1,932,041, H. Jacobson, Baling press, filed Mar. 5, 1942, D. C. Wis. (Milwaukee), Doc. 708, *Galland-Henning Mfg. Co.* v. *Logemann Bros. Co.*

1,937,775, S. P. Neuhausen, Rake, D. C., N. D. Ohio, E. Div., Doc. 19586, *Stampit Corp.* v. *The American Fork & Hoe Co.* Decree on mandate dismissing bill Apr. 13, 1942.

1,945,263, F. C. Doble, Apparatus for testing insulating valves, appeal filed Apr. 13, 1942, C. C. A., 1st Cir., Doc. 3775, *Doble Engineering Co.* v. *Leeds & Northrup Co.*

1,959,264, J. Dugan, Radio direction and position indicating system, filed Feb. 17, 1942, D. C., S. D. N. Y., Doc. 17/280, *J. Dugan* v. *Lear Avia, Inc.*

1,962,264. H. Veit, Hair cutting and thinning shears, D. C., N. D. Ill., E. Div., Doc. 1869, *Jetter & Scheerer Products, Inc., et al.* v. *Chicago Hair Goods Co.* Consent decree holding patent valid and infringed, injunction Jan. 12, 1942.

1,965,082, R. McKee, Crackers and method of making same, filed Apr. 13, 1942, D. C., S. D. N. Y., Doc. 18/20, *Devonsheer Melba Corp.* v. *King Kone Corp.*

1,970,326, A. L. Larson, Brick wall and waterproofing means therefor; 2,088,754, 2,023,425, same, Waterproofing of masonry walls, D. C., E. D. Pa., Doc. 634, *A. L. Larson et al.* v. *Graham Construction Co. et al.* Dismissed Mar. 2, 1942.

1,977,521, G. S. Meikle, Apparatus for producing combustion, D. C., E. D. Mich. (Detroit), Doc. 6653, *G. S. Meikle* v. *Timken Silent Automatic Co.* Judgment dismissing bill (notice Apr. 15, 1942).

1,979,490, W. E. Robertson, Insulating means, filed Mar. 20, 1942, D. C., N. D. Ohio, E. Div., Doc. 21191, *J. C. Johnston* v. *The Stillwater Clay Products Co.*

2,007,078, L. L. Crabtree, Pile fabric, D. C., S. D. N. Y., Doc. 5/303, *The Saltex Looms, Inc., et al.* v. *Collins & Aikmen Corp.* Decree (notice Mar. 25, 1942).

2,007,253, W. A. MacDonald, Wave signaling system, D. C., N. D. Ill., E. Div., Doc. 15204, *Hazeltine Corp.* v. *Zenith Radio Corp.* By stipulation bill and counterclaim dismissed without prejudice Jan. 15, 1942.

2,023,425. (See 1,970,326.) 2,069,447. (See 1,781,394.)

2,088,754. (See 1,970,326.)

Adjudicated Patents

(D. C. N. Y.) Pennington patent, No. 2,009,677, for shock absorber for motor vehicles, claims 27, 28, and 37 *Held* valid and not infringed. *Pennington Engineering Co.* v. *Houde Engineering Corporation*, 43 F. Supp. 698.

(D. C. Mich.) Dirkes patent, No. 2,146,424, for feeding device for lubricants or the like, *Held* invalid. *Trabon Engineering Corporation* v. *Dirkes*, 43 F. Supp. 759.

(D. C. Mich.) Hillis reissue patent, No. 21,236, for divisional feeder, *Held* invalid. *Id.*

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 2,243,614, Julius Vogel, Apparatus and method for treating tubular members, decided May 4, 1942, claims 1, 2, 5, 11, 12, 21, 22, 23, 24, and 25.

Pat. 2,248,267, D. H. Bacon, Voltage limiter, decided May 1, 1942, claims 1, 5, 7, 8, and 11.

Pat. 2,212,100, C. D. Keaton, Coffee maker, decided March 20, 1942, claim 1.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 2, 1942

[VOL. 539. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS I

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 446,102. L. A. DREYFUS COMPANY, Rosebank, Staten Island, N. Y. Filed Aug. 9, 1941.

PALOJA

FOR CHEWING GUM BASE NOT INCLUDING CHICLE.
Claims use since 1910.

Ser. No. 451,581. SPRINGFIELD COAL CO., Springfield, Mass. Filed Mar. 12, 1942.



FOR COAL AND COKE.
Claims use since Sept. 1, 1929.

Ser. No. 451,828. THE WISTAR INSTITUTE OF ANATOMY AND BIOLOGY, Philadelphia, Pa. Filed Mar. 21, 1942.

WISTARAT

FOR RATS.
Claims use since Feb. 11, 1942.

Ser. No. 451,837. CONSOLIDATION COAL COMPANY, New York, N. Y. Filed Mar. 23, 1942.



FOR COAL.
Claims use since Mar. 6, 1942.

Ser. No. 451,896. INTERNATIONAL TELEPHONE AND RADIO MANUFACTURING CORPORATION, New York, N. Y. Filed Mar. 25, 1942.

Inlclin

FOR MONOMERIC STYRENE.
Claims use since Mar. 11, 1942.

Ser. No. 451,899. LILLYBROOK COAL COMPANY, Beckley, W. Va. Filed Mar. 25, 1942.



The phrase "Beckley Seam" is disclaimed except as shown.
FOR COAL.
Claims use since Mar. 13, 1942.

Ser. No. 451,996. AMERICAN TAR COMPANY, Seattle and Spokane, Wash. Filed Mar. 30, 1942.

ATCO

FOR CRUDE COAL TAR, MARINE PITCH, COAL TAR PITCH, AND ASPHALT.
Claims use since Mar. 1, 1922.

CLASS 2

RECEPTACLES

Ser. No. 423,758. THE GARDNER-RICHARDSON COMPANY, Middletown, Ohio. Filed Sept. 20, 1939.

GARDNER-RICHARDSON
FROM PULP TO FINISHED PRODUCT
ENGINEERED PRECISION

The words "From Pulp to Finished Product" and "Gardner-Richardson" are disclaimed apart from the mark.
FOR BOXES AND CARTONS MADE OF PAPER MATERIAL.
Claims use since July 27, 1939.

Ser. No. 447,214. THE QUAKER OATS COMPANY, Chicago, Ill. Filed Sept. 20, 1941.

AVENIZED

FOR PAPER BAGS, PAPER AND PAPERBOARD CARTONS SOLD IN TRADE EMPTY.
Claims use since July 1, 1937.

Ser. No. 452,039. THE FOUR CORNERS, Cincinnati, Ohio. Filed Mar. 31, 1942.

Bundles for Home

FOR SHOPPING AND KNITTING BAGS MADE OF HEAVY CLOTH.
Claims use since Mar. 18, 1942.

Ser. No. 452,082. ROSSOTTI LITHOGRAPHING COMPANY, INC., North Bergen, N. J. Filed Apr. 1, 1942.

TRU-VU

No claim is made to the word "Vu" apart from the mark.
FOR CARTONS.
Claims use since Apr. 1, 1938.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 452,254. ROYAL BEAD NOVELTY CO. INC., New York, N. Y. Filed Apr. 9, 1942.

Plasti-Square

No claim is made to the word "Square" apart from the mark.
FOR HANDBAGS AND PURSES.
Claims use since Mar. 19, 1942.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 450,144. PIONEER SALT COMPANY, Philadelphia, Pa. Filed Jan. 10, 1942.

PIONITE

FOR POWDER CLEANSER OR DETERGENT.
Claims use since July 31, 1941.

Ser. No. 451,261. COMPANHIA GESSY INDUSTRIAL, Sao Paulo, Brazil. Filed Feb. 27, 1942.



FOR SOAPS AND SCENTED SOAPS IN THE FORM OF PASTE, CAKES, BARS, STICKS, POWDER, LIQUID, FLAKES OR SCALES, AND CREAM.
Claims use since July 1, 1935.

Ser. No. 451,681. KELITE PRODUCTS, INC., Los Angeles, Calif. Filed Mar. 17, 1942.

KELITE

FOR CLEANING POWDERS, CLEANING PASTE, CLEANING FLUIDS, AND SOAPS.
Claims use since Feb. 10, 1937.

Ser. No. 451,771. J. A. MAXWELL, Drew, Miss. Filed Mar. 20, 1942.

M·M

FOR DENTAL PLATE CLEANSER.
Claims use since Feb. 26, 1942.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 440,140. C. W. ABBOTT & COMPANY, Baltimore, Md. Filed Jan. 31, 1941.



Applicant is the owner of trade-mark registration No. 141,822 for the name "Abbotts" and the representation of the picture. No claim is made for the word "Bitters," apart from the mark. The picture is fanciful.
FOR AROMATIC BITTERS FOR MEDICINAL PURPOSES.
Claims use since 1899.

Ser. No. 441,869. HILL-LUTHY CO., Peoria, Ill. Filed Mar. 24, 1941.

SANI-SOFT

The term "Soft" is disclaimed apart from the mark.
FOR WATER SOFTENER CHEMICALS.
Claims use since Feb. 26, 1941.

Ser. No. 445,245. HATTIE SHIELDS, Cleveland, Ohio. Filed July 10, 1941.



FOR PETROLEUM JELLY COMPOUND HAIR RESTORER.
Claims use since Sept. 25, 1935.

Ser. No. 449,285. NORMAN VICTOR LUNDIE, Southport, England. Filed Dec. 8, 1941.



No claim is made to the term "Silktona" apart from the mark.
FOR COSMETICS—NAMELY, COLORING PREPARATIONS FOR APPLICATION TO THE SKIN.
Claims use since Jan. 1, 1941.

Ser. No. 450,263. FRANCIS H. LEGGETT & COMPANY, New York, N. Y. Filed Jan. 16, 1942.

Premier

FOR BORAX.
Claims use since Jan. 1, 1905.

Ser. No. 450,665. J. HOWARD SMITH, New York, N. Y. Filed Feb. 2, 1942.

QUALADEE

FOR FISH OIL USED AS AN INGREDIENT IN FEED FOR POULTRY AND OTHER DOMESTIC ANIMALS.
Claims use since May 15, 1941.

Ser. No. 451,511. BORIS TH. SOKOLOFF, Bloomfield, N. J. Filed Mar. 9, 1942.

Vi-Chocolin

FOR VITAMIN PREPARATIONS CONTAINING VITAMINS A, D, B_1, B_2, AND C.
Claims use since Jan. 7, 1942.

Ser. No. 451,842. INNIS, SPEIDEN & CO., New York and Niagara Falls, N. Y. Filed Mar. 23, 1942.

Ferri-Cl$_3$or

No claim is made to the chemical designation $FeCl_3$, apart from the mark.
FOR FERRIC CHLORIDE.
Claims use since Mar. 16, 1942.

Ser. No. 451,942. THE RELBE COMPANY, Miami, Fla. Filed Mar. 27, 1942.

RELBE

The word "Relbe" is lined for red.
FOR MEDICATED POWDER USED FOR PRICKLY HEAT, SHAVING IRRITATION, DIAPER RASH, ATHLETE'S FOOT, CHAFING, AND ALL MINOR SKIN IRRITATIONS.
Claims use since July 15, 1937.

Ser. No. 451,968. MAX FACTOR & CO., Los Angeles, Calif. Filed Mar. 28, 1942.



The words "A Gift From Hollywood" are disclaimed apart from the mark. The drawing is lined for red and gold.
FOR COSMETICS, PERFUMES, THEATRICAL MAKE-UP, AND SIMILAR PREPARATIONS—NAMELY, FACE POWDER, ROUGE, LIPSTICKS, SKIN CREAMS, CLEANSING CREAMS, SKIN FRESHENERS, SKIN LOTIONS, SHAMPOOS, PERFUMES, TOILET WATER, EYEBROW PENCILS, EYELASH MAKE-UP, MASCARA, ASTRINGENT, A COSMETIC IN THE NATURE OF A SOLIDIFIED CREAM USED FOR A MAKE-UP BASE, EAU DE COLOGNE, HAIR OIL, AND HAIR TONICS.
Claims use since June 25, 1940.

Ser. No. 451,977. ERNEST T. JANZ, Chicago, Ill. Filed Mar. 28, 1942.

AMOPINE

FOR COUGH SYRUP TO ALLEVIATE COUGHS, AND LIKE BRONCHIAL AILMENTS.
Claims use since Oct. 1, 1931.

Ser. No. 451,993. ABBOTT LABORATORIES, North Chicago, Ill. Filed Mar. 30, 1942.

BECLYSYL

FOR MEDICINAL PREPARATION IN LIQUID FORM FOR REPLACING BODY FLUIDS AND SUPPLYING NECESSARY VITAMINS BY VENOCLYSIS.
Claims use since Mar. 24, 1942.

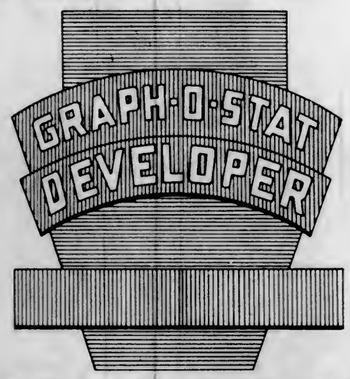
Ser. No. 452,094. THE A. S. BOYLE COMPANY, Jersey City, N. J. Filed Apr. 2, 1942.



HARMONY

FOR VITAMIN PREPARATIONS.
Claims use since Feb. 10, 1942.

Ser. No. 452,102. PHILIP A. HUNT COMPANY, Brooklyn, N. Y. Filed Apr. 2, 1942.



The drawing is lined for red and blue. No claim is made to the word "Developer" apart from the mark.
FOR CHEMICALS FOR DEVELOPING PHOTOGRAPHIC PAPERS.
Claims use since Jan. 2, 1942.

Ser. No. 452,106. NATURAL PRODUCTS CORPORATION, Los Angeles, Calif. Filed Apr. 2, 1942.

KLOR

FOR VITAMIN-MINERAL FOOD SUPPLEMENT TABLET.
Claims use since Jan. 15, 1942.

Ser. No. 452,118. JOHN WYETH & BROTHER, INCORPORATED, Philadelphia, Pa. Filed Apr. 2, 1942.

PHOSPHALJEL

FOR MEDICINAL COMPOUND FOR TREATMENT OF THE GASTRO-INTESTINAL TRACT.
Claims use since Mar. 17, 1942.

Ser. No. 452,160. ROBERT H. CLARK, doing business as Tipstik Cosmetics, Los Angeles, Calif. Filed Apr. 6, 1942.

RIVAL RED

FOR COSMETICS—NAMELY, LIPSTICKS.
Claims use since Mar. 12, 1942.

Ser. No. 452,178. FREDERICK M. TURNBULL, Los Angeles, Calif. Filed Apr. 6, 1942.

VASOSULFA

FOR SULFATHIAZOLE COMPOUND.
Claims use since Mar. 31, 1942.

Ser. No. 452,229. S. M. A. CORPORATION, Chicago, Ill. Filed Apr. 8, 1942.

RIBRANEX

FOR VITAMIN PREPARATIONS.
Claims use since Mar. 20, 1942.

Ser. No. 452,247. DR. D. JAYNE & SON, INC., Philadelphia, Pa. Filed Apr. 9, 1942.

JAYLAX

FOR MEDICINAL PREPARATIONS INDICATED FOR USE AS LAXATIVES, PURGATIVES, AND CATHARTICS IN AND FOR THE TREATMENT OF CONSTIPATION.
Claims use since Apr. 30, 1929.

Ser. No. 452,317. SCOTT PRODUCTS COMPANY, doing business as United Vitamin Co., Chicago, Ill. Filed Apr. 13, 1942.

GRA-NO-MOR

FOR CONCENTRATED VITAMIN PRODUCT IN TABLET FORM.
Claims use since Mar. 31, 1942.

Ser. No. 452,344. JACOB BENDIX, New York, N. Y. Filed Apr. 15, 1942.

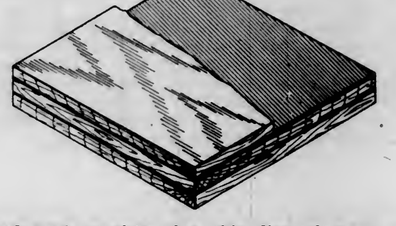
BENDIXIZED

FOR COMPOUNDS USED IN THE TREATMENT OF TEXTILE FIBRES AND TEXTILE FABRICS AND ARTICLES MADE THEREFROM, TO ACCOMPLISH THE DESIZING, DEGUMMING, DULLING, SOFTENING, STRENGTHENING AND FINISHING THE SAME, EITHER IN THE RAW, BOILED-OFF OR DYED CONDITIONS, ALSO FOR USE AS A TYPE OF FINISH FOR TEXTILE FIBERS AND TEXTILE FABRICS AND ARTICLES MADE THEREFROM EITHER IN THE RAW, BOILED-OFF OR DYED CONDITIONS, AND ALSO AS THE RESULTS PRODUCED BY THE COMPOUNDS.
Claims use since February, 1941.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 437,622. HARBOR PLYWOOD CORPORATION, Hoquiam, Wash. Filed Nov. 6, 1940.



Trade-mark consists of a thin line of green color arbitrarily applied along the glue lines appearing at the edge of the plywood. No claim is made to the representation of the goods per se.
FOR PLYWOOD.
Claims use since Oct. 8, 1940.

Ser. No. 449,767. THE DENVER SEWER PIPE AND CLAY COMPANY, Denver, Colo. Filed Dec. 26, 1941.

CERTI-FIRED
CLAY PRODUCTS

No claim is made to the words "Fired Clay Products" apart from the mark.
FOR NON-METALLIC SEWER PIPE, BUILDING BRICKS, FIRE BRICKS, FLUE LINING, AND HOLLOW TILE.
Claims use since Dec. 6, 1941.

Ser. No. 450,439. AMERICAN TAR COMPANY, Seattle and Spokane, Wash. Filed Jan. 24, 1942.



FOR REFINED COAL TAR, COLD DIP TAR, TAR AND CREOSOTE, BITUMEN PRIMER, COAL TAR PITCH, LIQUID FIBRE SEAL, PLASTIC FIBRE SEAL, CARBON ELASTIC ROOF COATING, ASPHALT FIBRE COATING, ASPHALT FIBRE CEMENT, SIDING ASPHALT FIBRE CEMENT, ASPHALT ROOF COATING, LIQUID ROOFING COMPOUND, LIQUID ASBESTOS ROOFING COMPOUND, ASPHALT LAP CEMENT, ROOF COATING PRIMER, KONCRETE KOAT (A WATERPROOFING COAT FOR APPLICATION TO CONCRETE), CONCRETE PRIMER, COAL TAR ROOFING FELT, AND TARRED SHEATHING.
Claims use since Mar. 1, 1922.

Ser. No. 450,541. KEASBEY & MATTISON COMPANY, Ambler, Pa. Filed Jan. 28, 1942.

K & M "CENTURY" LAPSTRAKE SIDING

No claim is made to the words "Lapstrake" and "Siding" apart from the mark.
FOR FIRE-RESISTANT BUILDING BOARDS, INSULATING AND SOUND-DEADENING BOARDS, COMPOSITION BOARDS, AND PARTICULARLY ADAPTED FOR USE AS A BUILDING MATERIAL, PARTITIONS, STEAMSHIP INTERIOR CONSTRUCTION MATERIALS AND FOR OTHER BUILDING AND CONSTRUCTION PURPOSES.
Claims use since Dec. 17, 1941.

Ser. No. 450,611. BASIC REFRACTORIES, INC., Cleveland, Ohio. Filed Jan. 31, 1942.

MAGNECHROME

FOR REFRACTORY FURNACE LINING PREPARATIONS, BRICKS, AND OTHER SHAPES.
Claims use since May 12, 1939.

Ser. No. 450,612. BASIC REFRACTORIES, INC., Cleveland, Ohio. Filed Jan. 31, 1942.

MAGNECON

FOR REFRACTORY FURNACE LINING PREPARATIONS, BRICKS, AND OTHER SHAPES.
Claims use since Sept. 18, 1940.

Ser. No. 451,139. MINNIE GREENSTEIN, doing business as A. S. G. Pipe Lining Co., New York, N. Y. Filed Feb. 21, 1942.

=Perm-O-Line=

FOR LINING CEMENT FOR PIPES AND FITTINGS.
Claims use since Feb. 5, 1942.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 450,595. I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed Jan. 30, 1942.

PERMASHEEN

FOR SHOWER CURTAINS AND MATCHING SHOWER CURTAINS AND WINDOW DRAPES SOLD TOGETHER AS A UNIT.
Claims use since Dec. 1, 1941.

Ser. No. 452,176. SUGAR BEET PRODUCTS COMPANY, Saginaw, Mich. Filed Apr. 6, 1942.

Mercury

FOR LAVATORIES AND WASH FOUNTAINS.
Claims use since Feb. 10, 1942.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 449,236. THE MIDVALE COMPANY, Philadelphia, Pa. Filed Dec. 6, 1941.

MIDVALE DIAMOND Non-Deforming BRAND STEEL

Applicant is the owner of Reg. #286,622 covering the word "Midvale" effected under the 10-year proviso of the 1905 act. The words "Brand Steel" and "Non-Deforming" are disclaimed apart from the mark.
FOR ALLOY STEEL.
Claims use since Nov. 25, 1929.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 447,857. WILSON-IMPERIAL COMPANY, Newark, N. J. Filed Oct. 16, 1941.

IMPERIAL

WIL-BOND

The word "Wil-Bond" is disclaimed apart from the mark as shown.
FOR CLEANING, DULLING, AND BONDING LIQUID FOR PREPARING OLD PAINT AND VARNISH SURFACE FOR REFINISHING.
Claims use since June 3, 1941.

Ser. No. 450,832. M. EWING FOX CO., INC., New York, N. Y. Filed Feb. 7, 1942.

HURRICOTE

FOR PAINTS IN PASTE FORM.
Claims use since May 13, 1941.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 451,098. WAITT & BOND, INC., Newark, N. J. Filed Feb. 19, 1942.
The portrait is that of Claire McQuillen. The drawing is lined for red and blue.



FOR CIGARS.
Claims use since Mar. 17, 1941.

Ser. No. 451,858. A. SENSENBRENNER SONS, Los Angeles, Calif. Filed Mar. 23, 1942. Under section 5b of the act of 1905, as amended in 1920.

SANTA FE

FOR SMOKING AND CHEWING TOBACCO.
Claims use since Dec. 1, 1940.

Ser. No. 452,222. LEIGHTON TOBACCO CO., INC., New York, N. Y. Filed Apr. 8, 1942.

Valor

FOR SMOKING TOBACCO, CIGARS, AND CIGARETTES.
Claims use since Apr. 4, 1942.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 451,010. INTERNATIONAL TELEPHONE AND RADIO MANUFACTURING CORPORATION, New York, N. Y. Filed Feb. 16, 1942.

PULSOTRON

FOR ELECTRON DISCHARGE DEVICE OF THE HIGH VACUUM TRIODE TYPE ADAPTED FOR OPERATION AS AMPLIFIER MODULATOR OR OSCILLATOR AT SHORT WAVES, ULTRA-SHORT WAVES, AND MICRO WAVES.
Claims use since Dec. 15, 1941.

Ser. No. 451,402. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa. Filed Mar. 4, 1942.

SIMPAC

FOR ELECTRICAL POWER UNITS INCLUDING GENERATOR WITH REGULATOR, EXCITER, AND CONTROL THEREFOR.
Claims use since July 1, 1941.

Ser. No. 451,532. FLASHLIGHT COMPANY OF AMERICA, Jersey City, N. J. Filed Mar. 10, 1942.

REX

FOR FLASHLIGHTS AND DRY CELL BATTERIES.
Claims use since Mar. 17, 1941.

Ser. No. 451,598. THE HOBART MANUFACTURING COMPANY, Troy, Ohio. Filed Mar. 13, 1942. Under 10-year proviso.

Hobart

Applicant is owner of T. M. Reg. No. 201,898 effected under the 10-year proviso.

FOR ELECTRIC COFFEE MILLS, ELECTRIC COFFEE-REFINING MILLS, ELECTRIC MEAT AND FOOD CHOPPERS, COMBINED ELECTRIC COFFEE MILLS AND ELECTRIC MEAT CHOPPERS, ELECTRIC BONE GRINDERS, ELECTRIC TOOL GRINDERS, ELECTRIC BREAD CRUMBERS, ELECTRIC FOOD MIXERS, ELECTRIC CANDY MACHINES, ELECTRIC FOOD CUTTERS, ELECTRIC POTATO PEELERS, ELECTRIC MEAT AND FOOD SLICERS, ELECTRIC DISHWASHERS, ELECTRIC INDUSTRIAL WASHERS FOR MACHINE PARTS AND THE LIKE, ELECTRIC MACHINES FOR WHIPPING CREAM AND FOR AERATING LIQUIDS, ELECTRIC FLOUR SIFTERS AND ELECTRICALLY OPERATED DEVICES UTILIZING STERILIZING LIGHT RAYS FOR STERILIZING ARTICLES; ATTACHMENTS FOR SUCH MACHINES FOR REGULATING THE FEEDING OF FOOD MATERIALS THERETO, FOR HEATING OR COOLING THE CONTENTS THEREOF, FOR GRINDING COFFEE AND SPICES, FOR CHOPPING MEAT, FOR GRINDING BONES, FOR SHARPENING TOOLS, FOR EXTRACTING JUICES FROM FRUITS AND VEGETABLES, FOR SLICING, SHREDDING AND GRATING FRUITS AND VEGETABLES, FOR CHIPPING ICE, FOR SIEVING AND STRAINING FRUITS AND VEGETABLES, FOR CRUMBING BREAD, FOR OPERATING ICE-CREAM FREEZERS, FOR PULLING CANDY AND FOR AERATING LIQUIDS.

Claims use since November, 1889.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 449,838. THE HOBART MANUFACTURING COMPANY, Troy, Ohio. Filed Dec. 29, 1941.

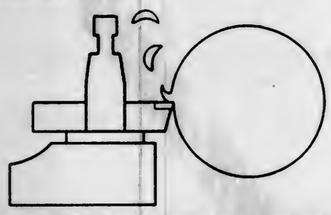
Hobart

Applicant is owner of T. M. Reg. No. 201,898 effected under the 10-year proviso.

FOR MACHINES FOR GRINDING COFFEE, PEANUTS, SPICES, AND THE LIKE, MACHINES FOR GRINDING BONES, MACHINES FOR CHOPPING MEAT, MIXING MACHINES, CANDY MAKING MACHINES, MACHINES FOR PEELING POTATOES AND VEGETABLES, PEEL TRAPS FOR SAID PEELING MACHINES, SLICING MACHINES, MACHINES FOR EXTRACTING JUICES FROM FRUITS AND VEGETABLES, MACHINES FOR SHREDDING AND GRATING FRUITS AND VEGETABLES, MACHINES FOR SIEVING AND STRAINING FRUITS AND VEGETABLES, MACHINES FOR WASHING DISHES AND INDUSTRIAL WASHERS FOR MACHINE PARTS AND THE LIKE, MACHINES FOR WHIPPING CREAM AND FOR AERATING FOOD PRODUCTS, LIQUID DISPERSIONS, OR SUSPENSIONS, MACHINES FOR SIFTING FLOUR, MACHINES FOR CHIPPING ICE, MACHINES FOR CRUMBING BREAD, MACHINES FOR SHARPENING KNIVES, AND MACHINES FOR BUFFING AND POLISHING.

Claims use since Aug. 12, 1929.

Ser. No. 449,967. MCKENNA METALS COMPANY, Latrobe, Pa. Filed Jan. 2, 1942.



FOR WEAR-RESISTING PIECES CONSISTING OF CEMENTED HARD METALLIC COMPOSITIONS—NAMELY, INSERTS TO BE USED IN DIES AND TOOLS FOR WORKING, CUTTING OR SHAPING METAL AND OTHER MATERIALS, IN LATHE-CENTERS, IN BEARING-SURFACE AND WEARING-SURFACE PARTS, IN PUMP-VALVES AND PARTS THEREOF, AND FOR DIES, CUTTING TOOLS, LATHE-CENTERS, BEARING-SURFACE AND WEARING-SURFACE PARTS, PUMP-VALVES, WHICH EMBODY SUCH WEAR-RESISTING PIECES.

Claims use since June, 1938.

Ser. No. 450,340. NATIONAL POSTAL METER COMPANY, INC., Rochester, N. Y. Filed Jan. 20, 1942.

NATIONAL POSTAL METER COMPANY, INC. NPM

FOR MAIL STAMPING AND SEALING MACHINE.

Claims use since June 13, 1941.

Ser. No. 450,598. P. R. MALLORY & CO., INC., Indianapolis, Ind. Filed Jan. 30, 1942.

MALLOSIL

FOR MACHINERY PARTS—NAMELY, BEARINGS FOR INTERNAL COMBUSTION ENGINES, SILVER PLATED WEAR-RECEIVING AND BEARING PARTS FOR MACHINES, SILVER PLATED BEARINGS FOR ENGINES AND MACHINERY.

Claims use since Jan. 3, 1942.

Ser. No. 451,839. GRAY MILLS CO., INC., Chicago, Ill. Filed Mar. 23, 1942.

FLO-BAC

FOR CIRCULATING APPARATUS FOR A COOLING MEDIUM USED IN COOLING MACHINE TOOLS.

Claims use since July, 1941.

Ser. No. 451,864. AMERICAN SAW & MFG. COMPANY, Springfield, Mass. Filed Mar. 24, 1942.

Dismaster

FOR BAND SAW BLADES.

Claims use since Jan. 10, 1942.

Ser. No. 452,241. THE DEMING COMPANY, Salem, Ohio. Filed Apr. 9, 1942.

MARVELETTE

FOR WATER PUMPING SYSTEMS COMPRISING A TANK, A PUMP, A MOTOR FOR THE PUMP, AUTOMATIC CONTROLLING DEVICE, ALL ASSOCIATED AS A UNIT.

Claims use since April, 1941.

Ser. No. 452,301. AMERICAN CHAIN & CABLE COMPANY, INC., Bridgeport, Conn. Filed Apr. 13, 1942.

CUTALATOR

FOR ABRASIVE CUTTING MACHINE, EXCLUSIVE OF ABRASIVE ELEMENTS.

Claims use since Mar. 23, 1942.

Ser. No. 452,376. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass. Filed Apr. 16, 1942.

FIGHTER

FOR SAFETY RAZOR BLADES.

Claims use since Apr. 9, 1942.

Ser. No. 452,377. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass. Filed Apr. 16, 1942.

BOXER

FOR SAFETY RAZOR BLADES.

Claims use since Apr. 9, 1942.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 451,479. AMERICAN MACHINE AND METALS, INC., New York, N. Y. Filed Mar. 9, 1942.

Analytical

FOR LAUNDRY MACHINES FOR WASHING WITH WATER OR SOLVENTS TOGETHER WITH REGULATING AND AUTOMATIC CONTROL DEVICES FOR USE THEREWITH; ALSO CENTRIFUGAL EXTRACTORS FOR REMOVING THE SURPLUS LIQUID.

Claims use since Dec. 3, 1941.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 447,908. GENERAL ELECTRIC X-RAY CORPORATION, Chicago, Ill. Filed Oct. 18, 1941.

Fluoroline

FOR ILLUMINATING APPARATUS—NAMELY, FILM VIEWERS.

Claims use since Dec. 1, 1939.

Ser. No. 449,171. EUGENE DIETZGEN CO., Chicago, Ill. Filed Dec. 4, 1941.

COMMANDER

FOR DRAWING INSTRUMENTS AND DRAFTSMEN'S SUPPLIES—NAMELY, DRAWING AND RULING PENS, BOW PENS AND PENCILS, DRAWING COMPASSES, DIVIDERS, CALCULATORS, MEASURING SCALES, PROTRACTORS, RULING GUIDES, PLANIMETERS, INTEGRATORS, AND PANTOGRAPHS.

Claims use since July 1, 1940.

Ser. No. 449,172. EUGENE DIETZGEN CO., Chicago, Ill. Filed Dec. 4, 1941.

NATIONAL

FOR DRAWING INSTRUMENTS AND DRAFTSMEN'S SUPPLIES—NAMELY, DRAWING AND RULING PENS, BOW PENS AND PENCILS, DRAWING COMPASSES, DIVIDERS, CALCULATORS, MEASURING SCALES, PROTRACTORS, RULING GUIDES, PLANIMETERS, INTEGRATORS, AND PANTOGRAPHS.

Claims use since June 1, 1939.

Ser. No. 449,340. FISHER SCIENTIFIC COMPANY, Pittsburgh, Pa. Filed Dec. 10, 1941.

Speedyvap

FOR LABORATORY BEAKER COVERS.

Claims use since Jan. 1, 1936.

Ser. No. 449,955. EUGENE DIETZGEN CO., Chicago, Ill. Filed Jan. 2, 1942.

ENSIGN

FOR DRAWING INSTRUMENTS AND DRAFTSMEN'S SUPPLIES—NAMELY, DRAWING AND RULING PENS, BOW PENS AND PENCILS, DRAWING COMPASSES, DIVIDERS, CALCULATORS, MEASURING SCALES, PROTRACTORS, RULING GUIDES, PLANIMETERS, INTEGRATORS, AND PANTOGRAPHS.

Claims use since June 1, 1940.

Ser. No. 449,956. EUGENE DIETZGEN CO., Chicago, Ill. Filed Jan. 2, 1942.

ADMIRAL

FOR DRAWING INSTRUMENTS AND DRAFTSMEN'S SUPPLIES—NAMELY, DRAWING AND RULING PENS, BOW PENS AND PENCILS, DRAWING COMPASSES, DIVIDERS, CALCULATORS, MEASURING SCALES, PROTRACTORS, RULING GUIDES, PLANIMETERS, INTEGRATORS, AND PANTOGRAPHS.

Claims use since June 1, 1940.

Ser. No. 450,143. JOHN PAULAS, Chatham Township, N. J., assignor to Photo Reproducing Equipment Company, Chatham Township, Morris County, N. J. Filed Jan. 10, 1942.

TRUCOPYPHOTE

FOR PHOTOGRAPHIC REPRODUCTION APPARATUS FOR MAKING PHOTOGRAPHIC PRINTS OF OBJECTS, PARTS THEREOF, AND SUPPLIES THEREFOR—NAMELY, SENSITIZED PAPERS, SENSITIZED TRACING CLOTHS, DEVELOPING TRAYS, DRYERS, DEVELOPERS, AND FIXERS.
Claims use since Jan. 2, 1942.

Ser. No. 451,559. HOWARD G. UNDERWOOD, Borger, Tex. Filed Mar. 11, 1942.

"DUST to DUST"

FOR SERIES OF MOVING PICTURE FILMS.
Claims use since Apr. 1, 1940.

Ser. No. 451,925. BENDIX AVIATION CORPORATION, Bendix, N. J. Filed Mar. 27, 1942.

MAGNESYN

FOR EARTH INDUCTOR COMPASSES, REMOTE INDICATING MAGNETIC COMPASSES, AND OTHER REMOTE INDICATING INSTRUMENTS OF THE TELEMETRIC TYPE BY MEANS OF WHICH A FUNCTION IS MEASURED AT ONE POINT AND TRANSMITTED TO AND INDICATED AT ANOTHER AND REMOTE POINT—NAMELY, REMOTE INDICATING ACCELEROMETERS, AIRSPEED INDICATORS, ALTIMETERS, RATE OF CLIMB INDICATORS, COMPASSES, DIRECTIONAL GYROS, DRIFT INDICATORS, FLOWMETERS, FUEL LEVEL GAUGES, FUEL PRESSURE GAUGES, GYROSCOPIC ARTIFICIAL HORIZON INDICATORS, LANDING WHEEL AND FLAP POSITION INDICATORS, MANIFOLD PRESSURE GAUGES, OIL PRESSURE GAUGES, SUCTION GAUGES, TACHOMETERS, AND TURN OR RATE OF TURN INDICATORS.
Claims use since Jan. 15, 1941.

Ser. No. 452,215. ROBERT N. DENNIS, Brooklyn, N. Y. Filed Apr. 8, 1942.

DA-SCOPE

FOR VIEWING DEVICE FOR PHOTOGRAPHIC AND OTHER TRANSPARENCIES.
Claims use since Feb. 24, 1942.

Ser. No. 452,245. WILLIAM H. GLAZER, Philadelphia, Pa. Filed Apr. 9, 1942.

PARIZONE

FOR OPHTHALMIC LENSES AND FRAMES AND INSTRUMENTS FOR CALCULATING THE PROPER ZONES OF VISION FOR LENSES.
Claims use since Mar. 2, 1942.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 451,437. EMPIRE CRAFTS CORPORATION, Newark, N. Y. Filed Mar. 6, 1942.

ROYAL CREST

FOR STERLING SILVER FLATWARE.
Claims use since Nov. 19, 1941.

Ser. No. 452,190. ANN L. EDISON, New York, N. Y. Filed Apr. 7, 1942.

ANIMALLIES

FOR SCARFPINS, WATCH CHAINS, CUFF LINKS; JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES; PLATTERS AND PLATES MADE OF PRECIOUS METAL, SHEFFIELD WARE; VASES, BOWLS, PLATTERS, AND PLAQUES OF ENAMEL WARE ORNAMENTED WITH PRECIOUS METAL, NOT INCLUDING WARE MADE OF ENAMELED STEEL; TABLE KNIVES, FORKS, AND SPOONS OF PRECIOUS METALS FOR HOUSEHOLD USE; MATCH BOXES OF PRECIOUS METALS, CIGAR AND CIGARETTE HOLDERS OF PRECIOUS METALS, CIGAR AND CIGARETTE CASES OF PRECIOUS METALS, HUMIDORS AND ASH TRAYS OF PRECIOUS METALS, CANDLESTICKS AND CANDELABRA OF PRECIOUS METALS, INKSTANDS OF PRECIOUS METALS, PEN POINTS OF PRECIOUS METALS, PENHOLDERS OF PRECIOUS METALS, DESK SETS OF PRECIOUS METALS, BOOKMARKS OF PRECIOUS METALS, LETTER OPENERS OF PRECIOUS METALS, PAPER WEIGHTS AND PAPER CUTTERS OF PRECIOUS METALS, FOUNTAIN PENS AND PENCILS OF PRECIOUS METALS, COMPACTS OF PRECIOUS METALS.
Claims use since Apr. 1, 1942.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 450,032. STANLEY HOME PRODUCTS, INC., Westfield, Mass. Filed Jan. 6, 1942.

E-Z

FOR BROOMS.
Claims use since April, 1936.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 449,663. BEGA BROTHERS PRODUCTS CORP., New York, N. Y. Filed Dec. 22, 1941.



FOR SEWING MACHINE CABINETS SOLD EMPTY, AND BENCHES.
Claims use since Mar. 27, 1941.

Ser. No. 451,868. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Mar. 24, 1942.

SOFTAIR

FOR CUSHIONS, PILLOWS, MATTRESSES, CHAIR SEATS, AND ARM REST PADS.
Claims use since Feb. 11, 1942.

Ser. No. 451,980. MIDWEST FIBRE COMPANY, doing business as Midwest Furniture Company, Sheboygan, Wis. Filed Mar. 28, 1942.

Restin-Eez

FOR ROCKING CHAIRS.
Claims use since July, 1940.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 441,471. INSTO-GAS CORPORATION, Detroit, Mich. Filed Mar. 12, 1941.

Insto-Gas

The word "Gas" is disclaimed apart from the mark.
FOR GAS TORCHES AND PLUMBERS' FURNACES.
Claims use since Dec. 12, 1934.

Ser. No. 443,062. WESTERN STOVE CO. INC., Culver City, Calif. Filed Apr. 28, 1941.

WESTERN Holly

The word "Western" is disclaimed apart from the mark.
FOR GAS AND ELECTRIC SPACE HEATERS, BOTH PORTABLE AND BUILT IN; GAS AND ELECTRIC RANGES FOR COOKING PURPOSES, AND AIR CONDITIONERS AND EVAPORATIVE COOLERS EMPLOYING ELECTRIC FANS WORKING IN CONJUNCTION WITH EITHER EVAPORATIVE WATER COOLING SYSTEMS OR ELECTRIC REFRIGERATION SYSTEMS.
Claims use since July 16, 1932.

Ser. No. 451,791. AIR REDUCTION SALES COMPANY, New York, N. Y. Filed Mar. 21, 1942.

Airco "45"

FOR GAS CUTTING TORCHES AND TIPS.
Claims use since Feb. 25, 1942.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 449,084. SOUTHERN BELTING COMPANY, Atlanta, Ga. Filed Dec. 1, 1941.

PIVOTAN

FOR LEATHER BELTING FOR POWER TRANSMISSION, ELEVATING, CONVEYING, AND ANALOGOUS PURPOSES.
Claims use since Sept. 20, 1941.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 444,837. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed June 25, 1941.

FRESHMAN

FOR MUSICAL INSTRUMENTS, INCLUDING CLARINETS, CORNETS, TRUMPETS, TROMBONES, SAXOPHONES, FLUTES, GUITARS, MANDOLINS, UKULELES, AND HARMONICAS.
Claims use since Aug. 9, 1939.

CLASS 37

PAPER AND STATIONERY

Ser. No. 450,197. THE FEDERBUSH COMPANY, INC., New York, N. Y. Filed Jan. 14, 1942.

KEEL Catalog Binder

No claim is made to the words "Catalog Binder" apart from the mark.
FOR LOOSE LEAF BINDERS.
Claims use since Nov. 7, 1941.

Ser. No. 451,700. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio. Filed Mar. 18, 1942.

HYGIEIA

FOR CRAYONS, DUSTLESS CRAYONS, AND BLACKBOARD ERASERS.
Claims use on crayons since about the first day of September, 1905; on dustless crayons, since 1906; and on blackboard erasers, since Feb. 2, 1940.

Ser. No. 451,840. JOHN H. HARLAND COMPANY, Atlanta, Ga. Filed Mar. 23, 1942.

VICTORY CHECK

No claim is made to the word "Check" per se.
FOR BANK CHECKS.
Claims use since Mar. 16, 1942.

Ser. No. 452,125. DITTO, INCORPORATED, Chicago, Ill. Filed Apr. 3, 1942.

ANALYSLIPS

FOR CARDS OR SHEETS OF PAPER ARRANGED IN OVERLAPPING RELATION AT THEIR TOP AND BOTTOM EDGES AND DETACHABLY SECURED TOGETHER AT ONE OF THEIR SIDE EDGES.
Claims use since Sept. 15, 1941.

CLASS 39

CLOTHING

Ser. No. 441,513. TINA LASER, New York, N. Y. Filed Mar. 13, 1941.

BOOZING BONNET

Applicant disclaims the word "Bonnet" except as shown.

FOR HATS AND COATS FOR MEN, WOMEN, AND CHILDREN AND DRESSES FOR WOMEN AND GIRLS.

Claims use since Mar. 3, 1941.

Ser. No. 448,220. CONGRESS SHIRT COMPANY, Boston, Mass. Filed Oct. 29, 1941.

The MAINE GUIDE
STYLED BY Congress

Applicant disclaims the words "Maine" and "Styled by" except as shown.

FOR SPORT JACKETS AND PARKAS FOR USE BY MEN AND YOUNG MEN.

Claims use since May 1, 1941.

Ser. No. 450,933. EVEN-PUL FOUNDATIONS, INC., New York, N. Y. Filed Feb. 13, 1942.

Zanza-Bra

Applicant disclaims the word "Bra" apart from the mark.

FOR BANDEAUX AND BRASSIÈRES.

Claims use since Jan. 6, 1942.

Ser. No. 451,372. JOSEPH ABRAHAMS, doing business as The Jaybra Company, London, England. Filed Mar. 4, 1942.

JAYBRA

FOR MEN'S, WOMEN'S, BOYS', AND GIRLS' WATERPROOF COATS, RAINCOATS, AND OVERCOATS.

Claims use since August, 1934.

Ser. No. 451,508. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Mar. 6, 1942.

FUZZY WUZZY

Applicant disclaims the word "Fuzzy" apart from the mark.

FOR HOUSE SLIPPERS FORMED OF LEATHER, FABRIC, AND COMBINATIONS THEREOF.

Claims use since Nov. 1, 1940.

Ser. No. 451,935. J. MAIMON & SONS, INC., Philadelphia, Pa. Filed Mar. 27, 1942.

Sunshine Valley SLACK

No claim is made to the word "Slack" apart from the mark.

FOR WEARING APPAREL—NAMELY, BOYS' AND MEN'S SLACKS, TROUSERS, SUITS, AND SPORT COATS.

Claims use since Jan. 1, 1942.

Ser. No. 452,065. ANN MANUFACTURING COMPANY, Granite Quarry, N. C. Filed Apr. 1, 1942.

ANN-CO

FOR TEXTILE DIAPERS.

Claims use since Mar. 24, 1942.

Ser. No. 452,117. WILSON BROTHERS, Chicago, Ill. Filed Apr. 2, 1942.

AUSSIE

FOR MEN'S NECKWEAR—NAMELY, TIES.

Claims use since Mar. 20, 1942.

Ser. No. 452,205. STEP MASTER SHOES INCORPORATED, Greenup, Ill. Filed Apr. 7, 1942.

MASTER STEP

FOR SHOES MADE OF LEATHER, FABRIC, RUBBER, OR A COMBINATION OF THESE MATERIALS.

Claims use since Mar. 1, 1942.

Ser. No. 452,227. ROSLYN MFG. CO., New York, N. Y. Filed Apr. 8, 1942.

Lady Eve

FOR LADIES' AND CHILDREN'S DRESSES, HOUSE DRESSES, HOUSE COATS, PAJAMAS, HOOVERS, APRONS, UNIFORMS, NIGHTGOWNS, BATHROBES, LOUNGING ROBES, BEACH ROBES, AND PLAY SUITS.

Claims use since May 2, 1941.

Ser. No. 452,230. TEXAS TANNING & MANUFACTURING COMPANY, Yoakum, Tex. Filed Apr. 8, 1942.

SADDLE CRAFT

FOR MEN'S, WOMEN'S, AND CHILDREN'S ARTICLES OF APPAREL—NAMELY, BELTS, HELMETS, CHAPS, AND PUTTEES, ALL MADE OF LEATHER.

Claims use since Feb. 1, 1942.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 448,289. MARK FLETCHER AND SONS LIMITED, Lancashire, England. Filed Oct. 31, 1941.

MARFLEX

FOR COTTON, WOOL, AND RAYON PIECE GOODS NOT BEING ELASTIC FABRICS.

Claims use since Sept. 16, 1937.

Ser. No. 449,811. SHIRLEY SILK CO., INC., New York, N. Y. Filed Dec. 27, 1941.

SKIPPER

FOR TEXTILE FABRICS IN THE PIECE, OF SILK, COTTON, RAYON, AND COMBINATIONS THEREOF.

Claims use since Dec. 2, 1940.

Ser. No. 450,278. HORNER WOOLEN MILLS COMPANY, Eaton Rapids, Mich. Filed Jan. 17, 1942.

HEALTH-TONE

No claim is made to the word "Health" apart from the mark.

FOR BLANKETS—NAMELY, COTTON AND WOOL BLANKETS, ALL WOOL BLANKETS, KNITTED BLANKETS, AND WOVEN BLANKETS.

Claims use since May 26, 1941.

Ser. No. 450,623. THE DUPLAN CORPORATION, New York, N. Y. Filed Jan. 31, 1942. Under 10-year proviso.

Duplan

FOR SILK, RAYON, AND COTTON FABRICS AND MIXTURES THEREOF, IN THE PIECE.

Claims use since Jan. 1, 1895.

Ser. No. 450,840. PHILIP J. STIEGER, St. Paul, Minn. Filed Feb. 7, 1942.



FOR PIECE GOODS OF COTTON, WOOL, JUTE, CATTLE HAIR, AND SYNTHETIC FIBRES OF RAYON AND VINYON.

Claims use since July 15, 1934.

Ser. No. 451,038. JACQMAR LIMITED, London, England. Filed Feb. 17, 1942.

JACQMAR

FOR SILK AND WOOLLEN GOODS IN THE PIECE.

Claims use since Oct. 30, 1941.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 451,399. UNITED STATES RUBBER COMPANY, New York, N. Y. Filed Mar. 4, 1942.

KOYALON

FOR ARCH SUPPORT PADS OF FOAM RUBBER.

Claims use since Aug. 28, 1941.

Ser. No. 451,400. UNITED STATES RUBBER COMPANY, New York, N. Y. Filed Mar. 4, 1942.

KOYALON

FOR WHEELCHAIR BACK CUSHIONS, WHEELCHAIR SEAT CUSHIONS, KNEE CUSHION SUPPORTS FOR KNEES WHEN LYING IN BED, AND CIRCULAR RINGS FOR SITTING IN BED, MADE OF FOAM RUBBER.

Claims use on wheelchair back cushions, since Aug. 7, 1941; on wheelchair seat cushions, since Aug. 25, 1941; on knee cushions, since Sept. 24, 1941; and on circular rings, since Sept. 24, 1941.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 450,579. CHARLES ADAMS, New Kensington, Pa. Filed Jan. 30, 1942.

SNATCH

FOR NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES, SOLD AS SOFT DRINKS AND SIRUPS AND EXTRACTS FOR MAKING THE SAME.
Claims use since Jan. 16, 1942.

Ser. No. 451,927. CHOCOLATE PRODUCTS COMPANY, Chicago, Ill. Filed Mar. 27, 1942.

VITAMIX

FOR SYRUPS, EXTRACTS, AND CONCENTRATES FOR MAKING CHOCOLATE BEVERAGES.
Claims use since Jan. 5, 1932.

Ser. No. 452,122. CANADA DRY GINGER ALE, INCORPORATED, New York, N. Y. Filed Apr. 3, 1942.

RU-TO

FOR NON-ALCOHOLIC, MALTLESS BEVERAGE.
Claims use since Mar. 16, 1942.

Ser. No. 452,253. ROBERTS, CADWALLADER AND DILTS, INC., Camden, N. J. Filed Apr. 9, 1942.

R-C-DOODLE

FOR FOUNTAIN SYRUP AND A CARBONATED BEVERAGE CONCENTRATE.
Claims use since Mar. 6, 1942.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 437,931. ALTHEA RICKERT WHEELER, doing business as Tradewinds, Winsted, Conn. Filed Nov. 15, 1940.

YESTER-YEAR PRODUCTS

The word "Products" is disclaimed except as shown.
FOR CANNED BEETS, WAX BEANS, GREEN BEANS, AND CARROTS; CANNED BLUEBERRIES, BLACKBERRIES, CHERRIES, AND PEACHES; CANNED STRAWBERRY JAM AND BLACKBERRY JAM; CANNED CHICKEN.
Claims use since Jan. 18, 1940.

Ser. No. 442,665. M. & M. LIMITED, Newark, N. J. Filed Apr. 17, 1941.

m & m's

FOR CANDY.
Claims use since Mar. 3, 1941.

Ser. No. 449,044. FOOD MACHINERY CORPORATION, San Jose, Calif. Filed Nov. 29, 1941. Under the act of February 20, 1905, as amended June 10, 1938.

Hypo-Clor

FOR FRESH CITRUS FRUIT.
Claims use since Nov. 3, 1941.

Ser. No. 449,670. CHERRY GROWERS, INC., Traverse City, Mich. Filed Dec. 22, 1941.

SUCRO

FOR FRUITS PRESERVED IN SUGAR, SOLD IN TINS AND IN BULK FOR USE IN ICE CREAM, FROZEN DESSERTS, TOPPINGS OR OTHER USES.
Claims use since January, 1941.

Ser. No. 450,803. LOOKOUT OIL & REFINING COMPANY, Chattanooga, Tenn. Filed Feb. 6, 1942.

ELEONORA

FOR COTTON SEED OIL (FOR SALADS AND COOKING).
Claims use since Apr. 29, 1941.

Ser. No. 450,846. CONFECTION PRODUCTS CO., Chicago, Ill. Filed Feb. 9, 1942.

JEEP

FOR CANDY.
Claims use since Jan. 5, 1942.

Ser. No. 450,924. LON B. TURK, doing business as Turk & Turk, Oklahoma City, Okla. Filed Feb. 12, 1942.



FOR PREPARED EDIBLE FILLING FOR SANDWICHES AND BUNS, AND SANDWICHES AND BUNS CONTAINING SAID FILLING.
Claims use to prepared edible filling for sandwiches and buns since Dec. 5, 1940; and to sandwiches and buns containing said filling since Jan. 24, 1942.

Ser. No. 451,458. BERCUT-RICHARDS PACKING COMPANY, Sacramento, Calif. Filed Mar. 7, 1942.

NANNELLA

FOR CANNED VEGETABLES.
Claims use since Jan. 16, 1942.

Ser. No. 451,588. BRUCE'S JUICES, INC., Tampa, Fla. Filed Mar. 13, 1942.

BRUCENTRATE

FOR FRUIT AND VEGETABLE EXTRACTS AND JUICES IN CONDENSED FORM, FOR FOOD PURPOSES.
Claims use since Feb. 24, 1942.

Ser. No. 451,829. AMERICAN BREDDO CORPORATION, New York, N. Y. Filed Mar. 23, 1942.

Egddo-stabilizer

No claim is made to the word "Stabilizer" apart from the mark.
FOR DOUGH STABILIZER AND IMPROVER WHICH CONTAINS A SPECIAL BLEND OF FARINACEOUS PRODUCTS ENRICHED WITH A HIGH PERCENTAGE OF EGG YOLK, LECITHIN, ALBUMEN, VEGETABLE FAT AND SYRUP FOR USE IN MAKING ALL KINDS OF BAKED GOODS SUCH AS: PASTRIES, CAKES, COOKIES, DOUGHNUT MIX, EGG BREAD AND ROLLS.
Claims use since Dec. 6, 1941.

Ser. No. 452,028. THE SOUTHERN COTTON OIL COMPANY, New Orleans, La. Filed Mar. 30, 1942.



Applicant disclaims the Star of David apart from the mark.
FOR SOYA BEAN OIL.
Claims use since Jan. 15, 1941.

Ser. No. 452,034. THE U. & J. LENSON CORP., New York, N. Y. Filed Mar. 30, 1942.

RED OAK

FOR COFFEES.
Claims use since Apr. 7, 1941.

Ser. No. 452,076. MALTEX COMPANY, Burlington, Vt. Filed Apr. 1, 1942.

REVEILLE

FOR WHEAT CEREAL FOR FOOD PURPOSES.
Claims use since Mar. 12, 1942.

Ser. No. 452,095. CAMPBELL SOUP COMPANY, Camden, N. J. Filed Apr. 2, 1942.

Leahurst

FOR CANNED PORK AND BEANS.
Claims use since Mar. 4, 1942.

Ser. No. 452,202. CLEMENT PAPPAS, Egg Harbor City, N. J. Filed Apr. 7, 1942.

PRIDE of South Jersey

Applicant disclaims the expression "South Jersey" separately from the mark.
FOR CANNED CRANBERRY SAUCE.
Claims use since Nov. 28, 1932.

Ser. No. 452,268. LIEN BROS. PACKING COMPANY, INC., Stanwood, Wash. Filed Apr. 10, 1942.



The picture is fanciful.
FOR CANNED VEGETABLES.
Claims use since 1934.

Ser. No. 452,269. LIEN BROS. PACKING COMPANY, INC., Stanwood, Wash. Filed Apr. 10, 1942.



The picture is fanciful.
FOR CANNED VEGETABLES.
Claims use since 1934.

Ser. No. 452,270. LIEN BROS. PACKING COMPANY, INC., Stanwood, Wash. Filed Apr. 10, 1942.



The picture is fanciful.
FOR CANNED VEGETABLES.
Claims use since 1934.

Ser. No. 452,326. LOOSE-WILES BISCUIT COMPANY, Long Island City, N. Y. Filed Apr. 14, 1942. Under 10-year proviso.

AUSTIN'S

FOR FOOD FOR DOMESTICATED CARNIVEROUS ANIMALS.
Claims use since 1873.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 442,461. SANCHEZ ROMATE HERMANOS, S. A., Jerez de la Frontera, Spain. Filed Apr. 10, 1941.

El César

FOR ALCOHOLIC APERITIVES AND LIQUEURS.
Claims use since Feb. 8, 1934.

Ser. No. 442,897. ERVEN LUCAS BOLS SOC. DE RESP. LTDA., Bella Vista, Argentina. Filed Apr. 24, 1941.

Hollandine

FOR GIN, CORDIALS, AND LIQUEURS.
Claims use since June 5, 1939.

Ser. No. 452,210. JAS. BARCLAY & CO. LIMITED, Peoria, Ill. Filed Apr. 8, 1942. Under 10-year proviso.

CORBY'S

FOR WHISKEY.
Claims use since 1884.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 451,813. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed Mar. 21, 1942.

Kodak

FOR TRANSPARENT SHEETING OF CELLULOSIC COMPOSITION.
Claims use since May 15, 1941.

Ser. No. 452,213. GEO. BORGFELDT CORPORATION, New York, N. Y. Filed Apr. 8, 1942.

GLORIA

FOR CHRISTMAS TREE ORNAMENTS.
Claims use since Mar. 24, 1942.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JUNE 2, 1942

395,529. WHISKEY. OLDETYME DISTILLERS, INC., New York, N. Y., assignor to Oldetyme Distillers Corporation, a corporation of Delaware.
Filed April 23, 1935. Serial No. 364,103. PUBLISHED OCTOBER 7, 1941. Class 49.

395,530. WHISKEY AND GIN. OLDETYME DISTILLERS, INC., New York, N. Y., assignor to Oldetyme Distillers Corporation, a corporation of Delaware.
Filed April 26, 1935. Serial No. 364,241. PUBLISHED OCTOBER 7, 1941. Class 49.

395,531. GASOLINE. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla.
Filed October 7, 1935. Serial No. 370,120. PUBLISHED NOVEMBER 21, 1939. Class 15.

395,532. BOOTS AND SHOES AND SLIPPERS MADE OF LEATHER, RUBBER, FABRIC, AND COMBINATION THEREOF. THE SCHOLL MFG. CO., INC., Chicago, Ill.
Filed December 24, 1936. Serial No. 387,144. PUBLISHED JANUARY 20, 1942. Class 39.

395,533. EFFERVESCENT MILK DRINK. SOUTHERN DAIRIES, INC., doing business as Southern Dairies Laboratories, Washington, D. C.
Filed December 13, 1938. Serial No. 413,800. PUBLISHED MARCH 24, 1942. Class 46.

395,534. LIQUID PREPARATION FOR CLEANING AND POLISHING GLASS AND METAL. CLAUDE H. HOOVER, doing business as C-Lite Chemical Products, Goshen, Ind.
Filed October 13, 1939. Serial No. 424,518. PUBLISHED MARCH 17, 1942. Class 4.

395,535. WASHING POWDER FOR CLEANING DISHES, DAIRY UTENSILS, BOTTLES, AND THE LIKE. JOSEPH C. SHEPARD, Wilmington, N. C.
Filed February 17, 1940. Serial No. 428,635. PUBLISHED MARCH 24, 1942. Class 4.

395,536. A CHEMICAL WATER SOFTENER AND FOAMING AGENT. THE BUBBOBATH COMPANY, Minneapolis, Minn.
Filed March 13, 1940. Serial No. 429,549. PUBLISHED MARCH 17, 1942. Class 6.

395,537. PREPARED POWDERY COATING OR DUSTING ADMIXTURE CONSISTING OF SUGAR AND SHORTENING WITH OR WITHOUT STARCH FOR COATING DOUGHNUTS, ETC. JOS LOWE CORPORATION, New York, N. Y.
Filed April 5, 1940. Serial No. 430,408. PUBLISHED MARCH 24, 1942. Class 46.

395,538. TOILET SOAPS, LAUNDRY SOAP, SOAP FLAKES, GRANULATED SOAP, SCOURING POWDER, AND TOILET BOWL CLEANER, WALL PAPER CLEANER, AND SWEEPING COMPOUND. UNITED BUYERS CORPORATION, also doing business as Foodcraft Products, Chicago, Ill.
Filed April 8, 1940. Serial No. 430,529. PUBLISHED AUGUST 13, 1940. Class 4.

395,539. LIVE STOCK FEED, POULTRY FEED AND MASH, AND FOOD FOR DOGS AND OTHER CARNIVOROUS ANIMALS. KELLOGG COMPANY, Battle Creek, Mich.
Filed September 17, 1940. Serial No. 436,055. PUBLISHED MARCH 24, 1942. Class 46.

395,540. TENNIS, SQUASH, AND BADMINTON RACKETS, GOLF AND TENNIS BALLS. HARRY C. LEE AND COMPANY, New York, N. Y.
Filed November 6, 1940. Serial No. 437,626. PUBLISHED DECEMBER 17, 1940. Class 22.

395,541. PICTORIAL BOOKLET CONSISTING ENTIRELY OF COMIC CARTOONS. M. CHARLES GAINES, New York, N. Y., assignor to Jesse Gaines and Rose Liebowitz, doing business as J. R. Publishing Company, New York, N. Y.
Filed December 17, 1940. Serial No. 438,927. PUBLISHED MARCH 24, 1942. Class 38.

395,542. NAILS FOR BOATS, PARTICULARLY THOSE MADE OF NICKEL-COPPER ALLOYS. THE INTERNATIONAL NICKEL COMPANY, INC., New York, N. Y.
Filed January 18, 1941. Serial No. 439,775. PUBLISHED MARCH 24, 1942. Class 13.

395,543. GUMMED PAPER TAPE. MID-STATES GUMMED PAPER CO., Chicago, Ill.
Filed January 21, 1941. Serial No. 439,823. PUBLISHED MARCH 24, 1942. Class 37.

395,544. DISINTEGRATED METALS IN DRY POWDER FORM. METALS DISINTEGRATING COMPANY, INC., Union, N. J.
Filed March 17, 1941. Serial No. 441,619. PUBLISHED MARCH 10, 1942. Class 14.

395,545. HIGH SPEED CUT THREAD TAPS. THREADWELL TAP & DIE COMPANY, Greenfield, Mass.
Filed March 21, 1941. Serial No. 441,793. PUBLISHED MARCH 24, 1942. Class 23.

395,546. HIGH SPEED COMMERCIAL GROUND THREAD TAPS. THREADWELL TAP & DIE COMPANY, Greenfield, Mass.
Filed March 21, 1941. Serial No. 441,794. PUBLISHED MARCH 24, 1942. Class 23.

395,547. HIGH SPEED PRECISION GROUND THREAD TAPS. THREADWELL TAP & DIE COMPANY, Greenfield, Mass.
Filed March 21, 1941. Serial No. 441,795. PUBLISHED MARCH 24, 1942. Class 23.

395,548. SHEET MATERIAL CONSISTING OF A FLEXIBLE SHEET HAVING A COATING THEREON OF GRANULATED CORK AND EMPLOYED AS RUG AND CARPET CUSHIONING MATERIAL. JOHN U. BRANIS, doing business as Korktone Company, Los Angeles, Calif.
Filed April 21, 1941. Serial No. 442,779. PUBLISHED MARCH 24, 1942. Class 50.

395,549. JEWELRY USED FOR PERSONAL WEAR—NAMELY, RINGS, BROOCHES, AND BRACELETS. WILLIAM LESTER WEBBER, Vancouver, British Columbia, Canada.
Filed April 29, 1941. Serial No. 443,096. PUBLISHED MARCH 24, 1942. Class 28.

395,550. PUMPS FOR HANDLING CORROSIVE LIQUORS. THE DURIRON COMPANY, INC., Dayton, Ohio.
Filed May 7, 1941. Serial No. 443,324. PUBLISHED MARCH 24, 1942. Class 23.

395,551. BAND AND ORCHESTRA MUSICAL INSTRUMENTS—NAMELY, CORNETS, TRUMPETS, TROMBONES, HORNS, ETC. LYONS BAND INSTRUMENT COMPANY, Chicago, Ill.
Filed June 9, 1941. Serial No. 444,351. PUBLISHED MARCH 24, 1942. Class 36.

395,552. FLAVORING EXTRACTS FOR FOOD PURPOSES, COCOA, PICKLES, CORN STARCH, COCOANUT, CANNED FRUITS, MUSTARD, JELLIES, COFFEE, MAYONNAISE, AND CATSUP. R. C. WILLIAMS & COMPANY, INC., New York, N. Y.
Filed June 12, 1941. Serial No. 444,481. PUBLISHED MARCH 24, 1942. Class 46.

395,553. SHEETS MADE OF LINEN, RAYON, SILK, AND COTTON AND COMBINATIONS THEREOF. LAWRENCE CONVERTERS, INC., New York, N. Y.
Filed June 16, 1941. Serial No. 444,572. PUBLISHED SEPTEMBER 2, 1941. Class 42.

395,554. WINES. NAPA & SONOMA WINE CO., San Francisco, Calif.
Filed June 18, 1941. Serial No. 444,651. PUBLISHED MARCH 17, 1942. Class 47.

395,555. CLOSURE CAPS FOR VARIOUS CONTAINERS. DOUBLE DUTY PRODUCTS, INC., Cleveland, Ohio.
Filed July 5, 1941. Serial No. 445,087. PUBLISHED MARCH 24, 1942. Class 50.

395,556. CANNED AND PRESERVED PEACHES. SOUTH CAROLINA PEACH GROWERS ASSOCIATION, Spartanburg, S. C.
Filed July 7, 1941. Serial No. 445,160. PUBLISHED MARCH 24, 1942. Class 46.

395,557. MULTIPLE VITAMIN COMPOUNDS COMBINED WITH CHLOROPHYL IN CAPSULE AND/OR TABLET FORM. JOSEPH CORTEZ, doing business as Colloid's Research Company, New York, N. Y.
Filed July 15, 1941. Serial No. 445,352. PUBLISHED MARCH 17, 1942. Class 6.

395,558. PHARMACEUTICAL PREPARATION USED IN THE TREATMENT OF SKIN DISEASES AND AILMENTS. FRANKLIN LABORATORIES, INC., Hackettstown, N. J.
Filed July 22, 1941. Serial No. 445,548. PUBLISHED MARCH 17, 1942. Class 6.

395,559. BEER. NORTH AMERICAN BREWING COMPANY, Brooklyn, N. Y.
Filed July 29, 1941. Serial No. 445,747. PUBLISHED MARCH 17, 1942. Class 48.

395,560. HAND OPERATED TAPPING MACHINES FOR CUTTING INTERNAL SCREW THREADS. KARL F. BERGER, doing business as Berger Manufacturing Company, Bridgeport, Conn.
Filed August 15, 1941. Serial No. 446,259. PUBLISHED MARCH 24, 1942. Class 23.

395,561. WAXED PAPER. MENASHA PRODUCTS COMPANY, Menasha, Wis.
Filed August 28, 1941. Serial No. 446,629. PUBLISHED MARCH 24, 1942. Class 37.

395,562. INSECTICIDE, GERMICIDE, AND DISINFECTANT. ALGER ROBERSON, doing business as Roberson & Sons, Cleveland, Ohio.
Filed August 28, 1941. Serial No. 446,633. PUBLISHED DECEMBER 16, 1941. Class 6.

395,563. TABLETS FOR THE TREATMENT OF SIMPLE HEADACHES, NEURALGIA, MINOR THROAT IRRITATIONS, MUSCULAR ACHES AND PAINS, FUNCTIONAL MENSTRUAL PAINS AND DISCOMFORT. KAROVIT COMPANY, San Rafael and San Francisco, Calif.
Filed September 2, 1941. Serial No. 446,737. PUBLISHED NOVEMBER 11, 1941. Class 6.

395,564. CHILI SAUCE. SNIDER PACKING CORPORATION, Rochester, N. Y.
Filed September 5, 1941. Serial No. 446,817. PUBLISHED MARCH 24, 1942. Class 46.

395,565. COLOGNE AND TOILET WATER. PERSONAL APPEARANCE, INC., Provincetown, Mass.
Filed September 10, 1941. Serial No. 446,955. PUBLISHED MARCH 24, 1942. Class 6.

395,566. WATCH CASES, WATCHES AND WATCH MOVEMENTS. CAROL JEWELRY COMPANY, INC., New York, N. Y.
Filed September 27, 1941. Serial No. 447,358. PUBLISHED MARCH 24, 1942. Class 27.

395,567. MACHINE GUNS AND SUBMACHINE GUNS. AUTO-ORDNANCE CORPORATION, New York, N. Y., and Bridgeport, Conn.
Filed October 4, 1941. Serial No. 447,533. PUBLISHED MARCH 10, 1942. Class 9.

395,568. MEN'S, WOMEN'S, AND CHILDREN'S LEATHER AND FABRIC GLOVES. M. C. COWAN AND COMPANY LIMITED, Toronto, Ontario, Canada.
Filed October 30, 1941. Serial No. 448,245. PUBLISHED MARCH 24, 1942. Class 39.

395,569. HAIRNETS. LORETTA HAIRNETS, INC., New York, N. Y.
Filed November 5, 1941. Serial No. 448,417. PUBLISHED MARCH 24, 1942. Class 39.

395,570. LADIES' LINGERIE—NAMELY, PANTIES. MORSE & MORSE, Los Angeles, Calif.
Filed November 13, 1941. Serial No. 448,619. PUBLISHED JANUARY 6, 1942. Class 39.

395,571. CERAMIC TABLE AND COOKING WARE, VASES, JARS, JUGS, JARDINIERES, CROCKS, CUSPIDORS, AND FLOWER POTS. MABEL CUMBOW RUSKIN, doing business as Cumbow China Decorating Company, Abingdon, Va.
Filed November 14, 1941. Serial No. 448,654. PUBLISHED MARCH 24, 1942. Class 30.

395,572. ELECTRIC SUMP PUMPS. PENBERTHY INJECTOR COMPANY, Detroit, Mich.
Filed November 17, 1941. Serial No. 448,706. PUBLISHED MARCH 24, 1942. Class 23.

395,573. ORNAMENTAL ARTICLES IN THE NATURE OF SMALL COLORED BALLS FOR USE IN FISH BOWLS, DISH GARDENS, AND THE LIKE. THE VITRO-AGATE COMPANY, Parkersburg, W. Va.
Filed November 17, 1941. Serial No. 448,713. PUBLISHED MARCH 24, 1942. Class 50.

395,574. ORNAMENTAL ARTICLES IN THE NATURE OF SMALL COLORED BALLS FOR USE IN FISH BOWLS, DISH GARDENS, AND THE LIKE. THE VITRO-AGATE COMPANY, Parkersburg, W. Va.
Filed November 17, 1941. Serial No. 448,714. PUBLISHED MARCH 24, 1942. Class 50.

395,575. CANINE IDENTIFICATION DEVICES EMPLOYED IN INSCRIBING IDENTIFICATION CHARACTERS ON DOGS. ALFRED WEBER, St. Louis, Mo.
Filed November 17, 1941. Serial No. 448,715. PUBLISHED MARCH 24, 1942. Class 50.

395,576. MACHINERY BEARINGS, BUSHINGS FOR MECHANICAL WORKING JOINTS AND MACHINE PARTS INCLUDING PISTONS, VALVE STEM GUIDES, ETC. BOUND BROOK OIL-LESS BEARING COMPANY, Bound Brook, N. J.
Filed November 18, 1941. Serial No. 448,719. PUBLISHED MARCH 24, 1942. Class 23.

395,577. WASHING AND CLEANING PREPARATION HAVING INCIDENTAL DISINFECTANT PROPERTIES. JOSEPH CONTRINO, doing business as Dixie White Washing Fluid Co., Newark, N. J.
Filed November 18, 1941. Serial No. 448,723. PUBLISHED MARCH 24, 1942. Class 4.

395,578. APPARATUS FOR THE TREATMENT OF SOLIDS SUSPENDED IN LIQUIDS AND MORE PARTICULARLY FOR AGITATING AND CLARIFYING APPARATUS. THE DORR COMPANY, INC., New York, N. Y.
Filed November 22, 1941. Serial No. 448,821. PUBLISHED MARCH 17, 1942. Class 23.

395,579. WINES. MANUEL ROMERO DE ARANDA, Jerez de la Frontera, Spain.
Filed November 24, 1941. Serial No. 448,855. PUBLISHED MARCH 17, 1942. Class 47.

395,580. WALL PAPER COATING COMPOSITION IN THE NATURE OF A PAINT, VARNISH OR ENAMEL. FARBOIL PAINT COMPANY, INC., Baltimore, Md.
Filed November 24, 1941. Serial No. 448,857. PUBLISHED MARCH 24, 1942. Class 16.

395,581. OPHTHALMIC LENS BLANKS AND EYEGLASS LENSES. THE UNIVIS LENS COMPANY, Dayton, Ohio.
Filed November 24, 1941. Serial No. 448,883. PUBLISHED MARCH 24, 1942. Class 26.

395,582. TOOTHPASTE. LAMBERT PHARMACAL COMPANY, Wilmington, Del.
Filed November 27, 1941. Serial No. 448,974. PUBLISHED MARCH 17, 1942. Class 6.

395,583. BRANDY. E. & J. GALLO WINERY, Modesto, Calif.
Filed November 28, 1941. Serial No. 449,005. PUBLISHED MARCH 17, 1942. Class 49.

395,584. UNITARY KITS INCLUDING AN ASSEMBLY OF GLASS CUTTERS, PUTTY KNIVES, WALL SCRAPERS, AND SCRAPERS FOR GENERAL PURPOSES, USED BY PAINTERS, GLAZIERS, AND THE LIKE. LANDON P. SMITH, INC., Irvington, N. J.
Filed November 28, 1941. Serial No. 449,024. PUBLISHED MARCH 24, 1942. Class 23.

395,585. RAILWAY CAR CASTINGS—NAMELY, SIDE FRAMES, BOLSTERS, CORNER BRACKETS AND CENTER FILLER CASTINGS. BIRDSBORO STEEL FOUNDRY & MACHINE COMPANY, Birdsboro, Pa.
Filed November 29, 1941. Serial No. 449,034. PUBLISHED MARCH 10, 1942. Class 14.

395,586. PRINTED PUBLICATIONS ISSUED PERIODICALLY—NAMELY, BIRTHDAY FORECASTS. THE DELL PUBLISHING COMPANY, INC., New York, N. Y.
Filed December 1, 1941. Serial No. 449,077. PUBLISHED MARCH 17, 1942. Class 38.

395,587. WATCHES CASED AND UNCASED. PAUL WYLER, Forest Hills, N. Y.
Filed December 3, 1941. Serial No. 449,164. PUBLISHED MARCH 24, 1942. Class 27.

395,588. ALLOY STEEL. THE MIDVALE COMPANY, Philadelphia, Pa.
Filed December 6, 1941. Serial No. 449,235. PUBLISHED MARCH 10, 1942. Class 14.

395,589. ALLOY STEEL. THE MIDVALE COMPANY, Philadelphia, Pa.
Filed December 6, 1941. Serial No. 449,237. PUBLISHED MARCH 10, 1942. Class 14.

395,590. MACHINE FOR SEPARATING CEREAL OR CEREAL MATERIALS. HART-CARTER CO., Minneapolis, Minn.
Filed December 8, 1941. Serial No. 449,273. PUBLISHED MARCH 10, 1942. Class 23.

395,591. ANT-ACID PREPARATION. PINE BROS., INC., Philadelphia, Pa.
Filed December 8, 1941. Serial No. 449,292. PUBLISHED JANUARY 27, 1942. Class 6.

395,592. SOAP. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio.
Filed December 8, 1941. Serial No. 449,294. PUBLISHED MARCH 10, 1942. Class 4.

395,593. PARTIAL DENTURES, DENTAL BRIDGES, DENTAL CROWNS AND DENTAL PLATES. HENRY M. HAENDEL, Brooklyn, N. Y.
Filed December 9, 1941. Serial No. 449,321. PUBLISHED MARCH 24, 1942. Class 44.

395,594. LIQUID OR POWDER RENNET PREPARATION USED IN THE MANUFACTURE OF CHEESE, DAIRY PRODUCTS, ICE CREAM, AND PUDDING AND DESSERT PREPARATIONS. RENNEX CORPORATION, New York, N. Y.
Filed December 9, 1941. Serial No. 449,328. PUBLISHED MARCH 24, 1942. Class 46.

395,595. LUBRICATION EQUIPMENT—NAMELY, LUBRICATOR WALL BATTERIES, PORTABLE AND STATIONARY BARREL PUMPS, OIL DRAINS, GREASE AND LUBRICANT HOSE ROLLS. THE CINCINNATI BALL CRANK CO., Cincinnati, Ohio.
Filed December 10, 1941. Serial No. 449,337. PUBLISHED MARCH 24, 1942. Class 23.

395,596. MECHANICAL PENCILS, LEAD-HOLDERS, PENCIL-LEADS, BLACK, COLOURED, COPYING AND INDELIBLE PENCILS. FABRIQUE SUISSE DE CRAYONS CARAN D'ACHE, S. A., Geneva, Switzerland.
Filed December 10, 1941. Serial No. 449,338. PUBLISHED MARCH 24, 1942. Class 37.

395,597. WINES. GOLAN WINES, INC., Los Angeles, Calif., assignor to Central Winery, Inc., Fresno, Calif., a corporation of California.
Filed December 10, 1941. Serial No. 449,342. PUBLISHED MARCH 24, 1942. Class 47.

395,598. MEN'S AND LADIES' BRACELETS AND WATCH BRACELETS SOLD SEPARATELY FROM THE WATCHES. JACOBY-BENDER, INC., New York, N. Y.
Filed December 10, 1941. Serial No. 449,344. PUBLISHED MARCH 24, 1942. Class 28.

395,599. MOLDED RESIN BEARING FIBROUS FRAMES, COVERS AND MISCELLANEOUS DETAIL PARTS FOR TYPEWRITERS, ADDING MACHINES, CALCULATING MACHINES AND LIKE BUSINESS MACHINES. KEYES FIBRE COMPANY, Waterville, Maine.
Filed December 10, 1941. Serial No. 449,347. PUBLISHED MARCH 17, 1942. Class 23.

395,600. SOYBEAN FLOUR, LINSEED MEAL FOR LIVESTOCK FOOD, SOYBEAN OIL MEAL FOR LIVESTOCK FOOD, AND MIXED FEEDS FOR POULTRY AND LIVESTOCK. ARCHER-DANIELS-MIDLAND COMPANY, Minneapolis, Minn.
Filed December 12, 1941. Serial No. 449,404. PUBLISHED MARCH 24, 1942. Class 46.

395,601. WINES. NAPA & SONOMA WINE CO., San Francisco, Calif.
Filed December 12, 1941. Serial No. 449,429. PUBLISHED MARCH 24, 1942. Class 47.

395,602. REAL FLOWERS. E. W. MCLELLAN CO., San Francisco, Calif.
Filed December 16, 1941. Serial No. 449,527. PUBLISHED MARCH 24, 1942. Class 1.

395,603. ALE. HAMPDEN BREWING COMPANY, Willimansett, Mass.
Filed December 17, 1941. Serial No. 449,549. PUBLISHED MARCH 24, 1942. Class 48.

395,604. WRIST WATCH STRAPS OF LEATHER OR FABRIC; APPAREL BUCKLES AND COLLAR AND CUFF BUTTONS MADE OF NON-PRECIOUS METAL. GEMEX COMPANY, Newark, N. J.
Filed December 18, 1941. Serial No. 449,573. PUBLISHED MARCH 24, 1942. Class 40.

395,605. NONALCOHOLIC MALTLESS BEVERAGE SOLD AS A SOFT DRINK. KALAK WATER CO. OF NEW YORK, INC., Louisville, Ky., and New York, N. Y.
Filed December 18, 1941. Serial No. 449,580. PUBLISHED MARCH 24, 1942. Class 45.

395,606. WINES. CAMEO VINEYARDS COMPANY, Fresno, Calif.
Filed December 19, 1941. Serial No. 449,598. PUBLISHED MARCH 17, 1942. Class 47.

395,607. SCOURING SOAP IN CAKE OR POWDERED FORM. THE BON AMI COMPANY, New York, N. Y.
Filed December 22, 1941. Serial No. 449,665. PUBLISHED MARCH 10, 1942. Class 4.

395,608. ADVERTISING COLLAR OR DEVICE FOR BOTTLES. EDWIN M. JONES, Silver Spring, Md.
Filed December 22, 1941. Serial No. 449,689. PUBLISHED MARCH 24, 1942. Class 50.

395,609. FLEA SOAP. POLK MILLER PRODUCTS CORPORATION, Richmond, Va.
Filed December 22, 1941. Serial No. 449,700. PUBLISHED MARCH 17, 1942. Class 4.

395,610. VEHICLE WHEEL ALIGNING DEVICES FOR SHOP SERVICE. THOMPSON PRODUCTS, INCORPORATED, Cleveland, Ohio.
Filed December 22, 1941. Serial No. 449,706. PUBLISHED MARCH 24, 1942. Class 23.

395,611. PAPER, PARTICULARLY ROUGH WRAPPING PAPER, TISSUE PAPER, AND GUMMED PAPER. CRITERION PAPER & TWINE COMPANY, New York, N. Y.
Filed December 23, 1941. Serial No. 449,722. PUBLISHED MARCH 24, 1942. Class 37.

395,612. PORTABLE GAS COMPRESSORS. INGERSOLL-RAND COMPANY, New York, N. Y.
Filed December 23, 1941. Serial No. 449,723. PUBLISHED MARCH 24, 1942. Class 23.

395,613. PLUG TOBACCO. ROTH TOBACCO COMPANY, Cape Girardeau, Mo.
Filed December 24, 1941. Serial No. 449,743. PUBLISHED MARCH 24, 1942. Class 17.

395,614. COLOGNE, TOILET WATER, PERFUME, BUBBLE BATH PREPARATION, BATH POWDER, BATH SALTS, FACE POWDER, AND DEODORANTS. IRRESISTIBLE, INC., Jersey City, N. J.
Filed December 26, 1941. Serial No. 449,773. PUBLISHED MARCH 17, 1942. Class 6.

395,615. PREPARATION FOR PRESERVING LEATHER. FRANKLIN E. EVERSON, doing business as F. E. Everson, New York, N. Y.
Filed December 27, 1941. Serial No. 449,794. PUBLISHED MARCH 24, 1942. Class 4.

395,616. MATCHES. THE KROGER GROCERY & BAKING COMPANY, doing business as Wesco Foods Company, Cincinnati, Ohio.
Filed December 30, 1941. Serial No. 449,862. PUBLISHED MARCH 10, 1942. Class 9.

395,617. BLACKBOARD ERASERS. MILTON BRADLEY COMPANY, Springfield, Mass.
Filed December 31, 1941. Serial No. 449,885. PUBLISHED MARCH 24, 1942. Class 37.

395,618. DRAWING INK, HECTOGRAPH INK, WRITING FLUID, RECORD INK, BLOCK PRINTING INK, STAMP PAD INK, STAMP PADS. MILTON BRADLEY COMPANY, Springfield, Mass.
Filed December 31, 1941. Serial No. 449,887. PUBLISHED MARCH 17, 1942. Class 11.

395,619. PARTICULATE CARBON FOR USE AS A PAINT PIGMENT. COLUMBIAN CARBON COMPANY, New York, N. Y.
Filed December 31, 1941. Serial No. 449,895. PUBLISHED MARCH 10, 1942. Class 16.

395,620. PREPARATION FOR THE SOFTENING OF WAXES AND WOUND FILLERS PARTICULARLY ADAPTED FOR USE IN THE EMBALMING TRADE. THE EMBALMERS' SUPPLY COMPANY, Westport, Conn.
Filed January 2, 1942. Serial No. 449,959. PUBLISHED MARCH 17, 1942. Class 6.

395,621. RAINCOATS, RAIN CAPES, COMBINED RAIN CAPES AND HOODS, AND RAIN SKIRTS, ALL FORMED OF TRANSLUCENT FILMLIKE MATERIAL. RICHARDS, BOGGS & KING, INC., Chicago, Ill.
Filed January 5, 1942. Serial No. 450,001. PUBLISHED MARCH 10, 1942. Class 39.

395,622. DISINFECTANTS. FULD BROS., Baltimore, Md.
Filed January 6, 1942. Serial No. 450,011. PUBLISHED MARCH 24, 1942. Class 6.

395,623. RESINOUS MATERIAL. THE MEAD CORPORATION, Chillicothe, Ohio.
Filed January 6, 1942. Serial No. 450,018. PUBLISHED MARCH 24, 1942. Class 1.

395,624. LEATHER SHOES FOR MEN, WOMEN, AND CHILDREN. RASMUSSEN SHOE COMPANY, Westboro, Mass.
Filed January 6, 1942. Serial No. 450,023. PUBLISHED MARCH 24, 1942. Class 39.

395,625. OFFSET PAPER IN ROLLS. MCGRAW-HILL PUBLISHING COMPANY, INC., New York, N. Y.
Filed January 8, 1942. Serial No. 450,074. PUBLISHED MARCH 24, 1942. Class 37.

395,626. FIELD AND GARDEN SEEDS AND FARM AND GRASS SEEDS. NORTHRUP, KING & CO., doing business as Westland Seed Company, Berkeley, Calif.
Filed January 8, 1942. Serial No. 450,075. PUBLISHED MARCH 24, 1942. Class 1.

395,627. STILL AND SPARKLING WINES. GERTING & FROMM, INC., Chicago, Ill.
Filed January 9, 1942. Serial No. 450,098. PUBLISHED MARCH 24, 1942. Class 47.

395,628. MISSES' AND WOMEN'S GLOVES MADE OF LEATHER, FABRIC, AND COMBINATIONS THEREOF. SAKS & COMPANY, New York, N. Y.
Filed January 9, 1942. Serial No. 450,117. PUBLISHED MARCH 24, 1942. Class 39.

395,629. SHOES MADE OF LEATHER, FABRIC, OR A COMBINATION OF THESE MATERIALS. THE JULIAN & KOKENGE CO., Columbus, Ohio.
Filed January 12, 1942. Serial No. 450,162. PUBLISHED MARCH 24, 1942. Class 39.

395,630. BRANDY. WALTER J. MULLIGAN, doing business as W. J. Mulligan & Co., San Francisco, Calif.
Filed January 12, 1942. Serial No. 450,168. PUBLISHED MARCH 17, 1942. Class 49.

395,631. TOILET PREPARATIONS—NAMELY, OILS AND BLENDS OF OILS FOR THE SKIN, CREAMS AND LOTIONS FOR THE SKIN, ETC. DERMETICS, INC., Seattle, Wash.
Filed January 14, 1942. Serial No. 450,192. PUBLISHED MARCH 17, 1942. Class 6.

395,632. TOILET PREPARATIONS—NAMELY, OILS AND BLENDS OF OILS FOR THE SKIN, CREAMS AND LOTIONS FOR THE SKIN, ETC. DERMETICS, INC., Seattle, Wash.
Filed January 14, 1942. Serial No. 450,193. PUBLISHED MARCH 17, 1942. Class 6.

395,633. TOILET PREPARATIONS—NAMELY, OILS AND BLENDS OF OILS FOR THE SKIN, CREAMS AND LOTIONS FOR THE SKIN, ETC. DERMETICS, INC., Seattle, Wash.
Filed January 14, 1942. Serial No. 450,194. PUBLISHED MARCH 17, 1942. Class 6.

395,634. RUBBER OR LATEX IN SOLUTION OR AQUEOUS SUSPENSION, FOR USE IN THE PROCESS OF SHOE MANUFACTURING. SHOE COVERS CORPORATION, New York, N. Y.
Filed January 14, 1942. Serial No. 450,213. PUBLISHED MARCH 24, 1942. Class 1.

395,635. PLUG GAUGES AND PARTS THEREFOR. UNITED PRECISION PRODUCTS CO., Chicago, Ill.
Filed January 14, 1942. Serial No. 450,215. PUBLISHED MARCH 24, 1942. Class 26.

395,636. PLUG GAUGES AND PARTS THEREFOR. UNITED PRECISION PRODUCTS CO., Chicago, Ill.
Filed January 14, 1942. Serial No. 450,216. PUBLISHED MARCH 24, 1942. Class 26.

395,637. PHOTO MAT-MOUNTS, ARTIST ILLUSTRATION BOARD, MOUNTING BOARD, PORTFOLIOS, AND PAPER PADS. NATIONAL ARTIST MATERIALS COMPANY, INC., New York, N. Y.
Filed January 15, 1942. Serial No. 450,242. PUBLISHED MARCH 24, 1942. Class 37.

395,638. DEODORIZING FRESHENER FOR PERSONAL USE. PARFUM L'ORLE, INC., New York, N. Y.
Filed January 15, 1942. Serial No. 450,243. PUBLISHED MARCH 24, 1942. Class 6.

395,639. COATED FABRICS. TEXTILEATHER CORPORATION, Toledo, Ohio.
Filed January 15, 1942. Serial No. 450,250. PUBLISHED MARCH 24, 1942. Class 50.

395,640. GLOVES AND APRONS MADE IN WHOLE OR IN PART OF POLYVINYL ALCOHOL FOR SHOP, INDUSTRIAL, LABORATORY, AND HOUSEHOLD USE, IN THE HANDLING OF AND FOR PROTECTION OF THE PERSON AGAINST OILS, HYDROCARBON FUELS AND ORGANIC SOLVENTS. RESISTOFLEX CORPORATION, Belleville, N. J.
Filed January 17, 1942. Serial No. 450,284. PUBLISHED MARCH 24, 1942. Class 39.

395,641. VEGETABLE JUICE COCKTAIL. EUGENE FRUIT GROWERS ASSOCIATION, Eugene, Oreg.
Filed January 19, 1942. Serial No. 450,306. PUBLISHED MARCH 24, 1942. Class 46.

395,642. "BULGAR BACILLI," A CULTURED BACILLUS OR CULTURED MILK FOR HUMAN CONSUMPTION. PETER P. GRUPCHEFF, Los Angeles, Calif.
Filed January 19, 1942. Serial No. 450,308. PUBLISHED MARCH 24, 1942. Class 46.

395,643. NONFERROUS ALLOY. UNITED AMERICAN METALS CORPORATION, Brooklyn, N. Y.
Filed January 19, 1942. Serial No. 450,322. PUBLISHED MARCH 24, 1942. Class 14.

395,644. GAS MASKS, GAS MASK CANISTERS, AND PARTS OF EACH. ACME PROTECTION EQUIPMENT CO., INC., Pittsburgh, Pa.
Filed January 20, 1942. Serial No. 450,325. PUBLISHED MARCH 24, 1942. Class 44.

395,645. FINISHED AND PARTLY PREPARED LEATHERS, USED IN THE MANUFACTURE OF HANDBAGS. MAX BRILL SONS, INC., New York, N. Y.
Filed January 20, 1942. Serial No. 450,328. PUBLISHED MARCH 24, 1942. Class 1.

395,646. SHOE TREES. SCHELTER LAST CO., INC., doing business as Rochester Shoe Tree Co., Rochester, N. Y.
Filed January 20, 1942. Serial No. 450,346. PUBLISHED MARCH 24, 1942. Class 50.

395,647. CARTRIDGES. O'NEIL, KEITH AND HOPKINS, Spokane, Wash.
Filed January 21, 1942. Serial No. 450,375. PUBLISHED MARCH 24, 1942. Class 9.

395,648. GENERAL PURPOSE BLEACHED COTTON. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed January 21, 1942. Serial No. 450,380. PUBLISHED MARCH 24, 1942. Class 1.

395,649. ORAL PROPHYLACTIC. MCDONALD BIOCHEMIC LABORATORIES LIMITED, Toronto, Ontario, Canada.
Filed January 22, 1942. Serial No. 450,399. PUBLISHED MARCH 17, 1942. Class 6.

395,650. MEDICINAL PREPARATION FOR THE TREATMENT OF DIABETIC GANGRENE, MASTOID ANTRUM AND SINUS INFECTION BY INJECTION OR TOPICAL APPLICATION. MCDONALD BIOCHEMIC LABORATORIES LIMITED, Toronto, Ontario, Canada.
Filed January 22, 1942. Serial No. 450,400. PUBLISHED MARCH 17, 1942. Class 6.

395,651. LIQUID NAIL POLISH. NORTHAM WARREN CORPORATION, Stamford, Conn.
Filed January 23, 1942. Serial No. 450,423. PUBLISHED MARCH 17, 1942. Class 6.

395,652. PREPARATION FOR THE RELIEF OF COUGHS DUE TO COLDS. S. C. WELLS & COMPANY, Le Roy, N. Y.
Filed January 23, 1942. Serial No. 450,437. PUBLISHED MARCH 7, 1942. Class 6.

395,653. DRAFT DIVERTERS FOR HOT WATER HEATERS, GAS FURNACES, AND UNIT HEATERS. THE WILDER MANUFACTURING CO., Niles, Ohio.
Filed January 24, 1942. Serial No. 450,465. PUBLISHED MARCH 24, 1942. Class 34.

395,654. AQUEOUS SUSPENSION OF MINERAL OIL FOR THE TREATMENT OF CONSTIPATION. PETROGALAR LABORATORIES, INC., Chicago, Ill.
Filed January 27, 1942. Serial No. 450,517. PUBLISHED MARCH 17, 1942. Class 6.

395,655. AQUEOUS SUSPENSION OF MINERAL OIL FOR THE TREATMENT OF CONSTIPATION. PETROGALAR LABORATORIES, INC., Chicago, Ill.
Filed January 27, 1942. Serial No. 450,518. PUBLISHED MARCH 17, 1942. Class 6.

395,656. AQUEOUS SUSPENSION OF MINERAL OIL FOR THE TREATMENT OF CONSTIPATION. PETROGALAR LABORATORIES, INC., Chicago, Ill.
Filed January 27, 1942. Serial No. 450,519. PUBLISHED MARCH 17, 1942. Class 6.

395,657. AQUEOUS SUSPENSION OF MINERAL OIL FOR THE TREATMENT OF CONSTIPATION. PETROGALAR LABORATORIES, INC., Chicago, Ill.
Filed January 27, 1942. Serial No. 450,520. PUBLISHED MARCH 17, 1942. Class 6.

395,658. AQUEOUS SUSPENSION OF MINERAL OIL FOR THE TREATMENT OF CONSTIPATION. PETROGALAR LABORATORIES, INC., Chicago, Ill.
Filed January 27, 1942. Serial No. 450,521. PUBLISHED MARCH 17, 1942. Class 6.

395,659. AQUEOUS SUSPENSION OF MINERAL OIL FOR THE TREATMENT OF CONSTIPATION. PETROGALAR LABORATORIES, INC., Chicago, Ill.
Filed January 27, 1942. Serial No. 450,522. PUBLISHED MARCH 17, 1942. Class 6.

395,660. RARE GASES—NAMELY, ARGON, NEON, HELIUM, XENON, AND KRYPTON, AND MIXTURES THEREOF. AIR REDUCTION SALES COMPANY, New York, N. Y.
Filed January 28, 1942. Serial No. 450,527. PUBLISHED MARCH 17, 1942. Class 6.

395,661. FISH LIVER OIL CONTAINING VITAMIN A. CALIFORNIA PACKING CORPORATION, San Francisco, Calif.
Filed January 28, 1942. Serial No. 450,533. PUBLISHED MARCH 17, 1942. Class 6.

395,662. GIRDLES AND CORSETS. WOLFE & LANG, INC., New York, N. Y.
Filed January 29, 1942. Serial No. 450,578. PUBLISHED MARCH 24, 1942. Class 39.

395,663. CANNED VEGETABLES. FLOTILL PRODUCTS, INCORPORATED, Stockton, Calif.
Filed January 30, 1942. Serial No. 450,586. PUBLISHED MARCH 24, 1942. Class 46.

395,664. SOLVENT FOR REMOVING DISCOLORATIONS AND SCALE FROM PIPES, PLUMBING FIXTURES, OR OTHER SURFACES. W. H. PLUNKETT, doing business as Plunkett Chemical Company, Chicago, Ill.
Filed February 3, 1942. Serial No. 450,685. PUBLISHED MARCH 17, 1942. Class 6.

395,665. DRAIN PIPE CLEANER. W. H. PLUNKETT, doing business as Plunkett Chemical Company, Chicago, Ill.
Filed February 3, 1942. Serial No. 450,686. PUBLISHED MARCH 17, 1942. Class 6.

395,666. DISINFECTANT, INSECTICIDE, SOLVENT FOR REMOVING DISCOLORATIONS AND SCALE FROM PIPES, PLUMBING FIXTURES, OR OTHER SURFACES, DISINFECTANT WITH CLEANSING PROPERTIES, AND SKIN CONDITIONER FOR ANIMALS. W. H. PLUNKETT, doing business as Plunkett Chemical Company, Chicago, Ill.
Filed February 3, 1942. Serial No. 450,689. PUBLISHED MARCH 17, 1942. Class 6.

395,667. OINTMENT, RECTAL OINTMENT, DRAWING SALVE, FOOT POWDER AND HERB TEA LAXATIVE. PETER VOSS, Washington, D. C.
Filed February 3, 1942. Serial No. 450,701. PUBLISHED MARCH 17, 1942. Class 6.

395,668. FOOD COLORS. PRICE FLAVORING EXTRACT Co., Chicago, Ill.
Filed February 4, 1942. Serial No. 450,741. PUBLISHED MARCH 17, 1942. Class 6.

395,669. MEDICINAL PREPARATION RECOMMENDED FOR USE AS A LAXATIVE AND FOR REGULATORY EFFECT IN CONSTIPATION. SANDOZ CHEMICAL WORKS, INC., New York, N. Y.
Filed February 4, 1942. Serial No. 450,747. PUBLISHED MARCH 17, 1942. Class 6.

395,670. OINTMENT FOR THE TREATMENT OF CONGESTION OF NASAL PASSAGES CAUSED BY COMMON COLDS AND SINUS IRRITATIONS, AND WHICH IS ALSO USEFUL IN THE TREATMENT OF CUTS, SCRATCHES, FROST BITE, AND MINOR SKIN IRRITATIONS. CLAUDE R. WADLINGTON Co., Hopkinsville, Ky.
Filed February 4, 1942. Serial No. 450,756. PUBLISHED MARCH 17, 1942. Class 6.

395,671. TONIC USED IN THE TREATMENT OF HYPOTENSION AND ASTHENIA. CHICAGO PHARMACAL COMPANY, Chicago, Ill.
Filed February 6, 1942. Serial No. 450,782. PUBLISHED MARCH 24, 1942. Class 6.

395,672. PREPARATION FOR HYPERTENSION. CHICAGO PHARMACAL COMPANY, Chicago, Ill.
Filed February 6, 1942. Serial No. 450,783. PUBLISHED MARCH 24, 1942. Class 6.

395,673. PREPARATION OF DIGITALIS FOR USE IN THE TREATMENT OF CARDIAC CONDITIONS REQUIRING DIGITALIS. CHICAGO PHARMACAL COMPANY, Chicago, Ill.
Filed February 6, 1942. Serial No. 450,784. PUBLISHED MARCH 24, 1942. Class 6.

395,674. PHARMACEUTICAL PREPARATION FOR RECTAL ANESTHESIA. CHICAGO PHARMACAL COMPANY, Chicago, Ill.
Filed February 6, 1942. Serial No. 450,787. PUBLISHED MARCH 24, 1942. Class 6.

395,675. SEDATIVE USED IN THE TREATMENT OF PERTUSSIS. CHICAGO PHARMACAL COMPANY, Chicago, Ill.
Filed February 6, 1942. Serial No. 450,788. PUBLISHED MARCH 17, 1942. Class 6.

395,676. PREPARATION FOR THE TREATMENT OF ANTIARTHRITIC AND ANTIRHEUMATIC CONDITIONS. CHICAGO PHARMACAL COMPANY, Chicago, Ill.
Filed February 6, 1942. Serial No. 450,789. PUBLISHED MARCH 17, 1942. Class 6.

395,677. PREPARATION TO SUPPLY IRON, CALCIUM, PHOSPHORUS AND VITAMIN D, WHEREVER A DEFICIENCY OF THESE ELEMENTS OCCURS BUT PRINCIPALLY FOR USE IN PRENATAL TREATMENT WHEN A GREAT DRAIN ON THESE ELEMENTS OCCURS. CHICAGO PHARMACAL COMPANY, Chicago, Ill.
Filed February 6, 1942. Serial No. 450,791. PUBLISHED MARCH 17, 1942. Class 6.

395,678. EPITHELIAL STIMULANT USED IN THE TREATMENT OF ULCERS. CHICAGO PHARMACAL COMPANY, Chicago, Ill.
Filed February 6, 1942. Serial No. 450,792. PUBLISHED MARCH 17, 1942. Class 6.

395,679. PERFUMES. GOURIELLI, INC., New York, N. Y.
Filed February 7, 1942. Serial No. 450,834. PUBLISHED MARCH 24, 1942. Class 6.

395,680. PRECIPITATED CALCIUM CARBONATE. WISHNICK-TUMPEER, INC., Chicago, Ill.
Filed February 9, 1942. Serial No. 450,872. PUBLISHED MARCH 24, 1942. Class 6.

395,681. THEOBROMINE AND DIGITALIS PREPARATION IN TABLET FORM INDICATED IN HEART CONDITIONS. THE DRUG PRODUCTS Co., INC., Long Island City, N. Y.
Filed February 10, 1942. Serial No. 450,874. PUBLISHED MARCH 24, 1942. Class 6.

395,682. FERTILIZERS, PLANT FOODS AND GARDEN FOODS. W. ATLEE BURPEE COMPANY, Philadelphia, Pa.
Filed March 8, 1941. Serial No. 441,345. PUBLISHED MARCH 31, 1942. Class 10.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

395,683. (CLASS 47. WINES.) ITALIAN SWISS COLONY, San Francisco, Calif. Filed Nov. 19, 1940. Serial No. 438,043.

MELLO-RED

BY ITALIAN SWISS COLONY ASTI, CALIFORNIA

FOR WINES.
Claims use since Nov. 7, 1940.

395,684. (CLASS 47. WINES.) ITALIAN SWISS COLONY, San Francisco, Calif. Filed Nov. 19, 1940. Serial No. 438,044.

MELLO-WHITE

BY ITALIAN SWISS COLONY ASTI, CALIFORNIA

FOR WINES.
Claims use since Nov. 7, 1940.

395,685. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARYLAND PIE BAKERY, INC., also doing business as Maryland Bakery Inc., Baltimore, Md. Filed Dec. 2, 1940. Serial No. 438,442.

PULLMAN LOAF

FOR BREAD.
Claims use since Oct. 21, 1940.

395,686. (CLASS 47. WINES.) SOUTHLAND WINE CORPORATION, Richmond, Va. Filed Jan. 18, 1941. Serial No. 439,784.

TUTTI FRUITTI

FOR WINES.
Claims use since Dec. 16, 1940.

395,687. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOLLYWOOD BRANDS, INC., doing business as Hollywood Candy Co., Centralia, Ill. Filed Jan. 29, 1941. Serial No. 440,093.

Butter-Nut

FOR CANDY BARS.
Claims use since Aug. 15, 1930.

395,688. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed Mar. 4, 1941. Serial No. 441,206.

Twin Prints

FOR SHOWER CURTAINS AND MATCHING SHOWER CURTAINS AND WINDOW DRAPES SOLD TOGETHER AS A UNIT.
Claims use since Dec. 26, 1940.

395,689. (CLASS 43. THREAD AND YARN.) ABERFOYLE MANUFACTURING COMPANY, Chester, Pa. Filed Mar. 10, 1941. Serial No. 441,383.

ENTWIST

FOR YARN.
Claims use since Feb. 3, 1941.

395,690. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) KAYWOODIE COMPANY, New York, N. Y. Filed Mar. 17, 1941. Serial No. 441,614.

Twin-Bowl

FOR PIPES.
Claims use since Mar. 5, 1941.

395,691. (CLASS 38. PRINTS AND PUBLICATIONS.) THE TORRINGTON COMPANY, Torrington, Conn. Filed Apr. 5, 1941. Serial No. 442,340.

THE BEARING ENGINEER

FOR A MAGAZINE AND HOUSE ORGAN.
Claims use since February, 1941.

395,692. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELIZABETH KENT, INC., New York, N. Y. Filed Apr. 12, 1941. Serial No. 442,528.

Eye ★ Trim

FOR MASCARA.
Claims use since Apr. 2, 1941.

395,693. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) WILLIAM H. MEINCKE, doing business as Verne Products Company, White Plains, N. Y. Filed May 8, 1941. Serial No. 443,369.

SERVICE

FOR CIGARETTE CASES.
Claims use since Feb. 11, 1941.

395,694. (CLASS 43. THREAD AND YARN.) BERNHARD ULMANN CO. INC., New York, N. Y. Filed June 17, 1941. Serial No. 444,618.

BEAUTY-POINT

FOR HAND KNITTING, CROCHETING AND RUG YARNS.
Claims use since Mar. 6, 1941.

395,695. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE LINDSAY WIRE WEAVING COMPANY, Cleveland, Ohio. Filed July 9, 1941. Serial No. 445,204.

CRIMPRESS

FOR WOVEN WIRE BELTS FOR PAPER MAKING MACHINERY.
Claims use since Apr. 4, 1941.

395,696. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ADOLF MELLER, doing business as Adolf Meller Company, Providence, R. I. Filed July 12, 1941. Serial No. 445,294.

TRU BLAK

FOR ONYX STONES.
Claims use since Mar. 1, 1941.

395,697. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PETERSON NUT COMPANY, Cleveland, Ohio. Filed July 15, 1941. Serial No. 445,364.

Kernels

"NUTRITIOUS for LONGER LIFE"

FOR PLAIN, MIXED, COOKED AND UNCOOKED, SALTED AND UNSALTED NUTS.
Claims use since Nov. 1, 1940.

395,698. (CLASS 38. PRINTS AND PUBLICATIONS.) AD-HERE PAPER COMPANY, INC., Los Angeles, Calif. Filed Aug. 5, 1941. Serial No. 445,973.

TRAFFIC STOPPER

FOR A PRINTED STICKER.
Claims use since Feb. 5, 1941.

395,699. (CLASS 38. PRINTS AND PUBLICATIONS.) NEW YORK EVENING JOURNAL, INC., New York, N. Y., now by merger Hearst Consolidated Publications, Inc., a corporation of Delaware. Filed Aug. 7, 1941. Serial No. 446,061.

Dorris Morelle

FOR NEWSPAPER SECTION.
Claims use since May 29, 1939.

395,700. (CLASS 38. PRINTS AND PUBLICATIONS.) NEW YORK EVENING JOURNAL, INC., New York, N. Y., now by merger Hearst Consolidated Publications, Inc., a corporation of Delaware. Filed Aug. 7, 1941. Serial No. 446,062.

Karen March

FOR A NEWSPAPER SECTION.
Claims use since May 28, 1939.

395,701. (CLASS 38. PRINTS AND PUBLICATIONS.) MARTIN J. SCHWARTZ, New York, N. Y. Filed Oct. 17, 1941. Serial No. 447,893.

The Millinery Retailer

FOR PERIODICAL PUBLICATION.
Claims use since Apr. 1, 1941.

395,702. (CLASS 27. HOROLOGICAL INSTRUMENTS.) BEN LERMAN, doing business as Mastercrafters Manufacturing Company, Chicago, Ill. Filed Oct. 30, 1941. Serial No. 448,257.

MasterCrafters

FOR CLOCKS.
Claims use since August, 1936.

395,703. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MOUNT VERNON-WOODBERRY MILLS, INC., Baltimore, Md. Filed Nov. 4, 1941. Serial No. 448,392.

VANLOON

FOR COTTON DUCKS, WATER-PROOF DUCKS, AND COTTON PIECE GOODS.
Claims use since Jan. 26, 1937.

395,704. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) ANGEL P. JULIÁ, doing business as Cia Licorera Julia, Barrio Obrero, Santurce, P. R. Filed Nov. 26, 1941. Serial No. 448,945.

SAN LORENZO

"The friendly spirit of the Tropics"



FOR RUM.
Claims use since February, 1937.

395,705. (CLASS 47. WINES.) ANGEL QUINDIMIL, Buenos Aires, Argentina. Filed Dec. 12, 1941. Serial No. 449,434.

"BUENOS AIRES"

FOR WINES—NAMELY, VERMOUTHS.
Claims use since 1927.

395,706. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CARLYLE C. WULFF, doing business as Wulff Manufacturing Co., Chicago, Ill. Filed Dec. 17, 1941. Serial No. 449,564.

HONE-RITE

FOR MECHANICAL KNIFE SHARPENERS.
Claims use since Oct. 1, 1940.

395,707. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES E. FROSST & CO., Montreal, Quebec, Canada. Filed Jan. 14, 1942. Serial No. 450,200.

NEO-CHEMICAL

FOR GENERAL TONIC.
Claims use since Feb. 1, 1933.

395,708. (CLASS 47. WINES.) ROMA WINE COMPANY, INC., Fresno, Calif. Filed Jan. 17, 1942. Serial No. 450,285.

AROMA

FOR WINES.
Claims use since Feb. 10, 1938.

395,709. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE CLAROTYPE COMPANY INC., New York, N. Y. Filed Feb. 4, 1942. Serial No. 450,710.

CANT-SLIP

FOR LIQUID PREPARATION USED FOR PREVENTING PAPER FROM SLIPPING WHILE FEEDING OVER THE RUBBER PLATEN ON A TYPEWRITER OR MULTIGRAPH MACHINE.
Claims use since Aug. 14, 1919.

395,710. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) H. D. THOMAS, doing business as The Heyward D. Thomas Company, Piqua, Ohio. Filed Feb. 4, 1942. Serial No. 450,752.

PEERLESS POULTRY PLUCKER

FOR MACHINE FOR REMOVING FEATHERS FROM POULTRY.
Claims use since Aug. 5, 1940.

395,711. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) L. BROWN, St. Paul, Minn. Filed Feb. 25, 1942. Serial No. 451,196.

MINNESOTA CLUB

FOR WHISKIES, BRANDIES, RUMS, GINS, CORDIALS, LIQUEURS, ALCOHOLIC BITTERS, ETHYL ALCOHOL, COCKTAILS.
Claims use since June, 1934.

395,712. (CLASS 12. CONSTRUCTION MATERIALS.) THE OZARK OAK FLOORING CO., INC., Bismarck, Mo. Filed Feb. 27, 1942. Serial No. 451,270.

OZARK BRAND

FOR WOODEN FLOORING.
Claims use since December, 1927.

395,713. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MALT-A-PLENTY, INC., Tulsa, Okla., Birmingham, Ala., Jonesboro and Little Rock, Ark., and elsewhere. Filed Feb. 28, 1942. Under the act of March 19, 1920, as amended June 10, 1938. Serial No. 451,310.

MALT-A-PLENTY

FOR NONALCOHOLIC FOOD BEVERAGES AND A PREPARATION FOR MAKING THE SAME, COMPOSED OF MILK PRODUCTS, SUGARS, GELATINS, AND FLAVORING.
Claims use since Sept. 5, 1938.

395,714. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MALT-A-PLENTY, INC., Tulsa, Okla., Birmingham, Ala., Jonesboro and Little Rock, Ark., and elsewhere. Filed Feb. 28, 1942. Under the act of March 19, 1920, as amended June 10, 1938. Serial No. 451,311.

SHAKE-A-PLENTY

FOR NONALCOHOLIC FOOD BEVERAGES AND A PREPARATION FOR MAKING THE SAME, COMPOSED OF MILK PRODUCTS, SUGARS, GELATINS, AND FLAVORING.
Claims use since Apr. 30, 1940.

395,715. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES OVENDALE, Kellogg, Iowa. Filed Mar. 5, 1942. Serial No. 451,417.

Nu-White

FOR ELECTRO-PLATING COMPOSITIONS.
Claims use since Apr. 12, 1941.

395,716. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) TETOS DEMETRIADES, doing business as Standard Phono Company, New York, N. Y. Filed Mar. 21, 1942. Serial No. 451,800.

STANDARD

STANDARD PHONO COMPANY, N. Y.

FOR PHONOGRAPH RECORDS.
Claims use since Jan. 1, 1941.

TRADE-MARK REGISTRATIONS RENEWED

148,704. **FLORES DEL CAMPO.** TALC AND FACE POWDERS, PERFUMES, HAIR-TONIC, COLOGNES, AND TOILET WATERS. Registered November 22, 1921. PERFUMERIA FLORALIA, S. A., Madrid, Spain, a corporation of Spain. Renewed November 22, 1941.

152,151. **REPRESENTATION OF A RHOMB.** SODA ASH AND CAUSTIC SODA AND MODIFIED FORMS OF EACH OF VARYING ALKALI CONTENT. Registered February 21, 1922. DIAMOND ALKALI COMPANY. Renewed February 21, 1942, to Diamond Alkali Company, Pittsburgh, Pa., a corporation of Delaware, assignee.

154,487. **BEATRICE.** CONDENSED AND POWDERED BUTTERMILK. Registered April 18, 1922. BEATRICE CREAMERY COMPANY. Renewed April 18, 1942, to Beatrice Creamery Company, Chicago, Ill., a corporation of Delaware, assignee.

154,600. **STYLINE.** CORSETS, BRASSIÈRES, CORSET COVERS, AND WAISTS. Registered April 18, 1922. KOPS BROS., New York, N. Y. Renewed April 18, 1942, to The Alden Mills, New Orleans, La., a corporation of Louisiana, assignee by mesne assignments.

155,080. **OHIO.** FEED CUTTERS, ENSILAGE CUTTERS, AND FODDER SHREDDERS. Registered May 16, 1922. THE SILVER MANUFACTURING COMPANY. Renewed May 16, 1942, to E. Mason Wick, doing business as "Silver Manufacturing Company", Salem, Ohio, assignee by mesne assignments.

155,100. **"TROCO" AND REPRESENTATION OF A SWASTIKA.** MINERAL OILS AND GREASES. Registered May 16, 1922. TULSA REFINED OIL COMPANY, Tulsa, Okla., a firm. Renewed May 16, 1942.

155,407. **DU PONT.** CAPS, FUSES, IGNITERS, DETONATING CAPS, SQUIBS FOR IGNITING EXPLOSIVE POWDER AND FLASH-LIGHT POWDER. Registered May 30, 1922. E. I. DU PONT DE NEMOURS & COMPANY. Renewed May 30, 1942, to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware.

155,652. **REPRESENTATION OF "LITTLE BOY BLUE".** BLUING. Registered June 6, 1922. CONDENSED BLUING COMPANY. Renewed June 6, 1942, to The John Puhl Products Company, Chicago, Ill., a corporation of Illinois, assignee.

155,809. **PAR-KERRY.** MEN'S ULSTERS AND OVERCOATS. Registered June 6, 1922. ROSENBERG BROS. & Co. Renewed June 6, 1942, to Fashion Park, Inc., Rochester N. Y., a corporation of New York, assignee by mesne assignments.

155,866. **RECTIGON.** BATTERY CHARGERS. Registered June 6, 1922. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa., a corporation of Pennsylvania. Renewed June 6, 1942.

155,947. **LITTLE BO-PEEP.** AMMONIA. Registered June 13, 1922. THE CONDENSED BLUING CO. Renewed June 13, 1942, to The John Puhl Products Company, Chicago, Ill., a corporation of Illinois, assignee.

156,007. **MARIGOLD.** SOLE LEATHER, UPPER LEATHER, HIDES, AND SKINS. Registered June 13, 1922. MARCUS FORSCHER & Co. Renewed June 13, 1942, to Marcus, Forscher & Co., New York, N. Y., a firm.

156,038. **PAUL BUNYAN.** LUMBER—NAMELY, PINE, FIR, AND CEDAR LUMBER. Registered June 13, 1922. THE RED RIVER LUMBER COMPANY, Minneapolis, Minn., a corporation of Minnesota. Renewed June 13, 1942.

156,039. **"PAUL BUNYAN" AND FANCIFUL PICTURE.** LUMBER—NAMELY, PINE, FIR, AND CEDAR LUMBER. Registered June 13, 1942. THE RED RIVER LUMBER COMPANY, Minneapolis, Minn., a corporation of Minnesota. Renewed June 13, 1942.

156,160. **RID-O-SKID.** ANTISKID CHAINS FOR VEHICLE WHEELS. Registered June 20, 1922. AMERICAN CHAIN COMPANY, INC., New York, N. Y., and Fairfield, Conn. Renewed June 20, 1942, to American Chain & Cable Company, Inc., Bridgeport, Conn., a corporation of New York, by change of name.

156,216. **LITTLE BOY BLUE.** BLUING. Registered June 20, 1922. CONDENSED BLUING COMPANY. Renewed June 20, 1942, to The John Puhl Products Company, Chicago, Ill., a corporation of Illinois, assignee.

156,430. **ORONITE.** OIL OF MYRBANE, BENZOL, XYLOL, ETHER, TOLUOL, COSMETIC OIL, AND PETROLATUM. Registered June 20, 1922. STANDARD OIL COMPANY, San Francisco, Calif. Renewed June 20, 1942, to Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif., a corporation of Delaware, assignee.

156,578. **W IN A CIRCLE.** RADIO TELEPHONE AND TELEGRAPH TRANSMITTERS AND RECEIVERS, ANTENNA OUTFITS, HEAD PHONES, LOUD SPEAKERS, TUNERS, AMPLIFIERS, AND DETECTORS. Registered June 7, 1922. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa., a corporation of Pennsylvania. Renewed June 7, 1942.

156,641. **CHAMPION.** CERTAIN MACHINERY FOR BAKERIES. Registered July 11, 1922. CHAMPION MACHINERY CO., Joliet, Ill., a corporation of Illinois. Renewed July 11, 1942.

156,781. **AERIOLA JR.** CERTAIN NAMED RADIO MECHANISM. Registered July 11, 1922. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa., a corporation of Pennsylvania. Renewed July 11, 1942.

157,058. **"FONTAINEMELON" AND REPRESENTATION OF AN ARROW, ETC.** WATCH BLANKS—THAT IS, THE PLATES AND BRIDGES FORMING THE WATCH CASINGS, AND THE UNFINISHED GEARS (STAMPED WHEELS AND PINIONS). Registered July 25, 1922. FABRIQUE D'HORLOGERIE DE FONTAINEMELON S. A., Fontainemelon, Switzerland, a joint-stock company of Switzerland. Renewed July 25, 1942.

157,059. **REPRESENTATION OF AN ARROW, ETC.** WATCH BLANKS—THAT IS, THE PLATES AND BRIDGES FORMING THE WATCH CASINGS AND THE UNFINISHED GEARS (STAMPED WHEELS AND PINIONS). Registered July 25, 1922. FABRIQUE D'HORLOGERIE DE FONTAINEMELON S. A., Fontainemelon, Switzerland, a joint-stock company of Switzerland. Renewed July 25, 1942.

157,704. **MOLLY'O.** CAKES, WAFERS, CRACKERS, AND BISCUITS. Registered August 15, 1922. LOOSE-WILES BISCUIT COMPANY, Long Island City, N. Y., a corporation of New York. Renewed August 15, 1942.

157,882. **PILOT COVER.** COVER PAPER. Registered August 22, 1922. J. W. BUTLER PAPER COMPANY. Renewed August 22, 1942, to Butler Paper Corporations, Chicago, Ill., a corporation of Illinois, assignee.

157,892. **COLORSPUN.** WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE, COMPRISED IN WHOLE OR IN PART OF SILK. Registered August 22, 1922. CHENEY BROTHERS, South Manchester, Conn. Renewed August 22, 1942, to Cheney Brothers, South Manchester, Conn., and New York, N. Y., a corporation of Connecticut.

157,987. **DOMESTIC.** SALT. Registered August 22, 1922. INDEPENDENT SALT COMPANY, New York, N. Y. Renewed August 22, 1942, to International Salt Company, Scranton, Pa., a corporation of New Jersey, assignee.

158,016. **"SCOTCH" AND REPRESENTATION OF A THISTLE.** WOOL OILS AND FULLING AND SCOURING OILS. Registered August 22, 1922. MASURY-YOUNG COMPANY, Boston, Mass. Renewed August 22, 1942, to Masury-Young Company, Charlestown, Mass., a corporation of Massachusetts.

158,018. **B. V. MAY.** MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. Registered August 22, 1922. THE MAY HOSIERY MILLS. Renewed August 22, 1942, to May McEwen Kaiser Company, Burlington, N. C., a corporation of North Carolina, assignee.

158,411. **AJAX.** STATIONARY LAUNDRY TUBS. Registered September 5, 1922. CHICAGO GRANITINE MANUFACTURING COMPANY, Chicago, Ill., a corporation of Illinois. Renewed September 5, 1942.

158,568. **AERIOLA SR.** RADIO TELEPHONE AND TELEGRAPH TRANSMITTERS AND RECEIVERS, AND CERTAIN NAMED PARTS AND ACCESSORIES. Registered September 5, 1922. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa., a corporation of Pennsylvania. Renewed September 5, 1942.

158,608. **RENAMEL.** STAIN VARNISH, VARNISHES, MIXED PAINTS, AND PAINT ENAMELS. Registered September 12, 1922. THE R. A. BECKER VARNISH COMPANY. Renewed September 12, 1942, to The R. A. Becker Company, Cincinnati, Ohio, a corporation of Ohio, by change of name.

158,876. **SAN HYGENE.** MATTRESSES, BOX SPRINGS, BED SPRINGS, AND PILLOWS. Registered September 19, 1922. THE AKRON MATTRESS MANUFACTURING COMPANY. Renewed September 19, 1942, to The San Hygene Upholstery Company, Akron, Ohio, a corporation of Ohio, assignee.

158,877. **"SAN HYGENE" AND REPRESENTATION OF A LABEL.** MATTRESSES, BOX SPRINGS, BED SPRINGS, AND PILLOWS. Registered September 19, 1922. THE AKRON MATTRESS MANUFACTURING COMPANY. Renewed September 19, 1942, to The San Hygene Upholstery Company, Akron, Ohio, a corporation of Ohio, assignee.

158,909. **THE PROGRESSIVE GROCER.** MONTHLY PERIODICAL. Registered September 19, 1922. THE BUTTERICK PUBLISHING COMPANY. Renewed September 19, 1942, to The Butterick Company, Inc., New York, N. Y., a corporation of New York, assignee.

159,120. **HICKORY.** ELASTIC WEBBING AND SHIRRED ELASTIC RIBBON. Registered September 19, 1922. A. STEIN & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed September 19, 1942.

159,121. **HICKORY.** SANITARY APRONS AND SANITARY BELTS. Registered September 19, 1922. A. STEIN & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed September 19, 1942.

159,246. **DIAMOND.** WALL-PAPER CLEANER. Registered September 26, 1922. THE ABSORENE MANUFACTURING COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed September 26, 1942.

159,254. **REPRESENTATION OF TWO HEMISPHERES ON A SHIELD.** CERTAIN STEEL PRODUCTS. Registered September 26, 1922. THE AMERICAN STEEL AND WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio, a corporation of New Jersey. Renewed September 26, 1942.

159,284. **PRUDENCE.** MEATS, HASH, SOUP, BOUILLI, BREAD, VEGETABLES. Registered September 26, 1922. BOSTON FOOD PRODUCTS CO., East Boston, Mass. Renewed September 26, 1942, to Prudence Foods, Inc., Boston, Mass., a corporation of Massachusetts, by change of name.

159,300. **REPRESENTATION OF A BLUE DIAMOND-SHAPED FIGURE.** ALMONDS AND ALMOND MEATS AND CERTAIN NAMED ALMOND FOOD PRODUCTS. Registered September 26, 1922. CALIFORNIA ALMOND GROWERS EXCHANGE, San Francisco, Calif., a corporation of California. Renewed September 26, 1942.

159,301. **BLUE DIAMOND.** ALMONDS AND ALMOND MEATS AND CERTAIN NAMED ALMOND FOOD PRODUCTS. Registered September 26, 1922. CALIFORNIA ALMOND GROWERS EXCHANGE, San Francisco, Calif., a corporation of California. Renewed September 26, 1942.

159,859. **TUCKAWAY.** SAFETY RAZORS. Registered September 26, 1922. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass., a corporation of Delaware. Renewed September 26, 1942.

159,658. **BEACON BLANKETS MAKE WARM FRIENDS.** CERTAIN NAMED BLANKETS, TRAVELING RUGS, AND BLANKET GOODS. Registered October 3, 1922. BEACON MANUFACTURING COMPANY, Providence, R. I. Renewed October 3, 1942, to Beacon Manufacturing Company, Swannanoa, N. C., a corporation of Massachusetts.

159,674. **BURTON.** COMFORTERS. Registered October 3, 1922. BURTON-DIXON CORPORATION. Renewed October 3, 1942, to Burton-Dixon Corporation, Chicago, Ill., a corporation of Delaware, assignee.

159,746. **FANCIFUL PICTURE OF "PAUL BUNYAN".** LUMBER—NAMELY, PINE, FIR, AND CEDAR LUMBER. Registered October 3, 1922. THE RED RIVER LUMBER COMPANY, Minneapolis, Minn., and Westwood, Calif. Renewed October 3, 1942, to The Red River Lumber Company, Minneapolis, Minn., a corporation of Minnesota.

159,848. **CHADWICK'S.** THREAD AND YARN. Registered October 10, 1922. THE CLARK THREAD COMPANY, Newark, N. J., a corporation of New Jersey. Renewed October 10, 1942.

159,887. **NEPTUNE.** LEATHER BELTING. Registered October 10, 1922. THE GRATON & KNIGHT MANUFACTURING COMPANY. Renewed October 10, 1942, to Graton & Knight Company, Worcester, Mass., a corporation of Massachusetts, assignee.

159,922. **KEMP.** GAS APPARATUS AND GAS BURNERS, PARTICULARLY APPARATUS FOR MIXING AIR AND GAS TO FORM FUEL GAS AND BURNERS FOR HEATING PURPOSES. Registered October 10, 1922. THE C. M. KEMP MFG. CO. Renewed October 10, 1942, to The C. M. Kemp Mfg. Company, Baltimore, Md., a corporation of Maryland.

159,938. **SPRA-IT.** GERMICIDE, DISINFECTANT, AND DEODORIZER FOR EXPELLING INSECTS, PARASITES, AND THE LIKE FROM ANIMALS. Registered October 10, 1922. THE LYNDON CHEMICAL COMPANY, Dayton, Ohio, a firm. Renewed October 10, 1942.

159,959. **CONVECTOR.** HOT-AIR FURNACES. Registered October 10, 1922. L. J. MUELLER FURNACE CO. Renewed October 10, 1942, to L. J. Mueller Furnace Company, Milwaukee, Wis., a corporation of Wisconsin.

160,139. **PAIST'S.** GLUE. Registered October 17, 1922. FRANK A. BOYER, doing business as Boyer & Co. Renewed October 17, 1942, to William F. Boyer, doing business as Boyer & Company, Philadelphia, Pa., assignee.

160,145. **BURPEE'S SEEDS GROW.** VEGETABLE SEEDS, FLOWER SEEDS, FIELD SEEDS, BULBS, ROOTS, AND PLANTS. Registered October 17, 1922. W. ATLEE BURPEE CO., Philadelphia, Pa., a corporation of Pennsylvania. Renewed October 17, 1942.

160,187. **ALAMO.** OUTER CLOTHING FOR MEN AND BOYS, CONSISTING OF COATS, VESTS, AND PANTS, OVERALLS, WORK PANTS, AND BRUSH COATS. Registered October 17, 1922. A. B. FRANK COMPANY, San Antonio, Tex., a corporation of Texas. Renewed October 17, 1942.

160,230. **SHAGMOOR.** LADIES' COATS AND SUITS FOR OUTER WEAR. Registered October 17, 1922. LINDER BROS., Scranton, Pa. Renewed October 17, 1942, to Albert A. Linder, Great Neck, Long Island, N. Y., assignee.

160,257. "N E" IN A COMPASS-LIKE DESIGN. TACHOMETERS AND ODOMETERS. Registered October 17, 1922. NORTH EAST ELECTRIC COMPANY, Rochester, N. Y. Renewed October 17, 1942, to General Motors Corporation, Detroit, Mich., a corporation of Delaware, assignee by mesne assignments.

160,258. YEAST FOAM. MEDICINAL VITAMINE PRODUCTS. Registered October 17, 1922. NORTHWESTERN YEAST COMPANY, Chicago, Ill., a corporation of Illinois. Renewed October 17, 1942.

160,266. CRITERION. LADIES' UNDERWEAR. Registered October 17, 1922. THE PARSONS & BAKER CO., Phoenixville, Pa., a corporation of Pennsylvania. Renewed October 17, 1942.

160,282. MULTICELL. ASBESTOS PIPE COVERING. Registered October 17, 1922. SALL MOUNTAIN COMPANY. Renewed October 17, 1942, to Sall Mountain Company, Chicago, Ill., a corporation of Delaware, successor.

160,283. "ROSCO" AND REPRESENTATION OF A STRONG MAN. WASHED SAND AND GRAVEL PROPORTIONED TO SUIT BUILDERS AND USERS. Registered October 17, 1922. ROSOFF SAND & GRAVEL CORP., New York, N. Y., a corporation of New York. Renewed October 17, 1942.

160,286. REPELLO. LIQUID WATERPROOFING COMPOUNDS. Registered October 17, 1922. SCOFIELD, EVANS AND COMPANY, Chicago, Ill. Renewed October 17, 1942, to Scofield, Evans & Company, Philadelphia, Pa., a corporation of Delaware.

160,323. CUTEX. MANICURE SETS AND ABSORBENT COTTON. Registered October 17, 1922. NORTHAM WARREN CORPORATION, New York, N. Y. Renewed October 17, 1942, to Northam Warren Corporation, Stamford, Conn., a corporation of New York.

160,402. ARISTOCRAT. PENCILS. Registered October 24, 1922. BROWN & BIGELOW, St. Paul, Minn., a corporation of Minnesota. Renewed October 24, 1942.

160,411. LOSANT. RUBBER HOSE, BELTING, AND PACKING. Registered October 24, 1922. THE CINCINNATI RUBBER MFG. CO., Norwood, Ohio, a corporation of Ohio. Renewed October 24, 1942.

160,413. "DE LUXE". ICE CREAM. Registered October 24, 1922. THE CITY DAIRIES COMPANY, St. Louis, Mo. Renewed October 24, 1942, by The Borden Company, New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

160,422. PUROCK. HYDRATED AND QUICK LIME. Registered October 24, 1922. COMMERCIAL LIME COMPANY, Ocala, Fla., a corporation of Florida. Renewed October 24, 1942.

160,466. REPRESENTATION OF A RED LABEL. PENS AND FOUNTAIN PENS. Registered October 24, 1922. THE ESTERBROOK STEEL PEN MANUFACTURING COMPANY, Camden, N. J., a corporation of New Jersey. Renewed October 24, 1942.

160,525. DEPENDABLE. LEATHER BELTING. Registered October 24, 1922. HIMMELRIN & BAILEY, Philadelphia, Pa. Renewed October 24, 1942, to Himmelein & Bailey, Inc., Camden, N. J., a corporation of New Jersey, assignee.

160,658. PLANER-BELT. LEATHER BELTING. Registered October 24, 1922. CHAS. A. SCHIEREN COMPANY, New York, N. Y., a corporation of New York. Renewed October 24, 1942.

160,676. RED SEAL. WAX AND CHALK CRAYONS. Registered October 24, 1922. STANDARD CRAYON MANUFACTURING CO. Renewed October 24, 1942, to The Standard Crayon Manufacturing Corporation, Danvers, Mass., a corporation of Massachusetts, by change of name.

160,677. VELASQUEZ. WAX AND CHALK CRAYONS. Registered October 24, 1922. STANDARD CRAYON MANUFACTURING CO. Renewed October 24, 1942, to The Standard Crayon Manufacturing Corporation, Danvers, Mass., a corporation of Massachusetts, by change of name.

160,743. REPRESENTATION OF A SHIELD-LIKE DESIGN. VEHICLE AXLES. Registered October 24, 1922. WISCONSIN PARTS COMPANY, Oshkosh, Wis. Renewed October 24, 1942, to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio, assignee.

REISSUES

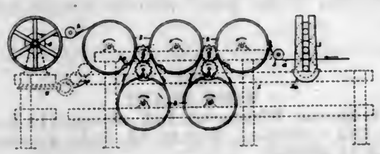
JUNE 2, 1942

22,104
ART OF SIZING WARPS

William Harris, Paterson, N. J.

Original No. 2,263,547, dated November 18, 1941, Serial No. 276,372, May 29, 1939. Application for reissue November 25, 1941, Serial No. 420,498

4 Claims. (Cl. 28—28)



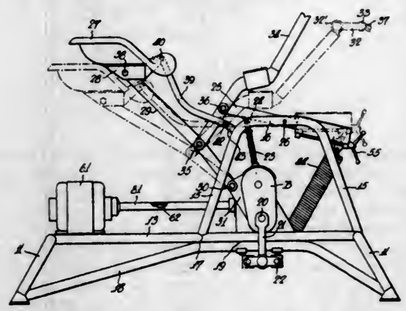
1. The method of treating a warp of the class set forth which consists in directing the warp lengthwise of itself and meanwhile wetting it with a sizing solution and, at several successive points within a heated drying zone, supporting the warp within and at such several points also tractively impelling the same in substantially completely exposed state through said zone at such different speeds that at each of said points which succeeds another the speed will be constant but slower than at the next preceding point and the warp-carried liquid of the solution will be substantially completely dispelled when the warp attains in its travel the last of said successive points.

22,105
EXERCISING MACHINE

Harold J. Marlowe, New York, N. Y., assignor to Exercycle Corporation, a corporation of Delaware

Original No. 2,107,449, dated February 8, 1938, Serial No. 53,124, December 6, 1935. Application for reissue March 26, 1942, Serial No. 436,382

34 Claims. (Cl. 128—33)



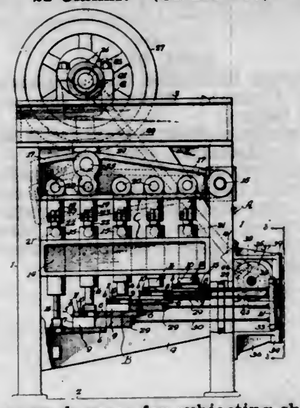
1. An exercising machine, comprising a support base, a handle member, a seat member, and pedal cranks on said suport, an electric motor having a speed reducing connection for propelling said cranks and a speed reducing driving linkage between said motor, said handle member and said seat member, to move the latter two members alternately toward and away from each other.

22,106
PUNCH PRESS FOR FORMING SHEET METAL SHELLS

Miller A. McCreary, Danville, Ill., assignor to The Hegeler Zinc Company, Danville, Ill., a corporation of Illinois

Original No. 1,935,854, dated November 21, 1933, Serial No. 572,645, November 2, 1931. Application for reissue April 21, 1939, Serial No. 269,292

21 Claims. (Cl. 113—38)



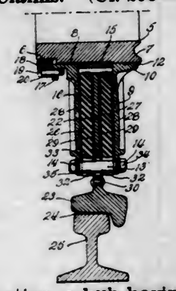
7. In a punch press for subjecting sheet metal blanks to successive drawing operations, the combination of a frame, correlated punch and die assemblies comprising a plurality of punches and dies supported on said frame in spaced relation to each other, respectively, the punch assembly comprising plungers to which different punches are secured, and means for simultaneously imparting reciprocating strokes of different lengths to said plungers and punches.

22,107
WHEEL

Robert J. Burrows and Alfred O. Williams, Battle Creek, Mich., assignors to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan

Original No. 2,167,633, dated August 1, 1939, Serial No. 89,927, July 10, 1936. Application for reissue December 20, 1940, Serial No. 371,028

23 Claims. (Cl. 295—11)



1. In combination, a hub having an outwardly directed radially extending channel, a tread member having a radially inwardly directed

flange disposed within said channel, resilient cushioning rings disposed between the inner radial faces of said channel and the opposite radial surfaces of said flange each having side plates vulcanized thereto and engaging said faces and surfaces, one plate of each ring extending radially outwardly beyond the ring and secured to said flange of said tread member, means engaging said hub for exerting an axial compressive force at the inner end of said channel, and stud means about the radial outer periphery of said channel for exerting an axial compressive force about said periphery whereby uniform lateral compression of said rings is secured and for clamping the other plate of each ring to the outer periphery of said channel.

PLANT PATENTS

GRANTED JUNE 2, 1942

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

525
ROSE PLANT
Roy L. Byrum, Richmond, Ind., assignor to Joseph H. Hill Company, Richmond, Ind., a corporation of Indiana
Application November 15, 1941, Serial No. 419,350
1 Claim. (Cl. 47—61)

A new and distinct variety of hybrid tea rose, characterized as to novelty by the color combination of its blossoms, its great productiveness, the growth of single blossoms on strong, long stems, and its disease resistance, substantially as shown and described.

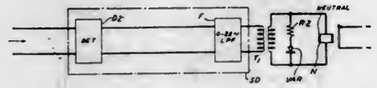
526
ROSE PLANT
Roy L. Byrum, Richmond, Ind., assignor to Joseph H. Hill Company, Richmond, Ind., a corporation of Indiana
Application December 2, 1941, Serial No. 421,358
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant, characterized as to novelty by its great productivity in the class of greenhouse forcing roses, the large size and number of petals of the bloom, and the unusual color combination of said bloom, substantially as shown and described.

PATENTS

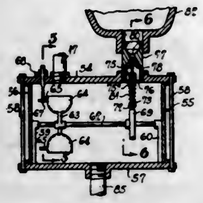
GRANTED JUNE 2, 1942

2,284,617
RELAY SWITCHING CIRCUITS
Harold L. Barney, Leonia, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 22, 1940, Serial No. 362,197
2 Claims. (Cl. 178—44)



1. In combination, a syllabic detector having an input circuit supplied with speech currents, and an output circuit, a single neutral relay having an operating winding coupled to said output circuit, means for suppressing the direct current component of the syllabic detector output current from said winding, said relay being operatively responsive in the same direction to the positive and negative portions of the syllabic current in said detector output circuit and a circuit including a unilateral device and an impedance of suitable value shunted across said operating winding to make the operation of said relay less sensitive to a desired degree to either the initial or final part of a syllable of said speech currents, depending on the poling of said unilateral device.

2,284,618
WATER TREATING APPARATUS
Andrew J. Chesson, Miami, Fla.
Application April 6, 1939, Serial No. 266,284
1 Claim. (Cl. 210—19)



Apparatus for feeding a treating liquid to water passing through a main, comprising a casing, a by-pass pipe leading from the main to the top of said casing, a pipe leading from the bottom of said casing back into the main, a horizontally disposed shaft in said casing, a plurality of spokes projecting from said shaft, a cup disposed on the end of each of the spokes, a resilient stop for arresting a cup directly below the end of the by-pass pipe so that water will fall by gravity thereinto, a source of treating liquid having a piped connection with the casing, a valve normally preventing flow of the treating liquid into the casing from said source, a cam on said shaft for opening said valve when a cup has been filled to a predetermined extent by water falling thereinto from said by-pass pipe to move the cup past the resilient stop to rotate said shaft a partial revolution until the next cup is arrested by said stop.

2,284,619
WELDING FLUX
Perez Epstein, Philadelphia, Pa.
No Drawing. Application September 14, 1939, Serial No. 294,854
1 Claim. (Cl. 148—26)

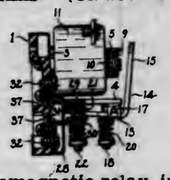
A flux for welding copper comprising a heterogeneous mixture of borax 36% by weight, sodium acid fluoride 23% by weight, sodium silico fluoride 19% by weight, antimony fluoride 1% by weight, phosphoric acid 13% by weight, and trisodium phosphate 8% by weight.

2,284,620
SHOE
Bennett Jayne, New York, N. Y., assignor of one-half to Dominick Calderazzo, Dolgeville, N. Y.
Application July 15, 1939, Serial No. 284,571
8 Claims. (Cl. 36—14)



1. In a shoe construction, the combination of an inner sole, an outer sole, an upper and a welt attached to said upper along a line spaced from the bottom edge of said upper and disposed above the said outer sole, said welt having a portion thereof interposed between said inner and outer soles for permanently attaching said upper to said shoe, the lower portion of the upper freely overhanging said outer sole.

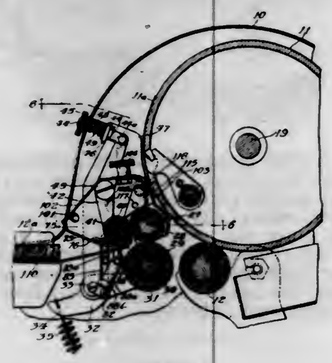
2,284,621
ELECTROMAGNETIC RELAY
Clarence W. Kuhn, Wauwatosa, Theodore F. Rosing, Whitefish Bay, and William C. Stevens, Milwaukee, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application May 4, 1939, Serial No. 271,730
8 Claims. (Cl. 200—87)



4. In an electromagnetic relay, in combination, a magnet core, an energizing coil surrounding said core, an L-shaped magnet frame partially surrounding said coil and affording a support for said core and forming therewith a magnetic circuit having an air gap, an armature bridging said air gap, said armature comprising a rolled bimetallic strip including a layer of ferromagnetic material and a layer of non-magnetic material welded integrally to the former and facing said core, a downwardly opening pivotal bearing for said armature attached to the lower surface of

the horizontal portion of said frame and providing for oscillation of said armature relatively to said frame, biasing means including a coiled compression spring acting to bias said armature away from said core and to maintain contact between said armature and said bearing, a stationary contact, a movable contact adapted to engage said stationary contact, a stationary post rigidly attached to and depending from the horizontal portion of said frame upon which said movable contact is slidably mounted, means providing a positive driving connection between said movable contact and said armature in one direction of movement of the latter, and means providing a resilient driving connection between said parts in the opposite direction of movement of said armature, said last mentioned means including a coiled compression spring underlying said armature and said movable contact.

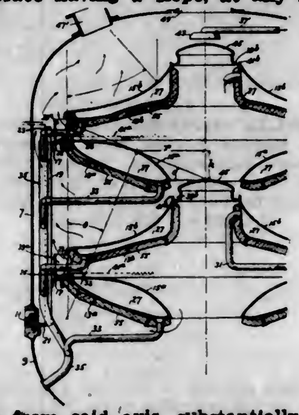
2,284,622
MOISTENING APPARATUS
Robert F. Morrison, Oak Park, Ill., assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia
Application July 17, 1939, Serial No. 284,947
2 Claims. (Cl. 91—50)



2. In a duplicating machine, the combination of a resilient roller rotatably mounted in position and having its end portions impregnated with graphite, a second resilient roller contacting said first-named roller, a third roller in contact with said second roller so as to be driven by frictional engagement therewith for advancing copy sheets between said second and third rollers, means for delivering solvent into the bight between said first-named and said second rollers above their line of contact as said rollers rotate, and wiper means engaging the ends of said first-named and said second rollers for preventing the accumulation of solvent on the ends of said first-named roller.

2,284,623
VAPORIZER
Walter Samans, Philadelphia, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application October 13, 1939, Serial No. 299,288
9 Claims. (Cl. 196—128)

1. In a vaporizer in which liquid to be vaporized is flowed in a thin stream over a heated vaporizing surface, the improvement which comprises a vaporizing surface positioned symmetrically about a vertical axis within said vaporizer, said surface having a slope, at any horizontal



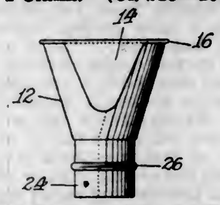
distance from said axis, substantially inversely proportional to the square of said distance.

2,284,624
FABRICATED STRUCTURE FOR BICYCLE FRAMES OR THE LIKE
Frank W. Schwinn, Chicago, Ill.
Application May 20, 1939, Serial No. 274,682
2 Claims. (Cl. 287—54)



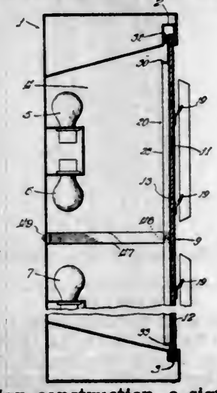
1. As a new article of manufacture, a pair of tubes joined by welding, one of the tubes having a boss pressed out of a wall thereof, the boss having a substantially planiform end wall of cylindrical cross-sectional shape, and a second tube having an open end of cylindrical cross-section corresponding in size and shape to the end wall of said boss, said second tube being welded throughout its periphery to the first tube with said open tube end in registering position with the boss end wall, the planiform end wall of the boss comprising a transverse web reinforcing the second tube wall and the side wall of the boss in the plane of the weld.

2,284,625
BOTTLE ATTACHMENT
Raymond B. Smith and John H. Norman, Elmhurst, Ill.
Application October 16, 1939, Serial No. 299,692
1 Claim. (Cl. 215—100)



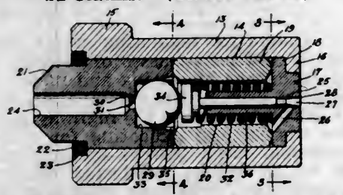
A drinking attachment for bottles, comprising a cup-shaped main portion, and integral means on said portion for temporarily attaching the same to the neck of a bottle, the main portion being in the form of a frustrum of a cone, and the attaching means comprising a sleeve-like extension and an integral annular liquid sealing ridge on the extension on the outer face thereof and at approximately its middle.

2,284,626
SIGN
Benjamin H. Adler, Chicago, Ill.
Application March 23, 1939, Serial No. 263,704
5 Claims. (Cl. 40—140)



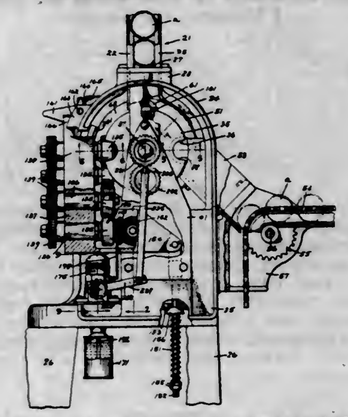
1. In a sign construction, a sign box having a panel receiving opening therein, a light source within said box, a plurality of adjacent panels mounted in said opening and each comprising a frame, a sheet therein, said frame including sign letter supporting cross bars in front of said sheet, means on the vertical sides of adjacent frames and at the rear thereof cooperating to block the passage of light between panels, and cross-ties extending from the rear of said box to said means to hold a plurality of panels in vertical alignment.

2,284,627
NOZZLE
Carroll R. Alden, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application July 6, 1937, Serial No. 152,074
21 Claims. (Cl. 299—107.6)



1. In a fuel injection nozzle, in combination, a nozzle body having a fuel inlet passage and restricted orifice discharge means, a valve for controlling the supply of fuel from said passage to said discharge means and opening in the direction of fuel flow, spring means tending to seat said valve, said valve having an opening pressure area exposed to the pressure of said fuel and acting in opposition to said spring means, and means defining a constantly open flow restriction in series with said valve in the path of fuel flow to said discharge means and immediately effective in the initial opening movement of said valve to produce a pressure drop and having a lifting pressure area larger than said opening pressure area exposed to the differential pressure set up by said restriction upon the flow of fuel through said valve and acting in opposition to said spring means to provide a valve opening assistance.

2,284,628
CAN MARKING MACHINE
August E. Almgren, Hillside, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application October 11, 1938, Serial No. 234,479
12 Claims. (Cl. 101—44)



1. In a machine for marking cans and the like, the combination of a frame, a rotatable can turret mounted in said frame and having a plurality of pockets for receiving and for carrying cans along a predetermined path of travel, a plurality of marking heads disposed adjacent said can turret and movable in timed relation therewith, there being one head for each pocket of said turret, said head being in axial alignment with its pocket, axially movable means carried by each of said marking heads and cooperating therewith for engaging and clamping a can to be marked against movement relative to said carrier, actuating means for axially shifting each head in timed relation into marking engagement with the can in its turret pocket, an inking roller disposed in the path of travel of said heads as they move with said turret, and means for bringing each head as it approaches said roller into engagement therewith for receiving an application of ink therefrom prior to its engagement with a can to be marked.

2,284,629
METHOD OF NICKEL PLATING
Edwin M. Baker, Ann Arbor, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
No Drawing. Application December 19, 1938, Serial No. 246,677
2 Claims. (Cl. 204—49)

1. The method of electrodepositing a ductile, adherent, lustrous nickel, which comprises passing an electric current to the work to be plated as a cathode through a solution having a pH between 2.5 and 5.5 and consisting essentially of from 240 to 300 g./l. of nickel sulfate and from 35 to 50 g./l. of nickel chloride as the nickel plating salts and of sodium formate, said sodium formate being present in an amount equal to between 1 g./l. and the saturation point of sodium formate in said solution, maintaining said solution at a temperature between 90° and 190° F.,

the temperature being higher as the pH is numerically lower, and maintaining the composition and pH of said solution within the ranges given above.

2,284,630
COMPOSITE OPTICAL CARRIER
Lillian Banks, New York, N. Y., assignor of one-third to Charles M. Palmer, Washington, D. C., and one-third to John Richard Iander, Brooklyn, N. Y.
Application May 31, 1940, Serial No. 338,263
9 Claims. (Cl. 88—41)



1. In combination, a mount comprising spaced rims and a hollow bridge interconnecting said rims, swingable arms carried by said rims, a carrier comprising spaced lenses removably receivable in said rims, a sensibly resilient spring removably receivable in said bridge and resiliently sustaining said lenses in said rims whereby said carrier yieldingly abuts said rims, and means for removably locking said carrier to said rims.

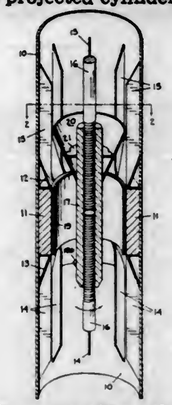
2,284,631
METHOD AND APPARATUS FOR SEALING CONTAINERS
William D. Bell, Columbus, Ohio, assignor to Anchor Hocking Glass Corporation, Lancaster, Ohio, a corporation of Delaware
Application March 22, 1940, Serial No. 325,393
12 Claims. (Cl. 226—82)



1. A method of closing and sealing a container which comprises providing a closure member in spaced relationship to the container, supplying a charge of combustible gas into the container so that it will mix with the air therein, igniting the combustible gas and air mixture so produced, and sealing the closure member on the container.

2,284,632
CENTRIFUGAL PUMP
John R. Betts, Aurora, Nebr.
Application May 31, 1939, Serial No. 276,657
8 Claims. (Cl. 103—90)

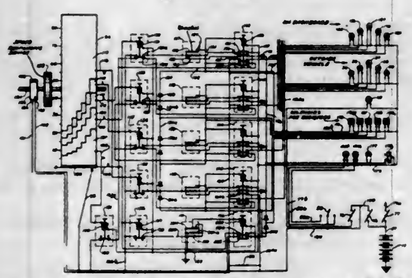
4. A pump including a well casing having a water lubricated bearing secured to the inner side thereof, an impeller including a cylindrical casing having a plurality of impeller blades therewithin, said impeller being journalled in said bearing, stationary means above said bearing for guiding the upward flow of water above said bearing, and means including a cone shaped deflector disposed above said impeller and rotatable therewith, the lowermost point of said cone shaped deflector being immediately above the upper end of said cylindrical impeller casing, said means including said cone shaped deflector acting to direct the water upwardly and outwardly from the projected cylinder of rotation of



said impeller into cooperative relation with said guiding means.

2,284,633
METHOD OF AND MEANS FOR CONTROLLING VEHICULAR TRAFFIC
Lester L. Bosch, Cincinnati, Ohio
Application May 20, 1938, Serial No. 208,959½
7 Claims. (Cl. 177—311.5)





1. In a system for regulating over a highway the speed of different classes of vehicles under different conditions of driving and under different classes of drivers, the combination of indicating means arranged on the highway in different zones thereof and indicating for each zone the permissible speed therein for a preselected class of traffic under preselected drivers and driving conditions, indicating means on the vehicles capable of giving variable indications corresponding to the different highway indicating means and thereby indicating whether or not a vehicle complies with said highway indicating means, and means controlled by the substantial cessation of the speed of the vehicle for causing said second mentioned indicating means to display a legal stop signal for a predetermined interval of time.

2,284,634
PNEUMATIC PISTON PUMP, DIFFERENTIAL TYPE
Alexander Boynton, San Antonio, Tex.
Application January 31, 1939, Serial No. 253,874
11 Claims. (Cl. 103—234)

1. In combination, a flow tube, a liquid inlet for

passage of liquid axially of the flow tube including a valve member extending transversely of the tube, a projection on said member, a passage in said member, said passage terminating in outwardly opening ports in said projection, a second valve member surrounding said projection



adapted to move longitudinally thereof to open and close said ports, an air inlet from the exterior to the interior of the tube above said liquid inlet, and means responsive to gaseous fluid pressure about the flow tube to move said second valve member longitudinally of the flow tube.

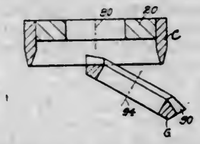
2,284,635
STAPLE FIBER PREPARATION
Nelson Stuart Cambell, Brookline, Mass.
Application June 14, 1940, Serial No. 340,415
In France September 9, 1939
19 Claims. (Cl. 57—1)



1. A step in the method of handling fibers to form a sliver which consists in feeding the fibers continuously and while so feeding imparting to the fibers, a first stage of false twist, arresting and holding the twist placed in the fiber during forward movement and then subsequently imparting to the fiber a further false twist in the same direction.

2,284,636
METHOD OF AND APPARATUS FOR CUTTING GEARS
Leonard O. Carlsen, Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y., a corporation of New York
Application March 10, 1937, Serial No. 130,139
13 Claims. (Cl. 90—5)

1. The method of cutting a gear which comprises employing a face-mill gear cutter which has two groups of blades arranged, one following the other, part-way around its periphery to cut, respectively, opposite tooth sides of a gear and which has a gap between the last and first blades, rotating said cutter in engagement with a gear blank, effecting relative movement between the cutter and blank between operations of the two groups of blades so that the cutter will cut relatively from different centers during operation of the two groups of blades and indexing the blank when the gap in the cutter is abreast of the blank.

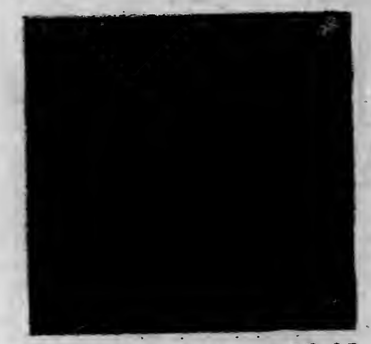


6. In a machine for producing gears having a work support and a cutting tool in the form of a face-mill gear cutter whose cutting blades are arranged in two groups part-way around its periphery with a gap between the last blade of each group and the first blade of the other group, means for shifting the cutter and blank relative to one another when the first gap is abreast of the blank so that the two groups of blades cut relatively from different centers as they pass through a tooth space of the blank, and means for indexing the blank without relative separation of cutter and blank when the second gap is abreast of the blank.

2,284,637
POLYMERIC CARBAMATES AND THEIR PREPARATION
Willard E. Catlin, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 29, 1938, Serial No. 232,467
13 Claims. (Cl. 260—2)

1. A process for making synthetic linear polymers which comprises heating to reaction temperature substantially equimolecular proportions of a substance of the class consisting of bifunctional diisocyanates and diisothiocyanates, and a bifunctional diol of the class consisting of dihydric alcohols, dihydric phenols, and dithiols.

2,284,638
METALLURGY OF FERROUS METALS
Frances H. Clark, New York, and Robert F. Dirkes, Jamaica, N. Y.
Application August 20, 1938, Serial No. 225,844
8 Claims. (Cl. 75—22)



MARTENSITE STRUCTURE OF HARDENED STEEL PRODUCED FROM SINTERED POWDERS

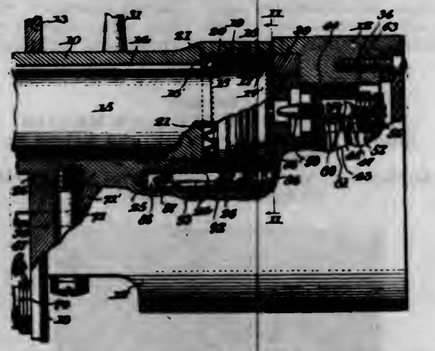
1. The method of making a hardenable carbon steel which comprises producing a mixture of

powdered iron and powdered iron carbide, the mixture being substantially free of uncombined carbon and the iron carbide being present in the mixture in a sufficient quantity to impart hardening characteristics to the steel produced, pressing said mixture to render it coherent, heating the mixture in an atmosphere which is substantially non-oxidizing, to above the critical temperature for the particular composition and continuing the heating for a period sufficient to cause sintering of the powdered materials and substantial diffusion of the iron carbide through the same.

2,284,639
COPOLYMER CONTAINING ETHYLIDENE DIACRYLATE OR DIMETHACRYLATE
Loring Coes, Jr., Brookfield, Mass., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 8, 1938, Serial No. 239,533
5 Claims. (Cl. 260—84)

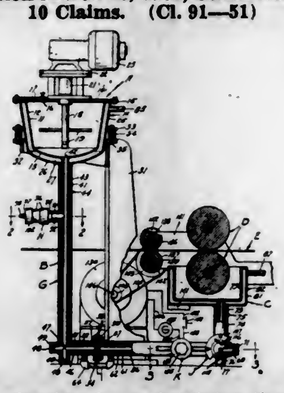
1. A polymerized substance comprising the product of polymerization of a plurality of polymerizable materials including an ester of a monohydric alcohol and an acid selected from the group of the acrylic and methacrylic acids copolymerized with a substance selected from the group consisting of styrene and the nitro-styrenes and with an ester of the hypothetical ethylidene glycol and one of said acids.

2,284,640
BREECH MECHANISM FOR POWER GENERATING UNITS
Roscoe A. Coffman, Hollywood, Calif.
Application November 24, 1937, Serial No. 176,371
13 Claims. (Cl. 89—1)



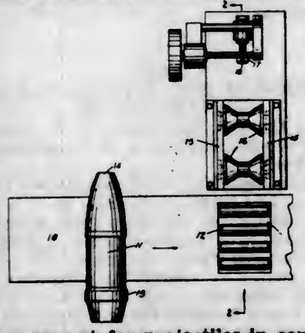
1. A device for igniting a projectile free combustible charge comprising a barrel forming part of a closed system and adapted to hold a cartridge containing a combustible charge, a sealing sleeve positioned within said barrel and surrounding the base end of said cartridge where it contacts therewith, a breech block adapted to close one end of said barrel and bear against the base of the cartridge contained within the barrel, and means for firing said cartridge within the barrel to produce pressure gases operative within the closed system for performing a useful work operation, the pressure contained within said barrel and system serving to move said sleeve rearwardly in sealing relation with the cartridge to prevent leakage of the generated gases around the cartridge through the closed end of said barrel.

2,284,641
HEATING AND CONVEYING MECHANISM
Herbert F. Cox, Jr., Madison, N. J., and Howard M. Hill, Bayside, N. Y., assignors to American Can Company, New York, N. Y., a corporation of New Jersey
Application March 15, 1938, Serial No. 196,090
10 Claims. (Cl. 91—51)



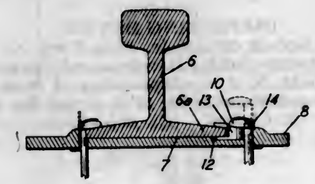
1. A mechanism for maintaining thermoplastic adhesive in liquid form and at a predetermined temperature while conveying it to a point of application, comprising in combination a supply tank for the adhesive, a reservoir for receiving said adhesive, a pipe line connecting said supply tank with said reservoir, heating jackets disposed exteriorly of said supply tank, said pipe line and said reservoir and providing an enclosing space for the circulation of a fluid heating medium to maintain said adhesive at a predetermined temperature, devices in said reservoir for successively removing adhesive therefrom during its application to a surface, an axially reciprocable cut-off valve in said pipe line, means for closing said cut-off valve to stop the flow of adhesive between said supply tank and said reservoir when said reservoir adhesive removing devices stop operation, and fluid pressure means normally maintaining said cut-off valve in open position.

2,284,642
SUPPORT FOR PROJECTILES
Francis H. Denner, Dover, N. J.
Application June 25, 1940, Serial No. 342,272
3 Claims. (Cl. 90—21)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a support for projectiles in combination, a work table arranged for movement of a projectile thereon transversely of its axis, a plurality of rollers journaled in the table with their axes disposed in parallelism with the direction of said transverse movement adapted to receive and convey a projectile longitudinally of its axis, a plurality of conveyor rollers disposed on one side of said work table in alignment with said work table rollers adapted to receive a projectile from the latter for continued axial movement, a stop supporting member provided forwardly of said conveyor rollers in alignment therewith, and a longitudinally movable stop mounted on said stop supporting member arranged to be engaged by and support the nose of said projectile for limiting axial movement thereof on said conveyor rollers.

2,284,643
RAIL FASTENING
John T. Doyle, Dwyer, Wyo., assignor of two-fifths to Edward W. Heintselman, Dwyer, Wyo.
Application April 15, 1940, Serial No. 329,713
5 Claims. (Cl. 238—364)



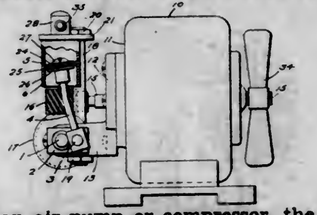
1. A rail fastening comprising a tie plate having a recess for a rail base and an arcuate recess adjacent and open to said rail base recess, and having a perforation for a spike adjacent and contiguous to said arcuate recess, a clip corresponding in shape and size to said arcuate recess and fitted thereinto for limited relative horizontal angular movement, said clip having vertical rail-base-engaging serrations in curved horizontal formation and having horizontally extending vertically spaced flanges above and below said serrations for engaging the base of the rail, and a spike driven through said perforation in the tie plate in wedging engagement with said clip and forcing the serrations of said clip into contact with the base of a rail on the plate.

2,284,644
ELECTRIC SWITCH
William Dubilier, New York, N. Y.
Application January 19, 1939, Serial No. 251,746
2 Claims. (Cl. 200—67)



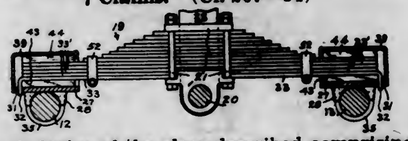
1. In a switch of the character described, the combination of a biased leaf spring having a conductive element at one end, a ceramic casing having, crosswise, a U-shaped section and lengthwise an upstanding end wall at one end providing a surface for positioning the other end of the leaf spring to be clamped, a contact plate, arranged adjacent the conductive end of the spring for making electrical contact therewith, said plate being mounted at the other lengthwise end of said casing, and an insulating cover fitted lengthwise within said casing covering the open side thereof and having clamping elements at either end, clamping at one end said leaf spring and at the other end said contact plate.

2,284,645
AIR PUMP OR COMPRESSOR
Charles Hugh Duffy, Miami, Fla.
Application January 27, 1941, Serial No. 376,120
13 Claims. (Cl. 230—190)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



5. In an air-pump or compressor, the combination with an electric motor having a worm on its shaft, a worm wheel meshing with said worm, a driven shaft upon which said worm wheel is fixed, a bracket fixed on the motor casing for mounting the driven shaft, of posts mounted on the bracket, a cylinder-head-plate mounted on the outer ends of the posts, a pair of pump cylinders fixed on the cylinder-head-plate, a crank fixed to each end of the driven shaft, each crank including a crank-pin, a piston rod mounted on each crank-pin, a piston rigidly fixed on the upper end of each piston-rod and disposed for operation in the said pump cylinders, a discharge port and check valve for each pump cylinder, the latter preventing return of air back through the discharge port into the pump cylinder, the transverse plane of each piston being tilted with respect to the transverse plane of its cylinder to a lesser extent during its inward or working stroke than during its outward or intake stroke for the purposes described.

2,284,646
CONFINED SPRING MOUNTING MEANS
Roy M. Eidal, Seattle, Wash.
Application July 31, 1940, Serial No. 348,950
7 Claims. (Cl. 267—54)

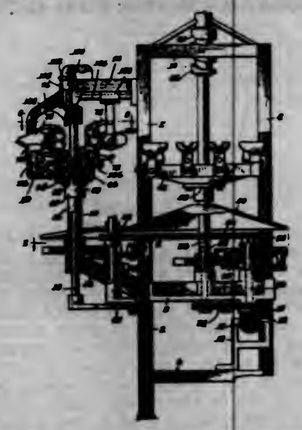


1. A device of the class described comprising a base plate provided with an opening therein; rubber cushioning means disposed on said base plate; leaf spring means disposed on said rubber cushioning means and provided with a downwardly extending end portion projecting into said opening in said base plate; rubber cushioning means disposed on said leaf spring means; and housing means connected to said base plate and extending over said last mentioned rubber cushioning means, thereby flexibly anchoring said leaf spring means to said plate means.

2,284,647
FRUIT FEEDING APPARATUS
Raymond L. Ewald, Olympia, Wash., assignor to Special Equipment Company, Portland, Oreg., a corporation of Oregon
Application May 10, 1938, Serial No. 207,038
31 Claims. (Cl. 146—51)

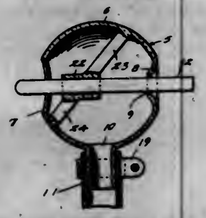
1. In combination, fruit holding means comprising cooperative cup sections relatively movable and adapted to receive and position thereon

a whole fruit, at least one of said cup sections having an opening in its base, additional fruit holding means comprising fruit gripping members adapted to be positioned directly over and under the fruit while resting in the cup, means for closing the gripping members into contact



with the fruit, one of said members passing through the opening in the base of said cup section, and means for shifting said gripping members away from said cup sections and for relatively shifting said cup sections to permit movement of the fruit by said gripping members.

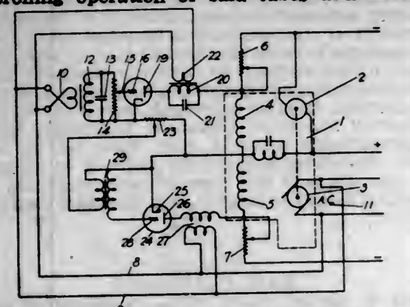
2,284,648
ELECTRIC WELDING APPARATUS
Walter T. Foreman, Petersburg, Va.
Application April 7, 1941, Serial No. 387,296
4 Claims. (Cl. 219—8)



1. A shield for a welding stick comprising a hollow tinted substantially transparent globular body, an inwardly projecting substantially frusto-conical stick guide integral with said body, said body having an opening spaced from and coaxial with said guide, a supporting guide sleeve for the stick suspended within said body, and a coupling stem extended from said body.

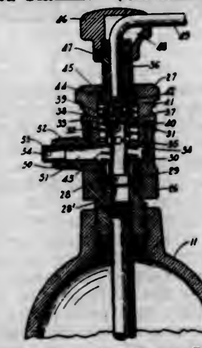
2,284,649
ELECTRICAL CONTROL APPARATUS
William Christian Grabau, Brighton, Mass., assignor to Submarine Signal Company, Boston, Mass., a corporation of Maine
Application January 28, 1941, Serial No. 376,303
9 Claims. (Cl. 171—119)

1. Means for maintaining frequency and voltage of a motor generator having field windings, constant under varying operating conditions, comprising a pair of gaseous conducting tubes connected in shunt with said windings and means comprising tuned circuits tuned to frequencies off the operating frequency of the generator for controlling operation of said tubes and means



for impressing said generator frequency and voltage upon said tuned circuits.

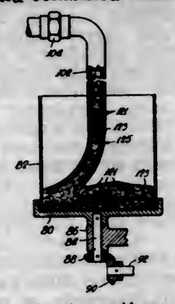
2,284,650
DISPENSING DEVICE
Harry Campbell Grant, Jr., New York, N. Y., assignor to Specialties Development Corporation, Bloomfield, N. J., a corporation of New Jersey
Application December 24, 1937, Serial No. 181,561
21 Claims. (Cl. 221—73.5)



1. In a control device for a fluid medium confined in a container under pressure, a chambered body member having a passage for communication with the container and provided with a frangible closure for the passage and with an outlet for the fluid medium, supporting means disposed in said body chamber, a cutter attached to said supporting means, and means to forcibly detach the cutter from said supporting means and propel it toward and through the frangible closure to effect release of the fluid medium.

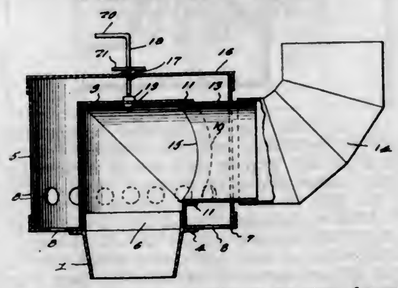
2,284,651
METHOD OF AND APPARATUS FOR MAKING A VARIEGATED ICE CREAM OR SIMILAR SUBSTANCE
George P. Gundlach, Cincinnati, Ohio, and Byron Morris, Tuscaloosa, Ala., assignors to Joe Lowe Corporation, New York, N. Y., a corporation of Delaware
Application April 10, 1940, Serial No. 328,826
5 Claims. (Cl. 107—54)

1. A method of making a bulk composite edible product which comprises bringing a basic edible semi-fluid substance and a contrasting immiscible semi-fluid flavoring material together by means of a common source of pressure, extruding said substances together as a unitary product whereby the flavoring material is distributed throughout the basic substance in a plurality of spaced ribbons or strips, and then breaking up said combined semi-fluid substances



into relatively short sections which are discharged or folded over one another to prevent separation from one another in the final product.

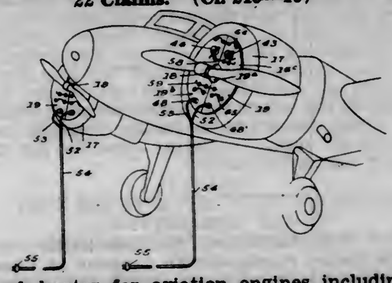
2,284,652
DRAFT CONTROL
Algot Gustafson, Hazel, S. Dak.; by decree of distribution one-half to Tena Gustafson and one-half to Le Roy Gustafson, heirs of Algot Gustafson, deceased
Application May 7, 1940, Serial No. 333,830
2 Claims. (Cl. 110—147)



1. A draft control of the character described comprising a coupling member connected with a heating plant, a drum mounted on said member and having air intake openings therein, said member including a neck projecting into the drum, a stationary flue section extending radially through a wall of the drum and communicating therewith, an elbow rotatably mounted in the drum on the neck and communicating with the heating plant through the member, said elbow being connectible, upon rotation in one direction, directly with the flue section for establishing communication between said section and the heating plant and for shutting said flue section off from the drum, and means for rotating the elbow.

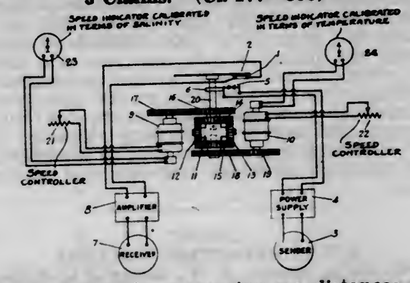
2. A draft control of the character described comprising a drum for mounting on a heating plant, said drum having air intake openings therein, an elbow rotatably mounted in the drum and communicating with the heating plant, a stationary flue section mounted in the drum and communicating therewith, said flue section and said elbow having interengaging biased ends for establishing communication between said flue section and the heating plant, the biased end portion of the elbow having notches therein and including comparatively large and small portions on opposite sides of the notches engageable on and in the flue section, and means for rotating the elbow.

2,284,653
ENGINE HEATER
Paul F. Hackethal, Baltimore, Md.
Application February 20, 1940, Serial No. 319,957
22 Claims. (Cl. 219—19)



1. A heater for aviation engines including a closure for the front opening of the engine cowling, the closure having a central opening to accommodate the hub of the propeller and comprising separable sections adapted to be detachably secured to the cowling, the sections having a contour normally set to conform to the opening to be covered, and electrical heating means fixedly mounted on one of the closure sections at the inner side thereof to extend within the cowling when the closure is attached thereto.

2,284,654
DISTANCE AND DEPTH MEASURING SYSTEM
Bertram M. Harrison, Newton Highlands, Mass., assignor to Submarine Signal Company, Boston, Mass., a corporation of Maine
Application October 20, 1938, Serial No. 236,041
3 Claims. (Cl. 177—386)



1. Apparatus for measuring sea distances and depths under water comprising a rotating indicator, means for transmitting a compressional wave impulse at a predetermined position of said indicator, means for receiving the echo of said impulse reflected from the object whose distance is being measured, means for causing said echo to operate said indicator and two independently adjustable means controlled by the operator for varying the speed of rotation of said indicator, one in accordance with known variations in water salinity and the other in accordance with known variation in temperature.

2,284,655
ELECTRIC DISCHARGE TUBE
Felix Herriger, Berlin, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application September 24, 1940, Serial No. 358,068
In Germany October 26, 1939
1 Claim. (Cl. 250—27.5)

A discharge tube having a cathode which com-

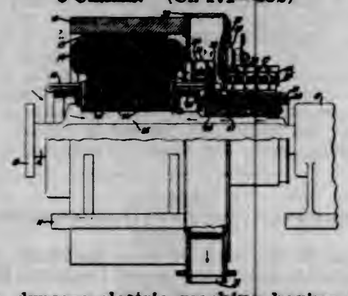
CARNEGIE LIBRARY OF ATLANTA

prises a flat metallic carrier body, an emissive layer fitted to this body on one side thereof, and a radiation inhibiting layer fitted to the carrier



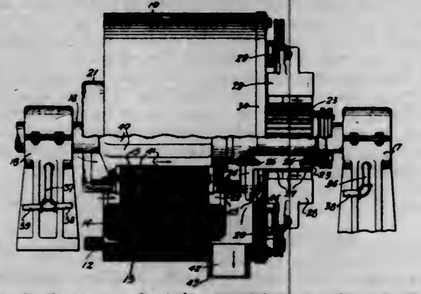
body on the other side, said radiation-inhibiting layer comprising a highly polished metal having an optical radiating capacity less than that of the carrier body.

2,284,656
DYNAMOELECTRIC MACHINE
Wylie Heter, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application July 19, 1940, Serial No. 346,378
8 Claims. (Cl. 171—252)



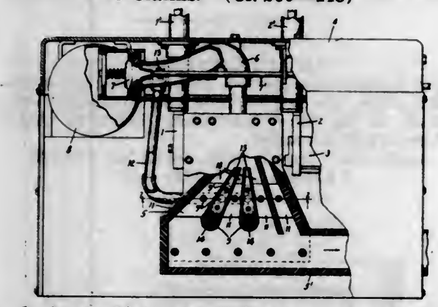
1. A dynamo-electric machine having a stationary member and a rotatable member provided with a winding and a commutator having risers for connecting said winding thereto, a double fan mounted on said commutator risers, means for insulating said fan from said risers, and means including said fan having ventilating medium propelling elements on the side thereof towards said commutator and on the side thereof towards said winding for drawing a separate flow of ventilating medium through said stationary and rotatable members and over said commutator.

2,284,657
DYNAMOELECTRIC MACHINE
Wylie Heter, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application June 28, 1941, Serial No. 400,180
7 Claims. (Cl. 171—252)



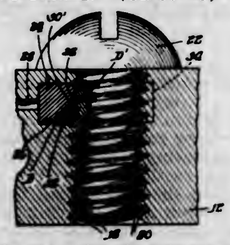
1. A dynamo-electric machine having a stationary member and a rotatable member provided with a winding and a commutator connected to said winding, means extending to closely adjacent the outer periphery of the inner end of said commutator for directing ventilating medium flow over said commutator and including ventilating medium impeller blades on said commutator, a ventilating medium intake to said machine at the end thereof opposite said commutator, and means including a ventilating medium exhaust adjacent said commutator on the inner side of said commutator ventilating medium directing means arranged to exhaust a separate flow of ventilating medium through said dynamo-electric machine members from the end thereof opposite said commutator and from over said commutator.

2,284,658
GAS BLAST ELECTRIC CIRCUIT BREAKER
Leland S. Hobson, Drexel Hill, Pa., assignor to General Electric Company, a corporation of New York
Application June 17, 1941, Serial No. 398,420
6 Claims. (Cl. 200—148)



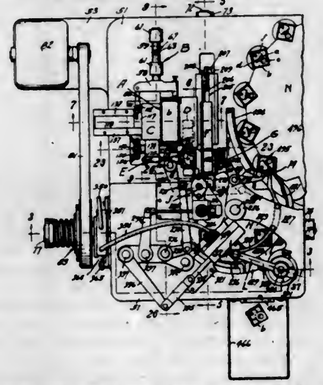
1. A gas blast circuit breaker comprising an arc chute, relatively movable contacts separable to form an arc gap in said chute, means for directing under pressure a blast of gas through said arc gap to extinguish arcing in said chute, said chute comprising insulating arc extinguishing structure against which the arc is urged under influence of said blast, and means for interposing at arc-exposed surfaces of said insulating structure an auxiliary supply of gas under pressure so as to shield said surfaces from the more intense heat of the arc.

2,284,659
THREAD ROLLING DIE
Richard T. Hosking, Wilmette, Ill., assignor, by mesne assignments, to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application May 25, 1940, Serial No. 337,259
15 Claims. (Cl. 80—9)



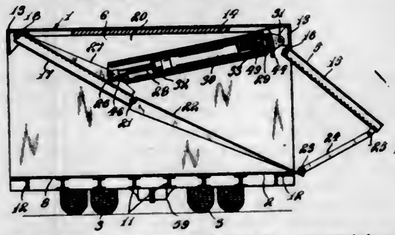
1. Die mechanism for forming screw threads in a screw blank, including a pair of relatively shiftable die members for simultaneously acting upon opposite sides of a screw blank, at least one of said die members having thread producing ridges, and a thread altering section associated with at least one of said die members and including a work shifting surface disposed out of working alignment with said ridges and operable when a screw blank is rolled between said die members to produce in the side surface of a thread convolution a thread shifting surface extending out of helical alignment with respect to the normal thread convolutions produced by said ridges.

2,284,660
CONTAINER TREATING MACHINE
John M. Hothersall, Brooklyn, N. Y., and August E. Almgren, Hillside, N. J., assignors to American Can Company, New York, N. Y., a corporation of New Jersey
Application November 5, 1937, Serial No. 173,050
8 Claims. (Cl. 226—129)



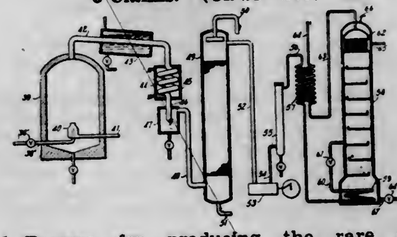
1. In a machine for treating sealed containers having a filling opening and an attached closure element, the combination of feeding devices for advancing containers along a predetermined path of travel, a closure element lifting device for raising the container closure elements to uncover the filling openings, means for holding the closure elements in raised position, a device for detecting advanced containers having their filling openings in other than a fully open condition, and a throw-out mechanism operable by said detecting device for discarding improperly opened containers.

2,284,661
MATERIAL TRANSPORT TRUCK
Joseph F. Joy, Pittsburgh, Pa., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application December 21, 1938, Serial No. 246,961
14 Claims. (Cl. 214—82)



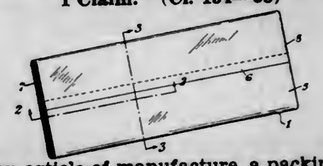
1. A material transport truck comprising, in combination, a portable truck body adapted to receive a material to be transported, said body comprising side walls, end walls and a bottom, said side walls being pivotally mounted, one to swing inwardly and the other to swing outwardly, a bottom plate section overlying said body bottom and pivotally connected at one end to said inwardly swingable side wall and at its other end to said outwardly swingable side wall, and power-operated means connected to said inwardly swinging wall for swinging said walls about their pivots and for inclining said bottom plate section relative to the body bottom to provide a side opening and to effect discharge of material through the open side of the truck body.

2,284,662
PROCESS FOR THE PRODUCTION OF KRYPTON AND XENON
Heinrich Kahle, Hollriegelskreuth, near Munich, Germany
Application March 12, 1937, Serial No. 130,428
In Germany March 23, 1936
3 Claims. (Cl. 23—209)



1. Process for producing the rare gases krypton and xenon which comprises collecting a concentrate of said rare gases, treating the said concentrate with liquid propane to dissolve said rare gases, separating said liquid propane containing said rare gases from the remainder of said concentrate, and separating the propane from the krypton and xenon.

2,284,663
PACKING PAD
John E. Kieffer, Ewing, Ind.
Application March 17, 1939, Serial No. 262,479
1 Claim. (Cl. 154—55)

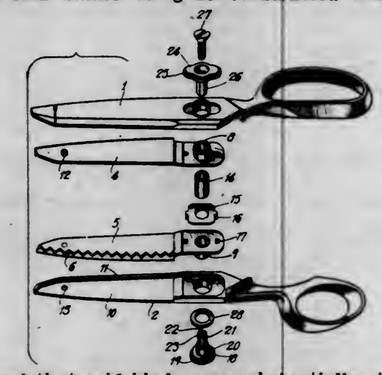


As an article of manufacture, a packing pad of substantially flat rectangular form and of substantially uniform thickness, said pad comprising a flat tubular sheath or envelop of plain paper having opposite open ends, and a plurality of superposed layers of non-nesting self-sustaining indented paper enclosed entirely within said sheath or envelop, said indented paper constituting the filling material for said packing pad and being maintained within said sheath or envelop principally by the friction between the filling material and the sheath or envelop, and being unattached thereto.

2,284,664
SHEARS
Kurt Kissling, Glendale, N. Y.
Application September 6, 1940, Serial No. 355,562
13 Claims. (Cl. 30—260)

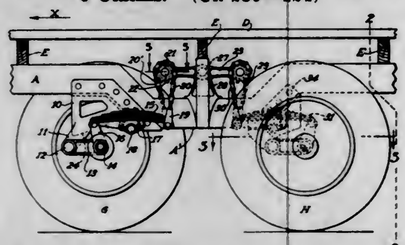
1. A pair of shears comprising, a pair of frame

members, a pair of cutting blades provided with cooperating cutting edges, said blades being positioned along the inner adjacent faces of respective of said frame members and being respectively carried on and movable with said members in the direction of shearing movement, said members and said blades being so constructed and ar-



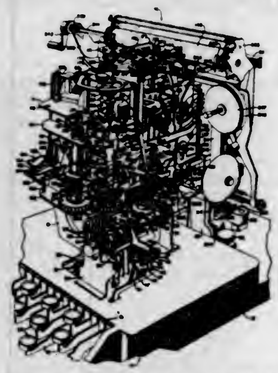
ranged that said blades are substantially rigidly held on respective frame members and movable therewith in the direction of shearing movement while freely floatingly supported for movement independently of said members in a direction transverse to said direction of shearing movement throughout a major portion of their cutting edges.

2,284,665
VEHICLE SUSPENSION
Glenn L. Larison, La Grande, Oreg., assignor to Larison Compensating Axle Corporation, a corporation of Oregon
Application July 5, 1940, Serial No. 344,016
9 Claims. (Cl. 280—124)



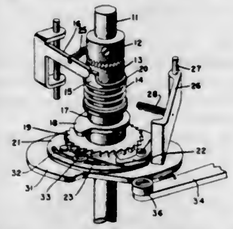
7. In a running-gear assembly a longitudinally-extending rocker mounted for up and down pivotal movement, two pairs of hinged wheel-carrying arms connected to the vehicle near the opposite ends of said rocker, each of said arms hinged for independent up and down movement, a wheel spindle on each arm, ground-engaging wheels on said spindles, the hinges of said arms being substantially parallel to said wheel spindles, compensating mechanisms interconnecting the arms of each pair and including means supported on the ends of said rocker respectively, said compensating mechanisms acting to divide the load supported by each pair of wheels equally between the two wheels of the pair and said rocker acting to control the division of the load supported by said assembly between said pairs of wheels, whereby each of said four wheels will carry its predetermined share of the vehicle load and said hinged wheel-carrying arms will relieve said rocker of all lateral stresses exerted on the vehicle wheels.

2,284,666
PRINTING TELEGRAPH APPARATUS
Berthel F. Madsen, Chicago, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application April 20, 1938, Serial No. 203,021
12 Claims. (Cl. 197—53)



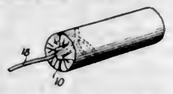
1. In a printing telegraph apparatus, a type wheel, a shaft upon which said type wheel is slidably supported, means for sliding said type wheel upon said shaft, a device having a plurality of arrestment surfaces, means associated with said type wheel sliding means for engaging said arrestment surfaces individually to be arrested thereby, individual means operable alternatively for shifting said device to present one or another of said arrestment surfaces in position to arrest said type wheel sliding means, and means effective in response to operation of one of said individual means for restoring another of said individual means to unoperated position.

2,284,667
MULTIPLE CLUTCH MECHANISM
Berthel F. Madsen, Chicago, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Original application April 20, 1938, Serial No. 203,021. Divided and this application December 26, 1939, Serial No. 310,938
11 Claims. (Cl. 192—48)



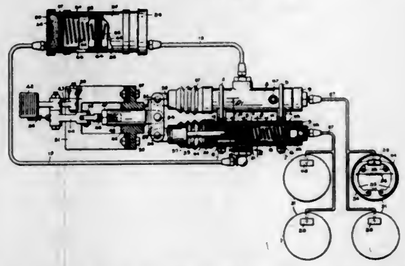
1. In a printing telegraph apparatus, a power driven shaft, a cam assembly member carried by said shaft, means for establishing a driving connection between said shaft and said cam assembly member, a cam assembly carried by said shaft, a ratchet fixed to said shaft, a pawl carried by said cam assembly, means associated with said cam assembly member for conditioning said pawl to become engaged with said ratchet for one revolution of said pawl incident to each revolution of the cam assembly member, and means for engaging said pawl with said ratchet whereby rotation is imparted to said cam assembly.

2,284,668
PACKAGE
William T. Martin, Canajoharie, N. Y., assignor to Beech-Nut Packing Company, Canajoharie, N. Y., a corporation of New York
Original application April 8, 1937, Serial No. 135,655. Divided and this application July 7, 1939, Serial No. 283,200
5 Claims. (Cl. 229—51)



1. In a package, a wrapper of waxed paper wrapped about the cylindrical surface of an article with its ends tucked in over the ends of the article, a lining of unwaxed paper secured to the inner side of the waxed paper and extending about the cylindrical surface of the article, a wrapper of foil enclosing the waxed paper wrapper with its ends tucked in over the tucked in ends thereof, and a tearing strip secured between the waxed paper wrapper and said lining and extending in loop form about the cylindrical surface of the article with its end portions arranged beneath one of the tucked in ends of the waxed paper wrapper and with one of said ends projecting out from one of the tucks of the waxed paper wrapper and outside of the foil wrapper.

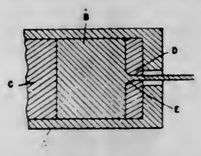
2,284,669
HYDRAULIC BRAKE
Malcolm L. Masteller, Miami, Fla.
Application December 17, 1938, Serial No. 246,395
4 Claims. (Cl. 60—54.6)



1. In a brake comprising dual master cylinders each including a cylinder and a pressure creating piston slidable therein, and both having a common operating means including a swingletree and dual piston thrust rods hinged to the respective ends thereof; the combination therewith of a piston-like member in each of said cylinders, engaging the respective piston in advance thereof and slidable therewith, and engageable means adapted to intercept the forward movement of said piston-like member, constituting means for conserving the integrity of one of said master cylinders in the event of a failure of hydraulic pressure in the other one.

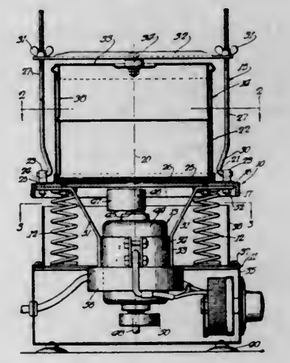
2,284,670
BEARING AND PROCESS OF FORMING THE SAME
William E. McCullough, Detroit, and Edwin O. Goerke, Dearborn, Mich., assignors to Bohn Aluminum & Brass Corporation, Detroit, Mich., a corporation of Michigan
Application February 2, 1940, Serial No. 317,028
11 Claims. (Cl. 29—149.5)

1. In a process of forming bearings from aluminum alloys containing from 5% to 15% of tin, the steps of extruding a billet formed of such material preheated to a temperature from 250° F. to 350° F. and from a container at a tempera-



ture from 550° F. to 600° F. to form a member of predetermined cross sectional contour of substantially finished dimensions and subjecting said member to further operations for fashioning the same to finished form.

2,284,671
SHAKING DEVICE
Gotthold H. Meinzer, Glendale, Calif.
Application August 5, 1939, Serial No. 288,549
19 Claims. (Cl. 209—325)

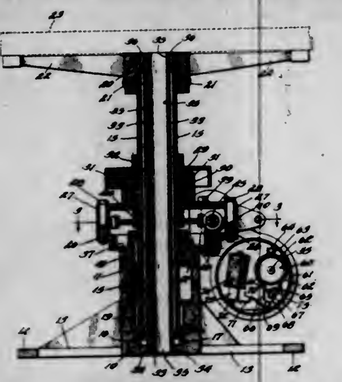


1. In a device for imparting to a suspended system including a table a gyratory motion in a substantially horizontal plane and a simultaneous progressive tilting motion about the center of mass of said system: an eccentric weight rigidly but rotatably supported from said table and rotatable in a substantially horizontal plane, said weight being spaced vertically from the center of mass of said system and being unbalanced by any other weight whereby it produces when rotated a progressive tilting motion of the system; resilient suspension means for said system, said means permitting substantially undamped movement thereof in response to forces generated by the rotation of said weight, and means for rotating said weight.

2,284,672
ANTENNA ROTATOR
Bernard J. Merkle, Chicago, Ill.
Application August 26, 1939, Serial No. 292,064
13 Claims. (Cl. 211—1.6)

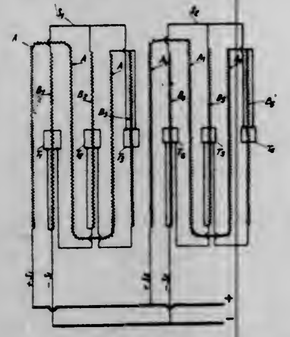
1. In a rotatable support, a hollow vertical shell with a support at the top, a base into which the lower end of the shell is inserted, bearing means for supporting the lower end of the shell comprising a circular shoulder extending inwardly below the end of the shell, an anti-friction ring bearing interposed betwen the shell and

shoulder, and an oil retaining sleeve secured to the inside of the shoulder and extending upward-



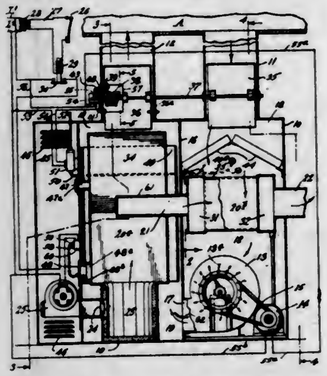
ly above the bearing within the shell, and means for rotating the shell in either direction.

2,284,673
ELECTRIC HEATING SYSTEM FOR GARMENTS AND OTHER OBJECTS
Uscher Munschak, Paris, France, assignor of one-half to Jacob Wolodarsky, Paris, France
Application May 16, 1940, Serial No. 335,515
In France June 1, 1939
9 Claims. (Cl. 219—46)



1. An automatic electrical heating system adapted for use in garments, covers, cushions, fabrics and other objects, and effective to produce and maintain a stabilized, substantially uniform temperature for said garment or other object as a function of the temperature of the air or other fluid surrounding said garment or object, said system including a first resistance adapted for connection at one end to a source of current supply and at the other end having two branch circuits connected in parallel thereto, a thermostat having one pole thereof connected to one branch circuit and a second resistance connected to the other branch circuit, two further branch circuits connected in parallel to the other pole of said thermostat, a third resistance connected at one end to one of said further branch circuits and a fourth resistance connected at one end to the other of said further branch circuits, a conductor adapting the other end of the third resistance for connection to said source of current, connecting means connecting said conductor in parallel to the other ends of the second and fourth resistances, and at least one thermostat included in said connecting means between said second and fourth resistances and said conductor, at least one of the thermostats being set to open at a different temperature than the one or more other thermostats in the system.

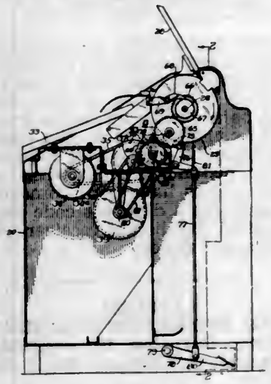
2,284,674
HEATING SYSTEM
Charles I. Murdock, Perry, N. Y., assignor of one-half to John B. Molinow, Perry, N. Y.
Application December 16, 1937, Serial No. 180,183
22 Claims. (Cl. 237—2)



1. An improved heating system of the type in which heated air is circulated through a room or rooms, comprising a heating unit having a cold air return conduit leading from one part of said room or rooms and opening into said unit at one point, and a hot air supply conduit opening out of the unit at another point and leading to another part of said room or rooms, a motor operated blower associated with said unit for circulating relatively cold air from said room through said cold air return conduit to said unit and after a heat exchange in said unit delivering it to said hot air supply conduit for return to said room, a temperature responsive device disposed in a position to be directly and immediately responsive to the temperature of the air in said unit which is delivered through said hot air supply conduit, a damper in one of said conduits and controlled by said heat responsive device for operation into flow restricting but not flow preventing position when the temperature of the air delivered by said unit falls below a selected temperature but above normal room temperature, and for opening it through increasing extents as the temperature of the air delivered from the unit rises above said selected temperature above normal room temperature, whereby whenever the temperature of the heated air delivered by the unit falls below a selected temperature, the flow of air through the unit automatically will be partially but not fully cut down in order that the stratification of the air in said room into different horizontal zones of different temperatures may be prevented and the movement of air in the room decreased to prevent objectionable drafts of relatively cool air, and means for keeping said motor operated blower continuously running whenever said damper is materially away from maximum restricting position.

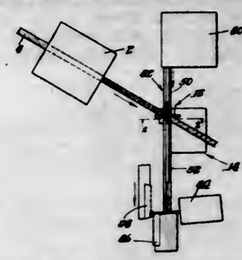
11. In an improved hot air heater, a cabinet having a cold air conduit connected to one zone thereof, and a hot air conduit opening out of another zone thereof, means for forcibly circulating air through said cabinet from said cold air conduit to said hot air conduit, means within said cabinet for heating the air passing therethrough, a damper in one of said conduits, means responsive to the temperature of the air delivered to said hot air conduit for causing operation of said damper from an open position to a position in which it materially restricts but does not fully obstruct flow of air through said cabinet, means for spraying moisture into the air passing through said cabinet before said air reaches said air heating means, an electrically operated valve controlling the supply of moisture to said spraying means, and means including a switch operable by said temperature responsive means simultaneously with the operation of said damper into flow restricting position, for causing an operation of said valve to cut off the moisture supplied to said spraying means whenever the damper is operated into flow restricting position and re-establishing the supply of moisture to said spraying means automatically whenever the damper is operated to open position.

2,284,675
VARIABLE SPEED DEVICE
John R. Nalbach, Oak Park, Ill.
Application October 7, 1940, Serial No. 360,155
21 Claims. (Cl. 101—132)



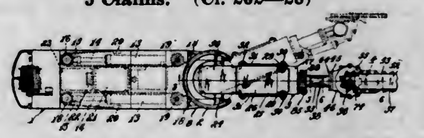
1. In a mechanism of the type described, the combination of a duplicating drum, means adapted by cooperation with said drum to print and deliver a plurality of copy sheets presented one at a time to the drum, two shafts rotatable about parallel axes located in slightly spaced relation to each other, a connecting part, means for connecting said connecting part movably with one of said shafts adapted to hold the connecting part normally in eccentric position with respect to said shaft so as to be movable toward the axis of said shaft, means providing a shifting bearing for said connecting part on said other shaft for causing said connecting part to revolve about the axis of said other shaft whereby said other shaft by rotation at uniform speed serves through said connecting part to give said one shaft alternately accelerating and decelerating movements in each revolution, means connecting said one shaft with said drum for rotating the drum, and means adapted at a predetermined point in the rotation of said drum to move said connecting part into changed position with respect to said one shaft for varying the driving effect of said other shaft.

2,284,676
METHOD AND MACHINE FOR ASSEMBLING WASHERS WITH SCREW THREADED FASTENERS
Moritz H. Nielsen, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application October 21, 1940, Serial No. 362,086
23 Claims. (Cl. 10—2)



10. A machine for making unit assemblies of a threaded fastener and a washer comprising an assembly mechanism, means for feeding a washer strip to the assembly mechanism, means for feeding a fastener element to the assembly mechanism, said assembly mechanism including means for holding a fastener element, means for punching a washer from the strip for telescoping the washer with the fastener element held in the holding means and simultaneously releasing the fastener element from the holding means, and means for upsetting portions of the fastener elements beyond the free faces of the washers to retain the fastener elements and washers in assembled relation.

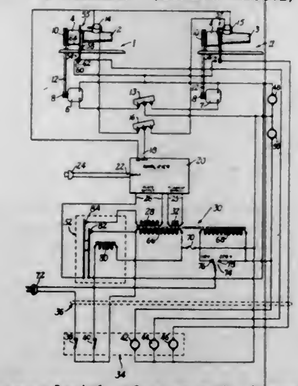
2,284,677
MINING APPARATUS
Charles F. Osgood, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Continuation of application Serial No. 152,052, July 6, 1937. This application March 23, 1940, Serial No. 325,487
5 Claims. (Cl. 262—28)



1. In combination, a cutter bar, a cutter bar supporting head, a pivotal mounting for said bar on said head, an elongated outer boom section providing a pivotal mounting for said head on an axis extending transversely to the length of said boom section and parallel to the planes of bar swing upon the pivotal mounting of the bar on the head, and means for supporting and swinging said outer boom section and providing automatically for augmented swinging thereof including an elongated inner boom section, means providing a horizontal pivotal mounting for the latter at its inner end, means pivotally connecting the inner end of the outer boom section to the outer end of the inner boom section on a parallel pivot, an elongated tie-forming element connected to the outer boom section at a point above the pivotal connection of the latter with the inner boom section and at a spaced point having a stationary pivotal support in spaced relation to the pivot for the inner boom section, and means for swingingly raising and lowering the inner boom

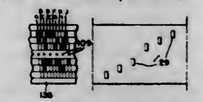
section including hydraulic cylinder and piston devices pivotally connected to the inner boom section and to a stationary point of reaction.

2,284,678
ELECTRIC PHONOGRAPH
Lucius P. Petruschell, Stratford, Conn., assignor to Dictaphone Corporation, New York, N. Y., a corporation of New York
Application July 31, 1940, Serial No. 348,768
5 Claims. (Cl. 179—100.4)



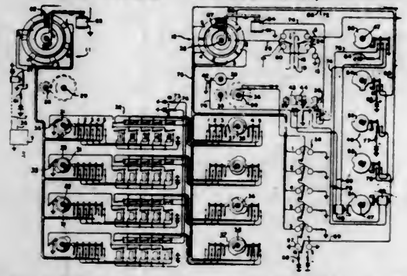
1. In an electric phonograph, in combination, a plurality of record supporting units each having a translating device mounted for traversing movement in relation thereto, driving means for each of said units, means adapted to effect sequential operation of said units, an electrical power supply for said driving means, control means for controlling the supply of power to said driving means, a plurality of indicating devices connected with said power supply and located with said control means remotely from said phonograph and adapted to indicate which of said phonograph units has been in operation, switch means for controlling the operation of each of said indicating devices, and operating mechanism for each of said switch means operatively associated with one of said translating devices and adapted to actuate said switch means when the respective translating device occupies an initial position from which it moves during its traversing movement whereby said indicating devices are rendered inoperative when said translating devices are in their initial positions and rendered operative when the translating devices have departed from their initial positions.

2,284,679
CODE TAPE PRINTER
Louis M. Potts, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application July 15, 1936, Serial No. 90,747
Renewed May 29, 1939
63 Claims. (Cl. 178—4)



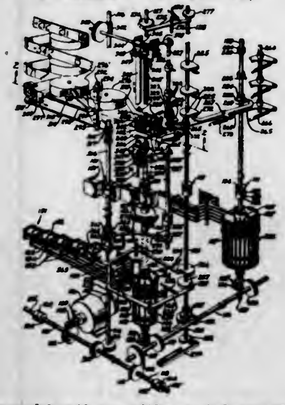
11. In a printing telegraph apparatus for preparing a control form with transverse rows of code group markings, a type wheel having a spiral arrangement of printing elements, a hammer in longitudinal alignment with said type, spring urged into engagement therewith, a cam follower associated with said hammer, a cam having a plurality of peripheral depressions into which said follower is received thereby releasing said hammer, a blocking arm for preventing movement of said hammer, and an electromagnet under the control of line signals for selectively presenting and withdrawing said blocking member.

2,284,680
SYNCHRONOUS SIMPLEX TELEGRAPH SYSTEM
Louis M. Potts, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application October 4, 1937, Serial No. 167,163
32 Claims. (Cl. 178—53.1)



1. In a telegraph system, a transmitter, a distant receiver, a signal storage device intermediate said transmitter and said distant receiver, means to store a plurality of code signal combinations in said device, means to transmit the stored signal combinations in the order stored, means to transmit a code signal combination for stopping the distant receiver when all stored signal combinations have been transmitted, and means to transmit a different code signal combination to start the distant receiver when additional signals are stored.

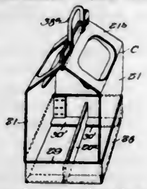
2,284,681
RECORDING AND EXHIBITING MECHANISM
Louis M. Potts, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application May 15, 1939, Serial No. 273,672
6 Claims. (Cl. 88—24)



1. In combination with a telegraph selector mechanism, a plurality of tape supply sources,

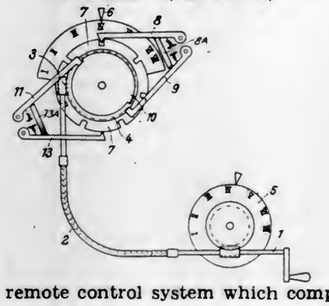
means including a plurality of groups of identical type wheels each for printing selectively on one of the tapes from said sources, an individual tape advancing apparatus for each one of the tapes for drawing said tape from its said supply source, means for disposing said tapes parallelly with limited portions of each tape arranged in a straight line and in a common plane, a plurality of optical systems one associated with a number of said tapes comprising a group and associated with its said single plane comprising condenser and projection lenses, a source of light for producing a beam through said optical system to project an image from each one of said single planes, and a viewing screen for receiving a composite image of the projected images from said plurality of groups of tapes.

2,284,682
BOTTLE HOLDER
Henry K. Powell, Chicago, Ill.
Application August 4, 1938, Serial No. 222,962
7 Claims. (Cl. 229—23)



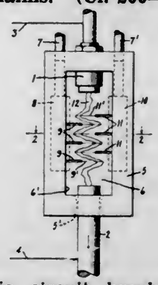
2. A container for packaging and carrying bottles and the like, comprising a body member and a girth member both formed of sheet material and collapsible to a flattened form; the body member comprising a bottom having panels which are connected to each other and foldable toward and from each other, and side panels extending upwardly from opposite outer margins of said bottom and connected to each other at their upper portions, said bottom including also a partition formed thereon in position to extend upwardly from the bottom panels between the side panels; the girth member having wall portions adapted to encompass the side panels and form an upstanding rim adjacent outer marginal portions of the bottom when the latter is in its unfolded set-up condition, and the side panels being provided with a handle at their upper ends.

2,284,683
REMOTE CONTROL SYSTEM
Walter Preussler, Berlin-Neukolln, Germany, assignor to C. Lorenz Aktiengesellschaft, Lorenzweg, Berlin-Tempelhof, Germany, a company
Application April 5, 1939, Serial No. 266,145
In Germany February 9, 1938
4 Claims. (Cl. 74—10)



1. A remote control system which comprises a

2,284,684
ELECTRIC CIRCUIT BREAKER
David C. Prince, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application December 19, 1940, Serial No. 370,818
5 Claims. (Cl. 200—148)



1. An electric circuit breaker of the fluid blast type comprising relatively movable contacts separable to form an arc within a free space, means for directing a jet of arc extinguishing fluid transversely across the arc stream, and means for directing a second jet of arc extinguishing fluid from another direction transversely across the arc stream, said jets being in shearing contact with each other and directed so as to shear the arc stream between them.

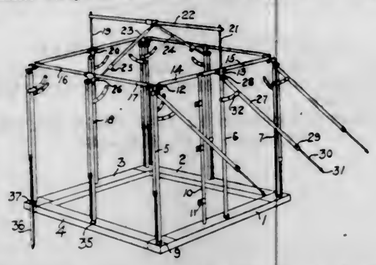
2,284,685
PREPARATION OF PHTHALOCYANINE PIGMENTS
Stanley Rawlings Detrick, Wilmington, Del., and Robert Titus Diver, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 25, 1939, Serial No. 301,171
4 Claims. (Cl. 260—314)

1. A process of purifying a phthalocyanine compound selected from the group consisting of metal-free phthalocyanine and those metal-phthalocyanines which do not lose their central metal upon being treated with concentrated sulfuric acid, which comprises converting the said phthalocyanine compound into an N-sulfate thereof, isolating the latter in crystalline form, then dissolving the same in concentrated sulfuric acid, and diluting the solution to a large volume to precipitate the free phthalocyanine compound.

2,284,686
COLLAPSIBLE TENT FRAME
Bert A. Rupright, Lansing, Mich., assignor of one-half to Leon Grabowski, Lansing, Mich.
Application June 8, 1940, Serial No. 339,548
1 Claim. (Cl. 135—3)

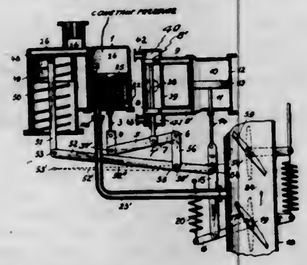
In a collapsible tent frame, a base frame con-

structed of separable pieces, means for securing the base frame in position upon the ground, spaced vertical members having lower ends connected with the base frame in detachable relation, horizontal top members connecting the upper ends of the vertical members and detachable therefrom, each vertical member having pivotally and detachably connected therewith an inclinable tube, each inclinable tube being provided with an extensible rod and a set screw whereby the rod may be extended from the free end of the tube in adjustable relation, said rods having terminal rings constructed to engage tent pegs,



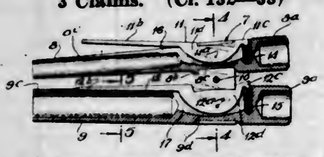
an arcuate member provided for and attached to each inclinable tube, means whereby the said arcuate member may be connected and disconnected with a vertical member to adjust the inclinable tubes, a tent angle carrier extending horizontally across the tent frame top and having vertical end rods in adjustable and detachable connection with vertical members, and said tent angle carrier having connected between its ends inclined supporting bracing tubes each having an extension rod therein, the ends of said rods being connected with the sides of the tent frame.

2,284,687
MEANS FOR CONTROLLING THE CHARGE OF INTERNAL COMBUSTION MOTORS
Emil Schimanek, Budapest, Hungary
Application September 26, 1936, Serial No. 102,808
In France October 1, 1935
9 Claims. (Cl. 123—103)



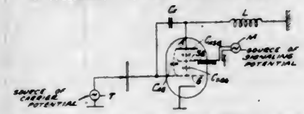
1. Apparatus for controlling the charging pressure in the induction pipe of an internal combustion engine comprising, a throttle valve arranged in and adapted to open and close the induction pipe, means associated with the valve operably responsive to the atmospheric pressure tending to open said valve so as to increase the pressure in the induction pipe between the valve and the engine slightly over the desired pressure, and means operably responsive to the increased pressure in the induction pipe tending to close said valve whereby the position of the valve is determined by the differential action of said means.

2,284,688
MULTIPLE HAIR CURLER
Nathan L. Solomon, Mount Vernon, N. Y.
Application November 17, 1937, Serial No. 174,916
3 Claims. (Cl. 132—33)



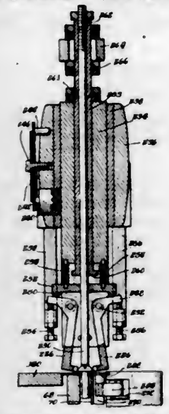
1. In combination, spaced tubes each having a reduced portion and spaced shoulders, each of said tubes having a slot disposed longitudinally thereof and interrupting said shoulders and extending along said reduced portions, said reduced portions having relatively deep recesses communicating with said slots, hair clamping means mounted on said tube and having relatively enlarged intermediately disposed depending portions movably fitting into said recesses and closely straddled by the walls thereof, means pivotally sustaining said depending portions, a strap comprising complementary members having mutually engaging inner surfaces and spaced grooves interrupting said surfaces, said grooves constituting spaced bearings rotatably guiding said reduced portions, manipulating means extending from said intermediately disposed portions, spring means cooperating with said manipulating means, said shoulders closely straddling the ends of said strap to prevent linear displacement of said tubes relative to said strap, and means for holding said complementary members in mutually engaging relation.

2,284,689
MODULATION SYSTEM
Joachim Steinmetz, Berlin-Tempelhof, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application July 22, 1939, Serial No. 285,839
In Germany July 26, 1938
1 Claim. (Cl. 179—171.5)



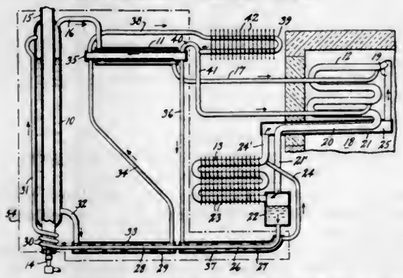
An ultra-short wave modulating arrangement comprising a tube having a cathode, an anode, a screen grid, and a control grid, a plate impedance connected between said anode and ground, screen grid grounding connections having inherent impedance joining said screen grid to ground, a carrier frequency source connected to apply a carrier frequency potential between ground and said control grid, a source of signaling potential connected between the screen grid and ground whereby an oppositely phased signaling-frequency potential is established between said anode and ground, and a condenser connected between said anode and said control grid whereby said condenser and the inherent capacity between said anode and control grid in parallel constitute a first arm of a bridge, of which a second arm is constituted by the inherent capacity between said screen grid and said control grid and of which the remaining two arms are constituted by said plate impedance to ground and said inherent impedance of the screen grid grounding connections respectively, said first and second arms being connected in series between said anode and said screen grid, and said condenser having a value such that the resultant voltage developed between said anode and said screen grid due to said two signal frequency potentials causes equal currents to flow through said first and second arms.

2,284,690
SCREW AND LOCK WASHER ASSEMBLY MACHINE
William Stern, Park Ridge, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application June 5, 1939, Serial No. 277,344
13 Claims. (Cl. 29—84)



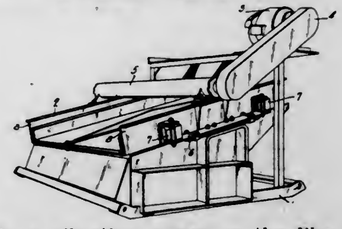
1. In a machine for assembling screw elements and washers, means for conveying screws to a delivery point, means for conveying washers to an assembly point, assembly mechanism including means movable from an inactive position receiving a screw element at this delivery point to carry and insert the screw element into a washer at the assembly point, means adapted to retain the assembly mechanism in inactive position, washer detector means at the assembly point, and means controlled by said detector means for actuating and releasing said retaining means in response to the presence or absence of a washer at the assembly point.

2,284,691
REFRIGERATION
Per Paul Strandberg, Stockholm, Sweden, assignor to Platen-Munters Refrigerating System, Aktiebolag, Stockholm, Sweden, a corporation of Sweden
Application March 30, 1940, Serial No. 326,945
In Germany April 14, 1939
15 Claims. (Cl. 62—119.5)



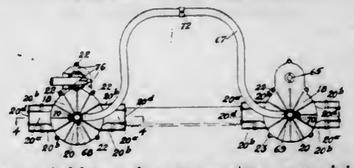
1. An absorption refrigeration system including a generator, means to heat said generator to cause expulsion of refrigerant vapor from and thereby weaken absorption liquid therein, means for conducting weakened absorption liquid from said generator in the presence of inert gas to lower the vapor pressure of the refrigerant fluid and thereby permit further expulsion of refrigerant vapor from and further weakening of the absorption liquid, and a condenser which receives inert gas and refrigerant vapor from said means and in which the refrigerant vapor is condensed to liquid.

2,284,692
VIBRATING SCREEN
Harry L. Strube, Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill., a corporation of Illinois
Application April 23, 1940, Serial No. 331,245
3 Claims. (Cl. 209—326)



1. In a vibrating screen or the like, a base frame; a vibratory screen frame, unbalanced rotary means carried solely by the screen frame for vibrating the latter in predetermined planes; leak springs interposed between the base frame and screen frame for flexure in planes substantially parallel to the planes of vibration of said screen frame; securing elements carried by the screen frame and springs adjacent the ends of the springs and each having faces disposed in planes substantially parallel to the planes of vibration imparted to said screen frames by said unbalanced rotary means; and rubber members disposed between and having surfaces secured to the faces of said securing elements, said rubber members being displaceable in shear in planes substantially parallel to the planes of vibration imparted to said screen frame by said unbalanced rotary means; said leaf springs and rubber members serving jointly to resiliently support the screen frame from the base frame and complementing each other in the control of the vibrations imparted to said screen frame by said unbalanced rotary means.

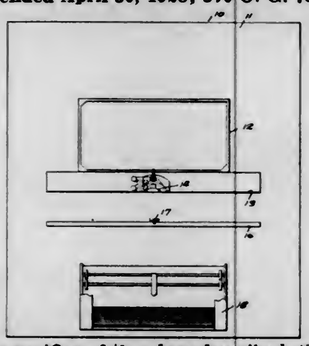
2,284,693
PORTABLE SAWING APPARATUS
Edward De Voe Tompkins, New York, N. Y.
Application June 30, 1938, Serial No. 216,649
10 Claims. (Cl. 143—68)



1. A portable sawing apparatus comprising two associated saw blades arranged with their backs in contact to form a sawing unit and means for supporting and driving the blades, including drive connections engaging contiguous end portions of

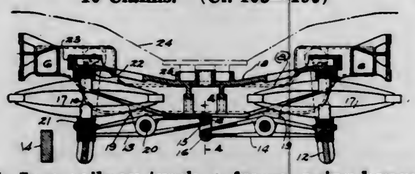
the saw blades, means including two sets of interconnected epicyclic gear trains for imparting to the drive connections simultaneous rectilinear reciprocating movement in opposite directions at equal speeds between limits located beyond the gear train in the direction of said reciprocation, and a casing including a body portion enclosing the gear train and extensions at opposite sides surrounding the path of the saw-blade end portions and drive connections, provided with an aperture arranged for access to the drive connections.

2,284,694
PHONETIC VERIFIER
Leonard G. Townsend, Washington, D. C.
Application June 17, 1938, Serial No. 214,396
9 Claims. (Cl. 179—100.3)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



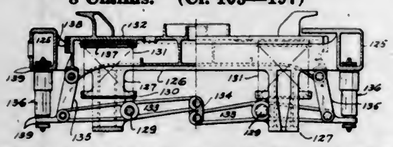
1. In a verifier of the class described, the combination of one or more travelling sound tracks having different portions thereof adapted to produce distinguishable sounds substantially corresponding in number to the number of digit positions in a column of a card to be verified, means cooperable with said one or more sound tracks for producing sound, electrical means comprising different circuits for controlling the production of said distinguishable sounds, means for sensing a perforated card, a carriage adapted to travel across said sensing means, timing means for completing each of said circuits in timed relation with the travel of said one or more sound tracks, and switches movable with said carriage and operable selectively by said sensing means for determining which of said circuits is to be completed.

2,284,695
RAILWAY TRUCK
James C. Travilla, Jr., University City, and Edwin C. Jackson, Clayton, Mo., assignors to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware
Application March 10, 1939, Serial No. 260,916
10 Claims. (Cl. 105—190)



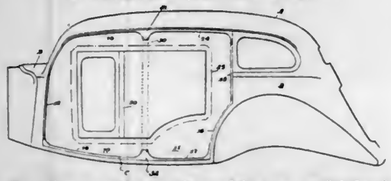
1. In a railway truck, a frame, swing hangers suspended therefrom, respective springs at opposite sides of the truck supported by said hangers, a bolster mounted on said springs, levers for stabilizing the action of said springs extending inwardly from said swing hangers and each separately pivoted on said bolster at a point spaced from the center of the bolster and extending beyond its pivot to connect with the opposite stabilizer lever.

2,284,696
RAILWAY TRUCK STRUCTURE
James C. Travilla, Jr., University City, and Edwin C. Jackson, Clayton, Mo., assignors to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware
Original application March 10, 1939, Serial No. 260,916. Divided and this application August 2, 1940, Serial No. 349,498
8 Claims. (Cl. 105—197)



2. In a railway truck, a truck frame including wheel pieces, spaced transoms connecting said wheel pieces, and yokes depending from and connecting said transoms at points spaced inwardly of the truck from said wheel pieces, springs carried on said yokes, a bolster supported on said springs, and stabilizing levers extending transversely of the truck and pivoted to said yokes and having their inner ends interconnected and having their outer ends connected to said bolster, there being yielding connections between said wheel pieces and the outer ends of said levers.

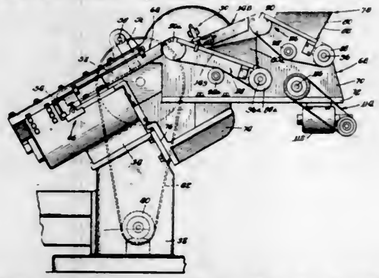
2,284,697
METHOD OF MAKING SHEET-MATERIAL PARTS
George Trautvetter, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 27, 1938, Serial No. 187,127
4 Claims. (Cl. 113—116)



1. In the method of making a vehicle body side wall panel including front and rear door openings and a panel for a door of the same vehicle, the step of removing from a single blank of sheet material an integral portion sufficient to provide for the front and rear door openings, of forming said blank into a body side wall stamping, of forming said removed portion into a door panel, of forming separately a door post member and connecting such member with said side wall stamping as to separate the front and rear door openings from each other.

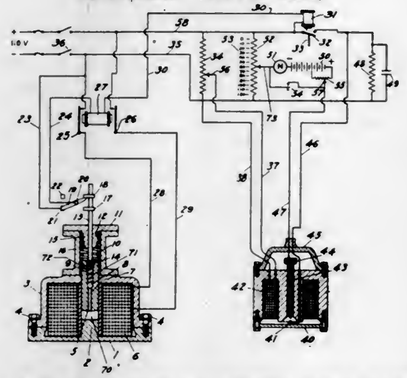
2,284,698
SCREW AND WASHER ASSEMBLING MACHINE AND METHOD
George C. Trotter, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application April 24, 1939, Serial No. 269,820
30 Claims. (Cl. 29—84)

6. In a machine for assembling screw elements and washers, an endless conveyor member having means for receiving and positively engaging the washers in predetermined relationship and positively conveying said washers along a predetermined path and at a predetermined rate, means to arcuately move a screw element into



wedging engagement with the hole in a washer at a point intermediate of said path, said conveyor being operative to continue positive advancement of the washer in said path to permit the screw element to associate itself with the hole in said washer.

2,284,699
DISTANCE MEASURING DEVICE
Edwin E. Turner, Jr., West Roxbury, Mass., assignor to Submarine Signal Company, Boston, Mass., a corporation of Maine
Application April 9, 1932, Serial No. 604,255
Renewed December 21, 1939
19 Claims. (Cl. 177—386)

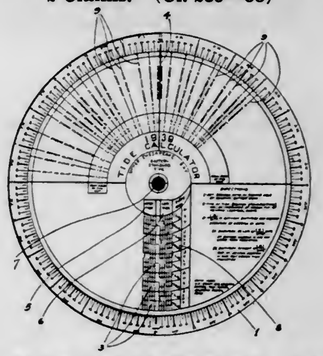


8. A depth or height measuring system having a sound producer, means directly controlled by the operation of the sound producer to repeat automatically successive operations thereof, means operated synchronously with the production of the sound for commencing the operation of a time measuring circuit, means for receiving an echo and fixing the magnitude of the time measuring interval to give a measure of the depth on said time measuring circuit.

2,284,700
SOYA BEAN PRODUCT
Eric Wahlforss, Chicago, Ill., assignor to The Glidden Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application August 6, 1936, Serial No. 94,573
14 Claims. (Cl. 106—154)

1. The method of preparing a composite soya bean product which comprises leaching soya bean meal containing water soluble proteins, water soluble carbohydrates, alkali soluble globulin proteins, hemi cellulose, cellulose and insoluble prolamine proteins with a weak acid at a pH corresponding to the isoelectric point of the alkali soluble globulin proteins in the meal, dissolving the alkali soluble proteins from the meal, precipitating the alkali soluble proteins in the presence of the insoluble residue comprising cellulose, hemicellulose and alkali insouluble prolamines originally present in the meal, separating the composite of insoluble residue and precipitated protein from the solution, and drying the composite thus formed.

2,284,701
CALCULATOR
Frederic A. Wardenburg and Ralph L. Dodge, Wilmington, Del.
Application August 2, 1939, Serial No. 287,880
2 Claims. (Cl. 235—88)

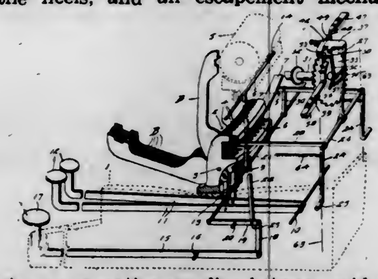


1. A calculator adapted by spatial arrangement to show the precalculable relationships between time, date, place, and appearance of specific phenomena, comprising front and back circular disks, arranged concentrically in a superimposed order and adapted to permit relative rotative adjustment, said back disk having a ring adjacent to the periphery and projecting beyond the front disk and being divided arcuately into equal, consecutively labeled intervals representing time; said back disk having in addition a series of concentric inner rings, each inner ring bearing numbers representing dates; said front disk being perforated by holes whose radial distances from the center of the front disk are, respectively, equal to the radial distances of the inner rings from the center of the back disk and which are adapted to disclose, through the holes, successively, by rotation, the dates in the corresponding inner rings of the back disk; said front disk bearing in addition, radial indicia terminating at the circumference of said front disk and being spaced arcuately to represent tidal time intervals between geographic locations; said indicia being so located with respect to the holes that the indicia will point to the times on the time ring of the back disk at which a tidal phenomenon will occur at the respective geographical locations on the date appearing centered in any date hole.

2,284,702
VARIABLE SPACING MECHANISM FOR TYPEWRITERS
James L. Webb, Gainesville, Tex.
Application December 28 1940, Serial No. 372,128
8 Claims. (Cl. 197—84)

1. In a typewriting machine having a carriage

actuated rotatable shaft and type bars pivotally supported for swinging movement, means for effecting variable movement of the carriage in accordance with different widths of characters carried by the bars, comprising heels of different contours on the type bars and bearing definite relations to the widths of the characters carried by the bars, a universal bar supported to be actuated by the heels on movement of the bars in printing, said universal bar being actuated to different degrees by the different contour forms of the heels, and an escapement mechanism



forming an operative coupling between said shaft and said universal bar to be controlled by the universal bar, said mechanism including a ratchet wheel, a pawl and a dog coupled with the universal bar and alternately engaging the ratchet wheel upon movement of the bar, the ratchet wheel having different degrees of turning movement upon release by the dog and engagement by the pawl, and means cooperating with the pawl for effecting regulation of the degree of turning of the ratchet wheel in direct proportion to the degree of shift given the universal bar by a type bar heel.

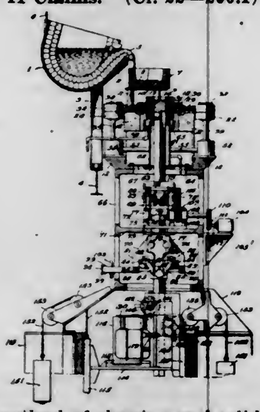
2,284,703

METHOD FOR CONTINUOUSLY MOLDING METALS

Albert Weiblund and Fred Benard, Sudbury, Ontario, Canada, assignors to The International Nickel Company of Canada, Limited, Copper Cliff, Ontario, Canada, a company of Canada

Original application June 1, 1938, Serial No. 211,116. Divided and this application December 3, 1940, Serial No. 368,294. In Canada May 20, 1938

11 Claims. (Cl. 22—200.1)



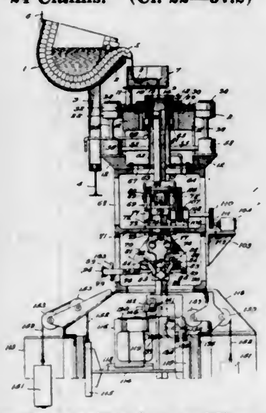
9. The method of shaping and solidifying molten metal against a cooling and shaping surface without adherence of the solidifying metal to said surface which comprises laterally supporting the molten metal only intermittently by said cooling and shaping surface.

2,284,704

APPARATUS FOR CONTINUOUSLY MOLDING METALS

Albert Weiblund and Fred Benard, Sudbury, Ontario, Canada, assignors to The International Nickel Company of Canada, Limited, Copper Cliff, Ontario, Canada, a company of Canada

Application June 1, 1938, Serial No. 211,116
In Canada May 20, 1938
24 Claims. (Cl. 22—57.2)

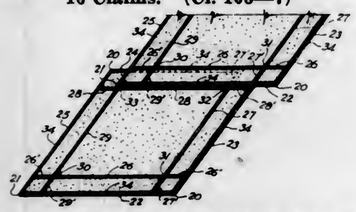


21. In an apparatus for molding continuous hollow ingots, castings and shapes of metals and alloys, that improvement which comprises an open-ended mold having separate longitudinal sections movably mated together to form a mold cavity, a core having separate longitudinal sections movably mated together in said mold cavity, means adapted to vibrate the mold sections toward and away from the axis of the mold cavity to increase and decrease the cross sectional area of the mold cavity and means adapted to vibrate said core sections toward and away from each other.

2,284,705

SHINGLE

James N. Wickersham, Kansas City, Kans.
Application May 3, 1940, Serial No. 333,153
16 Claims. (Cl. 108—7)

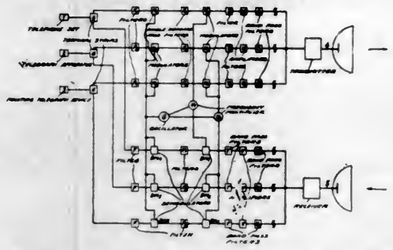


1. A composition shingle having an imperforate quadrilateral body portion, the opposite side edges of which are parallel to each other, all the side edges of said shingle being of the same length and being straight and uninterrupted, the adjacent side edges meeting to form sharp corners, the edges forming each of one pair of opposite corners extending at an acute angle to each other and the edges forming each of the other pair of opposite corners extending at an obtuse angle to each other.

2,284,706

ARRANGEMENT FOR THE TRANSMISSION OF INTELLIGENCE

Alfred Wiessner and Wolfgang Hagen, Berlin, Germany, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application July 18, 1939, Serial No. 285,045
In Germany July 19, 1938
1 Claim. (Cl. 250—9)



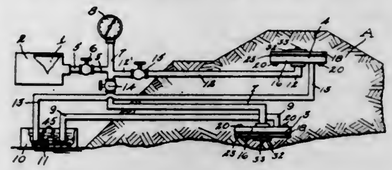
A two-way carrier frequency station in which a plurality of different signal messages are transmitted and received by use of doubly modulated carrier channels, the signal messages being transmitted on different respective frequencies as single sidebands, the transmitting branch comprising a single carrier wave generator, a plurality of first modulators, means for applying to each of said first modulators carrier waves from said single generator and signal waves constituting one of said plurality of different signal messages, means for selecting a single sideband from the output of each of said first modulators, means for deriving higher frequencies from said carrier wave generator, a plurality of second modulators, means for applying to each of said second modulators one of said derived higher frequencies and modulated energy comprising a single sideband selected from the output of a different first modulator, means for selecting a single sideband from the output of each of said second modulators, and a common transmitter for transmitting said selected single sidebands, and the receiving branch comprising a common receiver for receiving a plurality of single sideband waves, means for segregating said received single sideband waves, first demodulators for said received sidebands, means for applying said derived higher frequencies to said first demodulators, second demodulators and means for applying energy from said single generator and from said first demodulators to said second demodulators to derive the received signal messages therefrom, the modulated energy applied to said second modulators and the modulated energy applied to said second demodulators occupying the same frequency bands.

2,284,707

APPARATUS FOR MEASURING SOIL OR HYDROSTATIC PRESSURES

Francis J. Wilson, Memphis, Tenn.
Application January 18, 1940, Serial No. 314,478
9 Claims. (Cl. 265—47)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In an apparatus for determining the soil pressure of a dam, levee or foundation structure comprising in combination a soil pressure cell adapted to be placed under a dam, levee or foundation structure, said soil pressure cell including a body member, a cover ring mounted on said body member, a pressure plate movably mounted in said cover ring and adapted to be acted upon by the soil pressure of said dam, levee or foundation structure, a diaphragm provided in said cell, a valve opening in said body member, a valve secured to said diaphragm and pressure plate and controlling said valve opening, a receptacle for liquid, a source of compressed air connected in communication with the valve opening in said body member and in communication with said receptacle through said valve opening, said valve adapted to be acted upon by

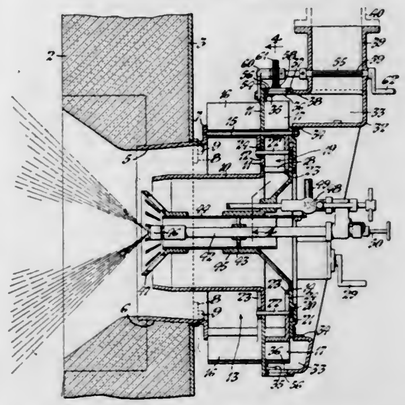


said compressed air to force said pressure plate against the pressure of the soil of said dam, levee or foundation structure, and also to operate said valve to control said valve opening to admit air through said soil pressure cell from said source and to enter the liquid in said receptacle upon the pressure of the compressed air being slightly greater than the pressure of the soil of said dam, levee or foundation structure, whereby air bubbles are produced in the liquid of said receptacle and means connected to indicate the amount of pressure required to operate said valve to admit air through said pressure operated means to the liquid in said receptacle to produce said air bubbles therein.

2,284,708

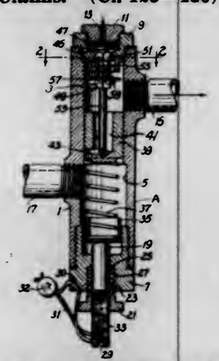
FUEL BURNER

Ernest L. Woolley, Providence, R. I.
Application December 19, 1939, Serial No. 309,997
10 Claims. (Cl. 110—22)



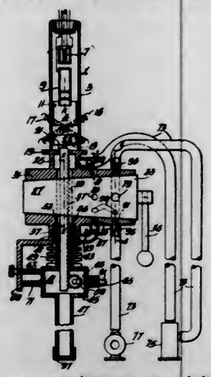
1. In an apparatus of the type indicated, a casing, a burner for liquid fuel in the casing, means for supplying air to the casing, a conduit for supplying a mixed charge of powdered fuel and air to the casing, and means for simultaneously cutting off the first mentioned air supply and opening the conduit for supplying a mixed charge of powdered fuel and air, or vice versa.

2,284,709
SAFETY APPARATUS
Orren E. Zoder, St. Louis, Mo., assignor, by mesne assignments, to Zoder, Incorporated, St. Louis, Mo., a corporation of Missouri
Application May 25, 1940, Serial No. 337,182
18 Claims. (Cl. 123—136)



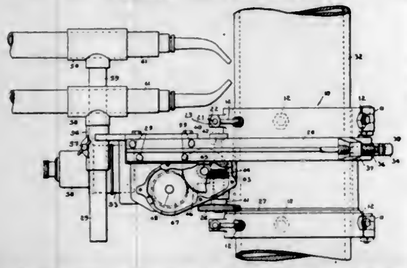
1. Safety apparatus comprising a body located at a higher elevation and having a liquid inlet connection with a tank at a lower elevation, a liquid outlet connection to fuel suction apparatus including an intake manifold and a pump, said pump also being at a lower elevation and below the tank, a bleeder valve at the higher elevation biased to an open position to communicate air to the connection with the tank, and means responsive to suction of said fuel suction apparatus adapted to close said valve when the suction apparatus operates.

2,284,710
VACUUM PLUMBING
Vladimir K. Zworykin, Philadelphia, Pa., and John E. Ruedy, Merchantville, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application June 1, 1940, Serial No. 338,330
10 Claims. (Cl. 250—49.5)



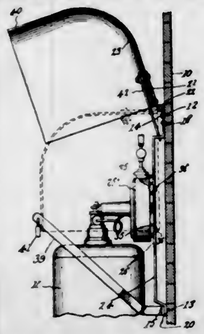
1. Vacuum apparatus comprising a main chamber and an auxiliary chamber having aligned openings therein, a stop cock having a flow opening adapted to connect said chamber openings, a support for an object mounted for longitudinal and tiltable movement in said auxiliary chamber, means for moving said support into said main chamber through said openings, said openings and said main chamber being of a diameter greater than is required to accommodate said support whereby said support may be entered into said main chamber through said openings and tilted therein, and means for tilting said support within said openings and relative to said main chamber, whereby to orient said object within said chamber.

2,284,711
PIPE CUTTING MACHINE
James L. Anderson, Closter, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application May 7, 1940, Serial No. 333,719
4 Claims. (Cl. 266—23)



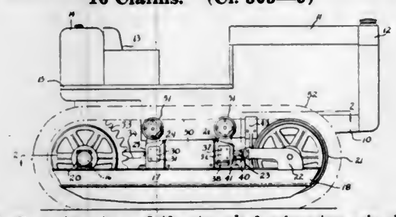
1. A cutting machine for upwardly extending pipes comprising a clamp that surrounds and grips the pipe, said clamp having a substantial width or vertical extent along the pipe, a torch support movable around the circumference of the clamp, and means by which the torch support is held in a definite spaced relation to the clamp including three rollers in contact with the clamp at angularly spaced points around the circumference of the clamp, all of the rollers on the same side of the pipe as the center of gravity of the torch support being at a different and lower level from the roller on the other side.

2,284,712
BACKPLATE FOR GAS INSTALLATION HOUSINGS
Peter A. Anderson, Portland, Maine, assignor to Utilities Distributors, Inc., Portland, Maine, a corporation of Maine
Application March 17, 1941, Serial No. 383,830
3 Claims. (Cl. 312—112)



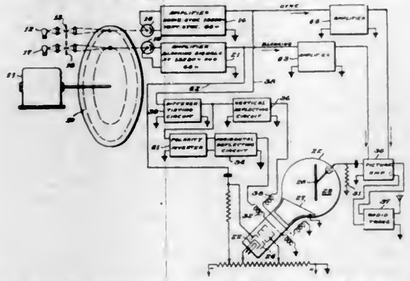
1. A gas installation housing comprising a back plate having attaching sections spaced apart and in substantially the same plane, said backplate having an intermediate forwardly-offset section providing a space between said offset section and the support, said offset section having vertically elongated slots therein of various vertical lengths situated in spaced relation vertically from one another and having enlarged upper portions, said offset section also having vertically elongated slots located in spaced relation to opposite sides of the first mentioned slots and in vertically-stepped relation to one another and having enlarged openings in their upper portions, whereby instruments having variously spaced headed fastenings thereon may be removably secured to said back plate by passing the headed fastenings through the enlarged upper portions of selected slots in said back plate, a hood carried by the upper portion of said backplate for enveloping said instrument, and a locking means for the hood also carried by said offset section.

2,284,713
TRACTOR
David B. Baker, Riverside, Clifford R. Rogers, Oak Park, and William O. Bechman, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application March 18, 1938, Serial No. 196,612
16 Claims. (Cl. 305—9)



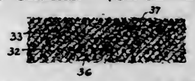
7. In a tractor of the track-laying type including a longitudinal body, a longitudinal track frame disposed at one side of the body and connected to the body for movement with respect thereto, a brace means carried by the body, a front idler wheel on the track frame, an equalizer member disposed transversely of the body and having a portion resting on the track frame, and a longitudinally extending recoil spring assembly arranged on the track frame and connected to the front idler wheel, the combination with the track frame of a housing structure rigidly carried by the track frame and enclosing and supporting portions of the coil spring assembly, said structure further enclosing the portion of the equalizer that rests on the track frame, and means connecting the housing structure and the brace means.

2,284,714
TELEVISION SYSTEM
Alda V. Bedford, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 18, 1937, Serial No. 180,493
8 Claims. (Cl. 178—6.8)



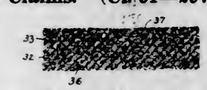
1. In a picture transmitting system, the method of synchronizing scanning at the receiver with scanning at the transmitter which comprises transmitting one group of synchronizing impulses each having a steep front side and having a gradually sloping back side and transmitting another group of synchronizing impulses each having a steep back side and a gradually sloping front side, intercepting said impluses at the receiver and substantially differentiating them, and utilizing the differentiated signals for synchronizing the scanning at the receiver.

2,284,715
ABRASIVE ARTICLE
Raymond C. Benner and Romie L. Melton, Niagara Falls, N. Y., assignors to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
Application January 22, 1941, Serial No. 375,513
13 Claims. (Cl. 51—185)



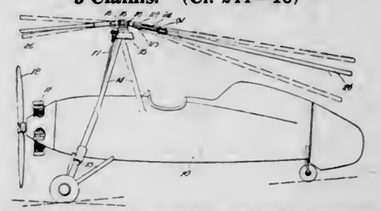
1. A flexible abrasive web of felted fibrous materials impregnated with suitable adhesive binder and having abrasive grain distributed internally of the web, said web having an abrasive grain content progressively greater from one surface of the web to the opposing web surface.

2,284,716
MANUFACTURE OF ABRASIVE ARTICLES
Raymond C. Benner and Romie L. Melton, Niagara Falls, N. Y., assignors to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
Application January 22, 1941, Serial No. 375,514
9 Claims. (Cl. 51—297)



1. The process of manufacturing flexible abrasive webs which comprises feeding a plurality of thin carded fibrous membranes onto a moving endless support, applying abrasive grain to the deposited fibrous membranes, alternating the deposition of additional fibrous membranes and abrasive grain until the web has been built up to the desired thickness, applying suitable adhesive binder and compacting the web.

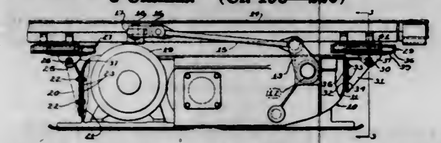
2,284,717
AIRCRAFT SUSTAINING ROTOR
James Allan Jamieson Bennett, Esher, England, assignor to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware
Application April 26, 1939, Serial No. 270,218
In Great Britain April 28, 1938
5 Claims. (Cl. 244—18)



1. In an aircraft sustaining rotor comprising a hub and a blade, mechanism connecting the

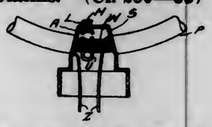
blade to the hub including a pivotal articulation whose axis intersects the general plane of rotation in a position to accommodate leading and lagging movement of the blade relative to the hub and which is resistant to twisting in planes containing its axis, and a resilient device resistant to displacement of the blade about said pivotal articulation, said device comprising an elongated resilient member having its ends operatively associated respectively with an element of the blade and an element of said connecting mechanism, one of said ends being fixedly secured to its associated element and the other end being in sliding cooperation with its associated element, and means whereby the distance between the point of fixation and the point of sliding cooperation may be varied to change the natural frequency of said member.

2,284,718
DRIVE MECHANISM FOR SHAKER CONVEYERS
Ernst R. Bergmann, Evergreen Park, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application January 23, 1941, Serial No. 375,607
3 Claims. (Cl. 198—220)



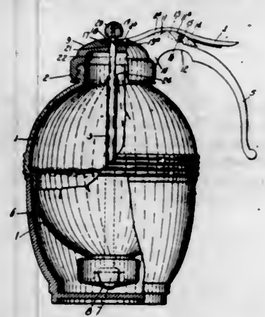
1. In a support for a driving trough section of a shaker conveyer and in combination with a shaker conveyer drive mechanism having a casing, drive means connecting said drive mechanism with said driving trough section, for reciprocably driving said trough section, and means for adjustably supporting said driving trough section on opposite ends of said casing to conform to the conveyer trough line and for reciprocably guiding and holding said driving trough section from lateral and vertical displacement in all positions of adjustment of said trough section with respect to said casing and said drive means during reciprocation thereof including a pair of transversely pivoted ball frames adjustably supported on opposite ends of said casing and having said driving trough section secured thereto.

2,284,719
ARRANGEMENT FOR CONTROLLING THE INDUCTANCES OF LOOP ANTENNAS
Fritz Bergtold, Munich, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application October 24, 1939, Serial No. 300,938
In Germany September 30, 1938
4 Claims. (Cl. 250—33)



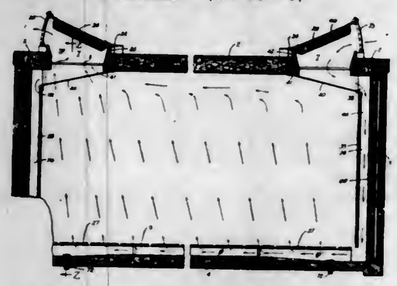
4. A device of the character described comprising a loop antenna having a shield which is electrically open circuited at a point on the circumference thereof, an inductance adjusting element enclosing said loop at said point, said adjusting element comprising at least two relatively movable members of magnetically permeable material, and means for moving one of said members with respect to the other to vary the magnetic permeability of said element.

2,284,720
FOOD DISPENSING DEVICE
Georges Binon, New York, N. Y., assignor, by mesne assignments, to Frank E. Wolcott, West Hartford, Conn.
Application October 19, 1938, Serial No. 235,869
16 Claims. (Cl. 221—67)



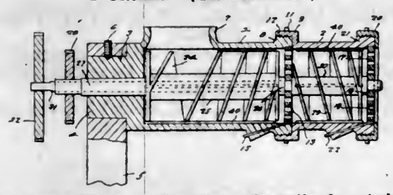
1. In a dispensing device, a receptacle having an open top and a bottom outlet, a cover closing said top, a valve closing said outlet and having an operating rod projecting through said cover, a valve rod operating lever carried by said cover, an abutment on the projecting end of said rod above said lever, and means for normally pressing down said rod including a spring normally maintaining said lever out of contact with said abutment.

2,284,721
RAILWAY CAR CONSTRUCTION
Charles D. Bonsall, Pittsburgh, Pa., assignor, by mesne assignments, to Standard Railway Devices Company, a corporation of Delaware
Application April 20, 1939, Serial No. 269,005
9 Claims. (Cl. 98—6)



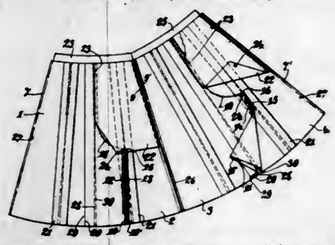
1. In a refrigerator having a hatch in the roof adjacent each end of the car and a foraminous rack for supporting a lading on the floor of the car and providing a space therebetween, the combination of a flue associated with each end wall of the car communicating with said space, a pan substantially below each of said hatches arranged to direct air flowing therethrough to the adjacent flue, outlets for the escape of air from the lading compartment of the car through said hatches, and means to trap moisture entering said hatches.

2,284,722
GRINDING MACHINE
Jake Claude Burns, Grand Junction, Colo., assignor of one-half to Robert L. Brunner, Grand Junction, Colo.
Application June 7, 1941, Serial No. 397,100
1 Claim. (Cl. 146—187)



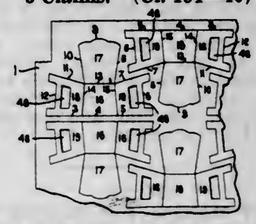
In a machine of the class described, a tubular casing having a front discharge end and a top feed opening therein adjacent the rear end thereof, a pair of perforated primary and secondary extrusion disks fixed in said casing the former at the front end thereof and the latter intermediate the ends of the casing, said disks dividing the casing into front and rear chambers and the perforations in the secondary disk being smaller than those in the primary disk, a pair of primary and secondary feeding units in the front and rear chambers, respectively, each including a helical blade in the axis of the casing and forming a feed worm substantially filling the chamber, said blades of said units being pitched oppositely, relatively, and said units being relatively rotatable in opposite directions, and means for rotating said units in opposite directions relatively and simultaneously at different speeds, comprising a tubular core for one unit having an end extending out of one end of said casing and journaled at said end, an axial shaft-like extension on the other unit extending through said core with one end projecting out of the same, said extension being rotatably fitted in said core, and gearing comprising a pair of relatively large and small gears fast on the projecting end of the extension and on the extending end of said core, respectively.

2,284,723
CONVERTIBLE GARMENT
Alexander Chessin, Yonkers, N. Y.
Application March 6, 1941, Serial No. 381,932
2 Claims. (Cl. 2—213)



1. A convertible garment comprising a pair of front and a pair of rear panels, the top edges whereof form the waist line of said garment, the inner edges of said panels having substantially straight upper and lower portions and a downwardly and outwardly curved connecting portion, the front panels and the rear panels respectively being sewn together along said upper straight and said connecting curved portions, forming the central body seams of the garment and each front panel being permanently united with the corresponding rear panel at the sides of the garment, means for separably uniting each front panel with the corresponding rear panel along said lower portions of the inner edges, said means also serving to separably unite the front panels and the rear panels respectively along the said lower portions of said inner edges, front and rear crotch portions formed by the front and rear panels respectively when the front panels are united to their corresponding rear panels along their inner edges, said crotch portions having a separable fastener thereon and being detachably secured in place underneath said panels by means of a member supported from said waist line and carrying a cooperating fastener when said front and rear panels respectively are united along their inner edges and the garment is worn as a skirt.

2,284,724
METHOD OF MAKING JOINTED TOYS AND OTHER ARTICLES
Clifford C. Church, Needham, Mass.
Application June 22, 1940, Serial No. 341,910
3 Claims. (Cl. 154—40)



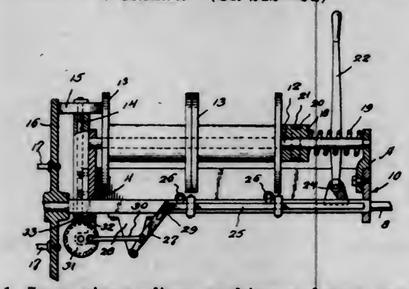
1. The method of making articles formed of sections hinged together which consists in die-cutting from each of a plurality of sheets but without removing therefrom sections corresponding in shape and size to the separate parts of the article that are to be hinged together and with the edges of the sections that are ultimately to be hingedly connected in abutting relation, placing hinge-forming members on the sections of one sheet in a position to extend across the lines of cut between the sections that are to be hinged together, superposing a second die-cut sheet on the first sheet with the die-cut sections of the two sheets registering with each other, adhesively uniting the sheets, and then forcing from the adhesively united sheets the adhesively united die-cut sections as a unit and while connected by the hinge-forming members.

2,284,725
PACKAGED SUTURE AND METHOD AND APPARATUS FOR PACKAGING THE SAME
Haldane Cleminson, Chicago, Ill.
Application April 11, 1941, Serial No. 387,999
3 Claims. (Cl. 128—335.5)



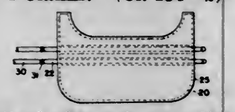
1. The method of packaging sutures which comprises mounting the end of a suture in a bacteria proof fibrous plug adapted to fit in a glass tube, coiling the suture on a suitable support in substantially helical coils, giving the helical coils of the suture a predetermined set by the application of a predetermined degree of heat, removing the suture and plug from said support and placing them in said glass tube with the plug spaced from the open end of the tube, and confining the suture in the tube, and sterilizing the tube and its contents, whereby the suture may be removed by pulling out of said plug a predetermined amount of the suture, as required.

2,284,726
WIRE REELING MACHINE
Mark Coulter, Sharon, Pa.
Application September 3, 1941, Serial No. 409,411
2 Claims. (Cl. 242—91)



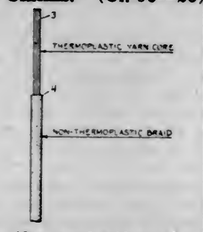
1. In a wire reeling machine, a frame, ground wheels supporting said frame, a reel shaft removably supported on said frame, a reel rotatably and slidably mounted on the reel shaft, a drive shaft journaled on said frame, a friction disc secured to said drive shaft, a second friction disc secured to one of the wheels and engaging the first friction disc, and manually controlled means for engaging and disengaging the reel with the first friction disc.

2,284,727
METHOD OF MAKING DECORATED FABRIC
George R. Cunnington, Grosse Pointe Park, Mich., assignor to National Automotive Fibres, Inc., Detroit, Mich., a corporation of Delaware
Application May 19, 1941, Serial No. 394,228
4 Claims. (Cl. 154—2)



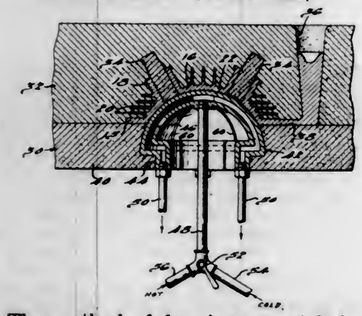
1. The method of forming a relief design in a fabric which comprises forming said fabric over the front of a substantially unyieldable, removable riser, securing said fabric at the sides of said riser to a reinforcing sheeting at the rear of said riser, securing a permanent riser element formed of soft, yieldable material to one end of said removable riser, and withdrawing said removable riser from between said fabric and sheeting in a manner to draw said permanent riser into the space formerly occupied by said removable riser.

2,284,728
BRAID
Camille Dreyfus, New York, N. Y.
Application January 9, 1941, Serial No. 373,833
19 Claims. (Cl. 96—26)



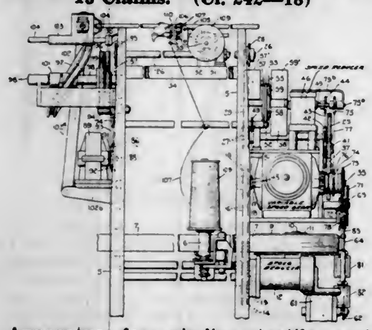
1. Process for the production of a compact textile braid, which comprises braiding yarns of a non-thermoplastic textile material about a core consisting of yarn comprising a thermoplastic textile material and then bonding the braided outer yarns to the core yarn by coalescing substantially the entire core yarn.

2,284,729
METHOD OF CASTING FINNED CYLINDER HEADS
Julius Dusevoir, Dearborn, Mich., assignor to Century Motors Corporation, Dearborn, Mich., a corporation of Michigan
Application October 6, 1941, Serial No. 413,739
16 Claims. (Cl. 22—126)



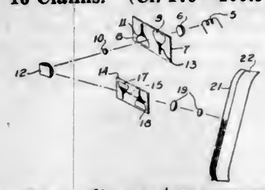
1. The method of forming a cast light metal cylinder head having a relatively thick body provided with a multiplicity of relatively thin cooling fins on one side thereof and formed to provide a combustion chamber cavity on the opposite side thereof, comprising the steps of casting molten metal to substantially the size, shape and contour of said head, protecting said finned side of said molten metal casting against rapid loss of heat from the surface thereof, and only after said molten metal has partially set but is still in partially molten condition rapidly withdrawing heat from said opposite side thereof.

2,284,730
TEXTILE MACHINE
William J. Elvin, Frostburg, Md., Raymond D. Reel, Keyser, W. Va., and Elmer R. Stahl, Meyersdale, Pa., assignors to Celanese Corporation of America, a corporation of Delaware
Application February 9, 1940, Serial No. 318,028
13 Claims. (Cl. 242—18)



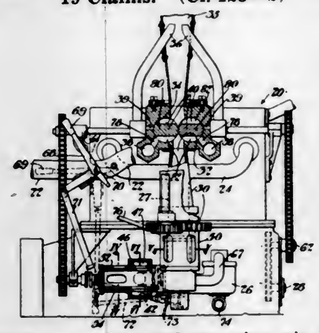
1. Apparatus for winding textile packages, comprising a spindle for holding and rotating a package to be wound, variable-speed driving means for rotating said spindle, control means in connection with said driving means for varying the speed of said spindle, and a positive driving connection between said spindle and said control means whereby said speed is held in predetermined relation to the number of revolutions already executed by said spindle in the winding of said package.

2,284,731
SYSTEM FOR THE RECORDING OF SOUND
Irl R. Goshaw, Beverly Hills, Calif., assignor to Radio Corporation of America, a corporation of Delaware
Application May 25, 1940, Serial No. 337,191
16 Claims. (Cl. 179—100.3)



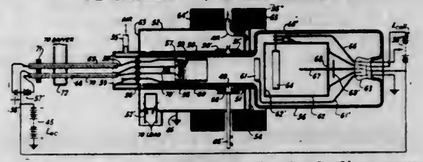
1. A sound recording system comprising means for obtaining a plurality of light beams, and means for varying the light values of said beams in accordance with a signal, said light beams having a certain intensity and varying in dimensions as a class A recording for amplitudes of said signal within a certain amplitude range of said signal, and varying similarly in dimensions as a combination class A and class B recording for another amplitude range of said signal, said beams having a different intensity when varying as a combination class A and class B recording, the variations in said light beams corresponding to the amplitudes of said signal at all amplitudes thereof.

2,284,732
ENGINE SUPERCHARGING
Robert G. Griswold and Johann J. Wydler, Westfield, N. J., assignors, by mesne assignments, to Cities Service Oil Company, New York, N. Y., a corporation of Pennsylvania
Application November 12, 1938, Serial No. 240,014
19 Claims. (Cl. 123—2)



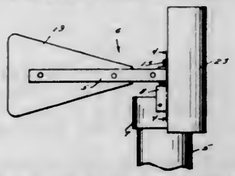
1. In compressing and pumping air, the steps comprising trapping a body of air in a chamber at substantially atmospheric pressure, introducing a controlled volume of gas under pressure into one end of said chamber thereby displacing the air from the gas inlet end of the chamber and compressing the air to a balancing pressure while preventing substantial intermixing of the air and gas and while trapping the gas against escape, discharging the compressed air from the chamber while filling the chamber with gas, developing a partial vacuum by discharging another portion of the gas in a high velocity expanding column, and utilizing the partial vacuum to induce discharge of gas from the chamber by aspiration and to scavenge the chamber with a new supply of air at atmospheric pressure before repeating the cycle.

2,284,733
ELECTRON DISCHARGE DEVICE
Andrew V. Haeff, East Orange, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 31, 1939, Serial No. 292,812
11 Claims. (Cl. 250—27.5)



1. An electron discharge tube including means for projecting a beam of electrons, means for modulating said beam of electrons, an accelerating electrode for said beam of electrons and a collecting electrode for collecting the electrons after their passage past said accelerating electrode, all said means being in said tube in the order named, said collecting electrode comprising an elongated cup-shaped member with its open end in position to receive the beam of electrons, and a ring-like electrode within said cup-shaped member and adjacent the open end thereof for providing a field at a lower potential than that of said collecting electrode.

2,284,734
CHIMNEY WIND PROTECTOR
John P. Hansen, Eyota, Minn.
Application May 1, 1941, Serial No. 391,433
1 Claim. (Cl. 98—71)



In a protector for a chimney pipe to prevent down draft, an annular frame for telescoping over the upper end of said pipe, a centrally bored strap of inverted U-shape spanning the top of said frame diametrically in elevated position and having legs secured to opposite sides of said frame, a shorter centrally bored strap of U-shape depending from the first strap and fixed thereto, a vertical rod passing through the bores of said straps and extending above the same, a horizontal shank having a central hub rotatable on the rod above the first-mentioned strap, a pair of nuts threaded onto said rod above and below said hub, respectively, and forming end thrust collars therefor, a vane on one end of said shank, and a transversely curved vertical shield on the other end of the shank extending downwardly below the upper end of said pipe.

2,284,735
RING FOR PACKAGES AND METHOD OF MAKING THE SAME
Charles G. Hensley, Brooklyn, N. Y., assignor to Theodora B. Frost, Baldwin, N. Y.
Application January 24, 1938, Serial No. 186,623
7 Claims. (Cl. 206—44)

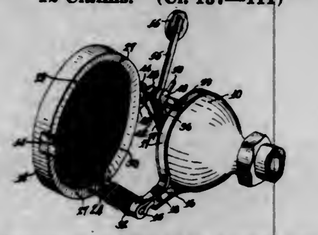
1. A ring for application to a plate or support

to secure a cover sheet thereto and form a package, consisting of a strip of fibrous material having a portion of one face intermediate the side edges removed to form a groove extending lengthwise of the strip and shaped to ring form



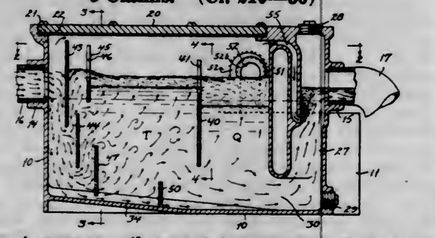
with the groove on the inside and secured at the ends, said groove when the ring is applied to the plate or support engaging the perimeter of the plate or support with the walls of the groove clamping the cover sheet to opposite faces thereof.

2,284,736
DEFLECTOR FOR HOT WATER SHOWER FLOW
Robert Hetherington, Sharon Hill, Pa.
Application February 5, 1940, Serial No. 317,273
12 Claims. (Cl. 137—111)



1. A throttling deflector for shower head water flow comprising a shallow pan adapted to have its open face disposed toward the shower head and having a screen across the open face spaced from the closed face.

2,284,737
APPARATUS FOR SEPARATING LIQUIDS OF DIFFERENT SPECIFIC GRAVITIES
Joseph Hirshstein, Shaker Heights, Ohio, assignor to Ruth Newman and Mildred Hirshstein, Cleveland, Ohio
Application October 4, 1938, Serial No. 233,225
5 Claims. (Cl. 210—56)



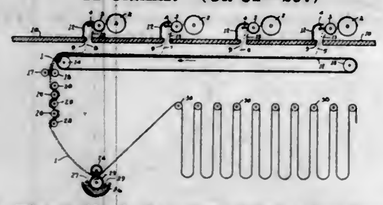
1. A grease, oil and fat-retrieving device, of the air-cooled type adapted to function under continuous flow condition, comprising a receptacle having an inlet branch and an outlet branch, a partition wall disposed within the receptable between the inlet and outlet ends thereof, to divide the receptable into two zones, in one of which turbulence in the waste water flowing into the receptacle is created, and in the other of which the waste water is relatively quiescent, and baffling means disposed adjacent the inlet opening of the receptacle serving to divide inflowing waste waters into two auxiliary streams and a main stream, said baffling means serving to direct one of the auxiliary streams being directed toward the outlet immediately adjacent the bottom of the receptacle, and the other auxiliary stream upwardly and then horizontally against separated grease, oils or fats, and the main stream into said turbulent zone of the receptacle to therein effect separation of grease, oils or fats contained in the inflowing waste water.

2,284,738
ABRASIVE MATERIAL
Edward Hurst, West Newton, Mass., assignor to United Cotton Products Company, Fall River, Mass., a corporation of Massachusetts
Application January 22, 1941, Serial No. 375,515
17 Claims. (Cl. 51—185)



1. An abrasive article comprising a fibrous web formed from a plurality of carded fibrous membranes the individual fibers of which are interlocked and interwoven forming interstices therebetween and making a substantially unlaminated web structure, the interstices of said web containing included abrasive grains anchored with a suitable adhesive.

2,284,739
MANUFACTURE OF ABRASIVE MATERIALS
Edward Hurst, West Newton, Mass., assignor to United Cotton Products Company, Fall River, Mass., a corporation of Massachusetts
Application January 22, 1941, Serial No. 375,516
11 Claims. (Cl. 51—297)

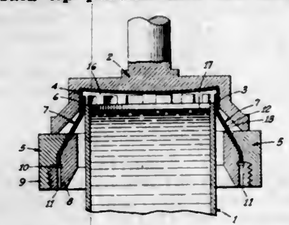


1. The method of manufacturing abrasive webs which comprises feeding a plurality of carded fibrous membranes onto a moving support, agitating the fibers of said membranes to bring the fibers of each of said membranes into interlocking engagement with the fibers of adjoining membranes, forming a mixture of abrasive grain and a suitable adhesive binder, applying said mixture to the surface of the fibrous web, allowing the abrasive grain and adhesive to permeate into the interstices between the fibers of the loose web structure, and consolidating the web to the desired density.

2,284,740
DEVICE FOR CAPPING CONTAINERS
Arch C. Huston, Los Angeles, Calif.
Application December 19, 1938, Serial No. 246,630
7 Claims. (Cl. 226—80)

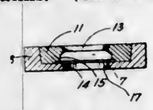
1. In a device for guiding cup-shaped caps having a depending lip portion into place upon a tubular container with said lip encompassing

one end thereof, the combination of: a supporting member; a spring finger carried by said supporting member in a position to be interposed between said lip portion and one end of said



container; and a conduit enclosed within said finger for conducting to the atmosphere air trapped within said container when said cap is guided into place thereon.

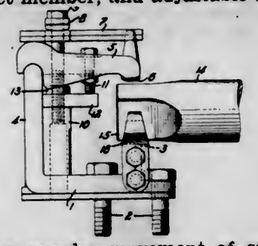
2,284,741
MOLD FOR FORMING PARTS OF JOINTS ON BELL AND SPIGOT PIPES
James C. Johnston, Cleveland, Ohio
Application May 3, 1937, Serial No. 140,414
3 Claims. (Cl. 25—128)



1. A mold for use in molding an annular body of sealing material within the bell end of a section of bell-and-spigot pipe, which mold comprises a ring having a frusto-conical exterior surface which with the interior of the bell end of the pipe forms an open topped recess to receive sealing material, the interior of the ring defining a cylindrical surface concentric with the frusto-conical surface on its exterior and of substantially the same diameter as the internal diameter of the body of the pipe, whereby the internal surface of the ring may be visually aligned with the internal surface of the pipe, the internal surface of the ring also including a larger diameter surface adjacent the side of the ring which engages the bottom of the bell of the pipe, whereby the ring and pipe form between them a narrow annular space open to the inside of the ring, the ring having two parallel plane surfaces meeting the frusto-conical surface, and all parts of the mold being positioned between said two plane surfaces, a handle comprising a bar extending diametrically across the ring and integral therewith arranged interiorly of the ring and at its sides spaced therefrom, whereby a tool may be inserted through the interior of the ring into said narrow annular space.

2,284,742
SWITCH JAW
Samuel H. Kast, Greensburg, Pa., assignor to Railway and Industrial Engineering Company, Greensburg, Pa., a corporation of Delaware
Application January 13, 1941, Serial No. 374,287
8 Claims. (Cl. 200—166)

1. In an articulated switch jaw, a metal casting comprising a base section for mounting upon an insulator and an integral contact member projecting from the base section, a second contact member pivoted upon said base and having a contact portion extending substantially parallel to the first contact member, spring means urging said pivoted contact member towards the first contact member, and adjustable stop means

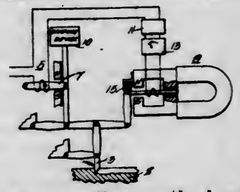


limiting the angular movement of said pivoted member towards said first contact member.

2,284,743
PICKLING AGENT FOR COPPER-BERYLLIUM ALLOYS
Henry C. Kawecki, Temple, Pa., and Wayne E. Martin, Bayside, N. Y., assignors to The Beryllium Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application March 28, 1941, Serial No. 385,690
6 Claims. (Cl. 148—8)

1. A pickling agent for removing scale and metal oxides from the surface of copper-beryllium alloys, said agent consisting of an aqueous solution containing caustic alkali and alkali cyanide.

2,284,744
SOUND RECORDING
Edward W. Kellogg, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 31, 1939, Serial No. 265,081
18 Claims. (Cl. 179—100.4)

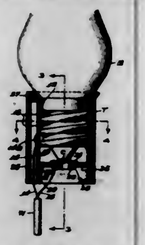


1. The signal recording method which comprises actuating a recording element in accordance with said signals to effect movement thereof corresponding to said signals, and simultaneously causing said element to be displaced from its normal movement by an amount proportional to the slope of the curve being recorded.

2,284,745
LAMP SOCKET
David J. Kelman, New York, N. Y.
Application June 14, 1940, Serial No. 340,449
2 Claims. (Cl. 173—358)

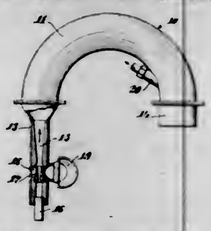
1. An electrical socket for reception of a threaded element, said socket comprising a cylindrical member of insulating material having an open end, and an end wall opposite the open end, an opening in the end wall, and a metallic projection from the wall of the cylinder, said projection being an integral projection of a metallic strip, a recess in the wall of the socket parallel to the axis of the socket, said strip being mounted in the recess, longitudinal flanges on the strip positioning it laterally within the recess and wings on the strip positioning it longitudi-

nally within the recess, and means for establishing electrical connection to said strip, said recess going through the end wall, said wings being positioned against the outer side of said end wall,



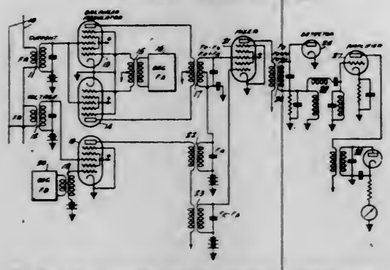
and a rivet secured at the edges of said opening encasing the edges thereof, and an electrical connection to said rivet comprising a wire, the end of said wire secured between a portion of said rivet and said end wall.

2,284,746
GRINDING AND CLASSIFYING DEVICE
Cleo Harold Kidwell, Short Hills, N. J.
Application March 4, 1939, Serial No. 259,819
8 Claims. (Cl. 83—46)



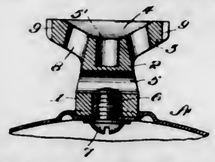
1. In apparatus for reducing material, the combination of a tube of substantially circular cross-section having at least one curved portion therein and a total curvature of at least 180°, means for supplying fluid to the tube for entraining and conveying material therein, and discharge means positioned substantially on the inner curved portion of the tube and extending angularly therefrom in a direction opposite that of the fluid flow, for exhausting reduced material therefrom.

2,284,747
ELECTRICAL MEASURING SYSTEM
Winfield R. Koch, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 27, 1939, Serial No. 281,334
8 Claims. (Cl. 171—95)



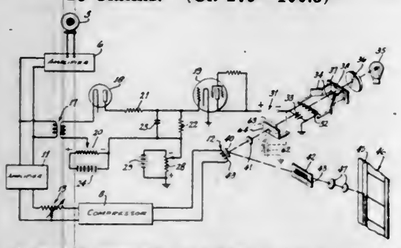
1. In a radio frequency power measuring system, the combination of means for deriving radio frequency potentials proportional respectively to the voltage and current of the power to be measured, means for deriving from said current proportional potential side band components of amplitudes proportional to said current, means for deriving from said voltage responsive potential a radio frequency component whose phase is determined by said voltage, means for mixing said components, and means for detecting the resultant of said mixed components.

2,284,748
HANDLE FOR COOKING UTENSIL LIDS
Adolph George Korenek, Galveston, Tex.
Application April 12, 1941, Serial No. 388,320
2 Claims. (Cl. 16—118)



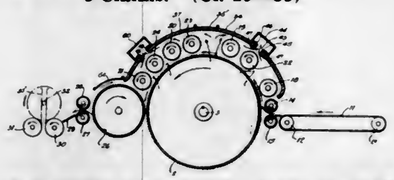
1. A handle for a cooking utensil lid, comprising a body including a base portion, an inwardly tapered portion rising from the base portion and having a ventilating passage therethrough, an annular flange formed on the tapered portion and having ventilating passages therethrough, said body and flange having a concavity in the upper faces thereof, said flange having notches about its periphery to provide cooling fins for cooperation with the passages to retain the handle in a cool condition, said base portion having a bore therein for receiving means to attach the handle to the lid, and said bore communicating with the ventilating passage of the tapered portion to expose the attaching means to the air within the bore.

2,284,749
SYSTEM FOR SOUND RECORDING
Barton Kreuzer, Los Angeles, Calif., and Hillel I. Reiskind, Camden, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application April 2, 1940, Serial No. 327,436
16 Claims. (Cl. 179—100.3)



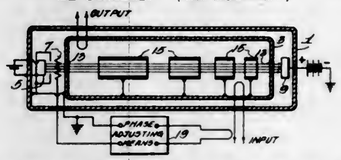
1. A sound recording system comprising a signal source, a light source, means for modulating the intensity of the light from said source in accordance with the instantaneous amplitudes of the signal from said source, means for modulating said light in accordance with the average value of the amplitudes of said signal, and means for varying the rates of modulation of said light by said respective means in accordance with the range of amplitudes being recorded, said average value modulating means remaining ineffective over a certain portion of said range of amplitudes.

2,284,750
DELINTING WASTE PULLER
John T. Landreth, Evanston, Ill., assignor to Spring Packing Corporation, Chicago, Ill., a corporation of Illinois
Application May 7, 1941, Serial No. 392,307
3 Claims. (Cl. 19—83)



3. A de-linting waste puller having a toothed main cylinder and a plurality of worker and stripper rolls journaled outwardly from the main cylinder and spaced laterally from each other, a casing wholly enclosing a top portion of the main cylinder and the worker and stripper rolls, the casing being open at its lower portion and around the ends of the rolls to the atmosphere, the casing having an elongated narrow opening therein radially beyond and extending parallel to, the axis of at least one of the worker rolls, the elongated opening being substantially coextensive with the length of such worker roll, a suction device, a duct connecting the interior of the casing through the elongated opening to an area of reduced pressure generated by the suction device to generate a flow of air within the casing in the immediate vicinity of the worker roll adjacent said opening barely sufficient to support, as air-borne particles, dust and lint released from a waste-making mass of fibers by the operation of the worker roll adjacent to said opening, thereby to localize in the area of maximum dust and lint generation, gentle dust and lint removing air currents for minimum disturbance of the fibers comprising the waste.

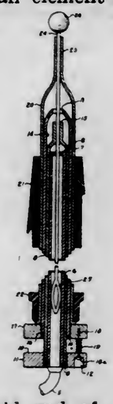
2,284,751
RESONANT CAVITY DEVICE
Ernest G. Linder, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application August 31, 1939, Serial No. 292,798
11 Claims. (Cl. 250—27)



1. A resonant cavity device including in combination a member including a resonant cavity within which a field of standing waves is established, means for projecting electrons within said cavity, and means located within said cavity for shielding said electrons so that alternate half cycles of the field of standing waves within said cavity react upon said electrons.

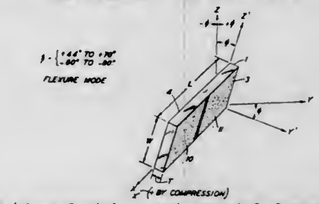
2,284,752
AUTOMOBILE ANTENNA
Arthur T. Mace, East Cleveland, Ohio, assignor to The Radiart Corporation, Cleveland, Ohio, a corporation of Ohio
Application August 3, 1939, Serial No. 288,159
8 Claims. (Cl. 189—26)

1. A device of the character described comprising an inner supporting tube, an outer tube, two intermediate tubes, all of said tubes being nested each of said tubes having one end open and being independently movable with respect to each other, and an element projecting through



said openings, said end of one of said intermediate tubes forming collet jaws and said end of the other of said intermediate tubes forming a complementary collet whereby said element may be locked by said jaws and moved with respect to said outer tube.

2,284,753
PIEZOELECTRIC CRYSTAL APPARATUS
Warren P. Mason, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 20, 1940, Serial No. 357,515
16 Claims. (Cl. 171—327)

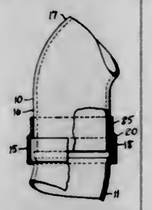


1. A piezoelectric quartz crystal element adapted to vibrate at a flexure mode frequency of low temperature coefficient dependent mainly upon the length and width dimensions of its major surfaces, said length dimension being substantially parallel to an X axis, said width dimension and said major surfaces being inclined at one of the angles within the range substantially from +44 to +70 and from −60 to −80 degrees with respect to the Z axis, the ratio of said width dimension of said major surfaces with respect to said length dimension thereof being one of the values within the range from substantially 0.05 to 0.5, said length dimension expressed in centimeters being one of the values between 20 and 190 divided by the value of said frequency expressed in kilocycles per second.

2,284,754
PLUMBING CONSTRUCTION
James W. McGarry, Waterbury, Conn., assignor to Chase Brass & Copper Co. Incorporated, Waterbury, Conn., a corporation
Application August 31, 1940, Serial No. 354,941
1 Claim. (Cl. 285—115)

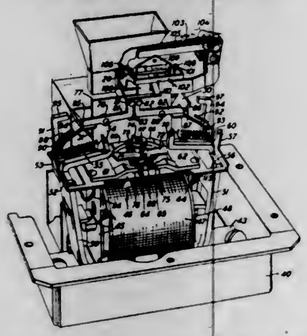
In combination with a tubular joint in which

the ends of two tubular members are in telescoped sweat-soldered relation with one another, and which tubular joint may be of damaged appearance as a result of the soldering operation; an annular shield for covering said tubular joint, said annular shield having two annular portions of different diameters, their junction being an annular shoulder which is adapted to engage



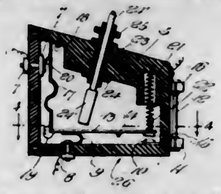
against the end portion of the outer one of said tubular telescoped ends, and said two annular portions being adapted to respectively surround and cover adjacent portions of said tubular members, and said annular shield being adapted to be moved from a position beyond the joint in which position the joint is uncovered, axially to a position overlying the joint.

2,284,755
COIN COLLECTOR APPARATUS
John M. Melick, Cresskill, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Original application January 11, 1940, Serial No. 313,329. Divided and this application September 24, 1940, Serial No. 358,063
6 Claims. (Cl. 175—339)



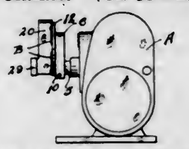
2. An electromagnet comprising a winding, a core for said winding, a rotatable member comprising a permanent magnet lying in the field of said electromagnet and adapted to rotate to an advanced position in a clockwise or counterclockwise direction determined by the polarity of the voltage applied to said winding, means for biasing said member to a neutral position in the absence of applied voltage, a pair of independently movable armatures for said electromagnet, and means carried by said member and comprising a mechanical barrier normally lying in the path of movement of each armature for locking both armatures in their non-operated position when said member is in its neutral position and for selectively releasing one of said armatures in accordance with the polarity of the applied voltage when said member has assumed an advanced position.

2,284,756
AUTOMATIC ELECTRIC SWITCH
Alex Meyer, Fort Morgan, Colo.
Application July 28, 1941, Serial No. 404,413
3 Claims. (Cl. 200—116)



2. In an automatic electric switch, an insulated casing, first and second terminals located on said casing, a contact carried by said casing, a movable bar carried by said casing to engage either the contact or the second terminal, a spring carried by said casing and bearing against one end of the bar to engage the latter with said contact, a bi-metal element mounted in said casing and electrically connected to the first terminal and adapted to engage the bar to hold the latter in engagement with the second terminal, and a flexible element connected to the bar and the bi-metal element.

2,284,757
PARALLAX-FREE VIEW FINDER WITH AUXILIARY LENS TURRET
Alton W. Morton, Salt Lake City, Utah
Application October 18, 1939, Serial No. 299,946
3 Claims. (Cl. 88—1.5)

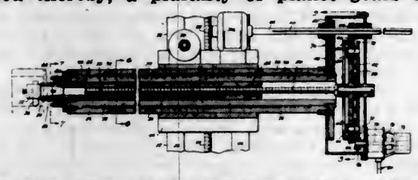


1. A device of the class described comprising a round turret plate having an annular row of spaced apart openings therein; auxiliary lenses mounted in all but one of said openings; a hollow shaft, square in cross section, mounted diametrically across the face of said turret with the bottom end of the shaft formed at right angles and extending out in axial alignment with one of said openings; a lens mounted in the top end of said shaft and another lens mounted in the right angled end thereof; a mirror mounted on an angle across the inner juncture of the right angled end and shaft; a bracket to which the turret is rotatably mounted said bracket having one end perforated in axial alignment with the openings in the turret plate and being adapted to be secured around the tubular lens mount of the camera on which the device is installed for use.

2,284,758
CUTTING MACHINE
Henry Earl Morton, Muskegon, and Oren G. Rutemiller, Detroit, Mich.; said Morton assignor to Morton Manufacturing Company, Muskegon Heights, Mich., a corporation of Michigan, and said Rutemiller assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 9, 1941, Serial No. 397,248
5 Claims. (Cl. 77—3)

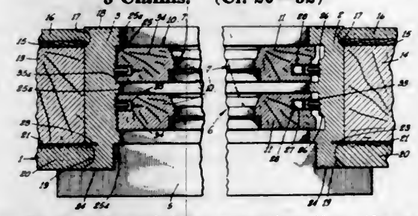
1. In an apparatus of the character described, a pair of movable members co-adapted to prevent rectilinear movement relatively one to the

other during rotation of both at a common speed and to permit such relative rectilinear movement during relative rotation therebetween, one of said members being rotated at a predetermined speed and the other of said members having a sun gear carried thereon for rotating said last mentioned member, drive means, gear means in operative engagement with said drive means for being rotated thereby, a plurality of planet gears ar-



ranged between said gear means and said sun gear for being rotated by the former to rotate the latter, supporting means normally supporting said planet gears for rotation exclusively about their axes so that the rotative speed of said other member is the same as said predetermined speed, and means for selectively moving said supporting means to move said planet gears about the axis of said sun gear so that said other member is caused to rotate relatively to said one member.

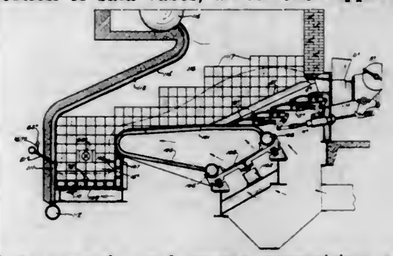
2,284,759
SASH AND FRAME CONSTRUCTION
Judson C. Murphy, San Marino, and Howard B. Coldren, Compton, Calif.
Application June 4, 1940, Serial No. 338,704
5 Claims. (Cl. 20—52)



1. In a sash and frame construction, the combination of: a frame including a pair of spaced parallelly extending jambs each carrying a longitudinally extending track means on the inwardly directed face thereof; a sash slidably retained between said jambs; and a weather sealing unit for each of said jambs including a stiff resilient member extending longitudinally of said jamb carried by said sash for slidable movement therewith in a position engaging said jamb and having an outwardly directed portion conforming to the shape of said track means, spring means urging said resilient member into pressure engagement with said jamb, and means carried by said member in a position to also engage said jamb for limiting said pressure engagement to a predetermined value.

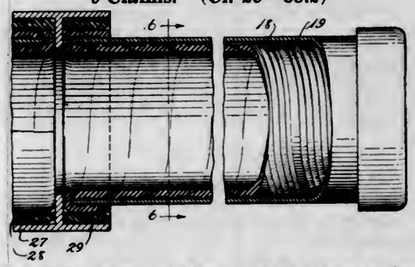
2,284,760
STOKER FURNACE
Charles L. Myers, Merion, Pa., assignor to American Engineering Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application June 3, 1936, Serial No. 83,281. Divided and this application May 20, 1939, Serial No. 274,719
2 Claims. (Cl. 122—4)

2. An overfeed section for stoker furnaces comprising a framework, a pair of spaced headers mounted in said framework, a series of fluid conducting tubes extending substantially horizontally from one of said headers and being bent downwardly and reversely substantially in the form of a U and terminating in the other of said headers, a fuel supporting means mounted on a portion of said tubes, a resilient support for



said framework, and means comprising a vibrating mechanism operatively connected to said framework for imparting rapid vibratory impulses thereto and consequently to said tubes and fuel supporting means whereby the fuel supported on said overfed section is progressively advanced from one end thereof to the other.

2,284,761
RUBBER LINED ARTICLE AND METHOD OF MAKING THE SAME
Tracy D. Nathan, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application August 18, 1938, Serial No. 225,547
9 Claims. (Cl. 29—88.2)

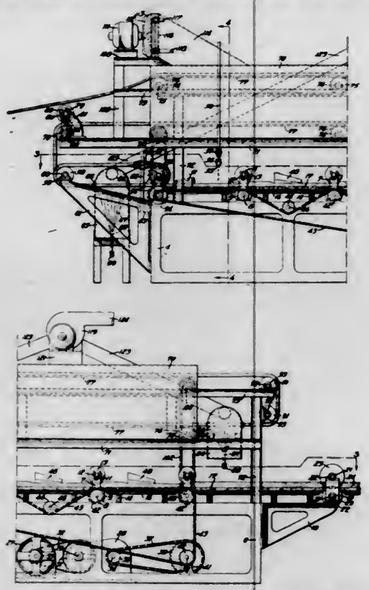


1. A lining for a hollow body having a chamber therein, said lining comprising a tubular body of pliable resilient rubber-like material adapted to be flexed inwardly to provide a buckled portion thereby to reduce its outer dimension for insertion into a chamber of smaller size than the lining, said lining being adapted by outward flexing of said buckled portion to engage the wall of said chamber under circumferential compression of the lining, and said lining having a plurality of outwardly projecting portions of the resilient rubber-like material integral with said lining at its outer surface to press against the wall of the chamber as a result of the circumferential compression of the lining and resiliently cushioning said lining from said wall.

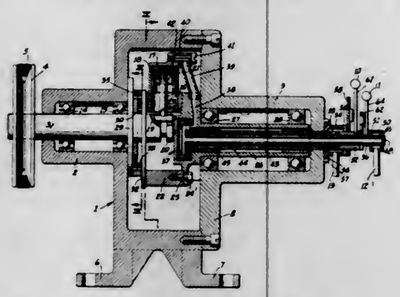
2,284,762
BATT FORMING MACHINE
Burton A. Olsen, Oakland, Calif., assignor to California Cotton Mills Company, Oakland, Calif., a corporation of California
Application July 29, 1940, Serial No. 348,236
8 Claims. (Cl. 154—29)

1. A batt forming machine comprising means for slitting a sheet of material into a plurality of strips, means for conducting said strips along

spaced and substantially parallel paths through said machine, means spaced along said paths for repeatedly transversely folding said strips to form thereof, substantially cylindrical batts, spaced means tractionally engaging and for moving said strips along said paths, means for driving said strip moving means, respectively at different speeds, a drier, means for applying surface coatings to said strips after folding thereof, and means for moving said strips through said drier.



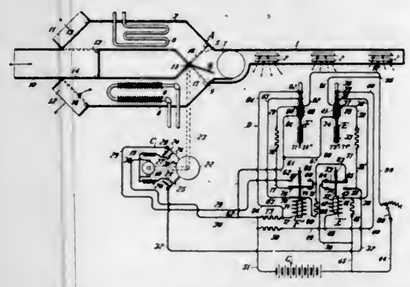
2,284,763
ROTARY ENGINE
Anton J. Olson, Huntington Park, Calif.
Application July 23, 1941, Serial No. 403,645
6 Claims. (Cl. 121—59)



1. In a rotary engine employing a plurality of cylinders with pistons reciprocal therein, a valve construction comprising: a rotatable member defining a plane surface disposed normal to the axis of rotation of said member and having fluid ports therein communicating with each of said cylinders; a stationary member defining an inwardly directed plane face engaging said plane surface and having a fluid passage formed therein and terminating in an opening in said plane face in a position to communicate with each of said ports in succession as said rotatable member rotates; a diaphragm formed of resilient material carried by said stationary member in a position to define an outwardly facing surface disposed in substantial parallelism with said plane face, said diaphragm being exposed to the pressure of fluid in said passage and expansible outwardly thereby; and means on said rotatable member engaging the outer surface of said diaphragm, whereby outward expansion of said diaphragm urges the plane face of said stationary member into pressure sealing engagement with the plane surface of said rotatable member.

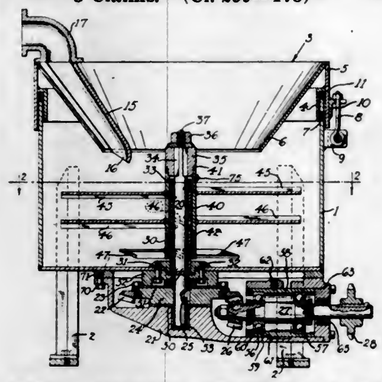
3. In a rotary engine including a crank shaft and a cylinder support mounted for rotary movement about parallel laterally offset axes, a synchronizing tie between said crank shaft and said support comprising a gear mounted on said crank shaft concentrically therewith; another gear mounted on said support concentrically with the axis of rotation thereof, said gears being of equal diameter; and an idler gear drivably inter-engaging said aforementioned gears.

2,284,764
TEMPERATURE CONTROLLED APPARATUS
Paul B. Parks, Oak Park, Ill., assignor to Vapor Car Heating Company, Inc., Chicago, Ill., a corporation of New York
Application March 16, 1939, Serial No. 262,191
8 Claims. (Cl. 236—1)



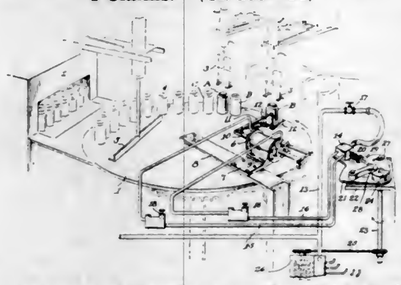
5. The combination with a member movable in opposite directions for respectively increasing or decreasing the rate of heat transfer to or from a space, of means for moving said member comprising a reversible motor mechanism, an energizing circuit for causing operation of the motor mechanism in one direction, a second energizing circuit for causing operation of the motor mechanism in the other direction, a pair of control assemblies each comprising a thermostat, an auxiliary electric heater for the thermostat, a relay, a relay-control circuit that is made and broken by the thermostat, and a heater-energizing circuit that is made and broken by the relay, each relay also functioning to open and close one of the motor energizing circuits, one of the control assemblies functioning only in the temperature range below a predetermined minimum space temperature to adjust the movable member only in a direction to raise the temperature within the space, and the other control assembly functioning only in the range above a predetermined maximum space temperature to adjust the movable member only to decrease the space temperature, the assemblies being ineffective to adjust the movable member while the space temperature is within the normal zone between the predetermined maximum and minimum temperatures.

2,284,765
MIXING APPARATUS
Rex V. Pierce, Long Beach, Calif., assignor, by mesne assignments, to International Cementers, Inc., a corporation of Delaware
Application November 18, 1939, Serial No. 305,119
3 Claims. (Cl. 259—178)



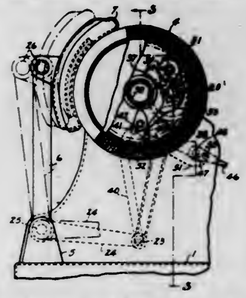
1. Mixing apparatus comprising a mixing chamber having a shaft opening in a wall thereof; a shaft having a portion disposed exteriorly of said chamber and a portion extending through said opening and into said chamber; one or more mixing elements secured to the inner portion of said shaft, said mixing elements subjecting said shaft to inwardly directed axial thrust during operation thereof; driving means on the exterior portion of said shaft; thrust bearing means disposed between said driving means and the outer wall of said chamber and comprising a stationary thrust plate detachably secured to the outer wall of said chamber adjacent said shaft opening, said thrust plate assuming said inwardly directed axial thrust; shaft supporting means detachably secured to the inner wall of said chamber adjacent said shaft opening and having supporting bearing engagement with said shaft adjacent its inner end; and a housing detachably secured to the outer wall of said chamber independently of said thrust plate and enclosing said driving means and thrust plate.

2,284,766
APPARATUS FOR HANDLING GLASSWARE
Carl F. Posten, Zanesville, Ohio, assignor to Hazel-Atlas Glass Company, Wheeling, W. Va., a corporation of West Virginia
Application March 10, 1941, Serial No. 382,647
4 Claims. (Cl. 198—34)



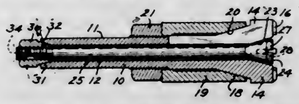
1. A device of the character described, including a rotatable table, periodically operated means for placing two glass articles on the table in widely spaced relation, means for periodically advancing the rearward of said articles toward the forward article and leaving sufficient space for the interposition of another article upon the next operation of the placing means, to form a series of closely spaced articles.

2,284,767
IRONING MACHINE
John W. Racklyeft, Cleveland, Ohio, assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application January 16, 1937, Serial No. 120,959
15 Claims. (Cl. 38—59)



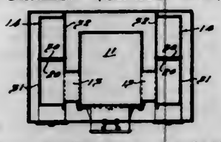
1. A power driven ironing machine comprising the combination with a supporting structure, of an ironing roll mounted upon said structure for rotatable and lateral movements, means for effecting the lateral movement thereof and driving instrumentalities for the roll including a clutch device for controlling the lateral movement of the roll and for also controlling rotation of the roll, a second clutch for producing rotation of the roll, and mechanism inter-connecting the two clutches, whereby actuation of the first clutch actuates the second clutch, the said mechanism comprising a cam located on said first clutch, a yoke operated by the same cam, a shaft operated by the yoke, a pin mounted on the shaft, a second shaft for rotating the roll, one element of said second clutch being mounted upon the second shaft for producing actuation thereof, and a second yoke in engagement with the pin for actuating the second clutch to control rotation of said second shaft.

2,284,768
CUTTING TOOL
Frederick M. Ramsdell, Worcester, Mass.
Application September 19, 1941, Serial No. 411,450
7 Claims. (Cl. 77—76)



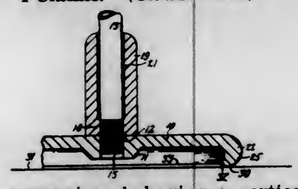
1. A cutting tool comprising an elongated body having a central bore in its forward portion, slots communicating with the bore and extending rearwardly from the front end of the body to divide the front portion thereof into a plurality of forwardly projecting fingers, a cutting blade projecting outwardly from each finger near the front end thereof, axially adjustable means within the front portion of the bore to limit inward flexing of the fingers, and axially adjustable annular means surrounding the fingers rearwardly of the blades to limit outward flexing of the fingers, the outer radius of the said annular means being less than that of the cutting blades.

2,284,769
HEAT EXCHANGER
Harry M. Rogers, Dayton, Ohio, assignor to Chrysler Corporation, Detroit, Mich., a corporation of Delaware
Application August 3, 1940, Serial No. 350,337
3 Claims. (Cl. 257—164)



3. In a warm air furnace, a relatively narrow heat exchanger having an inlet and an outlet, both of which are located in the upper part thereof, and side walls of relatively large area over which air passes to be heated by thermal exchange with the flue gases therein, a plurality of tie-rods extending between said side walls and having their ends integrally united thereto in order rigidly to brace said side walls, and a substantially vertical baffle integrally united to said tie-rods and extending from the top of said heat exchanger to a point spaced a substantial distance from the bottom thereof so as substantially to block direct passage of the flue gases through the heat exchanger from said inlet to said outlet and to cause the major part of the flue gases to flow through said heat exchanger around the lower end of said baffle while passing from said inlet to said outlet, the side edges and upper edge of said baffle being slightly spaced from said side walls and the top of said heat exchanger, respectively, whereby to permit direct passage of a small quantity of flue gases from said inlet to said outlet in order to prevent trapping of unburned gases in the upper part of said heat exchanger and in order to heat said side walls more uniformly when the furnace is in operation.

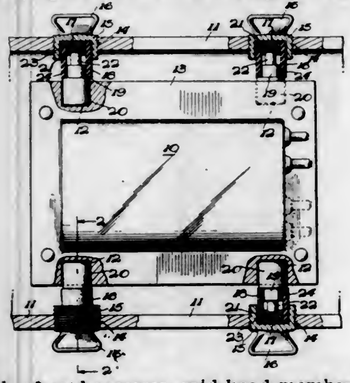
2,284,770
GARMENT RACK
Clemens Scheuer, Forest Hills, N. Y.
Application November 30, 1940, Serial No. 368,013
4 Claims. (Cl. 248—194)



1. In a garment rack having a vertical stem, a base from which said stem rises and comprising a disc having an annular rim of under and outwardly facing arcuate cross section, said rim having an annular portion thereof for resting on the ground, and annular portions outwardly of the first portion and inwardly thereof.

2,284,771
SHOCKPROOF MOUNTING
William A. Schrak, East Orange, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application September 20, 1941, Serial No. 411,727
5 Claims. (Cl. 248—358)

1. A resilient suspension comprising a rigid base, a member to be resiliently suspended on said base, a plurality of cylindrical recesses formed in said member on opposite sides thereof, a threaded aperture formed in said base opposite each of said recesses, a plug threaded therein, said plug having a recessed portion, a section of resilient tubular material carried within said recessed portion and bonded thereto, a resilient plug carried within said tubular material, a cylindrical, rigid head member loosely carried within each of said recesses, said head member having a cylindrical shoulder of less diameter than said head member, said shoulder having said section of tubular resilient material bonded thereto, and a shank portion integral with said head and shoulder projecting into said resilient plug.

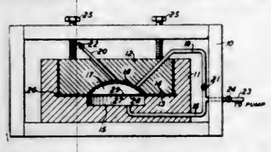


2,284,772
PRODUCTION OF IMPROVED TITANIUM PIGMENTS
George R. Seidel, Baltimore, Md., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 30, 1940, Serial No. 354,833
9 Claims. (Cl. 106—300)

1. A process for the production of improved titanium pigments which comprises simultaneously and seperately introducing into a reaction vessel a titanium pigment suspension, a water-soluble aluminum compound, and a precipitant for said aluminum compound, maintaining the concentration of titanium pigment in said mixture in the range of from about 10 to about 350 grams pigment per liter, maintaining the hydrated aluminum oxide concentration in said mixture in the range of from about 0.05% to about 10% calculated as Al_2O_3 and based upon the weight of the pigment, maintaining a substantially constant pH in said mixture in the range of from about 5 to about 8.5, and withdrawing the pigment suspension from the reaction vessel.

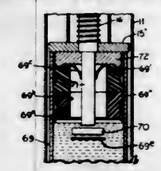
2,284,773
METHOD OF FORMING THIN ARTICLES
Leon J. Sivian, East Orange, N. J., and Edward C. Wente, New York, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 16, 1940, Serial No. 329,842
2 Claims. (Cl. 113—51)

1. The method of forming a non-planar article from a blank of material which comprises mounting the blank of material between and in direct, intimate face-to-face engagement with a pair of impervious pliant members, fixedly mounting the composite element thus formed with one surface in opposition to a rigid surface of the contour desired for the article, applying equal uniformly distributed pressures greater than that necessary to distort said element to opposite surfaces of said element, and relatively decreasing the pressure upon said one surface,



while maintaining said uniformly distributed pressures at magnitudes greater than that necessary to distort said element, sufficiently to allow deformation of said element until limited by said rigid surface.

2,284,774
HYPODERMIC SYRINGE
Arthur E. Smith, Los Angeles, Calif.
Original application November 3, 1933, Serial No. 696,506. Divided and this application May 5, 1939, Serial No. 271,885
6 Claims. (Cl. 128—218)



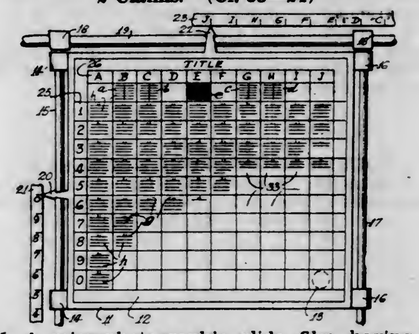
6. A multiple compartment ampule comprising a tubular outer member, a plurality of separators disposed in said member to form separated compartments, the entire peripheral surfaces of said separators located within said member being frictionally sealed to the inner wall of the member, at least two of said separators being normally imperforate and readily pierceable and being slidable in said tubular member.

2,284,775
ULTRA VIOLET LIGHT SOURCE
George Sperti, Covington, Ky., assignor to Science Laboratories, Inc., Norwood, Ohio, a corporation of Ohio
Application August 3, 1940, Serial No. 350,425
9 Claims. (Cl. 176—1)



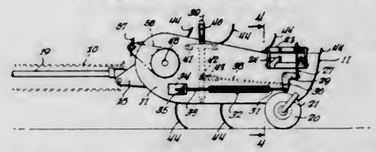
1. In a light source, an envelope, a press at one part of said envelope, a pair of leads passing through said press, one of said leads terminating adjacent said press within said envelope, a nonconductive tubular support sealed to said press, the other of said power leads passing both through said press and through said tubular support to a point remote from said press, each of said power leads bearing electrode structures, resilient means on said power lead at the free end of said tubular support, said resilient means engaging said envelope, and a filament connected between said power leads.

2,284,776
MICROPHOTO INDEXING SYSTEM
Robert Stuart, Forest Hills, Long Island, N. Y.
Application September 30, 1940, Serial No. 359,058
2 Claims. (Cl. 88—24)



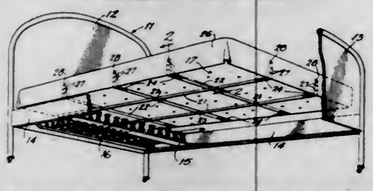
1. A microphotographic slide film having a plurality of rows and columns of separate picture elements and supported in a holder means provided with index arms disposed at right angles to each other for locating any particular picture element and for positioning the same in projecting position in a projecting means, whereby an enlarged image of said picture element may be projected upon a conventional screen for viewing, in combination with a reference microphotographic element in a predetermined location on said slide film, said reference element having index references corresponding with the index of the holder means and the contents associated with each index.

2,284,777
PICKUP MECHANISM
Fred Sund, Newburg, N. Dak.
Application October 13, 1939, Serial No. 299,241
13 Claims. (Cl. 56—364)



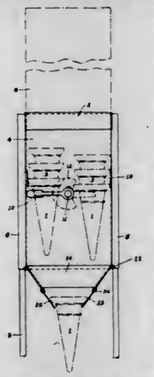
1. In a pick-up mechanism, the combination of a chassis, endless conveyor means on said chassis having a lower forwardly moving stretch, an upper rearwardly moving stretch, and an arcuate forward stretch between said lower and upper stretches, a plurality of rows of pick-up fingers mounted for travel with said conveyor means, and guide means coacting with said conveyor means to cause each row of fingers during their travel through said arcuate stretch to swing through an arc less than the arc traversed by said conveyor means.

2,284,778
SHEET HOLDER FOR BEDS
Theodore R. Treiber, Chicago, Ill.
Application August 24, 1940, Serial No. 354,013
2 Claims. (Cl. 5—320)



1. A sheet holder composed of a plurality of longitudinal fabric strips, a plurality of transverse fabric strips secured to said longitudinal strips, elastic terminal portions secured to both ends of each of said strips, and means upon said elastic portions for securing the ends of said strips to the margins of a sheet extending beyond the edges of the mattress.

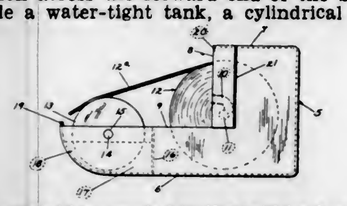
2,284,779
DOUBLE ACTING CONE DISPENSER
Francis W. Turnbull, Chattanooga, Tenn.
Application January 11, 1939, Serial No. 250,379
6 Claims. (Cl. 312—44)



1. A cone dispenser of the character described comprising a base including means for supporting a plurality of vertical stacks of nested ice cream cones through the bottom cone of each stack, additional means for supporting stacks of nested ice cream cones, means for disengaging said supporting means from the bottom cone of each of said first stacks while supporting them by said additional means, and for engaging said supporting means with the bottom cones of said last said stacks, whereby to release the first named bottom cones from said first stacks.

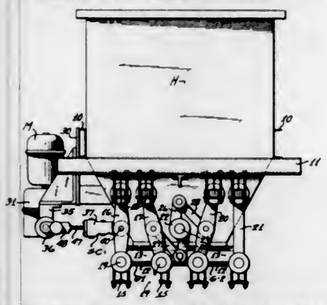
2,284,780
PAPER DISPENSER
Harry T. Vanhooser, Muskogee, Okla.
Application July 29, 1940, Serial No. 348,074
2 Claims. (Cl. 91—14)

1. In a device of the kind described, for mounting upon a support, a container including an elongate, hollow base for horizontal anchorage to the support, a hood upstanding at the rear end of the base, the same being open at its forward side and the forward margins thereof having transversely aligned, arcuate slots directed downwardly at their inner ends and opening out forwardly at their outer ends, to slidably receive the ends of a rod supporting a roll of paper, a partition across the forward end of the base to provide a water-tight tank, a cylindrical water



roller rotatably mounted in the said tank, whereby paper as drawn from a roll within the hood may be drawn out over and in contact with the water roller for moistening the paper, or may be left dry by elevating the paper above the roller.

2,284,781
HOPPER
Willard H. Ward, St. Johnsbury, Vt., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application March 27, 1940, Serial No. 326,137
2 Claims. (Cl. 221—144)

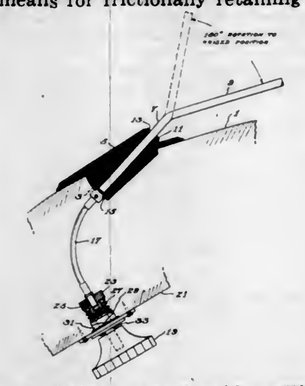


1. In a hopper having a discharge passage at its lower end, a supporting frame, a pair of laterally related coacting gates for said discharge passage, below said frame, a pair of laterally spaced arms at each end of each of said gates for the support thereof, the upper and lower ends of said arms being pivotally connected respectively to said frame and gates, a rocker member disposed between the pairs of supporting arms at each end of the hopper, said rocker member having a central pivotal mounting and arms extending in opposite directions therefrom, a pair of links operatively interconnecting the remote ends of said rocker arms, each to one of said gate supporting arms.

2,284,782
ANTENNA
Samuel H. Watson, Jr., Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 4, 1940, Serial No. 312,325
8 Claims. (Cl. 250—33)

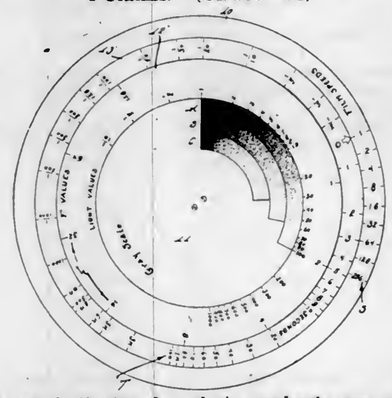
6. A retractable antenna for mounting on the roof of a vehicle comprising a self-supporting single conductor having two linear sections disposed at an obtuse angle with respect to each other, a socket insulatingly mounted on the surface of said vehicle, one end of said conductor being rotatably mounted in said socket, a control knob for rotating said antenna between a retracted position extending rearwardly along said roof and an operating position extending

upwardly from said roof, said knob having indexing means for frictionally retaining said an-



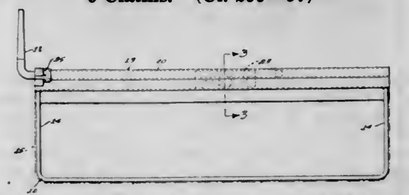
tenna in a desired one of said positions, and means operatively coupling said antenna to said control knob.

2,284,783
PHOTOGRAPHER'S EXPOSURE INDICATOR
Richard Weaver, Indianapolis, Ind.
Application August 19, 1939, Serial No. 290,989
4 Claims. (Cl. 235—84)



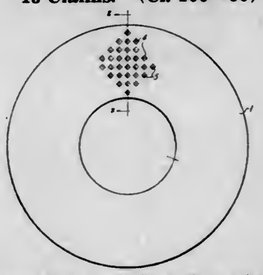
1. An indicator for photographer's use, comprising the following lengthwise co-ordinable elements:
(*a*) A light value element having graduations thereon to indicate logarithmically various light values,
(*b*) A lens aperture element having graduations thereon to indicate logarithmically relative camera-lens aperture diameters,
(*c*) A shutter speed element having graduations thereon to indicate logarithmically shutter speeds, wherein
the length of that portion of element (*a*) indicating $\frac{1}{10}$ to 1000 and the length of that portion of element (*b*) indicating 1 to 100 are each $\frac{4}{5}$ of the length of that portion of element (*c*) indicating $\frac{1}{1000}$ to 100,
(*d*) A tone gradient indicator element bearing an extended shaded area incrementally shaded from dark to light and incrementally indicating tone graduations, and
(*e*) An indicator element having graduations thereon to indicate negative-material sensitivity and co-ordinated with the tone gradient indicator element,
the elements (*a*)—(*b*), element (*c*) and indicator elements (*d*)—(*e*) being relatively shiftable lengthwise to various relative positions, substantially as and for the purpose set forth.

2,284,784
VISOR
Frederick J. Westrope, Pleasant Ridge, Mich., assignor, by mesne assignments, to Reconstruction Finance Corporation, Detroit, Mich., a corporation of the United States
Application November 28, 1940, Serial No. 367,511
6 Claims. (Cl. 296—97)



1. A visor structure for motor vehicles comprising, a supporting rod for attachment to a vehicle, a shield member carried by and having a tubular portion receiving said rod, said shield member being movable relatively to said rod to different positions of adjustment, said tubular portion having radially spaced spring fingers at one end thereof, and a strip of sound-deadening material interwound in said fingers and engaging the periphery of said rod to prevent rattling noises between said rod and said tubular portion.

2,284,785
FRICTIONAL MATERIAL AND METHOD OF MAKING SAME
John E. Wilkey, South Euclid, Ohio, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a corporation of Ohio
Application April 10, 1939, Serial No. 267,153
13 Claims. (Cl. 106—36)

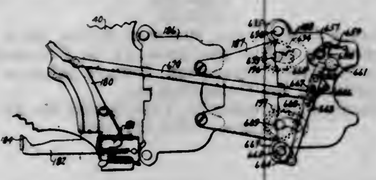


1. A composition of the character described comprising a mixture of approximately fifty to eighty parts of molybdenum sulphide, ten to twenty parts of graphite and about twenty-five parts of a binder.

2,284,786
ACCOUNTING MACHINE
Paul H. Williams, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Original application June 4, 1938, Serial No. 211,817. Divided and this application July 19, 1939, Serial No. 284,249
4 Claims. (Cl. 235—60)

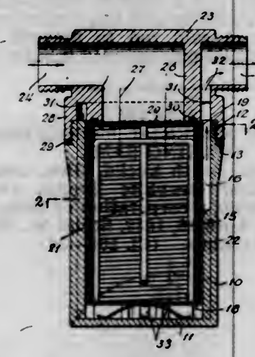
1. In a machine of the class described, having means to operate the machine, a totalizer, actuators for the totalizer, and a consecutive number

device, the combination of means to engage the totalizer with the actuators; means to control the engaging means to cause the totalizer to perform a certain function; means to aline the actuators in set positions; means to advance the



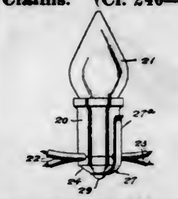
consecutive number device; and means, including a member operable by the engaging means and movable by the alining means into cooperative relationship with said advancing means, when the engaging means is effective, to cause the consecutive number device to be advanced.

2,284,787
FILTER
Jack Winkler, Brooklyn, N. Y.
Application April 8, 1938, Serial No. 200,835
3 Claims. (Cl. 210—169)



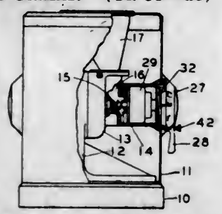
1. A filtering element adapted for insertion into the casing of a filter, said element being in the form of a helix having a series of convolutions provided with means to minutely space one from the other to provide filtration passages therebetween, a supporting structure for said filtering element including a receptacle at one end thereof secured to the convolutions at one end of the helix, a frame secured to said receptacle, said frame extending outwardly from said receptacle into the interior of said helix and slidably engaging the inner peripheries of a major portion of the convolutions of said helix, and a second receptacle at the other end of said supporting structure secured to the convolutions at the other end of said helix, a second frame secured to said second receptacle and extending outwardly from said second receptacle into the interior of said helix and slidably engaging the inner peripheries of a major portion of said convolutions of said helix, and the end portions of said frames being unsecured to each other and extending into overlapping relation with each other, whereby said receptacles may be moved in opposite directions and the filtering element expanded so as to separate the convolutions thereof without destroying their alignment.

2,284,788
ELECTRIC LIGHT SOCKET
Abraham Wolf, New York, N. Y., assignor to Noma Electric Corporation, New York, N. Y., a corporation of New York
Application December 16, 1937, Serial No. 180,087
6 Claims. (Cl. 240—52.1)



6. An electric light holder of the character described comprising a husk having an end wall, a cap, attaching means for firmly pressing said cap into abutment with said end wall, an attaching member for said light holder including an arm disposed along and permanently spaced from the side of said husk for gripping a support therebetween and a portion integral with and substantially at right angles to said arm, and means including said first named cap attaching means for firmly and positively securing said attachment member portion to said holder.

2,284,789
MILL FOR GRANULATING AND PULVERIZING COFFEE
Kenneth C. Allen, Dayton, Ohio, assignor to The Hobart Manufacturing Company, Troy, Ohio, a corporation of Ohio
Application January 31, 1940, Serial No. 316,470
18 Claims. (Cl. 83—18)

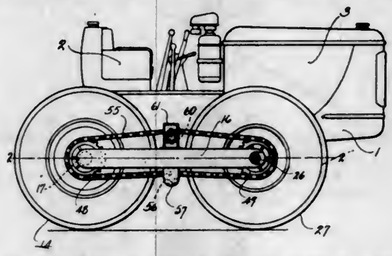


17. A coffee mill of the character described comprising a casing, grinding means comprising relatively rotatable cooperating grinding members in said casing, grade selector means for adjusting the spacing of said grinding members and providing a plurality of granulating adjustments and a pulverizing adjustment, means for feeding coffee to be ground to said grinding members, and means carried by the grinding members and separate from said feeding means for supplying coffee beans from said feeding means to the grinding zone of said grinding members at a limited rate for a pulvarizing action and for supplying the coffee beans at a much greater rate from said feeding means to said grinding zone for granulating action.

2,284,790
WHEELED TRACK REPLACEMENT UNIT FOR TRACTORS
George S. Allin, Seattle, Wash., assignor to Isaacson Iron Works, Seattle, Wash., a corporation of Washington
Application January 21, 1941, Serial No. 375,279
7 Claims. (Cl. 180—17)

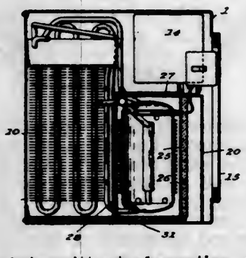
1. In a tractor of the character described, in

combination, a transverse pivot axle fixed in the tractor frame and having an end portion thereof extended beyond a side of the tractor frame, a power transmission gear wheel revoluble on said axle, spaced from the end thereof and formed with an outwardly extending and tapering hub portion, a ground wheel revolubly mounted coaxial of the extended end portion of the pivot axle at the outside of said gear wheel and having a cylin-



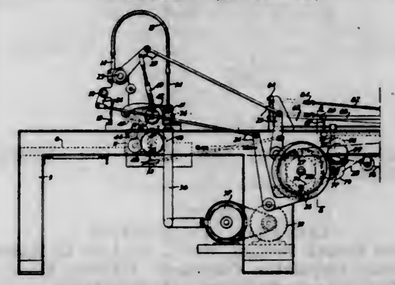
drical hub portion formed at its inner end with a hub bearing fitted and keyed to the tapered hub of the said gear wheel and open at its outer end, and a swing frame comprising a longitudinal beam, extended forwardly of said ground wheel, at the outside thereof, and having a mounted portion at its rear end pivotally applied to the end portion of the pivot axle within the cylindrical wheel hub.

2,284,791
ABSORPTION REFRIGERATING APPARATUS
Edmund E. Allyne, Cleveland, Ohio, assignor to Allyne Laboratories, Inc., Cleveland, Ohio
Original application January 3, 1938, Serial No. 183,042. Divided and this application September 21, 1939, Serial No. 295,972
4 Claims. (Cl. 62—118)



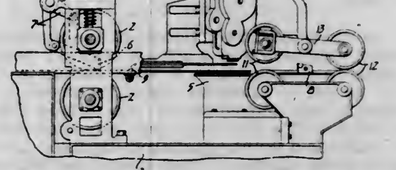
1. In an intermittent absorption refrigeration apparatus, a cabinet, an insulated food compartment secured in the upper front section thereof, a vertical heat flue arranged between the rear of said food compartment and the rear wall of said cabinet absorption refrigeration mechanism including an intermittently heated generator-absorber, condenser unit and evaporator positioned in said cabinet, the said generator-absorber being positioned directly below and in spaced relation to said food compartment, a baffle extending from adjacent the base of said cabinet upwardly and around the portion of the generator-absorber nearest the said food compartment and joining said vertical heat flue, the said condensing unit being also positioned to the rear and adjacent the base of said cabinet directly beneath the lower end of said heat flue whereby heat from the generator-absorber ascending in said flue causes a draft of unheated air to pass over said condenser unit.

2,284,792
BLANK HANDLING MACHINE
Nels A. Anderson, Stockton, Calif., assignor to Fibreboard Products Inc., San Francisco, Calif., a corporation of Delaware
Application January 29, 1940, Serial No. 316,170
11 Claims. (Cl. 93—49)



1. A machine for handling a blank, comprising means for folding the blank, elements between which the folded blank is compressed for registering adjacent edges of the blank, and means controlled by one of said elements for fastening portions of the folded blank together.

2,284,793
STITCHER MECHANISM
Nels A. Anderson, Stockton, Calif., assignor to Fibreboard Products Inc., San Francisco, Calif., a corporation of Delaware
Original application January 29, 1940, Serial No. 316,170. Divided and this application February 21, 1941, Serial No. 379,992
4 Claims. (Cl. 1—11)

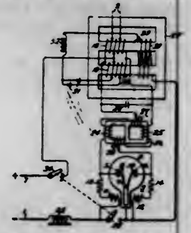


2. In a blank stitching machine, a stitcher having a shaft, means including a lever movable from extended to retracted position for stopping the stitcher, a timing cam on the stitcher shaft for extending the lever, a latch for holding the lever extended, a control cam engageable with the latch for releasing said lever, and means actuated by the timing cam for moving the control cam.

2,284,794
ELECTRIC CIRCUITS
Burnice D. Bedford, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application December 1, 1936, Serial No. 113,581
30 Claims. (Cl. 175—363)

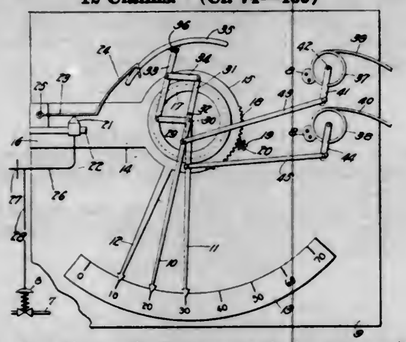
1. In combination, a supply circuit, a load circuit, electric translating apparatus interposed between said circuits for transmitting energy therebetween including switching means, means for actuating said switching means, a reactor having a core member arranged to be saturated during the greater portion of energy transmitting intervals and being connected in series relation with said switching means, and means for controlling said reactor to increase the induct-

ance of said reactor to effect a decrease in the current conducted by said switching means im-



mediately preceding and during the switching operation.

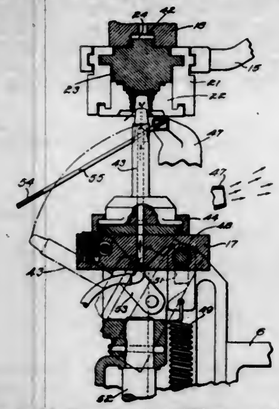
2,284,795
CONTROL MECHANISM
Nikolai Belaef, Boston, Mass., assignor to Mason-Neilan Regulator Company, Boston, Mass., a voluntary association of Massachusetts
Application February 23, 1940, Serial No. 320,330
12 Claims. (Cl. 74—469)



1. A ratio control movement for connecting driving members and a driven member and including in combination, a lever having a fixed pivot which is rotatable about its pivot in accordance with movement of one of said driving members, a floating lever pivotally mounted on said lever at a point apart from its fixed pivot, a second lever having a fixed pivot approximately at the pivotal mounting of said first lever which is rotatable about its pivot in accordance with movement of another of said driving members, a link pivotally connected to said second lever and to said floating lever at points substantially equidistant from the pivotal mountings of each of said levers having an effective length substantially equal to the effective length of said first lever, and means operatively connecting said floating lever with said driven member, said means and said link and levers combining, when the levers having fixed pivotal mountings are rotated in the same direction by said driving members, to effect movement of said driven member in one direction by one of said driving members and in the opposite direction by another of said driving members.

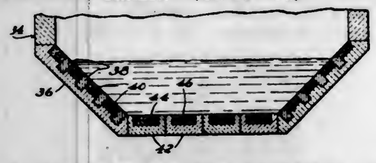
2,284,796
APPARATUS FOR AND METHOD OF FORMING AND TREATING GLASSWARE
Walter K. Berthold, Rockville, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware
Application December 20, 1939, Serial No. 310,100
13 Claims. (Cl. 49—14)

2. In a glassware forming machine, a device for cooling and discharging articles of ware from said machine, means for holding said device in position to receive an article of ware, an orifice in said device for applying a jet of air to said



article to hold it out of chilling contact therewith and to cool said article from beneath, and cooling nozzles for directing cooling air over the exterior of said article while riding on said jet of air.

2,284,797
FURNACE CONSTRUCTION AND METHOD OF REPAIR
Henry H. Blau and Kenneth K. Knaell, Charleroi, Pa., assignors, by mesne assignments, to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
Application June 8, 1936, Serial No. 84,029
6 Claims. (Cl. 49—54)



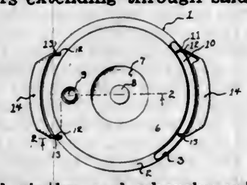
3. A refractory furnace containing molten glass which comprises a wall, a plurality of cast-refractory ribs extending out from the surface of the wall, and a loose aggregate of cast refractory pieces positioned between the ribs by gravity and contacting the molten glass.

6. The method of repairing the bottom of a glass melting tank containing molten glass which comprises providing a loose aggregate of cast refractory particles having a higher specific gravity than the molten glass, and depositing the aggregate through the molten glass to form a covering layer on the tank bottom.

2,284,798
HANDLE
Elmer S. Boose, Two Rivers, Wis., assignor to Aluminum Goods Manufacturing Company, Manitowoc, Wis.
Application May 15, 1939, Serial No. 273,731
1 Claim. (Cl. 220—94)

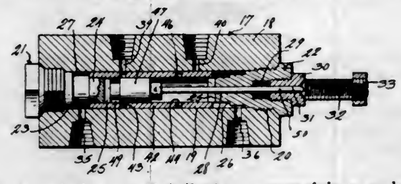
A cooking utensil comprising, a receptacle provided with a flat peripheral horizontal flange at its upper edge terminating in a depending skirt, opposed pairs of spaced closed slots formed across the angle made by the juncture of the flange with the depending skirt, straps secured

to the underside of said flange upon opposite sides of said receptacle between said depending skirt and the wall of said receptacle and adjacent said slots, pintles provided on the ends of said straps, relatively flat handles provided with depending ears extending through said slots for



receiving said pintles and whereby said handle engages said flange to normally lie substantially in the same horizontal plane relative to said flange, said flange and depending skirt serving to limit pivotal movement of said handles in two directions.

2,284,799
LUBRICANT DISTRIBUTOR
Raymond G. Brownstein, Ellwood City, Pa.
Application September 25, 1941, Serial No. 412,312
3 Claims. (Cl. 184—7)

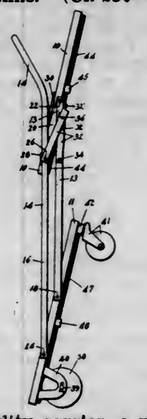


1. A lubricant distributor comprising a body having a bore extending therethrough and of constant diameter throughout, said bore opening at its end to opposite sides of the body, a stop member removably secured in each end of the bore, each stop member being of reduced diameter through a portion of its length at its inner end to form with the bore a circular area and providing a stop shoulder, an inlet port opening into the bore into each of said circular areas, a sleeve valve slidably disposed in the bore and limited in its axial movement therein by contact of its ends with said shoulders, a pair of outlet ports for the bore each leading therefrom from a position inwardly of but adjacent to a shoulder, said sleeve having a pair of wall apertures arranged to register with an outlet when the adjacent end of the sleeve is in contact with a shoulder, said sleeve when in contact at either end with the adjacent shoulder being closed by that shoulder and being open at its opposite end, a piston freely movable lengthwise within the sleeve, and means for stopping the lengthwise movement of the piston short of the ends of the sleeve.

2,284,800
ADHESIVE AND METHOD OF MAKING
John W. Close, Lombard, Ill., assignor to United Wall Paper Factories, Inc., Chicago, Ill., a corporation of Delaware
No Drawing. Application March 24, 1938, Serial No. 197,960
6 Claims. (Cl. 106—153)

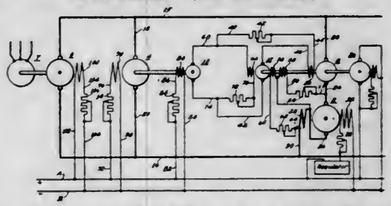
1. The method of making an adhesive which comprises forming a dispersion of water substantially free of alcohol or other organic solvent, a corn protein base in sufficient quantity to impart adhesive properties to the resulting composition, and an alkaline resinate, then heating the dispersion thus prepared to a temperature not substantially lower than 170° F. nor substantially higher than 210° F., and then adding a bleaching agent to the dispersion thus prepared, at the temperature stated.

2,284,801
COMMODITY CARRIER
Herbert A. Conger, Glendale, Calif.
Application June 28, 1941, Serial No. 400,291
4 Claims. (Cl. 280—36)



1. In a commodity carrier, a pair of vertically spaced trays, wheels mounted on the lowermost tray for supporting the carrier, a pair of links extending between said trays and pivoted at their lower ends to said lowermost tray, a second pair of links disposed in spaced parallel relation to the first pair of links and pivoted at their upper and lower ends to the upper and lower trays respectively, a third pair of links pivoted at certain ends in common with the upper ends of the second pair of links and pivoted at their other ends to the upper ends of the first pair of links, stop members on the upper tray for engaging said third pair of links for limiting the movement of the upper tray to a horizontal carrying position, and toggle links connected with said first and second pairs of links for releasably holding them in position to maintain the tray in said carrying position.

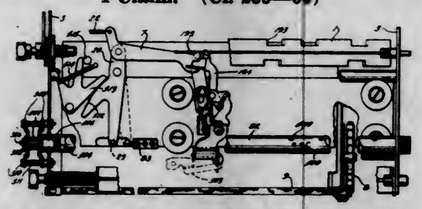
2,284,802
CONTROL SYSTEM
Willard G. Cook, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 29, 1941, Serial No. 376,415
19 Claims. (Cl. 172—239)



1. In a control system for a pair of motors, a source of power for the motors, means connecting one of the motors to the source of power, a booster generator, means connecting the other of the pair of motors to the source of power in se-

ries circuit relation with the booster generator, means connecting the booster generator to be excited by the said source of power, means for generating a potential which is a function of the speed of said one motor, and means for varying the excitation of said booster generator in accordance with the differential between said potential which is a function of the speed of said one motor and the potential drop across the armature of said other motor.

2,284,803
LISTING ADDING MACHINE
Loring Pickering Crosman, South Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware
Application December 20, 1941, Serial No. 423,810
1 Claim. (Cl. 235—60)

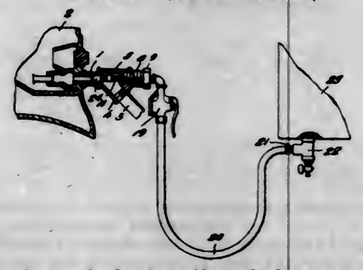


In a listing adding machine having a shiftable platen carriage, tabulating means for said carriage, and means settable to control the functioning of the machine in each tabulated position of the carriage, including an index device movable with the carriage and feelers operable to sense said device; the combination with means for locating the tabulated index device relatively to the feelers; of yieldable connections between the carriage and the index device, and guide supports for the device designed to allow longitudinal displacement thereof relative to the carriage.

2,284,804
CHEWING GUM BASE AND METHOD OF PREPARING SAME
Frank T. De Angelis, West Brighton, N. Y., assignor to L. A. Dreyfus Company, Staten Island, N. Y., a corporation of New York
No Drawing. Application October 28, 1940, Serial No. 363,207
14 Claims. (Cl. 99—135)

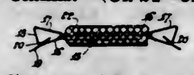
1. A chewing gum base comprising polybutene, a resin and a wax, the polybutene not exceeding 25% by weight of the composition and there being at least as much wax as polybutene.

2,284,805
PNEUMATIC CLEANER FOR LOCOMOTIVE SAND PIPES
Leonard Decker, Cincinnati, Ohio
Application October 20, 1941, Serial No. 415,819
1 Claim. (Cl. 15—104.055)



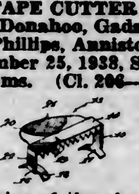
An air nozzle for injecting air from a pressure line into a fitting having a nipple at one end thereof, said nozzle comprising an externally threaded sleeve for turning into the other end of said fitting, a tubular nozzle member for insertion into said fitting, said member having a centrally apertured front end head and air discharge ports in the rear of said head and being slidable in said sleeve for movement of said front end back and forth in said fitting, a tapered plug at the front end of said nozzle member for movement into said nipple under sliding of said nozzle member in one direction to close the nipple in advance of said member, and means to slidably mount said plug on said member whereby under sliding of the member in the opposite direction said plug may be moved out of said nipple, said means comprising a plug carrying rod slidable in said aperture and extending into the member, a fixed abutment on the rod within the member, and a coil spring on said rod confined between said head and said abutment.

2,284,806
COLLAR CLIP
William E. De Laney, Willow Grove, Pa.
Application September 21, 1938, Serial No. 230,951
3 Claims. (Cl. 24—81)



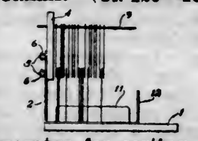
1. A collar clip comprising a pair of collar engaging elements, an extensile spring having each end connected to an element in a manner to permit the latter to move in any direction, and suppressor-casing enclosing the spring and linked to the collar engaging elements.

2,284,807
TAPE CUTTER
William Thomas Donahoo, Gadsden, and Oliver Arthur Phillips, Anniston, Ala.
Application November 25, 1938, Serial No. 242,366
2 Claims. (Cl. 206—52)



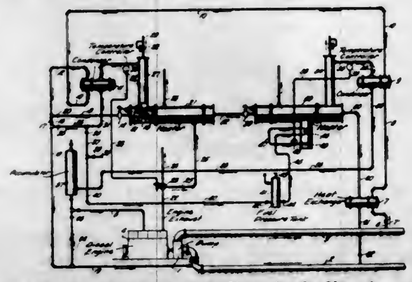
1. A cutting device of the character described comprising, a member having a straight horizontal section and a pair of arms at right angles thereto, each of said arms having an inwardly projecting and relatively wide arciform portion adapted to be movably inserted in appressed relation within the end of an adhesive tape holding spool and tape cutting means carried by said horizontal section, said means comprising serrated teeth-like members integral with and extending downwardly from said horizontal section.

2,284,808
APPARATUS FOR SORTING CARDS
John P. Duane, Wilmington, Del.
Application January 22, 1941, Serial No. 375,382
12 Claims. (Cl. 129—16.1)



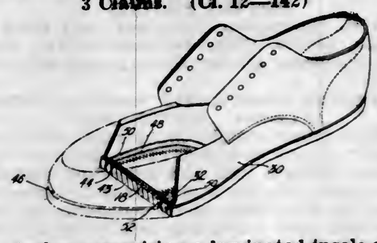
1. In an apparatus for sorting cards each of which is provided adjacent an edge with a plurality of perforations adapted to be slotted out to said edge, the combination of a base, an upright member mounted thereon, and a rod carried by said upright member at a height greater than the width of the cards to be sorted, said rod extending substantially horizontally and said upright member being so constructed that its upper end is free to vibrate.

2,284,809
APPARATUS FOR TRANSPORTING OIL THROUGH PIPE LINES
Joseph G. Dyer and Archie C. Wilkinson, Ponca City, Okla., assignors to Continental Oil Company, Ponca City, Okla., a corporation of Delaware
Application October 19, 1939, Serial No. 300,206
3 Claims. (Cl. 123—3)



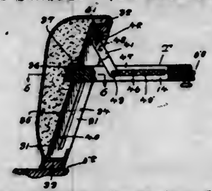
1. An oil transport pipe line, including in combination a conduit, a pump for moving oil through said conduit, an internal combustion engine burning a selected fraction of oil for driving said pump, a first still, means for bleeding a portion of the oil from said conduit into said still, a heater for said still, a second still, means for removing vapors from said first still, means for passing unvaporized oil from said first still to said second still, means for heating said second still, means for removing vapors from said second still, means for passing unvaporized oil from said second still to said pipe line, a first condenser for condensing vapors from said first still, means for passing condensate from said first condenser back to said pipe line, means for burning uncondensed gases from said first condenser in one of said still heaters, means for passing exhaust gases from the internal combustion engine through the other of said still heaters, a second condenser, means for passing vapors from said second still to said second condenser and means for passing the condensate from said second condenser to said internal combustion engine, as fuel.

2,284,810
SHOE AND METHOD OF MAKING THE SAME
Karl Engel, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application May 6, 1940, Serial No. 333,450
3 Claims. (Cl. 12—142)



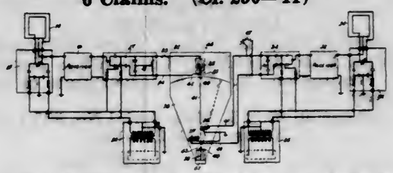
1. A shoe comprising a laminated insole member, the laminations of said insole member being of different sizes thereby to form a shouldered recess about the periphery of the insole member, an upper, a line of zig-zag stitches securing said upper in the recess, an outsole, and two rows of stitches securing said outsole to the upper inwardly and outwardly respectively of the edge of said insole member.

2,284,811
FOLDING TABLE
Charles H. Ferrelle, Savannah, Ga.
Application October 30, 1939, Serial No. 302,052
3 Claims. (Cl. 155—123)



1. A device of the character described, comprising, in combination, a motor vehicle seat having a back, a frame mounted within said back and fashioned with upwardly extending slots having horizontally disposed upper end portions, a table slidable within and pivoted to said frame and provided with trunnions operable within said slots whereby to position said table in extended position relative to said back when said trunnions are moved into said end portions, and links pivotally connected to the said frame having studs in their outer ends pivotally and slidably engaging means on the table to support the same when the trunnions are moved into the end portions of the slots.

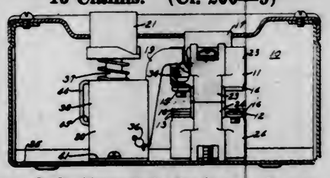
2,284,812
RADIANT ENERGY DISTANCE DETERMINING SYSTEM
Edward G. Gage, Brooklyn, N. Y., assignor, by direct and mesne assignments, of two-thirds to Leon Ottinger, New York, N. Y.
Application November 2, 1939, Serial No. 302,523
6 Claims. (Cl. 250—11)



6. In a system for measuring the distance of a mobile unit from a given point, the combination with a unit for transmitting electromagnetic waves comprising triangularly disposed radio transmitters, and means to cause all of the transmitters to radiate individually signals during a period of measurement as waves of different frequencies, respectively; of two receiver means on a mobile unit each including direction-finding means all having like reception angles with respect to the longitudinal axis of the mobile unit, and means respectively connected therewith to tune the same respectively to selected waves from any two of the transmitters and to the remaining transmitter for directional sense of approach, one receiver means being adapted to function as a minimum signal indicator and the other receiver means being adapted to then afford a relatively maximum signal indication,

translation means operatively associated with the respective receiver means, and means actuated from the translation means for affording visual indications of the relative signal strength of the received waves, the difference between said indications being a measure of the distance of the mobile unit from one of the transmitters.

2,284,813
SWITCHING DEVICE
Clarence E. Gary, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 17, 1938, Serial No. 225,357
13 Claims. (Cl. 200—5)



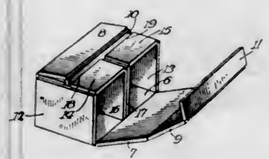
1. A push-button interlock mechanism comprising a push-button, a spring biasing the button to raised position, a contact operable by the button and effective to close one circuit in the raised position of the button and to close another circuit in the depressed position of the button, an adjacent button assembly including a second push-button, a biasing spring to bias the second button to its raised position, a guide plate for supporting the second button and for guiding the button movement, a frame supporting the guide plate and embodying guide slot sections for the plate to keep the plate in a predetermined path, a latch pivoted on the frame and embodying a front latching finger to engage the first button, and a rear pressure lug to serve as a latching finger to hold the guide plate in depressed position when the second button is depressed, the guide plate having a notch in its side edge where engaged by the latch lug, the notch being located where it will be engaged by the latch lug when the button is depressed, to permit the latch to move away from, and release the other push-button.

2,284,814
LACING DEVICE
Sylvester L. Gookin, Quincy, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application May 1, 1940, Serial No. 332,754
2 Claims. (Cl. 24—145)



1. A sheet metal strip having a U-shaped loop portion the side margins of which are individually revolute in cross-section and form individual hollow reinforcing beads, and two terminal portions connected by said loop portion and projecting from the latter in right-angular relation thereto.

2,284,815
MINIATURE PACKAGE
Karl R. Grimm, La Fayette, Ind., assignor to Warren Paper Products Company, La Fayette, Ind., a corporation of Indiana
Application September 29, 1938, Serial No. 232,386
1 Claim. (Cl. 229—27)

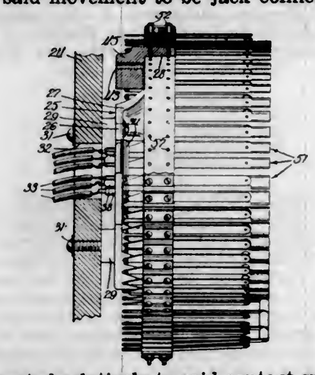


A miniature or toy representation of a shipping package, comprising a paper board blank having a central rectangular panel and extensions from each of the four edges thereof, said extensions being foldably connected to the edges of said central panel, the width of each of said extensions substantially corresponding to the length of the respective edges from which they extend and being substantially constant throughout the length of the extension, each of said extensions being provided with a pair of relatively spaced fold lines extending transversely thereof in parallel relation to said edges of the central panel, said fold lines being so disposed that said extensions are foldable upwardly and inwardly relative to said central panel to form a rectangular, hollow, box-like structure, the outer end portions of said extensions being folded toward said central panel substantially midway of opposite side walls of the structure, one pair of said outer end portions terminating in spaced relation to said central panel and the other pair of outer end portions and the inwardly folded portions from which they extend being apertured to receive said first mentioned pair of outer end portions, the apertured outer end portions being of such size as to traverse the entire interior of the structure so as to reinforce the structure, and said aperture terminating in spaced relation to said central panel so as to maintain an integral connection between the extreme or free end portions of said apertured outer end portions.

2,284,816
ROTARY SWITCH
James R. Harrington, Mansfield, and Boyd H. Smith, Shelby, Ohio, assignors to The Autocall Company, Shelby, Ohio, a corporation of Ohio
Application August 3, 1940, Serial No. 350,716
21 Claims. (Cl. 200—105)

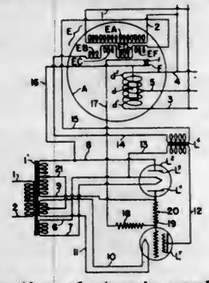
1. In a rotary switch, the combination of an assembly of contact springs grouped cylindrically about a common axis and extending substantially parallel thereto, a movement for actuating the switch comprising electromagnetic stepping mechanism and a rotating arm driven thereby for engaging said contact springs successively,

and mounting jack means for said movement enabling said movement to be jack connected and



disconnected relatively to said contact spring assembly.

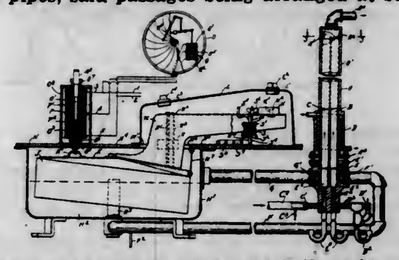
2,284,817
MEASURING AND CONTROL APPARATUS
Thomas R. Harrison, Wyncote, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 25, 1936, Serial No. 102,482
24 Claims. (Cl. 172—239)



1. In combination, electronic amplifying means comprising rectifying tube means adapted for full wave rectification of an alternating current and comprising two anodes alternating in positive potentials with the frequency of the current rectified, an amplifying tube having a control grid and adapted to deliver a pulsating plate current, adjustable control means adapted to make the controlling bias of said control grid vary with the potential of one or the other of said anodes according to the adjustment of said control means, and phase responsive means permanently connected in the plate circuit of said tube and selectively responsive to the phase relation of the plate current pulsations delivered by said amplifying tube.

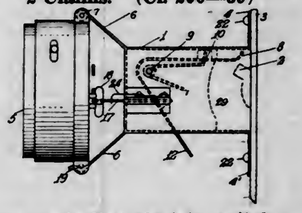
2,284,818
GAS ANALYSIS APPARATUS
Thomas R. Harrison, Wyncote, and Roscoe D. Bean, Ambler, Pa., assignors to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 22, 1938, Serial No. 203,534
4 Claims. (Cl. 73—51)

1. Apparatus comprising two vertical standpipes, means for passing a gas of known density through one and a gas of unknown density through the other of said pipes, said pipes being connected at one level, a differential pressure device, conduits connecting said device and pipes at a predetermined level lower than the level at which said pipes are connected, and means for compensating said apparatus for variations in gas velocity in said pipes including a passage in each of said pipes of smaller cross sectional area than the cross sectional area of said pipes, said passages being arranged at such



a distance below the level at which the said conduits are connected that on a change in gas velocity through the pipes the changed velocity head of the gas discharge from the said passages into the pipes results in a correspondingly changed static pressure in the pipes at the level of the conduit connections which compensates for the increase in friction head resulting in the pipes.

2,284,819
TIME CONTROLLED ELECTRIC SWITCH
Will Green Harton, Los Angeles, Calif.
Application July 22, 1940, Serial No. 346,857
2 Claims. (Cl. 200—39)

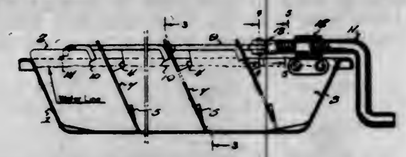


1. A time controlled electric switch operating mechanism comprising an operative lever under spring tension held by a bolt in a position cocked for the throwing of a toggle switch, a trigger to release said bolt and lever operable by the unwinding of an alarm winding key of an alarm clock, said operating elements mounted in a frame having an arm with a perforation adapted to fit into an annular groove in the head of a screw in a toggle switch face plate and a second arm having a longitudinal slot adapted to fit into an annular groove in the head of another screw in the face plate of a toggle switch for the installation of said mechanism.

2,284,820
ICE CUBE RELEASE GRID
Earl W. Haugh, Manitowoc, Wis., assignor to Aluminum Goods Manufacturing Company, Manitowoc, Wis.
Application March 17, 1941, Serial No. 383,776
1 Claim. (Cl. 62—108.5)

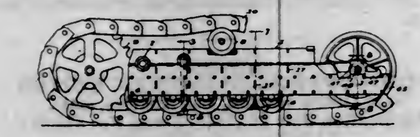
A grid for ice cube trays comprising, a longitudinal partition provided with spaced notches in its upper edge, transverse fins shiftably carried by said partition and having their upper ends located in said notches, said ends being provided with alined openings adjacent their upper ends, a flat plate extending through said

openings and supported upon the top edge of said partition, said plate being provided with pairs of depending fingers formed upon its longitudinal edges and straddling said partition for progressively engaging said fins, a notched de-



pending lip formed on the rear end of said plate for straddling the upper edge of said partition to guide said plate thereon, and a threaded crank carried by said partition and rotatably connecting with the forward end of said plate for longitudinally shifting the same.

2,284,821
IDLER WHEEL ADJUSTMENT MEANS
James G. Heaslet, Hudson, Ohio, assignor to The Cleveland Tractor Company, Cleveland, Ohio
Application September 30, 1940, Serial No. 359,125
2 Claims. (Cl. 305—9)

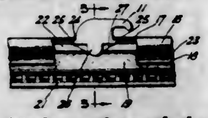


1. A side frame for crawler tractors comprising an elongated open bottom, box-like member whose sides are reduced in height and extend beyond the box-like portion, a slidable carrier adapted to ride on the said extended sides, an axle secured to said carrier, an idler wheel thereon, and means carried interiorly of said box-like member for adjusting the relative position of said carrier on said extended sides, said means including a rearwardly extending shock-absorbing spring device fastened to said carrier, a screw-threaded bar fastened to the opposite end of said spring device, said bar being threaded through a gear having an internally threaded hub and a worm gear mounted at right angles to and meshing with said gear, said worm gear being adapted to be rotated to move said carrier by a hand crank inserted through an opening in said box-like member, said opening having a cover plate provided with a prong on its underside to engage said worm and prevent its rotation when said cover plate is in closed position.

2,284,822
SEASONING MATERIALS
Albert Heller, Chicago, Ill., assignor to B. Heller & Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application May 17, 1940, Serial No. 335,698
3 Claims. (Cl. 99—140)

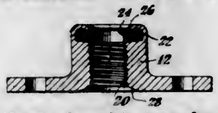
1. A method of preserving the potency of seasoning for meats which comprises absorbing a small amount of essential oils, in an insoluble carrier so as to prevent immediate release of the essential oils upon contact with meat surfaces, said carrier consisting of dry comminuted white pepper and ginger which function by absorption to protect the essential oils against oxidation before use.

2,284,823
WIPER BLADE
Erwin C. Horton, Hamburg, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application July 13, 1939, Serial No. 284,294
5 Claims. (Cl. 15—250)



1. In a wiper blade, a channel-shaped holder having a web portion with an opening therein and opposed outwardly directed flanges, said flanges having indentations formed therein providing a restriction in the space between the flanges at a point spaced from the web portion, a wiping element disposed in said holder and clamped between said indentations, said element having a recess therein adjacent the opening in the web, and a wiper arm connecting member extending through said opening in the web in said recess and having a portion disposed between said indentations of the flanges at a point spaced outwardly from said web portion, said member being of greater thickness than the wiping element as clamped between said portions and the material of the indentations of said flanges adjacent said member being formed about the edge portions thereof.

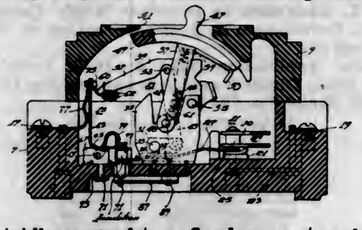
2,284,824
ANCHOR NUT AND THE MANUFACTURE THEREOF
Daniel C. Hungerford, Madison, N. J., assignor to Elastic Stop Nut Corporation, Elizabeth, N. J., a corporation of New Jersey
Application May 26, 1938, Serial No. 210,145
10 Claims. (Cl. 10—86)



1. The method of making anchor nuts having a main body portion and a laterally projecting flange portion which includes the steps of upsetting one end of a length of bar stock to produce a flange having a diameter at least equal to the maximum transverse flange dimension of the finished nut and during the upsetting operation forming a generally circular depression located centrally of the upset face of the material, trimming the flange to desired contour, forming a central bore of smaller diameter than the diameter of said depression extending from the upset face of the nut into the body portion thereof, and threading said bore, whereby to utilize the marginal portion of said depression as a counter-sink for the end of the threaded bore.

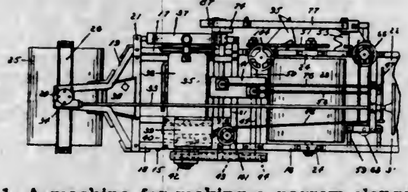
2,284,825
CIRCUIT INTERRUPTER
Oliver S. Jennings, Pittsburgh, and Harlan S. Gano, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 3, 1938, Serial No. 228,942
12 Claims. (Cl. 200—116)

1. In a circuit interrupter, relatively movable contacts for opening and closing the circuit, actuating means for opening and closing said contacts, means including a bodily movable thermal control element heated in response to the current in the circuit and movable in response to predetermined overload conditions in the circuit to effect actuation of said contacts, and a thermally responsive member having one por-



tion rigidly secured to a fixed support and having a free portion connected to said control element to bodily displace said control element in compensating for changes in ambient temperature.

2,284,826
SOD CUTTING MACHINE
Joseph H. Kroeger, Cheviot, Ohio
Application May 4, 1939, Serial No. 271,817
22 Claims. (Cl. 97—226)



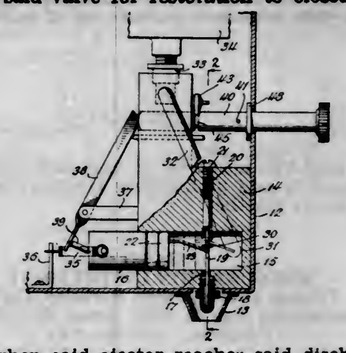
1. A machine for making a narrow elongated cut for producing sod in strips comprising a frame, a prime mover on the frame, means for supporting the frame, means including a connection with the prime mover for providing movement to the frame in the longitudinal direction of the cut, a horizontal knife mounted on the frame, and means for connecting the prime mover and the knife for reciprocating said knife transversely of the cut.

2,284,827
WATER SOFTENING AND CLARIFICATION
Frederick K. Lindsay and John W. Rymar, La Grange, Ill., assignors to National Aluminate Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application August 3, 1940, Serial No. 351,115
10 Claims. (Cl. 210—23)

1. A coagulant for water treatment which comprises a mixture of an alkali metal aluminate and bentonite.

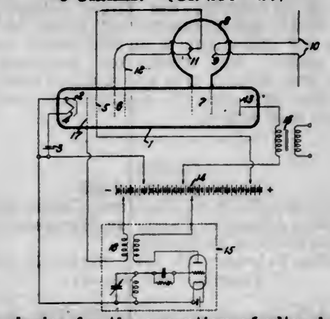
2,284,828
DISPENSING APPARATUS
Peter Lohn, New York, N. Y.
Application June 15, 1940, Serial No. 340,679
9 Claims. (Cl. 221—102)

1. In a liquid dispensing apparatus, a liquid chamber having an outlet, a valve normally closing said outlet, an ejector movable in said chamber to a discharge position therein to force liquid therefrom and through said outlet, a valve opening element on said ejector operable, upon movement of the latter toward said discharge position, to engage and open said valve, said valve opening element being provided with means to release said valve for restoration to closed po-



sition when said ejector reaches said discharge position, and means to thereupon close said valve.

2,284,829
ULTRA HIGH FREQUENCY RECEIVING DEVICE
Fritz Lüdi, Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland
Application March 6, 1941, Serial No. 382,090
In Switzerland February 27, 1940
6 Claims. (Cl. 250—27)

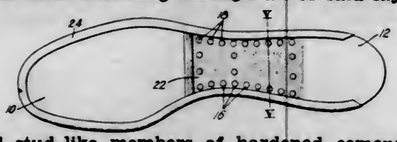


1. A device for the reception of ultra high frequency waves comprising a phase focusing oscillation tube including a cathode, an accelerating electrode, a modulator, an inductor separated therefrom by a transit space, said modulator and inductor being connected to a common oscillation system in such manner that the ratio of the modulator voltage to the inductor voltage is less than unity and self-excited oscillation is caused, and a demodulating electrode system positioned beyond the inductor, means for maintaining a constant effective accelerating voltage between the cathode and the accelerating electrode and an auxiliary oscillating circuit connected to said oscillation tube to vary the beam current intensity periodically at the frequency at which the oscillations produced in said oscillation system are interrupted.

2,284,830
SHOE AND SHOE BOTTOM PARTS
Horatio S. Lyness, Lynn, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application March 26, 1940, Serial No. 326,035
13 Claims. (Cl. 36—76)

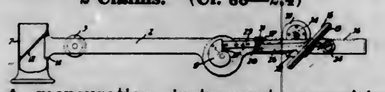
1. A shank piece comprising a plurality of lay-

ers of sheet material arranged in face-to-face relation, said piece having a plurality of perforations each extending through all of said layers,



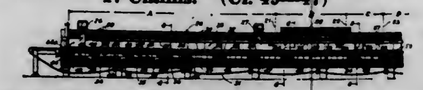
and stud-like members of hardened cementing material in said perforations positively securing said layers together.

2,284,831
MENSURATION INSTRUMENT
Preston H. McCanlies, Berkeley, Calif.
Application May 24, 1940, Serial No. 337,033
2 Claims. (Cl. 88—2.4)



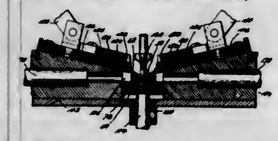
1. A mensuration instrument comprising a base, means on the base for establishing a line of sight from an observer to a distant object, means including a turnable reflector for establishing another line of sight angularly disposed to the first line, an arm pivoted to the base, a second arm mounted to turn with the reflector and slidably engaging the first arm, a cam journaled on the base and engaging the first arm for turning it to change the angle between said lines of sight, means operatively connected with the cam for indicating a measurement relating to said object, and means for mounting said reflector and second arm for slidable movement relative the first arm to control the degree of change in said angle.

2,284,832
GLASSWARE LEHR
Donald G. Merrill, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware
Application February 12, 1941, Serial No. 378,498
17 Claims. (Cl. 49—47)



1. A lehr for decorating glassware, comprising an initial or heating up zone in which glass is raised from substantially room temperature to a temperature such as to fuse the decoration thereon, heating means in the forward portion of said zone adjacent to the end of the lehr through which the ware enters constructed and arranged to establish and maintain substantially longitudinal recirculations of heating gases in the lehr tunnel, other heating means arranged adjacent to the rear portion of said zone constructed and arranged to maintain predominantly lateral recirculations in the lehr tunnel in paths moving upwardly adjacent to the side walls of the tunnel and downwardly adjacent to the longitudinal median portion thereof, and intermediate heating means disposed along said zone of the lehr tunnel between the first and second named heating means and constructed and arranged to establish and maintain circulatory currents of heating gases in the lehr tunnel in a gradual progression from the longitudinal recirculation toward the front end of the tunnel to predominant lateral recirculations toward the second named heating means.

2,284,833
METHOD AND APPARATUS FOR MAKING KNIFE HANDLES AND COMPONENT PARTS THEREOF
Felix A. Mirando and Henry Vossler, Providence, R. I., assignors to Imperial Knife Company, Inc., Providence, R. I., a corporation of Rhode Island
Original application July 6, 1938, Serial No. 217,826. Divided and this application July 22, 1939, Serial No. 285,862
17 Claims. (Cl. 18—19)



1. In an apparatus of the character described for manufacturing knife handles having a plastic scale covering member whose exposed surface is unbroken and which is self-held to an elongated scale, means for supporting said scale and scale covering members in relatively superimposed relationship, means for pressing together said scale and said scale covering members, means for folding said scale covering member over said scale, heating means, and means for pressing said heating means against said fold lines whereby to plasticize the same said last named means being so constructed and arranged that the pressure exerted between said heating means and said fold lines is greater than the pressure applied between said scale and scale covering members.

10. In a method of manufacturing a knife handle having an elongated arched scale with an elongated inset central portion with bolsters or tips at each end thereof and a plastic scale covering member of substantially the same length as said inset central portion, and whose surface is unbroken and which covering member is self-held to said scale, those steps comprising relatively superimposing said covering member on said inset central portion in such manner as to dispose a pair of opposed edges of said covering member immediately adjacent said tips or bolsters, folding over portions adjacent edges of said scale covering member around the longitudinal edges of said inset central portion and plasticizing said scale covering member only at said folds, whereby said scale covering member retains its folded shape, is anchored to said scale, and shrinks only transversely of said inset central portion.

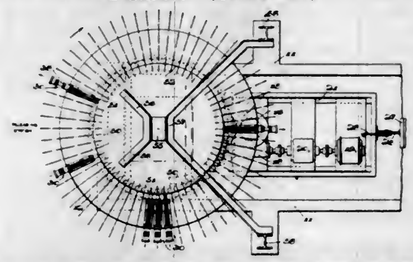
2,284,834
ARTICLE USED FOR HOLDING SHEETS OF MATERIAL TOGETHER
Francis L. Moler, West Los Angeles, Calif.
Application February 25, 1941, Serial No. 380,445
11 Claims. (Cl. 85—5)



1. A temporary fastener comprising an element adapted to be inserted into and partially fill a hole, another element adjacent to the first element, the two elements substantially filling the hole, the first element connected to a bearing member adapted to press downwardly on the upper face of a top sheet, the second element

having a hook adapted to engage the underside of a lower sheet, and spring means simultaneously urging the bearing member towards the hook and the two said elements apart.

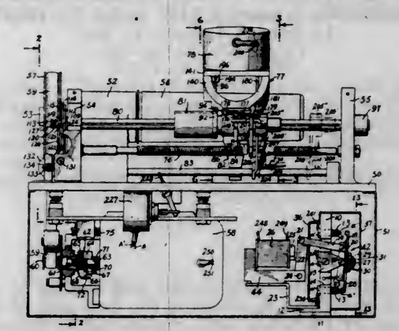
2,284,835
APPARATUS FOR PRODUCING SMALL CASTINGS
William D. Moore, Birmingham, Ala., assignor to American Cast Iron Pipe Company, Birmingham, Ala., a corporation of Georgia
Application January 22, 1940, Serial No. 315,088
1 Claim. (Cl. 22—77)



Apparatus for producing small iron castings including a horizontally disposed table, means supporting said table for rotation around a vertical axis, means for rotating said table around said axis, a plurality of mold units mounted on said table adjacent the periphery thereof, each of said mold units including a permanent mold of good heat conductivity composed of two relatively movable mold parts, resilient means normally urging said mold parts together, a frame in which one of said mold parts is fixedly mounted, a rectilinearly-movable radially-disposed rod mounted for reciprocation in said frame and having its outer end operatively connected to the other of said mold parts, means mounted on each rod and cooperating with a stationary member for preventing relative rotation of the rod and its associated mold part, cooperating means on said relatively movable mold halves for maintaining exact registry therebetween during their relative movement into and out of cooperative relationship, and a stationary cam disposed above and substantially coaxial with said table and adapted to cooperate with the inner ends of said rods to reciprocate said rods in said frames and move the mold halves relatively to each other to release the castings from said molds.

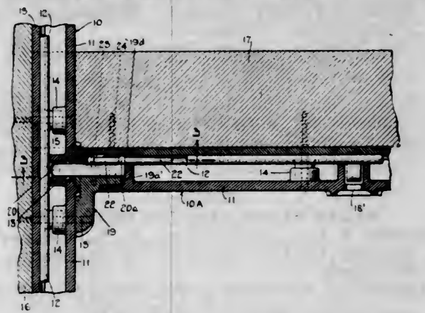
2,284,836
PHONOGRAPH
Leland D. Norton and John E. Renholdt, Bridgeport, Conn., assignors to Dictaphone Corporation, New York, N. Y., a corporation of New York
Application April 22, 1936, Serial No. 75,660
2 Claims. (Cl. 274—21)

1. In a phonograph, a carriage supporting a recording stylus and a reproducing stylus alternatively shiftable into engagement with a record tablet, said carriage being mounted to advance or backspace in relation to said tablet, means for advancing said carriage, means for imparting a backspacing movement to said carriage, means for controlling the operation of said backspacing means, a relay operable in response to operation of said backspace controlling means, a shifting mechanism connected to and operable in response to operation of said relay to shift said reproducing stylus into engagement with said record table when said backspace control means is operated, and means associated with said carriage and connected to said relay independently of said backspace control means



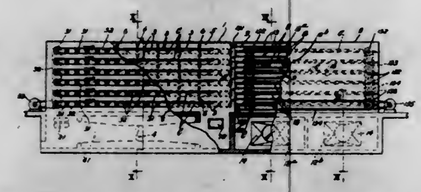
automatically to maintain said relay in operated position and said reproducing stylus in shifted position after backspacing movement has been imparted to said carriage.

2,284,837
INTERCONNECTOR MEANS
Joseph F. O'Brien, Jersey City, N. J., assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York
Application December 19, 1939, Serial No. 309,940
4 Claims. (Cl. 173—334.1)



1. A connection fitting adapted for electrically and mechanically interconnecting angularly adjoining electric conduit units of respective angularly intersecting seriatim systems of electric conduit units, said connection fitting comprising, a body portion having substantially oppositely extending ends, one of said ends being shouldered and reduced in thickness to provide a male formation for mechanical interconnection with its associated electric conduit unit; electrical conductors insulatedly mounted in said body portion and having terminal portions which project from both of said oppositely extending ends thereof; said body portion having an integral stub extension projecting angularly from one side thereof at that one of its said ends which is opposite from said shouldered end of male formation, said stub extension being of approximately the same size as said body portion for securely anchoring said body portion to the electric conduit unit associated with the said end of the body portion from which said stub extension extends; and mechanical means for securing said stub extension to the last named electric conduit unit.

2,284,838
METHOD FOR DRYING POROUS WALLBOARDS
Gustav Valdemar Öholm, Stockholm, Sweden
Application January 8, 1938, Serial No. 184,013
In Sweden January 11, 1937
1 Claim. (Cl. 34—18)

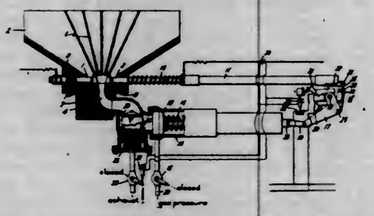


A method of drying porous wall boards, in two steps, consisting in effecting the first part of the drying by supplying heat exclusively to the surfaces of the boards without substantially heating the interior thereof until sufficient water has been removed from the pores of the board to substantially reduce the resistance to the flow of air through said pores and subsequently completing the drying by passing drying air through said pores from one surface of the board to the opposite surface thereof.

2,284,839
CELLULOSE SPINNING SOLUTION AND FILAMENT PRODUCED THEREFROM
George A. Paine, Providence, R. I., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 2, 1940, Serial No. 359,359
11 Claims. (Cl. 260—9)

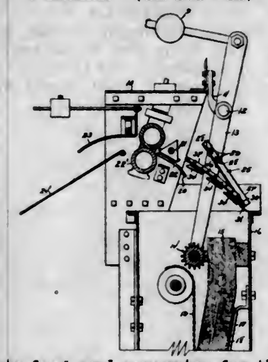
1. A viscose spinning solution containing a terpene-maleic anhydride, polyhydric alcohol resin as a modifying agent.

2,284,840
FLUID BLAST CIRCUIT BREAKER
William E. Paul, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application November 3, 1938, Serial No. 238,632
11 Claims. (Cl. 200—148)



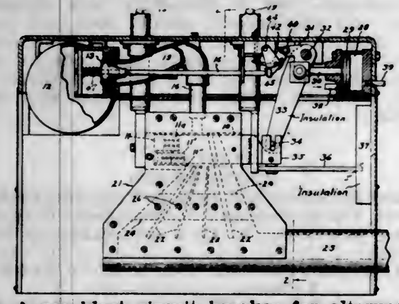
1. An electric air circuit breaker of the cross blast type comprising relatively movable contacts, independent pressure means for directing a fluid blast transversely through the arc path formed upon separation of said contacts, and means for segregating and dissipating metallic vapor formed by the arc at each contact surface at the opposite extremities of the arc path, said metallic vapor being dissipated in directions away from said arc path so that the intermediate part of the arc path subject to said fluid blast is substantially free of said vapor.

2,284,841
PLATE FEED AND SEPARATOR FOR TINNING MACHINES
Charles W. Phillips, Warren, Ohio, assignor of twenty-five per cent to David Sieman, Warren, Ohio
Application August 23, 1941, Serial No. 408,125
2 Claims. (Cl. 271—36)



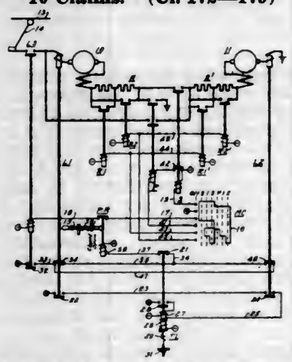
1. A plate feed and separator for tinning machines comprising, a support for a pile of plates, magnetic means for feeding the plates endwise upwardly from the pile, a row of cams offset upwardly with respect to each other above the pile adapted to intercept a pack of the plates adhering together and separate the pack to permit single plates being fed successively therefrom by the magnetic means, and magnet rods between the cams coacting with the cams in holding back the rest of the plates of the pack while the magnetic means is reducing the pack.

2,284,842
CIRCUIT BREAKING APPARATUS
David C. Prince, Swarthmore, and William K. Rankin and Wilfred F. Skeats, Lansdowne, Pa., assignors to General Electric Company, a corporation of New York
Application November 6, 1939, Serial No. 303,126
20 Claims. (Cl. 200—148)



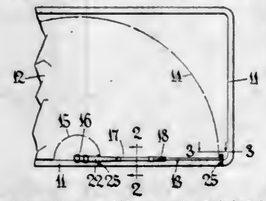
1. A gas blast circuit breaker for alternating current power circuits adapted to interrupt the current at substantially the zero point of the current wave comprising relatively movable contacts, means containing gas under pressure prior to separation of said contacts, means for supplying a blast of gas from said means substantially at right angles to the path of contact movement whereby the blast is directed transversely to the arc gap formed between the contacts upon separation thereof, an arc chute into which the arc is directed by the blast, said arc chute being constructed to facilitate the escape of gases and vapors therethrough with a minimum back pressure and being provided with a partition of insulating material dividing the chute into separate passages for the arc gases and vapors, said partition having its width transverse to the path of the arc and having its transverse insulating edge portion close to the path of contact movement whereby the arc path is stretched around said edge to lengthen and cut it as it moves into the chute, said transverse edge portion being composed of a vaporizable insulating material such as hard fibre as described, gas being introduced into the space between the contacts and against the edge of said partition at a velocity high enough to interpose dielectric in the form of fresh un-ionized gas at a rate sufficient to prevent the recovery voltage from restriking an arc between the contacts after the circuit has been interrupted.

2,284,843
CONTROL SYSTEM
George R. Purifoy, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 11, 1941, Serial No. 388,100
10 Claims. (Cl. 172—179)



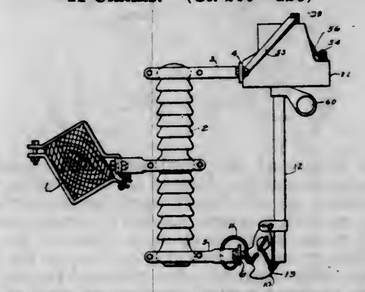
1. In a motor control system, in combination, a motor, a power conductor, switching means for connecting the motor to the power conductor, relay means responsive to a decrease in the motor current for controlling the operation of said switching means to disconnect the motor from the power conductor after a predetermined time interval, and resettable means for preventing reclosing of said switching means.

2,284,844
PARKING WINDSHIELD CLEANER
Anton Rappl, Eggertsville, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application September 29, 1938, Serial No. 232,399
10 Claims. (Cl. 15—255)



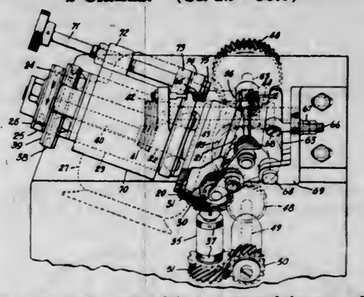
3. In combination with a windshield glass and a molding adjacent one edge thereof, and a cam for engagement by a wiper blade when the latter is moved into adjacency with said edge, said cam having a flange extending between the glass and molding.

2,284,845
REPEATING FUSE
Herbert L. Rawlins, Wilkinsburg and Andrew H. Bakken, Edgewood, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 29, 1935, Serial No. 52,098
11 Claims. (Cl. 200—126)



3. In a multiple-unit circuit interrupter, a connector for each unit for connecting another unit into the circuit upon operation of the first unit to open-circuit condition, spring operated means for moving the connector into position for so connecting the second unit, mechanism for delaying the action of said spring operated means, means carried by the spring operated means for disconnecting it from the delaying mechanism upon movement of the spring operated means beyond a predetermined point, and a spring for returning the delaying mechanism to its original position upon said disconnection, said spring establishing reengagement upon return of the connector moving means to its original position.

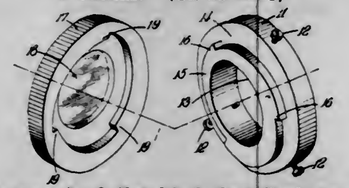
2,284,846
TRIMMING MACHINE
Eugene J. Ray, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application May 14, 1941, Serial No. 393,306
2 Claims. (Cl. 12—83.5)



1. A trimming machine comprising a dished feed-roll having an annular end surface constituting a cutting bed and a circular cavity surrounded thereby, a rotary hollow cutter having an annular cutting edge one segment of which is nested in said cavity and another segment of which is arranged to trim, with a beveling cut, material lying on said cutting bed, a presser-

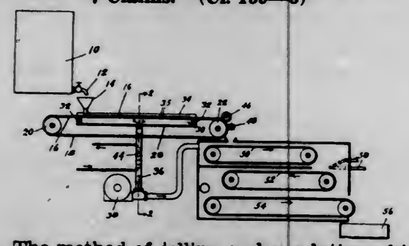
roll the periphery of which projects partly into and partly out of the mouth of said cutter and is arranged to maintain the work against said cutting bed, means arranged to rotate said cutter, and means arranged to rotate said feed-roll.

2,284,847
PHOTOGRAPHIC FILTER AND LIKE MOUNT
Robert John Raymond, Bulmer, England
Application February 24, 1941, Serial No. 380,223
In Great Britain April 3, 1940
6 Claims. (Cl. 88—113)



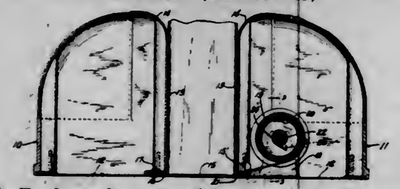
1. A mount of the kind described, comprising an inner member formed on its exterior with a plurality of involute-shaped wedge-surfaces, and a second member having correspondingly shaped wedge-surfaces upon its interior, the second member being arranged to fit over the first member with clearance, the edges of the wedge-surfaces being bevelled so that relative partial rotation between two parts locks the parts together parallel with one another against axial separation.

2,284,848
METHOD AND APPARATUS FOR DRYING GLUE
James S. Ryan, Woburn, Mass.
Application June 7, 1938, Serial No. 212,281
7 Claims. (Cl. 159—8)



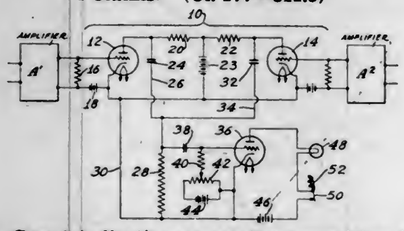
5. The method of jelling a glue solution which consists in forming the liquid glue solution in a thin sheet, and maintaining the sheet under conditions permitting the sheet to cool and ultimately jel while hastening the jelling by passing blasts of cooling air through the sheet.

2,284,849
BOOK END
Edward P. Schreyer, Milwaukee, Wis.
Application August 29, 1941, Serial No. 408,783
2 Claims. (Cl. 211—43)



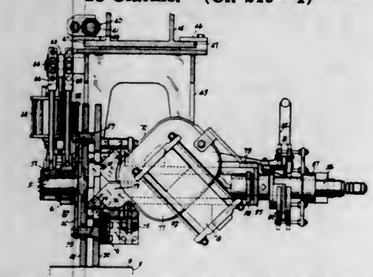
1. Book ends, comprising a pair of complementary book-supporting members, at least one of said members having its main body portion in the form of a hollow shell having an open bottom, a flat base removably secured to said shell to normally close said bottom, a reel supported on said base within the shell, a flexible strip connecting said book-supporting members and having one end windable on said reel, and a spring cooperating with said reel to urge the latter to rotate in a direction to wind the flexible strip thereon and thereby urge the book-supporting members toward one another.

2,284,850
SPEED INDICATING APPARATUS
Philip N. Smith, Melrose Highlands, Mass., assignor to Hammond V. Hayes, Boston, Mass.
Application April 19, 1939, Serial No. 268,800
4 Claims. (Cl. 177—311.5)



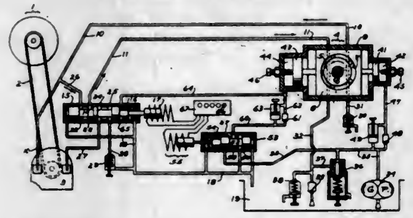
1. Speed indicating apparatus comprising two devices, each responsive to the passage of an object thereby and spaced a definite distance apart, a different discharge circuit controlled by each of the responsive devices, an electrical energy storing device, means whereby a fixed amount of electrical energy is transferred to said energy storing device from the corresponding discharge circuit each time a responsive device responds to the passage of an object, a dissipative circuit connected across the energy storing device, and signal means operated when the instantaneous maximum energy of the energy storing device exceeds a critical value, said dissipative circuit being timed so that the maximum energy in said energy storing device is below said critical value when the speed of said object is below a predetermined value and is above said critical value when said speed is above said predetermined value.

2,284,851
ELECTRIC WELDING MACHINE
Julius B. Tiedemann, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application February 5, 1937, Serial No. 124,171
18 Claims. (Cl. 219—4)



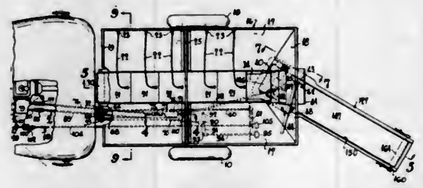
1. In an electric resistance welding machine, a plurality of electrodes for contacting with the work on one side thereof, and means for moving the electrodes relative to one another within the tolerances as to unevenness of the work piece to effect substantially equal pressure engagement of the electrodes with the work.

2,284,852
HYDRAULIC DRIVE
Ransom Tyler, Greenfield, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin
Application June 23, 1938, Serial No. 215,420
9 Claims. (Cl. 60—53)



1. A drive for operating a machine at predetermined speeds, comprising a hydraulic motor for driving said machine, a pump for supplying liquid to said motor to energize the same, hydraulic servo-motor means for varying the volumetric delivery of said pump between two predetermined rates to thereby cause said motor to drive said machine either at a predetermined minimum speed or at a predetermined maximum speed, means for supplying liquid to said servo-motor means to energize the same, means for controlling the operation of said servo-motor means, choke means for limiting the rate of operation of said servo-motor means to thereby cause the delivery of said pump to be gradually varied from one to the other of said rates, a valve for bypassing liquid around said choke means to thereby enable said servo-motor means to quickly vary the delivery of said pump from one to the other of said rates, and means for operating said valve to render said choke means effective or ineffective.

2,284,853
UNLOADING MECHANISM FOR TRUCKS
Reuben E. Wall, Winston-Salem, N. C.
Application November 1, 1940, Serial No. 363,879
8 Claims. (Cl. 214—83)



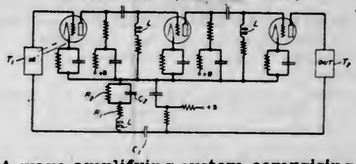
1. In combination, a motor driven truck having a bed provided with downwardly converging sidewalls and a downwardly and forwardly converging rear wall, a trough extending longitudinally of the bed and being disposed below the lower edges of said converging side walls, said rear wall having an opening therein communicating with one end of said trough, a closure member for said opening, a conveyor disposed in said trough, the end of said conveyor terminating approximately at the lower forward end of said opening, a second conveyor having one end thereof universally mounted beneath the rear end of the first conveyor and beneath said opening, and means for driving said conveyors.

2,284,854
HAT MANUFACTURE
Thomas J. Wall, Fairfield, Conn., assignor to The Norwalk Hat Company, Norwalk, Conn., a corporation of Connecticut
Application October 25, 1940, Serial No. 362,869
9 Claims. (Cl. 2—194)



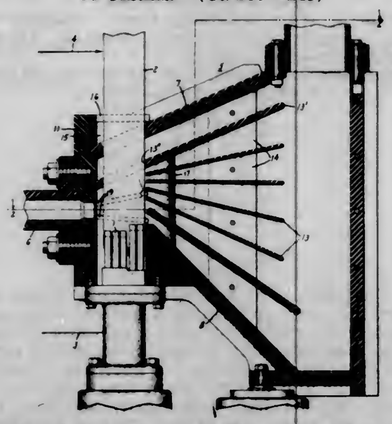
1. The method of hat manufacture which includes the steps of forming a hat bat composed of loosely interfelted fur fibers, partially shrinking the bat, providing an endless strip also composed of loosely interfelted fur fibers but of a different color and mixture than that employed in making up the bat, temporarily securing the strip to the outer face only of the bat and along the lower edge thereof so that the relatively lower edge of the strip substantially coincides with the lower edge of the bat, and simultaneously felting the strip to the bat and shrinking the latter down to final body size.

2,284,855
AMPLIFIER CIRCUITS
Julian M. West, Ridgewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 16, 1939, Serial No. 290,354
8 Claims. (Cl. 179—171)



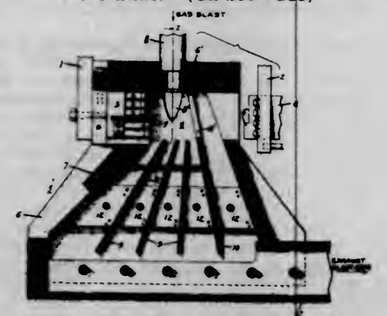
1. A wave amplifying system comprising a plurality of vacuum tube amplifying devices, impedance networks coupling said devices in tandem, a feedback path coupling the output circuit of the last of said tandem connected devices with the input circuit of the first of said devices and an impedance network included in said feedback path, said impedance networks each comprising a plate circuit branch and a grid circuit branch, said networks having a combined attenuation which is substantially constant and small relative to the combined gain of said amplifying devices at frequencies in an assigned operating range, which increases with the decrease of frequency just below said operating range, and which has a progressively changing phase as the frequency is still further lowered, means for delaying the building up of phase shift with decreasing frequencies, said means comprising capacitance shunting a portion of the grid circuit branch of one of said coupling impedances, the magnitude of the capacitance being such as to delay the building up of phase shift with decreasing frequencies until a frequency-level is reached at which the net gain around the feedback loop is less than unity.

2,284,856
GAS BLAST ELECTRIC CIRCUIT BREAKER
Robert M. Bennett, Ithan, Pa., assignor to General Electric Company, a corporation of New York
Application August 5, 1941, Serial No. 405,468
13 Claims. (Cl. 200—148)



1. An electric circuit breaker of the gas blast type for high voltage power circuits comprising relatively movable contacts, insulating structure defining an arc chamber in which said contacts separate to form an arc gap, the walls of said arc chamber along the path of contact movement being appreciably spaced at both lateral sides and at both the upper and lower sides an appreciable and approximately equal distance from the separable contact structure, and means for directing a blast of interrupting gas transversely through said chamber and the arc gap formed therein.

2,284,857
GAS BLAST ELECTRIC CIRCUIT BREAKER
Robert M. Bennett, Ithan, Pa., assignor to General Electric Company, a corporation of New York
Application August 22, 1941, Serial No. 407,866
7 Claims. (Cl. 200—148)



1. A gas blast circuit breaker comprising relatively movable contacts separable to form an arc gap, one of said contacts of blade-like shape and movable to open the circuit, insulating structure defining an elongated passage in which said blade contact is longitudinally movable to form said arc gap, and means for directing a blast of interrupting gas through said passage in a direction substantially transverse to the longitudinal axis thereof and to said arc gap, said blade contact being disposed edgewise to said blast, the insulating side walls of said passage diverging from the leading or blast-impinging edge of said blade contact so that the trailing edge thereof is disposed in a comparatively wide flared part of said passage, said contacts being formed so that the arc to be interrupted is formed in the aforesaid flared part of said passage.

2,284,858
PROCESS FOR THE MANUFACTURE OF NON-METALLIC RESISTANCE MATERIAL
Karl Biefeld, Frei-Enwalde, Oder, Germany, and Edouard Krebs, Paris, France
No Drawing. Application February 10, 1939, Serial No. 255,784. In Germany November 29, 1937
9 Claims. (Cl. 201—76)

1. A process for manufacturing molded non-metallic resistances consisting of complex heavy metal oxygen compounds, said process comprising the steps of preparing an inorganic colloidal mass comprising the components of a complex heavy metal oxygen compound suitable as resistance material in the same stoichiometrical proportions in which they are present in said complex compound, admixing a quantity of said colloidal mass as a binder to a non-colloidal elementary mass comprising the components of the same complex heavy metal oxygen compound in the same stoicheiometrical proportions, molding the mixture to the desired shape, and sintering the molded mixture.

2,284,859
SCISSORS
Lyman C. Blair, Houston, Tex.
Application April 21, 1941, Serial No. 389,667
12 Claims. (Cl. 30—248)



9. In scissors construction, the combination of a first pivotal component comprising a sleeve, a blade at one end of the sleeve and a handle at the other end of the sleeve; a second pivotal component comprising a blade, a pintle connected to said last named blade and having a portion extending through and journaled in said sleeve and an end portion projecting past the handle of said first component, and a handle on said pintle end portion outwardly beyond said first named handle, all portions of said pintle being of sufficiently small diameter to pass through said sleeve for assembly, said end portion of the pintle being formed with a circumferential groove; and a snap ring fitted in said groove and projecting radially from said pintle and overlying the handle of said second component.

2,284,860
RESINOUS DERIVATIVES FROM CELLULOSE AND OTHER SUBSTANCES AND ALCOHOLS
Eduard Färber, New Haven, Conn., assignor to Polyxor Chemical Co., Inc., New Haven, Conn., a corporation of New Jersey
No Drawing. Application April 27, 1939, Serial No. 270,425
9 Claims. (Cl. 260—9)

1. The method of producing a resinous derivative which consists in forming a mixture of at least one material selected from the group consisting of cellulose and pentosans, a relatively small quantity of sulphuric acid but a quantity thereof which in weight does not exceed about six percent of the weight of the material of said group, and an alcohol, there being at least about one-and-one-half gram molecules of alcohol to each gram molecule of the material of said group, permitting the same to react, and removing water of the reaction substantially as formed to permit the reaction to continue until the material of said group has substantially disappeared.

2,284,861
RECOVERY OF CERTAIN METAL SALTS
Eduard Färber, New Haven, Conn., assignor to Polyxor Chemical Co., Inc., New Haven, Conn., a corporation of New Jersey
No Drawing. Application August 4, 1939, Serial No. 288,379
8 Claims. (Cl. 23—87)

1. The method of obtaining the salt of a metal of the group consisting of those metals the atomic weights of which are not less than the atomic weight of nickel and not greater than the atomic weight of copper and an acid of the group consisting of hydrochloric, formic and sulphuric acids, without substantial admixture of a water-insoluble substance, which method consists in adding, to a solution of the metal salt, a relatively small quantity of one or more substances selected from the group consisting of the water-soluble alkali and alkaline earth metal salts of organic acids, and thereafter obtaining substantially all of the metal salt by evaporating the solution to dryness.

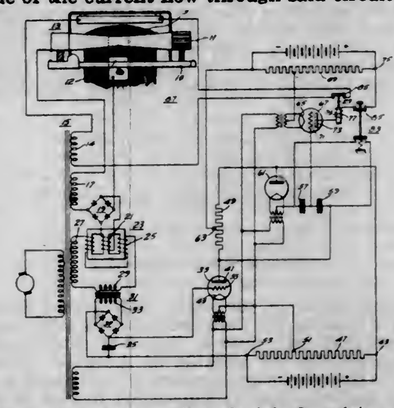
2,284,862
HEATING UNIT AND METHOD OF MAKING SAME
William H. Ginder, Haddonfield, N. J.; Mabel Anna Ginder, executrix of William H. Ginder, deceased
Application June 23, 1939, Serial No. 280,795
2 Claims. (Cl. 201—64)



1. The method of producing an electric heating unit, which consists in providing a core of electric resistance material, placing said core surrounded by magnesium within a casing, immersing said core surrounded by magnesium in a dispersion of silicic acid and a solution of a salt containing the phosphate radical, and then subjecting the whole to sufficient heat and pressure to produce between said core and said casing an insulating medium consisting essentially of magnesium oxide bonded with magnesium silicate and magnesium phosphate.

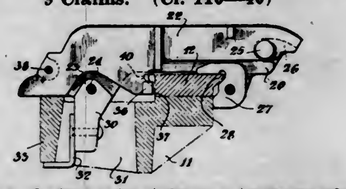
2,284,863
PERMANENT HAIR WAVE INDICATOR
Finn H. Gulliksen, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 28, 1939, Serial No. 264,673
19 Claims. (Cl. 219—24)

1. For use in the heating of hair or the like from a source of current to produce a wave or curl of a predetermined character therein the combination comprising a circuit for supplying said hair with current from said source, electric discharge valve means for controlling the magnitude of the current flow through said circuit and



means responsive to the electrical resistance of said hair for controlling said valve means.

2,284,864
RETURN RAIL KEY ASSEMBLY FOR STOKERS
Robert Hamilton, Closter, N. J., assignor to Combustion Engineering Company, Inc., New York, N. Y.
Application December 2, 1939, Serial No. 307,213
9 Claims. (Cl. 110—40)

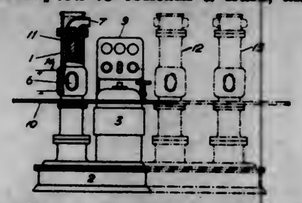


1. In a chain grate stoker; a transversely extending carrier bar having a vertical slot cut in one of its longitudinal faces at a point between its ends; grate keys mounted on said bar beyond said slot; oppositely facing hooks depending from said keys and engaged beneath said bar for securing them thereon, each key being slidable along said bar to aline one hook thereof with said slot to permit lifting and removal of the key from the bar; another key mounted on said bar immediately adjacent the slot therein; hooks on said other key engaged beneath the said bar to prevent lifting of the key from said bar, said key being movable laterally of said bar to disengage its hooks to permit said lifting; a locking member carried by said other key and engaging a face portion of said bar facing in the direction opposite said lateral movement to remove said key for locking said key on said bar; and a pivotal connection between said locking member and said other key for permitting the latter to be disengaged from said bar to enable removal of said other key from the path of said grate keys to positions in which one hook thereof alines with said slot.

2,284,865
MACHINE FOR THE EXTRUSION OF PLASTIC MASSES, SUCH AS RUBBER
Bror Hansson, Stockholm, Sweden, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a corporation of Sweden
Application January 11, 1939, Serial No. 250,306
In Great Britain February 24, 1938
2 Claims. (Cl. 18—12)

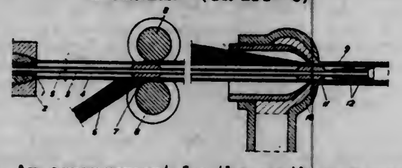
1. A machine for the extrusion of plastic

masses such as rubber comprising a vertically disposed extrusion tube having an inlet adjacent its lower end and an extrusion outlet adjacent its upper end, a shell surrounding and coextensive with said tube to form a chamber therebetween adapted to contain a fluid, and means



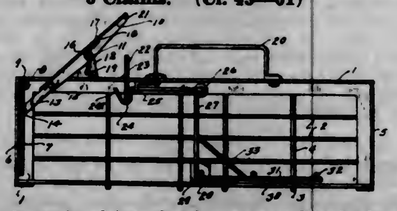
disposed adjacent the lower end of said chamber for heating the fluid contained in said chamber whereby such fluid is heated by said heating means and by the working of the mass in said tube to the proper temperature for extrusion purposes and the heat is thus concentrated in the upper extrusion end of the extrusion tube.

2,284,866
ARRANGEMENT FOR THE MANUFACTURE OF RUBBER HOSE
Bror Hansson, Stockholm, Sweden
Application December 8, 1939, Serial No. 308,117
In Sweden December 10, 1938
2 Claims. (Cl. 154—6)



1. An arrangement for the continuous manufacture of hose of rubber or similar plastic material, comprising an extrusion machine, means for the application of an external reinforcement to the extruded material, means for extruding an external pipe round the hose to serve as an external mould for the hose and as pulling means therefor, and an internal mandrel fixed relatively to the hose extrusion machine and round which the hose is extruded, said mandrel serving as a support for the hose during the reinforcing and extending to a point in the hose where the latter is covered by the external pipe.

2,284,867
ANIMAL TRAP
Carl Harris, Salem, Oreg.
Application May 5, 1941, Serial No. 391,963
6 Claims. (Cl. 43—61)



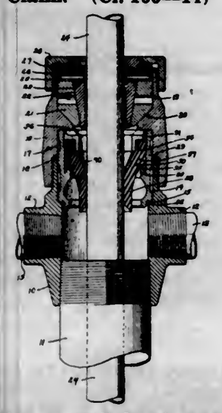
1. An animal trap having a cage-like body, one end of the body having an animal entrance opening, a door for closing the opening, a lever mounted on the upper surface of the body and connected to the door, said lever being manually operable to raise the door to free the entrance opening, a stop within the body to underlie and support the door when the latter is in position to free the entrance opening, a platform in the body and connected to the stop to move the stop to free the door when the platform is subjected to the weight of the animal, the stop being manually operable to a position beneath the raised door for resetting the trap.

2,284,868
EDUCATIONAL APPARATUS
Gertrude M. Heaney, Hollywood, Calif.
Application July 28, 1941, Serial No. 404,275
3 Claims. (Cl. 84—478)



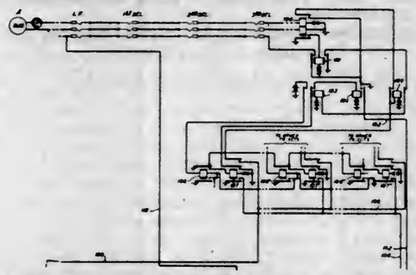
1. Educational apparatus comprising: a set of piano-forte key-simulating elements; a base having end walls provided with upwardly opening slots spaced from the outer sides of said end walls; a rod providing a common axis for said elements and having its ends seated in said slots so as to be confined thereby against axial displacement and to mount the elements rockably on the base for manipulation as in piano playing or utilization as a toy in building various structures according as the elements are mounted or demounted; the base having a retaining flange co-acting with at least certain of the elements to confine said rod against accidental displacement from said slots; and means co-acting with the base and said elements to urge the latter upwardly to a keyboard-forming position.

2,284,869
BLOWOUT PREVENTER
Frank J. Hinderliter, Tulsa, Okla.
Application February 27, 1940, Serial No. 321,017
1 Claim. (Cl. 166—14)



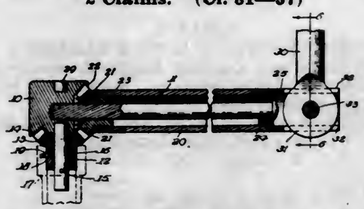
In combination, a well head, and a blowout preventer assembly disposed in said well head comprising a cylindrical rigid sleeve having at its lower end an inwardly inclined seating surface adapted for supporting and abutting cooperation with a seat in the well head, and provided on its interior with an annular shoulder, an annular rubber blowout preventer disposed in said sleeve having an enlarged portion at its upper end seated on said sleeve shoulder, said shoulder being upwardly and inwardly inclined and said rubber preventer having an inclined lip tightly fitted behind said shoulder whereby said rubber preventer is interlocked with said sleeve, said preventer having a downwardly depending reduced cuff-like portion adapted to embrace sealingly pipe lowered through the preventer, said reduced portion being spaced from said sleeve to provide an annular space in which fluid under pressure may enter the preventer between said rigid sleeve and said reduced portion, said sleeve and the enlarged upper portion of said preventer being substantially concentric with said sleeve circumferentially encompassing said enlarged upper portion to restrain said portion against radially outward movement, and means for holding and compressing said annular portion against and in sealed cooperation with said shoulder, said inclined surface having gasket sealing means adapted to establish a seal between the preventer and well head and said head having means for pressing said preventer downwardly to hold said gasket means in sealing position.

2,284,870
TELEPHONE SYSTEM
William H. T. Holden, Woodside, and Benjamin F. Lewis, Bayside, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 20, 1940, Serial No. 357,520
11 Claims. (Cl. 179—27)



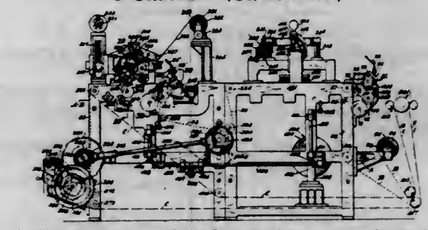
1. A calling line identification circuit for the lines of a telephone system comprising a plurality of electronic devices having control elements connected to said lines according to their numerical designation, and means responsive to the application of a potential to the control elements connected to one of said lines for operating the associated electron devices to indicate the identity of the line.

2,284,871
WRENCH
Henry M. Huss, Aurora, Ill.
Application December 13, 1940, Serial No. 370,036
2 Claims. (Cl. 81—57)



2. A wrench embodying a solid head member provided with two recesses arranged at substantially right angles to each other and opening through contiguous faces of the head, a portion of one recess intersecting the other, a shaft fixedly secured by one end to the head, extending through and beyond one of said recesses, a socket holding element rotatable upon said shaft, a gear connected with said element and operating in one of said recesses, a second shaft fixedly secured by one end to the said head, projecting through and beyond the other of said recesses, a tubular handle supported by the last said shaft, a gear connected with one end of said handle, meshing with the first said gear and operating in the other of said recesses, the teeth of both of said gears being disposed substantially within the confines of the said head, whereby the gears will be protected, a bearing within said handle for the last said shaft, said handle being freely and axially rotatable about its supporting shaft to rotate said gears, a head on the end of the last said shaft, the last said head co-operating with said bearing for maintaining said handle against separation from the first said head and the said gears in mesh, the said bearing being spaced from the free end of said handle, and an operating element connected with said handle intermediate the said bearing and the free end of said handle.

2,284,872
MEANS FOR FORMING WINDOWED APERTURES
Edward T. Jaeger, Rupert Loeffler, Jr., and Louis Bischoff, New York, N. Y., assignors to Oneida Paper Products, Inc., New York, N. Y., a corporation of New York
Application March 23, 1939, Serial No. 263,648
8 Claims. (Cl. 164—89)

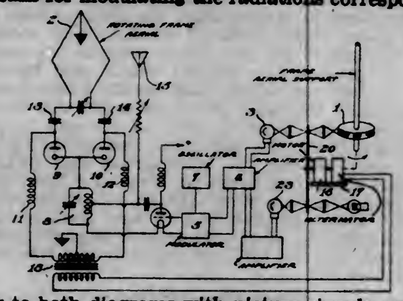


1. In an apparatus for making openings in a web of sheet material moving at a constant speed, a punching mechanism; said punching mechanism comprising in combination a punching plate disposed adjacent the surface of said moving web, and a die adjacent the opposite surface thereof; said die being arranged and adapted to receive said punching plate; means for striking said punching plate through said web and into said die; and means for causing said punching plate and die simultaneously to move with said web at the speed of said web during said punching operation; an extruding member yieldingly mounted in the face of said punching plate; said member forcing the punched-out material away from the face of said punching plate when said punching plate strikes through said web; and a receptacle in communication with the opening of said die for receiving the punched-out material.

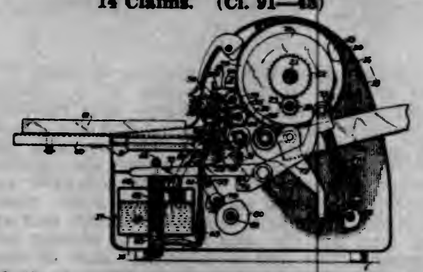
2,284,873
NAVIGATION AIDING RADIO BEACON SYSTEM
Roland John Kemp, Chelmsford, England, assignor to Radio Corporation of America, a corporation of Delaware
Application April 19, 1940, Serial No. 330,457
In Great Britain April 19, 1939
10 Claims. (Cl. 250—11)

1. A navigation aiding radio beacon transmit-

ter installation of the television type comprising means for radiating alternately and periodically two radiations representable by similar but oppositely disposed intersecting polar diagrams which together produce an equi-signal zone along the line of intersection, the rate of alternation of said diagrams being above the rate of persistence of vision, means for rotating the alternated diagrams about the transmitter, picture modulating means for modulating the radiations corresponding to both diagrams with picture signals corresponding to a scanned picture indicative of the momentary direction of the equi-signal zone, means for also modulating said radiations with scanning line synchronising impulses and means for also modulating the radiation corresponding to one of said diagrams with a framing synchronising signal so that a framing synchronising signal is included with the signals sent out on one but not on the other of the two diagrams.

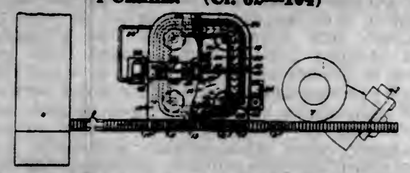


2,284,874
MOISTENING APPARATUS FOR DUPLICATING MACHINES
Stephen Kokay, Chicago, Ill., assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia
Application December 14, 1940, Serial No. 370,153
14 Claims. (Cl. 91—48)



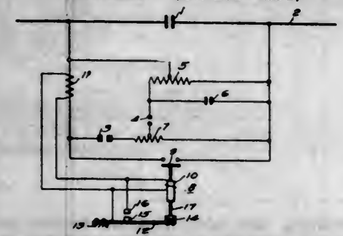
1. In a moistening mechanism for a liquid process duplicating machine, the combination of a rotatably mounted roller, means cooperating with said roller for forwarding a copy sheet in contact with the roller, a spreader roller rotatably mounted in pressure relationship to said first-named roller, a drain pan positioned below said spreader roller and extending underneath the line of contact of said two rollers, means for delivering liquid into the bight of the said two rollers above their line of contact with each other, seal plates bearing on the ends of said two rollers above said drain pan and having openings therethrough at points well above the line of contact of the rollers and well below the uppermost face portions of the rollers, and troughs on the outer faces of said seal plates below said openings through the plates adapted to carry excess liquid away from said rollers and away from said drain pan.

2,284,875
BOTTLE COOLING UNIT
Archie E. Ladewig, Waukesha, Wis.
Application July 19, 1940, Serial No. 346,296
4 Claims. (Cl. 62—104)



1. A bottle cooling unit comprising, a casing having therein a liquid basin and being provided with adjoining inlet and outlet guides associated with a common opening, a conveyor continuously operable within said casing to transport successive bottles in upright position from said inlet to said outlet guide, spray pipes disposed above said conveyor for spraying cooling liquid against the exteriors of the bottles, a pump for circulating liquid from said basin through said pipes, and a refrigerating coil for cooling the liquid in said basin.

2,284,876
PROTECTIVE SYSTEM FOR SERIES CAPACITORS
Ralph E. Marbury, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 24, 1940, Serial No. 331,355
7 Claims. (Cl. 175—294)



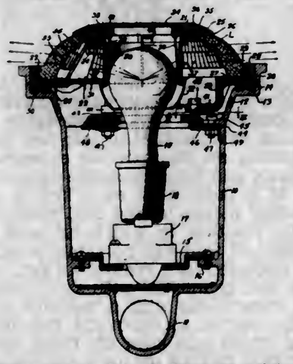
1. A series capacitor equipment for an alternating current line comprising a capacitor connected in series with the line, a main gap device for shunting the capacitor to by-pass the line current under excess-current conditions, shunting means responsive to said excess current for completing a shunt circuit around said gap device, and means for effecting interruption of said shunt circuit after a predetermined time interval, said last-mentioned means being started in operation substantially simultaneously with the operation of said shunting means.

2,284,877
LIGHT SENSITIVE COLOR ELEMENT
Michele Martinez, London, England, assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application May 22, 1941, Serial No. 394,663
In Great Britain June 3, 1940
8 Claims. (Cl. 95—7)



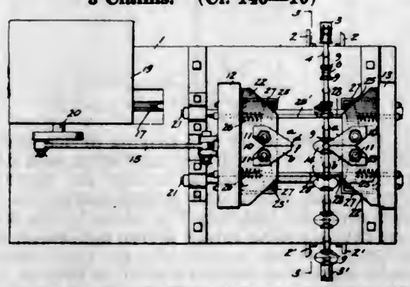
1. The method of forming a sensitive photographic layer capable of producing a colored image which comprises precipitating a silver halide in a solution of a water-insoluble resin containing a color former, suspending particles of the solution of resin containing silver halide and color former in gelatin and coating the suspension on a support.

2,284,878
RUNWAY MARKER LIGHT
Thomas E. McDowell, Oak Park, Ill., assignor to The Pyle-National Company, Chicago, Ill., a corporation of New Jersey
Application February 20, 1941, Serial No. 379,751
3 Claims. (Cl. 240—1.2)



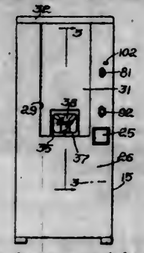
1. A runway marker light comprising a housing to be set into the ground adjacent to the side of a runway and providing an annular seat at its upper end, a cover structure for mounting on said seat, a lamp supported within said housing for extension into said cover structure, an annular lens on said cover structure for deflecting the light rays from the lamp to form zones along the runway, abutments within said housing, an annular securing member for engagement against the under sides of said abutments, arms extending from said cover structure above said abutments, screws connecting said arms and said annular securing member, said screws when loosened permitting rotational adjustment of said cover structure on its seat for the proper locationing of the light zones by the lens along the runway, said screws when tightened causing said abutments to be clamped between said arms and said securing member for rigidly holding the cover structure in its adjusted position.

2,284,879
CASHEW NUT SHELLING DEVICE
Clarence T. Nemir, Austin, Tex.
Application June 9, 1939, Serial No. 278,355
3 Claims. (Cl. 146—10)



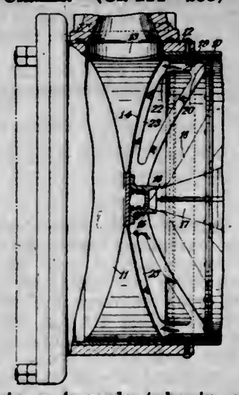
1. A device for shelling nuts comprising a fixed and a movable member, a pair of spaced parallel and rotatable shafts on each member, a blade element fixed on each shaft and having a cutting edge beveled on one side, a crank arm on each shaft, means normally positioning the shafts and blade elements so that paired elements of the respective members are in lateral contact along the flat sides of their respective cutting edges, striker rods carried by each member and adapted to contact the crank arms of the shafts on the other member at a predetermined movement of the movable member toward the fixed member for turning the shaft to swing apart the said blade elements, and means for moving the movable member toward and away from the fixed member.

2,284,880
DRINK VENDING MACHINE
Ralph A. Nicholson, Chicago, Ill., assignor to Raymond T. Moloney, Chicago, Ill.
Application December 28, 1938, Serial No. 248,114
20 Claims. (Cl. 225—21)



1. A drink vender comprising a bulk container for carbonated beverage, a measuring vessel, a pouring spout, an input conduit connected between the container and vessel, an output conduit between the vessel and spout, a control valve in the input conduit, a control valve in the output conduit, a vent valve in the vessel, and means, for causing the latter valve to open at a time when the other two valves are closed.

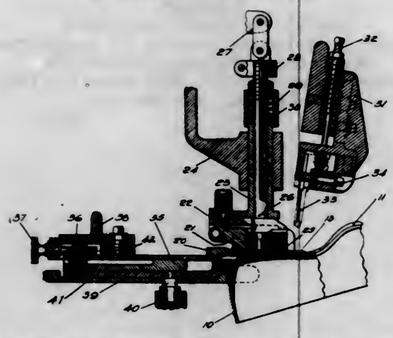
2,284,881
TORPEDO TUBE
Hubert Scott-Paine, Hythe, Southampton, England
Application June 14, 1940, Serial No. 340,588
In Great Britain June 16, 1939
2 Claims. (Cl. 114—238)



1. For use in a torpedo tube in cooperation with a torpedo having at its end a central boss and fin-brackets, a piston comprising a flexible

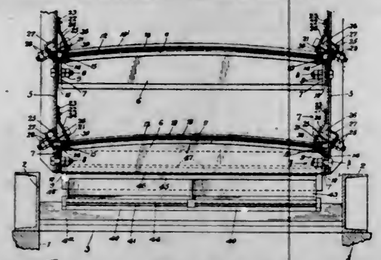
sheet-metal disc of domed formation, a central boss secured to the centre of said disc on its concave side and adapted to cooperate with the central boss of the torpedo, and a flange carrying a packing material and secured to the edge of said flexible disc and adapted to fit the inside of the torpedo tube and abut the fin-brackets on the torpedo.

2,284,882
PROCESS OF HEEL SEAT FITTING
Percy L. Sinclair, Auburn, Maine, assignor to Lumbard-Watson Co., Auburn, Maine, a corporation of Maine
Application March 5, 1941, Serial No. 381,775
10 Claims. (Cl. 12—142)



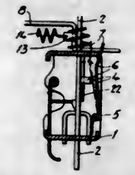
1. The process of fitting heel seats of rubber sole shoes, which consists in deforming by surface pressure the heel seat portion of a rubber sole, employing therefor instrumentalities which include a layer of cardboard in direct contact with the outer face of the sole, and then lengthwise splitting the heel seat while so pressed and deformed.

2,284,883
SECURING MEANS FOR SCREEN CLOTH
Loren Glenn Symons, Hollywood, Calif., assignor to Nordberg Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application October 21, 1940, Serial No. 362,098
16 Claims. (Cl. 209—403)



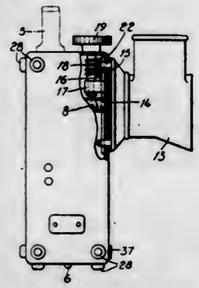
6. In a screen deck, side frame members, transversely extending cross members, screen mesh positioned above said cross members, means for drawing said screen mesh downwardly against said cross members, including individual transversely extending tension members superposed upon the screen mesh and opposed to and overlying the individual cross members, and means for individually applying tension to said members and for thereby drawing said tension members and said screen mesh against said cross members.

2,284,884
CASH REGISTER, BOOKKEEPING, AND CALCULATING MACHINE
Karl Matts Vigborg, Stockholm, Sweden, assignor to Kooperativa Förbundet Förening U. P. A., Stockholm, Sweden
Application September 25, 1939, Serial No. 296,379
In Sweden August 31, 1938
2 Claims. (Cl. 235—27)



1. In a cash register including at least one salesman's or transaction key bank having a plurality of depressible keys, a rockable member hinged on an axis parallel to said key bank, said member having an edge portion extending along said key bank and being rockable into and out of the path of a portion of each key in said key bank, resilient means urging said member into a key locking position in which its edge projects into the path of said key portions, a locking device to be operated by a removable key, and a reciprocable link connected with said member and positively cooperating with a movable portion of said locking device to rock said member into a position in which said keys are freed for depression when said locking device is unlocked and to prevent locking of said locking device when said rockable member is not in its key locking position, each key including a portion disposed in the path of a portion of said rockable member when said key is depressed, whereby said rockable member cannot be restored to its key locking position and said locking device cannot be locked as long as any key in said key bank is depressed.

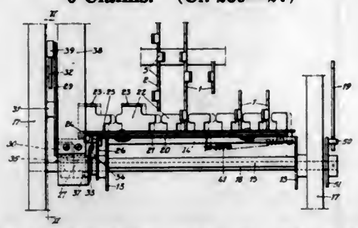
2,284,885
PORTABLE DRIVING DEVICE
Karl Matts Vigborg, Stockholm, Sweden, assignor to Kooperativa Förbundet Förening U. P. A., Stockholm, Sweden
Application December 8, 1939, Serial No. 308,210
In Sweden December 22, 1938
3 Claims. (Cl. 64—4)



1. The combination of a driving device and an exchangeable rotary driven appliance, said driving device comprising a casing, an electrical motor in said casing and means located on the motor shaft for coupling the latter to the shaft of the exchangeable rotary driven appliance, said appliance having a plurality of pins secured thereto, said pins being adapted to project into corresponding holes of said casing, and a single

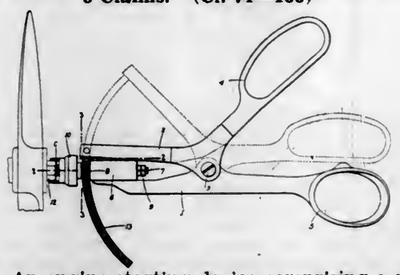
slidable locking means located in said casing and being capable of engaging said pins of said appliance.

2,284,886
CASH REGISTER AND THE LIKE
Karl Matts Vigborg and Knut Folke Bratt, Stockholm, Sweden, assignors to Kooperativa Förbundet, Förening U. P. A., Stockholm, Sweden
Application October 15, 1940, Serial No. 361,232
In Sweden May 4, 1939
6 Claims. (Cl. 235—27)



1. In a calculating machine having amount key banks and a special key bank, and, for each amount key bank, a differential setting rack, the combination of a reciprocable member extending past all said setting racks, a spring urging said member towards an end position, a series of locking means on said member arranged to engage said setting racks and to lock the same in their zero positions when said member assumes said end position, cam controlled means to displace said member at the end of each working stroke against the action of said spring to a position in which said locking means are out of engagement with said setting racks and to prevent said member from moving towards said end position until it is released after the beginning of the next succeeding working stroke, a movable stop adapted to be displaced from an inoperative position to an operative position in which it is disposed in the path of a portion of said reciprocable member so as to arrest the latter, after its release from said cam controlled means, in a position in which said locking means are still disengaged from said setting racks, and means to displace said movable stop from said inoperative position to said operative position upon depression of any key in said special key bank.

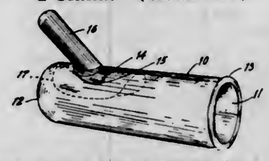
2,284,887
ENGINE STARTING DEVICE
Emil Vollenweider, Sacramento, Calif.
Application April 1, 1940, Serial No. 327,183
5 Claims. (Cl. 74—133)



1. An engine starting device comprising a pair of levers pivoted together intermediate their ends, finger grips on one end of the levers, a longitudinal boss formed on the other end of one lever, a rotatable shaft extending longitudinally out from said boss, a pinion fixed on the shaft,

an outwardly opening socket member on the shaft beyond the pinion, and an arcuate segmental rack gear fixed on the adjacent end of the other lever and meshing with said pinion.

2,284,888
DEMONSTRATING DEVICE FOR VAGINAL DIAPHRAGMS
James R. Arneill, Jr., Denver, Colo., assignor to Arc Diaphragm & Drug Co., Denver, Colo., a corporation of Colorado
Application April 14, 1941, Serial No. 388,442
1 Claim. (Cl. 35—17)

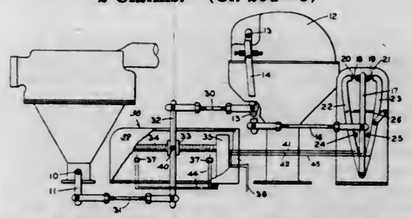


A demonstrating device for vaginal diaphragms comprising: a straight, smooth, cylindrical tube of transparent material open at one extremity; a rounded end closing the other extremity of said tube; a rounded peripheral bead surrounding the open extremity of said tube; a protuberance secured against the inner wall of said tube adjacent the rounded extremity and projecting toward the axis of said tube; and a handle member extending from a point on the exterior of said tube adjacent said protuberance outwardly on an incline toward the rounded end of said tube.

2,284,889
METHOD OF DESTROYING ALGAE IN COOLING TOWERS
Gerald M. Fisher, Los Angeles, Calif., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application February 17, 1941, Serial No. 379,381
1 Claim. (Cl. 210—23)

The method of preventing the growth of algae in water pools, cooling towers, spray condensers and the like which consists in immersing a body of copper naphthenate in the water to be treated.

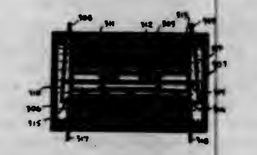
2,284,890
GOVERNOR COMPENSATOR
Howard D. Green, Compton, Calif., assignor to MacClatchie Manufacturing Company of California, Compton, Calif., a corporation of California
Application May 22, 1939, Serial No. 274,994
2 Claims. (Cl. 264—8)



1. The combination of an engine having a throttle, a governor adapted to operate said throttle, and a compensating mechanism operated by said governor, said compensating mechanism comprising a screw, a compensating member adapted for reciprocal movement on said screw, said compensating member being directly

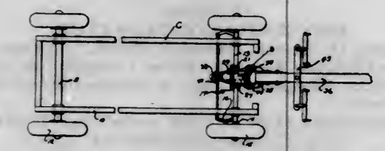
connected to said governor and to said throttle, and a member having contact points operatively connected to said governor, one of said contact points being adapted to close a circuit including a reversible motor which is adapted to rotate said screw in one direction when the load on said engine is increased and the other of said contact points being adapted to close a circuit including said reversible motor which is adapted to rotate said screw in the opposite direction when the load on said engine is decreased.

2,284,891
BALANCED RELAY
Henry E. Hartig, Robbinsdale, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application June 9, 1939, Serial No. 278,210
19 Claims. (Cl. 200—100)



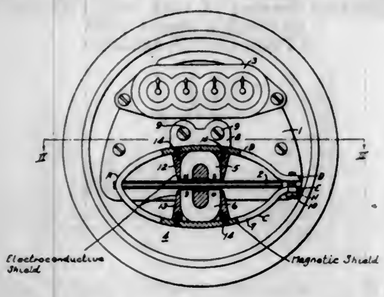
7. In apparatus of the character described, in combination, means forming a sealed container, a liquid in said container, means comprising an electrically energizable coil winding associated with said container, an armature within said container, buoyant means in said liquid for supporting said armature, said coil winding means being exterior of said container, and electrical contacting means in said container operable by said armature, said armature being movable in response to variations in the energization of said winding means.

2,284,892
STEERING MECHANISM FOR VEHICLES
Reinhardt Persinske, Racine, Wis., assignor of one-half to Caspar W. Leinen, Racine, Wis.
Application February 8, 1941, Serial No. 378,011
5 Claims. (Cl. 280—33.55)



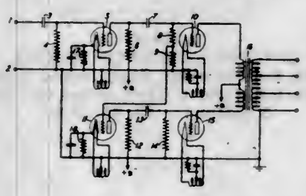
1. A steering mechanism for following vehicles comprising, a clamp bar, means for firmly securing the clamp bar to one face of the front axle of the vehicle, said clamp bar having a bearing, a turntable platform fitted upon the upper face of the clamp bar and adapted to engage the upper face of the axle, a depending flange on the platform for lying in front of the axle, set screws carried by the flange for engaging the axle, a main steering lever having a turntable for engaging the platform, a king bolt extending through the steering lever, its turntable, the platform, and bearing, a draft tongue pivotally connected to the steering lever, and means for pivotally connecting the rear end of the steering lever to the cross rod of a front vehicle steering assembly.

2,284,893
ELECTRICAL MEASURING INSTRUMENT
Thomas D. Barnes, West Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 5, 1940, Serial No. 312,526
8 Claims. (Cl. 171—34)



1. In a measuring instrument, an electro-conductive armature member, means mounting said electro-conductive armature member for movement, and means for damping movements of said armature member comprising damping magnet means, magnetic supporting means mounting said damping magnet means in position to establish a damping magnetic field in the path of movement of said electroconductive armature member, said magnetic supporting means being positioned to form a magnetic shield for said damping magnetic means, and electroconductive means closely surrounding a substantial portion of said damping magnet means for establishing a shield therefor against variable magnetic fields.

2,284,894
ELECTRIC WAVE AMPLIFIER
Michael J. Burger, South Ozone Park, N. Y., assignor to Western Electric Company, Incorporated, a corporation of New York
Application December 4, 1940, Serial No. 368,416
3 Claims. (Cl. 179—171)



1. A push-pull amplifier, a driver amplifier for supplying oscillations to one side of said push-pull amplifier and having circuit elements of such constants as to produce a definite ratio of even order distortion products to the fundamental of the applied oscillations, an inverter amplifier having an input connected to the output of said driver amplifier and an output connected to the other side of said push-pull amplifier and having circuit elements of such constants as to produce even order distortion products of the applied oscillations of such magnitude and phase as to substantially neutralize the even order distortion products supplied by said driver amplifier to said push-pull amplifier.

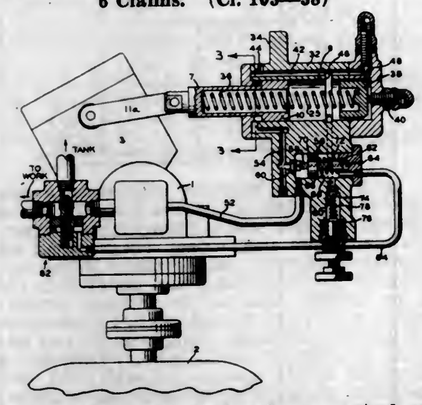
2,284,895
TREATMENT OF TEXTILES TO IMPART WATER-REPELLENCE
William E. Hanford and Donald F. Holmes, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 8, 1937, Serial No. 168,084
15 Claims. (Cl. 8—120)

11. A process which comprises impregnating a cellulose textile material with an isothiocyanate of the formula RNCS in which R is an aliphatic hydrocarbon radical containing more than ten carbon atoms, and heating the impregnated material until the material becomes water-repellent.

2,284,896
PROCESS FOR MAKING POLYMERIC PRODUCTS AND FOR MODIFYING POLYMERIC PRODUCTS
William E. Hanford and Donald F. Holmes, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 24, 1939, Serial No. 275,539
20 Claims. (Cl. 260—2)

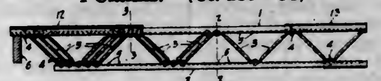
1. A process which comprises reacting an organic compound containing, as the sole reacting groups, a plurality of separate and distinct groups having the formula —X=C=Y, wherein X is a member of the class consisting of —C and N and Y is a member of the class consisting of O, S, and NR where R is a member of the class consisting of hydrogen and monovalent hydrocarbon radicals, with an organic substance having a plurality of groups containing reactive hydrogen.

2,284,897
POWER TRANSMISSION
Ferris T. Harrington, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application October 26, 1940, Serial No. 362,955
6 Claims. (Cl. 103—38)



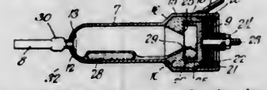
1. A pressure-actuated volume control unit adapted to be used with a variable delivery pump comprising a cylinder housing, a slidable piston located therein having an operable connection with a volume control member of said pump, means normally urging said piston to full volume position, a pressure connection between an outlet of said pump and one end of said cylinder, a pressure responsive relief valve in series in said pressure connection, and a tank connection opening from said cylinder beyond the relief valve, said tank connection being substantially restricted but constantly open to continuously bleed fluid from said cylinder at a low rate.

2,284,898
STRUCTURAL SYSTEM
Rudolph B. Hartman, Hartland, Wis.
Application November 29, 1939, Serial No. 306,619
4 Claims. (Cl. 189—34)



3. A structural unit, comprising a plurality of nested strips of material of substantially uniform thickness bent into continuously curved cross section providing an open arcuate shape for nesting by transverse movement and adapted to resist buckling under the action of longitudinal compressive forces and provided with holes spaced uniformly in the direction of their length, said strips constituting laminations bolted together in substantially continuous contact with one another and being adapted to be connected to like units for building up beams, girders, columns, posts and the like.

2,284,899
METHOD OF MAKING MERCURY SWITCHES
Uno C. Hedin, Elkhart, Ind., assignor to Bucklen-Bear Laboratories, Inc., Elkhart, Ind., a corporation of Indiana
Application March 21, 1940, Serial No. 325,154
10 Claims. (Cl. 29—155.5)



1. In the process of manufacturing a metal envelope mercury switch having a ceramic insert in one end thereof and a tubulation in the opposite end thereof, the novel steps which comprise placing the envelope, insert and tubulation individually into a furnace, heating said parts in a hydrogen atmosphere to expel occluded gases therefrom and simultaneously expand said metal parts to open the pores thereof to hydrogen, inserting said ceramic into the end of said envelope while hot, and cooling said parts in a hydrogen atmosphere to shrink said envelope about said insert and simultaneously close said envelope pores to trap hydrogen therein.

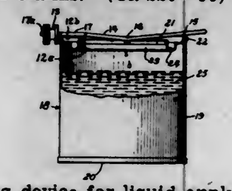
2,284,900
OUTDOOR SLEEPER
Owen D. Henderson and Gertrude W. Henderson, Miami, Fla.
Application February 8, 1941, Serial No. 378,072
2 Claims. (Cl. 5—122)



1. A sleeping hammock comprising a flexible envelope having bottom, side, end and top walls, and provided in the top wall thereof with an enlarged opening for the passage of the body into and out of the envelope, and a flexible sheer fabric sheet

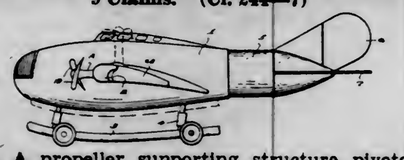
coacting with the opening to form therewith a window, said sheet being secured at one edge thereof to the top wall of the envelope at one edge of said opening, and having end edges overlying the sides of the envelope, guide members on the side walls of the envelope exteriorly thereof and extending longitudinally, and guide rings on the end edges of said sheet coacting with said guide members to facilitate the extending and retracting of the sheet relative to said opening; and a second outer cover sheet for said opening of heavier material than the first-mentioned sheet; said outer covering sheet being secured at one edge thereof to the top wall of the envelope and having opposite end edges equipped with guide rings, and guide members for the outer covering sheet secured to the sides of the envelope and with which the rings of said top cover sheet are engaged to facilitate extending and retracting said outer cover sheet with respect to said opening, pull elements for said outer covering sheet secured thereto and trained through openings provided therefor in an end wall of said envelope, and interengaging means on the free ends of said pull ropes and on the side walls of the envelope, interiorly of the latter, coacting to retain the ropes in an out-of-the-way position when the hammock is in use.

2,284,901
PAINT BRUSH CLEANER FOR CANS
Frank C. Hill, Chicago, Ill.
Application March 11, 1940, Serial No. 323,257
4 Claims. (Cl. 220—90)



1. A wiping device for liquid-applying brushes comprising a bar member adapted to extend crosswise of the open top of a container, said bar member having a depressed portion defining a drip and an end portion in angular relation thereto in the plane of the rim defining the top of the container, the angular end of said bar member having a laterally extending stiff flat flange portion and a threaded portion extending beyond in normal relation to the outside of the container, and a nut engaging said threaded portion and arranged to coact with said flange portion for detachably connecting said wiping device to a portion of the rim of said container.

2,284,902
AIRPLANE
John Lester Hosford, Boonville, Mo.
Application September 21, 1940, Serial No. 357,805
9 Claims. (Cl. 244—7)



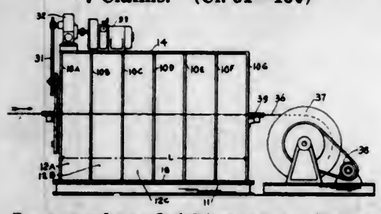
1. A propeller supporting structure pivotally supported at one end in a part of a plane for movement from a horizontal position to a vertical position and vice versa, means for turning said structure from one position to the other, a propeller carried by the structure, means for rotating the propeller, a contractible and expansible tail portion and means operatively connected to the means for moving the structure from one position to the other, for contracting the tail portion when the propeller structure is raised to vertical position and to expand the tail portion when the propeller structure is moved to horizontal position, whereby the tail structure acts as balance means.

2,284,903
AUTOMOTIVE MILEAGE REMINDER OF THE DIAL TYPE
Louis Ilmer, Cortland, N. Y.
Application June 17, 1940, Serial No. 340,913
4 Claims. (Cl. 40—70)



4. An automotive mileage reminder comprising a cup-shaped casing including a crown plate having a sight hole therethrough and which plate is circumscribed by an internally grooved rim flange, a manipulative annular dial plate of which the outer perimeter is rotatably guided within the rim flange groove in a laterally spaced relation to the crown plate and which groove constitutes the sole guidance for said dial, said dial having a series of indices on one side face that normally remain masked behind the crown plate and are arranged to be selectively shifted into visible registry with said sight hole, and a companion dial pivotally mounted flatwise within the inner confines of said annular dial plate.

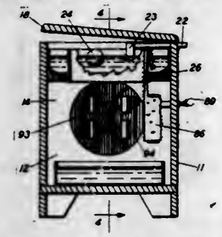
2,284,904
ABRASIVE WIRE POLISHER
Louis Ilmer and Vernon R. Pallas, Cortland, N. Y.
Application November 22, 1940, Serial No. 366,596
7 Claims. (Cl. 51—150)



1. In a surface finishing apparatus, a compartmental housing comprising a row of laterally spaced partition plates fixedly erected upon a unitary sub-base and respectively provided with a similar polygonal edge contour including a horizontal top component, said plates each having an opening adapted to slidably thread a common work piece therethrough, a sectionalized hood inclosing a housing compartment and serving as a closable access agency thereto, an articulated medial section of said hood being disposed to spanningly rest upon two or more of such top edge components to constitute a platen, plural control shafts extending inwardly through certain adjacent partition plates and which shafts are coupled together by a gear train, a motorized variable speed transmission unit mounted upon said platen and operatively connected to drive the gear train, an abrasive tape disposed within each housing compartment and respectively brought into engagement with said work piece, driven feed roller means for certain of said shafts and arranged to collectively advance the several tapes toward the work piece, and means for dragging said work piece lengthwise through said row of plates.

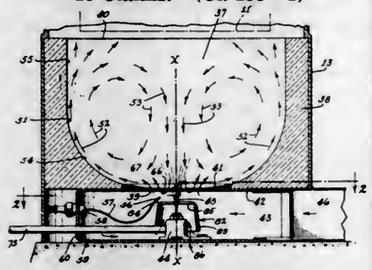
7. A surface polishing apparatus provided with tape carrier means of which its tape is brought into abrasive engagement with a treated work piece, driven feed means aranged to advance said tape into the cutting zone thereof, backing jaw means serving to press the engaged tape portion toward said work piece and which tape is normally kept interposed between the jaw means and the work piece, and emergency tell-tale indicating means for automatically relieving the pressure exerted by the jaw means.

2,284,905
EVAPORATIVE COOLER
Roy Clay Jackson, Los Angeles, Calif.
Application November 13, 1940, Serial No. 365,512
8 Claims. (Cl. 45—133)



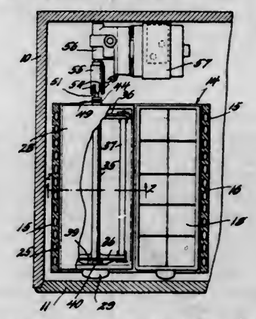
1. Refrigerating apparatus comprising a housing, a trough extending horizontally therein and adapted to receive a supply of water, a number of receptacles adapted to receive matter to be refrigerated, each of said receptacles comprising a pouch of absorbent material, a supporting hook affixed thereto in position to be engaged upon an edge of said trough, and a wick extending from said pouch into said trough, and means supplementary to said wicks for delivering water by gravity from said trough to said receptacles.

2,284,906
METHOD AND APPARATUS FOR BURNING FUEL
Walter B. Kerrick, Los Angeles, Calif., assignor to Clayton Manufacturing Company, Alhambra, Calif., a corporation of California
Application March 6, 1939, Serial No. 259,957
19 Claims. (Cl. 158—4)



2. In a fuel burning apparatus, the combination which comprises: wall means defining a combustion chamber of substantially circular cross section having a restricted and substantially unobstructed circular inlet opening at one end of materially smaller diameter than the internal diameter of said chamber adjacent said opening and an outlet opening at the other end of larger diameter than the inlet opening, said inlet opening being axially aligned with said combustion chamber and with said outlet opening; means for delivering a whirling annular stream of air into said chamber, through the outer portion of said inlet opening and concentric therewith, with a sufficiently high velocity of whirling motion about the axis of the chamber to maintain a rotating-vortex-ring-like motion of gas within the chamber and about said axis including an outer portion having a component of motion away from said one end and an inner portion having a component of motion toward said one end; and means for introducing fuel into said chamber.

2,284,907
REFRIGERATING APPARATUS
Bertram Y. Kinzey, Richmond, Va.
Application December 23, 1938, Serial No. 247,510
8 Claims. (Cl. 62—114)

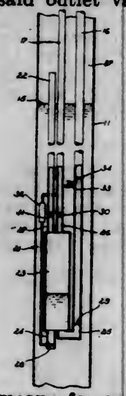


1. In refrigerating apparatus for domestic use of the type provided with an ice tray receiving chamber having a front opening through which ice trays may be introduced, the combination with a dessert container for reception within said chamber, said container having flat external surfaces defining generally a rectangular parallelopiped and being open at the upper side to permit the introduction of a dessert mixture therein, said container having a substantially semi-cylindrical lower internal surface, of agitating means supported in said container for rotation about a generally horizontal axis substantially coextensive with the axis of the said semi-cylindrical internal surface, and closure means for the open upper side of said container, said closure means being formed to afford an internal, substantially semi-cylindrical surface disposed in complementary relation to said first named internal surface.

2,284,908
DEEP WELL PUMPING MECHANISM
Robert T. Knapp, Pasadena, Calif., assignor of one-fourth to Rudolph A. Reik and one-fourth to Forrest O. Reik, both of Los Angeles, Calif.
Application January 10, 1939, Serial No. 250,143
11 Claims. (Cl. 103—245)

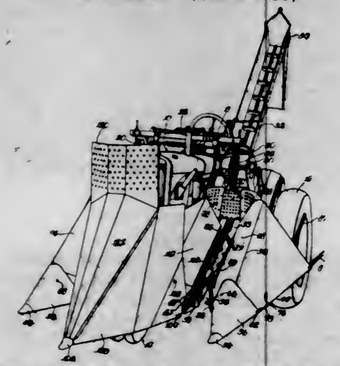
1. In an apparatus for pumping liquids from wells: a submerged pumping chamber in the well communicating with the liquid in the well; a first conduit for discharging liquid and connecting said pumping chamber with the well surface; a first check valve between the liquid in the well and the pumping chamber adapted to open inwardly of said chamber; a second check valve adapted to open outwardly from said chamber

into said liquid conduit; a source of pumping fluid under pressure; a second conduit connecting said source with said pumping chamber; an outlet for said pumping fluid from said pumping chamber; inlet and outlet valves controlling the flow of pumping fluid from said source to said chamber and from said chamber into said outlet; means operated by fluid under pressure for mechanically opening said inlet valve and concurrently closing said outlet valve; an energy-



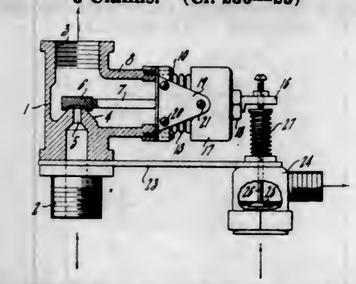
storing retrieving means for mechanically closing said inlet valve and opening said outlet valve; a fluid operated means for closing said first check valve; a third conduit conducting fluid under pressure to said inlet and outlet valve operating means, and to said check valve closing means for the concurrent actuation of said inlet and outlet valve operating means and said check valve closing means; and means for intermittently interrupting the supply of fluid under pressure in said third conduit.

2,284,909
CORN HARVESTER
Henry J. Kuhlman, Waterloo, Iowa, assignor to Kuhlman Manufacturing Company, Waterloo, Iowa, a corporation of Iowa
Application August 3, 1940, Serial No. 350,317
8 Claims. (Cl. 56—18)



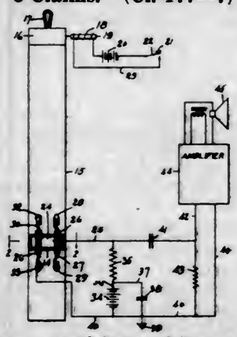
1. In a corn harvester adapted to be mounted upon a tractor including a frame for supporting coacting picking and husking rolls and gathering chains extending along said rolls, the combination of a gathering chain guard unit comprising a forwardly extending toe piece having a point in front and spreading toward the rear to an enlarged cross sectional shape, said toe piece being pivotally secured at the rear to the frame, a side guard having an upper ridge extending rearwardly from the top of the toe piece, said guard projecting laterally and downwardly to a lower edge adjacent the gathering chains, coacting temporary engaging elements on said lower edge and on the frame respectively for temporarily holding said lower edge in place, means for positioning the toe piece including a bracket on the frame and interlocking elements on said bracket and said toe piece respectively adapted when engaged to hold the toe piece normally in an upwardly tilted position overlapping and securing the side guard and when disengaged to release the toe piece to permit removal of the side guard.

2,284,910
FLOW CONTROL SYSTEM FOR GAS BURNERS
Herbert J. Long, Springfield, Mass.
Application January 28, 1939, Serial No. 253,261
3 Claims. (Cl. 236—25)



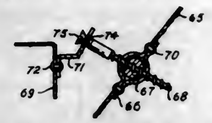
1. A flow-controlled device for instantaneous water heaters including a member forming a portion of a water supply line, a vane within said member movable in response to the flow of water through said line, a stem attached to said vane and projecting outwardly through an opening in said member, a bellows surrounding said opening and attached at one end to said member and at its opposite end to said stem, the interior of said bellows being subjected to the pressure in said line, means to prevent longitudinal distortion of said bellows while permitting lateral distortion thereof in response to movements of said vane, and a gas valve actuated by forces transmitted thereto from said vane through lateral distortion of said bellows to control the flow of fuel to a burner of said heater.

2,284,911
MUSICAL INSTRUMENT
Louis A. Maas, Glendale, Calif.
Application April 12, 1940, Serial No. 329,260
5 Claims. (Cl. 177—7)



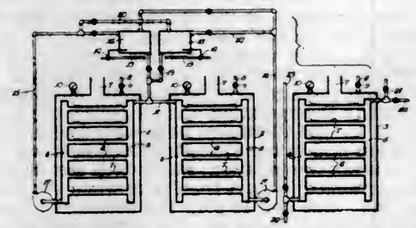
1. A chime, comprising a chime member forming one part of a condenser, a plate insulated from said chime member, and insulated spring members supporting said plate on the chime member, the said plate having a different contour from the chime.

2,284,912
AIR DUCT DAMPER
John Earle Maynard and Paul O. Collins, Elyria, Ohio
Application April 6, 1939, Serial No. 266,439
11 Claims. (Cl. 98—41)



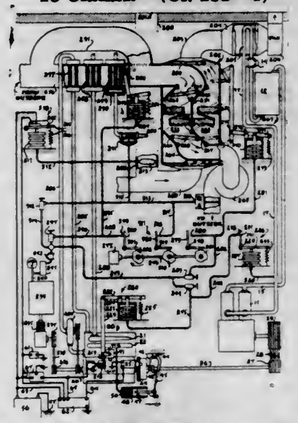
1. A damper assembly, comprising in combination, a damper adapted for being mounted in an air duct, a damper plate substantially overlying an aperture in said damper and in rigid relation with said damper, a cylindrical nut of substantially a uniform diameter thruout its length and apertured diametrically substantially midway between its ends that are rotatably journalled between said damper plate and said damper and said nut assisting in substantially uniformly obstructing the passage of air thru said damper aperture for all adjusted positions of said damper, end portions of said plate engaging the opposite ends of said nut for arresting the axial motion thereof, and damper operating means disposed in said nut aperture for adjusting said damper in said air duct thru its operative engagement with said nut.

2,284,913
DRYING PROCESS
Alfred H. McComb, Chicago, Ill.
Application December 9, 1939, Serial No. 308,363
16 Claims. (Cl. 99—204)



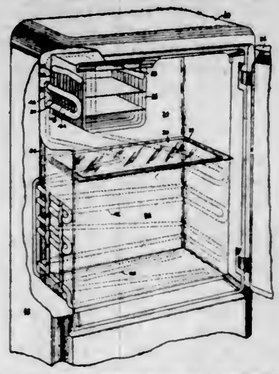
1. The process of drying a moisture containing food product that includes the steps of enclosing said product within an air tight chamber, maintaining the area within said chamber and around said product at an elevated temperature substantially above the boiling point of water at atmospheric pressure, continuously withdrawing the air from within said chamber while admitting air therein at a ratio between the amount withdrawn and the amount admitted to maintain a uniform relatively high partial vacuum within said chamber, then discontinuing the admission of air to within said chamber and withdrawing substantially all of the air from said chamber, and thereafter repeating the aforesaid steps of admitting air to within said chamber and discontinuing such admission and withdrawing substantially all of the air from within said chamber, while maintaining the said elevated temperature within said chamber.

2,284,914
AIR CONDITIONING SYSTEM
Leo B. Miller, Hartsdale, N. Y., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application July 16, 1937, Serial No. 154,023
18 Claims. (Cl. 183—4)



5. In an air conditioning system, in combination, a conditioning chamber through which air to be conditioned is passed, a dehumidifying means in said chamber of the type utilizing a material causing condensation of the water vapor in the air and transfer of the latent heat of evaporation of the water vapor to the air thereby causing the air to be raised in temperature during the dehumidifying action, a refrigeration system including an evaporator in said chamber for cooling the dried and heated air, said refrigeration system including a compressor driven by an internal combustion engine, means for utilizing heat ejected by the internal combustion engine for reactivating the dehumidifying material, and means responsive to a condition of the refrigerant in said evaporator which varies upon change in load on the evaporator for varying the speed of said internal combustion engine.

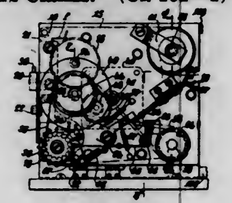
2,284,915
HEAT EXCHANGE APPARATUS
Ralph K. Miller, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application July 24, 1940, Serial No. 347,341
4 Claims. (Cl. 257—241)

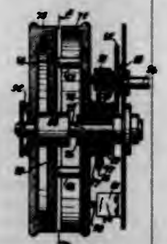


1. Heat transfer apparatus including a pri-

mary heat transfer unit, means forming a secondary circuit unit, one of said units being provided with separated bowed webs having convex surfaces at each end of the bowed portion, and separate fastening means at each of said bowed portions for holding said convex surfaces firmly in contact with the other unit.

2,284,916
PROGRAM SELECTOR
Lloyd P. Morris, Chicago, Ill.
Application February 6, 1939, Serial No. 254,898
12 Claims. (Cl. 161—1)

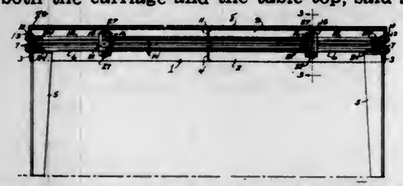




5. A program selector, comprising a sprocket perforated film having successive broadcast period date designations thereon and transversely spaced station selecting control openings correlated therewith, a feed sprocket engaged with said film, station selecting control elements spaced to register with said control openings, a time clock, a broadcast period cam actuated from said time clock, an intermittently operated actuator for said feed sprocket controlled by said broadcast period cam, an indicator dial associated wth said cam, said dial and cam adjustable in respect to said time clock, means for adjustably setting said film in respect to said time clock and broadcast period cam and means for delaying the control effect of said preceding mechanism for different selected periods of time, including coaxial members, one driven to indicate actual time and the other adjustable forwardly to a fixed point indicating an advanced period of time and means automatically operable to couple said second member for rotation with the first member when said first member reaches the time period to which the second member has been set.

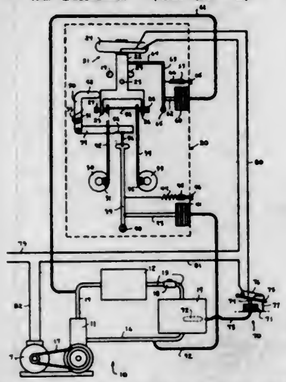
2,284,917
CARRIAGE TOP TABLE
Manville R. Nelson, Malta, Mont.
Application August 22, 1939, Serial No. 291,423
4 Claims. (Cl. 311—1)

1. In a carriage top table, a rectangular, supporting underframe having parallel track rails extending substantially the length thereof, a carriage having rollers at its opposite ends supported and rollable on said track rails, an elongated table top having longitudinal guide rails on its underside supported to travel on the carriage rollers whereby the movement of the table top in either direction effects a simultaneous movement of the carriage in the same direction but to a distance half that the table top travels, and cushioned stop means for limiting the travel of both the carriage and the table top, said stop



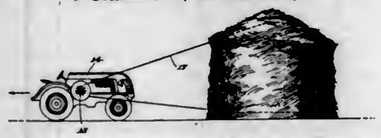
means comprising spring elements coiled about the respective track and guide rails contiguous to the opposite ends of the underframe and the table top.

2,284,918
CONTROL FOR REFRIGERATING SYSTEMS
Alwin B. Newton, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application July 12, 1940, Serial No. 345,252
21 Claims. (Cl. 62—4)



1. In apparatus of the character described, in combination, switch mechanism, means for producing a switch actuating force adapted to be increased and decreased, a device arranged to cause said force to vary, said switch mechanism controlling the operation of said device, the force varying in one direction when the device is in operation and in the opposite direction when the device is not in operation, said switch mechanism being arranged to start the device when the force is at one value and to stop the device at a relatively different value of the force, additional automatic means for stopping the device, and means for operating said switching mechanism to stopping position in response to the change in force in said opposite direction resulting from stopping of the device by said automatic means.

2,284,919
HAYSTACK SAW
Jay P. Nielson, San Diego, Calif.
Application March 26, 1941, Serial No. 385,382
5 Claims. (Cl. 146—70)



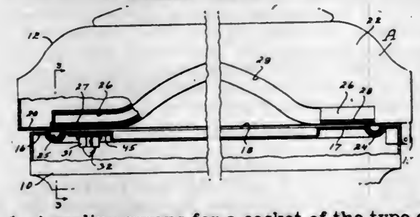
1. A haystack saw comprising a pulley, means for rotating the pulley, said pulley having rims on the ends and having a drum forming a traction surface, a band saw formed of a number of strands of barbed wire twisted together adapted to be looped around a haystack in a vertical plane, one or more convolutions of the band saw being adapted to be wound upon the drum of the pulley, means connecting the ends of the band saw together to form an endless loop after application to a haystack, and means for moving the pulley away from the haystack to constrict the vertical diameter of the loop during the cutting operation.

2,284,920
BASEBALL GLOVE
Elmer Nolte, St. Louis, Mo., and Harry B. Latina, East St. Louis, Ill., assignors to Rawlings Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application April 27, 1940, Serial No. 331,924
8 Claims. (Cl. 2—19)



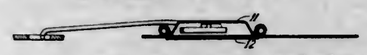
1. A baseball glove provided with a curved heel portion disposed at the inner end of the palm portion of the glove, said heel portion comprising padding material enclosed in a casing, and an adjusting lacing combined with said casing for varying the cross-sectional shape and/or dimensions of said heel portion, for the purpose described.

2,284,921
CASKET SEALING AND LOCKING MEANS
Robert B. Purkiss, Batesville, Ind., assignor to The Batesville Casket Company, Batesville, Ind., a corporation of Indiana
Application August 7, 1940, Serial No. 351,692
4 Claims. (Cl. 27—17)



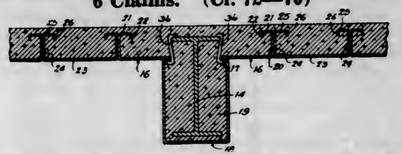
1. A sealing means for a casket of the type employed independently movable top sections, said sections having their inner ends disposed in substantial abutment; comprising, a sealing gasket disposed entirely around the margin of the body of the casket and adapted to be abutted by the margin of the top sections when the top sections are closed, a transverse gasket connected to the inner end of one of said top sections, said transverse gasket having its ends terminating within the width of said marginal sealing gasket and therefore overlying said marginal sealing gasket transversely, said transverse gasket adapted, upon closing of the top sections upon the body of the casket and in combination with the marginal gasket, to afford a complete seal between the top sections.

2,284,922
COMBINATION TAG AND SEAL
Mark Rubinoff, New York, N. Y.
Application July 22, 1940, Serial No. 346,873
3 Claims. (Cl. 40—21)



2. A device of the character described comprising a sheet and a seal permanently attached thereto, said seal comprising a disk recessed to form a relatively shallow chamber having at least one opening in its wall adapted for the insertion of a fastening device therethrough, said disk abutting directly against one of the surfaces of said sheet, the marginal portion of said disk being curled to form a partly open peripheral beaded chamber, and a locking disk therefor, abutting against the opposite surface of said sheet, the latter disk having prongs bent at right angles to the body thereof, said prongs passing through said sheet and extending in curled form within said beaded chamber, interlocking therewith, thereby providing a positively non-releasable connection between said two disks and between the seal jointly formed by them, and said sheet.

2,284,923
REINFORCED CONCRETE BUILDING CONSTRUCTION
Harvey W. Schick, Chicago, Ill.
Application April 12, 1941, Serial No. 388,225
6 Claims. (Cl. 72—70)



4. In reinforced concrete building construction, the combination of a wall, a girder partially embedded within said wall and having flanges projecting outwardly from the wall, a girder shell at least partially surrounding the lower portion of the girder and having a base and side wall in spaced relation to the girder the side wall terminating below the top of the girder, means suspending the girder shell from the girder, a marginal pan extending in parallel relation to the girder shell and having the inner edge of its base resting thereon and supported thereby and having a side wall along the outer margin of the base, and a plastic filler extending continuously within the pan and into the girder shell and serving to embed the exposed portion of the girder.

2,284,924
TOBACCO-PIPE REAMER
Paul A. Shoudy, Seattle, Wash., assignor to Kirsten Pipe Company, Seattle, Wash., a corporation of Washington
Application November 18, 1940, Serial No. 366,040
4 Claims. (Cl. 131—246)

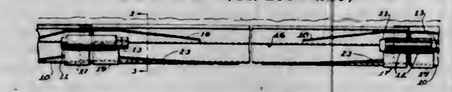
1. A reamer for a tobacco-pipe comprising a sheet metal body of a shape peripherally corresponding to the chamber of a pipe bowl and hav-

ing a longitudinal bore and a longitudinal slot, and with the ends of said body which lie at opposite sides of said slot extending inwardly from a true concentric and terminating in spaced re-



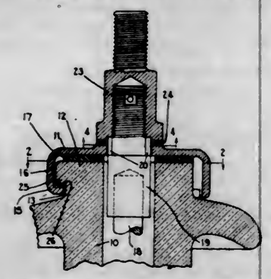
lation to define a clear throat therebetween, the terminal edge of one of said ends occupying the line of a steep helix, and a reaming lip extending outwardly from said terminal edge.

2,284,925
SHAKER CONVEYER TROUGH CONNECTING MEANS
William W. Sloane, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application February 5, 1941, Serial No. 377,463
4 Claims. (Cl. 198—220)



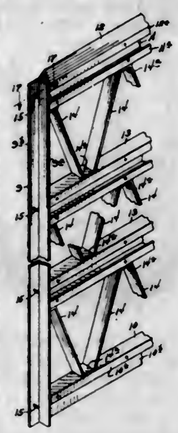
1. In a shaker conveyer, a plurality of conveyer trough sections, means for connecting said trough sections together in such a manner as to prevent buckling or breaking thereof during reciprocation of the conveyer including reinforcing straps extending transversely across the bottoms and upwardly along opposite sides of said trough sections adjacent opposite ends thereof and terminating into connecting means at their ends, said connecting means of adjacent ends of said trough sections being adapted to abut and connecting members engaging said abutting connecting means for connecting said trough sections together, and said connecting means of each trough section being intersected by a plane parallel to the bottom of the trough section and extending substantially through the center of force of said trough section, and longitudinally extending stiffening straps extending from said reinforcing straps inwardly towards the center of said trough sections and with said reinforcing straps forming columns for stiffening the bottoms of said trough sections adjacent their ends.

2,284,926
TERMINAL FOR BUSHING INSULATORS
William A. Smith, Akron, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application December 30, 1939, Serial No. 311,795
8 Claims. (Cl. 174—167)



1. The combination with a bushing insulator having an opening therethrough, of a separable cap for closing said opening at one end of said insulator, said insulator having a shoulder thereon encircling said opening and registering with a portion of said cap, a resilient gasket interposed between said cap and shoulder and means rotatable relative to said insulator and about the axis thereof to axially move said cap and said insulator such that said gasket is compressed between said cap and shoulder for locking said cap on said insulator and for holding said gasket in compression to provide a tight seal for the opening in said bushing insulator.

2,284,927
UNITARY STRUCTURAL SYSTEM
Roy L. Speed, San Francisco, Calif.
Application November 4, 1940, Serial No. 364,310
4 Claims. (Cl. 189—34)

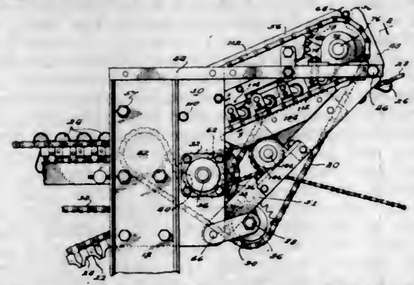


3. A panel unit for building construction, comprising a rectangular frame composed of L-shaped longitudinal side members, a transverse member rigidly connecting said side members of the frame at one end, a channeled transverse member rigidly connecting said side members of the frame at the opposite ends thereof, said channeled transverse member having its outermost flange portion formed V-shaped in cross section to provide a sharp ridge extending the width of the frame between the side members, transverse members rigidly cross connecting side members between the transverse end members, and trussing elements disposed between and rigidly connecting the next adjacent transverse end and intermediate members of the frame.

2,284,928
CONFECTION HANDLING MECHANISM
Carl W. Spohr, Chicago, Ill., assignor to Saf-T-Pop Corporation, Dubuque, Iowa, a corporation of Delaware
Application January 25, 1941, Serial No. 375,953
8 Claims. (Cl. 198—20)

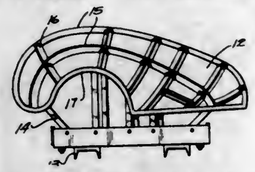
1. A device for transferring lollipops or similar objects having looped handles from their molds to a conveyor having hangers while both the molds and the conveyor are in motion, comprising: A plurality of transferring members; means to move said members at a substantially uniform speed in a circuit between a point adjacent said molds and a point adjacent said conveyor, said

members including elements for gripping lollipop heads to remove the lollipops from their molds;



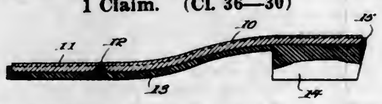
and means to hook the loops formed by the lollipop handles over the hangers on said conveyor.

2,284,929
METHOD OF MAKING DIE SPOTTING DEVICES
Alexander P. Stewart, Detroit, Mich.
Application October 2, 1940, Serial No. 359,413
8 Claims. (Cl. 22—158)



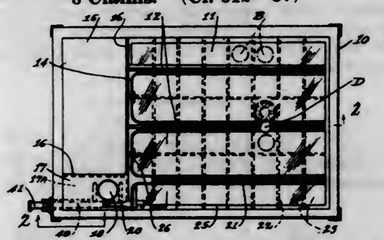
1. The method of making a die spotting device corresponding to a pattern consisting in mounting on the contact surface of the pattern a plurality of ribs in spaced relation to each other, covering said ribs and filling the spaces between the same with a hardening material while in softened condition to provide a mask over said pattern, removing said ribs from the mask to provide channels on the face thereof and pouring into said channels while said mask is positioned on the pattern, a hardening material in softened condition.

2,284,930
FOOTWEAR
William P. Stoker, Beverly Hills, Calif.
Application December 6, 1940, Serial No. 368,929
1 Claim. (Cl. 36—30)



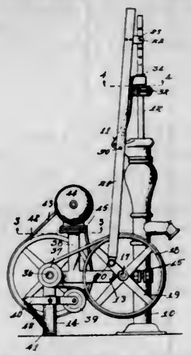
In footwear, a rigid sole including an integral heel, shank, ball section, and a toe section spaced from the ball section, a rubber sole below the rigid sole, the rigid sole being recessed into the rubber sole inside the outer edge of the rubber sole to provide a securing flange all around the edge of the rigid sole for the attachment of a shoe upper, the confronting edges of the toe section and ball section being beveled to provide a triangular space having its base in the plane of the bottom faces of the ball section and the toe section, and a rubber bond of triangular cross section in said space projecting above the top face of the bottom sole and permitting the toe section to yield independently of the ball section during movements of the wearer's foot in taking a step.

2,284,931
VENDING MACHINE
Wilson Marks Stewart, Ottawa, Ontario, Canada, assignor to Hydro-Silica Corporation, Gasport, N. Y.
Application August 22, 1939, Serial No. 291,452
In Canada May 10, 1939
8 Claims. (Cl. 312—87)



1. In a vending machine, a casing forming a compartment adapted to store bottles, a top closure for said casing having a slot and an opening through which the bottles may be withdrawn one by one, a bottle lifting device operable from outside of said casing by a portion projecting through said slot, adapted to grasp a bottle and bodily slidable in said slot to bring the bottle to adjacent said opening to be withdrawn therethrough, and a coin-controlled member formed to receive said portion, movable in one direction to a position to receive said portion and in an opposite direction to bring the bottle to adjacent said opening.

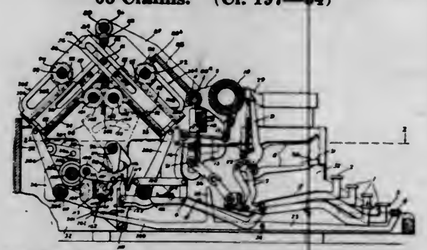
2,284,932
ELECTRICALLY OPERATED PUMP JACK
William B. Thiemann, Albert City, Iowa
Application January 15, 1940, Serial No. 313,907
3 Claims. (Cl. 74—44)



1. In combination, a pump stalk having at its upper end a pair of upwardly extending guide supporting brackets, a horizontal supporting bar, a clamp at one end of said bar for detachably securing said bar to said pump stalk, a leg supporting the other end of said supporting bar, a transverse shaft at each end of said bar, flexible means for operatively connecting said shaft, an upright pedestal carried by said supporting bar intermediate its ends, a motor platform carried by said pedestal, flexible means transmitting power from said motor to one of said shafts, a pair of lift bars, means for operatively connecting said lift bar to the other one of said shafts to impart reciprocating motion thereto, an upright post on each side of said leg, means carried by the upper end of each of said posts for tightening the first said flexible means, means for

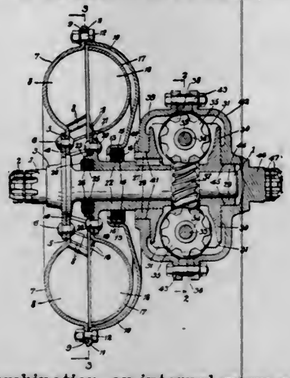
operatively connecting said lift bars to the upper end of the pump rod carried by said stalk to operate the horizontal clamping bars, means adjustably clamping said bars to said brackets, a pair of laterally projecting and spaced bracket members adjustably secured to one of said clamping bars to move toward and from each other, a roller between the outer ends of said bracket members, and means adjustably mounting said roller in said shaft members to move toward and from said bars substantially as described, for the purpose stated.

2,284,933
TYPING APPARATUS
Ransom H. Turner, Great Neck, N. Y.
Application February 8, 1940, Serial No. 317,913
68 Claims. (Cl. 197—84)



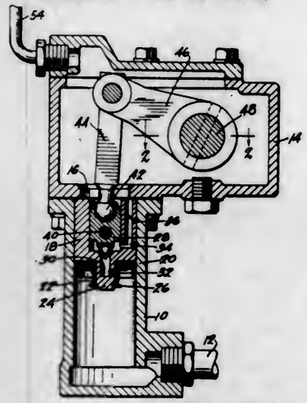
50. Mechanism to control the travel of a carriage for type-character spacing, comprising a series of stop elements mounted for spacing them varying distances apart in the series, and a series of spacing wedges operable upon said stop elements respectively for setting them and individually advanceable varying degrees to set said stop elements varying distances apart in accordance with setwise spacing appropriate to different type characters, to thereby form an escapement rack of said stop elements for cooperation with escapement means to control travel of the carriage.

2,284,934
SHAFT COUPLING
Sydney C. Watson, Chicago, Ill., assignor to Tor-Vel Associates, having as trustees Sydney C. Watson and Alvin J. Parcelle
Application December 30, 1939, Serial No. 311,796
3 Claims. (Cl. 74—189.5)



1. In combination, an internal worm gear drive and fluid coupling therefor, a drive shaft, an impeller fixed on said shaft, a sleeve rotatable about said shaft, a runner fixed on said sleeve and opposed to said impeller, a driven shaft, a gear housing fixed in relation to said driven shaft and surrounding the end of said drive shaft and the end of said sleeve adjacent said driven shaft, an internal worm gear fixed in relation to said gear housing, a carrier fixed to said sleeve within said gear housing and surrounding said drive shaft, a plurality of worms positioned for rotation in said carrier and in mesh with said internal worm gear, and an external worm gear fixed on said drive shaft and in mesh with said worms, whereby, when the load on said driven shaft does not exceed the turning effort on said runner, said external worm gear drives said driven shaft directly, in the same direction as the driving shaft, through said worms, internal worm gear and gear housing, and when the load on the driven shaft exceeds said turning effort, a reduced drive is effected.

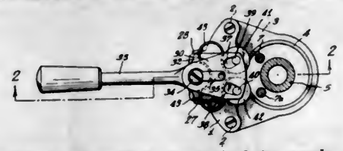
2,284,935
MASTER CYLINDER
John W. White, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application June 29, 1939, Serial No. 281,830
2 Claims. (Cl. 60—54.6)



2. A master cylinder device comprising a cylinder having mounted therein a piston having a recess, the said piston also having a passage connecting the recess to one end of the piston and a second passage connecting the recess to the other end of the piston, a valve member arranged to close one of said passages, said valve member including a piston slidingly engaging the walls of the recess, applying means for operating the valve member to actuate the first named piston, and a lost motion connection between the valve member and the first named piston such that on the release stroke the applying means draws the said piston backwardly in the cylinder with the passages in the piston open.

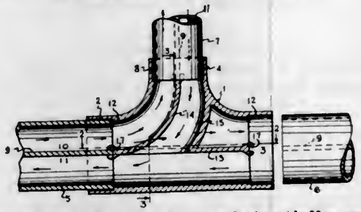
2,284,936
DIRECTION INDICATOR MEANS
August E. Wilshusen, Ypsilanti, Mich.
Application November 28, 1940, Serial No. 367,620
2 Claims. (Cl. 200—59)

1. In combination, a vehicle steering column, a shaft reversely rotatable in said column incident to steering movements of the vehicle, a pair of spaced movable elements connected to said shaft and moved thereby in a circular orbit, a bracket secured to said column and having spaced electrical terminals carried thereby, a switch member also having spaced electrical terminals carried thereby pivotally mounted on said bracket and movable about an axis spaced from the axis of said orbit in reverse directions from a neutral to circuit selecting positions with the terminals of said bracket, said switch member comprising a triangular member pivotally mounted at one corner and having slots extending inwardly from the other corners thereof, manual means for moving said switch member,



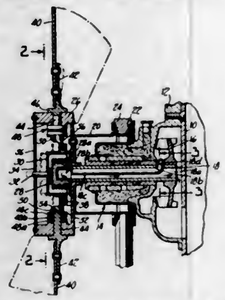
spring pressed rollers mounted in each of said slots for rotation and for sliding movement with respect to said switch member, said slots being arranged radially of said pivotal point whereby upon cocking of said switch member in either of its extreme positions said elements contact one of said rollers and urge it inwardly of said slot in passing in one direction and when returning therepast said element exerts pressure on said roller directly against one wall of said slot.

2,284,937
PIPE FITTING
Edwin J. Wood, Detroit, Mich.
Application February 17, 1941, Serial No. 379,255
12 Claims. (Cl. 285—210)



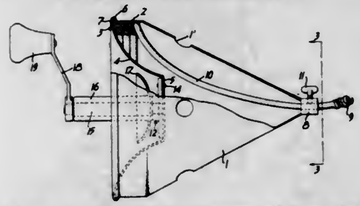
1. A pipe T having two substantially opposed openings and an opening substantially transverse to the opposed openings, and having two separate passages connecting said opposed openings, and having two separate passages respectively connecting the respective first mentioned passages with said transverse opening.

2,284,938
AIR FLOW CONTROL
Roy Albert Bryan Allen, Jr., Dallas, Tex.
Application July 22, 1940, Serial No. 346,707
9 Claims. (Cl. 123—171)



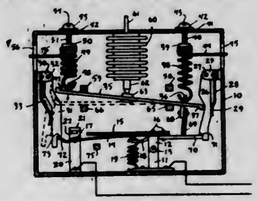
6. In an engine cooling system, a hollow shaft, a fan and a water pump mounted on the ends of said shaft for unitary rotation therewith, a thermostat in said fan at the center thereof adjacent said hollow shaft, means connecting the thermostat with the blades of said fan for varying their pitch upon variations in the temperature of the engine cooling water, the bore of said hollow shaft being partitioned into channels for the flow and counter-flow of water from the neighborhood of the water pump for producing flow and counter-flow of the cooling water through said channels.

2,284,939
DRAIN CLEANER
Remi C. Asnard, San Francisco, Calif.
Application June 29, 1940, Serial No. 343,201
2 Claims. (Cl. 15—104.30)



1. In a portable drain cleaner of the character described including a snake coiled within the enlarged end of a hollow container the walls of which container are formed by a pair of generally frusto-conical sheet members coaxially disposed one within the other with their enlarged ends secured together; the smaller end of the outer member of said pair being open and terminating outwardly beyond the smaller end of the inner member of said pair for withdrawal of the snake from the coil thereof and from said container axially of said coil through said open end of said outer member; an elongated handle carried by the smaller end of the inner member of said pair having a hand grasping portion encircled and enclosed by the enlarged end portion of said inner member; the enlarged end of said inner member being open for admission of one hand of an operator for grasping said hand grasping portion, and means on said container for manually rotating the same about the common axis of said members; said means projecting from the enlarged end of said container and spaced from said handle and being arranged and adapted for manual actuation by the other hand of said operator to continuously rotate said container in either direction on its axis while said container and coil therein are supported by the first mentioned hand grasping said hand grasping portion of said handle.

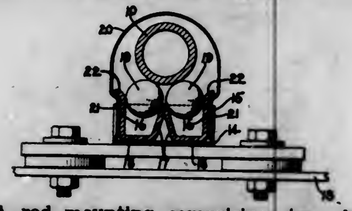
2,284,940
SNAP ACTION DEVICE
Albert E. Baak, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application August 4, 1939, Serial No. 288,255
21 Claims. (Cl. 200—83)



1. A snap action device comprising in combi-

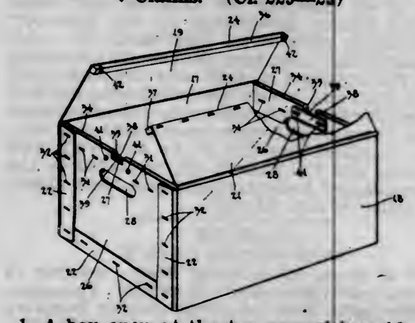
nation, a control member, a first means for biasing said control member for movement in one direction, a first holding device preventing such movement, a second means for biasing said control member for movement in the other direction, a second holding device for preventing such movement, and condition responsive means for alternately tensioning said biasing means and releasing said holding devices.

2,284,941
ROD MOUNTING
Alvin L. Bergsma, Grand Rapids, Mich., assignor to J. C. Miller Company, Grand Rapids, Mich., a corporation of Michigan
Application December 2, 1940, Serial No. 368,201
2 Claims. (Cl. 308—6)



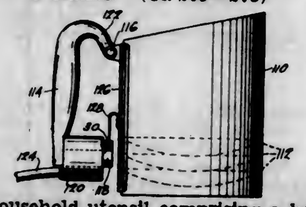
1. A rod mounting comprising, two channel members mounted side by side, a ball in each channel spaced upwardly from the bottom thereof mounted for rolling movement lengthwise thereof, the bearing contact of each ball against the outer leg of each channel member being at a point above the bearing contact thereof against the inner leg, and a rod mounted for longitudinal reciprocating movement on both of said balls.

2,284,942
BOX
Paul F. Boeye, St. Paul, Minn., assignor to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application February 16, 1940, Serial No. 319,265
7 Claims. (Cl. 229—23)



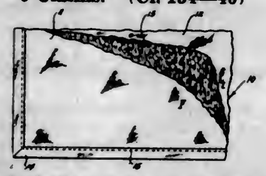
1. A box open at the top comprising side and end walls and a bottom connected therewith, a cover for the box comprising flaps hinged to two opposite walls of the box and extending substantially in a common plane when in closing position to effect a closure for the box, cleats secured to said cover flaps upon the under sides thereof and situated at the meeting edges of said cover flaps, the other walls of the box having recesses formed therein for the reception of the ends of the cleats, said cleats having transversely extending grooves therein at the locality of said recesses, and means attached to said second named walls at the locality of said recesses and having transversely extending portions for engagement with said grooves to restrain movement of the cleats with respect to the walls of the box and with respect to one another in the direction of their length.

2,284,943
ELECTRIC SIFTER
Kemper P. Brace, South Bend, and Hubert J. Herzog, Mishawaka, Ind.
Application February 28, 1940, Serial No. 321,198
5 Claims. (Cl. 209—275)



1. A household utensil comprising a handle, a container movably mounted on the handle and having its bottom formed as a sieve, a coil secured to said handle, said handle including parts forming part of a magnetic circuit about the coil, and an armature rigidly secured to one side of the container and lying closely adjacent thereto and extending from a point adjacent the connection of the container to the handle to a point adjacent the coil and substantially completing the magnetic circuit.

2,284,944
SURGICAL SHEET
Edward F. Bruning, Santa Ana, Calif.
Application December 24, 1938, Serial No. 247,566
9 Claims. (Cl. 154—46)



1. A surgical sheet of the character described, comprising a thin layer of smooth, flexible paper that has no appreciable open porosity and which is hygroscopic and pervious to moisture without disintegration, and a layer of a relatively stiff and less moisture pervious paper applied to the first mentioned layer, and means joining said layers together but leaving their adjacent surfaces unattached over the greater portion of the sheet area.

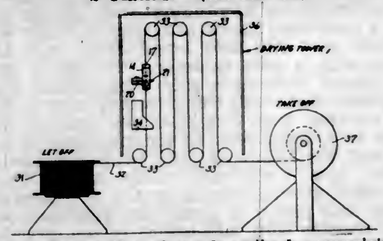
2,284,945
CABLE CONNECTOR
Homer P. Chandler, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application May 25, 1940, Serial No. 337,221
3 Claims. (Cl. 173—328)

3. In a connector for an electric cable of one or more conductors comprising a pair of connector parts, each part comprising a one-piece recessed casing of elastic, flexible and deformable material provided with a sleeve at one end, a passage through the sleeve opening into the recess for the entrance of the cable end into the recess, each connector part provided with one or more contacts cooperating with contacts on the other connector part and to which contact or contacts the conductor of the cable is attached, the combination with the said sleeves of means to clamp the sleeves onto the cable to anchor the sleeves to their respective cable to resist longitudinal movement of the cable relative to its sleeve and to hold the connector parts from separating, the said means comprising an adjustable clamp encircling



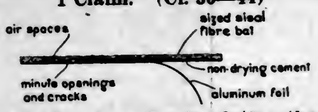
each sleeve whereby the sleeve may be drawn into engagement with its cable to anchor the sleeve to the cable and flexible means connecting the clamps, the means connecting the flexible means to one clamp arranged to draw the flexible means taut to hold the connector parts in connected relation and under compressive stress.

2,284,946
FORM VARNISH DIE
Mont Morell Chaney, Fort Wayne, Ind., assignor to Phelps Dodge Copper Products Corporation, Dover, Del., a corporation of Delaware
Application April 16, 1940, Serial No. 329,845
2 Claims. (Cl. 91—53)



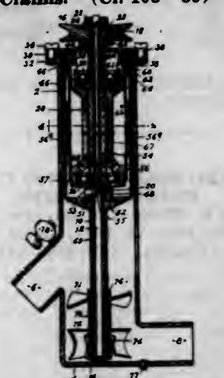
1. A die of the class described comprising in combination, a base provided with two parallel bezel sides, each having a raised portion extending beyond the bezel, two side plates each having one end set at an angle to the main portion adapted to form a crown and provided on the opposite end with a slot adapted to snugly fit over the raised portion and held in position by peening whereby pressure is exerted between the ends at the crown.

2,284,947
HEAT INSULATING INSOLE
James J. Clifford, Reading, Mass., assignor to Stedfast Rubber Company, Inc., Mattapan, Mass., a corporation of Massachusetts
Application October 26, 1940, Serial No. 362,974
1 Claim. (Cl. 36—44)



An insole for shoes for insulating the foot of the wearer against heat to which the shoe may be subjected through the bottom and for securing ventilation, consisting of a bottom layer of aluminum foil, a top layer of a bat of coarse resilient fibre typified by sisal fibre with the said bat heavily sized and containing an infinite number of air spaces, and a non-drying synthetic rubber cement securing the said layers together, the said aluminum foil presenting a multiplicity of minute openings and cracks therethrough, the air spaces of the fibre bat together with the openings and cracks of the foil acting to secure ventilation and the air spaces of the bat together with the heat reflecting surface of the foil acting to insulate the foot of the wearer against the said heat.

2,284,948
ROTARY PUMP
Charles A. Combs, Kansas City, Mo.
Application September 15, 1941, Serial No. 410,915
8 Claims. (Cl. 103—89)

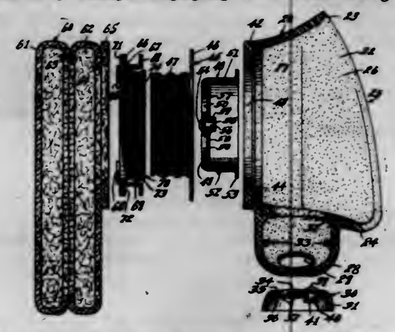


1. A pump comprising an upright housing closed at its lower end and open at its upper end, said housing having an inlet and an outlet at its lower portion and a peripheral flange surrounding its upper end, a rotary impeller located in the lower portion of said housing, driving means for the impeller extending above the housing and including a pulley provided at its under portion with an annular flange, bearing means for the upper portion of said driving means provided with a peripheral flange which rests upon the housing flange and partially closes the open end of the housing, a dust cap resting upon the flange of the bearing means and provided with a central opening through which the upper portion of the driving means extends, said central opening being surrounded by an upturned flange which projects into the depending flange of the pulley, and threaded means for removably holding the dust cap and the flange of the bearing means in assembly with the flange of the housing.

2,284,949
RESPIRATOR
Harvey S. Cover, South Bend, Ind.
Application April 8, 1940, Serial No. 328,450
3 Claims. (Cl. 128—148)

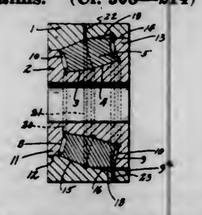
2. In a respirator, a body portion having a front opening and an inwardly extending flange around said opening, a tubular threaded member extending through said opening and having a flange seated against the inner face of said body flange, an inwardly opening intake valve assembly mounted in said threaded member, a filter element having an opening, a ring fitting in the edge of said opening and having a flange engaging the inner face of the filter element adjacent the said opening therein, a second tubular member in threaded engagement with the first said tubular member and having a flange abut-

ting the flange on said ring, and means on the said ring flange engaging over said flange on



said second tubular member to secure the ring and filter thereto.

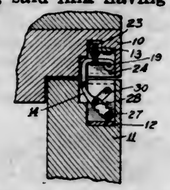
2,284,950
ENCLOSED SELF-LOCKING CAGELESS ROLLER BEARING
Ollie L. Dirrig, Los Angeles, Calif.
Application June 18, 1941, Serial No. 398,612
5 Claims. (Cl. 308—214)



1. In a high-speed bearing, the combination of a plurality of freely movable unconnected rollers, each of said rollers having its maximum diameter at an intermediate point on its length, and tapering on a conical taper toward each end from said intermediate point, the axes of said rollers disposed at an angle to the axis of the bearing, an inner bearing member having two conical faces, the elements of one of said conical faces forming a dihedral angle of revolution about the axis of the bearing, to fit the sides of said rollers, and an outer annular bearing member, having conical faces, the elements of one of said last-named conical faces forming a dihedral angle of revolution about the axis of the bearing, to fit against the rollers on their outer sides, said dihedral angles of revolution operating to maintain the alignment of said rollers; said rollers having bearing faces at their outer ends, and said outer bearing member having a conical face engaging the same and capable of resisting end thrust of the rollers under action of the centrifugal force acting upon the rollers, and enabling the bearing to take end thrust exerted toward said last-named conical face.

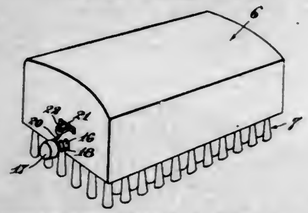
2,284,951
HINGE
John Peter Doman, Los Angeles, Calif.
Application March 26, 1940, Serial No. 325,995
2 Claims. (Cl. 16—164)

1. A hinge as described, comprising a pair of bracket members each having a U-shaped portion, a substantially U-shaped link pivotally secured at its end portions to said U-shaped portions of said brackets, the opposite sides of one of said bracket U portions each having a V-shaped slot, said link having an end portion



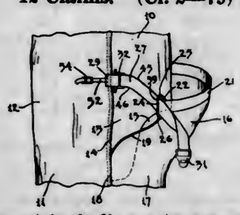
provided with a pair of bearing pins slidable in said slots.

2,284,952
DISPENSER
Harold Palmer Duey, Los Angeles, Calif.
Application November 13, 1939, Serial No. 304,070
1 Claim. (Cl. 221—16)



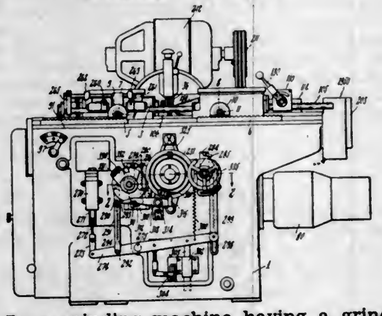
A dispenser embodying a hollow elongated member having a longitudinal wall and an end wall; a reciprocal piston extending through said end wall and into said longitudinal wall and formed with a port extending through a portion thereof housed in said longitudinal wall, said longitudinal wall being formed with a piston receiving bore longitudinally thereof and having an opening between the inner end of said bore and the hollow interior of the elongated member, also a discharge orifice across which said piston extends, spring means for normally holding said piston in a position with said port out of register with said orifice in the direction of the length of said piston, and a head on said piston arranged in outward spaced relation to said end wall adapted to be depressed to advance said piston longitudinally in opposition to said spring means to a position to register the port therein with the orifice in said longitudinal wall.

2,284,953
DROP SEAT GARMENT
Erick O. Fellroth, Minneapolis, Minn., assignor to Martin Brothers Company, Minneapolis, Minn., a corporation of Minnesota
Application April 28, 1939, Serial No. 270,567
12 Claims. (Cl. 2—79)



1. A garment including a trouser portion having a rear opening therein, a drop seat connected to the trouser portion and covering said opening, said drop seat being free at the upper end and terminating substantially at the waistline of the garment, loops at the lateral portions of the drop seat situated substantially at the waistline of the drop seat, said loops having transversely extending slots with bights at the upper ends of the same, belt straps attached to the garment substantially at the waistline, one on each side of the garment, said straps being each threaded through the slot of a loop, the upper edges of the straps being adapted to be engaged by said bights of the loops, said straps being adapted to be moved together forwardly to bring the drop seat into closing position, fastening means at the free ends of the belt straps for connecting the same together, and guard members, one on each of the belt straps, said guard members each having rigid parts adapted to extend through the slots of the loops when the drop seat is in closing position, said parts having edges following along the upper edges of the belt straps and adapted to engage the bights of the loops, said guard members having other parts for holding the first named parts in proper spaced relation, said guards transferring the lateral pull from the drop seat to the belt straps in a manner to prevent roping of the belt straps.

2,284,954
GRINDING WHEEL AND TRUING MECHANISM FEED
Ralph E. Flanders, Springfield, Vt., assignor to Jones & Lamson Machine Company, Springfield, Vt., a corporation of Vermont
Original application August 17, 1940, Serial No. 353,050. Divided and this application June 12, 1941, Serial No. 397,710
6 Claims. (Cl. 51—2)



1. In a grinding machine having a grinding wheel, wheel truing mechanism, a work support, means for feeding said grinding wheel relative to said work support, and means for feeding said wheel truing mechanism toward said wheel, means for actuating said wheel feeding means having a yielding operative connection to said truing mechanism feeding means, a latch for preventing actuation of said mechanism feeding means by the actuation of said wheel feeding actuating means, and means operative when said wheel feeding means reaches a predetermined wheel feed position for releasing said latch to permit subsequent actuation of said wheel feeding actuating means to actuate said mechanism feeding means.

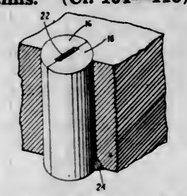
2,284,955
LIGHTING FIXTURE
John G. Francis, Chicago, Ill., assignor to Chamberlain, Inc., Chicago, Ill., a corporation of Illinois
Application August 19, 1939, Serial No. 290,940
1 Claim. (Cl. 248—337)

An extensible lighting fixture comprising a pair of hollow rods adapted to telescope one within the other to provide for adjusting the length of the fixture and effect shortening thereof to facilitate shipping and storage, means for locking the rods in adjusted positions, a sleeve threadedly secured to an end of the outer of said rods, said sleeve having a concentric threaded opening therein, a threaded stem threadably received in said threaded opening and adapted to adjustably extend into the hollow interior of said outer rod, a lamp socket connected to said



threaded stem for adjustment therewith relative to said sleeve and the end of said outer rod, said stem and the hollow interior of the inner of said telescoping rods being of a size providing for entry of the stem into the hollow interior of said inner rod when the latter is telescoped a predetermined distance into the outer rod whereby said rods and said stem are telescopically adjustable to a relatively short collapsed length, and means on said sleeve for supporting a canopy.

2,284,956
DIE INSERT
Frank P. Gardner, Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York
Application December 1, 1939, Serial No. 307,054
6 Claims. (Cl. 164—118)



1. A die insert comprising two semi-cylindrical halves with integrally formed outwardly projecting keys at their lower ends to insure proper orientation of the insert in a die despite the cylindrical exterior of the insert.

2,284,957
THEATER SEAT BACK
Stanley James Gedris, Grand Rapids, Mich., assignor to Ideal Seating Company, Grand Rapids, Mich., a corporation of Michigan
Application January 8, 1940, Serial No. 312,890
6 Claims. (Cl. 155—184)

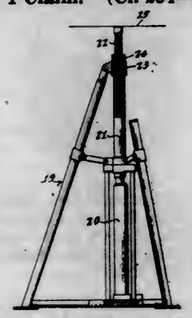
1. A chair back comprising, a back plate of metal, a second plate of metal at the front side of and spaced from the back plate, having rearwardly turned webs terminating in outwardly ex-

tending flanges at its sides and ends, said flanges bearing against the back plate and secured thereto, said second plate being longitudinally recessed toward said back plate and engaging thereagainst at the bottom of said recessed portions, said second plate having a plurality of openings therethrough, an upholdstering unit comprising a third plate of metal having rearwardly turned flanges therearound at its edges, padding located against the front side of said third plate, a fabric covering over said padding



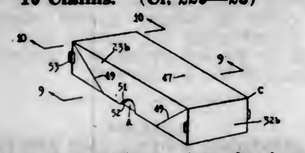
extending around the inner edges of the flanges of the third plate and connected therewith, a plurality of tongues struck rearwardly from said third plate adapted to pass through said openings in the second plate to mount the upholstering unit upon said second plate, and bolts passing upwardly through the lower end flange of said third plate and through the lower end web of the second plate and threading through nuts located above said lower end web of the second plate, as specified.

2,284,958
SELF-HOLDING JACK
Edward P. Grime, Huntington Park, Calif.
Application November 2, 1940, Serial No. 364,011
1 Claim. (Cl. 254—1)



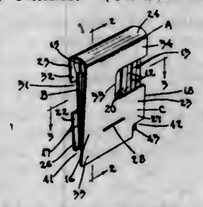
In a power-jack to be used as a shore for supporting an airplane wing, the combination of a frame to be set under the wing, a fluid-operated cylinder and plunger located at the lower part of the frame, said plunger having a threaded extension extending above the frame, a plunger guide for the threaded extension secured to said frame, said parts cooperating to enable the plunger to be advanced by fluid pressure so that the upper end of the threaded extension is substantially in contact with the underside of the airplane wing, and a nut carried on the threaded extension operating to seat on the upper end of said frame adjacent the upper end of said plunger guide and capable of being rotated to raise the upper end of the threaded extension gradually and continuously to bring the same into firm contact with the underside of the airplane wing and to maintain the threaded extension in position regardless of leakage of fluid from the cylinder below the plunger.

2,284,959
CARTON
Reynolds Guyer and Russell J. Hennessey, St. Paul, Minn., assignors to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application November 12, 1938, Serial No. 240,021
10 Claims. (Cl. 229—23)



1. A carton comprising a tray having a bottom and lateral walls hingedly connected therewith and free from one another at their adjoining edges to permit swinging of the walls from collapsed to erected position, a hoop encircling said lateral walls and holding the same in erected position, said hoop being readily removable from said tray to free said lateral walls to permit of swinging of the same to collapsed position to expose the contents of the tray, a cover adapted to fit over said hoop and tray and covering the contents of the tray, and attaching means acting between said cover and hoop for attaching the hoop to the cover to cause simultaneous removal of the hoop and cover from the tray.

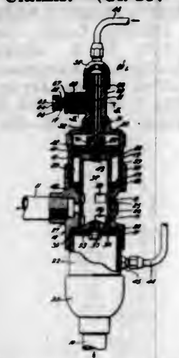
2,284,960
MATCH BOOK
Reynolds Guyer, St. Paul, Minn., assignor to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application July 31, 1939, Serial No. 287,481
7 Claims. (Cl. 206—29)



1. A match book comprising a cover constructed from a single strip of material having lateral edges and folded transversely of said edges to form a reverse side wall, an obverse side wall and an end portion intermediate the side walls, a block of matches constructed from a plurality of overlying sheets of paper slit longitudinally to provide a number of stems having heads at their ends and stubs from which the stems issue, said block of matches being disposed between the side walls of the cover with the heads adjacent the end portion and the stubs between the ends of the side walls, said obverse side wall having a finger notch in the same extending through one of the lateral edges thereof and inwardly toward

the center of said side wall to expose a portion of the matches, said reverse side wall having a similar notch extending through the lateral edge thereof opposite the other lateral edge of the obverse side wall to expose the remainder of the matches, and means for rigidly securing the stubs to both of the side walls.

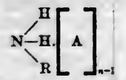
2,284,961
AUTOMATIC VALVE
Ona F. Hall and Lewis R. Davis, Pico, Calif.; said Hall assignor to Ray T. Neeley, Pico, Calif.
Application December 2, 1940, Serial No. 368,210
10 Claims. (Cl. 137—139)



1. A valve for controlling a line handling fluid under pressure comprising a body having a passage in communication with the line and having an outlet, a valve in the body for closing off the passage and urged to the closed position by the fluid pressure in the line, cylinder and piston means for opening the valve, means for supplying fluid under pressure to the cylinder and piston means to effect opening of the valve, an orifice member having a discharge orifice communicating with the cylinder of the cylinder and piston means whereby the fluid under pressure acting on the valve may force the fluid from the cylinder to effect closing of the valve, and means for controlling the orifice to govern the rate of closing of the valve comprising a part movable by the valve and extending past an end of the orifice, and screw thread means for adjusting the orifice member so that said end of the orifice may be moved toward and away from said part.

2,284,962
CELLULOSE DERIVATIVES CONTAINING SULPHUR AND NITROGEN AND PROCESS OF MAKING SAME
Robert Haller, Riehen, and Alphonse Heckendorn, Basel, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application December 22, 1939, Serial No. 310,628. In Switzerland November 9, 1938
16 Claims. (Cl. 260—218)

1. Process for the manufacture of cellulose derivatives containing sulphur and nitrogen, which comprises treating cellulose xanthate in solid form with a chlorinating agent and an aqueous solution of a nitrogenous compound of the general formula

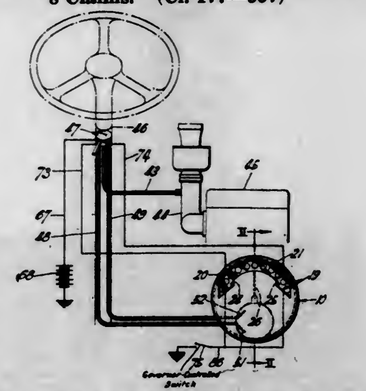


wherein R is a member of the group consisting of a hydrogen atom and an alkyl residue, A stands for an acid capable of forming a salt with



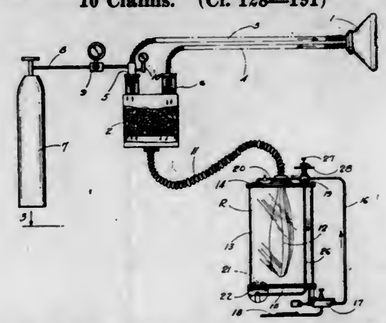
and n is a positive integer not greater than 2.

2,284,963
VEHICLE DIRECTION INDICATOR
Erwin C. Horton, Hamburg, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application August 17, 1939, Serial No. 290,649
8 Claims. (Cl. 177—337)



1. In a vehicle direction indicator, a rotatable member having a plurality of apertures therein, illuminating means behind said member and adapted to cast light rays through said apertures, means for selectively rotating said member in either direction to warn observers of an intention to turn in the indicated direction, and automatic speed-responsive means for rendering said illuminating means operative upon rotation of said rotatable member above a predetermined minimum velocity.

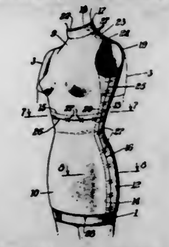
2,284,964
MECHANICAL RESPIRATOR
Frederick R. Mauts and Oris J. Smith, Cleveland Heights, Ohio, assignors to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application July 26, 1940, Serial No. 347,814
10 Claims. (Cl. 128—191)



1. In a mechanical respirator, walls defining a closed chamber, a flexible container in said chamber, a conduit leading from said flexible

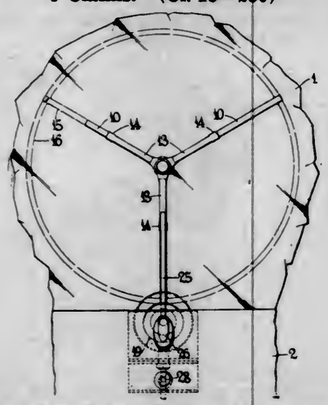
container, a face mask connected to said conduit, means for supplying air under pressure to said chamber outside of said flexible container, and independent means for intermittently connecting said chamber to the atmosphere and closing said chamber from the atmosphere.

2,284,965
PROCESS OF MAKING DRESS FORMS
Ralph F. Palmer, Montclair, N. J., and Katherine C. Selby, White Plains, N. Y., assignors to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application April 27, 1940, Serial No. 331,976
9 Claims. (Cl. 223—68)



1. In the process of making a dress-form or the like from a human model provided with a protective vest, including encasing the torso of a model in a hardened shell by applying to said vest and molding to the contours of the model a plurality of panel-sections of limp conformable sheet-material in marginally overlapped relation and having the property of hardening after application to the model, the improvement in the process which consists in separating overlapped margins of the shell thus formed to expose a portion of the protective vest from top to bottom thereof, severing said vest in the exposed portion thereof, together removing the shell and vest from the model, reassembling the separated shell-sections into their previously overlapped relation, severing sections of said shell along the overlapped margins thereof and abutting the edges of adjacent sections, and uniting the edge-abutted shell-sections.

2,284,966
WINDSHIELD CLEANER
Anton Rappl, Buffalo, and Donald N. Mussen, Williamsville, N. Y., assignors to Trico Products Corporation, Buffalo, N. Y.
Application October 17, 1939, Serial No. 299,854
9 Claims. (Cl. 15—250)



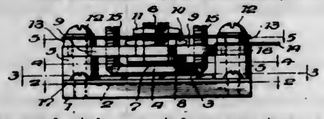
1. A window cleaner for motor vehicles of the airplane type, comprising a rotary shaft with means for journaling it, wiper means fixed on the shaft to be moved thereby in a path over the exterior glass surface, a spoked wheel also fixed on the shaft for imparting rotary movement to the same, and means for driving the wheel at its periphery, the diameter of the wheel being substantially as great as that of the path of movement of the wiper means, whereby the driving means is wholly removed from the cleaned field of vision as defined by the spoke area.

2,284,967
STAND FOR DRESS FORMS AND THE LIKE
Joseph L. Ray, Darien, Conn., and Ralph F. Palmer, Montclair, N. J., assignors to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application May 9, 1940, Serial No. 334,194
6 Claims. (Cl. 223—68)



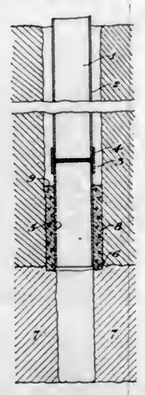
1. In a stand for hollow dress-forms and the like, comprising a base, a standard rising vertically from said base, and dress-form supporting means carried by said standard, the improvement which consists in the provision of a neck-portion supporting frame including a plurality of frame-rings of different diameters and disposed in substantially parallel planes, a plurality of upwardly convergent frame-ring spacing members, and a pivot-rod carried by said neck-frame and supported by said standard providing for tilting movements of the neck-frame relatively to the standard.

2,284,968
PIEZOELECTRIC CRYSTAL APPARATUS
John M. Wolfskill, Erie, Pa., assignor to Bliley Electric Company, Erie, Pa., a partnership composed of F. Dawson Bliley and Charles Collman, partners, both of Erie, Pa.
Application September 6, 1941, Serial No. 409,887
14 Claims. (Cl. 171—327)



1. Piezo electric crystal apparatus, comprising: a piezo electric crystal having a pair of major faces, electrodes for said major faces, one of said electrodes being adjustable with respect to the corresponding one of said faces to provide an air-gap therebetween, and means for substantially preventing the movement of said crystal toward or away from at least one of said electrodes during vibration of the apparatus, said means comprising adjustable members extending to and almost touching face portions of said crystal to define and substantially prevent movement of said crystal toward or away from the aforesaid electrode but not affect operation thereof.

2,284,969
METHOD OF COMPLETING WELLS
James H. Adkison, Tulsa, Okla., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application April 17, 1940, Serial No. 330,144
11 Claims. (Cl. 166—21)



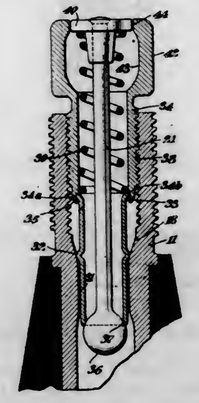
1. In a method of casing a well drilled into a stratum to be tested for production, the steps which consist in locating in the well bore a metal pipe comprised essentially of iron and having attached to its lower end a section of pipe which is more readily removable by chemical means than the iron pipe, introducing a quantity of a sealing material into the well bore so as to seal only the readily removable section in the well bore at a point above the stratum to be tested for production, ascertaining the productivity of said stratum, bringing about the disintegration of the readily removable section of metal pipe by chemical means, and thereafter withdrawing the metal pipe comprised essentially of iron from the well bore.

2,284,970
METHOD OF GROWTH CONTROL AND CARRIER
George S. Avery, Jr., New London, Conn., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application May 23, 1940, Serial No. 337,111
13 Claims. (Cl. 47—58)

1. As a new composition of matter, a water-dispersible wax, emulsion containing an auxin in low concentration, residues of which emulsion dry to form a flexible, weather-resistant semi-permeable coating over surfaces with which they are contacted.

9. A method of preventing the abscission of a part of a growing plant comprising treating the plant with an aqueous emulsion comprising a wax and an auxin at a time substantially in advance of the period when the part might be expected to be abscised, said emulsion residues forming a weather-resistant film over the treated portions of the plant which is sufficiently permeable to permit the plant to absorb the auxin.

2,284,971
PNEUMATIC VALVE
Lewis C. Broecker, Nichols, Conn., assignor to Bridgeport Brass Company, Bridgeport, Conn., a corporation of Connecticut
Application November 3, 1939, Serial No. 302,661
3 Claims. (Cl. 277—42)

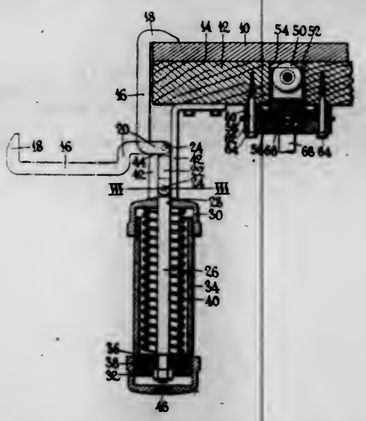


3. A tire valve comprising a barrel having an external shoulder adapted to engage the internal valve seat of a conventional valve stem, and an outwardly and laterally extending flange at the upper end of said barrel, a sleeve adapted to threadedly engage a threaded portion of said stem above said valve seat, said sleeve having an inwardly turned portion at its lower end providing a recess in which said flange fits to provide free and relative rotation between said barrel and said sleeve without relative longitudinal displacement, said barrel having a valve seat at its lower end, soft metallic coating on said barrel extending over the portion thereof beginning with its said external shoulder to and including its valve seat, a valve body adapted to co-operate with said coated valve seat, a center pin extending upwardly from said valve body through said barrel and said sleeve, a head on said pin adjacent its upper end so admeasured as to provide a closure for the upper end of said sleeve, and a spring surrounding said pin and extending between said head and said flange, said spring having an enlarged portion at its lower end resting on said flange and frictionally engaging the inner wall of said sleeve above said recess.

2,284,972
WORK SUPPORT AND HOLD-DOWN MECHANISM
George Carson, Buffalo, N. Y., assignor to Bell Aircraft Corporation, Buffalo, N. Y.
Application November 9, 1940, Serial No. 365,069
10 Claims. (Cl. 90—59)

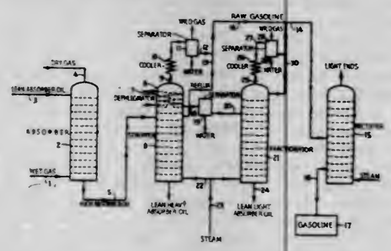
1. A work piece hold down device comprising a clamp member movable into and out of work piece clamping position, means for actuating said clamping member toward work piece clamping position including a preloaded elastically de-

formed member, means for moving said clamp member out of work piece clamping position



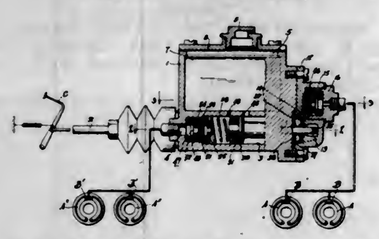
against the action of said elastic member including a fluid pressure motor device.

2,284,973
RECOVERY OF GASOLINE FROM NATURAL GAS
Walter C. Dayhuff and John E. Laurance, Whittier, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
Application November 25, 1940, Serial No. 367,040
2 Claims. (Cl. 196—3)



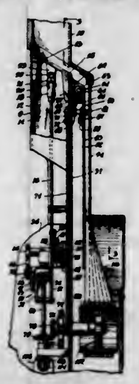
1. The method of recovering gasoline constituents from natural gas containing such constituents as well as substantial proportions of lower boiling point hydrocarbons, comprising passing said natural gas to a liquid absorption medium, absorbing gasoline constituents contained in said natural gas in said absorption medium, treating said absorption medium to cause the vaporization of substantially all of said gasoline constituents absorbed therein as well as some of the lighter fractions of said absorption medium, passing said vapors to a zone of partial condensation wherein said vaporized portions of said absorption medium and a minimum amount of the heavier of said vaporized gasoline fractions are condensed, the uncondensed gasoline constituents being passed overhead and separately recovered, treating said condensed absorption oil and heavier gasoline fractions, apart from the main body of said absorption medium and gasoline constituents, in order to separate said condensed absorption medium and said heavier gasoline fractions.

2,284,974
HYDRAULIC BRAKING SYSTEM
Geoffrey Robert Greenbergh Gates, London, England, assignor to Automotive Products Company Limited, London, England
Application March 9, 1939, Serial No. 260,830
In Great Britain March 12, 1938
8 Claims. (Cl. 60—54.5)



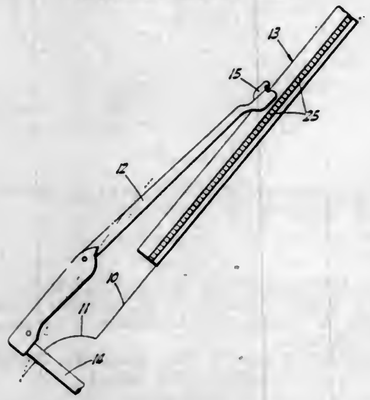
1. A master cylinder unit, comprising a main cylinder bore, a piston therein, an auxiliary bore, a floating piston therein, a plurality of motor units one of said units being connected to the main bore and a separate unit being connected to the auxiliary bore, an end cover secured to the end of the master cylinder unit and having a liquid passage therethrough connecting the main and auxiliary bores, and mechanical means adapted to at times connect the main and auxiliary pistons, said means including a rocker mounted in the aforesaid liquid passage connecting the bores.

2,284,975
ARTICLE DELIVERY MECHANISM
Herbert Horner, Woodhaven, N. Y.
Application September 29, 1938, Serial No. 232,261
14 Claims. (Cl. 221—142)



11. An apparatus comprising a set of delivery chutes through which substantially flat articles flow by gravity, a hopper mechanism for feeding articles to the tops of the chutes comprising a plurality of pockets, members reciprocable in the pockets to receive articles from a supply above the pockets and then discharge the articles over the tops of the pockets toward the tops of the chutes, an oscillatory roller between the pockets and the chutes carrying projections for engaging the articles and positioning them to pass edgewise toward the chutes, a plurality of oscillatory members each having a flat side and a rounded side cooperating when the members are oscillated to insure delivery of the articles one after another to keep each of the chutes filled, and an operating mechanism for reciprocating the pocket members sequentially, oscillating the roller and oscillating the flat sided members.

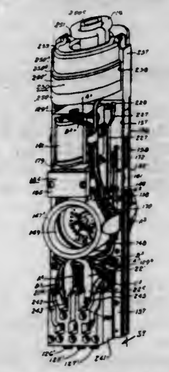
2,284,976
WIPER BLADE
Erwin C. Horton, Hamburg, and Anton Rappl, Buffalo, N. Y., assignors to Trico Products Corporation, Buffalo, N. Y.
Application December 19, 1939, Serial No. 310,007
3 Claims. (Cl. 15—250)



1. In a windshield wiping element, a resilient wiping strip having marginal edges of enlarged cross-section and an intermediate web portion of reduced thickness, one marginal edge portion being enclosed in a channel holder and the opposite marginal portion constituting a wiping edge, and scraping means comprising a channel-shaped element of more rigid material than said wiping strip, said scraping means embracing the one marginal portion of said wiping strip within said channel support and the opposite legs of said scraping means comprising outwardly flaring marginal scraping edges, the marginal portion of said wiping strip within said channel being adapted to give resilient backing to either of the scraping edges when such scraping edge is in scraping position, with the opposite marginal scraping edge in engagement with the enlarged marginal portion which constitutes the wiping edge of said wiping strip to provide a backing therefor, the intermediate reduced web portion of said wiping strip permitting relatively ready movement of the wiping edge of said strip from one to the other of its limit positions as defined by said marginal scraping edges.

2,284,977
PARKING METER
Herman S. Johns, Oklahoma City, Okla., assignor to Wiley W. Lowrey, Oklahoma City, Okla.
Application August 19, 1937, Serial No. 159,934
31 Claims. (Cl. 194—9)

1. A coin operated parking meter including, a tubular housing having an opening therein, a rotatable dial within the housing and visible through the opening and having time indicating graduations thereon, means adjacent the dial for illuminating said dial to make the same clearly visible, means actuated by the insertion of a coin in the meter for operating the illuminating means, means also actuated by the insertion of the coin for placing the dial in operation, and a luminous signal mounted in the housing and visible to an observer, said signal being controlled in its actuation by the dial and being arranged

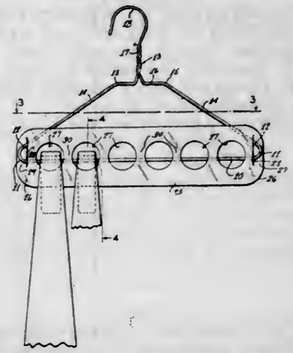


to be lighted when the parking period has expired.

2,284,978
METHOD OF PREPARING MAGNESIUM THEOPHYLLINE
Philip A. Kober, Detroit, Mich., assignor to G. H. Sherman, M. D., Incorporated, Detroit, Mich., a corporation of Michigan
No Drawing. Application March 6, 1939, Serial No. 259,950
1 Claim. (Cl. 260—253)

The method of preparing magnesium theophylline which consists in allowing theophylline to react with an ionizable magnesium compound in the presence of an aqueous alkaline solution, and washing the product with faintly alkaline water to dissolve out any free theophylline.

2,284,979
RACK FOR NECKWEAR
Hettye S. Lazarus, St. Louis, Mo.
Application April 7, 1941, Serial No. 387,205
4 Claims. (Cl. 211—113)



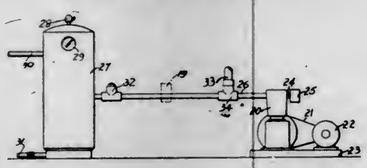
1. A holder or rack for retaining articles of neckwear in spaced alignment, the rack including a smooth rod normally suspended in horizontal position, a flat strip element of relatively rigid material provided with spaced apertures for receiving articles of neckwear carried primarily by the rod element, the ends of the rod being doubled back to overlie the body of the rod, so as to provide bight portions at the ends of the rod, the ends of the strip element being provided

with normally vertical slots, and the bight portions of the rod extending through the slots to assemble the rod to the strip.

2,284,980
UNLOADER FOR COMPRESSORS OR THE LIKE

Burr Ward Mantle, Pittsford, N. Y., assignor to The American Brake Shoe and Foundry Company, a corporation of Delaware

Application December 11, 1940, Serial No. 369,556
5 Claims. (Cl. 230—24)



1. In an unloader for compressors, a body having a cylindrical bore formed therein, a second cylindrical bore formed in said body and communicating with said first cylindrical bore, said second bore being larger in diameter than said first bore, thereby leaving an annular shoulder therebetween, a valve seat mounted in said shoulder, a piston in said first bore, a piston in said second bore, means connecting said pistons, said second-mentioned piston having open sectors formed adjacent to its periphery and carrying an annular seating face adapted to seat on said valve seat, a cross passage in said body communicating with the atmosphere and with said first bore between said pistons, spring means urging said pistons in one direction, a second spring means urging said pistons in the opposite direction, the balance between the urges of said spring means being such that said second bore is normally in communication with said cross-passage via said first bore, and means to connect said body with its second bore in communication with the discharge of said compressor.

2,284,981
DEHUMIDIFYING COMPOSITION AND METHOD OF PREPARING SAME

Henry Arthur Martin, Kansas City, Mo., and Carl V. Spangler, Springfield, Ohio, assignors to J. F. Pritchard and Company, Kansas City, Mo., a corporation of Missouri

No Drawing. Application November 20, 1939, Serial No. 305,316
4 Claims. (Cl. 252—194)

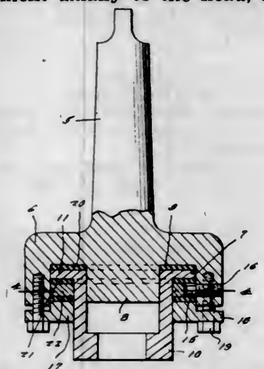
1. A dehumidifying composition capable of being reactivated after use, by application of heat, to restore moisture absorbent and adsorbent properties thereof consisting of activated bauxite impregnated with manganous chloride.

2,284,982
SAFETY MACHINE TOOL COUPLING

Walter Miller, Allentown, Pa., assignor to Agatha Dietz Palmer, Philadelphia, Pa.

Application December 31, 1941, Serial No. 425,193
5 Claims. (Cl. 10—135)

1. A drive coupling for tools comprising a drive head having a recess therein, a drive socket having a lateral flange at its inner end positioned in the recess of the head, a drive ring secured in the recess outwardly of the flange, means providing a positive connection between the drive ring and the head, a locking ring adjustably secured in the outer portion of the recess and adapted for movement axially of the head, and friction

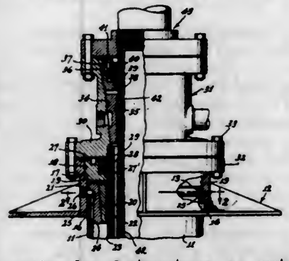


members disposed at both sides of the flange and at both sides of said drive ring.

2,284,983
CASING HEAD CONSTRUCTION

Burt S. Minor, Whittier, Calif., assignor to Regan Forge & Engineering Company, a corporation of California

Application June 9, 1939, Serial No. 278,234
4 Claims. (Cl. 166—1)



1. In a casing head structure, an outer casing, a casing head member having an internal flange, a weld between the upper end of said outer casing and said flange, a split spider in said casing head member supported on said flange, said spider extending downwardly into said outer casing, an inner casing, slip members mounted in said spider in engagement with said inner casing, and packing means between said casing head member and said inner casing.

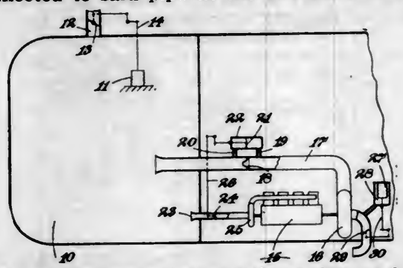
2,284,984
HIGH-ALTITUDE AIRCRAFT

Frank Nixon and Elwyn Ivo Banks Marples, Bristol, England, assignors to The Bristol Aeroplane Company Limited, Bristol, England, a British company

Application February 13, 1941, Serial No. 378,827
In Great Britain January 20, 1940
2 Claims. (Cl. 128—204)

1. In a high-altitude aircraft, the combination of a cabin capable of substantially airtight closure, a blower supplying air to said cabin, an engine driving said blower, a pressure-responsive device in said cabin, an outlet valve from said cabin, a pressure responsive device within said cabin, and an interconnection between said device and said outlet valve which closes said valve when the pressure within the cabin reaches a predetermined minimum, a pipe connecting said

blower with said cabin, a contracted orifice in said pipe, a second pressure-responsive device connected to said pipe at the two sides of said

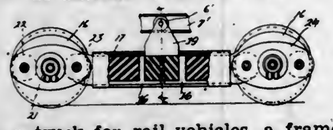


orifice, a throttle valve on said engine, and an operative connection therefrom to said second pressure-responsive device.

2,284,985
VEHICLE SPRINGING SYSTEM

Emil H. Piron, Highland Park, Mich., assignor, by mesne assignments, to Transit Research Corporation, New York, N. Y., a corporation of New York

Application June 26, 1933, Serial No. 677,729
16 Claims. (Cl. 105—224.1)

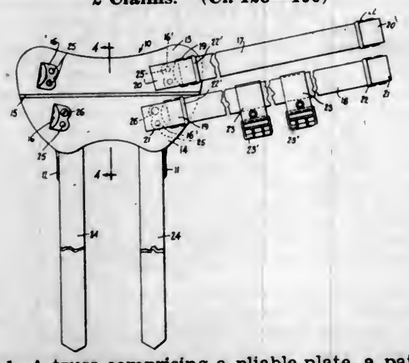


5. In a truck for rail vehicles, a frame composed of cross beams and side girders rigidly secured thereto, said girders having opposed masses of rubber secured thereto, journal bearings mounted on arms, said arms extending between said masses of rubber for support thereby, said rubber resisting relative vertical and longitudinal movement of said arms and said girders in shear and resisting relative transverse movement of said arms and said girders by compression.

2,284,986
TRUSS

Moris Portnow, New York, N. Y.

Application December 28, 1940, Serial No. 372,061
2 Claims. (Cl. 128—106)

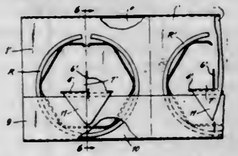


1. A truss comprising a pliable plate, a pair of cushion pads secured thereto, said plate comprising an upper longitudinal area and a lower longitudinal area, both of said areas being of substantially equal size, said upper area being thinner than said lower area, a line of demarcation throughout the length of said plate at the juncture of said area of greater thickness and said area of lesser thickness, a pair of hook members riveted to said upper area, a pair of hook members riveted to said lower area, a pair of leg straps retained by said last named hook members, an elastic strap having buckles at each end, said buckles being formed with loops for engagement with said first named hook members, an inelastic strap having a buckle at each end, said buckles formed into loops for engagement with said last named hook members, slidable means on said inelastic strap for removably retaining said leg straps in operative position, and means for adjusting said elastic and inelastic straps around the body.

2,284,987
PACKAGE

Herbert M. Ramel, University City, and Omar M. Storey, St. Louis, Mo., assignors to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo., a corporation of Missouri

Application May 22, 1940, Serial No. 336,514
1 Claim. (Cl. 206—79)

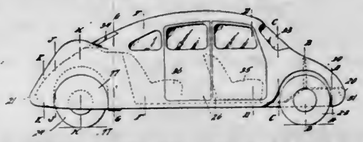


A package for comparatively flat articles, said package comprising a series of integrally formed panels arranged in juxtaposition, a protective flap integrally formed with the continuous edge of the collective panels and folded over said panels to form a pocket at the lower part of each panel, each panel having a slot above said flap, and a back member overlying the panels on the side opposite to the flap, and a tongue for each panel integral with the back member, each tongue projecting through its corresponding slot and overlying the flap.

2,284,988
MOTOR VEHICLE

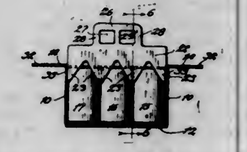
Elliott G. Reid, Palo Alto, Calif., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan

Original application February 24, 1937, Serial No. 127,540. Divided and this application December 11, 1939, Serial No. 308,737
6 Claims. (Cl. 296—1)



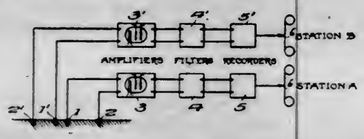
1. In a motor vehicle, the combination with a vehicle body having an external form conducive to the maintenance of a smooth flow of air thereover and including a generally flat and uninterrupted lower surface, of steerable road wheels partially housed within said body, said lower surface being formed with openings through which said road wheels extend, said openings being formed to permit of horizontal swinging movement of said wheels in steering, and closure members for said openings supported for swinging movement with said wheels.

2,284,989
CARTON CONSTRUCTION
Harold E. Rue, Wauwatosa, Wis., assignor to Pabst Brewing Company, Chicago, Ill., a corporation of Delaware
Application November 8, 1940, Serial No. 364,792
14 Claims. (Cl. 229—51)



1. A handle member adapted to be restrained in lifting relation to a carton upon closure and sealing thereof and adapted to be readily inserted into a carton containing a plurality of individual packages shaped to provide interpackage spaces when in contact with each other and having substantially vertical walls meeting the package tops in peripheral edges, said handle member including a sheet-like body portion nestable between adjacent rows of said packages in said carton, said body portion having its lower edge formed to provide spaced tapered projections, adjacent projections being insertable in corresponding adjacent interpackage spaces for engaging the peripheral top edges of the packages to move the packages out of the path of said body portion as the handle member is inserted into the carton.

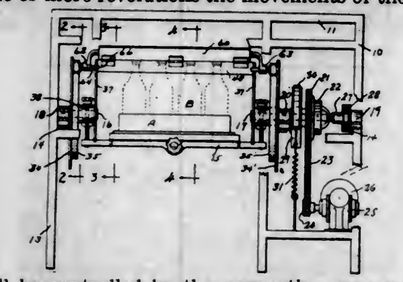
2,284,990
METHOD AND APPARATUS FOR ELECTRICAL PROSPECTING
Marcel Schlumberger, Fabert-Paris, France
Application July 5, 1939, Serial No. 282,904
In Germany May 8, 1939
8 Claims. (Cl. 175—182)



1. A system for the electrical prospecting of the undersoil which comprises, in combination, at least two grounding means, recording means, electrically connected with said grounding means, for recording variations of the potential difference between said respective grounding means, and additional means, associated with said recording means, for preventing telluric oscillations of frequencies ranging within at least one band from influencing said recording means.

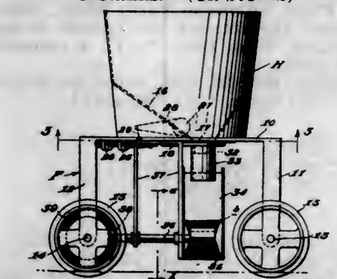
2,284,991
MACHINE FOR MIXING BEVERAGES
Leonidas L. Sewell and John J. Flynn, San Antonio, Tex.
Application September 28, 1940, Serial No. 358,762
4 Claims. (Cl. 259—57)

1. A device of the character described including, a cradle, means for rotating said cradle through a complete revolution, a hinged lid spaced above said cradle, a continuous cam surface disposed at one end of the cradle and held in a fixed position, and means connected to said lid adapted to bear continuously on said cam surface whereby as the cradle is rotated through one or more revolutions the movements of the lid



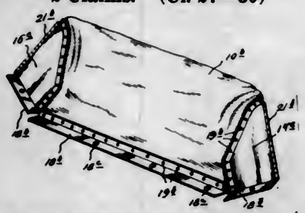
will be controlled by the connecting means between the lid and the cam surface.

2,284,992
FERTILIZER DISTRIBUTING IMPLEMENT
Abner B. Shaw, North Dartmouth, Mass.
Application December 9, 1940, Serial No. 369,341
9 Claims. (Cl. 275—2)



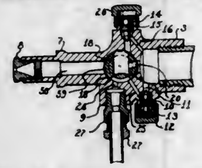
1. A fertilizer distributing implement comprising a frame, a fertilizer receiving hopper supported on the frame, a pair of longitudinally alined transporting wheels journalled on the frame and disposed to one side thereof, a chute supported by the frame, means for delivering fertilizer from the hopper into the chute, a shaft parallel with the plane of said wheels and operatively connected with one of the wheels for rotation thereof, and means operatively connected with the shaft for discharging fertilizer from the chute.

2,284,993
GRAVE PROTECTOR
Elbia C. Simmons, Albemarle, N. C.
Application August 8, 1941, Serial No. 406,048
2 Claims. (Cl. 27—30)



1. In a grave protector, a flexible cover, rigid upstanding end walls having end edges of the cover secured thereto and each including foldable sections, and rigid non-connected members secured to side edges of the cover and to the sections of the end walls and each adapted to have applied thereto ground anchoring means to prevent collapsing of the cover and folding of the end walls.

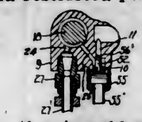
2,284,994
FLOOR FURNACE VALVE
Casper S. Stuckenholt, Cleveland, Ohio, assignor to The W. J. Schoenberger Company, Cleveland, Ohio, a corporation of Ohio
Application June 5, 1941, Serial No. 396,765
2 Claims. (Cl. 251—105)



1. A valve for floor furnaces comprising a casing with a plug receiving bore, a plug having rotatable bearing in said bore, said casing having inlet and outlet extensions leading to and from said bore respectively, said inlet extension being adapted for connection with the house main gas supply line and said outlet extension being adapted for connection to the mixing tube of the furnace burner for conducting gas thereto, said casing having a second outlet extension provided with a restricted passage leading to said bore for conducting gas from the bore to the pilot light for the furnace burner, a hollow extension on each side of said casing forming pockets, each of said pockets having a restricted passage leading thereto from said hollow inlet extension and also having a restricted passage leading to said plug receiving bore, said plug having an arcuate peripheral slot adjacent one end, a large cross passage extending transversely through the plug intermediate the ends thereof and a restricted opening leading from the periphery of the plug to and in a direction substantially at right angles with said large cross passage, said restricted passage leading from one of said pockets and from said second outlet extension to said bore respectively being bridged by said arcuate slot and said restricted passage from the other of said pockets and the said inlet and outlet extensions being in the path of movement of said large passage and said communicating restricted passage in the plug such that when the plug is rotated from a closed position to its first active position a reduced flow of gas may flow from the inlet extension to and through one of said pockets to said bore and thence through said arcuate slot into said second outlet extension, the flow of gas to the first outlet extension being blocked by the plug, and such that when the plug is rotated to its second active position a full volume of gas may flow from the inlet extension through the large cross passage in the plug to the first outlet extension while reduced flow to said second outlet extension continues, and such that when said valve plug is rotated to its third active position a reduced volume of gas may flow from the inlet extension to and through the other of said pockets and thence through the large passage way in the plug to and through the restricted transverse passage in the plug to the first outlet extension while reduced flow to said second outlet extension continues.

2,284,995
FLOOR FURNACE VALVE
Casper S. Stuckenholt, Cleveland, Ohio, assignor to The W. J. Schoenberger Company, Cleveland, Ohio, a corporation of Ohio
Application June 27, 1941, Serial No. 400,087
4 Claims. (Cl. 277—50)

1. In an valve for floor furnaces having a pilot light in the main gas line, a casing formed with a plug receiving bore, a plug having a rotatable bearing in said bore, said casing having inlet and outlet connections leading to and from said bore respectively, said inlet connection being adapted for connection with the main gas supply line and said outlet connection being adapted for connection with the mixing tube of the burner of the furnace for conducting gas thereto, said casing having a pilot light extension provided with a restricted passage leading thereto from the bore, said extension leading to the pilot light for the main burner, a hollow nipple formed on the casing adjacent said pilot extension and having restricted passages leading therefrom to said bore and thereto from said inlet connection respectively, said nipple having an open outer end adapted for direct connection with the main gas line, a threaded needle valve in the pocket for regulating or shutting off the flow of gas through the said restricted passage leading from



said inlet connection to said pocket leaving open said restricted passage leading from said pocket to said bore, said plug having an arcuate peripheral slot and a cross passage therein, said restricted passages leading from the nipple to the bore and from the bore to the pilot extension being bridged by said arcuate slot and the said inlet and outlet connections being in the path of movement of said cross passage such that when the plug is rotated from a closed position to its first active position a reduced flow of gas may flow direct from the gas line to said pocket and bore and thence through said arcuate slot into said outlet pilot light extension, the flow of gas to the outlet connection being blocked by the plug and such that when the plug is rotated to another active position a full volume of gas may flow from the inlet connection through the large cross passage into the plug to and through the outlet connection while reduced flow to said pilot light extension continues.

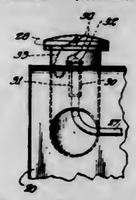
2,284,996
FLOOR FURNACE VALVE
Casper S. Stuckenholt, Cleveland, Ohio, assignor to The W. J. Schoenberger Company, Cleveland, Ohio, a corporation of Ohio
Original application June 5, 1941, Serial No. 396,765. Divided and this application January 28, 1942, Serial No. 428,621
5 Claims. (Cl. 251—165)



3. A valve for floor furnaces comprising a casing having a vertically disposed valve seat and a hollow extension, a passaged plug rotatably received in said seat, a lock washer and a flanged apertured cap cooperating to confine the plug in its seat, a stem extending through said cap slidably and non-rotatably interlocking with said plug, a vertically disposed elongated operating rod for actuating the rod from a floor above the furnace, a socket member having means in one end thereof for operatively receiving one end of

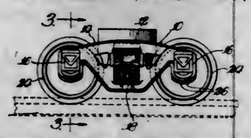
said rod, the other end of the socket member being attached to the stem for relative tilting movement to facilitate attachment of the rod to the stem and to prevent binding of the plug during the operation of the valve by means of the rod, the cap and the washer being formed with vertically aligned locking notches, means within the casing and cap yieldingly and axially shiftable with respect thereto for yieldingly forcing said stem continuously outwardly, and said means having an arm adapted to seat in the locking notch in the cap and to lock the stem and plug against rotation in one active flow position of the valve and to continue to lock the stem and plug against rotation when said arm is forced downwardly out of said notch in the cap and into the notch formed in the lock washer.

2,284,997
FUEL INDICATOR
Trygve H. Svendsen, Chicago, Ill.
Application December 11, 1939, Serial No. 308,719
3 Claims. (Cl. 158—46.5)



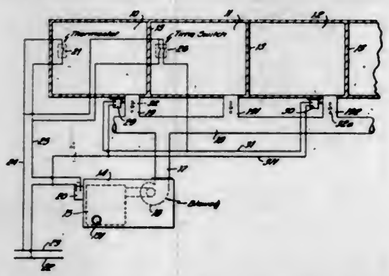
1. A fuel indicator for a power plant including an internal combustion engine and a fuel tank therefor; comprising an indicator chamber on a wall of said tank intermediate the top and bottom of said tank, said chamber being formed by a wall portion of said tank and by a separate member secured thereto, a suction pipe leading from said chamber to the engine, a second suction pipe leading from the bottom of said tank to said chamber, a normally open air supply tube having one end opening into said chamber and a free end exposed to the atmosphere, means for opening and closing said tube, said tank having a filling opening and a closure cap therefor, said tube leading from said chamber through said tank to said filling opening and terminating therein adjacent said cap, said means for opening and closing said tube, comprising a plug insertable in the free end of said tube to close the same, and means connecting said plug to said cap whereby said plug is removed from said tube to open the same when said cap is removed from said opening.

2,284,998
MODEL RAILWAY TRUCK
Gordon Varney, Chicago, Ill.
Application December 17, 1940, Serial No. 370,515
10 Claims. (Cl. 46—221)



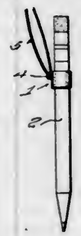
1. In a model railway truck, a frame consisting of a unitary bolster and end plates, and axle-receiving slots formed in the inner faces of said end plates the outer faces of said end plates being imperforate, said slots being open at their lower ends.

2,284,999
HEATING SYSTEM
Harold G. Veeder, Loudonville, N. Y.
Application August 12, 1938, Serial No. 224,421
8 Claims. (Cl. 236—10)



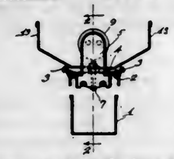
1. In a system of the character described, means defining a plurality of enclosed spaces, means for heating a fluid medium, means for delivering the heated medium to the respective spaces, a master temperature responsive device located in one of said spaces, means responsive to the operation of said device for controlling the operation of said heating means, a manually operated time switch located in a second space, means responsive to the operation of said time switch for governing the operation of said heating means irrespective of said master temperature responsive device and means operable in response to the operation of said time switch for simultaneously preventing the flow of the heated medium to the enclosed spaces other than the space in which said time switch is located.

2,285,000
SWINGING PENCIL HOLDER
Columbus C. Wallace, Fort Henry, Tenn.
Application June 30, 1941, Serial No. 400,481
1 Claim. (Cl. 24—10)



A pencil holder comprising a strip of resilient sheet metal bent to form an elongated sleeve open at its upper and lower ends and split longitudinally for its full length and constituting an elongated split clamp open at its ends and of a diameter adapting it to be expanded when fitted about a pencil and contract about the pencil to frictionally grip the same, and a clip carried by said clamp for engagement with a suspension cord, said clip consisting of a separate strip of stiff sheet metal secured flat against the outer surface of the clamp at the opposite side thereof from the split and extending longitudinally of the clamp and having its upper end portion free from the sleeve and rolled outwardly and downwardly to form an outstanding cord-receiving eye.

2,285,001
LIGHTING FIXTURE
Wesley Wilson, Chicago, Ill.
Application November 7, 1938, Serial No. 239,223
12 Claims. (Cl. 240—1)



1. A wiring strip and socket construction comprising an elongated channel section having an open side, a cover section for the open side of said channel covering substantially the entire length of said channel section, lamp socket means mounted on said cover for supporting a lamp having an elongated light source substantially parallel to said channel section, and a pair of oppositely disposed trough-like interchangeable reflectors alongside said lamp and substantially coextensive with said section, the inner edges overlapping adjacent said cover and releasably secured thereto to form a substantially continuous reflector surface.

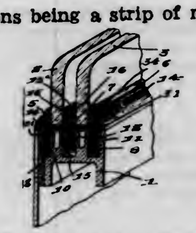
2,285,002
LIGHTING FIXTURE
Wesley Wilson, Chicago, Ill., assignor to Wilson Lighting Inc., Chicago, Ill., a corporation of Illinois
Application December 15, 1939, Serial No. 309,361
6 Claims. (Cl. 240—78)



2. A ceiling lighting fixture construction comprising a unitary construction including a concave downwardly and outwardly flaring reflector, a light source within said reflector and movable therewith and an annular supporting band having a spherical surface and supported so as to move with said reflector, and a supporting member having a circular opening lying in a horizontal plane below the center of said spherical surface on the edge of which said spherical surface rests and tilts in any direction, said edge supporting the entire weight of said unitary construction, the center of gravity of said fixture being close to the center of said spherical surface so that the friction due to gravity alone is sufficient to hold the fixture in adjusted position.

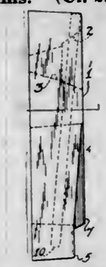
2,285,003
DOUBLE WINDOW CONSTRUCTION
Roy T. Axe, Syracuse, N. Y., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y., a corporation of New York
Application January 26, 1939, Serial No. 252,949
2 Claims. (Cl. 189—64)

1. A double window construction comprising a sash having resilient means for mounting a pair of spaced apart glass panels including a resilient spacer carried by and interlocked with the sash and extending between the margins of the glass panels, the spacer being formed with a lengthwise channel opening through its inner edge, and wedging means located in the channel and spreading the side portions of the spacer to press against the margins of the glass panels, said wedging means being a strip of metal V-shaped



in cross-section tensioned to spread the arms of the V formation laterally.

2,285,004
MANHOLE STEP
Robert H. Barriball, Cleveland, Ohio
Application March 6, 1939, Serial No. 259,977
5 Claims. (Cl. 228—46)



5. A device of the class described comprising a base having substantially parallel flat top and bottom sides, arms extending laterally from the ends of said base and whose bottom surfaces are in the same plane as the bottom side of said base, a cross bar connecting the outer ends of said arms, and being of less height than said base, the foregoing elements constituting parts of an integral body of earthenware, and a reinforcing element embedded within said body and extending lengthwise through said cross bar and rearwardly through said arms and into said base.

2,285,005
BODY AND FENDER HAMMER
Ferdinand H. Borm, Elgin, Ill.
Application November 25, 1938, Serial No. 242,217
15 Claims. (Cl. 153—48)

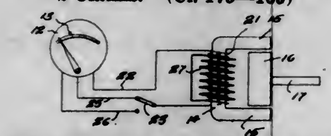
4. In an air hammer of the character described, a frame, a sleeve on the frame having an extension, a hammer head having an extension pivoted to the aforesaid extension, an air valve, a trigger lever for opening and closing said air valve, and a locking device pivotally mounted at one end on one side of the hammer head having an extension adapted for engaging on the outside of said trigger lever to depress said trigger lever to maintain said valve in open position.



12. In air hammer means, a hammer cylinder, a striker reciprocable in said cylinder, and an air valve assembly including an air supply having a transverse passage with an upwardly extending inlet to the cylinder, an air volume control valve

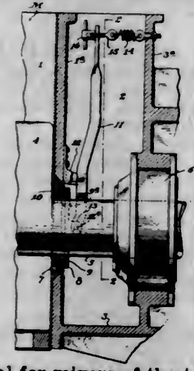
in the passage, an upwardly seating operating valve for the inlet, means normally seating the operating valve and means at one side of the hammer to unseat the operating valve from beneath and hold it unseated.

2,285,006
TACHOMETER GENERATOR
Roy S. Bowser, Syracuse, N. Y.
Application February 18, 1941, Serial No. 379,487
2 Claims. (Cl. 175—183)



1. A hand manipulated tachometer comprising a suitable casing, an indicating instrument of the voltmeter type mounted in said casing, said instrument having a dial graduated uniformly throughout the range of movement of the instrument hand, an alternating current generator mounted in the casing, said generator comprising a stator having pole pieces, an instrument energizing coil arranged on said stator and being connected to said instrument, a permanent magnet rotor journalled in the casing in juxtaposition to said stator and being operable upon rotation to induce a current in said instrument coil, and a closed compensating coil arranged on said stator to oppose the alternating magnetic flux in said stator and to increase such opposition in proportion to any increase in the frequency in the instrument winding.

2,285,007
SHAFT SEAL
Ambrose K. Brennan, York, Pa., and James M. Jans, Moorestown, N. J., assignors to Read Machinery Company, Inc., York, Pa., a corporation of Pennsylvania
Application June 18, 1940, Serial No. 341,204
5 Claims. (Cl. 286—32)



1. A shaft seal for mixers of the type including a mixing chamber and a rotatable agitator shaft extending through an oversize opening in an end wall of the mixing chamber, said shaft seal comprising a closure plate secured to said end wall at said opening and encircling the shaft, said closure plate having a tapered inner circumference defining with the agitator shaft a convergent recess surrounding the shaft, a pivotally-mounted lever located upon the opposite side of the end wall from the closure plate, a flexible packing member secured to said lever, said packing member having an elongated annular lip projecting from one side thereof and engaging the tapered inner circumference of the closure plate, and means for moving said lever about its pivotal mounting in a direction such as to urge the lip into the convergent recess and deflect said lip into frictional engagement with the shaft.

2,285,008
VALVE STEM
Adelbert E. Bronson, Shaker Heights, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Original application February 12, 1937, Serial No. 125,465. Divided and this application October 22, 1938, Serial No. 236,504
7 Claims. (Cl. 152—430)



1. In combination with a rubber article, a stem, a separate thin pliable perforate insert permanently secured to said stem and positioned on the exterior of the article, and a rubber patch or base arranged over said insert and article and vulcanized to the latter wherefore said insert will be mechanically united to the article by the rubber of the patch or base and article extending through the perforations therein.

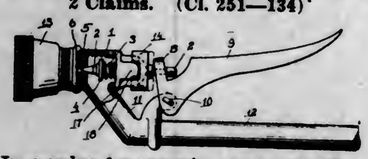
2,285,009
INTERPOLYAMIDE
Merlin Martin Brubaker, William E. Hanford, and Richard H. Wiley, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 24, 1941, Serial No. 380,366
8 Claims. (Cl. 260—78)

1. A process for forming a linear interpolyamide having a modulus of stiffness less than 50×10^3 lbs./sq. in. which comprises heating at polymerizing temperatures a mixture of reactants consisting essentially of X parts of 6 aminocaproic acid, Y parts of hexamethylenediammonium sebacate, Z parts of hexamethylenediammonium adipate, and T parts of a mixture of hexamethylenediammonium suberate and hexamethylenediammonium azelate in approximately 15:85–30:70 proportions, where $X+Y+Z+T=100$ and the minimum value of

$$X=10-0.333T+[0.02-10^{-5}(T-15)^2][Z-29.0-0.0208(T-23)^2]^2$$

the values for X, Y, Z and T being positive, at least three of them being not less than 5, and the values of X, Y, Z and T, being not in excess of 85.

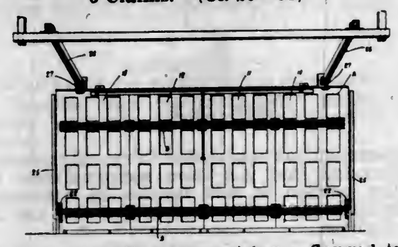
2,285,010
VALVE OPERATING MEANS
Giles E. Bullock, Rochester, N. Y.
Application August 2, 1940, Serial No. 349,628
2 Claims. (Cl. 251—134)



1. In a valve for spraying and sprinkling purposes having a valve body and a spring pressed

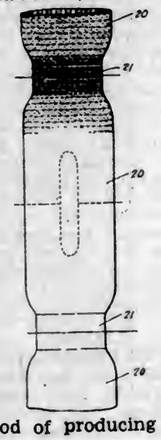
valve stem movable in and out of said valve body, handle means mounted to swing on said valve body in engagement with said valve stem for movement of said valve stem in one direction, a cylindrical spacing collar coaxially held and rotatably mounted on said valve stem between its handle connection and the valve body, a notch with a plurality of shoulders in one side thereof extending into one side of said spacing collar and stop means carried on said valve body for engagement with said shoulders for variable endwise movement of said spacing collar with said valve stem relative to said valve body.

2,285,011
DOOR MOUNTING
Allan Moyer Buehler, Preston, Ontario, Canada, assignor to Eastern Steel Products Limited, Preston, Ontario, Canada
Application December 7, 1940, Serial No. 369,106
6 Claims. (Cl. 20—38)



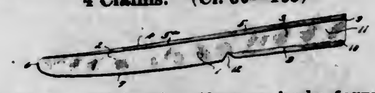
1. Door mountings comprising a flanged truss designed to extend over a plurality of door sections to unite them as a unit, a series of base plates disposed between the truss and the door sections spaced along the length of the latter and straddling each joint therebetween, bolts extending through the door sections, through said base plates and on each side of said truss and clear of its flanges, and clamping plates overlapping said flanges and engaged by said bolts for securing said door sections to the truss.

2,285,012
ELASTIC-BELT GARMENT AND MAKING SAME
William A. Burkey, Hamburg, Pa., assignor to Burkey Underwear Company, Inc., Hamburg, Pa., a corporation of Pennsylvania
Application November 19, 1938, Serial No. 241,355
2 Claims. (Cl. 66—176)



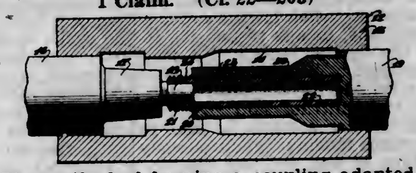
2. The method of producing underwear garments having integrally formed elastic belt bands at one end thereof, which consists in circularly knitting a continuous strip of tubular fabric, throughout circular band portions spaced lengthwise of said tube intruding a spiral coil of elastic thread held unknitted in said fabric, transversely severing said tube midway of each of said spaced band portions and also midway between the spaced bands, loosely securing the cut edges of said spaced elastic bands to form the top edge of an integral elastic garment belt, and finishing the cut edges between said band portions to form the bottom edge of an underwear garment.

2,285,013
CUTLERY
Joseph E. Burns, Syracuse, N. Y.
Application June 23, 1941, Serial No. 399,355
4 Claims. (Cl. 30—165)



2. In an article of cutlery, a body formed of resilient sheet material having a blade at one end and a handle portion at its other end, an elongated reinforcing flange projecting angularly from one edge of the blade and handle portions of the body and curved longitudinally along the blade portion of the body.

2,285,014
METHOD OF FORMING A COUPLING
Clyde G. Butler, Cincinnati, Ohio, assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio, a corporation of Ohio
Application September 26, 1939, Serial No. 296,641
1 Claim. (Cl. 22—203)

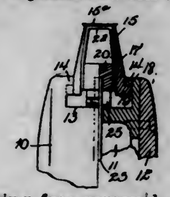


The method of forming a coupling adapted to be attached to the end of a flexible, high pressure hose consisting of the steps of constituting a die-casting chamber of elongated form, closing the ends of the chamber by inserted die elements, supporting a relatively hard metal nipple between said die elements with a substantial portion of the nipple disposed within one of the die elements, said nipple having its remaining end portion exposed within the chamber of elongated form, and thereafter die-casting metal in the chamber of elongated form about the exposed end of the nipple, said die elements and chamber wall being arranged to provide a body portion of die-cast metal for the coupling providing an annular chamber between the die-cast portion and the portion of the nipple, previously enclosed in the die element, adapted to receive the end of the hose.

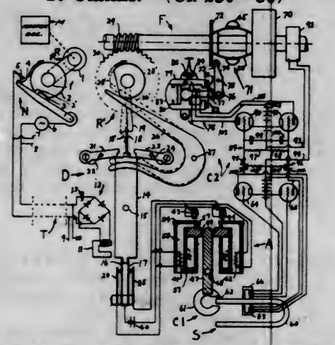
2,285,015
DRY SHAVER
William H. Camfield, Newark, N. J.
Application October 24, 1940, Serial No. 362,549
7 Claims. (Cl. 30—43)

1. In a dry shaver a casing having a groove, an outer cutter slidable longitudinally for installation in the groove, and a spring-pressed inner cutter pressing upwardly and fitting inside the outer cutter, the outer cutter and a wall of the groove having co-acting means for holding the

outer cutter in position when under upward pressure permitting free removal of the outer cutter when said pressure is overcome.



2,285,016
SYNCHRONIZING SYSTEM
Richard Wallace Carlisle, Elmsford, N. Y.
Application July 22, 1940, Serial No. 346,674
10 Claims. (Cl. 250—36)

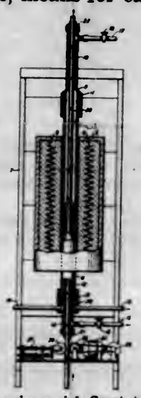


2. In a synchronizing system, in combination, a master station having cyclic action of a definite frequency, means responsive to the cyclic action of the master station for generating significant impulses, a follower station having cyclic action of a related nature and related frequency, means for transmitting said significant impulses from said master station to said follower station, a member moving synchronously with the cyclic action of the follower station a yieldably supported control member disposed near said moving member, electro-mechanical translating means arranged to exert a force on said control member in response to said significant impulses, means for exerting an effectively opposite force on said control member at one portion of the movement of said cyclically moving follower station, means for retaining said control member in the position to which it is moved by one or the other of said force exerting means, means for altering the frequency of cyclic action of the follower station by the action of said control member, and means for releasing said control member at regular intervals and returning it to a neutral position.

4. A synchronizing system as described in claim 2, and which is characterized by having a second control member and control means associated therewith, said second control member being arranged for altering the frequency of cyclic action of the follower station through much larger increments than the first-named control member.

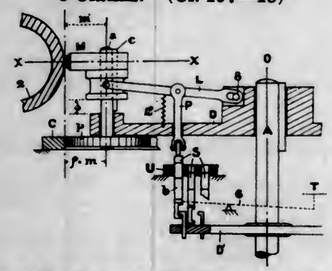
2,285,017
COATING APPARATUS
Carl J. Christensen, Flushing, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 8, 1940, Serial No. 317,834
4 Claims. (Cl. 91—18)

1. Apparatus for coating bodies with a layer of hard carbon by deposition from a hydrocarbon gas comprising a furnace maintained at a temperature such as to cause thermal decomposition of the hydrocarbon gas, a tube for conveying the bodies into said furnace, a second tube in axial alignment with said first tube but separated therefrom for conveying said bodies out of said furnace, means for causing the flow of a



hydrocarbon gas in said first tube, and means for discharging said gas from approximately the hottest portion of said furnace in a direction opposite to the direction of flow of said gas into the furnace.

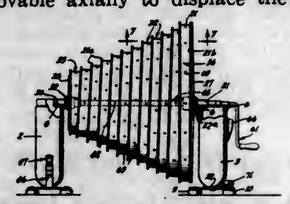
2,285,018
SILENT TYPEWRITING MACHINE
Achille Colombo, Rome, Italy
Application April 22, 1938, Serial No. 203,593
In Italy April 26, 1937
5 Claims. (Cl. 197—18)



1. In a silent typewriting machine, in combination with a paper-carrying roller: a driving shaft rotating continuously in one direction, a wheel keyed to said shaft, a sun gear coaxial with said shaft, a plurality of planetary pinions carried at the periphery of said wheel and in constant mesh relationship to said sun gear, a plurality of type-carrying pads, each associated with one of said planetary pinions and thereby driven with a continuous planetary motion, said pads being shiftable with respect to said paper-carrying roller between an inoperative position and a writing position, key-controlled means for shifting said pads into the writing position, and means for automatically returning said pads to the inoperative position.

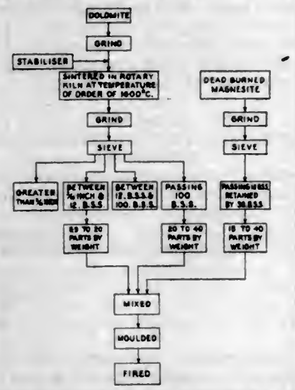
2,285,019
MEANS FOR PROCESSING FILM
Clarence E. De Yette, Los Angeles, Calif.
Application March 28, 1941, Serial No. 385,703
7 Claims. (Cl. 242—77)

1. A film holder, comprising: a member formed as a spiral having a plurality of radially spaced turns, the radially outwardly facing surface of said member being adapted to receive and support a strip of film, the ends of said member being movable axially to displace the adjacent



turns axially with respect to one another; means for holding the film in position on said surface and for constraining said film to move with said member when said adjacent turns are displaced axially and means associated with said member for limiting the axial displacement of the turns.

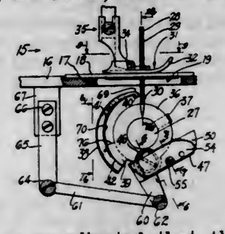
2,285,020
MANUFACTURE OF BASIC REFRACTORIES
Mark Douglas and Alan Ludwig Bradley, Worksop, and John Hugh Chesters, Sheffield, England
Application June 3, 1940, Serial No. 338,602
In Great Britain June 5, 1939
11 Claims. (Cl. 106—58)



1. The process of manufacturing a moulded dolomite-magnesite refractory which consists in grinding a stabilised dolomite clinker, separating from the ground clinker a fraction of coarse grain size which passes through a $\frac{3}{16}$ inch mesh sieve but is retained on a 12 B. S. S. sieve and a fraction of fine grain size which passes through a 100 B. S. S. sieve, mixing together proportions of the said coarse and fine fractions with a proportion of dead burned magnesite of grain size intermediate between that of the said coarse and fine fractions of dolomite and moulding and firing the mixture.

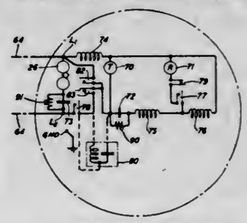
2,285,021
TUFTING ATTACHMENT
Jehue Russell Earp, Chattanooga, Tenn.
Application February 19, 1940, Serial No. 319,658
15 Claims. (Cl. 112—79)

1. In a tufting attachment for sewing machines having a needle, and mechanism for actuating the same including a rockable shaft under the cloth feeder of the machine, the combination with said needle and rockable shaft, of a head fixedly mounted on said shaft, an arcuate looper arm fixed on said head and adapted to engage in a yarn loop formed by the machine needle in its downwardly projected position, oscillatory means mounted on said head for swinging motion about a fixed point on the head, said oscillatory means comprising a blade for severing a yarn loop engaged by said looper arm, and a link having at one end a fixed pivot and having its other end pivotally connected to said oscillatory means, the latter, the link and the looper



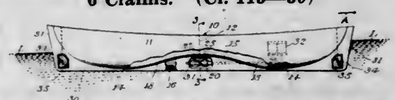
arm being so coordinated that the oscillatory means is actuated by the link to turn in a direction opposite to that of the looper arm upon turning movement of said shaft, with said looper arm and blade being spaced on opposite sides of the needle when the latter is lowered and the blade being spaced from the needle when the looper arm enters the yarn loop alongside of the needle, the blade and looper arm both moving into engagement with each other to cause the yarn loop to be cut while the needle is moving upward.

2,285,022
TELEPHONE SUBSTATION APPARATUS
William H. Edwards, Great Neck, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 29, 1940, Serial No. 321,365
9 Claims. (Cl. 179—81)



1. A circuit for a telephone set to be used in an explosive atmosphere, and in which one or more condensers are included, comprising means connected permanently across the condenser for enabling a charge on the condenser to be dissipated irrespective of the condition of any circuit opening and closing contacts in the set.

2,285,023
PROPELLER FOR BOATS AND SHIPS
Horace G. Fergus, Keyport, N. J.
Application December 12, 1938, Serial No. 245,325
6 Claims. (Cl. 115—39)



1. A boat comprising a hull having its sides tapering from its mid-section to both ends to form identical stems; said bottom being provided

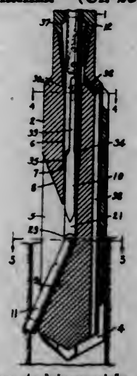
at the mid-section with a downwardly opening bubble pocket, deepest at its mid-part and having its face downwardly inclined at both ends and merging with the bottom; and a helical propeller axially longitudinally disposed in said pocket and adapted to propel equally well in either direction, whereby said boat may be propelled equally well in either direction with a single propeller.

2,285,024

SAMPLE TAKING APPARATUS

John B. Ferguson, Wharton, Tex.

Application August 11, 1939, Serial No. 289,519
5 Claims. (Cl. 255—1.4)



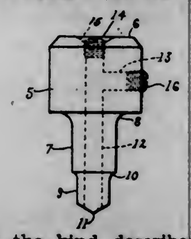
1. A device for taking side wall samples from a well bore comprising the combination of a tubular drill stem and drill, a side slot in said drill having outwardly flared upper and lower abutment and guiding surfaces, a sample taking assembly shaped to be lowered through and retrieved from within the drill stem, said assembly including a pivotally mounted sample receiver at its lower end, cooperating means in the bore and on said assembly to guide the assembly to a predetermined position within the bore so that the sample receiver moves outwardly over the guiding face and into contact with the wall of the well bore, and means for locking the sample taking assembly within the drill during the taking of a sample, whereby a side wall sample enters the sample chamber by the lowering and subsequent lifting of the drill stem and drill after the sample taking assembly is locked therein.

2,285,025

PIPE OPENING AND FLARING TOOL

Gordon C. French, Yonkers, N. Y.

Application August 8, 1940, Serial No. 351,794
1 Claim. (Cl. 153—79)



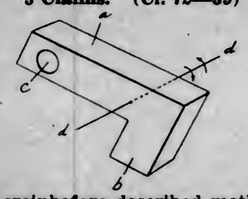
A tool of the kind described comprising a metallic cylindrical body portion having a head, a shank portion extending from said body portion, a flaring shoulder portion at one end of said shank portion, another shank portion of less diameter than the first shank portion extending from the first shank portion and terminating in a knife edge portion, a flaring shoulder on said latter shank portion, an opening extending centrally through said body and shank portions, said body portion having a lateral opening communicating with the central opening, a removable plug in said lateral opening, said head portion being formed with a counter-sunk portion to receive a plug for the central opening.

2,285,026

CAST REFRACTORY BLOCK

Gordon S. Fulcher, Chevy Chase, Md., assignor to Corhart Refractories Company, Louisville, Ky., a corporation of Delaware

Application September 23, 1939, Serial No. 296,311
3 Claims. (Cl. 72—39)



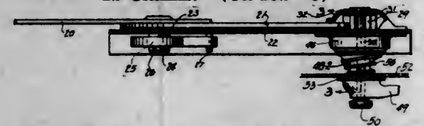
3. The hereinbefore described method of casting and solidifying an L-shape refractory block from molten material which comprises positioning a proper mold with one limb vertical and the other horizontal, pouring the molten material into the mold and thereafter during solidification turning the mold around a horizontal axis located near the junction of the two limbs.

2,285,027

DRIVE CONTROL MECHANISM FOR WINDOWS

Franklin Y. Gates, Salt Lake City, Utah

Application February 9, 1939, Serial No. 255,541
12 Claims. (Cl. 192—8)



1. In combination, rotatable spring motive means tending to rotate a shaft in one direction, and a brake device normally operative to prevent rotation of the said spring motive means, the said brake device comprising a stationary cup, a lock coil normally locked in the cup, rotatable means operative in either direction to selectively release the said lock coil from the stationary cup, a rotatable cup, another lock coil normally locked in the rotatable cup, connecting means normally interlocked between the two lock coils, rotatable means connecting the rotatable cup to the said motive means, and means selectively operative to release the second-mentioned lock coil from the rotatable cup.

2,285,028

ROSIN SIZE EMULSION

Edmund A. Georgi and Arthur L. Osterhof, Wilmington, Del., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 16, 1940, Serial No. 357,007
4 Claims. (Cl. 106—238)

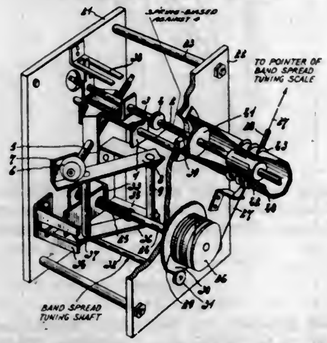
1. A dilute aqueous emulsion of a rosin size prepared by at least partially saponifying wood rosin which has been heat-treated at a temperature between about 250° C. and about 350° C. for from about 5 minutes to about 5 hours, said heat-treatment being sufficient to reduce substantially the tendency of the rosin to form 3:1 salt upon subsequent saponification but insufficient to destroy its crystallizability.

2,285,029

BAND-SPREAD TUNING MECHANISM

Frederik Hendrik Gusdorf, Eindhoven, Netherlands, assignor to Radio Corporation of America, New York, N. Y.

Application May 11, 1940, Serial No. 334,499
In Germany June 22, 1939
4 Claims. (Cl. 74—10)



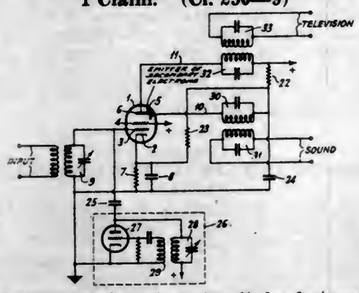
1. In a radio receiver of the type provided with one or more permeability tuned circuits and wherein the tuning means for each such circuit is constituted by a magnetic core mounted on a shaft and displaceable in the field of an inductance coil included in the tuned circuit, means for actuating said shaft in the direction of its length, said means comprising a carrier movable in the direction of the shaft, settable means carried by said carrier for determining the initial adjustment of said shaft, additional settable means carried by said carrier for determining the extent of linear displacement of the shaft, means for actuating the carrier through said additional means, and manually operable means for controlling the movement of the carrier actuating means.

2,285,030

RECEIVING SYSTEM

Johan Haantjes, Adelbert van Weel, Maximiliaan Julius Otto Strutt, and Aldert van der Ziel, Eindhoven, Netherlands, assignors to Radio Corporation of America, New York, N. Y.

Application May 11, 1940, Serial No. 334,502
In the Netherlands June 15, 1939
1 Claim. (Cl. 250—9)



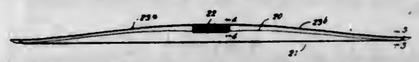
A frequency changing circuit for heterodyning and separating two signal-modulated carriers of different frequencies, comprising an electron discharge tube having at least a main cathode, a control grid, an auxiliary cathode in the form of a solid plate impervious to electrons adapted upon impact of electrons from the main cathode to emit secondary electrons, and an anode, means for simultaneously impressing both carrier frequencies upon the control grid, a local oscillator loosely coupled to the control grid for impressing a heterodyne frequency thereon, and a pair of impedances each included respectively in the circuit of the auxiliary cathode and in that of the anode and each having respectively a high value for one of the intermediate frequencies resulting from the interaction between the heterodyne frequency and each of the signal-modulated carrier frequencies.

2,285,031

ARCHERY BOW

Clarence N. Hickman, Jackson Heights, N. Y.

Application February 21, 1939, Serial No. 257,650
3 Claims. (Cl. 124—23)



1. An archery bow comprising, in combination, a wood member having a hand grip and flexible limbs, and a backing layer for the flexible limbs thereof, said backing layer being composed of an integral fabric of longitudinal straight fiber strands extending continuously from one end of the fabric to the other, said strands being bonded together by a thin coating of adhesive, a continuous length of said fiber fabric being secured by adhesive to each of the flexible limbs of the wood member along substantially the entire length of the flexible limbs.

2,285,032

AGE RESISTING RUBBER COMPOSITION

Joseph R. Ingram, Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application November 5, 1938, Serial No. 239,145
20 Claims. (Cl. 260—809)

1. The method of preserving a rubber which comprises treating a rubber with a product obtained by reacting indene and a secondary diaryl amine in which only secondary amino groups are present in the presence of a condensation catalyst.

2,285,033

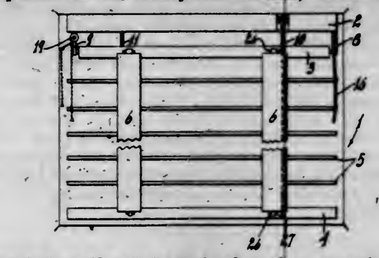
VENETIAN BLIND

Charles Judels, Los Angeles, and Donald L. J. Smith, Long Beach, Calif., assignors of fifty per cent to Charles Judels, Los Angeles, Calif., and fifty per cent to Donald L. J. Smith, Long Beach, Calif.

Application November 30, 1940, Serial No. 367,994
5 Claims. (Cl. 156—17)

1. A Venetian blind including in combination a plurality of slats, collapsible means holding said slats in spaced parallel relation, a header board, a tilt slat tiltably suspended from the header board, said slats being suspended from the tilt slat, a lift slat at the lower end of said slats, a pair of lift cords, one of said lift cords being attached to the front of the lift slat adjacent one end of the lift slat and extending vertically to the header board, the second lift cord being attached to the rear of the lift slat and adjacent the other end of the lift slat and extend-

ing vertically to the header board, a pull cord, said lift cords extending horizontally in the header board to the pull cord, a plurality of eyes on the collapsible means, said eyes being vertically spaced on the collapsible means, hooks fixedly



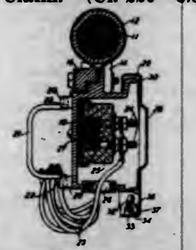
mounted on the slats and releasably engaging the eyes to removably mount the slats in position, and loops mounted on the collapsible means adjacent each of the slats and in vertically spaced relation, said lift cords extending through the loops.

2,285,034

COVER FOR CABLE TERMINAL HOUSINGS

Le Roy W. Kelsay, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 25, 1940, Serial No. 337,192
1 Claim. (Cl. 220—3.8)



A closure for cable terminal housings having openings in one side to permit access to the interior thereof, comprising an elongated resilient bellcrank member having offset portions at each end thereof, said offset portions pivotally mounted in lugs on the bottom edge of said housing at each end thereof, the upper edge of said housing having an upwardly projecting flange, a cover for said housing, having a rearwardly and downwardly turned flange on the upper edge thereof and having ears on the lower edge thereof for hingedly securing said cover to the intermediate portion of said bellcrank member, said flanges of said housing and said cover cooperating with said bellcrank member to lock the cover in its closed position when pressure on the front of said cover causes the bell-crank member to rotate rearwardly past dead center and force the bottom edge of said cover into firm engagement with the lower edge of said housing.

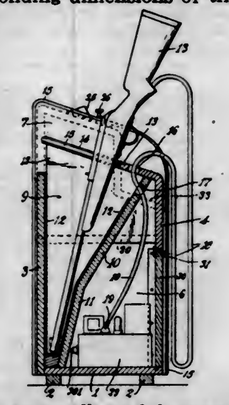
2,285,035

GUN STAND FOR ELECTRIC TARGET DEVICES

Mahlon W. Kenney, Oak Park, and Herman G. Jensen, Chicago, Ill., assignors to Rayolite Rifle Range Company, Chicago, Ill., a corporation of Oklahoma

Application July 15, 1940, Serial No. 345,522
12 Claims. (Cl. 312—146)

1. A gun stand for electric target devices and the like, including a housing containing an upwardly and rearwardly expanding interiorly cushioned gun pocket, a slotted closure therefor, the width and length of the slot being less than the corresponding dimensions of the pocket, the



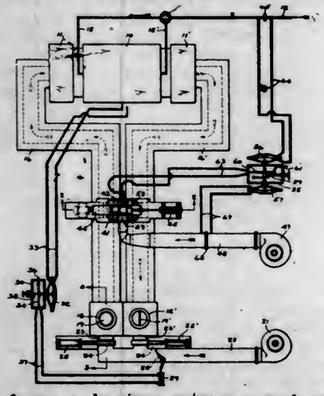
cover being rearwardly and downwardly inclined, the slot terminating short of the lower edge of the cover and extending through the upper edge thereof.

2,285,036

FURNACE

Strickland Kneass, Jr., Boylston, Mass., assignor to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts

Application February 6, 1941, Serial No. 377,699
10 Claims. (Cl. 263—43)



1. A furnace having entrance and exit passages, a nozzle arranged to discharge a jet of combustion air for entrainment of a portion of the waste gases from the exit passage and delivery thereof to the entrance passage, and a valve at the discharge end of the nozzle to control the flow of said air, the valve being adjustable along the axis of the nozzle.

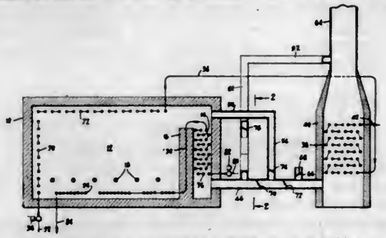
2,285,037

METHOD OF AND APPARATUS FOR HEATING FLUIDS

Walter E. Lobo, Westfield, N. J., assignor to Gasoline Products Company Inc., Newark, N. J., a corporation of Delaware

Application February 18, 1938, Serial No. 191,269
9 Claims. (Cl. 196—116)

1. An apparatus of the character described adapted for heating fluids which includes a furnace having a radiant section and a convection section disposed to receive furnace gases from said radiant section, means for supplying hot products of combustion to said radiant section, heater tubes in said radiant section for conveying fluid to be heated and disposed to receive radiant heat, heater tubes in said convection section for conveying fluid to be heated and disposed in the path of the combustion gases whereby heat is supplied to the fluid and the combustion gases are reduced in temperature, a separate heating section provided with heater tubes communicating directly with said heater tubes in said radiant section, and means whereby heat



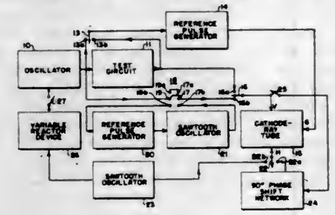
is supplied to said separate heating section, said means including a plurality of ducts, one of said ducts extending from said convection section and adapted to convey the cooled combustion gases from said convection section to said separate heating section and another duct extending from said radiant section to said separate heating section, whereby products of combustion having different temperatures are delivered to said separate heating section and the temperature of said separate heating section may be controlled by varying the amounts of products of combustion passing through said ducts.

2,285,038

SYSTEM FOR INDICATING ELECTRICAL PHASE-SHIFT CHARACTERISTICS

Bernard D. Loughlin, Great Neck, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware

Application August 3, 1940, Serial No. 350,722
17 Claims. (Cl. 172—245)





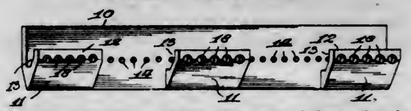
1. A system for visually indicating the phase-shift characteristic of an electrical apparatus comprising, a test circuit having connections for including the apparatus, a reference source of input periodic electrical waves, means for deriving from said source and supplying to said circuit a sinusoidal electrical wave of a given frequency and for deriving an output periodic electrical wave therefrom modified in accordance with the phase-shift characteristic of the apparatus, means responsive to one of said input and output waves for producing a corresponding periodic trace, means for deriving a control effect from the other of said input and output waves, and means responsive to said control effect for modifying said trace visually to indicate said phase-shift characteristic at said given frequency.

2,285,039

BLADE FOR EARTH EXCAVATING AND HANDLING MACHINES

Jack Frank Lowe, Brentwood, Calif., assignor to Arnold W. Edwards, Southgate, Calif.

Application February 19, 1940, Serial No. 319,652
1 Claim. (Cl. 37—141)



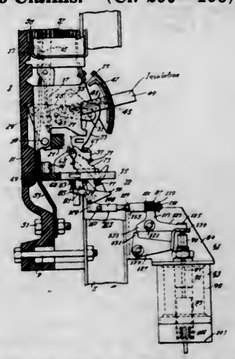
The combination with the mold board of an earth excavating and handling apparatus, of a blade positioned on the lower front face of the mold board and extending the entire length thereof, there being a row of apertures formed through said blade and extending throughout the length thereof, spaced brackets formed integral with the lower rear portion of said blade and projecting upwardly therefrom, said brackets having substantial length with the spaces between said brackets being substantially equal in length to the length of said brackets, the upper portions of said brackets being spaced apart from said mold board, there being a row of apertures formed in the upper portion of each bracket and extending lengthwise thereof, the apertures in said brackets coinciding with certain of the apertures in the blade, fastening means passing through the apertures in said brackets, said blade, and through the apertures formed in the mold board and those apertures in the blade between the brackets being adapted to receive fastening means that passes through the mold board.

2,285,040

CIRCUIT BREAKER

John W. May, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

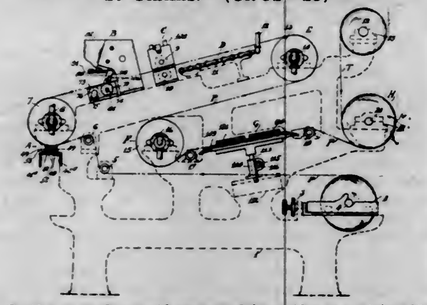
Application August 3, 1940, Serial No. 350,904
15 Claims. (Cl. 200—106)



1. A circuit breaker having relatively movable

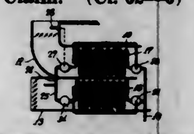
contacts, actuating means therefor including a member movable from one position to a second position to cause opening of said contacts, spring means disposed to normally oppose movement of said member to said second position with a predetermined force, means including an electroresponsive element not connected to said spring means operable when actuated to first render a major portion of said predetermined force ineffective to oppose movement of said member to said second position without overcoming said portion of the force and to then move said member to said second position against the remaining portion of said predetermined force.

2,285,041
COATING MACHINE
Charles W. Mayer, Walter Lueders, and Ralph J. Consler, Rochester, N. Y.; said Lueders and said Consler, assignors to said Mayer
Application August 8, 1938, Serial No. 223,622
10 Claims. (Cl. 91—13)



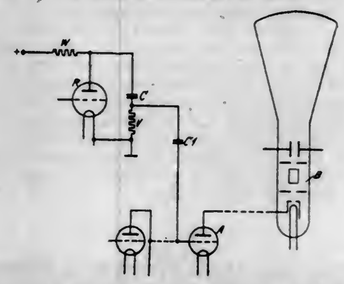
3. In a web coating machine, the combination with a main frame carrying a plurality of devices for driving, guiding and supporting a travelling web, of a device for spreading dope on the web, means for supplying dope to said device, a cooling roll, winding means, and brushing means arranged between said last two mentioned means for smoothing and burnishing the coated web from its center toward its opposite sides, said brushing means being detachable and replaceable as a unit on the frame of the machine.

2,285,042
AIR CONDITIONING APPARATUS
William H. Macdonald, Jr., Rochelle Park, N. J., assignor to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware
Application July 8, 1938, Serial No. 218,087
1 Claim. (Cl. 62—6)



An air conditioning system of the character described including a casing, a first refrigerant evaporator positioned in said casing and occupying one portion of a cross-sectional area thereof, a second refrigerant evaporator positioned in said casing and occupying another portion of said cross-sectional area thereof, means for passing a stream of air through said casing whereby one portion of the air stream passes in contact with one of the evaporators and another portion of the air stream passes in contact with the other evaporator, means for supplying liquid refrigerant to both of said evaporators, a refrigerant compressor, a common suction connection from said evaporators leading to said compressor, a back pressure regulating valve at the discharge end of the one of the evaporators operative responsive to changes in condition of the air supplied to said evaporator to vary the pressure of the refrigerant in said evaporator, the arrangement of evaporators being such that the pressure of refrigerant in the other evaporator will simultaneously be varied, an automatic pressure regulating valve at the discharge end of the other evaporator to prevent the pressure in said other evaporator from falling below a predetermined point when the pressure in the first evaporator rises above a desired point, and means for mixing and delivering both portions of the air stream to an enclosure to be conditioned.

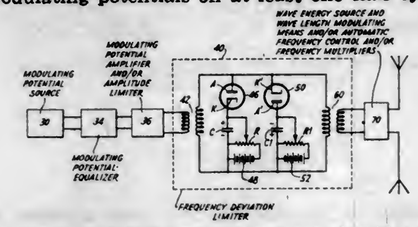
2,285,043
TELEVISION RECEIVER
Maximilian Messner, Berlin-Westend, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application August 22, 1936, Serial No. 97,391
In Germany August 23, 1935
5 Claims. (Cl. 250—27)



2. Apparatus for controlling the production of a cathode ray beam during its deflection in a definite direction comprising a cathode ray tube including means for developing, modulating, and deflecting a cathode ray beam, electrical energy storage means, means including a resistive member for linearly storing energy in said electrical energy storage means, said member and said electrical energy storage means being serially connected, a unidirectional conductor having a space discharge path for discharging the stored energy, said unidirectional conductor having the space discharge path thereof connected substantially in parallel with the electrical energy storage means and a resistance in series, and means connecting the modulating electrode of the cathode ray tube to the common terminal of the electrical energy storage means and said resistance connected serially therewith, the other terminal of said resistance being connected to the cathode of the cathode ray tube.

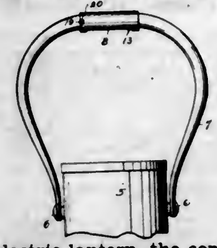
2,285,044
WAVE LENGTH MODULATION SYSTEM
Robert M. Morris, Millburn, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 11, 1941, Serial No. 382,716
19 Claims. (Cl. 179—171.5)

1. The method of wave length modulation of carrier wave energy which includes the steps of, modulating the wave length of said carrier in accordance with modulating potentials and instantaneously limiting the peak values of said modulating potentials on at least one half cycle



thereof to thereby limit the extent of said wave length modulation.

2,285,045
BULB CARRYING COMPARTMENT FOR HANDLES OF ELECTRIC LANTERNS
William M. Moxley, Kansas City, Mo.
Application May 14, 1941, Serial No. 393,475
9 Claims. (Cl. 240—10.63)



1. In an electric lantern, the combination with a lantern body, a bail pivoted to said lantern body, a housing included in and constituting a part of the length of said bail, a bulb-receiving and carrying clip within said housing and a closure for said housing, said housing being dimensioned to receive a spare bulb for the lantern.

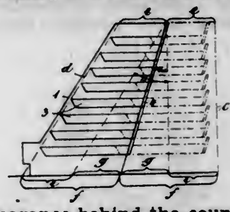
2,285,046
TILE AND METHOD OF SEALING
Jesse M. Murdock, Detroit, Mich.
Application December 9, 1939, Serial No. 308,399
2 Claims. (Cl. 285—115)



2. In a drainage tile, a sealing band extending around one end of the tile and adapted to co-operate with an end of a second tile, said band comprising a solidified tar compound having convolutions of fabric tape embedded therein and wound spirally of the tile with the compound relatively thick between layers of the fabric, the outer surface of the band being axially tapered, said layer of compound and fabric being characterized further by reduced shrinkage stresses.

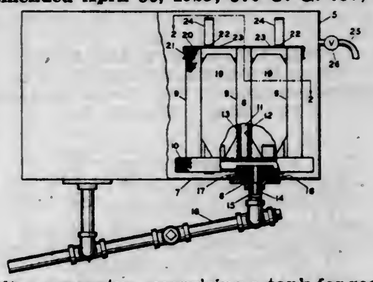
2,285,047
SHOP COUNTER
Gösta Olin, Stockholm, Sweden
Application September 28, 1938, Serial No. 232,037
In Sweden September 24, 1937
1 Claim. (Cl. 312—122)

In a shop counter of fixed form provided with a vertical series of support means in which trays adapted to carry articles for display and sale are slidably arranged one above another, and with a front wall which is upwardly inclined toward the rear, the feature which consists in that the counter has a rear wall which is also upwardly inclined in a rearward direction to pro-



vide foot clearance behind the counter, and that the trays are so mutually disposed within the outline of the counter that the angle between the rear wall and the vertical is substantially one-half as great as the angle between a plane passing through the front edges of the trays when in place and the vertical.

2,285,048
FILTER APPARATUS
Samuel Palkin, Washington, D. C., assignor to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and his successors in office
Application December 2, 1940, Serial No. 368,216
1 Claim. (Cl. 210—153)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

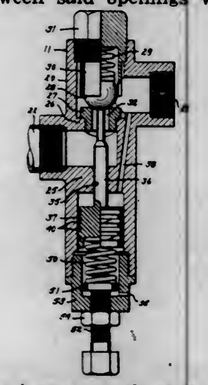


A filter apparatus comprising a tank for receiving material to be filtered, filter units in said tank, each unit having a plurality of filter leaves vertically disposed in horizontal spaced relation, each leaf comprising a plate core and a screen encasing said core, spacers removably disposed between the adjacent filter leaves to hold them in vertical alignment, a horizontal plate secured adjacent to the top of said leaves, an outlet pipe for said filter unit extending vertically from the bottom thereof, said tank having an aperture through its bottom, the lower end of said outlet pipe being removably disposed in said aperture, a discharge pipe below said tank, said aperture being connected to said discharge pipe, a plate about said outlet pipe for supporting said filter unit on the bottom of the tank, and means between said supporting plate and said tank for filtering material passing therebetween.

2,285,049
MEANS FOR PURGING WELLS
Asbury S. Parks, Houston, Tex.
Application January 27, 1939, Serial No. 253,077
1 Claim. (Cl. 166—2)

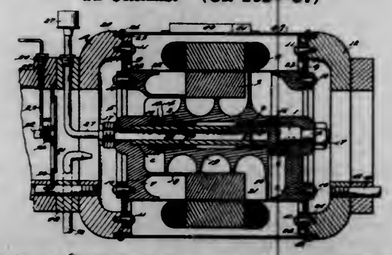
Apparatus for purging flowing wells comprising the combination of a flow line, a choke in the

flow line at the top of the well, a pressure controlled valve in a by-pass flow line about said choke, said valve comprising a body having inlet and outlet openings connected to the flow line on opposite sides of the choke, a valve member within said body, means operative for maintaining said valve in position completely closing the passage between said openings while the inlet



pressure remains at or above a predetermined value, and other means operative for opening and maintaining said valve in open position to open said by-pass flow line when the inlet pressure which is also the pressure at the top of the well falls below said predetermined value and remains below said predetermined value.

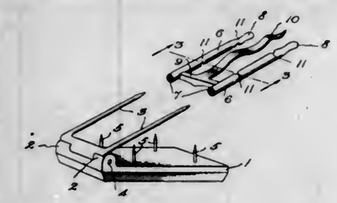
2,285,050
COMBINED MOTOR AND PUMP
Albert R. Pezzillo, Philadelphia, Pa.
Application June 19, 1940, Serial No. 341,294
11 Claims. (Cl. 103—87)



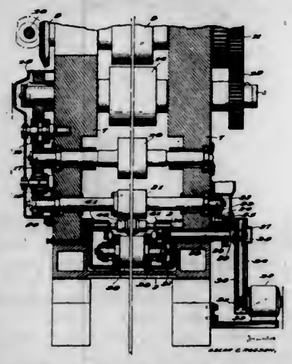
3. In a fluid impelling or impelled device, end casing members having an inlet and an outlet, a cylinder sealed with said members to form an inner casing, a tubular rotor in said casing, a shaft carried by said end members and having bearings, an impeller rotatable on said bearings and fixed to said rotor, an outer housing having an inlet and an outlet, and means to yieldingly support said casing within said housing.

2,285,051
BROOCH ACCESSORY
Albert J. Pujol, New York, N. Y., assignor to Cartier, Inc., New York, N. Y., a corporation of New York
Application February 17, 1942, Serial No. 431,211
3 Claims. (Cl. 63—1)

1. A brooch having a foundation with parallel pins pivotally mounted on said foundation, a pair of sheaths adapted to receive and embrace said pins, a yoke connecting said sheaths, and at least one tongue mounted on said yoke and extending in substantially the same direction as the sheaths.



2,285,052
VARIABLE FOUNTAIN INK SUPPLY FOR PRESSES
Oscar C. Roesen, Scarsdale, N. Y., assignor to Wood Newspaper Machinery Corporation, Plainfield, N. J., a corporation of Virginia
Application July 11, 1941, Serial No. 402,010
15 Claims. (Cl. 101—350)



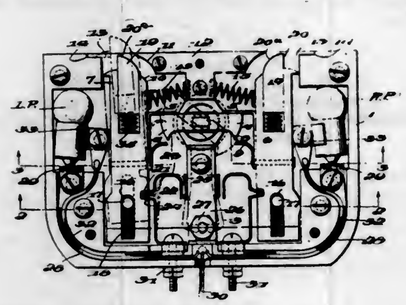
1. The combination with an ink drum, a fountain roll and a ductor roll therebetween, of means for varying the contact of the ductor roll with the ink drum comprising a variable speed transmission unit, gearing from the ink drum to the said unit, gearing from the unit to the fountain roll, means for actuating the ductor roll from the fountain roll and means for varying the ratio of speed through the said transmission unit.

2,285,053
METHOD OF CEMENTING ALUMINUM TO CELLULOSIC MATERIAL
Floricel A. Rojas, New York, N. Y., assignor of one-half to Walter H. Liebman, Jr., New York, N. Y.
Application January 15, 1937, Serial No. 120,697
Renewed July 27, 1940
10 Claims. (Cl. 154—40)



1. The method of cementing sheet aluminum to a sheet of cellulosic material which comprises subjecting the aluminum sheet to an elevated temperature at which occluded gases are expelled, uniting such sheet with a sheet of cellulosic material by means of a sodium silicate cement, and applying heat and pressure to the joined sheets until a firm bond therebetween is established.

2,285,054
DIRECTIONAL SIGNAL FOR AUTOMOBILES AND THE LIKE
James A. Rook and Clay H. Rook, Los Angeles, Calif.
Application February 1, 1939, Serial No. 254,098
6 Claims. (Cl. 200—59)



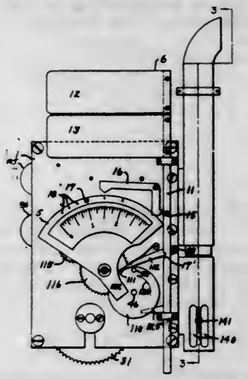
1. A switch comprising a casing, a fixed contact in said casing, a movable contact in said casing cooperating with said fixed contact, a projection on said movable contact, a slide in said casing mounted for longitudinal and pivotal movement, said slide engaging said projection to force said movable contact against said fixed contact when said slide is moved longitudinally, cooperating means on said slide and casing for latching said slide when the contacts are in engagement, and cooperating means, on said slide and casing for urging the parts to latching position.

2,285,055
DISPENSING CABINET
Arthur E. Rozin and Harry R. Rozin, Cincinnati, Ohio
Application August 19, 1940, Serial No. 353,230
13 Claims. (Cl. 312—50)



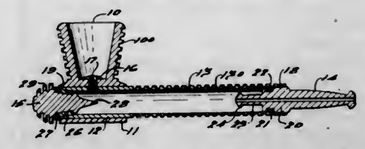
1. In a dispensing mechanism of the class described the combination of a cabinet, a removable front for the cabinet, means within said cabinet adapted to support a plurality of toilet seat covers, each of said covers having a flap intermediate its border, means within said cabinet for separating the flaps from the body portions of said covers, and said cabinet front having an opening through which said covers may be individually obtained.

2,285,056
PARKING METER
Walter Ruska, Houston, Tex., assignor, by mesne assignments, of forty per cent to Vehicular Parking, Ltd., Washington, D. C., a corporation of Delaware
Application November 28, 1938, Serial No. 242,801
4 Claims. (Cl. 194—19)



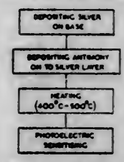
4. In a device of the class described the combination of, a time interval indicator, timing mechanism for driving said indicator at a predetermined rate in one direction, printing dials driven by said mechanism, setting mechanism including a shaft and camming disc thereon for moving the indicator in the opposite direction to an initial indicating position, a power unit for driving both of said mechanisms, coin released means normally restraining the rotation of said shaft, and means operable by said shaft for moving a ticket into engagement with said printing dials to print upon the ticket the time of setting the time interval indicator.

2,285,057
SMOKER'S PIPE
Alfred R. Russell, Grosse Pointe, Mich.
Application October 4, 1941, Serial No. 413,598
1 Claim. (Cl. 131—194)



A smoker's pipe comprising a unitary bowl and base member, a stem telescoped through said base member, anchorage means extending from the bottom of said bowl through said stem fixing said stem relative to said bowl and having a jet aperture therethrough through which smoke from said bowl enters said stem, a mouthpiece at one end of said stem, and an exteriorly finned and inwardly pointed heat absorbing and dissipating element of considerable mass at the other end of said stem, said heat absorbing and dissipating element being located substantially entirely forwardly of said jet aperture and insulated from said stem and having its inwardly projecting point spaced from the walls of said stem and located below said jet, whereby to remove heat from smoke entering said stem at the point of entry and provide relatively cooler smoking conditions.

2,285,058
METHOD OF MANUFACTURING MOSAIC ELECTRODES
Kurt Arthur Richard Samson, London, England, assignor, by mesne assignments, to Cinema-Television Limited, London, England, a British corporation
Application June 12, 1940, Serial No. 340,047
In Great Britain July 24, 1939
12 Claims. (Cl. 250—167)

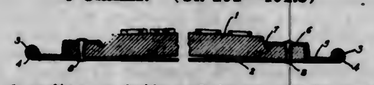


1. A method of manufacturing a mosaic electrode which comprises evaporating more than one metal onto a supporting member forming thereby a composite layer of different metals, and breaking up the entire composite layer thus formed into a mosaic by heating it in vacuo.

2,285,059
PROCESS FOR PREPARING ALDEHYDES
John T. Scanlan and Daniel Swern, Washington, D. C., assignors to Henry A. Wallace, as Secretary of Agriculture of the United States of America, and to his successors in office
No Drawing. Application November 2, 1939, Serial No. 302,602
2 Claims. (Cl. 260—601)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

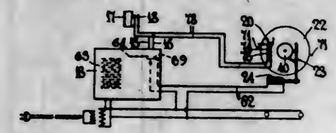
1. The process for preparing aldehydes, which comprises reacting unsaturated higher fatty acids containing substantially eighteen carbon atoms and an ethylenic linkage, and esters of such acids wherein the acid radical is linked to one of a group consisting of ethyl and glyceryl with a mixture of glacial acetic acid and 30% hydrogen peroxide solution, which mixture has been previously heated for substantially one hour at a temperature ranging from 80° C.–85° C. and cooled to substantially 25° C.; permitting the ensuing exothermic reaction to go to completion with occasional agitation and without the application of heat; then adding to the reaction mixture sufficient glacial acetic acid so that the total quantity present is sufficient to react with the red lead subsequently added; then maintaining the diluted mixture at a temperature ranging from 55° C.–65° C. and treating it with substantially one molecular weight of red lead for each alpha-glycol linkage present; and, then subjecting the mixture to the action of steam distillation, thereby separating the volatile and non-volatile aldehydes produced.

2,285,060
FLEXIBLE PRINTING PLATE
Julius Schmutz, Louisville, Ky., assignor to Schmutz Manufacturing Co., Louisville, Ky., a corporation of Kentucky
Application March 16, 1940, Serial No. 324,350
9 Claims. (Cl. 101—401.3)



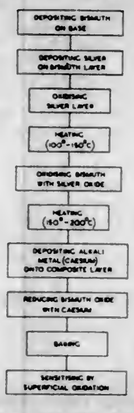
1. A unitary printing plate comprising: a flexible unitary backing member presenting a face portion and opposed end portions; a flexible type-bearing member presenting corresponding face and end portions; and means mechanically connecting the corresponding end portions of these members rigidly together, their corresponding face portions cooperating to define a make-ready space between members; said backing member being operative, when flexed outwardly against the type-bearing member, to tension the latter.

2,285,061
COIN-CONTROLLED MACHINE
Montgomery Shoemaker, Alfred, N. Y.
Application February 16, 1939, Serial No. 256,754
12 Claims. (Cl. 194—15)



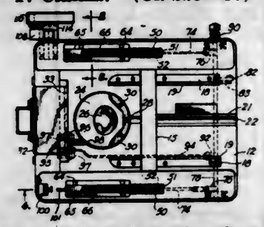
12. In a coin-controlled phonograph having automatic operating means and an electrical initiating circuit therefor having switch means adapted to be closed by coin-controlled mechanism, an auxiliary initiating circuit and switch means therein for establishing said initiating circuit, means acted upon by said automatic operating means and thereby rendered effective to engage and close said second switch means at the conclusion of a predetermined number of playing cycles to accomplish an additional playing cycle through said auxiliary initiating circuit.

2,285,062
PHOTOELECTRICALLY SENSITIVE ELECTRODE
Alfred Sommer, London, England, assignor, by mesne assignments, to Cinema-Television Limited, London, England, a British corporation
Application May 9, 1940, Serial No. 334,160
In Great Britain July 20, 1939
7 Claims. (Cl. 250—165)



1. A method of manufacturing a photoelectrically sensitive surface which consists in depositing upon a supporting surface a layer of bismuth, depositing upon said bismuth layer a layer of silver, oxidising the silver, heating the composite bismuth-silver oxide layer so that the bismuth is oxidized, and finally depositing an alkali metal on said composite layer so that the bismuth oxide is reduced to bismuth.

2,285,063
GARMENT FOLDING APPARATUS
James W. Steele, North Kansas City, Mo.
Application September 7, 1940, Serial No. 355,751
17 Claims. (Cl. 223—37)



1. Apparatus of the character described, comprising a table for accommodating a garment in the final finishing and folding operations, means for accommodating a supply of wrapping bands in position to be applied to the finished and folded garment, and a band-creasing member permanently mounted on said table adjacent to one end of the band supply and operative to spread and facilitate separating of the bands between successive operations of the apparatus.

2,285,064
DRESS FORM AND PROCESS OF MAKING THE SAME
Harry H. Straw, Boston, Mass., assignor to Beckwith Manufacturing Company, Dover, N. H., a corporation of New Hampshire
Application April 3, 1940, Serial No. 327,645
14 Claims. (Cl. 223—68)

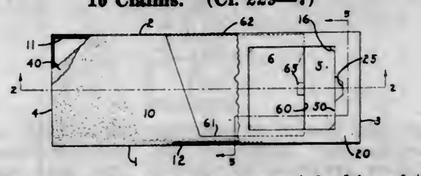


1. The process of making dress forms, which consists in providing a model with a close-fitting undergarment, heating flat panels of sheet thermoplastic material to render them plastic and adhesive, coating the heated panels with a soap solution, applying and conforming the heated and plastic panels one by one with overlapping edges to the model, the panels hardening in conformed shape and temporarily adhering to the undergarment, match marking the panels while thus held in place, removing the conformed and hardened panels, reassembling them off the model in accordance with the match marking, fusing them together in their original overlapped relation, and coating the form thus produced with a heat resisting film.

2,285,065
PROCESS OF MAKING EDIBLE BAKED PRODUCTS
Walter A. Taylor, Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 17, 1938, Serial No. 246,250
4 Claims. (Cl. 99—90)

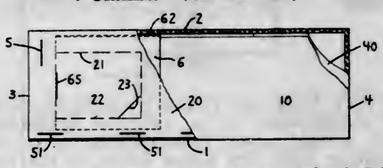
3. A process of preparing bread having flour and water as the principal ingredients comprising the steps of preparing a dough of flour, water, yeast and other bread ingredients and incorporating therein sorbitol in a proportion sufficient to inhibit substantially the tendency of the bread to become stale on storage after baking but insufficient to alter the normal taste of the bread, allowing the dough to rise, and baking the risen dough.

2,285,066
CARTON AND CLOSURE THEREFOR
Robert G. Thompson, Seattle, Wash.
Application October 4, 1939, Serial No. 297,826
10 Claims. (Cl. 229—7)



1. A carton having at least two tabs hinged to and infolded from the upper edges of two sides, into overlapping relationship, said tabs having registering apertures affording access to the interior of the carton, a thin slide, of a size to close the apertures, interposed between the overlapped tabs, the tabs being joined to each other along the free edge of the topmost tab, and a flange downwardly directed along the opposite edge of the slide, the slide being of a width to extend from the hinged edge of the topmost tab, towards but not to the hinge of the other tab, and the underlapped tab having an edge disposed closely adjacent the hinged edge of the topmost tab, to confine the flange closely therebetween, and to constitute the only rectilinear guide for the slide.

2,285,067
RECLOSURE CARTON
Robert G. Thompson, Seattle, Wash.
Application January 2, 1940, Serial No. 312,040
7 Claims. (Cl. 229—17)

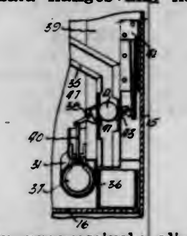


1. A carton having at least two tabs infolded from the upper edges of its sides into, and secured in, overlapped relation, the upper tab being perforated to define a potential opening in the carton's top, closed by a tear-out closure, and the lower tab having a registering opening, a thin slide disposed between the two tabs, of a size and shape to close such opening, in direct contact with and guided only between the two tabs for opening and closing movement across the opening, after removal of the tear-out closure, and means upstanding from the slide, and penetrating the upper tab to engage with the tear-out closure, to hold the slide positively in position to close the opening so long as the tear-out closure remains in place.

2,285,068
VENDING MACHINE
Wilford E. Titus, Dallas, Tex.
Application February 9, 1939, Serial No. 255,375
1 Claim. (Cl. 312—88)

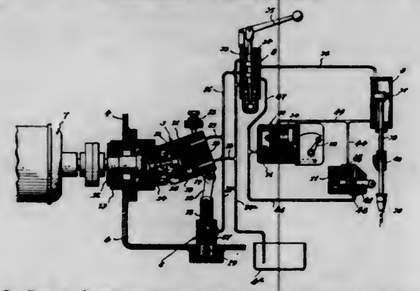
In a vending machine, a rotatable body carry-

ing relatively spaced and parallel flanges defining circular, parallel merchandise chambers, rods extending transversely through said flanges adjacent their inner and outer peripheries to define radial merchandise compartments, a semi-circular, stationary member snugly embracing the lower half of said flanges and having stepped



openings therein progressively alined with said merchandise chambers and through which articles gravitate successively from said compartments and progressively from said chambers as said body is rotated, and a common discharge chute for said openings for delivering merchandise from said machine.

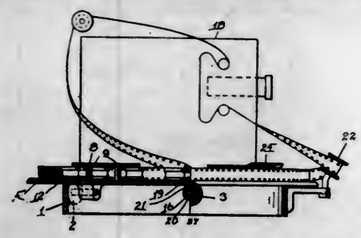
2,285,069
HYDRAULIC FEED CONTROL SYSTEM
Harry F. Vickers, Detroit, Mich., assignor to Vickers, Incorporated, Detroit, Mich., a corporation of Michigan
Application September 29, 1937, Serial No. 166,298
2 Claims. (Cl. 60—52)



2. In a hydraulic power transmission system the combination of a variable displacement pump, a fluid motor, conduits forming a circuit extending from the pump outlet to the motor and from the motor to the pump inlet, means forming a predetermined restriction in said conduits, valve means responsive solely to the pressure differential across said restriction and connected to maintain such differential substantially constant, and means responsive to slight variations in pump outlet pressure for controlling the pump displacement comprising a spring pressed piston arranged to put said pump on-stroke, and means connecting the pressure on the outlet side of the pump between the pump and the motor to said spring pressed piston to act in opposition to the spring, said means coacting together to maintain the motor speed substantially constant independently of variations in motor load and of variations in pump slippage.

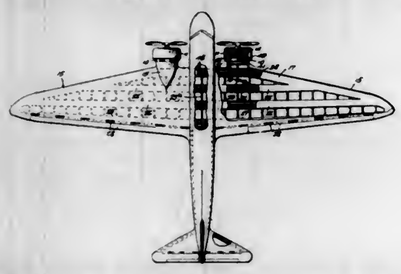
2,285,070
REWIND MECHANISM
Carl M. Weber, Rochester, N. Y.
Application February 19, 1940, Serial No. 319,669
3 Claims. (Cl. 88—18.7)

2. A rewind mechanism for endless motion picture film comprising a circular stationary base adapted for the support of a projection apparatus, supporting rollers rotatably mounted on the outside of said base, a ring shaped turn table supported on said rollers for normally rotative movement and slightly lateral adjusting movement on said rollers, one of said rollers being



positively driven for movement of said turn table, and guide rollers concentrically arranged on the outer edge of said base so as to overhang the inner edge of said turn table for sole contact with the inside of the film roll supported on the turn table and guidance of the turn table thru the film roll.

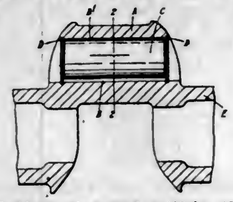
2,285,071
AIRPLANE EQUIPPED TO HEAT THE WINGS
Franklyn J. Wolff, Trenton, N. J.
Application April 5, 1940, Serial No. 328,125
8 Claims. (Cl. 244—134)



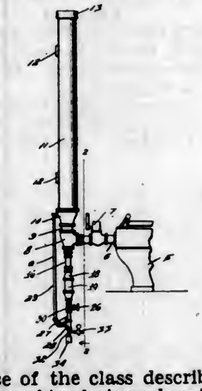
1. The combination with an airplane having a hollow wing, a motor nacelle mounted on the wing, a motor carried in the motor nacelle and a cowl around the motor and provided at the rear thereof with gills, of a wall mounted in the nacelle in rear of the motor and provided with ports, dampers movable into and out of positions of closure for said gills, other dampers synchronized with the first dampers and movable into and out of positions of closure for said ports, the gill dampers being open when the port dampers are closed, and means operatively connected with said dampers for actuation of the same, the interior wing space being in communication with said ported wall.

2,285,072
MEANS FOR DAMPING VIBRATIONS IN RECIPROCATING ENGINES
Richard Zdanowich, London, England, assignor to D. Napier & Son Limited, London, England, a company of Great Britain
Application July 2, 1941, Serial No. 400,855
In Great Britain June 21, 1940
16 Claims. (Cl. 74—604)

1. In means for damping vibrations in crankshafts, the combination of a crank pin having a hollow in this crank pin in which is a surface constituting a track, and a body which is a figure of revolution disposed within the crank pin and free to roll on the track therein.

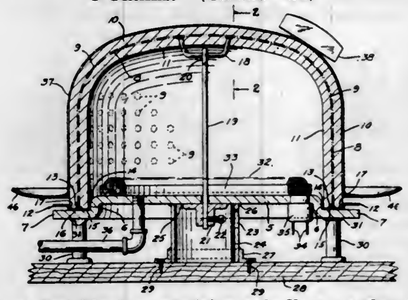


2,285,073
WATER CLOSET FLUSHING APPARATUS
David Zimmerman, Kansas City, Mo., assignor to Rita Zimmerman, Kansas City, Mo.
Application February 12, 1941, Serial No. 378,622
6 Claims. (Cl. 4—26)



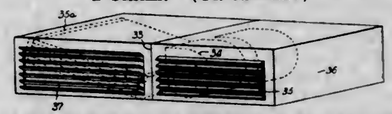
1. In a device of the class described, a vertically arranged combined air and water chamber, an outlet conduit connected with the lower end of the chamber, a supply pipe and a gooseneck pipe connected with the supply pipe and extending upwardly into the chamber with the bight of the gooseneck located adjacent the top of the chamber, that part of the gooseneck pipe located within the chamber having perforations therein for permitting water to flow from the gooseneck pipe into the chamber above the water level in the chamber, whereby the incoming water will not interfere with the water flowing from the chamber.

2,285,074
HAT BLOCK
John Auer, East Norwalk, Conn.
Application August 1, 1939, Serial No. 287,688
8 Claims. (Cl. 223—24)



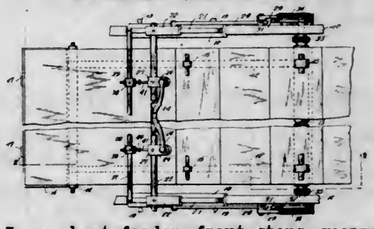
1. A hat block comprising a hollow, perforated sheet metal member, a layer of moisture absorbent baked clay covering the surface of said member and forming a support for the hat to be blocked, and means for producing a suction within the hollow member.

2,285,075
AIR CONDITIONING APPARATUS
Carlyle M. Ashley and James Swinburne, Syracuse, N. Y., assignors to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware
Original application June 17, 1936, Serial No. 85,642. Divided and this application April 5, 1939, Serial No. 266,052
1 Claim. (Cl. 62—117)



In a combination of apparatus for air-conditioning a railroad car, a condensing unit, a mounting beneath a railroad car, said condensing unit being mounted on said mounting, a casing housing said condensing unit, said casing having two openings comprising an air inlet and an air outlet side by side and parallel with a side of the car for admitting air into said casing and discharging air from the casing, louvers in said openings, said louvers being horizontal and parallel with the path of movement of the car, a blower within the casing for circulating air through the casing over said condensing unit in a course through said louvers serving said inlet and outlet, means in combination with the inlet for assuring an adequate supply of fresh outdoor air for cooling said condensing unit, said louvers being arranged in combination with said inlet and outlet and positioned at differing angles whereby air substantially in the same volumes will be admitted to the casing regardless of the direction of movement of the car in a course preventing short-circuiting to the air inlet of air discharged from the air outlet.

2,285,076
SHEET FEEDER
Headley Townsend Backhouse, London, England
Application August 1, 1940, Serial No. 349,325
In Great Britain August 11, 1939
8 Claims. (Cl. 271—46)



1. In a sheet feeder, front stops, means for advancing a stream of underlapped sheets toward said stops, and means for slowing down each sheet in turn as it approaches said stops comprising suction means arranged and operated to seize the upper surface of the rear portion only of each sheet and moving in the direction of sheet travel only to slow the sheet down to a speed slower than the speed of the next succeeding sheet of the stream, and to release the sheet before its forward edge strikes said stops whereby the sheet is thereafter free to be front and side registered.

2,285,077
VULCANIZATION ACCELERATOR
David J. Beaver, Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application July 23, 1937, Serial No. 155,267
18 Claims. (Cl. 260—786)

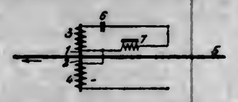
1. The process of vulcanizing rubber which comprises heating rubber and sulfur in the presence of a product obtained by initially combining a saturated alkyl ether wherein the saturated alkyl group contains a halogen substituent, the other substituent on the ether oxygen being a hydrocarbon group with a heterocyclic base wherein the heterocyclic ring consists of carbon and tertiary nitrogen atoms, said base being free of other than hydrocarbon substituents and condensing therewith an aryl thiazole containing an S—X group in the 2-position, X being selected from a group consisting of hydrogen and alkali metal in an amount equivalent to the halogen content of the ether-base combination.

2,285,078
SLIDING CAR DOOR
Wilfred A. Beauchamp, Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a corporation of Ohio
Application January 4, 1940, Serial No. 312,405
5 Claims. (Cl. 20—26)



1. In a railway house car having a door opening and a sliding door, weatherstripping secured to said car around said door opening, said weatherstripping comprising a plurality of plies of flexible non-metallic material extending progressively increasing distances beyond said door opening, said door moving substantially at a right angle to said weatherstripping, said door in closing engaging and spreading apart said plies to provide a plurality of pockets for the purpose set forth.

2,285,079
ELECTROMAGNETIC SOUND-REPRODUCING DEVICE
Günther Behre, Berlin, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application March 29, 1940, Serial No. 326,601
In Germany March 7, 1939
3 Claims. (Cl. 179—100.2)



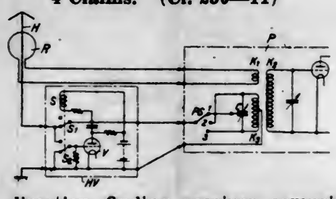
1. In a sound reproducing device for magnetic sound carriers, a pick-up comprising at least two opposed poles, and means including a filter circuit for rendering part of said pick-up effective to reproduce only low frequencies.

2,285,080
LOCK NUT
Joseph M. Berge, Detroit, Mich., assignor to Eugene D. Williamson, Detroit, Mich.
Application December 16, 1941, Serial No. 423,152
3 Claims. (Cl. 151—19)



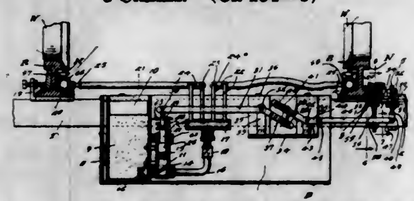
1. In a combined nut and lock nut of the frangible type formed from a single nut comprising a nut having slightly axially spaced inner and outer circumferential grooves therein cut to a radial depth to bring the walls of the nut at the base of said grooves substantially in axial alignment, the inner circumferential groove being axially wider than the outer circumferential groove.

2,285,081
DIRECTION FINDING RECEIVER
Hans Berthold, Berlin, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application November 9, 1939, Serial No. 303,513
In Germany November 9, 1938
4 Claims. (Cl. 250—11)



1. A direction finding receiver comprising a radio receiver, a bi-directional antenna and an auxiliary non-directional antenna for this receiver, an aperiodic amplifier for such auxiliary antenna, a change over switch movable into different positions for connection of said auxiliary antenna corresponding to null finding and sensing operations, switching means for interconnecting said auxiliary antenna and receiver directly responsive to the setting of said switch into a position corresponding to null finding, and means for connecting said amplifier between said auxiliary antenna and receiver responsive to the setting of said switch into a position corresponding to sensing.

2,285,082
TRACK LUBRICATOR
Malon C. Bolt, Radford, Va., assignor of forty-nine one-hundredths to Cisby M. Jennelle, Radford, Va.
Application May 21, 1940, Serial No. 336,481
8 Claims. (Cl. 184—3)



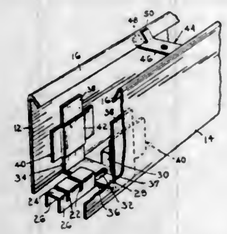
1. In combination with a trackway including a rail having a portion normally upwardly flexed, said portion of the rail being depressed by wheels of a train passing thereover, a member arranged to direct lubricant in the general direction of the throat of a flanged car wheel travelling along the trackway, means operated by depression of the rail for forcing the lubricant from said member, a flange mounted to one side of the normally upwardly flexed portion of the rail and overlying the flange of the rail and a vertically adjustable stop member carried by said flange and contacting from above the flange of the upwardly flexed portion of the rail to limit the extent of said upward flexure.

2,285,083
TWO-WAY RADIO GARMENT
Berkey E. Cover, Sr., Chicago, Ill., assignor, by mesne assignments, to Electra-Voice Corporation, Wilmington, Del., a corporation of Delaware
Application March 30, 1940, Serial No. 326,850
7 Claims. (Cl. 250—13)



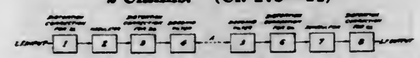
1. A garment in the form of a coat having compartments, an ear phone mounted on the collar of the coat, a microphone on the sleeve of the coat, a transmitting and receiving equipment mounted in the compartments and within the coat and having electrical connections to the ear-phone and microphone, a protective conduit mounted in the garment and containing conductors between the equipment including the ear phone and microphone and means for securing said conduit in position.

2,285,084
METAL BASE FOR BUILDING WALLS
William M. Goldsmith, Cincinnati, Ohio
Application September 8, 1939, Serial No. 293,918
19 Claims. (Cl. 72—46)



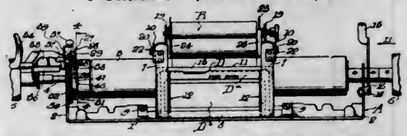
1. A metal base for a partition or other building wall, comprising a side wall, lath-stud holding means disposed adjacent said side wall, means secured to the inner surface of said side wall and forming a socket therewith, and means fixed to said stud-holding means and projecting into said socket in engagement with said side wall, with the inner surface of said socket-forming means and with the ends of the socket whereby to prevent movement of said stud-holding means longitudinally and laterally of said side wall, for securing said lath-stud holding means to said side wall.

2,285,085
CARRIER FREQUENCY APPARATUS
Wolfgang Hagen, Berlin, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application January 11, 1941, Serial No. 374,103
In Germany January 3, 1940
2 Claims. (Cl. 178—44)



1. A transmitting terminal for a carrier wave signaling system comprising a low frequency signal wave input, a modulator for modulating a carrier wave with said low frequency signal waves, a filter for selecting from the modulation products an inverted side-band, a correcting network inserted between said low frequency signal wave input and said modulator for compensating for distortion introduced by said filter at the low frequency end of the signal frequency band, and a further correcting network inserted between said modulator and said filter for compensating for distortion introduced by said filter at the high frequency end of the signal frequency band.

2,285,086
TYPEWRITING MACHINE
George F. Handley, Glendale, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a corporation of New York
Application January 3, 1941, Serial No. 373,023
6 Claims. (Cl. 197—135)

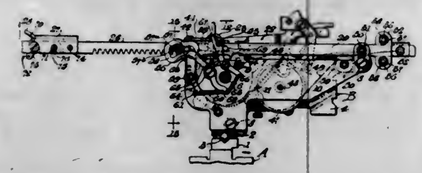


3. In a stencil card typing machine, a platen; a card holder mounted in cooperative relation to said platen for line-spacing movements; a line-spacing ratchet wheel; driving connections between said ratchet wheel and said card holder; a line-spacing lever; a pawl operable by said lever and engageable with said ratchet wheel for rotating the latter and line-spacing the card holder; a shield rockably mounted with respect to said ratchet wheel and encompassing a portion of the periphery of said ratchet wheel and being engageable by said pawl for maintaining the pawl out of engagement with said ratchet wheel to variably control the amount of angular movement of said ratchet wheel and the amount of line-spacing movement of said card holder effected by an operating stroke of said line-spacing lever; stop means for limiting rocking movement of said shield in opposite directions; and a click type detent interposed between said ratchet wheel and said shield for causing said shield to be rocked semi-positively in opposite directions respectively dependent upon the direction of movement of said ratchet wheel.

2,285,087
TYPEWRITING MACHINE
George F. Handley, Glendale, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a corporation of New York
Application February 5, 1941, Serial No. 377,570
24 Claims. (Cl. 197—114)

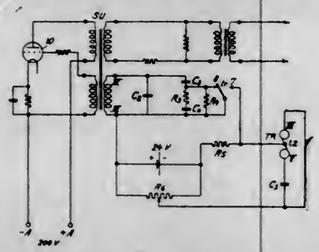
19. In a typewriting or the like machine, the combination of a rotatable sheet-feeding cylinder; means for rotating the cylinder including a manually operable handle mounted to per-

form sheet-feeding strokes in one direction and idling return strokes in the opposite direction; means for determining the limit of said strokes in one of said directions; and a device for determining selectively a plurality of different lim-



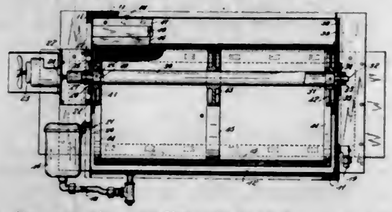
its of the strokes in the other of said directions, said device being adjustably mounted on said handle and being thereby conveniently adjustable by the operator's hand when it is grasping said handle.

2,285,088
ELECTRIC IMPULSE GENERATOR
Robert Helmert, Berlin, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application July 29, 1939, Serial No. 287,197
In Germany July 30, 1938
4 Claims. (Cl. 250—36)



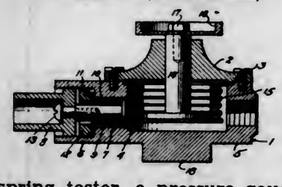
1. A signal generating arrangement for alternately emitting two signal frequencies at a predetermined rate comprising a tone generator, a tuned circuit associated therewith having a plurality of component elements, and means for changing the effective value of said circuit comprising a relay having two windings. an armature and a pair of contacts, one end of each of said windings being connected at a common point and the other ends of said windings being separate, a resistance connected to said common point, a source of voltage, a voltage divider having first and second end terminals and an intermediate tap connected across said source to divide the voltage of said source into a first component voltage between said first end terminal and said intermediate tap, and a second component voltage between said intermediate tap and said second end terminal, means for connecting said intermediate tap to the separate end of one of said windings and for connecting said first end terminal to said resistance whereby said first component voltage is applied in series with said resistance across said one of said windings, means for connecting said second end terminal to said armature, means for connecting one of said contacts to said common point, means for connecting the other of said contacts to an intermediate point of said tuned circuit, and a time delay circuit connected between the separate end of the other of said windings and said voltage divider.

2,285,089
RESATURATION COOLER
Frank R. Higley, Cleveland Heights, Ohio, assignor to The Bryant Heater Company, Cleveland, Ohio, a corporation of Ohio
Application January 27, 1940, Serial No. 315,974
10 Claims. (Cl. 261—92)



1. In an air conditioning system, apparatus for cooling dehumidified air comprising a water pan, a drum mounted to turn upon a horizontal axis, said drum being positioned above and depending into said water pan, the cylindrical portion of said drum being foraminous and adapted to carry moisture upward out of said water pan, means circular in cross section and of smaller diameter than the drum arranged interiorly thereof upon which the ends of the drum hang and by means of which it is driven, and means for directing the air to be cooled through the side walls of said drum, whereby the air is caused to give up heat for the evaporation of moisture on the drum.

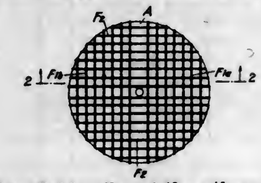
2,285,090
SPRING TESTER
Gies W. Hiley, Smithboro, N. Y.; Goldie E. Hiley administratrix of said Gies W. Hiley, deceased
Application November 20, 1939, Serial No. 305,366
1 Claim. (Cl. 265—14)



In a spring tester, a pressure gauge, a body having a cavity and a radially disposed boss provided with a bore communicating with the cavity, a liquid tight bellows positioned in said bore, means carried by the boss for adjusting said bellows to modify the capacity of the cavity, a second liquid tight bellows having an annular flange around an open end, a top adapted to seat on the body over the second bellows flange to seal the cavity with said bellows positioned therein, said top having a centrally positioned bore, means securing the top to the body, a spring centering cup having a stem slidable in the bore and engaging the bottom of the bellows and means for communicating the cavity with the pressure gauge whereby a liquid filling said cavity around the bellows therein will transmit variations in expansion of said bellows to the gauge.

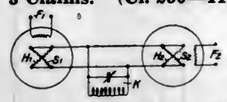
2,285,091
GONIOMETER
Karl-Georg Holsten, Berlin, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application January 16, 1941, Serial No. 374,651
In Germany January 16, 1940
1 Claim. (Cl. 250—11)

A goniometer field coil arrangement comprising a pair of angularly related field coils wound on a former, one of said field coils being divided into two substantially equal parts, one of said parts being wound on said former inside the winding



of the other field coil and the other of said parts being wound outside the windings of said other field coil whereby, said field coils enclose substantially the same volume.

2,285,092
GONIOMETER
Karl-Georg Holsten, Berlin, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application January 16, 1941, Serial No. 374,653
In Germany January 25, 1940
3 Claims. (Cl. 250—11)



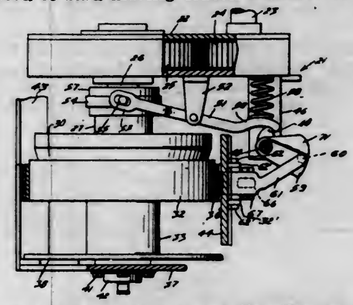
1. A goniometer comprising a field coil and a search coil, these two constituting a goniometer component, a second field coil offset at right angles with respect to the former field coil, and a second search coil, such second field coil and search coil constituting a second goniometer component two auxiliary coils connected in circuit with each other, one of these coils being arranged perpendicularly to one of the search coils and the other auxiliary coil being arranged perpendicularly to the other search coil, the two search coils being connected in circuit with one another and having shafts coupled together.

2,285,093
MIXTURE OF MATERIALS AND METHOD OF MAKING
Vaman R. Kokatnur, Beechhurst, N. Y.
No Drawing. Application October 28, 1939, Serial No. 301,732
7 Claims. (Cl. 252—1)

1. In making a mixture of two inorganic water-soluble crystalloid materials, the method which comprises forming a solution of the two materials in water, dispersing the solution in a liquid that is volatile at the temperature of boiling of the solution, immiscible therewith, and substantially a non-solvent for the said materials, and then evaporating said liquid and water from the dispersion.

2,285,094
POWER TRANSMISSION FOR BULLDOZERS
Charles Edwin Rohn, Sacramento, Calif., assignor of ninety per cent to Inez Rohn, Sacramento, Calif.
Application March 7, 1941, Serial No. 382,235
1 Claim. (Cl. 254—187)

In an apparatus of the class described, a driven reel shaft, a reel freely rotatable on the reel shaft and embodying a driven clutch member forming a brake drum, a driving clutch member splined on the driven shaft for shifting into and from engagement with the driven clutch member, a brake band trained around said drum and having opposed fixed and movable ends the movable end for drawing toward the fixed end to tighten the band against said drum, and means to shift said driven clutch member into engagement and tighten said band comprising a manually operative control shaft rotatably mounted, a cam on said control shaft, a pivoted clutch shifting lever having one end operatively connected to said driving clutch member to shift

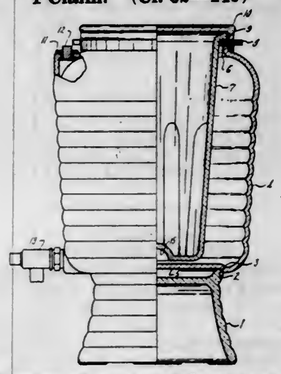


the same and a curved cam on its other end engaging said first cam, a cam plate fast on said control shaft and having a flat face and an adjoining inclined face, a band tightening arm pivotally mounted adjacent the fixed end of the band and operatively connected to the movable end thereof, said arm extending across said plate, and a ball mounted on said arm and riding on the plate.

2,285,095
HOT MELT COATING
David A. Rothrock and Harold C. Cheetham, Philadelphia, Pa., assignors to The Resinous Products & Chemical Company, Philadelphia, Pa.
No Drawing. Application April 7, 1939, Serial No. 266,541
3 Claims. (Cl. 117—155)

1. Paper having on at least one side thereof a coating comprising a thermoplastic resin made from a dihydric dinuclear hydroaromatic alcohol blended with ethyl cellulose, a wax and a plasticizer.

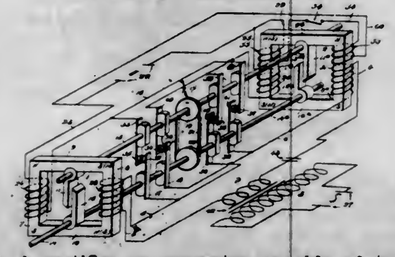
2,285,096
COMBINATION BEVERAGE DISPENSER AND ICE JAR
George D. Sailer and Louis Poglein, Jeannette, Pa., assignors to McKee Glass Company, Jeannette, Pa., a corporation of Pennsylvania
Application March 14, 1941, Serial No. 383,306
1 Claim. (Cl. 62—149)



In a beverage dispenser, a beverage container,

an ice jar disposed in said container and extending to substantially the bottom thereof, said ice jar having a fluted wall extending from the bottom a substantial distance vertically thereof and having a transverse flute on the bottom to agitate the liquid in the beverage container when the ice jar is oscillated.

2,285,097
ELECTRIC RECTIFIER OR CONVERTER
Karl Hermann Schmidt, London, England
Application November 13, 1939, Serial No. 304,168
In Great Britain November 16, 1938
17 Claims. (Cl. 175—365)



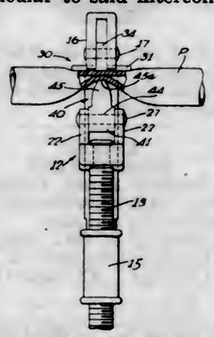
1. A rectifier or converter capable of transforming direct current or pulsating uni-directional current into alternating current or vice versa, comprising two pairs of displaceable contact-carrying elements, each pair being controlled from an electro-magnetic device which includes a winding associated with the direct current circuit and a winding associated with the alternating current circuit, each such winding being arranged to influence magnetically a displaceable magnetic armature so that when the electro-magnetic device is in operation such armatures will be attracted to one another, the several armatures directly or indirectly serving to operate the contact-carrying elements in such manner as to produce closing and opening of the circuit or circuits controlled by said elements.

2,285,098
METHOD OF MAKING FIBER PLASTER PRODUCTS
Eugene P. Schoch and William A. Cunningham, Austin, Tex.
No Drawing. Application March 7, 1941, Serial No. 382,234
8 Claims. (Cl. 18—48)

7. The process of making fiber reinforced plaster products which comprises cooking gypsum in a concentrated magnesium sulfate solution at a temperature greater than 100° C.; filtering and washing the resultant plaster from the solution to remove the soluble salts; adding fiber to the thus produced damp plaster; and molding the fibered mass into desired shapes, the plaster during said filtering, washing, and addition of the fiber being maintained at a temperature of at least 80° C. to prevent its setting prior to its molding.

2,285,099
WATER MAIN LOCK
Rudolph Specht, Jamaica, N. Y.
Application February 3, 1940, Serial No. 317,121
1 Claim. (Cl. 81—15)

A tool of the character described comprising a yoke having a pair of arms and an interconnecting portion, one arm having an internally screw threaded tubular portion, a screw screwed within said tubular portion and having a handle at one end, said interconnecting portion being formed with longitudinal ribs, a bracket having a pair of walls formed with grooves slidably receiving said ribs, said bracket having a pair of walls formed with aligned openings carrying parallel transverse pins, a lower upwardly and inwardly tapered locking element received between the walls of said bracket and formed with parallel through openings receiving said pins, said lower lock element having a straight upper edge perpendicular to said interconnecting por-



tion, the other arm of said yoke comprising parallel wall portions formed with aligned openings carrying a transverse pin, and an upper lock element having a web received between the parallel wall portions of said last mentioned arm and formed with an opening through which the last mentioned pin passes, said upper lock element having a flat wall perpendicular to said web and engaging the lower edges of the parallel walls of said last mentioned arm, the staight upper edge of said lower locking element being aligned with the web of said upper locking element.

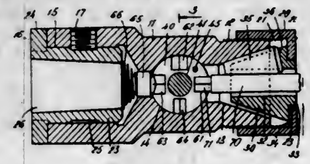
2,285,100
PROCESS FOR REFINING MONTAN WAX
Kurt Stickdorn, Dessau-Rosslau/Anhalt, Germany, assignor, by mesne assignments, to "Unichem" Chemikalien Handels A.-G., Zurich, Switzerland, a corporation of Switzerland
No Drawing. Application June 3, 1939, Serial No. 277,301. In Germany June 4, 1938
11 Claims. (Cl. 260—424)

1. A process for refining crude montan wax without reliance upon bleaching agents which comprises treating a mass consisting essentially only of such wax at an elevated temperature between about 100° to 150° C. with a sulfuric acid purifying agent in a quantity amounting to at least one-quarter of the weight of the montan wax treated and, after action of the agent is complete, separating the montan wax from the impurities present.

2,285,101
CHUCK
Arthur Merrick Stoner, West Hartford, Conn., assignor to The Jacobs Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application March 30, 1940, Serial No. 326,860
8 Claims. (Cl. 279—14)

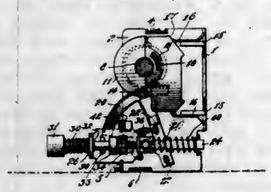
1. In a chuck of the type which comprises a body and elements supported by the body for centering a tool by engaging a shank thereof, a device comprising a pair of cylindrical members rotatable in the body about a transverse axis back

of said elements, corresponding radial tool engaging notches of different sizes in the proximate



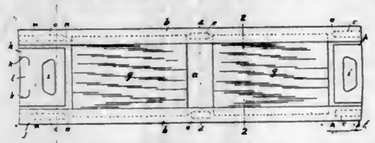
faces of said members, and means adapted to receive a tool for rotating said device to bring said notches into tool engaging position.

2,285,102
MECHANICAL SETTING MECHANISM FOR RADIO TUNING STRUCTURES
John H. Teaf, Westmont, N. J., assignor to Radio Condenser Company, Camden, N. J.
Application April 8, 1940, Serial No. 328,462
19 Claims. (Cl. 74—10)



1. In a radio tuning apparatus including a member adapted to operate a tuning element, a part having an adjustable setting device for acting on said member to move the tuning element, and resiliently-actuated means for holding said device in its adjusted position.

2,285,103
DISPLAY CONTAINER
Howard A. Wolf, Philadelphia, Pa., assignor to Louis Wolf, Elias Wolf, Howard A. Wolf, and Walter L. Wolf, copartners trading and doing business as Wolf Brothers, Philadelphia, Pa.
Application April 19, 1939, Serial No. 268,745
2 Claims. (Cl. 229—87.5)

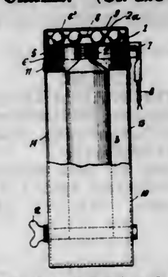


1. A display container comprising a sheet adapted to be folded over on a line intermediate its ends, pockets extending along the side edges of the sheet, extensions from the opposite ends of the sheet adapted to be folded on their lines of juncture with the sheet, said extensions being provided with apertures so positioned that when the sheet is folded on a line intermediate its ends they will align when the extensions are brought together in their normal extension and when folded on their lines of juncture with the sheet, a flap formed by an extension from the end of one of said first mentioned extensions and a tongue formed by slitting said flap, said tongue being positioned with respect to the apertures in said first mentioned extensions so that it may be passed through said apertures when they are brought into alignment.

2,285,104
PRODUCTION OF TITANIUM COMPOUND
David W. Young, Flushing, N. Y., assignor to General Chemical Company, New York, N. Y., a corporation of New York
No Drawing. Application March 29, 1940, Serial No. 326,676
6 Claims. (Cl. 23—202)

1. The method for making titanium oxygen compound which comprises heating halide-acetate of titanium at temperature not less than 800° C. for time interval sufficient to form titanium dioxide product the TiO_2 of which shows X-ray pattern of rutile only, said product being further characterized by (1) taking, when formed in an unrestricted space, a petal-like physical structure of surface area a great many times that of the initial material subjected to heating, and (2) having a fragility such that light rubbing of coalescent particles reduces the product to an impalpable powder.

2,285,105
MASSAGE APPARATUS
Ella Bacher, née Lászlό, Paris, France
Application June 12, 1939, Serial No. 278,721
In France February 2, 1939
2 Claims. (Cl. 128—56)

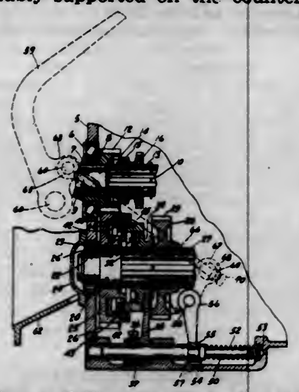


2. In a massage apparatus having a casing, a plurality of rollers for applying a massage medium to which rollers the massage medium is fed and by which the medium is applied, a reservoir for the medium within the casing, and heating means mounted in the casing for heating the medium; spaced walls comprising an inner wall and an outer wall providing a space therebetween substantially coextensive with the said walls and communicating with the said reservoir to provide for feeding the massage medium into the said space and for filling the same between the rollers, the said heating means positioned to heat the casing and the said inner wall, the latter being in heat-conductive communication with the casing, the said outer wall having a plurality of openings substantially uniformly distributed across its face, and the said rollers being supported on the said inner wall upon which the rollers ride and which maintains each roller partially protruding through one of said openings in the outer wall, whereby the heated medium is distributed in the said space to the surfaces of the rollers for application to a surface to be massaged.

2,285,106
TRANSMISSION
Leo A. Bixby, Niles, and Robert Lapsley, Berrien Springs, Mich., assignors to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application September 12, 1938, Serial No. 229,407
20 Claims. (Cl. 192—48)

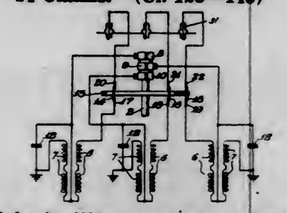
1. The combination, with a clutch and trans-

mission assembly including a clutch pedal, of a countershaft in said transmission having a plurality of gears thereon, one of said gears being rotatably supported on the countershaft, a



shift rail parallelling said countershaft, and spring means engaging said rail and released upon initial engaging movement of said pedal for effecting clutching of said one gear to said countershaft for conjoint rotation therewith.

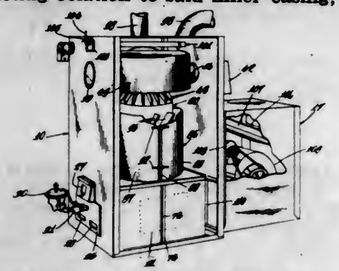
2,285,107
IGNITION APPARATUS
Jakob Bohli, Solothurn, Switzerland, assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 24, 1939, Serial No. 264,002
In Switzerland April 1, 1938
14 Claims. (Cl. 123—148)



1. Multiple ignition apparatus, characterized in that it has a plurality of ignition circuits, each containing at least two coils in series connection, which, being arranged around a joint axis, are induced by the same magnet system, each of said coils including a primary and a secondary winding.

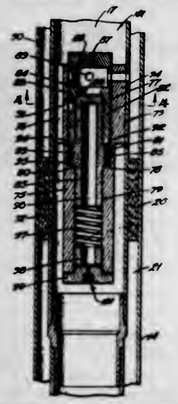
2,285,108
AIR CONDITIONING APPARATUS
Charles L. Bryant, Cleveland, Ohio, assignor to C. L. Bryant Corporation, Cleveland, Ohio, a corporation of Ohio
Application July 31, 1939, Serial No. 287,572
2 Claims. (C. 126—99)

1. Air conditioning apparatus, comprising: air-box means. having air inlet and air outlet opening means; a hollow body, forming a heating chamber, having one end disposed within said air-box means, and its other end extending outwardly through the outlet opening means of said air-box means, said one end being of smaller cross-sectional extent than the chamber provided by said air-box means, providing an air-box air space, and said outwardly extending end being spaced from the defining margin of said outlet opening means; inner casing means, circumscribing, in spaced relation, that part of said body which extends outwardly of said air-box means, and constructed and arranged to provide an air chamber about said body, said air chamber providing an air space of cross-sectional area less than said air-box space, so that air from said air-box means is accelerated in its movement through said air chamber; vane means, disposed within said air chamber, secured in heat conducting relation to said inner casing, and so



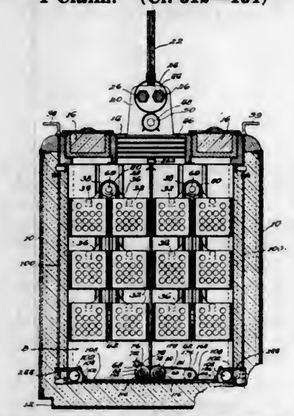
constructed and arranged that air passing through said air chamber is caused to move transversely of said air chamber as it passes longitudinally through said air chamber; and outer casing means, generally housing the aforementioned means, and having duct means for conveying heated air to a place to be heated, and providing an enlarged air space with respect to the outlet of said air chamber, so that air flow is decelerated after passage from the outlet of said air chamber.

2,285,109
DISPLACEMENT VALVE GAS LIFT
Mark P. Burke, Long Beach, Calif.
Application June 8, 1939, Serial No. 278,116
9 Claims. (Cl. 103—232)



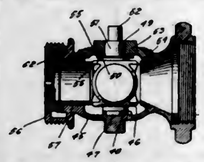
1. In a fluid lift pump mechanism, means for delivering a pressure fluid thereto intermittently a flow tube, an automatic pressure fluid valve comprising a movable valve element and a valve housing fitting within the flow tube of a well fitted with ports through which pressure fluid may pass when the valve is opened and having unobstructed fluid passageways therethrough, a liquid control valve structure below the housing and within the flow tube through which a normally unobstructed flow of liquid may pass, said structure being formed with a valve seat, a balanced valve within said structure and normally unseated, a valve operating structure mounted within the liquid valve housing and being acted upon by the pressure of an accumulated column of liquid passing up through the liquid passageways of said housing and into the flow tube, whereby when a predetermined pressure of liquid has accumulated within the tube the liquid control valve will close and the valve operating means will move the balanced valve within the valve housing to its closed position, a cylindrical bore formed within the housing of the valve structure and within which a movable element connected with the balanced valve reciprocates, and a bypass duct from the cylindrical bore to a point above the balanced valve structure whereby the fluid pressure within the cylindrical bore and the flow tube may be balanced.

2,285,110
REFRIGERATED DISPLAY CABINET
Leonard F. Clerc, Chicago, Ill.
Application May 1, 1939, Serial No. 271,077
1 Claim. (Cl. 312—134)



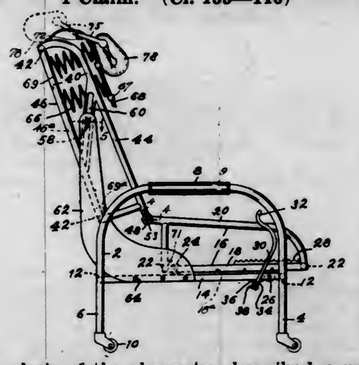
In a refrigerating and display apparatus comprising a cabinet having heat insulating walls, a window formed at the top of said cabinet, said window being formed of a plurality of spaced transparent sheets so as to provide insulation against heat conduction therethrough, doors on opposite sides of said window openable to obtain access to the contents of said chamber, the combination of a plurality of groups of trays, individually controlled means for each group of said trays for moving said trays of a group successively past said window and one of said doors.

2,285,111
SHUTOFF VALVE
John T. Corley, Providence, R. I.
Application January 24, 1939, Serial No. 252,647
3 Claims. (Cl. 251—113)



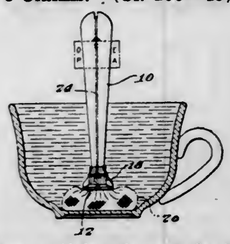
1. In a valve, a housing having a passageway therethrough, a globe valve mounted therein, a tubular packing cylinder engaging said globe valve, said cylinder having an annular shoulder and an annular flange extending from said shoulder, a metal packing ring having its central portion seated on said shoulder and its inner edge seated on said flange, and a lock ring mounted in said valve, said lock ring having an annular shoulder engaging the outer portion of said packing ring and an annular flange extending from said shoulder and engaging the outer periphery of said packing ring.

2,285,112
ADJUSTABLE CHAIR
John M. Dorton, Bonner Springs, Kans.
Application July 13, 1939, Serial No. 284,264
1 Claim. (Cl. 155—116)



In a chair of the character described, a pair of rails, a seat-frame movable forward and backward upon said rails, a back-frame including two sides hinged at their lower ends to said seat-frame, each side being formed of tubular stock and comprising front and rear members the former of which is bent backward at its upper end and fixed to the upper end of the rear member which latter is bent forward at its lower end and fixed to the lower portion of the front member, a straight guideway for each side of the back-frame extending downward from the front member to the rear member, a roller extending into each guideway, and a pair of supporting elements extending upwardly from the rails and on the upper portions of which the rollers are mounted.

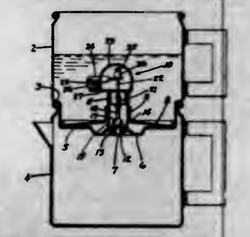
2,285,113
MUDDLING OR DUNKING DEVICE
William G. Eaton, Hull, Mass.
Application October 14, 1938, Serial No. 235,030
3 Claims. (Cl. 100—49)



1. As a new article of manufacture, a muddling device for a pouch type tea, coffee or similar bag having a string attached thereto comprising a substantially rigid elongated handle formed from a single piece of material, said handle having its lower end bent at substantially right angles thereto to form a bag engaging portion provided with a circular opening through

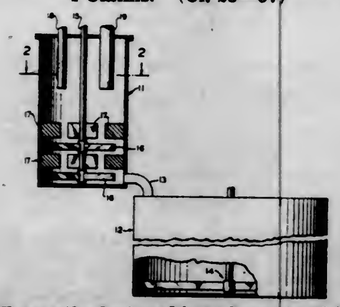
which the closed mouth of the bag may be drawn upwardly by said string, said bag engaging portion being provided with a relatively narrow slot communicating with said circular opening for convenience in threading the string through said opening preparatory to drawing the closed mouth of the bag therethrough, said relatively narrow slot being of less width than the contracted neck portion of the bag.

2,285,114
COFFEE MAKING APPARATUS
Robert Ferris, Minneapolis, Minn.
Application November 16, 1938, Serial No. 240,805
2 Claims. (Cl. 53—3)



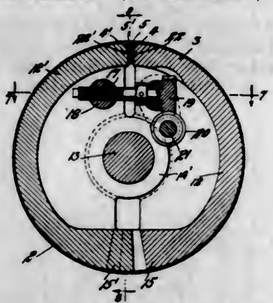
1. In a coffee making apparatus, a container having a bottom provided with a discharge opening, a filter in the bottom of the container having an upstanding tubular portion, a valve for controlling flow through said opening, and a mechanism for automatically actuating the valve after a predetermined time interval, said mechanism comprising a plate having a portion interfitting with said upstanding portion to support said mechanism in the container, a bi-metal element having one end secured to the plate and its free end connected to the valve, said element being positioned to be engaged by the liquid in the container whereby it will respond to variations in the temperature of the liquid in the container and actuate the valve after a predetermined time interval to permit the steeped coffee to drain from the container.

2,285,115
METHOD OF MANUFACTURING CHROME YELLOW PIGMENTS
David M. Gans, Bronx, N. Y., and Clinton Grove, Westfield, N. J., assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio
Application January 18, 1939, Serial No. 251,566
4 Claims. (Cl. 23—57)



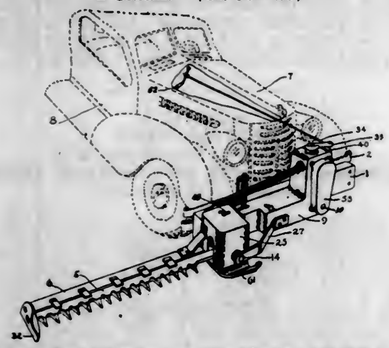
1. The method of making pigments of the medium chrome yellow group which comprises simultaneously feeding a stream of a solution of a chromate, in a continuously liquid form, and a stream of a solution of a lead salt, in a continuously liquid form, into a container while maintaining a substantially constant ratio between the amounts fed, which ratio provides at least four percent excess of chromate ion over that necessary to produce normal lead chromate, mixing the streams while in liquid form as they are fed into the tank, and withdrawing the mixture at substantially the rate of feeding.

2,285,116
PRINTING PLATE
William F. Grupe, Lyndhurst, N. J., assignor, by mesne assignments, to Interchemical Corporation, New York, N. Y., a corporation of Ohio
Application October 12, 1938, Serial No. 234,536
16 Claims. (Cl. 101—415.1)



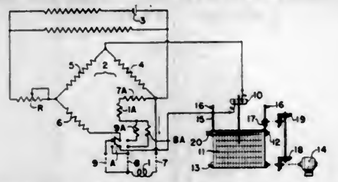
1. A printing plate comprising a thin, flexible sheet of metal which consists of an intermediate portion providing a printing surface and two end portions bent at right angles to the printing surface, and having metal adjacent the lines of bend displaced so as to form sharp right-angle edges at the junctures of the intermediate portion with the end portions.

2,285,117
MOWING ATTACHMENT FOR TRUCKS
Edwin H. Johnson, Lincoln, and Samuel Baughman, Broadwell, Ill., assignors of one-third to Robert W. Sheets, Lincoln, Ill.; Bernice G. Baughman, administratrix of said Samuel Baughman, deceased
Application May 12, 1939, Serial No. 273,178
1 Claim. (Cl. 56—25)



A mowing attachment for trucks, tractors, and the like, having a power take-off operatively connected with the front mounting for the attachment on such vehicle, a mowing sickle operatively carried by said vehicle and operatively pivoted to said front mounting means, an eccentric cam drive for said sickle, a housing for said drive, a sprocket shaft extending through said housing and pivotally supporting the same, a shaft supported yoke, a rocker arm carried by said yoke, said sickle pivotally connected to the bottom end of the rocker arm for an oscillating movement, a cam collar, pivotally carried by said rocker arm and establishing a drive connection between said sickle through said cam and said rocker arm, selectively adjustable sprockets and sprocket chains operatively connected therewith for the control of said sickle, a drive shaft connected with said power take-off, a loose running sprocket carried by said drive shaft and an integral gear therewith, an upright worm-gear meshing with said integral loose running gear, a lifting chain establishing a lifting control connection between said housing and said loose-running sprocket, a bevel gear uprightly disposed and integral with said worm gear, a pair of spaced sprocket wheels establishing operative connection between said drive shaft and said upright bevel gear through a sprocket chain and a selectively adjustable second bevel gear adapted to mesh with the first, for the selective control of said lifting chain, and a resilient spring connecting said housing with said lifting chain mechanism for easing the lifting operation.

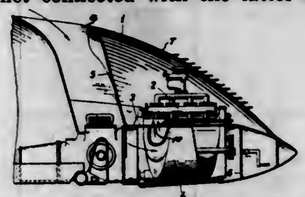
2,285,118
IMPEDANCE MEASURING APPARATUS
Harry S. Jones, Philadelphia, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application August 31, 1938, Serial No. 227,681
14 Claims. (Cl. 73—342)



1. Measuring apparatus including a normally unbalanced electrical bridge network having a variable impedance to be measured in one arm, said impedance disposed at a distance from said network, means to energize said bridge network, a device connected in said network to indicate the extent of unbalance of the latter, and three electrical conducting leads at least two of which are of different resistance per unit length connecting said impedance to said network, said conducting leads being so connected to said network that all of the current to said impedance flows through said conducting lead of lower resistance per unit length whereby compensation is had for errors in the indication of said device due to the flow of bridge unbalanced currents to the latter.

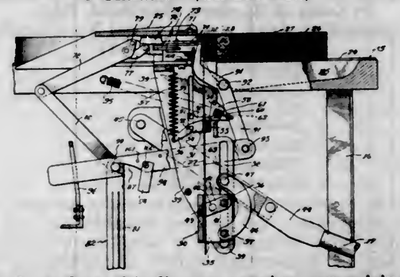
2,285,119
AIR-COOLED MOTOR
Miloš Klavík, Prague-Smichov, Czechoslovakia
Application September 1, 1939, Serial No. 293,137
In Czechoslovakia August 2, 1938
2 Claims. (Cl. 180—54)

1. In an automobile, the combination of a body having a rear compartment with a hinged cover, a transverse horizontal wall dividing the compartment into an upper and lower section, an engine in the compartment comprising cylinders in the upper section and a crank case in the lower section, a fresh air duct in front of said rear compartment and communicating with the lower section only, a blower in said lower section and having its inlet connected with the latter and its



outlet with the upper section, whereby the cylinders are on all sides surrounded by air flowing in the same direction.

2,285,120
PACKAGE-BINDING APPARATUS
Alfred Marchev, La Grange, Ill., assignor to Signode Steel Strapping Company, Chicago, Ill., a corporation of Delaware
Application September 8, 1939, Serial No. 293,994
9 Claims. (Cl. 100—31)

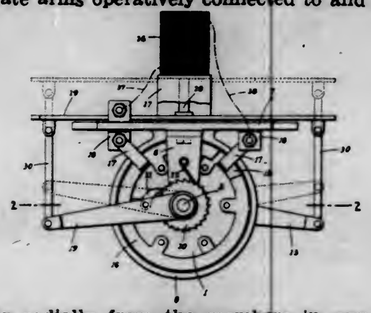


7. A package binding apparatus comprising a table having a slotted top for supporting a package in binding position, the slot serving to permit the passage of binder through the table top from a source therebelow, a binder guide below the table top for guiding into a loop about a package in binding position the free end of a binder fed from the source through the slot in the table top, binder tensioning mechanism for retracting binder through the slot in the table top toward the source to shrink the loop of binder about a package in binding position, and binder advancing means acting automatically upon the restoration to normal of the tensioning mechanism to feed a short length of binder through the slot in the table top to provide a free end of binder for easy grasp by the operator to commence the next binding cycle.

2,285,121
SWITCH
Roy T. Mason, Newman, Calif., assignor of one-half to Norbert R. Schiernbeck, Modesto, Calif.
Application September 23, 1939, Serial No. 296,259
3 Claims. (Cl. 200—105)

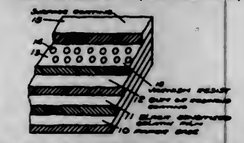
1. In a switch having a pair of separate members, means supporting the members in relatively turnable and coaxial relation, and contacts on the members adapted to cooperate with each other but normally spaced apart circumferentially a predetermined arcuate distance; operating means applied to both members to normally maintain them in such relative position that the contacts are spaced apart a predetermined arcuate distance and operable to rotate the members from such position in opposite directions and at the same speed and to an arcuate extent only

sufficient to bring the contacts into engagement with each other; said operating means including separate arms operatively connected to and pro-



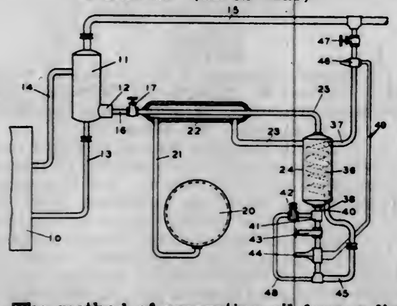
jecting radially from the members in opposite directions and a single movable member connected to the arms at their outer end.

2,285,122
MEDIUM FOR PRODUCING IMAGES
Maurice D. McIntosh, Cleveland, Ohio, assignor to Louis S. Sanders, Cleveland, Ohio
Application April 1, 1939, Serial No. 265,465
11 Claims. (Cl. 41—41)



1. As an article of manufacture a medium for the preparation of images suitable for use as camera copy comprising a base sheet having a surface of non-actinic color, a chemically developable substance, a thin film of material which allows passage of light, a coating of material which allows passage of light and has a greater affinity for said film than for said chemically developable substance, said coating having a multiplicity of spaced openings through which said chemically developable substance is accessible and a surface coating of dull material which allows passage of light, said film permitting access of developers for said chemically developable substance, said first mentioned coating being insoluble in and impenetrable by said developers.

2,285,123
OIL SEPARATOR AND METHOD OF USE
Harry A. Phillips, Chicago, Ill.
Application October 10, 1939, Serial No. 298,755
3 Claims. (Cl. 62—115)



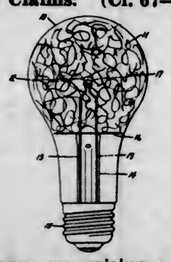
2. The method of separating oil from a liquid refrigerant which comprises the steps of simultaneous chilling and whirling of said refrigerant to congeal the oil therein and cause said oil to adhere to the surfaces encountered during its path through the separator apparatus.

2,285,124
VACUUM CHURN
Robert D. Pike, Piedmont, Calif., assignor to A. W. Stitt, San Francisco, Calif.
Application November 14, 1938, Serial No. 240,291
3 Claims. (Cl. 31—34)



3. In a churn of the character described, means for effecting partial vacuum during churning which comprises a hollow shaft supporting the churn for rotation, a vacuum conduit extending through said shaft and into the churn and having an opening communicating with the interior of the churn at a point eccentric to the shaft, and means supporting said conduit and permitting rotation of the conduit whereby the position of said opening may be adjusted to a desired level within the churn.

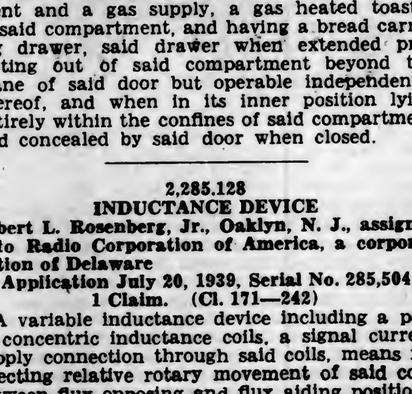
2,285,125
FLASH LAMP
Marvin Pipkin, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application March 16, 1939, Serial No. 262,209
7 Claims. (Cl. 67—31)



3. A flash lamp comprising a sealed container having an oxidizing atmosphere therein, a quantity of combustible material within said container, and means for igniting said combustible material, said means comprising an electrical energy translation element and a bead of fulminating substance associated therewith, said bead of fulminating substance containing the proportions of approximately 2.6 grams of one type of zirconium metal powder having a relatively low ignition temperature, 2.6 grams of another type of zirconium metal powder having a larger particle size and a relatively high ignition temperature, 4 grams of chemically pure potassium perchlorate powder, and 5 cc. of a one per cent solution of glue water.

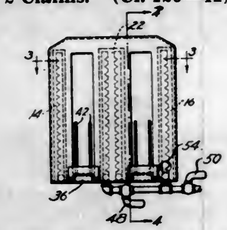
2,285,126
ELECTRON MULTIPLIER
Jan A. Rajchman, Philadelphia, Pa., and Richard L. Snyder, Jr., Glassboro, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application July 28, 1939, Serial No. 287,020
8 Claims. (Cl. 250—175)

1. An electron discharge device comprising a source of electrons, a bent plate having a secondary-electron emissive inner surface circumscribing a space toward which electrons from said source are directed, said plate having a pair of inwardly directed marginal portions defining an



opening which faces said source and through which electrons from said source pass in traveling to said emissive inner surface, and a collector electrode for said secondary electrons supported within said enclosed space behind the said marginal portions of said plate.

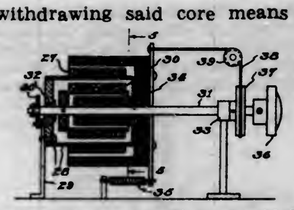
2,285,127
GAS HEATED TOASTER
John V. Rerucha, Toledo, Ohio, assignor of one-half to James T. McMahon, Toledo, Ohio
Application May 22, 1939, Serial No. 274,918
2 Claims. (Cl. 126—41)



1. In combination with a gas range having an auxiliary storage compartment opening in the front, a door closing said storage compartment and a gas supply, a gas heated toaster in said compartment, and having a bread carrying drawer, said drawer when extended projecting out of said compartment beyond the plane of said door but operable independently thereof, and when in its inner position lying entirely within the confines of said compartment and concealed by said door when closed.

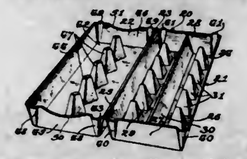
2,285,128
INDUCTANCE DEVICE
Albert L. Rosenberg, Jr., Oaklyn, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 20, 1939, Serial No. 285,504
1 Claim. (Cl. 171—242)

A variable inductance device including a pair of concentric inductance coils, a signal current supply connection through said coils, means for effecting relative rotary movement of said coils between flux opposing and flux aiding positions, movable core means positioned within said coils in the flux aiding position, and means for effectively withdrawing said core means from said



coils in response to operation of said first-named means toward the flux opposing position.

2,285,129
CONTAINER
Louis Schwartzberg, Chicago, Ill.
Application September 10, 1938, Serial No. 229,278
3 Claims. (Cl. 229—2.5)



1. A container for fragile articles comprising, in combination, an integrally molded casing having base and cover portions hingedly connected together by a molded flexible portion and opening to a position such that the top and bottom are in substantially the same plane; the said base portion having end and side walls that slope outwardly from the bottom, a hollow wedge-shaped partition dividing the bottom into two sections, a series of separated hollow, tapered, wedge-shaped separators on each side of the partition and substantially uniformly distributed along each of the two sections to divide the sections into article-receiving spaces; said cover portion having recessed end portions to provide openings in each end wall of the container and having separated hollow, tapered, polygonal projections distributed substantially parallel to the wedge-shaped partition and co-operating with the partition when the casing is closed to provide strength to the container and support to the articles; and a sheet paper cover for the casing fitting into the wedge-shaped partition on the outside of the bottom and having openings therein in alignment with said hollow separators and projections so that a series of similar containers nest closely together, said paper cover also providing a seal to hold the casing closed and prevent opening thereof without breaking the seal.

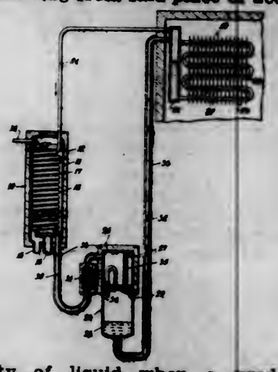
2,285,130
PROCESS FOR MANUFACTURING ALCOHOL
Herman Schwarcz, New York, N. Y., assignor of fifteen per cent to Julian J. Wittal, New York, N. Y.
No Drawing. Application March 17, 1939, Serial No. 262,570
6 Claims. (Cl. 195—16)

5. In a process for manufacturing alcohol, the step of adding not sprouted millet flour containing yeast to the mash, thereby accelerating the alcoholic fermentation and increasing the yield in alcohol.

2,285,131
REFRIGERATION
Hugo M. Ullstrand, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application March 14, 1938, Serial No. 195,736
12 Claims. (Cl. 62—125)

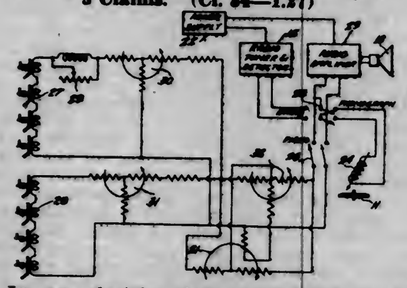
1. A method of heat transfer which includes

vaporising liquid fluid in a place of vaporization at an upper elevation, condensing vaporized fluid in a place of condensation at a lower elevation, flowing liquid condensate to a place of accumulation, removing from said place of accumulation



a quantity of liquid when a predetermined amount thereof accumulates at the place of accumulation, and raising substantially all of the removed liquid between said elevations by trapping vapor above a liquid surface thereof to exert force thereon.

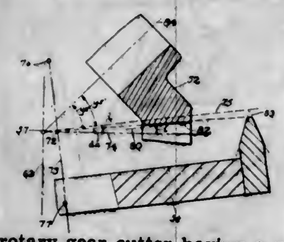
2,285,132
COMBINATION ELECTRIC MUSICAL INSTRUMENT
Paul Weathers, Audubon, and William L. Rothenberger, Merchantville, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application April 20, 1938, Serial No. 203,614
3 Claims. (Cl. 84—1.27)



1. In an electric piano, acoustical electric translating means, an audio amplifier connected to said translating means, a loudspeaker connected to said amplifier, manually controlled means independent of the piano mechanism for regulating the volume from all of said translating means, and pedal control means independent of the piano mechanism and supplemental to said manually controlled means for regulating the volume from all of said translating means over the range between the maximum for which the manual volume control is set to the maximum output of said translating means.

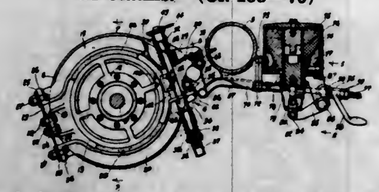
2,285,133
CUTTER FOR AND METHOD OF CUTTING GEARS
Ernest Wildhaber, Irondequoit, N. Y., assignor to Gleason Works, Rochester, N. Y., a corporation of New York
Application April 17, 1937, Serial No. 137,531
42 Claims. (Cl. 90—5)

1. The method of cutting tapered gears which comprises employing a tool that has a plurality of cutting blades of progressively varying height which are adapted to operate, respectively, at definite, different points along the length of a tooth surface of a gear, and imparting a cutting motion to the tool while producing a relative rolling movement between the tool and blank which is so coordinated to the tool motion that a tooth surface of tapering depth from end to end is cut in the blank during a single pass of said tool through a tooth space of the blank, and indexing the blank after each pass of the tool.



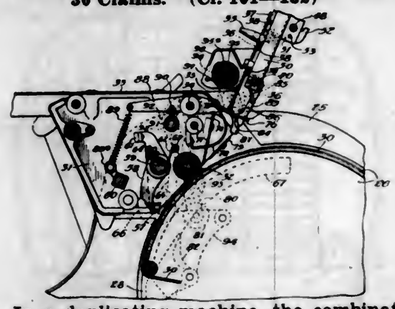
17. A rotary gear cutter having a plurality of finish-cutting blades projecting beyond one side face in the general direction of the axis of the cutter and arranged part-way only around the periphery of the cutter with a gap between the last and first blades, said finishing blades being of progressively varying point width and having side cutting edges which are inclined to the axis of the cutter and are of progressively varying height so that corresponding side-cutting edges of successive finishing blades occupy progressively varying parts of the effective cutting surfaces formed by said cutting edges, and said gap being of sufficient angular extent to permit of indexing a gear blank without relative withdrawal of the cutter from the blank when the gap in the cutter is abreast of the blank.

2,285,134
BRAKE
Alfred O. Williams, Battle Creek, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application December 28, 1939, Serial No. 311,282
24 Claims. (Cl. 188—75)



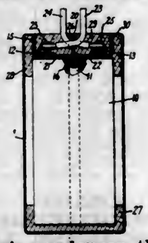
1. A brake for a motor shaft comprising a brake drum on said shaft, a pair of brake shoes anchored on one side of said drum and having parallel extensions on the other side, spring means normally urging said shoes into engagement with said drums, a lever pivoted intermediate said extensions and having opposed arm means engaging the same for spreading said shoes apart against the pressure of said spring means, a second lever connected at one end to said first lever, an actuating means, a bell crank controlled by said actuating means for engaging said second lever adjacent its opposite end for shifting it longitudinally to rotate said first lever for spreading said shoes, and a lost motion connection between said bell crank and said second lever.

2,285,135
DUPLICATING APPARATUS
Robert Alonso Williams, Chicago, Ill., assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia
Application May 1, 1941, Serial No. 391,353
30 Claims. (Cl. 101—132)



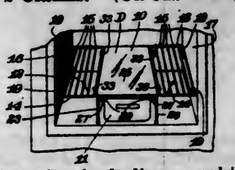
1. In a duplicating machine, the combination of a drum rotatably mounted on a horizontal axis and having a recess in its peripheral surface, a platen roller rotatably mounted in position to press on the drum, an obliquely disposed paper guide along which a copy sheet is adapted to move downwardly toward said platen roller, margin bar means movably mounted in position for engagement with a copy sheet on said paper guide for supporting its lower end portion opposite to said platen roller, means effective at a predetermined point in a revolution of the drum to move said margin bar means automatically out of the path of a sheet on said paper guide, and soft readily yielding means adapted by engagement with a copy sheet on said paper guide to hold the sheet yieldingly against movement downwardly on the guide after said margin bar means has been withdrawn from engagement with the sheet.

2,285,136
ELECTRIC CONDENSER
Erich Abendroth, Berlin, Germany, assignor to General Electric Company, a corporation of New York
Application December 15, 1939, Serial No. 309,461
In Germany January 27, 1939
10 Claims. (Cl. 175—315)



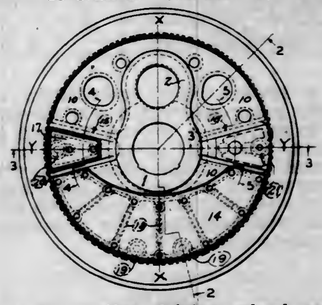
1. In an electric condenser, the combination of a condenser body, a cup-shaped member disposed in contiguity therewith and comprised of insulation material, which said member has partition means dividing the interior of the member into a plurality of separate compartments and the bottom portion of which member has spaced apart openings communicating respectively with said compartments, said condenser body having a plurality of flexible connection lugs extending from said body respectively through different ones of said openings into separate ones of said compartments, a plurality of terminal leads terminating respectively in separate ones of said compartments and connected respectively with separate ones of said lugs, and insulating compound solidly embedding and anchoring the junctions between said leads and said lugs in said compartments, said insulating compound sealing said openings in the bottom of said member.

2,285,137
REFRIGERATOR SHELF
Robert S. Ahrens, St. Paul, Minn., assignor to Seeger Refrigerator Company, St. Paul, Minn., a corporation of Minnesota
Application February 10, 1939, Serial No. 255,673
2 Claims. (Cl. 312—150)



1. A refrigerator including a cabinet provided with opposed side walls and a rear wall, a substantially U-shaped frame, the free ends of said U-shaped frame being bent downwardly to form legs on the front end thereof, means on the rear cabinet wall supporting the closed end of said U-shaped frame, an imperforate shelf on said frame, drawer means suspended beneath said shelf, and drawer suspending means on said shelf for said drawer means.

2,285,138
LOCOMOTIVE DRIVING WHEEL CENTER
Thomas H. Ainsworth, Drexel Hill, Pa., assignor to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware
Application June 3, 1939, Serial No. 277,121
15 Claims. (Cl. 295—6)



1. In a locomotive driving wheel center, a crank pin hub, a counterbalance diametrically opposite said hub for said hub and its pin and the pin load, and a pair of pockets disposed symmetrically about a line through the axle center and extending 90° to a line between the center of said load and counterbalance, said pockets being arranged for weights for cross counterbalancing the crank pin and load on the other wheel on the same axle.

2,285,139
RECORD HOLDER
Lloyd J. Andres, Chicago, Ill.
Application November 18, 1940, Serial No. 366,058
4 Claims. (Cl. 274—42)

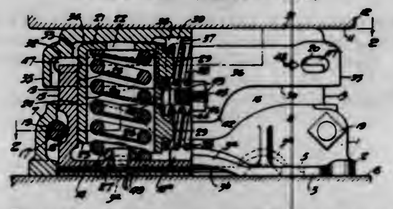
1. A holder for disk records in the form of a

ring having a split, the outside diameter of said ring being of substantially the same diameter as a larger record, the interior diameter being larger than the record adapted to be supported thereby, at least three inwardly directed integral pro-



jections extending radially inwardly from said ring a distance sufficient to engage the periphery of the small diametered record to be supported thereby, said projections being spaced from each other.

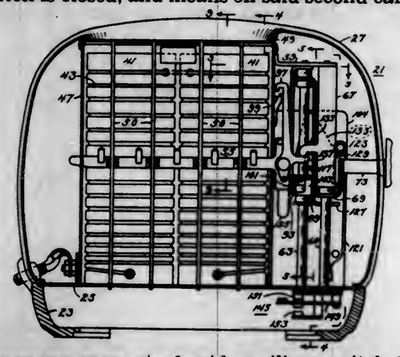
2,285,140
SIDE BEARING
Donald S. Barrows and Clarence I. Lusink, Rochester, N. Y., assignors to The Symington-Gould Corporation, Rochester, N. Y., a corporation of Maryland
Application April 24, 1939, Serial No. 269,737
12 Claims. (Cl. 308—138)



1. In a side bearing, in combination, a sleeve, a housing positioned within and movable with respect to said sleeve, a cover adapted to move horizontally relatively to said housing, means within said housing for resisting movement of said cover toward said housing, and means movably associated with said housing and removably associated with said sleeve for preventing separation therebetween.

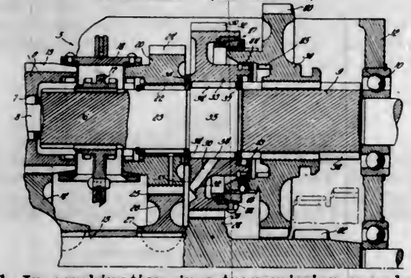
2,285,141
AUTOMATIC ELECTRIC TOASTER
Herman M. Biebel, Elgin, Ill., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware
Application April 10, 1941, Serial No. 387,852
5 Claims. (Cl. 219—19)

1. In a two-slice automatic electric toaster comprising a plurality of toast heating elements for each slice of bread to be toasted, a first and a second bread carrier movable into toasting and non-toasting positions relatively to the heating elements and normally biased into non-toasting position, means for selectively moving said first carrier alone or both carriers into toasting position, a normally open main heater switch controlling all of said toast heating elements, means for causing closing of said main heater switch when said first carrier is moved into toasting position, an auxiliary switch controlling the energization of less than all of said toast heating elements and normally yieldingly biased into position to prevent energization of the toast heating elements for the second carrier when the main switch is closed, and means on said second carrier



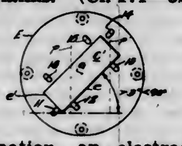
to cause movement of said auxiliary switch into another position to cause energization of the heating elements for the second carrier when both said carriers are simultaneously moved into toasting position and said main switch is closed by said first carrier.

2,285,142
TRANSMISSION
Carl L. Bixby, Berrien Springs, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application May 6, 1940, Serial No. 333,507
8 Claims. (Cl. 184—6)



1. In combination, in a transmission gear having a hub portion journalled on antifriction bearings, a plurality of circumferentially spaced bosses formed on one lateral face of the gear, ports in said bosses, pockets in said bosses opening into said ports, and passageways extending laterally and radially inwardly from said bosses and opening into the hub of said gear.

2,285,143
MOUNTING PIEZOELECTRIC ELEMENTS
Samuel A. Bokovoy, Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 2, 1940, Serial No. 312,060
9 Claims. (Cl. 171—327)



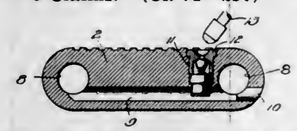
1. In combination, an electrode surface, a piezo-electric element upon said surface, a plurality of spaced retaining members, defining the limits of movement of said element upon said surface, and means for exerting a biasing force upon said crystal in a direction calculated to urge said crystal into contact only with certain selected of said retaining members.

2,285,144
PINLESS HAIR WAVING DEVICE
Louis V. Bregou, Worcester, Mass.
Application September 17, 1941, Serial No. 411,201
8 Claims. (Cl. 132—38)



1. In a hair dressing device, a continuous flexible strap to be placed about the head and adapted to pass over the forehead and nape of the neck to follow the natural hair line, a further strap adapted to be attached to said continuous strap near each temple at one end and at the nape of the neck at the other end, closely spaced fastening devices secured to said straps substantially thruout their lengths, still further straps adapted to be detachably secured as by certain of said fasteners to subdivide the areas outlined by said first and second mentioned straps, and a sheet of resilient material in the form of a spiral adapted to be detachably secured to and between said second named straps, fasteners on said sheet to secure the latter to said closely spaced fastener devices in adjusted position on said second named straps, said sheet bulging outwardly beyond the latter away from the head, and said spiral extending inwardly towards the head, whereby a page-boy wave may be produced by inserting hair ends in said spiral.

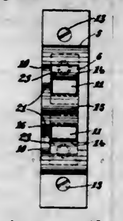
2,285,145
CONVEYER CHAIN AND METHOD OF LUBRICATING THE SAME
George H. Burt, Metairie, La., assignor to The Celotex Corporation, Chicago, Ill., a corporation of Delaware
Application January 11, 1940, Serial No. 313,363
9 Claims. (Cl. 74—257)



5. A drive chain link comprising a body portion, a bore in said body portion for receiving a pintle therein, and a lubricant conveying passageway within said body portion and whose end terminates substantially in tangential relation with respect to said bore.

2,285,146
SOCKET FOR PIN BASE LAMPS AND TUBES
Nathan Chireistein, Chicago, Ill.
Application September 30, 1941, Serial No. 412,931
1 Claim. (Cl. 173—328)

A supporting socket for lamps and tubes having spaced terminal pins and comprising a socket base of insulating material, having a wide entrance groove through one edge of the same for substantially simultaneous entry of both terminal pins and defined by pin guiding side walls spaced apart a distance greater than the overall spacing of the terminal pins to admit entry of both or either of said pins and an interposed insulating partition between said spaced side walls and having opposite edges opposed to said pin guiding side walls of said wide entrance groove, spring contacts on said base at opposite sides of said intermediate partition and yieldable toward each other, said contacts having open pin receiving hooks and disposed with the open sides of said hooks faced outwardly toward and opposed to said side walls of said entrance groove, said contacts being tensioned away from each other with said hooks positioned a distance apart greater than the inside spacing between said terminal pins, said open hooks having extensions at the free ends of the same inclined inwardly toward said intermediate partition, said free ends of said open hooks being spaced away from the opposing portions of said pin guiding side walls a distance greater than the diameter of the terminal pins to enable free passage of

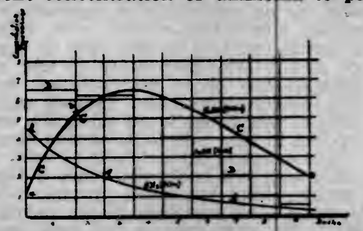


either terminal pin over the inclined extension of the same into engagement in the open hook of either contact and whereby after such free engagement of either terminal pin in either open hook, the lamp or tube carrying the terminal pins may be rotated inwardly about the pin which is engaged in the contact hook as a center to bring the other terminal pin into wedging engagement with the inclined extension of the other contact to effect relative contracting movement of the contacts toward each other sufficiently for engagement of the second terminal pin in the open hook of the second contact and whereby the lamp or tube may be released by simply rotating the same in either direction to free one of the terminal pins from the open hook of one contact, after which the other pin will be freely disengageable from the open hook of the other contact, the insulating partition between the contacts being limited in extent to enable said rotary movements of the lamp or tube to carry one terminal pin into engagement with or to free it from the hook of one contact, while the other terminal pin is pivotally held in the open hook of the other contact.

2,285,147
PROCESS OF MANUFACTURING FOILS, FILMS, AND THE LIKE
Emil Czapek, New York, N. Y., assignor to Guaranty Trust Company of New York, New York, N. Y., a banking corporation of New York
Application December 24, 1937, Serial No. 181,583
3 Claims. (Cl. 18—57)

1. The process of manufacturing foils, film stock and the like having a final thickness of substantially 0.007 to 0.12 mm. from a solution of cellulose in copperoxide ammonia characterized by spreading the solution by means of a pouring device thereupon subjecting the so spread solution to a coagulation treatment in a

preliminary coagulation bath consisting of an aqueous solution of caustic alkali and ammonia of a concentration beginning with not more than 11 per cent caustic soda solution and exceeding the ammonia content in the film stock and a concentration beginning with not more than 1.2 per cent concentration of ammonia to prevent



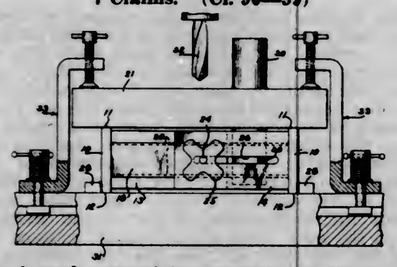
the forming of any copper hydroxide precipitate in the film stock while being coagulated, and thereupon subjecting the film stock to a succession of baths of decreasing alkali, and of decreasing ammonia content, the alkali content of each of which exceeds the ammonia content of a bath and the ammonia content of the film while passing through the baths.

2,285,148

WORK HOLDER

John Czajka, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application March 13, 1940, Serial No. 323,678
7 Claims. (Cl. 90—59)



1. A work support for mounting work on a bed of a machine tool comprising an adjustable frame-like structure having an unobstructed open space therein, said structure including spaced members with upper faces upon which work spanning the members is supported, bottom bearing faces of the members being parallel to the machine tool bed, and elements adjustably connected to each other and connected to the members to permit adjustment of the members toward or from each other to accommodate different sizes of work.

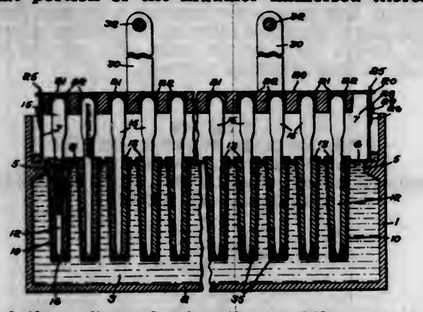
2,285,149

ICE-COOLING MUDDLER, METHOD OF MAKING

John D'Arcey, Swampscott, Mass.

Application June 13, 1940, Serial No. 340,305
1 Claim. (Cl. 62—172)

The improved method of preparing an ice-coated muddler formed with a pointed end, which consists in providing a tubular liquid-receiving member having a conical bottom to receive and to center the muddler point when fitted therein, applying a muddler lengthwise in said tube, filling with liquid, applying a holder over the liquid-receiving member to hold the muddler centered in said tube, subjecting the same to a freezing temperature to freeze ice in the tube about that portion of the muddler immersed therein,



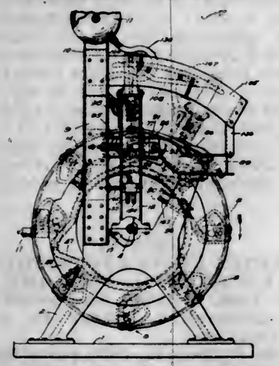
and thereafter releasing the muddler centering means and withdrawing the muddler with the ice encircled about the same.

2,285,150

APPARATUS FOR FORMING HOLLOW ARTICLES FROM PLASTIC MATERIAL

Enoch T. Ferngren, Little Neck, N. Y., assignor to Plax Corporation, Hartford, Conn., a corporation of Delaware

Original application August 10, 1938, Serial No. 224,001. Divided and this application June 19, 1940, Serial No. 341,288
12 Claims. (Cl. 18—5)



1. In apparatus for forming hollow articles from plastic material, a mold including a one-part body mold portion, a split neck mold and a solid mouth ring, means for opening said mold to release a completed article formed therein including means for first separating said neck mold and mouth ring as a unit from said body mold by a relative axial movement thereof to free a completed article from said body mold while it is still grasped by said neck mold, means for thereafter separating said mouth ring from said neck mold by a relative axial movement thereof, and means for then opening said neck mold to release the completed article.

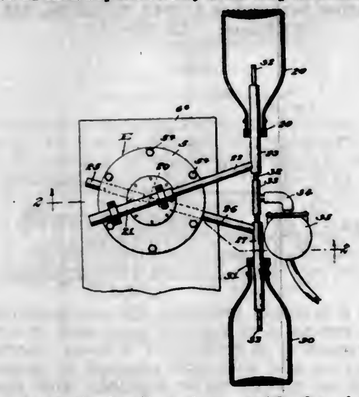
2,285,151

APPARATUS FOR MEASURING CAPACITY

Floyd A. Firestone, Ann Arbor, Mich., assignor to Owens-Illinois Glass Company, a corporation of Ohio

Application October 6, 1939, Serial No. 298,178
30 Claims. (Cl. 73—51)

4. Apparatus for measuring the capacity of a container, including means for supporting said container and a container of standard capacity, a tube having its opposite ends extending into the containers and providing a passageway between the containers, an air displacement member, means providing air chambers on opposite sides of and separated by said displacement mem-



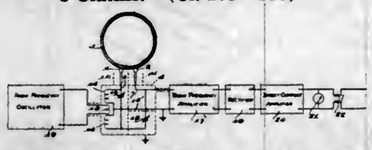
ber, conduits leading from said chambers and opening respectively into said containers, means for reciprocating said displacement member and thereby propagating air pressure waves through said conduits to the containers, and indicating means connected to said tube at a point intermediate said containers.

2,285,152

MEASURING THICKNESS OF DIELECTRIC MATERIALS

Floyd A. Firestone, Ann Arbor, Mich., assignor to Owens-Illinois Glass Company, a corporation of Ohio

Application November 18, 1939, Serial No. 305,134
3 Claims. (Cl. 175—183)



1. Apparatus for measuring the thickness of a dielectric material which comprises a pair of electrodes spaced apart and arranged to be placed both in juxtaposition to one side of said material with the latter bridging the space therebetween, grounded plates of conducting material surrounding said electrodes, and electrical means for indicating a change in the electrical capacity between the electrodes when said dielectric material is placed in said position.

2,285,153

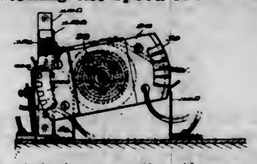
ADDING, SUBTRACTING, AND ACCOUNTING MACHINE

Roy W. Fletcher, Evanston, Ill.

Application July 11, 1936, Serial No. 90,214
5 Claims. (Cl. 177—380)

1. The combination of numeral keys adapted to move variably in accordance with their respective values, an electric impulse transmitting switch movable with the keys and variable as determined by the values thereof, a speed controlling device for governing the speed of actuation of the switch, pawls positioned by the keys

variably as determined by the values thereof, one cooperating with one part of the controlling device for governing the speed of movement of the



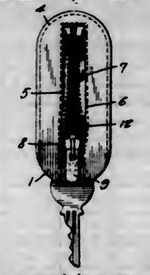
keys and switch in one direction and the other the speed of movement of these elements in the other direction.

2,285,154

KEY HOLDER

George C. Lewellen, King City, Mo.

Application February 17, 1941, Serial No. 379,348
1 Claim. (Cl. 150—40)



A key holder comprising an elongated sheath like body made from flexible sheet material to provide outer walls and an inner wall, said outer and inner walls being stitched together along the side edge portions and one of the end portions thereof to provide a pair of key receiving compartments having one of their ends open and their opposite ends closed, said outer walls being slotted along the longitudinal centers thereof for the major portion of their length, slide fasteners for closing the slots and having the slide members thereof extending into the compartments, spring hooks for attachment of keys thereto and carried by the slide members for disposal of the keys into and out of the compartments through the open ends upon movement of the slide members, each hook being formed from a single strip of metal looped to provide a shank integral with the outer end of its slide member, said shank from its connection with its slide member being directed toward the open end of its compartment and from the remaining end portion of the hook to provide a key receiving space to allow free pivotal movement of a key on the hook, and said remaining end portion of the hook being directed toward the closed end of its compartment and paralleling its slide member and having its free end flared toward and terminating substantially flush with the inner end of its slide member.

2,285,155

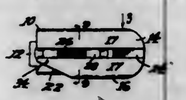
RAZOR BLADE KNIFE

Sherman W. Frost, Millbury, Mass., assignor to Thomas Smith Company, Worcester, Mass., a corporation of Massachusetts

Application November 6, 1939, Serial No. 302,940
17 Claims. (Cl. 30—162)

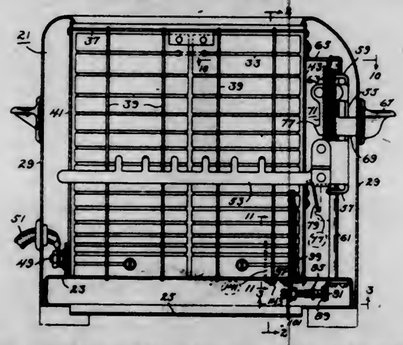
6. In an article of the class described, a plate of suitable material having overlying spaced parallel flanges, said flanges being spaced from

said plate, a slider adapted to be received in the space between said flanges, said slider having a rigid foot element extending between and bear-



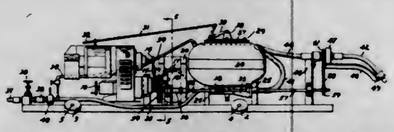
ing against said plate and said flanges, and said element being formed to provide a projection for receiving an aperture in a blade.

2,285,156
ELECTRIC TOASTER
John R. Gomersall, Elgin, Ill., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware
Application September 25, 1941, Serial No. 412,216
5 Claims. (Cl. 219—19)



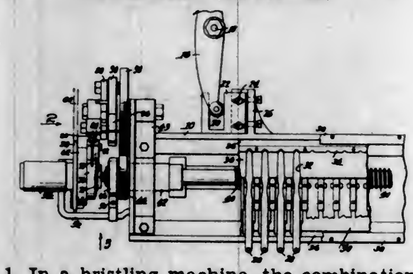
1. A dual purpose electric toaster comprising toast heating elements defining a toasting chamber, a thermally-responsive switch for controlling the energization of the toast heating elements, means normally holding said switch in closed position, a bread slice holder insertible into the toaster and effective to move said switch holding means out of its normal position to cause said thermally-responsive switch to operate and limit the maximum temperature of the toasting chamber during a toasting operation.

2,285,157
METHOD OF AND APPARATUS FOR CLEANING PIPES
Lauren W. Grayson, Riverside, Calif.
Application May 17, 1940, Serial No. 335,857
12 Claims. (Cl. 51—8)



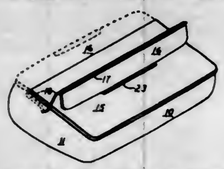
1. An apparatus of the character described comprising a traveling carriage, motor driven means for propelling the carriage, a hopper on the carriage for containing material to be discharged therefrom, a rotary blast nozzle mounted on the carriage, means including a conductor connecting the hopper with the nozzle for feeding the material under pressure from the hopper to the nozzle and discharging the same from the latter, and motor driven means mounted on the carriage separate from and independent of the conductor for rotating the blast nozzle.

2,285,158
BRUSH BRISTLING MACHINE
William Penn-Gaskill Hall, Berwyn, Pa., and Earl R. Person, Albert O. Bell, and Leroy W. Vinal, Leominster, Mass., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application September 5, 1940, Serial No. 355,488
19 Claims. (Cl. 300—11)



1. In a bristling machine, the combination of a slide, means to reciprocate said slide in directions transverse to each other, a holder movably mounted on said slide and adapted to receive a plurality of blanks to be bristled; with means to move said holder in relatively parallel relation to a movement of said slide in one direction during each movement of said slide due to said reciprocating means.

2,285,159
DESK
Walter M. Hanson and Henry E. Bennett, Grand Rapids, Mich., assignors to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey
Application March 20, 1940, Serial No. 324,924
5 Claims. (Cl. 45—91)

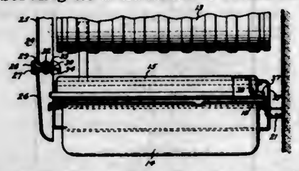


3. A desk provided with a bail whose opposite ends are pivotally secured to the opposite ends of the desk, a desk top divided into a forward portion and a rearward portion, and a ledge depending from the rearward side of the rearward desk top portion and overhanging the rearward side of the desk, the forward side of the rearward portion of the desk top being pivotally connected to the bail intermediate the ends thereof whereby the bail and its pivotally connected desk top portion may be manually swung to adjusted position relative to the forward desk top portion to form an easel with said ledge forming a shelf supported on the upper surface of said forward desk top portion.

2,285,160
REFRIGERATOR CABINET
George C. Harbison, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application August 20, 1941, Serial No. 407,590
6 Claims. (Cl. 62—103)

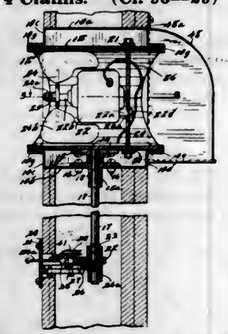
1. In a refrigerator including a compartment having a cooling unit associated therewith and a cold storage receptacle disposed below said unit,

an element disposed at the front of said unit and said receptacle comprising an upper portion serving as a door for said cooling unit and a lower portion serving as a decorative front for said re-



ceptacle, said element having an opening therethrough and means arranged to conduct moisture condensing on said upper portion through the opening.

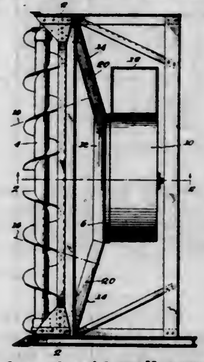
2,285,161
VENTILATING DEVICE
Louis J. Jenn, Minneapolis, Minn.
Application May 11, 1940, Serial No. 334,541
4 Claims. (Cl. 98—29)



1. A ventilating device for a room having in combination, a casing adapted to be disposed in an opening through a wall of said room and having inner and outer openings at opposite sides thereof disposed adjacent opposite sides of said wall, a second substantially cylindrical casing disposed in said casing and mounted for rotation therein about a central axis, said second casing having a passage extending therethrough and being rotatable through substantially 180 degrees so that the ends of said passage can be positioned adjacent either of said inner or outer openings in said first mentioned casing, said second casing also having portions between the ends of said passage closing said openings in said first mentioned casing when said second casing is in mid-position, a motor and fan driven thereby mounted in said passage in said second casing whereby said second casing may be moved into one position with said passage aligned with said first mentioned openings so that air will be drawn into said room by said fan or may be positioned in another position with said passage aligned with said openings so that said motor will discharge air from said room or may be placed in mid-position closing said first mentioned openings.

2,285,162
CASING FOR CONVEYING DEVICES FOR SNOW REMOVING MECHANISM
Walter E. Klauer, Dubuque, Iowa
Application February 15, 1940, Serial No. 319,132
3 Claims. (Cl. 37—43)

1. In a snow remover, a casing open at the top, a snow discharging mechanism mounted behind said casing, said casing having a rear wall provided with an aperture therein into said discharging mechanism and a substantially plane portion sloping rearwardly towards said aperture, said opening being substantially unobstructed from the front, and a snow engaging screw conveyor mounted in said casing spaced in



front of the edge of said wall remote from the aperture to turn about a horizontal axis and extending transversely of the casing and in front of said opening at the same level as said sloping portion for conveying snow towards said opening.

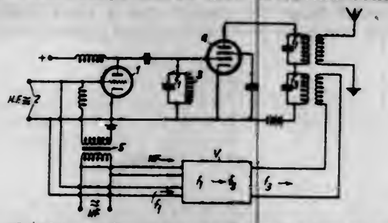
2,285,163
FUEL PUMP
Frank W. Knott and Bernt Garlius, Detroit, Mich.
Application February 26, 1940, Serial No. 320,761
3 Claims. (Cl. 103—152)

1. In a fuel pump having a pumping chamber and pumping means associated therewith, a fluid operated movable element for actuating said pumping means, means for admitting air to one side of said element to actuate the same in one direction, spring means for actuating said element in the other direction, and means defining a fluid circuit common to both sides of said element for venting the same to atmosphere.

2,285,164
RADIO FREQUENCY AMPLIFIER
Wilhelm Kummerer, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application August 24, 1940, Serial No. 354,031
In Germany March 25, 1939
5 Claims. (Cl. 179—171.5)

1. In a radio frequency circuit arrangement, a

high-frequency amplifier, means for feeding a carrier wave to said amplifier, frequency multiplier means for impressing on the output circuit of said amplifier an odd harmonic compo-



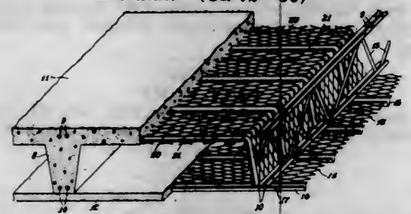
nent of said carrier wave, and means for so controlling the amplitude and phase of said odd harmonic component as to broaden and flatten the fundamental wave peaks derived from said amplifier.

2,285,165

BUILDING FLOOR

Roland Armond Logeman, Normandy, Mo., assignor to Arch-Rib Floors, Incorporated, New York, N. Y., a corporation of New York

Application January 17, 1940, Serial No. 314,220
1 Claim. (Cl. 72—56)



A floor and ceiling construction comprising a plurality of parallel openwork concrete reinforcing trusses too light to support the load without the aid of concrete, an expanded metal ceiling-plaster base suspended from said trusses and spaced away from the bottom thereof, pans arranged between and spaced from said trusses with the edges of said pans spaced laterally away from said trusses and away from the edges of pans on the other side of said trusses and resting upon said ceiling-plaster base thereby leaving the ceiling-plaster base beneath said trusses uncovered by said pans, concrete completely surrounding said trusses and when wet supported on said pans and directly on said ceiling-plaster base beneath the trusses, and a supporting member attached to the bottoms of said trusses and extending transversely thereof and interposed in the space between the bottoms of the trusses and the ceiling-plaster base whereby said trusses may be temporarily supported by posts beneath the points where said supporting member traverses the bottoms of the trusses.

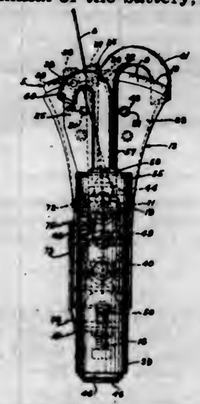
2,285,166

TENSION GAUGE

Eugene L. Malhiot, Maywood, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application January 11, 1940, Serial No. 313,339
5 Claims. (Cl. 265—18)

1. The combination with a mechanical gauge of the type having a scale plate and a leaf spring cooperating with said scale plate of an adapter plate connectible to the scale plate, a pair of contact arms mounted on the adapter plate for engagement by the leaf spring, a lamp and battery holding member on the adapter plate, a battery in said holding member, a lamp in said holding member and having one of its terminals engaging a terminal of the battery, a switch on the



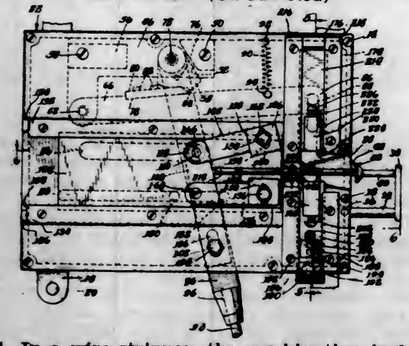
battery holding member for connecting the other terminal of the lamp to the contact arms, and means for connecting the other end of the battery to the leaf spring.

2,285,167

WIRE STRIPPER

Robert J. Montgomery, Chicago, Ill.

Application September 12, 1940, Serial No. 356,494
13 Claims. (Cl. 81—9.51)



1. In a wire stripper, the combination including a stripping instrumentality and a gripping instrumentality, a guideway, means movable in the guideway and mounting at least one of said instrumentalities for movement in a path toward and away from the other instrumentality, a control lever, cam means associated with the lever and engaging one of said instrumentalities to actuate same, means operatively connecting the lever to the first named means, said operatively connecting means being associated with the other instrumentality to move the same toward the work in response to movement of the lever whereby said movement of the lever will cause the second instrumentality to move along said path for stripping the wire.

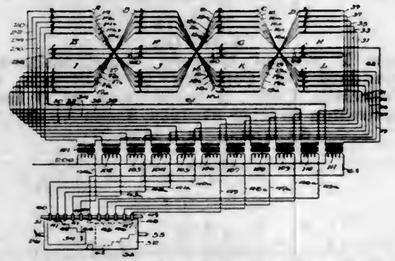
2,285,168

TRAFFIC CONTROL SYSTEM

James Lloyd Peterson, Logan, Utah, assignor of one-half to Weldon Parrish, Logan, Utah, and one-half to Keith L. Stahle, Bountiful, Utah

Application January 23, 1940, Serial No. 315,252
3 Claims. (Cl. 177—337)

1. In a traffic signal system, a series of gaseous discharge tubes, a source of energy, means for intermittently connecting and disconnecting said tubes as a group with said source of energy, a plurality of tubes arranged in parallelism with each other at opposite sides of said series of tubes, and means for alternately connecting and



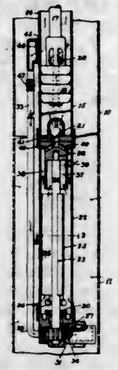
disconnecting the last-mentioned groups of tubes with said source, said last-mentioned means being operable to simultaneously connect all the tubes of a group as said series of tubes is disconnected and to successively disconnect the tubes of each group with the tubes farthest from said series of tubes the last to be disconnected.

2,285,169

WELL PUMP

Howard C. Pyle, Glendale, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

Application June 27, 1938, Serial No. 216,086
12 Claims. (Cl. 103—5)



1. In a pumping well the combination of a well tubing, a pump at the lower end of said tubing, a gas separating chamber connecting with the inlet of said pump, fluid pressure actuated means to agitate liquid in said chamber, means associated with said chamber to separate liquid and gas, means to transfer liquid from which gas has been separated from said chamber to said pump and means for transferring liquid under pressure from said pump to actuate said agitating means.

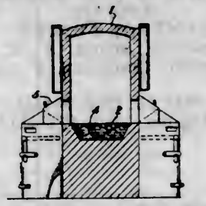
2,285,170

SULPHUR BURNER

Richard E. Pritz, Philadelphia, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application April 13, 1940, Serial No. 329,532
2 Claims. (Cl. 23—278)

1. In a sulphur burner having a pan adapted to hold a body of molten and burning sulphur and clean-out ports the combination therewith of a clean-out box comprising an enclosure, duct-forming means connecting the interior of said enclosure with said clean-out ports, air ducts in said enclosure whereby air may be drawn into



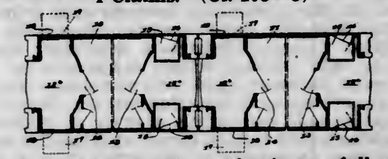
the enclosure up through said duct-forming means and into the burner, and means adjacent said air ducts for holding molten sulphur and residue from the burner until the sulphur is burned therefrom.

2,285,171

PASSENGER RAILWAY ROLLING STOCK

Earl J. W. Ragsdale, Norristown, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application February 24, 1940, Serial No. 320,528
4 Claims. (Cl. 105—8)

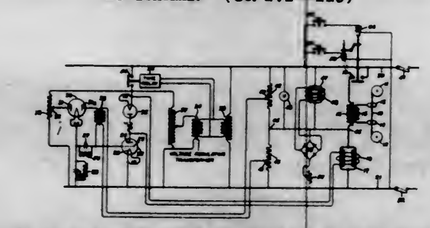


1. A passenger rail car having a full width vestibule for passengers at one end, a full width baggabe compartment and of small longitudinal extent as compared with the overall length of the car at the other end and a passenger compartment extending the entire length between the vestibule and baggage compartment, said passenger vestibule having a full height door, a step well and a trap door therefor in a side wall thereof for the entrance and exit of passengers and said baggage compartment having a full width fixed floor at the floor level of the passenger compartment and having further an opening in its side wall, the bottom of said opening being substantially at the floor level of the baggage compartment, said opening serving as a baggage entrance and discharge opening.

2. A passenger railroad train in which adjoining passenger accommodating cars are each provided with a full width vestibule for passengers, and a baggage compartment of vestibule proportions whose longitudinal extent is small as compared with the overall length of the car, the remainder of the space within the car comprising passenger-accommodation space, the order of succession of said spaces in the individual cars and the relative arrangement of the cars in the train being such that vestibule and baggage spaces adjoin each other, and the passenger accommodation spaces of the train are arranged between successive sets of such adjoining spaces, each said passenger vestibule having a full height door, a step well and a trap door therefor in the side walls of its car for the entrance and exit of passengers, and each said baggage compartment having a full width fixed floor at the floor level of the adjoining passenger space, and having a further opening in its side wall, the bottom of said opening being substantially at the

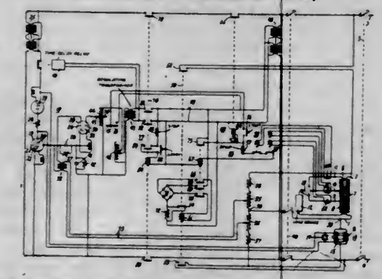
floor level of the baggage compartment, said opening serving as baggage entrance and discharge opening.

2,285,172
CONTROL SYSTEM
Elbert D. Schneider, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application May 25, 1940, Serial No. 337,304
13 Claims. (Cl. 171—119)



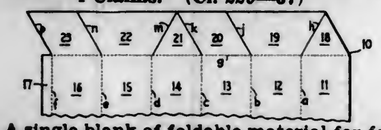
1. A control system comprising a load current supply transformer having primary and secondary windings, a saturable core reactor, a connection between one terminal of said primary winding and one terminal of said reactor, current supply means connected to the other terminals of said primary winding and reactor, a switch in the connection between said primary winding and said supply means, connections for supplying a control voltage, a saturating winding for said reactor, means responsive to the difference between said control voltage and a voltage across said transformer for supplying current to said saturating winding to maintain a predetermined voltage across said transformer, and means responsive to the impedance of said reactor for supplying excitation current to said reactor when said switch is open.

2,285,173
ELECTRIC VALVE CIRCUIT
Elbert D. Schneider, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application August 1, 1941, Serial No. 404,973
11 Claims. (Cl. 171—119)



1. In combination, an alternating current supply circuit, a load circuit, means for controlling an electrical condition of said load circuit, means for controlling said first mentioned means and including an electric valve comprising a control member, an excitation circuit including control means for impressing on said control member a voltage tending to increase the magnitude of said electrical condition and including a movable member, circuit controlling means for connecting said load circuit to said supply circuit, operating means for said circuit controlling means, and interlock means connected between said operating means and said movable member for preventing closure of said circuit controlling means unless said movable member is in a predetermined position.

2,285,174
CARTON
Arthur E. Simons, Berkeley, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
Application October 27, 1939, Serial No. 301,609
4 Claims. (Cl. 229—37)



1. A single blank of foldable material for forming a hexagonal carton, comprising a body portion having six side panels and a glue flap, for forming the six sides of the carton, said side panels and flap being defined from one another by score lines, and a plurality of separate infolding cover-forming tabs extending equidistantly from said panels, two of said tabs being rhombuses, two equilateral triangles, and two isosceles trapezoids, said last named tabs being connected, respectively, to side panels separated by two intermediate panels and adapted to form end-closing tabs overlying all of said cover-forming tabs.

2,285,175
LAMP SOCKET
Oliver H. Sparling, Seattle, Wash., assignor of one-third to W. Paul Heath and one-third to Bertram T. Heinz, both of Seattle, Wash.
Application July 24, 1940, Serial No. 347,252
3 Claims. (Cl. 173—328)



3. In a lamp socket for tube lamps having projecting contact pins at each end, a tubular receptacle having a substantially closed end portion; an end plate telescopically movable within said tubular receptacle in spaced relation from said closed end portion, said movable end plate having two spaced apart holes therein to provide for the passage therethrough of two tube light contact pins; stop means limiting the outward movement of said movable end plate; and two flat resilient contact springs secured within said receptacle resiliently supporting and urging said end plate normally against its said stop means and depressible with said plate means a minimum distance equal to the length of the tube light projecting contact pins, said contact springs being further mounted in alignment with the holes in the said end plate for electrical engagement with the projecting pins of a tube lamp.

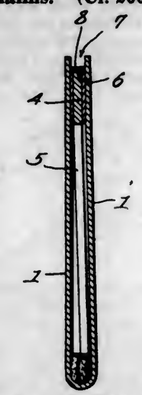
2,285,176
CARD HOLDER
Ewing H. Taylor, Dallas, Tex., assignor to W. S. Carter, Dallas, Tex.
Application March 17, 1941, Serial No. 383,673
2 Claims. (Cl. 248—33)

1. As a new article of manufacture, a card holder comprising a resilient metal strip bent upon itself to define a support, the overlying portion of said support being turned abruptly upward forwardly and downwardly and terminating short of the underlying portion of said support, said underlying portion having its end



turned upwardly and inwardly into a roll in contiguous relation to the terminal of the downwardly bent portion of said overlying portion whereby to hold said downwardly bent portion under tension.

2,285,177
MATCH BOOK
Tilford B. Thompson, Minneapolis, Minn.
Application December 5, 1939, Serial No. 307,693
2 Claims. (Cl. 206—29)

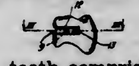


1. A match book including a filler comprising a back portion and matches extending from one edge of the back portion, a striking material on the opposite edge of the back portion, a cover straddling the filler and having its free ends extended in the same direction past the striking material and beyond the back to provide a channel, and a pivotal connection between said end portions of the cover and one end portion of the back of the filler, said filler being mounted to swing about said connection and relative to the cover to expose one or more matches for removal from the back of the filler.

2,285,178
POLYAMIDES COMBINED WITH CELLULOSE DERIVATIVES
Kurt Thinius, Ellenburg, Germany, assignor to Deutsche Celluloidfabrik Aktiengesellschaft, Ellenburg, Germany, a corporation of Germany
No Drawing. Application September 4, 1940, Serial No. 355,404. In Germany July 29, 1939
2 Claims. (Cl. 260—13)

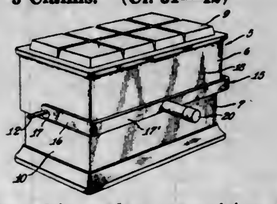
1. The process of forming a mixed solution of a cellulose derivative and a mixed polyamide, said cellulose derivative taken from the class consisting of cellulose esters and cellulose ethers, said mixed polyamide being a polymerized mixed reaction product of (1) a dicarboxylic acid and a diamine of at least 4 carbon atoms between the two amino groups with (2) a substance taken from the group consisting of an ω-amino-carboxylic acid, an ester of an ω-amino-carboxylic acid, a lactam derivative of an ω-amino-carboxylic acid, and an acid chloride derivative of an ω-amino-carboxylic acid, said ω-amino carboxylic acid having at least five carbon atoms between the amino and carboxyl groups, which comprises dissolving said mixed polyamide in ethylene chlorohydrine to form a substantially saturated solution of said polyamide, diluting said solution with from two to ten times the amount of said solution of a substance taken from the group consisting of ethyl alcohol, methyl ether of ethylene glycol and ethyl ether of ethylene glycol, and dissolving said cellulose derivative in said diluted solution.

2,285,179
ARTIFICIAL TOOTH
Frédéric Tryfus, Paris, France, assignor to Bioform Dental Corporation, New York, N. Y., a corporation of New York
Application July 27, 1938, Serial No. 221,596
In France August 3, 1937
2 Claims. (Cl. 32—10)



1. An artificial tooth comprising a body provided with a conical recess having walls converging and radially extending into said body, said recess having an open end disposed at the lingual face of said body and an enlarged end within said body, and a groove extending from said open end in the outer face toward the sides of said body, said groove being defined by upper and lower walls of uniform depth and by end walls substantially coextensive with the enlarged end of said recess, the axis of said recess being inclined with respect to the axis of said groove and intersecting said axis of said groove substantially at said open end.

2,285,180
BUTTER CHIP MAKER ATTACHMENT
Maurice J. Weinberg, New York, N. Y.
Application July 28, 1941, Serial No. 404,402
3 Claims. (Cl. 31—42)

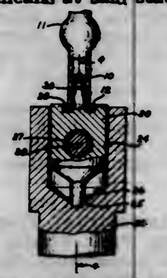


1. A butter chip maker comprising in combination, a frame, a second frame slidably engaging the walls of the first frame, said second frame forming with an upper portion of the first frame a receiving chamber for a print of butter, a transverse rod extending through aligned openings formed in each end of said frame for adjustably supporting said second frame in varying position relative to said first frame, a pin extending from one wall of said second frame, and means slidably disposed on said pin for actuating said rod to vary the size of the receiving chamber.

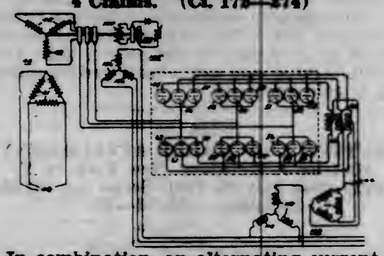
2,285,181
GLASS WORKING MACHINE
William B. Wines, Downers Grove, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application August 23, 1940, Serial No. 353,849
6 Claims. (Cl. 49—7)

1. In a machine for making filament support-

ing stems for electric lamps, a carrier supporting a series of holders, each adapted to hold a stem tube, said carrier being intermittently movable to advance said holders, one at a time, to a stem shaping station, means at said station for shaping each stem tube, a support loosely mounting said shaping means, and means on said shaping means adapted to enter each stem tube to properly position said shaping means with respect to each stem tube.



2,285,182
ELECTRIC MOTOR CONTROL SYSTEM
Ernst F. W. Alexanderson, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Original application October 19, 1937, Serial No. 169,844. Divided and this application November 14, 1940, Serial No. 365,635
4 Claims. (Cl. 172—274)



1. In combination, an alternating current circuit, an induction motor including inducing and induced windings, said inducing winding being connected to said circuit, a second alternating current circuit, electric valve frequency changing means connected between said induced winding and said second circuit for transmitting power therebetween, said electric valve frequency changing means having a control member for controlling the current transmitted thereby, an alternating current machine mechanically coupled to said motor and comprising armature and excitation circuits, said armature circuit being connected to said second circuit, means for impressing on said control member a voltage which varies in response to the speed of said motor, and means for controlling the armature voltage of said alternating current machine to control an electrical characteristic of said motor.

2,285,183
METHOD OF DRYING INK
Dominic J. Bernardi, Astoria, N. Y., assignor to Interchemical Corporation, New York, N. Y., a corporation of Ohio
No Drawing. Application November 1, 1940, Serial No. 363,913
4 Claims. (Cl. 101—416)

1. The method of setting a film of typographic printing ink containing a prolamine dissolved in a water-miscible solvent substantially non-volatile at 25° C., which comprises adding to the ink film sufficient water to precipitate the prolamine in the form of an irreversible gel.

2,285,184
PEST CONTROL
Euclid W. Bousquet, Wilmington, and Hubert G. Guy, Newark, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 10, 1941, Serial No. 373,959
22 Claims. (Cl. 167—30)

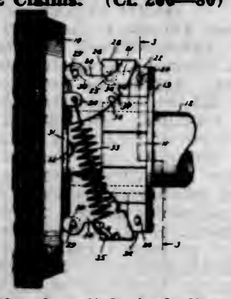
1. An insect control composition containing as an essential active ingredient a 2-alkenyl thiocarbamide of an amine selected from the class consisting of aromatic and cycloaliphatic amines.

2,285,185
LAGGING FOR REELS
Arthur A. Bureau, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application September 12, 1940, Serial No. 356,446
5 Claims. (Cl. 206—59)



1. In combination, a reel having spaced heads, a lagging for said reel, each lag comprising an integral inverted box-like member of sheet metal having a top portion forming an outer surface, opposite reinforced side walls extending from said top portion each comprising a plurality of thicknesses of metal, lower edges of said side walls adapted to transversely span and rest upon the peripheries of the spaced reel heads, and opposite end walls extending from said top portion and arranged outside of said side wall lower edges and overlapping and contacting the outer peripheral edges of the reel heads to prevent shifting of the lag transversely on the reel heads.

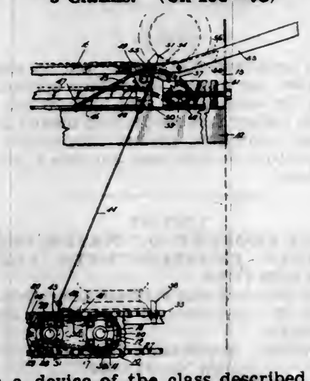
2,285,186
CENTRIFUGAL SWITCH
Bernard M. Cain, Marblehead, Mass., assignor to General Electric Company, a corporation of New York
Application October 4, 1940, Serial No. 359,728
12 Claims. (Cl. 200—80)



1. A centrifugal switch including an axially

movable collar, a supporting plate, outwardly movable weights, means for operatively connecting said weights to said collar, means for movably mounting said weights on said supporting plate, resilient means connected to each of said weights and to said supporting plate for resisting outward movement of said weights, stops on said weights, means on said collar for cooperating with said stops so that the biasing force of said resilient means is substantially absorbed through said collar when said weights are in their inward position, and a circuit controlling device arranged to be actuated by said collar.

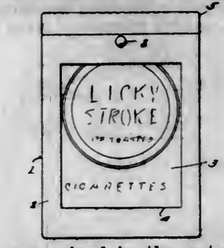
2,285,187
COVER AND CAN HANDLING DEVICE
Willard S. Campbell, Hampshire, Ill., assignor, by mesne assignments, to Cherry-Burrell Corporation, Chicago, Ill., a corporation of Delaware
Application November 13, 1940, Serial No. 365,435
3 Claims. (Cl. 198—75)



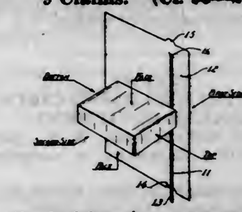
1. In a device of the class described, a frame having an entrance, a lower level track attached to and within said frame and having a conveyer chain mounted thereon, said combined track and chain being adapted to receive and carry cans, an upper level track attached to and within said frame and having a conveyer chain mounted thereon, said combined track and chain being adapted to receive and carry can covers, a lower lever movably attached to said frame adjacent the lower level track, an upper lever movably attached to said frame adjacent said upper level track, said upper lever normally in upright position to prevent the passage of a cover thereby, a connecting member extending between said levers, said lower lever normally in upright position and adapted upon being contacted by a can passing on said lower level track to move to horizontal position and through said connecting member to move said upper lever to horizontal position to permit a cover to pass thereby, and a spring attached to said connecting member and said frame and adapted upon the can passing said lower lever and releasing contact thereon to move said connecting member to return said lower lever to upright position and to also return said upper lever to upright position to prevent another cover from passing thereby.

2,285,188
CIGARETTE OPENER AND CARRIER
John J. Cobbs, Roanoke, Va.
Application June 10, 1941, Serial No. 397,493
5 Claims. (Cl. 30—2)

1. A cigarette package slitter comprising a support having a slot provided at its outer end with an extension, a slide mounted to move on the support, a cutter carried by the slide, spring means for retracting the slide, and a button on the slide and mounted to move in the slot, the button being received in the extension, to hold the slide and the cutter advanced, against the effort of the spring means.



2,285,189
METHOD OF MAKING PACKAGES PROVIDED WITH TEARING STRIPS
Edward F. Cornock, Springfield, Mass., assignor to Package Machinery Company, Springfield, Mass., a corporation of Massachusetts
Application December 10, 1940, Serial No. 369,382
9 Claims. (Cl. 93—2)

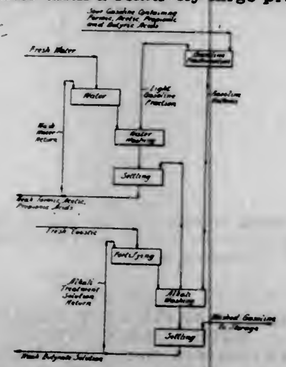


1. A method of forming a wrapped article having a tearing strip located to remove the folded top of the wrapper while leaving the remainder of the wrapper in pouch form on the article, which comprises folding against one side and two adjacent faces of an article a wrapper having sufficient marginal excess to form overlapping folds on the opposite side and on the top and bottom of the article, said wrapper having affixed to its inner surface a tearing strip positioned to extend across a first side and the two faces of the article at a distance from the top of the article less than the marginal excess of the wrapper and to project from the first face beyond one end of the wrapper, folding and securing the wrapper in overlapping folds upon the top and bottom of the article and thus forming a tubular wrapper extension beyond the second side of the article, tucking those portions of the wrapper extension adjacent the top and bottom of the article against the second side to form opposed flaps extending from both faces of the article with the tuck adjacent the top folded unsymmetrically to bring the lateral outer corner of that flap including the projecting end of the tearing strip outside the tearing strip and to bring the lateral outer corner of the opposite flap inside the line of the tearing strip, and folding and securing said flaps in overlapping relation upon said second side of the article.

2,285,190
PETROLEUM REFINING
Wallace A. Craig and Paul C. Rich, Los Angeles, Calif., assignors to Richfield Oil Corporation, Los Angeles, Calif., a corporation of Delaware
Application February 17, 1940, Serial No. 319,437
5 Claims. (Cl. 196—41)

1. In the treatment of a petroleum hydrocar-

bon product containing formic acid, acetic acid and a butyric acid, said treatment involving contact of the hydrocarbon product with metal, the improvement which comprises washing the product with water until a relatively large proportion



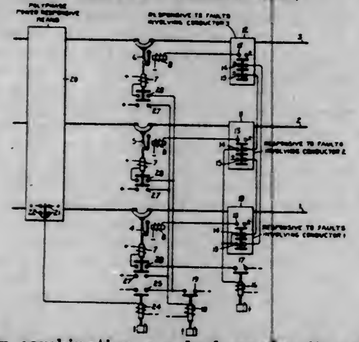
of the formic acid and the acetic acid are extracted while a relatively large proportion of the butyric acid is left in the product, thereby reducing the corrosive action of the product upon the metal in the presence of water.

2,285,191

AUTOMATIC RECLOSING CIRCUIT BREAKER EQUIPMENT

Selden B. Crary, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application December 28, 1940, Serial No. 372,103
10 Claims. (Cl. 175—294)



1. In combination, a polyphase circuit, a single pole circuit breaker in series with each phase conductor of said circuit, means for opening each breaker in response to a fault involving the associated phase conductor, and means for reclosing a circuit breaker after a time interval which depends upon the number of phase conductors involved in the fault.

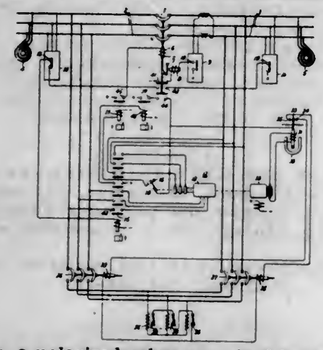
2,285,192

CONTROL EQUIPMENT

Selden B. Crary, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application October 21, 1941, Serial No. 415,918
7 Claims. (Cl. 171—97)

7. In combination, two interconnected independently energized alternating current circuits, protective means for disconnecting said circuits from each other, a load, a separately excited direct current generator, means for driving said generator at a speed proportional to the frequency difference of said circuits when disconnected from each other, and in a direction dependent upon the relative frequencies of said



circuits, a polarized relay energized by said generator, switching means selectively controlled by said relay for connecting said load to the circuit having the higher frequency, and means for rendering said switching means inoperative when the temperature of said load exceeds a predetermined value.

2,285,193

REACTION PRODUCT OF WATER-SOLUBLE DEGRADED PROTEINS WITH PHENOLS AND ALDEHYDES

Lloyd Emil Dimond and William Llewellyn Hicks, Chicago, Ill., assignors to Carl Marx, Chicago, Ill., a trustee

No Drawing. Application January 12, 1940, Serial No. 313,560
25 Claims. (Cl. 260—7)

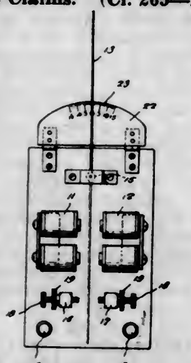
1. An artificial resin product comprising the reaction product of water-soluble slightly acid-reacting degraded protein with a phenol and an aldehyde.

2,285,194

ELECTRIC TESTING DEVICE FOR CONTACTS

John J. Buda, Jr., Brookfield, Ill.

Application October 25, 1941, Serial No. 416,575
3 Claims. (Cl. 265—18)



1. In a contact testing device, a base, a vibrator reed carried by the base and adapted to give variations in tone and have the free end thereof manually engaged with a contact to be tested, means carried by said base for vibrating said reed,

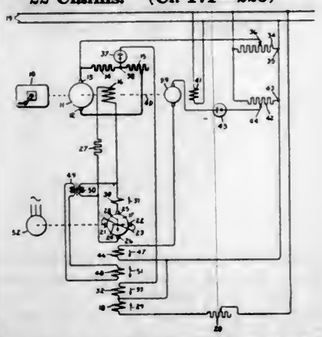
and a scale associated with the reed to indicate the amount of tension placed on the contact by said reed, the reed indicating by tone when disengagement of the contact from its companion contact takes place by the increased tension placed thereon manually through said reed.

2,285,195

ELECTRICAL SYSTEM

Martin A. Edwards, Scotia, N. Y., assignor to General Electric Company, a corporation of New York

Application January 1, 1942, Serial No. 425,313
22 Claims. (Cl. 171—223)



1. An electrical system including a main generator having a field exciting winding, a main exciter having an armature provided with a winding and a commutator connected thereto, a set of primary brushes and a set of secondary brushes displaced about said commutator from said primary brushes for providing a primary circuit and a secondary circuit respectively through said armature, means for electrically connecting together said primary brushes to complete said primary circuit, means for connecting said secondary brushes to said main generator field exciting winding, means including a main field exciting winding for said main exciter for providing a component of excitation thereto along the secondary commutating axis thereof, means for providing a component of excitation to said main exciter along the secondary commutating axis thereof in opposition to said main exciter first field exciting winding above a predetermined main generator speed responsive to the speed of said main generator, and means including a second field exciting winding for providing a component of excitation responsive to the load current of said main generator and along the secondary commutating axis of said main exciter in opposition to said main field exciting winding.

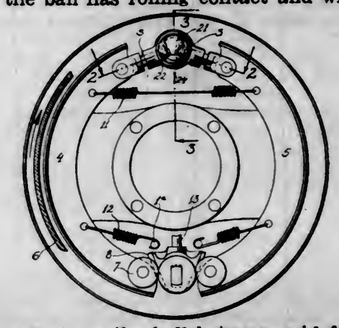
2,285,196

BRAKE

Theodore J. Estaque, Los Angeles, Calif.

Application June 29, 1940, Serial No. 343,193
8 Claims. (Cl. 188—79.5)

1. A brake having shoes provided with a shiftable connection including a pair of endwise-movable plungers arranged substantially end to end and engaging the shoes respectively, stationary means embracing and guiding said plungers and provided with an elongated opening, parallel to the axis of the brake, into which the adjacent ends of the plungers extend, the adjacent faces of the plungers having converging wedge faces, a ball normally engaging said faces and the wall of the opening, and a thrust member mounted in the stationary member and adjustable in a direction paralleling the brake axis and with which the ball has rolling contact and which is



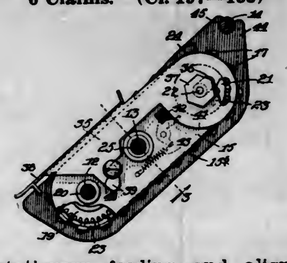
operable to force the ball between said faces to wedge the plungers apart to adjust the shoes for wear.

2,285,197

FEEDING UNIT FOR TABULATING MACHINES

John E. Euth, Chicago, Ill., assignor to United Autographic Register Co., a corporation of Illinois

Application January 6, 1941, Serial No. 373,372
6 Claims. (Cl. 197—133)



1. A stationery feeding and aligning unit, adapted to be carried by the frame of a machine, comprising: a housing provided with a pair of pulleys carrying an endless belt conveyer provided with outwardly extending register pins; a guide member to direct stationery into feeding engagement with said pins, said guide member being pivotally mounted on a shaft extending through the housing to permit it to be turned away from operative position to facilitate loading; and spring-held latching means for releasably holding the guide in operative position.

2,285,198

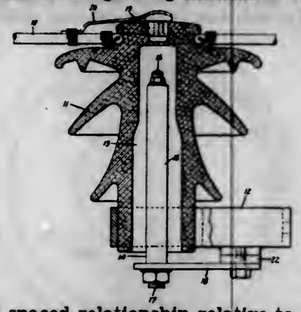
LIGHTNING ARRESTER

Nicolai Fitger, Berlin-Grunewald, Germany, assignor to General Electric Company, a corporation of New York

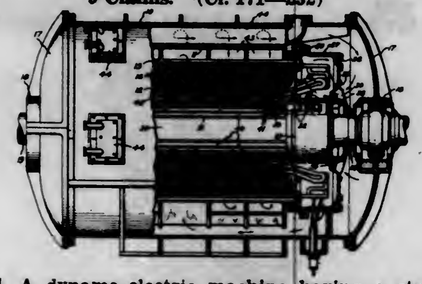
Application August 7, 1940, Serial No. 351,738
In Germany October 12, 1939
4 Claims. (Cl. 175—30)

1. In combination with an insulator for supporting at one end a line to be protected against over voltages and having a longitudinal opening therethrough, a lightning arrester arranged within said opening and having electrodes at opposite ends, one end electrode being spaced by a gap from said line, a bracket member for supporting said insulator, an arm removably supported by said bracket and being grounded therethrough, the opposite end electrode of said light-

ning arrester being supported by said arm so as to maintain said lightning arrester in a predetermined spaced relationship relative to said insulator and to provide a grounding connection to said opposite end electrode.

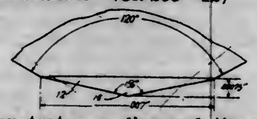


2,285,199
DYNAMOELECTRIC MACHINE
Edward H. Freiburghouse, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application May 2, 1941, Serial No. 391,511
9 Claims. (Cl. 171—252)



1. A dynamo-electric machine having a stationary member and a rotatable member with ventilating passages therethrough, a ventilating medium impeller on said rotatable member, means including a stationary end shield member having hollow guide vanes with openings therebetween for guiding a ventilating medium to the intake side of said impeller, a chamber formed by said end shield about an end of said rotatable member communicating with said rotatable member ventilating passages, and means including the arrangement of said hollow guide vanes and said end shield wherein the interiors of said vanes communicate with said chamber and with the interior of said dynamo-electric machine on the exhaust side of said impeller for conducting ventilating medium to said chamber.

2,285,200
PENETRATOR
Folliard F. Gilmore, Wellesley, Mass.
Original application June 10, 1939, Serial No. 278,522. Divided and this application August 7, 1940, Serial No. 351,713
2 Claims. (Cl. 265—12)



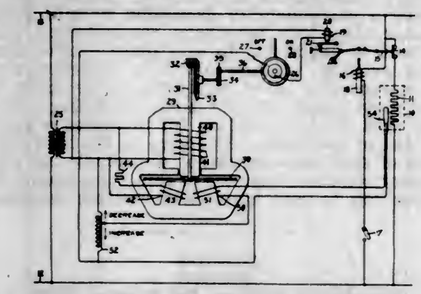
2. In a penetrator, a diamond tip shaped to form a double cone, comprising a main cone having an angularity of about 120° and an end cone at the extremity of the tip having an angularity of from 146° to 165° and a base diameter of approximately .007 inch.

2,285,201
DYNAMOELECTRIC APPARATUS
Robert W. Groot and Lawrence F. Hemphill, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Original application September 22, 1939, Serial No. 296,087, now Patent No. 2,264,076, dated November 25, 1941. Divided and this application August 5, 1941, Serial No. 405,470
1 Claim. (Cl. 171—321)



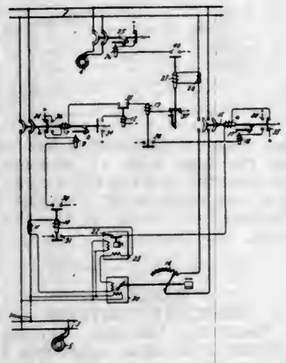
A commutator comprising a plurality of copper shells each having a yoke for supporting commutator bars and providing cross connections, each shell having wings connected to the yokes and serving to form commutator bars, said shells being assembled with the yokes axially stacked and the segment-forming wings angularly interleaved, said yokes being secured together with a common support and insulated from each other, and said segments being spaced to avoid electrical contact.

2,285,202
PROTECTIVE SYSTEM
Chester I. Hall, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application March 14, 1941, Serial No. 383,305
9 Claims. (Cl. 175—294)



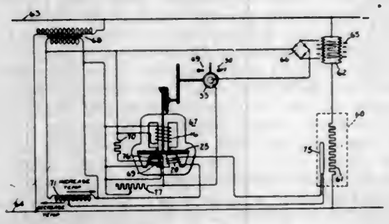
1. In an over-temperature protective system, an induction relay comprising a rotatable armature, a pair of relay windings for producing a torque upon said armature independent of temperature, a second pair of relay windings for producing an oppositely directed torque upon said armature, and a resistor having a high negative temperature coefficient of resistance connected in circuit with one winding of said second pair of windings to control the magnitude of said oppositely directed torque, said resistor being so positioned that it is subject to the temperature being controlled.

2,285,203
CONTROL EQUIPMENT
Francis A. Hamilton, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 21, 1941, Serial No. 415,928
11 Claims. (Cl. 171—97)



11. In combination, two alternating current systems, a source connected to one of said systems, a tie circuit connecting said systems, a load normally disconnected from said systems, means responsive to a fault on said systems for effecting the opening of said tie circuit and the connection of said load to said one of said systems and the subsequent re-establishment of said tie connection and the disconnection of said load from said one of said systems, and means responsive to a fault in said load while connected to said one of said systems for effecting the disconnection of said source from said one of said systems and for preventing the subsequent re-establishment of said tie connection.

2,285,204
CONDITION CONTROL SYSTEM
Chester I. Hall, Schenectady, and Fredrick S. Marcellus, Scotia, N. Y., assignors to General Electric Company, a corporation of New York
Application April 1, 1941, Serial No. 386,314
23 Claims. (Cl. 236—15)

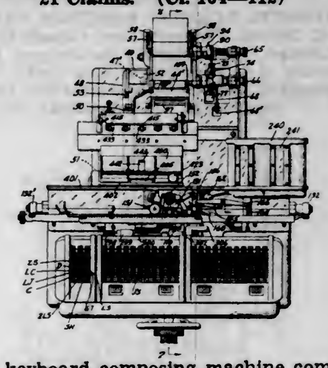


22. The method of maintaining substantially constant a condition comprising continuously oscillating a control member between spaced condition increasing and condition decreasing positions, maintaining constant the speed of movement of said control member in each direction while said condition remains unchanged, and varying inversely the speeds of movement of said control member in opposite directions whenever said condition departs from its normal value.

2,285,205
HARD METAL BODY
Josef Hinnüber, Essen, Germany, assignor to General Electric Company, a corporation of New York
No Drawing. Application June 8, 1940, Serial No. 339,593. In Germany July 24, 1939
2 Claims. (Cl. 51—309)

1. A tool comprising a ring-shaped diamond impregnated tool bit sintered to a separately formed sintered supporting shank, said bit consisting of a hard metal body and said shank consisting of about 38 to 45% nickel with the remainder substantially all iron.

2,285,206
KEYBOARD COMPOSING MACHINE
Mauritz C. Indahl, Rydal, Pa., assignor to Lanston Monotype Machine Company, Philadelphia, Pa., a corporation of Virginia
Application September 14, 1940, Serial No. 356,811
21 Claims. (Cl. 164—112)

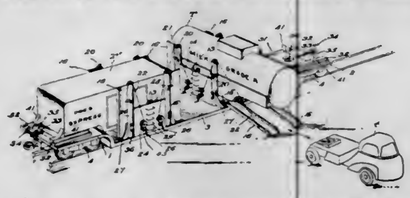


1. A keyboard composing machine comprising keys, valve bars, selective means for advancing the valve bars coresponding to the keys struck, a single stroke motor comprising a cylinder provided with suitable inlet and exhaust ports and a piston therein, a valve for controlling admission of air under pressure to said cylinder, a second valve for controlling the exhaust of air therefrom, means connected with a key for moving said valves in position to operate the motor, a spring for returning said valves to normal, exhaust position when the key is released, said valves being each independently adjustable to attain a fine regulation for the admission and exhaust of air necessary to high speed operation, a plunger valve for each valve bar, means for operating by the motor the plunger valves corresponding to each advanced valve bar, means for producing signal perforations in a record strip for each operated plunger valve and means for operating the motor when a key is struck.

2,285,207
RAILWAY CAR
Joseph F. Johnson, Chester, N. Y.
Application May 1, 1940, Serial No. 332,624
4 Claims. (Cl. 105—366)

1. A railway car of the well type comprising raised ends and a depressed intermediate portion with trucks beneath the raised ends, at least one deck mounted for rotation on the depressed portion of the body, ramps pivotally secured to two opposite sides of the deck and adapted to be lowered from a point inboard of the car into contact with the ground to permit a trailer to

be wheeled on to or off of the deck, means on at least one raised end of the car to anchor the forward end of a trailer thereto when the trailer is on the deck with its axis located longitudinally



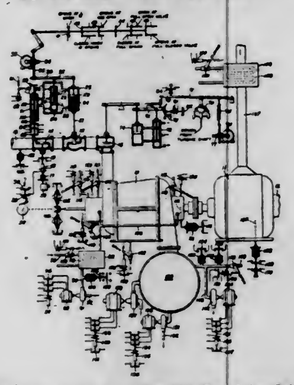
of the car, and operative connections between the ramps and the rotatable deck to guide the ramps into alinement with the wheels of a trailer on the deck when said ramps are lowered into engagement with the ground.

2,285,208

AUTOMATIC TURBINE CONTROL SYSTEM

Tracy E. Johntz, Wilmette, and Claude W. Place, La Grange, Ill., assignors to General Electric Company, a corporation of New York

Application April 10, 1940, Serial No. 328,848
28 Claims. (Cl. 290—40)



1. In combination an elastic fluid turbine, valve means for admitting operating fluid to said turbine, means for adjusting said valve means in the open direction for accelerating said turbine slowly from standstill to normal running speed, governor means for regulating the flow of operating fluid to said turbine during normal running operation of said turbine, means for restraining said governor means in a predetermined intermediate position during the starting of said turbine, and means rendering the restraining means ineffective and to permit operation of the governor means at a predetermined turbine speed.

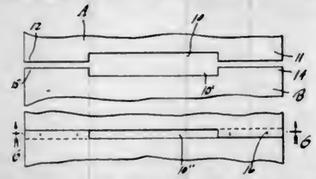
2,285,209

CONNECTING STRIP ENDS IN MAKING TUBE

Albert Katz, Detroit, Mich., assignor to Bundy Tubing Company, Detroit, Mich., a corporation of Michigan

Application February 12, 1940, Serial No. 318,584
7 Claims. (Cl. 29—188)

1. In the making of tube from strip metal stock wherein the stock is moved longitudinally and fashioned into tube with a wall of double thickness having inner and outer plies, the method of joining the trailing end and the leading end of successive strips which comprises fashioning said ends with relatively longitudinally projecting and receding parts, overlapping the projecting parts, securing the overlapping parts together, thereby forming a double stock thickness at the overlap, with the relatively receding parts



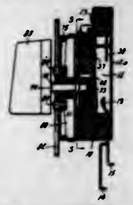
forming an opening, fashioning the strip stock into double ply tube with an overlapping part lying in the opening whereby the wall at the joint between the two ends is of a double thickness and substantially the same as the thickness of the tube wall.

2,285,210

ELECTRIC SWITCH

Leslie A. Kempton, Chicago, Ill., assignor to Edison General Electric Appliance Company, Inc., Chicago, Ill., a corporation of New York

Application September 28, 1940, Serial No. 358,860
5 Claims. (Cl. 200—6)



1. A multi-position multi-pole switch comprising an insulating supporting panel, a plurality of resilient contact fingers mounted on said panel, a plurality of pairs of relatively movable contacts comprising relatively fixed contacts mounted on said panel and relatively movable contacts carried by said contact fingers, said pairs of contacts including at least one pair of arcing contacts and at least one pair of non-arcing contacts, means comprising a rotary operating cam having cam surfaces for actuating said fingers to close said pairs of contacts when said cam is rotated, said cam having at least one switch closing position in which a plurality of pairs of said contacts including at least one pair of arcing contacts and one pair of non-arcing contacts are closed to effect a multi-pole switching function, said cam surfaces being arranged so that upon movement of said cam to said switch closing position the arcing contacts are closed subsequent to the non-arcing contacts and upon movement of said cam from said switch closing position said arcing contacts are opened prior to said non-arcing contacts whereby arcing occurs only at said arcing contacts.

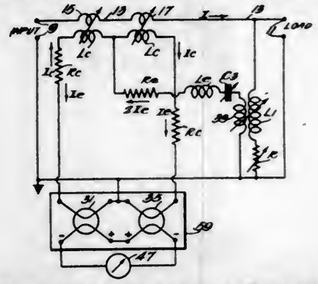
2,285,211

RADIO FREQUENCY WATTMETER

Nathaniel I. Korman, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application September 28, 1940, Serial No. 358,793
7 Claims. (Cl. 171—95)

1. A radio frequency wattmeter comprising coupling means for connection in series with a radio frequency power circuit energizing a load, current pickup means coupled to said coupling means, a pair of current responsive devices connected in series with said pickup means, said series connection including resistance and inductance, capacitive voltage pickup means connected across said power circuit, a resistor for adjusting



the phase of the voltage developed by said capacitive voltage pickup means, a circuit for applying said voltage between a point intermediate the ends of said current pickup means and a point intermediate said pair of current responsive devices, the phases of said voltage pickup circuit and said current pickup circuit being adjusted to equality.

2,285,212

DECORATIVE MATERIAL

Ada La May, Mount Vernon, Ohio, assignor to Shellmar Products Company, Mount Vernon, Ohio, a corporation of Delaware

Application March 21, 1941, Serial No. 384,493
2 Claims. (Cl. 40—2)



1. A decorative holiday package and product strip for Easter eggs and the like, including a strip of cellulose sheeting wrapped around said package containing said product with its ends overlapped and secured together, a series of appropriate holiday designs adjacent each other along said strip for decorating said product, dividing guide lines between adjacent designs, a thermoplastic coating on the portion of said strip carrying said designs, said coating being non-adherent to said package at normal temperatures, said designs being severable along said guide lines on removal of said strip from said package and adherent to said product through said coating on heating said product to an abnormal temperature.

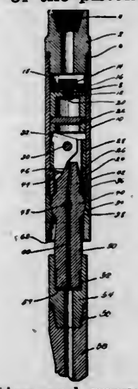
2,285,213

KNUCKLE JOINT

Franklin L. Le Bus, Longview, Tex.

Application July 30, 1941, Serial No. 404,737
9 Claims. (Cl. 294—86)

1. A knuckle joint for well fishing tools comprising a housing adapted to be secured to the lower end of a drill stem, a piston disposed in the housing adapted to be moved by fluid circulation, an apertured stud secured to the top of the piston to regulate the passage of fluid therethrough and determine the downward force of the piston, pivotal means responsive to the vertical downward movement of the piston for movement through an arc of a circle, and means disposed transversely of the piston adapted to re-



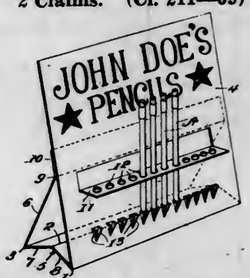
tard fluid circulation and prevent washing out of the pivotal means.

2,285,214

DISPLAY DEVICE

Dallas V. Lisle, Pittsburgh, Pa.

Application December 16, 1940, Serial No. 370,390
2 Claims. (Cl. 211—69)



1. A display device comprising a relatively large front portion, a relatively narrow base portion including upwardly foldable hinge sections and hinged to the lower edge of the front portion for disposal rearwardly therefrom, a brace portion hinged to the rear edge of the base portion, hinge means formed on the brace portion and fixed to the rear face of the front portion for cooperation with the base and brace portions to support the device in displayed position with the front portion at a rearward inclination, a flap struck from the front portion and extending forwardly therefrom in a horizontal plane, said flap having openings therein arranged in row formation, means struck from the front portion below the flap to provide pockets aligned with the openings for cooperation therewith to receive and support articles to be displayed.

2,285,215

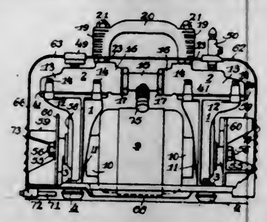
FLUID COMPRESSOR

August J. Lotz, Chicago, Ill., assignor to Binks Manufacturing Company, Chicago, Ill., a corporation of Delaware

Application June 8, 1939, Serial No. 278,042
12 Claims. (Cl. 230—211)

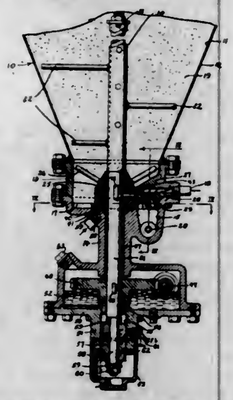
1. A fluid compressor comprising spaced supporting standards having basal supporting feet and intermediate mounting hubs, pumps rigidly mounted on said standards and comprising pistons with connecting rods and fluid admission

and discharge chambers, a fluid duct between and connected to said discharge chambers to form a rigid reinforcing part thereof, a motor having a housing provided with hubs for fitting in said mounting hubs, means for securing said motor housing hubs in said mounting hubs, said motor with its housing and hubs, said supporting standards with their mounting hubs, said pumps, and



said duct, all being rigidly secured together and constituting a rigid unitary structure, said motor comprising a shaft having free end portions rotatably supported in said motor housing and freely extending exteriorly beyond the same and said mounting hubs, means connected to said free end portions of said shaft and to said connecting rods for freely reciprocating said rods when said shaft rotates.

2,285,216
APPARATUS FOR FEEDING PULVERULENT MATERIAL
Eric Lundgren, Braddock Heights, Md., assignor to E. B. & A. C. Whiting Company, Burlington, Vt., a corporation of Vermont
Application August 31, 1940, Serial No. 355,010
2 Claims. (Cl. 302—49)



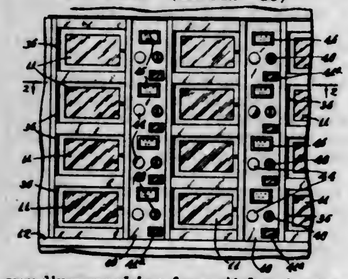
1. In an apparatus for feeding finely divided matter from a bulk mass into a conduit comprising a bottomed hopper, means defining a chamber communicating with said conduit and having a mouth opening into the bottom of said hopper, a spider having a hub rotatively disposed in the bottom of said hopper for displacing portions of said finely divided matter over the bottom of said hopper to a space above the mouth of said chamber, and a journalled shaft for driving said spider piercing said hopper bottom, the improvement comprising a spider hub and a hopper bottom having circular registering grooves concentric with and spaced from said shaft, and means for admitting air under pressure into said grooves, to prevent the entrance of finely divided matter thereinto.

2,285,217
CONFINING GARMENT
Joseph A. Martin, Elizabeth, N. J., assignor to Flexnit Company, Inc., a corporation of New Jersey
Application June 13, 1940, Serial No. 340,263
3 Claims. (Cl. 66—176)



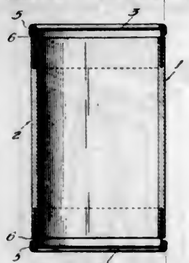
1. A seamless knitted girdle comprising a unitary sheath or tube of knitted stretchable fabric, a free end of the girdle having a tendency to curl or roll over upon itself when the girdle is worn, said fabric having an outer web and an inner web interknit along alternate wales to form a double faced fabric, one set of alternate wales constituting the outer web of the fabric and the other set of wales constituting the inner web of the fabric, said inner and outer webs being interknit throughout the girdle at alternate wales except at selected spaced portions thereof adjacent said free end of the girdle to form thereat separated knitted outer and inner webs of fabric constituting the walls of spaced pockets extending down from the free end of the girdle a selected distance, and a stiffening means arranged in and encased by each pocket whereby said free end of the girdle is prevented from curling or rolling over upon itself when the girdle is worn.

2,285,218
AUTOMATIC VENDING DEVICE
Abraham Meyers, Brooklyn, N. Y.
Application December 6, 1940, Serial No. 368,817
9 Claims. (Cl. 312—35)



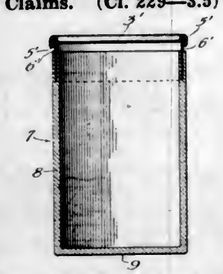
1. A vending machine for articles, food and the like, comprising a wall having a plurality of doors in a vertical line, a turn table behind said wall and having a separate shelf portion for each door, a vertical shaft having its top end mounted on the bottom of said turntable and extended downwards for rotatively supporting said turntable, a top clutch member mounted on the bottom end of said vertical shaft, means for rotating said vertical shaft including a bottom clutch member engaging said top clutch member, means for lifting said vertical shaft a small distance to disengage said clutch members, and means for operating said lifting means when one of said doors is opened.

2,285,219
CONTAINER AND METHOD OF MAKING THE SAME
Jacque C. Morrell, Oak Park, Ill.
Application May 25, 1938, Serial No. 209,949
12 Claims. (Cl. 229—5.7)



1. A container having a lateral wall, a metal top and a bottom comprising the end closures of said container, said wall being made of a fibrous base and a synthetic plastic binder, the opposite ends of said wall having a metal collar embedded therein and projecting therefrom, said top and bottom being secured to said respective collars by crimping said top and bottom upon the free end of said collars, said crimped portion being positioned wholly beyond the adjacent end of the wall in non-embracing relation with respect to said wall, the binder in said wall functioning to seal said collars in said wall and said collars being held to said wall substantially solely by the embedded ends of the said collars.

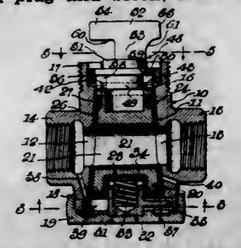
2,285,220
CONTAINER
Jacque C. Morrell, Oak Park, Ill.
Application July 28, 1941, Serial No. 404,373
3 Claims. (Cl. 229—3.5)



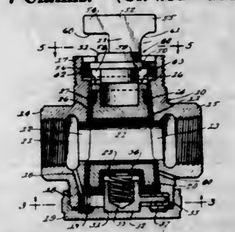
1. A container having a lateral wall, a metal top and a bottom comprising the end closures of said container, said wall consisting substantially wholly of a plastic material the opposite ends of said wall having a metal collar embedded therein and projecting therefrom, said top and bottom being secured to said respective collars by crimping said top and bottom upon the free end of said collars, said crimped portion being positioned wholly beyond the adjacent end of the well in non-embracing relation with respect to said wall, the plastic material in said wall functioning to seal said collars in said wall and said collars being held to said wall substantially solely by the embedded ends of the said collars.

2,285,221
VALVE
Frank H. Mueller, Decatur, Ill., assignor to Mueller Co., Decatur, Ill., a corporation of Illinois
Application June 7, 1940, Serial No. 339,367
1 Claim. (Cl. 251—112)

A valve comprising a casing providing a conical seat, a rotary conical plug in said casing, said casing including a closure cap spaced from the large end of said plug, an axial recess in the large end of said plug, a block having one end slidably but non-rotatably received in said recess, said cap having a recess providing a journal and thrust bearing in which the other end of said block is received, a compression spring between said plug and block, there being a substantial clearance at the extremity of said block which is in said first named recess when said plug is seated by the action of said spring, a radial arm on said block, stops in said casing with which said arm is cooperable to limit turning movement of said plug, and means for axially displacing said plug against said spring as permitted by said clearance and for then turning the plug.



2,285,222
VALVE
Frank H. Mueller, Decatur, Ill., assignor to Mueller Co., Decatur, Ill., a corporation of Illinois
Application October 31, 1940, Serial No. 363,777
7 Claims. (Cl. 251—103)

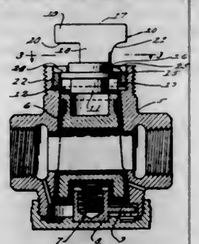


1. A valve comprising a body having a seat of circular cross section and opposite inlet and outlet ports communicating with said seat, and a rotary plug cooperating with said seat and having a diametrical flow passage, said plug being provided with a blind axially extending groove adapted to connect said outlet port with a downwardly directed duct in said casing when said plug is in closing relation to said ports, said plug comprising a metal core and a sheathing of rubber on said core, said core having a depression into which said sheathing is set to form said groove.

2,285,223
ROTARY OPERATOR AND RETAINER RING ASSEMBLY
Frank H. Mueller, Decatur, Ill., assignor to Mueller Co., Decatur, Ill., a corporation of Illinois
Application December 6, 1940, Serial No. 368,938
7 Claims. (Cl. 74—548)

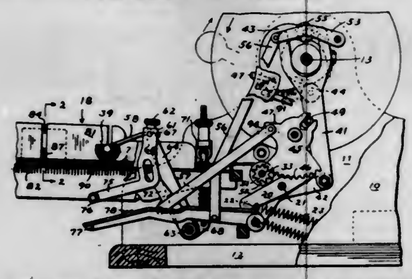
1. An assembly comprising a rotary operator member formed integrally with a circular flange and with a T-head including a cross portion and a stem, and a retainer ring for said operator having a cylindrical portion designed to embrace and an internal flange designed to overlie said circu-

lar flange, said cross portion having a length greater than the maximum dimension of the opening defined by said internal flange, said stem occupying an offset position toward one end of said cross portion with respect to the axis of said



circular flange to provide a recess under the other end of said cross portion such that by engaging one side of said ring in said recess the ring may be swung over said one end of said cross portion and operatively engaged with said circular flange.

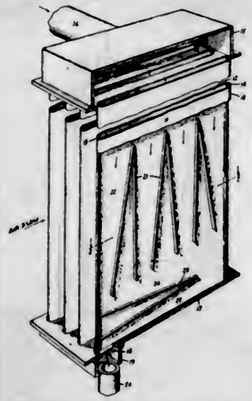
2,285,224
SHEET FEED
Ferdinand Nigra and Max E. Toby, San Francisco, Calif., assignors to Niagara Duplicator Co., San Francisco, Calif.
Application August 2, 1940, Serial No. 349,750
9 Claims. (Cl. 271—42)



1. In combination with a printing machine, a feed table fixedly related to the machine and adapted to support a stack of sheets for their successive feeding to the machine while the stack bottom remains at a constant level, a friction drag shoe for reciprocation over the stack, means to resiliently engage the shoe with the top sheet on the stack during a forward working stroke thereof, means to disengage the shoe from the stack of sheets during a return stroke thereof, and means automatically operative to reciprocate the shoe in synchronism with the printing operations of the machine.

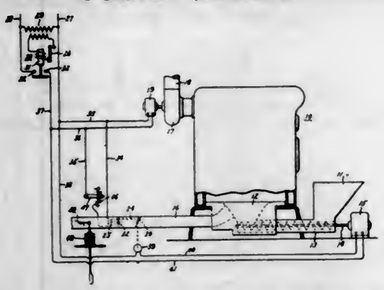
2,285,225
FLAT TUBE CONDENSER
Rollin H. Norris, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application January 16, 1941, Serial No. 374,726
6 Claims. (Cl. 257—28)

4. Flat tube condenser comprising a row of flat tubes, an upper header for receiving elastic fluid connected to the upper ends of the tubes, an end plate secured to the lower ends of the tubes and having a row of openings for discharging condensate from the tubes, the openings being considerably spaced from the centerlines of the tubes, each tube having a portion near the end plate forming a plurality of parallel-connected channels decreasing in cross-section in the directon of flow and another portion between the first named portion and the end plate forming a passage for



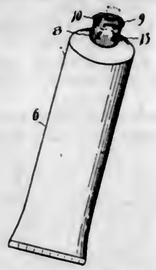
receiving fluid discharged from the channels, said passage having a varying cross-section to assure substantially constant velocity of flow of fluid from said channels towards the discharge openings.

2,285,226
FLUID FLOW CONTROL
Ronald W. Olsen, Bloomfield, N. J., assignor to General Electric Company, a corporation of New York
Application April 29, 1941, Serial No. 390,963
8 Claims. (Cl. 236—1)



2. A control for a furnace including an air duct connecting with the combustion chamber thereof, a substantially constant speed motor, a fuel feeding device driven by said motor, a second substantially constant speed motor, a fan driven by said second motor for producing a flow of air through said duct to said furnace, a damper movably mounted therein for varying the area of a passage through which the air flows, a temperature responsive device, means including said device for moving said damper in response to variations in the temperature of said device, means for heating said device in order to cause movement of said damper, the heating effect of said means on said device being varied in response to the changes in the velocity of the air passing through the duct in order to vary the position of said damper so as to maintain a substantially constant flow of air through said duct, means responsive to a call for heat in the space to be heated by the furnace for heating the device in order to cause movement of the damper, and means responsive to a movement of said damper to predetermined positions for controlling said motors.

2,285,227
CLOSURE FOR CONTAINERS
Leo Pernu, Sudbury, Ontario, Canada
Application November 4, 1941, Serial No. 417,762
1 Claim. (Cl. 221—60)



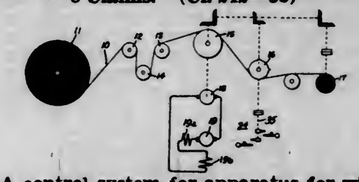
A closure for a collapsible container having a neck, comprising a tubular body of rubber of a diameter to fit tightly upon the neck and of a length to project forwardly thereof, the projecting end of the body being slit inwardly from its frontal edge and deformed so that the slitted wall portions come together throughout their width to define mating lips constituting a discharge orifice, and U-shaped wire members yieldably constraining the lips in their closed relation, the wire members having their bights overlying the outer faces respectively of the lips and their legs inserted through the wall portions adjacent to the lips and bent outwardly and inserted through the annular wall portions with their ends bent down upon the outer surface thereof.

2,285,228
METHOD OF AND APPARATUS FOR MAKING BAGS
Adolph Potdevin, Garden City, N. Y., assignor to Potdevin Machine Company, Brooklyn, N. Y., a corporation of New York
Application July 31, 1940, Serial No. 348,664
17 Claims. (Cl. 164—84.5)



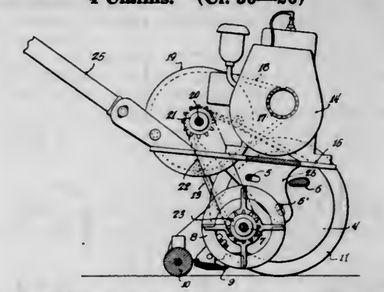
12. In a bag making machine, mechanism for separating bag material into bag lengths along a weakened line in the material, the combination of two pairs of forwarding rollers rotating at the same surface speed for effecting the continuous advance of the bag material at a constant speed, separating mechanism intermediate the said forwarding rollers, said separating mechanism comprising a pair of rollers, each provided on its periphery with a separating bar disposed transversely of the advancing bag material, one roller lying adjacent one face of the bag material, the other roller lying adjacent the other face of the material, said bars extending into the path of the bag material, and being so disposed relatively that the bars will engage the opposite faces of the bag material simultaneously, one bar engaging one face of the material, the other bar engaging the opposite face of the material in the region of the weakened line.

2,285,229
CONTROL SYSTEM
Frederic M. Roberts and Lucius A. Norris, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application June 29, 1940, Serial No. 343,256
8 Claims. (Cl. 242—55)



1. A control system for apparatus for winding a predetermined length of material on a roll comprising an electric motor for controlling the winding of said material on said roll, an adjustable voltage generator for supplying said motor, a limit switch actuated in accordance with the travel of said material for weakening the field of said generator thereby to initiate deceleration of said motor when a predetermined amount of said material is wound upon said roll and for further weakening said generator field to effect stopping when a different predetermined amount of said material is wound on said roll, and means responsive to the last mentioned operation of said limit switch for resetting said limit switch for a succeeding operation.

2,285,230
LAWN MOWER
Lloyd T. Roberton, Michigan City, Ind., assignor to Roberton Manufacturing Company, Michigan City, Ind., a corporation of Indiana
Application October 17, 1940, Serial No. 361,527
4 Claims. (Cl. 56—26)

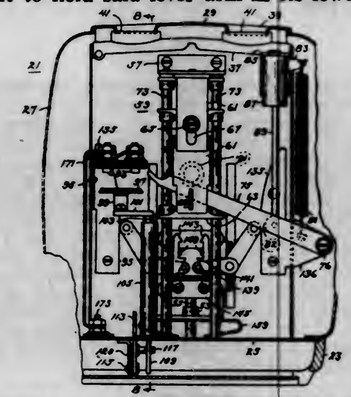


1. In a lawn mower having a propelling wheel and a rotating reel arranged in fixed relation to each other, of power operated means for driving said wheel comprising a supporting frame mounted to swing about the center of rotation of said reel, a prime mover mounted on said frame, and means for drivingly connecting said prime mover with said wheel comprising a belt drive connection including a pulley on said frame and a pulley associated with said wheel with a belt therebetween, the tension of said belt being under the control of the operator through the swinging of said frame relative to the center of said reel.

2,285,231
AUTOMATIC ELECTRIC TOASTER
Frank W. Scharf, San Gabriel, Calif., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware
Application November 12, 1941, Serial No. 418,660
7 Claims. (Cl. 219—19)

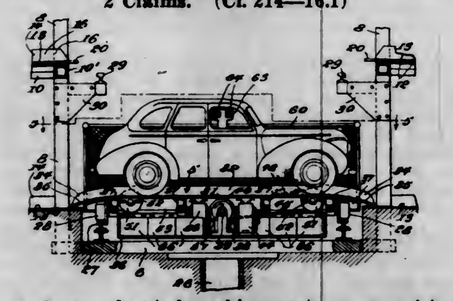
1. An automatic electric toaster comprising

toast heating elements, a bread carrier vertically movable into toasting and non-toasting positions relatively to the toast heating elements and normally biased into toasting position, a spring-biased lever arm, a carriage having a latch thereon movable vertically relatively to said toast heating elements and having means thereon adapted to engage said lever arm to move the lever arm downwardly, a detent on said bread carrier adapted to be engaged by said latch when the carriage has been moved downwardly, a second detent to hold said lever arm in its lower posi-



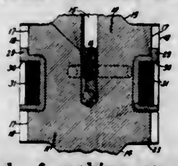
tion, means to release said second detent at the end of a toasting operation and means including a detector bar pivotally mounted on said carrier controlled by a slice of bread on the carrier to cause engagement of the latch on the carriage with the detent on the carrier when a slice of bread is on the carrier, the lever arm being adapted to move the carriage and the carrier upwardly when released from said second detent and the detent on the carrier being released from the latch on the carriage by the removal of the slice of bread from the carrier to cause the carrier to move into toasting position.

2,285,232
ELEVATED PARKING SYSTEM
Albert J. Sheehan, San Francisco, Calif.
Application September 30, 1940, Serial No. 359,167
2 Claims. (Cl. 214—16.1)



1. In an elevated parking system, comprising a number of floors having aisles extending centrally thereof and provided with track rails for each floor level, stalls arranged on each side of the aisle, a hoist located within the aisles between the rows of stalls, tracks carried by the hoist and adapted to form a continuation of the track rails, a transverse carriage having supporting wheels adapted to ride on the track rails of the aisles and the track of the hoist and the upper face of the carriage slightly elevated above the stall level, transverse guide tracks carried by the carriage and having flared downwardly extending open ends, and guide tracks carried by the stalls and terminating close to the guide tracks carried by the transverse carriage, whereby the vehicle is properly guided from the carriage into the stalls.

2,285,233
METHOD OF MAKING DYNAMOELECTRIC MACHINES
Arthur M. Smith, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application September 24, 1941, Serial No. 412,123
12 Claims. (Cl. 29—155.5)



1. The method of making an inductor type dynamo-electric machine which includes forming a rotor core having a pair of radially projecting core portions with an intermediate portion of smaller diameter, arranging a coil former mold about the intermediate smaller core portion providing a U-shaped cavity about the mold, casting a coil former in the U-shaped cavity, removing the coil former mold after the coil former casting is solidified, winding an annular exciting coil on the U-shaped coil former, and then heating the assembly to soften the coil former material and removing the cast coil former.

2,285,234
LOOSE LEAF BINDER
Rudolf Tauber, New York, N. Y.
Application May 6, 1941, Serial No. 392,041
2 Claims. (Cl. 129—1)



2. In combination with a book having a cover on each side, a reentrantly turned spaced flap at the rear edge of each cover, said covers and flaps being perforated, and loose-leaf binders set in registering perforations.

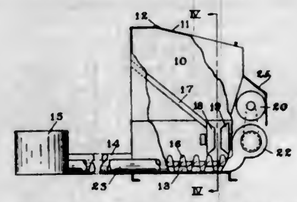
2,285,235
DESK PAD
George G. Taubert, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application October 1, 1940, Serial No. 359,255
1 Claim. (Cl. 281—44)



A device of the class described, comprising in combination, a base member and a retaining

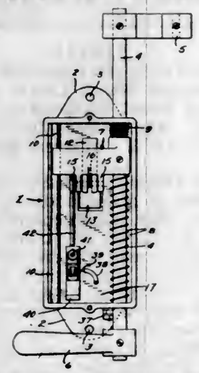
member integral therewith extending upwardly from the rear of the base member, projecting horizontally over and in spaced relation to the base member and terminating in a downwardly extending lip, a base plate inclined with respect to the base member, a plurality of sheets of paper on the base plate positioned between the latter and the lip of the retaining member, screw means projecting through the horizontal portion of the retaining member and through the sheets of paper and threadedly engaging the base plate near its rear end, the forward end of the base plate abutting the forward end of the base member.

2,285,236
STOKER
Scott Van Etten, Columbus, Ohio
Application August 1, 1940, Serial No. 349,177
1 Claim. (Cl. 83—93)



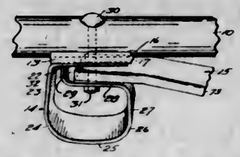
A coal stoker including, in combination, a hopper having a V-shaped portion formed as a trough at its bottom extended from front to rear of the hopper, a coal feeding worm in said trough and means for rotating the same, a coal screen in said hopper above said feed worm extending slantingly downward from the rear portion of the hopper over said trough and above the rearwardly coal feeding portion of said feed worm to discharge coal dust and small particles into said trough and onto the rear portion of said feed worm, and a pair of cooperating fuel fracturing burs in said hopper at the base of said screen, one of which burs has its axis of rotation parallel to the axis of rotation of the said feed worm.

2,285,237
ELECTRIC STOP MOTION CONTROLLER FOR KNITTING MACHINES
Edward Vossen, Brooklyn, N. Y., assignor to Stop Motion Devices Corporation, Brooklyn, N. Y., a corporation of New York
Application December 29, 1941, Serial No. 424,793
3 Claims. (Cl. 66—163)



1. In an electric stop mechanism for mechanically stopped power driven machines, the combination with a circuit closer governed by the material operated on, of a controller comprising a housing, means of connecting said housing with the machine, opposing apertures in the ends of said housing, a rod passing through said housing and apertures and by the latter held longitudinally movable but fixed against transverse movement, means on said rod to transfer its motion to the mechanism of said machine, a mainspring impelling said rod, a bar attached to said housing parallel to said rod, a pawl carrier member attached at one end thereof to said rod and extending transversely therefrom to said bar, a mortise milled in the unattached end of said pawl carrier and embracing said bar so as to be longitudinally movable thereon but closely held against circumferential movement upon said rod as axis, a pawl pivoted to said carrier, a rocker member pivoted to said housing, a spring to rotate said pawl on said carrier into engagement with said rocker member, a spring to move said rocker member into position to engage said pawl, an electromagnet attached to but insulated from said housing and under control of said electromagnet, a latch member pivoted to said housing and cooperating with said armature so that when the circuit carrying the stoppage actuating current is open said latch member is engaged and held locked against movement by said armature and in turn engages said pawl and holds it together with said pawl carrier and rod against movement under actuation of said mainspring, and when said circuit is closed the stoppage actuating current energizes said electromagnet to shift said armature out of locking position with reference to said latch member and release the latter, and thereby said rod to move under actuation of said mainspring and transfer its motion to the stoppage mechanism of said power driven machine.

2,285,238
FOLDING LITTER
Samuel G. Thomson, Flushing, N. Y., assignor to Zimmer-Thomson Corporation, Flushing, N. Y.
Application May 9, 1941, Serial No. 392,766
13 Claims. (Cl. 5—82)



1. In a folding litter having fabric connected side poles, stretcher bars, and pole saddles under each side pole; separate supporting legs each located beneath a respective saddle with its longitudinal dimension extending along the pole and arranged to provide a low and wide space extending transversely of the pole and open at both sides and at one end beneath said pole for the reception of an end of a stretcher bar, each of said legs including a horizontal upper portion spaced below the saddle, a ground engaging portion, means connecting the horizontal and ground engaging portions, means holding the horizontal portion in spaced relation to the saddle, and means engaging the respective saddle, each saddle having means coacting with the saddle engaging means of the respective leg and restraining the leg from rotation on its saddle, and means to connect the stretcher bar pivotally to the saddle in said space.

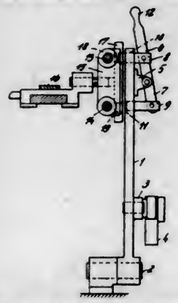
2,285,239
SLIP
Albert A. Horwitch, Chicago, Ill.
Application October 16, 1941, Serial No. 415,322
1 Claim. (Cl. 2—73)



A woman's slip including a skirt portion comprising eight gores or panels of substantially the same size joined together at the side edges thereof by stitching along seam lines, each of the said gores being tapered slightly, in plan, so that each of the said gores is somewhat wider at the bottom than it is at the top thereof whereby due to the relatively large number of said gores the said skirt portion of the said slip is substantially wider at the bottom than it is in the upper and waist portion thereof and a pronounced outward flare is imparted to the said skirt portion of the said slip, each of said gores or panels having both the woof and the warp threads thereof extending at an angle relative to its own longitudinal center line, whereby said slip is substantially free from tendency to wrinkle or to sag along the seam portions thereof or elsewhere in the said skirt portion of the said slip, said slip including a bodice portion joined at its lower edge to the upper edge of the said skirt portion of the said slip by stitching along a seam line, the front of the said skirt portion of the said slip embodying two centrally arranged gores or panels each having the upper edge thereof joined to the lower edge of the front of the said bodice portion of said slip and the upper edge of each of said centrally arranged front gores being curved so that the highest point in the said upper edge of each of the said two said centrally arranged gores in the front of the said skirt portion of said slip is disposed below one of the busts of the wearer of the slip, when the said slip is in use, and the upper edge portions of the two said centrally arranged front gores are joined to the said bodice portion of the said slip along a curved line extending concavely downwardly between the said two highest points.

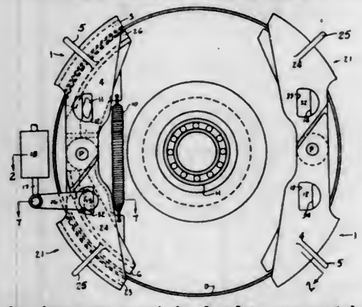
2,285,240
DEVICE FOR CHANGING THE STROKE OF SLURS
Paul Tuchscherer, Chemnitz, Germany, assignor to Schubert & Salzer Maschinenfabrik Aktiengesellschaft, Chemnitz, Germany
Application July 31, 1940, Serial No. 348,986
In Germany August 1, 1939
6 Claims. (Cl. 66—110)

1. A device for changing the stroke of slurs in flat knitting machines, comprising a swingable arm adapted to be adjusted to two different operative lever lengths and a driving slide for the slurs connecting bar provided with two con-



necting points for a single change of the stroke of the slurs.

2,285,241
BRAKE
George Walther and Claude W. Leslie, Dayton, Ohio, assignors to The Dayton Steel Foundry Company, Dayton, Ohio, a corporation of Ohio
Application March 28, 1941, Serial No. 385,738
10 Claims. (Cl. 188—76)



1. An improvement in brakes comprising the combination: with a brake lever pivoted on a brake support adjacent a brake drum and provided at opposite ends with shoes respectively overlying and underlying the inner and outer surfaces of said drum, of another brake lever pivotally mounted on said support adjacent said drum and provided at one end with a shoe arranged adjacent, but in opposition to, one shoe of the first lever; and means for operating said adjacent shoes simultaneously into and out of engagement with said drum.

2,285,242
MANUFACTURE OF BARIUM SULPHATE
Isaac Ephraim Weber, Luton, and William Stanley Wood, Harpenden, England
No Drawing. Application December 12, 1936, Serial No. 115,634. In Great Britain December 29, 1935
3 Claims. (Cl. 23—122)

1. A method of manufacturing a barium sulphate or blanc fixe, which comprises introducing into a vessel a solution of barium sulphide and a solution of sulphuric acid in small proportions, the proportion of the barium sulphide to the sulphuric acid being so balanced that substantially no free SO_4 ions are present in the vessel during the reaction, free acid other than sulphuric acid being present in a quantity sufficient to maintain the mixture during the reaction at a range of pH value from 0.5 to 3.

2,285,243
NUCLEAR ALKYLATION OF AMINO SUBSTITUTED AROMATIC ETHERS
Viktor Weinmayr, Pitman, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 30, 1940, Serial No. 316,305
7 Claims. (Cl. 260—575)

1. A process for the nuclear alkylation of an amino substituted aromatic ether having the general formula

$$(RO)_x—A—(M)_y$$

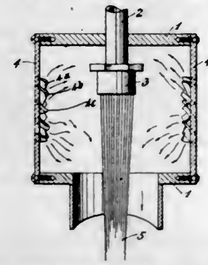
wherein R represents a radical selected from the group consisting of saturated acyclic hydrocarbon radicals and aromatic radicals of the benzene series, A stands for an aromatic hydrocarbon radical of the benzene, naphthalene, and diphenyl series, M stands for an amino group selected from the class consisting of the primary amino group, alkyl substituted amino groups and aryl substituted amino groups, x represents one of the numbers 1 and 2, and y represents one of the numbers 1 and 2, which comprises condensing said amino substituted aromatic ether with an alkylating agent having an alkyl group containing from 3 to 6 carbon atoms in the presence of an acidic condensing agent.

2,285,244
SWITCH FOR PIN TABLES
Jewell R. Williams, Oak Park, Ill., assignor to Raymond T. Moloney
Application July 19, 1940, Serial No. 346,266
7 Claims. (Cl. 200—52)



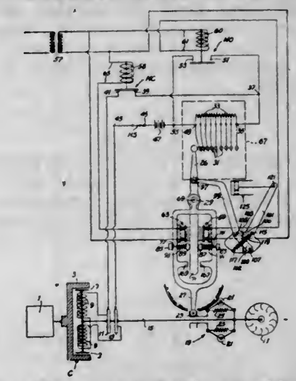
1. A switch of the character described, comprising a movable magnet, a stationary magnet supported beneath said movable magnet with the poles of the magnet aligned so that the magnets repel each other, and a circuit breaker actuated by the movement of the movable magnet.

2,285,245
PRODUCTION OF ARTIFICIAL FILAMENTS
Ki Williams, Waynesboro, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application November 29, 1939, Serial No. 306,649
3 Claims. (Cl. 18—8)



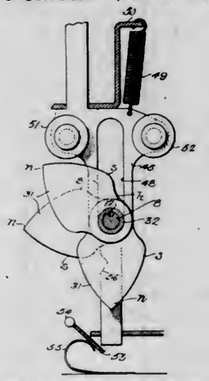
1. In an evaporative spinning apparatus, a spinning cell, a spinneret within the upper portion of said cell, a plurality of stationary air deflecting members having openings therebetween in the side of said spinning cell adjacent said spinneret, said air deflecting members being so constructed and arranged as to impart to air flowing therebetween a whirling motion, and means to cause air to flow through said openings and over said deflecting means into said cell.

2,285,246
ELECTRICAL CONTROL APPARATUS
Martin P. Winther, Waukegan, Ill., assignor to Martin P. Winther, as trustee
Application March 19, 1941, Serial No. 384,217
11 Claims. (Cl. 172—284)



1. In an eddy-current clutch, an eddy-current member, a magnetic field member cooperating therewith, means for exciting said field member comprising an electric circuit, a rheostat for controlling said circuit and consequently the excitation of the field member, and means responsive to adjusting movement of the rheostat for temporarily reducing the value of current in said circuit below the requirement at the final position of the rheostat when the rheostat is adjusted for field decrease, and for temporarily increasing the current above the requirement at the final adjusted position of the rheostat when it is adjusted for speed increase.

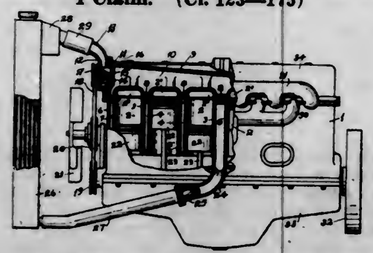
2,285,247
CONTROL DEVICE FOR RADIO RECEIVERS AND THE LIKE
Louis H. Zepp, Philadelphia, Pa., assignor, by mesne assignments, to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application March 10, 1938, Serial No. 195,182
9 Claims. (Cl. 74—10)



1. In a device of the character described, a

shaft, a cam mounted on said shaft for rotation therewith, said cam having a curved periphery, a manually operable member having a stroke of predetermined fixed length associated with said cam, a pair of actuating elements carried by said member and arranged to engage the associated cam at opposite sides of the axis of rotation of the cam to rotate the same and said shaft into a predetermined position, the curvature of the cam bearing such relation to the stroke of said member and the location and distance between the actuating elements carried thereby that as said cam approaches final rest position, said actuating elements contact the cam at opposite sides thereof and below its center of rotation to insure positive accurate positioning thereof in said final rest position.

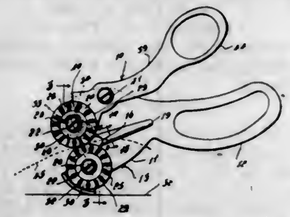
2,285,248
COOLING SYSTEM FOR INTERNAL COMBUSTION ENGINES
Irving E. Aske, Muskegon, Mich.
Application December 30, 1939, Serial No. 311,887
1 Claim. (Cl. 123—175)



A cooling system for internal combustion engines, the combination comprising a cylinder block having a plurality of cylinder bores therein, a cooling fluid chamber extending around and having a portion extending between the said bores and having a cooling fluid inlet at the upper portion thereof, a cooling fluid outlet at the lower portion and extending from a cooling fluid chamber portion between two of said cylinders, a radiator in spaced apart relation to the said cylinder block, a tubular connection extending from the said cooling fluid outlet of the cylinder block to the lower portion of the radiator, the said connection having therein a thermostatically controlled valve, a cylinder head closing the said cylinder bore and having a cooling fluid chamber connected to the cooling fluid chamber of the said cylinder block, a cooling fluid circulation pump secured to the cylinder head for drawing cooling fluid from the said radiator and delivering it to the said head and having extending therefrom, tubular connection with the upper portion of the said radiator, whereby cooling fluid is caused to flow from the upper portion of the radiator to the cooling fluid chamber of the cylinder head, thence into the upper portion of the cooling fluid chamber within the cylinder block and therefrom back to the said radiator in controlled quantity, whereby the cylinder head of the engine is cooled in advance of the cylinder block.

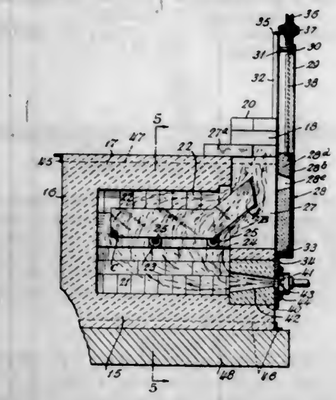
2,285,249
PINKING IMPLEMENT
Walter E. Barentzen, New York, N. Y.
Application May 1, 1941, Serial No. 391,419
6 Claims. (Cl. 30—265)

1. A pinking implement comprising a frame member having a fingerhold at one end thereof and a bifurcated opposite end, cutting disks rotatably connected to the furcations of said bifurcated end, said cutting disks having crimped marginal portions, said crimped portions being enmeshed, a lever pivotally mounted on the frame member and having a fingerhold at one



end thereof in complementary relationship to the fingerhold of the frame member, and ratchet means for connecting the opposite end of said lever to one of said cutting disks for rotating said cutting disk to cause the cutting disks to be rotated simultaneously in opposite directions.

2,285,250
NORMALIZING AND TEMPERING OVEN
Harold Case, New York, N. Y.
Application May 24, 1940, Serial No. 336,939
9 Claims. (Cl. 263—9)

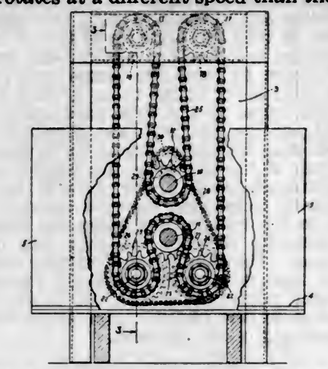


1. In an oven for heat treating materials, the combination of a body provided with a combustion chamber and a relatively narrower heat treating chamber lying above the same and in communication with said combustion chamber throughout the bottom of said heat treating chamber, and having a flue in communication with the latter, means for supporting the material to be treated within said heat treating chamber, means for developing heat within said combustion chamber, and means for regulating the velocity of the combustion gases through said flue.

2,285,251
INDUSTRIAL TRUCK
Clyde E. Cochran, Cleveland, Ohio, assignor to The Elwell-Parker Electric Company
Application February 19, 1941, Serial No. 379,616
9 Claims. (Cl. 187—9)

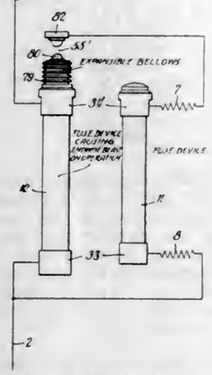
1. In an industrial truck, a platform, and differential hoist means for elevating and lowering said platform relatively to said truck, said means

comprising a pair of rotatable elements, one of which rotates at a different speed than the other,



and means for simultaneously rotating said elements.

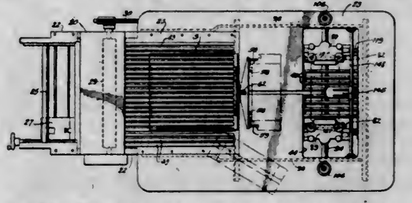
2,285,252
CIRCUIT INTERRUPTING APPARATUS
Nicholas J. Conrad, Winnetka, Ill., assignor to Schweitzer & Conrad, Inc., Chicago, Ill., a corporation of Delaware
Application September 8, 1938, Serial No. 228,980, which is a division of application Serial No. 637,593, October 13, 1932, now Patent No. 2,134,470, dated October 25, 1938. Divided and this application April 29, 1940, Serial No. 332,247
11 Claims. (Cl. 200—120)



1. Circuit control apparatus comprising, in combination, a liquid fuse device adapted to be mounted in an upright position for connection in a circuit to automatically interrupt the same on the occurrence of a predetermined overload, and a flexible bellows hermetically sealed to one end of said fuse device and forming therewith a unitary device, said flexible bellows itself serving to close said one end of said fuse device and to expand as a result of blowing thereof.

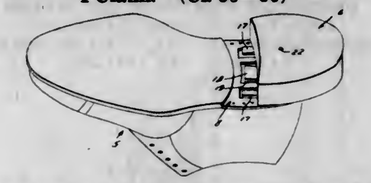
2,285,253
PACKAGE SEALING MACHINE
Mark H. Corley and John A. Heckman, Chicago, Ill., assignors to Miller Wrapping and Sealing Machine Company, Chicago, Ill., a corporation of Illinois
Application May 3, 1940, Serial No. 333,128
18 Claims. (Cl. 93—2)

1. In a package sealing machine, the combination of two groups of sealing devices adapted each to seal the protruding ends of a package wrapper, means for laterally adjusting the sealing groups with respect to one another to accommodate



packages of varying length, and means for vertically adjusting the entire sealing assembly to vary the sealing plane with respect to the position of the package.

2,285,254
SHOE CONSTRUCTION
Bertino Dutra da Silva, New York, N. Y.
Application April 2, 1941, Serial No. 386,532
1 Claim. (Cl. 36—36)

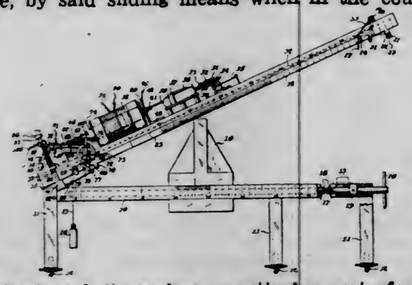


In a shoe construction, a seat heel, a heel, a plate secured to the heel, said plate being formed with a pair of spaced guide slots extending inwardly from the inner edge thereof, said plate having a substantially rectangular opening, said heel being formed with recesses over which portions of the plate at the slots and opening overhang, a second plate attached to the seat heel, said second plate being provided with a pair of L-shaped members extending inwardly from the inner edge thereof and adapted to be received by certain of the recesses and the slots, said second plate being struck out to provide a spring tongue for disposition through the opening of the first plate and into the corresponding recess and a cleat depending from the second plate and adapted to engage under the first plate at the rear edge of the opening therein when the plates are in connected relation.

2,285,255
FILAMENT TESTING APPARATUS
Lloyd W. Davis, Bloomfield, N. J., assignor to National Oil Products Company, Harrison, N. J., a corporation of New Jersey
Application November 3, 1939, Serial No. 302,706
13 Claims. (Cl. 73—51)

1. A filament testing apparatus comprising supporting means for supporting at an angle to the horizontal a filament to be tested, means for maintaining said filament taut, the entire space immediately adjacent a major portion of said taut filament being completely unobstructed, sliding means adapted to be moved solely by its own force due to gravity freely along the surface of said filament, said sliding means being totally supported by said filament for free movement thereon actuable means for retaining said sliding means at a particular location on said filament, a time indicator, means for substantially simultaneously starting said indicator and

actuating said actuable means to inoperative position whereupon said sliding means will slide along said filament and means rendered operative, by said sliding means when in the course



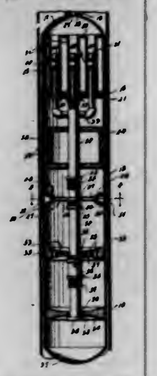
of its travel, it reaches a particular part of said filament, to stop said indicator, said last mentioned means including an electric circuit and electro-responsive means.

2,285,256

PRESSURE PUMP FOR OIL WELLS

Louis Davis, Corpus Christi, Tex.

Application June 4, 1941, Serial No. 396,625
8 Claims. (Cl. 103—46)



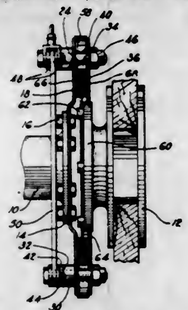
1. An oil well pump comprising a cylinder adapted to be submerged in the oil at the bottom of a well, a pipe connected to and communicating with the upper end of the cylinder and extending upwardly therefrom and forming the outlet of said cylinder, said cylinder having a transverse wall separating its upper end from its lower end, a tube slidably mounted in the cylinder and having its upper end extending through and slidably mounted in said wall, said tube being open at its upper end and closed at its lower end, spring means for urging said tube downwardly of said cylinder, a piston secured to the tube and disposed in wiping engagement with the lower portion of the cylinder, a valve slidably connected to the tube, below the piston, the wall of said cylinder being provided with an opening in its lower portion and below said piston, spaced collars secured to the tube, above and below said valve, for moving it upwardly and downwardly relatively to the cylinder, said tube being provided with an opening, adjacent its lower end, a sleeve slidably mounted on said tube and provided with an opening to register with the opening therein, said tube and piston being forced downwardly by said spring means to cause the upper collar to engage and move the valve downwardly to uncover the opening in the cylinder, abutment means in the cylinder for simultaneously engaging said sleeve to move the opening thereof out of registry with the opening in the tube, so that the pressure of the oil entering the cylinder will impinge against the underside of the piston to force the piston and tube upwardly, said lower collar being arranged to engage said valve, as the tube approaches its uppermost position, for closing said opening in the cylinder, and abutment means for engaging the upper end of the sleeve, as the tube approaches its uppermost position, for moving the sleeve downwardly to uncover the tube opening so that the oil, in the cylinder and below the piston, can pass upwardly through the tube and into the upper end of the cylinder and the pipe connected thereto, said flow of oil upwardly through the tube being continued during the downstroke of the piston by the piston compressing the oil in the lower end of the cylinder.

2,285,257

BRAKE

Adiel Y. Dodge, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application June 29, 1932, Serial No. 620,017
Renewed February 1, 1938
17 Claims. (Cl. 188—72)



1. A disc brake comprising a fixed member, an axially movable and slightly rotatable member, a friction element between the members, means for actuating the axially movable member to engage the friction element with the members, and a link connecting the members tending to force the members together upon engagement with the friction element, actuating means being independent of said link.

2,285,258

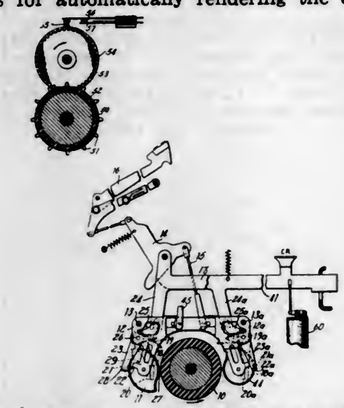
LINE POSITION CONTROL DEVICE FOR PAPER FORMS

Charles R. Doty, Yonkers, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application April 6, 1940, Serial No. 328,305
5 Claims. (Cl. 197—5)

1. In apparatus for maintaining registration of record strips in a plurality of printing devices, each device cooperating with a continuous strip divided into forms with a starting line position on each form; strip feeding means for feeding each of said strips relative to said printing devices to receive printed records in different locations thereon, individual means controlled by the feeding means in timed relation with the feeding of the strips to indicate when the starting lines of the forms on said strips are opposite the printing devices, a common control means

responsive to manual operation to effect continual operation of the strip feeding means, and means controlled by the individual indicating means for automatically rendering the control



means ineffective to cause further operation of each of said strips by the feeding means after the starting line on a form of said strip has arrived opposite its related printing device.

2,285,259

PRESERVATION OF RUBBER

Frederick B. Downing, Carneys Point, N. J., Arthur M. Neal, Wilmington, Del., and Charles J. Pedersen, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 29, 1937, Serial No. 182,374
15 Claims. (Cl. 260—802)

1. The method of retarding the deterioration of vulcanized rubber, due to the catalytic effect of copper in contact with the rubber, in the presence of an antioxidant which is normally effective to materially retard the deterioration of the vulcanized rubber due to light, heat and oxidation in the absence of copper but which is less effective in the presence of copper, which comprises incorporating in the rubber in the proportion of from about 0.5% to about 1.0%, sufficient to inhibit the catalytic effect of copper, a copper deactivator identical with the compound obtained by condensing 1 mole of a primary aliphatic polyamine solely with at least 2 moles of an ortho hydroxy substituted aldehyde, aromatic in nature, so that not more than 1 mole of aldehyde reacts for each primary amino group of the polyamine, said polyamine containing at least two primary amino groups directly attached to different carbon atoms of the same open chain.

2,285,260

PRESERVATION OF RUBBER

Frederick B. Downing, Carneys Point, N. J., Arthur M. Neal, Wilmington, Del., and Charles J. Pedersen, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Original application December 29, 1937, Serial No. 182,374. Divided and this application January 20, 1938, Serial No. 185,928
17 Claims. (Cl. 260—808)

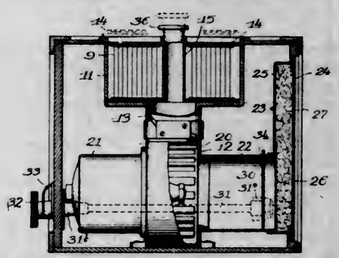
1. The method of retarding the deterioration of vulcanized rubber, due to the catalytic effect of copper in contact with the rubber, in the presence of an antioxidant which is normally effective to materially retard the deterioration of the vulcanized rubber due to light, heat and oxidation in the absence of copper but which is less effective in the presence of copper, which comprises incorporating in the rubber in the proportion of from about 0.5% to about 1.0%, sufficient to inhibit the catalytic effect of copper, a copper deactivator identical with the compound obtained by condensing 1 mole of a primary cyclic polyamine solely with at least 2 moles of an ortho hydroxy substituted aldehyde, aromatic in nature, so that not more than 1 mole of aldehyde reacts for each primary amino group of the polyamine, said polyamine containing at least two primary amino groups attached to different substantially adjacent ring atoms.

2,285,261

FILM DRYING METHOD AND APPARATUS

Hamilton P. Ellis, Fort Sheridan, Ill.

Application July 19, 1941, Serial No. 403,200
8 Claims. (Cl. 34—10)



1. The method of drying film on a vented film holder of the type used in developing tanks, which consists in placing the film holder with a film mounted thereon into a receptacle, forcing a blast of drying air upwardly through said receptacle, with the volume of said blast and the combined weight of the reel initially adjusted so that the holder and film may be approximately counterbalanced by said air blast while in wet condition, but will be freely floated on said air blast to a predetermined higher level when the film is dry.

2,285,262

PROCESS AND APPARATUS FOR THE PRINTING OF SUBTRACTIVE MULTICOLOR IMAGES

Emil Fess, Oberndorf-on-the-Neckar, and Wilhelm Schneider, Dessau, Germany, assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
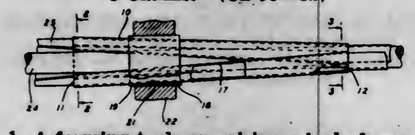
Application May 14, 1940, Serial No. 335,143
In Germany May 6, 1939
4 Claims. (Cl. 95—2)



1. In an apparatus for printing subtractive multicolor images, a source of light, a reflector projecting the light emitted by said source of light onto a printing plane, and a set of diaphragms and filters for controlling the intensity and the spectral composition of the printing light comprising two rigid diaphragms having

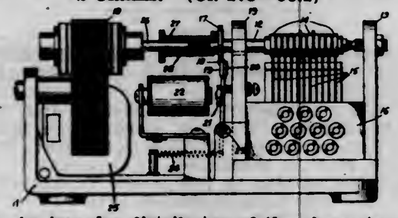
alternate opaque and transparent sections and between said rigid diaphragms a plurality of filters having corresponding alternate colorless transparent sections and colored transparent sections, each of said filters in a different one of the primary colors, said filters being capable of being shifted with relation to one another and said rigid diaphragms, said colored filter sections in zero-position being completely covered by said opaque sections of the rigid diaphragms.

2,285,263
FORMING TOOL
Hugh Fitch, Fanwood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application February 7, 1940, Serial No. 317,670
3 Claims. (Cl. 93—82)



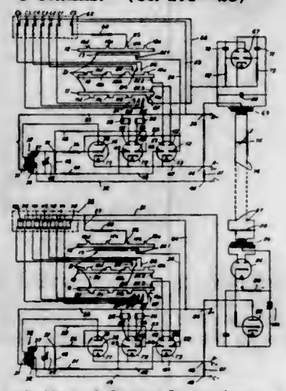
1. A forming tool comprising a body formed of sheet material with opposite edges thereof bent to form guide grooves and the body bent arcuately into a hollow substantially truncated cone contour with the guide grooves extending from spaced positions at one end to overlapping parallel relative positions at the other end to bend tape material longitudinally while advancing through the body and surround the side edges of the tape material at the guide groove during their movement into and through overlapping relative positions, and a sleeve extending around the body to hold the body against variation from a selected contour and movable relative to the body to vary the contour thereof.

2,285,264
IMPULSE DISTRIBUTOR
Clyde J. Fitch, Endwell, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 28, 1940, Serial No. 372,110
2 Claims. (Cl. 178—53.1)



1. An impulse distributor of the character described, comprising, in combination, motor driving means having a driving shaft tending to rotate continuously, normally inoperative distributor shaft and circuit controlling means, said shafts disposed in a co-axial relation with each other, an escapement wheel fixed to one end of said distributor shaft, an elongated sleeve member secured to said driving shaft having one end thereof disposed in close proximity to the escapement wheel, coil spring means surrounding said sleeve member, one terminal of which being connected to the other end of said sleeve member and the other terminal to the escapement wheel, thereby normally tending to rotate the latter, an electromagnet, and a pivoted escapement armature assembly cooperating with said wheel for normally preventing rotation of the latter, but effective to release the said wheel for rotation upon energization of the electromagnet.

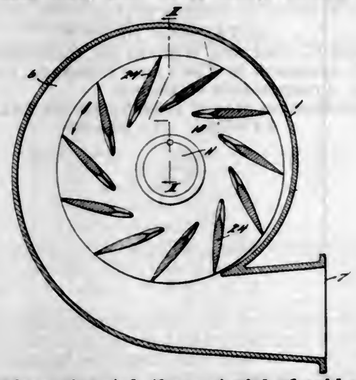
2,285,265
PRINTING TELEGRAPH SYSTEM
Clyde J. Fitch, Endwell, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 28, 1940, Serial No. 372,111
3 Claims. (Cl. 178—23)



1. In a printing telegraph system, a station adapted for transmitting and receiving code groups of signals, comprising, in combination, distributor means and actuating control means therefor, means for generating oscillations, start-stop means for rendering the latter effective for controlling the operation of the actuating control means for the duration of a signaling cycle, a plurality of adjustable means, included in said generating means, for controlling the frequency rates of the generated oscillations, one of the adjustable means having means whereby it is capable of being set for a predetermined frequency rate for the transmission of signals, and another of said adjustable means having means whereby the latter is capable of being set for a different frequency rate for receiving signals, a series of signaling channels, said distributor means having means for making the channels available successively during the said signaling cycle at a predetermined rate, upon operation of the start-stop means, means including said channels for initiating or receiving the code groups of signals, and settable means, in one status, for conditioning the initiating means and the first mentioned adjustable means to be effective to control the distributor means for initiating predetermined code groups of signals at a predetermined rate over said signaling channels during a signaling cycle, and, in another status, for conditioning the receiving means and second mentioned adjustable means whereby the latter is effective to control the operation of the distributor means at a rate commensurate with its setting in order to influence the signaling channels and receiving means in synchronism with the received code groups of signals.

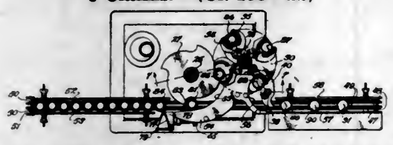
2,285,266
IMPELLER FOR BLOWERS
Johann Füllemann, Winterthur, Switzerland, assignor to Alfred J. Büchi, Winterthur, Switzerland
Application December 17, 1940, Serial No. 370,552
4 Claims. (Cl. 230—134)

1. A rotary impeller of the closed type for centrifugal gas blowers comprising a plurality of impeller vanes extending generally outwardly from the axis of rotation of the impeller and angularly spaced apart from each other, a pair of discs closing the sides of the spaces between the vanes so that only the inner and outer ends of the gas passages provided by said spaces are open, said discs and vanes being formed of a



single piece of metal, the material of said vanes and discs being light-weight metal to reduce centrifugal force, one of said discs having a relatively wide hub portion, and a reinforcement band extending around said hub located entirely within the metal of said hub portion and integrally united therewith, said band being of a heavier, stronger metal than the rest of the disc.

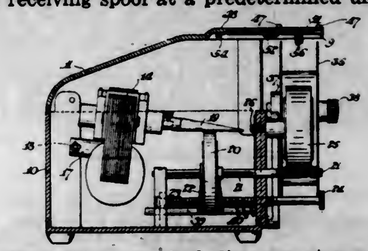
2,285,267
CONTAINER HANDLING APPARATUS
Howard E. Gantzer, Kenmore, N. Y., assignor to Consolidated Packaging Machinery Corporation, Buffalo, N. Y., a corporation of New York
Application July 19, 1939, Serial No. 285,417
6 Claims. (Cl. 198—22)



1. In combination: means for advancing a series of articles; and means for bringing said articles into predetermined spaced relationship while continuing to be advanced by said advancing means comprising, an abutment having a helical surface, said abutment being mounted for rotation about an axis inclined to the path of said articles whereby said helical surface is presented in substantially flat abutting relation in the path of said articles, said helical surface describing substantially one complete helix and having a lead substantially equal to the width of each said article, and means to rotate said abutment at such a speed that said advancing means will continuously and successively propel said articles against said helical surface.

2,285,268
AUTOMATIC TELEGRAPH TRANSMITTER
Laurance E. Gardiner, Stratford, N. J.
Application September 16, 1940, Serial No. 357,043
7 Claims. (Cl. 178—115)

1. In an automatic transmitter having contact members controlled by a perforated tape movable therebetween, the combination of a rotatable tape delivery spool, a rotatable tape receiving spool, and means for controlling the movement of said tape from said delivery spool to said receiving spool at a predetermined uniform



velocity, said means including a motor, a drive wheel in peripheral engagement with the tape on said receiving spool for actuating said tape receiving spool, and variable speed connections between said motor and said drive wheel.

2,285,269
DRUM VITALIZER
Joseph M. Grolimund, Elkhart, Ind., assignor to H. & A. Selmer, Inc., Elkhart, Ind., a corporation of Indiana
Application March 22, 1941, Serial No. 384,632
14 Claims. (Cl. 84—415)



1. The combination with a drum having a shell and a pair of heads tautly spanning the ends of said shell, of a vitalizer unit including a pair of rigid presser members each bearing against a restricted portion of the inner face of a head spaced from said shell, and a rigid rod interposed between said presser members, said unit being positioned within said shell and serving to tension said heads.

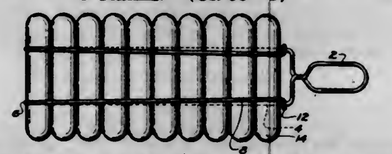
2,285,270
TRIMMING DISPENSING DEVICE
Albert J. Gelow, Three Oaks, Mich., assignor to The Warren Featherbone Co., Three Oaks, Mich., a corporation of Michigan
Application May 16, 1940, Serial No. 335,489
1 Claim. (Cl. 206—52)



A display container and dispenser for trimmings and like materials, comprising a tubular body of a pliable transparent sheet material open at its upper and lower ends, said tubular body having a longitudinally extending slot adjacent its upper end a spool of relatively light construction having a length of trimming wound thereon in overlapping relation from the lower to the up-

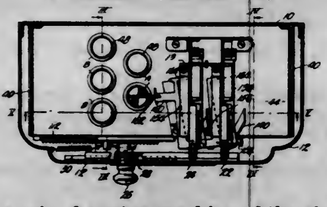
per end, discs having axial pivotal connection with the ends of said spool and adapted to form the closures for the ends of said tubular body, said spool and disc assembly being insertable into said body, the latter having its ends fashioned to yieldingly engage said discs to provide a relatively stable airtight closure for the contents of the spool, the latter being adapted to rotate as the contents are unwound and dispensed through said slot at the upper end of said tubular body, and means for manually rotating said spool without removing it from said tubular body.

2,285,271
BROILER
Louis S. Hafner and Francis L. Newton, Chicago, Ill.
Application April 10, 1940, Serial No. 328,862
5 Claims. (Cl. 53—5)



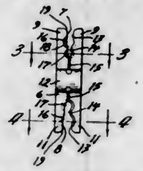
4. A sausage package for unit retailing comprising a unitary wire frame having a handle portion, body portions so constructed and arranged as to engage a plurality of sausages or the like upon opposite sides thereof at a distance from their centers for maintaining a substantially flat and parallel arrangement of said sausages during broiling, and means interlocking with said body portions to retain said sausages.

2,285,272
COIN CHANGING MACHINE
Jerome E. Hagstrom, Kansas City, Mo., assignor to C. Earl Hovey, Kansas City, Mo., trustee
Application December 2, 1940, Serial No. 368,130
7 Claims. (Cl. 194—79)



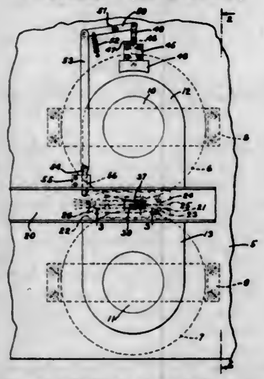
1. In a coin changing machine of the character described and adapted to deliver the proper number of coins of a given denomination when one of two other coins of another denomination is introduced into the machine, comprising a plurality of vertical magazines for the coins of a given denomination; a feeder plate of the thickness of one of the coins being delivered, provided with openings normally in register with the magazines; a platform having a pair of apertures therethrough underlying the feeder plate to support the coins in the openings of said plate; a coin holder on the feeder plate having a pair of spaced apart slots to receive the coin to be changed; a manually reciprocable operating frame in register with both slots of the coin holder to receive a coin when in either slot; and means for precluding the return of said frame to its normal position until the same has been moved through its path of travel in one direction, one side of the frame being disposed to engage a coin in the said holder to move the latter and the openings of the feeder plate over one of the apertures of the platform, one of said slots of the holder being normally a greater distance from said one side of the frame than the other whereby movement of the feeder plate is less when a coin is in said one slot than the movement thereof when a coin is in the said other slot.

2,285,273
RETAINING DEVICE
Eugene C. Hall and William M. Hall, Glenellyn, Ill., assignors to The Paine Company, Chicago, Ill., a corporation of Illinois
Application May 4, 1940, Serial No. 333,263
4 Claims. (Cl. 85—32)



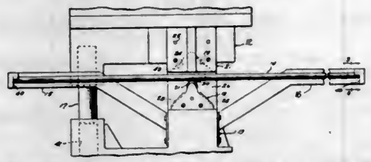
1. A device of the character described comprising a member of flat material provided with a slot therethrough and extending inwardly from the edge thereof to form resiliently connected portions, said slot being provided with an enlargement disposed intermediately of the ends thereof and the opposing edge regions of said slot enlargement being beveled, one from one face and the other from the other face of said member, to threadedly engage a screw engaged between said portions at said enlargement.

2,285,274
MAGNETIZING APPARATUS
Arvid N. Hanson, Hinsdale, and Stanley F. Warner, Forest Park, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 11, 1940, Serial No. 313,374
7 Claims. (Cl. 175—21)



5. In a magnetizing apparatus, magnetizing coils for imparting magnetism to a permanently magnetizable member, a stop member for normally stopping said member to be magnetized in a predetermined position until said magnetizable member is magnetically saturated, and a magnetic member so shaped and so located in the field of the magnetizing coils as to be moved by said field only when the magnetizable member has become saturated, the magnetic member being connected to the stop member for automatically moving said stop member out of its stopping position by movement of the magnetic member resulting from saturation of the magnetizable member.

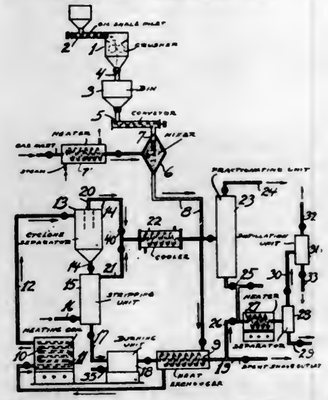
2,285,275
BENT TUBE SECTION AND A METHOD OF PRODUCING THE SAME
Delmar S. Harder, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 8, 1938, Serial No. 239,524
4 Claims. (Cl. 153—2)



1. A method for bending a tube comprising indenting the tube in the area to be bent and bending the tube about a sharp corner so that the indentation is on the inside of the bend and during such bending confining the tube and pressing the same to flatten the side walls and the outer wall of the tube at the bend.

4. An article of manufacture comprising a tube having a substantially right angle bend, an outer face at the area of the bend which has its greatest width at the mid portion of the bend and decreases in width and gradually merges into the round wall of the tube on each side of the mid portion of the bend, the side walls of the bend being substantially flat and merging at each end into the round side walls of the tube, the inner face of the bend being curved inwardly of the tube to a depth which is greatest at the mid portion of the bend and which gradually decreases on either side of the mid portion of the bend.

2,285,276
SHALE OIL DISTILLATION
Charles E. Hemminger, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application November 24, 1939, Serial No. 305,899
1 Claim. (Cl. 202—15)

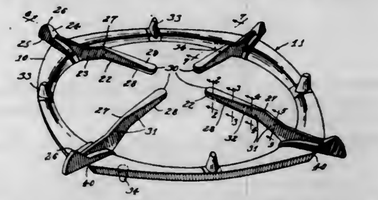


Process for the recovery of oils from oil-bearing shales comprising powdering said shale in a manner that more than 50% of the shale will pass through 300 mesh screen, suspending the same in inert suspension gases, heating the same as a confined stream to a temperature in the range from about 800° F. to 1100° F., maintaining the suspension gas containing the powdered shale at this temperature for a time period not exceeding about 25 seconds, removing the gaseous mixture comprising suspension gases and distilled oils from the spent shale, separating the distilled oils from the suspension gases without substantially cooling the mixture so that a dry separation is effected, burning the carbonaceous materials from said spent shale and handling the same in heat exchanging equipment to preheat the suspension gases containing the powdered shale.

2,285,277
NOBLE METAL CATALYST AND PROCESS OF PREPARING SAME
Clyde O. Henke, Wilmington, Del., Roland G. Benner, Carneys Point, N. J., and Robert C. W. Jones, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 8, 1939, Serial No. 303,475
12 Claims. (Cl. 252—218)

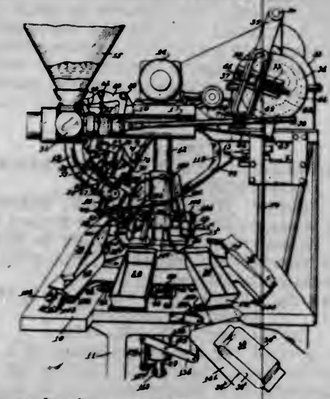
9. The process for the preparation of a noble metal catalyst which comprises heating an active carbon support to a temperature of at least 50° C. in an inert medium, then, while maintaining said temperature in excess of 50° C., impregnating said support with a compound of a noble metal selected from the group consisting of platinum, palladium and rhodium.

2,285,278
UTENSIL SUPPORT FOR GAS RANGES
John F. Hennessy, Rockford, Ill., assignor to Geo. D. Roper Corporation, Rockford, Ill., a corporation of Illinois
Application December 7, 1939, Serial No. 307,972
12 Claims. (Cl. 126—214)



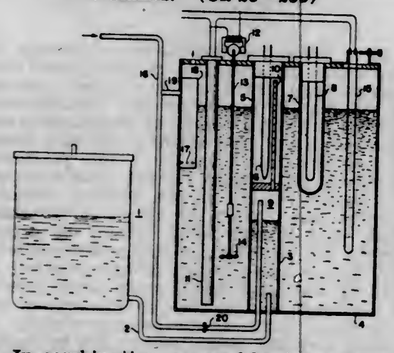
1. In a cooking range having a cooking top provided with an opening, a utensil support comprising an open frame portion disposed substantially horizontally in said opening having means thereon to support a utensil by engagement with the bottom thereof, said means comprising fingers projecting inwardly from the frame portion in circumferentially spaced relation and terminating in spaced relation to one another at points outwardly spaced from the center of the frame portion, said fingers being formed to provide elongated top surfaces for engagement with the utensil bottom and inclined downwardly and inwardly at the same small acute angle relative to a horizontal plane, the top surfaces of said fingers being flattened for broader surface engagement with the utensil bottom, the bottoms of all of said fingers being rounded and the sides of each finger converging upwardly to the lateral edges of the flat top surfaces and defining a more truly streamlined section at a predetermined distance outwardly from the inner ends of said fingers than at points not as far removed from the inner ends of said fingers.

2,285,279
PACKAGING MACHINE
John Hohl, Olav Bjering, and Charlton P. Whittier, Toledo, Ohio, assignors to Owens-Illinois Glass Company, a corporation of Ohio
Application March 24, 1939, Serial No. 263,948
6 Claims. (Cl. 226—61)



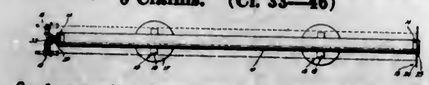
6. A packaging machine comprising a carriage rotatable about a vertical axis, an annular series of downwardly and outwardly inclined trays on the carriage, each tray having an end gate at the lower end thereof and spring means for holding the end gate normally closed, means for rotating the carriage step by step, means for delivering a package to each tray at a station and permitting the package to slide downward by gravity until arrested by the end gate, a stop device having a stationary mounting in position to hold the end gate closed at said station, and means operable in opposition to said spring holding means for opening each end gate in succession while the associated tray is at rest at a discharging station.

2,285,280
GAS ANALYZER
Clarence Johnson, Cleveland Heights, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Application October 12, 1938, Serial No. 234,666
7 Claims. (Cl. 23—255)



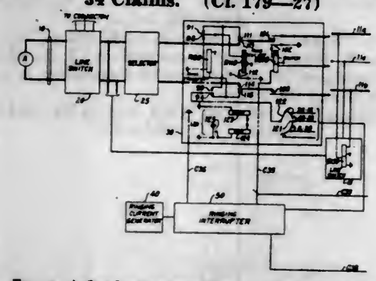
1. In combination, a vessel having a source of supply of flue gas and methyl alcohol, a chamber therein for evaporating a constant quantity of alcohol vapor for union with any probable amount of free oxygen in the flue gas, a mixing chamber for the flue gas and vapor, a detector cell, a vertically suspended catalyst in said detector cell, a conduit adjacent the extent of the catalyst interconnecting the detector cell and the mixing chamber, said conduit having a multiplicity of apertures evenly spaced over its length said apertures uniformly spreading the gaseous mixture over the catalyst, a second cell filled with inert gas having a similar catalyst, heating means for both cells maintaining a predetermined temperature, and indicating means responsive to the temperature relation between the cells.

2,285,281
APPARATUS FOR SURVEYING ARTICLES OF MANUFACTURE
Glenn D. Johnson, Compton, Calif., assignor to Baash-Ross Tool Company, Los Angeles, Calif., a corporation of California
Application April 12, 1940, Serial No. 329,314
6 Claims. (Cl. 33—46)



6. Apparatus for surveying an object having finished joint portions at its ends comprising an adaptor for application to either one of said joint portions, a target adapted to be arranged on the object, a telescope for sighting the target, and means for supporting the telescope on the adapter for movement about the longitudinal axis of the joint portion which carries the adaptor and for adjustment about an axis spaced from and transverse of said longitudinal axis.

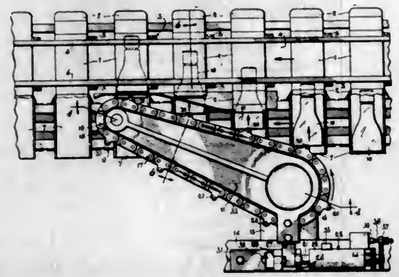
2,285,282
TELEPHONE SYSTEM
Roy W. Jones, Chicago, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application November 16, 1940, Serial No. 365,850
34 Claims. (Cl. 179—27)



1. In a telephone system, a multiparty line, means for transmitting any one of a plurality of different ringing signals over said line, a register operative in response to ringing signals transmitted over said line and having different settings individually corresponding to the different signals, an operator's position, and means operative to route a call to said operator's position when said register assumes a predetermined setting.

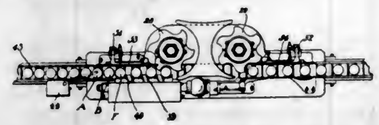
2,285,283
CARTON LOADING MACHINE
Ruel A. Jones, Covington, Ky., assignor to The R. A. Jones & Company, Covington, Ky., a corporation of Kentucky
Application December 20, 1940, Serial No. 371,029
8 Claims. (Cl. 226—2)

4. In a carton loading machine, a pair of endless conveyors, one for continuously advancing cartons in a consecutive order and the second having pockets for correspondingly continuously advancing merchandise for packaging into the cartons, the conveyors moving the cartons and the pockets with their contents in adjoining endwise registration, whereupon upon relative movement of the merchandise and cartons, the merchandise is inserted respectively into the cartons, an endless carton loading conveyor movably supported above one of said conveyors with



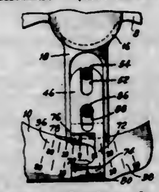
the forward run of the loading conveyor moving obliquely across and directionally therewith, and carrying fingers, each for imparting relative movement to said merchandise and cartons for inserting the merchandise into a registering carton, said loading conveyor movable to a non-loading position, and latching means for holding said loading conveyor in an active position automatically releasable by pressure exerted by a finger encountering resistance in loading the merchandise into a carton.

2,285,284
TIMING FEED OF BEVERAGE MIXING MACHINES AND THE LIKE
James Kantor, Chicago, Ill., assignor to The Liquid Carbonic Corporation, Chicago, Ill., a corporation of Delaware
Application September 16, 1940, Serial No. 356,902
3 Claims. (Cl. 192—125)



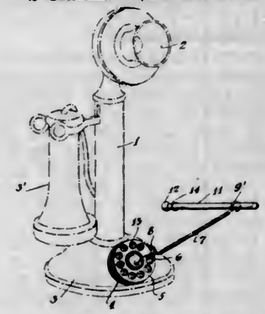
1. In combination a container handling apparatus, means for successively feeding the containers to be handled to said apparatus, an electric motor for driving said feeding means, a continuously operated conveyor for delivering a container to said feeding means, a control switch for controlling the operation of said electric motor, a second control switch independent of said first mentioned control switch normally opening the circuit through said electric motor and an arm arranged in the path of the containers as they move over said conveyor moved by the containers to close the circuit through said motor and render the drive of said feeding means operative and a manually controlled switch cooperating with said first-mentioned control switch and operable to start and stop said motor after said first-mentioned switch has stopped the same, said second-mentioned control switch being adapted to start and stop the motor independently of the first-mentioned switch.

2,285,285
CLINOMETER
Willie L. E. Keuffel, Weehawken, N. J., assignor to Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey
Application November 8, 1940, Serial No. 364,783
13 Claims. (Cl. 116—124)



1. In a measuring device, in combination, a limb, a plurality of scales depicted thereon, means movable simultaneously over said scales, a member adjustably carried by said means, indices carried by said member corresponding in number to the number of scales, said indices being so relatively disposed that at any indicating position of adjustmment of said index member only one of said indices will indicate a reading on any scale.

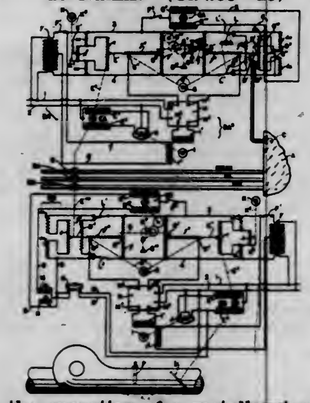
2,285,286
TELEPHONE DIAL MANIPULATING DEVICE
Hugh B. Kirkman, Larchmont, N. Y.
Application June 5, 1940, Serial No. 338,954
2 Claims. (Cl. 179—90)



1. In a dialing attachment for a telephone dialing mechanism having a fixed part and a rotary dial provided with finger receiving openings, a normally straight, self-sustaining universally resilient supporting member, a fastening element rigidly fixed to one end of said member and disposed at an angle thereto and engaging said fixed part of the dial mechanism to hold the supporting member supported at one side of and out of alinement with the dial and inclined at an upward and outward angle relative to and away from the face of the dial, a supporting element rigidly fixed to the free end of the supporting member and disposed at an angle thereto, and a manually operable dialing member having an end portion engageable with the openings in the dial and normally held by said supporting element at an angle to the supporting element so as to be disposed therewith at one side of and in advance of the dial but with its engaging end portion facing in the general direction toward the dial, whereby the attachment is normally disposed in an out of the way position to adapt the dial to be operated if desired by a finger of the hand in the conventional way, said dialing member being movable through lateral bending movements of the supporting member in planes at right angles to each

other into and out of alinement with the dial and toward and from the same and also being operable through bending and twisting movements of the supporting member upon itself to adapt it to be manipulated in a rotary path to rotate the dial.

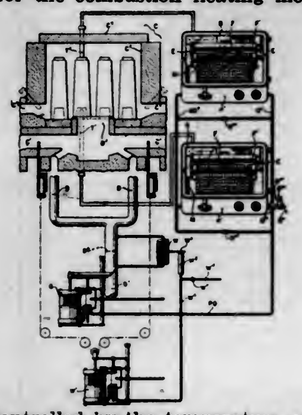
2,285,287
AUTOMATIC CONTROL APPARATUS
Anker E. Krogh, Philadelphia, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 9, 1938, Serial No. 201,069
16 Claims. (Cl. 236—15)



1. In the operation of a metallurgical furnace to heat a furnace charge to a predetermined temperature while enveloping said charge in an atmosphere comprising products of combustion of fuel burned to heat said furnace and charge and of a composition predetermined in accordance with the temperature and nature of said charge, the method of regulating furnace combustion conditions which consists in varying the rates at which fuel and combustion air are supplied to the furnace by and in accordance with furnace temperature variations, and modifying the ratio of said rates by and in accordance with variations in the composition of the combustion gases.

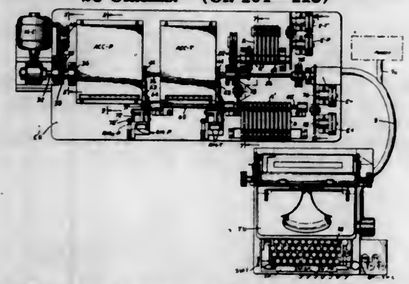
2,285,288
AUTOMATIC CONTROL APPARATUS
Anker E. Krogh, Philadelphia, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 15, 1938, Serial No. 202,307
4 Claims. (Cl. 263—2)

1. A control apparatus for a metallurgical furnace having a heating chamber in which a plurality of articles to be heated are placed and having a combustion heating means for passing hot gases of combustion through the chamber and over the articles wherein those portions of the articles which are contacted first by the hot gases of combustion are heated and brought up to temperature at a faster rate than those portions of the articles which are contacted last by the hot gases of combustion, comprising in combination, a plurality of temperature responsive devices positioned respectively to respond significantly to the temperature of a corresponding one of the articles at that portion thereof which is contacted last by the hot gases of combustion, temperature averaging means actuated by said devices to respond to an average of the temperature to which said devices respond, temperature responsive means positioned to respond significantly to the temperature of those portions of the articles which are contacted first by the hot gases of combustion, control means for the combustion heating means, and



means controlled by the temperature averaging means and the temperature responsive means for controlling the control means for heating the articles uniformly and rapidly as possible to a desired temperature without injury to the articles.

2,285,289
CARD PUNCHING MACHINE
Clair D. Lake, Binghamton, and Francis E. Hamilton, Endicott, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application March 26, 1941, Serial No. 385,274
23 Claims. (Cl. 164—113)

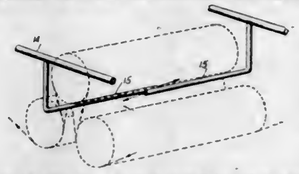


1. The combination with a recording unit having means to record data on a sheet and data selecting means therefor, of a separate card punch unit having punches to punch columns of a record card with data designations, column-by-column punch selecting means controlled by said data selecting means concomitantly with and according to selection of data for recording, and means for delaying effectivity of the data selecting means in selecting data for recording on said sheet until a predetermined card column and the punch selecting means are in correlation with one another.

2,285,290
DRIER
Frank J. Lang, Niagara Falls, N. Y., assignor to International Paper Company, New York, N. Y., a corporation of New York
Application June 21, 1940, Serial No. 341,653
2 Claims. (Cl. 34—114)

1. In a continuous web drier having a plurality

of cylinders over which the web is carried, laterally extending open-ended pockets defined by the cylinders and web, and means associated with said pockets and including pairs of generally opposed unrestricted horizontally disposed air pipes having their open, inner ends disposed in overlapping relation and terminating in the central portions of said pockets for discharging streams of air in a direction parallel to the web and slightly spaced therefrom to thereby carry

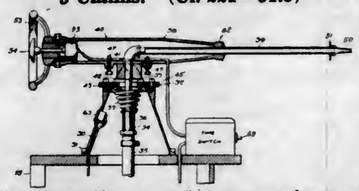


moisture laden air entrapped in the central portions thereof outwardly towards the ends thereof whereby the moisture content adjacent the central portion of the web will be decreased and the moisture content adjacent the edge portions of the web will be increased to thereby effect a substantially uniform moisture gradient across the full width of the web, said pipes being disposed in substantial parallelism with respect to said web whereby said currents of air will not impinge on the web.

2,285,291
GRAVEL PACKING OF WELLS
Delmar H. Larsen, Los Angeles County, Calif., assignor to National Lead Company, Los Angeles, Calif., a corporation of New Jersey
No Drawing. Application January 15, 1940, Serial No. 313,924
12 Claims. (Cl. 166—1)

1. In the art of gravel-packing wells, the process comprising, introducing the gravel by an emulsion at least one of whose phases is soluble in petroleum.

2,285,292
DISPENSING DEVICE
William F. Mangels, Brooklyn, N. Y.
Application November 5, 1940, Serial No. 364,377
5 Claims. (Cl. 221—31.5)

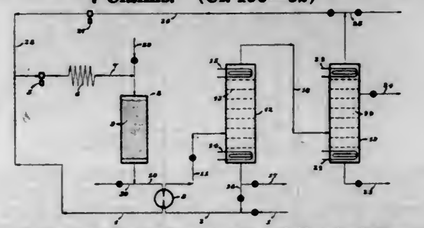


1. For mounting a water gun, a base, a turn table mounted on said base, a housing pivoted on said turn table, a rigid water pipe member extending through said housing and through said turn table, a flexible water feed member joined to said rigid pipe member, a sleeve on said pipe member above the junction, and spring means engaging said sleeve and said turn table for yieldingly positioning said gun.

2,285,293
CONTACT
William E. Mansfield, Garfield Heights, Ohio, assignor to Cleveland Tungsten, Inc., a corporation of Ohio
Application August 17, 1940, Serial No. 353,073
8 Claims. (Cl. 200—166)

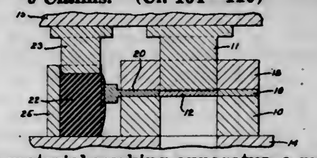
1. A contact composed predominantly of fabricated tungsten and having a dispersed grain structure in which the tungsten grains are approximately equal to or not substantially larger [redacted] than the tungsten grains in fabricated ductile tungsten and in which there is no line of cleavage in any direction.

2,285,294
TREATMENT OF HYDROCARBONS
Ernest M. Marks, Lansdowne, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 11, 1940, Serial No. 339,846
7 Claims. (Cl. 196—52)



1. A process for reforming naphtha to improve the antiknock quality thereof, which comprises contacting said naphtha, under reforming conditions of temperature and pressure, with a catalyst consisting of aluminum oxide and an alkali metal borate.

2,285,295
MATERIAL WORKING APPARATUS
Frank Martindell, Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application September 21, 1940, Serial No. 357,741
9 Claims. (Cl. 164—110)

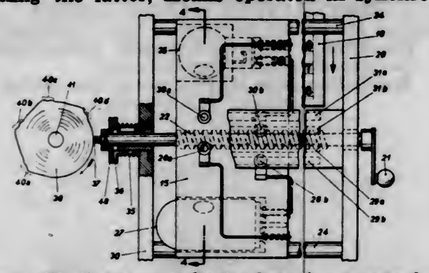


1. In a material working apparatus, a material holding device comprising a fixed abutment and an elastic solid member adapted, when compressed in one direction, to expand in a different direction and thereby press the material against said abutment.

2,285,296
ANALYZING DEVICE FOR STATISTICAL MACHINES
Michael Maul, Berlin-Johannisthal, Germany, assignor to Deutsche Hollerith Maschinen Gesellschaft m. b. H., Berlin-Lichterfelde, Germany
Application July 21, 1939, Serial No. 285,734
In Germany August 3, 1938
1 Claim. (Cl. 235—61.11)

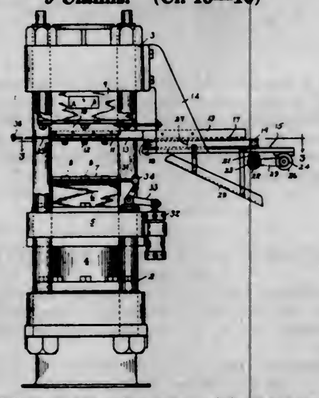
A record controlled machine of the class described comprising an analyzing station, means for advancing, along a predetermined path, a record sheet having graphical characters disposed thereon past the analyzing station, said characters being formed so that the configurations embrace one or more index marks arranged in accordance with a predetermined index mark system, in which system the index marks are

positioned on different vertical lines common to the characters, means for analyzing the characters advanced past the analyzing station in order to detect the presence of the index marks embraced by the analyzed characters at the predetermined index mark positions, said analyzing means comprising a light source, light responsive means and means for directing the rays of light from the said source to the record sheet and thence to the light responsive means for conditioning the latter, means operated in synchro-



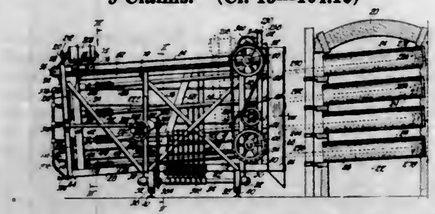
nism with the record sheet advancing means for positioning the analyzing means, at predetermined times, from one index mark position of the characters to another during the advancement of the record sheet past the analyzing station, said analyzing means being positioned transversely to the said path travelled by the record sheet, and means under control of the light responsive means and responsive thereto upon detection of the index marks embraced by the analyzed characters at the predetermined index mark positions.

2,285,297
PRESS MECHANISM FOR FORMING SCREW-THREADED PLASTIC ARTICLES
Archibald B. McGinnis, Wheeling, W. Va., assignor to Wheeler Stamping Company, Wheeling, W. Va., a corporation of West Virginia
Application February 18, 1941, Serial No. 379,435
9 Claims. (Cl. 18—16)



9. Molding apparatus comprising a press having a fixed mold plate at the top thereof and a vertically movable cooperating mold plate under the first, said upper plate having a plurality of rows of mold elements thereon which have a screw-threaded engagement with the molded articles produced on the press, the lower plate having complementary rows of mold elements thereon, a guideway in the press along which the upper plate may be moved in a horizontal plane from a position over the lower plate, a stripper having parallel stripping elements for engaging the articles on the rows of mold elements when the upper plate is so moved, the stripping elements having friction surfaces thereon for engaging the peripheral surfaces of the articles on the rows of mold elements and removing them by frictional engagement therewith, and means for moving the stripping elements relatively to the article.

2,285,298
RETORT CLEANOUT MACHINE
Thomas P. Morrison, Blackwell, Okla., assignor of one-tenth to H. K. Highsmith
Application April 10, 1939, Serial No. 267,029
9 Claims. (Cl. 15—104.10)



5. In a cleaning mechanism for retort furnaces having a bank of retorts arranged in substantially regularly spaced tiers; a movable frame; a carriage mounted for reciprocation in said frame, in a direction substantially parallel with the axis of said retorts; motor driven rotary members carried by said carriage; a tool shaft universally connected for rotation with each of said rotary members; means normally supporting said tool shafts in substantially axial alignment with the respective retorts; a helical conveyor tool carried by the free end portion of each of said tool-shafts for rotation therewith, and means responsive to the advancing of the frame, to move the supporting means from supporting position.

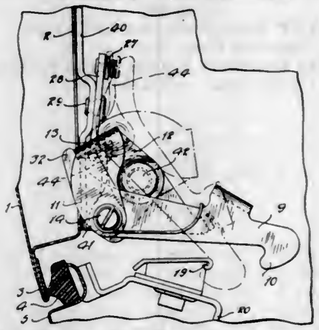
2,285,299
PURIFICATION OF CAUSTIC
Irving E. Muskat and Fred D. Ayres, Akron, Ohio, assignors to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
No Drawing. Application March 25, 1940, Serial No. 325,788
9 Claims. (Cl. 23—184)

1. A process of purifying an aqueous solution of an alkali metal hydroxide, containing a substantial amount of silica as an impurity, which comprises adding ammonia to the solution in an amount sufficient to cause precipitation of silica therefrom but insufficient to cause separation of two liquid phases, maintaining the temperature such that precipitation of a substantial portion of solid hydroxide does not occur, removing the precipitated silica from the solution and separating the ammonia from the purified solution.

2,285,300
CONCENTRATION OF CAUSTIC
Irving E. Muskat, Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
No Drawing. Application March 25, 1940, Serial No. 325,789
3 Claims. (Cl. 23—302)

1. The method of preparing concentrated sodium hydroxide which comprises treating a solution containing not substantially less than 40 percent of sodium hydroxide with a substantial amount of ammonia in such concentration that a separation of liquid phases does not occur and maintaining the temperature such that a solid hydrate of concentration higher than that of the solution is precipitated.

2,285,301
DECK LID LOCK
Algott L. Nelson, Detroit, Mich., assignor to Ternstedt Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application January 22, 1940, Serial No. 314,945
7 Claims. (Cl. 292—126)



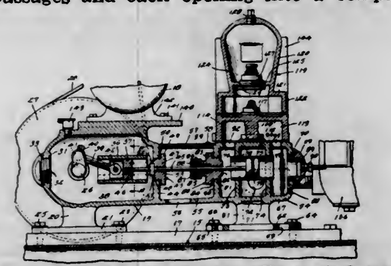
3. A lock for the deck lid of an automobile comprising a support plate, a member pivoted on said plate, a bolt having a tail and head eccentrically and freely pivoted between its tail and head on said member, means for rotating said member in a first direction whereby the said bolt is projected and said bolt head describes an arcuate path and means for rotating said member in a second direction whereby said member engages the tail of the bolt to pivot and retract the same.

2,285,302
PROCESS FOR CEMENTING OIL WELLS
Gordon D. Patterson, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 18, 1939, Serial No. 309,899
4 Claims. (Cl. 166—26)

3. In the process of forming a concrete filter in an oil well cavity wherein an un-set concrete composition comprising a major amount of aggregate and a minor amount of binding agent is passed down the oil-well casing into the oil-well cavity and is then allowed to set, the step which comprises adding as a constituent of the concrete composition which is to be passed down the casing, without stable emulsification, an inert liquid material which is immiscible with the binding agent in an amount not less than that required to fill the voids in said concrete composition, whereby the said concrete is made to flow more easily without increasing its porosity.

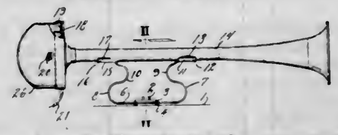
2,285,303
RECIPROCATING PUMP
Ross J. Rumore, Birmingham, Ala.
Application December 12, 1940, Serial No. 369,888
1 Claim. (Cl. 103—175)

In a reciprocatory pump having a housing for a reciprocatory plunger, said housing formed with a forward and rear outlet chamber, an intake chamber arranged between the outlet chambers, a pair of permanently open fluid passages on its top wall opening into said outlet chambers and an intake for said intake chamber; the combination of the top wall of said housing formed with a second pair of spaced aligned fluid passages opening into said intake chamber and arranged between and angularly related with respect to said first pair of passages, a pair of normally seated spring controlled valves for said second pair of passages, an open bottom valve housing detachably secured upon said top wall for said pair of valves having an upper end wall provided with a depending substantially S shaped partition dividing said valve housing into a pair of open bottom compartments, each compartment having a passage of each of said pairs of passages opening thereinto, said upper end wall of a valve housing being formed with a pair of spaced aligned passages having their axes offset with respect to the axes of said second pair of passages and each opening into a compart-



ment, a second pair of normally seated spring controlled valves for said passages in said upper end wall, said second pair of valves being substantially smaller than said first pair, a pressure housing having a delivery outlet and including an enlarged annular open bottom lower portion detachably secured upon said upper end wall, a dome-shaped upper housing portion of reduced diameter and of greater length than said lower portion, a horizontal partition in said upper portion between the horizontal median and lower end of the latter, said annular lower portion enclosing said second pair of valves, said horizontal partition having an axially arranged fluid passage, a normally seated spring controlled valve for the passage in said partition, and a seat for said valve, said seat being constructed with a screw-throated barrel, and an outwardly extending flange on the lower edge thereof, said seat in said valve being adapted to be removed from the under side of said horizontal partition and said flange of said seat being adapted to contact the under seat of said partition.

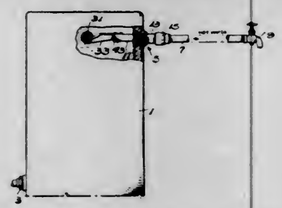
2,285,304
HORN MOUNTING
Peter C. Beck, Adrian, Mich., assignor to Schwarze Electric Company, Adrian, Mich., a corporation of Michigan
Application September 14, 1939, Serial No. 294,935
1 Claim. (Cl. 177—7)



A sound projecting device for use on an engine-driven vehicle, the device embodying a

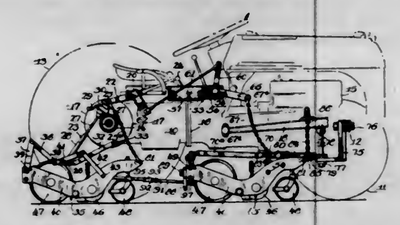
housing containing a diaphragm and means for actuating this diaphragm, a trumpet section extending outward from the housing, a mounting for the projecting device having a pair of spaced anchorages along the trumpet section at different distances from the housing, this mounting including a flat spring leaf member having its flat portion transversely of the axis of the trumpet section, the length of this member being substantially in alignment with the trumpet section, this member having bent portions in it to provide greater resiliency, each end of this member being attached to one of the anchorages and an intermediate portion of this member being attached to a fixed support.

2,285,305
VALVE
James P. Reid, Raleigh, N. C.
Application June 24, 1941, Serial No. 399,547
3 Claims. (Cl. 236—93)



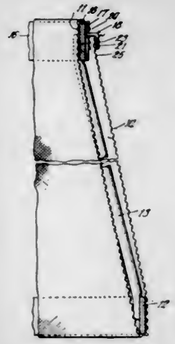
1. In a valve structure, a tubular member having one end obliquely cut to form an inclined valve seat, a post mounted on the uppermost surface of said tubular member to project longitudinally therefrom, a coiled temperature affected member carried on the inner end of said post and having a portion thereof extending toward said tubular member below said post, a valve unit mounted on the end of said portion of the temperature affected member for actuation thereby, said valve unit comprising a main valve having an opening therein and a relief valve connected to said main valve for limited relative movement with respect thereto under the influence of said temperature affected member.

2,285,306
MOWER ATTACHMENT FOR TRACTORS
Joseph A. Roseman, Glenview, Ill.
Application January 30, 1941, Serial No. 376,594
8 Claims. (Cl. 56—7)



1. A mower attachment for a wheeled tractor having a power lift mechanism for implements adjacent the rear end thereof, said attachment comprising means connected to said power lift mechanism and arranged to support a rear mower unit between the rear wheels of said tractor, and auxiliary supporting means connected to said tractor including supporting arms extending laterally at opposite sides thereof, each having means thereon arranged to support a front mower unit forwardly of the rear wheel, and operatively connected to said power lift mechanism whereby all of said mower units are lifted and lowered simultaneously, said mower supporting means being arranged to tilt their respective mower units simultaneously at similar varying angles while the latter are in driving engagement with the ground, so as to support said mower units at varying cutting heights, and draft means on said tractor including vertically movable connections freely adjustable to provide substantially horizontal pull on said mower units in all positions of tilted adjustment thereof.

2,285,307
LAMP SHADE CONSTRUCTION
Samuel Sher, Chicago, Ill.
Application December 9, 1939, Serial No. 308,403
2 Claims. (Cl. 240—108)

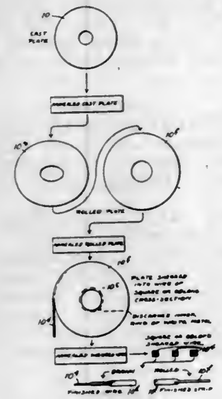


1. In a lamp shade, the combination of a frame comprising a pair of vertically spaced upper and lower connected frame members, a plurality of pointed hooks formed on one side of one of said members and spaced laterally from the adjacent face thereof, each of said hooks having a plurality of shoulders extending laterally therefrom and facing in the opposite direction to the pointed ends of said hooks, and a covering of flexible material surrounding said frame members, one edge portion of said covering engaging said hooks and the opposite edge portion of the covering being in engagement with the shoulders on said hooks.

2,285,308
PROCESS FOR MAKING WIRE OR STRIPS
Harry G. Specht, Montclair, N. J., assignor to Encor Corporation, Belleville, N. J., a corporation of New Jersey
Application July 31, 1940, Serial No. 348,813
5 Claims. (Cl. 29—148)

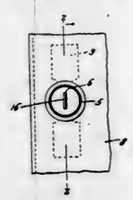
1. The process for making wire or strip stock, which comprises centrifugally casting molten metal into an annular centrally apertured discus plate in a vertical type centrifugal casting machine in which the revolving mold is rotated around a horizontal axis at a speed controlled in substantially synchronous relation to the type, volume, and speed of flow of molten metal poured into the mold in a downwardly directed column from a central entering hole in the mold, the plate being cast of gradually increasing thickness from the outer to the inner peripheries and such thickness being in substantial proportion

to the grain size and texture differential between the inner and outer peripheries resulting from vertical centrifugal casting, rolling the cast plate to a larger diameter and an approximate uniform thickness throughout to produce a flat-sided centrally apertured circular rolled plate,



cutting the rolled plate into a continuous length of wire of substantially rectangular cross-section by a spiral cut extending inwardly from the outer periphery between the flat sides of said plate, and subjecting the cut wire to a finishing operation to produce finished wire or strip stock.

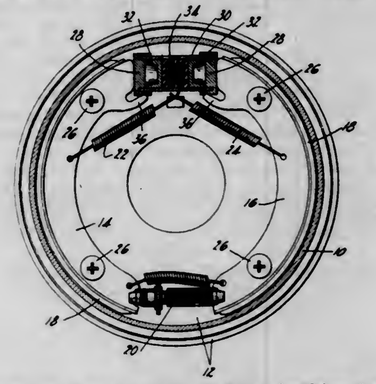
2,285,309
BUTTON FASTENER
Charlotte V. Stevenson, New York, N. Y.
Application July 29, 1941, Serial No. 404,545
3 Claims. (Cl. 24—104)



1. A button fastener for buttons of a type having openings therein, said fastener comprising a flexible member inserted in said openings and through the material to which the button is attached, a plate positioned behind the material and removable clips carried by the plate for securing the ends of the flexible member to one face of the plate in parallel relation to the plate.

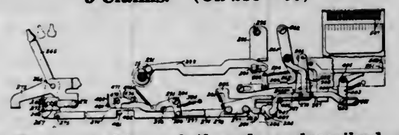
2,285,310
BRAKE
Robert L. Strebinger, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application January 11, 1940, Serial No. 313,304
15 Claims. (Cl. 188—79.5)

1. A brake comprising an actuating cylinder constructed and arranged to serve as a brake anchor, and shoes arranged to anchor thereon and provided with parts engageable therewith in positions determining the positions of the ends of the shoes radially of the brake and which parts as the shoes wear are distorted when their



respective shoes anchor under a braking load to maintain the clearance at the ends of the shoes.

2,285,311
ACCOUNTING MACHINE
Oscar J. Sundstrand, West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Original application June 30, 1936, Serial No. 88,092. Divided and this application December 29, 1939, Serial No. 311,699
3 Claims. (Cl. 235—60)

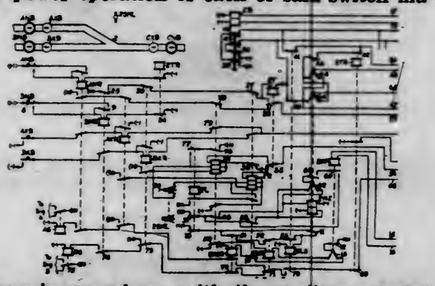


1. In a machine of the class described, two totalizers, actuators therefor, means to engage the totalizers with the actuators, and means for selectively connecting the totalizers with the engaging means, the connecting means including a disengaging member for one totalizer, means tending to move the member to effective position during every operation, an engaging device for the other totalizer, means tending to move the device to effective position during every operation, a latch to hold the device in ineffective position, a manipulative totalizer selecting member, and means controlled by the manipulative member for blocking movement of the disengaging member when the manipulative member is in one position, for holding the latch withdrawn and also blocking movement of the disengaging member when in a second position, and for holding the latch withdrawn when in a third position.

2,285,312
SWITCH AND SIGNAL CONTROL SYSTEM FOR RAILROADS
Charles L. Swanton, North Chili, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application May 2, 1940, Serial No. 332,971
11 Claims. (Cl. 246—134)

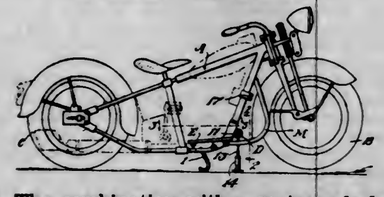
1. In a switch and signal control system of the character described for the power operation of each track switch of a track layout upon the manual designation at a control office of the entrance and exit ends of each route extending over such track switch; route establishing means

at the control office including normal and reverse switch position selecting relays for each of the track switches responsive to the designation of the respective entrance and exit ends of each of the routes for selecting the position of each of the track switches required to set up such route; a polar cross protection relay at the control office for each of the track switches; a circuit breaker at the control office; a power switch machine for each of the track switches; normal and reverse control wires for each of said power switch machines extending from the control office; circuit means dependent upon said circuit breaker including said control wires for causing the power operation of each of said switch ma-



chines in accordance with the position selected by said route establishing means, such circuit means being energized at the control office only when that track switch is out of correspondence with the position selected by said switch position selecting relays, and such circuit means when inactive for control purposes being closed but deenergized including said cross protection relay and one of said normal or reverse control wires for that track switch; and circuit means for energizing said circuit breaker only when each of said cross protection relays has been unaffected by energization of a particular polarity applied under abnormal conditions to such switch control wire.

2,285,313
MOTORCYCLE STAND
Louis A. Tagliaboschi, Metuchen, N. J.
Application February 6, 1939, Serial No. 254,842
3 Claims. (Cl. 280—303)

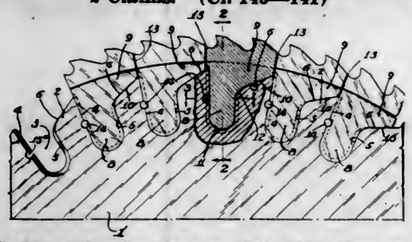


1. The combination with a motorcycle having a frame, a rear wheel and a front wheel journaled on an axle in a steering fork, of a prop connected to the lower portion of the frame behind the front wheel and steering fork to swing selectively into an out-of-the-way position alongside said frame or to extend downwardly and laterally from one side of the frame to contact with the ground a substantial distance outwardly of the frame and support the frame against falling from upright position in one direction, said prop being related to said frame so that when the prop is in contact with the ground said frame may be tilted out of its normal vertical plane on said prop and one wheel to elevate one end of the frame and raise the wheel thereon from the ground, and a second prop separate from and independent of the first prop and connected to said lower portion of the frame behind the front wheel and the steering fork to swing selectively into an out-of-the-way inoperative position alongside said frame or to project downwardly into operative position in contact with the ground at the other side of said frame when said end of the frame is elevated, whereby to hold the frame and said wheel so elevated, said props being capable of operation individually and independently of each other.

2,285,314
MANUFACTURE OF CATALYSTS
Charles L. Thomas and Jacob Elston Ahlberg, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application October 22, 1938, Serial No. 236,549
8 Claims. (Cl. 252—250)

1. A process for producing catalysts which comprises suspending silica hydrogel in an aluminum salt solution, adding a volatile basic precipitant to precipitate hydrated alumina, and drying the resultant silica-alumina composite.

2,285,315
INSERTED SECTION SAW
Charles M. Thompson, Merion, Pa., assignor to Henry Disston & Sons, Incorporated, Tacony, Pa., a corporation of Pennsylvania
Application March 29, 1941, Serial No. 385,924
2 Claims. (Cl. 143—141)

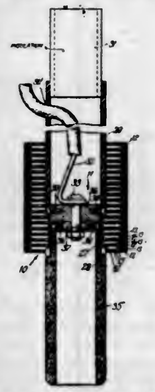


1. In a circular saw, a disk blade having at the peripheral edge thereof a series of projections with intervening gullets, the outer end edge of each projection being inclined to the peripheral edge of the blade and inwardly toward the leading edge of said projection, a tooth section inserted in each of said gullets, said sections collectively forming a substantially continuous peripheral band on the blade and being formed to provide a slight clearance between the adjoining sections, said tooth section comprising a shank closely fitted and confined between the opposite side edges of the gullet and spaced from the bottom of said gullet, and comprising also a trailing portion having an inner extended edge paralleling and solidly seated upon the said inclined outer edge of the rearwardly adjoining projection, said inclined edge being disposed approximately at right angles to the direction in which the resultant thrust imposed upon the tooth section when cutting is transmitted to the blade.

2,285,316
SWITCH CONSTRUCTION
Hugh A. Triplett, Wilmette, and Sigurd I. Lindell, Chicago, Ill., assignors to Schweitzer & Conrad, Inc., Chicago, Ill., a corporation of Delaware
Application July 10, 1940, Serial No. 344,688
22 Claims. (Cl. 200—144)

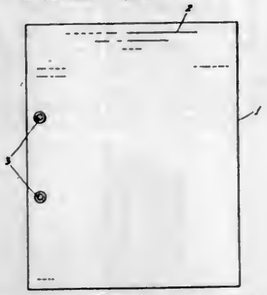
1. A switch comprising generally cylindrical

interfitting relatively movable switch members between which an arc is drawn on movement thereof apart to open an electric circuit in which current flows; one of said switch members including a stack of metallic plates, and means for maintaining said plates in insulated spaced relation with air gaps therebetween; and means for connecting an end plate of said stack to one terminal of said electric circuit, the other of said



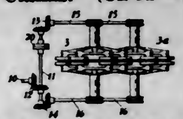
switch members being adapted to be connected to another terminal of said electric circuit and to engage said end plate in the switch closed position and on relative movement thereof to successively engage the remaining plates, the air gap spacing between said plates being such that arcs are formed therebetween when the switch is operated to the switch open position whereby said arc is broken up into a plurality of short arcs.

2,285,317
PERFORATED SHEET
Martinus Josephus van den Biggelaar, Amsterdam, Netherlands
Application December 7, 1939, Serial No. 308,070
In the Netherlands January 18, 1939
1 Claim. (Cl. 129—1)



A correspondence sheet adapted for filing in aligned, non-stepped relation, and perforated with predetermined uniform spacing with respect to the top, bottom and side margins, said perforations being performed from the back toward the front thereof thereby causing the portion of the sheet which surrounds and defines the perforation to turn upwardly to form an upwardly inclined beveled surface whereby the lower entrance to the perforation has a larger diameter than the upper entrance to facilitate the placing of the sheets upon filing devices, the upper edge of the wall defining the perforation being circumferentially smooth, said sheet being provided with coloring matter adjacent said perforations on the upturned side thereof and contrasting to the remainder of the sheet to prevent writing on the front of the sheet and on the back of the sheet which would be concealed by superimposed filed sheets and to cooperate with said upturned edges as a visible guide to locating the filing devices, said perforations and the coloring operations being performed before any writing upon said sheet.

2,285,318
APPARATUS FOR POLISHING GLASS
Frederic Barnes Waldron, Prescot, England, assignor to Pilkington Brothers Limited, Liverpool 2, England, a British company
Application December 10, 1940, Serial No. 369,437
In Great Britain December 6, 1939
13 Claims. (Cl. 51—112)



1. Apparatus for polishing glass in strip form, comprising rollers for driving the glass forward in a linear path, spaced along said path, a coaxial pair of rotatable frames between two of said rollers, each frame carrying rotatable polishing discs spaced apart of which the axes are parallel to the axes of the frames and equidistant therefrom, the discs of one frame operating on one face of the glass and the discs on the opposed frame on the other face of the glass, the discs on the one frame being all similar to and in register with the respective opposed discs on the other frame, means for driving both frames at the same speed in the same direction and for maintaining the discs on the one frame always in register with the discs on the other frame.

2,285,319
POLYSEGMENTAL PACKING RING
Harley T. Wheeler, Dallas, Tex.
Application April 7, 1939, Serial No. 266,565
2 Claims. (Cl. 288—7)

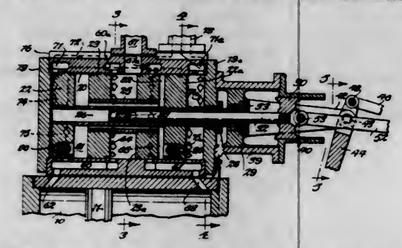


1. A rectangular packing ring for a rod passing through a stuffing box, said ring comprising a plurality of right triangular sections arranged about a common axis and each having the base thereof arcuately longitudinally contoured, said contoured bases lying in a common cylindrical surface about said axis, the longitudinal side faces of said sections lying in spaced substantially parallel planes and the adjacent edges of successive sections being closely juxtaposed so that the contoured bases form a segmented cylindrical surface, and a housing of resilient material engaging the hypotenuse and side faces of said sections and having a peripheral surface adapted to engage the inner surface of the stuffing box.

2,285,320
STEAM ENGINE VALVE
Howard Whitmore, Lockport, N. Y.
Application July 1, 1941, Serial No. 400,686
5 Claims. (Cl. 121—146)

1. In a valve chest for a steam engine, a cylin-

drical bore, four spaced reciprocable piston valves mounted in the bore, said valves being grouped in pairs consisting of the two outermost valves and the two innermost valves, means connecting the outermost valves for movement in unison, other means connecting the innermost valves for movement in unison, said last named means for connecting the innermost valves comprising a hollow sleeve having a large cross-sectional area, each of the innermost valves being formed with an aperture in communication with the interior



of the sleeve, thereby providing a space for free fluid communication between the intervalve spaces existing between adjacent valves of each pair, whereby, upon relative motion of the valves in each pair, pressure equalization between said intervalve spaces is effected, ports formed in the cylinder bore and adapted to be alternately covered and uncovered by the movement of said valves to establish an operative sequence of admission, cut-off, and exhaust for said steam envalve pairs in timed relation.

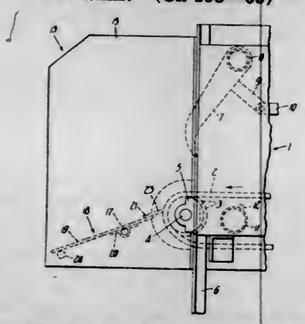
2,285,321

DELIVERY TABLE

Erich R. Zademach, Elizabeth, N. J., assignor to Metalwash Machinery Co., Inc., New York, N. Y., a corporation of New York

Application February 17, 1939, Serial No. 256,843

4 Claims. (Cl. 198—65)



1. Conveying apparatus comprising a continuous belt conveyor having a downwardly curved discharge end, and a delivery table extending downwardly and outwardly from said conveyor end, the table having a flat upper surface with a margin immediately adjacent and below the top of the curved end of the conveyor in position to receive articles discharged therefrom, and being yieldably mounted for tilting said table downwardly and outwardly away from the conveyor under pressure of an article caught between said margin and the conveyor, for a distance sufficient to release such article, the table being normally free from tilting engagement with the conveyer.

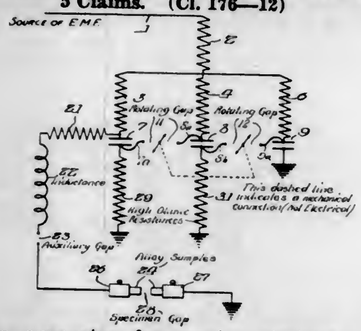
2,285,322

ELECTRICAL DISCHARGE APPARATUS FOR SPECTOGRAPHIC ANALYSIS AND THE LIKE

Stanley Anderson, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois

Application July 2, 1941, Serial No. 400,808

5 Claims. (Cl. 176—12)



1. An apparatus for causing electrical discharges between samples of a material comprising a circuit having a gap, a supply of electromotive force, a plurality of resistances arranged in a plurality of groups, the said groups of resistances being individually wired in series and jointly in parallel, a condenser in series with each of said groups of resistances and so arranged that resistances are on each side of the condensers in at least all but one of the groups, the said condensers having discharge terminals, a rotor intermittently in series with the condenser discharge terminals, a motor to rotate the said rotor, the said rotor and condenser discharge terminals having gaps therebetween, a resistance and an inductance in the circuit with the first said gap, the said circuit having an auxiliary gap whereby discharge of condenser charges is prevented until full capacity of the condenser charges is attained.

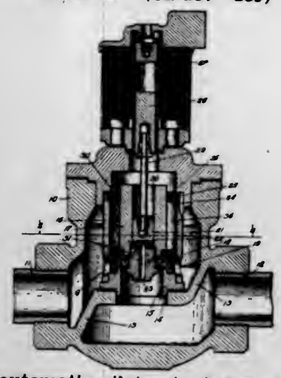
2,285,323

AUTOMATIC VALVE

Henry L. Beekley, Glen Ellyn, and Richard H. Gilbert and Rollin H. Lacart, Chicago, Ill., assignors to The Electrimatic Corporation, a corporation of Illinois

Application January 19, 1940, Serial No. 314,730

3 Claims. (Cl. 137—139)



1. An automatic pilot-actuated floating piston valve of the character described for regulating fluid flow, including: a valve casing having an inlet and an outlet; a partition in the casing separating the inlet and outlet, the partition having an opening therein; a piston; a valve member carried by the piston adapted to close the opening; pilot means; means for moving the pilot to effect movement of the piston and member; and a pair of annular seals surrounding the piston and spaced longitudinally thereof, each seal being of resilient material disposed, at least as to the portion adjacent the surface with which it makes rubbing contact, at an angle to the surface, one of the seals being fixedly positioned and the other being movable with the piston and said angles being oppositely disposed, whereby the annular space between the seals provides a dash-pot action.

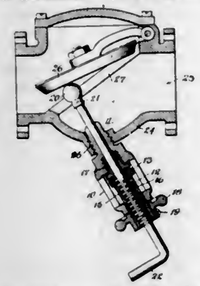
2,285,324

CHECK VALVE OPERATOR

Alexander Edgar Bennett, New York, N. Y.

Application November 12, 1941, Serial No. 418,685

5 Claims. (Cl. 251—125)



1. The combination with a check valve having a casing and a pivotal valve member, of a device detachably connected with said casing, said device including a screw turnable to move said valve member to open position and to hold the same therein, and said screw being movable axially without turning the same to allow said valve member to quickly and forcibly seat itself under pressure of fluid in said casing.

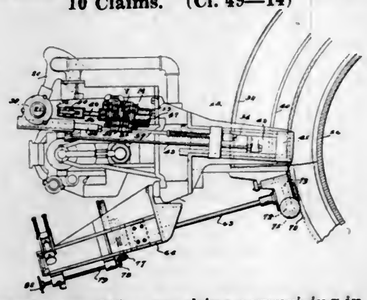
2,285,325

KNIFE OPERATING MECHANISM FOR GLASS BLOWING MACHINES

Joseph P. Benoit, Alton, Ill., assignor to Owens-Illinois Glass Company, a corporation of Ohio

Application November 27, 1940, Serial No. 367,445

10 Claims. (Cl. 49—14)



1. A glass molding machine comprising in combination a mold carriage rotatable about a vertical axis, a mold mounted to rotate with the carriage, a knife shaft mounted on the carriage, a knife on said shaft, means for moving the shaft lengthwise and thereby moving the knife toward and from the mold, said means including a fluid operated motor and operating connections between the motor and said shaft, a motor control valve controlling a supply of fluid under pressure to the motor for operating it, a fluid pressure line extending to said valve for supplying fluid under pressure to operate the valve, a fluid control valve in said pressure line and mounted to rotate with the mold carriage, and automatic means for actuating the fluid control valve periodically when it reaches a predetermined position during its rotation and thereby effecting an operation of the motor and of the knife shaft at a predetermined point during the rotation of the mold carriage.

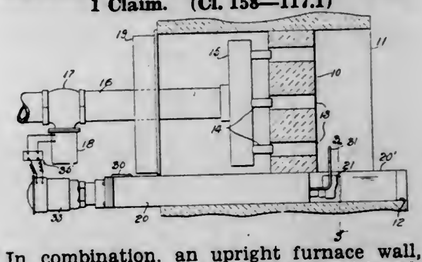
2,285,326

SAFETY PILOT

George C. Bergtholdt, Jr., Tulsa, Okla., assignor to Webster Engineering Company, Tulsa, Okla., a corporation of Delaware

Application September 21, 1939, Serial No. 295,880

1 Claim. (Cl. 158—117.1)



In combination, an upright furnace wall, a burner comprising a ported block positioned in said wall to fire into said furnace, a relatively long wide duct positioned in said wall at one side of said burner with the forward end of the duct positioned under said block, a gas burning pilot for igniting the fuel issuing from said block and positioned in advance of the forward end of said duct and being passable through the duct, and means for shutting off the supply of fuel to the burner in case the pilot is ineffective to ignite the fuel issuing from said block, said shut-off means comprising an L-shape current conducting member whose short arm is normally positioned in advance of the front end of said duct to extend upwardly at an angle across the path of flame from said pilot and whose long arm extends rearwardly into said duct, said member as a whole being passable rearwardly through the duct when the short arm thereof is horizontally disposed.

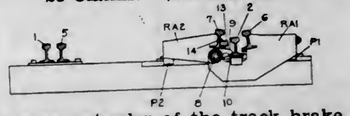
2,285,327

CAR RETARDER FOR RAILROADS

Ned C. L. Brown, Scottsville, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.

Application May 6, 1940, Serial No. 333,589

23 Claims. (Cl. 188—62)



1. In a car retarder of the track brake type, for cooperation with a track rail, a first support at one side of a track rail, an opposite movable support at the other side of the track rail, a rocker arm supported at one end on the movable support and extending toward the track rail, a

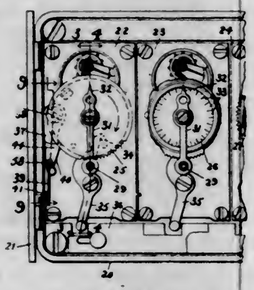
brake shoe operatively connected to the rocker arm and positioned above and adjacent one side of the track rail, a beam supported at one end by the first support and extending toward the track rail, a brake shoe carried by the beam and positioned above and adjacent the other side of the track rail and spaced from the other brake shoe a distance less than the thickness of a car wheel, shelf means on one of the brake shoes for supporting a car wheel clear of the track rail, and a pivot pin interconnecting the rail ends of the arm and beam and positioned so that the entire retarder structure is supported solely by said two supports when a car wheel is in the retarder.

2,285,328

ANTILOCKOUT TIME LOCK

Raymond H. Clarkson, Science Hill, Ky., and William T. Benham, Norwood, Ohio, assignors to The Mosler Lock Company, Covington, Ky., a corporation of Ohio

Application June 5, 1941, Serial No. 396,746
12 Claims. (Cl. 70—272)



1. An anti-lockout time lock comprising a time movement having a winding dial, and means mounted alongside the dial and cooperating with the dial to arrest winding movement of the dial at a predetermined position between the limits of movement of said dial.

2,285,329

PREPARATION OF 2-CHLOROALLYL COMPOUNDS

Gerald H. Coleman and Robert W. Sapp, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

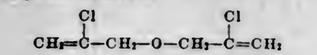
No Drawing. Application December 6, 1937, Serial No. 178,401
16 Claims. (Cl. 260—614)

1. In a method for the preparation of 2-chloroallyl compounds, the step which consists in heating to a reaction temperature a mixture of 1,2,3-trichloropropane and a dilute aqueous solution of an alkaline agent.

6. In a method of preparing 2-chloroallyl chloride, the step which consists in heating 1,2,3-trichloropropane to a reaction temperature with not more than two chemical equivalents of a dilute aqueous alkali.

10. In a method of preparing 2-chloroallyl alcohol, the step which consists in heating 1,2,3-trichloropropane to a reaction temperature with at least two chemical equivalents of a salt of a strong base and a weak acid in dilute aqueous solution.

13. Monomeric di-(2-chloroallyl) ether, a colorless liquid distilling at approximately 114°–115° C. under 118 millimeters pressure, having a specific gravity of approximately 1.180 at 20° C. and having the formula

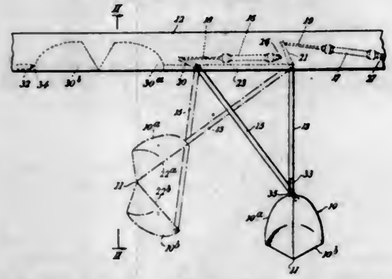


2,285,330

LATERAL STABILIZER FOR FLYING BOATS AND AMPHIBIANS

Percy Reginald Dowden, East Cowes, Isle of Wight, and Henry Knowler, Wootton, Isle of Wight, England, assignors to Saunders-Roe Limited, East Cowes, Isle of Wight, England

Application April 26, 1940, Serial No. 331,852
In Great Britain April 26, 1939
2 Claims. (Cl. 244—102)



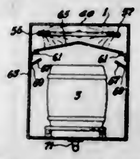
1. In an aircraft, the combination of a wing, a stabilizing float divided along the longitudinal plane containing the keel into two separate watertight portions, a fore and aft hinged joint extending along the keel line and connecting the two portions of the float, a linkage for supporting the float in its operative position below the wing and with the two portions mated, and a device for operating on said linkage to retract the float laterally into the wing, the linkage being arranged, on retraction, to open the hinge and separate the two portions of the float, to enable them to be accommodated side by side in the wing.

2,285,331

APPARATUS FOR TREATING ORGANIC MATERIAL

Frank B. Doyle, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey

Application October 17, 1939, Serial No. 299,797
2 Claims. (Cl. 131—133)



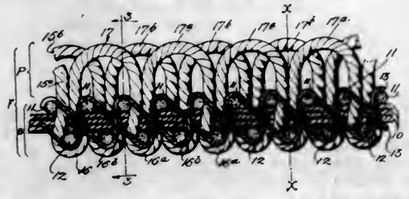
1. In an organic material treating apparatus having a treating chamber provided with evacuators to withdraw fluid therefrom and a steam conduit to introduce steam thereto, means to introduce water to wet and cool the walls of the chamber after steam has been introduced for preventing transfer of heat therefrom to the steam comprising a spray header, a baffle plate below the spray header spaced from the walls of the treating chamber, angle irons secured to the chamber wall to support the baffle plate, and auxiliary baffle plates below the first said baffle plate secured to the walls of the treating chamber and having openings along the walls to enable water striking the auxiliary baffle plates to be directed along the walls of the chamber for cooling them.

2,285,332

CARPET

Russell C. Gebert, Elkins Park, Pa., assignor to Charles P. Cochrane Co., Bridgeport, Pa., a corporation of Pennsylvania

Application October 26, 1939, Serial No. 301,492
3 Claims. (Cl. 139—403)



1. A pile carpet comprising a solid ground fabric composed of an upper series of wefts in one horizontal plane, a lower series of wefts in warpwise staggered relation to said upper wefts in another relatively spaced parallel plane, cooperating pairs of opposed binder warps respectively passing over and under successive upper and lower wefts alternately, a group of superposed stuffer warps between adjacent pairs of binder warps with the stuffer warps of each group in superposed relation between said upper and lower wefts to provide substantial thickness to the ground fabric, and a relatively heavy pile warp between each pair of binder warps and adjacent groups of stuffer warps, with each pile warp formed into a series of binder loops passing down between spaced pairs of upper wefts to and around single lower wefts intermediate said pairs of upper wefts within said ground fabric and formed into elongated pile loops projecting upwardly from said ground fabric and extending across a pair of said upper wefts intermediate successive binder loops warpwise of the carpet.

2,285,333

ROSIN-CONTAINING SOAPS

Irvin W. Humphrey, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 31, 1940, Serial No. 372,497
12 Claims. (Cl. 252—369)

1. A soap comprising saponified hydrogenated rosin which is saturated by combination with hydrogen to an extent from about 60 to about 95 per cent of the theoretical for two double bonds of its unsaturated rosin acid radicals and a saponified fatty acid.

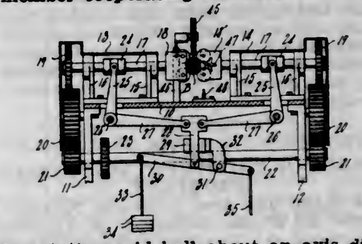
2,285,334

WINDING MACHINE

Victor H. Hurt, Cranston, R. I., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application April 29, 1941, Serial No. 390,878
10 Claims. (Cl. 242—3)

1. A winding machine comprising, means for holding a ball including means whereby the ball may be continuously rotated about a given axis, means for supplying a continuous element to the ball to be wound thereupon as the ball is rotated and disposed to supply said element in a plane at 90 degrees from said given axis, and mechanism including said ball holding means and a stationary member cooperating therewith for intermittently rotating said ball about an axis disposed at all times in said plane.

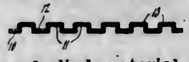


2,285,335

EMBOSSED MATERIAL AND METHOD OF MAKING THE SAME

Victor H. Hurt, Cranston, R. I., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application April 2, 1940, Serial No. 327,466
2 Claims. (Cl. 41—24)



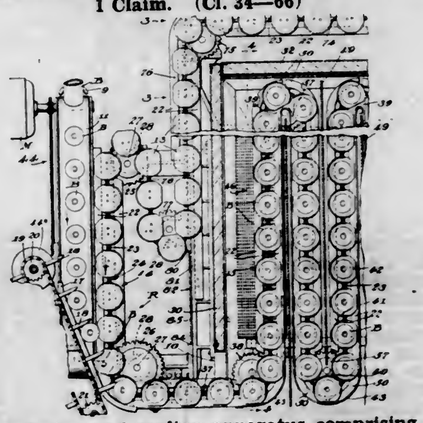
1. An embossed plied material of substantially uniform thickness throughout, comprising an embossed, vulcanized, rubber sheet of substantially the same thickness throughout and provided with projections at one face and corresponding depressions at its opposite face, said sheet being elastic throughout and adapted yieldingly to retain its embossed pattern, and a non-elastic sheet adhered thereto throughout and having the embossed pattern of the rubber sheet imparted accurately thereto.

2,285,336

AUTOMATIC DRYING APPARATUS

Albert S. Jackson, Wood River, and Clarence A. Heyne and Francis S. Wright, Alton, Ill., assignors to Owens-Illinois Glass Company, a corporation of Ohio

Application February 25, 1939, Serial No. 258,424
1 Claim. (Cl. 34—66)



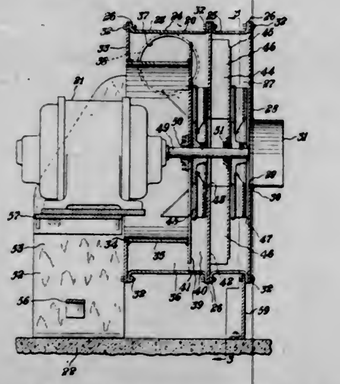
A drying and cooling apparatus comprising a horizontal frame, a drying oven and a cooling chamber mounted end to end on the frame in longitudinal series, a horizontal series of pads adapted to support thereon respective articles

to be treated, means for moving the pads horizontally successively in a serpentine path through the drying oven and cooling chamber from an article receiving zone to an article discharging zone, and for returning the pads from the article discharging zone to the article receiving zone outside of the drying oven and cooling chamber.

2,285,337
PROCESS OF PRODUCING SULPHONATED PRODUCTS
Roland Kapp and Leo J. Mosch, Newark, and Everett T. Woods, Arlington, N. J., assignors to National Oil Products Company, Harrison, N. J., a corporation of New Jersey
No Drawing. Application March 24, 1938, Serial No. 197,858
9 Claims. (Cl. 260—400)

1. In a process of producing a substantially anhydrous and salt-free sulphonated material selected from the class consisting of animal and vegetable oils, fats and their respective acids, the steps which comprise partially dehydrating such a material, in its ordinary finished state, by subjecting the same to heat under reduced pressure, dispersing the partially dehydrated material in at least an equal volume of a substantially anhydrous organic solvent for said sulphonated material, separating the precipitated inorganic salts and removing the solvent and residual water by distillation.

2,285,338
CENTRIFUGAL BLOWER
Carleton B. Kidney, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application October 28, 1939, Serial No. 301,696
2 Claims. (Cl. 230—117)



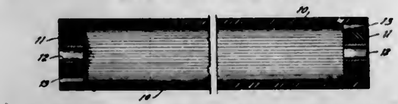
1. A centrifugal blower, comprising a casing consisting of tubular sections of sheet-material having lateral flanges at their ends, flat plate covers for the ends of the casing, a flat diaphragm between the tubular sections to divide the interior of the casing into impeller chambers and extending between the flanges at the opposed ends of the tubular sections, bolts for securing the flanges to the diaphragm, impellers in the impeller chambers, a tubular member on one end closure extending into the casing and cooperating therewith to define a discharge chamber, a flat plate on the tubular member to form a closure for one end of the tubular member and to serve as a bounding surface for one of the impeller chambers, a motor extending into the tubular member to drive the impellers, and a pedestal secured to the end closure carrying the tubular member for supporting the casing and the motor.

2,285,339
PORTABLE RESISTANCE LOAD
Werner J. Larson, West Hartford, Conn., assignor to The States Company, Hartford, Conn., a corporation of Connecticut
Application August 27, 1941, Serial No. 408,495
7 Claims. (Cl. 201—69)



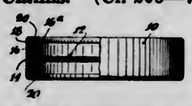
1. A portable resistance load which comprises a collapsible supporting frame, a plurality of resistance units hinged between walls of said frame, said units folding together flatwise when the frame is collapsed and unfolding and extending parallel with each other at spaced distances apart when the frame is expanded, conducting terminals fixed on said frame, and conducting means connected to and moved by the movements of said units, said conducting means being positioned to be carried into contact with said terminals as the frame is expanded and carried out of engagement with said terminals as the frame is collapsed.

2,285,340
POTATO WASHER ROLLER
Thorval J. Lockwood, Gering, Nebr.
Application January 13, 1941, Serial No. 374,149
1 Claim. (Cl. 146—194)



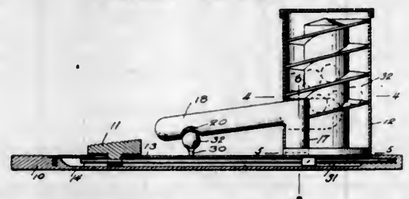
A roller comprising: a cylindrical tube of resilient rubber; a circular end plug forced into each extremity of said tube to frictionally engage the inner walls thereof; and a metallic bearing bushing axially positioned within each end plug, there being grooves formed in the peripheries of the end plugs to provide drainage from the interior of the roller.

2,285,341
ASH TRAY
Margaret H. Lyon, New York, N. Y.
Application August 10, 1939, Serial No. 289,360
2 Claims. (Cl. 206—72)



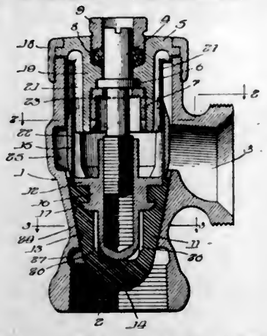
1. An ash tray comprising a one-piece open-ended shallow tubular member and a separable one-piece bottom member cooperating to produce a reversible tray, said tubular member being provided intermediate its top and bottom with an inner peripheral groove equally spaced from the ends of said tubular member and dividing the member into halves of similar shape and size, said groove operating to support and hold said bottom member in spaced relation to a supporting surface, and said bottom member being brought into pressure engagement with said supporting means and flexed into and out of pressure engagement throughout the periphery of the groove with said supporting means without dismantling said tubular member.

2,285,342
TEEING DEVICE FOR GOLF BALLS
Alexander C. MacLellan, Newport, R. I., assignor, by mesne assignments, to Hugo Key, Newport, R. I.
Application March 16, 1940, Serial No. 324,381
7 Claims. (Cl. 273—33)



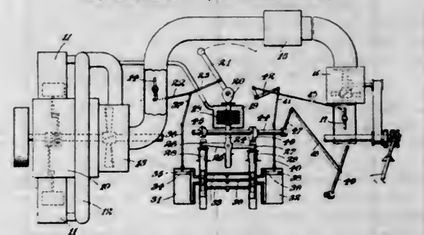
1. In a device of the character described, in combination, a relatively flat rectangular base plate having a hopper at one end with a spiral support therein, an actuating pedal near the opposite end, a feed arm associated with the hopper comprising a stud, a cylindrical portion of the feed arm surrounding the stud, and a downwardly extending lateral projection for transferring the balls from the hopper to the tee, said cylindrical portion of the feed arm having an opening communicating with the end of the spiral path and adapted to block said spiral path when said feed arm is turned to a position to deliver a ball to the tee, and means associated with said stud adapted to prevent more than one ball being fed to the feed arm when said feed arm is in delivering position.

2,285,343
VALVE
Eugene W. Marchand, Jr., Maywood, Edward A. Fredrickson, Chicago, and Roy H. Zinkil, Oak Park, Ill., assignors to Crane Co., Chicago, Ill. a corporation of Illinois
Application September 28, 1940, Serial No. 358,796
5 Claims. (Cl. 251—48)



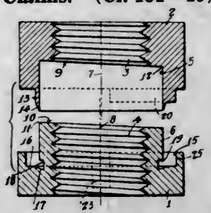
1. A valve comprising a casing having an inlet and an outlet, a circular seat of varying cross-section within the said casing, a closure member for said seat, said closure member comprising a hollow circular resilient seating member of varying cross-section and a partially enclosed holder member therefor, the means providing for said partial enclosure of the said holder member comprising a cylindrical walled portion extending within an upper recessed portion of the said casing, said seating member having chambers interiorly thereof whereby upon closing the said valve the resilient material displaced by the seat may distort into the said chambers, the said circular seat having a roughened seating surface thereon.

2,285,344
SUPERCHARGED INTERNAL COMBUSTION ENGINE
Elwyn Ivo Banks Marples and Horace Nathaniel Gorrell, Bristol, England, assignors to The Bristol Aeroplane Company Limited, Bristol, England, a British company
Application February 13, 1941, Serial No. 378,826
In Great Britain February 13, 1940
10 Claims. (Cl. 123—119)



3. In an internal combustion engine the combination of two supercharging blowers arranged in series, a throttle valve on the inlet of each blower, means which selectively renders either valve free to be operated by the usual controls and holds the other valve in or near its fully open position, said blowers comprising an engine driven blower, and an auxiliary blower, an operative connection between said means and the throttle valves whereby the valve of the auxiliary blower is held open when that blower is inoperative, said blower being driven by the engine through a clutch, the combination with the clutch control lever, of a rocking shaft operated thereby to connect a single throttle control lever to one or other of the control valves.

2,285,345
LOCK-NUT CONSTRUCTION
Albert W. Miller, Jamaica, N. Y.
Application June 10, 1940, Serial No. 339,702
7 Claims. (Cl. 151—19)



1. In a lock nut construction to be applied on an externally threaded member, the combination of a pair of telescoping nut-members with threaded openings to screw on to the externally threaded member, an eccentric connection between said nut-members capable of assuming a neutral position in which the axes of the threaded openings are in alignment with each other, said nut-members having parts engaging each other in the said neutral position of the nut-members for yieldingly limiting the telescoping movement of said nut-members toward each other, but constructed so as to permit the nut-members to telescope more completely when the same are rel-

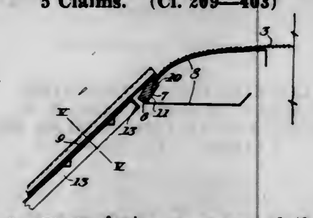
atively rotated, and correlated stop means on the nut-members for arresting the relative rotation of said nut-members shortly after one of the nut-members has been rotated relatively to the other through the critical angle that effects the maximum relative lateral displacement of the nut-members, said stop means cooperating to enable the backward rotation of the outer nut-member in unscrewing the same, to back off the inner nut-member.

2,285,346
CABINET CONSTRUCTION
James B. Moncrief, Copperhill, Tenn.
Application May 7, 1941, Serial No. 392,212
5 Claims. (Cl. 98—29)



1. In a cabinet assembly, the individual units of which abut at their ends, a base portion for each unit having end, rear and front walls forming an air duct, said end walls having openings therein registering with corresponding openings of the adjacent units, a gasket surrounding the openings and interposed between abutted units to prevent the escape of air between the units, there being openings in said front wall for the escape of air from the duct, and means associated with the assembly to force air through the ducts from unit to unit for discharge through the openings in the front wall.

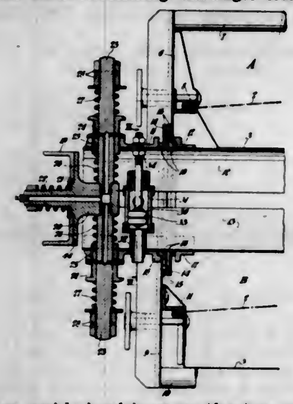
2,285,347
SCREEN APPARATUS
Thomas Hubbard Morgan, Kittanning, Pa., assignor to S. S. Bruce, H. C. Oliver, Pittsburgh, and T. Hubbard Morgan, Kittanning, Pa., trustees
Application June 26, 1940, Serial No. 342,496
5 Claims. (Cl. 209—403)



1. In a screen device, a screen cloth having a reenforcing strip along one edge thereof having a thickness to provide a shoulder on one side of the cloth, an anchorage for the screen cloth at the discharge end of the device including a fixed abutment engageable by the shoulder of said strip, a discharge spout having a portion movable in an inclined plane in relation to said abutment to selectively maintain the strip in engagement with said abutment, and means for exerting a tension on the opposite edge of the screen cloth.

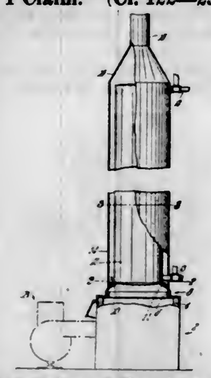
2,285,348
MATERIAL SEPARATOR APPARATUS
Thomas Hubbard Morgan, Kittanning, Pa., assignor to S. S. Bruce, H. C. Oliver, Pittsburgh, and T. Hubbard Morgan, Kittanning, Pa., trustees
Application June 26, 1940, Serial No. 342,497
9 Claims. (Cl. 209—315)

9. In a material separator device, a frame including side members, transverse supporting members extending through and outwardly beyond the side members, outriggers extending longitudinally of the frame, spaced suspension members carried thereby and extending inwardly beyond the outer ends of the transverse members, alined guides carried by said suspension members and extending through the transverse



members, guide bushings on the transverse members slidably engaging the guides, alined springs opposing movement of the bearings and frame in opposite directions on the guides, said springs providing a full-floating resilient support for the frame, and a separate vibrating unit supported by the frame adjacent each of said guides, said vibrating units having straight-line reciprocating movement in a direction parallel to said guides.

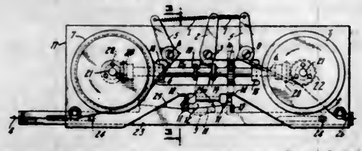
2,285,349
STEAM GENERATING APPARATUS
Antoni Mussynski, Southampton, Mass.
Application June 20, 1940, Serial No. 341,482
1 Claim. (Cl. 122—234)



Heating apparatus of the class described comprising in combination, a hollow base member formed to provide a combustion chamber having an open upper side, a plate member supported on top of said base member formed to have a vertically extending flange surrounding a central opening therein, an annular ring member having a vertically-disposed lower part encircling said flange and an upper part which flares inwardly and upwardly from the upper edge of said lower part above said flange and opening, a vertically-disposed tubular shell member having its lower marginal edge engaging said upper part of the

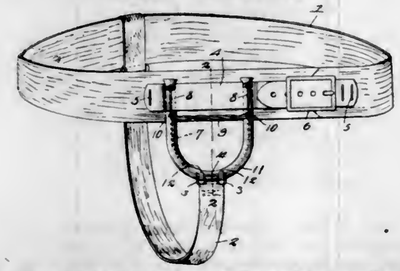
ring member intermediate the upper and lower marginal edges thereof so as to be supported thereby, a boiler of less diameter than said shell vertically disposed therewithin and providing a space therebetween, said boiler also being of such diameter that its perimeter is spaced from said upper marginal edge of the inwardly-flaring upper part of the ring member so as to provide a space therebetween which leads into the first-named space, and a plurality of separate supporting members extending inwardly towards one another from the inner side of said ring member below the upper marginal edge thereof, the lower side of said boiler being supported by said supporting members and the latter being spaced apart to provide passageways leading from the combustion chamber to said spaces.

2,285,350
INK RIBBON REVERSING MECHANISM FOR BUSINESS MACHINES
Hans Neumann-Lexius, Berlin-Lankwitz, Germany, assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application September 28, 1940, Serial No. 358,895
In Germany January 16, 1940
4 Claims. (Cl. 197—165)



1. In a ribbon reversing mechanism having a pair of spools and a shiftable drive member positionable to drive either spool, the combination of a pivoted lever coacting with the drive member to shift the same, latching means to hold the lever in either of its two positions, a follower for each spool engageable with the ribbon, a tension spring between each follower and said shift lever, the follower, associated with the spool upon which the ribbon is winding, being caused by the ribbon to tension its related spring, and means controlled by the ribbon as it unwinds from the opposite spool for releasing said latching means whereby the tensioned spring will actuate the shift lever to reverse the drive for the spools.

2,285,351
RUPTURE HOLDER
William M. Nix, Lakeland, Fla.
Application August 21, 1941, Serial No. 407,813
7 Claims. (Cl. 128—107)



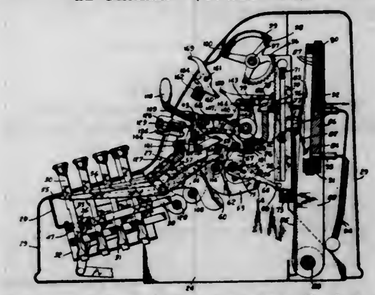
1. In a truss, a U-frame shaped to conform to the margin of the rupture to be retained, the upper portions of the side arms of the frame terminating in means for assembly with a body-engaging support, the lower bend of the frame being provided with a device for engagement with a perineal strap.

2,285,352
ELECTRICAL CONTACT
Christian Paulson, Elmhurst, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application June 10, 1939, Serial No. 278,402
8 Claims. (Cl. 200—87)



1. In an electrical circuit closing device, a permanently magnetized contact, and a magnetic return member mounted closely adjacent said magnetized contact for limiting the field of magnetic attraction of the magnet.

2,285,353
CALCULATING MACHINE
John R. Peirce, deceased, late of New York, N. Y., by Thomas A. Gavin, executor, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Original application May 9, 1933, Serial No. 670,114. Divided and this application June 17, 1938, Serial No. 214,301
11 Claims. (C. 235—60)

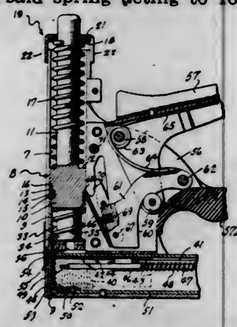


1. In a machine of the class described, a group of manipulative digit keys comprising a ten key keyboard, a series of slide one for each denominational order, a common adjusting means under control of the keys for adjusting the slides differentially one by one as the keys are operated, means associated with said adjusting means for coordinating the successively operated keys with the different slides, detents for holding said slides in adjusted position, an impulse emitter common to said series of slides, a series of conductors connected to said emitter, and contacts moved by said slides to cooperate with various conductors, whereby said slides select impulses representative of an amount.

2,285,354
FASTENER DRIVING MACHINE
Fridolin Pelzer, Norwalk, Conn., assignor to The E. H. Hotchkiss Company, Norwalk, Conn., a corporation of Connecticut
Application February 10, 1942, Serial No. 430,227
8 Claims. (Cl. 1—49)

1. A fastener driving machine comprising a housing having an upright guideway open at the top, a driver and its support mounted in the

guideway for reciprocating movement, a spring for moving the driver downwardly for driving a fastener, a removable yoke having a wall over the open top of the guideway and forming an abutment for said spring, means for detachably connecting said yoke to the housing comprising downwardly directed hooks on the housing and cooperating means on the yoke engaging under the hooks, said spring acting to force the yoke



upwardly to retain said cooperating means in the hooks so that the yoke must be forced downwardly against the action of the spring to release the yoke, releasable stop means on the yoke to engage a shoulder on the housing to prevent said downward movement of the yoke, operating means for raising the driver against action of said spring preparatory to driving a fastener, and means for feeding fasteners to the driving position under the driver.
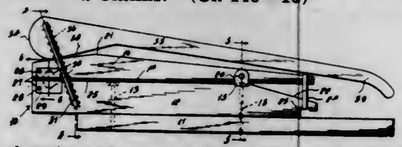
2,285,355

NUTCRACKER

Willie Erwin Pricer, Galveston, Tex.

Application February 13, 1941, Serial No. 378,804

2 Claims. (Cl. 146—16)



1. A nut cracker comprising an elongated stationary jaw having an upwardly projecting U-shaped bracket adjacent one end thereof, a movable jaw arranged co-extensively therewith and having a portion thereof disposed between the upset legs of the bracket and pivotally connected thereto, a link pivotally connected to the stationary jaw adjacent the end thereof, remote to the bracket, and in which the complementary end of the movable jaw is loosely disposed, a lever pivotally connected at one of its ends to said link, and said lever being provided with a cam portion disposed eccentrically to its pivot for engaging and moving the movable jaw toward the stationary jaw.

2,285,356

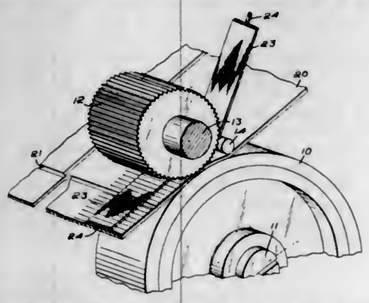
MANUFACTURE OF CARTONS

Andrew R. Ridderstrom, Nahant, Mass., assignor to Prime Manufacturing Company, Lynn, Mass., a corporation of Massachusetts

Original application January 13, 1940, Serial No. 313,709. Divided and this application June 10, 1940, Serial No. 339,618

4 Claims. (Cl. 229—49)

1. A reinforced box blank comprising a creased cardboard body, a tape adhesively secured to said body across the crease line and corrugated into the cardboard body along closely spaced in-



dented lines extending transversely of the tape, and a cord confined by said tape longitudinally beneath it and substantially completely embedded into the cardboard body.

2,285,357

PROCESSING OF TEXTILE FIBERS

Edwin A. Robinson, Chatham, N. J., assignor to National Oil Products Company, Harrison, N. J., a corporation of New Jersey

No Drawing. Application June 2, 1938, Serial No. 211,395

16 Claims. (Cl. 252—8.6)

1. A composition for softening and lubricating textile fibers comprising a blown fatty oil selected from the group consisting of blown semi-drying oils and blown non-drying oils and an ester selected from the group consisting of the lower monohydric alcoholic esters of the higher fatty acids, the lower monohydric alcoholic esters of naphthenic acids and the lower fatty acid esters of the fatty alcohols containing at least eight carbon atoms.

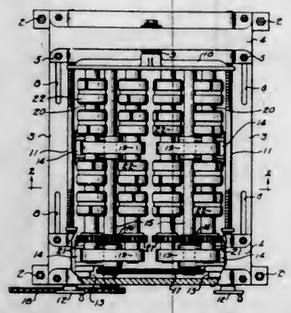
2,285,358

COIL CRADLE

Fredrich J. Rode and Meredith R. Hatch, Toledo, Ohio, assignors to E. W. Bliss Company, Brooklyn, N. Y., a corporation of Delaware

Application January 22, 1940, Serial No. 315,132

3 Claims. (Cl. 242—78)



3. In a device of the character described, a coil-supporting roll having a pair of axially-spaced straps removably secured thereto, the ends of each strap being spaced to form a gap, and the gap of one strap being spaced circumferentially of the roll substantially 180° from the gap of the other strap.

2,285,359

PHTHALOCYANINE SULPHONIC ACIDS

Georg Rösch, Cologne-Deutz, and Otto Bayer and Hans Hoyer, Leverkusen-I. G. Werk, Germany, assignors to General Aniline & Film Corporation, a corporation of Delaware

No Drawing. Application November 25, 1938, Serial No. 242,372. In Germany November 20, 1937

6 Claims. (Cl. 260—314)

1. The process which comprises causing a copper compound and urea to react at an elevated temperature upon a mixture of a benzene-o-dicarboxylic acid containing in 4-position on the nucleus a sulphonic acid radical selected from the group consisting of $—SO_3H$, SO_2Cl and $—SO_2.NH_2$, and a benzene-o-dicarboxylic acid being free from such substituent.

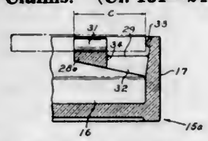
2,285,360

ASH TRAY

William A. Rosenberger, Hagerstown, Md.

Application April 23, 1940, Serial No. 331,247

4 Claims. (Cl. 131—240)



1. A safety ash tray comprising an ash receiving bowl, a supporting member carried by said bowl and engaging a portion of a cigarette intermediate its ends, said supporting member comprising at least one saddle disposed within the confines of said bowl in spaced relation to the bottom of said bowl and having a substantially U-shaped groove for receiving said cigarette and means comprising a protuberance formed on the inside of said bowl and disposed substantially coaxially with said member and in substantial alignment with the longitudinal center line of a cigarette lying in said groove for contacting the unlighted end of said cigarette and cooperating with said member to removably support said cigarette with said end out of contact with the ashes in said bowl and tending to prevent its accidental dislodgment.

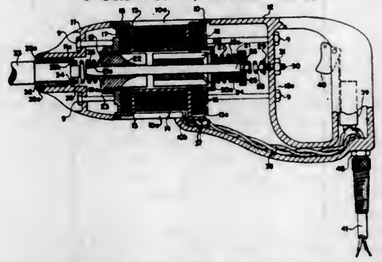
2,285,361

ELECTRIC RECIPROCATING TOOL

Herbert C. Roters and Harold C. Pasini, Hoboken, N. J., assignors to Standard Electric Hammer Corporation, a corporation of New Jersey

Application July 6, 1939, Serial No. 282,965

5 Claims. (Cl. 172—126)



1. An electric tool unit comprising a casing, a tool shank disposed at one end of said casing, a pair of coaxial reciprocable magnetic cores normally relatively biased to provide a predetermined air gap therebetween, an exciting winding surrounding said cores, means providing a magnetic circuit for said winding including said cores, a striking member rigidly secured to one of said cores and projecting through the other of said cores into said shank, and means for resiliently biasing a tool inserted in said shank to a given position such that the spacing between said striking member and the tool is normally slightly greater than said air gap, whereby at least a portion of the energy of said striking core is dissipated in striking said other core when the tool is in its normal position.

2,285,362

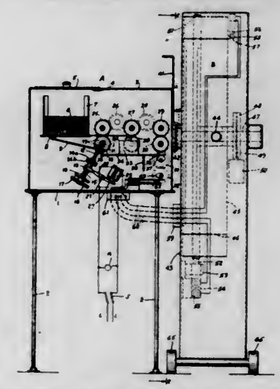
PROCESS FOR RECONDITIONING PERFORATED RECORD CARDS

Hermann A. Rottke, Berlin-Schlachtensee, Germany, assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application June 22, 1938, Serial No. 215,301

In Germany July 8, 1937

1 Claim. (Cl. 117—2)



A process for reconditioning a perforated record card controlling a tabulating machine, without materially altering its original dimensions, said process utilizing a filling material comprising cellulose acetate, acetone, and methyl chloride in a plastic form and consisting of the step of applying a thin layer of said material to the surface of said card for injecting said material into said perforations, calendering said card to cause said material to fully occupy said perforations, said application and calendering being effected upon said card in a region of sub-atmospheric air pressure, and then subjecting said card to a region of normal atmospheric pressure, whereby said filling material in said perforations is urged to rapidly dry and harden.

2,285,363

CRISPER PAN FOR DOMESTIC REFRIGERATORS

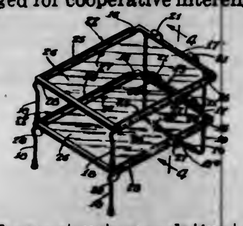
Theodore W. Rundell, Jenkintown, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application October 19, 1940, Serial No. 361,970

9 Claims. (Cl. 312—150)

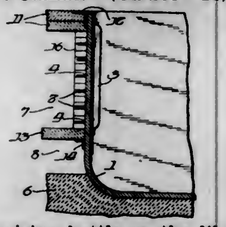
1. In a refrigerator having a food storage compartment and a pair of horizontally spaced studs secured to each side of the food storage compartment, a pair of similar frame structures arranged in said food storage compartment in relatively superimposed stacked relation on the floor of the food storage compartment and adapted to

be placed in side by side relation on the floor of said compartment interchangeably, a crisper pan slidably supported by each of said frame structures and arranged for horizontal sliding movement in the compartment, means including a removable cover on each of the frame structures arranged for cooperative interengagement to



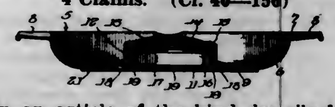
secure said frame structures relative to each other in superimposed relation, and means on each of the frame structures arranged to releasably engage the studs on the adjacent side of the food storage compartment and secure the frame structures against movement when disposed on the floor of said compartment.

2,285,364
GALVANIZING KETTLE
Charles J. Schipplock, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application May 19, 1941, Serial No. 394,093
2 Claims. (Cl. 263—11)



1. A galvanizing kettle or the like comprising a vessel suitable for containing molten metal, independent means for directing heated fluid onto the outer surface of said vessel, the said vessel having walls formed with substantially projecting surfaces both inside and outside thereof, the said projecting surfaces being arranged so as to break up the flow of heated fluid and molten metal inside and outside respectively of the said vessel, the said projecting surfaces on the inside of said vessel running substantially horizontally and the said projecting surfaces on the outside of the said vessel running substantially vertically, whereby a maximum amount of heat is extracted from the said fluid and delivered through the said walls to the said molten metal.

2,285,365
COMBINATION ASH TRAY AND DISPLAY HOLDER
John F. Schylander, Chicago, Ill.
Application May 6, 1940, Serial No. 333,626
4 Claims. (Cl. 40—156)



4. In an article of the kind described and in combination, a base, a vertically disposed hollow cylindrical member secured to the base adjacent the central portion thereof, said member having an inwardly extending flange adjacent its upper edge portion, a transparent member positioned in said hollow member adjacent said flange, a disc having indicia thereon and engaging the inner side of said transparent member, and a resilient annular member positioned within said hollow member for securing said transparent member and disc in position, said plate having an outer diameter normally greater than the inner diameter of the hollow member and being distorted to a concavo-convex cross section along radial lines in an amount such that its outer peripheral edge eingages said disc and presses against the inner face of said hollow member.

2,285,366
METHOD OF MAKING TERPENE DERIVATIVES
Donald H. Sheffield, Brunswick, Ga., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 3, 1939, Serial No. 297,673
14 Claims. (Cl. 260—611)

1. The process of reacting a mixture of water and an alcohol with a dicyclic unsaturated terpene compound in the presence of a suitable acidic catalyst, whereby a mixture of a terpene alcohol and a terpene ether is obtained, and recovering the terpene alcohol and terpene ether from the reaction mixture.

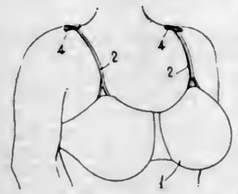
2,285,367
VOTING MACHINE
Ransom F. Shoup, Ardmore, Pa., assignor to The Shoup Voting Machine Corporation, Philadelphia, Pa., a corporation of Delaware
Application February 21, 1941, Serial No. 379,979
6 Claims. (Cl. 235—55)



5. In a voting machine, mechanism for registering the number of straight ticket operations of the machine comprising a row of rotatable vote-indicating spindles, a counter operably associated with each spindle, straight-ticket voter-actuated mechanism for simultaneously actuating all of said spindles in one direction, and biased for self-restoration with release after actuation, an additional spindle, a counter operably associated therewith, a member movable between a first and a second position and being biased for movement into said first position and having a plurality of notches, a pin carried by each spindle in radially spaced relation to its axis and extending into a notch, the notch receiving the pin carried by said additional spindle being of the same width as the diameter of said

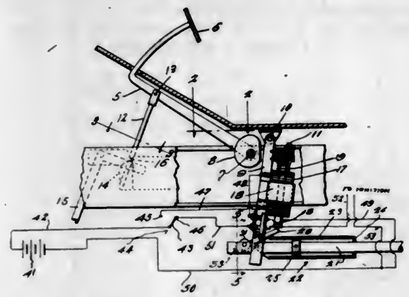
pin and each remaining notch being of greater width than the pin extending into it to provide lost motion connection between said pin and said member of sufficient extent to permit full actuation of the spindle associated with said pin without effecting movement of said member.

2,285,368
SHOULDER PROTECTOR FOR GARMENT SUPPORTERS
Louise Goodrich Smith, Atlanta, Ga.
Application June 6, 1940, Serial No. 339,175
5 Claims. (Cl. 2—336)



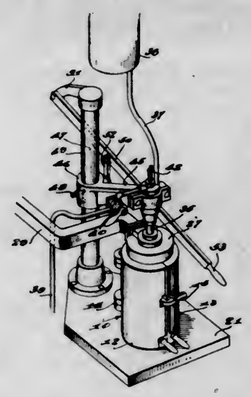
1. A pull distributing device for use in connection with the shoulder strap of a bust supporter or the like, said device comprising wing straps, said wing straps including forward sections which converge forwardly and are of different lengths and rear sections which converge rearwardly and are of different lengths, a stiff member secured to one wing strap adjacent to the inner ends of the sections of such wing strap and secured to the other wing strap adjacent to the inner ends of the sections of such other wing strap, the outer ends of the forward sections being adapted to be secured to the shoulder strap, and the outer ends of the rear sections being adapted to be secured to the shoulder strap, the arrangement being such that the stiff member may be arranged beneath the shoulder strap and held by the wing straps in an inclined transverse position with respect to the shoulder strap.

2,285,369
AUTOMATIC BRAKE CONTROL
William J. Smith, Delaware City, Del.
Application May 28, 1940, Serial No. 337,703
16 Claims. (Cl. 192—3)



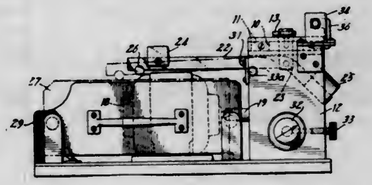
1. In combination with a brake control member, a manually operative member, a lever, said lever being adapted to be moved in one direction by the manually operative member, a force-applying unit adapted to move the lever to brake applied position, and releasing means between the lever and the brake control member.

2,285,370
METHOD OF FORMING HOLLOW ARTICLES
Carl G. Staelin, Toledo, Ohio, assignor to Owens-Illinois Glass Company, a corporation of Ohio
Application January 13, 1938, Serial No. 184,828
2 Claims. (Cl. 18—58)



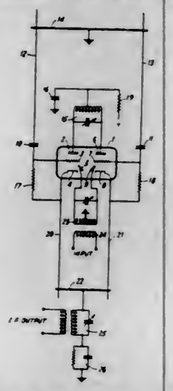
1. In the method of coating with a thermosetting material whose polymerization is accelerated by a lowering of the pH value, the step which comprises atomizing and spraying said material by means of an acidified gas.

2,285,371
PAPER SHEET TESTING DEVICE
Karl R. Stauss, Vestal, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application March 4, 1940, Serial No. 322,122
3 Claims. (Cl. 73—51)



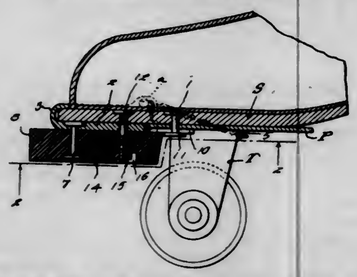
1. A device for testing the edges of cards comprising card supporting means consisting of a fixed supporting member and a clamping member for holding the inserted card in an upright position to expose an edge of the card to be tested, an operating arm including an element attached to one end thereof for engaging the said exposed edge of the test card, said arm including a predetermined weight to cause the said element thereof to bear upon the card edge with a certain fixed pressure, a slidable member for actuating the operating arm, said slidable member having a depending bifurcated member to which the other end of said operating arm is pivotally connected, and means for reciprocating the slidable member to cause the element of the operating arm to bear back and forth over the exposed edge of the test card for determining the resistance of the card edge, said means including an eccentric drive wheel and a cooperating arm having one end thereof pivotally connected to the said slidable member.

2,285,372
PUSH-PULL MIXING CIRCUIT FOR ULTRA-SHORT WAVES
Maximiliaan Julius Otto Strutt, Kornelis Swier Knol, and Aldert van der Ziel, Eindhoven, Netherlands
Application March 21, 1941, Serial No. 384,482
In the Netherlands May 30, 1940
7 Claims. (Cl. 250—20)



1. A push-pull mixing circuit for ultra-short waves, comprising a tube having two electrode systems each of which is constituted by a triode and a diode having a common cathode, circuits connecting the two triodes in push-pull for generating local oscillations, an impedance across which occur the local oscillations connected between the two cathodes, an impedance across which occur the received oscillations connected between the two diode anodes, and an oscillatory circuit tuned to the intermediate frequency resulting from the interaction of the local and received oscillations connected between the electrical centers of said two impedances.

2,285,373
ATTACHMENT FOR ROLLER SKATES
Eugene J. Wall, Mount Vernon, Ill.
Application February 13, 1941, Serial No. 378,795
5 Claims. (Cl. 280—11.20)



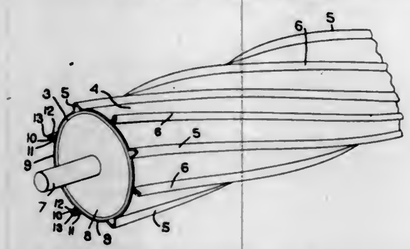
1. A starting and stopping attachment for a roller skate and a shoe to which the skate is attached, said attachment comprising a plate to underlie the toe portion of the shoe and having means for effecting its slidable coupling with the sole of the shoe, a block carried by and underlying the plate and extending beyond the forward marginal portions thereof, a shank carried by the sole of the shoe and extending through the plate and the block, and a holding member mounted on the shank and coacting with the block.

2,285,374
PUSH BUTTON FOR RADIO APPARATUS
Werner Dohsmann and Albrecht Leyn, Berlin, Germany, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application April 8, 1941, Serial No. 387,440
In Germany October 7, 1939
1 Claim. (Cl. 116—124.1)



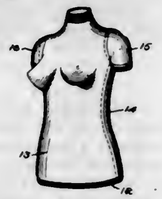
A push-button control system for radio apparatus comprising a panel and a plurality of aligned push-buttons which are reciprocable in the openings in the panel and each of which is adapted upon actuation from an inoperative to an operative position to control the adjustment of said apparatus, each push-button consisting of a solid transparent portion and a superimposed opaque portion, adjusting means for the apparatus carried by the opaque portion, the contacting surfaces of said portions being inclined and constituting a reflecting surface which is situated to the rear of the panel, a single source of light included in said radio apparatus and energized independently of the operation of the push-buttons, the reflecting surfaces of the several push-buttons being so orientated with respect to the light source that the light rays therefrom are directed towards said reflecting surfaces at substantially right angles thereto, and an apertured screen interposed in each of the paths between the light source and the several push-buttons, the arrangement being such that in the operative position of any of the push-buttons the reflecting surface is in registry with the screen aperture so that the light rays are reflected thereby and in the inoperative position said surface is out of registry with the screen aperture so that the surface is screened to prevent the light rays from being reflected.

2,285,375
RIBBED ROLL FOR SLASHING MACHINES AND OTHER TEXTILE MACHINES
Edwin H. Hansen, Braintree, Mass., assignor to Andrews and Goodrich, Inc., Dorchester, Mass., a corporation of Massachusetts
Application June 13, 1941, Serial No. 397,882
3 Claims. (Cl. 28—28)



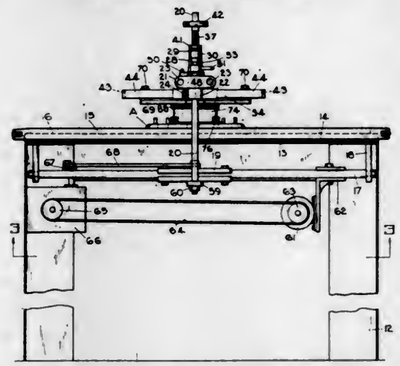
1. A ribbed roll for textile machines comprising a rigid body member, a sheet metal envelope enclosing the body member and formed of a plurality of sheet metal sections extending from one end to the other of the body member, the meeting edges of adjacent sections being connected together, and each having an outwardly directed rib extending from one end to the other thereof, and also spiraling partially about the body member.

2,285,376
PROCESS OF MAKING FORMS
Stanley P. Lovell, Newton Center, Mass., assignor to Beckwith Manufacturing Company, Dover, N. H., a corporation of New Hampshire
Application May 20, 1940, Serial No. 336,187
16 Claims. (Cl. 223—68)



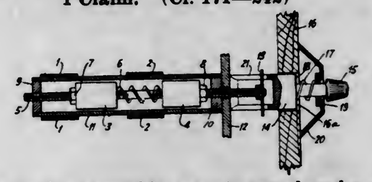
1. The process of making a dress form or the like from a human model provided with a protective garment, consisting in applying to said garment and molding to the contours of the torso of the model a plurality of torso-encasing panel sections of thermoplastic sheet-material in limp conformable condition and causing said sections to adhere to said garment, said sections of sheet-material comprising an elastic textile base impregnated with a thermoplastic composition being conformably plastic at a temperature of about 140° F., dividing the molded and hardened shell thus formed and removing said shell from the model, and then uniting the divided portions of said shell.

2,285,377
SURFACING MACHINE
John Clarence Inman, Windsor, Ontario, Canada, assignor to Lempco Products, Inc., Bedford, Ohio, a corporation of Ohio
Application June 27, 1939, Serial No. 281,425
20 Claims. (Cl. 51—151)



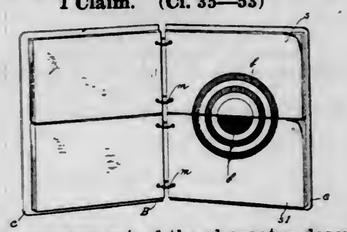
1. In a machine for truing plane surfaces on cylinder heads and blocks and on clutch pressure plates, the combination with an abrasive surface upon which the work to be ground rests, of a longitudinally reciprocable slide, means for reciprocating the slide, means attached to the slide for holding the work pivotally from a point offset from its longitudinal centre line, said work reciprocating longitudinally on the abrasive surface with the longitudinal reciprocation of the slide, and means for moving the work laterally on the abrasive surface during each cycle of longitudinal reciprocation thereof.

2,285,378
PRESS BUTTON TUNED RADIO RECEIVER
Willi Patzschke, Berlin-Zehlendorf, and Erwin König, Berlin-Wilmersdorf, Germany, assignors to General Electric Company, a corporation of New York
Application September 7, 1940, Serial No. 355,722
In Germany July 27, 1939
1 Claim. (Cl. 171—242)



In a tuning assembly, a main panel and a sub-panel arranged in spaced parallel relation and provided with coaxial openings, an axially adjustable shaft mounted substantially normal to said panel and having one end thereof protruding through the sub-panel opening, a plurality of cores slidably and coaxially mounted on said shaft, resilient means acting upon said cores and tending to force the cores apart in an axial direction, adjustable stops mounted on said shaft and cooperating with said cores for limiting the axial displacement of the cores relative to each other and the shaft, an up-turned element fixedly mounted on the shaft end which protrudes through the sub-panel, and an operating means for said shaft located between said two panels and having a portion mounted within the opening of the main panel and provided with a keyway into which said up-turned element is fitted, said operating means having a portion which protrudes an appreciable distance beyond the outer face of said main panel, an enclosure member mounted on the outer face of said main panel for covering the opening therein, said enclosure member being provided with an opening through which the protruding portion of the operating means extends, and resilient means interposed between the panel side of the member and the operating means for holding the latter means tightly against the sub-panel.

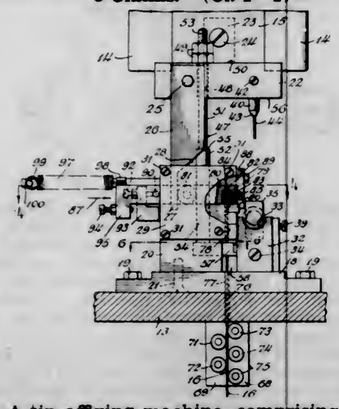
2,285,379
ASSEMBLED SHEETS FOR THE DISPLAY OF PRINTED SURFACES
Charles R. Sherman, Kirkwood, Mo., assignor to General Printing Ink Corporation, New York, N. Y., a corporation of Delaware
Application December 6, 1939, Serial No. 307,779
1 Claim. (Cl. 35—53)



In an arrangement of the character described, a plurality of sheets formed, respectively, from different grades of paper, said sheets being asso-

ciated with each other in such manner that a part at least of the upper surface of each sheet is exposed to view, said exposed sheet surfaces bearing printed representations formed from the same kind of ink.

2,285,380
FERRULE PINNING MACHINE
Frank De Bella, Newark, and Thomas F. De Bella, Elizabeth, N. J.
Application September 23, 1941, Serial No. 411,942
5 Claims. (Cl. 1—1)



2. A tip-affixing machine, comprising a reciprocable support carrying out an operative movement and a return movement, a driver, means detachably supporting said driver upon one part of said support, a shearing and feeding device reciprocable transversely to the directions of movement of said support, means actuated by said support to supply elongated securing means to said shearing and feeding device during said return movement, a slider attached to another part of said support and movable therewith and having a narrow end portion, a wider portion and a slanting cam surface situated between said portions, and means constituting a guide for said slider and a separate guide for said shearing and feeding device, said cam surface engaging said shearing and feeding device and actuating the same to shear off a piece of said securing means by pressing the securing means movable along with said shearing and feeding device against a part of said guide means, said cam surface further moving said shearing and feeding device to supply the sheared off piece into the path of said driver during said operative movement, whereby said driver inserts said sheared off piece into a work piece during said operative movement.

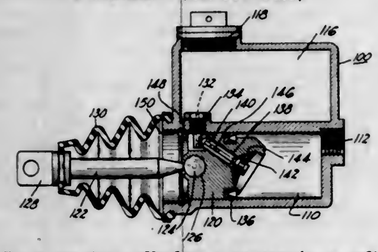
2,285,381
KITCHEN UTENSIL
James A. Murdock, Chicago, Ill.
Application July 1, 1940, Serial No. 343,405
7 Claims. (Cl. 146—171)

1. A vegetable cutter comprising a base, a horizontal platform above said base, a vertical guide wall connecting said platform and said base, a cutter projecting beyond said guide wall and above said base and having a vertical cutting



edge parallel to said guide wall and a horizontal cutting edge parallel to said platform, the horizontal cutting edge being raised to cut at the plane of the upper surface of the platform.

2,285,382
MASTER CYLINDER FOR BRAKES
Rudolph A. Goepfrich, South Bend, Ind., assignor to Bendix Products Corporation, South Bend, Ind., a corporation of Indiana
Original application March 10, 1938, Serial No. 195,021 now Patent No. 2,262,843, dated November 18, 1941. Divided and this application December 21, 1940, Serial No. 371,074
4 Claims. (Cl. 60—54.6)



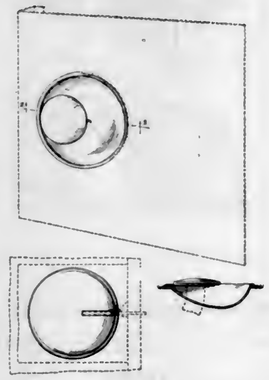
1. In a master cylinder, a reservoir, a cylinder having one end in communication with said reservoir and the other end provided with a braking fluid port, a piston reciprocable within said cylinder having a passage extending generally longitudinally therethrough, means for operating the piston including a member engageable with the rear end of the piston at substantially the center of said end, said passage being inclined with respect to the axis of the piston with one end opening through the forward end of the piston substantially on the axis of said piston and with the other end terminating at the rearward end of said piston at a point between the point of engagement of said operating member and the adjacent wall of said cylinder, a valve for controlling said passage, said valve having a stem extending within said passage and terminating adjacent the rearward end of said piston, and a stop upon said cylinder wall directly engaging the stem of said valve to unseat the latter when the piston is in its retracted position.

3. A fluid pressure producing device comprising a cylinder, a piston reciprocable in said cylinder and having an angular by-pass therethrough, a valve controlling the by-pass, and a fluid supplying member extending into the cylinder and arranged to trip the valve to open position when the piston is in its retracted position.

DESIGNS

JUNE 2, 1942

132,586
DESIGN FOR A COMBINED CABINET PANEL AND CATCH OPERATOR
Earl Borchers, Rockford, Ill., assignor to American Cabinet Hardware Corporation, Rockford, Ill., a corporation of Illinois
Application August 16, 1940, Serial No. 94,463
Term of patent 7 years



The ornamental design for a combined cabinet panel and catch operator, substantially as shown.

132,587
DESIGN FOR A TEXTILE FABRIC
Marcel Christen, New York, N. Y.
Application February 26, 1942, Serial No. 105,994
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown and described.

132,588
DESIGN FOR AN APPLIQUE EMBLEM OR SIMILAR ARTICLE
Walter P. Burn and Helen L. Jurkops, Washington, D. C., assignors to the United States of America, as represented by the United States Director of Civilian Defense
Application April 25, 1942, Serial No. 106,694
Term of patent 7 years



The ornamental design for an applique emblem or similar article, as shown and described.

132,589
DESIGN FOR AN APPLIQUE EMBLEM OR SIMILAR ARTICLE
Walter P. Burn and Helen L. Jurkops, Washington, D. C., assignors to the United States of America, as represented by the United States Director of Civilian Defense
Application April 25, 1942, Serial No. 106,697
Term of patent 7 years



The ornamental design for an applique emblem or similar article, as shown and described.

132,590
DESIGN FOR AN APPLIQUE EMBLEM OR SIMILAR ARTICLE
Walter P. Burn and Helen L. Jurkops, Washington, D. C., assignors to the United States of America, as represented by the United States Director of Civilian Defense
Application April 25, 1942, Serial No. 106,698
Term of patent 7 years



The ornamental design for an applique emblem or similar article, as shown and described.

132,591
DESIGN FOR A FINGER RING OR SIMILAR ARTICLE
Aaron Elkonin, Brooklyn, N. Y.
Application March 5, 1942, Serial No. 106,088
Term of patent 14 years



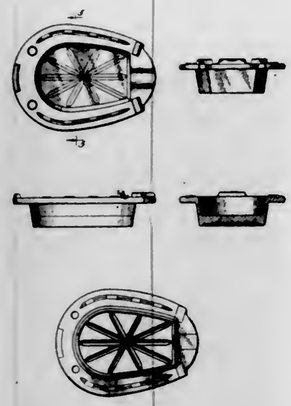
The ornamental design for a finger ring or similar article, substantially as shown.

132,592
DESIGN FOR A BADGE OR THE LIKE
Joseph H. Elliott, Charlottesville, Va.
Application February 25, 1942, Serial No. 105,984
Term of patent 3½ years



The ornamental design for a badge or the like, as shown.

132,593
DESIGN FOR AN ASHTRAY OR SIMILAR RECEPTACLE
Julius Hommer, Newark, N. J., assignor to Lapin Products, Inc., New York, N. Y., a corporation of New York
Application February 11, 1941, Serial No. 98,920
Term of patent 3½ years



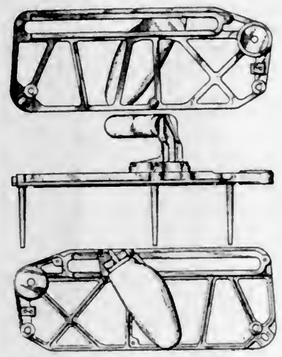
The ornamental design for an ash tray or similar receptacle, substantially as shown.

132,594
DESIGN FOR A BUILDING BLOCK
Willard A. Larson, Preston, Idaho
Application April 10, 1942, Serial No. 106,524
Term of patent 14 years



The ornamental design for a building block, as shown.

132,595
DESIGN FOR A STADIMETER CHASSIS
Douglas F. Linsley, Greenwich, Conn., assignor to Schick Incorporated, Stamford, Conn., a corporation of Delaware
Application March 2, 1942, Serial No. 106,053
Term of patent 14 years



The ornamental design for a stadimeter chassis, as shown.

132,596
DESIGN FOR A PLAQUE OR SIMILAR ARTICLE
Peter Mitchell, Woonsocket, R. I.
Application February 19, 1942, Serial No. 105,914
Term of patent 7 years



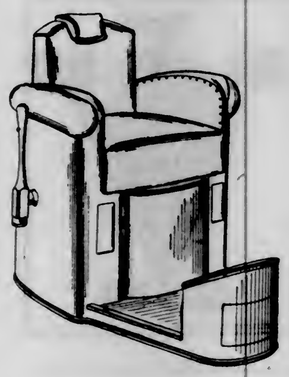
The ornamental design for a plaque or similar article, as shown.

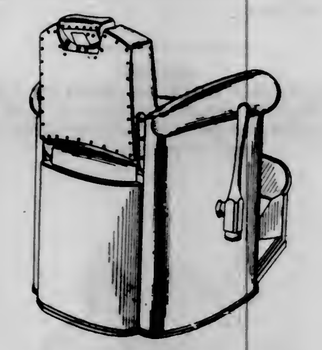
132,597
DESIGN FOR A DOLL OR SIMILAR ARTICLE
Ellen M. O'Neil, Los Angeles, Calif.
Application October 14, 1941, Serial No. 103,758
Term of patent 7 years

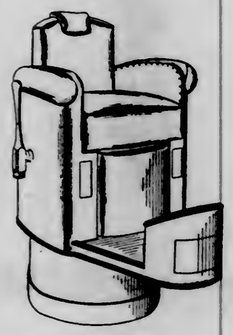


The ornamental design for a doll or similar article, as shown.

132,596
DESIGN FOR A BARBER CHAIR
Fred J. Piotraschke, Clayton, Mo.
Application January 12, 1942, Serial No. 105,147
Term of patent 7 years

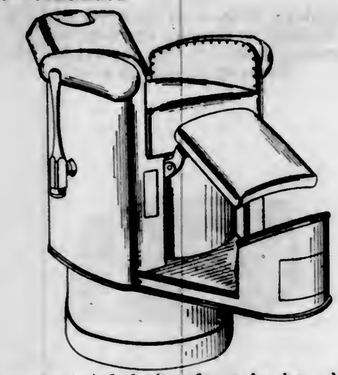






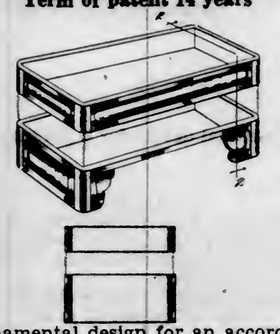
The ornamental design for a barber chair, as shown.

132,598—Continued



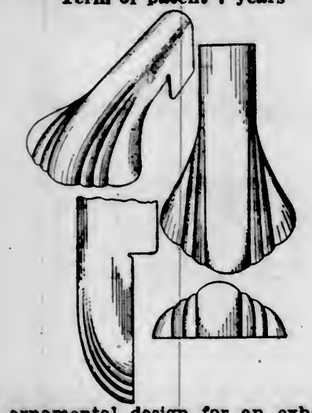
The ornamental design for a barber chair, as shown.

132,599
DESIGN FOR AN ACCORDION CASE
Walter Romanoff, Philadelphia, Pa.
Application March 14, 1942, Serial No. 106,200
Term of patent 14 years



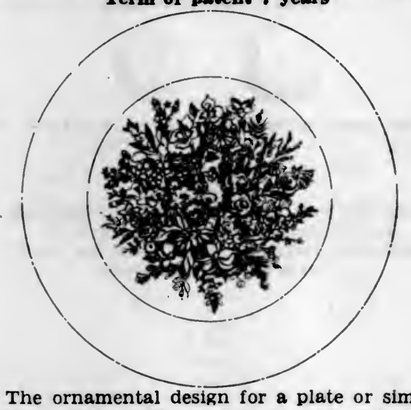
The ornamental design for an accordion case, as shown.

132,600
DESIGN FOR AN EXHAUST PIPE SHROUD
Linus E. Russell, Springfield, Ohio, assignor to Peters & Russell, Inc., Springfield, Ohio, a corporation of Ohio
Application September 12, 1941, Serial No. 103,327
Term of patent 7 years



The ornamental design for an exhaust pipe shroud, substantially as shown.

132,601
DESIGN FOR A PLATE OR SIMILAR ARTICLE
Viktor Schreckengost, Cleveland Heights, Ohio, assignor to The Limoges China Company, Sebring, Ohio, a corporation of Ohio
Application December 17, 1941, Serial No. 104,683
Term of patent 7 years



The ornamental design for a plate or similar article, substantially as shown and described.

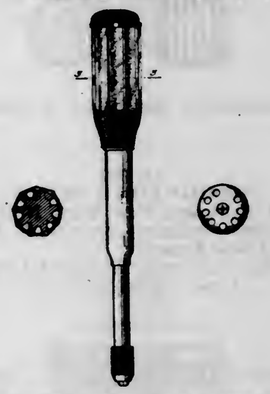
132,602
DESIGN FOR A DOLL
Dayton H. Stewart, Spokane, Wash.
Application October 8, 1941, Serial No. 103,687
Term of patent 14 years





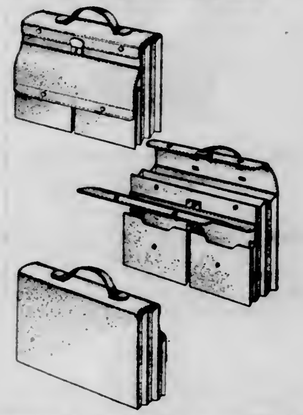
The ornamental design for a doll, substantially as shown.

132,603
DESIGN FOR A PRESS DRILL OR THE LIKE
George R. Wilcox, Greenfield, Mass., assignor to Millers Falls Company, Greenfield, Mass., a corporation of Massachusetts
Application December 11, 1940, Serial No. 97,254
Term of patent 14 years



The ornamental design for a press drill or the like, as shown and described.

132,604
DESIGN FOR A COMBINED TRAVELING AND CORRESPONDENCE CASE
Howard W. Russell, Collingswood, N. J.
Application November 12, 1941, Serial No. 104,121
Term of patent 14 years



The ornamental design for a combined traveling and correspondence case, as shown.

132,605
DESIGN FOR A DOORKNOB
Walter R. Schlage, Burlingame, Calif.
Application September 9, 1941, Serial No. 103,252
Term of patent 7 years



The ornamental design for a door knob, as shown.

132,606
DESIGN FOR A DOORKNOB
Walter R. Schlage, Burlingame, Calif.
Application September 9, 1941, Serial No. 103,254
Term of patent 7 years



The ornamental design for a doorknob, as shown.

132,607
DESIGN FOR A BRUSH
Harold M. Schwartz, New York, N. Y., assignor to Rubberset Company, Newark, N. J., a corporation of New Jersey
Application October 4, 1941, Serial No. 103,632
Term of patent 14 years



The ornamental design for a brush, as shown.

132,608
DESIGN FOR AN EYECUP OR SIMILAR ARTICLE
James S. Steelman, Millville, N. J.
Application August 6, 1941, Serial No. 102,703
Term of patent 3½ years





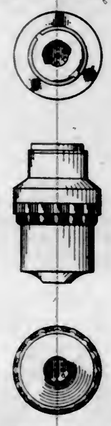
The ornamental design for an eyecup or similar article, substantially as shown.

132,609
DESIGN FOR A DOORKNOB
John A. Tornoe, San Francisco, Calif., assignor to Schlage Lock Company, San Francisco, Calif., a corporation of California
Application September 9, 1941, Serial No. 103,246
Term of patent 7 years



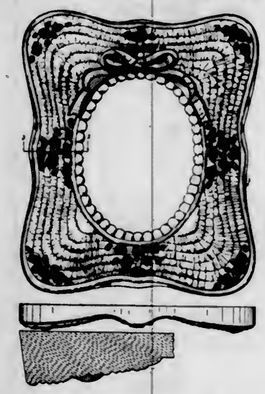
The ornamental design for a doorknob, as shown.

132,610
DESIGN FOR A WATER FAUCET FILTER
Isidore Zuckermann, New York, N. Y.
Application October 7, 1941, Serial No. 103,671
Term of patent 14 years



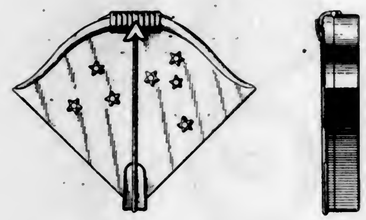
The ornamental design for a water faucet filter, as shown.

132,611
DESIGN FOR A PICTURE FRAME
Sara Colef, Benton Harbor, Mich.
Application March 14, 1942, Serial No. 106,198
Term of patent 3½ years



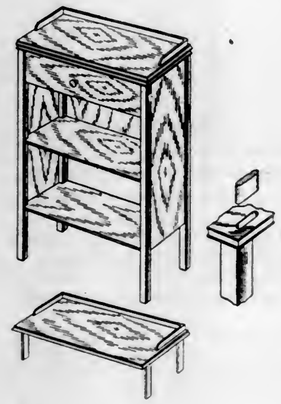
The ornamental design for a picture frame substantially as shown and described.

132,612
DESIGN FOR A COMPACT
Edmond Foret, New York, N. Y., assignor to Cartier, Inc., New York, N. Y., a corporation of New York
Application November 15, 1941, Serial No. 104,165
Term of patent 7 years



The ornamental design for a compact, as shown.

132,613
DESIGN FOR A COMBINED TABLE AND REMOVABLE TRAY
George A. Huth, Louisville, Ky., assignor to Adler Manufacturing Co., Incorporated, Louisville, Ky., a corporation of Kentucky
Application March 8, 1941, Serial No. 99,423
Term of patent 14 years



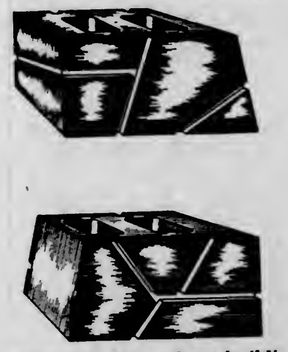
The ornamental design for a combined table and removable tray, substantially as shown and described.

132,614
DESIGN FOR A CLOTHESLINE REEL
Walfred Johnson, Racine, Wis.
Application January 27, 1942, Serial No. 105,461
Term of patent 14 years



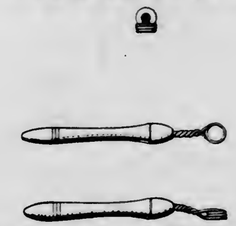
The ornamental design for a clothesline reel, as shown.

132,615
DESIGN FOR A BUILDING BLOCK
Willard A. Larson, Preston, Idaho
Application April 7, 1942, Serial No. 106,488
Term of patent 14 years



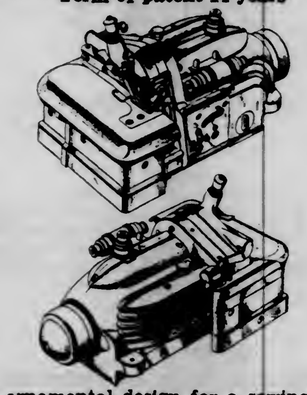
The ornamental design for a building block, as shown.

132,616
DESIGN FOR A CIGARETTE HOLDER
William L. Mermis, Fort Des Moines, Iowa
Application August 8, 1941, Serial No. 102,741
Term of patent 3½ years



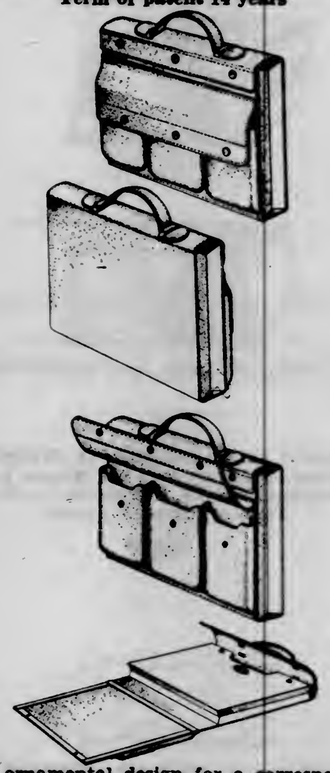
The ornamental design for a cigarette holder, substantially as shown.

132,617
DESIGN FOR A SEWING MACHINE
Malcolm S. Park, Mount Kisco, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application April 18, 1942, Serial No. 106,615
Term of patent 14 years



The ornamental design for a sewing machine, as shown.

132,618
DESIGN FOR A CORRESPONDENCE CASE
Howard W. Russell, Collingswood, N. J.
Application November 10, 1941, Serial No. 104,102
Term of patent 14 years



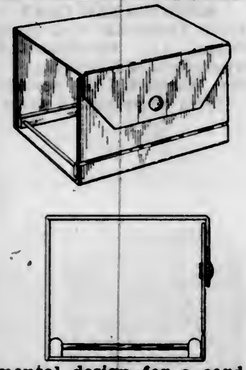
The ornamental design for a correspondence case, as shown.

132,619
DESIGN FOR A COMBINED BOTTLE AND DISPENSING STOPPER
Alfred A. Flaster, New York, N. Y.
Application February 19, 1942, Serial No. 105,891
Term of patent 3½ years



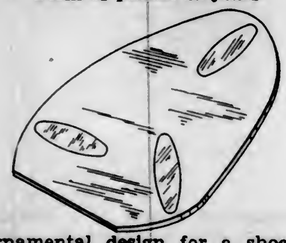
The ornamental design for a combined bottle and dispensing stopper, substantially as shown.

132,620
DESIGN FOR A CARD CONTAINER
Joseph M. Gross, Los Angeles, Calif., assignor to West Coast Sales Incorporated, Los Angeles, Calif., a corporation of California
Application July 2, 1941, Serial No. 101,855
Term of patent 3½ years



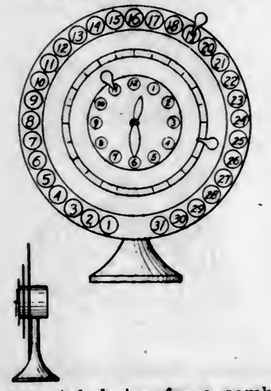
The ornamental design for a card container, substantially as shown and described.

132,621
DESIGN FOR A SHOE SOLE
Gavan S. C. Ivan, Bridgeton, N. J.
Application August 23, 1940, Serial No. 94,574
Term of patent 14 years



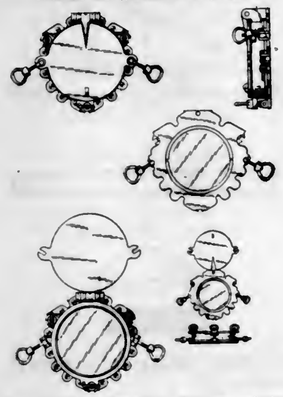
The ornamental design for a shoe sole, as shown and described.

132,622
DESIGN FOR A COMBINED CLOCK AND RADIO DIAL
Thomas C. Johnson, Los Angeles, Calif.
Application August 16, 1941, Serial No. 102,902
Term of patent 3½ years



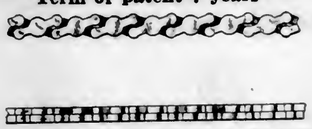
The ornamental design for a combined clock and radio dial, substantially as shown.

132,623
DESIGN FOR A PICTURE FRAME
Carl E. Knutson, Chicago, Ill.
Application December 24, 1941, Serial No. 104,833
Term of patent 7 years



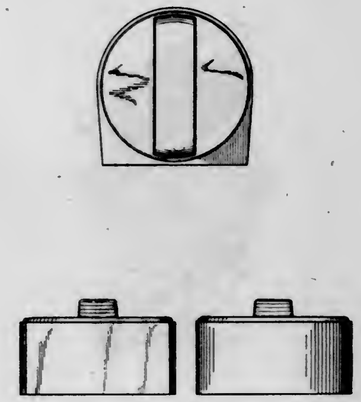
The ornamental design for a picture frame, substantially as shown.

132,624
DESIGN FOR A LINKED CHAIN OR SIMILAR ARTICLE
Edward Kupchick, New York, N. Y., assignor to Pearl Levine, Brooklyn, N. Y.
Application February 20, 1942, Serial No. 105,921
Term of patent 7 years



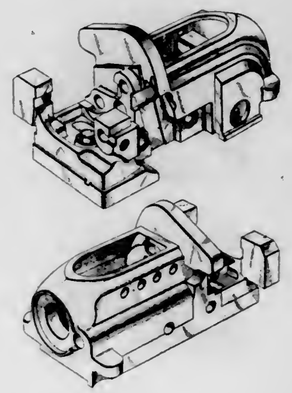
The ornamental design for a linked chain, or similar article, as shown.

132,625
DESIGN FOR A SHAVING BOWL OR SIMILAR ARTICLE
Frank McIntosh, New York, N. Y., assignor to Lentheric Incorporated, New York, N. Y., a corporation of New York
Application May 16, 1941, Serial No. 100,981
Term of patent 7 years



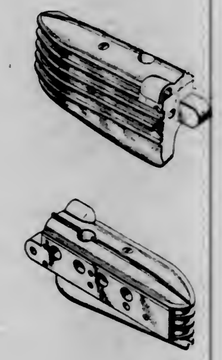
The ornamental design for a shaving bowl or similar article, substantially as shown and described.

132,626
DESIGN FOR A SEWING MACHINE FRAME
Malcolm S. Park, Mount Kisco, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application April 18, 1942, Serial No. 106,616
Term of patent 14 years



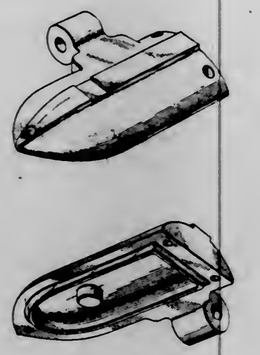
The ornamental design for a sewing machine frame, as shown.

132,627
DESIGN FOR A RADIATOR FOR A SEWING MACHINE
Malcolm S. Park, Mount Kisco, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application April 18, 1942, Serial No. 106,617
Term of patent 14 years



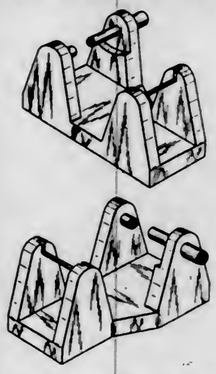
The ornamental design for a radiator for a sewing machine, as shown.

132,628
DESIGN FOR A COVER-PLATE FOR A SEWING MACHINE
Malcolm S. Park, Mount Kisco, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application April 18, 1942, Serial No. 106,618
Term of patent 14 years



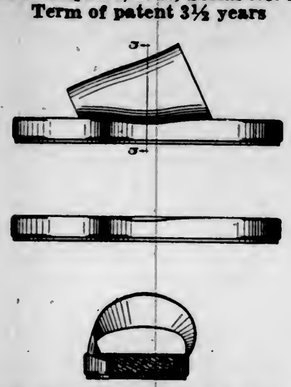
The ornamental design for a cover-plate for a sewing machine, as shown.

132,629
DESIGN FOR A NEGATIVE LOADER
Frank A. Mortimer, Seattle, Wash.
Application January 30, 1942, Serial No. 105,528
Term of patent 7 years



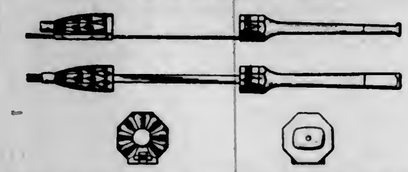
The ornamental design for a negative loader, substantially as shown.

132,630
DESIGN FOR A SANDAL
Arthur E. Pfeiffer, Worcester, Mass.
Application April 2, 1942, Serial No. 106,426
Term of patent 3½ years



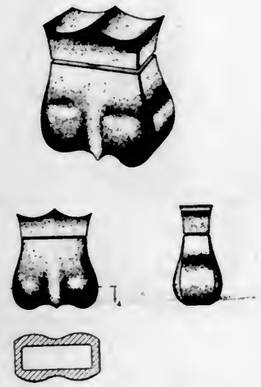
The ornamental design for a sandal, substantially as shown.

132,631
DESIGN FOR A COMBINATION CIGARETTE HOLDER AND ASH RECEPTACLE
Edward J. Quilty, Cleveland, Ohio
Application August 19, 1941, Serial No. 102,954
Term of patent 14 years



The ornamental design for a combination cigarette holder and ash receptacle, as shown.

132,632
DESIGN FOR A BOTTLE FOR PERFUME OR THE LIKE
Norman Shapiro, New York, N. Y.
Application July 1, 1941, Serial No. 101,843
Term of patent 7 years



The ornamental design for a bottle for perfume or the like, substantially as shown.

132,633
DESIGN FOR AN EXPOSURE IDENTIFYING TAB FOR PHOTOGRAPHIC, CUT FILM HOLDER
Byron L. Smith, East Rochester, N. Y., assignor to The Folmer Graflex Corporation, Rochester, N. Y., a corporation of Delaware
Application September 26, 1941, Serial No. 103,523
Term of patent 14 years



The ornamental design for an exposure identifying tab for photographic, cut film holder, substantially as shown and described.

132,634
DESIGN FOR A LAPEL PIN OR SIMILAR ARTICLE
Paul M. Allen, Richmond, Va., assignor of one-third to Paul W. Vaughan and one-third to James E. Terry, both of Richmond, Va.
Application January 20, 1942, Serial No. 105,333
Term of patent 3½ years



The ornamental design for a lapel pin or similar article, as shown.

132,635
DESIGN FOR A HAT
Vera Kelsey, New York, N. Y.
Application April 20, 1942, Serial No. 106,625
Term of patent 3½ years



The ornamental design for a hat, substantially as shown.

132,636
DESIGN FOR A BASEBALL MITT
Harry B. Latina, East St. Louis, Ill., assignor to Rawlings Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application September 8, 1941, Serial No. 103,225
Term of patent 14 years



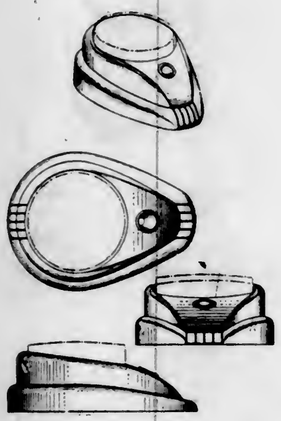
The ornamental design for a baseball mitt, as shown.

132,637
DESIGN FOR A BERET OR SIMILAR ARTICLE
Murray J. Marks, New York, N. Y.
Application September 8, 1941, Serial No. 103,221
Term of patent 3½ years



The ornamental design for a beret or similar article, substantially as shown.

132,638
DESIGN FOR A COMBINATION DESK UNIT
Jacques Martial, Great Neck, N. Y., assignor to The Esterbrook Steel Pen Manufacturing Co., Camden, N. J., a corporation of New Jersey
Application June 21, 1941, Serial No. 101,605
Term of patent 14 years



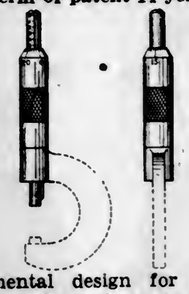
The ornamental design for a combination desk unit substantially as shown in the accompanying drawing.

132,639
DESIGN FOR A LAMP STAND
Maximilian C. Meyer, Brooklyn, N. Y.
Application January 10, 1941, Serial No. 97,962
Term of patent 3½ years



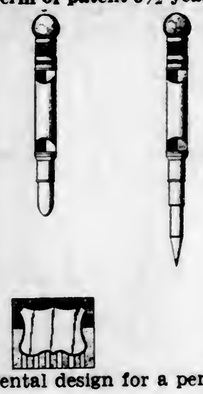
The ornamental design for a lamp stand, as shown and described.

132,640
DESIGN FOR A MICROMETER CALIPER
Clarence T. Rottler, Seattle, Wash.
Application September 15, 1941, Serial No. 103,356
Term of patent 14 years



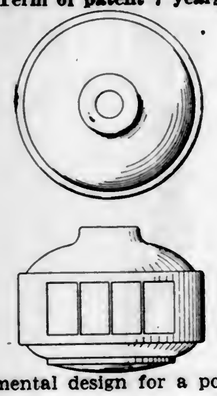
The ornamental design for a micrometer caliper, substantially as shown and described.

132,641
DESIGN FOR A PENCIL
James Jernigan Sanders, Nashville, Tenn.
Application February 18, 1942, Serial No. 105,857
Term of patent 3½ years



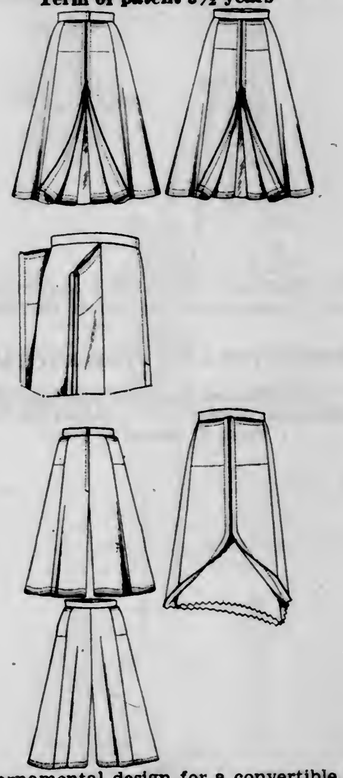
The ornamental design for a pencil, as shown.

132,642
DESIGN FOR A PORCH LAMP
Otto Schwacha, Bessemer, Ala.
Application September 2, 1941, Serial No. 103,137
Term of patent 7 years



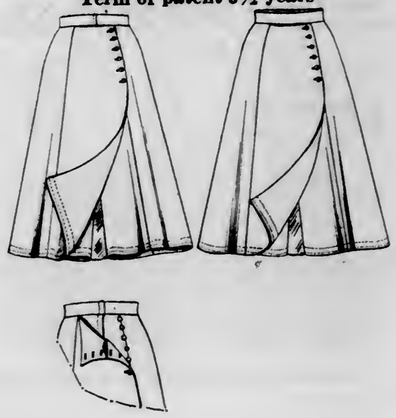
The ornamental design for a porch lamp, as shown.

132,643
DESIGN FOR A CONVERTIBLE TROUSER-SKIRT
Ethel Eaton Stricker, New York, N. Y.
Application April 7, 1942, Serial No. 106,482
Term of patent 3½ years

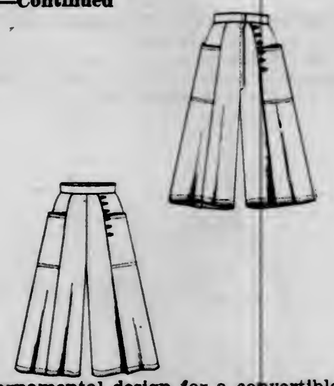


The ornamental design for a convertible trouser-skirt, substantially as shown and described.

132,644
DESIGN FOR A CONVERTIBLE TROUSER-SKIRT
Ethel Eaton Stricker, New York, N. Y.
Application April 7, 1942, Serial No. 106,484
Term of patent 3½ years

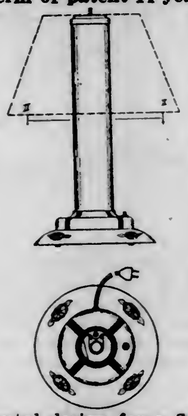


132,644—Continued



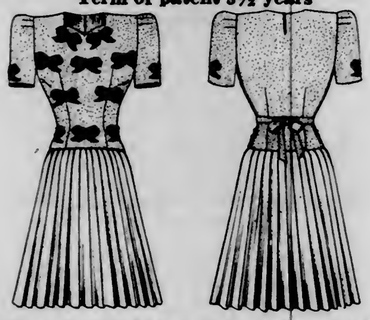
The ornamental design for a convertible trouser-skirt, substantially as shown and described.

132,645
DESIGN FOR A FLUORESCENT TABLE LAMP
Carl Edward Swanson, Chicago, Ill.
Application August 4, 1941, Serial No. No. 102,673
Term of patent 14 years



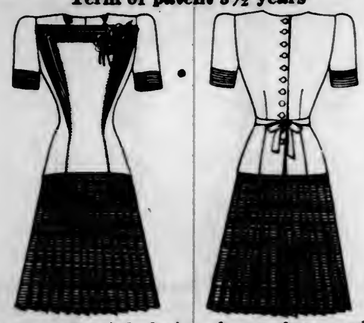
The ornamental design for a fluorescent table lamp, substantially as shown.

132,646
DESIGN FOR A DRESS
Anna Louise S. Carroll, New York, N. Y.
Application May 11, 1942, Serial No. 106,846
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,647
DESIGN FOR A DRESS
Anna Louise S. Carroll, New York, N. Y.
Application May 11, 1942, Serial No. 106,849
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,648
DESIGN FOR A DRESS
Morgan Fauth, New York, N. Y.
Application May 8, 1942, Serial No. 106,826
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,649
DESIGN FOR A DRESS
Harold H. Stahl, New York, N. Y.
Application May 8, 1942, Serial No. 106,834
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,650
DESIGN FOR A DRESS ENSEMBLE
Samuel Zahn, New York, N. Y.
Application May 8, 1942, Serial No. 106,835
Term of patent 3½ years



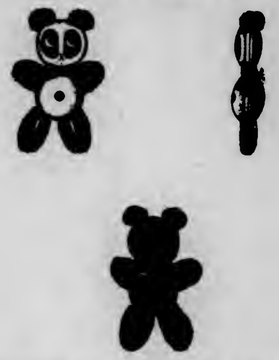
The ornamental design for a dress ensemble, substantially as shown.

132,651
DESIGN FOR A DRESS
Samuel Zahn, New York, N. Y.
Application May 8, 1942, Serial No. 106,836
Term of patent 3½ years



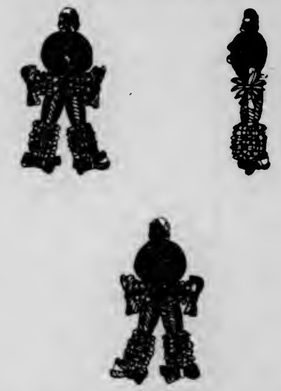
The ornamental design for a dress, substantially as shown.

132,652
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Eileen Dixon, Miami, Fla.
Application April 3, 1942, Serial No. 106,446
Term of patent 3½ years



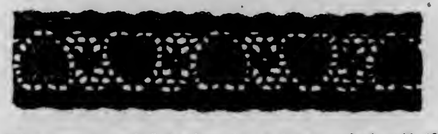
The ornamental design for a brooch or similar article, substantially as shown.

132,653
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Eileen Dixon, Miami, Fla.
Application April 3, 1942, Serial No. 106,448
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

132,654
DESIGN FOR A LACE
Frank P. Gehring, New York, N. Y.
Application April 27, 1942, Serial No. 106,727
Term of patent 3½ years



The ornamental design for a lace, substantially as shown.

132,655
DESIGN FOR A FLOWER HOLDER
William W. Goodman, Cincinnati, Ohio
Application May 15, 1941, Serial No. 100,963
Term of patent 3½ years



The ornamental design for a flower holder, substantially as shown.

132,656
DESIGN FOR A DRESS
Louis Katz, New York, N. Y.
Application May 8, 1942, Serial No. 106,832
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,657
DESIGN FOR A LACE
Isaac Zendman, Jr., New York, N. Y.
Application April 25, 1942, Serial No. 106,705
Term of patent 3½ years



The ornamental design for a lace, substantially as shown and described.

132,658
DESIGN FOR A DRESS
Anna Louise S. Carroll, New York, N. Y.
Application May 11, 1942, Serial No. 106,847
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,659
DESIGN FOR A DRESS
Anna Louise S. Carroll, New York, N. Y.
Application May 11, 1942, Serial No. 106,848
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,660
DESIGN FOR A DRESS
Minna Fields, New York, N. Y.
Application May 8, 1942, Serial No. 106,833
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

THE
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CONTENTS

	Page
ISSUE OF JUNE 9, 1942	239
DISCLAIMERS	239
ADJUDICATED PATENTS	239
AMENDMENTS	239
APPLICATIONS UNDER EXAMINATION	240
DECISIONS OF THE U. S. COURTS—	
Loftin, Assignee of Tubbs *v.* Smith	241
In re Edwards	243
In re Steiner	247
PATENT SUITS	248
CHANGES IN CLASSIFICATION	249
TRADE-MARKS PUBLISHED (114 APPLICATIONS)	251
TRADE-MARK REGISTRATIONS GRANTED	265
TRADE-MARK REGISTRATIONS RENEWED	269
REISSUES	273
PLANT PATENTS	274
PATENTS GRANTED	275
DESIGNS	466

June 9, 1942

Trade-marks	89	No. 395,717 to No. 395,805, inclusive.
T. M. Renewals	69	
Reissue	5	No. 22,108 to No. 22,112, inclusive.
Plant Patents	1	No. 527
Patents	799	No. 2,285,383 to No. 2,286,181, inclusive.
Designs	98	No. 132,661 to No. 124,758, inclusive.
Total	1,061	

Disclaimers

1,853,715.—*John W. Anderson*, Gary, Ind. WIPER. Patent dated April 12, 1932. Disclaimer filed May 13, 1942, by the inventor; the assignee, *Productive Inventions, Inc.*, assenting.

Hereby enters this disclaimer to claim 4 in said specification.

2,237,263.—*Richard Pasternack*, Brooklyn, and *Ellis V. Brown*, Jamaica, N. Y. PROCESS OF PREPARING ALDEHYDO ACYLATED RIBOSE, AND PRODUCT THEREOF. Patent dated April 1, 1941. Disclaimer filed May 12, 1942, by the inventors; the assignee, *Charles Pfizer & Company*, consenting.

Hereby enter this disclaimer to claims 2, 4, and 5 of said Letters Patent.

Adjudicated Patents

(D. C. Ill.) Freeman patent, No. 1,813,732, for furnace control, claims 1, 4, 6, and 9 *Held* valid. *Mercoid Corporation* v. *Minneapolis-Honeywell Regulator Co.*, 43 F. Supp. 878.

(D. C. Calif.) Towt patent, No. 1,848,398, for apparatus for preventing frost damage to vegetation, claims 1 and 2 *Held* invalid. *Towt* v. *National Frost Protection Co.*, 43 F. Supp. 883.

(D. C. Calif.) Towt patent, No. 1,903,615, for apparatus for preventing frost damage to vegetation, claim 1 *Held* invalid. *Id.*

(D. C. Mich.) Bickley patent, No. 1,921,862, for automatic sorter, claims 1, 2, 14–17, 20, and 21 *Held* not infringed. *Bickley* v. *Electric Sorting Mach. Co.*, 43 F. Supp. 865.

(D. C. Calif.) Smith patent, No. 1,997,889, for golf club and method of manufacturing same, claims 1, 2, 3, and 4 *Held* invalid. *Smith* v. *Thompson*, 43 F. Supp. 848.

(C. C. A. Ill.) Thomas patent, No. 2,007,988, for davenport bed, claims 1, 9, 10, 11, 12, 14, 15, and 17 *Held* not infringed. *Thomas* v. *Simmons Co.*, 126 F.(2d) 743.

(D. C. N. J.) Hopff patent, No. 2,029,618, for production of alcohols, claims 10, 11, and 19 *Held* invalid. *Winthrop Chemical Co.* v. *Burton T. Bush, Inc.*, 43 F. Supp. 883.

(C. C. A. Ill.) Freimann patent, No. 2,121,910, for carrying case for picture projecting apparatus, claims 5 and 6 *Held* invalid. *Magnavox Co.* v. *Talking Sales Pictures*, 126 F.(2d) 669.

(C. C. A. Ill.) Thomas patent, No. 2,197,735, for convertible seat, claims 21 and 22 *Held* invalid and not infringed. *Thomas* v. *Simmons Co.*, 126 F.(2d) 743.

Amendments

In order to insure the prompt delivery of amendments to the proper examining division, applicants are requested in their actions on applications to give the division number and the room number appearing on the last Office letter, as well as the date of such letter.

Condition of Applications Under Examination at Close of Business May 23, 1942

(Total number of applications awaiting action, excluding Trade-Mark Division, 46,767; Trade-Mark Division, 994. Oldest new case, Aug. 1, 1941; oldest amended, April 28, 1941)
(The dates given are 1941 except where † indicates 1942)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Sept. 20	Sept. 18	691
2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Nov. 14	Dec. 1	658
3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	†Jan. 8	†Jan. 2	613
4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating, Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	Dec. 11	Dec. 15	483
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	Dec. 9	Dec. 12	435
6. LEWERS, A. M., Carbon Chemistry (part)	Sept. 25	Oct. 4	1269
7. JARBOE, C. G., Optics; Photography	Sept. 25	Oct. 1	1116
8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	Oct. 31	Oct. 21	742
9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Nov. 7	Nov. 10	652
10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	---	---	---
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	†Jan. 30	†Feb. 4	343
12. SPINTMAN, SAMUEL (Act.), Machine Elements; Mechanical Starters; Stop Mechanisms	Dec. 15	Dec. 10	531
13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Sept. 12	Sept. 11	615
14. FREEHOF, H. B. (Act.), Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	Dec. 29	†Jan. 2	609
15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Oct. 21	Oct. 14	1135
16. SPENCER, C. J., Telegraphy; Telephony	Nov. 17	Nov. 17	611
17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Aug. 20	Aug. 25	1011
18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Nov. 12	Oct. 15	591
19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Oct. 31	Nov. 6	595
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	Dec. 20	Oct. 27	392
21. THOMPSON, T. J., Textiles; Cloth Finishing	†Jan. 21	Dec. 24	387
22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	Aug. 1	Aug. 1	1867
23. BUTTNER, W. J., Registers (part)	Sept. 17	Sept. 19	226
24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Nov. 27	Dec. 5	775
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	†Jan. 7	Dec. 12	457
26. YOUNG, R. R., Electricity, Generation; Motive Power	Dec. 24	Sept. 13	457
27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	Oct. 18	Aug. 19	500
28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	Oct. 13	Oct. 27	358
29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	Oct. 25	Oct. 20	679
30. McCANN, L. P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	†Feb. 14	†Feb. 11	400
31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	Nov. 29	Nov. 29	1423
32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Nov. 21	Nov. 28	885
33. KAUFFMAN, H. E. (Act.), Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads.	Nov. 17	Nov. 17	795
34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Surface Track; Track Sanders; Draft Appliances; Signals and Indicators.	†Jan. 14	†Jan. 26	410
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Portable Receptacles	Aug. 26	Aug. 16	1014
36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Nov. 24	Nov. 14	640
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	†Feb. 2	†Jan. 24	505
38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stoneworking; Wells; Plastic Compositions.	Nov. 4	Oct. 31	766
39. WHITNEY, F. I., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	†Jan. 16	†Jan. 5	476
40. DRUMMOND, E. J., Metallic, Wood, Paper, and Special Receptacles	Oct. 25	Oct. 25	1467
41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	Dec. 4	Dec. 4	523
42. CUTTING, H. O., Electric Signaling	Dec. 8	Dec. 8	511
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Sept. 24	Sept. 20	879
44. HARVEY, L. P., Refrigeration	Dec. 18	Nov. 8	339
45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Oct. 6	Oct. 23	724
46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Oct. 10	Oct. 10	770
47. KANOF, W. J., Clutches; Brakes	Sept. 12	Sept. 16	1064
48. ROEPKE, O. B., Electricity, General Applications; Igniters	Oct. 22	Oct. 21	856
49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Oct. 31	Nov. 8	679
50. LEVIN, S., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	Oct. 24	Oct. 24	1653
51. BACKUS, C. D., Radiant Energy (part)	†Feb. 20	†Feb. 23	408
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	†Jan. 8	†Jan. 8	332
53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Oct. 22	Apr. 28	557
54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	†Jan. 15	†Jan. 5	520
55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	†Jan. 16	†Jan. 20	252
56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Oct. 2	Oct. 1	1353
57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	Dec. 24	†Jan. 15	237
58. DOWELL, E. F., Abrading; Bottles and Jars	†Jan. 7	Dec. 16	411
59. SHEPPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	Aug. 30	Aug. 29	1464
60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Dec. 27	Dec. 27	297
61. YUNGKWAI, B., Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	Oct. 18	Oct. 23	798
62. PUGH, E. C., Games; Geometrical Instruments	Oct. 25	Aug. 25	583
63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	Aug. 12	Aug. 6	1336
64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats and Glue; Liquid Coating Compositions; Fuel.	Nov. 13	Nov. 10	1639
65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	Nov. 1	Dec. 2	417
Trade Marks: F. A. RICHMOND	†Apr. 4	†Apr. 16	606
Designs: H. H. KALUPY	†Apr. 7	†Apr. 21	994

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

LOFTIN, ASSIGNEE OF TUBBS

v.

SMITH

No. 4,584. Decided March 23, 1942

[126 F.(2d) 514]

1. INTERFERENCE—INVENTION BY THIRD PARTY.

"The courts have frequently said that in an interference proceeding * * * it avails nothing for one of the contestants to contend that the other party is not the real inventor, and that the invention was made by a third party."

2. SAME—DILIGENCE.

Held that T's lack of diligence in reducing to practice was not excused by his waiting for someone to devise a thermionic tube for employment in his modulation system so that T could construct and test that system.

3. APPEAL—SEPARATE AFFIRMING DECISIONS BELOW.

Where the Board of Appeals affirmed a decision by the Examiner of Interferences awarding priority to S, and then, after remand of the interference to the Examiner of Interferences by the Commissioner, affirmed a second decision of the Examiner of Interferences in favor of S; and the appeal taken by T to the Court of Customs and Patent Appeals purported to be an appeal from both decisions of the Board of Appeals *Held* that the appeal would be considered as taken from the second decision of the Board of Appeals, the remand having suspended the necessity of appeal from the first decision of the Board of Appeals.

4. INTERFERENCE—PRIORITY.

Record reviewed and *Held* that S, the junior party, has the right to make the counts and that, upon the evidence, priority properly was awarded to S.

APPEAL from Patent Office. Affirmed.

Mr. Edward H. Loftin pro se.

Mr. Stephen H. Philbin and *Mr. James G. Norton* for Smith.

BLAND, *J.*

This is an appeal in a United States Patent Office interference proceeding.

The interference was declared on claims 1 and 3 to 11, inclusive, of Tubbs' Patent 1,977,536, issued October 16, 1934, upon an application filed November 25, 1932, said claims in said Tubbs' patent having been copied in an application of Smith which was filed January 31, 1933. Loftin is Tubbs' assignee and appeared pro se in this court.

The Examiner of Interferences awarded priority of all the counts in issue, 1 to 10, inclusive, to the junior party Smith, and upon appeal to the Board of Appeals his decision was affirmed. From the decision of the Board, appellant has here appealed.

The invention involved may be fairly well understood from a reading of the counts. The Examiner of Interferences described it as follows:

> This interference relates to a modulation system including an electron discharge device having at least five electrodes i. e., a cathode, three grids and an anode. The inner grid has impressed upon it a negative bias and an alternating current, the intermediate grid has impressed upon it a positive potential and the outer grid has impressed upon it an alternating current and a negative bias of such magnitude that the grid can not swing positive even at the peak of the positive portion of the cycle of the impressed alternating current thus substantially no electrons are drawn from the electron stream and fidelity of modulation is thereby enhanced. The system is used particularly in superheterodyne radio receivers in which the alternating current signal is impressed on one grid and the alternating current from a local oscillator is impressed on another grid to produce an intermediate frequency in the plate circuit. * * *

Count 1 is illustrative of the subject matter of all the counts and follows:

> 1. In an electrical system the combination of a continuous electron discharge path comprising an electron emitting cathode and a positively energised anode, a plurality of negatively energised electrodes spaced between said cathode and anode and electroastatically isolated from each other by an electrode interposed therebetween, a plurality of sources of oscillations, and means for impressing different ones of said oscillations upon different ones of said negatively energised electrodes, the negative energizing of a one of said electrodes between said interposed electrode and said anode being so proportioned that substantially no current is thereby drawn from said electron discharge path during operation, whereby fidelity of operation is enhanced.

Both parties took testimony. The party Smith was an employee of the RCA Victor Company and worked under one Loughren. Smith was directed to carry out certain experiments in developing a detector oscillator after Smith had discovered that a pentode tube could be successfully operated with a negative potential on the outer grid. Hollands, an employee of the RCA Manufacturing Company, Radiotron Division, testified to the testing of the tubes prepared by Smith.

The Examiner of Interferences and the Board of Appeals gave Smith a date for reduction to practice of the involved invention "by December 29, 1931." Smith claims an earlier date, but in view of our conclusion that Tubbs is entitled to no earlier date, it is not necessary to consider the activities of Smith prior to December 29, 1931.

(1) The said reduction to practice date of Smith is challenged by Tubbs, chiefly in that he contends that Smith is not the real inventor and that others working with him are entitled to the credit. Both tribunals below correctly held that this contention was untenable. The courts have frequently said that in an interference proceeding of this character it avails nothing for one of the contestants to contend that the other party is not the real inventor, and that the invention was made by a third party. *Raymond et al.* v. *Wickersham*, 27 C. C. P. A. (Patents) 1079, 110 F.(2d) 863, 519 O. G. 3, and authorities therein cited.

The Examiner of Interferences rendered his first decision awarding priority to Smith on February 23, 1938. Appellant appealed to the Board, and the Board rendered its decision affirming that of the Examiner on August 4, 1939. Although all the facts are not found in the record, it appears that Tubbs, after the Board's first decision, successfully petitioned the Commissioner to direct that the case be remanded to the Examiner for the purpose of introducing additional evidence relevant to priority. The deposition of one Gerald J. Kelley was then introduced. The Examiner of Interferences held in a second decision, July 23,

1940, that the additional evidence did not change the situation from that which existed at the time the Board of Appeals affirmed his prior decision, and he again awarded priority of invention in the counts to Smith. Upon appeal to the Board, it, in its second decision, February 10, 1941, came to the conclusion that "there is nothing in the new evidence submitted by Tubbs to disturb this holding" (referring to its prior holding).

We have examined the Smith record with care and find that he is entitled to a date for reduction to practice of the invention involved at least as early as that found by the tribunals below, December 29, 1931. The evidence is discussed in the concurring decisions of the tribunals below, and it will serve no useful purpose to repeat the same facts and conclusions here.

We will proceed to consider the contentions and proof of Tubbs. Tubbs claims to have afforded proof that he introduced the invention into this country in 1930. He claims to have made the invention in Denmark in April 1928, and disclosed it by letter and accompanying diagrams (Exhibit 4) to his friend, Emil W. Dinga, in this country, and that said Exhibit 4 is evidence of such disclosure. As evidence of disclosure, Tubbs also relies on Exhibit 1, which is a page from his notebook.

We have examined these exhibits and agree with the tribunals below that they do not afford evidence of a disclosure of the invention of the counts to Dinga. There is some discrepancy between the dates of disclosure alleged by Tubbs and those testified to by Dinga. Tubbs disclosed the invention to Loftin in 1932, and Tubbs here argues that he made the same disclosure to Dinga on the earlier date. The record does not sustain this contention. However, assuming that Tubbs is entitled to the earlier date contended for, for conception and disclosure of the invention of the involved counts, we agree with the findings of the tribunals below that there is no diligence shown, which can be accepted here on the part of Tubbs, at the critical time during 1931 when Smith entered the field.

Tubbs alleged in his preliminary statement the following:

> That the invention was introduced into the United States by deponent at the time of his arrival therein at New York, State of New York, sometime during the first half of the month of August in the year 1930; that deponent made a drawing and accompanying brief description in a notebook of deponent's on or about April 11, 1932, in the city of New York, and State of New York, and, at the same time, disclosed the invention to one Emil W. Dinga in the city of New York, State of New York; *that at about the same time deponent began actively exercising reasonable diligence* in adapting and perfecting the invention of the counts of the interference, and arranging for the patenting of same; * * * (Italics ours).

Appellant, in substance, alleged in his preliminary statement that his diligence began on or about April 11, 1932. Both tribunals concurred in limiting the time when Tubbs' alleged diligence began to the time stated in his preliminary statement, the Board specifically stating that "such statements are therefore binding upon him." The Examiner of Interferences on this phase of the law cited *Funk v. Haines and Matteson*, 20 App. D. C. 285, 100 O. G. 1964.

(2) Tubbs, as we understand his contentions, does not urge that he has shown actual diligence in reducing his invention to practice but contends that he has shown an excuse for not being diligent at the critical period. After citing authorities, some of which related to poverty, accompanied by efforts to obtain means to prosecute a reduction to practice, he has the following to say:

> Appellant has been unable to find any case, and the extent of his search therefor leads him to believe that none exists, in which the inventor was, like Tubbs, completely blocked from taking any steps towards an actual reduction to practice during a period of over two years after conception because of the non-existence, and long continued non-existence, of means necessary to make up the heart of his invention, the practicability of which others disputed, namely a thermionic tube having at least two properly designed control grids electrostatically isolatable from each other by a properly designed, interposed therebetween screen grid, with each of said grids in communication with the outside with its own separate and electrically independent external connection; and appellant believes that because of this insurmountable barrier between Tubbs and an actual reduction to practice prior to June, 1932, and the above cited authorities with respect to other barriers less severe, the Examiner of Interferences and the Board of Appeals were equipped with an abundance of authority for awarding priority of the invention in issue to Tubbs * * *.

There is some dispute between the parties about whether or not a tube of the kind required could have been obtained during the critical period. Smith obtained one, and surely it could not properly be said that Tubbs' waiting for someone to devise this important element of his invention so that he could construct it and test or use it, will excuse lack of diligence required by the statute.

Tubbs in his 15th reason of appeal, questions the correctness of the Board in holding that the Smith application "supports copying the counts" in issue by Smith. The Board made no reference to this matter in its second decision, although in its first decision it had the following to say on the subject:

> Appellant also raises the question of the right of the party Smith to make the claims on appeal. This question was discussed by the Primary Examiner in his decision of June 9, 1936, in connection with the Tubbs motion to dissolve. Appellant points out that Smith's application refers to the control grids as being "preferably negative" but in other parts of the Smith specification he refers to the control grids operating preferably on the linear portion of the anode-current, grid-bias characteristic curve. There is also a quotation from page 13, discussing the operation of the species * * * referred to by the Examiner who held that, considering all of this record, Smith evidently had the thought of providing a negative bias sufficient to prevent grid current from flowing on the peak voltage of the positive half of the a. c. impressed on the grid, Tubbs, in discussing the Smith disclosure, does not refer to all the statements in the Smith specification as discussed by the Examiner. We are of the opinion the Examiner was correct in his decision.

Appellant's appeal here purports to be an appeal from both decisions of the Board. The Board did not incorporate its first decision into its second one and in the second decision the Board did not pass upon Smith's right to make the counts.

(3) It may be suggested that appellant's appeal from the first decision is untimely, and upon the instant record the question as to whether or not Smith's application supports the counts is not before us. We prefer, however, to consider the appeal as taken from the second decision, the remand having suspended the necessity of appeal from the first decision. We think appellant had the right before the board, and has the right here, to question the sufficiency of Smith's application to support the counts. We will consider the ruling on this question in the Board's first decision as being adhered to, although not definitely referred to in its second decision, and therefore think that appellant's 15th reason of appeal presents an issue for our decision.

On this phase of the case, we are in agreement with the above-quoted language of the Board of Appeals. It will be noticed that the Board refers to the decision of the Primary Examiner who discussed this question on "June 9, 1936." The decision of the Primary Examiner is not in the instant record and we do not have the advantage of this ruling. The Board has based its decision upon the decision of the Primary Examiner, and if Tubbs wished to have us give proper consideration to the decision of the Board, he should have incorporated the decision of the Primary Examiner in the record. But, be this as it may, we have examined the Smith specification in the particulars pointed out by the Board which evidently were extensively discussed by the Primary Examiner, and it seems to us that its position is sound, and that Smith has disclosed in his application all the elements of all the counts involved.

Appellant's 14th reason of appeal is as follows:

> 14. The Board of Appeals erred by not holding that the delay from October, 1931, to January 31, 1933, in filing the Smith application is not explained and, accordingly, is not excusable.

As the issue is presented here, if Smith reduced his invention to practice in October 1931, the said delay until January 31, 1933, in filing his application needs no explanation. There is no contention here that the Smith application related to an abandoned experiment nor is the rule akin to the doctrine of estoppel applicable in *Mason v. Repburn*, 13 App. D. C. 86, 84 O. G. 147, urged.

(4) From the foregoing it follows that the Board committed no error in affirming the decision of the Examiner of Interferences in awarding priority of the invention defined by the counts to the junior party Smith, and its decision so doing is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE EDWARDS

No. 4,525. Decided December 29, 1941

[124 F.(2d) 203]

1. PATENTABILITY—INVENTION.

Upon the finding that appellant's discovery of the need for increasing the density of pumpable cement slurries for cementing oil wells was not obvious to one skilled in the art *Held* that it becomes immaterial whether the selection of weighting agents for that purpose was or was not obvious in view of the prior art cited.

2. SAME—WEIGHTED CEMENT SLURRIES.

Certain claims *Held* patentable to appellant as properly defining his new and useful invention in weighted pumpable cement slurries, but one claim *Held* unpatentable to him as not so defining his invention.

APPEAL from Patent Office. Modified.

BLAND, *J.*, and LENROOT, *J.*, dissenting.

Mr. Thomas E. Scofield and *Mr. Henry L. Shenier* for Edwards.

Mr. W. W. Cochran (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

HATFIELD, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner rejecting all of the claims (Nos. 2, 3, 4, 6 to 12, inclusive, and 14 to 20, inclusive) in appellant's application for a patent for an alleged invention relating to improvements in weighted cements for use in cementing oil or gas wells and a method of cementing such wells with such cements.

At the time of the oral arguments in this court, counsel for appellant moved to dismiss the appeal as to all of the method claims—Nos. 16 to 20, inclusive. The motion will be granted.

Claims 2, 4, 6, 8, 9, and 10, of which claims 2, 9, and 10 are illustrative, call for a pumpable cement slurry for cementing oil wells having incorporated therein a weighting agent, as called for in claims 9 and 10, such weighting agent being specified in claims 2 and 4 as a finely divided metal and in claims 6 and 8 as a finely divided metallic compound. Claims 4 and 9 also contain the statement that the slurry has a "density in excess of that of the usable slurry made with cement and water alone," and claim 10 contains the limitation that the slurry has a density of from 18 to 30 pounds per gallon.

Claims 2, 9, and 10 read:

> 2. A pumpable cement slurry for cementing oil wells having incorporated therein a finely divided, suspended metal.
>
> 9. A pumpable cement slurry for cementing oil wells having incorporated therein a weighting agent, said slurry having a density in excess of that of a usable slurry made with cement and water alone.
>
> 10. A pumpable cement slurry for cementing oil wells having incorporated therein a weighting agent, said slurry having a density of from 18 to 30 pounds per gallon.

Claims 3 and 7 are similar to quoted claim 2, except that they call also for a wetting agent.

Claim 11 calls for a pumpable cement slurry for cementing oil wells, such slurry having a wetting agent and a "material" to increase its density.

Claim 12 calls for "A pumpable cement slurry for cementing oil wells having incorporated therein a wetting agent."

Claim 14 calls for a pumpable cement slurry having "incorporated therein *soluble compounds* in sufficient concentration to materially increase the density of the slurry." [Italics ours.]

Claim 15 calls for a pumpable cement slurry and specifies, as a weighting agent to increase the density of such cement slurry, materials, such as "powdered iron or powdered barytes and a soluble compound such as sodium chloride." That claim also contains the statement that the slurry has a "density

in excess of that of a usable slurry made with cement and water alone."

The references are: See, 78,544, June 2, 1868; Hall, 213,107, October 25, 1876; Flesheim, 1,012,832, December 26, 1911; Kleinlogel, 1,470,378, October 9, 1923; Takata, 1,492,866, May 6, 1924; Lindstrom, 1,633,790, June 28, 1927; Steinour, 1,852,595, April 5, 1932; Krauss, 2,019,980, November 5, 1935.

Appellant states in his application that it is old in the art to use cement slurry to seal off porous formations in gas and oil wells to prevent undesirable fluids flowing into them; that, in order for such cement slurry to set properly and become hardened, it must be uncontaminated, that is, not mixed with mud fluid which, as is well known in the art, serves in the drilling of oil and gas wells to lubricate the drill bit, to carry the drill cuttings out of the well, and as a "hydrostatic head" to prevent the well

"from flowing or blowing out";

that ordinarily the cement slurry used in gas and oil wells has a density of from 14 to 16 pounds per gallon, and the mud fluid used in such wells has a density of about 9.5 to 12 pounds per gallon; that the difference in density between the cement slurry and the mud fluid is apparently sufficient to prevent their intermixing; that in certain territories, however, where "heaving shale" is present

"and in deep wells [where high pressures are encountered], the cement does not seem to set properly and re-cementing is required";

that

"this is not only costly but dangerous since cementing"

in such wells

"is frequently a dangerous operation during which the well may be lost";

that in such wells

"heavier mud fluids [having a density of approximately 16.5 pounds per gallon] are used, thus reducing the difference in density between the mud and the cement slurry";

that if the cement slurry in a well is agitated or disturbed during its initial set, its strength will be materially decreased; that apparently one of the causes of the difficulties confronting the art was the intermixing of the cement slurry and the mud fluid due to

"the small differences in density,"

and that such intermixing could be prevented by increasing the density of the cement slurry so that it would be at least 5 pounds greater than that of the mud fluid; that with such difference in density, the slurry displaces the mud fluid (the latter floating on top of the slurry) at whatever level in the well it is desired to use the cement; and that the increased density of the cement slurry increases the "hydrostatic head" (or pressure) of the combined mud fluid and cement slurry, thereby preventing agitation or disturbance of the cement slurry during its initial set and affording a good cement job. It is further stated in appellant's application that, in order to accomplish his purpose, appellant discovered that he could increase the density of the cement slurry by the addition of

"finely divided powdered metals, * * * other finely divided, inert and insoluble materials of high density, and * * * soluble substances,"

and that such materials might be added to his cement slurry either singly or in combination. Some of the materials used to increase the density of appellant's cement slurry, and which are susceptible of fine subdivision so that they may be suspended in the slurry, are iron filings, barytes, various lead oxides, zinc oxide, lead concentrate, galena, zinc sulphide, copper sulphide, and other heavy substances. Appellant further states that under certain conditions, oxides of lead are not wetted by water and, therefore, do not increase the density of the cement slurry, and that, under such circumstances, a wetting agent, such as naphthenic acid, sulfonated oil, metallic soap, or the like may be used so that the finely divided lead oxide will be suspended in the cement slurry.

The patent to See relates to an

"Improved Composition for Covering Roofs, Pavements, and Walks, for Lining Cisterns, Damp Cellars, and Docks, for Plastering Outside Walls, for Making Bricks and Tiles, and for other similar uses."

and discloses a composition of hydraulic cement, iron ore, turnings, borings, or filings, sand, and salt. The patentee states that his composition should be thoroughly pulverized and water added thereto until the composition

"forms a mortar, of the proper consistency to apply with a trowel or otherwise, as desired."

The patent to Hall relates to improvements in the manufacture of artificial stone for paving, building, or other purposes. The patentee states that he mixes Portland cement with other materials including sand,

"iron or steel turnings, borings, or filings, either wrought or cast, or with oxide of iron, provided it be tolerably free from earthy matter";

that the iron, steel, or oxide of iron is disintegrated into small particles; that the mixture is slightly but thoroughly wetted, and is then placed in a mold and subjected to great pressure

"by hydraulic or other means."

The patent to Flesheim relates to a method of bonding concrete, and discloses the idea of coating an old concrete surface, to which a new concrete structure or mass is to be bonded, with a layer of mortar composed of cement, finely divided iron particles, and an agent for expediting the oxidation of the iron particles. The bonding method is successfully performed by applying the new concrete structure or mass before the mortar has set. The patentee states that, due to oxidation, the iron particles will expand and will

"compensate in a large measure [for] the shrinkage of the cement due to its drying and hardening, and so diminish its tendency to curl up and peel away from the surface to which it is applied."

The patent to Kleinlogel relates to a method of manufacturing building materials "from a mixture of Portland cement and metallic or other hard-grained substances," and particularly mentions the importance of a "definite proportion of the weights of the materials used in the mixture with relation to the size of the metallic parts admixed." The patentee states that his building materials possess a greater degree of hardness, are more durable, and

are more impervious to water than other cementitious materials.

The patent to Takata relates to an acid proof cement lining for "Digesters of Sulphite Pulp," and discloses a process which, the patentee states, consists in

"mixing white clay, lime or calcium carbonate, infusorial earth, asbestos and boric acid or borax thoroughly and the mixture is heated in a furnace, powdered and admixed with lead oxide and the product thus obtained is applied as lining in the state of mud by kneading with sodium silicate solution."

The patent to Lindstrom relates to a cement composition for the surfacing of concrete floors, stairs, pavements, concrete tanks, and other structures, the surfaces of which are apt to deteriorate. The patentee discloses a composition in which cement is mixed with "an abrasive such as carborundum or iron-free corundum," sand or other aggregate and water. The patentee refers to his composition as a "concrete surfacing" for floors and other surfaces which it is desired to make water-proof.

The patent to Steinour relates to a Portland cement composition and a method of making the same, and discloses a composition comprising Portland cement, borate of lime, and oxy-chloride of lime. The patentee states that his composition may be in the form of a slurry, and that it is particularly adapted to the "cementing off" of oil wells where temperatures are as high as 200° F.

The patent to Krauss relates to a glazing composition and a method of making the same, and discloses a composition comprising a metallic soap with a dispersing agent containing an ammonium salt of an organic acid, pulverized cement materials, "coloring materials" such as

"pigments, crystalline, amorphous, and wholly or partly colloidal silica and siliceous compounds, and inorganic substances practically insoluble in water, and not directly reacting with the cement components of the glaze."

The patentee states that his dispersing agent facilitates the surface wetting of the "particles" in his composition. The patentee's glazing composition is used as a coating for building materials such as bricks, tile, terra cotta, building blocks, and cement articles, and provides such articles with a glossy surface having the characteristics of hardness, durability, and resistance to moisture. The glazing composition apparently may be in the form of a mortar, or, as stated in claim 4 of the patent, by adding an excess of ammonia, it may be in the form of a slurry.

The Primary Examiner rejected all of the composition claims now before us for consideration on the patent to See. He also rejected them as being

"fully met by Kleinlogel and Flesheim each of whom combine cement and metallic particles (iron). Flesheim further uses a salt, salammoniac."

Claims 6, 7, and 8 were further rejected by the Examiner as being fully met by the patents to Hall, Takata, or Lindstrom, "who teach combining cement and finely divided metallic compound." Claims 11, 12, and 14 were further rejected on the patent to Krauss which discloses, according to the Examiner, "soluble materials * * * mixed with cement, the dispersing agent present facilitating the wetting action."

The patent to Steinour, according to the Primary Examiner's statement to the Board of Appeals, was cited against the method claims which are not before us for consideration. In view of the arguments presented here by counsel for the parties, however, we deem it advisable to quote that portion of the Examiner's statement wherein he referred to the Steinour patent:

Claims 16 to 20, drawn to the one-step method are rejected as being unpatentable over the *other references cited against the composition claims* in view of Steinour who discloses the use of a cement composition for an oil well cement.

* * * * * *

Steinour further shows that the oil well cement mixtures and other cement mixtures are from the same art and no question of analogy should arise. [Italics supplied.]

The Examiner further rejected appealed claim 10 on the ground that it was not supported by appellant's disclosure in that it calls for a cement slurry having "a density of from 18 to 30 pounds per gallon." That ground of rejection, however, was not concurred in by the Board of Appeals, the Board stating that as that claim was an original claim it could not be held to cover new matter, although the specific limitation for a cement slurry having a density of from 18 to 30 pounds per gallon was not set forth in appellant's specification.

In its decision affirming the decision of the Primary Examiner, the Board of Appeals said, inter alia:

* * * It is stated in the specification that in deep wells where high pressures are encountered or in drilling through heaving shale it is necessary to use heavier mud fluids. This reduces the difference in density between the mud and the ordinary cement slurry. Appellant provides a cement slurry under such circumstances of such high density that a sufficiently great difference in density between the cement slurry and the mud fluid in the well is present to enable the cement to be placed in the desired location uncontaminated by the mud fluid. For this purpose he has added to the slurry finely divided or powdered metals and among others suggests iron oxides, barytes and various lead oxides. Under certain circumstances the lead oxides are not wetted by water and a wetting agent is employed.

It seems to us that the statement of the problem suggests the solution, at least to increase the specific gravity of the cement slurry. While it is true that the prior art does not describe such a weighted slurry, yet it shows that various metallic substances, some of them finely divided, have been used in hydraulic cements for many purposes and in view of such a teaching it would not seem to be invention to weight the pumpable cement slurry in cementing oil wells as described by appellant. Clearly those claims which refer to the cement slurry itself are unpatentable as they distinguish primarily from the references by recitation of a slurry as against a cement mortar. Also the use of a wetting agent if necessary, is lacking in invention.

We believe, therefore, that the prior art is pertinent, at least for the purpose above indicated. *It may be that none of these references describes a cement slurry which could be used for cementing oil wells but we are not inclined to find patentability in claims which so distinguish over the prior art.* [Italics not quoted.]

Relative to appealed claim 4, the Board stated that it was sufficiently broad to call for a cement slurry having a greater density

"than that of the usual slurry made with cement and water which is clearly unpatentable, involving a matter of degree of density."

As hereinbefore noted, claim 4 calls for a pumpable cement slurry for "cementing off" oil wells having incorporated therein a finely divided metal, and also contains the statement that the slurry has a density in excess of a usable slurry made with cement and water alone. Accordingly, the statement by the Board that it calls merely for a pumpable cement slurry having a greater density than

that of the usable cement slurries made with cement and water alone is unwarranted.

It is apparent from what has been said that the prior art cited discloses, among other things, mortars or plastic masses, composed of cement, water, and finely divided metals, including iron filings, turnings, borings, and oxide of iron, for use in lining cisterns, etc., plastering outside walls, and bonding new concrete structures to old ones, and for the making of brick, tile, and other building materials.

Only two of the references cited—Steinour and Krauss—disclose a cementitious material in the form of a slurry. The patent to Krauss, as hereinbefore noted, relates to a glazing composition for glazing building materials. The composition may vary in consistency, according to the conditions under which it is to be applied. The inorganic and insoluble substances used in the patentee's composition are apparently used as coloring matter. The patent to Steinour discloses a cementitious composition in the form of a slurry, which, the patentee states, is particularly adapted to the "cementing off" of oil wells. However, the patentee's composition is composed of Portland cement, borate of lime, oxy-chloride of lime, and water. It does not contain inorganic substances for the purpose of increasing its density. The Steinour reference merely discloses what the applicant stated in his application was the prior art slurry used for the "cementing off" of oil and gas wells. It is evident, therefore, as held by the Board of Appeals, that none of the references discloses appellant's composition.

As hereinbefore noted, the Board stated in its decision that

"It seems to us that the statement of *the problem* suggests the solution, *at least to increase the specific gravity of the cement slurry.*" [Italics not quoted.]

As we understand that statement, the Board was of opinion that the problem confronting the art was to determine the cause for the failure of the prior art cement slurry to set properly and to "cement off" oil and gas wells where, as in deep wells, high pressures are encountered and "heaving shale" is present, and in which mud fluids heavier than those used in ordinary wells are employed, and that the "statement of the problem suggests the solution"; that is, "to increase the specific gravity of the cement slurry."

Stated differently, the Board was of opinion that, although appellant discovered that the reason the prior art cement slurries would not properly "cement off" such wells was because the differences in density between the heavier mud fluids and such cement slurries were insufficient and that the "specific gravity" of such cement slurries should be increased, such discovery would be obvious to one skilled in the art, and, therefore, would not involve invention.

The Board's expression of opinion is challenged by appellant's reasons of appeal in this court, and, although it is repeatedly stated, in substance, in the brief of counsel for appellant that appellant discovered the reason for the failures in the prior art cementing operations, such statements are not questioned here by the Solicitor for the Patent Office.

The Board also held that, in view of the references of record, it would be obvious to one skilled in the art that sufficient differences in density between the heavier mud fluids and the prior art cement slurries could be obtained by adding to the latter finely divided metallic substances, such as those referred to in appellant's application.

[1] It appears, therefore, that the Board divided appellant's concept into two parts; to wit, his conception that it was necessary, for the reasons hereinbefore stated, to increase the density of the prior art cement slurries so that a greater ratio of differences in density would exist between them and the heavier mud fluids, which the Board held did not involve invention; and his conception of increasing the density of pumpable cement slurries by including therein finely divided or powdered metals together with a "wetting agent" where certain weighting materials, such as oxide of lead, are employed, which the Board also held did not involve invention.

Upon what evidence the Board relied for its holding that the first part of appellant's concept was obvious to one skilled in the art and, therefore, did not involve invention does not appear either from the Board's decision or from any thing else of record, as there is nothing in any of the references cited which could be considered as even remotely suggesting such concept. When appellant provided his cement slurries with finely divided or powdered metals as weighting agents and thereby increased the density of such slurries so that the proper differences in density existed between them and the heavier mud fluids his invention was complete, and, as there is nothing of record to warrant a holding that the first part of his concept was not inventive, it becomes immaterial, for the purpose of this decision, whether the second part of his inventive concept, that is, providing his pumpable cement slurries with finely divided or powdered metals as weighting agents for the purpose of increasing their density, was or was not obvious in view of the prior art cited. See In re *Earle et al.*, 26 C. C. P. A. (Patents) 974, 102 F.(2d) 232, 505 O. G. 1025.

[2] That appellant's pumpable cement slurries are novel, useful, and of practical importance to the art, is not questioned. We are of opinion, therefore, that, on the record presented, such of the appealed claims as properly define appellant's pumpable cement slurries are patentable and should be allowed. Appealed claim 12, however, as hereinbefore noted, calls for "A pumpable cement slurry for cementing oil wells having incorporated therein a wetting agent." It does not call for a weighting agent of any kind, and, therefore, does not, in our opinion, define appellant's invention.

The appeal is dismissed as to claims 16 to 20, inclusive, and the decision of the Board of Appeals is modified, being affirmed as to claim 12, and reversed as to claims 2, 3, 4, 6 to 11, inclusive. 14. and 15.

Modified.

BLAND, *J.*, and LENROOT, *J.*, dissent as to claims 2, 3, 4, 6 to 11, inclusive, 14 and 15.

U. S. Court of Customs and Patent Appeals

IN RE STEINER

No. 4,552. Decided March 23, 1942

[126 F.(2d) 517]

1. PATENTABILITY—INVENTION.
   "To grant patent monopolies for the exercise of ordinary skill of highway engineers in adapting the structures shown by the prior art is not permissible under the law and would not advance the art of highway construction, but would tend to retard it."
2. SAME—SUPER HIGHWAY.
   Claims to a super highway *Held* unpatentable over the prior art.

APPEAL from Patent Office. Affirmed.

Mr. H. S. Amstutz for Steiner.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

LENROOT, *J.:*

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming a decision of the Primary Examiner rejecting all of the claims of appellant's application for a patent upon the ground of unpatentability over the cited prior art.

The rejected claims are numbered 1 to 6, inclusive, and 8 and 9. No claims were allowed. Claim 1 is illustrative of the subject matter involved and reads as follows:

1. In super highways, a plurality of automobile lanes constituting one group, a plurality of separate bus and truck lanes constituting a separate and parallel group, a continuous parking slow lane along both sides of each group, entrances from opposite directions to both groups which include a plurality of partially covered curving ramps of short radius leading upward from the same side of each group, a plurality of separate partially covered curving ramps of short radius leading upward from the other side of each group, the ramps being disposed to avoid all cross traffic and from a single underneath passageway from opposite directions be divided into four separate curving passages beneath the main groups, two of such passages leading onto the main groups in one direction and two of said passages leading on to the main group in an opposite direction.

The references cited are: Hale, 1,173,505, February 29, 1916; Woodward (British), 248,979, March 18, 1926; Skultin, 1,689,161, October 23, 1928; Paulet (French), 654,918, December 7, 1928; Musgrave et al., 1,771,269, July 22, 1930; Perriaux (French), 700,823, January 2, 1931; McDonald (German), 548,907, April 23, 1932; Carpenter, 1,917,634, July 11, 1933; Scientific American, May 28, 1910, page 433; The American City, March, 1928, pp. 91, 92; and Automobile Trade Journal, December 1, 1924, p. 331.

The quoted claim sufficiently describes appellant's alleged invention. The element particularly stressed by him as imparting patentability to the claims is the element that recites short turns under the highway on to ramps which lead up to the slow lanes of the highway.

The cited patents to Hale, Skultin, McDonald, Paulet and Perriaux disclose various arrangements in which highways cross at different elevations and ramps are provided by means of which cars can pass from either side of one highway to either side of the other highway.

The publications The American City and the Automobile Trade Journal show the division of highways into lanes for different kinds of traffic.

The publication Scientific American discloses the provision of conduits of various kinds beneath a road surface.

The patents to Musgrave et al. and Carpenter disclose conduits embedded in various materials for heating or cooling the surface thereof.

The patent to Woodward shows a surface crossing with underpasses that are on the same level at intersections.

With respect to the rejection of claims 1, 2, 3, 8 and 9, the Examiner stated that whether a roadway be used for trucks or passenger vehicles, or whether the individual lanes be designated as slow or fast lanes, is entirely a matter of police regulation which does not affect the structure of the roadway. After stating the foregoing the Examiner in his statement continued:

• • • Applicant is, therefore, essentially claiming a roadway having entrance and exit ramps from a cross road that runs underneath the superhighway. This type of crossing however is well known as shown by either Skulkin [Skultin], Hale, Perriaux, McDonald or Paulet. The clover leaf of the Hale patent is probably the best known. Whether the ramps be enclosed or open seems to be a matter of choice. By providing parallel roadways applicant is merely duplicating. However, it is common practice to separate various types of traffic into separate roadways as shown by either the Automobile Trade Journal citation or The American City citation. Ramp approaches from roadways on one level to roadways on an upper level are conventional in road building. The location and arrangement of the ramp seems to involve ordinary engineering skill and judgment and the use of a barrier between lanes is also old as shown by McDonald.

With respect to claims 4, 5, and 6 the Examiner stated:

Claim 4 is directed to a roadway having a plurality of utility corridors and passageways therebeneath. This feature is believed to be adequately anticipated by the Scientific American citation.

Claim 5 specifies roadways and a tubular underpass. McDonald and Woodward show underpasses to be old. Each can be called a tubular underpass substantially anticipating the claim.

Claim 6 specifies steam pipes embedded in the roadway and corridors therebeneath. It is old in the art to embed steam pipes in a surfacing plastic as shown by Carpenter or Musgrave. Carpenter in particular heats or refrigerates a floor. It would seem obvious to arrange corridors therebeneath.

The Board of Appeals in affirming the decision of the Examiner stated:

This application relates to so-called "Super Highways," and the feature primarily stressed by appellant is the use of short turns under the highway on to ramps which lead up to the slow lanes of the highway.

As far as we can discover, this specific detail is not disclosed in any of the references but it is believed clear that patents should not be granted on improvements of this nature unless they can be regarded as something more than obvious expedients to highway engineers. We do not believe that, where a road passes under an arterial highway and it is desirable to provide an entrance to the highway at that point, one skilled in the art would not readily think of running a ramp up to the highway with a short turn if space was not available to make the usual large outside curve approach. We also consider that any engineer, when exercising ordinary common sense, would cause the ramp to enter the highway on the slowest possible lane.

While it is true that the short radius turn, which would result from constructing what we regard as an obvious entrance to the highway, would compel drivers to slow up to a relatively safe speed, we do not consider that patentability can be predicated upon this fact. Any sharp turn in a highway will produce this result

and we are satisfied that it is not an unobvious one. We are of the view, therefore, that appellant's short-turn feature is not patentable over the art relied upon.

We are also of the opinion that the other details set forth in various claims do not define patentable advances and we consider that these matters have been sufficiently discussed by the Examiner.

The references cited clearly show all of the elements of appellant's structure except the provision for ramps under the highway with short turns therein, which ramps lead up to the slow lanes of the highway.

There being no invention in providing a multi-lane highway where the structure of each lane is the same, we are in agreement with the view of the Board of Appeals that if space was not available to make the usual large outside curve approach from the lower to the upper highway, any highway engineer would, in view of the structures shown by the references, without the exercise of the inventive faculty, readily think of running a ramp from one highway to the other with a short turn.

This being obvious, the fact that such short turns would slow up the speed of the vehicles passing over the ramps and would tend to prevent accidents cannot lend patentability to the claims. As stated by the Solicitor for the Patent Office in his brief,

"Naturally, with the main highway as wide as that shown by appellant, it will be necessary for some of the ramps or the passages leading to them to pass under the main highway. No new or unexpected result is derived from this arrangement."

With respect to the special limitations of claims 4, 5 and 6, the reasons given by the Examiner for their rejection, as hereinbefore quoted, are so clearly sound that they do not require discussion by us.

(1) That appellant's comprehensive plan for super highways is novel and useful may be conceded; but, to entitle him to a patent giving to him a monopoly for 17 years upon the structure claimed by him, invention—not merely the skill of the highway engineer—must be involved. To grant patent monopolies for the exercise of ordinary skill of highway engineers in adapting the structures shown by the prior art is not permissible under the law and would not advance the art of highway construction, but would tend to retard it.

(2) For the reasons herein stated, the decision appealed from is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

2,034,755, C. W. Fuller, Improvement in coating device, D. C., N. D. Okla. (Tulsa), Doc. 499, *Gardiner Coating Machine Co.* v. *Petroleum Coating Co.* Dismissed without prejudice, Feb. 25, 1942. Doc. 551, *R. M. Gardiner* v. *Petroleum Coating Co.* Consent decree granting injunction Feb. 25, 1942.

2,054,201, S. Kanner, Process of making felt hats, D. C. Mass., Doc. 1078, *Kanner Hat Machinery & Process Corp.* v. *Bristol Felt Body Co.* Stipulation of dismissal Mar. 26, 1942.

2,067,265, W. Ernst, Hydraulic double-acting metal-drawing press; 2,136,240, same, Triple-action drawing press; 2,167,941, same. Double-acting press, filed Feb. 17, 1942, D. C., N. D. Calif. (San Francisco), Doc. 22086–W, *The Hydraulic Press Mfg. Co.* v. *The Ralph N. Brodie Co. et al.*

2,080,399, C. P. Delbel, Metal container extrusion die, filed Mar. 16, 1942, D. C., W. D. Wis. (Madison), Doc. 330, C. P. Delbel, *General Dry Batteries, Inc.* v. *Mortes Mfg. Co.*

2,095,411, Everest & Jennings, Folding wheel chair, filed Mar. 16, 1942, D. C., N. D. Ill., E. Div., Doc. 4045, *H. A. Everest et al.* v. *Roosevelt Chair & Supply Co.*

2,103,643, F. M. Salomon, Device adapted to eliminate oscillations, filed Mar. 9, 1942, D. C., S. D. Ind. (Indianapolis), Doc. 509, *Wright Aeronautical Corp. et al.* v. *General Motors Corp.*

2,109,678, N. A. Nelson, Contact switch for ball rolling games, D. C., N. D. Ill., E. Div., Doc. 3165, *Ace Patents Corp.* v. *American Molded Products Co. et al.* By stipulation cause dismissed without prejudice Mar. 23, 1942.

2,111,272, P. M. Paulson, Abrasive material, filed Feb. 26, 1942, D. C., N. D. Ill., E. Div., Doc. 3971, *Minnesota Mining & Mfg. Co. et al.* v. *E. I. du Pont de Nemours & Co.*

Re. 18,841, J. Mayer, Hair waving method, D. C. Kans. (Wichita), Doc. 1915, *The Philad Co.* v. *G. Thomas.* Dismissed for non-appearance (notice Apr. 17, 1942).

Re. 19,866, A. Epstein, Knitted cap, D. C., S. D. N. Y., Doc. 17/277, *Epstein & Hammer, Inc.* v. *Famous Infants Knitwear Corp.* Consent judgment Apr. 2, 1942.

Re. 20,024, M. J. Kohler, Apparatus for treating nuts, filed Mar. 2, 1942, D. C., S. D. Calif., C. Div., Doc. 2098–H, *National Nut Co. of Calif.* v. *Reliable Vending & Nut Supply Co. et al.*

Des. 100,129, R. Z. Snyder, Radio cabinet, filed Mar. 27, 1942. D. C., E. D. Pa., Doc. 2462, *R. Z. Snyder* v. *Elliott Lewis Electrical Co., Inc.*

Des. 109,064, R. B. Karoff, Combination container for bath salts and bath cologne, D. C., S. D. N. Y., Doc. 5/435, *R. B. Karoff et al.* v. *Pickwick Cosmetic Corp.* Stipulation of dismissal (notice Mar. 19, 1942).

Des. 114,861, M. Massow, Dress, D. C., S. D. N. Y., Doc. 13/232, *Massow Frocks, Inc.* v. *Darcy Dress, Inc.* Judgment Apr. 9, 1942.

Des. 119,129, E. Kay, Dress ensemble, D. C., S. D. N. Y., Doc. 13/399, *Spector & Shanler, Inc.* v. *Roseweb Frocks, Inc.* Stipulation of discontinuance (notice Apr. 8, 1942).

Des. 120,173, N. Rubin, Dress, D. C., S. D. N. Y., Doc. 8/425, *Bobby Frocks Co.* v. *Skytop Frocks, Inc.* Stipulation of discontinuance (notice Mar. 2, 1942).

Des. 121,233, M. J. Kasper, Sweater, D. C., S. D. N. Y., Doc. 16/335, *Central Knitwear Mills, Inc.* v. *Kaye Knitting Mills, Inc.* Stipulation of discontinuance (notice Apr. 8, 1942).

Des. 121,448, S. Novak, Dress ensemble, D. C., S. D. N. Y., Doc. 10/343, *Flora Dress Co.* v. *Littmann's-54th Street Corp.* Stipulation of discontinuance (notice Mar. 19, 1942).

Des. 121,554, S. Novak, Dress ensemble, D. C., S. D. N. Y., Doc. 10/305, *Flora Dress Co.* v. *Pearl Dress Co., Inc.* Stipulation of discontinuance (notice Mar. 23, 1942).

Des. 121,951, L. J. Coblentz, Handbag, D. C., S. D. N. Y., Doc. 11/299, *Coblents Bag Co., Inc.*, v. *Arnold Constable & Co., Inc.* Judgment (notice Mar. 17, 1942).

Des. 122,283, C. Charles, Dress, D. C., S. D. N. Y., Doc. 11/10, *Sandler & Lane, Inc.*, v. *Barbara Joan, Jr., Inc.* Consent judgment (notice Apr. 1, 1942).

Des. 122,377, E. Silverman Dress, D. C., S. D. N. Y., Doc. 13/62, *Barnet Ginsburg, Nat Abelson, Inc.*, v. *Lady Youth, Inc. et al.* Discontinued as to Better Mode Frocks Co., Mar. 7, 1941. Consent judgment as to Krav-Chick Dress Co. and Silverstein & Shapiro Corp., Apr. 18, 1942. Stipulation of discontinuance as to Lady Youth, Inc., Apr. 21, 1942.

Des. 122,450, N. Shapiro, Dress, D. C., S. D. N. Y., Doc. 13/10, *N. Shapiro* v. *Lovejoy Formals, Inc. et al.* Stipulation of discontinuance (notice Apr. 14, 1942).

Des. 123,455, I. Jolles, Combined handbag and compact, D. C., S. D. N. Y., Doc. 11/443, *J. Jolles Studios, Inc.*, v. *Friedman & Shanbron, Inc.* Consent order of discontinuance (notice Apr. 18, 1942).

Des. 123,912, F. Mosell, Brooch, D. C., S. D. N. Y., Doc. 14/41, *Cohn & Rosenberger, Inc.*, v. *Mosell Costume Jewelry, Inc. et al.* Stipulation of dismissal (notice Mar. 27, 1942).

Des. 124,802, W. A. Landry, Textile fabric, D. C., S. D. N. Y., Doc. 13/247, *M. W. Haft & Bros., Inc.*, v. *Rothshire Coats, Inc.* Stipulation of discontinuance (notice Mar. 23, 1942).

Des. 125,024, E. Leventhal, Suit, D. C., S. D. N. Y., Doc. 13/237, *Leventhal & Hurwitz* v. *Abbey Coat Co., Inc. et al.* Stipulation of discontinuance (notice Apr. 15, 1942).

Des. 125,383, E. Breer, Dress, D. C., S. D. N. Y., Doc. 13/491, *Musman-Pincus, Inc.*, v. *Buntley Frocks, Inc.* Stipulation of discontinuance (notice Mar. 18, 1942).

Des. 125,671, N. Rosenstein, Dress, D. C., S. D. N. Y., Doc. 13/284, *Nettie Rosenstein Gowns, Inc.*, v. *Sandre.* Stipulation of discontinuance (notice Mar. 27, 1942).

Des. 125,692, H. Josephson, Drapery fabric, D. C., S. D. N. Y., Doc. 13/261, *H. Josephson* v. *Paroma Draperies, Inc.* Consent order of discontinuance (notice Mar. 16, 1942).

Des. 125,967, C. Lang, Dress, D. C., S. D. N. Y., Doc. 13/489, *Chas. Lang–Chas. Cooper, Inc.* v. *International Dress Co., Inc.* Stipulation of discontinuance (notice Mar. 26, 1942).

Des. 126,500, H. Troy, Dress, D. C., S. D. N. Y., Doc. 14/86, *Hannah Troy, Inc.*, v. *Mark Jacobson Dress, Inc.* Consent order of discontinuance (notice Mar. 4, 1942).

Des. 126,548, J. W. Wilson, Lamp table, D. C., N. D. Ill., E. Div., Doc. 3133, *The Zangerle & Peterson Co.* v. *Venice Furniture Novelty Mfg. Co.* Patent held invalid for lack of invention; bill dismissed Mar. 11, 1942.

Des. 127,557, I. H. Ross, Hat, D. C., S. D. N. Y., Doc. 16/79, *Fenway Accessories, Inc.* v. *Glenader Textile Co.* Final order (notice Apr. 1, 1942).

Des. 128,207, O. Hauptman, Coat, filed Mar. 23, 1942, D. C., S. D. N. Y., Doc. 17/442, *O. J. Hauptman Co., Inc.*, v. *L. Glinn.*

Des. 130,472, B. Cashin, Dress, filed Apr. 21, 1942, D. C., S. D. N. Y., Doc. 18/54, *Adler & Adler, Inc.* v. *Korby* Sportswear, Inc.

Des. 130,976, J. H. Matlin, Coat, filed Mar. 24, 1942, D. C., S. D. N. Y., Doc. 17/444, *Matlin Cloak & Suit Co., Inc.*, v. *Mandelbaum Coats.*

Des. 131,035, E. R. Popper, Knitted textile fabric, filed Apr. 17, 1942, D. C., S. D. N. Y., Doc. 18/45, *A. Abood* v. *Beldoch-Popper, Inc. et al.*

Des. 131,105, A. Katz, Brooch, filed Mar. 16, 1942, D. C., S. D. N. Y., Doc. 17/412, *Cohn & Rosenberger, Inc.*, v. *Brooks & Co.*

Des. 131,392, S. Kuznetz, Dress ensemble, filed Apr. 14, 1942, D. C., S. D. N. Y., Doc. 18/24, *Lipman Bros.* v. *Edwin Frocks.*

Des. 131,609, S. Elmo, Dress ensemble, D. C., S. D. N. Y., Doc. 17/403, *Friedman Dress Co., Inc.*, v. *Holsberg & Lasoff, Inc.* Consent judgment (notice Apr. 10, 1942).

Des. 132,065, S. Zahn, Dress, filed April 21, 1942, D. C., S. D. N. Y., Doc. 18/55, *Franklin Simon & Co., Inc. et al.* v. *Roseweb Frocks, Inc.*

Changes in Classification

Order No. 3,632, May 8, 1942, directs:

In *class 9, Boats and Buoys* (Division 61), subclass 8.3 under "Search classes" change the reference to class 102 to read as follows:

102—AMMUNITION AND EXPLOSIVE DEVICES, subclasses 35, 86, 60 and 87 for rockets and projectiles having illuminating features;

in subclass 14, cancel the "Search class" and substitute therefor the following:

Note.—See class 102, AMMUNITION AND EXPLOSIVE DEVICES, subclass 89 for line-carrying projectiles;

and in subclass 19, number the existing note (*1*) and add the following note:

(2) Note.—See class 221, DISPENSING, subclass 73.5 for receptacles for containing and releasing compressed gases; and class 102, AMMUNITION AND EXPLOSIVE DEVICES, subclass 39 for gas containing or generating cartridges.

In *class 23, Chemistry* (Division 59), subclass 281, note (4) under "Search classes" add the following:

102—AMMUNITION AND EXPLOSIVE DEVICES, subclasses 6, 39, 49, 65, 66 and 90 for gas generating ammunition and explosive devices.

In *class 29, Metal Working* (Division 13), subclass 1.2 add the following note:

Note.—For gun projectiles see class 102, AMMUNITION AND EXPLOSIVE DEVICES, particularly subclass 47 and indented subclasses;

and in subclass 1.3, add the following note:

Note.—For cartridge cases see class 102, AMMUNITION AND EXPLOSIVE DEVICES, subclass 43 and indented subclasses.

In *class 37, Excavating* (Division 4), subclass 2, add the following note:

(4) Note.—For explosive apparatus and processes for removing stumps see class 102, AMMUNITION AND EXPLOSIVE DEVICES, subclass 22 and indented subclasses;

and in subclass 18, add the following note:

Note.—For blasting processes and apparatus in general see class 102, AMMUNITION AND EXPLOSIVE DEVICES, subclass 22 and indented subclasses.

In *class 42, Firearms* (Division 22), after the main class definition add the following note:

(3) Note.—For gun projectiles *per se* see class 102, AMMUNITION AND EXPLOSIVE DEVICES, appropriate subclasses;

and in subclass 91 under "Search class" add the following:

102—AMMUNITION AND EXPLOSIVE DEVICES, subclass 92 for projectiles having means for lubricating the gun barrel.

In *class 43, Fishing, Trapping, and Vermin Destroying* (Division 2), subclass 6, in note (3) under "Search classes" in the reference to class 102 cancel "subclass 27" and substitute therefor *subclass 48*;

in subclass 124, note (3), in the reference to class 102, cancel "subclass 6" and substitute therefor *appropriate subclasses*;

in subclass 125, in the note add the following:

102—AMMUNITION AND EXPLOSIVE DEVICES, subclasses 6, 39, 65, 66 and 90 for gas generating ammunition and explosive devices;

and in subclass 127, in note (2) add the following:

class 102, AMMUNITION AND EXPLOSIVE DEVICES, subclasses 6, 39, 65, 66 and 90.

In *class 44, Fuel and Igniting Devices* (Division 64), under "Search classes" following the class definition, add the following:

102—AMMUNITION AND EXPLOSIVE DEVICES, subclasses 6, 66 and 90 for incendiary bombs and projectiles;

in subclass 84, renumber note (4) as (*5*) and add the following note:

(4) Note.—For incendiary bombs and projectiles see class 102, AMMUNITION AND EXPLOSIVE DEVICES, subclasses 6, 66 and 90;

and in subclass 89 number the existing note (*1*) and add the following note:

(2) Note.—For Pyrotechnic devices such as torches having igniters, see class 102, AMMUNITION AND EXPLOSIVE DEVICES, subclass 31 and indented subclasses.

In *class 46, Amusement Devices, Toys* (Division 57), note (7) following the main class definition, in the reference to class 102, cancel "22", "25" and "27" and substitute therefor *33, 37* and *48*, respectively;

in subclass 196, note (3) cancel "25" and "20" and substitute therefor *37* and *31*, respectively;

and in subclass 200 number the existing note (2) and add the following note:

(1) Note.—For toy torpedoes see class 102, AMMUNITION AND EXPLOSIVE DEVICES, subclass 37.

In *class 57, Textiles, Spinning, Twisting and Twining* (Division 21), subclass 8, add the following note:

Note.—For fuse-making in general, see class 86, AMMUNITION AND EXPLOSIVE CHARGE MAKING, subclass 1;

and in subclass 153, add the following note.

(6) Note.—For coated or impregnated fuses of strand type see class 102, AMMUNITION AND EXPLOSIVE DEVICES, subclass 27.

In *class 60, Power Plants* (Division 18), subclass 35.5 number the existing note (*1*) and add the following note:

(2) Note.—See class 102, AMMUNITION AND EXPLOSIVE DEVICES, subclasses 34 and 89 for rockets and subclass 49 for projectiles having rocket type propulsion.

In *class 67, Illuminating Burners* (Divison 30), in the ninth paragraph of the main class definition in the reference to class 102 change "subclass 20" to *subclass 31*;
in subclasses 10, 20 and 35, in note (2) under "Search classes" in the reference to class 102 cancel "subclasses 21, 24 and 39" and substitute therefor *subclasses 32, 35 and 36*;
in subclass 28, in the reference to class 102 in the definition cancel "20" and substitute therefor *31*;
in subclass 31, under "Search classes" in the reference to class 102, cancel "38" and substitute therefor *28*;
and in subclass 34, add the following note:

Note.—For parachute flares see class 102, AMMUNITION AND EXPLOSIVE DEVICES, subclass 35.

In *class 86, Ammunition and Explosive Charge Making* (Division 22), in the main class defintion under "Search classes" add the following:

102—AMMUNITION AND EXPLOSIVE DEVICES, for the products produced by the processes and apparatus of this class (86);

and in subclass 11 add the following note:

Note.—For shells see class 102, AMMUNITION AND EXPLOSIVE DEVICES, subclass 43 and indented subclasses.

In *class 89, Ordnance* (Division 22), after the main class definition under "Search class", add the following:

102—AMMUNITION AND EXPLOSIVE DEVICES, for gun projectiles *per se*;

in subclass 1.5 number the existing note (*1*) and add the following note:

(2) Note.—See class 102, AMMUNITION AND EXPLOSIVE DEVICES, subclass 2 and indented subclasses, for drop bombs *per se*; and subclass 35 for parachute flares;

and in subclass 36, add the following note:

(3) Note.—For mine-carrying balloon barrages see class 102, AMMUNITION AND EXPLOSIVE DEVICES, subclass 9.

In *class 93, Paper Manufactures* (Division 17), subclass 78, add the following note:

Note.—See class 57, TEXTILES, SPINNING, TWISTING AND TWINING, subclass 8, for machines for making fuses by strand twisting operations; and class 86, AMMUNITION AND EXPLOSIVE-CHARGE MAKING, subclass 1 for fuse making in general.

In *class 109, Safes, Bank Protection and Related Devices* (Division 20), subclass 29 renumber notes (6) to (9) as (7) to (*10*) and add the following note:

(6) Note.—For gas generating explosive devices see class 102, AMMUNITION AND EXPLOSIVE DEVICES, subclasses 6, 8, 89, 65, 66 and 90.

In *class 114, Ships* (Division 61), subclass 20, under "Search classes" cancel the reference to class 102 and substitute therefor the following:

102—AMMUNITION AND EXPLOSIVE DEVICES, subclass 10 and indented subclasses for submarine mines: subclass 34 for rockets; and subclass 49 for projectiles having rocket propulsion means;

in subclass 25, add the following note:

Note.—For submarine mines having depth regulation means responsive to hydrostatic pressure, see class 102, AMMUNITION AND EXPLOSIVE DEVICES, subclass 14;

in subclass 232 under "Search classes" in the reference to class 102, cancel "35" and substitute *55*.

In *class 124, Mechanical Guns and Projectors* (Division 62), note (3) following the main class definition cancel the references to class 102 and substitute therefor the following:

102—AMMUNITION AND EXPLOSIVE DEVICES, subclass 47 and indented subclasses for projectiles for weapons.

In *class 166, Wells* (Division 32), subclass 18, note (1) in the reference to class 102, cancel "subclass 11" and substitute therefor *subclasses 26 and 30*;
in subclass 16, note (3) under "Search classes" add the following:

102—AMMUNITION AND EXPLOSIVE DEVICES, subclass 4 for explosive devices for cleaning wells;

and in subclass 21 under "Search classes", in the reference to class 102, cancel "subclasses 4 and 5" and substitute therefor *subclasses 20 and 21*.

In *class 167, Medicines, Poisons and Cosmetics* (Division 63), subclass 47, add the following note:

(3) Note.—For gas evolving explosive devices see class 102, AMMUNITION AND EXPLOSIVE DEVICES, subclasses 6, 8, 39, 65, 66 and 90.

In *class 169, Fire-Extinguishers* (Division 46), in note (3) following the main class definition under "Search class" add the following:

102—AMMUNITION AND EXPLOSIVE DEVICES, particularly subclass 90, for projectiles carrying fire extinguishing gases.

131—TOBACCO, subclasses 235, 236, 237 and 256 for cigar and cigarette extinguishers.

In *class 227, Fire Escapes* (Division 4), subclass 20, note (4) in the reference to class 102, cancel "subclasses 27 and 34" and substitute therefor *subclasses 48 and 89*.

In *class 240, Illumination* (Division 30), subclass 1.2 renumber note (2) as (3) and add the following note:

(2) Note.—For parachute flares see class 102, AMMUNITION AND EXPLOSIVE DEVICES, subclass 35;

in subclass 1.3 note (2) under "Search class" add the following:

102—AMMUNITION AND EXPLOSIVE DEVICES, subclass 32 for flashlight cartridges;

and in subclass 10, add the following note:

Note.—For pyrotechnic devices see class 102, AMMUNITION AND EXPLOSIVE DEVICES, subclass 31 and indented subclasses.

In *class 244, Aeronautics* (Division 22), cancel note (6) following the main class definition and substitute therefor the following:

(6) Note.—See class 102, AMMUNITION AND EXPLOSIVE DEVICES, subclass 4 for parachute-carried drop bombs; subclass 9 for aerial mines; subclass 35, for parachute flares; and subclasses 63 and 89 for parachute-containing projectiles;

and in subclass 14 add the following note:

(2) Note.—For aerial mines see class 102, AMMUNITION AND EXPLOSIVE DEVICES, subclass 9.

In *class 262, Mining, Quarrying and Ice-Harvesting* (Division 4), note (4) following the main class definition under "Search classes" in the reference to class 102, cancel "5" and substitute *22*;
and in subclass 12, note (2) under "Search classes" in the reference to class 102, cancel "5" and substitute *22*.

In *class 273, Amusement Devices, Games* (Division 62), subclass 105.4, note (2) cancel "subclass 26" and substitute *subclass 47*.

In *class 102, Ammunition and Explosive Devices* (Division 22), abolish the existing subclass titles and definitions and establish in lieu thereof the following subclasses and definitions:

Note.—Copies of the list of subclass titles, and of the definitions, may be seen in the Search Room and in the Classification Division pending publication.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 9, 1942

[VOL. 539. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 416,224. EASTMAN KODAK COMPANY, Rochester, N. Y. Filed Feb. 17, 1939. Under the act of February 20, 1905, as amended June 10, 1938. Sec. 5B act 1905, as amended 1920.

EASTMAN CELLULOSE ACETATE

The words "Cellulose Acetate" are disclaimed apart from the mark.

FOR CELLULOSE ACETATE FOR INDUSTRIAL USE IN FIBROUS, FINELY DIVIDED, STRIP, OR SHEET FORM.

Claims use since Dec. 22, 1937.

Ser. No. 449,896. ARTHUR CRAVEN & CO. LIMITED, Lancashire, England. Filed Dec. 31, 1941.



No claim is made to the words "Old Country."

FOR WASH LEATHERS.

Claims use since July 15, 1940.

Ser. No. 452,553. RUSSELL CALLAN, Menard, Tex. Filed Apr. 24, 1942.



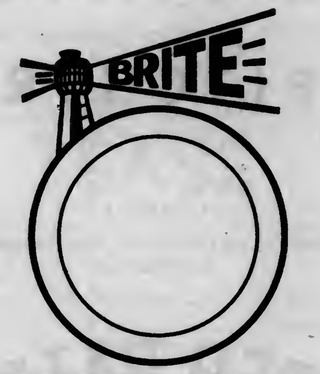
FOR RAW WOOL AND MOHAIR.

Claims use since 1914.

CLASS 2

RECEPTACLES

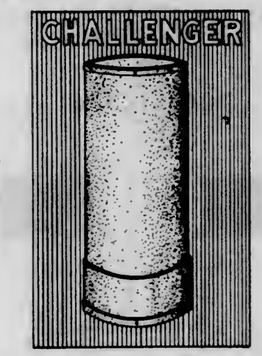
Ser. No. 452,444. BRITE CORRUGATED BOX COMPANY, Long Island City, N. Y. Filed Apr. 20, 1942.



FOR CORRUGATED PAPER BOXES.

Claims use since July 15, 1939.

Ser. No. 452,488. WALTON TRUNK CO., INC., New York, N. Y. Filed Apr. 21, 1942.



No claim is made to the representation of the goods apart from the mark. The drawing is lined for red.

FOR EMPTY CYLINDRICAL ROVING CONTAINERS MADE OF FIBER PAPER AND USED BY COTTON MILLS.

Claims use since October, 1930.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 447,064. GARAY & CO., INC., New York, N. Y. Filed Sept. 16, 1941.



FOR HANDBAGS AND BELT AND HANDBAG COMBINATIONS FOR WEAR BY LADIES.
Claims use since May 1, 1941.

Ser. No. 452,327. MARK CROSS COMPANY, New York, N. Y. Filed Apr. 14, 1942.

PITCHER

FOR HANDBAGS AND KNITTING BAGS CONSTRUCTED OF CLOTH MATERIALS.
Claims use since Mar. 29, 1942.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 450,394. LOUIS EDWARDS, Denver, Colo. Filed Jan. 22, 1942.

RED BALL

FOR GLASS CLEANER.
Claims use since Aug. 5, 1940.

Ser. No. 451,216. UNIVERSAL WHEEL & ABRASIVE CORP., Chicago, Ill. Filed Feb. 25, 1942.



Applicant disclaims the representation of the grinding wheel and the representation of the label per se apart from the mark.
FOR ABRASIVE GRINDING WHEELS AND SHARPENING STONES.
Claims use since November, 1940.

Ser. No. 451,440. THE B. F. GOODRICH COMPANY, New York, N. Y., and Akron, Ohio. Filed Mar. 6, 1942.



FOR CHEMICALLY TREATED POLISHING GAUZE AND CLOTHS, SPOT REMOVER, GLASS CLEANER, AUTOMOBILE TOP DRESSING, WHITE SIDEWALL TIRE CLEANER, AND BELT DRESSING.
Claims use since July, 1941.

Ser. No. 451,803. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed Mar. 21, 1942.

Kodak

FOR LIQUID LENS CLEANER AND POLISH FOR FERROTYPE PLATES.
Claims use since Oct. 21, 1932, on liquid lens cleaner; and since Apr. 28, 1941, on polish for ferrotype plates.

Ser. No. 452,133. PRINCE MATCHABELLI INC., New York, N. Y. Filed Apr. 3, 1942.

Potpourri

FOR SOAP.
Claims use since Jan. 9, 1941.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 448,457. PARFUM L'ORLE, INC., New York, N. Y. Filed Nov. 7, 1941.

BUCKSKIN



FOR TOILET WATERS, PERFUMES, SKIN LOTIONS, LIQUID DEODORANTS FOR PERSONAL USE.
Claims use since Aug. 6, 1941.

Ser. No. 449,975. CARL DIEDEL, New York, N. Y. Filed Jan. 3, 1942.

DELTEX

FOR COSMETIC FOR THE TEMPORARY COLORATION OF HAIR.
Claims use since Jan. 2, 1942.

Ser. No. 450,244. ALBERT P. PEPPER, New York, N. Y. Filed Jan. 15, 1942.

RinsiLK
"A MINUTE RINSE"

The words "A Minute Rinse" are disclaimed.
FOR CHEMICAL PRODUCTS FOR KEEPING HOSIERY AND LINGERIE IN GOOD CONDITION AND IMPROVING THE APPEARANCE OF TEXTILES SUCH AS SILK, RAYON, AND NYLON.
Claims use since Oct. 30, 1941.

Ser. No. 451,359. THE DILL COMPANY, Norristown, Pa. Filed Mar. 3, 1942.

DILL'S Royal

No claim is made to the word "Dill's" except as shown.
FOR COUGH SYRUPS.
Claims use since June 26, 1941.

Ser. No. 451,756. GEORGE L. SECORD, doing business as The George L. Secord Laboratories, Chicago, Ill. Filed Mar. 19, 1942.

SEGOTUSIN

FOR MEDICINE EMPLOYED AS A COUGH SEDATIVE AND EXPECTORANT.
Claims use since May 18, 1939.

Ser. No. 451,841. THE HOUSE OF HOLLYWOOD, Los Angeles, Calif. Filed Mar. 23, 1942.
The portrait is fanciful.



FOR BATH OIL, BATH POWDER, BEAUTY CREAM, BRILLIANTINE, COLOGNE, COMPLEXION MAKEUP, DEODORANT, DEPILATORY, FACE CREAM, FACE POWDER, FINGERNAIL POLISH, HAND CREAM, HAND LOTION, LIPSTICKS, MANICURE PREPARATIONS, PERFUME, ROUGE AND ROUGE COMPACTS, SKIN LOTION.
Claims use since Jan. 31, 1942.

Ser. No. 451,909. CHARLES H. FOSTER, New York, N. Y. Filed Mar. 26, 1942.

TEASE

FOR TOILET PREPARATIONS AND COSMETICS—NAMELY, PERFUME, FACE CREAM, FACE POWDER, ROUGE, AND LIPSTICK.
Claims use since Mar. 13, 1942.

Ser. No. 451,965. THE DAVISON CHEMICAL CORPORATION, Baltimore, Md. Filed Mar. 28, 1942.

PROTEK-SORB

FOR CONTACTING AGENT FOR TREATMENT OF GASES, LIQUIDS, OR SOLIDS, AND EMPLOYED PARTICULARLY AS A DESICCANT OR DEHUMIDIFIER AND IN CONTAINERS OR ENCLOSURES INCLUDING PACKAGES, OR FOR DRYING AND MAINTAINING DRY, CABLE SPLICES AND OTHER SOLID OBJECTS.
Claims use since Aug. 2, 1939.

Ser. No. 452,123. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J. Filed Apr. 3, 1942.

Lilac
IMPERIAL

No claim is made to the word "Lilac" apart from the mark.
FOR TOILET WATERS.
Claims use since Jan. 31, 1910.

Ser. No. 452,291. PARFUMS SCHIAPARELLI, INC., New York, N. Y. Filed Apr. 11, 1942.

SILENCE

FOR PERFUMES, TOILET WATERS, ROUGE, LIPSTICK, AND FACE CREAMS.
Claims use since Apr. 6, 1942.

Ser. No. 452,346. CHARLES OF THE RITZ, INC., New York, N. Y. Filed Apr. 15, 1942.

FLOWER SHOW

FOR PERFUME, TOILET WATER, FACE POWDER, TALCUM POWDER, LIPSTICK, ROUGE.
Claims use since Apr. 10, 1942.

Ser. No. 452,374. B. B. CHEMICAL CO., Boston, Mass. Filed Apr. 16, 1942.

CYCLONE

FOR LEATHER BLEACH.
Claims use since December, 1902.

Ser. No. 452,384. AMERICAN DIETAIDS COMPANY, INC., Yonkers, N. Y. Filed Apr. 17, 1942.

HI-PLEX

FOR VITAMIN B COMPLEX TABLETS.
Claims use since June 30, 1941.

Ser. No. 452,393. GERMSTROYD PRODUCTS LIMITED, London, England. Filed Apr. 17, 1942.

GERMSTROYD

FOR LIQUID CHEMICALS FOR SANITARY AND DISINFECTANT PURPOSES.
Claims use since 1915.

Ser. No. 452,411. AVON PRODUCTS, INC., New York, N. Y. Filed Apr. 18, 1942.

ATTENTION

FOR PERFUMES.
Claims use since Apr. 1, 1942.

Ser. No. 452,748. LUCIEN LELONG INC., Chicago, Ill. Filed May 2, 1942.

About Face

FOR CAKE MAKE-UP BASE AND FOUNDATION.
Claims use since Apr. 16, 1942.

CLASS 7

CORDAGE

Ser. No. 452,736. AMERICAN CHAIN & CABLE COMPANY, INC., Bridgeport, Conn. Filed May 2, 1942.

CRESCENT

FOR WIRE ROPE AND WIRE CABLE.
Claims use since Jan. 5, 1915.

CLASS 10

FERTILIZERS

Ser. No. 451,326. TAYLOR MILLING CORPORATION, Los Angeles, Calif. Filed Feb. 28, 1942.

Wonder gro

FOR PLANT FOOD.
Claims use since June, 1922.

Ser. No. 451,584. UNION POTASH & CHEMICAL COMPANY, Chicago, Ill. Filed Mar. 12, 1942.

UNION POTASH

The word "Potash" is disclaimed apart from the mark.
FOR POTASH USED PRIMARILY FOR FERTILIZER PURPOSES.
Claims use since Jan. 16, 1942.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 443,549. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio. Filed May 14, 1941. Under section 5b of the act of 1905 as amended in 1920.

Prang

FOR DRAWING INK.
Claims use since Jan. 29, 1941.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 416,392. SOCIETE DE CONSTRUCTION DE MATERIEL POUR BETON TRAITE (SOCIETE A RESPONSABILITE LIMITEE), Paris, France. Filed Feb. 24, 1939.

FREYSSI

FOR POSTS, HOLLOW COLUMNS, PILES, BEAMS AND FLOORING, RAILROAD SUPPORTS OR TIES, SLEEPERS FOR RAILROADS, CAISSONS FOR COMPRESSED AIR EXCAVATION WORKS, TUNNEL COVERINGS, FLOATING CAISSONS, DOCKS, WATERPROOF PACKINGS OR SEALING COMPOSITIONS FOR PIPES AND RESERVOIRS.
Claims use since Feb. 10, 1939.

Ser. No. 441,299. AMERICAN WATERPROOFING CORPORATION, Brooklyn, N. Y. Filed Mar. 7, 1941.

AMPRUF

FOR WATERPROOFING AND DAMPPROOFING MATERIALS USED IN LIQUID OR PLASTIC CONDITION TO BE ADDED TO OR INCLUDED WITH CONSTRUCTION MATERIALS SUCH AS CONCRETE, BRICKS, OR STONE TO WATERPROOF THE SAME.
Claims use since May 16, 1929.

Ser. No. 451,046. CERTAIN-TEED PRODUCTS CORPORATION, New York, N. Y. Filed Feb. 18, 1942.

CORPORAL

FOR SHEET MATERIAL OF FELT BASE SATURATED WITH A BITUMINOUS SATURANT AND USED AS CONSTRUCTION MATERIAL, INCLUDING ASPHALT ROOFING.
Claims use since June 15, 1910.

Ser. No. 451,350. SHEFFIELD STEEL CORPORATION, Kansas City, Mo. Filed Mar. 2, 1942.

Flex-Beam

FOR METALLIC GUARDRAILS.
Claims use since Dec. 1, 1934.

Ser. No. 451,514. SUMMERBELL ROOF STRUCTURES, Los Angeles, Calif. Filed Mar. 9, 1942.



FOR ROOF TRUSSES AND LAMINATED WOODEN ARCHES.
Claims use since May, 1932, on roof trusses; and since Feb. 1, 1942, on arches.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 444,811. THE W. S. TYLER COMPANY, Cleveland, Ohio. Filed June 24, 1941.

BOND-TITE

FOR WIRE CLOTH HAVING EDGING APPLIED THERETO.
Claims use since January, 1941.

Ser. No. 451,438. GEORGE K. GARRETT COMPANY, INC., Philadelphia, Pa. Filed Mar. 6, 1942.



The representation of the lock washers is disclaimed apart from the mark.
FOR LOCK WASHERS.
Claims use since December, 1933.

Ser. No. 451,550. INSTRUMENT SPECIALTIES COMPANY, INC., Little Falls, N. J. Filed Mar. 11, 1942.



The words "Processed," "Beryllium Copper Springs" together with the representation of a spring are disclaimed apart from the mark.
FOR SPRINGS MADE AND TESTED IN A PARTICULAR MANNER FOR USE ON VARIOUS PIECES OF APPARATUS, SUCH AS RADIO SETS, ESPECIALLY THOSE USED ON AIRCRAFT, FUEL GAUGES, SHOCK ABSORBERS, AIRCRAFT TACHOMETERS, MEASURING AND SCIENTIFIC INSTRUMENTS, MOTORS, RELAYS AND NUMEROUS OTHER STRUCTURES.
Claims use since Feb. 19, 1942.

CLASS 15

OILS AND GREASES

Ser. No. 441,633. THE PURE OIL COMPANY, Chicago, Ill. Filed Mar. 17, 1941.

INFERNO HEAT

No claim is made to the word "Heat" apart from the mark.
FOR FUEL OIL AND FURNACE OIL.
Claims use since Apr. 15, 1935.

Ser. No. 450,984. AMERICAN OIL COMPANY, Baltimore, Md. Filed Feb. 16, 1942.



The drawing is lined for red and black.
FOR GASOLINE, LUBRICATING OILS AND GREASES, AND DOOR EASE—NAMELY, A LUBRICANT FOR USE ON DOORS.
Claims use since Mar. 5, 1932.

Ser. No. 450,985. AMERICAN OIL COMPANY, Baltimore, Md. Filed Feb. 16, 1942.



FOR GASOLINE, LUBRICATING OILS AND GREASES, AND DOOR EASE—NAMELY, A LUBRICANT FOR USE ON DOORS.
Claims use since Mar. 5, 1932.

Ser. No. 451,395. SYLVANIA INDUSTRIAL CORPORATION, New York, N. Y. Filed Mar. 4, 1942.

SYLVANIA

FOR LUBRICANTS COMPRISING AN AQUEOUS COLLOIDAL SOLUTION FOR USE ON HEATED METAL SURFACES.
Claims use since Jan. 20, 1942.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 452,056. RED SPOT PAINT & VARNISH CO., INC., Evansville, Ind. Filed Mar. 31, 1942.

CHEKORODE

FOR READY MIXED PAINT, PARTICULARLY ADAPTED FOR A METAL PRIMER AND RUST INHIBITOR FOR STRUCTURAL STEEL AND OTHER METAL SURFACES.
Claims use since Mar. 4, 1942.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 449,184. M & N CIGAR MANUFACTURERS, INC., Cleveland, Ohio. Filed Dec. 4, 1941.



HAMPTON ARMS

The word "Hampton" is disclaimed apart from the mark.
FOR CIGARS.
Claims use since June, 1931.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 451,772. ALBERT W. MCDONALD, doing business as Elkhart Tool & Die Co., Elkhart, Ind. Filed Mar. 20, 1942.

Mac Victory - Steps

The word "Steps" is disclaimed apart from the mark.
FOR STEPS FOR TRAILERS.
Claims use since Feb. 10, 1942.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 450,880. THE NATIONAL VARNISHED PRODUCTS CORPORATION, Woodbridge, N. J. Filed Feb. 10, 1942.



FOR INSULATING TAPE, TUBING, AND SLEEVING FOR ELECTRICAL USE.
Claims use since Oct. 1, 1941.

Ser. No. 451,129. ALLIS-CHALMERS MANUFACTURING COMPANY, Milwaukee and West Allis, Wis. Filed Feb. 21, 1942.

CHLOREXTOL

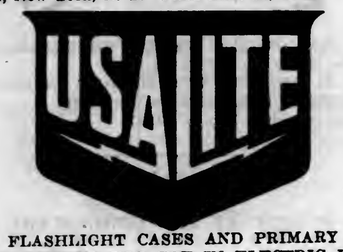
FOR SYNTHETIC ELECTRICAL INSULATING LIQUID.
Claims use since Dec. 15, 1939.

Ser. No. 451,148. SAMUEL SCHWARTZ, doing business as Sun Radio Co., New York, N. Y. Filed Feb. 21, 1942.

MERCURY

FOR ELECTRICAL INTERCOMMUNICATION SYSTEMS FOR PAGING, ANNOUNCING, AND TWO-WAY CONVERSATIONAL PURPOSES.
Claims use since March, 1940.

Ser. No. 451,617. UNITED STATES ELECTRIC MFG. CORP., New York, N. Y. Filed Mar. 13, 1942.



FOR FLASHLIGHT CASES AND PRIMARY ELECTRIC BATTERIES FOR USE IN ELECTRIC FLASHLIGHTS, LANTERNS, BEACON LIGHTS, AND BATTERY RADIO SETS.
Claims use since 1935.

Ser. No. 451,906. WESTON ELECTRICAL INSTRUMENT CORPORATION, Newark, N. J. Filed Mar. 25, 1942.

TWINTACTS

FOR ELECTRICAL RELAYS AND CONTACTS FOR USE IN ELECTRICAL RELAYS.
Claims use since Mar. 13, 1942.

Ser. No. 451,912. P. R. MALLORY & CO. INC., Indianapolis, Ind. Filed Mar. 26, 1942.

MALLOTRON

FOR ELECTRIC CONDENSERS.
Claims use since Feb. 20, 1940.

Ser. No. 452,032. WALCRAMATIC COMPANY, Los Angeles, Calif. Filed Mar. 30, 1942.

Walcramatic

FOR ELECTRIC WATER HEATERS.
Claims use since Dec. 16, 1941.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 452,433. PARKER BROTHERS INC., Portland, Maine, and Salem, Mass. Filed Apr. 18, 1942.

COMMANDOS

FOR BOARD GAME PLAYED WITH MOVABLE PIECES.
Claims use since Apr. 13, 1942.

Ser. No. 452,468. JOSEPH H. DROZD, Kansas City, Mo. Filed Apr. 21, 1942.

SLAP the JAP

FOR GAME BOARDS.
Claims use since Apr. 14, 1942.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 452,542. K. STENZEL & SONS, INC., New York, N. Y. Filed Apr. 23, 1942.

VITAMIN GIRL

FOR SPECTACLE FRAMES.
Claims use since Feb. 4, 1941.

Ser. No. 452,710. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed May 1, 1942.

EKO

FOR PHOTOGRAPHIC PAPER.
Claims use since Oct. 15, 1941.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 451,621. HERMAN COOPER, doing business as Timecraft Watch Co., New York, N. Y. Filed Mar. 14, 1942.

Timecraft

FOR WATCHES.
Claims use since Nov. 10, 1938.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 449,658. ALLIED STORES CORPORATION, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash., and as Dey Brothers & Company, Syracuse, N. Y. Filed Dec. 22, 1941.

King's Court

FOR STERLING SILVER FLATWARE, STERLING SILVER HOLLOW WARE, AND SILVER JEWELRY, NOT INCLUDING WATCHES.
Claims use since Dec. 16, 1941.

Ser. No. 451,390. PROVIDENCE STOCK COMPANY, Providence, R. I. Filed Mar. 4, 1942.

VICTOR

FOR WATCH BRACELETS, IDENTIFICATION

BRACELETS, WRIST WATCH STRAPS NOT INCLUDING WATCHES, PENDANTS, BROOCHES, KEY CHAINS, AND LOCKETS, ALL OF THE FOREGOING ARTICLES BEING MADE IN WHOLE OR IN PART OF PRECIOUS OR SEMI-PRECIOUS METAL.
Claims use since Mar. 1, 1926.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 451,319. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa. Filed Feb. 28, 1942.

NEOCETA

FOR BRUSHES—NAMELY, ARTISTS', BILL POSTERS', CALCIMINE, COUNTER-DUSTERS, ENAMEL, FITCH, FRESCO, FLOOR SWEEPING, FLOWING, FURNITURE, RUBBING, GLUE, LACQUER, PAINT, PASTE, PAINTER-DUSTERS, PAPER HANGERS', PLASTERERS', RADIATOR, ROOF, SASH, SHIP SEAMING, STAIN, STAIR-DUSTERS, STUCCO, STENCIL, STIPPLING, VARNISH, WHITEWASH AND WASHING.
Claims use since Jan. 12, 1942.

Ser. No. 451,320. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa. Filed Feb. 28, 1942.



FOR BRUSHES—NAMELY, ARTISTS' BILL POSTERS' CALCIMINE, COUNTER-DUSTERS, ENAMEL, FITCH, FRESCO, FLOOR SWEEPING, FLOWING, FURNITURE, RUBBING, GLUE, LACQUER, PAINT, PASTE, PAINTER-DUSTERS, PAPER HANGERS', PLASTERERS', RADIATOR, ROOF, SASH, SHIP SEAMING, STAIN, STAIR-DUSTERS, STUCCO, STENCIL, STIPPLING, VARNISH, WHITEWASH AND WASHING.
Claims use since Jan. 12, 1942.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 451,201. FISHER SCIENTIFIC COMPANY, Pittsburgh, Pa. Filed Feb. 25, 1942.

FILTRATOR

FOR VACUUM FILTRATION DEVICE FOR SEPARATING SOLIDS FROM LIQUIDS IN LABORATORY PROCEDURES.
Claims use since Feb. 23, 1942.

Ser. No. 452,408. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Apr. 17, 1942.

ROTO SEAL

The word "Seal" is disclaimed apart from the mark.
FOR ELECTRIC REFRIGERATOR UNITS.
Claims use since June, 1940.

Ser. No. 452,480. METAL TEXTILE CORPORATION, West Orange, N. J. Filed Apr. 21, 1942.



The words "Coolant Strainer" are disclaimed apart from the mark.
FOR FLUID STRAINING DEVICES INCLUDING A FORAMINOUS STRAINER BODY MASS.
Claims use since Feb. 27, 1942.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 448,760. HANDY ANDY SPECIALTY CO. INC., New York, N. Y. Filed Nov. 19, 1941.

LUSTEX

FOR HOUSEHOLD FURNISHINGS—NAMELY, MIRRORED SHELVES, MIRRORED BRACKETS, GLASS SHELVES, GLASS BRACKETS, AND PLASTIC RODS SEPARABLY CONNECTED FOR FORMING BUILT-UP SHELVES AND BRACKETS.
Claims use since Oct. 24, 1941.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 451,867. EDWARD F. CHANDLER, Brooklyn, N. Y. Filed Mar. 24, 1942.

AEROTHERM

FOR OIL, GAS, COAL, AND ELECTRIC FURNACES AND COMPLETE BUILDING HEATING UNITS WITH AND WITHOUT BUILT-IN SERVICE WATER HEATERS, AND DOMESTIC HOT WATER HEATERS.
Claims use since Apr. 1, 1939.

Ser. No. 451,987. NICHOLS ENGINEERING & RESEARCH CORPORATION, New York, N. Y. Filed Mar. 28, 1942.

MONOHEARTH

FOR INCINERATING FURNACES AND PARTS THEREOF.
Claims use since Jan. 1, 1941.

Ser. No. 452,425. HALL-NEAL FURNACE CO., Indianapolis, Ind. Filed Apr. 18, 1942.

VICTORY

FOR WARM AIR HOUSEHOLD FURNACE UNITS.
Claims use since Mar. 20, 1942.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 451,210. ABRAHAM I. PRANSKY, doing business as Pransky Sewing Machine Company, Boston, Mass. Filed Feb. 25, 1942.

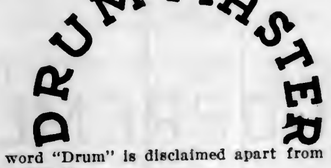
Hairtan

FOR ROUND LEATHER BELTING FOR SEWING MACHINES.
Claims use since Oct. 1, 1935.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 446,533. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Aug. 25, 1941.



The word "Drum" is disclaimed apart from the mark.
FOR DRUMS.
Claims use since Mar. 17, 1941.

Ser. No. 452,236. ARNOLD BRILHART, Great Neck, N. Y. Filed Apr. 9, 1942.

Tonalin

FOR MOUTHPIECES FOR WIND MUSICAL INSTRUMENTS.
Claims use since Aug. 14, 1940.

Ser. No. 452,237. ARNOLD BRILHART, Great Neck, N. Y. Filed Apr. 9, 1942.

Ebolin

FOR MOUTHPIECES FOR WIND MUSICAL INSTRUMENTS.
Claims use since Aug. 14, 1940.

Ser. No. 452,239. ARNOLD BRILHART, Great Neck, N. Y. Filed Apr. 9, 1942.



The mark consists of a spot of contrasting color and shaped substantially like a fingernail.
FOR MOUTHPIECES FOR WIND MUSICAL INSTRUMENTS.
Claims use since March, 1941.

CLASS 37

PAPER AND STATIONERY

Ser. No. 442,096. BEACH PRODUCTS, INC., Kalamazoo, Mich. Filed Mar. 31, 1941.



The words "Handi-Set Paper Service" are disclaimed apart from the mark.
FOR PAPER NAPKINS AND TABLE CLOTHS.
Claims use since Feb. 25, 1941.

Ser. No. 451,812. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed Mar. 21, 1942.

Kodak

FOR BLOTTING PAPER, WAX PAPER, PHOTOGRAVURE TISSUE.
Claims use since November, 1925, on blotting paper; since Nov. 17, 1941, on wax paper; and since Dec. 11, 1941, on photogravure tissue.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 448,387. JACK'S, Baltimore, Md. Filed Nov. 4, 1941. Under 10-year proviso.



JACK'S
Little Green Card

The portrait is that of Charles Bussey, member of applicant copartnership.
FOR RACING INFORMATION OR SELECTION CARDS, PUBLISHED DAILY.
Claims use since 1893.

Ser. No. 450,640. BOOKMARK PRESS, Camden, N. J. Filed Feb. 2, 1942.



Bookmark Press

No claim is made to the word "Press" apart from the mark.
FOR BOOKS.
Claims use since July 1, 1941.

Ser. No. 451,236. ESTHER MARGOLIS, doing business as The Monopoly State Review, New York, N. Y. Filed Feb. 26, 1942.

The Monopoly State Review

No claim is made to the term "Review" apart from the mark.
FOR PUBLICATION DEVOTED TO THE LIQUOR INDUSTRY AND PUBLISHED FROM TIME TO TIME.
Claims use since June, 1941.

Ser. No. 452,119. ATLAS POWDER COMPANY, Wilmington, Del. Filed Apr. 3, 1942.

The ATLAS Family

FOR MAGAZINE PUBLISHED FROM TIME TO TIME PRIMARILY FOR AND ON BEHALF OF ITS EMPLOYEES.
Claims use since May, 1939.

Ser. No. 452,120. ATLAS POWDER COMPANY, Wilmington, Del. Filed Apr. 3, 1942.

The ATLAS Family

FOR MAGAZINE PUBLISHED FROM TIME TO TIME PRIMARILY FOR AND ON BEHALF OF ITS EMPLOYEES.
Claims use since May, 1939.

Ser. No. 452,166. IRVIN AIRCRAFT SCHOOLS, San Diego, Calif. Filed Apr. 6, 1942.

IRVIN

FOR STUDENTS' HANDBOOK FOR AIRCRAFT MANUFACTURING.
Claims use since Dec. 1, 1941.

Ser. No. 452,274. THE PARAMOUNT LINE, INC., Providence, R. I. Filed Apr. 10, 1942.

Pakette

FOR GREETING CARDS.
Claims use since Mar. 11, 1942.

CLASS 39

CLOTHING

Ser. No. 445,026. USA ESSPI GLOVE CORPORATION, New York, N. Y. Filed July 2, 1941.

Esspi

No claim is made to the picture of the glove except as shown.
FOR GLOVES MADE OF LEATHER, SILK, COTTON, AND WOOL, AND OF COMBINATIONS OF THESE MATERIALS.
Claims use since May, 1940.

Ser. No. 446,288. COOPER'S, INCORPORATED, Kenosha, Wis. Filed Aug. 16, 1941.

COOPREME

FOR MEN'S AND BOYS' UNDERWEAR.
Claims use since May 25, 1941.

Ser. No. 447,926. M. WILE & COMPANY, INC., Buffalo, N. Y. Filed Oct. 18, 1941.

COLONIST TWEED

The word "Tweed" is disclaimed apart from the mark.
FOR MEN'S, YOUTHS', AND BOYS' SUITS, TOPCOATS, OVERCOATS, SPORT COATS, AND SLACKS.
Claims use since May 14, 1941.

Ser. No. 448,196. S. MAKRANSKY & SONS, Philadelphia, Pa. Filed Oct. 28, 1941.

Cornhusk
SHETLAND TYPE

The words "Shetland Type" are disclaimed apart from the mark.
FOR SUITS, COATS, VESTS, PANTS, OVERCOATS, AND TOPCOATS FOR DRESS WEAR AS DISTINGUISHED FROM WORKING CLOTHES FOR MEN.
Claims use since July 21, 1941.

Ser. No. 449,187. MEN'S HATS, INC., Baltimore, Md. Filed Dec. 4, 1941.

THE Corvette

FOR MEN'S HATS.
Claims use since Nov. 12, 1941.

Ser. No. 449,314. BYR KAY COMPANY, Delavan, Wis. Filed Dec. 9, 1941.

Byr Kay

Applicant disclaims the word "Kay" except as shown.
FOR MEN'S, WOMEN'S, AND CHILDREN'S KNITTED SPORTSWEAR AND OUTERWEAR—NAMELY, SWEATERS, JACKETS, DRESSES, HOODS, AND RAINCOATS.
Claims use since Sept. 30, 1941.

Ser. No. 450,404. FLORENCE C. PRESS, New Haven, Conn. Filed Jan. 22, 1942.

GREEN LIGHT

FOR HOSIERY AND UNDERWEAR FOR MEN, WOMEN, AND CHILDREN, AND OUTERWEAR ALSO FOR MEN, WOMEN, AND CHILDREN—NAMELY, SPORT-SHIRTS, SWEATERS, AND PAJAMAS.
Claims use since January, 1940.

Ser. No. 450,879. HAROLD C. MYERS, doing business as E. B. Myers Co., Los Angeles, Calif. Filed Feb. 10, 1942.

VICTORETTE

FOR WOMEN'S AND MEN'S CLOTHING—NAMELY, WOMEN'S UTILITY DRESSES, CULOTTE DRESSES, CAPS, HATS, SHIRTS, COVERALLS, OVERALLS, JUMPERALLS, COATS, SLACKS, AND SHORTS, AND MEN'S OVERALLS.
Claims use since Jan. 22, 1942.

Ser. No. 452,168. KENT-PARK, INC., New York, N. Y. Filed Apr. 6, 1942.

KENT PARK

The word "Kent" is disclaimed apart from the mark.
FOR LADIES' SUITS.
Claims use since Aug. 1, 1937.

Ser. No. 452,354. JAMES JEBAILY INC., New York, N. Y. Filed Apr. 15, 1942.

JAY ANN

FOR NEGLIGEES, HOUSE COATS, PAJAMAS, AND NIGHTGOWNS.
Claims use since Sept. 1, 1940.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 444,440. THE COTTON BOARD, Manchester, England. Filed June 12, 1941. Under the act of February 20, 1905, as amended June 10, 1938.

BRITISH COTTONS
FABRIC MADE IN GREAT BRITAIN
CERTIFIED BY THE COTTON BOARD
MANCHESTER ENGLAND

No claim is made to any wording apart from the mark.
FOR TEXTILE PIECE GOODS MADE WHOLLY OR PRINCIPALLY OF COTTON.
Claims use since Feb. 7, 1941.

Ser. No. 449,318. FRENCH FABRICS CORPORATION, New York, N. Y. Filed Dec. 9, 1941.

DUETTA CREPE

The word "Crepe" is disclaimed apart from the mark.
FOR TEXTILE FABRICS IN THE PIECE, OF COTTON, ACETATE, RAYON, AND COMBINATIONS THEREOF.
Claims use since Sept. 1, 1939.

Ser. No. 451,225. COLLINS & AIKMAN CORPORATION, Philadelphia, Pa., and New York, N. Y. Filed Feb. 26, 1942.

CAVELKING

FOR WORSTED FABRICS IN THE PIECE AND CUT LENGTHS SUITABLE FOR THE OUTER MATERIAL OF MEN'S SUITS AND TOPCOATS.
Claims use since Jan. 6, 1942.

Ser. No. 451,290. CAMEO FABRICS, New York, N. Y. Filed Feb. 28, 1942.

AMERICAN NUNGH

The word "American" is disclaimed apart from the mark.
FOR WOVEN TEXTILE FABRICS IN THE PIECE CONTAINING ACETATE, SPUN RAYON, AND SYNTHETIC YARNS, OR MIXTURES THEREOF.
Claims use since March, 1941.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 452,615. KERR DENTAL MANUFACTURING CO., Detroit, Mich. Filed Apr. 27, 1942.

FOILEX

FOR COATING MATERIAL FOR DENTAL MOLDS.
Claims use since Apr. 2, 1942.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 433,857. HUGH AITCHISON GREEN, Montreal, Canada. Filed July 11, 1940.



The representation of the boy is fanciful.
FOR SCOTCH CURE KIPPER HERRINGS, SMOKED HADDIE, SMOKED FILLETS, FISH DRESSING, AND FISH SAUCE.
Claims use since Nov. 27, 1915.

Ser. No. 442,141. SANTA ROSA ESTANCIAS SOCIEDAD ANONIMA, Buenos Aires, Argentina. Filed Mar. 31, 1941.



The mark comprises a stylistic form of the numeral 3 with the upper portion extending in circular formation partially enclosing the numeral.
FOR CHEESE.
Claims use since February, 1932.

Ser. No. 444,649. WILLIAM B. LUPTON, doing business as Lupton's Ice Cream Co., Camas, Wash. Filed June 18, 1941.

JACK POT

The name "Lupton" and the terms "Camas" and "Wash." are disclaimed.
FOR ICE MILK BARS AND ICE CREAM BARS.
Claims use since Mar. 1, 1941.

Ser. No. 446,928. SNIDER PACKING CORPORATION, Rochester, N. Y. Filed Sept. 9, 1941.

Snider's

Applicant is owner of T. M. Reg. No. 235,770 under the 10-year proviso covering the name "Snider's."
FOR CANNED FRUITS AND VEGETABLES, AND CANNED FRUIT AND VEGETABLE PRODUCTS—NAMELY, SAUERKRAUT, KRAUT COCKTAIL, VEGETABLE JUICE COCKTAIL, TOMATO JUICE COCKTAIL, CATSUP, CHILI SAUCE, COCKTAIL SAUCE, APPLE SAUCE, APPLE JUICE, TOMATO JUICE, PEAR NECTAR, AND PEACH NECTAR.
Claims use since January, 1940.

Ser. No. 447,621. SNIDER PACKING CORPORATION, Rochester, N. Y. Filed Oct. 8, 1941.

Snider's
Quick Frozen

The words "Quick Frozen" are disclaimed apart from the mark. Applicant is owner of T. M. Reg. No. 235,770 under the 10-year proviso covering the name "Snider's."
FOR FROZEN FRUITS, FROZEN VEGETABLES, AND FROZEN FISH.
Claims use since October, 1940.

Ser. No. 449,499. THE QUAKER OATS COMPANY, Chicago, Ill. Filed Dec. 15, 1941.

QUICK QUAKER OATS

Applicant is owner of T. M. Reg. Nos. 199,430, and 199,431. The drawing is lined for red, white, blue, and yellow. The word "Oats" is disclaimed except when used with the words "Quick Quaker."
FOR ROLLED OATS.
Claims use since May 29, 1939.

Ser. No. 450,050. LEEF-SCHNIEBOLK COMPANY, New York, N. Y. Filed Jan. 7, 1942.

PRIDE OF OURS

FOR FRESH TOMATOES.
Claims use since Sept. 1, 1939.

Ser. No. 450,320. A. J. TEBBE & SONS CO., Cotulla, Tex. Filed Jan. 19, 1942.

GREEN BELLE

No claim is made to the word "Green" apart from the mark.
FOR FRESH VEGETABLES—NAMELY, BELL PEPPERS.
Claims use since Dec. 4, 1941.

Ser. No. 450,940. MORSE & SKINNER, Lodi, Calif. Filed Feb. 13, 1942.

COLDAIRE

FOR FRESH FRUITS—NAMELY, FRESH GRAPES.
Claims use since Dec. 23, 1941.

Ser. No. 451,357. AMERICAN POP CORN COMPANY, Sioux City, Iowa. Filed Mar. 3, 1942.

TIP TOP

FOR RAW AND POPPED POP CORN NOT CANDIED.
Claims use since July 15, 1933.

Ser. No. 452,064. ADAMS PACKING COMPANY, INC., Auburndale, Fla. Filed Apr. 1, 1942.

LUCKY GOLD

FOR FRESH CITRUS FRUITS AND CANNED CITRUS FRUITS, AND CANNED CITRUS JUICES.
Claims use since Mar. 23, 1942.

Ser. No. 452,183. BODINE-DAVIS CO., Phoenix, Ariz. Filed Apr. 7, 1942.

GOOD TIP

No claim is made to the word "Good" apart from the mark.
FOR FRESH VEGETABLES—NAMELY, LETTUCE.
Claims use since November, 1938.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 451,100. AUSTIN, NICHOLS & CO., INC., Brooklyn, N. Y. Filed Feb. 20, 1942.

Austin Nichols
Est. 1847
A Masterpiece of Unified Blending
RESERVE
"A Reliable Source of Supply"

Applicant is the owner of Reg. Nos. 348,739 and 349,355, effected under the 10-year proviso. The words "A Masterpiece of Unified Blending," "Reserve," and "A Reliable Source of Supply" are disclaimed apart from the mark.
FOR WHISKEY.
Claims use since Sept. 30, 1941.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 445,094. GLOBE AMERICAN CORPORATION, Macomb, Ill. Filed July 5, 1941.

VI-O-LITE

FOR TRANSPARENT FLEXIBLE MATERIAL USED AS A SUBSTITUTE FOR GLASS IN POULTRY HOUSES AND THE LIKE.

Claims use since Jan. 29, 1941.

Ser. No. 451,260. CHRYSLER CORPORATION, Highland Park, Mich. Filed Feb. 27, 1942.

PAYMASTER

FOR BLANK QUOTA CHARTS IN THE NATURE OF BILLBOARDS.

Claims use since Sept. 23, 1941.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JUNE 9, 1942

395,717. SHOES, PRINCIPALLY OF LEATHER. MOULTON, BARTLEY, INC., St. Louis, Mo.
Filed January 3, 1939. Serial No. 414,462. PUBLISHED MARCH 10, 1942. Class 39.

395,718. LUBRICATING OILS AND GREASES. HAROLD C. HALL, doing business as Clayton Oil Company, Pleasant Ridge, Cincinnati, Ohio.
Filed July 29, 1939. Serial No. 422,094. PUBLISHED OCTOBER 3, 1939. Class 15.

395,719. TANK TYPE WATER SOFTENERS. SERVISOFT, INC., Rockford, Ill.
Filed December 4, 1939. Serial No. 426,231. PUBLISHED MARCH 31, 1942. Class 13.

395,720. TANK TYPE WATER SOFTENERS. SERVISOFT, INC., Rockford, Ill.
Filed December 7, 1939. Serial No. 426,348. PUBLISHED MARCH 31, 1942. Class 13.

395,721. COFFEE. E. BIERHAUS & SONS, Vincennes, Ind.
Filed December 9, 1940. Serial No. 438,643. PUBLISHED MARCH 31, 1942. Class 46.

395,722. ELECTRIC LIGHTING FIXTURES. THE ART METAL COMPANY, Cleveland, Ohio.
Filed January 2, 1941. Serial No. 439,328. PUBLISHED MARCH 24, 1942. Class 21.

395,723. CANDY. RAMON F. ADAMS, doing business as Adams Candy Company, Dallas, Tex.
Filed February 3, 1941. Serial No. 440,229. PUBLISHED MARCH 31, 1942. Class 46.

395,724. MICROPHONES. THE BRUSH DEVELOPMENT COMPANY, Cleveland, Ohio.
Filed March 20, 1941. Serial No. 441,723. PUBLISHED MARCH 24, 1942. Class 21.

395,725. STATUES AND FIGURES USED FOR ORNAMENTAL PURPOSES. CLINTON F. ROSE, doing business as Redwood Garden Materials Company, Los Angeles, Calif.
Filed May 19, 1941. Serial No. 443,703. PUBLISHED MARCH 31, 1942. Class 50.

395,726. FURNITURE POLISH AND REFINISHING AND POLISHING KITS FOR WOODEN CABINETS CONTAINING SPATULA, BRUSH, FELT RUBBING BLOCK, POLISH, GLUE, RUBBING OIL, TRIPOLI POWDER, ANILINE STAIN POWDERS, STICK SHELLAC, AND SANDPAPER. RCA MANUFACTURING COMPANY, INC., Camden, N. J.
Filed July 12, 1941. Serial No. 445,298. PUBLISHED MARCH 31, 1942. Class 16.

395,727. CHEWING GUM. FRANK H. FLEER CORPORATION, Philadelphia, Pa.
Filed July 17, 1941. Serial No. 445,412. PUBLISHED MARCH 31, 1942. Class 46.

395,728. CORN STARCH. A. E. STALEY MANUFACTURING COMPANY, Decatur, Ill.
Filed July 24, 1941. Serial No. 445,618. PUBLISHED MARCH 31, 1942. Class 46.

395,729. BOTTLED GAS INSTALLATION HOUSING AND EQUIPMENT UNITS. UTILITIES DISTRIBUTORS, INC., Portland, Maine.
Filed July 26, 1941. Serial No. 445,675. PUBLISHED MARCH 31, 1942. Class 34.

395,730. MONTHLY PUBLICATIONS, CHARTS, AND BOOKLETS. H-M STANDARD PRODUCTS, INC., Freeport, N. Y.
Filed September 4, 1941. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 446,779. PUBLISHED MARCH 31, 1942. Class 38.

395,731. ELECTRIC LIGHTERS FOR CIGARS AND CIGARETTES. FORD MOTOR COMPANY, Dearborn, Mich.
Filed September 19, 1941. Serial No. 447,182. PUBLISHED MARCH 31, 1942. Class 21.

395,732. PERIODICAL PUBLICATION. AIR REDUCTION SALES COMPANY, New York, N. Y.
Filed October 4, 1941. Serial No. 447,531. PUBLISHED MARCH 31, 1942. Class 38.

395,733. LIVESTOCK AND POULTRY FEED. ARCADY FARMS MILLING COMPANY, Chicago, Ill.
Filed October 14, 1941. Serial No. 447,776. PUBLISHED MARCH 31, 1942. Class 46.

395,734. LAUNDRY WASHING MACHINES. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio.
Filed October 22, 1941. Serial No. 448,000. PUBLISHED MARCH 31, 1942. Class 24.

395,735. PREPARATION FOR USE ON GLASS, LENSES, REFLECTORS, WINDSHIELDS, GOGGLES, PHYSICIANS' OR DENTISTS' INSTRUMENTS, EYE GLASSES, GAS MASKS, WINDOWS, MIRRORS, AND THE LIKE, FOR PREVENTING THE FORMATION OF FOG, STEAM, FROST, OR PERSPIRATION THEREON. CARHOFF COMPANY, Cleveland Heights, Ohio.
Filed October 30, 1941. Serial No. 448,243. PUBLISHED MARCH 31, 1942. Class 4.

395,736. COAL. THE SUNDAY CREEK COAL COMPANY, Columbus, Ohio.
Filed November 1, 1941. Serial No. 448,345. PUBLISHED MARCH 31, 1942. Class 1.

395,737. COAL. THE SUNDAY CREEK COAL COMPANY, Columbus, Ohio.
Filed November 1, 1941. Serial No. 448,346; PUBLISHED MARCH 31, 1942. Class 1.

395,738. RIBBON MANUFACTURED FROM ARTIFICIAL FIBERS AND USED FOR TYING PACKAGES AND OTHER USES. FREYDBERG BROS., INC., Stamford, Conn., and New York, N. Y.
Filed November 22, 1941. Serial No. 448,823. PUBLISHED MARCH 31, 1942. Class 7.

395,739. COMIC MAGAZINE. M. CHARLES GAINES, New York, N. Y.
Filed November 24, 1941. Serial No. 448,861. PUBLISHED MARCH 31, 1942. Class 38.

395,740. ADVERTISING DEVICE FOR LIPSTICKS SOLD AS SUCH. ELIZABETH ARDEN SALES CORPORATION, New York, N. Y.
Filed November 29, 1941. Serial No. 449,033. PUBLISHED MARCH 31, 1942. Class 50.

395,741. CONTROL APPARATUS FOR ELECTRIC WELDERS. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa.
Filed December 2, 1941. Serial No. 449,110. PUBLISHED MARCH 24, 1942. Class 21.

395,742. WOMEN'S APPAREL—NAMELY, BLOUSES, SKIRTS, DRESSES, AND SUITS. SPORTS VOGUE, New York, N. Y.
Filed December 2, 1941. Serial No. 449,113. PUBLISHED MARCH 31, 1942. Class 39.

395,743. GLASS FIGURINES. JOHN HERBST, doing business as Manor Glass Co., New York, N. Y.
Filed December 5, 1941. Serial No. 449,206. PUBLISHED MARCH 31, 1942. Class 50.

395,744. CHEWING AND SMOKING TOBACCO. JOHN C. HERMAN & Co., New Cumberland, Pa.
Filed December 8, 1941. Serial No. 449,274. PUBLISHED MARCH 31, 1942. Class 17.

395,745. LAUNDRY MACHINERY AND EQUIPMENT—NAMELY, CENTRIFUGAL EXTRACTORS. ZEPHYR LAUNDRY MACHINERY CO., INC., Chicago, Ill.
Filed December 9, 1941. Serial No. 449,333. PUBLISHED MARCH 10, 1942. Class 24.

395,746. CIRCULATOR FAN ASSEMBLIES. KISCO COMPANY, INC., St. Louis, Mo.
Filed December 13, 1941. Serial No. 449,459. PUBLISHED MARCH 24, 1942. Class 21.

395,747. ELECTRIC LIGHTING FIXTURES—NAMELY, FLUORESCENT COMMERCIAL FIXTURES. DAY-BRITE LIGHTING, INC., St. Louis, Mo.
Filed December 15, 1941. Serial No. 449,477. PUBLISHED MARCH 24, 1942. Class 21.

395,748. LADIES' FULL FASHION HOSIERY. HUFFMAN FULL FASHIONED MILLS, INC., Morganton, N. C.
Filed December 16, 1941. Serial No. 449,521. PUBLISHED MARCH 31, 1942. Class 39.

395,749. HIGH-VOLTAGE INDICATORS COMPRISING NEON DISCHARGE TUBES USED TO INDICATE PRESENCE OF HIGHLY CHARGED CABLES. AIR REDUCTION SALES COMPANY, New York, N. Y.
Filed December 17, 1941. Serial No. 449,532. PUBLISHED MARCH 17, 1942. Class 21.

395,750. SYNDICATED ARTICLES APPEARING IN DAILY NEWSPAPERS. PRESS ALLIANCE, INC., New York, N. Y.
Filed December 17, 1941. Serial No. 449,554. PUBLISHED MARCH 31, 1942. Class 38.

395,751. WOMEN'S AND MISSES' OUTER COATS AND CAPES OF FUR AND/OR FABRICS, AND SUITS, DRESSES, GOWNS, BLOUSES, HOUSE COATS, AND ROBES OF SILK, WOOL, COTTON, RAYON, AND MIXTURES THEREOF. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed December 18, 1941. Serial No. 449,571. PUBLISHED MARCH 31, 1942. Class 39.

395,752. REFINISHING COMPOUND IN THE NATURE OF PAINT FOR FABRICS HAVING THE PROPERTY OF COLORING THE SAME. THE MERCURY CORPORATION, Kansas City, Mo.
Filed December 19, 1941. Serial No. 449,620. PUBLISHED MARCH 31, 1942. Class 16.

395,753. REFRIGERATORS, PARTS THEREOF, AND ACCESSORIES THEREFOR—NAMELY, REFRIGERATING UNITS AND TEMPERATURE REGULATING UNITS. RCA MANUFACTURING COMPANY, INC., Camden, N. J.
Filed December 27, 1941. Serial No. 449,807. PUBLISHED MARCH 31, 1942. Class 31.

395,754. PAPER PRODUCTS, SPECIFICALLY PAPER TOWELS. BROWN COMPANY, Berlin, N. H.
Filed December 30, 1941. Serial No. 449,849. PUBLISHED MARCH 31, 1942. Class 37.

395,755. MONTHLY, ILLUSTRATED, FASHION MAGAZINE OR PUBLICATION. HARRY CONOVER, New York, N. Y.
Filed December 30, 1941. Serial No. 449,851. PUBLISHED MARCH 31, 1942. Class 38.

395,756. ACCESSORIES, REPLACEMENT PARTS AND SUPPLIES FOR AUTOMOTIVE VEHICLES—NAMELY, RADIATOR CAPS, WINDSHIELD WIPER BLADES, SHOCK ABSORBERS, AND BRAKE SHOES. ECONOMY AUTO STORES, INC., Atlanta, Ga.
Filed December 31, 1941. Serial No. 449,899. PUBLISHED MARCH 31, 1942. Class 19.

395,757. TROUSERS, VESTS, CAPES, BREECHES, SHIRTS, AND JACKETS FOR MEN. THE HETTRICK MANUFACTURING COMPANY, Toledo, Ohio.
Filed December 31, 1941. Serial No. 449,904. PUBLISHED MARCH 31, 1942. Class 39.

395,758. PAINT BOXES, SOMETIMES CALLED PAINT SETS, PAINT TRAYS, AND PAINT PANS, ALL FOR WATER COLOR PAINTS. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio.
Filed January 2, 1942. Serial No. 449,950. PUBLISHED MARCH 31, 1942. Class 16.

395,759. DRESS SHIRTS AND SPORT SHIRTS. GERSON-GOODMAN-TUTELMAN CO., Philadelphia, Pa.
Filed January 3, 1942. Serial No. 449,978. PUBLISHED MARCH 31, 1942. Class 39.

395,760. SWEATERS AND SWEATER ENSEMBLES. RO-NAT SPORTSWEAR, INC., New York, N. Y.
Filed January 3, 1942. Serial No. 449,982. PUBLISHED MARCH 31, 1942. Class 39.

395,761. LEATHER CLEANING AND POLISHING PREPARATION. K. J. QUINN & CO. INC., Boston, Mass.
Filed January 5, 1942. Serial No. 450,000. PUBLISHED MARCH 31, 1942. Class 4.

395,762. MEAT PRODUCTS—VIZ., A MEAT LOAF. THE TOBIN PACKING COMPANY, INCORPORATED, Fort Dodge, Iowa.
Filed January 5, 1942. Serial No. 450,005. PUBLISHED MARCH 31, 1942. Class 46.

395,763. MEN'S SUITS AND OVERCOATS. B. LOWENSTEIN & BROS. INC., Memphis, Tenn.
Filed January 6, 1942. Serial No. 450,016. PUBLISHED MARCH 31, 1942. Class 39.

395,764. SOAP. LEHN & FINK PRODUCTS CORPORATION, Bloomfield, N. J.
Filed January 9, 1942. Serial No. 450,105. PUBLISHED MARCH 31, 1942. Class 4.

395,765. MONTHLY PUBLICATION CONTAINING DIGESTS OF SELECTED PARTS OF THE CONGRESSIONAL RECORD. THE RUMFORD PUBLISHING COMPANY, Rumford, Maine.
Filed January 9, 1942. Serial No. 450,116. PUBLISHED MARCH 31, 1942. Class 38.

395,766. LOCKS AND KEYS. MILTON HALL, New York, N. Y.
Filed January 13, 1942. Serial No. 450,180. PUBLISHED MARCH 31, 1942. Class 25.

395,767. SOUP MIXTURES. THE QUAKER OATS COMPANY, Chicago, Ill.
Filed January 15, 1042. Serial No. 450,247. PUBLISHED MARCH 31, 1942. Class 46.

395,768. RESIN-BEARING FIBROUS ARTICLES—NAMELY. PLATES, DISHES, TRAYS, AND CUPS. KEYES FIBRE COMPANY, Waterville, Maine.
Filed January 17, 1942. Serial No. 450,280. PUBLISHED MARCH 31, 1942. Class 2.

395,769. FRESH CITRUS FRUITS. STANFORD FRUIT GROWERS, INC., Lake Alfred, Fla.
Filed January 17, 1942. Serial No. 450,292. PUBLISHED MARCH 31, 1942. Class 46.

395,770. TRACTION SPLINTS, AND TRACTION APPLYING ATTACHMENTS FOR TRACTION SPLINTS. THE BRIDGEPORT DEVICE CO., INC., Bridgeport, Conn.
Filed January 19, 1942. Serial No. 450,301. PUBLISHED MARCH 31, 1942. Class 44.

395,771. EYEGLASS LENSES, SPECTACLE LENSES, GUN SIGHT LENSES. IRVING LAMPERT, doing business as Irving Lampert Co., Brooklyn, N. Y.
Filed January 19, 1942. Serial No. 450,310. PUBLISHED MARCH 31, 1942. Class 26.

395,772. CELLULOID-BACKED LEATHER TOPLIFTS FOR SHOES. CAPACHIONE BROS. & CO., Brockton, Mass.
Filed January 21, 1942. Serial No. 450,353. PUBLISHED MARCH 31, 1942. Class 39.

395,773. MONTHLY PERIODICAL. FLEETWINGS, INCORPORATED, Bristol, Pa.
Filed January 21, 1942. Serial No. 450,357. PUBLISHED MARCH 31, 1942. Class 38.

395,774. POTATOES. GILCREST EARLY POTATO ASSOCIATION, INC., Gilcrest, Colo.
Filed January 23, 1942. Serial No. 450,418. PUBLISHED MARCH 31, 1942. Class 46.

395,775. ELECTRIC FENCE CONTROLLERS. THE PRIME MANUFACTURING COMPANY, Milwaukee, Wis.
Filed January 23, 1942. Serial No. 450,427. PUBLISHED MARCH 31, 1942. Class 21.

395,776. ELECTRIC FENCE CONTROLLERS. THE PRIME MANUFACTURING COMPANY, Milwaukee, Wis.
Filed January 23, 1942. Serial No. 450,428. PUBLISHED MARCH 31, 1942. Class 21.

395,777. MEN'S AND BOYS' SPORT JACKETS, RAINCOATS, GOLF JACKETS. A. STARR & COMPANY, New York, N. Y.
Filed January 23, 1942. Serial No. 450,431. PUBLISHED MARCH 31, 1942. Class 39.

395,778. CABINETS FOR ELECTRIC CONTROL APPARATUS. GENERAL ELECTRIC COMPANY, Schenectady, N. Y.
Filed January 24, 1942. Serial No. 450,448. PUBLISHED MARCH 31, 1942. Class 21.

395,779. PRINTED CARDS. ROY POST, New York, N. Y.
Filed January 24, 1942. Serial No. 450,458. PUBLISHED MARCH 31, 1942. Class 38.

395,780. DENTAL SUPPLIES—NAMELY, ARTIFICIAL TEETH. UNIVERSAL DENTAL COMPANY, Philadelphia, Pa.
Filed January 27, 1942. Serial No. 450,524. PUBLISHED MARCH 31, 1942. Class 44.

395,781. FIRST AID KITS, AND BANDAGES CONTAINED AND SOLD IN DISPENSERS. HENRY LERER, doing business as Medical Aid Supply Company, New York, N. Y.
Filed January 30, 1942. Serial No. 450,596. PUBLISHED MARCH 31, 1942. Class 44.

395,782. PERIODICAL MAGAZINE. THE UPJOHN COMPANY, Kalamazoo, Mich.
Filed January 31, 1942. Serial No. 450,635. PUBLISHED MARCH 31, 1942. Class 38.

395,783. DRESS AND SPORT SHIRTS, JACKETS, AND COATS FOR MEN AND BOYS. MARLBORO SHIRT COMPANY, INC., Baltimore, Md.
Filed February 2, 1942. Serial No. 450,652. PUBLISHED MARCH 31, 1942. Class 39.

395,784. CANNED, BOTTLED, AND PACKAGED PREPARATION OF WHICH COCONUT IS THE PRINCIPAL INGREDIENT. HOWARD PRESERVING COMPANY, INC., Miami, Fla.
Filed February 3, 1942. Serial No. 450,679. PUBLISHED MARCH 31, 1942. Class 46.

395,785. FRESH CITRUS FRUITS. PLANO PACKING HOUSE COMPANY, Porterville, Calif.
Filed February 9, 1942. Serial No. 450,861. PUBLISHED MARCH 31, 1942. Class 46.

395,786. WHEAT FLOUR. STANARD-TILTON MILLING CO., St. Louis, Mo.
Filed February 9, 1942. Serial No. 450,868. PUBLISHED MARCH 31, 1942. Class 46.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

395,787. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHNSTON'S LINENS, Medina, N. Y. Filed Feb. 5, 1940. Serial No. 428,235.

Johnstons

FOR LINEN AND COTTON SHEETS, PILLOW CASES, AND TURKISH TOWELS.
Claims use since Mar. 2, 1933.

395,788. (CLASS 32. FURNITURE AND UPHOLSTERY.) BUNTING GLIDER COMPANY, Philadelphia, Pa. Filed Dec. 30, 1940. Serial No. 439,266.



FOR OUTDOOR FURNITURE—NAMELY, GLIDERS, CHAIRS, ROCKERS, AND SETTEES.
Claims use since November, 1938.

395,789. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MESSING BAKERIES INCORPORATED, Brooklyn, N. Y. Filed Feb. 28, 1941. Serial No. 441,101.



FOR BREAD.
Claims use since Jan. 4, 1941.

395,790. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MESSING BAKERIES INCORPORATED, Brooklyn, N. Y. Filed Feb. 28, 1941. Serial No. 441,102.

Egg Loaf

FOR BREAD.
Claims use since Jan. 4, 1941.

395,791. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) NATIONAL PRESSURE COOKER COMPANY, Eau Claire, Wis. Filed Mar. 20, 1941. Serial No. 441,741.

STAY-KLEEN

FOR ALUMINUM COOKERS, PANS, SKILLETS, DUTCH OVENS, ROASTERS, TEAKETTLES AND COFFEE POTS.
Claims use since Oct. 28, 1940.

395,792. (CLASS 39. CLOTHING.) BLOOMINGDALE BROS., INC., New York, N. Y. Filed Mar. 31, 1941. Serial No. 442,099.

Ever-Crisp

FOR MAIDS' UNIFORMS AND APRONS.
Claims use since Dec. 31, 1940.

395,793. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE GATES RUBBER COMPANY, Denver, Colo. Filed Mar. 31, 1941. Serial No. 442,122.

TRU-CORD

The word "Cord" is disclaimed apart from the mark.
FOR PNEUMATIC TIRES.
Claims use since Mar. 1, 1941.

395,794. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARKETS, INC., Oakland, Calif. Filed Apr. 26, 1941. Serial No. 443,011.

HI-CLASS

FOR CANNED DOG FOOD.
Claims use since Apr. 14, 1941.

395,795. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) BOL, LTD., New York, N. Y. Filed May 9, 1941. Serial No. 443,392.

BOLSEY

FOR CINEMATOGRAPHIC AND PHOTOGRAPHIC APPARATUS AND ACCESSORIES THERETO—NAMELY, PHOTOGRAPHIC CAMERAS AND PROJECTORS, MOTION PICTURE CAMERAS AND PROJECTORS, LENSES, FILTERS, FILTER HOLDERS, FADING DEVICES, DEVICES FOR DELAYED EXPOSURE, SHUTTERS, PHOTOGRAPHIC ENLARGERS, TILTING DEVICES, SPLICERS, FILM VIEWERS, FILM WINDERS, PROJECTION SCREENS, EXPOSUREMETERS, FILM PRINTING AND DEVELOPING APPARATUS, DEVELOPING TANKS, FILM MAGAZINES, TRIPODS, AND TRIPOD HEADS.
Claims use since Feb. 24, 1941.

395,796. (CLASS 39. CLOTHING.) GLENDORABLE GOODS, Glendora, Calif. Filed June 9, 1941. Serial No. 444,338.

SĀF-TY-E

FOR SECURING DEVICES IN THE NATURE OF SHIRTS HAVING LONG TONGUES IN THE BACK FOR TYING PURPOSES FOR CHILDREN AND OTHERS.
Claims use since Mar. 21, 1941.

395,797. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) L. J. DITTMANN COFFEE CO., New Orleans, La. Filed June 17, 1941. Serial No. 444,598.



FOR COFFEE, AND COFFEE AND CHICORY.
Claims use since Apr. 5, 1941.

395,798. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAN TUDOR, Delano, Calif. Filed July 7, 1941. Serial No. 445,163.



FOR FRESH GRAPES.
Claims use since July, 1938.

395,799. (CLASS 38. PRINTS AND PUBLICATIONS.) LOUIS E. MCILVAIN, Chicago, Ill. Filed Aug. 20, 1941. Serial No. 446,396.

THE MASTER BARBER & BEAUTICIAN MAGAZINE

FOR A PERIODICAL.
Claims use since Apr. 20, 1941.

395,800. (CLASS 38. PRINTS AND PUBLICATIONS.) SONG LYRICS, INC., New York, N. Y. Filed Aug. 23, 1941. Serial No. 446,508.

Song Hits

FOR A PUBLICATION OF POPULAR SONGS, PUBLISHED MONTHLY.
Claims use since Feb. 25, 1937.

395,801. (CLASS 38. PRINTS AND PUBLICATIONS.) AMERICAN NEWSPAPERS, INC., New York, N. Y. Filed Jan. 10, 1942. Serial No. 450,132.

BOSTON EVENING AMERICAN

FOR A DAILY NEWSPAPER.
Claims use since Mar. 21, 1904.

395,802. (CLASS 39. CLOTHING.) KANE-WEILL, New York, N. Y. Filed Mar. 3, 1942. Serial No. 451,362.

WOODSTON
Classics

FOR LADIES' AND MISSES' DRESSES, BLOUSES, SKIRTS, JACKETS, DRESS AND JACKET ENSEMBLES, AND PLAYSUITS.
Claims use since Feb. 7, 1941.

395,803. (CLASS 39. CLOTHING.) BEE & EM MFG. CO., New York, N. Y., and Philadelphia, Pa. Filed Mar. 4, 1942. Serial No. 451,378.

LAKE PLACID

FOR MEN'S, WOMEN'S, AND CHILDREN'S SPORT JACKETS, LUMBERJACKETS, WINDBREAKERS, COATS, KNICKERS, AND SLACKS.
Claims use since July 24, 1940.

395,804. (CLASS 39. CLOTHING.) MAURICE L. ROTHSCHILD, INCORPORATED, Chicago, Ill. Filed Mar. 21, 1942. Serial No. 451,827.



ROTHLEY

FOR MEN'S AND WOMEN'S WEARING APPAREL—NAMELY, MEN'S SUITS, COATS, OVERCOATS, TOPCOATS, VESTS, TROUSERS, SLACK SUITS, PAJAMAS, KNICKERBOCKERS, AND BREECHES, AND WOMEN'S COATS, DRESSES, SUITS, SLACK SUITS, BLOUSES, AND PAJAMAS.
Claims use since May 21, 1939.

395,805. (CLASS 2. RECEPTACLES.) ROSSOTTI LITHOGRAPHING COMPANY, INC., North Bergen, N. J. Filed Apr. 1, 1942. Serial No. 452,081.

TRU-ART

FOR CARTONS.
Claims use since Mar. 1, 1940.

TRADE-MARK REGISTRATIONS RENEWED

21,268. **KAMO.** TEA. Registered June 7, 1892. PAXTON & GALLAGHER. Re-renewed June 7, 1942, to Paxton and Gallagher Co., Omaha, Nebr., a corporation of Nebraska, successor.

21,733. **TWIN LUXURIES.** DENTIFRICE. Registered September 13, 1892. FLORENCE MANUFACTURING COMPANY, Northampton, Mass., New York, N. Y., and Chicago, Ill. Re-renewed September 13, 1942, to Prophy-lac-tic Brush Company, Northampton, Mass., a corporation of Delaware, assignee by mesne assignments.

151,461. **TELENDURON.** CERTAIN NAMED MOLDED ELECTRICAL INSULATORS AND INSULATING APPLIANCES AND FITTINGS. Registered February 7, 1922. THOMAS DE LA RUE AND COMPANY LIMITED, London, England. Renewed February 7, 1942, to Thomas De La Rue and Company Limited, Haywards Heath, England, an organized company of Great Britain.

153,137. **CEMENTOPPING.** A PREPARED MIXTURE FOR USE IN THE CONSTRUCTION OF SIDEWALKS AND THE LIKE. Registered March 14, 1922. THE CLEVELAND BUILDERS SUPPLY AND BRICK COMPANY. Renewed March 14, 1942, to The Cleveland Builders Supply Company, Cleveland, Ohio, a corporation of Ohio, by change of name.

153,170. **MERRY WIDOW.** SELF-RISING FLOUR. Registered March 14, 1922. FORD FLOUR COMPANY. Renewed March 14, 1942, to Royal Flour Company, Nashville, Tenn., a firm, successor.

154,800. **MYSTOL.** FOOD-FLAVORING EXTRACT. Registered May 9, 1922. MYSTOL MANUFACTURING CO. Renewed May 9, 1942, to Mystol Manufacturing Company Inc., Glens Falls, N. Y., a corporation of New York, successor.

154,808. **KOTO.** WHITE MINERAL OIL. Registered May 9, 1922. STANDARD OIL COMPANY, (INCORPORATED IN NEW JERSEY), Bayonne, N. J., and New York, N. Y. Renewed May 9, 1942, to Stanco Incorporated, New York, N. Y., a corporation of Delaware, assignee.

154,911. **CRESCENT.** FASTENERS, PLATES, CLAMPS, AND RIVETS MADE OF ANY METAL FOR MACHINERY BELTING. Registered May 16, 1922. CRESCENT BELT FASTENER COMPANY. Renewed May 16, 1942, to Crescent Belt Fastener Company, Inc., New York, N. Y., a corporation of New York, assignee.

154,914. **"DARLING" WITHIN AN OVAL.** CERTAIN VALVES AND UNIONS AND INDICATOR POSTS, FLOOR STANDS, VALVE BOXES, FIRE HYDRANTS, FLANGES, AND FUSIBLE PLUGS. Registered May 16, 1922. DARLING VALVE & MANUFACTURING COMPANY, Williamsport, Pa., a corporation of Pennsylvania. Renewed May 16, 1942.

155,003. **DULL-ORA.** SILK PIECE GOODS. Registered May 16, 1922. H. R. MALLINSON & CO. INC. Renewed May 16, 1942, to Mallinson Fabrics Corporation, New York, N. Y., a corporation of New York, assignee.

155,189. **"AAA" IN AN OVAL.** PRINTED MAPS, PAMPHLETS, PRINTED BOOKS PUBLISHED ANNUALLY AND ALSO FROM TIME TO TIME. Registered May 23, 1922. AMERICAN AUTOMOBILE ASSOCIATION, Washington, D. C., and New York, N. Y. Renewed May 23, 1942, to American Automobile Association, Inc., Washington, D. C., a corporation of Connecticut.

155,190. **REPRESENTATION OF LABEL OF AMERICAN AUTOMOBILE ASSOCIATION.** PRINTED MAPS, PAMPHLETS, AND PRINTED BOOKS PUBLISHED ANNUALLY AND ALSO FROM TIME TO TIME. Registered May 23, 1922. AMERICAN AUTOMOBILE ASSOCIATION, Washington, D. C., and New York, N. Y. Renewed May 23, 1942, to American Automobile Association, Inc., Washington, D. C., a corporation of Connecticut.

155,251. **DRAP d' AMOUR.** SILK PIECE GOODS. Registered May 23, 1922. H. R. MALLINSON & CO., INC. Renewed May 23, 1942, to Mallinson Fabrics Corporation, New York, N. Y., a corporation of New York, assignee.

155,388. **GREYHOUND.** SMOKING TOBACCO AND CIGARETTES. Registered May 30, 1922. BRITISH-AMERICAN TOBACCO COMPANY, LIMITED, New York, N. Y. Renewed May 30, 1942, to Brown & Williamson Tobacco Corporation, Louisville, Ky., a corporation of Delaware, assignee.

155,556. **DOUBLE DUTY.** LIQUID STOVE CLEANSERS. Registered May 30, 1922. WALMAR LABORATORY. Renewed May 30, 1942, to Ira Parker, doing business as Walmar Laboratory, Oshkosh, Wis., successor.

155,699. **PUREX.** CERTAIN NAMED CHEMICAL, MEDICINAL, AND PHARMACEUTICAL PREPARATIONS. Registered June 6, 1922. GEORGE H. GUY, Seattle, Wash. Renewed June 6, 1942, to United Drug Company, Boston, Mass., a corporation of Delaware, assignee.

155,708. **HENEPH'S.** CERTAIN NAMED PREPARATIONS OR MEDICINES. Registered June 6, 1922. THE HENEPH CO., INC. Renewed June 6, 1942, to The Heneph Corporation, Kingston, N. Y., a corporation of New York, assignee by mesne assignments.

155,775. **SWEET SMOKES.** CANDY. Registered June 6, 1922. NEW ENGLAND CONFECTIONERY COMPANY, Boston. Mass. Renewed June 6, 1942, to New England Confectionery Company, Cambridge. Mass., a corporation of Massachusetts.

155,776. **RED STAR.** CANDY. Registered June 6, 1922. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass. Renewed June 6, 1942, to New England Confectionery Company, Cambridge, Mass., a corporation of Massachusetts.

155,780. **PALERMO.** CANDY. Registered June 6, 1922. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass. Renewed June 6, 1942, to New England Confectionery Company, Cambridge, Mass., a corporation of Massachusetts.

156,025. **CAMBRIDGE.** CANDY. Registered June 13, 1922. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass. Renewed June 13, 1942, to New England Confectionery Company, Cambridge, Mass., a corporation of Massachusetts.

156,026. **BIG SIX.** CANDY. Registered June 13, 1922. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass. Renewed June 13, 1942, to New England Confectionery Company, Cambridge, Mass., a corporation of Massachusetts.

156,027. **BEAUTY HEARTS.** CANDY. Registered June 13, 1922. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass. Renewed June 13, 1942, to New England Confectionery Company, Cambridge, Mass., a corporation of Massachusetts.

156,028. **BRAE BURN.** CANDY. Registered June 13, 1922. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass. Renewed June 13, 1942, to New England Confectionery Company, Cambridge, Mass., a corporation of Massachusetts.

156,368. **DEWEY SQUARES.** CANDY. Registered June 20, 1922. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass. Renewed June 20, 1942, to New England Confectionery Company, Cambridge, Mass., a corporation of Massachusetts.

156,401. **"7 3/4" ON REPRESENTATION OF A SKIN.** LEATHER GLOVES. Registered June 20, 1922. REYNIER & CIE., assignor to Etablissements Reynier. Renewed June 20, 1942, to Etablissements Reynier. Grenoble, France, a corporation of France, assignee.

157,043. **TELEDURON.** BOTTLE STOPPERS AND BOTTLE LIDS. Registered July 25, 1922. THOMAS DE LA RUE AND COMPANY LIMITED, London, England. Renewed July 25, 1942, to Thomas De La Rue and Company Limited, Haywards Heath, England, an organized company of Great Britain.

157,149. **MECCANO.** ELECTRICAL TOYS. Registered July 25, 1922. MECCANO LIMITED, Liverpool, England. Renewed July 25, 1942, to The A. C. Gilbert Company, New Haven, Conn., a corporation of Maryland, assignee.

157,186. **"REYNIER" SURROUNDED BY THE FIGURE OF A SERPENT BITING ITS TAIL.** SKIN GLOVES. Registered July 25, 1922. REYNIER & CIE., assignor to Etablissements Reynier. Renewed July 25, 1942, to Etablissements Reynier, Grenoble, France, a corporation of France, assignee.

157,219. **SUMMIT.** CERTAIN CUTTING TOOLS FOR WORKING WOOD AND METAL. Registered July 25, 1922. JOSEPH THOMPSON, by Timothy Shaw Woodcock, William Thompson, and Ernest Thompson, executors, doing business as Joseph Thompson. Renewed July 25, 1942, to Joseph Thompson (Sheffield) Limited, Sheffield, England, a corporation of the United Kingdom of Great Britain and Northern Ireland, successor.

158,116. **TOLHURST.** CENTRIFUGAL DRYING MACHINES, ALSO KNOWN AS HYDRO-EXTRACTORS. Registered August 22, 1922. TOLHURST MACHINE WORKS, Troy, N. Y. Renewed August 22, 1942, to American Machine and Metals, Inc., East Moline, Ill., a corporation of Delaware, assignee by mesne assignments.

158,127. **MONO-OUTLOOK.** ENVELOPES. Registered August 22, 1922. UNITED STATES ENVELOPE COMPANY, Springfield, Mass., a corporation of Maine. Renewed August 22, 1942.

158,311. **"UNIVERSAL" ON A RED HEART.** CERTAIN NAMED ELECTRICAL APPARATUS. Registered August 29, 1922. UNIVERSAL BATTERY COMPANY. Renewed August 29, 1942, to Universal Battery Company, Chicago, Ill., a corporation of Illinois, assignee.

158,423. **REPRESENTATION OF A TRIANGLE AND CIRCLE DESIGN.** CERTAIN NAMED ELECTRICAL APPARATUS. Registered September 5, 1922. DELTA-STAR ELECTRIC COMPANY, Chicago, Ill., a corporation of Illinois. Renewed September 5, 1942.

158,436. **DE LUXE.** TOOTHBRUSHES. Registered September 5, 1922. FLORENCE MANUFACTURING COMPANY. Renewed September 5, 1942, to Pro-phy-lac-tic Brush Company, Northampton, Mass., a corporation of Delaware, assignee by mesne assignments.

158,437. **FLORENCE.** TOOTH, HAIR, NAIL, FLESH, AND LATHER BRUSHES. Registered September 5, 1922. FLORENCE MANUFACTURING COMPANY. Renewed September 5, 1942, to Pro-phy-lac-tic Brush Company, Northampton, Mass., a corporation of Delaware, assignee by mesne assignments.

158,530. **CREMO.** NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES CONTAINING LESS THAN ONE-HALF OF ONE PER CENT ALCOHOL, BY VOLUME, SOLD AS A SOFT DRINK. Registered September 5, 1922. H. C. SCHRANCK CO., Milwaukee, Wis., a corporation of Wisconsin. Renewed September 5, 1942.

158,592. **THE GREAT AMERICAN HOME.** PICTURES AND CARTOONS PUBLISHED IN NEWSPAPERS AND MAGAZINES. Registered September 12, 1922. WALTER R. ALLMAN, Cleveland, Ohio. Renewed September 12, 1942, to Theresa H. Allman, Toledo, Ohio, successor.

158,637. **GLASCO.** GLASS PRODUCTS—NAMELY, THIN BLOWN MEDICINE GLASSES, MEDICINE DROPPERS, NASAL DOUCHES, AND NIPPLE SHIELDS. Registered September 12, 1922. THE CHICAGO GLASS PRODUCTS COMPANY. Renewed September 12, 1942, to Glasco Products Company, Chicago Ill., a corporation of Illinois, assignee.

158,828. **SUNCO.** DRY PAINTS. Registered September 12, 1922. SUN CHEMICAL & COLOR COMPANY, Wilmington, Del., and Harrison, N. J. Renewed September 12, 1942, to General Printing Ink Corporation, New York, N. Y., a corporation of Delaware, assignee.

159,018. **"LEVAN'S" WITHIN A CIRCULAR BAND.** FERTILIZERS. Registered September 19, 1922. HARRY D. LEVAN, doing business as Lebanon Fertilizer Works. Renewed September 19, 1942, to Lebanon Fertilizer Works, Lebanon, Pa., a corporation of Pennsylvania, assignee.

159,048. **BUNKER HILL.** CANDY. Registered September 19, 1922. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass. Renewed September 19, 1942, to New England Confectionery Company, Cambridge, Mass., a corporation of Massachusetts.

159,081. **LUCKY.** CERTAIN NAMED JEWELRY AND PRECIOUS-METAL WARE. Registered September 19, 1922. THE ALBERT S. SAMUELS CO. Renewed September 19, 1942, to Albert S. Samuels Co., San Francisco, Calif., a corporation of Delaware, assignee.

159,082. **THE HOUSE OF "LUCKY" WEDDING RINGS.** CERTAIN NAMED JEWELRY AND PRECIOUS-METAL WARE. Registered September 19, 1922. THE ALBERT S. SAMUELS CO. Renewed September 19, 1942, to Albert S. Samuels Co., San Francisco, Calif., a corporation of Delaware, assignee.

159,291. **"OLD MAN OF THE MOUNTAIN" WITHIN A CIRCULAR BAND.** KRAFT, WRAPPING, BOND AND PRINT PAPER, PAPER TOWELING, CREPE PAPER, AND PAPER FOR TOILET-PURPOSES. Registered September 26, 1922. BROWN COMPANY, Portland, Maine. Renewed September 26, 1942, to Brown Company, Berlin, N. H., a corporation of Maine.

159,313. **VERIFINE.** CORN MEAL. Registered September 26, 1922. CITY MILLS COMPANY, Columbus, Ga., a corporation of Georgia. Renewed September 26, 1942.

159,334. **ALSILOY.** NONFERROUS METAL CASTINGS. Registered September 26, 1922. DOEHLER DIE-CASTING COMPANY, Brooklyn, N. Y. Renewed September 26, 1942, to Doehler Die Casting Company, Toledo, Ohio, a corporation of New York.

159,335. **ALNALOY.** NONFERROUS METAL CASTINGS. Registered September 26, 1922. DOEHLER DIE-CASTING COMPANY, Brooklyn, N. Y. Renewed September 26, 1942, to Doehler Die Casting Company, Toledo, Ohio, a corporation of New York.

159,350. **"EL RENO'S ROYAL" IN AN OVAL.** WHEAT FLOUR. Registered September 26, 1922. EL RENO MILL & ELEVATOR CO., El Reno, Okla. Renewed September 26, 1942, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware, assignee.

159,458. **EL MORO.** CANNED FRUITS AND CANNED VEGETABLES. Registered September 26, 1922. FRED B. NEUHOFF, trading as Fred B. Neuhoff Company. Renewed September 26, 1942, to Fred B. Neuhoff, Los Angeles, Calif., assignee by mesne assignments.

159,489. **"EL VIGOR" ON A FIVE-FOIL LEAF.** WHEAT FLOUR. Registered September 26, 1922. THE RED STAR MILLING COMPANY, Wichita, Kans. Renewed September 26, 1942, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware, assignee.

159,490. **"LA REINA" AND A WHEAT FIELD SCENE.** WHEAT FLOUR. Registered September 26, 1922. THE RED STAR MILLING COMPANY, Wichita, Kans. Renewed September 26, 1942, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware, assignee.

159,496. **PURE GOLD.** PURE GEORGIA CANE SIRUP. Registered September 26, 1922. RODDENBERY BROS., Cairo, Ga., a firm. Renewed September 26, 1942.

159,532. **SPERRY PRODUCTS IN EVERY HOME.** WHEAT FLOUR. Registered September 26, 1922. SPERRY FLOUR COMPANY, San Francisco, Calif. Renewed September 26, 1942, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware, assignee by mesne assignments.

159,534. **"WIRTHMORE" AND PICTURES OF "THE WIRTHMORE BOYS".** POULTRY AND STOCK FEEDS. Registered September 26, 1922. ST. ALBANS GRAIN COMPANY, St. Albans, Vt. Renewed September 26, 1942, to New England Grain Products Co., Waterville, Maine, a corporation of Maine, assignee by mesne assignments.

159,859. **"CROSSLEY" ON A MALTESE CROSS WITHIN A RING.** MOTOR CARS. Registered October 10, 1922. CROSSLEY MOTORS LIMITED, Manchester, England, a company of the United Kingdom of Great Britain and Northern Ireland. Renewed October 10, 1942.

159,901. **H-O.** ANIMAL, BIRD, AND POULTRY FEEDS. Registered October 10, 1922. THE H-O CEREAL COMPANY, INC., Buffalo, N. Y. Renewed October 10, 1942, to Hecker Products Corporation, New York, N. Y., a corporation of New Jersey, by change of name, merger, and change of name.

159,924. **ATLAS.** HOT AND COLD SOUR FOR LAUNDRY PURPOSES AND IN TREATING TEXTILES. Registered October 10, 1922. H. KOHNSTAMM & CO., INC., New York, N. Y., a corporation of New York. Renewed October 10, 1942.

160,127. **KAFFO.** MALTLESS, CARBONATED, COFFEE BEVERAGE, SOLD AS A SOFT DRINK. Registered October 17, 1922. ANHEUSER-BUSCH, INCORPORATED. Renewed October 17, 1942, to Anheuser-Busch, Inc., St. Louis, Mo., a corporation of Missouri, assignee.

160,152. **GRAND.** GAS RANGES, GAS HEATERS; COMBINATION RANGES FOR COAL, WOOD, AND GAS; COMBINATION HEATERS FOR COAL, WOOD, AND GAS; COAL RANGES, COAL COOKSTOVES, COAL HEATERS AND FURNACES, AND PARTS THEREOF. Registered October 17, 1922. THE CLEVELAND CO-OPERATIVE STOVE COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed October 17, 1942.

160,194. **REPRESENTATION OF A PANEL DESIGN.** SAFETY-RAZOR BLADES. Registered October 17, 1922. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass., a corporation of Delaware. Renewed October 17, 1942.

160,368. **"TARGET" AND OTHER WORDING IN A TARGET DESIGN.** MACHINERY PACKING COMPOSED OF ASBESTOS AND RUBBER. Registered October 24, 1922. THE ANCHOR PACKING COMPANY, Philadelphia, Pa., a corporation of New Jersey. Renewed October 24, 1942.

160,415. **MASONS MYX.** PREPARED MASONRY MIXTURE OF SAND, CEMENT, AND HYDRATED LIME FOR MAKING MORTAR. Registered October 24, 1922. THE CLEVELAND BUILDERS SUPPLY & BRICK COMPANY. Renewed October 24, 1942, to The Cleveland Builders Supply Company, Cleveland, Ohio, a corporation of Ohio, by change of name.

160,486. **SINCERITY.** WRITING PAPER. Registered October 24, 1922. FOX RIVER PAPER COMPANY. Renewed October 24, 1942, to Fox River Paper Corporation, Appleton, Wis., a corporation of Wisconsin, assignee.

160,487. **APPROVAL.** WRITING PAPER. Registered October 24, 1922. FOX RIVER PAPER COMPANY. Renewed October 24, 1942, to Fox River Paper Corporation, Appleton, Wis., a corporation of Wisconsin, assignee.

160,488. **ALLEGIANCE.** WRITING PAPER. Registered October 24, 1922. FOX RIVER PAPER COMPANY. Renewed October 24, 1942, to Fox River Paper Corporation, Appleton, Wis., a corporation of Wisconsin, assignee.

160,591. **JOINTITE.** COMPOSITION CORK GASKETS AND COMPOSITION CORK SHEETS FROM WHICH GASKETS ARE CUT. Registered October 24, 1922. L. MUNDET & SON. Renewed October 24, 1942, to Mundet Cork Corporation, Brooklyn, N. Y., a corporation of New York, by consolidation.

160,701. **ONE PIECE OUTLOOK.** ENVELOPES. Registered October 24, 1922. UNITED STATES ENVELOPE COMPANY, Springfield, Mass., a corporation of Maine. Renewed October 24, 1942.

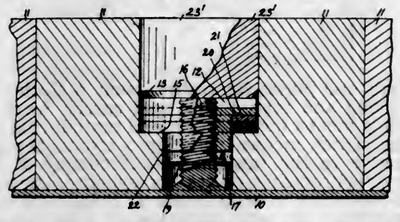
160,919. **MARVELLUM.** COVER PAPER. Registered October 31, 1922. THE MARVELLUM COMPANY, Holyoke, Mass., a corporation of Massachusetts. Renewed October 31, 1942.

REISSUES

JUNE 9, 1942

22,108
MEANS FOR SECURING SHEATHING TO METAL

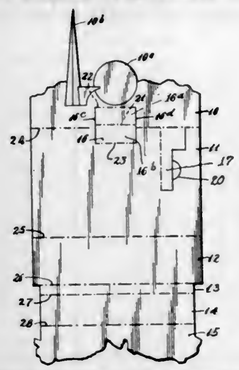
John D. Crecca, United States Navy
Original No. 2,134,705, dated November 1, 1938, Serial No. 173,442, November 8, 1937. Application for reissue July 15, 1940, Serial No. 345,675
18 Claims. (Cl. 114—84)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



2. In combination, a metal surface, a sheathing liable to be impaired by high temperatures, said sheathing having an opening therethrough and means for securing said sheathing to said metal surface comprising a threaded male member endwelded to said surface through said opening, a fire-resistant ferrule loosely enclosing and spaced from said welded end and insulating said sheathing from the heat of said welding, a threaded member screwed to said male member and having an externally projecting flange at its outer end contacting the sheathing.

22,109
GREETING REPLICA

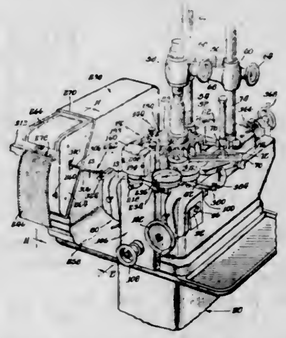
Helen Hayes, New York, N. Y.
Original No. 2,205,262, dated June 18, 1940, Serial No. 256,431, February 15, 1939. Application for reissue April 1, 1942, Serial No. 437,279
9 Claims. (Cl. 46—35)



1. A greeting replica, comprising a sheet of material having a cutout background panel extending substantially vertically and at its bottom connecting with a base panel extending to the front, a top panel continuing from the front edge of said base panel and extending rearwards on said base panel for a short distance, a vertical edge panel on the rear edge of said top panel, a mezzanine panel continuing rearwards from the top edge of said edge panel for a short distance, a foreground panel extending vertically from the rear of said mezzanine panel, an angle tab stamped from the background panel and the base panel and having a top wall extending between said foreground panel and said background panel and also having a vertical wall secured at an upper portion to said foreground panel, and a lock lug stamped from said base panel for being bent up against said mezzanine panel and between said foreground and background panels.

22,110
GEAR TESTING AND RECORDING MACHINE

Ouglesa Jules Poupitch, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Original No. 2,206,853, dated July 2, 1940, Serial No. 227,944, September 1, 1938. Application for reissue July 1, 1941, Serial No. 400,698
13 Claims. (Cl. 33—174)



13. In a surface tester and recorder, means for supporting a work piece, the surface of which is to be tested, a testing instrumentality including a contactor adapted to traverse the surface to be tested and to be deflected laterally of its direction of traversal of the surface according to the contour of said surface, an electric gauge connected to said contactor for converting the mechanical deflections of said contactor into electrical variations, shiftable means for relatively moving the work piece and the testing instrumentality to cause the surface engaging contactor to traverse the surface, a recorder remote from said gauge and said shiftable means and so supported as to be stationary during traversal of the surface by said contactor, said recorder having an electrically operable marking member, means electrically connecting said gauge to said marking member of the remote recorder for moving said marking member distances which in magnitude are multiples of the mechanical deflections of said contactor, said recorder including means for feeding the record sheet past said marking member, and means connecting said shiftable means to said sheet feeding means of the remote recorder for driving said sheet, said driving means and said sheet feeding means be-

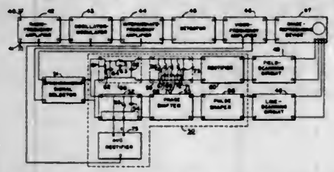
ing constructed to feed the sheet past the marking member in direct proportion to the extent of movement of said shiftable means.

22,111
CONTROL OF BROADCASTING BY KEYS
Albert D. Trenor, Gloucester, Mass., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Original No. 1,712,181, dated May 7, 1929, Serial No. 602,373, November 21, 1922. Application for reissue March 10, 1931, Serial No. 521,518
20 Claims. (Cl. 250—40)

16. The combination, with an adjustable tuning element of a radio receiving system, of a plurality of selectively operable means each acting upon operation to effect the movement of said element to a predetermined position.

22,112
TELEVISION BROADCAST SYSTEM
Harold A. Wheeler, Great Neck, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware
Original No. 2,271,322, dated January 27, 1942, Serial No. 328,351, April 6, 1940. Application for reissue March 3, 1942, Serial No. 433,244
16 Claims. (Cl. 178—6.8)

1. A television broadcast system comprising, a station for developing and transmitting a modulated-carrier wave including means for developing a video signal, means for developing continuous line-synchronizing pulses, means for developing a field-synchronizing signal consisting of one or more pairs of pulses for each field displaced half the period of said line-synchronizing pulses and effectively having the same area and having no part thereof coincident in duration with said line-synchronizing pulses, means for modulating a carrier wave with said developed



signals and pulses for transmission, a station for receiving and reproducing said carrier wave including means for detecting and reproducing said video signal, means including a circuit sharply-selective to the fundamental frequency of said line-synchronizing pulses for synchronizing the line scanning of said receiver, means for synchronizing the field scanning of said receiver, and means for applying to each of said two last-named means the composite synchronizing-signal component of a received carrier signal.

PLANT PATENTS

GRANTED JUNE 9, 1942

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

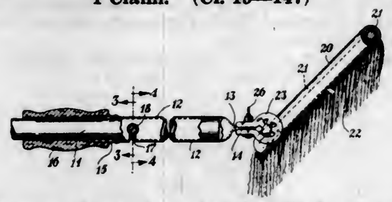
527
PHLOX
Elmer H. Schultz, Mentor, Ohio, assignor to The Wayside Gardens Company, Mentor, Ohio, a corporation of Ohio
Application October 31, 1941, Serial No. 417,320
1 Claim. (Cl. 47—60)

The variety of *phlox decussata* herein shown and described characterized by the exceptionally large flower heads and individual florets, the brilliant color of the flower heads and individual florets, the exceptionally long blooming period, the excellent permanence of the flower both on the growing plant and as a cut flower, the resistance of the foliage to mildew and the general resistance of the plant to diseases, the exceeding vigor, strength and height of the plant.

PATENTS

GRANTED JUNE 9, 1942

2,285,383
SHAKER MOP
William Hertzberg, New York, N. Y., assignor to Hertzberg Patents, Inc., New York, N. Y., a corporation of New York
Application December 14, 1939, Serial No. 309,220
1 Claim. (Cl. 15—147)



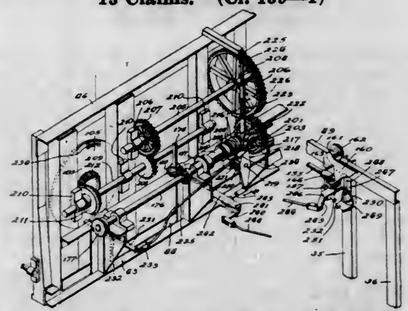
A mop of the character described comprising an elongated mop stick, an elongated socket member loosely encircling the lower end of the stick and having a flat extension, a frame member, mopping material attached to said frame member, a manually rotatable sleeve-like hand piece secured to said socket member for actuating the latter, means for connecting the frame member to the flat extension for hinge movement of the frame member in one direction and means for permitting limited bodily oscillation of said frame member relative to the mop stick in a different direction including a screw and slot connection between the stick and socket.

2,285,384
STAPLE DRIVER
Walter L. Schott, Los Angeles, Calif.
Application November 18, 1940, Serial No. 366,039
1 Claim. (Cl. 1—49)



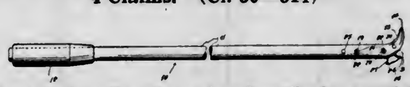
In a staple driver for driving staples at separated points in a stationarily disposed object, the combination of: an elongated tubular body provided intermediate its ends with an external annular flange and adapted to be gripped below said flange by one hand of the operator to move said driver between drive points and provided at its lower end with a staple-feeding channel; a driving plunger mounted in the bore of said body to reciprocate longitudinally thereof and adapted at its lower end to engage and drive a staple through said channel, said plunger projecting from said body at its upper end; a head on the upper end of said plunger adapted to be engaged by the other hand of the operator to drive said plunger downward; a spring in said body mounted to press said plunger upward; a magazine secured to said body adjacent said feeding channel and adapted to store staples flatwise against each other in a tier and feed them successively into said channel in edgewise relation therewith; a catch on said body adapted to engage said plunger and limit its upward movement to a point where its staple-engaging lower end is below the top of said tier of staples; and a vertically depressible spring-retrievable latch for disengaging said catch from said plunger and mounted on said flange and extending radially outward above the lower face of said flange in a position to be readily depressible by the thumb of said first hand when gripping said body.

2,285,385
LOOM CONTROLLING MECHANISM
William F. Astley, Cicero, Ill., assignor to Union Asbestos & Rubber Company, Chicago, Ill., a corporation of Illinois
Original application June 23, 1938, Serial No. 215,397. Divided and this application February 21, 1941, Serial No. 379,931
13 Claims. (Cl. 139—1)



1. In a controlling mechanism for a loom having two driven elements adapted to be driven alternately and a driving member adapted to be driven continuously with a controlling mechanism interposed between said driving member and said driven members comprising a clutch member having two positions on a driven shaft and adapted to connect the driving member with one or the other of said driven members alternately, said clutch member having an annular groove therein and a movable lever having a lug engaged in said groove, spring means adapted to be compressed by the movement of said lever when said clutch member moves from either of its engaging positions through a neutral position, and means engaging said lever and actuated by one of said driven members to move said lever and said clutch from one of its driving positions to the other of its driving positions.

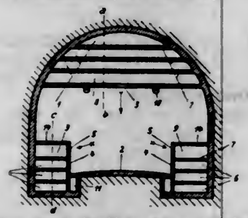
2,285,386
SHEET METAL WORKING TOOL
Wilmerth R. Atwood, Odessa, Tex.
Application December 5, 1940, Serial No. 368,717
4 Claims. (Cl. 30—314)



1. A tool of the character described comprising an elongated shank provided with a curved, tapered end forming the tool head, the outer side of said curved end being rounded, said shank, adjacent said curved end, being provided with a longitudinally disposed slot, and a cutting member detachably mounted in said slot and

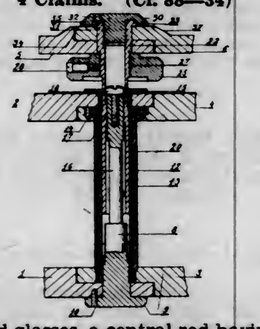
having a blade projecting therefrom, said blade having a cutting edge extending from the slot and from the outer side of said curved end, and said cutting edge being bowed inwardly and being curved to extend outwardly and toward the tool head.

2,285,387
VENTILATING INSTALLATION IN TUNNELS
Alfred Bartholomäi, Werchlaube, Lucerne, Switzerland
Application January 11, 1938, Serial No. 184,369
In Switzerland January 23, 1937
1 Claim. (Cl. 98—49)



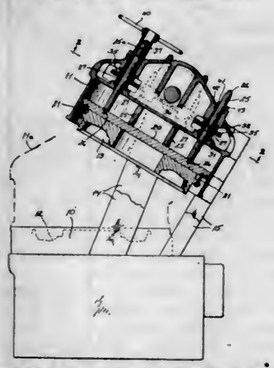
A ventilation installation in a vehicular roadway tunnel comprising in combination, a plurality of independent ventilating sections into which the length of the installation is divided, a plurality of independently controllable fresh air feed chambers in each section, fresh air feed slots situated in the upper part of the tunnel and independently connecting each fresh air feed chamber to the interior of the tunnel, means for feeding fresh air independently and separately to each of the said chambers, a plurality of independently controllable foul air chambers in each section, foul air exhausting slots situated at about that height above the road level at which the exhaust gases are discharged from vehicles and independently connecting each foul air chamber to the interior of the tunnel at an elevation which about equals the elevation of emission of the exhaust gases from the said vehicles, and means for withdrawing foul air independently and separately from each of the said chambers and discharging it to atmosphere.

2,285,388
ADJUSTING SYSTEM FOR FIELD GLASSES
Jacques Alfred Victor Benard, Paris, France
Application January 30, 1940, Serial No. 316,399
In France February 1, 1939
4 Claims. (Cl. 88—34)



1. In field glasses, a central rod having threads thereon, a head carried by said rod, a body arm mounted on said head, a hinge tube secured to and surrounding said central rod, a bracing tube surrounding said hinge tube, a second body arm mounted on said bracing tube adjacent the first body arm, a third body arm mounted on said bracing tube and spaced from the second body arm, a fourth body arm pivotally mounted on said hinge tube adjacent the third body arm, a nut tube extending into the hinge tube and threaded on said central rod, a hand wheel secured to said nut tube, and two eye-piece arms pivotally mounted on said nut tube to move therewith.

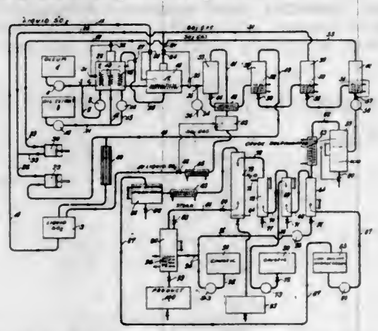
2,285,389
PRESS
Henry C. Bostwick, Akron, Ohio, assignor to The Akron Standard Mold Company, Akron, Ohio, a corporation of Ohio
Application July 9, 1940, Serial No. 344,526
10 Claims. (Cl. 18—17)



6. A press having in combination, a pair of coacting press heads, a mold part positioned within each head, means for adjusting at least one of the mold parts within the head, such means including a plurality of spaced screw and nut couples disposed upon the periphery of a circle, a sprocket wheel carried by each nut, and an endless chain enclosing all of the sprocket wheels and operatively connected thereto, a member projecting outside the head for actuating the chain, a hand wheel attached to said member, at least some of said screws having a detachable connection with the head, whereby they may be rotated independently of their associated nuts so as to skew the mold part.

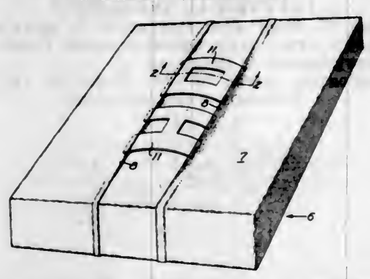
2,285,390
SYSTEM FOR MANUFACTURING SULPHONIC ACIDS
Robert L. Brandt, New York, N. Y., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
Application November 8, 1938. Serial No. 239,553
13 Claims. (Cl. 260—504)

1. The continuous process of sulphonation which comprises continuously dissolving oleum and hydrocarbons including a substantial proportion of constituen's of an unsaturated nature, including constituents of aromatic nature, in separate portions of liquid sulphur dioxide, flowing each portion in a stream through separate pre-cooling zones, combining the streams in a reaction zone where the reaction temperature is maintained at a sub-atmospheric, comparatively low sulphonation temperature, continuously flowing the reacting mass into a second reaction zone maintained at a sulphonation temperature higher than the first zone to substantially complete the reaction, diluting the reaction mass emerging from the second reaction zone with water, evaporating the sulphur dioxide from said diluted reaction mass, separating the solution containing the sulphonated products from said diluted reaction mixture, neutralizing the acid solution containing said sulphonated products with a base and drying to form a solid sulphonate product.



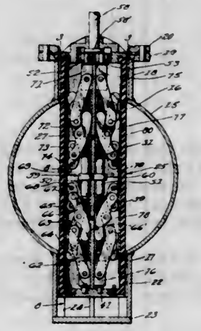
13. A process for continuous sulphonation of organic compounds containing a substantial proportion of constituents of an unsaturated nature, which comprises dissolving a sulphonating agent and such an organic compound in separate portions of liquid sulphur dioxide, continuously flowing said solutions into confluence to form a reacting mass while regulating the temperature thereof to low sulphonation temperatures, diluting the reaction mass with water to stop undesirable chemical reaction and evaporating the sulphur dioxide from said reaction mass.

2,285,391
BOX COVER
Warren A. Clark, Oakland, Calif.
Application December 16, 1939, Serial No. 309,592
1 Claim. (Cl. 229—8)



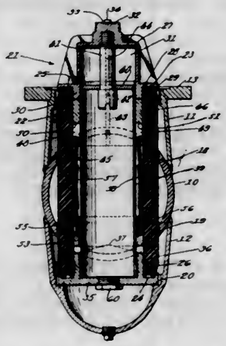
In a container having a lid, a sheet of flexible material covering and secured to said lid at the marginal edges thereof, said sheet of material having spaced parallel integral portions thereof, intermediate opposite of its said marginal edges, folded to form pleats of Z-shaped cross sectional form providing a pair of confronting socket recesses traversing said lid, said pleat-forming portions of said sheet of flexible material being folded over opposite edges of the lid which transverse the pleats so as to arrest unfolding of said pleats, and an insert element of flexible sheet material having parallel opposite edges thereof spaced apart a distance greater than the spacing between said socket recesses, and said insert being flexed and having its said opposite edges seated in said recesses.

2,285,392
PIPE LINE STOPPER
Earl E. Cline, Decatur, Ill., assignor to Mueller Co., Decatur, Ill., a corporation of Illinois
Application May 15, 1940, Serial No. 335,407
14 Claims. (Cl. 138—94)



1. A pipe line stopper comprising a rubber sleeve, a pair of transversely arcuate mandrels extending longitudinally of the sleeve and disposed oppositely therein, means for moving said mandrels apart to distend the sleeve on one diameter, and means within the sleeve for expanding the sleeve laterally on longitudinally extending curves between the lateral edges of said mandrels.

2,285,393
PIPE LINE STOPPER
Earl E. Cline, Decatur, Ill., assignor to Mueller Co., Decatur, Ill., a corporation of Illinois
Application May 15, 1940, Serial No. 335,408
15 Claims. (Cl. 138—94)

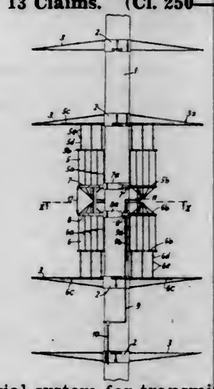


1. A pipe line stopper comprising a rubber sleeve having end caps adapted to be moved one toward the other, a cylindrical mandrel extending longitudinally of the sleeve with outer surfaces spaced from the inner surfaces of the sleeve, annular portions surrounding the mandrel within the sleeve and moved together when the caps are moved together, and a pair of flat springs extending longitudinally between the sleeve and mandrel at opposite sides thereof, the ends of said springs being engageable by said annular portions when the latter move together whereby the springs are outwardly bowed to distend said sleeve curvilinearly.

2,285,394
FLOTATION METHOD
Hugh W. Coke, Juneau, Territory of Alaska
No Drawing. Application July 24, 1940, Serial No. 347,274
13 Claims. (Cl. 209—166)

1. A process of beneficiating metalliferous ores which comprises admixing ground ore with a reagent prepared by reacting sulphonated castor oil with at least 1.1 times its weight of an alkali carbonate and separating in an aqueous pulp the mineral values from the ore.

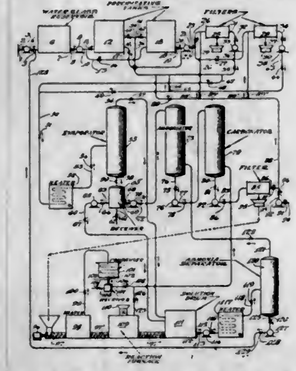
2,285,395
AERIAL OR AERIAL SYSTEM
Edward Cecil Cork, Ealing, London, and Joseph Lade Pawsey, Ickenham, England, assignors to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain
Application November 29, 1939, Serial No. 306,594
In Great Britain December 19, 1938
13 Claims. (Cl. 250—33)



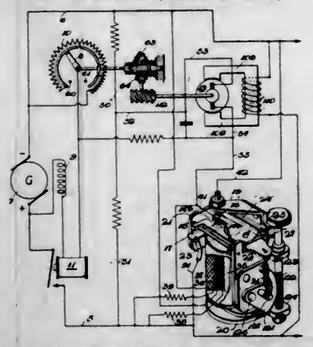
1. An aerial system for transmitting or receiving signals over a wide band of frequencies, said systems comprising one or more pairs of radiating elements mounted on an electrically conducting mast, the elements of each pair being disposed about the mast on opposite sides thereof and each element comprising a plurality of parallel co-planar conductors, said conductors being conductively connected at each end, the length of said conductors being of the order of an eighth of the mean operating wavelength.

2,285,396
MANUFACTURE OF CATALYSTS
Joseph D. Danforth and Charles L. Thomas, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application June 16, 1941, Serial No. 398,196
20 Claims. (Cl. 252—254)

2. A process for the manufacture of a relatively finely divided composite of silica hydrogel and alumina hydrogel which comprises mixing an aqueous solution of an alkali metal silicate with an aqueous solution of ammonium chloride and aluminum chloride whereby to precipitate said composite, separating the precipitated composite, reducing the volume of the residual solution by about one-half by evaporation of water and ammonia therefrom, subjecting a portion of the concentrated solution to treatment with ammonia and then with carbon dioxide evolved from subsequent steps to precipitate alkali metal bicarbonate, separating said alkali metal bicarbonate from residual solution, adding a solution of aluminum chloride to said last-named residual solution containing ammonium chloride and returning the mixed solution to further use in precipitating said composite, heating said alkali metal bicarbonate to drive off water and carbon dioxide and form the corresponding normal carbonate, reacting said normal carbonate with silica to produce alkali metal silicate and further amounts of carbon dioxide, adding the remaining portion of said concentrated solution and the water and ammonia from said evaporation to said alkali metal silicate to form a solution thereof, returning said carbon dioxide to treat said first-named portion of said concentrated solution, heating said last-named solution to remove ammonia for use in the treatment of the first-named portion of said concentrated solution and returning said alkali metal silicate solution after removal of ammonia to further precipitation treatment.

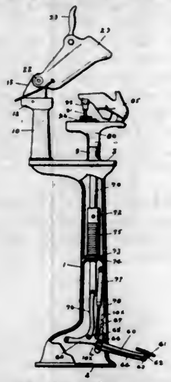


2,285,397
ELECTRICAL APPARATUS
Joseph W. Allen, East Orange, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 10, 1941, Serial No. 382,673
2 Claims. (Cl. 171—229)



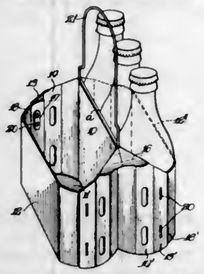
1. In combination with a generator and a rheostat for controlling the voltage of the former, an electric motor energizable from said generator to vary the resistance setting of said rheostat, means for producing such energization whenever necessary to maintain constant voltage across the generator terminals, said energizing means comprising two contacts leading to opposite sides of the generator circuit, and means for selectively connecting one or the other of said contacts in circuit with said motor to energize the latter with current from the generator circuit, said connecting means including an electro-magnet whose magnetic circuit is responsive to any deviation from normal voltage across said generator terminals, and an armature in the magnetic circuit of said electro-magnet, said armature being a part of said motor circuit.

2,285,398
APPARATUS FOR CEMENTING SOLES ON SHOES
Joseph Amico, Rochester, N. Y., assignor to Frank Keiper, Rochester, N. Y.
Application November 12, 1938, Serial No. 240,085
14 Claims. (Cl. 12—33)



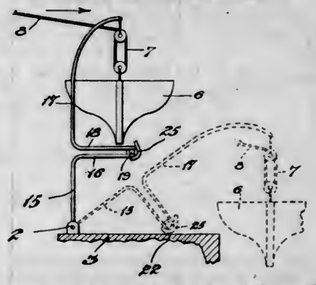
1. In an apparatus for cementing soles on shoes, a jack for supporting the shoe in inverted position, a pedestal placed opposite said jack, a block mounted to slide laterally on said pedestal, and an inverted head mounted to swing up and down on a horizontal pivot on said block and adapted to engage with the sole of the inverted shoe, said bearing block being mounted to slide back and forth on the pedestal to bring the head into proper contact with the sole of the inverted shoe.

2,285,399
BOTTLE HOLDER
Edwin Lewis Arneson, Morris, Ill.
Application November 16, 1938, Serial No. 240,621
8 Claims. (Cl. 229—52)



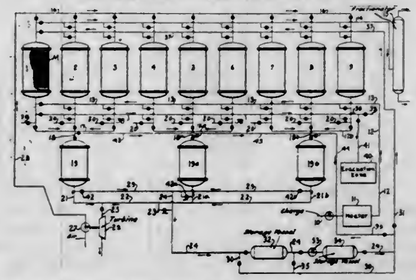
1. A container for the packaging of bottles and the like comprising a piece of sheet material shaped and creased to form a pair of inner panels which are conjoined at their upper margins, and outer panels, bottom panels and end walls, all arranged and connected to form collaterally disposed compartments at the outer sides of the inner panels, together with gussets extending between and connecting the adjacent end walls, the inner panels being provided at their upper portions with a handle whereby the container may be carried pendulously.

2,285,400
LIFEBOAT DAVIT OPERATING BY GRAVITY
Domenico Barricelli, Genoa, Italy
Application December 19, 1938, Serial No. 246,717
In Italy January 12, 1938
3 Claims. (Cl. 9—22)



1. A davit for launching a boat from the deck of a ship comprising, a rigid lever extending upwardly from the deck of the ship, hinge means pivotally connecting said lever to the deck of the ship at a point inwardly from the side of the ship, an arm carried by said lever extending substantially at a right angle to said lever, an auxiliary lever having a normally horizontal portion and a portion extending upwardly and outwardly from said horizontal portion, means pivotally connecting the horizontal portion of said auxiliary lever to said arm, means suspending the boat to the upper end of said auxiliary lever, and means limiting the outward pivoting movement of said auxiliary lever with respect to said arm.

2,285,401
CONTROLLING ATMOSPHERE WITHIN REACTION EQUIPMENT
John R. Bates, Swarthmore, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
Application April 6, 1939, Serial No. 266,282
21 Claims. (Cl. 196—105)



20. In apparatus for treating hydrocarbons, in combination, a plurality of converters, each providing a reaction chamber for containing a contact mass and arranged and adapted for use alternately on stream in the treatement of hydrocarbons and in regeneration of the mass in place, means for producing vacuum selectively connected to each of said converters, a vessel

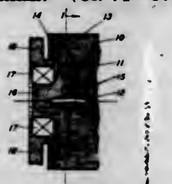
providing inlet and outlet connections and enclosing a reaction chamber for containing a combustion catalyst, valved conduits selectively connecting said converters with said inlet connection for conducting regeneration fumes from the former to said vessel, and conduit means including a manifold and valved branches selectively connecting said outlet connection and each of said converters for periodically conducting regeneration fumes issuing from said vessel to each of said converters to serve as purging fluid therein.

2,285,402
RECTIFICATION SYSTEM
Willard H. Bennett, Newark, Ohio, assignor to Slayter Electronic Corporation, a corporation of Ohio
Application May 22, 1940, Serial No. 336,678
4 Claims. (Cl. 175—363)



3. A high voltage rectifier comprising in combination with a source of alternating current, pairs of coacting electrodes, each pair of coacting electrodes including a multiplicity of emitting members and a target electrode, a connection between one side of said alternating current source and the multiplicity of emitting members of one of the pair of coacting electrodes, a connection between the same side of the source and the target electrode of the other pair of coacting electrodes, a connection through a condenser from the opposite side of the alternating current source and the target electrode of the first mentioned pair of coacting electrodes, a connection between the last mentioned side of said alternating current source through a condenser to the multiplicity of emitting members of the other pair of coacting electrodes, and an output circuit intermediate each of the condensers and the target and multiplicity of emitting members connected thereto.

2,285,403
DYNAMIC RECTIFIER
Frank Ellison Best, Indianapolis, Ind.
Application July 14, 1939, Serial No. 284,494
14 Claims. (Cl. 74—573)



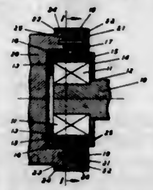
1. A dynamically self balancing structure comprising a two part rotor and a stator, said rotor being mounted relative to said stator by suitable bearing means, and an axially disposed permanently deformable pin connecting the two parts of said rotor.

2,285,404
MEANS FOR AND METHOD OF DYNAMICALLY BALANCING ROTARY MACHINE PARTS
Frank Ellison Best, Indianapolis, Ind.
Application September 25, 1940, Serial No. 358,323
7 Claims. (Cl. 308—236)

1. A dynamically self-balancing means, comprising a rotor and a stator; bearing means mounting said rotor relative to said stator; a deformable member uniting said bearing means and said rotor, said deformable member comprising an originally soft substance capable of hardening and setting in a predetermined period of time, said substance being retained in axiswise and annular alignment by suitable means and left free to make eccentric adjustments in its soft condition in response to the dynamic reactions between rotor and stator when said rotor is rotated at speeds such that the vibrations set up by the rotation of said rotor are in dissonance with the vibrations induced in the stator thereby, and hardened and set subsequently while so rotating, thus positioning and permanently retaining the machined axis of said bearing substantially coincident with the dynamic axis of said rotor.



2,285,405
DYNAMIC RECTIFIER
Frank Ellison Best, Indianapolis, Ind.
Application September 30, 1940, Serial No. 359,055
13 Claims. (Cl. 74—573)



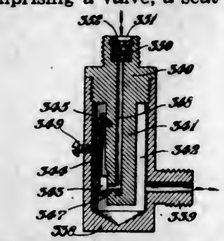
1. In a dynamically self balancing structure, relatively adjustable parts, heat fusible means rigidly connecting said parts at normal operating temperatures, and permanently deformable means adjustably connecting said parts and held rigid by said heat fusible material at normal operating temperatures.

2,285,406
PERMANENT MAGNET
Clarence George Bieber, Huntington, W. Va., assignor to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application June 17, 1940, Serial No. 340,997. In Canada April 18, 1940
8 Claims. (Cl. 75—123)

1. A hot worked alloy capable of developing magnetic properties including high coercive force and high remanence suitable for permanent magnets comprising about 5% to 9.5% aluminum, 1% to 3% titanium, 20% to 30% nickel, and the balance iron.

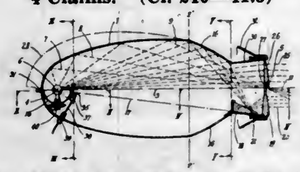
2,285,407
LUBRICATION
Joseph Bijur, deceased, late of New York, N. Y., by George Bijur, executor, New York, N. Y., assignor to Auto Research Corporation, a corporation of Delaware
Application May 14, 1940, Serial No. 335,112
4 Claims. (Cl. 184—7)

1. In a high restriction flow metering outlet, lubricant distributing system having a central lubricant reservoir and pump and a substantially completely lubricant-filled branched distributing piping system having a small bore insufficient to permit counter-current flow of air and lubricant and leading to a plurality of spaced and distributed bearings to receive small, yet accurately proportioned, quantities of lubricant, a high restriction flow metering fitting having a tremendously greater restricting effect than the piping system and the bearings so as in itself to predominantly control the proportionment of lubricant comprising a valve, a seat for said valve,



resilient means pressing said valve against said seat and adjustable means to regulate the seating pressure of said spring, said valve serving both to check return flow and restricting forward flow to a predetermined degree, one of said fittings being provided for each branch of the system leading to a bearing to be lubricated, and said fitting offering a substantially constant restricting effect without variation due to variation in pressure of the lubricant supplied to said system by said pump.

2,285,408
HEADLIGHT
Frederic D. Blauvelt, Upper Montclair, N. J.
Application February 9, 1940, Serial No. 318,105
4 Claims. (Cl. 240—41.3)



1. A headlight comprising a singly truncated ellipsoidal reflecting surface having an axis and on said axis a first and second focus, a light source substantially at said first focus, a cup-shaped reflector on one side of said axis and having its center substantially at said first focus, a doubly truncated, ellipsoidal reflecting surface contiguous to said singly truncated reflecting surface having an axis forwardly and downwardly inclined and on said axis a first focus coincident with the first mentioned first focus and a second focus independent of the first mentioned second focus and a reflector at said last mentioned second focus adapted to project forwardly rays reflected thereon from said doubly truncated ellipsoidal reflecting surface.

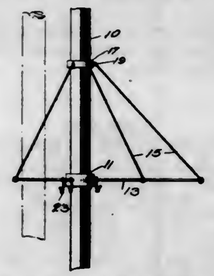
2,285,409
PEST CONTROL
Euclid W. Bousquet and Ellsworth K. Ellingboe, Wilmington, and Hubert G. Guy, Newark, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 26, 1941, Serial No. 380,616
12 Claims. (Cl. 167—33)

1. A pest control composition containing as an essential active ingredient a 1,2,4-dithiazole.

2,285,410
PEST CONTROL
Euclid W. Bousquet, Wilmington, and Hubert G. Guy, Newark, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 27, 1941, Serial No. 380,768
17 Claims. (Cl. 167—33)

1. A pest control composition containing as an essential active ingredient a 1,2,4-thiadiazole.

2,285,411
CLOTHES HANGER SUPPORT
Myles W. Brewster, United States Army
Application October 1, 1941, Serial No. 413,098
4 Claims. (Cl. 211—107)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

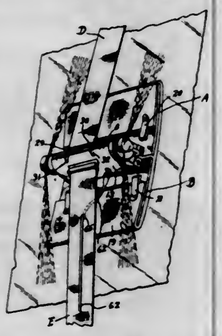


1. In a clothes hanger supporting device adapted to be secured to and supported by a vertical tentpole, the combination of a hanger rod supporting ring including a plurality of radially disposed threaded openings, said ring being of a size adapted to fit loosely over a tentpole; a plurality of straight clothes supporting rods, each having a threaded inner end portion adapted to be threaded through the aforementioned ring and into clamping relationship with material of the tentpole and to extend outwardly in a horizontal direction and in radial arrangement with respect to the tentpole; a chain supporting ring comprising a metal ring of a diameter approximating the diameter of the clothes rods supporting ring, and spaced apart vertically above said clothes supporting ring, said chain supporting ring being provided with a plurality of radial thread openings corresponding in number and location with the threaded openings of the lower ring; a plurality of clamping hooks, each of said clamping hooks being arranged in radial position with respect to said chain supporting ring and arranged to be threaded through the orifices in the chain supporting ring and into clamping engagement with the tentpole; and a chain interconnecting each of said clamping hooks with the outer extremity of one of the clothes hanger supporting rods.

2,285,412
ATOMIZER TYPE WINDOW CLEANING APPLIANCE
Clarence H. Caldwell, Oak Park, Ill.
Application August 17, 1939, Serial No. 290,532
14 Claims. (Cl. 15—126)

1. A window cleaning device comprising a wiper member, tape means connected to said member and adapted to extend around a window sash whereby the member may be moved over the window pane on the opposite side thereof from

the operator, a cleaning liquid reservoir carried by said wiper member, and means carried by said tape means and movable therewith and con-



trollable by the operator from inside the window for discharging liquid from said reservoir onto the window pane.

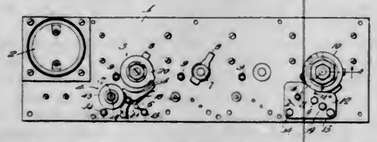
2,285,413
MANUFACTURE OF PYRROLIDINES
George H. Coleman, Iowa City, Iowa
No Drawing. Application August 2, 1940, Serial No. 350,109
8 Claims. (Cl. 260—313)

1. In the method of making a pyrrolidine, the steps which comprise reacting a compound having the general formula:

$$R{-}N{-}R_1$$
$$\quad\;|$$
$$\quad Cl$$

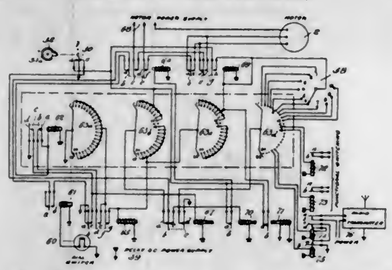
wherein R represents a radical selected from the group consisting of acyl, aroyl and arylsulfonyl radicals and R_1 represents an aliphatic hydrocarbon radical containing at least 4 carbon atoms and having a hydrogen on the fourth carbon atom from the nitrogen atom, with sulfuric acid, neutralizing the reaction mixture and separating therefrom the thus formed pyrrolidine.

2,285,414
CONTROL SYSTEM AND APPARATUS
Arthur A. Collins, Cedar Rapids, Iowa
Application November 8, 1939, Serial No. 303,491
11 Claims. (Cl. 192—142)



1. Shaft positioning apparatus comprising, in combination, a shaft to be positioned, a torque limiting drive for said shaft, a stop-ring drum assembly mounted on the shaft to be positioned, a cam drum assembly, a series of pawls disposed between said stop-ring drum assembly and said cam drum assembly, each pawl being individually actuated by a separate cam for engagement with a corresponding individual stop ring, and means for driving said cam drum assembly and said stop-ring drum assembly in a predetermined sequence of operations for actuating a selected pawl and for moving the corresponding stop ring into engagement therewith for setting said shaft in desired angular position.

2,285,415
MOTOR CONTROL SYSTEM
Arthur A. Collins, Cedar Rapids, Iowa
Original application November 8, 1939, Serial No. 303,491. Divided and this application October 16, 1940, Serial No. 361,465
7 Claims. (Cl. 172—239)



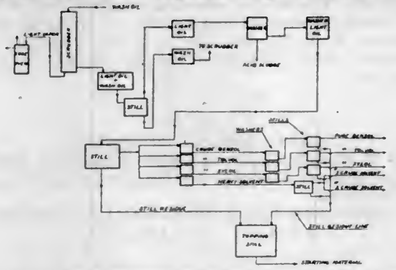
1. An electric control system comprising selector switch means, a reversible electric motor, a continuously rotatable tap switch adjustable by rotation in one direction only, means for driving said tap switch by said motor in the forward driving direction thereof, means for operating said motor in the forward driving direction, means including a connection with a specific contact in said selector switch means and said tap switch for reversing said motor and leaving said tap switch in adjusted position, and a limit switch connected with the last said means and actuated by said motor in the reverse driving direction thereof for permitting a predetermined functional rotation of said motor in the reverse driving direction and terminating the operation of said motor at the conclusion thereof.

2,285,416
COUMARONE-INDENE RESIN
Frank W. Corkery, Crafton, and Ralph H. Bailey, Clairton, Pa., assignors to Pennsylvania Industrial Chemical Corporation, a corporation of Pennsylvania
No Drawing. Application November 25, 1938, Serial No. 242,277
8 Claims. (Cl. 260—81)

1. The herein described coumarone-indene mastic tile resin having a preponderant content of penetration-resistant coumarone-indene polymers composed of at least seven monomeric units, a substantial content of plasticizing coumarone-indene dimers, and a negligible content of intermediate coumarone-indene polymers of insignificant penetration-resistant and plasticizing properties.

2,285,417
COUMARONE-INDENE RESIN
Frank W. Corkery, Crafton, Pa., assignor to Pennsylvania Industrial Chemical Corporation, a corporation of Pennsylvania
Application February 9, 1940. Serial No. 318,067.
5 Claims. (Cl. 260—81)

1. The herein described blended coumarone-indene resin composite of still residue resin derived primarily by purification and distillation of the still residue resultant from the acid purification, neutralization and distillation of the light oil derived in the by-product coking of coal consisting essentially of coumarone-indene dimers and coumarone-indene polymers in the 3rd, 4th, 5th and 6th stages of polymerization, with added high-melting coumarone-indene resin consisting of polymers in higher than the 10th stage of polymerization; in the blend the proportioning being approximately 25% to 40% dimers, 25% to 40% 3rd, 4th, 5th and 6th stage polymers and 20% to 40% added high melting resin, the melt-



ing point and proportional inclusion of the added high-melting resin within the given limits being such as to impart to the blend a melting point approximately as high as 95° C.

2,285,418
CONDENSATION PRODUCTS OF A UREA, AN ALIPHATIC ALDEHYDE AND A CHLORINATED ACETAMIDE
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application August 9, 1939, Serial No. 289,277
13 Claims. (Cl. 260—70)

1. A composition of matter comprising a condensation product of ingredients comprising a urea, an aliphatic aldehyde and a chlorinated acetamide.

2,285,419
ALIPHATIC AMINES
Joseph B. Dickey, Rochester, N. Y., and Arzy R. Gray, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application March 22, 1939, Serial No. 263,525
11 Claims. (Cl. 260—584)

1. A process for preparing alkoxy amines, which comprises heating and reacting an ethylene glycol ether with ammonia at a temperature between about 125–300° C. in the presence of an amination catalyst.

11. The process which comprises reacting a compound having the formula:

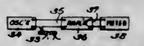
$$R{-}OCH_2CH_2OH$$

wherein R is a member from the group consisting lower alkyl and lower alkoxy alkyl, with ammonia in the presence of an amination catalyst, and conducting the reaction at a temperature between 160° C. and 350° C.

2,285,420
VINYL RESIN PLASTIC COMPOSITION
Arthur K. Doolittle, South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application February 16, 1939, Serial No. 256,727
9 Claims. (Cl. 260—36)

1. A composition of matter essentially composed of a vinyl resin intimately associated with an acylated ricinoleic acid ester of one of the group consisting of alkylene and polyalkylene glycol monoaryl and monoalkyl ethers.

2,285,421
HUMIDITY VARIABLE RESISTANCE
Francis W. Dunmore, Washington, D. C., assignor to Government of the United States, as represented by the Secretary of Commerce, and his successors in office
Application June 8, 1940, Serial No. 339,530
16 Claims. (Cl. 177—351)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

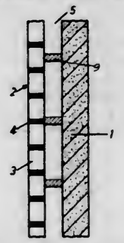


12. A humidity responsive system comprising an electron tube generator of alternating current, an electron tube amplifier, a humidity responsive element comprising a supporting area of high electrical resistance non-hygroscopic material, bifilar conductors carried by said area and a hygroscopically sensitive film in electrical contact with said bifilar conductor, a control circuit for said amplifier powered by the output of said generator, said humidity responsive element being connected in said control circuit, and translating means operated by the output of said amplifier.

2,285,422
EMULSION
Albert K. Epstein and Benjamin R. Harris, Chicago, Ill.
No Drawing. Application February 12, 1940, Serial No. 318,592
16 Claims. (Cl. 252—312)

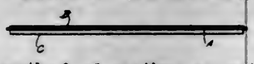
1. A composition of matter, in the form of an emulsion of an organic water-repellant material and aqueous material, including a proportion of a glycerol, a member of the group consisting of sugars and sugar alcohols, and a member selected from the group consisting of sugars and sugar derivatives only partially esterified with an aliphatic acid containing at least eight carbon atoms.

2,285,423
SOUND ABSORBING MATERIAL
Wilhelm Esser, Bergedorf, near Hamburg, Germany
Application August 9, 1938, Serial No. 223,808
In Germany August 10, 1937
3 Claims. (Cl. 154—44)



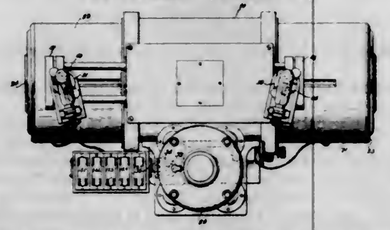
1. A sound-absorbing structure comprising a pair of layers of different sound absorbing characteristics, each consisting of inorganic fibers in mat formation, whereby they are porous throughout, the outer one of said layers having perforations extending therethrough and spaced apart distances less than their cross-sectional dimensions, the other of said layers having a continuous sound-incident surface that underlies said perforated layer, said layers being arranged in parallelism and spaced apart, and partitions within and subdividing the spaces between said layers.

2,285,424
METHOD OF MANUFACTURING FOILLIKE LAYERS
Eckard Fenner, Berlin, Germany, assignor to Süddeutsche Apparate-Fabrik G. m. b. H., Nuremberg, Germany, a company
Application November 28, 1939, Serial No. 306,519
In Germany December 14, 1938
4 Claims. (Cl. 117—110)



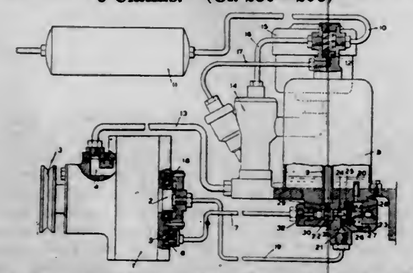
4. The method of coating an article with a foil-like layer and which consists in producing this layer as a coherent substance applied to an auxiliary body capable of sublimation, then placing such body with the layer thereon onto the said article, so that this layer is spaced from such article by said body, and finally sublimating this body in a vacuum.

2,285,425
ANNOUNCING MACHINE AND SYSTEM
John L. Franklin, Atlanta, Ga.
Application February 28, 1941, Serial No. 381,203
34 Claims. (Cl. 179—6)



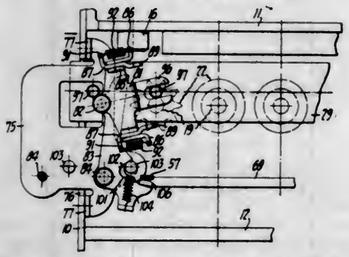
1. An announcing machine comprising, in combination: a revoluble record carrying cylinder; a plurality of sound records carried by said cylinder, the initial extremities of said records in circumferentially spaced relation at one end of said cylinder; means to drive said cylinder; and automatic means operated at each completion of a predetermined number of revolutions of said cylinder to cause a partial revolution thereof in amount equal to the distance of the spacing of said record extremities.

2,285,426
OILING SYSTEM FOR COMPRESSORS
Walter R. Freeman, Clayton, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application January 31, 1941, Serial No. 376,807
5 Claims. (Cl. 230—206)



1. In apparatus of the class described, a fluid compressor, an oil reservoir connected by a conduit with the compressor for lubricating the moving parts thereof, a conduit for conveying the exhausted compressed fluid from the compressor, a valve for cutting off the flow of oil between the reservoir and the compressor, and means comprising a movable member so associated with the fluid conveying conduit that it will be acted on and moved by the discharged compressed fluid flowing through the conduit and thereby cause the valve to be moved to open position.

2,285,427
CALCULATING MACHINE
Carl M. Friden, Oakland, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Application July 4, 1939, Serial No. 282,768
8 Claims. (Cl. 235—137)

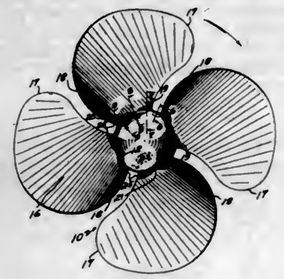


1. In a calculating machine, a shiftable carriage, numeral wheels on said carriage, each numeral wheel having a numeral wheel gear associted therewith, transfer levers on said carriage and cooperatively related with said numeral wheels for movement in response to passing of the associated numeral wheel from 9 to zero or zero to 9, a transfer actuating lever mounted for movement in the machine in a direction substantially parallel to the direction of shifting movement of said numeral wheel gears, a transfer setting lever pivotally mounted on said transfer actuating lever for movement in a direction substantially transversely to the direction of movement of said numeral wheel gears, a pair of pawls carried by said transfer setting lever and positioned at opposite sides of a numeral wheel gear aligned therewith, and means for selectively engaging said pawls with the said aligned numeral wheel gear, said transfer actuating lever being operable by the aligned one of said transfer levers upon movement of the associated lower order numeral wheel from 9 to zero or zero to 9 to effect a transferring operation by movement of the pawl engaged with the said aligned numeral wheel.

2,285,428
FAN IMPELLER
Marshall H. Frisbie, Hamden, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a corporation of Maryland
Application June 8, 1939, Serial No. 277,984
9 Claims. (Cl. 170—159)

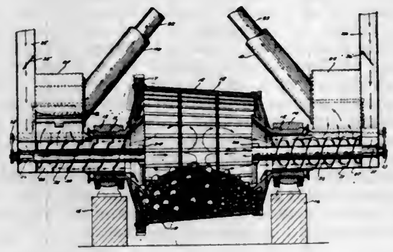
1. In a fan, an air impeller including in combination, a multiple blade sheet composed of a central substantially flat disc-like web with at least two air fanning blades comprising continuations of said web outstanding radially from the perimeter thereof said blades being warped to impart air fanning pitch to the blade and said web merging into said warped blades at the root and being the only portion of said blade sheet connecting said multiple blades, and a nose cap for preventing distortion of said web from a true plane thereby to assist in holding said blades in

fixed mutual relationship said nose cap terminating in edges occupying said plane and abutting



against the surface of said web at said perimeter of the latter closely adjacent said warped root portions of the blades.

2,285,429
PULVERIZATION
Martin Frisch, New York, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application May 26, 1938, Serial No. 210,091
10 Claims. (Cl. 83—9)

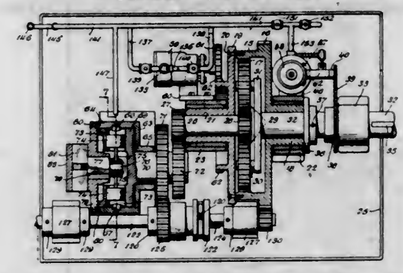


1. Pulverizing apparatus comprising a rotatable drum, pulverizing means in the drum, means for separately feeding material to be pulverized and air to the drum at substantially oppositely disposed points thereof through separate passages, and means for withdrawing pulverized material entrained in air from the drum at said substantially oppositely disposed points thereof through the passages through which material is fed to the drum.

2,285,430
LITHOGRAPHIC INK
Albert E. Gessler, New York, N. Y., Everett F. Carman, Dumont, N. J., and Louis F. Engelhart, Rockville Centre, N. Y., assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio
No Drawing. Application June 30, 1937, Serial No. 151,174
4 Claims. (Cl. 106—32)

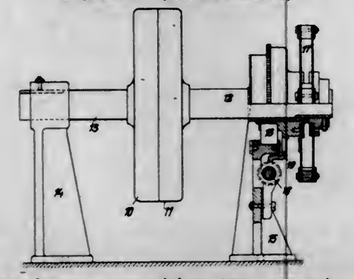
1. A lithographic printing ink comprising pigment dispersed in a vehicle comprising a solvent consisting essentially of a petroleum fraction with a dimethyl sulfate value less than 4.0, which fraction is substantially non-volatile at about 90° F., but evaporates rapidly when exposed to a temperature of 1000°–2000° F. for a few seconds, and sufficient resin in said solvent to give the consistency of ordinary lithographic printing inks.

2,285,431
VARIABLE SPEED APPARATUS
Ernest Grossenbacher, Fajardo, P. R.
Application July 19, 1939, Serial No. 285,296
3 Claims. (Cl. 74—293)



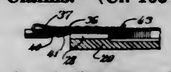
1. In a variable speed apparatus, the combination of a planetary drive, an output shaft operatively controlled by said planetary drive, a speed regulating shaft operatively connected with said planetary drive, a speed variable displacement pump operatively connected with said speed regulating shaft, an oil circuit connected with said pump, an auxiliary pump connected with a source of oil supply and with said oil circuit for supplying oil thereto, said auxiliary pump being operatively connected with said planetary drive, an input shaft adapted for operative connection with a prime mover, and operatively connected with said planetary drive, gearing including a clutch pinion loosely mounted on said input shaft whereby the latter may be operatively connected with said speed variable displacement pump, a clutch whereby said clutch pinion is operatively connected with and disconnected from said input shaft, a control shaft, a cam gear loosely mounted on said last-named shaft and including worm gear teeth on a portion of its periphery and a depressed cam at another portion thereof, a bell crank lever, a roller carried by said bell crank lever in rolling engagement with the periphery of said cam gear in co-operative relation to said depressed cam, means controlled by said bell crank lever for operating said clutch to connect and disconnect the clutch pinion with and from said input shaft, a cam fixed on said control shaft, a lug projecting from the face of said cam gear in the path of said cam for operating said cam gear, a regulating shaft having a worm screw arranged to mesh with the worm gear teeth of said cam gear, an operating hand wheel fixed on said worm shaft, a pivotally mounted bearing bracket for said regulating shaft, means including an oil pressure controlled diaphragm for pivotally adjusting said bearing bracket to shift the worm screw into and out of mesh with the worm gear teeth of said cam gear, a stroke adjusting slide operatively connected with said control shaft for adjusting the displacement of said variable displacement pump to thereby control the operation of said planetary drive and the output shaft, a governor operatively connected with said output shaft, a governor valve in said oil circuit controlled by said governor and operated thereby in dependence upon the speed of said output shaft to develop and control resistance to the action of the variable displacement pump whereby the operation of the output shaft is controlled independently of variations in the speed of the input shaft, a three-way stop cock in the oil circuit for selectively directing the oil therein to said governor valve or through the circuit, and a two-way stop cock for controlling the flow through the circuit.

2,285,432
CONDENSER
Fritz Gutzmann, Schoneiche, near Berlin, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application May 25, 1939, Serial No. 275,666
In Germany February 12, 1938
1 Claim. (Cl. 175—41.5)



A condenser comprising two ceramic plates ground to each other and each having a substantially plane surface, a first axle rigidly mounted and supporting one of said plates, a rotatable second axle supporting the other of said plates, and a mounting for said second axle comprising spring means for pressing the plane surfaces of said plates together and self-aligning ball bearing means for allowing angular adjustment of the axis of said second axle with respect to the plane of the surface of the plate mounted on said first axle.

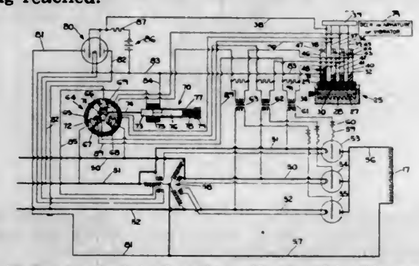
2,285,433
DEVICE FOR THREADING HAIRPINS OR THE LIKE UPON CARDS
Walter H. Hermsdorf, Chicago, Ill., assignor to Chain Store Products Corporation, Chicago, Ill., a corporation of Delaware
Application June 28, 1940, Serial No. 342,918
8 Claims. (Cl. 163—8)



1. A device for facilitating the threading of one leg of a hairpin-like article through an aperture in a relatively flat card constructed of bendable material which comprises, two adjacent members relatively movable in shears fashion with respect to each other, means for mounting an apertured card upon one of said members with the major portion of said card co-planar with said member and with said aperture adjacent the line of shear between said members, means for moving said members in shears fashion whereby the card is distorted to dispose a portion of the defining edge of said aperture in the plane of the major portion of the card and another portion of said edge in a plane oblique to the plane of the major portion of the card.

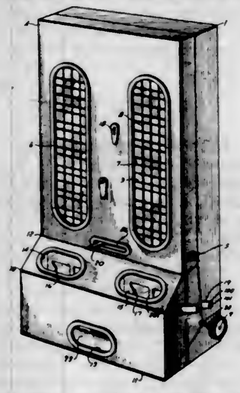
2,285,434
APPARATUS FOR OPERATING VIBRATORY CONVEYERS OR MOTORS
Harker H. Hittson, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application October 22, 1938, Serial No. 236,544
13 Claims. (Cl. 172—240)

5. In an electrical system, the combination with a vibratory electro-magnetic motor, of a source of current, means for adjusting the current flow to said motor to maintain its amplitude substantially constant comprising, a current controller, means independent of said motor normally urging said controller to current increasing position, and means including a switch actuated responsive to the amplitude of vibration of said motor to urge said controller to a current decreasing position upon a predetermined amplitude of vibration being reached.



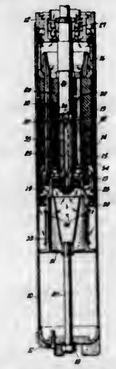
7. In an electrical system, the combination with a vibratory motor including a vibratory system having a natural period of vibration, of a power circuit for said motor including gaseous electronic relay means for conducting and controlling a flow of current from a source to said motor and being so constructed and arranged that it is capable of delivering continuous current thereto, means for controlling the flow of current through said relay means, means responsive to the frequency of vibration of said motor as determined by the natural period of vibration of said motor for controlling said control means to cause current impulses to flow to said motor at a frequency in synchronism with said natural period of vibration, and means responsive to the amplitude of vibration of said motor supplementary to said frequency responsive means constructed and arranged to exercise a further control on said control means to maintain the amplitude of vibration of said motor substantially constant, said last named means including means for varying a voltage applied to said control means.

2,285,435
VENDING MACHINE
Charles R. Holcomb, Jr., Kansas City, Mo.
Application October 13, 1938, Serial No. 234,767
12 Claims. (Cl. 312—97)



1. In a vending machine of the character described, a plurality of movable conveyors each having a plurality of pockets adapted to contain articles to be dispensed therefrom, an article dispensing mechanism, means for shifting said article dispensing mechanism into alignment with said conveyors respectively, means for moving said conveyors to align a desired pocket thereof with said article dispensing mechanism, and means for actuating said mechanism to dispense an article from the desired pocket of the conveyor aligned with said dispensing mechanism.

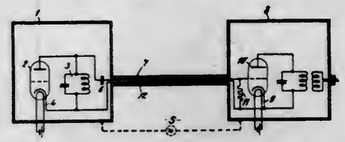
2,285,436
MOTOR AND COOLING MEANS THEREFOR
Vaino A. Hoover, Los Angeles, Calif., assignor to Byron Jackson Co., Huntington Park, Calif., a corporation of Delaware
Application July 30, 1940, Serial No. 348,393
7 Claims. (Cl. 172—36)



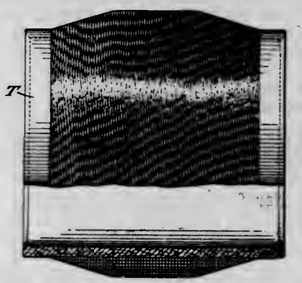
1. A dynamo-electric machine comprising a stator having a rotor opening; a rotor in said opening and comprising a rotor shaft, a laminated core surrounding said shaft, and circumferentially spaced rotor bars extending longitudinally through said core, said core cooperating with said stator opening in defining a gap; and means for discharging a cooling medium into said gap intermediate the ends thereof, comprising a pumping element clamped between a pair of adjacent laminations of said core, said pumping element including an annular hub portion surrounding said shaft and having a plurality of circumferentially spaced fluid passageways extending radially therethrough and rib portions extending radially between said rotor bars in spaced relation thereto whereby said rib portions and said rotor bars define fluid passageways communicating with the fluid passageways in said hub portion; and conduit means extending from a source of cooling medium to the radially inner ends of said first-named fluid passageways.

2,285,437
HIGH FREQUENCY SYSTEM
Helmuth Johannson, Berlin, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application March 3, 1938, Serial No. 193,659
In Germany March 6, 1937
3 Claims. (Cl. 250—16)

1. A multi-stage high frequency system of the type comprising first and second vacuum tubes each having an indirectly heated cathode, a grid and an anode, first and second separate conductive chambers respectively enclosing said tubes, a conductive conduit extending between said chambers and connected therewith, high frequency coupling means of the condenser-and-resistance coupling type including an interstage lead extending through said conduit for transferring high frequency energy from the anode of said first tube to the grid of said second tube, characterized in that at least one of said cathodes is electrically separate from the corresponding conductive chamber and that a cathode potential lead distinct from said conductive chambers is provided which extends through said conduit to connect said two cathodes together.



2,285,438
METHOD OF WINDING STRAND MATERIALS AND PACKAGE PRODUCED THEREBY
Charles H. Jones, Warwick, R. I., assignor to Universal Winding Company, Boston, Mass., a corporation of Massachusetts
Application October 30, 1940, Serial No. 363,547
4 Claims. (Cl. 242—159)

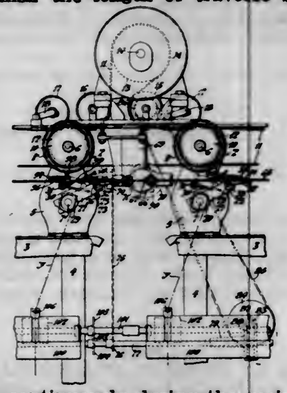


1. An improved method of winding synthetic yarns and other strand materials consisting in traversing the yarn longitudinally of the axis of a substantially cylindrical core to deposit it in helical turns or convolutions disposed at varying angles throughout the winding with the traverses of yarn alternately increasing from a minimum extent to a maximum extent but with the minimum and maximum extent of traverse remaining constant throughout the winding, and discontinuing the winding when the mass of material is of relatively small diameter with respect to the diameter of the core so that said mass is formed with gradually tapered portions at each end substantially equal in length to a central cylindrical portion with the taper feathered to a thin edge at the ends of the package to avoid building the ends up in planes perpendicular to the axis of the core.

2,285,439
WINDING MACHINE
Charles H. Jones, Warwick, R. I., assignor to Universal Winding Company, Boston, Mass., a corporation of Massachusetts
Application December 12, 1940, Serial No. 369,895
12 Claims. (Cl. 242—43)

1. In a winding machine, a rotary winding spindle, a traverse-rod reciprocable opposite said winding spindle, a thread-guide reciprocated by said traverse-rod and adapted to be shifted longitudinally thereof, and means for shifting said thread-guide first outwardly and then inwardly

along the traverse-rod to alternately increase and diminish the length of traverse stroke of



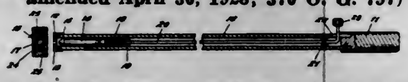
the guide continuously during the reciprocation of the traverse-rod.

2,285,440

DEVICE FOR HANDLING CAPSULES CONTAINING RADIOACTIVE SUBSTANCES

Herman F. Kaiser, Washington, D. C.

Application January 22, 1941, Serial No. 375,418
9 Claims. (Cl. 250—106)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A holder for a capsule containing a radioactive substance, comprising a spacer rod having a metallic end element movably mounted thereon at one end thereof for engagement with a metallic element forming a part of said capsule, one of said elements being magnetized to magnetically attract the other of said elements, whereby said capsule may be supported and transported by said rod at a safe distance from the operator, and means for retracting the element on the rod to release the capsule therefrom.

2,285,441

WITHDRAWN

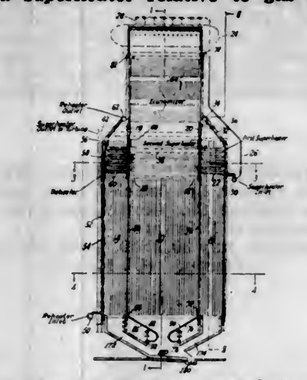
2,285,442

VAPOR GENERATOR

Howard J. Kerr, Westfield, N. J., assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey

Application September 22, 1938, Serial No. 231,124
9 Claims. (Cl. 122—235)

8. In a water tube steam boiler installation a plurality of adjoining similar furnaces, water tubes connected into the boiler circulation and arranged as a wall separating said furnaces, pulverized fuel burners similarly arranged with respect to said furnaces and firing them with downward projection of fuel into the furnaces, a first superheater including tubes heated by the gases rising in one of the furnaces, a second superheater connected to the first superheater for a series flow of steam therethrough and heated by the gases from a second of said furnaces, and means providing convection heat absorbing surfaces positioned in a gas pass leading from a superheater, said water cooled partition tubes having upper parts extending to a position beyond a superheater relative to gas flow so



that gases of the superheater pass between said upper parts.

2,285,443

METHOD OF MAKING ZIRCONIUM NITRATE

Charles J. Kinzie and Donald S. Hake, Niagara Falls, N. Y., assignors to The Titanium Alloy Manufacturing Company, New York, N. Y., a corporation of Maine

No Drawing. Application June 29, 1940, Serial No. 343,262
4 Claims. (Cl. 23—102)

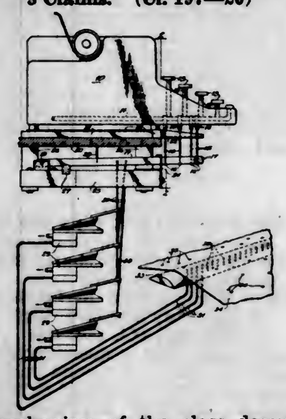
2. The method of making zirconium nitrate comprising reacting an aqueous solution of nitric acid with a material taken from the class consisting of zirconium tetrachloride and zirconium oxychloride, and evaporating the solution thus obtained to dryness.

2,285,444

LINK CONNECTION FOR AUTOMATIC TYPEWRITERS

Henry W. Kloid, Chicago, Ill., assignor to American Automatic Typewriter Company, Chicago, Ill., a corporation of Illinois

Application June 14, 1940, Serial No. 340,422
5 Claims. (Cl. 197—20)



5. In mechanism of the class described, the combination of a typewriter having a bank of key levers, automatic mechanism for initiating movements in conformity with a record registered on a movable record strip, a bank of sub-

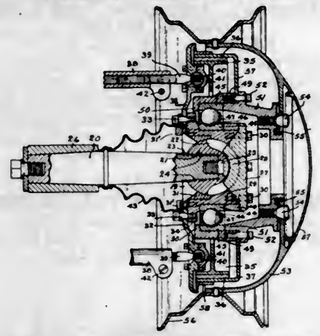
levers adapted to individually register with the respective key levers of the typewriter and having their free ends positioned in vertical alignment below the associated key levers, depending links carried by the key levers and adapted to engage with the free ends of the respective sub-levers, means for supporting the typewriter in position to bring the depending links into individual registry with the associated sub-levers and adapted to guide the typewriter in fore and aft movements from and to its intended position in a plane substantially parallel to the plane of the bank of sub-levers, thereby permitting convenient disengagement and reengagement of the links with the sub-levers, and power connections between the individual sub-levers and the automatic mechanism for imparting movements to the sub-levers in conformity with the record registered on the movable record strip.

2,285,445

MOTOR VEHICLE STEERING STABILIZER

Alwin Kost, Portland, Oreg., assignor to Kost Incorporated, Portland, Oreg., a corporation of Oregon

Application October 2, 1939, Serial No. 297,447
3 Claims. (Cl. 280—96.3)



1. A motor vehicle wheel mounting comprising an axle member non-rotatably supported; a ball member fixedly and adjustably secured to an end portion of said axle member whereby its angular position on said axle member may be adjusted; a groove extending across the outer end portion of said adjustable ball and normally inclined as respects both the vertical and horizontal; a non-rotatable wheel hub member mounted for angular movement on said ball; a tooth member rigid with said wheel hub operable in said groove controlling the direction of angular movement of said wheel hub member relative to said ball and adapted to impart to the wheel a banking incline relative to the vertical when said wheel is angularly moved on said ball for steering purposes; steering means connected with said wheel hub member to impart angular movement thereto; and a wheel rotatably mounted on said wheel hub member.

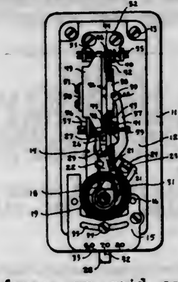
2,285,446

TWO STAGE THERMOSTAT

Carl G. Kronmiller, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application November 22, 1939, Serial No. 305,648
14 Claims. (Cl. 200—139)

1. In a device of the character described, an armature, a substantially frictionless pivot for said armature about which it is adapted to rotate, magnetic means cooperating with said armature at spaced points, said pivot being nearer one of said points than the other, so that said magnetic means will exert relatively differ-



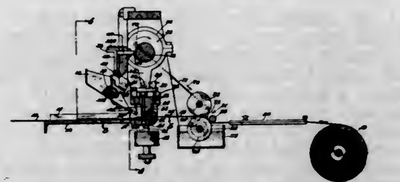
ent rotative forces on said armature at said points, and means for moving said pivot toward and away from said magnetic means.

2,285,447

MEANS FOR APPLYING REINFORCEMENTS

Malvin Lichter, New Rochelle, N. Y.

Application December 13, 1939, Serial No. 309,037
13 Claims. (Cl. 154—1)



1. An apparatus for applying a reinforcement comprising a tape to an end of a display sheet, said apparatus comprising a bed for said display sheet and guides therefor, means for feeding a continuous web having an adhesive surface so that an end margin thereof projects over the edge of said display sheet, and means for simultaneously cutting off said end margin of said continuous web and pressing said marginal portion on said display sheet.

2,285,448

PREPARATION OF POLYHYDRIC ALCOHOLS

Donald John Loder, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 30, 1937, Serial No. 171,891
2 Claims. (Cl. 260—635)

1. A process for the production of ethylene glycol which comprises hydrogenating an aliphatic alcohol ester of a partially dehydrated glycolic acid while in contact with a hydrogenation catalyst at a temperature between 125 and 325° C. and a pressure in excess of 400 atmospheres.

2,285,449

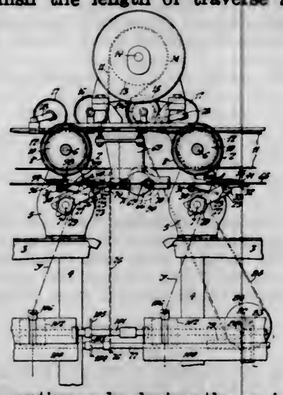
METHOD OF PRODUCING SOLS AND AEROGELS

Morris D. Marshall, Allston, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application May 8, 1939, Serial No. 272,404
14 Claims. (Cl. 252—306)

3. The method of preparing a stable organo-aqua sol composed of a colloidal inorganic oxide,

along the traverse-rod to alternately increase and diminish the length of traverse stroke of



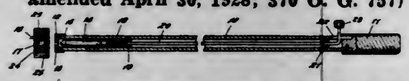
the guide continuously during the reciprocation of the traverse-rod.

2,285,440

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Herman F. Kaiser, Washington, D. C.

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2,285,441

WITHDRAWN

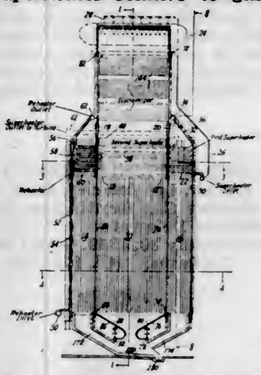
2,285,442

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Howard J. Kerr, Westfield, N. J., assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey

Application September 22, 1938, Serial No. 231,124
9 Claims. (Cl. 122—235)

8. In a water tube steam boiler installation a plurality of adjoining similar furnaces, water tubes connected into the boiler circulation and arranged as a wall separating said furnaces, pulverized fuel burners similarly arranged with respect to said furnaces and firing them with downward projection of fuel into the furnaces, a first superheater including tubes heated by the gases rising in one of the furnaces, a second superheater connected to the first superheater for a series flow of steam therethrough and heated by the gases from a second of said furnaces, and means providing convection heat absorbing surfaces positioned in a gas pass leading from a superheater, said water cooled partition tubes having upper parts extending to a position beyond a superheater relative to gas flow so



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2,285,443

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No Drawing. Application June 29, 1940, Serial No. 343,262
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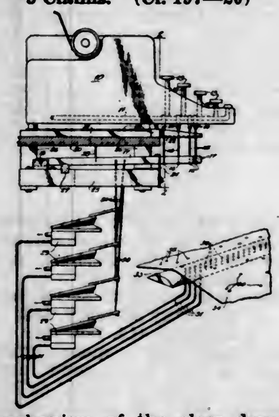
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2,285,444

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5. In mechanism of the class described, the combination of a typewriter having a bank of key levers, automatic mechanism for initiating movements in conformity with a record registered on a movable record strip, a bank of sub-

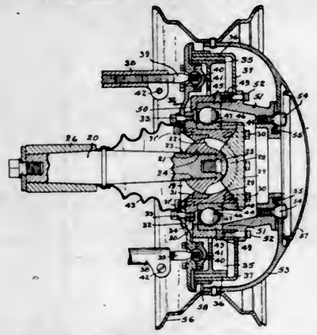
levers adapted to individually register with the respective key levers of the typewriter and having their free ends positioned in vertical alignment below the associated key levers, depending links carried by the key levers and adapted to engage with the free ends of the respective sub-levers, means for supporting the typewriter in position to bring the depending links into individual registry with the associated sub-levers and adapted to guide the typewriter in fore and aft movements from and to its intended position in a plane substantially parallel to the plane of the bank of sub-levers, thereby permitting convenient disengagement and reengagement of the links with the sub-levers, and power connections between the individual sub-levers and the automatic mechanism for imparting movements to the sub-levers in conformity with the record registered on the movable record strip.

2,285,445

MOTOR VEHICLE STEERING STABILIZER

Alwin Kost, Portland, Oreg., assignor to Kost Incorporated, Portland, Oreg., a corporation of Oregon

Application October 2, 1939, Serial No. 297,447
3 Claims. (Cl. 280—96.3)



1. A motor vehicle wheel mounting comprising an axle member non-rotatably supported; a ball member fixedly and adjustably secured to an end portion of said axle member whereby its angular position on said axle member may be adjusted; a groove extending across the outer end portion of said adjustable ball and normally inclined as respects both the vertical and horizontal; a non-rotatable wheel hub member mounted for angular movement on said ball; a tooth member rigid with said wheel hub operable in said groove controlling the direction of angular movement of said wheel hub member relative to said ball and adapted to impart to the wheel a banking incline relative to the vertical when said wheel is angularly moved on said ball for steering purposes; steering means connected with said wheel hub member to impart angular movement thereto; and a wheel rotatably mounted on said wheel hub member.

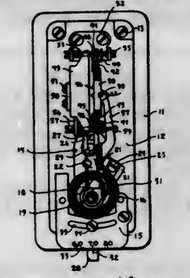
2,285,446

TWO STAGE THERMOSTAT

Carl G, Kronmiller, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application November 22, 1939, Serial No. 305,648
14 Claims. (Cl. 200—139)

1. In a device of the character described, an armature, a substantially frictionless pivot for said armature about which it is adapted to rotate, magnetic means cooperating with said armature at spaced points, said pivot being nearer one of said points than the other, so that said magnetic means will exert relatively differ-



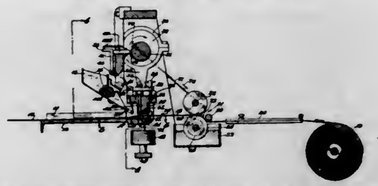
ent rotative forces on said armature at said points, and means for moving said pivot toward and away from said magnetic means.

2,285,447

MEANS FOR APPLYING REINFORCEMENTS

Malvin Lichter, New Rochelle, N. Y.

Application December 13, 1939, Serial No. 309,037
13 Claims. (Cl. 154—1)



1. An apparatus for applying a reinforcement comprising a tape to an end of a display sheet, said apparatus comprising a bed for said display sheet and guides therefor, means for feeding a continuous web having an adhesive surface so that an end margin thereof projects over the edge of said display sheet, and means for simultaneously cutting off said end margin of said continuous web and pressing said marginal portion on said display sheet.

2,285,448

PREPARATION OF POLYHYDRIC ALCOHOLS

Donald John Loder, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 30, 1937, Serial No. 171,891
2 Claims. (Cl. 260—635)

1. A process for the production of ethylene glycol which comprises hydrogenating an aliphatic alcohol ester of a partially dehydrated glycolic acid while in contact with a hydrogenation catalyst at a temperature between 125 and 325° C. and a pressure in excess of 400 atmospheres.

2,285,449

METHOD OF PRODUCING SOLS AND AEROGELS

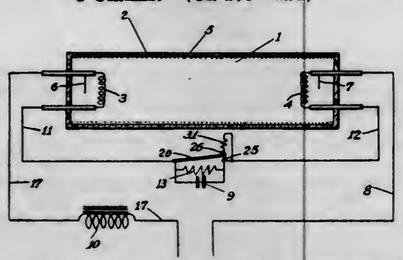
Morris D. Marshall, Allston, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application May 8, 1939, Serial No. 272,404
14 Claims. (Cl. 252—306)

3. The method of preparing a stable organo-aqua sol composed of a colloidal inorganic oxide,

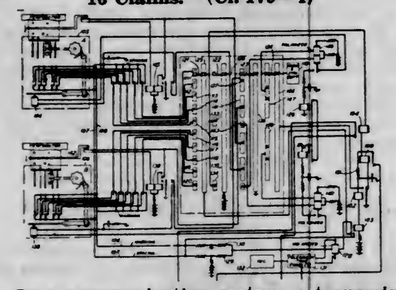
an organic solvent and water, which comprises forming an aquasol containing a dissolved inorganic salt and a colloidal inorganic oxide, adding a quantity of a water-miscible organic solvent and removing the precipitated inorganic salt.

2,285,450
ELECTRIC DISCHARGE LAMP AND STARTING DEVICE
Henry J. McCarthy, Danvers, Mass., assignor to Hygrade Sylvania Corporation, a corporation of Massachusetts
Application May 18, 1940, Serial No. 335,968
5 Claims. (Cl. 176—124)



1. In combination: an electric gaseous discharge lamp having at least two electrodes, one at least of said electrodes being of the filamentary type; a ballast impedance in series with said lamp; a resistor connecting one end of a filamentary electrode to the other electrode, said resistor having an impedance which is large compared with that of the ballast impedance; a high resistance contact; a low resistance contact; a bimetallic strip electrically contacting said high resistance contact when said resistor is unenergized and in a position to be distorted by the heat developed in said high resistance contact when the latter passes current, and, to open said contact when distorted sufficiently; said bimetallic strip also being so positioned as to be distorted by the heat developed in said resistor when the latter passes current and to short circuit said resistor, by making contact with the low resistance contact, when distorted sufficiently.

2,285,451
AUTOMATIC CONTROL SYSTEM
Alfred E. Melhose, Westfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 31, 1940, Serial No. 354,989
16 Claims. (Cl. 179—4)



1. In a communication system, a transmission channel normally conditioned against the transmission of voice currents, voice current responsive switching means for changing said normal condition, voice current delay circuits for retarding the transmission of voice currents for allowing said switching means to operate prior to the arrival of voice currents at the distant end of said channel and automatic means for adjusting said voice current delay circuits.

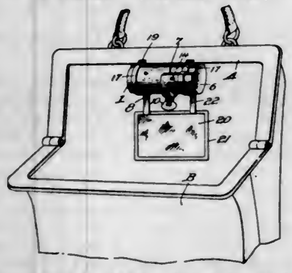
2,285,452
LUBRICATING COMPOUND
George E. Merkle, Glen Ridge, N. J., assignor to Lubriplate Corporation, New York, N. Y., a corporation of New York
No Drawing. Application February 26, 1940, Serial No. 320,894
2 Claims. (Cl. 252—18)

1. A lubricant of the class consisting of oil and grease bases, said lubricant having a base which constitutes at least 85% of the lubricant and contains finely divided, unsaponified, basic lead carbonate dispersed therein to the extent of not less than 3½% nor more than 15% by weight.

2,285,453
LUBRICANT
George E. Merkle, Glen Ridge, N. J., assignor to Lubriplate Corporation, New York, N. Y., a corporation of New York
No Drawing. Application April 9, 1940, Serial No. 328,696
2 Claims. (Cl. 252—25)

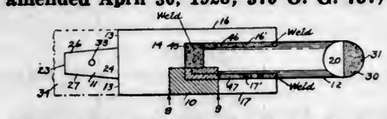
1. A lubricant of the class consisting of oils and greases containing, as a wear-reducing agent, finely divided titanium dioxide dispersed therein to the extent of not more than 10½% by weight.

2,285,454
ILLUMINATING DEVICE FOR HANDBAGS
Robert A. Moss, Cheyenne, Wyo.
Application November 6, 1939, Serial No. 303,145
1 Claim. (Cl. 240—6.45)



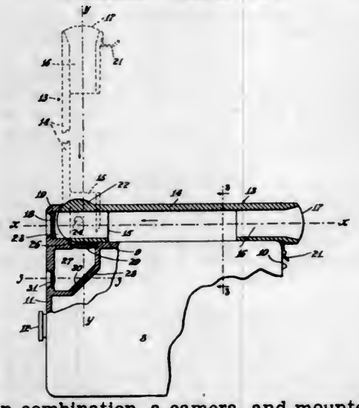
An illuminating device for a hand bag or the like, comprising a cylindrical casing, a spring pressed battery removably mounted within the casing, a resilient strip conductor within and insulated from the casing and electrically engaged by the battery, a conduit formed on the casing and including a portion extending longitudinally from one end thereof and an arcuate portion extending circumferentially of the casing substantially midway its ends, said conductor being fixed to said end of the casing and arranged substantially along the diameter of said end and being bent substantially at right angles for disposal of a free portion of the conductor within the longitudinally extending portion of the conduit, a lamp bulb mounted in the arcuate portion, a second resilient strip conductor electrically engaged by the lamp bulb and being curved and arranged in the arcuate portion for disposal in the path of said free portion of the first conductor to be engaged thereby for closing a circuit to the lamp bulb, a push button carried by said free portion, and means for suspending the casing within the hand bag for the walls of the latter to engage the casing and the push button respectively to hold the first conductor out of contact with the second conductor for retaining the circuit open when the bag is closed and to allow the first conductor to contact the second conductor for closing the circuit when the bag is open.

2,285,455
EXCAVATOR TOOTH
Francis M. Newell, Woodward, Okla.
Application October 3, 1940, Serial No. 359,502
5 Claims. (Cl. 37—142)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A tooth for excavating implements comprising, a base provided with a slot having rear and lateral surfaces, a cylindrical chisel member fitted within said slot and attached to said base by welding to the rear surface of said slot and along the lines of tangency of said chisel with the lateral surfaces of said slot.

2,285,456
CAMERA AND FINDER
Roger L. Nowland, New York, N. Y.
Application February 25, 1939, Serial No. 258,357
3 Claims. (Cl. 88—1.5)



1. In combination, a camera, and mounted on its top wall an exterior combined finder sight tube and handle member, said member being fulcrumed at its front end upon said camera top wall to swing in a fore-and-aft plane at right angles to the focal plane between a lowered horizontal position adjacently parallel to the wall and an upstanding viewing position at an angle thereto, said member being shaped between its ends above said top wall to form a handle bar spaced sufficiently from the wall to accommodate several fingers below the handle bar, and centrally located for balanced carrying, releasable holding means normally to retain the tubular member in position parallel to said wall whereat it may be used as either a finder or handle, and optical finding means including said sight tube, and cooperating optical means operable for finding purposes in both positions of the tube; such optical means comprising for horizontal sighting a first lens fixed on the camera located in the light path when the sight tube is horizontal, and for vertical sighting a second fixed lens located in the light path when the tube stands upright, and a diagonal mirror cooperating with the second lens.

2,285,457
PYROMETER
John A. Obermaier, Chicago, Ill.
Application February 16, 1938, Serial No. 190,721
15 Claims. (Cl. 73—359)



3. In combination, an indicator, a tubular extension arm, a pair of insulating blocks on the indicator for receiving one end of said arm therebetween and for mounting said arm for turning movement and for securing same in different angular positions, collector ring parts on said blocks and connected to the indicator, collector rings on said arm for contact with the collector ring parts on said blocks, a thermocouple pivotally mounted on the outer end of said arm, and means disposed within said tubular arm and electrically connecting said thermocouple to the collector rings on the arm.

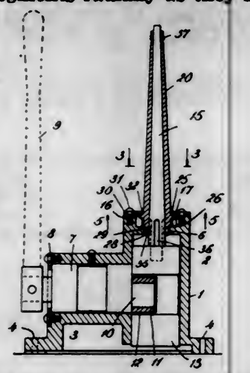
2,285,458
ADHESIVE MATERIAL
Emile Pragoff, Jr., Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 1, 1939, Serial No. 265,521
8 Claims. (Cl. 260—737)

1. An age-resistant pressure-sensitive adhesive composition essentially comprising rubber and between about 20 and about 30 per cent by weight thereof of a material selected from the group consisting of rosins, rosin acids, and rosin acid esters, which have undergone inter- and intra-molecular rearrangement in such manner that their ethylenic unsaturation has been reduced, said rearrangement having been effected by treatment of the material with a hydrogenation catalyst in the absence of added substances capable of reducing the degree of unsaturation.

2,285,459
RING EXPANDER
Donald H. Pratt, Bangor, Maine; Glenna C. Pratt administratrix of said Donald H. Pratt, deceased
Application September 18, 1939, Serial No. 295,467
1 Claim. (Cl. 29—8)

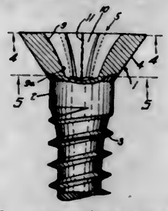
A finger ring expander which comprises a relatively long conical segmental expander having a gradual taper and formed of a plurality of radially disposed segments having a central lon-

gitudinal opening, the segmental expander being circular in cross-section when the segments are together in contracted position, a conical mandrel reciprocable in the opening for moving the segments into an expanded position, spring means for returning the segments to their contracted position, a lug attached to and projecting inwardly from each segment and a separate groove in the mandrel for engaging one lug to guide the segments radially as they move to the



expanded position and to the contracted position, said conical mandrel being reciprocable in the opening and being constructed and arranged to move the segmental members only a relatively small amount during each expansion, the segmental expander not appreciably changing from a true circle even at maximum expansion, whereby the ring to be expanded may be subjected to a series of small increments of expansion without appreciable circular deformation.

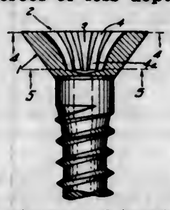
2,285,460
SCREW
William A. Purtell, West Hartford, Conn., assignor to The Holo-Krome Screw Corporation, a corporation of Connecticut
Application May 26, 1939, Serial No. 275,902
15 Claims. (Cl. 85—45)



1. A socketed connector having a turning socket therein, and turning tool binding means including a binding portion adjacent the bottom of said socket and disposed at increasingly acute binding angles toward said bottom, for engaging a generally correspondingly angled reciprocably inserted tool at a binding angle adjacent the bottom of said socket.

2,285,461
SOCKETED SCREW
William A. Purtell, West Hartford, Conn., assignor to The Holo-Krome Screw Corporation, a corporation of Connecticut
Application May 26, 1939, Serial No. 275,903
9 Claims. (Cl. 85—45)

3. A socketed connector having a turning socket therein including a conical axial aperture and shallow radially located fluted portions in the walls thereof of less depth than the ra-



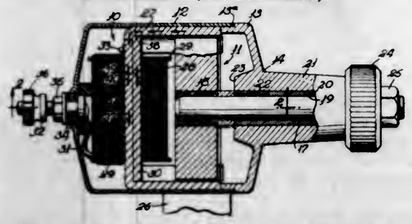
dius of said aperture, and turning tool binding means in the bottom portion of said socket, said binding means having increasingly sharp binding angles toward the inner end of said socket.

2,285,462
METHOD OF AND APPARATUS FOR MAKING SOCKETED SCREWS
William A. Purtell, West Hartford, Conn., assignor to The Holo-Krome Screw Corporation, a corporation of Connecticut
Application May 26, 1939, Serial No. 275,904
29 Claims. (Cl. 10—7)



9. In an apparatus for making socketed screws, punching mechanism for forming the mouth of a socket while preliminarily punching the remainder of the socket, and punching mechanism for punching turning surfaces in the remainder of the socket while portions of said mouth free from turning surfaces retain their general conformation.

2,285,463
PERMANENT MAGNET GENERATOR
William F. Ridgway, Rockford, Ill.
Application November 3, 1939, Serial No. 302,676
3 Claims. (Cl. 171—209)



1. In a generator of the type described, the combination of two strips of sheet metal having a high magnetic permeability, said strips being arranged in superimposed relation with their center portions in face-to-face engagement, a stator winding coiled about said central portions of the strips and holding the same in engagement, the end portions of one of said strips being arranged in opposed spaced relation to define a pair of pole pieces, a rotor disposed between said pole pieces, and the end portions of the other strip being bent about the exterior of said winding and in overlapping relation with each other to form a magnetic shunt about the winding.

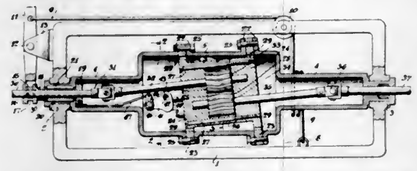
2,285,464
PREPARATION OF PHOSPHORS
Robert F. Ruthruff, Nutley, N. J.
No Drawing. Application June 27, 1939, Serial No. 281,351
16 Claims. (Cl. 23—135)

6. The process of preparing zinc sulfide comprising forming a precipitate of hydrated alumina in a solution containing a compound of zinc, removing the resulting insoluble material from said solution, chemically combining said zinc cation with the sulfide anion and metamorphosing the resulting zinc sulfide in the temperature range 250° C. to 350° C. in the presence of dilute sulfuric acid, the percentage of said sulfuric acid being maintained below a value defined by the expression $0.0225t-2.75$ and above a value defined by the expression $0.04t-8.8$ wherein t represents the temperature in degrees centigrade of said metamorphosis.

2,285,465
YEAST PROPAGATION
Alfred S. Schultz and Lawrence Atkin, Bronx, and Charles N. Frey, Scarsdale, N. Y., assignors to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware
No Drawing. Application November 8, 1940, Serial No. 364,772
7 Claims. (Cl. 195—79)

6. A method for increasing the vitamin B_1 content of a yeast, which comprises propagating *Saccharomyces cerevisiae* Fleischmann 189 yeast in a wort containing synthetic vitamin B_1.

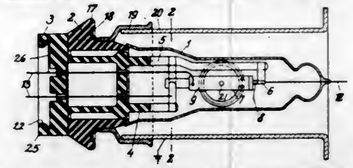
2,285,466
HYDRAULIC VARIABLE SPEED TRANSMISSION
George Schwarzbach, Brooklyn, N. Y.
Application October 26, 1940, Serial No. 362,928
9 Claims. (Cl. 74—294)



1. A transmission mechanism, comprising a rotatable housing, a gear casing fixed in said housing, meshing gears in said casing, and means to control the rotation of said gears with respect to each other and to control the rotation of said housing, said means comprising a brake band for said housing and a valve-controlled passageway from said housing through said casing.

2,285,467
ELECTROMAGNETIC RELAY
Hans-Fredi Schwartz and Otto Baier, Berlin, Germany, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Lorensweg, Germany, a company
Application September 7, 1938, Serial No. 228,756
In Germany August 13, 1937
7 Claims. (Cl. 200—87)

1. A vacuum type electromagnetic relay comprising a vacuum vessel member, a cover member, and an intermediate member rigidly jointed between said vessel member and said cover member, an armature assembly within said vessel member, contact means operatively associated with said armature, lead-in conductors for said contact means, at least one of said conductors extending through the cover member, magnetic means external to said vessel member for operating said armature assembly, said magnetic

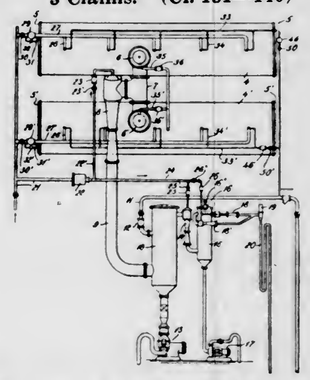


means being spaced from said intermediate member, and a shield in the shape of an annular metallic coating encircling one of said members. said shield being positioned between said lead extending through said cover member and said magnetic means.

2,285,468
SURFACE TREATMENT FOR ALUMINUM
Charles J. Slunder, Oakmont, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application July 8, 1941, Serial No. 401,465
4 Claims. (Cl. 148—6)

1. The method of producing a white matte finish on aluminum and aluminum base alloys which consists in immersing the surface in a solution containing 10 to 15 per cent by weight of hydrofluoric acid and 5 to 15 per cent by weight of ferric chloride, removing said surface and cleaning the same of the products of the reaction with said solution, immersing the surface again in said solution and again removing said surface from the solution and subsequently cleaning and stripping the surface of the discoloring products of the reaction in an acid solution.

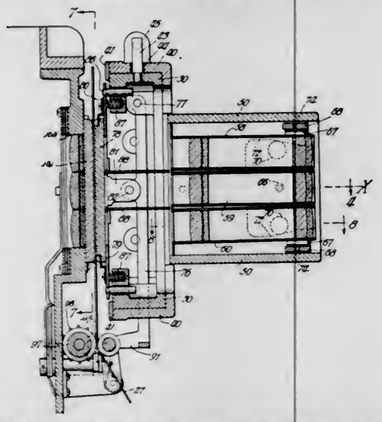
2,285,469
METHOD FOR MOISTENING TOBACCO
Horace L. Smith, Jr., and Lucian N. Jones, Richmond, Va., assignors to The Guardite Corporation, a corporation of Illinois
Application July 22, 1940, Serial No. 346,814
3 Claims. (Cl. 131—140)



1. The method of treating tobacco and the like which comprises subjecting two lots of tobacco in separate zones to vacuum and producing an atmosphere substantially completely of steam about the tobacco in each lot, the pressure in one lot being relatively high as compared with the other, and the tobacco therein being rela-

tively moist as compared with the other, and then interconnecting the two zones, whereby the lot of tobacco under lower pressure acts as a condenser and its temperature and moisture content are increased while the other lot of tobacco is cooled and its moisture content is decreased.

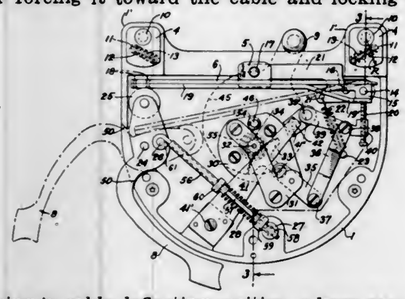
2,285,470
PLURAL LENS MOUNT
Joseph P. Stando, Kenneth W. Kennedy, and Rudolph J. Anschicks, Chicago, Ill., assignors, by mesne assignments, to Prismacolor, Inc., Chicago, Ill., a corporation of Illinois
Application November 21, 1938, Serial No. 241,500
10 Claims. (Cl. 88—16.4)



1. In apparatus of the kind described, the combination with film or plate supporting means of a lens mount comprising a supporting member, a casing open at the ends and longitudinally movable relative to said member in a direction normal to said film or plate, a plurality of lenses mounted in and longitudinally movable with said casing, said lenses having their optical axes substantially parallel to said direction of movement and being so mounted in the casing that they have a common image plane, means for reciprocally moving said casing and lenses longitudinally to correspondingly move the common image plane towards and away from said lens mount, cam mechanism operable by said movement of the casing and lenses to move said lenses transversely relative to each other in a manner to maintain the images respectively projected by said lenses in exact registry in said common image plane, and means for moving said lens mount away from said film supporting means to facilitate the insertion or removal of a film.

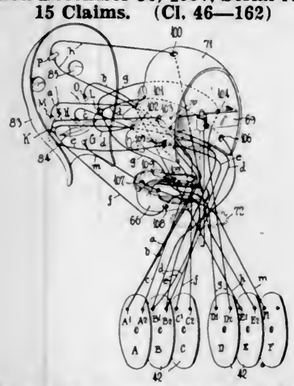
2,285,471
CABLE TENSION INDICATOR
John Sturgess, Glendale, Calif., assignor to Sturgess, Inc., Los Angeles, Calif., a corporation of California
Application March 29, 1940, Serial No. 326,734
16 Claims. (Cl. 265—1.6)

1. In a cable tension indicator provided with a pair of spaced supports for the cable to be tested and an intermediate oppositely disposed pressure applying member for deflecting the cable between said supports, a leaf spring upon which said member is supported at an intermediate point, means pivotally mounting said spring at one end for swinging said member into the path of the cable for deflecting the cable, manually operated means at the opposite end of said spring for forcing it toward the cable and locking the



spring in cable deflecting position, a lever secured to said spring for amplifying its movement, and means operated by said lever indicating the amount of deflection of said spring.

2,285,472
FIGURE
Milton Tenenbaum, Brooklyn, N. Y.
Application December 30, 1937, Serial No. 182,589
15 Claims. (Cl. 46—162)

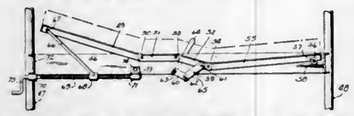


1. Body and limb members adapted to be adjusted to positions simulating attitudes of animals, a hollow skull member having holes therein, a supporting member on the body member for adjustably carrying the skull member, a jaw member adjustably mounted on the supporting member below the skull member, a flexible elastic covering member for the skull and jaw, cords attached to the covering member and passing through holes in the skull and jaw members and extending into the body member for manipulating and adjusting the cords so as to vary the aspect of the covering member.

2,285,473
HYDROHALOGENATION PROCESS
Charles A. Thomas and Herbert E. Morris, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application May 17, 1938, Serial No. 208,486
10 Claims. (Cl. 260—626)

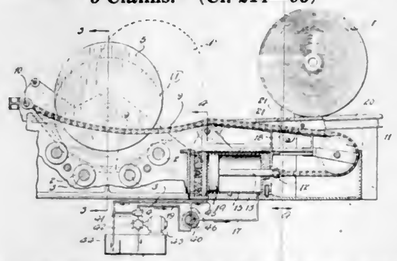
1. The process of facilitating reactions involving the addition of a hydrogen halide to a monomeric unsaturated organic compound whose only unsaturation is olefinic, which consists in subjecting the reaction mixture containing the unsaturated compound to the action of a hydrogen halide in the form of a complex addition product of dioxane and the hydrogen halide.

2,285,474
BED
Rolland W. Urie, Parsons, Kans.
Application October 3, 1938, Serial No. 233,039
4 Claims. (Cl. 5—69)



4. In a hospital bed including a bedstead, a sectional bed bottom including a substantially horizontal section supported on the bedstead, a movable intermediate section hinged to said substantially horizontal section, a foot section hinged to said movable intermediate section, said movable intermediate section being arranged to swing from a substantially horizontal position to a depending position defining with said horizontal and foot sections a step-like configuration, and means including a toggle having one end carried by the bedstead and the other end connected to the movable end of the intermediate section, means controlling the toggle for permitting the intermediate section to drop and for straightening the toggle for raising and supporting said intermediate section, said toggle being proportioned to take an over-center position when said intermediate section is raised, and stop means positioned to prevent the toggle from passing substantially beyond said over-center position.

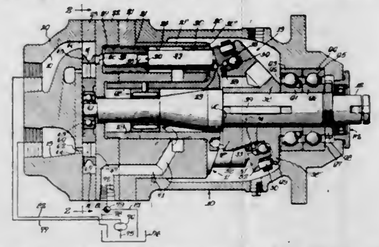
2,285,475
MATERIAL HANDLING DEVICE
Ladd J. Valusek, Fenton, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 3, 1940, Serial No. 350,710
5 Claims. (Cl. 214—95)



1. The combination with a cradle for support-a roll of strip metal, of an elevator in the form of a sling arranged to raise and lower in said cradle and to receive said roll while raised, a relatively fixed support for one end of the sling and a relatively movable support for the other end of the sling whereby after the roll is deposited upon the raised sling the movable support of the sling is actuated to slacken the sling and lower the roll into the cradle.

2,285,476
FLUID MOTOR
Gunnar A. Wahlmark, Rockford, Ill.
Application December 20, 1939, Serial No. 310,137
11 Claims. (Cl. 121—119)

10. A two-speed fluid motor comprising, in combination, a casing, a plurality of annularly arranged cylinders in said casing, a rotatably mounted shaft concentric of said cylinders, valve means driven by said shaft to control the flow of operating fluid to and from the head end of said cylinders, a first and a second piston reciprocable



in each cylinder and each exposed to the operating fluid in the head end of the cylinder, means for converting the reciprocatory motion of said pistons into rotary motion of said shaft, and fluid means for rendering one of said pistons ineffective to cause operation of the motor at a higher speed.

2,285,477
METHOD OF PRODUCING SOLS
John F. White, Medford, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application November 9, 1940, Serial No. 365,010
13 Claims. (Cl. 252—313)

1. The method of preparing a relatively stable sol which comprises forming an aquasol containing a dissolved inorganic salt and a colloidal inorganic oxide, cooling said aquasol until a major proportion of said salt precipitates out, and then removing the precipitated salt.

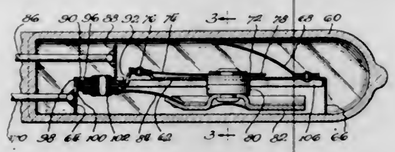
2,285,478
METHOD OF MAKING EDIBLE PRODUCTS AND MATERIAL FOR USE THEREIN
John R. White, Belmont, and Joseph Avery Dunn, Newtonville, Mass., assignors to Lever Brothers Company, a corporation of Maine
No Drawing. Application February 3, 1938, Serial No. 188,442
4 Claims. (Cl. 99—123)

1. As an ingredient to be used in the production of bakery and confectionery products having maximum edible and keeping properties and containing sugar, fats and a large proportion of moisture, a dry homogeneous and plastic material comprising a plastic edible fat intimately mixed while in a plastic unmelted state with 3 to 15% egg yolk, whereby the egg yolk is present and remains in said plastic material in a substantially unchanged state.

2,285,479
ELECTRIC SWITCH
John B. Whitted, Glencoe, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Original application March 6, 1936, Serial No. 67,527, now Patent No. 2,169,827, dated August 15, 1939. Divided and this application October 8, 1938, Serial No. 233,903
3 Claims. (Cl. 200—87)

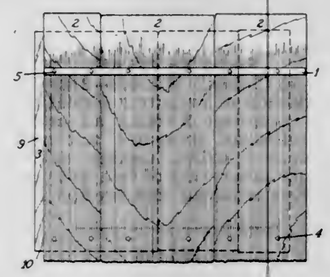
1. In a switch of the class described, the combination of a bulb presenting a generally cylindrical inner surface, a frame extending length-

wise of said cylindrical surface, said frame having legs engaging said cylindrical surface, each leg having a bulb engaging surface formed on a radius smaller than the radius of said cylin-



drical surface, a spring for urging said legs into engagement with said bulb, contact means carried by said frame, and means for engaging and disengaging said contact means.

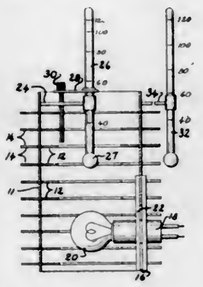
2,285,480
FABRICATED SHINGLE PANEL
Raymond A. Wilde, Everett, Wash., assignor of one-half to C. B. Lumber & Shingle Company, Everett, Wash., a corporation of Washington
Application March 7, 1941, Serial No. 382,214
4 Claims. (Cl. 108—8)



4. In a fabricated shingle panel of the character described, an outer layer of surfacing shingles and an underlying layer of shingles, the "butt" ends of said outer layer of surfacing shingles extending a short distance beyond the "butt" ends of said underlying layer of shingles, a reinforcing and guiding strip extending transversely across the outer surface of said panel parallel to the "butt" ends of said outer layer of surfacing shingles, and spaced from said outer "butt" ends a distance equal to the extent said surfacing shingles are desired to be placed "to the weather," said outer and inner shingles secured to said strip, the width of said strip not exceeding the distance the "butt" ends of said outer layer of surfacing shingles extend beyond the "butt" ends of said underlying shingles.

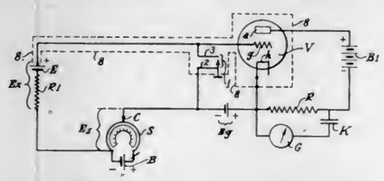
2,285,481
AIR CONDITIONING
George V. Woodling, Cleveland, Ohio, assignor to General Motors Corporation, a corporation of Delaware
Application January 4, 1938, Serial No. 183,336
2 Claims. (Cl. 73—336)

1. A psychrometric instrument comprising in combination, a temperature responsive element, a heating element, and a chimney element enclosing said elements, said chimney element being provided with external heat conducting fins, said elements being so proportioned and arranged that said temperature responsive ele-



ment responds to changes in the effective temperature.

2,285,482
METHOD OF AND APPARATUS FOR MEASURING
Felix Wunsch, Philadelphia, Pa., assignor to Leeds & Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application February 24, 1939, Serial No. 258,140
14 Claims. (Cl. 171—95)

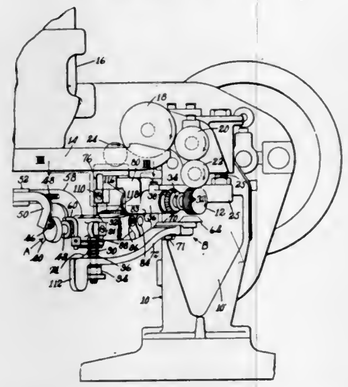


1. In a measuring system comprising a galvanometer and a thermionic tube, the method of measuring an unknown voltage which comprises intermittently changing the potential of a control electrode of said tube in accordance with unbalance between said unknown voltage and a known voltage effectively in series opposition thereto and at intervals each greater than a half period of the galvanometer, producing by each resultant change in anode current of the tube a transient flow of a quantity of electrical energy through the galvanometer, effecting ballistic deflections of the galvanometer by the alternate transient flows of electrical energy through it, and varying said known voltage in sense corresponding with said deflections to effect balance of said voltages.

2,285,483
MANUFACTURE OF SULPHO-TRIMELLITIC ACID
Max Wyler, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application July 31, 1940, Serial No. 349,001. In Great Britain July 31, 1939
8 Claims. (Cl. 260—507)

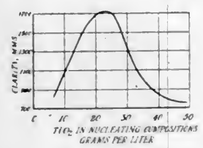
1. A process for the manufacture of 5-sulpho-1,2,4-trimellitic acid which comprises sulphonating a mixture of the xylic acids as obtainable by introducing a carboxy group, by Friedel-Crafts' synthesis, into a mixture of isomeric xylenes; and then oxidizing the mixture of sulpho-dimethylbenzene-carboxylic acids thus obtained to convert the methyl groups into carboxy-groups.

2,285,484
CEMENT APPLYING MACHINE
Fred Ashworth, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application November 6, 1940, Serial No. 364,518
12 Claims. (Cl. 12—80)



1. A machine for applying cement to parts of shoes comprising a cement applying roll, a swingable carrier adjacent to the applying roll, plural work supporting rolls adapted to support shoe parts of different shape mounted on said carrier, and means for rotating one of said work supporting rolls, said swingable carrier being mounted for movement relative to the applying roll to bring one or the other of said work supporting rolls into co-operating position with the applying roll.

2,285,485
PROCESS FOR THE PRODUCTION OF TITANIUM DIOXIDE
Jelks Barksdale, New York, N. Y., and Walter W. Plechner, Metuchen, N. J., assignors to National Lead Company, New York, N. Y., a corporation of New Jersey
Application November 3, 1938, Serial No. 238,542
10 Claims. (Cl. 23—202)

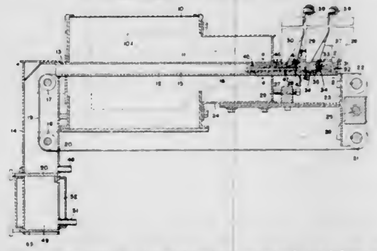


1. A method for the preparation of nucleating compositions used in the hydrolytic precipitation of hydrous titanium oxide from titanium salt solutions which comprises heating a titanium tetrachloride solution containing between approximately 2.75 and 3.25 hydrochloric acid mol equivalents per mol of titanium and between approximately 5 grams and approximately 30 grams of titanium, calculated as TiO_2, per liter until a degree of opalescence develops substantially equal to the degree of opalescence produced at the end of approximately 10 minutes heating at temperatures between 80° C. and 90° C. of a titanium tetrachloride solution having a titanium content, calculated as TiO_2, and a hydrochloric acid content within the said ranges.

2,285,486
PREPARATION OF TITANIUM DIOXIDE PIGMENTS
Jelks Barksdale, New York, N. Y., and Walter W. Plechner, Metuchen, N. J., assignors to National Lead Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application June 18, 1940, Serial No. 341,142
12 Claims. (Cl. 23—202)

1. A method for the preparation of nuclear compositions useful in the hydrolytic precipitation of hydrous titanium oxide from titanium salt solutions which comprises heating a titanium tetrachloride solution having a titanium content, calculated as TiO_2, of between approximately 5 grams and approximately 30 grams per liter and containing per mol $TiCl_4$ from approximately 0.5 to approximately 2.0 mols monovalent anion equivalents added as a non oxidizing soluble, ionizable salt yielding monovalent anions until a degree of opalescence develops substantially equal to the degree of opalescence produced at the end of 10 to 15 minutes' heating at temperatures between 80° C. and 90° C. of a similar titanium tetrachloride solution, having a titanium content, calculated as TiO_2, of approximately 15 grams per liter and containing per mol of $TiCl_4$ from 0.5 to 2.0 mols added non-oxidizing, monovalent anions.

2,285,487
METHOD OF AND APPARATUS FOR PRODUCING SPONGE IRON
Joseph E. Batie, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Application January 15, 1940, Serial No. 313,987
7 Claims. (Cl. 75—37)

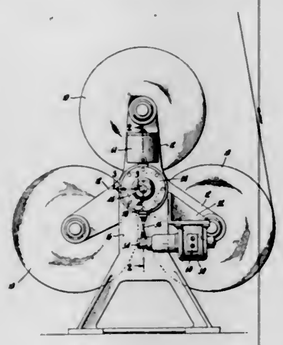


2. The method of reducing metal oxides which comprises moving a conveyor through a substantially horizontal reducing chamber, discharging carbonaceous material on said conveyor to form a layer, feeding a strip of paper on top of said layer, discharging metal oxide onto said paper strip to form a superposed layer, feeding a strip of paper on top of said oxide layer, discharging carbonaceous material on said second paper strip, heating said reducing chamber to a temperature at which said oxide is reduced by said carbonaceous material to metal sponge, and discharging the reduced metal and excess carbonaceous material from said conveyor.

2,285,488
WEB ROLL FEEDING MECHANISM
David G. Bernard, Chicago, Ill., assignor to The Goss Printing Press Company, Chicago, Ill., a corporation of Illinois
Application July 14, 1939, Serial No. 284,389
6 Claims. (Cl. 242—64)

6. In a magazine reel, the combination of a reel shaft, web roll supporting arms mounted on

the reel shaft, supports for the shaft in which the shaft is axially movable, a hydraulic piston motor mounted on one support and connected to



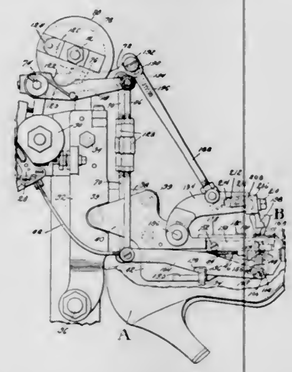
the shaft in alinement therewith for axial movement thereof, and means for alternatively supplying liquid under pressure to either end of the piston including a motor driven liquid pump.

2,285,489

FASTENING INSERTING MACHINE

Benjamin Bunker Blanchard, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey

Application May 3, 1940, Serial No. 333,201
6 Claims. (Cl. 1—20)



1. In a machine for fastening shoe parts, a support for a shoe upper provided with a guideway for fastenings, a member movable relatively to said support for clamping a shoe part on the upper in position to be secured thereto by a driven fastening, a driver for the fastenings, means for operating said drives, means associated with said support for forming fastenings for the operation of said driver, and a single lever for operating both the fastening forming means and said clamping member in predetermined timed relation to the driver to form a fastening and to clamp the shoe part and upper first yieldingly and then to support the clamping member positively against movement out of clamping position during the fastening driving operation.

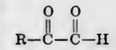
2,285,490

FELTED ARTICLE AND PROCESS FOR ITS PRODUCTION

Aubrey E. Broderick, South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application March 21, 1941, Serial No. 384,480
19 Claims. (Cl. 117—157)

15. In the process of producing an absorbent paper sheet having high dry and wet strengths and which is resistant to linting, the steps which comprise applying to fibrous cellulosic material an aqueous solution containing a water-soluble cellulose ether, a polyhydric alcohol, and a water-soluble aldehyde having the structure designated by the formula



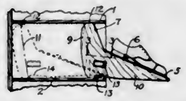
wherein R represents either hydrogen or an alkyl group, and thereafter heating the thus treated fibrous material to remove the elements of water therefrom, thereby depositing upon the fibers a product of the conjoint condensation of said water-soluble ether, polyhydric alcohol, and aldehyde.

2,285,491

SHOE DISPLAY RACK

Arthur H. Clark, Oklahoma City, Okla.

Application March 1, 1940, Serial No. 321,637
2 Claims. (Cl. 211—36)



1. The combination with spaced parallel shelves of a shoe display rack comprising, an inclined stage having a heel abutment thereon, a pair of T-shaped chairs supporting said stage, said chairs having their upright legs of slightly greater maximum dimension than the distance between the shelves and being disposed between said shelves with said maximum dimension inclined rearwardly, said chairs being arranged for sliding movement inwardly and outwardly between said shelves when the chairs are tilted so that the upper extremities thereof are free of the shelf thereabove, and a part elevated above the lower shelf for maintaining said chairs tilted out of engagement with the shelf thereabove except when the stage is at the outward extremity of its movement, said part arranged to prevent complete removal of the chairs without substantial rearward tilting and vertical translation thereof.

2,285,492

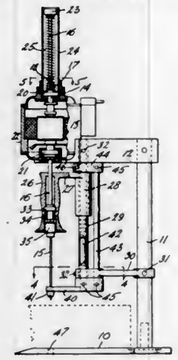
MACHINE FOR PERFORATING CLOTH AND OTHER MATERIALS

Frederick J. Clark, Buffalo, N. Y., assignor to Eastman Machine Company, Buffalo, N. Y.

Application May 19, 1941, Serial No. 394,160
7 Claims. (Cl. 164—86)

1. A perforating machine comprising a flat base adapted to rest stably upon a supporting surface and on which the material to be perforated is adapted to rest, a tool driving motor supported above said base by a standard rising from the base at one side of the material, a vertical tool spindle rotated by said motor and movable axially relatively to the motor and carrying a perforating tool, a tool operating device connected with said spindle and movable vertically

for causing the tool to penetrate the material, a guide device for the lower portion of the tool, vertically movable supporting means for said



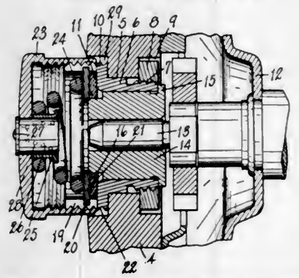
guide device, and a device for releasably securing said supporting means with said guide device at different elevations above said base.

2,285,493

FISHING REEL

Earle D. Clickner, Kalamazoo, Mich., assignor to Shakespeare Company, Kalamazoo, Mich., a corporation of Michigan

Application August 1, 1940, Serial No. 349,077
13 Claims. (Cl. 242—84.5)



11. In a fishing reel, the combination with a frame, a spool provided with a spindle having a journal member telescoped concentrically thereon for rotation therewith, a bearing on said frame for said journal member, said journal member and bearing being of substantially greater diameter than the portion of the spindle on which the journal member is telescoped and acting to normally constitute frictional drag means for substantially retarding the spool in the normal operation thereof, coacting friction members one of which has splined engagement with said journal member, and means for variably adjusting the said friction members.

2,285,494

SPINE STRETCHER

James W. Cole, Dallas, Tex.

Application April 22, 1941, Serial No. 389,705
1 Claim. (Cl. 128—75)

An appliance arranged to be adjusted to the head for exerting a longitudinal pull upon the spine, comprising a strap folded obliquely upon itself at points spaced equidistantly from its ends, means for retaining the folded portions against displacement, said strap having its ends overlapping to underlie the chin point of the wearer, a second and narrower strap having one end affixed to said first strap adjacent one end of the latter and extending across the overlapped ends of said first strap, means to adjustably connect the end of said second strap adjacent the oppo-



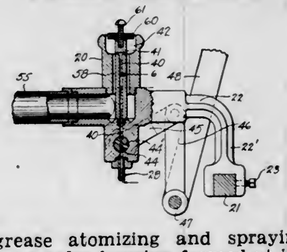
site end of said first strap, a third strap having one end affixed to said first strap at one oblique fold and to the companion oblique fold by adjustable means whereby to underlie the back of the wearer's head and means for supporting said first strap above the wearer's head.

2,285,495

PAN GREASING DEVICE

Pearl M. Cook, Seattle, Wash.

Application February 13, 1939, Serial No. 256,200
3 Claims. (Cl. 299—140)



1. A grease atomizing and spraying device comprising a valve housing formed at its top end with an upwardly opening basin of substantial depth, and having a valve controlled passage leading to the base of the basin for the delivery of grease thereto, and having a valve controlled channel for the delivery of air under pressure into the basin for the dispersion of the grease therefrom, and an atomizing and spraying disk contained within the upper portion of the basin and adapted to be revolved by the impingement of the discharged air and a vertical pivot axis mounting the disk and along which it will be lifted from the basin in accordance with the delivery of air.

2,285,496

BLOWPIPE

Herbert W. Cowin, Westfield, N. J., assignor to The Linde Air Products Company, a corporation of Ohio

Original application November 29, 1938, Serial No. 242,882. Divided and this application November 4, 1939, Serial No. 302,829
5 Claims. (Cl. 158—27.4)



3. In a blowpipe adapted for use in cavities and other confined places, the combination comprising a blowpipe head; conduit means for delivering cutting oxygen and a combustible pre-

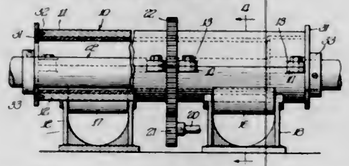
heating mixture to said head from suitable sources of supply; a slender elongated tubular casing extending from said head and surrounding said conduit means; said head being located within the axially-projected periphery of said tubular casing and having a recessed lateral face provided with a cavity adjacent to the end of said blowpipe angularly disposed relative to the axis of said casing; a tip mounted in said cavity, the delivery end of said tip having a cutting oxygen orifice and at least one preheating gas mixture orifice communicating with said respective conduit means, said tip lying wholly within the axially-projected periphery of said casing, whereby said tubular casing substantially throughout its length guides said tip within such cavities, and spaces the delivery end of said tip from the walls of such cavities.

2,285,497
METHOD AND APPARATUS FOR FORMING TUBULAR ARTICLES

Charles W. Cuno, Wilmington, Ill., assignor to The Lehon Company, Chicago, Ill., a corporation of Illinois

Application November 30, 1938, Serial No. 243,136

5 Claims. (Cl. 25—30)



1. The method of forming tubular articles from a plastic cement-asbestos material, which consists in forming a layer of said material on the inside of a cylindrical mold to completely cover the mold surface thereof, inserting a mandrel in an axial direction within said mold, said mandrel having a diameter less than the internal diameter of the article to be formed and which conforms in some degree to the inner shape of the mold, supporting the mandrel by the respective ends of the mold to space the mandrel from the inside surface of the same, and rotating the mold, whereby the mandrel will have free rolling movement on the inside periphery of said ends to produce a rolling action on the plastic layer to thereby shape the article and produce the desired wall thickness.

2,285,498
OPTICAL MEASURING DEVICE

Bruce W. David, Cleveland Heights, Ohio

Application May 27, 1940, Serial No. 337,446

4 Claims. (Cl. 88—2.2)



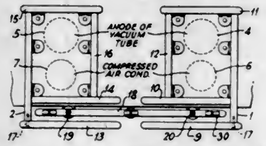
4. An optical measuring device comprising a negative lens through which an object may be viewed and having associated therewith a plurality of companion scales adapted to intercept the image of the object being viewed, said scales being arranged side by side and being calibrated in preferred linear units, one of said scales representing a certain total number of linear units and the other of said scales representing another total number of linear units, each of said scales constituting a calibrated means of measurement of an entire object or parts thereof when the device is located at one or another prescribed distance from the object.

2,285,499
VARIABLE CONDENSER

Carl George Frederick Dietsch, Leonia, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application May 31, 1939, Serial No. 276,504

4 Claims. (Cl. 250—16)



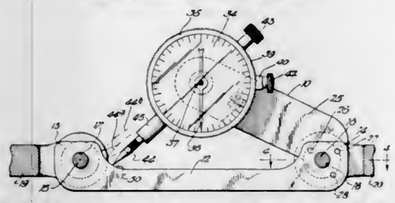
1. A variable condenser having a fixed and a movable plate, a compressed air condenser and an anode of an electron discharge device associated therewith, insulated support means for said fixed plate, said fixed plate and said insulated support means arranged to form a box-like structure to surround and partially electrically shield said condenser and anode, said movable plate maintained substantially at ground radio frequency potential, and means to vary the capacity of said condenser by moving said movable plate.

2,285,500
DYNAMOMETER

William C. Dillon, Chicago, Ill., assignor to W. C. Dillon & Company, Inc., Chicago, Ill., a corporation of Illinois

Application December 21, 1939, Serial No. 310,283

8 Claims. (Cl. 265—68)



1. A dynamometer comprising, in combination, a normally straight flexible bar having integral angularly disposed portions and means for applying force to the angularly disposed portions in a direction transverse to the angularly disposed portions for effecting flexure of the bar in a direction transverse to the normally straight bar, said flexure being dependent upon the force applied, a rigid arm rigidly secured to one end of the flexible bar, and a plunger actuated dial indicator secured to said arm at a position spaced from the bar and so disposed that said plunger rests against the bar at a place which is spaced from the arm and between the angularly disposed portions, said plunger being responsive to the flexure of the bar to actuate the indicator.

2,285,501
MANUFACTURE OF MOLDING COMPOUNDS

Alfred L. Dixon, Western Springs, and Raymond P. Lutz, Oak Park, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application February 28, 1940, Serial No. 321,206

4 Claims. (Cl. 260—10)

1. In a method of making a molding compound, the steps of stirring together cotton flock and a finely divided phenolic base resin to form an unbonded mixture of flock and hard resin particles, subjecting the resultant mixture to the action of air currents to disperse the cotton flock in the form of clumps, impacting at high speed the dispersed clumps to release individual cotton fibres from the clumps and dust the hard resin on the fibres, then kneading the mixture until it forms into a doughly mass, rapidly cooling the doughy mass, and pulverizing the cooled mass to form a molding compound.

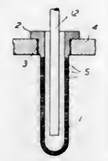
2,285,502
MANUFACTURE OF TUBES AND OTHER HOLLOW ARTICLES

Henry Dreyfus, London, England, assignor to Celanese Corporation of America, a corporation of Delaware

Application October 28, 1938, Serial No. 237,470

In Great Britain November 4, 1937

11 Claims. (Cl. 18—58)



1. Process for the production of hollow articles, which comprises depositing on a former having porous walls a base layer of a solid material soluble in a solvent which will have little or no effect on the hollow article produced, forming the hollow article upon said base layer from a film-forming solution and then applying such a solvent to the base layer through the walls of the former so as to facilitate removal of the hollow article therefrom.

2,285,503
AUTOMATIC FIREARM

Halvor Olsen Eiane, Washington Island, Wis.

Application August 3, 1939, Serial No. 288,165

2 Claims. (Cl. 42—1)



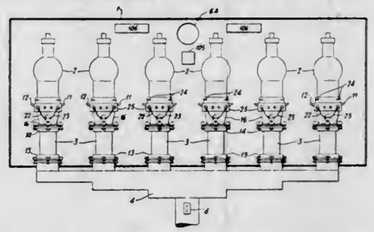
1. In an automatic fire arm having a receiver and a reciprocating bolt action mechanism operating within and beyond said receiver, a flexible grated bolt guard adapted for use with offset left side gun sights and mounted parallel to the reciprocating path of said bolt mechanism, said guard comprising a threaded front terminal set at a right angle to the main body of said guard, a vertically disposed eye-bolt threaded into a rearward extension of said receiver and provided with internal threads in its eye for receiving said front terminal, a rear terminal likewise set at a right angle to the main body of said guard and provided with a flat milled section thereon, a stationary rear end locking device provided with a transverse passage and a reduced slot extending rearwardly from said passage, said flat milled section of said rear terminal adapted to expand into said slot and lock said guard in its operative position.

2,285,504
RECTIFIER TEMPERATURE CONTROL

James L. Finch, Patchogue, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application October 31, 1939, Serial No. 302,096

10 Claims. (Cl. 250—27.5)



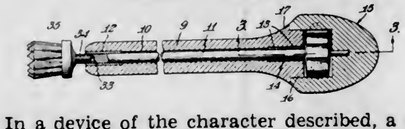
1. A temperature control system for an electron discharge device subjected to high voltages with respect to ground in the normal operation thereof comprising the combination of a casing for enclosing said electron discharge device, means for circulating a cooling fluid through said casing, a tubular insulating member supporting said electron discharge device within said casing and serving as a means for directing said cooling fluid on said electron discharge device.

2,285,505
ROTARY TOOTHBRUSH

Melvin C. Grout and Marion E. Frost, Springfield, Ohio

Application July 15, 1940, Serial No. 345,638

1 Claim. (Cl. 15—28)



In a device of the character described, a casing having a longitudinal bore, the interior of the casing being enlarged at each end portion to provide counter-bore sections of increased diameter, a bushing sleeve fitted in the counter-bore in the outer portion of the casing, a pair of relatively short bushing sleeves mounted in the counter-bore in the opposite end portion of the casing and disposed in longitudinally spaced relation, a packing ring fitted in the said counter-bore between the said spaced bushing sleeves, a housing at one end of the said casing forming a chamber therein, the said housing having inlet and outlet passages, a shaft rotatably extended through the bore of the casing and journaled in the bushing sleeves mounted therein, a brush member connected to the outer end of the said shaft, and a fluid operated wheel fixed on the opposite end of the shaft and rotatably mounted in the chamber of the housing.

2,285,506
TEMPERATURE CONTROL FOR RECTIFIER TUBES

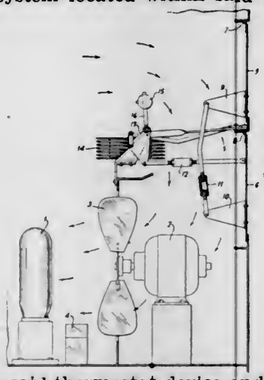
James L. Finch, Patchogue, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application May 24, 1940, Serial No. 336,969

10 Claims. (Cl. 250—27.5)

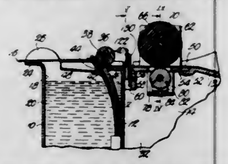
1. A rectifier temperature control system comprising a plurality of rectifier tubes, a compartment for said rectifier tubes, a fluid circulating device located within said compartment for cir-

culating the air within said compartment, a plurality of doors secured to said compartment, a thermostat device within said compartment, and a linked system located within said casing and



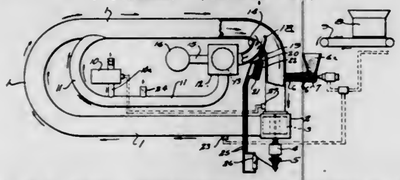
coupled to said thermostat device and said doors to control the temperature of said compartment and to open or close said doors upon a change of temperature.

2,285,507
GUMMED PAPER TAPE MACHINE
Harry F. Gilliam, Kansas City, Mo.
Application March 24, 1941, Serial No. 384,931
5 Claims. (Cl. 164—42)



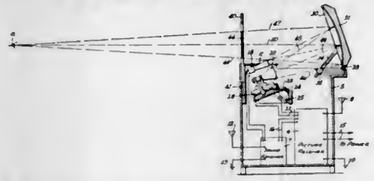
1. In a tape dispensing machine a master feed roller mounted on a transverse shaft, a floating feed roller resiliently urged toward said master feed roller, a crank mounted for limited free movement on said shaft to drive said master roller through one or more full revolutions; a centrifugally operated ratchet adapted to limit the feeding of the tape to pre-determined unit lengths; and ratchet means to prevent reverse movement of said feed rollers at each revolution of the master feed roller.

2,285,508
INTERNALLY HEATED DRIER
Worth C. Goss, Seattle, Wash.
Application April 19, 1939, Serial No. 268,703
7 Claims. (Cl. 263—15)



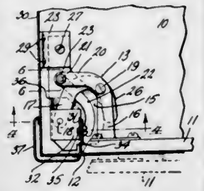
3. In a drying apparatus, a continuous tubular duct, means for effecting a controlled feeding of material into the duct to the exclusion of outside air, propulsion means interposed in the duct and operable for the propelling of the duct gases about the duct at a velocity to carry the received material in suspension therein, a device outside the duct for the separation of dried material from the gases, a tube connecting the duct and said separating device, means for diverting a part of the circulated stream of gases and material from the duct through said tube into said separating device, a pipe connection for the return of the gases from said separating device into the duct, an electrically operated gas burner having a blast tube directed into the gas return pipe to supply the duct with hot gases for the drying of material therein with an incident generation of superheated steam, an electric circuit for the burner, and a pressure relief valve in the return connection.

2,285,509
TELEVISION AND SOUND SYSTEM
Irl R. Goshaw, Beverly Hills, Calif.
Application April 15, 1940, Serial No. 329,588
8 Claims. (Cl. 178—5.8)



1. The method of presenting a television image and its concomitant sound to an observer comprising receiving and producing a television image out of direct view of the observer, magnifying said image by reflection from a curved specular reflecting surface to form a real image of said received and reproduced television image, receiving and reproducing concomitant sound accompanying said received image, and directing all the effective sound waves through said image along the path of said light waves to the observer.

2,285,510
HINGE CONSTRUCTION
Victor A. Gronberg and Levi M. Hultberg, Jamestown, N. Y., assignors to Art Metal Construction Company, Jamestown, N. Y.
Application January 13, 1941, Serial No. 374,144
5 Claims. (Cl. 16—164)



2. A door hinge comprising a stationary member, a door member secured to and projecting from the door, a stud secured to the projecting portion of the door member and arranged to travel in a slot in the stationary member when opening and closing the door, and a swinging link pivoted to the stationary member and to the door member and slidably bearing against one face of the stationary member, said stud having a head which slidably bears against the opposite face of the stationary member, and said link having a free end extending beyond its pivotal connection with the door member and slidably bearing against a face of the door member which faces oppositely to said first mentioned face of the stationary member.

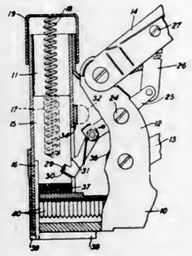
2,285,511
PHTHALIMIDE COLORING MATTER
Norman Hulton Haddock, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application October 19, 1939, Serial No. 300,282. In Great Britain October 21, 1938
14 Claims. (Cl. 260—243)

1. A compound of the general formula

$$\begin{array}{l} R-C=Z \\ | \quad\quad | \\ OC-NR_1 \end{array}$$

wherein R is a benzenoid aryl radical carrying the two C-atoms in ortho positions; R_1 is a member of the group consisting of hydrogen and lower alkyl; while Z stands for the radical of an aromatic-heterocyclic compound which is capable of being formulated in two tautomeric forms and which in one of said forms possesses in the heterocyclic ring a CH_2 group adjacent to a CO group, said radical Z being attached to the double-bonded C-atom in the above formula through the carbon atom of said CH_2 group.

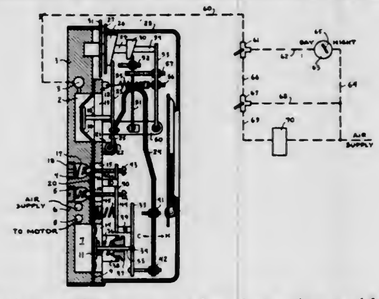
2,285,512
STAPLING MACHINE
Joseph J. Harley, Tenafly, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 29, 1940, Serial No. 321,369
4 Claims. (Cl. 1—49)



1. In a staple driving machine, a casing, a staple magazine therein, a plunger, a staple driving blade on said plunger, a spring for actuating said plunger, a seat for said spring connected to said casing, a chamber for said plunger and said spring in said casing, an operating lever pivoted in said casing adapted to raise said plunger and compress said spring upon the operation of said lever, and means in said casing in the path of said lever comprising a shiftable stepped bar whereby the time of release of said plunger and staple driving blade may be varied.

2,285,513
CONTROL APPARATUS
John L. Harris, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application December 30, 1939, Serial No. 311,883
9 Claims. (Cl. 236—1)

8. In a pneumatic control instrument, a condition responsive element, movable mounting means for said condition responsive element, control valve mechanism, a linkage between said condition responsive element and said control valve mechanism for causing said condition responsive element to actuate said mechanism, said linkage including reversing means operated by movement of the condition responsive element on its movable mounting means, and a pressure motor for shifting the position of said condition responsive element to thereby reverse the action

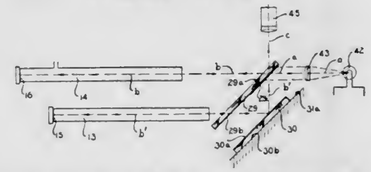


of said condition responsive element on said valve mechanism.

2,285,514
MANUFACTURE OF METHYL CELLULOSE
Albert Aubrey Houghton and Charles Martin Taylor, Saltcoats, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application January 3, 1940, Serial No. 312,293. In Great Britain January 3, 1939
10 Claims. (Cl. 260—231)

1. A process for the manufacture of low substituted methyl celluloses from cellulose aqueous sodium hydroxide and dimethyl sulfate which comprises both mechanically disintegrating the raw material cellulose and mechanically distributing the dimethyl sulfate therein in contact with a non-mercerising aqueous caustic soda of 2% to 5% strength and thereafter mercerising the cellulose by the addition of concentrated aqueous sodium hydroxide and then permitting the methylation to proceed.

2,285,515
LIGHT DIVIDING APPARATUS
Roy T. Hurley, Dobbs Ferry, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Original application October 21, 1937, Serial No. 170,155. Divided and this application October 9, 1939, Serial No. 298,562
2 Claims. (Cl. 88—1)



1. In apparatus of the class described, means for dividing a beam of light and directing the divided beams over substantially parallel paths, said means comprising a light transmitting member having parallel surfaces, one of said surfaces having a portion thereof partly mirrored, and a light reflecting member, said light reflecting member having the reflecting surface thereof adjacent and parallel to the partly mirrored surface of said light transmitting member, said members being separated a sufficient distance to cause the light beam portions that are reflected from said partly mirrored surface on said light reflecting member to be directed by the latter through the unmirrored portion of the light transmitting member.

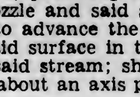
2,285,516

MANUFACTURE OF SOLUBLE NITRO DYESTUFFS AND THEIR APPLICATION

Arthur Howard Knight and Frank Howard Pearman, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application July 27, 1939, Serial No. 286,928. In Great Britain August 2, 1938
15 Claims. (Cl. 260—475)

2. A water-soluble dyestuff for acetate artificial silk, being a compound of the general formula Z—Alk—O—D, wherein D represents the radical of a nitrated diphenyl-amine, Alk designates an alkylene radical having not more than four carbon atoms, while Z represents the radical of a dibasic carboxylic acid whose alkali-metal salts are water-soluble and which is attached to the Alk radical in the form of an ester by means of one of its

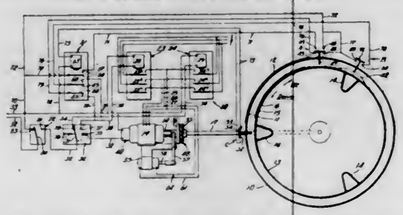


2,285,517

AUTOMATIC POSITIONING MEANS

Herbert Harvey and Ralph S. Thacker, Los Angeles, Calif., assignors to Leo M. Harvey, La Canada, Calif.

Application July 26, 1941, Serial No. 404,180
12 Claims. (Cl. 192—135)



1. In combination, a moving element, power means for moving the element, means for reversing the power means, the reversed power means serving to reduce the inertia of the rotating element, means for rendering the power means ineffective in either direction a given time following operation of the reversing means and for holding the elements against movement when the inertia of the element has reached a very low value and before the element has begun reverse movement, and switch means for initiating operation of the reversing means.

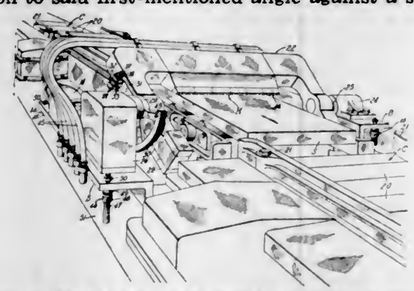
2,285,518

METHOD OF AND APPARATUS FOR CONDITIONING METAL BODIES

Homer W. Jones, Westfield, N. J., assignor to The Linde Air Products Company, a corporation of Ohio

Application May 11, 1940, Serial No. 334,494
18 Claims. (Cl. 266—23)

1. A method for surface conditioning a ferrous metal body which comprises directing a gaseous stream from a nozzle at an acute angle against a surface of such a body and substantially in the direction toward successive portions to be conditioned; providing relative movement between said nozzle and said surface in a forward direction to advance the conditioning operation along said surface in the general direction of flow of said stream; shifting said nozzle through an arc about an axis parallel and adjacent to said surface to direct such stream at an acute angle of similar value but opposite position to said first-mentioned angle against a sur-



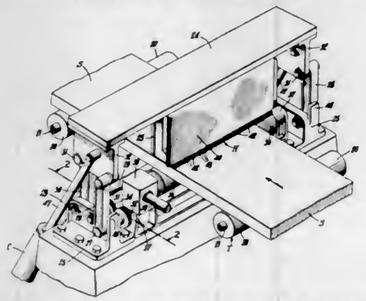
face of said body; and providing relative movement between said nozzle and said body in a reverse direction along said last-mentioned surface to condition said last-mentioned surface.

2,285,519

APPARATUS FOR CONDITIONING METAL BODIES

James H. Bucknam, Cranford, and Alfred J. Miller, Garwood, N. J., assignors to The Linde Air Products Company, a corporation of Ohio

Application February 8, 1941, Serial No. 378,020
14 Claims. (Cl. 266—23)



1. In apparatus for conditioning a surface of a metal body, the combination of a substantially horizontal conveyor for carrying said body and having sections spaced apart; a device operable to condition said surface and movable vertically between said sections to and away from an operative position relatively to a body on said conveyor; mechanism operable to raise said device to said operative position and to lower said device away from said position; and means movable by said mechanism into the space between said sections to cooperate with said sections to support said body.

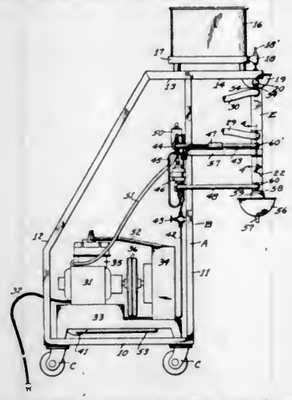
2,285,520

PORTABLE MILK COOLER

Harry C. Keyser, Portland, Oreg.

Application June 30, 1941, Serial No. 400,523
2 Claims. (Cl. 62—141)

1. In a milk cooler of the character described, a frame, said frame having a top, the top extending horizontally beyond the front of said frame so as to overhang said front, a cooling coil element removably suspended from the overhanging portion of said top and spaced from said front, said cooling coil element having horizontally corrugated surfaces for its two faces with cooling pipes located therebetween, a milk-receiving tank supported above said top, a distributing trough removably supported above said cooling coil element and adapted to distribute milk over the surfaces of said cooling coil element at the top, said milk-receiving tank having a spout discharging into said distributing trough, a collecting trough removably suspended from the bottom of said cooling coil element, a mechanical refrigerating unit mounted in said frame, means connected with said refrigerating unit for circulating refrigerant in said cooling coil element, said means including a pressure switch and an expansion valve and an automatic control for regulating the delivery of refrigerant to said cooling coil element in accordance with the milk cooling required, whereby, when milk is permitted to pass from said receiving tank into said distributing trough and thence to



flow downwardly over the corrugated surfaces of said cooling coil element, the milk will be cooled by passing over said cooling coil element before being collected in said bottom collecting trough, and whereby said pressure switch and expansion valve and control means will insure predetermined amount of cooling of the milk but prevent unnecessary cooling of said cooling coil element, supporting wheels mounted on the base of said frame to permit said cooler to be moved easily about, a discharge spout in said bottom-collecting trough, said cooler being of proper size and heighth to permit said collecting trough to be supported at a heighth from the ground slightly in excess of the heighth of a conventional-size milk can, whereby said cooler can be moved into and out of position with respect to the milk can without requiring any unnecessary moving of the milk can.

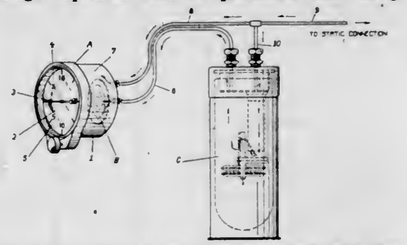
2,285,521

VERTICAL SPEED INDICATOR

Paul Kollsman, New York, N. Y., assignor, by mesne assignments, to Square D Company, Detroit, Mich., a corporation of Michigan

Continuation of application Serial No. 28,954, June 28, 1935. This application March 30, 1939, Serial No. 265,064
20 Claims. (Cl. 73—179)

13. In a vertical air speed responsive instrument, the combination of a chamber enclosing a substantial volume of air; a constricted passage connecting said chamber with the atmosphere; a differential pressure responsive member connected to respond to a difference in pressure inside said chamber and the atmosphere, respectively; a movable member connected to be actuated by said pressure responsive member; and an element responsive both to variations in pressure and temperature of the air inside said chamber and connected to increase and decrease the resistance of said passage to a flow of air therethrough upon a rise in pressure and drop in



temperature, and a drop in pressure and rise in temperature, respectively, whereby said member will be moved in true response to a vertical air speed, irrespective of changes in altitude and viscosity of the air.

2,285,522

PLANT SUPPORT

Fred F. Lawrenz, Dallas, Tex.

Application May 16, 1940, Serial No. 335,442
1 Claim. (Cl. 47—47)



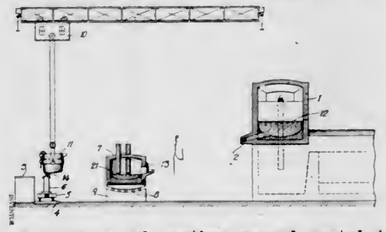
A plant holding device comprising a soil piercing upright support formed of wire and bent abruptly at right angles at its upper end and curved to define a portion of a loop lying on a horizontal plane, a second wire shaped to define the remainder of said loop and having one end held against other than pivotal movement to the free end of said first loop portion, to be supported solely by the support of said first looped portion and whereby the loop formed thereby will embrace a plank stalk and means carried jointly by said upright support and said pivoted wire to secure the free end of the latter to said support.

2,285,523

PRODUCTION OF SOUND METAL INGOTS

Lewis Byron Lindemuth, Port Washington, N. Y.

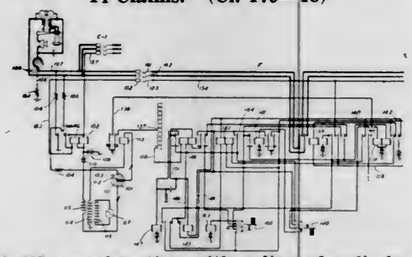
Application January 19, 1939, Serial No. 251,659
2 Claims. (Cl. 22—216)



1. A method of casting sound metal ingots which comprises: preparing a molten bath of the metal for casting and tapping into a ladle, transferring a portion of the ladle charge to a tiltable, stationarily positioned electric furnace for maintaining it molten, and casting the remainder into a series of ingot molds, floating a retaining form on the metal in each of said molds, and blanket-

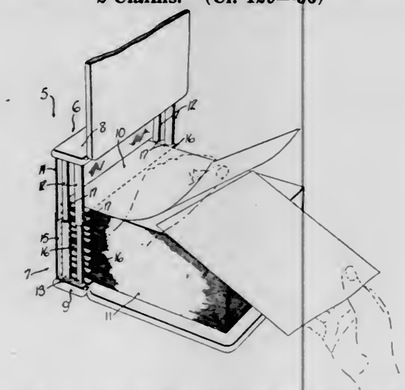
ing the metal therein with a buoyant and permeable heat-insulating medium, allowing said metal to solidify until only the cores of said castings remain molten, tapping the metal from said electric furnace into a ladle and casting a portion thereof into each of said molds until the metal rises to a level within the form, and allowing the castings in said molds to solidify throughout.

2,285,524
TELEPHONE SYSTEM
Mason A. Logan, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 30, 1940, Serial No. 326,857
14 Claims. (Cl. 179—18)



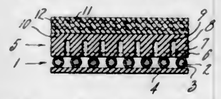
1. The combination with a line of a discharge device having a main gap and a control gap, circuit means controlled over said line for causing a discharge across said control gap, means for causing a discharge across said main gap in response to the discharge of said control gap, a source of potential acting to quench the discharge of said control gap, and a second source of potential connected in serial relation with said first source to quench the discharge of said main gap.

2,285,525
LOOSE-LEAF BINDER
Adolph G. Lotter, Milwaukee, Wis., assignor to Stationers Loose Leaf Company, Milwaukee, Wis., a corporation of Wisconsin
Application March 24, 1941, Serial No. 384,783
2 Claims. (Cl. 129—36)



1. In a loose leaf binder of the type adapted to hold a stack of leaves solely through friction developed by the exertion of a clamping force on the stack of leaves: a binder back comprising complementary back sections, cooperating telescoping means carried at the ends of said back sections to guide the same for movement toward and from each other, each of said back sections including a clamping head; and a stack of leaves having one end positioned between said clamping heads and clamped thereby, said stack comprising leaves fitting entirely between said cooperating telescoping guide means so as to be unrestrained against withdrawal from the stack except by the clamping force of the clamping heads whereby said leaves are readily insertable and removable from the stack upon relative movement of the back sections away from each other to carry the clamping heads out of clamping relationship with the stack of leaves, and other leaves having portions thereof extending outwardly of the sides of the stack at said end thereof connected to the cooperating telescoping guide means wholly exteriorly of the stack of leaves so as to be restrained against withdrawal from the binder in a direction lengthwise of the leaves, said restrained leaves being disposed at spaced apart levels of the stack and having friction means thereon in the clamping zone defined by said clamping heads engaging adjacent unrestrained leaves to hold the same against accidental displacement while the clamping heads are in clamping position with respect to the stack of leaves.

2,285,526
METHOD FOR PRODUCING CAVITIED RUBBER SHEETING
James U. Mann, Arlington, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application May 13, 1939, Serial No. 273,470
4 Claims. (Cl. 154—2)

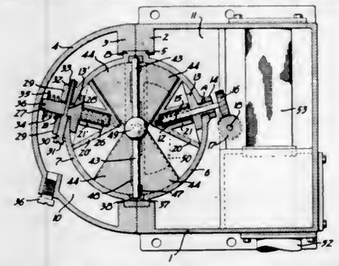


1. The method of making a rubber sheet having cavities in the surface thereof which comprises depositing a film of latex composition onto a deposition blanket, concurrently drying or gelling said film and piercing said film with a plurality of fluid jets to form permanent perforations therein, depositing a film of latex onto said film and concurrently drying or gelling and piercing said second named film, repeating said operations until a perforate rubber sheet is built up, and thereafter depositing a sealing film of latex composition onto said perforate rubber sheet to bridge over and thereby seal exteriorly without filling up, an opening of each perforation, drying or gelling said sealing film so that it remains imperforate, and removing the cavitied, built-up blanket from the first-named deposition blanket.

2,285,527
LIQUID METERING DEVICE
Thomas A. McCoy, Emeryville, Calif., assignor to Granberg Equipment Inc., Oakland, Calif., a corporation of California
Application August 29, 1939, Serial No. 292,427
7 Claims. (Cl. 73—253)

1. In a liquid meter, a hollow, spherical housing, a rotor revoluble therein, said rotor comprising a plurality of pairs of blades extending from slidable engagement at one of their edges with the walls of said housing toward a point centrally therein, the said edges of the blades, respectively, in slidable engagement with said walls, being longitudinally curved to conform to the spherical contour of the inner sides of said

walls, each of said blades being formed with substantially straight edges extending convergently toward said central point from its curved edge, pivot means pivotally mounting two of the straight edges of the blades of each pair for rotation thereof about an axis extending through said point, with the blades of each such pair extending oppositely from said axis, means revolvably supported on the walls of said housing mounting said pivot means for revolving about said point while the blades are pivotally sup-



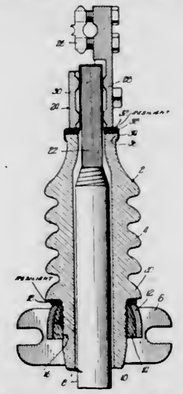
ported on said pivot means, means mounting the others of the straight edges of said blades respectively for swinging said blades on said pivot means, relatively, during each revolution of said pivot means, and an inlet and an outlet for liquid at spaced points in said walls respectively positioned to be scanned by the curved edges of said blades in succession during revolution of the blades in said housing, said blades being positioned relative to each other and to said inlet and outlet to be actuated for revolving in said housing upon admission of liquid to said inlet.

2,285,528
NECKTIE CONSTRUCTION
Valentine Naftali, New York, N. Y.
Application August 13, 1938, Serial No. 224,716
2 Claims. (Cl. 2—146)



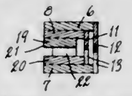
1. A necktie designed to automatically form a dimple when made up into a knot comprising an outer fabric and an inner lining, the opposed longitudinal edges of said fabric being inwardly folded towards each other at the back of the tie so as to overlap, with the exception of a predetermined portion thereof, the opposed longitudinal fabric edges at such predetermined portion being spaced from each other to define a recessed portion at the back of said tie, said recessed portion being disposed in the knot forming area whereby a dimple or drape will be automatically formed beneath said knot when the tie is made up, said lining being attached to said fabric by a single row of stitching passing through said overlapped fabric edges and extending substantially from the said overlapped edges adjacent one end of said tie, to the beginning of said recessed portion, and separate rows of stitching adjacent the fabric edges on opposite sides of said recessed portion, said last named rows of stitching passing through said last named fabric edges and said lining.

2,285,529
ELECTRICAL CONNECTION FOR POTHEADS AND METHOD OF FORMING SAME
Andrew E. Papp, Chicago, Ill., assignor to G & W Electric Specialty Co., Chicago, Ill., a corporation of Illinois
Application February 23, 1940, Serial No. 320,399
6 Claims. (Cl. 174—75)



5. An electrical connection for a pothead, comprising in combination a hollow insulator member having an open end formed with an exteriorly disposed shoulder, a cable disposed in said insulator member and having its conductor extending through and beyond said open end, a closure cap of yieldable wall construction fitting over and embracing the end of said conductor to provide for an electrical connection therethrough, said cable being secured to said closure cap by means external thereof, said closure cap having an enlarged end portion locked to said insulator member through said shoulder and being readily destructible for removal of said closure cap from said insulator member without injury to said insulator member.

2,285,530
PISTON RING
Harold P. Phillips, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich.
Application May 5, 1941, Serial No. 391,924
4 Claims. (Cl. 309—45)



1. A composite piston ring assembly comprising spaced thin split flat side members disposed to present their edges to a cylinder wall, a thin split flat intermediate member disposed to present its edge to the cylinder wall and in side

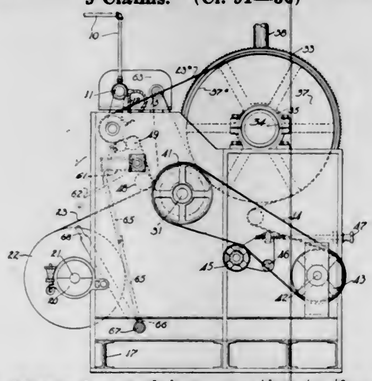
by side relation to one of said side members for independent radial movement thereto, a vented spacer disposed between said intermediate member and the other side member, an inner annular expander acting on said side members, and an outer annular expander acting on said intermediate member independently of the action of said inner expander on said side members, said side members, intermediate member and spacer member being associated for free independent radial movement.

2,285,531

APPARATUS FOR APPLYING SURFACE COATINGS, AS PAINT, TO PAPER, AS BREAD WRAPPING PAPER, ETC.

Cecil M. Rhodes and Lyle L. McGladrey, St. Paul, Minn., assignors to Rapinwax Paper Company, Minneapolis, Minn., a corporation of Minnesota

Application January 18, 1939, Serial No. 251,516
9 Claims. (Cl. 91—30)



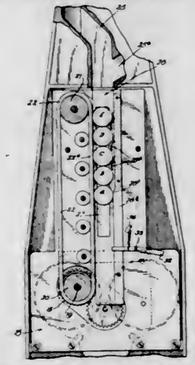
1. Means for applying a coating to the opposite sides of a sheet of paper comprising a roller, means for carrying the sheet over the roller, coating material discharge tubes pivotally supported adjacent the outer surface of said paper and adjacent to the face of the roller opposite the sheet and means connecting said discharge tubes and manually actuatable to turn said spreader tubes away from said roller and paper for the purpose set forth.

2,285,532

PARKING METER

David C. Rockola and Arvid Dahlstrom, Chicago, Ill.; said Dahlstrom assignor to said Rockola

Application January 29, 1940, Serial No. 316,074
13 Claims. (Cl. 194—1)



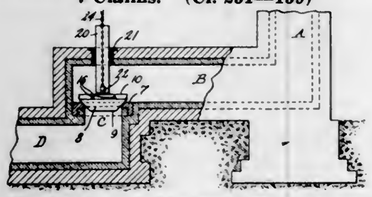
1. A parking meter comprising a casing provided with a sight opening for displaying inserted coins, means comprising a member adapted to engage and move an inserted coin in visual relation with respect to said opening through a given distance and at a velocity to define a parking period, a chute for directing such inserted coin into a position for engagement by said moving member at the beginning of said parking period, and mechanism for preventing the delivery of a second inserted coin to a position for engagement by said moving member during a portion of the foregoing parking period.

2,285,533

DAMPER OR VALVE

Jay L. Roof, Hamburg, N. Y.

Application June 21, 1940, Serial No. 341,698
7 Claims. (Cl. 251—159)



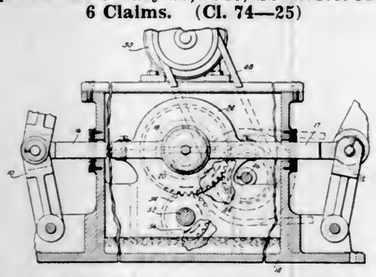
1. An air cooled damper arranged to cooperate with an annular seat in a duct in which hot gases are induced to flow by suction, said damper being hollow and substantially of mushroom shape and having an annular substantially frusto-conical wall forming a seating portion, transverse walls formed integral with the opposite annular end zones of said seating portion, means for admitting cooling air into the interior of said damper through one of said transverse walls, means for deflecting the cooling air against the middle portion of the opposite transverse wall and deflecting the same outwardly therefrom, and air discharge openings in said damper and located adjacent to the outer edge of said first transverse wall, to cause air to flow against said opposite transverse wall and across the interior of said frusto-conical wall to said discharge openings.

2,285,534

MECHANICAL MOVEMENT

George F. Ryan, Peabody, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey

Application January 27, 1940, Serial No. 315,951
6 Claims. (Cl. 74—25)



1. A mechanical movement comprising a rotatable sleeve, a shaft carried by the sleeve and mounted for rotation about its own axis and for movement bodily about the axis of the sleeve, a crank carried by the shaft and normally extending radially of the sleeve and having its radius

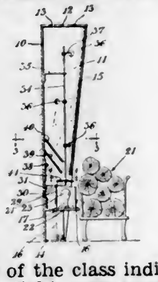
equal to the distance between the axis of the shaft and the axis of the sleeve, gears normally operative to cause angular movement of the shaft about its own axis and bodily movement of the shaft about the axis of the sleeve at the same speed thereby to rotate the crank on the axis of the sleeve, and means associated with the gears for varying their relative speeds of rotation thereby to cause the crank to revolve bodily about the axis of the sleeve.

2,285,535

FIREPLACE DISPLAY

Otto Schlett, Bronx, N. Y.

Application March 4, 1941, Serial No. 381,628
11 Claims. (Cl. 272—15)



6. In a device of the class indicated, the combination with a light source, of a translucent screen sharply inclined in one direction in respect to the latter, a major light reflector, an images-producing panel interposed between the reflector and the screen, said panel being inclined in an opposite direction to that of the screen in respect to the light source, a rotary member above the light source, light intensity controlling means and miniature light reflecting elements operative with said rotary member.

2,285,536

MIXED CELLULOSE ESTERS

George W. Seymour and Blanche B. White, Cumberland, Md., assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application October 14, 1940, Serial No. 361,104
11 Claims. (Cl. 260—225)

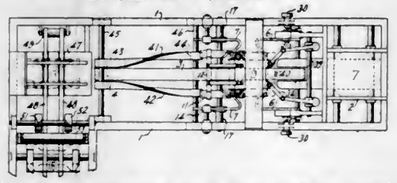
1. A method for the production of carboxylates of cellulose esters, which comprises esterifying cellulose with an anhydride of a lower aliphatic acid in a solvent for the cellulose ester produced using sulphuric acid as catalyst, ripening the cellulose ester, neutralizing the sulphuric acid present in the ripening solution with an excess of weak neutralizing agent, and treating said ripened cellulose ester with an anhydride of an organic carboxylic acid in the ripening solution.

2,285,537

INFOLD AND OUTFOLD BOX MACHINE

Melvin H. Sidebotham, West Newton, Mass.

Application January 23, 1940, Serial No. 315,187
19 Claims. (Cl. 93—49)



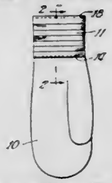
1. The combination in a box making machine, a folding rod having a hook at one of its ends and a driving pin at the other end, with a pivot pin secured intermediate the rod ends, and a rod bracket having a horizontal slot for the pivot pin and a vertical and horizontal slot therein to engage the driving pin.

2,285,538

GLOVE

Milton R. Simon, Chicago, Ill., assignor to Western Hosiery Company, Chicago, Ill., a corporation of Illinois

Application June 7, 1941, Serial No. 397,046
7 Claims. (Cl. 2—164)



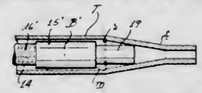
1. In a glove, the combination of an outer ply of fibrous material, an inner lining ply of fabric secured to said outer ply at their wrist openings, and an unbroken rubber sheath between said inner and outer plies and free from one of said plies and bonded only loosely to the other ply through the medium of a comparatively small proportion of the filaments projecting from the face of said other ply for movement with respect thereto except for a limited zone adjacent to the wrist opening at which the rubber is firmly bonded to the major portion of the surface filaments of said other ply.

2,285,539

DRAWING MANDREL OR PLUG

John A. Staples, University City, and Tannie Lewin, Clayton, Mo., assignors to Lewin-Mathes Company, East St. Louis, Ill., a corporation of Delaware

Application June 9, 1941, Serial No. 397,221
5 Claims. (Cl. 205—7)



1. A seamless tube drawing-mandrel integrally including a substantially cylindrical body-section and a diametrically reduced cylindrical nose-portion projecting forwardly from the body-section for impinging engagement at its free-end margin with the pointed end of a tubing-section being drawn for preventing engagement of the body-section with such tubing-section during the initial die-positioning of the mandrel for a drawing operation.

2,285,540

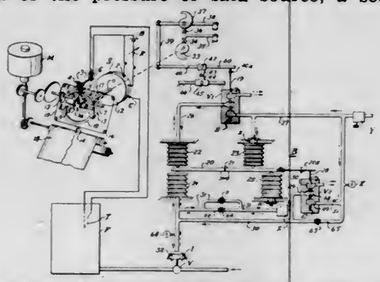
CONTROL SYSTEM

Irving M. Stein, Philadelphia, and Jacob Clarence Peters, Jenkintown, Pa., assignors to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania

Application July 1, 1939, Serial No. 282,566
6 Claims. (Cl. 236—82)

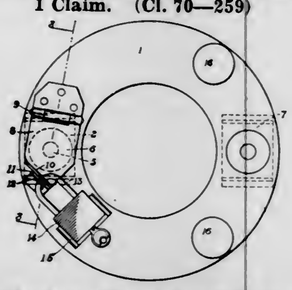
1. In a system comprising pressure-responsive means adjustable to affect the magnitude of a condition and a primary control member positioned in accordance with the existing magnitude of said condition, a secondary control member, a pair of pressure-responsive devices opposed in their effects upon said secondary control member, a source of pressure directly con-

nected to one of said devices continuously to subject it to the pressure of said source, a valve between said source and the other of said devices controlled by said primary control member to produce unbalance of the opposed effects of said devices upon displacement of said primary control member from its normal position at which said effects are balanced irrespective of variations of the pressure of said source, a second



pair of pressure-responsive devices opposed in their effects upon said secondary control member and interconnected by means delaying equalization of their pressures, and a valve movable by said secondary control member during unbalance of the effects thereon of said pairs of devices to vary the pressure applied to said pressure-responsive means and to one of the last-named pair of said devices.

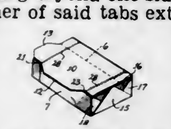
2,285,541
WHEEL LOCKING DEVICE
Stanley H. Swift, Saginaw, Mich.
Application February 5, 1942, Serial No. 429,633
1 Claim. (Cl. 70—259)



A wheel locking device comprising in combination an annular plate, a bracket fixed to the inner face of said plate and having a web spaced from the plate and provided with a hole for receiving a wheel-attaching stud, said bracket presenting an encasement for a nut on such stud, a similar bracket on said inner face and substantially opposite the first-mentioned bracket, a hole being provided in said plate opposite the hole in each bracket web and adapted to receive the nut and also a socket wrench for said nut, a movable cover mounted on the outer face of said plate adjacent at least one of the holes in the plate, and a lock adapted to releasably secure such cover and plate together.

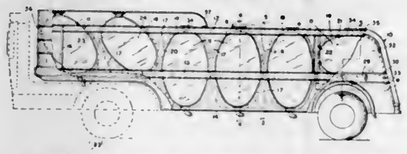
2,285,542
WRAPPER
Homer G. Tasker, Los Angeles, Calif.
Application July 15, 1939, Serial No. 284,775
5 Claims. (Cl. 229—51)

1. A package wrapper comprising a pair of tabs integral to one side of said wrapper, one of said tabs extending beyond one side of said package, and the other of said tabs extending beyond



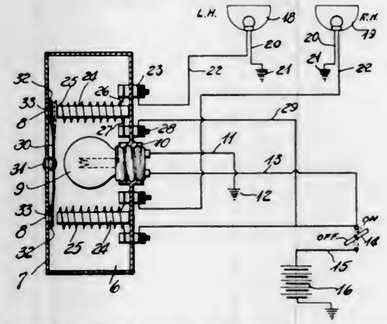
one end of said package, said wrapper having a substantially parallel ring of perforations adjacent one end of said package, and spiral perforations adjacent the other end of said package.

2,285,543
VEHICLE CONSTRUCTION
Lewis H. Thomas, Grosse Pointe, Mich.
Application January 13, 1941, Serial No. 374,294
13 Claims. (Cl. 280—5)



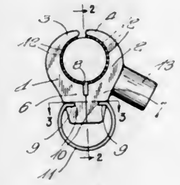
1. A vehicle having truss structure at opposite sides thereof and having a plurality of individual tanks extending transversely of the vehicle between the truss structures, and means removably securing opposite ends of the tanks to the truss structure independently of each other and permitting removal of the tanks through the top of the vehicle.

2,285,544
TELLTALE FOR AUTOMOBILE LIGHTS
Richard B. Trogan, Saginaw, Mich.
Application June 22, 1940, Serial No. 341,829
1 Claim. (Cl. 177—329)



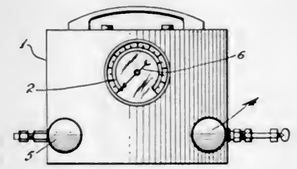
A visual indicator for automobiles comprising a light-proof closed housing having a plurality of openings in the cover plate thereof; a felt strip surrounding each opening on the inner face of the cover plate, resilient magnetic members mounted on the cover plate at a point intermediate their length, with the free ends normally disposed to form a closure for certain of said openings; an illuminating source in said housing; electro-magnets mounted in said housing in alignment with said openings, said magnets attracting and drawing the free ends of the resilient members downwardly against the ends of the electro-magnet cores to uncover the openings in the cover plate and permit the illuminating source to shine therethrough.

2,285,545
BATTERY CABLE TERMINAL
Reinhard P. Wagner and Frank H. Shackelford, Spokane, Wash.
Application March 1, 1941, Serial No. 381,298
3 Claims. (Cl. 173—259)



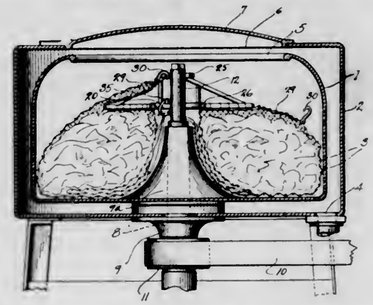
2. A device of the character described, comprising companion sections for engagement about a battery post, said sections having forward portions curved longitudinally to form jaws for engaging about and gripping the post, rear end portions of the sections being thickened to form heels having confronting inner surfaces in face to face engagement with each other, outer side faces of the heels being formed with transversely extending grooves, a resilient member having arms terminating in inwardly extending portions engaged in said grooves, the resilient member urging the sections to gripping position and normally holding the inner side faces of the heels in face to face engagement with each other, and means for connecting one section with a cable, the confronting inner side faces of the heels having registering recesses forming a slot having side walls and adapted to receive a tool for engaging side walls of the slot and prying the sections away from each other out of gripping position.

2,285,546
COMPRESSION CHAMBER LEAKAGE TESTER
Martin Wefers, Union, N. J., assignor to Claude J. Parkhill, Newark, N. J., Richard F. Tighe, Maplewood, N. J., and Walter W. Stillmen, Tenafly, N. J.
Application August 5, 1939, Serial No. 288,535
2 Claims. (Cl. 73—51)



1. In a device of the character described, a conduit for connection at one end to a source of compressed fluid and at the other end to an enclosed chamber to be tested for leakage, valves for controlling the ingress and egress of compressed fluid into and out of said conduit, a pressure gauge connected to said conduit for measuring pressures therein under both no-leak conditions and leakage conditions, and a restricted passage in said conduit adjacent the point of connection of said pressure gauge, said restricted passage and the point of connection of said pressure gauge being located between said valves.

2,285,547
EXTRACTOR LOADING AND UNLOADING EQUIPMENT
George Milton Whelan, Bothell, Wash., assignor of one-half to North Coast Cleaners & Dyers, Inc., Seattle, Wash., a corporation of Washington
Application July 1, 1940, Serial No. 343,391
10 Claims. (Cl. 210—76)



1. In a device of the character described, a lifting spider, a tubular, open end bag secured at its upper end to said spider for suspension thereby and for the reception of articles through that end for discharge at its lower end, and means on the spider adapted to support the lower end portion of the container in an upwardly folded position for the retention of the articles in the container and means applied to the bag at its upper end for application to the spider to retain that end of the bag closed, and releasable from the spider for opening the bag.

2,285,548
PROCESS FOR ELECTRODEPOSITING AN ADHERENT COATING OF COPPER ON CHROMIUM - CONTAINING ALLOYS OF IRON AND/OR NICKEL
Andrew Wesley, Plainfield, N. J., assignor to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application December 1, 1937, Serial No. 177,462
4 Claims. (Cl. 204—34)

1. A process for producing copper plated chromium-containing bodies capable of withstanding accentuated cold rolling, drawing or working without separation of the copper plating therefrom which comprises degreasing a body containing about 79% nickel, about 7% iron and about 13% chromium, immersing said body in a preparatory solution containing about 240 grams per liter of nickel chloride and about 36 grams per liter of hydrochloric acid, making said body the anode of an electric circuit having nickel electrodes as cathodes, passing a current of about 20 amperes per square foot through said solution for about 2 minutes at a temperature of about 70° F., making said body the cathode and said nickel electrodes the anodes in said circuit, passing a current through said circuit at a current density of about 20 amperes per square foot until a protective layer of nickel has been deposited on said body, only then removing said nickel plated body from said preparatory solution and transferring said nickel plated body to a copper plating bath containing about 200 grams of copper sulfate and about 100 grams of sulfuric acid per liter, and electroplating thereon a layer of copper at a current density of about 50 amperes per square foot whereby a composite

chromium containing body having a copper plating and capable of withstanding severe cold working without separation of the copper layer from the aforesaid body is produced.

2,285,549

PROCESS OF ELECTRODEPOSITING AN ADHERENT LAYER OF COPPER FROM COPPER REFINERY ELECTROLYTE ON ALLOYS OF IRON AND/OR NICKEL CONTAINING CHROMIUM

Andrew Wesley, Plainfield, and Harry R. Copson, Westfield, N. J., assignors to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application April 26, 1938, Serial No. 204,304
6 Claims. (Cl. 204—34)

1. A process for utilizing copper refinery tank house electrolyte containing antimony in amounts greater than about 0.1 gram per liter to produce a composite body capable of being worked including cold rolling and drawing which comprises anodically activating a degreased body of nickel-chromium alloy at about 20 amperes per square foot for about 2 minutes in an aqueous electrolyte containing about 36 grams of hydrochloric acid per liter and about 240 grams of nickel chloride per liter and in the presence of pure nickel electrodes to obtain a body of nickel-chromium alloy having an active surface, reversing the polarity of said body and electrodepositing a film of nickel on said active surface from said aqueous electrolyte during a period of about 2 minutes at a current density of about 20 amperes per square foot to obtain a body of nickel-chromium alloy having a protected surface, without rinsing, transferring said body having a protected surface to a first aqueous copper electrolyte containing about 200 grams of copper sulphate per liter, about 100 grams of sulfuric acid per liter and being substantially devoid of antimony in amounts sufficient to reduce the breaking load of the bond between the body of nickel-chromium alloy and the copper electrodeposited thereupon below about 9000 pounds per square inch, electrodepositing a film of copper about 0.001 inch thick thereon to obtain a protected body of nickel-chromium alloy having a film of copper thereon, anodically treating the copper surface of said protected body for about 3 minutes at a current density of about 13 amperes per square foot in an aqueous impure copper plating electrolyte comprising copper refinery tankhouse electrolyte, reversing the polarity of said protected body and electrodepositing a relatively thick layer of copper from said impure copper electrolyte comprising copper refinery tankhouse electrolyte containing antimony in amounts greater than about 0.1 gram per liter to produce a composite body comprising a base of nickel-chromium alloy, a protective film of nickel, a film of copper, and a relatively thick layer of copper, the bond between said body of nickel-chromium alloy and said thick layer of copper being capable of withstanding a breaking load of at least 9000 pounds per square inch, and cold working said composite body to produce a worked body without rupture of the aforesaid bond.

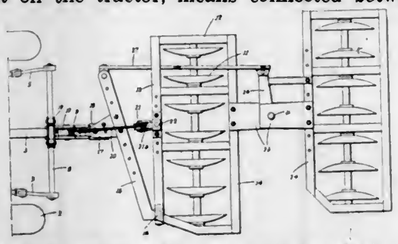
2,285,550

DISK CONTROL AND DRAFT UNIT

Andrew Woods, Porterville, Calif., assignor of one-half to George Easton, Porterville, Calif.

Application May 31, 1941, Serial No. 395,937
16 Claims. (Cl. 55—83)

1. In the combination of a tractor and tandem disk gangs connected thereto in draft relation; a disk control and draft assembly comprising a draw bar on the tractor, a beam rigidly mounted on the rear end portion of the draw bar and projecting laterally therefrom at a rearward angle, the forward disk gang including a frame extending transversely of the direction of travel, means pivoting the outer end of said beam to said gang frame at the front and adjacent one end, a power unit on the tractor, means connected between



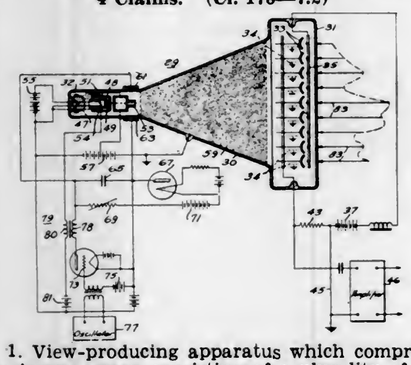
said gang frame and power unit to effect predetermined relative pivotal movement between the gang frame and said beam upon actuation of said power unit, longitudinal connection plates projecting from the forward and rear gangs on adjacent sides, means pivoting said plates together, a rigid lateral arm projecting from the plate of the rear gang, and a tie-bar extending between and pivoted to the outer end of said arm and said beam.

2,285,551

VIEW-TRANSMISSION SYSTEM

Vladimir K. Zworykin, Forest Hills, N. Y., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application December 20, 1938, Serial No. 246,783
4 Claims. (Cl. 178—7.2)



1. View-producing apparatus which comprises an image screen consisting of a plurality of insulation-supported conductive elements having electrically separated surfaces responsive to radiant energy, means for producing a concentrated electron-beam directed to impinge upon at least one of said conductive elements, and means for deflecting said beam to cause it to successively scan said conductive elements.

2,285,552

PRODUCTION OF FILAMENTS

Johannes Alfthan, New York, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 25, 1940, Serial No. 347,492
5 Claims. (Cl. 18—54)

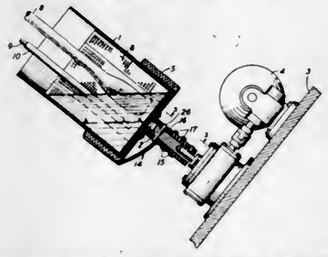
1. Process of manufacturing filaments of polymeric hexamethylene adipamide of circular cross section, which comprises extruding molten polymer through a circular orifice into a quenching liquid having substantially no solvent action on said polymer and maintained at a temperature of 35° C. to 45° C.

2,285,553

METHOD AND APPARATUS FOR ELECTROPLATING MAGNETIZABLE ARTICLES IN BULK

Herbert G. Arlt, Teaneck, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application January 10, 1939, Serial No. 250,125
9 Claims. (Cl. 204—23)



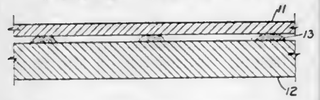
1. Apparatus for electroplating magnetizable articles in bulk which comprises means for supporting a mass of said articles while they are being plated; means for agitating said articles to expose different surfaces thereof for plating; and, associated with said supporting means, an electromagnetic winding which substantially surrounds said articles while they are being plated and which is adapted to produce a continuous magnetic field which induces in said articles sufficient magnetism substantially to maintain electrical contact between said articles while they move relatively to each other during agitation, but which winding is so disposed that it does not produce magnetic forces, tending to urge said articles against said supporting means, which are sufficient to impede the relative movement of said articles with respect to each other and to said supporting means during agitation.

2,285,554

METHOD FOR LINING METAL ARTICLES

Harold R. Austin, South Norwalk, Conn., assignor to The M. W. Kellogg Co., New York, N. Y., a corporation of Delaware

Application July 25, 1940, Serial No. 347,383
6 Claims. (Cl. 219—10)



1. In the method of uniting, by electric resistance welding, an alloy liner sheet to a body of base metal of different analysis to protect a surface of the body of base metal, the steps comprising, positioning a material made up of constituents of the liner sheet on the surface to be lined, placing the liner sheet over the surface to be lined to cover said material, and electric resistance welding the liner sheet to the body of base metal at the position of said material to unite the liner sheet and base metal by weld metal derived from the liner sheet, the base metal and said material, the liner sheet and the base metal having at least one common constituent which is present in the base metal in major proportion, said material containing constituents of the liner sheet in quantities sufficient to substantially compensate for dilution during welding of the liner metal by the base metal, whereby the weld metal is of substantially the same composition as the liner metal.

2,285,555

HAIRPIN

Edith Fromm Barth, New York, N. Y., assignor to Marco Bergmann, New York, N. Y.

Application August 31, 1940, Serial No. 354,965
3 Claims. (Cl. 132—52)



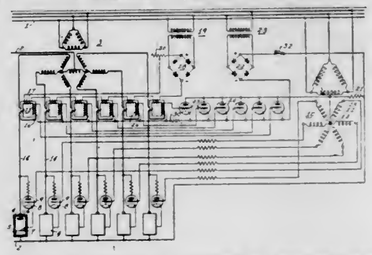
1. An article of manufacture comprising a pair of hairpins of the same construction, each comprising a pair of prongs and a portion interconnecting said prongs, said hairpins being superimposed one on the other in substantial registry, and in parallel planes, and means to attach the interconnecting portion of one to the interconnecting portion of the other, the prongs of one hairpin being somewhat divergent relative to the adjacent prongs of the other hairpin.

2,285,556

VAPOR ELECTRIC DEVICE

Wendell B. Batten, East McKeesport, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

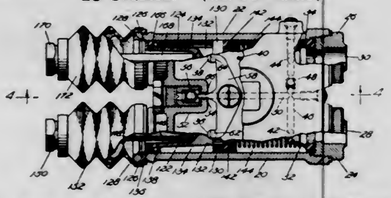
Application July 27, 1940, Serial No. 347,989
7 Claims. (Cl. 175—363)



1. A vapor-electric conversion system comprising a plurality of vapor-electric valves, a source of control energy for said valves, control valves for applying energy from said source to said valves, grid means for controlling the conductivity of said control valves, a grid transformer for supplying potential to said grid means, a resistor connected between said grid transformer and the cathodes of said valves, a core of magnetic material associated with each of said valves and energized by the current flowing thereto, means for saturating the core associated with said valves, a secondary winding on each of said cores, a grid controlled auxiliary valve associated with each of said secondary windings, a source

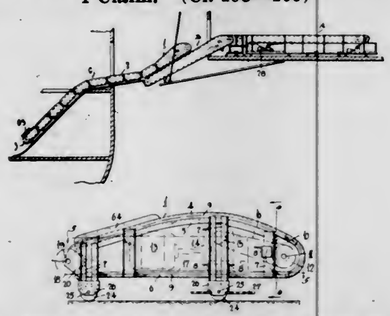
of direct-current potential connected in series with said resistor and with said auxiliary valves for applying biasing potential to said grid transformer.

2,285,557
FLUID PRESSURE SYSTEM
Charles V. Berglund, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California
Application October 25, 1939, Serial No. 301,285
13 Claims. (Cl. 60—54.5)



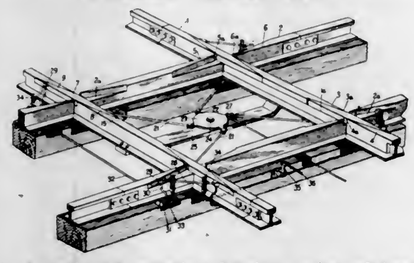
1. A duplex master cylinder unit having two cylinders interconnected by a passage provided with pistons movable in the cylinders for creating pressure, a check valve for control of flow of fluid from one cylinder to the other, a reservoir, and mechanism including a ball valve adapted to be actuated by the pistons operative to provide communication between said reservoir and said passage when both cylinders are relieved of pressure.

2,285,558
LOADING AND UNLOADING CONVEYER APPARATUS
William Bisset, Port Hope, Ontario, Canada, assignor, by mesne assignments, to Mathews Conveyer Company, Ellwood City, Pa., a corporation of Pennsylvania
Original application March 2, 1939, Serial No. 259,443. Divided and this application April 14, 1941, Serial No. 388,567
1 Claim. (Cl. 198—109)



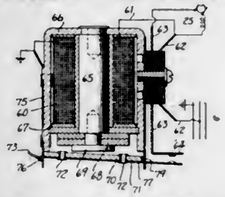
A conveyer apparatus of the character described comprising a plurality of sections, pivotal connections securing each of said sections to adjacent sections to form a flexible articulated conveyer apparatus adapted to be projected into and withdrawn from the storage space of a vessel, supports on each of said sections, wheels on said supports whereby said apparatus may be moved as a unit over irregular surfaces leading to said storage space and bend to conform with the irregularities in said surfaces, an endless pallet conveyer journalled in the end sections of said apparatus for transferring articles to and from said storage space, means carried by one of said end sections for driving said pallet conveyer, and power driven chains connected to one end of said flexible apparatus for projecting the same into and withdrawing it from said storage space.

2,285,559
RAILROAD CROSSING
Clyde H. Blair, Marion, Ohio
Application April 4, 1941, Serial No. 386,939
5 Claims. (Cl. 246—378)



1. A railroad crossing having pairs of tracks extending in different directions, each of said tracks adjacent the intersection having its upper edge cut away to provide pointed portions at its inner and outer edges which extend towards each other but which are spaced from each other, a movable track section pivotally mounted at the intersection for movement in a horizontal plane, said movable track section having pointed ends which will cooperate with said pointed portions of either track to provide a continuous track of uniform width, and means for swinging said track sections into either of said positions.

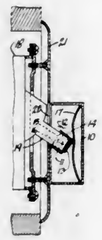
2,285,560
ELECTROMAGNETIC DEVICE
Joseph L. Bonanno, Maplewood, N. J., assignor to The Lionel Corporation, New York, N. Y., a corporation of New York
Original application August 31, 1935, Serial No. 38,734. Divided and this application March 22, 1939, Serial No. 263,386
3 Claims. (Cl. 175—338)



1. An electromagnetic device having a U-shaped magnet frame, a core secured to the bottom of the U, a magnetic shunt between the core and the frame and disposed adjacent the ends of the frame, a coil wound about the main portion of the core, the core having a portion beyond the magnetic shunt of smaller cross section than the main portion of the core, a polar enlargement carried by the core and having a gap area at least equal to the cross section of the main core, a lag ring fitted about the smaller cross section of the core, the frame, core, and shunt being fixedly secured together and forming a continuous path of ferro-magnetic material, and an armature extending across the end of the U and normally out of contact with at least one end of the frame, the lag ring and shunt acting to offer a path of high magnetic impedance between the shunt and armature for alternating current flux without appreciably affecting direct current flux,

whereby the device will function on a very much lower direct current voltage than the maximum ineffective alternating current voltage.

2,285,561
SWITCH MANIPULATING MEANS
Eli Botuck, New York, N. Y.
Application April 9, 1941, Serial No. 387,586
11 Claims. (Cl. 200—172)



1. Electric switch manipulating means for throwing the swingably mounted handle of a switch, said handle projecting through an opening in the escutcheon plate of the switch, said means having a member for gripping the projecting portion of the handle, and a housing over said member, said housing being open on its side toward the escutcheon plate, said member being pivotally mounted in the housing to accommodate the swinging of the handle when the housing is moved opposite the escutcheon plate to throw the handle into its positions for opening and closing the switch.

2,285,562
STYRENE COPOLYMER COMPOSITION
Edgar C. Britton, Gerald H. Coleman, and John W. Zemba, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application July 29, 1939, Serial No. 287,406
6 Claims. (Cl. 260—36)

1. An elastic extensible plastic composition comprising a solvent-swellable plastic co-polymer of styrene and an unsaturated ester containing at least two olefinic linkages, and at least about 50 per cent by weight thereof of a compatible plasticizing agent.

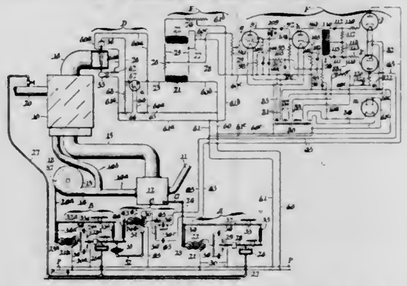
2,285,563
SUBSTITUTED DIHYDROXY-DIPHENYLS
Edgar C. Britton and John E. Livak, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Original application June 23, 1939, Serial No. 280,846. Divided and this application May 2, 1941, Serial No. 391,510
2 Claims. (Cl. 260—620)

1. A substituted dihydroxy-diphenyl compound having the general formula



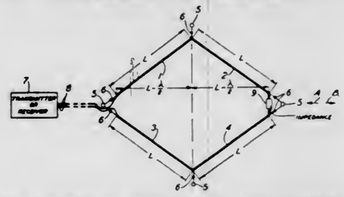
wherein R represents a cycloalkyl group.

2,285,564
COMBUSTION CONTROL
George A. Brooke, Jr., Philadelphia, and Carl C. Chambers, Lansdowne, Pa., assignors to Brooke Engineering Company, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application April 10, 1939, Serial No. 267,104
3 Claims. (Cl. 236—15)



1. In a system for controlling a supply of combustion fluid to a furnace by means including a sensitive cell controlled by the quality of the furnace gases, the combination with a source of rays and a sensitive cell exposed to rays from said source passing through the furnace gases, and electro-motive means acting, according to its direction of operation, to increase or reduce the supply of such combustion fluid; of an electronic amplifier for amplifying the output from said cell, and a transformer with its primary connected to receive the amplified output; a source of voltage and a transformer having its primary connected to be affected by the voltage therefrom; a balancing circuit, including the secondaries of said transformers, wherein voltages induced by those in the transformer primaries oppose one another; an electronic amplifying circuit for amplifying the differential voltage from said balancing circuit; means controlled by the amplified differential voltage for supplying electric energy to operate said electro-motive means one way or the other, according to the sign of said differential voltage; and means for pulsating the supply of electric energy to said electro-motive means when the signal voltage approaches a critical value, and for graduating the periods of energy supply according to the strength of the signal voltage.

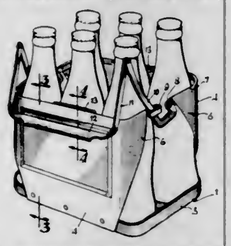
2,285,565
DIRECTIVE ANTENNA
Edmond Bruce, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 3, 1931, Serial No. 513,063
14 Claims. (Cl. 250—33)



1. An antenna comprising two oblique conductors of equal length positioned in a horizontal plane, said length being greater than a half wave length and substantially equal to one half wave length of the desired wave plus the projection of the conductor on a vertical plane including

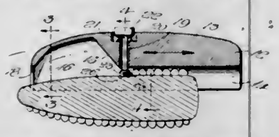
the distant cooperating station and said antenna, one terminal of each conductor being positioned in a plane perpendicularly related to said vertical plane and the remaining terminals of said conductors being superposed.

2,285,566
BOTTLE CARRIER
Henry E. Brunhoff, Wyoming, Ohio, assignor to The Brunhoff Manufacturing Company, Cincinnati, Ohio, a corporation of Ohio
Application June 22, 1940, Serial No. 341,932
2 Claims. (Cl. 224—48)



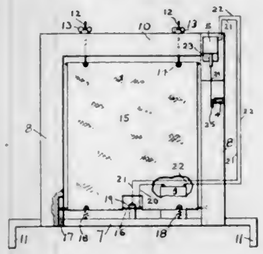
1. A bottle carrying case, comprising a base for sustaining a group of bottles in an upright position, a pair of side walls respectively fixed to the opposite sides of the base and adapted to yield inwardly of the case, each wall above the base having its opposite ends extending laterally inward to overlie the base and confine the bottles within the ends of the case, and a bail having the end of each limb thereof extending at an angle to provide a link for connecting the opposite inturned ends of the walls, pivotally connecting to the inturned end of one wall and slidingly connecting with the inturned end of the second wall, to draw the walls toward each other and impinge the side portions thereof against the bottles interposed therebetween when the case is sustained by the bail.

2,285,567
DEVICE FOR REMOVING CORN FROM THE COB
Arthur B. Carroll, Norfolk, Va.
Application December 31, 1940, Serial No. 372,644
10 Claims. (Cl. 146—4)



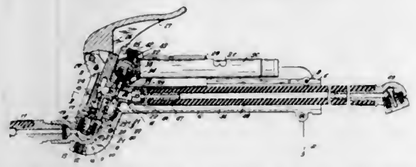
1. A device for cutting corn from a cob, comprising a body, a substantially semi-cylindrical groove formed in one face of the body at one end thereof, at least one cutting blade arranged across said groove, said blade being curved to be substantially concentric to the curvature of said groove and being spaced from the floor thereof, a scraping blade for a cob formed across said face at the other end of said body, said scraping blade having a curved scraping edge conforming substantially in curvature to the curvature of said groove and being in substantial registry with said groove, opposed bosses formed in said groove, opposed tapped holes in said bosses, end portions of said blade being provided with holes, and screws adapted to be passed through said holes in said blade and to be received in said holes in said bosses to connect said blade to said body.

2,285,568
COUNTING MACHINE
George Cobden, Chicago, Ill.
Application April 1, 1939, Serial No. 265,409
1 Claim. (Cl. 235—98)



The combination in a portable counting machine of a supporting structure formed to fit on the top of a container and including a rectangular frame having a base, two side uprights having vertical slots in their opposing faces, and a top piece all four rigidly secured together, a vertically extending flexible curtain having its upper edge adjustably secured to the said top piece, means for adjusting the upper edge of the curtain vertically toward and away from said top piece, said means comprising a screw and a nut, a horizontally extending rod secured to the lower edge of said curtain having its ends slidably fitting into the vertical slots in each side upright whereby flexing of the curtain will cause the said rod to move vertically in the slots, a register and means controlled by the upward movement of said rod for actuating said register.

2,285,569
TIRE INFLATOR
John C. Crowley, Cleveland Heights, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application April 24, 1940, Serial No. 331,450
3 Claims. (Cl. 137—69.5)

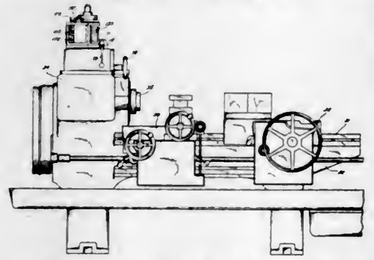


1. A tire inflating device of the character specified comprising a two-part casing having complementary sections secured together, said casing being provided with a spherical cavity to receive a chuck and also with a second cavity in communication with the first named cavity, said casing sections being formed with complementary portions to provide an opening through the casing and communicating with said first cavity and with portions to non-rotatably receive a nut, a nut mounted in said last portions in axial alignment with said opening, a setscrew in said opening and nut, a body in said second cavity and having a bore therein arranged in axial alignment with said opening and shaped to receive a valve insides, said nut and opening being of a size such that said valve insides may be inserted in and removed from said bore through said nut and opening, said body at the open end of said bore being adapted to cooperate with said chuck.

2,285,570
PRESSURE-SENSITIVE ADHESIVE
Corliss F. Cummins and Kenneth D. Bacon, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application March 2, 1940, Serial No. 322,010
9 Claims. (Cl. 260—36)

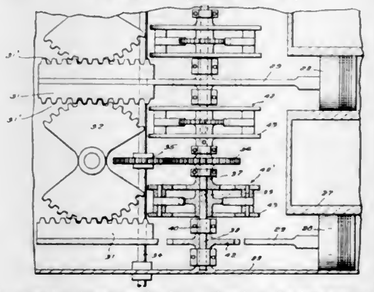
1. A thermoplastic pressure-sensitive adhesive composition essentially comprising polystyrene and from about 1.5 to about 6 parts by weight thereof of an adhesive agent selected from the class consisting of triaryl phosphates and mixtures thereof, said agent having a viscosity between about 25 and about 300 centipoises at a temperature of 60° C.

2,285,571
MACHINE TOOL
Nicholas P. Darash, Cleveland, Ohio, assignor to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio
Application April 30, 1940, Serial No. 332,517
29 Claims. (Cl. 29—64)



1. In a machine tool having a part to be moved at different speeds in the operative cycle, movable means operable for selecting or preselecting the different speeds for said part and including a plurality of preadjusted stop members and a plurality of stop fingers corresponding in number to said members and cooperating with the latter for stopping movement of said movable means in different positions correlated to the different speeds of the movable part in the operative cycle.

2,285,572
DRIVE MECHANISM FOR STEAM OR EXPLOSIVE ENGINES
Daniel S. Dillenbach, Hastings, Nebr.
Application May 20, 1941, Serial No. 394,351
1 Claim. (Cl. 74—577)

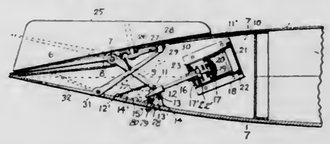


A power transmission device between a sectional drive shaft and a power take-off shaft, one section of the drive shaft having continuous rotary movement and operatively connected to the power take-off shaft and the other shaft section having rocking movement and operatively connected to a power device, said power transmission device comprising a combined fly wheel and ratchet mechanism including a ratchet wheel connected to the rockable section of the drive shaft, a pair of spaced annular members operatively connected to the rotatable shaft section, connectors between the annular members at the periphery thereof, dogs pivoted on the connectors for engaging the ratchet wheel to rotate the annular members in accordance with the movement of the rockable shaft section in one direction, and spacing members on the connectors between the dogs and the annular members.

2,285,573
ZINC CHLORIDE RECOVERY FROM GALVANIZER'S SAL-AMMONIAC SKIMMINGS
Samuel F. Dubs, Los Angeles, Calif., assignor to Morris P. Kirk & Son, Inc., Los Angeles, Calif., a corporation of Nevada
No Drawing. Application August 28, 1939, Serial No. 292,285
1 Claim. (Cl. 23—97)

A method of removing ammonia and ammonium compounds from galvanizer's sal-ammoniac skimmings for the purpose of producing zinc chloride which is substantially free from ammonium compounds, which includes the steps of: heating the skimmings to a temperature of about 300° C. for the purpose of forming a molten bath containing zinc chloride; maintaining said bath at said temperature until the free ammonia has substantially vaporized; raising the temperature of said bath to about 450° C.; agitating the bath until substantially all the zinc chloride ammonia has been vaporized and driven from said bath; dispersing the hot melt in a quantity of water sufficient to form a gel of such consistency that it may be pumped while hot and shoveled when cold; adding hydrochloric acid to said gel in an amount sufficient to convert any zinc oxide carried therein into zinc chloride; and thereafter separating all solid matter from the resulting solution by filtration.

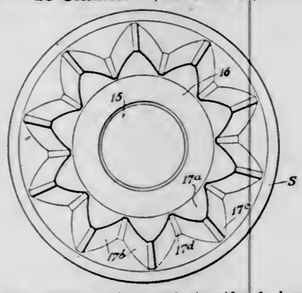
2,285,574
AERIAL BOMB
Leonid A. Dunajeff, New York, N. Y., assignor to Joseph Z. Dalinda, New York, N. Y.
Application January 31, 1939, Serial No. 253,745
5 Claims. (Cl. 102—2)



2. An aerial torpedo comprising an elongated body and wings, adapted to descend in a forward gliding flight at a small angle of inclination to the horizon when dropped from an aircraft, an elevator movably supported on the body, a spring urging the rear end of the elevator upward, releasable means for locking the elevator in position for a gliding descent, and means responsive to atmospheric pressure for releasing the elevator from locked position at slightly above sea level, thereby causing the elevator to turn into an inclined position for raising the front end of the body prior to impact of the body with the surface of water into a position of small angle

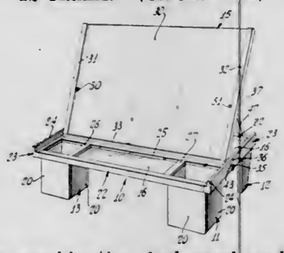
of incidence with the water surface favorable for a ricochetting rebound of the torpedo upon impact with water.

2,285,575
BEVEL GEAR BLANK AND THE METHOD AND MEANS FOR PRODUCING THE SAME
Frank V. Elbertz, Lake Orion, Mich.
Application February 15, 1938, Serial No. 190,587
13 Claims. (Cl. 78—45)



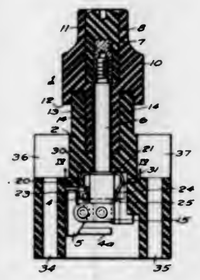
1. In the production of toothed bevel gear blanks, wherein the blank is formed by drop-forging action of a pair of die members movable relative to each other to produce the forging action, and wherein the blank is formed from circular stock of uniform diameter, the method of producing the blank which consists in mushrooming an intermediate zone of the blank by the forging pressure of the dies, splitting the developing mushroom into embryo tooth zones as the mushroom develops, manipulating the metal of the zones by the die formation to cause fibres of the zones to extend angular to the direction of length of the line of service tooth pressure application of the finished gear, and finally disposing of excess metal in the form of a flash of shell formation radially external of the toothed zone by displacing of metal from the outer zones of the toothed zone under conditions substantially free from back pressure to preserve the fibre arrangement within the toothed zone.

2,285,576
BED EASEL CONSTRUCTION
Eleanor Fox, Stamford, Conn.
Application June 28, 1941, Serial No. 400,182
12 Claims. (Cl. 312—163)



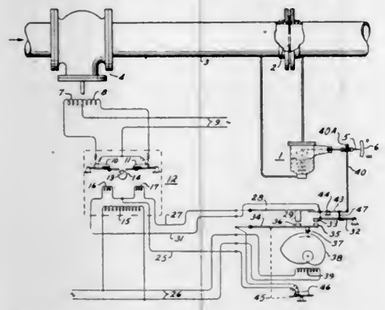
1. In a combination bed easel and invalid's work table, in combination, a substantially flat body, a pair of hollow legs spaced from each other extending downwardly from said body adjacent one side thereof, said legs having openings therein through which the interiors of said legs are accessible, and a pair of legs very much smaller in cross section than said hollow legs extending downwardly from said body adjacent the opposite side thereof.

2,285,577
SWITCH
Clarence E. Gary, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 21, 1938, Serial No. 230,937
8 Claims. (Cl. 200—6)



1. A switch comprising a stationary contact, a movable contact, a rotatable member supporting the movable contact and movable therewith through a predetermined angle to engage the stationary contact, a rectangular element mounted on and transversely of the rotatable element, a pair of leaf springs rotatably mounted on said member and disposed to engage and press against opposite surfaces of the rectangular element in its position corresponding to the normal disengaged position of the rectangular element, and means for holding the leaf springs against rotary motion in response to movement of the rectangular element.

2,285,578
CONTROL SYSTEM
Harvard H. Gorrie, Cleveland Heights, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Application July 2, 1938, Serial No. 217,314
11 Claims. (Cl. 172—239)

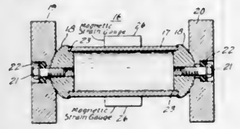


5. A telemetric transmitter comprising a movable member displaceable from and to an initial position, cyclically driven means for producing signals of a time duration directly proportional to the displacement of said member from the initial position, and cyclically driven means for producing signals simultaneously with said first named signals having a time duration inversely proportional to the displacement of said member from the initial position so that the signal of shorter duration is included in the time span of the signal of longer duration.

2,285,579
EMULSIONS
Erich Gröner, Darmstadt, Germany, assignor to Röhm & Haas Company, Philadelphia, Pa.
No Drawing. Application February 28, 1939, Serial No. 258,962. In Germany March 3, 1938
3 Claims. (Cl. 252—311.5)

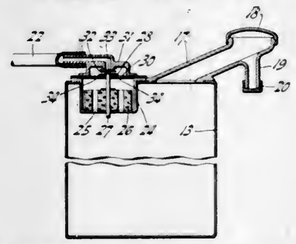
1. An aqueous emulsion stable at temperatures above 80° C. and adapted for waterproofing fabrics, which comprises paraffin emulsified in an aqueous solution comprising water, soap and a salt of a polymerized carboxylic acid selected from the group consisting of acrylic, methacrylic and maleic acids and a water-soluble salt of a heavy metal.

2,285,580
PORTABLE DYNAMOMETER
Harold F. Hanson, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 15, 1939, Serial No. 304,494
2 Claims. (Cl. 265—1)



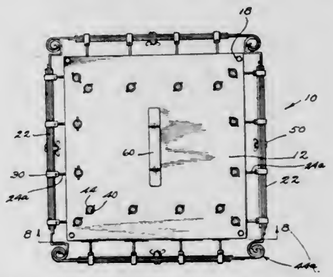
1. A dynamometer for use in a draft gear rigging mounted in the frame members of a vehicle, said dynamometer comprising a cylindrical test section disposed between a pair of rectangular end plates removably disposed in said rigging to react against said frame members, said test section having rounded ends seated in said end plates, bolts countersunk in the end plates and spaced therefrom by resilient material for attaching the end plates to the test section, and means secured to the test section for measuring the deformation of the test section under load.

2,285,581
VEHICLE WATER SYSTEM
Erwin C. Horton, Hamburg, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application November 24, 1939, Serial No. 305,796
2 Claims. (Cl. 137—68)



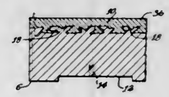
1. In a water supply system for vehicular trailers, an automotive vehicle having an internal combustion engine with an intake manifold, a trailer and a water storage tank associated therewith, and a pair of conduits connectible with the upper portion of said storage tank, one of said conduits communicating with the subatmospheric pressure obtaining in said intake manifold and the other of said conduits being adapted to be employed in drawing water into said storage tank, the one of said conduits having a pair of valves therein, one of said valves comprising a manually operable control valve for preventing retrograde flow of fluid through said conduit from said intake manifold to said storage tank, and liquid level responsive means in said tank and associated with the other of said valves whereby said other valve is automatically closed when the level of the water in the storage tank reaches a predetermined point.

2,285,582
ADJUSTABLE CUSHION SEAT TEMPLATE
Alonzo D. Human, San Bernardino, Calif.
Application August 26, 1940, Serial No. 355,466
5 Claims. (Cl. 33—176)



1. In a cushion template having a central body portion and having a band upon each of the sides thereof and in hinged end relation so that the body portion is enclosed within the said bands, each of said bands including two members in relatively fixed relation to and adjacent the side of the body, a bolt to clamp the members of the band together, there being one bolt to each of the respective bands, and other band members, said last mentioned band members being positioned between the first stated members and being formed with a longitudinally disposed slot to receive said bolt whereby the last mentioned band members may be moved laterally of the bolt for template purposes, and means to support said bands with respect to said body portion, said means comprising brackets adapted to encompass the bands across their section and pins, said pins being laterally adjustable with respect to said body portion and being in pivotal relation to said brackets.

2,285,583
SURFACE PREPARATION OF BEARINGS FOR BABBITTING
Lawrence D. Jennings, Wilkinsburg, and Rea A. Taylor, Forest Hills, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 13, 1940, Serial No. 329,486
13 Claims. (Cl. 29—149.5)



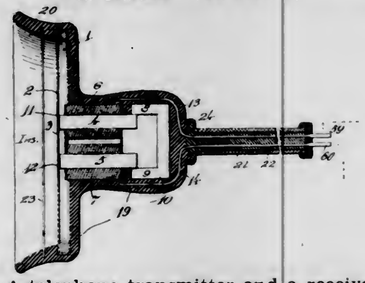
2. In the making of a Babbitt-holding member for a bearing, the steps which comprise rough-cutting, with a metal-tearing action, the face of said member to which the babbit is to be bonded, then cutting down the barbs formed by said rough-cutting step, which protrude a predetermined distance beyond said face, and removing barbs which are not sufficiently strongly attached to said member.

2,285,584
TWISTER CAP
Lavern J. Jordan, Fairview, Richard F. Bergmann, Lakewood, and Alden H. Burkholder, Cleveland, Ohio, assignors to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware
Application June 3, 1941, Serial No. 396,420
12 Claims. (Cl. 57—127)



1. A twister cap comprising a metal dome; a non-metallic skirt attached to said dome; and, attached to the lower end of said skirt, a beveled ring of wear-resistant material, the inner and outer surfaces of said ring being joined by an arc tangent to both of said surfaces.

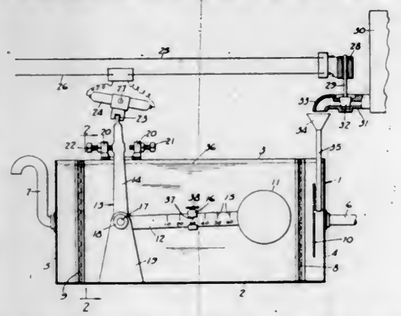
2,285,585
TRANSMITTER, RECEIVER, AND AMPLIFICATION SYSTEM
Heinrich Karl, Jersey City, N. J.
Application December 12, 1939, Serial No. 308,783
12 Claims. (Cl. 179—1)



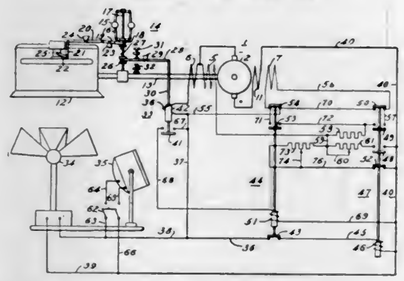
1. A telephone transmitter and a receiver, the latter associated with an electro-magnet, both, the transmitter and receiver, having a diaphragm of non-metallic material, the diaphragm consisting of a core held by stretching means in such position that it assumes the shape of a cone, and both cores of the diaphragms lacquered and at least the diaphragm of the receiver having iron filings embedded in the lacquer at the parts of the diaphragm only that are distant from stretching means and facing the poles of said electro-magnet.

2,285,586
LIQUID DENSITY RESPONSIVE APPARATUS
Charles E. Kerr, Hoopeston, Ill., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application March 22, 1939, Serial No. 263,464
9 Claims. (Cl. 265—44)

1. In a liquid density responsive apparatus: a tank for containing liquid; a lever structure positioned in said tank and comprising a normally substantially horizontal arm disposed beneath the liquid level and a normally substantially vertical arm projecting above the liquid level; a specific gravity responsive element carried by said horizontal arm in position for total submersion within the liquid; and means pivotally mounting said lever structure to cause the specific gravity responsive element to impart lateral rocking movement to said vertical arm as the specific gravity responsive element rises and falls in response to changes in the density of the liquid, said vertical arm being so proportioned and positioned with respect to said horizontal arm that its submerged and unsubmerged areas remain substantially constant during such rocking movement.

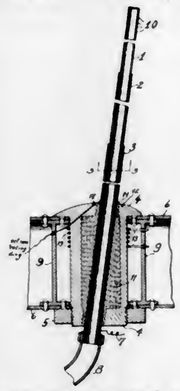


2,285,587
CONTROL SYSTEM
Albert W. Kimball, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 26, 1940, Serial No. 347,662
18 Claims. (Cl. 290—40)



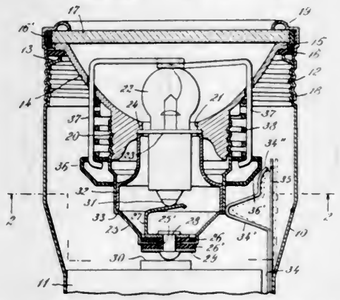
5. In a control system for a dynamo-electric machine, comprising, in combination, an electric generator connected to a load, driving means for said generator, a governor for governing the speed of the driving means and the generator, said generator comprising a frame, an armature, pole pieces on said frame, main field windings on said pole pieces, auxiliary field windings on said pole pieces cooperating with the main field windings for selectively controlling the magnetic saturation of the poles, means including a governing relay for automatically adjusting the governor to change the speed of the generator upon a change in load and means responsive to the operation of said governing relay for connecting the auxiliary field windings either cumulatively or differentially depending on load current values.

2,285,588
RADIO ANTENNA
Clyde J. Kirkes, Washington, D. C.
Application July 10, 1941, Serial No. 401,819
8 Claims. (Cl. 250—33)



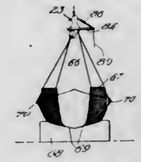
1. A radio antenna adapted to be carried by a moving vehicle, comprising: a tubular antenna element adapted to be mounted on the surface of the vehicle and projected therefrom so that the free end of said tubular element extends substantially away from surfaces of said vehicle, insulation supporting means for rigidly clamping a portion of said tubular antenna element to surfaces of said vehicle, the bottom portion of said tubular antenna element passing through said insulation supporting means, and reinforcing means for said tubular antenna element, said reinforcing means consisting of additional tubular members closely fitted into the bottom portion of said tubular antenna element and extending well up into said antenna element.

2,285,589
HAND LAMP
Walter R. Kopp and Edward B. Blue, New Haven, Conn., assignors, by mesne assignments, to Western Cartridge Company, a corporation of Delaware
Application August 9, 1938, Serial No. 223,782
11 Claims. (Cl. 240—11.3)



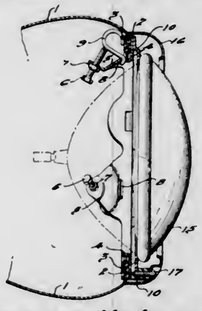
11. In a portable lamp, a reflector having a hollow extension on the back thereof, a lamp bulb mounted in the extension and having a filament, a circuit for energizing the filament, means for securing the bulb against axial movement in the extension, and spring-pressed means independent of said last means for engaging the bulb and crushing the filament in response to breaking of the bulb.

2,285,590
BOAT LAUNCHING DEVICE
John L. Larson, Chicago, Ill.
Application February 2, 1940, Serial No. 317,003
1 Claim. (Cl. 9—23)



In an apparatus of the character described, life-boat cradling support means comprising, flexible wire mesh means, cable means secured to each of two opposite ends of said flexible wire mesh means, the said cable means having secured thereto hook attaching means adapted to attach one cable means permanently to a hook and attach the other cable means releasably to the said hook, the said flexible wire mesh means provided with ball bearing means secured in close proximity to the ends to which the said cable means is attached.

2,285,591
HEADLIGHT ADAPTER
Alvin E. Larsen, Racine, Wis., assignor to Rex Accessories Company, Racine, Wis., a corporation of Wisconsin
Application June 19, 1940, Serial No. 341,341
3 Claims. (Cl. 240—41.5)

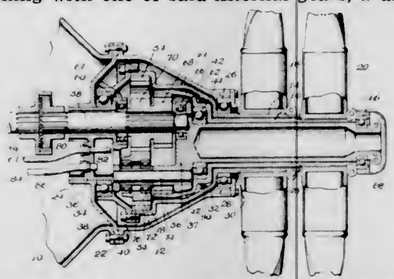


1. A mounting assembly for mounting a hermetically sealed headlight bulb, lens and reflector assembly which comprises, an annular mounting ring, a plurality of radially retractable clamps on said ring for fixedly anchoring said mounting ring in a headlamp housing, a second ring, adjusting screws serving to adjustably mount said second ring on said first ring, and clamping means for fixedly mounting said headlamp assembly with respect to said second ring.

2,285,592
PROPELLER DRIVE
Joseph Ledwinka, Philadelphia, Pa., assignor to Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 29, 1938, Serial No. 242,935
6 Claims. (Cl. 74—389)

1. In a dual propeller drive, a gear housing, a support member extending from the back of said housing and projecting out of the front thereof, a propeller drive sleeve journalled on said support member, a second propeller drive sleeve concentric with and surrounding a portion of said first named sleeve and journalled in said hous-

ing, internal gears on each of said sleeves, one being nested within the other, an idler pinion meshing with one of said internal gears, a drive



shaft extending through the back of said housing having a pinion meshing with the other internal gear and a pinion meshing with said idler pinion.

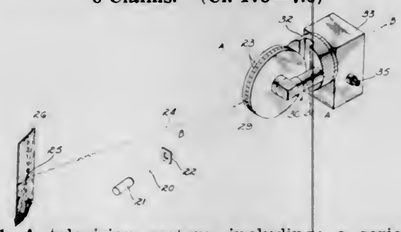
2,285,593

SCANNING METHOD AND DEVICE

Ralph D. Lemert, Los Angeles, Calif.

Application July 24, 1937, Serial No. 155,542

8 Claims. (Cl. 178—7.6)



1. A television system, including: a series of mirrors arranged in substantially a circle; means to rotate said series of mirrors about the axis of said circle; means to rotate the series of mirrors simultaneously about a secondary axis intersecting said series of mirrors; and means to direct light against the rotating series of mirrors in the vicinity of the intersection thereof with said secondary axis, thereby producing reflected beams successively sweeping a field at progressively inclined angles, said mirrors being in planes disposed at various angles relative to the direction of said first axis, whereby the series of sweeping beams produced by one rotation about the first axis will traverse the field from side to side, the direction of traverse changing with each successive series to produce intersection of the paths of sweep.

2,285,594

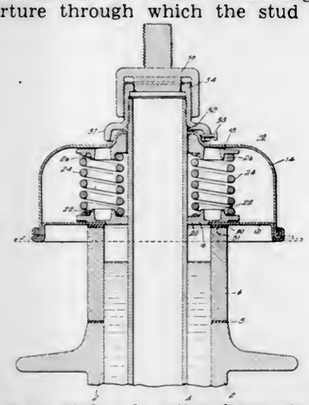
BUSHING CAP

Harry J. Lingal, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 30, 1939, Serial No. 282,155

2 Claims. (Cl. 174—12)

1. In a bushing for high-tension electrical service including a shell of dielectric material having a conducting stud extending therethrough, a terminal cap for said bushing comprising a rigid base plate loosely surrounding said conductor and overlying the end of said shell, a circular bottom cap wall of flexible sheet material having a central aperture of less diameter than that of said base plate having the portion adjacent to its inner periphery disposed between the end of the shell and the base plate and its outer peripheral portion disposed remote from said base plate, a rigid top plate having a central aperture loosely surrounding said stud and means for supporting it above said base including means for biasing the base plate against the inner peripheral portion of the bottom cap wall, a top and side wall cap member of flexible sheet material having a central aperture through which the stud extends



and an outer peripheral portion disposed adjacent to the outer peripheral portion of said bottom cap wall, means on said stud coacting with said supporting means for the top plate for clamping said top and side wall cap member adjacent to its inner periphery against said top plate, and means for joining said outer peripheral portions in fluid-tight relation.

2,285,595

TEMPERING GLASS

Jesse T. Littleton, Howard R. Lillie, and William W. Shaver, Corning, N. Y., assignors to Corning Glass Works, Corning, N. Y., a corporation of New York

Application September 12, 1939, Serial No. 294,540

8 Claims. (Cl. 49—89)



1. The method of tempering a glass article to produce a modified distribution of permanent stress therein which comprises heating the entire article to a temperature approaching the softening temperature of the glass from which the article is made, severely chilling the article to set the surface layers only in rigid condition by means of a chilling medium having a temperature substantially below the strain temperature of the glass and immediately immersing the article in a quenching bath maintained at a temperature higher than the temperature of the initial chilling medium but below the strain temperature of the glass until the entire article assumes this temperature and subsequently cooling the article to room temperature.

2,285,596

TEMPERING GLASS

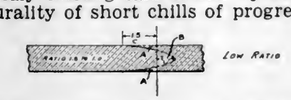
Jesse T. Littleton, Howard R. Lillie, and William W. Shaver, Corning, N. Y., assignors to Corning Glass Works, Corning, N. Y., a corporation of New York

Application September 12, 1939, Serial No. 294,541

7 Claims. (Cl. 49—89)

2. The method of tempering a glass article to produce a modified distribution of permanent stress therein which comprises heating the article to a temperature approaching the softening

temperature of the glass from which it is made and rapidly chilling said article by subjecting it to a plurality of short chills of progressively in-



creasing severity while chilling the article to a temperature below which permanent stresses can not be set therein.

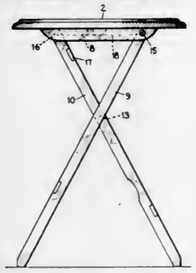
2,285,597

FOLDING TABLE

Edwin R. Lutz, Knoxville, Tenn., and Edward M. Allen and Thomas W. Darrah, New York, N. Y.

Application October 16, 1940, Serial No. 361,368

2 Claims. (Cl. 311—83)



1. A foldable furniture piece comprising a supporting member such as a top piece serving as a table or the like; parallel cleats secured to the underneath side of the top piece, two of which are grooved from end to end, and said grooves being closed at their ends and also formed partway only into the cleats; two X-type legs having their upper ends pivotally attached to the ends of two cleats, and two X-type legs carrying guiding pins at their upper ends and slidably retained in the grooves; a stretcher bar extending across from one leg to the other leg proximate the guiding pins to brace said legs in fixed position with each other in order that the guiding pins slide freely in their grooves, and a recess formed partway into each of the two grooved cleats proximate the ends thereof which carry the pivoted legs, said stretcher bar foldable down into the recess flush with the cleats simultaneously with the legs which also fold between and flush with said cleats.

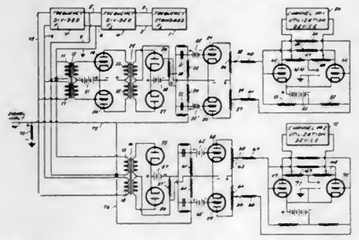
2,285,598

MULTIPLEX TELEGRAPH DISTRIBUTOR

Richard E. Mathes, Westfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application June 15, 1940, Serial No. 340,657

18 Claims. (Cl. 178—51)



1. The method of producing control voltages for commutation of signals in multiplex telegraphy, which consists in deriving voltage waves from a fundamental wave and one of its harmonics, displacing one derived wave 90° from the other and full-wave rectifying the displaced and undisplaced derived waves.

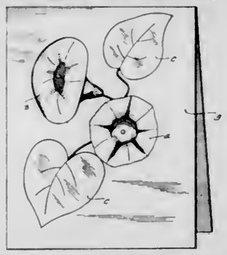
2,285,599

DECORATION

Margaret F. Mauro, Washington, D. C.

Application October 18, 1937, Serial No. 169,708

2 Claims. (Cl. 41—26)



2. Process of forming a colored representation of plant life by applying to a suitable surface a living plant element and moving it in contact with said surface under pressure sufficient to express the liquid pigment therefrom and in such wise as to form an image of the plant element from which the said pigment is expressed.

2,285,600

CURTAIN ROD PACKAGE

Stanley E. Maves, Freeport, Ill., assignor to Western Newell Mfg. Co., Freeport, Ill., a corporation of Illinois

Application March 28, 1940, Serial No. 326,329

2 Claims. (Cl. 206—47)



1. The combination in a curtain rod package of a curtain rod having a central chamber and a longitudinal slot communicating therewith, a label comprising a sheet of flexible material, one side thereof bearing inscriptions and the opposite side being at least in part covered with adhesive, said sheet having one edge portion of relatively small area bent back upon itself and sealed to the main body of the sheet at the free edges of said edge portion to form an envelope, and rod fastening means confined in said envelope, said envelope being seated in said central chamber and said label extending through said slot and around said rod, the edge thereof opposite said envelope being sealed to an intermediate portion of said label to confine the envelope within the chamber and to span said slot.

2,285,601

OXIDATION OF ALICYCLIC HYDROCARBONS

Sumner H. McAllister, Lafayette, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

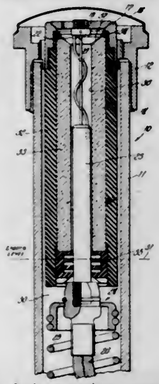
No Drawing. Application February 29, 1940, Serial No. 321,477

20 Claims. (Cl. 260—533)

1. A process for the production of glutaric acid

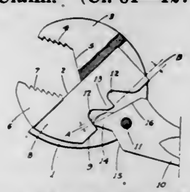
which comprises continuously introducing cyclopentene into a nitric acid-containing solution maintained at a temperature of about 110° C., maintaining the concentration of said nitric acid in said solution between about 14% and 20% by continuously adding fortifying nitric acid, continuously removing the crude reaction mixture and recovering glutaric acid therefrom.

2,285,602
CIRCUIT INTERRUPTER
George F. McMahon, Chicago, Ill., assignor to Schweitzer & Conrad, Inc., Chicago, Ill., a corporation of Delaware
Application November 7, 1938, Serial No. 239,263
37 Claims. (Cl. 200—120)



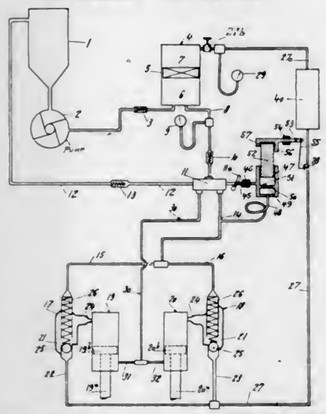
1. A circuit interrupter comprising, in combination, a pair of arcing terminals relatively movable apart along a predetermined path, a liquid arc extinguishing material along one part of said path adapted to evolve an arc extinguishing medium due to the heat of an arc when the current flow therethrough is relatively small, the insulating properties of said liquid arc extinguishing material being substantially reduced on contamination with water, and a solid anhydrous arc extinguishing material along another part of said path and adapted to evolve an arc extinguishing medium due to the heat of the arc only when the current flow therethrough is relatively great, the insulating properties of said liquid arc extinguishing material being substantially unimpaired by the presence of said solid arc extinguishing material and the arc extinguishing medium evolved therefrom.

2,285,603
ADJUSTABLE WRENCH
Lawrence C. Mead, Whittier, Calif.
Application June 21, 1940, Serial No. 341,654
1 Claim. (Cl. 81—127)



A wrench comprising a body, a fixed jaw thereon, a movable jaw slidably mounted on the body for movement in a straight line toward and from the fixed jaw, a handle pivoted on the body for rotation through an arc of predetermined length, a shank depending from the movable jaw and having spaced notches cut up in its lower edge in a plane parallel to the line of movement of the movable jaw, a cam tooth on the handle engaging one notch at a time to slide the movable jaw with rotation of the handle; the lower edge of the shank between the notches being relieved; the handle on one side of the tooth having a stop edge of a length to bridge a notch and abut against the lower edge of the shank beyond said notch to limit the movement of the handle in a jaw opening direction; the right angle projection of the tooth above the line of the stop edge being less than the height of the relief between the notches from the lower edge of the shank and a stop edge formed on the handle on the opposite side of the tooth to bridge a notch and abut against the lower edge of the shank beyond said notch to limit the movement of the handle in a jaw opening direction; the right angle projection of the tooth above the last named stop edge being greater than said height of the relief.

2,285,604
PLANT AND DEVICE FOR FLUID CONTROL
Jean Mercier, Neuilly-sur-Seine, France
Application February 28, 1940, Serial No. 321,286
In Belgium April 5, 1937
5 Claims. (Cl. 60—51)

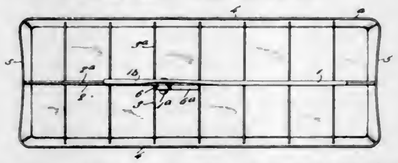


2. A system of the type described which comprises, in combination, a fluid pressure responsive double acting device, a source of fluid pressure for supplying operating fluid to said device, a main supply line leading to one side of said device for operation thereof in one direction, another main supply line leading to the other side of said device for operation thereof in the other direction, a discharge line, distributor means for alternately connecting one of said main lines with said source and the other with said discharge line, an auxiliary line leading to the same side of said device as said first mentioned line, an auxiliary source of fluid under pressure, means, including a cock, for connecting said second mentioned source of pressure with said auxiliary line, means operative by said distributor means for opening said cock when said distributor means are in the position connecting said first mentioned line with said first mentioned source and normally closing said cock when said distributor means are in the other position, said cock operating means being further responsive to pressure variations in said first mentioned line so as to leave said cock

in the opened position thereof when said distributor means is brought back into the second mentioned position thereof after a given drop of pressure has occurred in said first mentioned line in communication with said first mentioned source of pressure, and valve means interposed between said first mentioned main supply line and said auxiliary line so as alternately to connect one with said device and to disconnect the other therefrom, these valve means being differentially operative by the respective fluid pressures in these two last mentioned lines respectively for connecting said auxiliary line with said device as soon as a breakdown causes a given lack of pressure in the first mentioned main supply line in communication with said first mentioned source of pressure.

4. A system of the type described comprising at least one fluid actuated device, a storage device containing a fluid under pressure, a movable fluid tight partition inside said device separating it into two chambers one of which contains a liquid and the other a gas, a main circuit connecting one of said chambers with said fluid actuated device, valve means inserted in said main circuit, at least one auxiliary independent circuit acting as a duplicate of the first one, connected with said other chamber including means for supplying liquid to said auxiliary circuit and abutting into said valve means where it is connected with said main circuit, said valve means having an outlet directly connected with said fluid actuated device and comprising a valve member subjected to the opposing action of the pressures prevailing in said two circuits and adapted to close the circuit having the lowest pressure, elastic reaction means adapted to act upon said valve member so as to close the auxiliary circuit when the plant operates in normal condition.

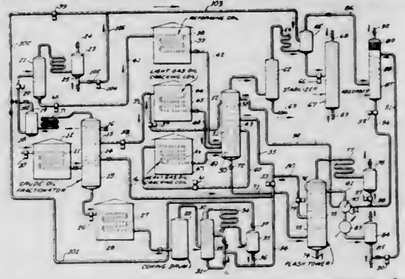
2,285,605
ICE TRAY
James H. Miner, Meridian, Miss.
Application October 27, 1939, Serial No. 301,662
8 Claims. (Cl. 62—108.5)



1. In combination an ice tray, a grid therein in two sections, free to move apart laterally and free to have relative movement lengthwise, each section being composed of a bar or partition extending lengthwise of the tray and adjacent the corresponding bar of the other section, laterally extending fins on said bars and means permanently pivoted on a part of the organization and having movement relative thereto, said means entering between, contacting with and pressing the grid sections laterally apart when operated, said permanently mounted means having a handle permanently attached thereto and accessible for manual operation, substantially as described.

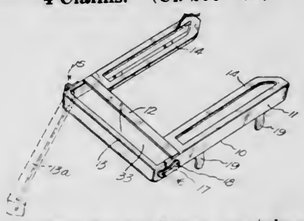
2,285,606
TREATMENT OF HYDROCARBON OILS
Charles W. Nofsinger and Joseph W. Jewell, Summit, N. J., assignors to Gasoline Products Company, Inc., Jersey City, N. J., a corporation of Delaware
Application September 12, 1939, Serial No. 294,436
3 Claims. (Cl. 196—49)

2. In the cracking of hydrocarbon oils the process that comprises fractionating cracked vapors and gases formed as hereinafter specified to obtain fractions comprising a normally gaseous fraction, a gasoline fraction, and a gas oil fraction, recycling said gas oil fraction to a cracking zone wherein the oil is subjected to cracking conditions of temperature and pressure to effect conversion, directing the resultant cracked products from said cracking zone to a separating zone maintained under superatmospheric pressure wherein separation of vapors from liquid residue takes place, passing the separated vapors to the aforesaid fractionating zone, fractionally distilling crude petroleum in a separate distillation zone to separate gas oil constituents from residue, directing such gas oil constituents to said cracking zone, passing residue from the crude distillation zone to a coking zone wherein it is converted to form a coke resi-



due, separately fractionating the vapors from the coking zone to form a condensate, flash distilling the residue from the aforesaid separating zone under reduced pressure and fractionating the flashed vapors to form a light fraction, an intermediate condensate and a heavier condensate, directing said heavier flashed condensate and said condensate obtained in fractionating the vapors from the coking operation to said fractionating zone, directing the aforesaid gaseous fraction to an absorber zone and introducing the aforesaid flashed intermediate condensate to the absorber zone as an absorbing menstruum therein, passing said absorbing menstruum containing absorbed constituents from the absorber zone to the aforesaid fractionating zone and rectifying said gasoline distillate to produce a product of desired boiling point and vapor pressure.

2,285,607
MATCH HOLDER
Edward R. Norbut, Newark, N. J.
Application September 13, 1940, Serial No. 356,602
4 Claims. (Cl. 206—30)



1. In a holder for book-type matches, wherein the latter is provided with the customary striker strip at the front side of the base portion; comprising a pair of spaced side members, match book retention flanges extending inwardly from the upper edges of said side members, a cross bar

interconnecting the upper edges of the side members adjacent their lower ends, and with which cross bar the striker strip of the match book overlies when the match book is positioned in the holder, and means extending parallel to and spaced from the cross bar and connecting the lower ends of the side members for engagement with the lower edge portion of the match book for locking the latter in the holder against outward sliding movement in a downward direction and for keeping the striker strip in interlocking exposed relation with said cross bar.

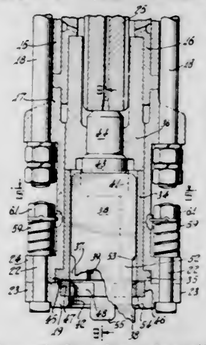
2,285,608

HOLDER FOR IMPACT TOOLS

Matthew O'Farrell, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey

Application June 29, 1940, Serial No. 343,077

5 Claims. (Cl. 279—19.3)



1. In a device of the class described, the combination of a front head, a closure plate secured to the outer end of said front head, a working implement movable within said front head and extensible through said closure plate, means supported by said closure plate and movable relatively thereto for controlling movement of said working implement within said front head, and a projection on said means cooperative with said closure place to restrict said means to an oscillating movement between positive limits defined by said closure plate.

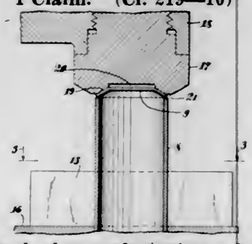
2,285,609

METHOD OF MAKING BOMB BURSTER TUBES

Thomas W. Pedersen, Montclair, N. J., assignor to The Oiljak Manufacturing Company, Inc., Montclair, N. J., a corporation of New Jersey

Application September 26, 1941, Serial No. 412,391

1 Claim. (Cl. 219—10)



The method of manufacturing a bomb bursting tube or the like, from thin walled open-ended tubing, comprising forming a flat sheet metal closure disc of greater diameter than the outside diameter of said tubing, dishing said disc by bending the rim portion of the disc at an incline to the original plane of the disc sufficiently to reduce the outside diameter of the disc to substantially the outside diameter of the tubing and thereby projecting the corner edge which is at the inside of the dished disc to an extent where it will meet the end of the tubing, substantially midway of the wall thickness of the tubing, locating the dished disc over the end of the tubing with the projected corner edge engaged with the mid-portion of the wall of the tubing and resistance welding said angled and projected corner edge of said disc to said mid-portion of the tubing wall under pressure but without flattening down the dished disc and so as thus to retain the diameter of the disc reduced to that of the tubing, in the completed welded structure.

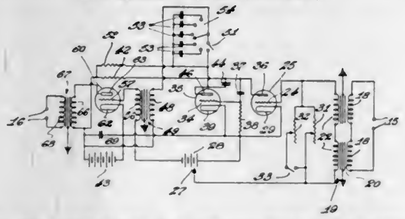
2,285,610

METHOD OF AND APPARATUS FOR SEISMIC SURVEYING

Olive S. Petty, San Antonio, Tex.

Application August 1, 1940, Serial No. 349,315

4 Claims. (Cl. 177—352)



2. In apparatus for use in seismic surveying, the combination with means for converting seismic impulses into electrical wave-form energy, of means including a plurality of thermionic valve circuits for amplifying said wave-form energy, an interstage transformer between adjacent circuits, and means for selectively establishing a direct or a capacitive coupling between the transformer and the preceding one of said adjacent circuits.

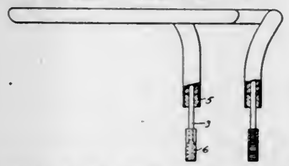
2,285,611

ELECTRIC HEATING DEVICE

George E. Price, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application December 29, 1939, Serial No. 311,618

9 Claims. (Cl. 201—66)



1. In combination with an electrical heater element, a tubular sheath spaced away therefrom and a powdered refractory insulator occupying the space between said element and said sheath, an end terminal for said heater and sheath comprising a wall portion consisting of a fused mixture of glass and zircon forming fused joints with said sheath and the terminal for said heater, said zircon having a fineness and being contained in said mixture in a quantity such as to permit substantial out-flow of gases emitted from said insulator when said insulator is heated and to prevent substantial inflow of gases to said insulator when said insulator is cooled.

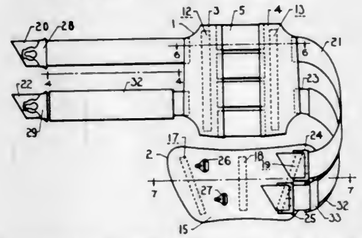
2,285,612

SACROILIAC AND ABDOMINAL SUPPORTER

Louis M. Rehthaler, Battle Creek, Mich.; Harold E. Steinbacher, executor of said Louis M Rehthaler, deceased

Application December 2, 1939, Serial No. 307,201

5 Claims. (Cl. 128—96)



1. A supporter having front and back panels, straps joining said panels, two of said straps being groin straps, a non-roll member on each groin strap in position to contact the groin of the user under normal conditions of use, said non-roll members comprising front and back face members and at least one intermediate cushioning member, all of said members being fastened together at the edges thereof, narrow stiffening stays crosswise of each of said non-roll members at spaced intervals, and loops on the back face of each of said non-roll members adapted to receive one of said groin straps in flat position.

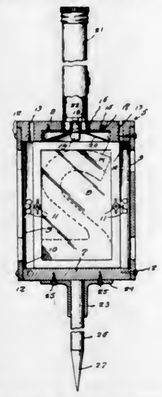
2,285,613

FOOTBALL DOWN INDICATOR

Ralph E. Rice, Stewartville, Minn.

Application June 7, 1941, Serial No. 397,118

2 Claims. (Cl. 40—133)



1. In a football down indicator, a substantially rectangularly shaped box including side, top and bottom walls and said side walls being stenciled to form numbers designating the downs in a football game, an impaling pin secured to the bottom wall of the box, said top wall having a recess and an opening communicating with said recess, a base plate secured in the recess and including a screw threaded ferrule located in the opening, an electric lamp socket carried by the base plate, a reflector carried by the base plate, an electric lamp carried by said socket, and a handle for the support of the box threaded in the ferrule and including means for the illumination of the electric lamp.

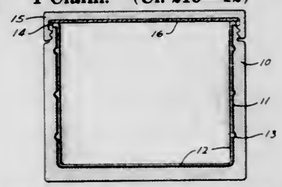
2,285,614

COMPOSITE STRUCTURE

James L. Rodgers, Jr., New York, N. Y., and Charles E. Slaughter, New Canaan, Conn., assignors to Plaskon Company, Incorporated, Toledo, Ohio, a corporation of Delaware

Application July 28, 1938, Serial No. 221,758

1 Claim. (Cl. 215—12)



A composite container comprising an outer body of formaldehyde-urea resin having an undercut recess in its inner wall, a liner of metal foil, and an inner shell of a water-resistant thermoplastic resin formed into place, the material of said inner shell extending into such undercut recess in the wall of said outer body.

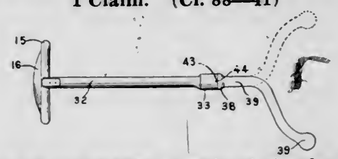
2,285,615

INVERTIBLE SPECTACLE FRAME

Joseph Ruchser, New York, N. Y.

Application November 26, 1940, Serial No. 367,260

1 Claim. (Cl. 88—41)



In spectacles having a pair of circular frames each carrying main lens and bifocal lens set therein, said frames being spring connected centrally of their axes by means of a bridge, opposed convex nose rests associated with said bridge, short straight bow elements hinged to said frames directly opposite said bridge connections, said bow elements having cylindrical enlargements at their free outer ends containing bored recesses and notches in their outer end edges, inverted reenforcing cups fixed in the recesses, hook-like extensions for said bow elements having enlarged hubs, studs fixed in said hubs to move through openings in the closed outer ends of said cups, heads on said studs movable in said cups, compression springs encircling said studs within the cups to press said heads inwardly, and projections on said hubs engageable selectively in the notches of said bow recesses.

2,285,616

ADJUSTABLE SUPPORT

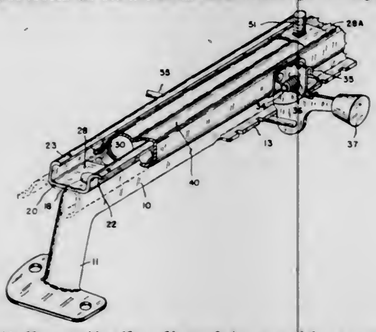
Walter S. Saunders and Ray R. Peterson, Pontiac, Mich., assignors to American Forging & Socket Company, Pontiac, Mich., a corporation of Michigan

Application May 23, 1940, Serial No. 336,771

4 Claims. (Cl. 155—14)

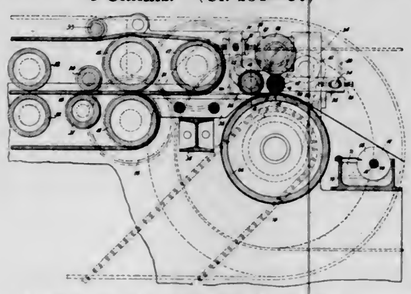
1. In a slidable support for a seat or the like, a track having a pair of spaced upwardly projecting sides and a channel portion therebetween,

a laterally extending race-forming flange projecting from each of said sides, said flanges extending in the same direction, whereby one overhangs said channel portion and the other projects laterally therefrom, a carriage shaped similarly to the track and inverted and turned one hundred eighty degrees with relation thereto, each race-forming flange of the carriage underhanging the other of the two corresponding race-forming flanges of the track, and the channel portions of said track and carriage being sub-



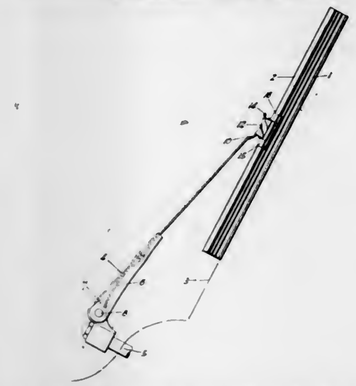
stantially vertically aligned to provide a central raceway, anti-friction members in said central raceway, and anti-friction members between each of said first mentioned race-forming flanges and the cooperating underhanging flange, said last mentioned anti-friction members being somewhat larger than the relaxed distance between said flanges, whereby to impose predetermined stress upon said flanges and to urge said track and carriage together and clamp the first-mentioned anti-friction members therebetween.

2,285,617
MACHINE FOR WAXING AND PLAITING PAPER
Fred Schwartz, Green Bay, Wis., assignor to Fort Howard Paper Company, Green Bay, Wis., a corporation of Wisconsin
Application July 26, 1938, Serial No. 221,419
8 Claims. (Cl. 154—30)



2. Apparatus of the class described, comprising, in combination: upper and lower sets of helical bands; the bands of each set converging in the direction of travel of a paper sheet therebetween and the bands of the sets approaching a common plane in the same direction; a set of plaiting blocks receiving the sheet from said bands; lower grooved rollers about which the lower set of bands travel; the forward of said rolls located adjacent the receiving ends of said blocks and the respective blocks substantially in alignment with the bands of the lower set; upper grooved rolls about which the upper set of bands travel; the forward of the last named rolls placed midway of and above said blocks with the bands thereon interpolated with said blocks, to assist travel of the sheet along said blocks; a roll adjacent the forward end of said blocks having ribs in substantial alignment with the respective bands of the upper set; and means to drive said rolls.

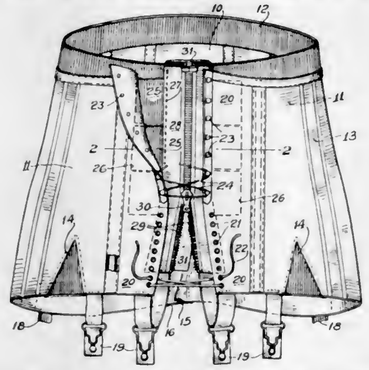
2,285,618
WINDSHIELD WIPER MOUNTING
Anthony C. Scinta, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application March 13, 1939, Serial No. 261,477
11 Claims. (Cl. 15—250)



1. In a windshield cleaner, a wiping blade having a relatively fixed transverse bearing across its back, an actuating arm having a transverse part with an under face on which the transverse bearing directly and rockably engages and by which the blade is urged into wiping contact with the windshield, said blade bearing and said under face of the arm part having laterally spaced portions fully interengaging when the blade is normal to the windshield and alternately engaging in a rocking manner at the beginning of each stroke for permitting the blade to assume a dragging position when wiping, and means resiliently acting between parts on the arm and blade for urging said portions of the blade bearing into full engagement with said portions of the under face of the arm part, said resilient means yielding while permitting rocking of the blade on such under face to the dragging position for wiping, the resilient means being so arranged as to remain unaffected by any variation in the arm pressure on the blade.

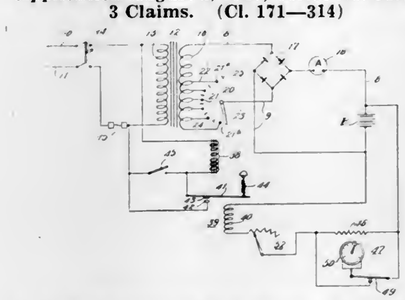
2,285,619
CORSET
Elizabeth M. Scott, Los Angeles, Calif.
Application May 8, 1940, Serial No. 333,990
2 Claims. (Cl. 2—43)

1. A corset comprising a rear panel, a pair of front panels connected to the side edges of said rear panel a continuous narrow belt-like member secured to the upper edges of said rear and front panels, an elastic lace connecting the lower portions of the free edges of said front panels, hooks on the upper portions of said front panels adjacent their free edges, a lace adapted to engage said hooks, a series of elastic members underlying the upper portions of the free edges of said front panels the outer vertical edges of which elastic members are secured to the overlying portions of the front panels, vertically disposed strips of flexible material connected to the free edges of said elastic members the upper ends of said vertically disposed strips of flexible material being secured to the front ends of said belt-like member at the upper ends of the front panels, said flexible strips extending downwardly



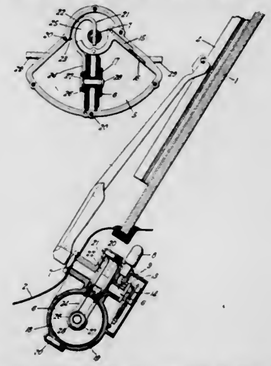
from the lowermost elastic members to points adjacent the lower edges of the front panels, said elastic members and flexible strips constituting flaps that underlie those portions of the front panels adjacent their free edges and slide operated fastening means for connecting the free edges of said flexible strips throughout their lengths.

2,285,620
BATTERY CHARGING APPARATUS
Richard E. Sears, Cleveland, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Application August 2, 1940, Serial No. 349,937
3 Claims. (Cl. 171—314)



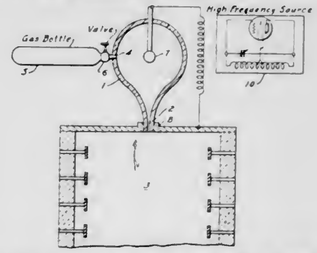
1. In a battery charging system, a transformer having a plurality of taps, a rectifier, a charging circuit adapted for connection with a battery to be charged and including said rectifier and a switch member cooperating with said taps, means biasing said switch member in a given direction, a toothed member and cooperating escapement lever for limiting actuation of said switch member by said biasing means, a relay having circuit connections for connecting the same across the terminals of the battery being charged and also having contacts adapted to be closed in response to a predetermined increase in the terminal voltage of the battery, a solenoid controlled by the contacts of the relay and arranged to actuate said escapement lever, and means for delaying the operation of the relay during the start of the charging operation comprising a resistance in the relay circuit, a switch arranged to short-circuit said resistance and a timing device adapted to close said switch upon the lapse of a predetermined time interval.

2,285,621
WINDSHIELD CLEANER MOTOR
Edward W. Sibley, Kenmore, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application February 25, 1939, Serial No. 258,523
3 Claims. (Cl. 121—97)



1. A windshield cleaner motor having complementary and abutting housing sections providing a plurality of chambers, and having a fluid passage formed in the abutting sections of the housing sections for intercommunication between the chambers, a wiper shaft operably mounted in one of said chambers, a piston reciprocable in the other chamber, an arm operable through said passage and yieldably connecting said shaft to said piston for oscillating the shaft, said arm intermediate its connection to the shaft and the piston being yieldable in the direction of the fluid force applied to the piston, and valve means for directing the flow of fluid pressure first to the shaft chamber and then to the piston chamber for operating the piston.

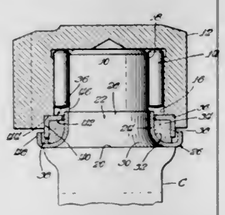
2,285,622
ION SOURCE
Joseph Slepian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 14, 1940, Serial No. 340,556
8 Claims. (Cl. 250—84)



1. An ion generator for supplying high energy ions to a low pressure ion consuming device comprising a vitreous chamber, a source of heavy hydrogen connected to said chamber, a capillary tube outlet of dielectric material connecting said chamber to the consuming device, an electrode in said chamber, an electrode adjacent said outlet

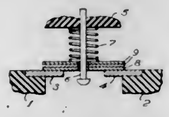
and a source of high frequency power connected to said electrodes for producing a high frequency discharge through said outlet.

2,285,623
UNIVERSAL JOINT
Carl E. Swenson and Edmund B. Anderson, Rockford, Ill., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application August 3, 1940, Serial No. 350,727
8 Claims. (Cl. 64—17)



1. In a universal joint embodying a trunnion and a bearing cup in which the trunnion is journalled through the medium of anti-friction rollers; a packing retainer ring mounted in the bearing cup, a ring of packing material mounted in said retainer ring, and a collar on the trunnion cooperating with said retainer ring to form a centrifugal seal, said collar having an inner flange mounted upon the base of the trunnion, the edge of said inner flange projecting axially beyond said ring of packing material in the direction of the rollers and forming a shoulder for retaining said rollers in operative position.

2,285,624
ELIMINATION OF CONTACT BURNING ON CONTROLS
Elo C. Tanner, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 4, 1939, Serial No. 302,894
2 Claims. (Cl. 200—166)



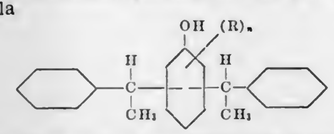
1. An electrical switch including a pair of coacting contact members, one of said contact members comprising a centrally supported member with freely movable extremities which member serves as the current bridging member having superposed thereon a second metallic piece having a different coefficient of expansion than the first thereby forming therewith a bimetallic element, the other of said contact members consisting of two flat separate metallic pieces located in the same plane and which are parallel to the first mentioned bimetallic contact member, and helical spring means for centrally supporting said centrally supported contact member and acting to normally bias said contact members into engagement when they are in the closed position, said bimetallic member being adapted to increase said contact pressure due to the deformation thereof in response to increase in temperature such as due to arcing, the compressive force of said spring progressively increasing as the result of said deformation.

2,285,625
α-PHENYLETHYL SUBSTITUTED ALKOXY-PHENOL
Fred Lowell Taylor and John E. Livak, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application April 27, 1940, Serial No. 331,944
9 Claims. (Cl. 260—613)

9. The method of preparing phenylethyl substituted alkoxy phenols selected from the group consisting of α-phenylethyl, α-(chlorophenyl)-ethyl, and α-(bromophenyl)-ethyl substituted alkoxy-phenols which comprises heating an alkoxy-phenol to a reaction temperature with an agent selected from the class consisting of α-phenylethyl, α-(chlorophenyl)-ethyl, and α-(bromophenyl)-ethyl halides.

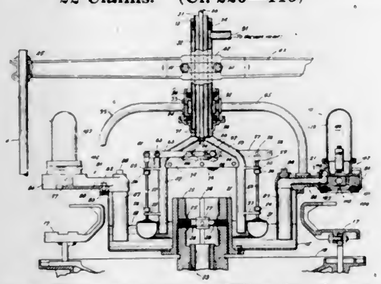
2,285,626
SUBSTITUTED PHENOL
Fred Lowell Taylor and John E. Livak, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application April 27, 1940, Serial No. 331,945
4 Claims. (Cl. 260—619)

1. A substituted phenol having the general formula



wherein R represents a substituent selected from the class consisting of alkyl and cycloalkyl groups, n represents an integer not greater than 2, and the α-phenylethyl substituents occupy two of the positions ortho and para to the hydroxyl group.

2,285,627
FILLING MACHINE
Albert R. Thompson, Los Gatos, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application April 22, 1939, Serial No. 269,362
22 Claims. (Cl. 226—116)

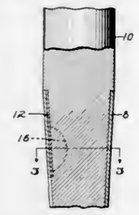


1. In a filling machine, a filling head, a vacuum chamber associated with said head, and means for connecting a can to be filled with a source of vacuum for drawing a partial vacuum on said can including means for closing the can from said vacuum drawing means and balancing the said vacuum between the said can and said chamber, for connecting said source of vacuum to the can to draw a partial vacuum on the can with the can closed from said chamber to maintain the vacuum therein, and for subsequently opening communication between said can and said chamber and to a syrup supply with the vacuum drawing means closed off, whereby a measured amount of syrup is drawn into the can by the combined vacuums in the can and said chamber.

2,285,628
METHOD OF PRODUCING A PURIFIED GUM ROSIN AND TURPENTINE FROM CRUDE OLEORESIN
William N. Traylor, Hattiesburg, Miss., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 7, 1938, Serial No. 200,679
4 Claims. (Cl. 260—109)

1. In a method of producing a high grade pine oleoresin from crude pine oleoresin, the improvement which comprises the steps of dissolving the pine oleoresin in at least an equal amount of a liquid consisting of a light petroleum hydrocarbon and separating the solution from the undissolved components.

2,285,629
SHOVEL
Winthrop C. Turner, Parkersburg, W. Va., assignor to Ames Baldwin Wyoming Co., Parkersburg, W. Va., a corporation of Delaware
Application March 25, 1940, Serial No. 325,777
7 Claims. (Cl. 306—21)



3. A shovel or like tool having a blade from which extends rearwardly a socket at least the distal portion of which forms a circumferentially continuous tube and is free of exterior projections or asperities, a non-metallic handle extending into the socket, means associated with the continuous distal portion of the socket and received entirely within the same providing a fin of slight width and considerable longitudinal extent entering the handle in the manner of a spline, and means engaging the terminal portion of the handle to secure the handle against axial withdrawal.

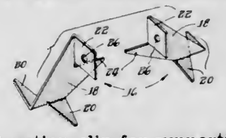
2,285,630
CRAYON PENCIL
Oscar Henry Tweeten, Chicago, Ill.
Application May 3, 1940, Serial No. 333,174
5 Claims. (Cl. 120—13)

1. A crayon pencil comprising a casing having an internal spiral groove, a tubular member adapted to hold a crayon having one end of smaller diameter and forming a seat for a rotatable collar, a head located on said end of said tubular member, means for rigidly securing said head member to said tubular member, said means



also serving as an anchoring member for a chain for attaching said pencil securely to a fixed object.

2,285,631
ACOUSTICAL TILE
Leon F. Urbain, Chicago, Ill.
Application July 27, 1939, Serial No. 286,883
8 Claims. (Cl. 72—118)

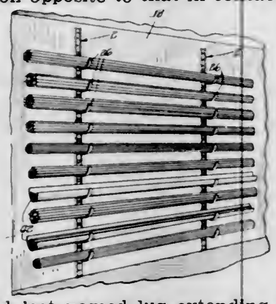


1. A construction clip for supporting surfacing tiles and the like comprising a web portion adapted to extend between abutting edges of adjacent surfacing units, prong means located adjacent one extremity of the web and disposed in a plane extending angularly to that of the web, and means adjacent the other extremity of the web for securing the web to a furring strip or the like and comprising an attachment flange extending in a plane disposed at an angle to the plane of the web and to the plane of said prong means for engaging the face of a furring strip, the plane of said flange being offset substantially outwardly beyond the center line of said prong means whereby the load imposed upon the prong means is adapted to set up a twisting torque about the region of the attachment flange, and abutment means extending outwardly beyond said flange at an angle thereto and operative to engage an angularly disposed face of the furring strip to resist said torque.

2,285,632
STORAGE RACK
Leon F. Urbain, Chicago, Ill.
Application July 27, 1939, Serial No. 286,884
12 Claims. (Cl. 211—60)

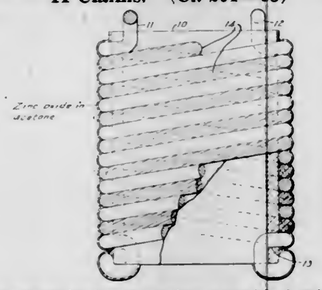
12. A wall rack construction including in combination a plurality of channel-shaped, upright portions having parallel, confronting flanges forming underlying locking shoulders and also having a plurality of longitudinally spaced-apart openings centrally located in the wall of said channel-shaped portion intermediate to said confronting flanges, and a plurality of load supporting members, each comprising a relatively thick, metallic strip bent to cradle-shaped formation, a portion of about the same thickness secured thereto and having at its top oppositely extending lugs lying in the plane of said portion,

and another lug rigidly secured to said load supporting member on the face of said lug-bearing portion opposite to that in contact with said



strip, said last-named lug extending in the direction perpendicular to the plane of said lug-bearing portion and being adapted to be received in said series of openings.

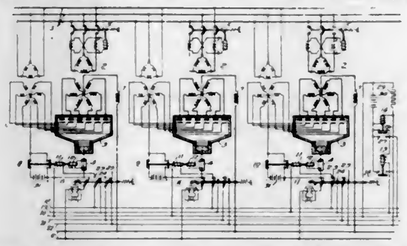
2,285,633
RELAY
Emerson Venable, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 26, 1939, Serial No. 286,628
11 Claims. (Cl. 201—63)



1. In electrical apparatus provided with a dielectric containing a halogenated compound which when decomposed by an electric arc evolves an acidic gas which reacts with a metallic oxide, in combination, a plurality of spaced electrodes, an oxide of a metal selected from the groups having an atomic number ranging from 24 to 30, inclusive, and from 42 to 48, inclusive, disposed to connect the electrodes to one another, the metallic oxides having high ohmic resistance to the flow of electric current and capable of reacting with the evolved acidic gas to produce a material which is a good conductor of electricity.

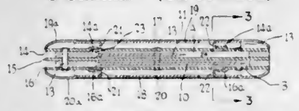
2,285,634
CONVERSION SYSTEM
Jürgen von Issendorff and Karl Maertens, Berlin-Siemensstadt, Germany, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 19, 1939, Serial No. 310,006
In Germany December 10, 1938
9 Claims. (Cl. 175—363)

1. Protective device for current rectifier plants, comprising a plurality of parallel operating mercury vapor rectifiers, grid control means for each of said rectifiers, a source of blocking potential for each of said control means, means responsive to arc back in any of said rectifiers for applying said blocking potentials to all of said control means, an arc back responsive disconnecting means in series with each of said rectifiers, and



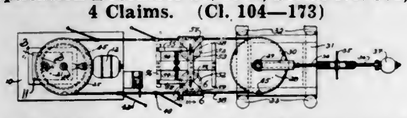
means responsive to the opening of the disconnecting means of the rectifier undergoing arc back for removing the blocking potential from the control means of the remaining rectifiers.

2,285,635
KNIFE
Henry Vossler, Providence, R. I., assignor to Imperial Knife Company, Inc., Providence, R. I., a corporation of Rhode Island
Application January 19, 1940, Serial No. 314,649
3 Claims. (Cl. 30—164)



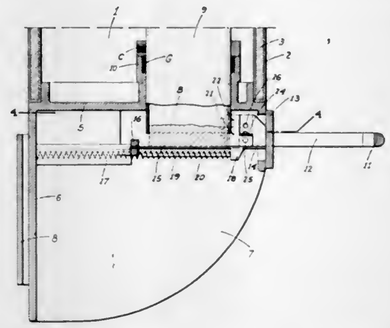
1. In a knife handle construction, a frame comprising a plate having apertures therethrough, a scale supporting member comprising tips or bolsters and a depressed portion interconnecting said bolsters, downwardly projecting tongues in said depressed portion, said tongues being received in said plate apertures and having portions thereof bent over to lie parallel to the plane of said plate, and recessed areas in said plate adjacent said apertures, said bent over tongue portions being received in and completely filling without projecting from said recessed areas.

2,285,636
SKI TOW MECHANISM
David A. Wallace, Detroit, Mich., assignor of one-fourth to Eugene Wallace, Detroit, Mich., and one-fourth to Gaylord Wallace, Burwell, Nebr.
Application December 23, 1940, Serial No. 371,237
4 Claims. (Cl. 104—173)



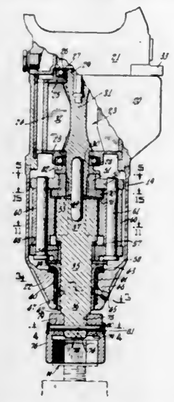
1. A ski tow comprising spaced pulley members each having a pair of circumferential peripheral grooves, an endless conveyor member mounted on said pulley members comprising a pair of substantially parallel flexible bands each guided in corresponding grooves of said pulley members, a plurality of cleats each fixed to registering portions of both of said bands for holding portions of the latter between said pulley members in spaced relation and adapted to hold said bands against twisting about their respective axes, resiliently extensible hand grip elements secured to selected cleats of said conveyor member, said elements being yieldable when gripped by a skier for cushioning shock occasioned by acceleration of the latter to the speed of movement of said conveyor member, and apparatus for drivingly rotating one of said pulley members to propel said conveyor member.

2,285,637
BUTTER SERVER
Henry A. Weller, Georgetown, Calif.
Application December 13, 1940, Serial No. 370,041
6 Claims. (Cl. 31—21)



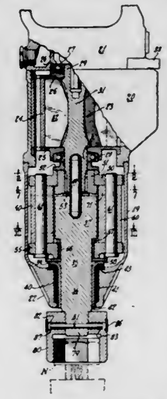
2. A butter server comprising a housing, an upstanding tube on the housing to slidably receive a cube of butter, a horizontal slide assembly disposed beneath the tube and including an actuating handle outside the housing and a cutting element within the housing and means mounting the assembly on the housing for horizontal reciprocating movement; said means including a member removably mounted on the housing and whose removal allows of removal of the assembly as a unit from the housing.

2,285,638
IMPACT CLUTCH
Lester A. Amtsberg, Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey
Application November 22, 1939, Serial No. 305,708
22 Claims. (Cl. 192—30.5)



1. An automatic overload release clutch comprising a driven spindle having jaws, a revoluble carrier, dogs supported by the carrier for pivotal movement about axes parallel to the driven spindle, releasable means for holding the dogs in driving engagement, and means for delivering a driving force to each of the dogs at a point offset from the pivotal axis to impart to the dogs a releasing component of force adapted to overcome the holding means when the torque requirement of the driven spindle becomes excessive, characterized in that the means for delivering a driving force to the dogs comprises a driving cam coaxial with the spindle and having projections loosely fitting complementary recesses in the dogs, the recesses being intermediate the spindle and the pivotal axis.

2,285,639
IMPACT CLUTCH
Lester A. Amtsberg, Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey
Application July 3, 1941, Serial No. 400,895
12 Claims. (Cl. 192—30.5)

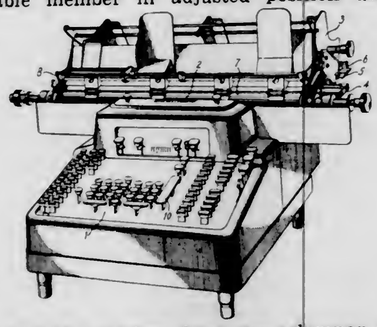


1. An impact clutch comprising a rotatable anvil having longitudinally extending jaws, hammer dogs revoluble in a path surrounding the jaws, a revoluble carrier for the dogs, said dogs being pivotally mounted on the carrier for limited rocking movement into and out of the path of the anvil jaws, the pivotal axes extending parallel to the axis of rotation of the anvil, means for driving the dogs, said driving means comprising a driving cam coaxial with and adjacent one end of the anvil, said cam having an open slot associated with each dog, the dog having a projection within said slot, the side wall of the slot engaging the dog to impart a force thereto extending along a line slightly offset inwardly from the pivotal axis of the dog, whereby to rock it toward releasing position when the driving cam rotates ahead of the carrier.

2,285,640
ACCOUNTING MACHINE
Walter A. Anderson, Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application June 29, 1938, Serial No. 216,465
7 Claims. (Cl. 235—60)

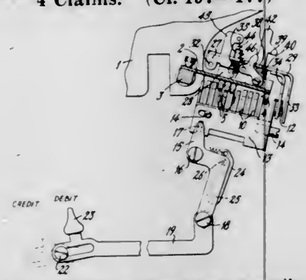
1. In a machine of the class described, a traveling carriage arranged for tabulation to a plurality of columnar positions, means, including an adjustable member mounted on a stationary part of the machine, for controlling tabulation of the carriage to the different columnar positions, a manipulative means for controlling adjustment of the adjustable member, and means

rigidly secured on the carriage to retain the adjustable member in adjusted position during



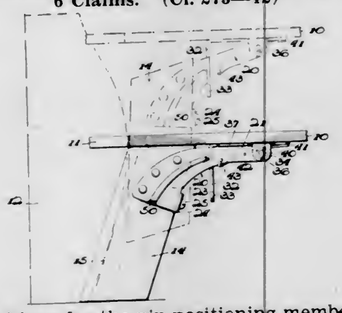
travel of the carriage from one columnar position to the other.

2,285,641
CARRIAGE CONTROL FOR ACCOUNTING MACHINES
Walter A. Anderson, Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application October 31, 1940, Serial No. 363,732
4 Claims. (Cl. 197—177)



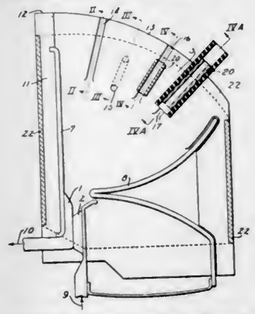
1. In a machine of the class described having a traveling paper carriage, a control plate pivoted upon the carriage, cams mounted on the plate in various columnar positions and movable into and out of effective position, a member on the machine, against which the cams move when they are in effective position, for raising the plate to inoperative position and causing skipping of a column, and a separate latch for holding each cam in effective position.

2,285,642
TENPIN SETTING APPARATUS
Bernard A. Ball, Smethport, Pa.
Application June 5, 1941, Serial No. 396,757
6 Claims. (Cl. 273—42)



2. A hinge for the pin positioning member of a pin setting machine, comprising a member adapted to be secured to the pin platform, a removable pintle mounted in said member, elongated hinge members one for each side of the said member, the one end of each elongated member being provided with a perforation through which the pintle may pass, and the other end thereof having a flat side by which it may be secured to the side of the pin positioning member and a right angled flange by which it may be secured to the back of the pin positioning member.

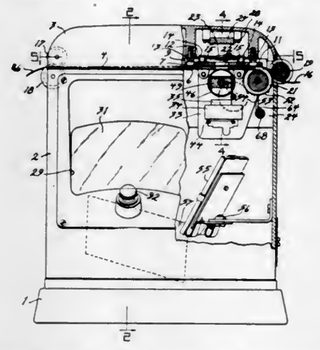
2,285,643
ARC CHUTE FOR ELECTRIC CIRCUIT BREAKERS
Hans Beiersdorf, Berlin-Dahlem, Kurt Haese, Berlin-Grunewald, and Otto Müller, Berlin-Siemensstadt, Germany, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 29, 1941, Serial No. 376,412
In Germany August 28, 1939
28 Claims. (Cl. 200—147)



1. In a circuit interrupter, means for establishing an arc, a relatively narrow extinction slot having a relatively widened entrance portion adjacent said arc, means for causing the arc to pass through said widened entrance portion and into said narrow extinction slot to effect the extinguishment thereof, and means adjacent said widened entrance portion for relieving the pressure within said narrow extinction slot to facilitate the entry of the arc therein.

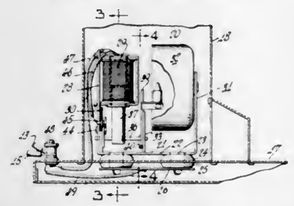
2,285,644
VIEWING DEVICE
Hugo Bernzott, Chicago, Ill., assignor to The Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application March 29, 1940, Serial No. 326,707
7 Claims. (Cl. 88—24)

1. In a viewing device, the combination with a light enclosing casing, of means therein for releasably positioning an image bearing member in an upwardly disposed horizontal plane, means in said casing for illuminating said positioned image bearing member comprising a light source disposed below said image bearing member and out of illuminating relation with said image bearing member and a reflector above said image bearing member for reflecting light from said light source downwardly through said image bearing member, a translucent image receiving element on and extending across an opening in said casing below said positioning means, and means within said casing below said image bearing member for projecting an illuminated image from said image bearing member to said receiving element comprising a vertically disposed projection lens below said image bearing member and a plurality of reflecting members forming a



circuitous light path from said projection lens to said receiving element.

2,285,645
ELECTROMAGNETICALLY OPERATED RECIPROCATING MECHANISMS
Joseph L. Bonanno, Maplewood, N. J., assignor to The Lionel Corporation, New York, N. Y., a corporation of New York
Application January 23, 1940, Serial No. 315,153
5 Claims. (Cl. 177—7)

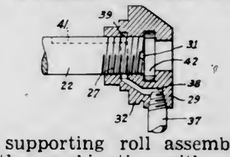


1. A bell mechanism comprising a sheet metal frame bottom, two upwardly bent sides and an upwardly bent element between the sides, a bell secured to one of said sides, a solenoid coil secured to the other of said sides, a clapper pivotally secured to the upwardly bent element, and a vertically movable armature having a driving connection with the clapper to bring the clapper against the bell when the coil is energized.

2,285,646
COATING COMPOSITION AND PROCESS
Edwin T. Clocker, Bethlehem, Pa.
No Drawing. Original application January 24, 1940, Serial No. 315,409. Divided and this application August 3, 1940, Serial No. 351,101
9 Claims. (Cl. 106—253)

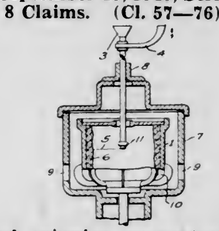
1. A liquid coating composition in water vehicle consisting essentially of a water-soluble condensation product of an acyclic olefinic acid having less than ten carbon atoms in the carbon chain combined at an intermediate point in a carbon chain of a nonconjugated unsaturated nonhydroxylated siccative oil, and neutralized at the acidic grouping with an ammonia base of the class which consists of ammonia, water-soluble primary, secondary, and tertiary aliphatic amines and water-soluble hydrocarbon-residue substituted ammonium hydroxides, and a pigment maintained in dispersion by the condensation product in addition to the water vehicle.

2,285,647
BELT CONVEYER SUPPORTING ROLL
Frank E. Deems, Ralph Y. MacIntyre, Mark S. Greeley and George R. Fisk, Birmingham, Ala., assignors to Continental Gin Company, a corporation of Delaware
Application August 4, 1940, Serial No. 351,396
6 Claims. (Cl. 308—20)



1. In a supporting roll assembly for a belt conveyer, the combination with a roll embodying roll heads having bearing recesses therein and a shaft extending through the roll and recesses and having a grease passage therein communicating with the recesses, and bearings cooperating with the shaft and the recess walls, of a supporting nut on each end of the shaft adapted to hold the bearings in place having a downwardly opening socket therein closed at its upper end, and a bracket having a head over which the socket fits.

2,285,648
SPINNING DEVICE
Harry D. Else, Toledo, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 10, 1940, Serial No. 356,123
8 Claims. (Cl. 57—76)

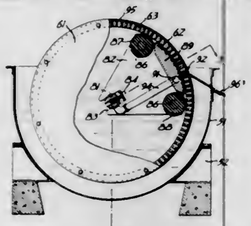


1. A thread spinning apparatus including a vertically mounted spinning bucket for forming a cake of thread, means for driving said spinning bucket, and means for feeding the thread along the height of the bucket, a compartment which encloses said bucket, said compartment being perforated adjacent the lower end of the bucket and being otherwise substantially air-tight for effecting a vacuum within said chamber by virtue of rotational movement of said bucket, said vacuum drawing the thread downwardly of said bucket, and means mounted on and extending radially of the bucket, adjacent the bottom thereof, for creating centrifugal air currents thereby increasing the amount of vacuum created in said chamber by said bucket.

2,285,649
CONTINUOUS FILTER
Franklin J. Evans, Hazleton, Pa., assignor to Oliver United Filters Incorporated, Oakland, Calif., a corporation of Nevada
Application July 3, 1939, Serial No. 282,710
3 Claims. (Cl. 210—199)

1. A filter comprising: a tank; a closed-ended perforate drum mounted for rotation within said tank; means for maintaining said drum under an inwardly directed differential filtering pressure; discharge means adjacent one side of the exterior peripheral surface of said drum for re-

moving cake formed thereon; a shoe mounted within said drum at a point opposite said discharge means for blanking off a longitudinally



extending peripheral strip of said drum; and means for maintaining positive clearance between the shoe and the drum.

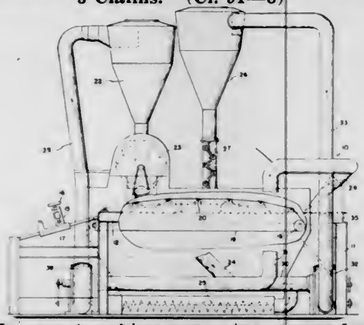
2,285,650

APPARATUS FOR MAKING CARPETS

Harold P. Faris, Philadelphia, Pa., and Daniel W. Yochum and Russell B. Logan, Trenton, N. J., assignors to National Automotive Fibres, Inc., Detroit, Mich., a corporation of Delaware

Application March 8, 1939, Serial No. 260,664

3 Claims. (Cl. 91—8)



1. In carpet making apparatus, means for sifting cut fibers downwardly onto an advancing, adhesive coated web, said means comprising a polygonal rotating sieve open at its ends and inclined from the horizontal, a hopper for fibers, and means connecting said hopper and the upper end of said sieve for feeding fibers thereto, a conduit connecting to the lower end of said sieve to receive fibers which do not pass radially through the sieve, a trough beneath said web for receiving fibers which pass radially through said sieve and do not remain on said web, a distributor located above said web at a point further along in the direction of advance than said sieve, a second conduit connecting said first conduit and said trough with said distributor, and a blower for forcing fibers through said second conduit to said distributor.

2,285,651

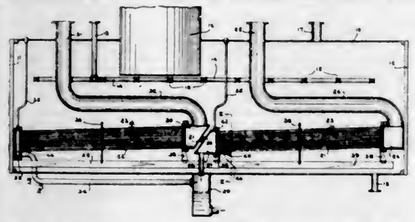
MULTIPLE BUNDLE VAPOR GENERATOR

Frederick K. Fischer, Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 25, 1940, Serial No. 362,827

5 Claims. (Cl. 257—236)

1. In heat exchange apparatus; a shell; a plurality of tube bundles extending longitudinally of the shell and disposed in end-to-end relation, each of said bundles comprising a plurality of tubes and boxes connected to the ends thereof; means at each end of the shell securing the box adjacent each end against movement toward said end; and means carried by the shell inter-



mediate its length for limiting movement of one of the inner boxes away from the other box of its bundle, said inner boxes being disposed in abutting relationship.

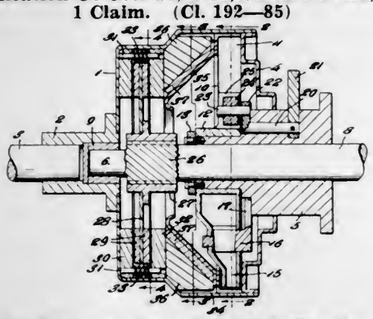
2,285,652

CLUTCH

John Jacob Flickinger, Massillon, Ohio, assignor of one-tenth to Raymond O. Morgan, Orrville, Ohio

Application October 24, 1941, Serial No. 416,401

1 Claim. (Cl. 192—85)



A clutch comprising a driving shaft, a housing fixed on said driving shaft, a driven shaft extending rotatably into the housing and including an enlarged portion, a hub splined on said enlarged portion, a ring fixed in the housing, pins projecting from said ring, a disk fixed on the hub and engageable with the ring, a ring slidable on the pins and engageable with the disk, said disk and the rings constituting means for frictionally connecting the driven shaft to the housing for actuation thereby, springs on the pins for disengaging the second-named ring from the disk, a substantially channel-shaped, annular casing fixed in the housing and including a substantially conical inner portion, a plurality of substantially segmental blocks in the casing operable on said conical portion for engaging the rings and the disk, guides for the blocks on the conical portion of the casing, a fluid in the housing operable by centrifugal force for actuating the blocks for engaging the rings and the disk, and means for controlling said fluid.

2,285,653

PERMANENT WAVING DEVICE

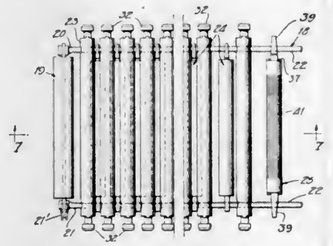
Max Haberman, Bronx, N. Y.

Application September 4, 1940, Serial No. 355,284

9 Claims. (Cl. 132—32)

9. In a permanent waving device, a pair of spaced parallel side bars, a plurality of upper cross members slidably mounted on said side bars, means for locking the cross members in

adjusted positions upon the side bars, a plurality of lower cross members slidably mounted on said side bars and respectively disposed in a vertical plane intermediate adjacent upper cross members whereby a tress of hair may be threaded over the upper cross members and under the



lower cross members, means carried by one end of said side bars for clamping a tress of hair adjacent the scalp, and windable means at the other end of the side bars on which the free tip end of the tress may be wound and held to tension the tress when threaded between said upper and lower cross members.

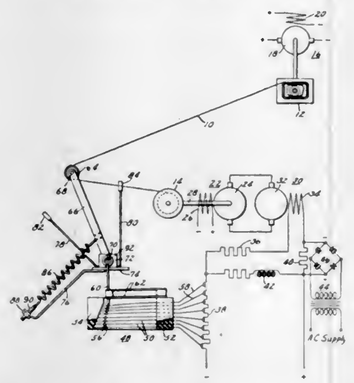
2,285,654

TENSION REGULATOR

Clinton R. Hanna, Pittsburgh, and Stanley J. Mikina, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application April 30, 1941, Serial No. 391,082

10 Claims. (Cl. 242—45)



1. Apparatus for controlling the tension of a wire extending between a winding mandrel and a supply reel comprising, in combination, means for driving the mandrel to wind the wire thereon, a motor cooperative to control the speed of the reel and the tension of the wire, a pivotally mounted idler pulley associated with the wire and disposed for movement about its pivot as the wire tension changes, an over-center spring so associated with the pivotally mounted idler pulley as to restrain movement of the pulley about its pivot as the tension of the wire between the mandrel and the reel increases, and means comprising a variable graduated resistor responsive to a movement of the idler pulley about its pivot for controlling the speed of the motor to control the speed of the reel and the tension of the wire.

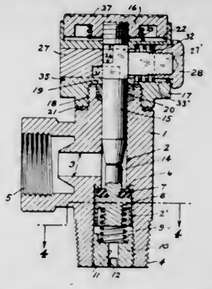
2,285,655

FLUID CONTROLLING VALVE

Richard F. Heinemann, Oakland, Calif., assignor to Victor Equipment Company, San Francisco, Calif.

Application January 2, 1941, Serial No. 372,872

2 Claims. (Cl. 251—164)



1. In a fluid controlling valve having a fluid ported body with a valve seat in said port and a spring closed valve member urged against said seat, a reciprocable stem extending from a bore in said body aligned with said valve member for opening the valve when pushed inwardly, said stem formed with a push button at its outer end accessible for pushing upon by a person's finger for opening the valve, a reciprocable rod projecting from a bore in said body and formed with a push button at its outer end, said rod arranged in crossing relation to said stem and said stem formed with a flattened portion, and the rod formed with a slot embracing opposite sides of said flattened portion, and locking lug and notch means formed on the stem and rod respectively for interlocking in holding the valve in opened position, and spring means urging said rod toward stem locking position.

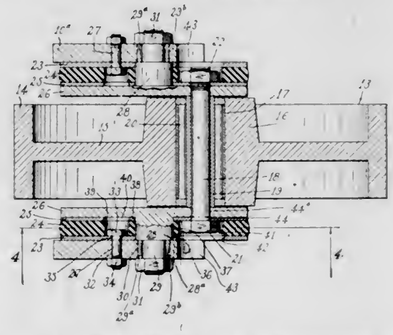
2,285,656

TRUCK CASTER

Walter F. Herold, Easton, Conn., assignor to The Bassick Company, Bridgeport, Conn., a corporation of Connecticut

Application March 15, 1941, Serial No. 383,539

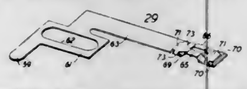
7 Claims. (Cl. 16—44)



1. In a truck caster, the combination of a wheel, an axle carried thereby and projecting therefrom, end supports having free extremities, and torsion devices including rubber disks interposed between the extremities of said supports and the axle ends and permitting a cushioned upward movement of the wheel, said torsion devices also including inner and outer plates

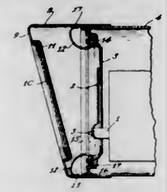
bonded to the disks, and disk-like members mounting said plates and disks from said end supports.

2,285,657
BRUSH CARRIAGE FOR SELECTOR SWITCHES
Clarence N. Hickman, Jackson Heights, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 26, 1940, Serial No. 371,672
6 Claims. (Cl. 200—171)



1. In a brush for a selector switch, a flexible spring member having a raised contact portion extending transversely thereof adjacent to its free end, and a slider insulatedly supported on said spring on each side of said raised contact portion.

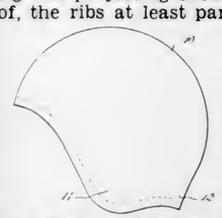
2,285,658
INSTRUMENT COVER
Richard C. Hitchcock, Upper Montclair, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 10, 1940, Serial No. 313,301
6 Claims. (Cl. 88—1)



1. An instrument having an indicating portion adapted to be visually observed, an anti-glare cover associated with said instrument including a supporting structure, means for mounting said supporting structure on said instrument adjacent said indicating portion, a light permeable panel, means attaching said panel to said supporting structure at an oblique angle to the indicating portion of the instrument in a position to permit observation of said indicating portion therethrough, said light permeable panel having a surface capable of reflecting light impinging thereon at certain angles of incidence, and said supporting structure being adjustable to permit rotary movement of said light permeable panel to different positions oblique to said indicating portion of the instrument to reflect incident light away from a point of observation.

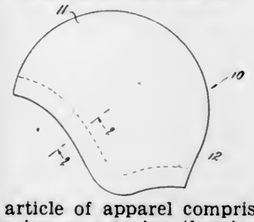
2,285,659
BATHING CAP
Thomas J. Howland, Long Branch, N. J.
Application January 23, 1940, Serial No. 315,199
10 Claims. (Cl. 2—68)

1. In an article of apparel comprising a hollow body having an opening therein, a pair of elastic ribs inside the body extending generally parallel to the margin of the opening and projecting inwardly from the body for sealing the edge portion thereof when the body is worn, and a single flexible mounting for the ribs connected to the inside of the body and having a relatively broad base, the mounting tapering from said base to the bases of the ribs, and the ribs diverging from the mounting and projecting outwardly over the sides thereof, the ribs at least partly defining a



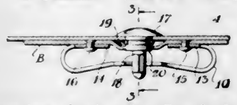
cavity between them and being operable under the pressure of an object against them to fulcrum away from each other on said mounting whereby air is expelled from the cavity and a suction created therein.

2,285,660
BATHING CAP
Thomas J. Howland, Long Branch, N. J.
Application April 13, 1940, Serial No. 329,421
11 Claims. (Cl. 2—68)



1. In an article of apparel comprising a hollow body having an opening therein, an elastic rib on the inside of the body extending generally parallel to the margin of the opening and projecting inwardly with its free end terminating in an initial skin-contacting edge located on one side of the center line of the rib, the rib being flexible and readily deflectable laterally whereby said edge when pressed against the skin is deflected in the direction in which it is off-center and tilts the rib in said direction, the rib having a longitudinal groove in its lagging side confined to said lagging side and disposed between the free end portion of the rib and the adjacent part of the body, the side edges of the groove being operable to contact the skin when the rib is deflected and thereby seal the groove.

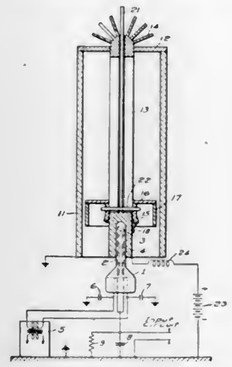
2,285,661
FASTENER
Alfred Hryzack, New York, N. Y.
Application February 4, 1941, Serial No. 377,286
1 Claim. (Cl. 24—221)



In a fastening device for firmly but detachably connecting two plates, as described, an elongated, split leaf spring having its ends rounded and re-entrantly bent, inwardly directed feet formed at said ends of the spring engaging one of said plates, means to secure said feet to said plate, the split portion of said spring having a median, substantially diamond-shaped opening, and a bolt having an enlarged screw head seated with its head in a seat formed with the other of said plates and extending with its shaft

through both plates, collars on said shaft forming a groove between them, a flat, split ring spring seated in said groove to hold said bolt in place, a substantially inverted vase-like body or member formed with the shaft of said bolt having at one end laterally projecting ears adapted to be passed through the diamond-shaped opening when the bolt is passed through both plates, and to engage the edges of said split in the spring when the bolt is given a turning movement to snap the parts into locking position, to firmly connect the plates with the material of the spring yielding under the pressure of said ears.

2,285,662
TUBE COOLING MEANS
John A. Hutcheson, Catonsville, Md., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 19, 1940, Serial No. 357,355
5 Claims. (Cl. 250—27)



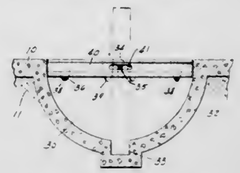
1. In combination with an electrical discharge device adapted to transmit ultra-short radio waves and having an anode comprising a metallic portion of its wall, air-cooling means including an oscillation circuit comprising a substantially solid central core having a high heat conductivity in good heat exchanging relation with said anode having a surrounding tubular portion connected to said core at the end remote from said discharge device by an end plate.

2,285,663
ADJUSTABLE ROOF JACK
Joseph J. Ingram, Portland, Oreg.
Application February 17, 1941, Serial No. 379,382
3 Claims. (Cl. 304—20)



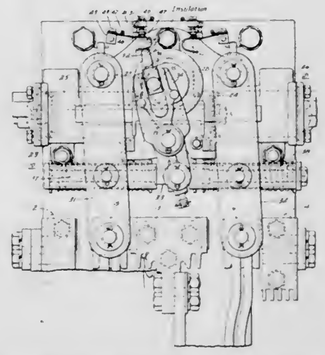
1. An adjustable roof jack, comprising in combination, a pair of base bars, with each of the base bars being offset adjacent their ends, teeth disposed on the roof engaging underside of each of the offset ends, a seat, the seat being hingedly secured to the same ends of each of the base bars, a pair of struts hingedly secured to the swinging edge of the seat member, spaced holes disposed in the intermediate portion of each of the base bars, a carrier tube, pairs of locking bolts disposed in the opposite ends of the carrier tube and adapted for being moved longitudinally of the carrier tube, reactance means for normally maintaining each of the locking bolts extended relative to the carrier tube, a manipulative lever hingedly secured to the carrier tube and a link connecting each of the locking bolts with the lever.

2,285,664
AIRPORT BARRICADE GUARD
Albert F. Johnston, Narberth, Pa.
Application June 15, 1940, Serial No. 340,855
4 Claims. (Cl. 39—5)



1. In combination, a landing field having a landing surface and formed with a plurality of spaced pits of substantially arcuate formation, each pit being formed with a socket substantially centrally at the bottom thereof, a barricade element in each pit normally closing the top of said pit, and pivot means disposed substantially above said socket for pivotally mounting said barricade element, one end of said barricade element being movable into said socket when a vertical position has been reached.

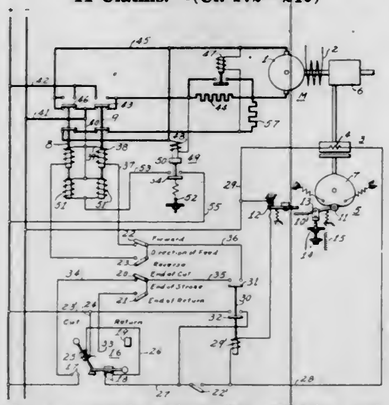
2,285,665
CONTROL APPARATUS
Ruel C. Jones, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 16, 1940, Serial No. 324,418
5 Claims. (Cl. 200—6)



1. In a switch, in combination, a pair of main contact members, resilient means for pressing said contact members into engagement, a rotatable eccentric pin for compressing said resilient means, a pair of auxiliary contact members, and means rotating with said eccentric pin for actuating said auxiliary contact members into

engagement by rotative movement of said eccentric pin only after said resilient means is compressed.

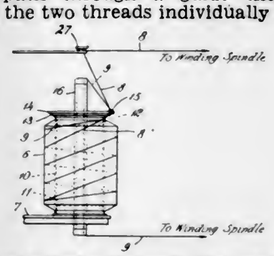
2,285,666
FEED DRIVE MOTOR CONTROL
George E. King, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 24, 1940, Serial No. 362,583
11 Claims. (Cl. 172—240)



1. In a control system for effecting relative reciprocating movement between a machine tool element and a work piece, in combination, a feed motor for effecting lateral incremental feed motions of one of said relatively movable elements at the end of its reciprocating movement, a constant supply source of electric potential therefor, circuit means including a time delay relay, a limit switch and a reversing contactor, operable by said limit switch having make and back contact members for selectively effecting said lateral feed motion in either one lateral direction or another for controlling the direction of rotation of said motor, said reversing contactor having a main operating coil which, when energized, effects closing of said make contact members and having an additional back contact coil which is energized through said time delay relay, said back contact coil being effective only when said main operating coil is deenergized, said time delay relay having an operating coil connected across said source of potential and effective to interrupt the circuit through said back contact coil a predetermined period of time following interruption of said circuit means so as to effect sealing of said back contact members by the residual magnetic effect on said time delay relay by said source of electric potential.

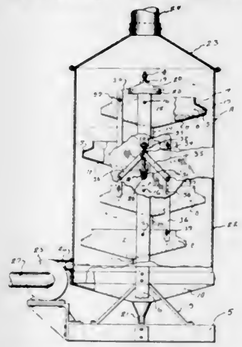
2,285,667
UNWINDING THREAD
Ernest Charles Kontz, Jr., Rome, Ga., assignor to Tubize Chatillon Corporation, a corporation of Delaware
Application April 26, 1941, Serial No. 390,550
11 Claims. (Cl. 242—128)

1. The improvement in unwinding two separate threads from a single package which comprises simultaneously drawing the two threads at the same speed from the package in a substantially circular path approximate the package, one of said threads being drawn from the circular path through the center of the package and the other of said threads being drawn from the circular path through a guide therefor, and handling the two threads individually after being



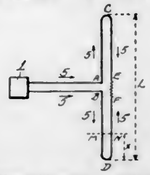
drawn respectively through the center of the package and from said guide.

2,285,668
HYDRAULIC COOLER
Elmer B. Korth, Burlington, Wis.
Substituted for abandoned application Serial No. 228,112, September 2, 1938. This application March 24, 1941, Serial No. 384,850
3 Claims. (Cl. 261—111)



1. In a liquid cooling device, a base, supporting standards secured to the base, a series of superimposed cooling pans rockably mounted between the standards, a rotatable shaft carried by the standards, means for rotating the shaft, feed screws, means for rotatably supporting the feed screws, means for rotating the screws from said shaft, traveling nuts on the screws, links pivotally connecting alternate pans, and arms pivotally connected to the nuts and links.

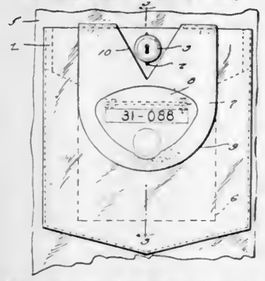
2,285,669
ANTENNA
Gerard Lehmann, Paris, France, assignor to Societe Anonyme des Industries Radioelectriques, (S. A. D. I. R.), Paris, France, a corporation of France
Application June 4, 1938, Serial No. 211,860
In France June 10, 1937
12 Claims. (Cl. 250—33)



1. An omni-directional aerial element constituted by two similar conductors connected together at one of their ends and arranged parallel

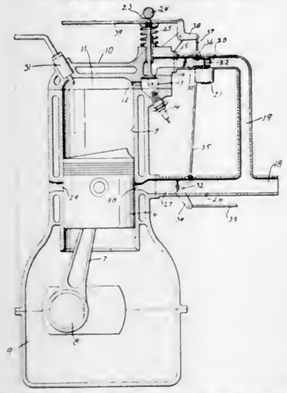
to each other and spaced apart to an extent which is very small with respect to the shortest wave to be handled by said element, an impedance substantially equal to the characteristic impedance of said two conductors for terminating the end of one of said conductors remote from the connected end whereby said conductors are traversed by progressive waves, a feeder connected to the other of said two conductors remote from the connected end, said two conductors being so close together that the aerial element is characterized by its substantially constant radiation characteristics over a wide range of wavelengths.

2,285,670
BADGE CARRIER
Bernard Logsdon, East Moline, Ill.
Application December 3, 1941, Serial No. 421,512
2 Claims. (Cl. 24—3)



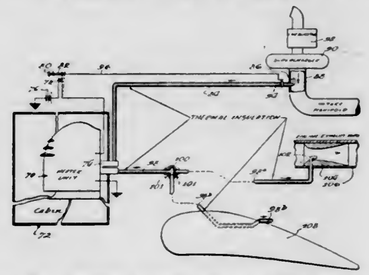
1. A badge carrier for insertion in a garment pocket having an upper buttonhole and a button sewed to the garment, said carrier comprising an elongated rectangular body member for insertion in said pocket, an end flap on said member for attachment of the badge thereto and foldable on said end over the edge of the pocket to hang pendent on the outside of said pocket, said body member and flap having a substantially diamond-shaped aperture in the longitudinal center thereof centered in the fold of the flap and through which the button stitches extend and which straddles the button to render the same readily accessible.

2,285,671
INTERNAL COMBUSTION ENGINE
Marion Mallory, Detroit, Mich.
Application January 31, 1941, Serial No. 376,885
2 Claims. (Cl. 123—32)



2. A two cycle internal combustion engine comprising a cylinder having a main combustion chamber at its upper end, a primary firing chamber having a constant restricted communication with the main combustion chamber, means for supplying under pressure a charge of air to the cylinder and a charge of carburetted mixture to the primary firing chamber, interconnected throttling means to limit the volumes of the two charges to such proportion that there is a substantially balanced pressure between the primary firing chamber and the cylinder to prevent the charges therein from commingling prior to ignition, means including a liquid fuel injector to supply a power charge to the main combustion chamber, and electrical means for igniting the carburetted mixture in the primary firing chamber and by the explosion thereof projecting a flame across the main combustion chamber to cause combustion of the charge in the latter.

2,285,672
AIRCRAFT HEATER
Henry J. De N. McCollum, Chicago, Ill.
Application February 17, 1940, Serial No. 319,557
6 Claims. (Cl. 237—12.3)

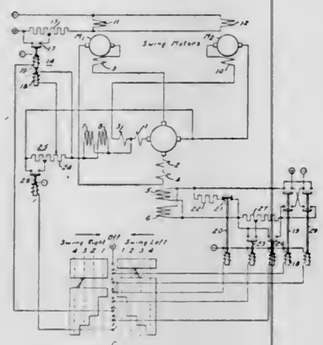


6. In an internal combustion heating system for the passenger compartment of an airplane powered by an internal combustion engine having a supercharger, the combination of an internal combustion heater arranged to heat a passenger compartment of the airplane, conduit means for supplying combustible mixture to the heater from a point in the engine combustible mixture supply system between the supercharger and the engine, a first passageway for discharging the products of combustion from said heater to a point in the engine exhaust system, a second passageway for discharging the products of combustion to a space maintained at subatmospheric pressure by the motion of the airplane, and means selectively operable to cause the discharge of the products of combustion from said heater to either of said passageways.

2,285,673
CONTROL CONNECTION
Phelan McShane, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 5, 1941, Serial No. 377,447
9 Claims. (Cl. 172—239)

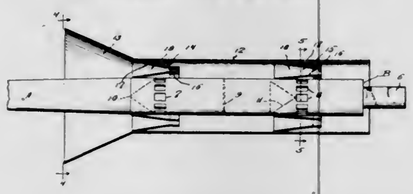
1. An electric control system for reversing an electric motor with minimum shock comprising, in combination, an electric motor, having an armature and shunt field winding, an exciting source of potential for said field winding, a variable voltage supply source for said motor including a generator having an armature in series circuit relationship with the armature of said motor, circuit means including a reversing con-

troller for effecting reversal of said motor, and relay means responsive to generator voltage and



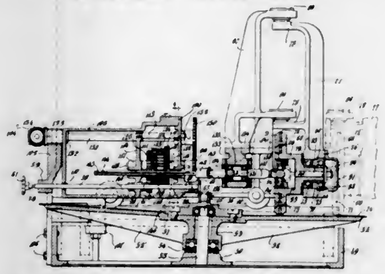
to the position of said controller for effecting weakening of said motor shunt field winding upon reversing movement of said controller.

2,285,674
MUFFLER OR SILENCER
Cecil L. Merett, Tulsa, Okla.
Application August 20, 1941, Serial No. 407,652
1 Claim. (Cl. 181—51)



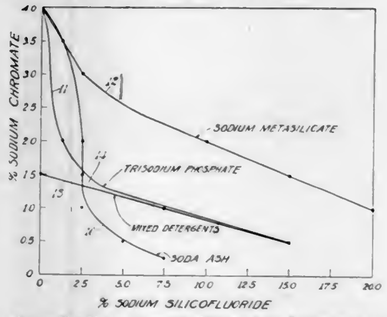
In an exhaust silencer, a tubular exhaust chamber having an exhaust receiving end and an exhaust escape end, a check valve in said escape end of the chamber to resist the escape of the exhaust therefrom and adapted to open under pressure to permit escape of exhaust when the exhaust in the chamber tends to materially retard incoming exhaust therethrough, an air drum surrounding the chamber and adapted to convey an annular stream of air about the chamber and toward the escape end of said chamber, said chamber having an annular group of ports for admitting exhaust from said chamber into the drum, a conical shaped perforated baffle arranged in the chamber between the ports and the receiving end of said chamber with the apex end thereof disposed toward said receiving end, a second baffle in the chamber between the ports and the escape end of the chamber, and a Venturi unit arranged in the drum and including spaced nested substantially conical shaped sleeves surrounding the ports and spaced therefrom and one of said sleeves being sealed to the drum and the other sleeve being sealed to the chamber between the ports and the receiving end of said chamber, said Venturi unit acting to increase the flow of air of the air stream in the drum to create a suction within one of the sleeves to assist the flow of exhaust through the ports for mixing with the air stream and the discharge thereof along with the air of the air stream to the atmosphere from the end of the drum adjacent the escape end of the chamber.

2,285,675
INTEGRATING MEANS
Herbert L. Merrick, deceased, late of Passaic, N. J., by Katherine S. Merrick, executrix, Passaic, N. J., assignor to Merrick Scales Mfg. Company, Passaic, N. J., a corporation of New Jersey
Application January 16, 1939, Serial No. 251,196
10 Claims. (Cl. 74—194)



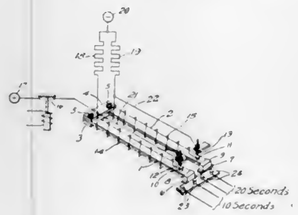
1. In integrating means, a disk having a friction face declining inwardly from the periphery toward the axis of the disk and supported to rotate about an axis to dispose a radial portion of the friction face in a horizontal plane, a friction wheel, and a carriage supported to have movement in a plane parallel to and having a portion disposed above the horizontal portion of the friction face of the disk and supporting the friction wheel to rotate about its axis and to have adjustment about an axis perpendicular to the axis of rotation of the wheel and positioning the friction wheel with a peripheral portion below its axis of rotation in alinement with the perpendicular axis of adjustment of the wheel in the carriage in frictional engagement with the horizontal portion of the friction face of the disk and adapted to move the carriage and assume different positions radially on the horizontal portion of the friction face of the disk and be rotated at different speeds from the rotation of the disk by adjustment of the friction wheel about its perpendicular axis of adjustment and changing the plane of rotation of the friction wheel relative to the plane of rotation of the friction disk.

2,285,676
DETERGENT COMPOSITION
Max Metziger and Alfred Long, Joliet, Ill., assignors to Blockson Chemical Co., Joliet, Ill., a corporation of Illinois
Application March 13, 1940, Serial No. 323,723
10 Claims. (Cl. 252—135)



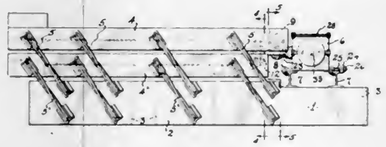
1. An alkaline composition for forming cleaning baths for metal-ware with tin surfaces comprising as the essential cleaning constituent a non-caustic alkaline detergent, less than 4% of a chromate salt of alkali metal, and an alkali metal silicofluoride up to about 15%.

2,285,677
TIME DELAY RELAY
Julius D. Myers, Scotch Plains, N. J., assignor to Westinghouse Electric Elevator Company, Jersey City, N. J., a corporation of Illinois
Application December 28, 1939, Serial No. 311,395
7 Claims. (Cl. 175—320)



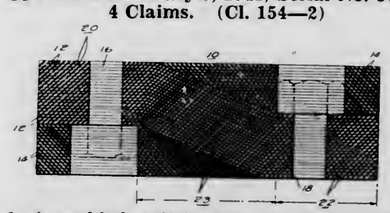
1. A time delay relay comprising a thermostatic element carrying circuit operating means arranged to close a controlled circuit when said element is in a cool position, a separate electric circuit including a heater unit in heat conducting relationship to said thermostatic element to retain it in deformed condition with its circuit operating means in open circuit position, said heating circuit including means for shunting said heater unit when said thermostatic element is in a predetermined position of maximum deformation to maintain it at a substantially constant temperature, and means for interrupting said heater circuit to return said thermostatic element to said cool position in a predetermined time to bring said circuit operating means to circuit closing position.

2,285,678
VIBRATORY SCREEN STRUCTURE
Gustave A. Overstrom and George Overstrom, Eagle Rock, and Conrad Overstrom, Altadena, Calif.
Application May 21, 1940, Serial No. 336,347
13 Claims. (Cl. 209—315)



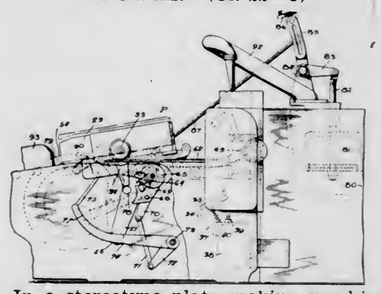
1. In a vibrating screen structure of the type described, a base, a pair of screen boxes arranged one above the other, transversely flexible spring legs interconnecting the boxes with the base, whereby the boxes are supported from the base, a drive shaft rotatably supported on the base having eccentrics positioned substantially 180° out of phase, pitmans cooperating with said eccentrics, and attaching means secured to the screen boxes at closely adjacent points, the points of connection of the pitmans to the attaching means lying in the same longitudinal vertical plane and in the same horizontal plane.

2,285,679
MOLDED ARTICLE
Peter A. Pontius, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 5, 1941, Serial No. 377,475
4 Claims. (Cl. 154—2)



1. A molded article for use under opposing forces introducing therein predetermined directional stresses comprising in combination, fibrous material bonded together with a binder material, at least a part of the fibrous material being in sheet form, said sheets being stacked in laminated relation and preformed to a predetermined shape, the binder associated with the sheets maintaining them in the predetermined shape, the fibrous material other than the preformed laminations being disposed adjacent the laminated preform and consolidated therewith to give an integral article of predetermined shape, each of the laminations of the preform being in a plane at the point of applied force which is substantially at right angles to the applied force with the laminations extending in and substantially conforming to the direction of the predetermined directional stresses whereby the article is resistant to splitting under the stresses introduced by the opposing forces.

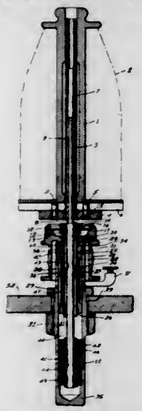
2,285,680
PLATE CASTING, FINISHING, AND COOLING MACHINE
Oscar C. Roesen, Scarsdale, N. Y., assignor to Wood Newspaper Machinery Corporation, Plainfield, N. J., a corporation of Virginia
Application December 26, 1940, Serial No. 371,816
15 Claims. (Cl. 22—3)



1. In a stereotype plate making machine, an inclined runway having an upper receiving end, a lower delivery end and an intermediate portion, a two-part casting mold, a pouring device therefor, means for transferring a mold part to the receiving end of the runway and separating the cast plate for travel by gravity over the runway, movable means to stop the plate in the intermediate portion of the runway, separate means for finishing said plate by successively shaving the concave face of the plate and severing one end thereof, means to divert the severed end of the plate from the runway, movable means to stop the plate in the lower delivery end

of the runway, a power source and mechanism for delivering power from said source in timed sequence to said pouring device, core-transferring means, plate finishing means, end diverting means and movable stop means.

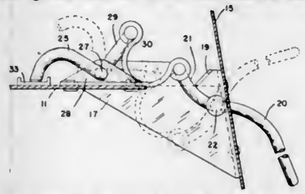
2,285,681
ROTATING ASSEMBLY
Frank C. Rushing, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 30, 1941, Serial No. 391,086
16 Claims. (Cl. 308—152)



1. A rotating assembly comprising a flexible spindle having means, near one end, for the attachment of a driven mass to be rotated, a driving-quill assembly surrounding an intermediate portion of said spindle in spaced relation thereto, bearing-means for said quill, a supporting frame for rigidly supporting said bearing-means, said supporting-frame having mounting-means for substantially rigidly restraining it against both radial translatory movement and angular tilting, said driving-quill assembly comprising a rotor-member for applying a driving-torque, said driving-quill assembly further comprising a spindle-driving and guiding means for the driving attachment of one portion of the quill-assembly to an intermediate portion of the spindle with some freedom of tilting movement of the spindle but with substantial restraint against radial lateral-translation of the spindle at said intermediate portion thereof, and a combined bearing-means and damping-means, surrounding the spindle near the other end thereof, for permitting the spindle to rotate with some freedom of lateral displacement, but damping such lateral displacement, near said other end.

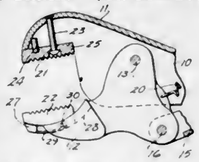
2,285,682
HOOD LATCHING MEANS
Albert J. Rhodes, Pontiac, Mich., assignor to American Forging & Socket Company, Pontiac, Mich., a corporation of Michigan
Application May 31, 1938, Serial No. 211,086
3 Claims. (Cl. 292—214)

1. Releasable holding means for a closure or the like, comprising in combination with suitable supporting means, a pair of spaced arms including a driving arm and a driven arm, said arms being rockable about fixed axes, a resilient swinging spring link element of substantially U-shape connecting the free ends of said arms, said link having rigid pivot portions at its ends connecting each end of the link to an end of one of the arms for rocking movement only about a single axis, whereby the link is held against rocking movement about any axis not parallel to the axes of its connection to said arms, a holding portion operable by the driven arm and movable to one position to restrain movement of said closure, and to another position to free the same for move-



ment, and means limiting the movement of said arms, the relaxed length of the link being greater than the distance between the ends of said arms when in the restraining position, whereby the driving arm and said link have an overcenter action, and said link is placed under compression and tends to prevent return movement of both of the arms and of the holding portion when in the restraining position.

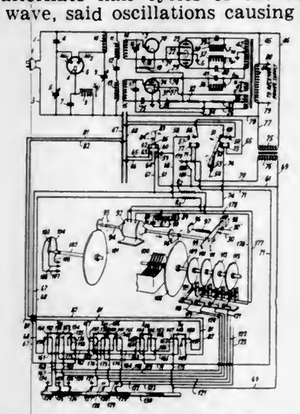
2,285,683
PLIERS
Gunnar F. Seashore, Minneapolis, Minn., assignor to Charles G. Walters, Storm Lake, Iowa
Application March 17, 1941, Serial No. 383,772
1 Claim. (Cl. 81—179)



A tool of the kind described involving pivotally connected jaws and handles for operating the same to produce clamping actions, one of said jaws having a concave surface, and a co-operating jaw plate having a convex surface engaged with the concave surface of said last noted jaw and therein mounted for oscillatory movements under clamping pressure, the concave surface of said last noted jaw having a depressed groove and said jaw plate having spaced lugs fitted to and working in said groove, a curved tie-rod rigidly connected to the ends of said lugs but spaced from said concave bearing surfaces, said curved tie-rod being of small cross section as compared with that of said groove, and a retaining pin extended through the walls of said jaw and through the space between said tie-rod and said engaged concave surfaces.

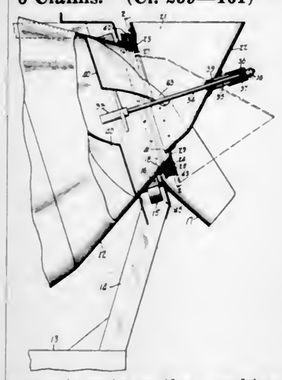
2,285,684
REMOTE CONTROL SYSTEM
Stuart W. Seeley, Bayside, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Original application October 9, 1937, Serial No. 168,180, now Patent No. 2,245,829, dated June 7, 1941. Divided and this application September 10, 1938, Serial No. 229,260
17 Claims. (Cl. 177—352)

1. In a remote control system which is operable over an alternating current power supply network upon which, in addition to the usual alternating current wave, are impressed control oscillations occurring during alternate half cycles of the alternating current wave for performing one desired controlling action and control oscillations occurring during the opposite half cycles of the alternating current wave for performing another desired controlling action, an operable relay device including a gas discharge tube adapted to be connected to said network and including means rendering said circuit responsive to control oscillations occurring during said first named alternate half cycles of the alternating current wave, said oscillations causing the relay



device to operate, a second relay device, a circuit including an electronic tube for operating said second relay device, means acting upon operation of said first named relay device to connect said electronic tube to the power supply network for energizing the electronic tube, said last named circuit including means whereby said electronic tube becomes excited sufficiently to operate the second relay device upon connection thereof to the network by the first named relay device only when control oscillations occurring during said opposite half cycles of the alternating current wave are present upon the network.

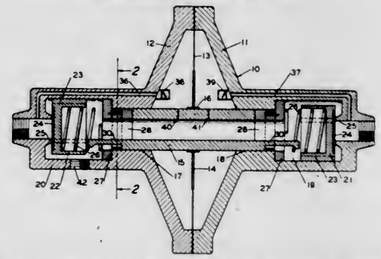
2,285,685
APPARATUS FOR CHARGING AND DISCHARGING CONCRETE MIXERS
Samuel Shafer, Jr., Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin
Application January 4, 1941, Serial No. 373,066
6 Claims. (Cl. 259—161)



1. In a concrete mixer, the combination of a

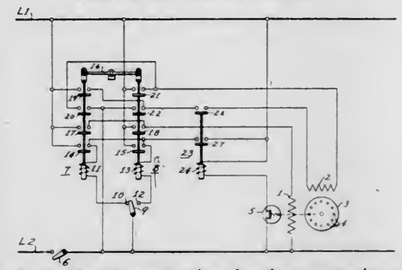
rotatable drum having an axial opening at one end, an annular portion external to and adjacent said opening, a charging element mounted on the annular portion of said drum and supported entirely by said drum, and means mounted axially of said drum yieldably urging said charging element against said drum.

2,285,686
HIGH PRESSURE GAS DISPENSING SYSTEM
James J. Shanley, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application February 19, 1940, Serial No. 319,786
24 Claims. (Cl. 62—1)



1. A system for storing and utilizing liquefied gas comprising two containers for the gas, a service line for connection with gas consuming appliances, a gas withdrawal conduit connecting each container to the service line, a valve controlling each withdrawal conduit, the outlet sides of the valves being exposed to a common pressure, valve operating means associated with the valves to set the same so that one valve remains closed until a minimum operating pressure is reached on the outlet side of the valves when said one valve opens, and gas pressure operated means associated with the valve operating means to change the setting so that the other valve remains closed until a minimum operating pressure is reached when said other valve opens.

2,285,687
REVERSING MEANS FOR SINGLE-PHASE MOTORS
Frederick D. Snyder, East Milton, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 5, 1940, Serial No. 351,536
9 Claims. (Cl. 172—278)



1. A single-phase motor having a main primary winding and an auxiliary primary winding, a contactor for establishing circuit connections for connecting said windings to a supply line for rotation of the motor in one direction, a second contactor for establishing other circuit connections for connecting said windings to the supply

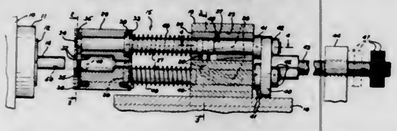
line for rotation of the motor in the reverse direction, switch means for selecting one or the other of said contactors, an auxiliary-contact means for controlling the energization of said contactors, a holding-contact on each contactor in bypassing relation to said auxiliary-contact means, and speed-responsive means for actuating said auxiliary-contact means to closed-circuit position when the motor is below a predetermined speed.

2,285,688

ARTICLE FORMING APPARATUS

John S. Stull, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application December 24, 1940, Serial No. 371,572
5 Claims. (Cl. 80—5.1)



1. In an article forming apparatus, a support, a plurality of spaced rotatable and reciprocable elements on said support arranged circumferentially about the axis of a rotating article, means for moving said elements as a unit to an advanced normal position on said support, article forming members eccentrically carried on said elements for simultaneous movement into engagement with the periphery of the article, means for advancing the support, the elements and forming members as a unit to predeterminedly position the latter longitudinally of the article, means effective for preventing further movement of the elements and forming members in the continued advance of the support, and means on said support cooperating with means on the rotatable elements effective after such positioning of the forming members for individually causing simultaneous rotary movements of the elements to move the members uniformly into forming engagement with the article.

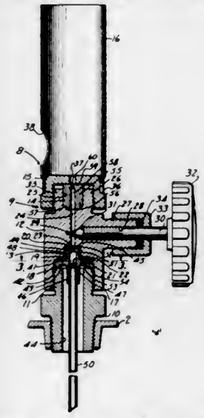
2,285,689

ATOMIZER

Boyd W. Tullis, Wichita, Kans., assignor to The Coleman Lamp and Stove Company, Wichita, Kans., a corporation of Kansas

Application January 12, 1940, Serial No. 313,562
6 Claims. (Cl. 299—140)

1. In a device of the character described, a body member having stepped bores forming a shoulder therebetween, an atomizing tip having a disk portion in the larger of said bores, means spacing the disk portion from said shoulder to form an annular air distributing space therebetween, a coaxial cylindrical portion projecting from said disk portion of the atomizing tip and having exterior surfaces thereof spaced from corresponding surfaces of the smaller of the bores to form an initial atomizing chamber and an annular passageway connecting the air distributing space with said initial atomizing chamber, means supplying liquid fuel to said atomizing tip for discharge through an axial orifice in the cylindrical portion thereof, said disk portion of the atomizing tip having an air discharge orifice connecting with said air distributing space, means retaining said disk portion in fixed position within said body member and forming a connection to a pressure chamber for supplying air to said last named orifice, a discharge tip having an elongated bore registering with an axial bore in said body member to form a fuel break-down chamber and provided with a restricted discharge orifice to effect retardation of droplets of liquid fuel and cohesion thereof on the wall surface of the break-down chamber, and a cap removably retaining said last named tip.

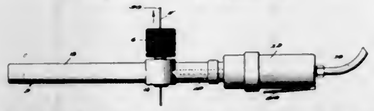


2,285,690

WIRE FEEDING DEVICE

Hermann E. Veit, Parkville, Md., assignor to The Glenn L. Martin Company, Baltimore, Md.

Application July 16, 1941, Serial No. 402,710
3 Claims. (Cl. 140—125)



1. A wire feeding device comprising an elongated, hollow handle bar; an opening transversely extending through the central portion of said bar; a chuck rotatably mounted on said handle bar and journaled into said opening; a gear affixed to the portion of the chuck extending into said hollow handle bar; a motor mounted in one end of said hollow handle bar having a drive shaft and pinion driven thereby and meshing with said gear for rotating the same, the said chuck having a passage therethrough in alignment with said opening in the handle bar whereby a wire may be threaded through said handle bar and chuck; a plurality of wedge-shaped jaws in said chuck normally spring pressed to grip the wire when the handle bar is manually moved forward to feed the wire and for releasing the said wire when the handle bar is moved in the opposite direction.

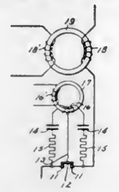
2,285,691

SWITCHING DEVICE

Johannes Wegener, Berlin-Johannisthal, Marcel Zühlke, Berlin, and Floris Koppelmann, Berlin-Siemensstadt, Germany, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 25, 1940, Serial No. 367,104
In Germany November 25, 1939
8 Claims. (Cl. 175—294)

1. A switching device for breaking and making a circuit with a condenser in parallel connection to the breaking point and a choke series-connected to the condenser within the current path parallel connected to the breaking point, which choke has a magnetic core saturated when passing a current in predetermined direction and of predetermined intensity and desaturating when the passing current is in the opposite direction, in which switching device simultaneously closing and opening interrupting gaps are series-connected, to which the voltage is distributed uniformly or in a certain proportion by parallel connecting impedances, characterized in that the choke is subdivided uniformly or in the proportion of the other impedances of the parallel current path and the individual parts are arranged together with the same or the corresponding parts of the impedances in the part circuits arranged parallel to the individual interrupting points.

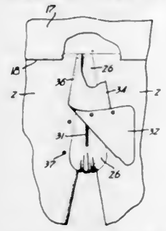


2,285,692

WORK GARMENT

Lauri A. Wickman, San Francisco, Calif.

Application April 8, 1940, Serial No. 328,404
2 Claims. (Cl. 2—227)



1. A work garment of substantially non-stretchable material comprising leg portions connected together at the back along a seam extending downwardly toward the crotch, a crotch piece inserted between the leg portions and having an end terminating at the base of the back seam, said piece being materially wider than the normal spacing between the leg portions to form a pocket-like part connecting the leg portions at the crotch and to permit wide separation of the leg portions at the crotch, and means affording access to while protecting from injury the urinary organ of a male wearer, said means including a fly overlying the crotch piece and secured at its opposite sides to the front of the garment and having a lower free end adapted to be lifted to expose said crotch piece, said crotch piece having a vertical slit therein under said fly, and means for closing the slit.

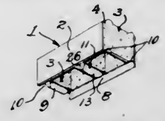
2,285,693

BUILDING BLOCK

Charles Raymond Wilson, Los Angeles, Calif.

Application December 27, 1938, Serial No. 247,753
4 Claims. (Cl. 72—38)

1. A building block comprising a pair of spaced side walls, a pair of spaced end walls connecting the side walls, two opposite sides of the block being open, and edge surfaces on said side and end walls at the open sides of the block, said edge surfaces on the end walls extending transversely of said edge surfaces on the side walls, said surfaces being of ogee curvature in transverse cross section and the said surfaces at opposite sides of the block being pitched in the same general direction relative to their respective walls and being of reverse curvature whereby a plurality of the blocks may be superimposed with their said surfaces in mating engagement, said surfaces substantially completely occupying the edges of said side and end walls so that the mating surfaces of the superimposed blocks develop the full shear resisting strength of said walls.

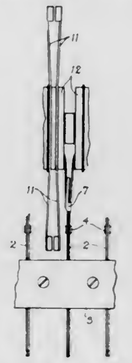


2,285,694

AUTOMATIC SWITCH OF THE TYPE USED IN TELEPHONE SYSTEMS

George Dewar, Coventry, England, assignor to The General Electric Company Limited, London, England, a British company

Application May 15, 1940, Serial No. 335,271
In Great Britain June 1, 1939
3 Claims. (Cl. 179—27.51)



1. In a switch mechanism having wipers with a pair of opposed conducting rings connected to said wipers and a brush having a pair of tines on one end bent apart, each of said tines engaging one of said rings when the brush is inserted between the rings, the provision of a catch member forming a part of one of said tines and movable into a position to catch and hold said tines together, when they are compressed, to facilitate removal and insertion of the brush between the rings.

2,285,695

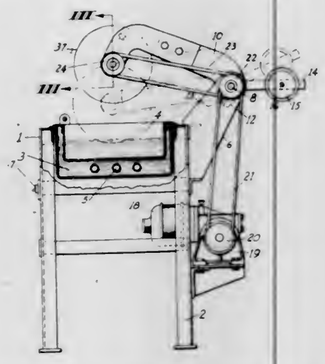
COATING MECHANISM FOR WHEELS

Nicholas Phillipp Di Cesare, Kohler, Wis.

Application April 11, 1941, Serial No. 387,993
3 Claims. (Cl. 91—46)

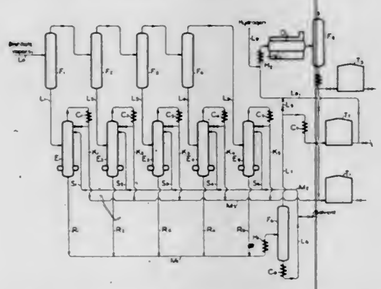
3. Mechanism for coating abrasive wheels with adhesive comprising, in combination, a container for holding adhesive, means for supporting said container, a frame pivotally mounted on said supporting means, an arbor detachably mounted on said frame and adapted to receive an

abrasive wheel, means whereby said frame may be pivoted to cause the periphery of said wheel



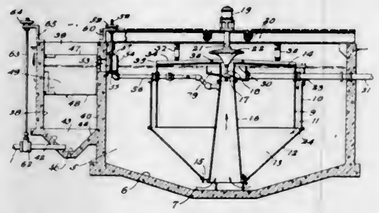
to contact said adhesive, and means for rotating said arbor.

2,285,696
PROCESS FOR DESULPHURIZING MINERAL OIL DISTILLATES
Clarence L. Dunn, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application August 26, 1940, Serial No. 354,188
15 Claims. (Cl. 196—13)



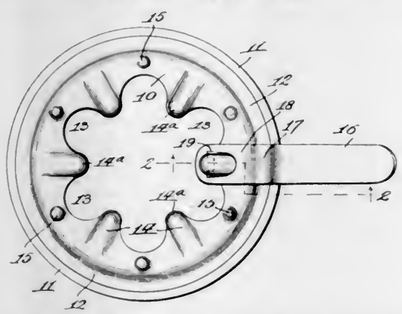
1. In the process of desulphurizing a hydrocarbon distillate containing organic sulphur compounds and olefines, the improvement comprising subjecting said distillate to a vapor phase extraction with a liquid selective solvent having preferential solvent powers for aromatic hydrocarbons under conditions to produce a fat solvent containing absorbed portions of the distillate preferentially soluble in said solvent including sulphur compounds, and an overhead residual vapor of low sulphur content containing the major portion of said olefines, said residual vapor being substantially free from said solvent refluxing both the fat solvent and residual vapors, the former with vapors obtained by boiling the fat solvent, condensing the refluxed unabsorbed vapors, stripping the refluxed fat solvent to recover the absorbed portion of the distillate and subjecting the resulting recovered portion to a desulphurization treatment of sufficient intensity to remove the dissolved sulphur compounds, said solvent having a boiling temperature substantially higher than the A. S. T. M. end boiling point of said distillate, and being chemically inert under the conditions of said extraction.

2,285,697
SEWAGE TREATMENT METHOD AND APPARATUS
Augustus C. Durdin, III, Niles Center, Ill.
Application July 31, 1939, Serial No. 287,508
13 Claims. (Cl. 210—8)



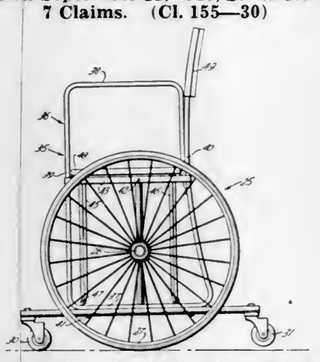
1. A clarifier for use with sewage purification apparatus including an aeration tank comprising a clarifier tank composed of substantially vertical walls and a bottom, an inlet therein for conducting sewage containing suspended solids from the aeration tank into the clarifier tank, an outlet opening in one wall of said clarifier tank, a vertically adjustable weir across said opening, a baffle separating said inlet from said outlet opening, means to regulate the height of said weir, and means to return the liquor flowing from said clarifier over said weir to the aeration tank.

2,285,698
COFFEE BOTTLE SUPPORTING PLATE AND HANDLE
Mike H. Emmer, Los Angeles, Calif.
Application August 24, 1940, Serial No. 354,050
1 Claim. (Cl. 126—215)



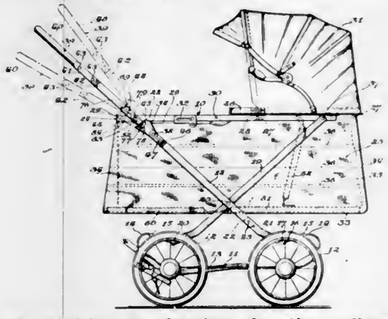
In a coffee bottle supporting device the combination of a plate having adjacent its marginal edge an upwardly projecting, inwardly inclined, circumferential wall, that portion of the plate encompassed by said wall being concave and provided with a central opening, the edge of which is shaped to provide alternately arranged, outwardly projecting notches, and radially disposed inwardly projecting ribs, the latter being provided on their under sides with recesses, rounded studs projecting upwardly from the upper face of the concave portion of the plate outwardly from the notches therein, and a handle provided in one end with an opening for the reception of the forward ends of said inwardly projecting ribs, said handle having a lug projecting rearwardly from the forward end of said opening for engagement in the recesses in the under faces of said ribs and having an inclined portion outwardly from said opening for engagement with the outer face of the inclined wall of the plate when the handle is applied thereto.

2,285,699
BALANCED INVALID WHEEL CHAIR
Herbert A. Everest and Harry C. Jennings, Los Angeles, Calif.
Application September 11, 1940, Serial No. 356,326
7 Claims. (Cl. 155—30)



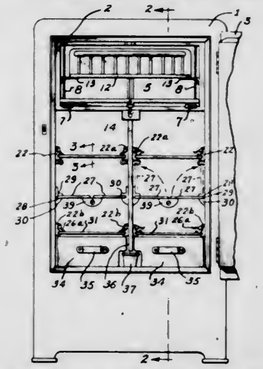
1. A wheel chair having a chair frame with a seat thereon, a wheel assembly frame including a bar with means securing said bar one on each side to the chair frame, a post extending upwardly from each bar, means securing each post to the chair frame, a pair of main wheels each having an axle mounted on a post, a caster secured to the forward and rearward portions of each bar, the wheel frame and the chair frame being adapted to pivot relative to the axles of the main wheels to bring the front or the rear casters in contact with the same ground surface engaged by the main wheels.

2,285,700
BABY CARRIAGE
Abraham G. Feldman, Chicago, Ill., assignor to Storkline Furniture Corporation, Chicago, Ill., a corporation of Illinois
Application August 20, 1940, Serial No. 353,393
2 Claims. (Cl. 280—36)



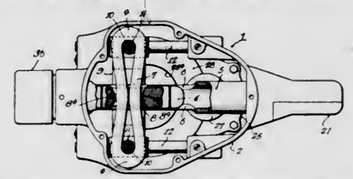
1. A latching mechanism for the collapsible framework of baby carriages, comprising a foldable framework including a handle having a pair of legs, a basket-supporting frame having its opposite sides pivotally secured to said handle legs below said basket, one of said legs being provided with a slider slidably mounted on said leg, said slider having a transversely extending latching element located in a slot in said leg, and a keeper carried by and forming an extension of one of said folding frame members and projecting toward said latching element, said keeper being formed with a plurality of recesses on the side toward said latching element, said recesses being separated by oppositely disposed latching shoulders, whereby said latching element may be secured in any one of said plurality of recesses to support the handle at any of a plurality of different elevations when the baby carriage has its folding framework extended, said keeper being formed on one side with a stop extension for preventing movement of said latching element beyond said extension, and said keeper being formed on its opposite side with a camming surface for camming said latching element upward when the framework is unfolded, said latching element being spring pressed whereby it automatically moves into the first latching position.

2,285,701
REFRIGERATOR
Charles R. D'Olive and Roland H. Money, Cincinnati, Ohio, assignors to The Crosley Corporation, Cincinnati, Ohio, a corporation of Ohio
Application August 2, 1939, Serial No. 288,002
7 Claims. (Cl. 62—116)



1. In a refrigerator having a primary refrigeration system including an evaporator, an insulated compartment in which said evaporator is located, a closed secondary system including a condenser arranged in thermal contact with the primary system evaporator, and an evaporator located in the main compartment within the refrigerator outside of said insulated compartment, said evaporator forming a vertically extending medial wall in said main compartment, and having a lower end extending beyond said main compartment and insulated therefrom, and moist compartments arranged alongside of said extension of said evaporator.

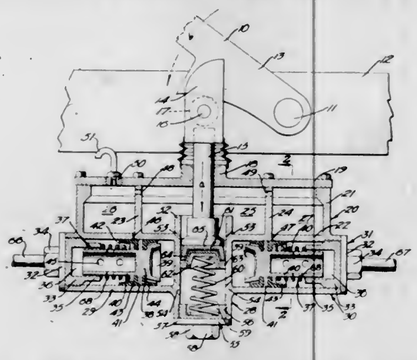
2,285,702
PORTABLE POWER HAMMER
Frithiof P. Forss, Aurora, Ill., assignor to Independent Pneumatic Tool Company, Chicago, Ill., a corporation of Delaware
Application July 18, 1940, Serial No. 346,096
6 Claims. (Cl. 125—33)



6. In a portable power driven hammering tool of the character described having a tool motor, an impact element, a reciprocable driving ele-

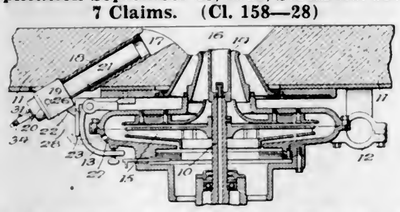
ment driven by the tool motor and having studs on opposite sides of the impact element, guides for the respective elements, and a solid, one-piece resilient rubber yoke in link-like form having arm portions having driving connection with the impact element and loop-shaped end portions engagable about the studs, said loop-shaped end portions gradually increasing in cross-sectional size radially about the studs from the arm portions with the maximum cross-sectional dimension intermediate the ends of the loop-shaped portions, said loop-shaped end portions having the openings therein for the studs larger in diameter than the studs to contact the studs for less than half their circumference in the normal position of the yoke between the studs, whereby clearance spaces are provided for the inner edges of said loop-shaped end portions at the studs to follow about the studs in the flexing of the yoke in the operation of the hammer and the heavier cross-section at the ends of the yoke will tend to resist abnormal stretching of the yoke at its loop-shaped end portions to prevent breakage of the yoke at the studs.

2,285,703
HYDRAULIC BRAKE MECHANISM
Walter L. Foster, Whittier, Calif.
Application December 26, 1939, Serial No. 310,966
3 Claims. (Cl. 60—54.5)



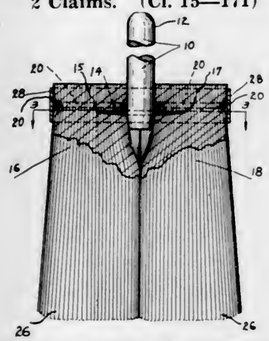
1. Operating mechanism for hydraulic brakes and the like, comprising a central vertical cylinder, a piston reciprocating therein, the upper end of said cylinder being open and the lower end of said cylinder being closed, a pair of horizontal cylinders axially aligned and disposed one on each side of the vertical cylinder and in the vertical plane thereof, the lowermost wall of said horizontal cylinders being above the plane of the lower end of the vertical cylinder, communicating ports through the walls of the vertical cylinder and at points adjacent to the inner ends and lowermost sides of the horizontal cylinders, pistons mounted to reciprocate within said horizontal cylinders, spring members tending to force said pistons to their retracted positions in the ends of the cylinders adjacent to the vertical piston, a central reservoir in constant communication with the vertical cylinder at a point below the upper limit of the up-stroke of the piston therein, and side reservoirs, one at each side of said central reservoir and in constant communication therewith, each of said reservoirs having a port in each lower wall communicating with the interior of one of the horizontal cylinders and at a point whereby communication between the cylinders and the side reservoirs will be established while the pistons are in their extreme positions, whereby liquid from the reservoirs may flow freely into the horizontal cylinders.

2,285,704
IGNITION ASSEMBLY
George D. Frank, York, Pa., assignor to York Oil Burner Co., Inc., York, Pa., a corporation of Delaware
Application September 18, 1940, Serial No. 357,319
7 Claims. (Cl. 158—28)



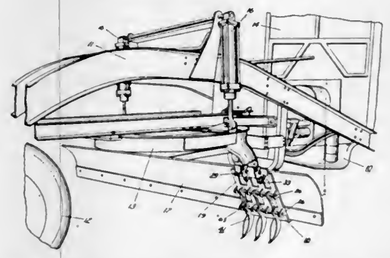
1. In ignition apparatus for blowing an igniting flame against a combustible mixture within a furnace combustion chamber, the combination comprising a furnace having a combustion chamber and a burner for supplying a combustible mixture thereto, a housing closed to the atmosphere outside of the furnace and supported adjacent the said burner, said housing communicating through an elongated passage with the combustion chamber; a gaseous fuel nozzle within the housing and having its discharge end remote from the combustion chamber end of the said passage, a spark electrode within said housing and having its sparking end located adjacent the discharge end of said gaseous fuel nozzle, and means for supplying air under pressure above atmospheric pressure to the said housing whereby at starting the ignited gaseous flame is blown through the elongated passage and is projected as a blow-torch flame against the combustible mixture within the combustion chamber.

2,285,705
RENEWABLE BROOM
Jonas Friedel, Omaha, Nebr.
Application July 28, 1941, Serial No. 404,335
2 Claims. (Cl. 15—171)



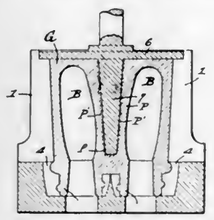
1. A broom comprising a conventional handle, two bunches of broom straws of elongated contour in plan, a wire disposed around an end of each bunch, the ends of said wires being twisted together for binding the straws of their respective bunches together, said bunches being oppositely disposed about one end of said handle, said wires adjacent said twists being arcuate in plan complemental to the cross sectional contour of said handle for fitting snugly against the latter, a pair of U-shaped straps disposed about each bunch adjacent said wires, said straps each having an integral hook disposed at each of their ends adjacent said handle, and a pair of substantially C-shaped clamps, the ends of said clamps being engaged with one hook of each strap for detachably securing said bunches to said handle.

2,285,706
ROAD SCARIFYING DEVICE
Roy Gaddis, Cedar Rapids, Iowa
Application February 24, 1940, Serial No. 320,573
10 Claims. (Cl. 262—8)



1. For use in connection with a grading device having a mold board, a scarifying device including a mounting plate, means for clamping same to the horizontal edges of the mold board, a plurality of lugs extending outwardly from the face of the mounting plate, said lugs having aligned holes therethrough, a mounting bar extending through the said holes, and a plurality of tooth members also having holes extending laterally therethrough, adapted to be received on the mounting rod.

2,285,707
METHOD OF MAKING MULTIPLE CONTAINERS
Charles B. Garwood, Linthicum Heights, and Walter R. Schlehr, Baltimore, Md., assignors to Carr-Lowrey Glass Co., Baltimore, Md.
Application April 9, 1941, Serial No. 387,758
8 Claims. (Cl. 49—80)

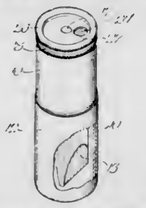


3. The method of producing a multiple compartment, one-piece container which includes the steps of producing a parison having separate cavities separated by a partition, then forming a recess in the partition with a chilling element, thereby to increase the viscosity of the partition to a degree greater than that of the walls of the body, subsequently expanding against the wall of a mold those portions of the parison of greatest fluidity, and thereafter collapsing the recessed partition and unifying opposed portions thereof by pressure from within the expanded portions of the parison.

2,285,708
CULTURE MEDIUM FOR THE GROWTH OF MICRO-ORGANISMS
John H. Glynn, Chicago, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application July 5, 1939, Serial No. 282,943
4 Claims. (Cl. 195—100)

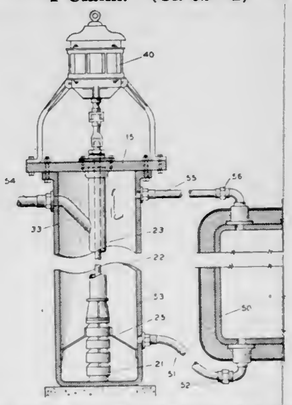
2. A culture medium for bacteria comprising a mixture obtained by the combined peptic and tryptic digestion of egg albumen, casein and blood fibrin, and from 0.00001 percent to 0.015 percent of boric acid.

2,285,709
COSMETIC MATCHING DEVICE
M Martin Gordon, Chicago, Ill.
Application December 26, 1939, Serial No. 310,994
2 Claims. (Cl. 35—59)



1. In a cosmetic and apparel matching device, a container for colored cosmetic or the like, a cylindrical color chart surrounding said container, said color chart including a plurality of individual colors, each in harmony with the color for the cosmetic to be received in said container, a cylindrical cover element surrounding said color chart, said cover element being rotatable relative to said color chart and having a single opening therein which may be registered with any single one of the colors of said color chart, so that such color may be isolated for individual view with respect to the other colors of said color chart.

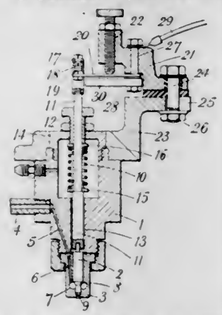
2,285,710
APPARATUS FOR WITHDRAWING LIQUIDS FROM CLOSED CONTAINERS
Frederick J. Harlow, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application June 27, 1938, Serial No. 216,148
1 Claim. (Cl. 62—1)



In apparatus for withdrawing a volatile liquid

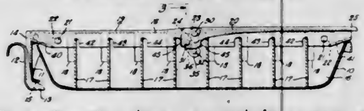
from a closed container, the combination comprising a closed receptacle; a conduit for placing the lower portion of the receptacle in communication with the lower portion of the container; a conduit for placing the upper portion of the receptacle in communication with the upper portion of the container; pumping means in the receptacle, said pumping means including a pump, a drive shaft operable from the exterior of the receptacle, a housing concentric with the drive shaft, and discharge conduit communicating with the housing and the exterior of the receptacle; and means external the receptacle for operating the pumping means.

2,285,711
PRESSURE SWITCH
Leslie Hartridge, Ponders End, England
Application May 31, 1939, Serial No. 276,714
In Great Britain June 3, 1938
3 Claims. (Cl. 200—81)



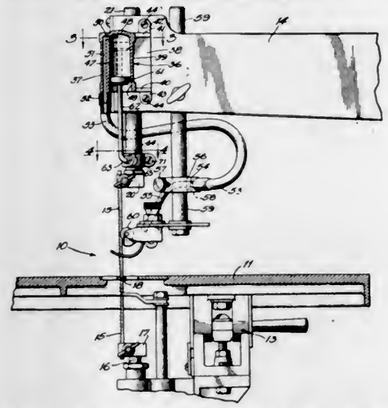
1. A switch mechanism for use in testing the phase angle of fuel pumps of Diesel engines of the type including an injector type valve, said mechanism including a housing in which the valve operates, a rigid rod bearing directly on the valve and extending through and above the housing, said rod being responsive to valve movement, a stirrup carried by the end of the rod above the housing, a contact carried by the stirrup, a spring plate secured to the housing laterally of the stirrup, a contact carried by the spring plate within the stirrup and underlying the contact carried by the stirrup, whereby the contact carried by the stirrup is lifted in the movement of the rod relative to the contact carried by the spring plate in breaking the connection, and means located beyond the stirrup, adjustable in the housing, and bearing on the spring plate to adjust said plate and the contact carried thereby relative to the contact carried by the stirrup.

2,285,712
FREEZING TRAY
Harvey D. Geyer and Frederick W. Sampson, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 12, 1938, Serial No. 207,437
14 Claims. (Cl. 62—108.5)



1. In a freezing tray, a container pan, and a partitioning grid within said pan, said grid comprising: a longitudinal partitioning wall, a series of cross walls extending from side to side of said grid and cooperating with said longitudinal wall to form ice block compartments, said cross walls being movable relative to said longitudinal wall, and force-multiplying means for moving some of said cross walls from their freezing position toward one end and some of said cross walls from their freezing position toward the opposite end of said grid to facilitate the removal of the frozen ice blocks from said grid.

2,285,713
JIG SAW
Theron L. Hedgpeth, Oak Park, Ill., assignor to Duro Metal Products Company, Chicago, Ill., a corporation of Illinois
Application June 28, 1940, Serial No. 342,870
2 Claims. (Cl. 143—157)



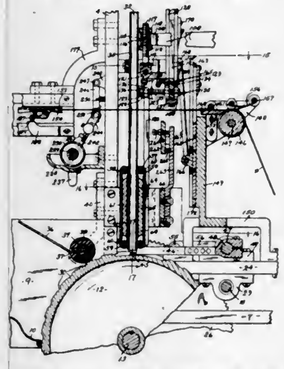
1. An air pump attachment for jig saws, adapted to effect its pumping stroke on the upward movement of the saw under the influence of a spring, comprising a metal member formed with a cylinder, said cylinder having its lower end open, and said cylinder having its lower end flared outwardly toward its opening over a substantial portion of the length of the cylinder, a conduit in said metal member communicating with the upper end of said cylinder, and having a fitting for receiving a hose, a hose leading from said conduit and engaging a nozzle member, said nozzle member having its nozzle opening downwardly directed toward the working area of the saw blade, and said nozzle member being supported by an adjustable collar adapted to be mounted on a saw guide supporting rod, a piston rod, and a piston carried by said rod, said piston rod having a reduced end portion, and a shoulder between said reduced portion, and the shank of said rod and said piston comprising a metal plate mounted against said shoulder on said reduced portion, said plate being substantially smaller than the bore in said cylinder, a cup leather having its body provided with a central opening receiving said reduced portion, said cup leather engaging said plate, and a second plate located inside said cup leather and engaging the top of said cup leather on said reduced portion, said reduced portion being riveted over to clamp said cup leather between said plates, and means carried by said connecting rod for securing the end of the connecting rod to a part movable with the saw blade whereby air is forced through said conduits on the up stroke of the blade and on the down stroke of the blade at the lower part of the cylinder, the cup leather being spaced from the wall of the cylinder for effecting a filling of the cylinder with air preliminary to a pumping stroke.

2,285,714
ADJUSTABLE BUCKLE
Fred Hirsh, New York, N. Y., assignor to Adjusta Company, a corporation of New York
Application August 7, 1941, Serial No. 405,813
1 Claim. (Cl. 24—199)



A buckle construction comprising side bars, spaced transverse bars connecting said side bars and slots therebetween, and two aligned end bars extending towards each other and providing a tape passageway therebetween, at least one of said transverse bars being depressed below the plane of the remaining buckle parts.

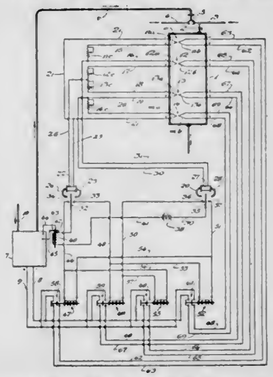
2,285,715
STICK WRAPPING MACHINE
Arthur C. Hopkins, Tupper Lake, N. Y., assignor to Oval Wood Dish Corporation, Tupper Lake, N. Y., a corporation of Delaware
Application June 23, 1939, Serial No. 280,831
13 Claims. (Cl. 93—93)



1. In a wrapping machine of the class described, a hopper, a bundle magazine adjacent the hopper, feed means for successively moving the articles from the hopper into the magazine, means associated with the magazine including a pair of endless belts arranged in opposed spaced relation to each other to receive the articles between them in stacked formation, separate means for moving the stack of articles through the magazine, and means cooperating with said separate means for applying a wrapper to said stack.

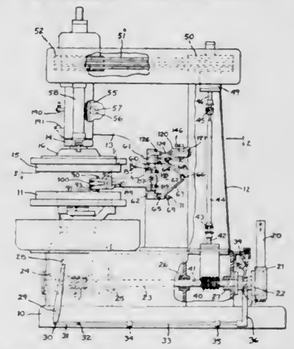
2,285,716
CONTROL MEANS FOR CATALYTIC CONVERTERS
Herbert A. Hulsberg, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application December 31, 1940, Serial No. 372,696
3 Claims. (Cl. 252—242)

3. In combination with a catalyst chamber adapted to contain a bed of catalyst and means for introducing an oxygen-containing gas to the catalyst chamber for reactivating the catalyst to control oxidation, a device for controlling the temperature of the catalyst bed during the period of reactivation which comprises, four pairs of thermocouples positioned in spaced relationship of said bed of catalyst, each pair of thermocouples comprising a primary couple and a secondary couple disposed adjacent each other so as to be subjected to substantially the same temperature, said primary couples being connected together in series to form a bridge, a pair of polarized relays connected between alternate primary couples, a double-throw switch actuated by each of said polarized relays, a source of electromotive force, four power relays, connections between said switches and said power relays, said polarized relays acting to actuate said switches



to selectively connect a predetermined power relay and the source of electromotive force in response to an unbalanced condition of the bridge, electrically actuated control means for controlling the passage of oxygen-containing gas through said gas-introducing means to said chamber, means connecting said secondary couples through said respective power relays to said control means, said connecting means being controlled by the said predetermined power relay to connect the hottest thermocouple to said electrically actuated means, whereby the flow of oxygen-containing gas to said chamber is reduced.

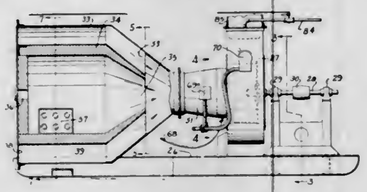
2,285,717
LAPPING MACHINE TRUING APPARATUS
Herbert S. Indge, Westboro, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application March 16, 1940, Serial No. 324,309
5 Claims. (Cl. 125—11)



5. In a lapping machine truing apparatus having a movable member, a pair of independent,

pivotally mounted arms, a pivot stud connecting one end of each of said arms with said member, independent adjusting devices between the other ends of said arms and said member, aligned opposed truing tools on said arms, said truing tools being located on said arms between the pivot stud and said adjusting devices, and a manually operable clamping device associated with said pivot stud for clamping said arms and truing tools in adjusted positions.

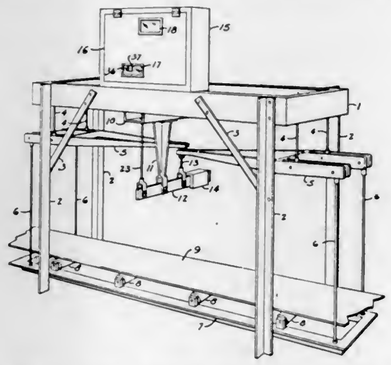
2,285,718
AIR HEATER
Charles C. Isaacson, El Campo, Tex.
Application August 15, 1939, Serial No. 290,213
1 Claim. (Cl. 263—19)



A heater comprising a fan casing, a tubular housing entering one side of the fan casing and enclosing a mixing chamber, an outer jacket whose outer end is cylindrical and whose inner end converges toward and merges into the outer end of the housing forming a Venturi passageway, a furnace lined with radiant material and located within, and spaced from, the jacket and shaped to conform to the shape of the jacket with its outer end approximately cylindrical and closed and its inner end converging toward but spaced from the mixing chamber and having an inner end opening directed toward the mixing chamber, the outer jacket having its outer end substantially open around the furnace, said jacket, furnace, housing and casing forming a unitary structure, a burner arranged in the outer end of the furnace to emit a flame substantially tangent to the inside wall of the furnace, means in the fan casing for creating an air current through said passageway around the furnace and through the mixing chamber to protect the walls of the furnace against sudden variations in temperature, said air current creating a suction in the furnace whereby the air passing inwardly through the passageway will be caused to follow a spiral course about the furnace and the flame will be caused to follow a spiral course around the furnace walls toward the furnace outlet, the passageway about the furnace, and the furnace outlet merging adjacent the outer end of the housing to cause a mixture of the air with the fuel and a reduction of the temperature below the ignition point.

2,285,719
WEIGHING DEVICE
Alan J. Jerome and Mark A. Weckerly, Toledo, Ohio, assignors to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application December 30, 1938, Serial No. 248,374
5 Claims. (Cl. 265—28)

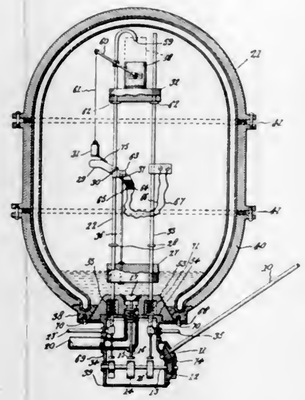
1. In a device of the class described, in combination, a conveyor belt, means for supporting a moving portion of said conveyor belt, load levers connected to said supporting means, a force direction reversing lever connected to said load levers, a load-offsetting pendulum connected to said force direction reversing lever, a depending arm fixed to said load-offsetting pendulum, a second depending arm having an abutment thereon, an adjusting screw connecting the first said depending arm to said second depending arm, a strip pivoted upon said second depending arm, a spring yieldingly holding said strip against said abutment, a flexible finger carried by said strip, a detent carried by said flexible finger, a synchronous motor, a cam carried by said synchronous motor and engageable with said detent through a part of each revolution of said cam, the degrees of revolution through which said cam engages said detent being dependent upon the position of said load-offsetting pendulum, a tilt-



able frame, said flexible finger tilting said tiltable frame when said detent is engaged by said cam, a permanent magnet carried by said tiltable frame, a mercury switch held open by said permanent magnet when said tiltable frame is not tilted by said resilient strip and automatically closing when said tiltable frame is tilted, an electric circuit controlled by said mercury switch, a totalizing counter, a counter operating self-synchronous motor, a clutch for connecting and disconnecting said counter operating self-synchronous motor to said totalizing counter, means energized by said electric circuit to cause said clutch to connect said counter operating self-synchronous motor to said totalizing counter when said mercury switch is closed.

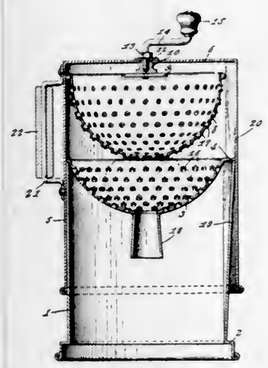
2,285,720
DEVICE FOR RETAINING HEAT IN MOTOR OIL
Septer S. Joy, Terre Haute, Ind., assignor of twenty-four per cent to Charles A. Crawford, seventeen and one-half per cent to Michael John Grogan, ten per cent to George Oltean, twenty-five per cent to Mary Frances Craft, and five per cent to Max Menestrina, all of Terre Haute, Ind.
Application May 19, 1941, Serial No. 394,186
12 Claims. (Cl. 184—104)

1. In combination with a crankcase of a motor containing a body of lubricating oil, of a device for retaining the heat in the motor oil during periods of non-operation of the motor comprising a closed and heat-insulated reservoir, a removable member insertable in the lower portion of the reservoir, an oil inlet valve in said member in communication with the interior of the reservoir and with said crankcase, an oil drain valve in said member in communication with the interior of the reservoir and with said crankcase, an air valve in said member in communication with the interior of the reservoir and with a source of air and vacuum supply, means biasing



said valves to closed position, and means for selectively opening said valves.

2,285,721
VEGETABLE GRATER
Morris Karp, Philadelphia, Pa.
Application April 10, 1941, Serial No. 387,956
3 Claims. (Cl. 146—177)



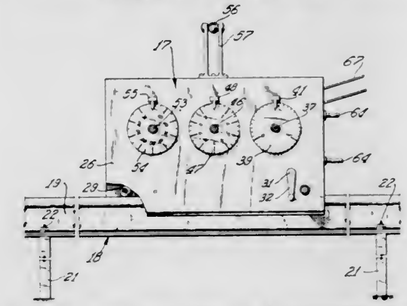
1. A grating device comprising a lower section including a hollow body, an upper section including a hollow body slidably mounted on the body of the lower section, a toothed substantially semispherical grating element fixed to the upper end of the body of the lower section for receiving material to be grated, a toothed substantially semispherical grating element mounted for rotation within the body of the upper section to overlie the fixed element, the teeth of the respective elements being directed toward each other for cooperative association, means for guiding the body of the upper section in its movement and to prevent rotation thereof relative to the lower section, handled means for rotating the rotary element, and means on the lower section and arranged in the path of the upper section to limit movement of the latter to prevent contact of the teeth of the rotary element with the teeth of the fixed element.

2,285,722
SLIDE RULE
Lyman M. Kells, Willis F. Kern, and James R. Bland, Annapolis, Md., assignors to Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey
Application April 7, 1938, Serial No. 200,578
20 Claims. (Cl. 235—70)



1. A slide rule comprising a relatively movable slide and body, said slide and body being graduated in identical logarithmic scales of the same modulus, said slide being also graduated in scale graduations to give readings of angles the values of the trigonometric functions of which can be found by reference to at least one of said logarithmic scales when the indices thereof are aligned, the indicia of the logarithmic scale graduations giving readings of the values of the direct functions of the angles having the same distinguishing characteristic as the indicia of the respective related scale graduations giving the readings of the respective angles and the indicia of the logarithmic scale graduations giving readings of the values of the co-functions of the angles having a different distinguishing characteristic from the distinguishing characteristic of the indicia of the respective related scale graduations giving the readings of the respective angles, whereby the related scales determining the value of any trigonometric function are indicated.

2,285,723
MEASURING AND INDICATING DEVICE
Joseph E. Kerrigan, Chicago, Ill.
Application May 18, 1940, Serial No. 335,874
3 Claims. (Cl. 33—46)

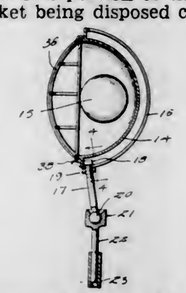


1. A yardage measuring and indicating device, comprising a track structure having toothlike members equally spaced longitudinally thereof, a frame mounted on said track structure for longitudinal movement, a device mounted on said frame for sighting at a fixed angle transversely of said track structure, an indicator supported by said frame, and gear means journaled in said frame and meshing with said members to operate said indicator, upon longitudinal movement of said frame, to continuously indicate the exact longitudinal position of said sighting device on said track structure.

2,285,724
ELECTRIC LAMP
David C. Kinney, Kendallville, Ind.
Application July 29, 1940, Serial No. 348,227
2 Claims. (Cl. 248—122)

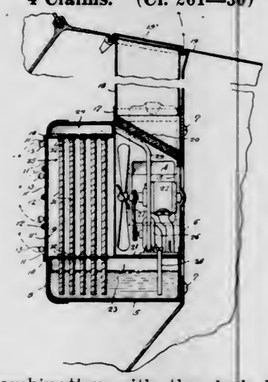
1. In a lamp having semi-cylindrical reflector,

a semi-circular bracket having its ends secured to the intermediate portion of the said reflector, the said bracket being disposed concentrically of



and spaced with relation to the convex surface of the reflector and having a longitudinal slot adapted to receive a slidable support element therein.

2,285,725
AIR CONDITIONER
George A. Kneedler, Vernon, Tex.
Application May 6, 1940, Serial No. 333,645
4 Claims. (Cl. 261—30)



1. In combination with the dash board of a motor vehicle, a casing secured to the dash board at the rear of the latter and having an air inlet opening in the front portion of the same, said casing being open at the rear, an air circulating fan mounted in the front portion of the casing and adapted to draw air inwardly through said air inlet and to discharge the same rearwardly from the casing, an air conditioning unit separate from the fan and its mounting and removably fitted in the rear portion of the casing and having air treating elements disposed in the path of the air from said fan, said unit including upper and lower tanks connected by rigid air-treating elements, and a cover removably fitted on the rear of the casing and removably retaining said air conditioning unit in the casing.

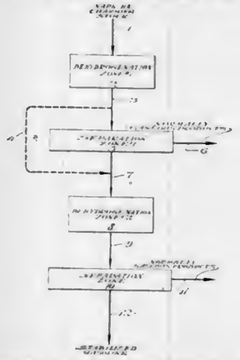
2,285,726
BAG SEALER
William R. Kohl, Glenview, Ill.
Application April 9, 1940, Serial No. 328,671
8 Claims. (Cl. 206—7)

1. A bag sealing device consisting of two duplicate members composed of fabric, each member having one side coated with an adhesive, each such member being formed of two equal sided parallelograms joined and scored to form four flexibly related equilateral triangles radiating from a central point, two of said triangles of one member being sealingly superposed in register upon two of the triangles of the other member



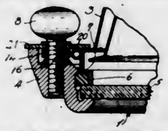
in such relation that the combination formed is a hexagonal figure, a free triangle edge of one member abutting a free edge of a triangle on the other member.

2,285,727
TREATMENT OF GASOLINE
Vasili I. Komarewsky, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application January 30, 1939, Serial No. 253,603
17 Claims. (Cl. 196—49)



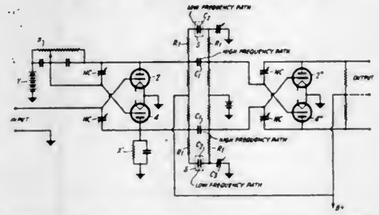
7. A process for the treatment of gasoline to increase the antiknock value thereof which comprises subjecting vapors of said gasoline in a first stage to contact at a temperature of the order of 250–350° C. with a catalyst containing a metal effective in dehydrogenating naphthenes, and in a second stage to contact at a temperature of the order of 450–750° C. with a catalyst containing a metal oxide effective in dehydrogenating and cyclicizing paraffins.

2,285,728
COMBINED LATCH AND CLAMP CONSTRUCTION
Arthur P. Leinen, Chicago, Ill., assignor to Benjamin Electric Mfg. Company, Des Plaines, Ill., a corporation of Illinois
Application March 7, 1940, Serial No. 322,749
7 Claims. (Cl. 292—212)



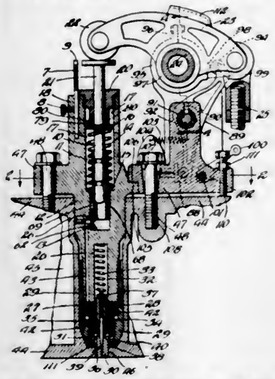
1. In a combined latch and clamp construction the combination with a rotatable pressure applying traction screw of a latch and clamp plate, a bushing having a collar portion and threaded on said pressure applying screw and a friction washer positioned between the collar portion of said bushing and said plate to provide a frictional connection therebetween, and a clamp member engaged by the threads of said screw and positioned to clamp a gasketed connection between itself and said plate.

2,285,729
AMPLIFIER
Nils E. Lindenblad, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application July 17, 1937, Serial No. 154,152, which is a division of application Serial No. 4,474, February 1, 1935. Divided and this application April 29, 1939, Serial No. 270,892
4 Claims. (Cl. 179—171)



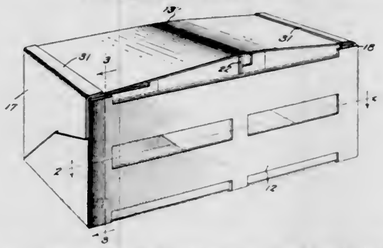
1. Means for impressing oscillations from a single ended stage on the control grids of a pair of thermionic tubes in push-pull fashion in like amounts comprising a conductor arranged to be connected to the output electrode of said single ended stage and to the control grid of one of said tubes, a resistance connected to the anode of said one tube and to ground by way of a source of potential, a connection between a movable point on said resistance and the control grid of the other tube of said push-pull stage and small condensers connected from said movable point to each end of said resistance, the capacitive impedance ratio between said condensers being proportioned to the ratio of resistances on each side of said movable point.

2,285,730
FUEL INJECTION PUMP
Charles A. Lindeman, Jr., Chicago, Ill.
Application December 16, 1940, Serial No. 370,289
14 Claims. (Cl. 103—41)



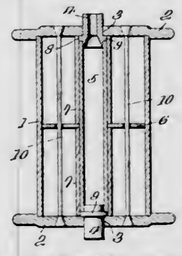
1. A fluid pump comprising a casing, a pump plunger movable therein, a high pressure delivery outlet for the pump, a spring pressed delivery valve for the outlet opened by high pressure fluid from the pump, a by-pass relief for the pump having a variable beginning and a variable ending and including a valve in a passage in the casing, and means for actuating the pump and operating the relief valve to control the discharge of high pressure fluid through the delivery valve.

2,285,731
CONTAINER
John S. Magley, Miami, Fla.
Application May 18, 1940, Serial No. 336,030
3 Claims. (Cl. 229—23)



1. In a container folded from a blank having side, bottom and end panels, said side panels having sight openings therein, a top panel, inserts to separate the container into compartments, at least one of said inserts being higher than the sides, one of said side panels having an opening extending along its line of juncture at the top panel to permit a portion of the top panel to rest on the top of the extended insert, positioning wings extending from said inserts, said wings having openings registering with the openings in the side panels, and flaps extending from the end panels adapted to be folded over and hold down the ends of the top panel in the plane of the top of the sides.

2,285,732
BOBBIN OR THE LIKE
George B. Markle, Jr., Hazleton, Pa.
Application August 16, 1939, Serial No. 290,478
6 Claims. (Cl. 242—118)

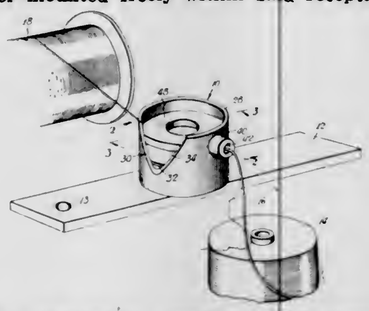


1. A bobbin or the like comprising a barrel having apertured heads arranged over its ends, collets disposed in the apertures of said heads provided with annular flanges, a core disposed in said barrel having annular recesses to receive the flanges of said collets and rods extending longitudinally through said barrel for connecting the said heads together over the ends of said barrel.

2,285,733
FLOATING FRICTION YARN TENSION
Edmour O. Martel, Jr., Ramsey, N. J., assignor to Feldlinka Silk Co., Garnerville, N. Y.
Application July 19, 1940, Serial No. 346,251
6 Claims. (Cl. 242—150)

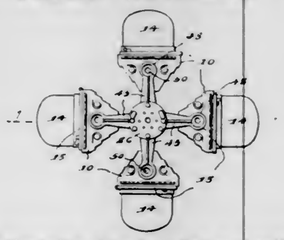
1. A tension device of the character described comprising a cup-like receptacle having an inlet

and outlet port extending through its side thereof in diametrically spaced relation, said ports having a non-metallic sleeve, a non-metallic disc member mounted freely within said receptacle,



and a non-metallic gravity weight member mounted freely within said receptacle and adapted to apply pressure on the yarn passing therethrough.

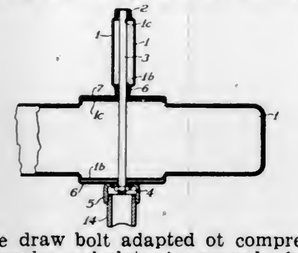
2,285,734
ADJUSTABLE SUPPORTING BRACKET FOR TRAFFIC SIGNALS
Kenneth W. Mackall, Cicero, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York
Application April 14, 1941, Serial No. 388,380
4 Claims. (Cl. 177—329)



1. An adjustable bracket for a traffic signal unit having a plurality of signal casings, a pair of plates, a plurality of arms extending radially of said plates, the inner end of said arms being arranged between the confronting sides of said plates and being adjustable circumferentially thereof, a single means operable to clamp said plates into engagement with said arms, and means for detachably securing the outer end of each arm to a traffic signal casing.

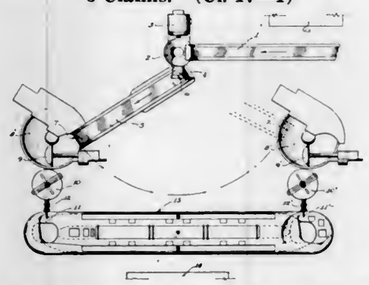
2,285,735
STREET SIGN
Pierre B. McBride, Louisville, Ky., assignor to Porcelain Metals Corporation, Louisville, Ky., a corporation of Kentucky
Application August 17, 1940, Serial No. 353,043
11 Claims. (Cl. 40—145)

2. A sign comprising, two flanged sign plates arranged back to back with corresponding edges of the flanges inter-engaging to form a substantially enclosed sign body, the portions of the flanges enclosing the horizontal edges of the sign body each having their corresponding central portions offset vertically to form a split boss projecting outwardly from the respective horizontal edges of the sign body; a retaining ferrule pressed over each boss for securing the sign plates togther; a draw bolt fixedly secured to one of said ferrules, and extending between the sign plates and outwardly through the other of said ferrules; and a locking element on the outer



end of the draw bolt adapted ot compress and lock the ferrules and plates in secured relation.

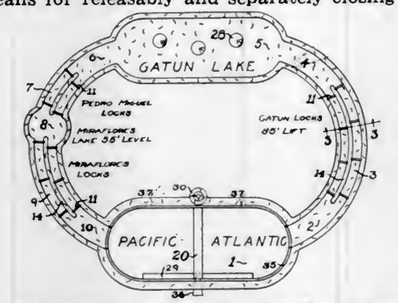
2,285,736
FRANKFURTER LAYOUT
Harry H. McKee, Henry W. Metzen, and Edward A. Schiewe, Chicago, Ill., assignors to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application April 10, 1940, Serial No. 328,836
3 Claims. (Cl. 17—1)



2. An apparatus for the production of sausage comprising a conveyor, a hasher for receiving meat from the conveyor, a second conveyor for receiving meat from the hasher, a plurality of cutters in spaced relationship for receiving meat from the second mentioned conveyor and for operating thereon, a plurality of sausage stuffers adapted to receive meat comminuted by the cutters, and a linking table positioned adjacent to the sausage stuffers and adapted to receive stuffed sausage casings therefrom, the second mentioned conveyor being pivotally mounted and adapted for pivotal movement to deliver meat from the hasher to the cutters.

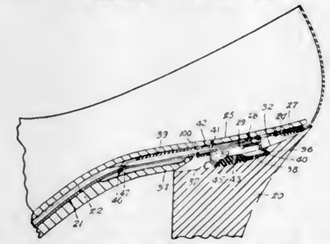
2,285,737
GAME CANAL DEVICE
Norman McLeod, Cleveland, Ohio
Application May 8, 1939, Serial No. 272,336
11 Claims. (Cl. 35—11)

1. An educational toy substantially defining an endless canal system, comprising in combination, a low level tank portion, a water course portion opening continuously out of said low level tank portion, a high level tank portion opening continuously out of said water course portion and at the end of said watercourse portion that is remote from said low level tank portion, a second water course portion opening continuously into both said low level tank portion and said high level tank portion remote from the opening of said first water course into said tank portions, a partition extending longitudinally of a part of one of said watercourse portions and transversely dividing said watercourse portion into a plurality of lesser channels, and a means for releasably and separately closing one



of said lesser channels to the flow of water therethru.

2,285,738
SHOE CONSTRUCTION
Frank A. Melchionna, Cincinnati, Ohio
Application November 12, 1938. Serial No. 239,954
15 Claims. (Cl. 36—42)



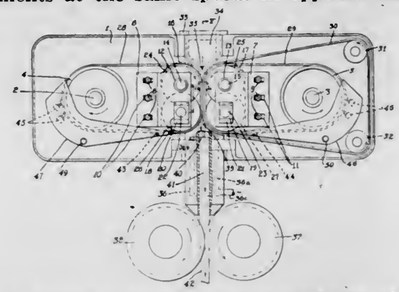
1. In a shoe structure, the combination of a sole and an insole secured together flatwise, and a cooperative rigid shank supporting the arch portion of the sole, said shank having a rear end overlying the heel seat of the insole, a cross-strap substantially spanning said heel seat and providing an eye, and a heel with a breast, said heel including an elongated tongue receivable in the eye and extending forwardly of the heel breast to slidably abut the rigid shank in the arch portion of the sole, thereby to strengthen the posterior arch supporting area of the shoe.

2,285,739
LUBRICANT
George E. Merkle, Glen Ridge, N. J., assignor to Lubriplate Corporation, New York, N. Y., a corporation of New York
No Drawing. Application May 9, 1940, Serial No. 334,165
2 Claims. (Cl. 252—25)

1. A lubricant of the class consisting of oils and greases containing finely-divided zinc sulphide, dispersed therein to an extent of not over 12% by weight, and characterized by its freedom from ingredients which would cause progressive abrasive action on the wearing surfaces to which it is applied.

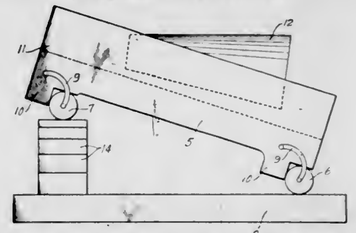
2,285,740
APPARATUS FOR PRODUCING SOLID AND TUBULAR PRODUCTS FROM UNDERCOOLED MOLTEN MATERIAL
Joseph M. Merle, Tarentum, Pa.
Application July 1, 1938, Serial No. 216,968
5 Claims. (Cl. 22—200.1)

1. In an apparatus for producing a solidified metal product from undercooled molten metal, a mold adapted to have a plastic undercooled metal in the form of a thin film free from contained gases impacted therein, to shape the undercooled metal in the desired form, means for discharging a quiescent consolidated stream of molten metal, and means interposed between said discharge means and mold for receiving said quiescent consolidated stream of molten metal and undercooling and shaping such stream into a thin metal film and impacting it into said mold in a plastic undercooled condition free from contained gases comprising a pair of rapidly moving smooth metal heat-absorbing elements laterally spaced in parallel relationship with respect to each other to form a downwardly moving upright passageway therebetween, means for driving said elements at the same speeds in opposite direc-



tions, greater than the speed of discharge of the metal stream, to cause the opposite walls of said passageway to travel in the same downward direction at a high velocity, and said passageway forming a metal accelerating and chilling surface and being of a length and thermal conductivity in relation to the thermal conductivity and thickness of the molten metal film, to remove under a predetermined length of contact of the molten metal film with said passageway a definite amount of heat from the molten film previous to the direction of the metal film into said mold, to cause said metal film to be impacted into said mold in a plastic undercooled condition, to provide instantaneous crystallization of the molded product from a regulated number of uniformly distributed nuclei, and to eliminate burning, corrosion and sticking of the mold.

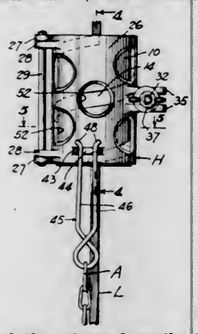
2,285,741
DEVICE FOR MEASURING CONICAL ARTICLES
Theodore A. Meyer, Indianapolis, Ind.
Application May 28, 1941, Serial No. 395,640
7 Claims. (Cl. 33—174)



1. In a cone measuring device, an elongate structure, supporting members for said structure having narrow contact surfaces to pivotally engage a plane surface, said contact surfaces being spaced longitudinally of said structure a

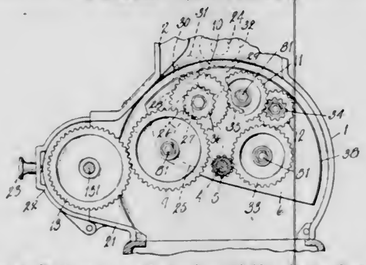
predetermined distance one from the other, said structure having in its upper portion a longitudinal V-shaped groove to receive the cone to be measured, the angle of said groove bearing such relation to the distance between the contact surfaces of said supporting members that when that end of said structure adjacent the smaller end of said cone is elevated with relation to the other end thereof to position the top of said cone in true parallelism with said plane surface the distance between the contact surface of the supporting member at the elevated end of said structure and said plane surface will be equal to the taper per foot of said cone.

2,285,742
LINE WIPING DEVICE
De Mont G. Miller, Los Angeles, Calif.
Application December 18, 1940, Serial No. 370,663
8 Claims. (Cl. 15—210)



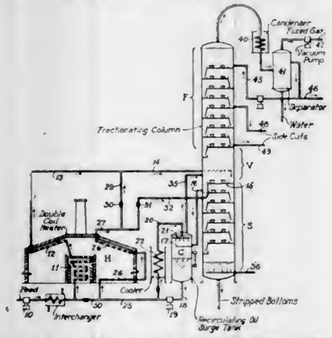
1. A device of the class described comprising: a body of yieldable material having convoluted walls defining a continuous helical passage through which a line can be pulled for wiping by the walls of the passage; means by which the body can be anchored against rotation; means by which the body can be maintained in a constricted position against the tendency of a line when pulled through the passage, to expand the body; and means by which the last means can be adjusted to reduce the size of said passage to compensate for wearing away of the passage by the line, whereby to restore the line wiping action of the passage.

2,285,743
MILLING MACHINE
Henry E. Musselman, Kalamazoo, Mich., assignor to Atlas Press Company, Kalamazoo, Mich., a corporation of Michigan
Application March 26, 1941, Serial No. 385,252
1 Claim. (Cl. 74—354)



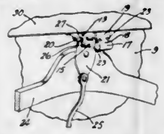
In a change-speed device of the type described, a housing, a gear carrier rotatably mounted in said housing having a plurality of double change-speed gears of different diameter thereon, the pitch line of one gear of each double gear being internally tangent to a circle concentric with the axis of said gear carrier, one gear of each double gear being in mesh with one of the gears of the next adjacent double gear whereby said gears may be rotated simultaneously, a gear rotatably mounted on an axis concentric with the axis of said carrier and having gear means connecting it in driving relationship with one gear of one of said double gears, and a gear mount having a journal thereon adapted to removably receive gears of different diameter adapted to be brought into selective mesh with one gear of each double gear by rotation of said gear carrier, the pitch line of the gear on said mount being externally tangent to said circle in the meshing relation of the gears, said mount being adjustable radially of said carrier to enable a gear thereon to be removed and replaced by a further gear of different diameter.

2,285,744
METHOD FOR COALESCING FOAMY OIL
Edward G. Ragatz, Los Angeles, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Original application January 4, 1936, Serial No. 57,560. Divided and this application October 24, 1938, Serial No. 236,662
4 Claims. (Cl. 252—321)



1. A process for coalescing hot foamy oil withdrawn from a vaporizer comprising forming the body of said foamy oil into a thin layer of increased area and contacting said thin layer of hot foamy oil with a spray of cool oil.

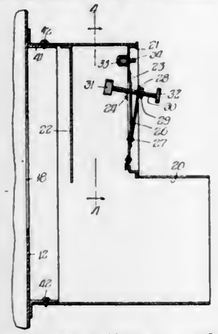
2,285,745
HANGER SUPPORT AND HANGER
Julius Ritter, Jr., Racine, Wis., assignor to Hartmann Trunk Company, Racine, Wis., a corporation of Wisconsin
Application April 11, 1941, Serial No. 388,117
4 Claims. (Cl. 312—176)



1. In a housing, a bracket secured to a wall thereof, said bracket having a flat bar spaced from and parallel to said housing wall and a closed end merging into an offset spaced from the plane of said bar, said bar, closed end and offset having a relatively wide wall and a reduced

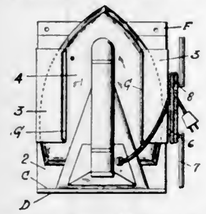
wall in the offset extending into the wide wall, and a hanger detachably cooperable with said bracket and normally supported by and hanging freely from said bracket bar, said hanger having a pair of ears at right angles to the plane of the hanger proper with a slot between adjacent end portions of the ears, there being a slot in the hanger proper communicating with the slot between the ears, the slot between the ears receiving the reduced wall portion of the bracket offset in certain positions of the hanger and the slot in the hanger proper receiving the wide portions of the bracket.

2,285,746
CONSTRUCTION FOR STOVES
Rolland C. Sabins, Wisconsin Rapids, Wis.
Original application February 15, 1939, Serial No. 256,448. Divided and this application April 1, 1940, Serial No. 327,163
4 Claims. (Cl. 126—58)



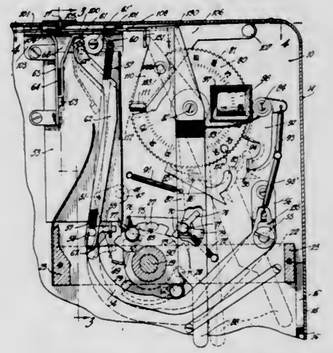
1. In a stove construction, a combustion chamber, a wall of the chamber having an opening therein for the discharge of products of combustion, a control chamber communicating with the combustion chamber through the opening, a discharge passage leading from the wall of the control chamber opposite to the opening and offset downwardly relative to the opening, and a damper-controlled opening in the control chamber wall opposite to the opening to the combustion chamber and offset vertically above said combustion chamber opening.

2,285,747
FLATIRON HOLDER
Alton P. Smith, Wichita, Kans., assignor of one-half to Peter T. Cantrell, Wichita, Kans.
Application April 24, 1941, Serial No. 390,097
1 Claim. (Cl. 248—117.1)



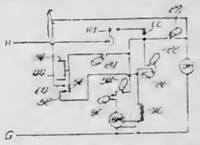
In a flatiron holder, of the class described, a plate vertically disposed and having a portion from its lower extremity a spaced distance upward bent at a right angle to form a shelf, another plate vertically disposed and having a right angle bend at its upper extremity to space said plates apart and to secure the plates together at their upper extremities, the right angle bent portion adjacent its outer extremity having another right angle bend upward to lie on first said plate and being welded together and apertured as vertical hanging means for the holder, last said plate at its lower extremity having a right angle bent portion to rest on the shelf and extending therearound at its outer extremity as securing means for the plate to the shelf whereby a two ply shelf is formed for a flatiron seating thereon, a pair of flanges carried by the last said plate near the vertical center thereof, said flanges being arced toward each other to retain a flatiron therebetween as seated on the shelf, and a rack removably carried by one of the flanges, all as and for the purpose specified.

2,285,748
COIN CONTROLLED ATTACHMENT
Joseph W. Srodulski, Chicago, Ill.
Application September 20, 1937, Serial No. 164,661
6 Claims. (Cl. 194—48)



2. In combination, a movable operating element, releasable latch means normally preventing effective movement of said operating element but permitting limited idle stroke movement thereof, coin testing means operable to release said latch means upon deposit of a proper coin therein, a counting device arranged to count the effective operations of said operating element, means actuated by said operating element when the same moves in idle stroke movement to operate said testing means, and means actuated by said operating element when the same is moved responsive to release of said latch means for operating said counting device.

2,285,749
FLOW CONTROL MECHANISM
William W. Stuart, Des Moines, Iowa
Application September 18, 1940, Serial No. 357,337
11 Claims. (Cl. 236—1)



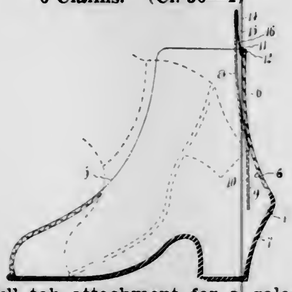
7. In a control system for use with a heating system having a burner, a smoke pipe and a cross damper in the pipe, means to move the damper from approximately closed position to wide open position and beyond, and means operative when the damper is approximately wide

open or beyond for adjusting the damper during burner operation to maintain a predetermined draft in the smoke pipe.

2,285,750
PROCESS OF PURIFYING WATER
Robert C. Swain, Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application July 31, 1940, Serial No. 348,821
5 Claims. (Cl. 210—24)

1. A process which comprises contacting water containing ionic impurities with an active ion exchange material, said exchange material including a reversibly reactive ion exchange component which has substantial water solubility but which is chemically bound with an insolubilized by an aminotriazine-aldehyde condensation product.

2,285,751
PULL TAB ATTACHMENT FOR GALOSHES
Hisaho Tamaki, Toronto, Ontario, Canada
Application January 5, 1942, Serial No. 425,599
In Canada February 26, 1941
6 Claims. (Cl. 36—1)



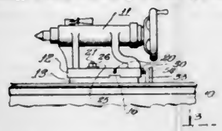
1. A pull tab attachment for a galosh, comprising a strip of substantially pliant material applied to the interior of the galosh at the back wall portion thereof and arranged for vertical movement, said strip having a smooth inner face for sliding against said wall and an outer friction face for engaging a shoe-heel.

2,285,752
ANTICORROSIVE
Paul R. Van Ess, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application November 18, 1940, Serial No. 366,148
7 Claims. (Cl. 252—52)

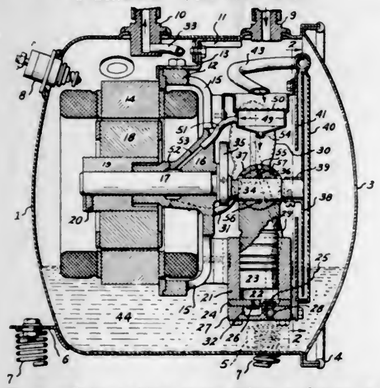
1. A non-corrosive lubricating oil composition comprising dissolved a small amount of a substance selected from the group consisting of di-alpha naphthyl ether and phenyl alpha naphthyl ether.

2,285,753
ADJUSTABLE TAIL STOCK
Erick Moen, Chicago, Ill.
Application December 21, 1939, Serial No. 310,449
2 Claims. (Cl. 82—31)

2. An attachment for a tail stock which is laterally adjustable on a base, comprising a gear rack carried by said tail stock, a gear rotatably carried by said base in mesh with said rack, a fixed dial on said base, a rotatable indicator carried by said base for cooperation with said dial, and a rotation multiplying gear train carried by said base and connecting said gear to said indicator, whereby movement of said tail stock on said base is multiplied by said indicator.

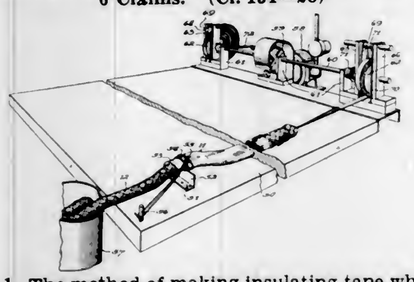


2,285,754
REFRIGERATION MECHANISM
Roland H. Money, Cincinnati, Ohio, assignor to The Crosley Corporation, Cincinnati, Ohio, a corporation of Ohio
Application February 1, 1939, Serial No. 254,065
6 Claims. (Cl. 230—58)



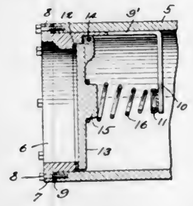
1. In a refrigerating apparatus a dome, a motor and compressor in said dome, a rotating disc, a cover for a portion of said disc, said cover having parts substantially conforming to but interspaced from the periphery and opposite side portions of said disc, a body of lubricant in said dome, said disc extending into said lubricant whereby upon rotation of said disc lubricant is forced into said cover under pressure, and means for delivering lubricant from said cover to parts of said mechanism to be lubricated.

2,285,755
METHOD OF MAKING INSULATING TAPE
Carl Mosier and John L. Mohun, Jr., Chicago, Ill., assignors to Union Asbestos & Rubber Company, a corporation of Illinois
Application November 1, 1938, Serial No. 238,204
6 Claims. (Cl. 154—28)



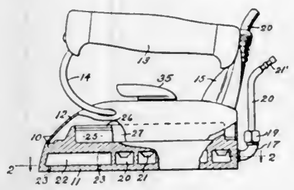
1. The method of making insulating tape which comprises holding a tubular fabric sheath of insulating material, assembling a plurality of large, loose, soft rovings of insulating material in overlapping relation to form a filler for said sheath, with reinforcing ropes extending longitudinally of said filler, and drawing said filler into said sheath to form the tape.

2,285,756
SEWER TRAP
Peter J. Schweighart, Sandusky, Ohio
Application March 7, 1941, Serial No. 382,240
2 Claims. (Cl. 182—16)



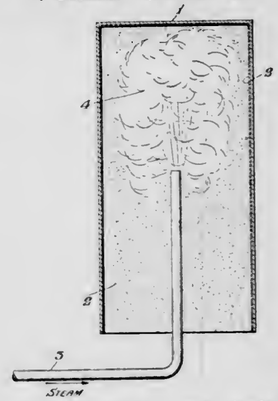
1. A sewer trap comprising a circular body portion adapted to be fitted in a pipe, a shoulder formed on the inner edge of the body portion providing a circular valve seat disposed in a true vertical plane, a closure, means for hingedly connecting the closure to the body portion, at the upper edge of the closure, an arm extending inwardly from the body portion and having a right angled end terminating on a line drawn centrally through the pipe in which the body portion is positioned, and a coiled spring disposed between the right angled end of the arm and closure, said spring adapted to normally urge the closure to its seat.

2,285,757
STEAM ELECTRIC FLATIRON
Norman Smith, Syracuse, N. Y.
Application November 28, 1939, Serial No. 306,528
1 Claim. (Cl. 38—77)



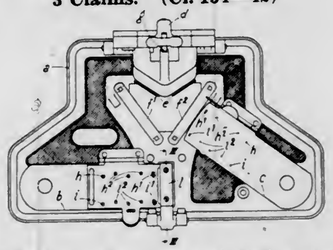
A base portion for a steam electric flat iron provided with an electric heating means, comprising a single casting including a plurality of steam chambers disposed in substantially parallel rows having small connecting passages between the upper ends of adjacent chambers in a row, and adjacent rows being similarly connected at alternate ends to form an S like series of expansion chambers progressing through said base portion to retard the flow of steam therethrough, an aperture for introducing steam into one of said chambers adjacent the heel of said base portion, a chamber located within the toe of said base portion extending a substantial distance toward the heel thereof and communicating with the last of said series of chambers, and a plurality of apertures arranged in said toe chamber and piercing the sole of said base portion to permit steam to pass therethrough.

2,285,758
PROCESS OF CURING ZEIN
Oswald C. H. Sturken, Closter, N. J., assignor, by mesne assignments, to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey
Application April 18, 1938, Serial No. 202,675
7 Claims. (Cl. 18—48)



1. Process of treating a zein body to give it resistance to water and other liquids which consists in bringing said body containing a zein solvent into contact with steam.

2,285,759
FILM TRIMMING AND GLUING APPARATUS
Alexander Suter, Teufenthal, Switzerland, assignor to the firm Injecta Aktiengesellschaft, Teufenthal, Aargau, Switzerland
Application December 31, 1937, Serial No. 182,925
In Switzerland January 9, 1937
3 Claims. (Cl. 154—42)

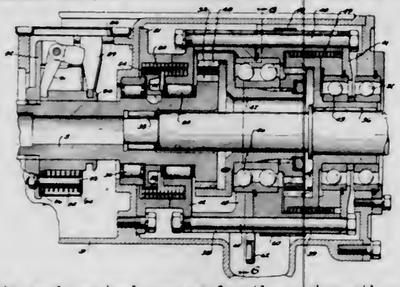


1. In a film trimming and gluing apparatus of the type having film clamping members and film cutting means, the improvement which comprises oppositely disposed parallel rows of stationary pins arranged on said clamping members, the pins of one row being spaced midway between the pins of the second row, the pins being so constructed and arranged that said first row of pins will engage the inner end wall of perforations in the film while the pins in the second row engage the outer end wall of adjacent perforations in said film.

2,285,760
CHANGE SPEED GEARING WITH AUTOMATIC OVERDRIVE
Earl A. Thompson, Birmingham, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 6, 1933, Serial No. 659,752
80 Claims. (Cl. 74—472)

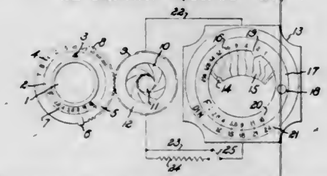
1. In combination with a source of power and

an element to be driven, of power transmitting means including a manually controlled speed change unit, an automatically controlled speed change unit associated with the input side of the manual unit, a connecting shaft joined to both



units and control means for the automatic unit which includes a connection to the power source speed control and a speed responsive device operative at the speed of said shaft to control the speed ratio of said automatic unit.

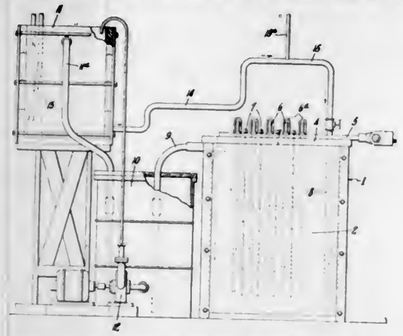
2,285,761
PHOTOGRAPHIC EXPOSURE APPARATUS
Hans Ferdinand Tönnies, Hamburg-Grossflottbek, Germany
Application August 30, 1938, Serial No. 227,579
In Germany October 1, 1937
21 Claims. (Cl. 95—10)



1. Exposure determining apparatus comprising photoelectric means, a measuring instrument having a pair of relatively adjustable indicating members and a pointer displaceable in accordance with current flow through said instrument, circuit connections between said photoelectric means and said instrument, means for adjusting the sensitivity of said instrument with respect to illumination at the photoelectric means to a higher or alternatively a lower value, and means calibrated in values of one of the exposure factors of shutter timing and diaphragm opening to modulate current flow from said photoelectric means to said instrument; one of said indicating members having for cooperation with said instrument pointer a pair of indicia comprising a mark and a scale graduated in values of the exposure factor in which said current modulating means is calibrated, and said indicating members have cooperating scales graduated respectively in the second of said exposure factors and in a third exposure factor for setting the indicia-bearing indicating member in accordance with selected values of the exposure factors in which said cooperating scales are graduated.

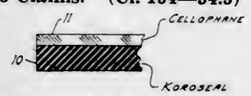
2,285,762
ELECTRODEPOSITION OF COPPER POWDER
Sidney B. Tuwiner, Kew Gardens, and William H. Osborn, New York, N. Y., assignors to Phelps Dodge Corporation, New York, N. Y., a corporation of New York
Application February 4, 1938, Serial No. 188,770
12 Claims. (Cl. 204—10)

1. A method for preparing metallic copper in fine flake form comprising electrodepositing copper, from an aqueous acid solution of a cop-



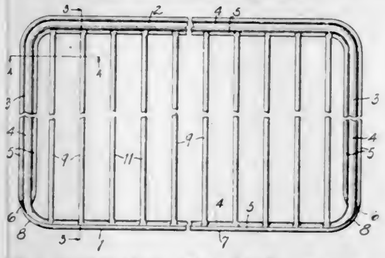
per compound, upon a cathode carrying a composition containing an oxidized fatty acid radical having a least one hydroxyl group.

2,285,763
PRINTER'S BLANKET
Gustav A. Vasel, Philadelphia, Pa.
Application December 16, 1939, Serial No. 309,555
3 Claims. (Cl. 154—54.5)



1. A printer's blanket comprising an underlayer consisting of a resilient material selected from the group consisting of polymerized vinyl halides and chloroprene, and a thin super-coat in autogenous relationship thereto consisting of a smooth, fiberless, hard-surfaced, waterproof cellulosic sheet.

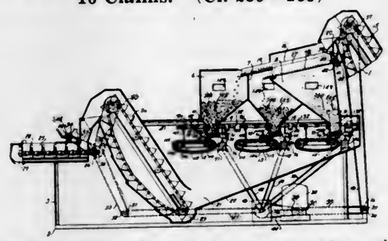
2,285,764
SHELF OR RACK FOR REFRIGERATORS, OVENS, AND THE LIKE
Leonard A. Young, Detroit, Mich.
Application September 19, 1940, Serial No. 357,412
15 Claims. (Cl. 211—153)



5. The combination of a border frame comprising integral front, rear and end members substantially flat on one side, the opposite side being of curved section and having a shoulder, the rear and end members of the frame being disposed with the flat sides thereof facing downwardly and the front member being disposed with the flat side thereof facing forwardly, there being quarter twists at the front ends of the end members, the flat face of the front member being extended around the front corners of the frame and merged into said quarter twists, and grid wires disposed with their front ends upon

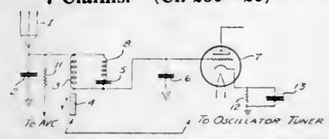
and welded to the rounded portion of the front frame member and with their rear ends disposed upon and welded to the shoulder of the rear frame member.

2,285,765
AGGREGATE MIXING MACHINE
Frank L. Carswell, Kansas City, Mo.
Application April 17, 1941, Serial No. 388,942
16 Claims. (Cl. 259—165)



1. A machine for mixing aggregates with a cementing material including, means for separately conveying the respective aggregates in continuous streams, a gravimetric feeder associated with each conveying means, means controlling said conveying means responsive to actuation of the gravimetric feeders to discharge said aggregates by weight thereof, a mixer, means discharging the weighed streams of aggregates to the mixer, and a measuring pump arranged to discharge the cementing material into the mixer.

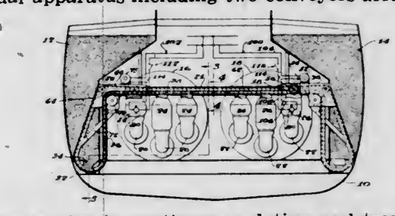
2,285,766
IMAGE WAVE SUPPRESSOR
Fulton Cutting, New York, N. Y., assignor of one-half to Colonial Radio Corporation, Buffalo, N. Y., and one-half to The F. W. Sickles Company, Springfield, Mass.
Application May 4, 1940, Serial No. 333,327
7 Claims. (Cl. 250—20)



1. In a superheterodyne receiver, in combination, inductance and capacity elements associated together to form a resonant circuit, tunable as a whole by variation of said inductance to select desired signal frequencies, and a circuit in shunt with said inductance, said shunt circuit comprising inductance and capacity, the circuit formed by said inductance and the elements in shunt therewith being parallel tuned to the image of the desired signal frequency.

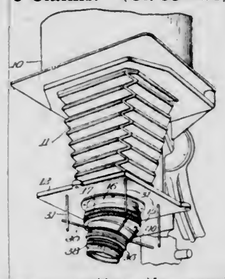
2,285,767
STOKER FEEDING APPARATUS
Alfred De Los Sinden, Aurora, Ill., assignor to Redler Conveyor Company, Quincy, Mass., a corporation of Massachusetts
Application April 3, 1940, Serial No. 327,668
9 Claims. (Cl. 114—0.5)

2. For use in a ship having bunkers disposed upon both sides of the ship and a plurality of stoker hoppers arranged transversely of the ship between said bunkers, apparatus for supplying flowable solid fuel to said stoker hoppers comprising dual conveying apparatus having portions extending within and adapted to withdraw fuel from either of said bunkers and to distribute the fuel thus withdrawn to all of the stokers, said dual apparatus including two conveyers arranged



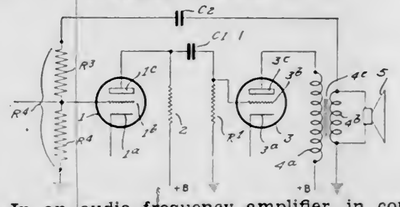
side by side in contiguous relation and traveling in opposite directions, each conveyer being arranged to supply fuel to each of said hoppers.

2,285,768
LENS MOUNTING
Albert Drucker, Chicago, Ill., assignor to Burke & James, Inc., Chicago, Ill., a corporation of Illinois
Application October 11, 1940, Serial No. 360,816
8 Claims. (Cl. 88—24)



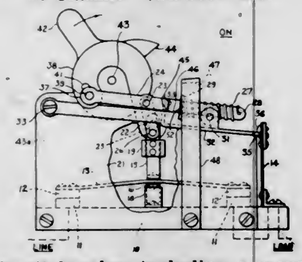
1. In a lens mounting the combination of a lens support, a lens carrying member, a ball and socket joint between said lens and said lens support, adapting said lens for universal adjustment with respect to said support, resilient friction creating means housed within the mounting and operating with a uniform pressure upon a zone encompassing one of the elements of said joint, and means whereby the tension of said friction creating means may be varied at will.

2,285,769
SOUND REPRODUCING SYSTEM
Harry L. Forster, Buffalo, N. Y., assignor to Colonial Radio Corporation, Buffalo, N. Y.
Application May 9, 1941, Serial No. 392,694
8 Claims. (Cl. 179—1)



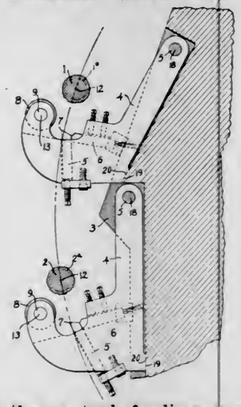
1. In an audio frequency amplifier, in combination, a first amplifier tube, a second amplifier tube, a non-resonant resistance-capacity network coupling the plate circuit of the first tube to the grid circuit of the second tube, and a resistance capacity network coupling the output circuit of said second tube to the grid circuit of the first tube, the values of resistance and capacity in said networks being such that the reactance of the capacity in each network is equal to the resistance in said network at a frequency within the audible range.

2,285,770
CIRCUIT BREAKER
William H. Frank and Joseph A. Messing, Detroit, Mich., assignors to Bulldog Electric Products Company, Detroit, Mich., a corporation of West Virginia
Continuation of application Serial No. 59,631, January 17, 1936. This application September 14, 1939, Serial No. 294,808
17 Claims. (Cl. 200—116)



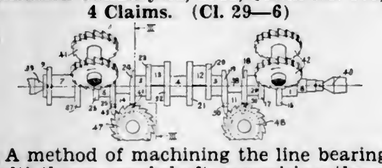
1. A circuit breaker including a movable contact, a stationary contact, a movable contact operating arm, a handle, and a latch for said arm, and a single spring for biasing the movable contact towards the stationary contact when the parts are in circuit closed position, and for biasing the movable contact away from the stationary contact when the arm is released by the latch, the movable contact and the arm being connected directly, at a point remote from the connection of the arm to the handle, so that arm and contact move together on all breaker operations, with said latch comprising the sole overload control for the breaker, the spring being connected to the contact operating arm free and independently of the handle, and also being operatively connected to the breaker frame, through a pawl which is held directly by the latch and through which the latch holds the arm.

2,285,771
TOOL HOLDER FOR LATHES
William F. Groene, Cincinnati, Ohio, assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware
Application October 18, 1940, Serial No. 361,748
7 Claims. (Cl. 82—35)



6. In a lathe, a tool feeding carrier, a tool holder, floating mounting means for said tool holder on said carrier, a cutting tool fixed in said tool holder, means on said tool holder for contacting a work piece in said lathe to limit the floating movement of said tool holder, means for feeding said tool radially of the axis of rotation of said work piece, and means whereby said floating mounting means effects floating movement of the cutting edge of said tool in a plane lying in a 45 degree angular relationship to the direction of radial feeding movement of the cutting edge of said tool.

2,285,772
METHOD OF MACHINING CRANKSHAFTS
William F. Groene and Harold J. Siekmann, Cincinnati, Ohio, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Ohio
Application January 21, 1941, Serial No. 375,310
4 Claims. (Cl. 29—6)



1. A method of machining the line bearings of a multi-throw crankshaft comprising the steps of: (*a*) drilling center holes in the ends of the rough crankshaft forging to establish the main axis of rotation for said crankshaft; (*b*) supporting said crankshaft by means of said center holes while milling locating areas on webs of said crankshaft in a predetermined accurately located position relative to said axis; (*c*) chucking and rotating said crankshaft by means of said locating areas and center holes and applying cutting tools to the crankshaft to machine the flange and stub ends and the two intermediate line bearings each side of the center line bearing of said crankshaft in a definite relation to its main axis of rotation as established by said centers; (*d*) chucking and rotating said crankshaft by means of said two machined intermediate line bearings and said center holes so as to hold said crankshaft on its proper axis of rotation against any sprung condition resulting from said previous machining operation and machining the remainder of the center line bearing, flange, and stub ends of said crankshaft; (*e*) supporting and rotating said crankshaft by said center holes while in its sprung position caused by said previous machining operations and grinding said center line bearing of said crankshaft to form a bearing surface in proper concentric relationship to the axis of rotation of said shaft on said centers in this sprung condition; and (*f*) chucking and rotating said crankshaft by means of said ground line bearing and center holes while applying cutting tools to remachine all of the remaining line bearing portions of said crankshaft simultaneously.

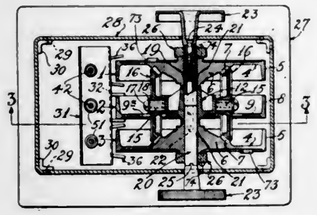
2,285,773
CHEMICAL SUBSTANCE
Benjamin R. Harris, Chicago, Ill., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
No Drawing. Application August 7, 1940, Serial No. 351,767
12 Claims. (Cl. 260—400)

1. A chemical substance of the following formula

$$(R{-}O{-})_z X\left(-O-\overset{\overset{O}{\|}}{\underset{\underset{O}{\|}}{S}}-O-\right)Y,$$

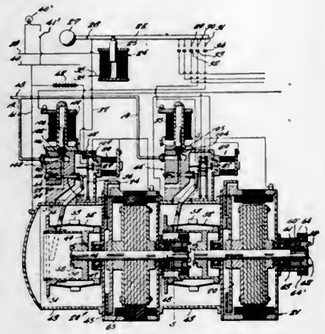
in which R represents an acyl radical of a carboxylic acid, X is a residue of a polyhydroxy carboxylic acid which links together the lipophile radical and the sulphate group, Y is a cation, and *z*, *w* and *v* are small whole numbers, at least one.

2,285,774
CALCULATING MACHINE
Edgar E. Horner, Pittsburgh, Pa.
Application September 21, 1940, Serial No. 357,720
9 Claims. (Cl. 235—79.5)



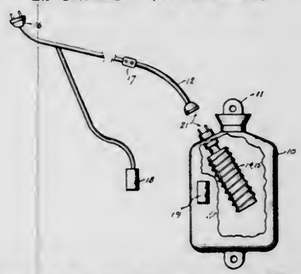
1. In a calculating machine, three coaxially disposed rotatable parallel drums; graduations thereon; differential gear means to connect said drums for rotation in differential space relation; a turn-knob directly connected to each outer drum to manually rotate same independently of the other outer drum; a depressible spring controlled lock-key for each drum, said lock-keys locking in depressed position to lock the corresponding drums in selected position, and means actuated by depressing any unlocked key and adapted thereby to release any locked drum.

2,285,775
CURRENT GENERATING MEANS
Walter D. Keele, Ryan, Okla.
Application August 6, 1941, Serial No. 405,707
5 Claims. (Cl. 290—4)



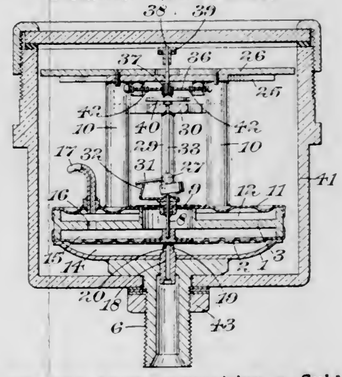
1. An alternating current generating system comprising at least two units comprising alternators having their field coils connected in parallel, said alternators having their armature shafts arranged coaxially, governor operated normally disconnected coupling means for the adjacent ends of said shafts, said coupling means comprising electro-magnet attracting means arranged to engage said coupling means in relation to the action of the governor whereby to synchronize the rotation of the shafts, air turbine means operatively connected to the shaft of each unit, and compressed air supply means for said turbine means.

2,285,776
HOT WATER BOTTLE
Frank Maccoy, Detroit, Mich.
Application September 12, 1941, Serial No. 410,559
12 Claims. (Cl. 219—38)



1. A hot water bottle having a filling spout, heating coils within the bottle, means passing through the bottle at a point remote from said spout for connecting one of said coils to an electric line and arranged with a manual switch outside the bottle for controlling said coil, means also passing through the bottle at a point remote from said spout for connecting the other of said coils to said electric line in a manner independent of said switch, and a thermostatic switch disposed against the outside surface of said bottle for automatically controlling said second coil in response to the temperature of the outside surface of the bottle.

2,285,777
PRESSURE GAUGE
Frederick Mack, London, England, assignor to K. D. G. Instruments, Limited, London, England, a British company
Application July 23, 1940, Serial No. 347,063
In Great Britain February 16, 1940
8 Claims. (Cl. 73—110)



1. A pressure gauge comprising a fluid-pressure chamber, a flexible operating diaphragm dividing the chamber into two separate compartments one of which may be put into air-tight communication with the source of pressure to be measured and the other of which is hermetically sealed, an instrument movement for indicating movements of the operating diaphragm and external to the fluid-pressure chamber, a mechanical coupling between the operating diaphragm and the instrument movement passing through an aperture in a wall of the fluid-pressure chamber to convey, by its movements, the movements of the operating diaphragm to the instrument movement, said aper-

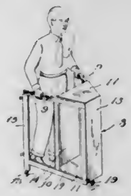
tured wall including a secondary flexible diaphragm attached to the mechanical coupling for movement therewith by flexing of the diaphragm and forming an airtight sealed closure for the aperture aforesaid and means for counteracting the effect on the accuracy of the gauge of changes in atmospheric pressure on the secondary diaphragm, comprising a third flexible diaphragm forming part of said apertured wall and on which the instrument movement is mounted, the third diaphragm being exposed to the same changes in atmospheric pressure as is the sealing diaphragm that the pressure effects on the movement carrying diaphragm and the sealing diaphragm substantially counterbalance each other in their effect on the indications of the instrument movement.

2,285,778

COMBINED WALKER AND SERVING TABLE

Victor T. Milward, Santa Barbara, Calif.

Application May 6, 1941, Serial No. 392,167
3 Claims. (Cl. 155—22)



3. A combined walker and serving table of the character described comprising, an elongated front plate, a pair of bars secured to each end of the said plate, the said bars extending rearwardly in diverging relation from the sides of the said plate, a pair of transverse tapered plate secured to the top and bottom of the respective pairs of bars and extending rearwardly from the front plate to points intermediate the ends of the said bars, a pair of vertical bars secured to and extending between each side pair of the diverging bars and extending below the lowermost bar at each side, a glider attached to the bottom end of each of the said vertical bars and depending therefrom for movement along the support surface, a caster secured to the forward end portion of the lower transverse plate and depending therefrom to form a front rotatable support member, a reinforcing plate attached to the intermediate portions of the said diverging bars parallel with and rearwardly of the front plate, and a plurality of strips secured in parallel longitudinally extending arrangement to the opposed sides of the rearwardly projecting portion of each of the diverging bars.

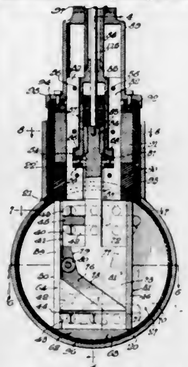
2,285,779

PIPE LINE STOPPER

Frank H. Mueller, Walter J. Bowan, and Basil A. Mason, Decatur, Ill., assignors to Mueller Co., Decatur, Ill., a corporation of Illinois

Application July 15, 1940, Serial No. 345,648
12 Claims. (Cl. 138—94)

1. A pipe line stopper insertable through a side wall opening in a main, said stopper comprising a rubber bag, a core in said bag, means carried by the core projectible to distend opposite sides of the bag curvilinearly into contact with the inner walls of the main, the closed end of the bag being externally curved so as to conform to and seal against the inner wall of the main opposite the opening, and means for peripherally expanding



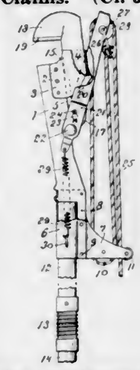
the bag adjacent its other end to seal off the main opening.

2,285,780

PRUNING IMPLEMENT

George W. Newman, Kansas City, Mo.

Application July 12, 1941, Serial No. 402,101
10 Claims. (Cl. 30—245)



1. In a pruning implement, a fixed jaw comprising a longitudinal shank and a channel member having its flanges fastened to opposite sides of said shank at one end thereof, the bridge of said channel member being next to and spaced from one longitudinal edge of said shank, said flanges at one side of said edge having end portions projecting beyond said end of said shank, and adapted to bear against one side of an object to be cut, a movable jaw reciprocative in said channel member and having a cutting edge portion alined with and movable toward and from said shank end in a plane between and parallel with said projecting end portions and adapted to bear against the opposite side of said object, said movable jaw in its cutting movement sliding against said bridge, and means for reciprocating said movable jaw.

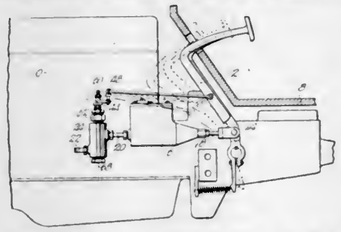
2,285,781

AUTOMOBILE BRAKE CONTROL

Audie Ross Patrick, Kansas City, Mo.

Application July 30, 1941, Serial No. 404,593
7 Claims. (Cl. 188—152)

1. In an automobile provided with a fluid braking system and a clutch pedal, control means cooperating with the braking system to prevent release of the brakes from the applied position, said control means comprising a body having a passage therethrough for the fluid of the braking system; a valve seat formed in the body within the passage; a valve member in the passage; a spring to yieldably hold the member on said seat to prevent the flow of fluid in a direction to release the brakes; and a control shaft provided with a shoulder extending longitudinally of the



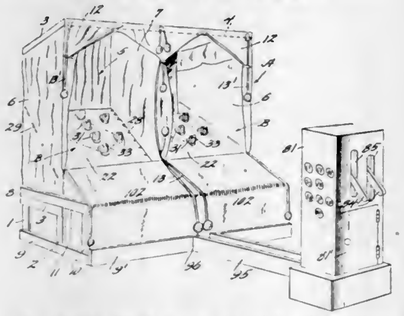
passage, said valve member being in the form of a cylinder in longitudinal alignment with the control shaft, said body having a cam face over which said shoulder rides as the control shaft is rotated, said cam face being formed to shift the said shaft longitudinally toward the valve member a distance sufficient to move the valve member from the valve seat as the shaft is rotated in one direction about its axis.

2,285,782

INDOOR BASEBALL GAME

William M. Pharr, Atlanta, Ga.

Application May 8, 1940, Serial No. 334,057
9 Claims. (Cl. 273—103)



1. A game apparatus of the character described, comprising a movably mounted resiliently anchored fabric playing field, a frame structure supporting said field, a plurality of normally erect knockdown field pieces carried by said frame extending through said fabric and predeterminedly arranged with respect to said field, said field pieces adapted to be knocked down by balls thrown on said field, means for automatically returning the thrown balls to the player's station, and means connected to the respective field pieces permitting any one to be knocked down without regard to or interference with any of the others and for resetting said field pieces in erect position, said means including a manually operable rotatable means.

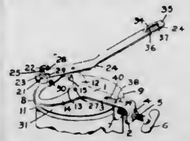
2,285,783

CAN OPENER

Gustaf L. Reenstierna, Union City, N. J., assignor of one-half to Remo Aiazzone, Union City, N. J.

Application May 11, 1940, Serial No. 334,484
12 Claims. (Cl. 30—17)

1. In a can opener, a clamp member and means thereon detachably securing said member to a can and a lever and cutter secured thereto, said lever swingingly mounted to said mem-



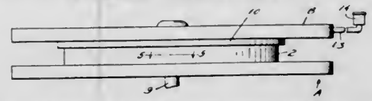
ber to swing on a center outside the periphery of the top of the can to cut a lip in the top of a can.

2,285,784

SELF-LUBRICATING CENTER PLATE

John H. Scott, Gary, Ind., assignor of one-third to Homer E. Blair and one-third to John D. Rossman, both of Gary, Ind.

Application October 19, 1940, Serial No. 361,956
1 Claim. (Cl. 308—137)



In a bearing of the class described, an under plate having a centrally arranged boss extending upwardly from its top face and an annular flange extending upwardly from its top face and forming with the boss a wide annular space, a top plate having a wide annular part on its under face fitting in said space for rotary movement and said wide annular part forming a recess for receiving the boss, a pin passing through the center of the top plate and through the boss for pivotally connecting the plates together, an annular flange at the upper end of the boss forming a central recess in the top of the boss and the central part of the under face of the top plate having a groove therein for receiving the flange, with that part of the under face of the top plate surrounded by the groove fitting in the recess in the top of the boss, said wide annular part having a lubricant receiving chamber therein, and the lower part of said wide annular part having ports in its lower part for leading the lubricant from the chamber to the bottom of said wide annular part.

2,285,785

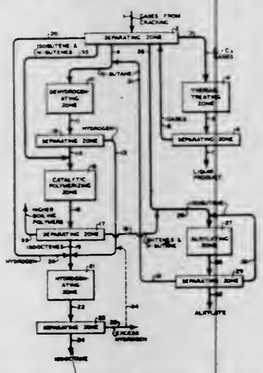
TREATMENT OF HYDROCARBONS

Jean Delattre Seguy, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application July 13, 1940, Serial No. 345,328
2 Claims. (Cl. 196—10)

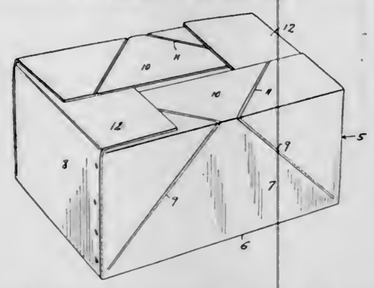
1. A process for producing more valuable products from a gaseous hydrocarbon mixture, which comprises separating said mixture into at least three fractions, an isobutane fraction, a normal butane fraction and a fraction comprising iso and normal butenes, subjecting said normal butane fraction to dehydrogenation to form butene and hydrogen, separating butene and unconverted normal butane from said hydrogen, combining said butene and unconverted normal butane with the iso and normal butenes and subjecting the mixture to polymerization under conditions of temperature, pressure and contact time regulated to polymerize substantially all the isobutene and only a portion of the normal butenes to isooctenes leaving a quantity of normal butene unconverted which is approximately equivalent to the volume of isobutane in said mixture, sep-

arating said isooctenes from the normal butane and unconverted butenes, combining said unconverted butenes and the normal butane with said isobutane fraction and subjecting the mixture to



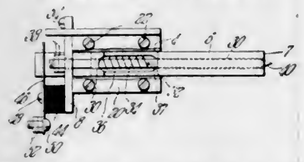
alkylation to form a substantially saturated gasoline from the butene and isobutane, separating the uneacted normal butane from said gasoline and returning the former to the dehydrogenation step.

2,285,786
BOX
Lawrence L. Vera, Santa Cruz, Calif.
Application March 28, 1940, Serial No. 326,526
1 Claim. (Cl. 229—41)



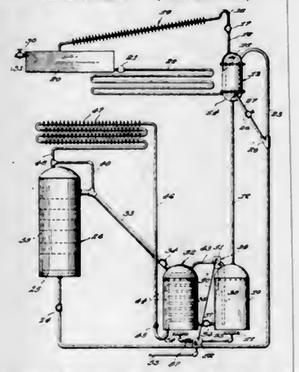
In a foldable box, a bottom wall, side and end walls connected to the bottom wall for hinging movement with respect to said bottom wall, end and side closure flaps coactive to provide a cover connected to said end and side walls for hinging movement relative thereto, said side walls having scores extending from the lower corners of said side walls in converging relation and terminating in spaced relation at the upper edges of said side walls, said side flaps having scores extending in converging relation from the free longitudinal edges of said side flaps and connecting with the scores of the side walls, the angles formed at the points of juncture of the scores of the side flaps with the scores of said side walls being acute, said end and side flaps being foldable to parallel the end and side walls and within the latter-named walls with the scores of the side flaps paralleling the scores of the side walls, said end walls being movable toward the bottom wall and in the direction of each other causing said side walls and side flaps to fold on the scores and move inwardly and downwardly over the bottom wall and between the latter wall and said end walls when the latter reach a position of substantially paralleling the bottom wall.

2,285,787
LOOM APPARATUS
Ellsworth F. Wood, Somers, and Mitchell Gautreau, Somersville, Conn.
Application July 28, 1941, Serial No. 404,276
2 Claims. (Cl. 139—273)



1. A feeler device comprising in combination, a support having a slide guideway, a slide reciprocable in the guideway having an outer end provided with an end surface adapted to be engaged by yarn on a bobbin whereby the slide may be moved inwardly of the support thereby, a transverse member on the inner end of the slide engageable with a part of the support to limit outward movements of the slide relative to the support, said slide and transverse member provided with longitudinal bores, a pilot slidable in said bores having an outer pointed end for projecting beyond the end surface of the slide, means on the inner end of said pilot engageable with the transverse member to limit outward movements of the pilot relative to the slide, a contact insulated from and fixed to the slide having a part disposed at the rear of the pilot to be engaged thereby, means to urge the pilot outwardly of the slide, separate means to urge the slide outwardly of the support, said means including a compression spring around said pilot disposed in a recess provided in said slide with opposite ends between an end of the recess and a part provided on said pilot, and said separate means including a tension spring having opposite ends secured to a part provided on said support and a part provided on said slide that operates in a slot provided on the support.

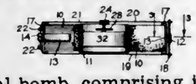
2,285,788
REFRIGERATING APPARATUS
Lewis Green Woodson, Birmingham, Ala.
Application August 2, 1940, Serial No. 349,779
4 Claims. (Cl. 62—5)



1. In a refrigerating apparatus of the intermittent absorption type, a generator, means for heating said generator, an absorber, a closed tank intermediate said generator and said absorber, a pipe having a one-way valve therein connecting said absorber to said intermediate tank to permit flow of strong liquid to said intermediate tank,

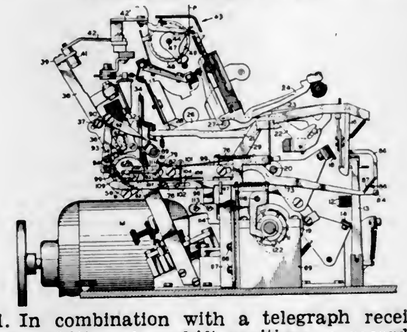
a conduit extending from said generator into heat exchange relationship with the strong liquid in said intermediate tank, means responsive to a predetermined maximum temperature of the liquid in said generator to render inactive said generator heating means and to permit flow of weak liquid from said generator through said conduit to thereby gradually elevate the temperature and consequent pressure of the strong liquid in said intermediate tank, means for conducting weak liquid from said conduit to said absorber, and a second pipe having a one-way valve therein connecting said intermediate tank with said generator to permit flow of strong liquid to said generator upon decrease of pressure therein.

2,285,789
AIRPLANE TRAP
Ace W. Woolley, Longmont, Colo.
Application March 1, 1940, Serial No. 321,699
3 Claims. (Cl. 89—1)



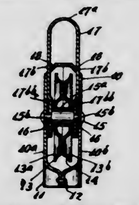
1. An aerial bomb, comprising in combination, a resilient wire formed into a hollow coil, means attached to the coil for holding the wire in coiled position, said means comprising a resilient band encircling the coil, the ends of the band having cooperating latch elements, the band being biased to open position, means carried by the coil for holding the latch elements in operative engagement, means comprising a time responsive device positioned in the opening in the coil and operatively connected with the latch for normally retaining the latch in operative position, means for retaining the time responsive device inoperative, and means for releasing the timing device and for determining the time that will elapse between its release and the time the latch is released.

2,285,790
WEB FEEDING MECHANISM
Alton K. Allen, Brooklyn, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application February 24, 1939, Serial No. 258,147
21 Claims. (Cl. 178—42)



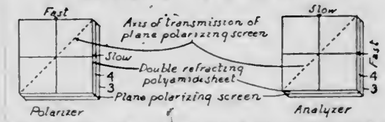
1. In combination with a telegraph receiver having shift and unshift positions, a recording paper, a line feed operating lever for advancing said paper through said receiver a predetermined amount on each operation thereof, said line feed operating lever normally being operative once in response to each received line feed signal and means operative in response to a predetermined signal with said telegraph receiver in one of said shift positions when preceded by at least one operation of said line feed operating lever in response to a line feed signal for conditioning said line feed operating lever for a plurality of successive operations whereby the number of operations thereof performed in response to line feed signals and in response to said predetermined signal invariably equals a given number.

2,285,791
PULLEY DEVICE
Henry Auslander, Brooklyn, N. Y.
Application February 1, 1941, Serial No. 376,938
1 Claim. (Cl. 254—192)



In a pulley device of the type described having a sheet metal housing enclosing the pulley of said device, said pulley being provided with a hub member having integrally formed and radially outwardly extending bearing flanges adapted to engage a portion of each side wall of said pulley, said pulley being mounted upon a pintle extending across the sides of said housing, said pintle being provided with end portions projecting beyond said flanges, said end portions being substantially reduced in diameter, a strip of metal having a central bent portion forming a handle portion for said device having arm portions continuing from said bent portion and extending through openings in said housing and into the interior thereof, said arm portions being in surface to surface contact with the inner side walls of said housing for at least a portion of their length and having bearing openings through which said reduced end portions of said pintle pass, said arms being formed with offset portions at a point substantially adjacent the hub of said pulley, said offset portions being adapted to bear against the outer surfaces of said bearing flanges to maintain said pulley in a central position with respect to said pintle and said housing.

2,285,792
FRACTIONAL WAVE FILMS AND POLARIZING SYSTEMS CONTAINING THEM
Emerson Dudley Bailey, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application December 13, 1939, Serial No. 309,079
11 Claims. (Cl. 88—65)

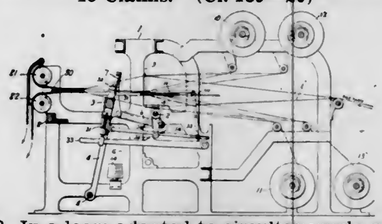


1. A fractional wave retardation element comprising a doubly refracting synthetic linear superpolymer film of practically absolute uniformity in retardation which has been permanently extended under stress in the solid state until the product of its double refraction and its thickness in cm. is equal to

$$\frac{X}{8}$$

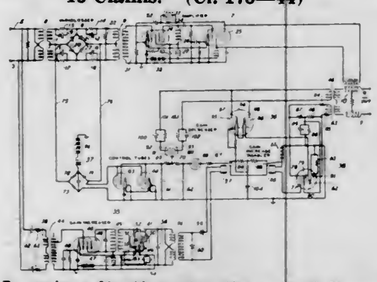
wave length, where X is an integer for light of a predetermined wave length expressed in cm.

2,285,793
LOOM
Joseph L. Baker, Langhorne Manor, Pa.
Application May 21, 1941, Serial No. 394,409
15 Claims. (Cl. 139—20)



13. In a loom adapted to simultaneously weave at different levels two fabrics containing separate wefts, the combination with a weft yarn supply at one side of the loom for the upper fabric and a weft yarn supply at the other side of the loom for the lower fabric, of two shuttles each adapted in its throw in one direction to engage the weft yarn from one supply, pull a double pick thereof across the loom at one level and then release the yarn and in its throw in the opposite direction to engage the weft yarn from the other yarn supply, pull a double pick thereof across the loom at the other level and then release the yarn, and means to throw the shuttles simultaneously across the loom at different levels in opposite directions.

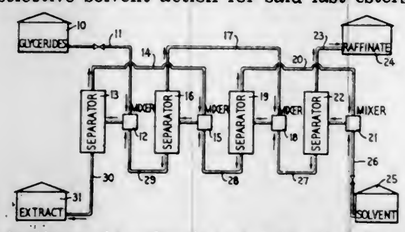
2,285,794
CONTROL CIRCUITS
Harold L. Barney, Leonia, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 18, 1940, Serial No. 370,600
13 Claims. (Cl. 178—44)



1. In gain adjusting circuits, a variolosser for controlling the gain on a signal circuit, means comprising a forward acting fast gain increasing circuit for governing said variolosser under control of syllabic impulses to raise the gain on the signal circuit at a relatively fast rate, a backward acting gain increase disabler circuit for preventing control of said variolosser by the fast gain increaser circuit when the signals on the signal circuit beyond the variolosser are above a predetermined value, and means controlled by the gain increase disabler circuit for controlling said variolosser to effect a relatively slow gain increase on the signal line.

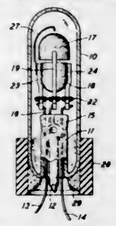
2,285,795
SOLVENT EXTRACTION OF GLYCERIDES
Augustus H. Batchelder, Berkeley, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
Application August 2, 1939, Serial No. 287,977
15 Claims. (Cl. 260—428)

1. A process of separating a mixture of esters selected from the group consisting of vegetable and animal oils into a relatively slower drying raffinate fraction, as indicated by a lower iodine number, and a relatively faster drying extract fraction, as indicated by a higher iodine number, which comprises selectively extracting relatively higher iodine number esters from said mixture with an organic selective solvent having a selective solvent action for said last esters by



contacting said solvent and said oil below the temperature of complete miscibility of the solvent and the oil and above the melting point of the remaining undissolved oil fraction whereby two liquid phases are formed, one comprising the selective solvent with the higher iodine number esters dissolved therein and the other comprising the lower iodine number liquid phase raffinate, and recovering the higher iodine number faster drying esters from said selective solvent.

2,285,796
GASEOUS DISCHARGE DEVICE
George M. Beardow, Purchase, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 19, 1939, Serial No. 300,151
12 Claims. (Cl. 176—122)



8. A glow discharge device comprising a vessel containing a gaseous filling, upper and lower dome-shaped electrodes having their bases in juxtaposition, means for supporting said electrodes in said vessel, and a wire probe attached to the periphery of said lower electrode and extending along the outer surface of said upper electrode, the end thereof being adjacent the longitudinal axis of said upper electrode.

2,285,797
RESINOUS MATERIALS
August Bellefontaine and Hanns Bernard, Krefeld-Uerdingen, and Albert Sieberg, Krefeld-Bockum, Germany
No Drawing. Application March 11, 1939, Serial No. 261,350. In Germany March 14, 1938
20 Claims. (Cl. 260—23)

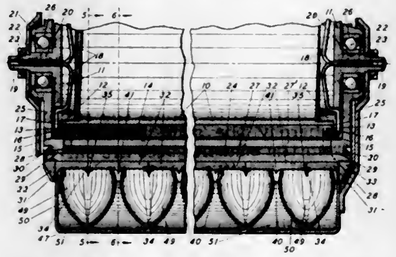
1. Process which comprises heating material selected from the group consisting of a drying oil, an oil-compatible natural resin and an oil-compatible synthetic resin in admixture with material selected from the group consisting of a polyhydric polynuclear phenol in which at least one hydrogen atom of each of at least two different hydroxyaryl radicles thereof is replaced by a radicle selected from the group consisting of an allyl radicle and a crotyl radicle, and of a soluble and fusible polymerisation product of such a phenol.

2,285,798
ADJUSTABLE INDUCTANCE DEVICE
Fritz Bergtold, Munich, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application December 27, 1940, Serial No. 371,880
In Germany October 22, 1938
3 Claims. (Cl. 171—242)



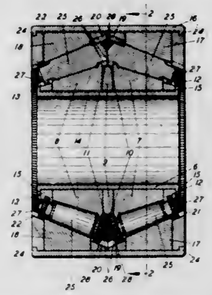
1. In a variable high frequency inductance device adapted to be used as a tuning means for a high frequency oscillatory circuit providing substantially constant selectivity over a range of frequencies, an inductance coil, an adjustable member for varying the inductance of said coil, said member being traversed by magnetic flux originating in the coil, a substantially tubular structure for guiding said flux through said member, said tubular structure being composed of material having high electrical conductivity and having at least one slot formed therein and extending substantially in the longitudinal direction of the magnetic flux, the tubular structure being formed so that its two ends face each other and form a gap for receiving the adjustable member, and a ferro-magnetic core for said coil mounted within said tubular structure and substantially conforming to the shape thereof, said core being adapted to provide sufficiently high losses so that the ratio of inductance and resistance of said coil is maintained substantially constant over said tuning range.

2,285,799
HIGH VELOCITY BLOWER
Frank Ellison Best, Indianapolis, Ind.
Application February 6, 1940, Serial No. 317,580
10 Claims. (Cl. 230—125)



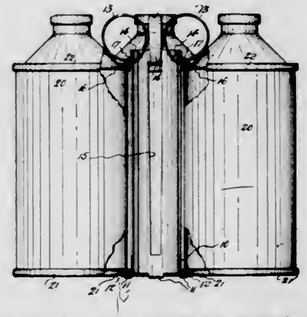
1. In a blower, a driven cylindrical rotor, circular rows of peripherally projecting transversely curved air impeller blades transversely spaced apart on said rotor, and circular housing means enclosing said rotor, said housing means having air inlet and air outlet conduits positioned alongside of each other external to said rotor and relatively offset in directions parallel to the axis of said rotor and extending circumferentially partially around said rotor, whereby air from the air inlet conduits will be displaced transversely by said blades and discharged through the air outlet conduits.

2,285,800
ROLLER BEARING
Frank Ellison Best, Indianapolis, Ind.
Application September 6, 1940, Serial No. 355,629
10 Claims. (Cl. 308—205)



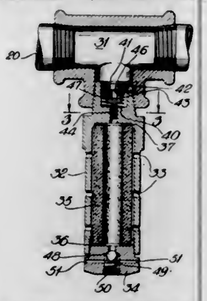
1. In a roller bearing comprising pairs of opposed conical rollers with their larger ends abutting in rolling contact, said rollers being retained and axially aligned in mating conical races, the combination of a plurality of spaced-apart gears on each of said rollers with mating race gears, said spaced-apart arrangement of said roller gears with said race gears cooperating in the maintenance of the alignment of the axes of said rollers, constituting each said pair, in an axial plane of said races, and cooperating rolling contact means on said rollers and said races maintaining correct endwise positioning of said rollers.

2,285,801
CONTAINER CARRIER AND DISPLAY MEANS
Joseph H. Burnet, Glen Ridge, N. J.
Application March 4, 1941, Serial No. 381,629
6 Claims. (Cl. 224—45)



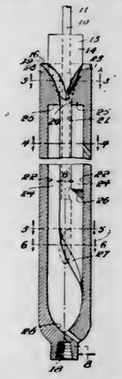
1. A carrier for cans which have projecting top and bottom rims comprising, a body formed from sheet material against which the side of a can to be carried may abut, said body having at its lower part can bottom rim engaging means, and said body having at its upper part a convolute loop element having a free end portion to project through and exteriorly of the body, said free end portion terminating in can top rim engaging means, said loop element serving as the handle means of the carrier.

2,285,802
CONDENSATE TRAP FOR SUCTION CONDUITS
Clarence Noel Cahusac, Newark, and Frank B. Allen, Verona, N. J., assignors to C-O-Two Fire Equipment Company, Newark, N. J., a corporation of Delaware
Original application January 23, 1940, Serial No. 315,194. Divided and this application March 14, 1941, Serial No. 383,334
6 Claims. (Cl. 137—103)



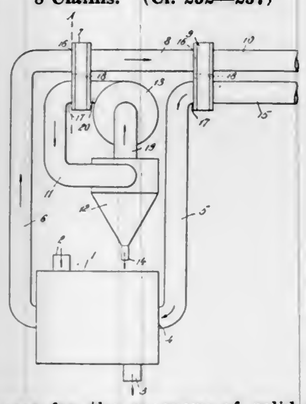
1. A trap for catching products of condensation and permitting them to escape to the air, comprising a casing having a reduced bore in its upper end to conduct products of condensation thereinto, the side walls of said casing being perforated, a hollow porous member located within said casing having its bore in registry with the bore in said end of said casing, and means for closing the lower end of said casing and sealing said porous member against said means and the upper end of said casing.

2,285,803
COUPLING DEVICE
Joseph W. Cammack, El Dorado, Ark.
Application May 1, 1941, Serial No. 391,418
3 Claims. (Cl. 287—119)



1. In a coupling device, a head receiving socket section having a longitudinally directed spiral guideway opening through the top and terminating within the bottom of the section, the said section also having a straight longitudinally extending guideway extending from the bottom of the spiral guideway to a shoulder projection short of the top end of the socket section, the said guideways being shaped to turn a complementary head section about a vertical axis as it is lowered longitudinally into the socket section to position the said head section at the bottom of the straight guideway and to allow upward movement thereof in the latter guideway to the said shoulder for effecting releasable connection of the head section with the socket section.

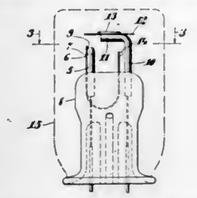
2,285,804
REGENERATION OF CATALYTIC MATERIALS AND APPARATUS THEREFOR
Oliver F. Campbell, Whiting, and Harry L. Pelzer, Chesterton, Ind., assignors to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application October 23, 1940, Serial No. 362,429
8 Claims. (Cl. 252—237)



6. Process for the recovery of solid particles suspended in effluent gases from a zone of reaction comprising transferring the major portion of the suspended solid particles from the effluent gases to an independent stream of gases by alternately passing a stream of the effluent gases and the independent stream of gases in opposite directions through a filtering medium, separating the major portion of the solid particles suspended therein from the independent stream of gases and returning any residual solid particles suspended therein to the stream of effluent gases from which the major portion of the suspended solid particles has been separated by repassing the independent stream of gases containing such residual solid particles through the filtering medium as just specified, alternately passing the stream of effluent gases from said filtering operation together with the residual solid particles suspended therein and a stream of reactive gases to be passed to the zone of reaction in opposite directions through progressively advancing sections of the filtering medium of a continuously operating filter, the filtering medium of which is of sufficient fineness to retain the residual solid particles whereby the solid particles deposited thereon from the effluent gases are carried off by the stream of reactive gases and passing the stream of the reactive gases together with the residual solid particles suspended therein to the zone of reaction.

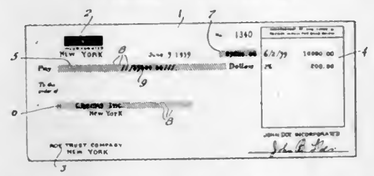
2,285,805
STARTER SWITCH
Charles Chirelstein, Newark, N. J.
Application May 15, 1941, Serial No. 393,611
1 Claim. (Cl. 200—113)

A starter switch, comprising an envelope, a support projecting into said envelope, conductive stems projecting beyond the end of said support into the envelope, one of said stems having an angularly bent end portion projecting laterally to one side of said support, a bowed U-shaped bimetallic switch element having one end attached to said laterally projecting end portion of said stem and supported thereby in laterally spaced relation to one side of said support and with the loop of the same located to the side of the support and inward of the end of the support, the opposite free end of said U-shaped bimetallic switch element being disposed toward the other stem and having a contact portion movable in the expansion of said bimetallic element toward and into engagement with a portion of said stem



and a plate mounted on said latter stem in position substantially at a right angle to the longitudinal extent of said U-shaped element and extending laterally to that side of the support where said bimetallic switch element is located, said plate extending across the gap between the supported and the free, contact ends of said bimetallic switch element and faced directly into the loop of said U-shaped bimetallic switch element and said facing portion of said plate having an electron emissive coating directed toward and into said closed loop of said U-shaped bimetallic switch element.

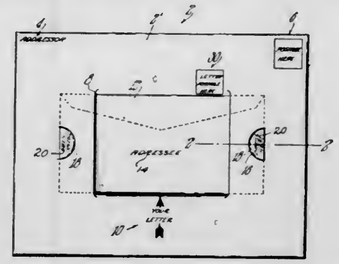
2,285,806
MEANS FOR PREVENTING FRAUDULENT ALTERATION OF DOCUMENTS
Wilmot S. Close, Mountain Lakes, N. J.
Application November 2, 1940, Serial No. 363,977
2 Claims. (Cl. 283—9)



1. As an article of manufacture, a sheet of fibrous material having a face to receive inscriptions in ink, the zone of said face intended to receive an inscription having its surface in closely spaced areas broken and certain of the fibers dislocated and projecting therefrom in said areas, the portions of said surface between said areas being smooth so that an inscription can be legibly written in ink in said zone and ink will be diffused in said areas, whereby to render alteration of said inscription without detection practically impossible.

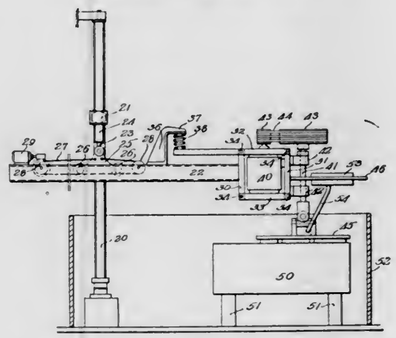
2,285,807
ENVELOPE
Gerald O. Cloutier, Westfield, Mass., assignor to Old Colony Envelope Company, Westfield, Mass., a corporation of Massachusetts
Application September 3, 1940, Serial No. 355,174
2 Claims. (Cl. 229—72)

1. An envelope construction including relatively large and small envelopes comprising in combination, the large envelope having a front wall provided with substantially parallel spaced slits for receiving opposite end portions of the small envelope and other slits spaced outwardly from the first-named slits forming tabs extending forwardly towards said first-named slits from hinge lines provided by their jointure with the said front wall, and being depressible relative to said front wall, the said small envelope being disposed



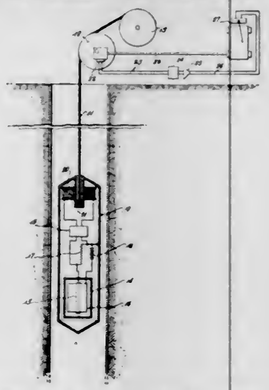
over the front wall of the large envelope with its end portions extending through said first-named slits and disposed beneath the said front wall whereby the main body thereof is exposed over said front wall between said first-named slits and the endmost portions are exposed over said tabs while the end edges abut the jointure of said tabs and front wall so as to be held against longitudinal shifting movements relative to the said front wall.

2,285,808
STONE POLISHING MACHINE
William G. Cumming, Barre, Vt., assignor to Granite City Tool Company, Barre, Vt., a corporation of Vermont
Application December 12, 1940, Serial No. 369,777
8 Claims. (Cl. 51—126)



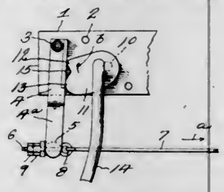
1. A stone polishing machine comprising a support, a horizontal beam movably mounted on the support intermediate its ends to shift endwise and to tilt up and down, means on one end of the beam to shift it endwise on the support, an arm pivotally mounted on the other end of the beam to swing up and down, the outer end of the arm projecting beyond the end of the beam and the inner end of the arm extending along the beam, a grinding wheel mounted on said outer end to rotate about a vertical axis, and a spring interposed between the beam and said inner end to cushion said up and down movement of the arm.

2,285,809
WELL SURVEYING METHOD AND APPARATUS
Robert F. Davis, Washington, D. C., assignor to Well Surveys, Incorporated, Tulsa, Okla., a corporation of Delaware
Application April 4, 1940, Serial No. 327,929
18 Claims. (Cl. 250—83.6)



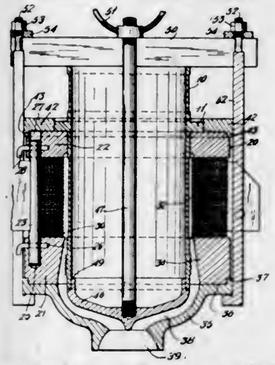
1. A method of geophysical prospecting that comprises obtaining measurements of radiation from surrounding geological strata in a well bore or similar opening in the ground, converting the measurements into proportionally related mechanical vibrations, transmitting the mechanical vibrations to the surface and recording at the surface the measurements from the vibrations.

2,285,810
BRAKE OPERATING MECHANISM
Russel L. Eslinger, Harrisburg, Pa., assignor of thirty-five one hundredths to Thomas C. Zerbe, Harrisburg, and thirty one hundredths to Alfonso A. Graybill, Steelton, Pa.
Application June 6, 1941, Serial No. 396,925
1 Claim. (Cl. 74—523)



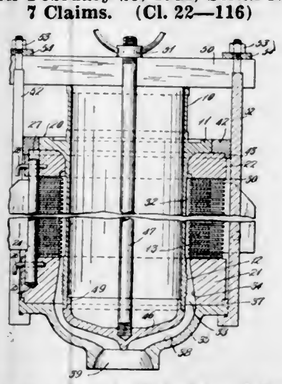
A brake operating mechanism comprising a pivoted lever, a brake operating member member connected to the pivoted lever, a pivoted cam adjacent one side of said pivoted lever and having its free end extending towards said pivoted lever, said free end of the cam having spaced shoulders, one of said spaced shoulders being adapted to pass through a line between the pivotal point of the cam and the pivoted lever for holding said cam against retrograde movement under the tension of the set brake mechanism, said other shoulder of the cam being further from the center of the pivotal point of the cam than the other shoulder and forming additional braking means upon further rotation of the cam, an operating lever carried by said cam at a point between the pivotal point of the cam and its free end and an outwardly extending stop member carried by the pivoted lever in the plane of the operating lever.

2,285,811
METHOD OF FINNING
Arthur W. Gay, Akron, Ohio
Application October 24, 1940, Serial No. 362,580
12 Claims. (Cl. 22—204)



1. The method of producing a cylinder barrel of a ferrous metal alloy for an air-cooled internal combustion engine with preformed aluminum cooling fins on the exterior surface thereof which includes the steps of providing that portion of the exterior of a cylinder barrel which is to receive the fins, with a coating of a metal alloy having a relatively low melting point, assembling ring-like aluminum fin members in spaced relation along the wall of the barrel, and then securing the fin members to the barrel by casting an aluminum alloy sleeve about the barrel of sufficient thickness to embody the inner edge portions of fin members.

2,285,812
APPARATUS FOR PRODUCING FINNED CYLINDER BARRELS
Arthur W. Gay, Akron, Ohio
Application February 28, 1941, Serial No. 381,011
7 Claims. (Cl. 22—116)

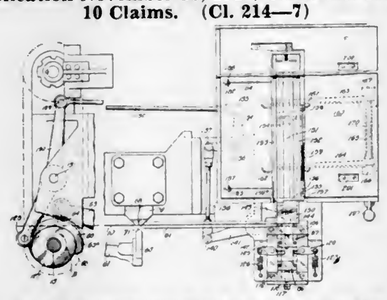


1. In apparatus of the class described the combination with a vertically disposed cylinder barrel of a permanent mold adapted to position preformed ring-like fin members along a portion of the exterior wall of the cylinder barrel, said mold comprising spaced upper and lower mold members, means for maintaining said mold members in predetermined spaced relation, a plurality of stacked spacer members relatively movable between said mold members along said spacing means and defining a cylindrical casting cavity about said barrel, said spacer members serving to support therebetween fin members with the inner edge portions thereof extending into said casting cavity, and a ring gate defined by the barrel wall and the inner wall of the lower mold member serving to direct molten metal into said casting cavity.

2,285,813
VULCANIZATION ACCELERATOR
Roy S. Hanslick, New Haven, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application June 22, 1939, Serial No. 280,445
5 Claims. (Cl. 260—793)

1. A process of accelerating the vulcanization of rubber which comprises vulcanizing it in the presence of a thiocarbamyl sulfamine wherein the amine group attached to sulfur is a primary amine group.

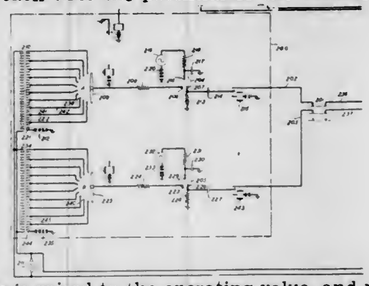
2,285,814
STACKING MACHINE
Hermann Hill, Bridgeport, Conn., assignor to Magazine Repeating Razor Company, New York, N. Y., a corporation of New Jersey
Application November 10, 1941, Serial No. 418,607
10 Claims. (Cl. 214—7)



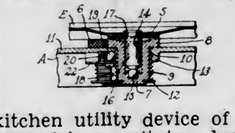
1. In a machine for stacking razor blades and the like, a pair of independently movable slide units, stops adapted to limit the movement of each unit in both directions, spring means normally urging both the slide units to advance position, one of the units being provided with additional spring means more resistant to flexure than the spring means urging it to advance position, means acting intermittently on the said additional spring means to retract the said slide unit against the resistance of its advancing spring means and to effect engagement with the second slide unit and cause retractive movement thereof after the first-mentioned slide unit has been fully retracted, and means for feeding articles across the path of the slide units and in advance of their working faces.

2,285,815
SIGNALING SYSTEM
William H. T. Holden, Woodside, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 17, 1940, Serial No. 361,537
10 Claims. (Cl. 179—18)

10. The combination in a signaling system of a space-discharge device having a main electrode and a control electrode, a source of alternating voltage, a transformer having a primary winding and a multiplicity of secondary windings connected in series relation, said transformer serving to apply alternating potential to said control electrode for raising the potential of said electrode to the operating value at each cycle of said alternating voltage, circuit means for connecting said source of alternating voltage to said primary winding, a circuit for said main electrode, a source for causing current to flow in said main electrode circuit to produce a signal in said circuit each time the potential of the control electrode is raised to the operating value, and means for connecting varying numbers of said secondary windings in series to said control electrode to vary correspondingly the amplitude of the alternating potential applied to said electrode for varying the time in the cycle of said alternating potential at which the potential of said control electrode reaches said operating value.

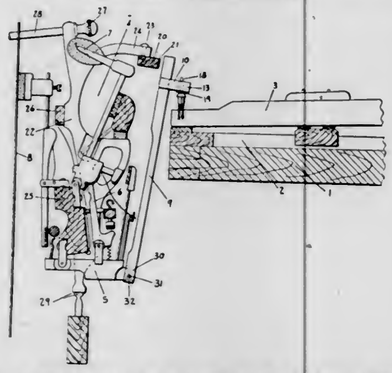


2,285,816
KITCHEN UTILITY DEVICE
Richard H. Jordan, Hamden, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a corporation of Maryland
Original application November 23, 1938, Serial No. 241,966. Divided and this application February 19, 1941, Serial No. 379,617
2 Claims. (Cl. 259—1)



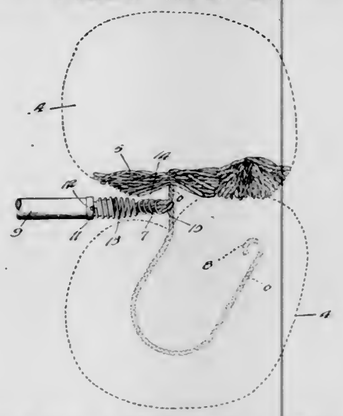
1. In a kitchen utility device of the type in which a motor-driven agitator depends into a mixing bowl mounted on a turntable arranged above and rotatably mounted with respect to a suitable base, a mounting for the turntable intended to receive a pin carried by and extending downwardly from the turntable, constructed to permit adjustment of the turntable height by manual manipulation from the top of the base and to maintain the adjustment against the effects of jarring and vibration, said mounting comprising a socket member open at the top receiving the mounting pin of the turntable and provided above the base and beneath the turntable with a lateral manipulating flange, said socket member having on the body thereof exterior threads engaging threads in the base structure so that by turning said flange said socket member can be vertically adjusted relatively to the base, said flange being adapted to engage the upper surface of the base in order to limit the downward movement of the socket member, the threads on the socket member being interrupted at intervals by substantially upright grooves, and a spring-pressed detent device movable laterally in the base structure at one side of said socket member adapted to engage said grooves successively as the socket member is turned and acting to prevent any substantial vertical dislocation of the socket member under the effects of jarring or vibration.

2,285,817
PIANO ACTION
Armand F. Knoblaugh, Cincinnati, Ohio, assignor to The Baldwin Company, Cincinnati, Ohio
Application April 10, 1941, Serial No. 387,935
5 Claims. (Cl. 84—240)



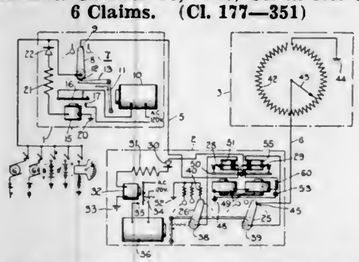
1. In an action for a low upright piano having a key, a capstan screw threadably secured in the top of said key, said screw providing a shoulder and an extension thereabove to be engaged by an abstract member, said screw being adjustable to vary the effective height of said shoulder above the top of said key, an abstract member operatively associated with said key for movement thereby, and a head structure on said abstract member having a substantially horizontally extending projection with a vertically extending aperture therein, said aperture being adapted to loosely receive said extension, with said projection seating on said annular shoulder, the positioning of said annular shoulder relative to the top of said key acting to define the limits of movement of said abstract member in response to movement of said key.

2,285,818
MOP
Arthur C. Kootz, Milwaukee, Wis., assignor to Gem Products, Incorporated, Milwaukee, Wis.
Application March 23, 1940, Serial No. 325,509
3 Claims. (Cl. 15—147)



1. In a mop, a handle with a screw end, a spiral wire holder having one end threaded on the screw end and the spiral coils at the other end free from the handle compressed and flattened, and a pad holding frame with a supporting stem inserted in and held by the flattened coils, the frame extending laterally in the plane of compression of the coils.

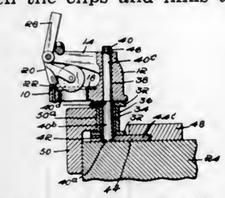
2,285,819
AUTOMATIC METER-READING APPARATUS
Ward Leathers, Brooklyn, N. Y., assignor, by mesne assignments, to International Business Machines Corporation
Application October 18, 1940, Serial No. 361,801
6 Claims. (Cl. 177—351)



1. In an apparatus for selectively and electrically connecting a plurality of widely distributed meters to a central station and for reading the same, a source of ground, a primary selector, a plurality of secondary selectors, a single reading wire leading from the central station to the primary selector, a single wire leading from the primary selector to each of the secondary selectors, a single wire leading from each of the secondary selectors to a plurality of meters whereby the latter are arranged in groups, a step-by-step selector switch at the primary selector for sequentially connecting the reading wire to said second-mentioned wires, a stepping magnet for actuating the switch, a source of energizing current for the magnet independent of the reading wire, a relay for applying impulses of said energizing current to the stepping magnet, said relay being responsive to individual pulsating current of one polarity, a unidirectional device connected to the reading wire and in series with the relay, a selector switch at each secondary selector for separately and selectively connecting the wire leading thereto from the primary selector to said wires leading to the group of meters with which the particular secondary selector is associated, a stepping magnet for the latter selector switch, a source of energizing current for the latter magnet independent of the reading wire, a relay for applying impulses of energizing current to the latter magnet, said latter relay being responsive to unidirectional current of opposite polarity from that employed to operate the other relay, and a unidirectional device connected to the wire leading from primary selector and in series with said latter relay.

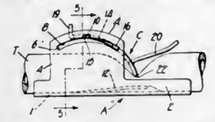
2,285,820
TENTER CHAIN
Harry A. MacKnight, Cranston, R. I., assignor to Winsor & Jerauld Manufacturing Company, Providence, R. I., a corporation of Maine
Application July 19, 1940, Serial No. 346,250
5 Claims. (Cl. 26—61)

1. A tenter chain for holding cloth comprising, in combination, a series of tenter clips connected by roller links and means associated with each clip engaging corresponding means associated with adjacent clips for maintaining the tenter chain in alignment while holding the cloth and permitting relative rotational movement between the clips and links to enable the



chain to engage and move with the toothed periphery of a sprocket.

2,285,821
TUBE COMPRESSOR DEVICE
Frank H. Maloney, Elmhurst, N. Y., assignor to Brass Goods Manufacturing Co., Brooklyn, N. Y., a corporation of New York
Application August 23, 1940, Serial No. 353,975
2 Claims. (Cl. 251—5)



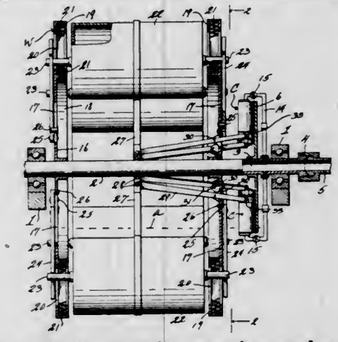
1. A device adapted to clamp tubing comprising, in combination, a base member provided with a pair of spaced apart upstanding brackets at its opposite edges and formed integral therewith, said brackets being provided with a pair of aligned arcuate guideways and the upper edge of each of said guideways being provided with a single notch, an upwardly inclined tongue of resilient material secured to the bottom of the base member between said brackets, an adjustable clamp member having oppositely disposed edge portions extending into and slidable along said guideways and having its rear end extending transversely between said brackets and arranged to engage the tubing and compress it against said tongue upon adjustment of the clamp member into its clamping position, the edge portions of the clamp member being arranged to enter said notches and retain the clamp member in tube clamping position.

2,285,822
MAGNESIUM BASE ALLOY
John C. McDonald, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application December 23, 1940, Serial No. 371,381
2 Claims. (Cl. 75—168)

1. A magnesium base alloy containing from 1 to 15 per cent of cadmium, from 0.01 to 1 per cent of cerium, from 0.3 to 8 per cent of zinc, from 0.01 to 3 per cent of manganese, and the balance being magnesium.

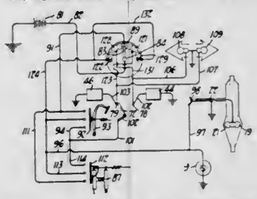
2,285,823
AIR COMPRESSOR
Alvin R. McEntyre, Gadsden, Ala.
Application December 23, 1941, Serial No. 424,175
4 Claims. (Cl. 230—60)

1. An air compressor comprising, in combination, a tubular shaft, a carry-off line in communication therewith, a water wheel mounted on the shaft and including heads, buoyant members interposed between said heads and engaged with the heads for rotation therewith, said members having independent movement radially of the heads, compressor units carried by the shaft for rotation therewith, there being one unit for each of the radially movable members, each of said units including a cylinder in communication with the tubular shaft and a compressor piston working therein, and an operative connection be-



tween a radially movable member and a piston of a compressor unit for reciprocating the piston upon radial movement of the associated member, the movement of the member for effecting the compression stroke of the piston being created by the force of the water thereon as said member passes through the water.

2,285,824
SIGNAL
James G. Moran, Orland, Calif.
Application March 14, 1938, Serial No. 195,671
10 Claims. (Cl. 177—327)

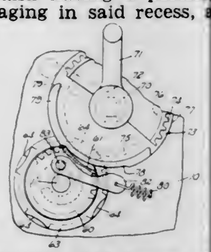


2. A signal comprising an indicating vane, a pneumatic motor for oscillating said vane between two extreme positions, electromagnetic means for connection with a pneumatic source for controlling said pneumatic motor, means for energizing said electromagnetic means to produce a repeated oscillation of said indicating vane between said extreme positions, and alternatively operable means for holding said vane in either of said extreme positions or in a position between said extreme positions.

2,285,825
RESETTING MECHANISM FOR COUNTERS
Thomas J. Moriarty, Forestville, Conn., assignor to Veeder-Root Incorporated, Hartford, Conn., a corporation of Connecticut
Application August 1, 1940, Serial No. 349,316
2 Claims. (Cl. 235—144)

1. In a counter, a reset shaft having a reset groove, a plurality of denominational order elements rotatable thereon and provided with pawls adapted to cooperate with said groove when the shaft is rotated in a resetting direction, a reset driven gear fixed to said shaft and having a locking recess, a driving member having a gear segment adapted to mesh with said driven gear and

a locking disk adapted to engage in said recess, said locking disk having a portion of reduced diameter engaging in said recess, and a spring



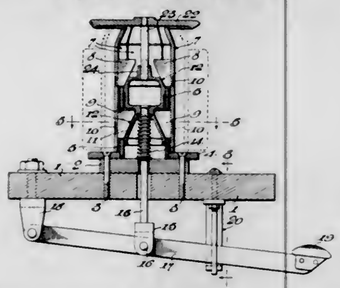
for reversely moving said driven gear and reset shaft a limited amount when said reduced portion engages in said recess.

2,285,826

MEANS FOR SUPPORTING YARN BODIES

Herbert Naumann, Elizabethton, Tenn., assignor to North American Rayon Corporation, New York, N. Y., a corporation of Delaware

Application March 11, 1937, Serial No. 130,319
8 Claims. (Cl. 242—129)



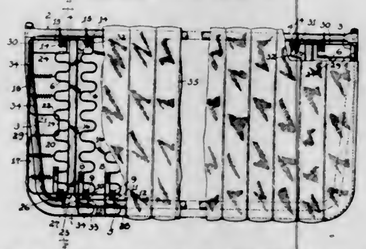
1. An apparatus for insuring the uniform unwinding of a normally unsupported hollow yarn body which includes a cylindrical support for said hollow body, expansible members radiating from said cylindrical support, and resilient means for exerting a continuously expanding pressure on said expansible members.

2,285,827

WIRE SPRING CONSTRUCTION FOR UPHOLSTERED FURNITURE

William H. Neely, Cleveland, Ohio, assignor, by direct and mesne assignments, to John C. Lincoln, Scottsdale, Ariz.

Application December 27, 1939, Serial No. 311,144
7 Claims. (Cl. 155—179)



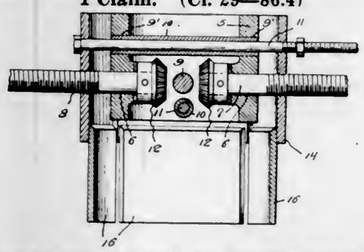
2. In a seat structure a frame having front and rear rails, a plurality of elongated wire springs bridging said frame crosswise thereof and secured to its front and rear rails, means interconnecting said wire springs to a seating surface, and a pre-tensioned U-shaped edge wire including torsional supporting and attaching arms, said edge wire being connected to the front ends of said springs and the outer sides of the outer ones of said springs and said torsional supporting arms being non-rotatably connected to the rear rail of said frame.

2,285,828

PISTON RING TOOL

Joseph A. Oberosler, Central City, Colo.

Application June 11, 1941, Serial No. 397,631
1 Claim. (Cl. 29—86.4)



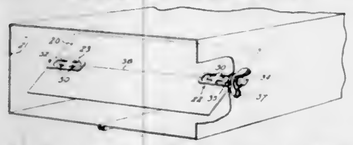
In a piston ring tool, an annular hollow body, a cylindrical shaped sectional shell composed of a plurality of arcuate sections positioned about said body and projecting beyond one end thereof, said sections including portions extending beyond said projecting end and axially of said shell to engage a piston ring for the expansion and contraction thereof, guide rods arranged at right angles to each other and one above the other and carried by the body and slidably supporting, at each end, opposed sections of the shell and limiting the distance of travel of the sections away from the body, feed shafts journaled in said body between the guide rods and having threaded connections with the sections, gearing interconnecting said shafts for simultaneous actuation, said gearing being located within the body, and a crank handle formed on one of the shafts for the simultaneous operation of said shafts and, through the threaded connection with said arcuate sections, for simultaneous adjustment of the sections toward and from the body.

2,285,829

DAMPER REGULATOR

Alfred E. Maage, Jr., Milwaukee, Wis.

Application July 15, 1939, Serial No. 284,637
12 Claims. (Cl. 251—11)



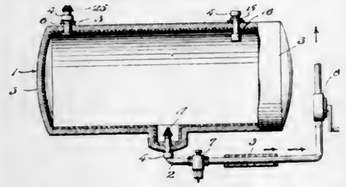
1. A damper regulator for an adjustable damper in an air conduit comprising, a pair of sheet metal stampings forming respectively a headpiece and a tailpiece, each of said pieces having a pair of spaced damper engaging portions adapted to slidably receive opposite edges of the damper, a bearing portion on each piece adapted to extend through the wall of the air conduit, and a manually engageable portion formed integrally with one of said pieces adapted to provide means for adjusting the position of the damper within the air conduit.

2,285,830

SAFETY TANK AND FUEL SYSTEM FOR AIRCRAFT

William Willard Paget, Newark, N. J.

Application January 13, 1939, Serial No. 250,846
6 Claims. (Cl. 158—46)



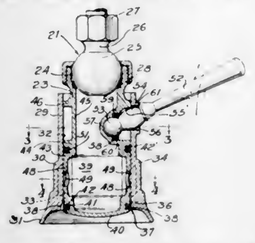
1. In a safety fuel system for aircraft comprising a safety fuel tank, fuel lines, pump and carburetor or the like, said safety fuel tank comprising and being provided with a substantially heat and flame impermeable jacket of suitable, preferably mineral substance or material adapted to prevent the transfer of external heat to the tank interior with resultant dangerous pressures, ebullition or explosion of the contents in event of external flame or fire.

2,285,831

SHOWER BATH SPRAY HEAD

Edward J. Pennypacker, Los Angeles, Calif., assignor to Kay R. Braly, North Hollywood, Calif.

Application May 29, 1939, Serial No. 276,341
13 Claims. (Cl. 299—144)



1. In a shower bath spray head of the character described, the combination of: a shell having an opening exposed to the exterior, said opening being defined by a substantially cylindrical wall having in its inner face outwardly enlarging flow channels; means for delivering fluid to the interior of said shell; a gate of resilient material of the character of rubber to engage said inner face of said wall and by extension across said flow channels forming of them flow orifices which enlarge outwardly; and means for holding said gate in a desired position of adjustment within said opening so that a selected portion thereof will lie between the ends of said flow channels.

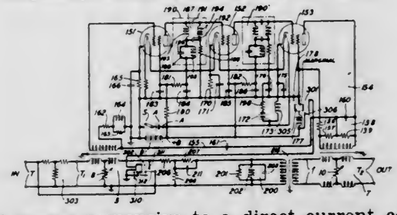
2,285,832

FEEDBACK AMPLIFIER

Edwin H. Perkins, Basking Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application April 20, 1940, Serial No. 330,671
17 Claims. (Cl. 179—171)

1. A wave translating system comprising an electric space discharge wave amplifying device, means forming with said device a feedback loop adapted to produce feedback with the loop gain exceeding zero decibels for a frequency at which the loop phase shift is zero and with the graph of the imaginary part of the loop propagation plotted against the real part for all real values of frequency avoiding encircling the point 1,0,



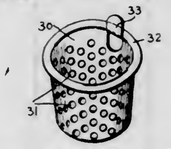
and means responsive to a direct current component of space current of said device for controlling the loop propagation.

2,285,833

DISPOSABLE DRAIN STRAINER

Isabelle R. Platt, Waterville, Conn.

Application January 27, 1938, Serial No. 187,192
1 Claim. (Cl. 210—170)



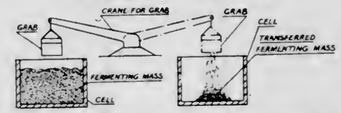
A strainer for a waste drain fitting comprising a tapered cup-shaped member smaller at the bottom than at the top and made of foldable paper-like material adapted to absorb and retain perfume or disinfectant, said member being perforated to permit fluid to pass therethrough but to collect waste solid material, said member having a tab struck up from the body thereof and extending upwardly from its upper open edge to facilitate handling thereof, said strainer being shaped to snugly fit within the upper edge of said waste drain.

2,285,834

PROCESS FOR THE TREATMENT OF ORGANIC MATTER BY FERMENTATION

Douglas McIntyre Proctor, Bushey, England, assignor to Mitchell Engineering Limited, London, England, a British company

Application August 8, 1938, Serial No. 223,648
In Great Britain July 10, 1937
4 Claims. (Cl. 71—9)



1. A new process for the treatment of house refuse which comprises first, converting the refuse by mechanical comminution into a loose shredded mass, regulating the moisture in the shredded mass prior to fermentation to provide a quantity of liquid necessary for efficient and complete fermentation without destroying the loose nature of the shredded mass and its capacity to retain air, uniformly distributing the moist shredded mass into a cell in such manner as to naturally aerate the same during its entry and as to form a single relatively deep pile without changing the loose character thereof, fermenting the loose shredded mass aerobically by natural aeration through the air retained within the mass, and, after a period of fermentation,

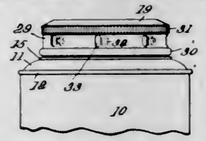
transferring the partially fermented mass, in a manner to aerate and loosen the mass during the transfer, at least once, from one cell to form a single relatively deep pile in one other cell, for further fermentation by natural aeration until the mass becomes converted into a substantially dry humus fertilizer having the appearance of leaf mould.

2,285,835

DISPENSING CONTAINER

William F. Punte, Syracuse, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application June 16, 1941, Serial No. 398,350
3 Claims. (Cl. 221—64)



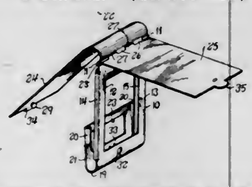
1. A sifter top adapted to be connected to a container for controlling dispensing of the contents thereof, and comprising an inner cap member having an outer closing wall provided with dispensing openings and having a depending skirt portion, an outer cap member having an outer closing wall provided with dispensing openings and having a depending skirt portion overlying and spaced from the skirt portion on said inner cap member, means connecting said skirt portions for joining the said cap members for relative rotation whereby to permit the dispensing openings to be brought into and out of register for controlling the dispensing of the contents of the container, the skirt portion of said inner cap member having outwardly extending spaced circular projections, the skirt portion on said outer cap member having inwardly extending spaced projections adapted to cooperate with the projections on the inner skirt portion for limiting relative movement between the said cap members, and the projections on the outer skirt portion being shaped to present substantially straight vertical edges for engagement with the other projections during rotation of the assembled cap members and being also shaped to present rounded bottom edges whereby to facilitate passage of the projections past one another during assembly of the cap members without predetermined rotary positioning thereof.

2,285,836

MATCH PACKET AND CARDCASE

Frederick W. Rettenmeyer, Meriden, Conn., assignor to The Napier Company, Meriden, Conn., a corporation of Connecticut

Application April 1, 1941, Serial No. 386,273
3 Claims. (Cl. 206—38)



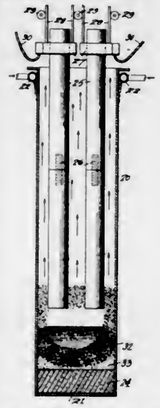
1. A combined match-packet holder and cardcase comprising a body-member formed with an opening through which a card may be exposed, the sides of the body member folded inward, forming card-receiving channels, the lower end of the body member turned up, forming a match-packet pocket, an opening in said turned-up end through which the abrasive surface of a match-packet is exposed, and covers hinged to the top of the body member and adapted to cover the opposite faces of the same.

2,285,837

METHOD OF PRODUCING THE ABRASIVE METAL CARBIDES

Raymond Ronald Ridgway, Niagara Falls, N. Y., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application November 23, 1940, Serial No. 366,834
7 Claims. (Cl. 13—34)



1. The method of making boron carbide comprising the steps of mixing granular carbon and coarse granules of dense boron oxide in stoichiometric proportions for making boron carbide of desired boron content, developing an electric arc in a deep open ended cell and maintaining the reaction temperature, feeding the charge mixture gradually to the arc and forming molten boron carbide which crystallizes as a growing ingot, maintaining a substantially unobstructed cell space above the reaction zone which is several times deeper than the width of the cell opening, controlling the power input to produce reaction gases rapidly and causing them to travel continuously throughout said cell space and prevent the ingress of atmospheric gases to the reaction zone, maintaining the molten boron carbide out of contact with excess soluble carbon during both the forming and cooling stages, and cooling the boron carbide within the cell in an inert atmosphere devoid of oxygen and nitrogen to a temperature at which it is stable in air.

2,285,838

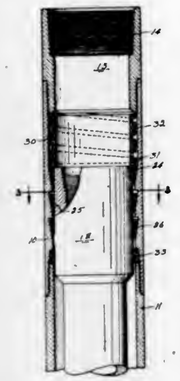
FISHING TOOL

Philip M. Rea, Oklahoma City, Okla.

Application July 3, 1939, Serial No. 282,685
4 Claims. (Cl. 294—102)

1. In a fishing tool: an overshot bowl; a plurality of vertically spaced tapered slip seats in the bowl and having vertical slots intersecting them; slips upon the seats formed in segmental sections, each section comprising a plurality of substantially semi-circular fish engaging members having their exterior surfaces tapered to conform with said seats; vertically disposed bars holding the ends of the members in spaced relation and lying within said slots; and, a tubular follower slidably disposed within the bowl above

the slips and having legs extending downwardly into the slots and between the bars, said legs



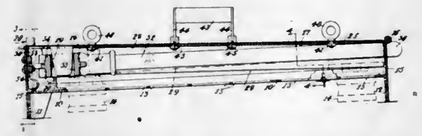
adapted to hold the slip segments upon their seats.

2,285,839

CONTAINER FOR PIPE CUTTERS

Emil Richter, Jackson Heights, N. Y.

Application April 27, 1940, Serial No. 332,092
1 Claim. (Cl. 206—16)



A container for pipe cutters, comprising a box-like structure of elongated shape having a bottom with openings therein for the pipe cutters, two end pieces, the first having an opening for the projection of the pipe cutter handle, a lock adjacent the second end piece, a support near the lock at the bottom of said structure for the ratchet end of the handle, said handle when supported by the first end piece and upon said support, extending over the tops of the pipe cutters, for preventing upward movement of the pipe cutters, and a cover hinged over the one first end piece and extending over the pipe cutters and handle, and having its other end acting in cooperation with said lock, said cover having depending sidewalls extending laterally of the cutters to enclose the same, a wall depending from said cover, the inner part of the wall engaging the cutters for holding the cutters against upward movement from the bottom and having a projection for engaging the cutting end of the handle, for holding it against movement.

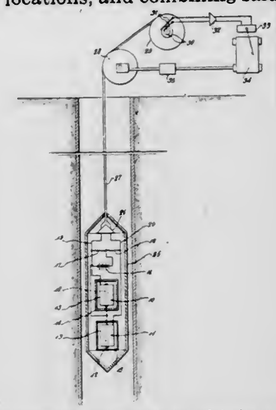
2,285,840

WELL SURVEY METHOD AND APPARATUS

Serge Alexander Scherbatskoy, Tulsa, Okla., assignor to Well Surveys, Incorporated, Tulsa, Okla., a corporation of Delaware

Application August 4, 1939, Serial No. 288,456
21 Claims. (Cl. 250—83.6)

1. A method of geophysical exploration utilizing radiations of the type that emanate from radioactive materials that comprises measuring the intensity of the radiations, both of the hard and soft variety, present at various locations adjacent the formations to be explored, measuring the intensity of the hard radiations only at the same locations, and combining said two measurements at each location to obtain a differential measurement for each location.

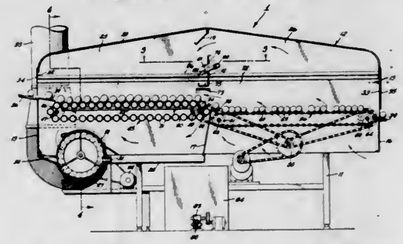


2,285,841

APPARATUS FOR TREATING FRUIT

Jagan N. Sharma, Los Angeles, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware

Original application May 31, 1939, Serial No. 276,599. Divided and this application April 29, 1940, Serial No. 332,241
7 Claims. (Cl. 91—44)



6. An apparatus for treating fruit comprising: means forming an enclosed treating chamber having an air inlet opening in its upper portion; means disposed below said inlet opening for conveying fruit through said chamber, said conveying means having openings therein to permit the passage of air downwardly therethrough; means for exhausting air from said chamber beneath said conveyor to cause a current of air to flow into said chamber by way of said inlet opening and thence downwardly through the conveying means; and means disposed above said conveying means and in the path of said air current for discharging finely divided particles of treating liquid into the current.

2,285,842

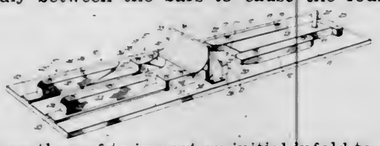
PACKAGE WRAPPING MACHINE

Jacob Silberman, Lima, Ohio

Application October 23, 1940, Serial No. 362,323
4 Claims. (Cl. 93—2)

1. A manually operated machine for folding inwardly the ends of a wrapper about the corresponding ends of a rectangular article to be wrapped comprising a flat base, a pair of opposed spaced parallel folder bars fixedly mounted on said base, the inner ends of the bars being under-

cut and their inner corners rounded, a pusher member slidably mounted on said base and disposed between said bars and guided thereby during its sliding movement, the inner end of the pusher member being disposed short of the rounded inner corners of the bars when the pusher member is in fully retracted position, whereby a partially wrapped package may be placed upon said base and manually slid inwardly between the bars to cause the rounded



corners thereof to impart an initial infold to each end of the wrapper, and a plurality of succcessive spaced apart folder stations mounted on said base forwardly of and in longitudinal alinement with the folder bars whereby manual sliding of the pusher member forwardly will cause the initially infolded ends of the wrapper to be successively presented to the respective folder stations to complete the infolding of the ends of the package.

2,285,843

NITROGEN GENERATING CHEMICALS

Wendell V. Smith, Nutley, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application December 13, 1939, Serial No. 308,957

5 Claims. (Cl. 23—104)

1. A process which comprises mixing ammonium sulphate with alkali metal nitrite in the ratio of approximately one molecular proportion of the sulphate to approximately two molecular proportions of the nitrite in ammoniacal water solution containing an amount of water only sufficient to maintain in solution most of the ammonium nitrite formed in the ensuing reaction but insufficient to maintain in solution the alkali-metal sulfate formed, and heating the mixture to cause the reaction to take place.

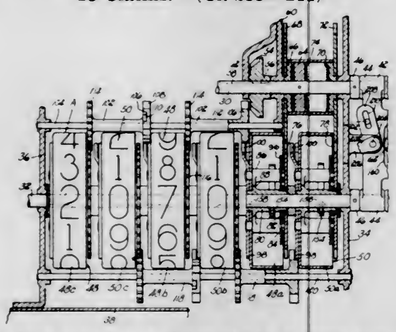
2,285,844

COUNTER

Harvey L. Spaunburg, West Hartford, Conn., assignor to Veeder-Root Incorporated, Hartford, Conn., a corporation

Application November 29, 1939, Serial No. 306,607

13 Claims. (Cl. 235—144)



1. In a counter, a drive shaft, a reset shaft, a pair of counting units mounted on said reset shaft, drive means for said counting units, each including a clutching member, a cooperating clutching member carried by said drive shaft, means for operating said reset shaft in a resetting direction, cooperative means carried by said counting units and said resetting shaft for connecting said units to said reset shaft, and means for simultaneously shifting said drive shaft and said reset shaft to clutch one of said units to said drive shaft for counting operation and to engage the other unit with the reset shaft for resetting operation.

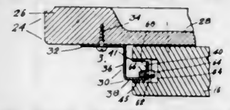
2,285,845

HIGH CHAIR AND TRAY LOCKING DEVICE THEREFOR

Richard Stinson, Athol, Mass.

Application April 18, 1939, Serial No. 268,552

13 Claims. (Cl. 155—127)



3. In a high chair, a seat, a pair of side rails, means mounted on the seat for supporting the side rails above the seat, a removable tray mounted for forward and rearward movement above said rails, said rails each having a groove located in the outer side portion thereof, a channel member fixed in each of said grooves having a plurality of openings therein, a pair of cooperating members fixed to said tray and each having an inwardly extending portion slidably fitting into one of the channel members, and means carried by one of said cooperating members and extending into one of said openings for locking said channel and cooperating members in adjusted position.

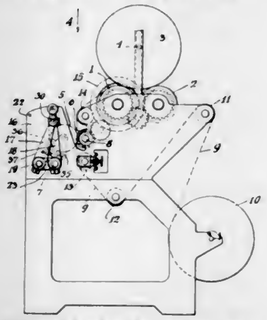
2,285,846

SLITTING DEVICE

William M. Stocker, Hollis, N. Y., assignor to Cameron Machine Company, Brooklyn, N. Y., a corporation of New York

Application May 2, 1941, Serial No. 391,462

5 Claims. (Cl. 164—65)



5. In a slitting device in which two groups of rotatable and circular shears engage sidewise under spring pressure in overlapping relation, the combination with a supporting shaft for one of said groups of shears, said shaft mounted to have two movements, one an endwise movement to bring the shears of the two groups into and out of sidewise engagement and, another, a turning movement to bring the shears of the two groups out of overlapping relation, a plurality of holders carried by said supporting shaft, a group of shears, one shear mounted in each holder, resilient means to individually urge each shear of said group in a direction parallel to the axis of the supporting shaft and sidewise toward a cutter of the other group, operating elements to separately effect said movements of said supporting shaft, and interengageable means associated with said elements which by their interengagement prevent movement of said supporting shaft to bring the shears of the two groups out of overlapping relation until after they have been brought out of sidewise engagement, and to prevent movement of said supporting shaft to bring the shears of the two groups into sidewise engagement until after they have been brought into overlapping relation.

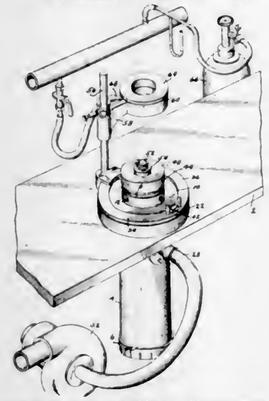
2,285,847

APPARATUS FOR MAKING DIAMOND TOOLS

Rutherford H. Taylor, Millburn, N. J., assignor to J. K. Smit & Sons, Inc., New York, N. Y., a corporation of New York

Application August 26, 1941, Serial No. 408,321

4 Claims. (Cl. 22—73)



1. Apparatus for casting diamond tools comprising in combination a reduced pressure cylinder, means for reducing the pressure in said cylinder, a mold supported on said cylinder and comprising a sectional diamond supporting die plate providing the bottom of the mold and a cap for said cylinder, a ring gear in which said die plate is mounted, and a driving pinion meshing with said ring gear for rotating the mold about the vertical axis of said cylinder.

2,285,848

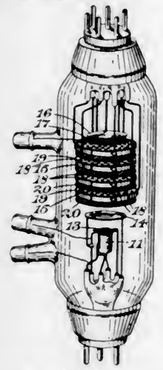
ELECTRON MULTIPLIER

François Joseph Gerard van den Bosch, Horley, England, assignor to Vacuum-Science Products Limited, London, England, a British company

Application March 29, 1940, Serial No. 326,813

In Great Britain May 11, 1939

2 Claims. (Cl. 250—175)



1. An electron multiplier comprising a primary cathode, a plurality of secondary cathodes each consisting of a perforated plate and a collector electrode, an auxiliary electrode positioned between successive secondary cathodes and also consisting of a perforated plate, the perforations in said auxiliary electrode being in line with the perforations of the preceding secondary cathode and staggered in relation to the perforations in the succeeding secondary cathode.

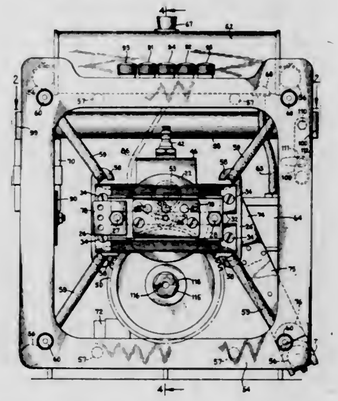
2,285,849

ELECTRIC GENERATOR APPARATUS

Charles F. Wallace, Westfield, N. J., assignor to Wallace & Tiernan Products, Inc., Belleville, N. J., a corporation of New Jersey

Application February 7, 1940, Serial No. 317,635

8 Claims. (Cl. 290—1)



1. Portable electric generator apparatus comprising a light-weight, skeleton frame, a bracket, a miniature internal combustion engine carried by and on one side of the bracket, an electric generator having a permanent magnet rotor, carried by and on the other side of the bracket, said rotor being driven by said engine, and long, tensioned, elastic mounting members extending from outer parts of said frame to said bracket, to provide the sole support for said bracket, engine and generator.

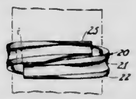
2,285,850

SPRING RING HOSE CLAMP

Walter L. Weeks, Glen Rock, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York

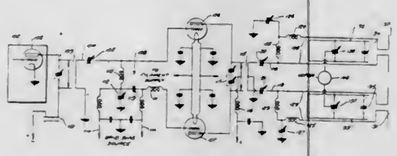
Application August 28, 1940, Serial No. 354,529

6 Claims. (Cl. 24—19)



6. A hose clamp comprising an open circlet of spring material, the material tapering substantially uniformly from maximum cross-sectional area at a point opposite the circlet opening to a lesser cross-sectional area adjacent the circlet opening, the material ends at the circlet opening crossing one another to comprise substantially straight portions tangent to the circlet adapted to be grasped by a plier tool for assembling or disassembling the clamp with respect to a hose.

2,285,851
SHORT WAVE TRANSMITTER
Paul F. Byrne, West Caldwell, N. J., assignor to International Telephone & Radio Manufacturing Corporation, a corporation of Delaware
Application March 22, 1939, Serial No. 263,367
2 Claims. (Cl. 250—17)



1. In a radio beacon transmitter comprising a source of radio frequency energy, two balanced antennae, two independent balanced two-conductor lines coupled with said source, and means coupling one of said antennae to each of said last named balanced two-conductor lines, modulating means connected to each of said two-conductor balanced lines, said modulating means comprising a variable impedance network coupled across each of said balanced transmission lines, said network normally offering substantially no impedance to the passage of said radio frequency energy upon variation of said impedance, said impedance networks each comprising a section of transmission line spaced from each of said balanced transmission lines and normally detuned with respect to the frequency to be transmitted and tuning means comprising a variable tuning arrangement operatively associated with said transmission line section for alternately tuning said sections to said frequency.

2,285,852
WATER-SWELLING NONFIBROUS PELLICLE WITH A WATERPROOF COATING
Ralph T. K. Cornwell and Charles M. Rosser, Fredericksburg, Va., assignors to Sylvania Industrial Corporation, Fredericksburg, Va., a corporation of Virginia
No Drawing. Application May 14, 1938, Serial No. 207,938
4 Claims. (Cl. 91—68)

1. An article of manufacture comprising a water-swelling nonfibrous pellicle, a single, waterproof coating disposed over and anchored to said pellicle and including nitrocellulose, a heat-hardened urea-formaldehyde resin and a plasticizer, the said coating being capable of stretching to substantially the same extent as the pellicle when immersed in water, and the urea-formaldehyde resin being present in a greater amount than the combined amount of the other ingredients of the coating.

2,285,853
LUBRICATION
Frederick Baxter Downing, Carneys Point, Anthony F. Benning, Penns Grove, and Frank Willard Johnson, Pennsville, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 23, 1934, Serial No. 712,610
15 Claims. (Cl. 252—53)

1. A lubricant for metallic bearing surfaces consisting of a major proportion of a petroleum lubricating oil and a minor amount of an acid ester of a sulfur-free acid of phosphorus.

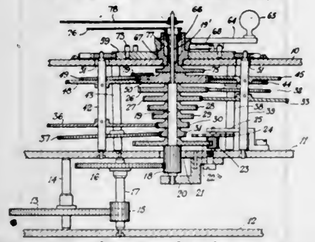
2,285,854
LUBRICATION
Frederick Baxter Downing, Carneys Point, Anthony F. Benning, Penns Grove, and Frank Willard Johnson, Pennsville, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Original application February 23, 1934, Serial No. 712,610. Divided and this application November 16, 1934, Serial No. 753,300
21 Claims. (Cl. 252—53)

1. A lubricant for metallic bearing surfaces consisting of a major proportion of a mineral lubricating oil and a minor amount of an aliphatic ester of a sulfur-free acid of phosphorus.

2,285,855
LUBRICATION
Frederick Baxter Downing, Carneys Point, Anthony Francis Benning, Penns Grove, and Frank Willard Johnson, Pennsville, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Original application February 23, 1934, Serial No. 712,610. Divided and this application April 10, 1936, Serial No. 73,642
39 Claims. (Cl. 252—53)

1. A lubricant consisting of a hydrocarbon oil and a small quantity of an aryl ester of phosphorus acid.

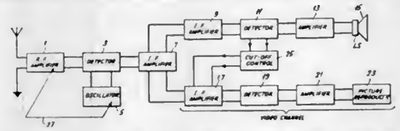
2,285,856
MEANS FOR EVALUATING AND INDICATING THE AVERAGE VALUE OF SUCCESSIVE TIME OBSERVATIONS
Philip Francis Everitt, Ilford, England, assignor of two-thirds to Arthur Joseph Hughes, Chigwell Row, England, and Henry Hughes & Sons, Limited, London, England, a corporation of Great Britain
Application August 3, 1938, Serial No. 222,932
In Great Britain August 9, 1937
6 Claims. (Cl. 235—61)



6. Time averaging mechanism comprising an indicator, a constant speed drive, change-speed gearing, said indicator being driven from said constant speed drive and through said change-speed gearing, said gearing having a plurality of selective speed ratios forming an arithmetical progression and means for selecting the different ratios in arithmetical sequence, only, in conformity with successive time instants to be averaged.

2,285,857
RECEIVER
Horst Hewel, Berlin-Lichterfelde, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application November 11, 1937, Serial No. 173,972
In Germany November 3, 1936
8 Claims. (Cl. 178—5.8)

1. A television receiver comprising means for receiving both video and sound signalling energy, a video channel, a sound channel, means to simultaneously tune both channels, and means connected from the sound channel to the video



channel to render the video channel operative only when sound energy in the sound channel exceeds a predetermined value irrespective of the energy in the video channel.

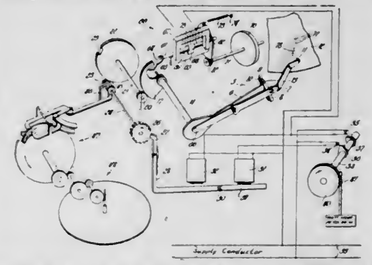
2,285,858
ELECTROLYTIC PROCESS FOR THE PRODUCTION OF QUINONE AND HYDROQUINONE
Sydney Horrobin and Randal George Arthur New, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application May 3, 1939, Serial No. 271,604. In Great Britain May 3, 1938
11 Claims. (Cl. 204—78)

1. A process for the manufacture of p-benzoquinone which comprises subjecting a solution of benzene in an electrolyte to electrolytic oxidation in a cell forming p-benzoquinone, withdrawing from said cell electrolyte containing p-benzoquinone, passing said electrolyte outside said cell in contact with additional benzene thereby extracting said p-benzoquinone and replenishing said electrolyte with benzene, removing benzene containing the extracted p-benzoquinone from contact with said electrolyte, and returning to said cell the electrolyte containing benzene absorbed from the aforesaid contact.

4. In a process for the manufacture of hydroquinone by reduction of p-benzoquinone, the steps which comprise subjecting a solution of benzene in an electrolyte to electrolytic oxidation in a cell forming p-benzoquinone, withdrawing from said cell electrolyte containing p-benzoquinone, passing said electrolyte outside said cell in contact with fresh benzene thereby extracting said p-benzoquinone, forming a solution thereof in said fresh benzene and replenishing said electrolyte with benzene, removing fresh benzene containing the extracted p-benzoquinone entirely in solution from contact with said electrolyte for reduction of the p-benzoquinone entirely in solution in said fresh benzene to hydroquinone, and subjecting benzene absorbed in the electrolyte from said contact step to electrolytic oxidation as aforesaid.

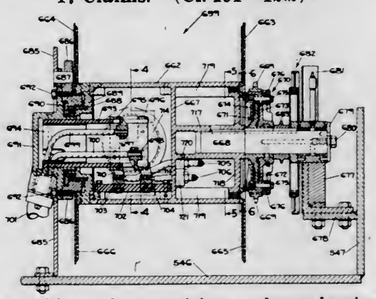
2,285,859
METER
Earl L. Hurt, Deerfield, Ill.
Application February 1, 1939, Serial No. 253,964
13 Claims. (Cl. 234—5.5)

13. Means for recording on a chart driven at a predetermined speed the quantity of commodity supplied during each period of a series of successive periods comprising, in combination, an advanceable member, commodity meter means, resettable cyclically operable driving means operatively interconnecting said advanceable member with said commodity meter means to advance the former from a starting point during each of said successive periods, said driving means including means for advancing said advanceable member in step-by-step manner each step occurring when a definite quantity of commodity has been supplied, trip means operatively connected with said advanceable member for effecting its return to said starting point at the end of each of said successive periods, resetting means operatively connected with said driving means for resetting the same to the same relative operating position at the end of each of said successive periods whereby said advanceable member is advanced during each period only in accordance with the commodity measured during such period, recording means advanced over said chart by said advanceable member in said step-by-step manner, actuating means for moving said



recording means into engagement with said chart at each step of advance movement of said advanceable member so that its movement during said periods is indicated on said chart by lines, one line for each period and each line comprising a number of separate and distinct marks, and means operatively interconnecting said commodity meter means with said actuating means to operate the same during each step that said advanceable member is advanced whereby the quantity of commodity supplied during each of said successive periods is exhibited on said chart by the number of regularly spaced unconnected marks making up each line for each period.

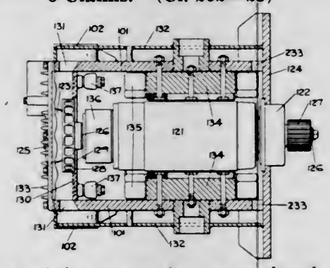
2,285,860
ELECTRICAL CABLE REEL
Robert K. Jeffrey, Columbus, Ohio, and Lewis E. Mitchell, deceased, late of Columbus, Ohio, by Richard D. Nichols, administrator, Columbus, Ohio, assignors to The Jeffrey Manufacturing Company, a corporation of Ohio
Original application May 6, 1938, Serial No. 206,448, now Patent No. 2,263,779, dated November 25, 1941. Divided and this application November 4, 1940, Serial No. 364,322
17 Claims. (Cl. 191—12.2)



1. A cable reel comprising a drum having an interior partition intermediate its ends dividing it into an enclosing portion and an open portion, stationary supporting means for the one end of said drum including a closing cap for said enclosing portion, a stationary insulating cylinder

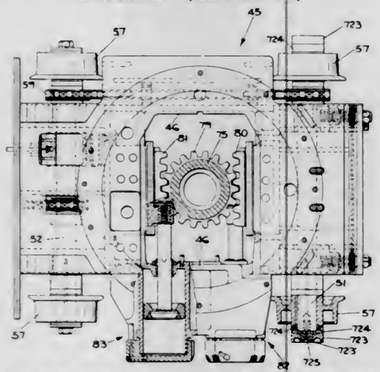
supported by said cap and extending into said enclosing portion, stationary slip rings carried by said cylinder, rotary contacting fingers contacting said slip rings and protected by said enclosing portion, conductors connected to said fingers and extending through said dividing partition, and anchor terminals for said conductors in said open portion.

2,285,861
MINING MACHINE
Robert K. Jeffrey, Columbus, Ohio, and Lewis E. Mitchell, deceased, late of Columbus, Ohio, by Richard D. Nichols, administrator, Columbus, Ohio, assignors to The Jeffrey Manufacturing Company, a corporation of Ohio
Original application May 6, 1938, Serial No. 206,448, now Patent No. 2,263,779, dated November 25, 1941. Divided and this application November 4, 1940, Serial No. 364,323
5 Claims. (Cl. 262—28)



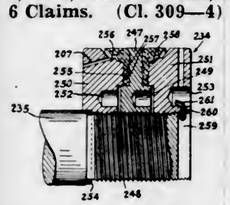
2. In a mining apparatus, an enclosed electric motor comprising an enclosing frame, rotary motor mechanism in said frame, mechanism affording an external air cooling passageway, air inlet and outlet ports leading from the frame interior to said passageway and from the latter to the frame interior, and pivot bearing means extending laterally from said frame and reinforced by being secured to the aforesaid mechanism.

2,285,862
MINING MACHINE
Robert K. Jeffrey, Columbus, Ohio, and Lewis E. Mitchell, deceased, late of Columbus, Ohio, by Richard D. Nichols, administrator, Columbus, Ohio, assignors to The Jeffrey Manufacturing Company, a corporation of Ohio
Original application May 6, 1938, Serial No. 206,448. Divided and this application November 4, 1940, Serial No. 364,326
5 Claims. (Cl. 262—28)



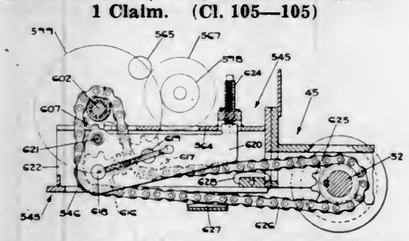
2. In a mining machine, the combination with a truck, traction mechanism for driving said truck, mining mechanism mounted on said truck including means for swinging said mining mechanism in a horizontal plane, and pivoted jack anchorage receiving means carried and supported entirely by an axle of said truck.

2,285,863
HYDRAULIC PISTON MOTOR
Robert K. Jeffrey, Columbus, Ohio, and Lewis E. Mitchell, deceased, late of Columbus, Ohio, by Richard D. Nichols, administrator, Columbus, Ohio, assignors to The Jeffrey Manufacturing Company, a corporation of Ohio
Original application May 6, 1938, Serial No. 206,448, now Patent No. 2,263,779, dated November 25, 1941. Divided and this application November 4, 1940, Serial No. 364,327
6 Claims. (Cl. 309—4)



1. A hydraulic piston motor comprising a cylinder, a piston rod in said cylinder having a threaded portion, a piston on said rod, said piston comprising a central plate, end plates one on each side of said central plate and threaded on said thread portion, wiping washers compressed between said end plates and said central plate, a sealing ring between one of said end plates and said piston rod, and means for locking the other end plate to said rod comprising a cotter key having a portion extending through an opening in said end plate and another portion extending into a groove in said rod.

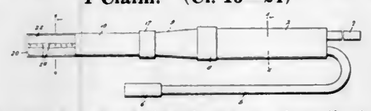
2,285,864
MINING MACHINE
Robert K. Jeffrey, Columbus, Ohio, and Lewis E. Mitchell, deceased, late of Columbus, Ohio, by Richard D. Nichols, administrator, Columbus, Ohio, assignors to The Jeffrey Manufacturing Company, a corporation of Ohio
Original application May 6, 1938, Serial No. 206,448, now Patent No. 2,263,779, dated November 25, 1941. Divided and this application November 4, 1940, Serial No. 364,328
1 Claim. (Cl. 105—105)



In apparatus of the class described, the combination with a truck including a platform having a bottom plate, of an electric motor mounted on said platform bottom plate, wheel means for transporting said truck, a drive axle for said truck, mechanism for driving said truck axle from said motor including a sprocket driven by said motor, a sprocket keyed to said truck axle and an endless chain extending between said

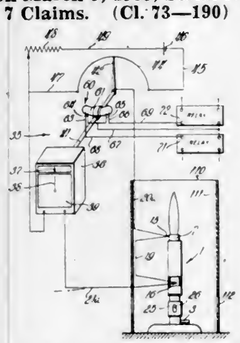
sprockets, both the drive and slack runs of said endless chain being generally L-shaped and extending from said motor driven sprocket downwardly through an opening in said platform bottom plate and then generally horizontally, tension and guiding means for said chain comprising an arm pivoted at a point below said motor driven sprocket and between the runs of said chain, a pair of idler sprockets on said arm, one meshing with each run of said chain, and means supported by said platform bottom plate for swinging said pivoted arm about its pivot to adjust the tension of said chain.

2,285,865
TOOTHBRUSH
Edcar Paul Lowe and Allen V. Lowe, Carlsbad, N. Mex.
Application July 3, 1941, Serial No. 401,008
1 Claim. (Cl. 15—24)



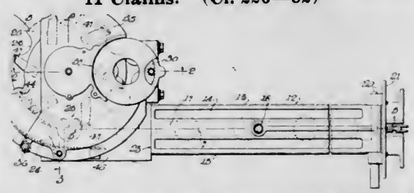
A tooth brush of the character described comprising an elongated handle having a chamber for the reception of water under pressure extending longitudinally therein, a tube mounted on said handle and communicating with the chamber at an intermediate point in said chamber, a shield on one end of said tube, a pair of brushes rotatably mounted in said shield, the shield having a duct therein communicating with the tube and further having spaced ports therein for discharging water on the brushes, a spiral fluid actuated impeller rotatably mounted in the chamber, means including a pair of gear connected parallel shafts on the handle operatively connecting said impeller to the brushes, and means on the handle for controlling the communication between the tube and the chamber.

2,285,866
COMBUSTION DEVICE FOR AND METHOD OF MEASURING FLAME CHARACTERISTICS OF GASES
Mathew G. Markle, Oak Park, Ill.
Application March 9, 1939, Serial No. 260,707
7 Claims. (Cl. 73—190)



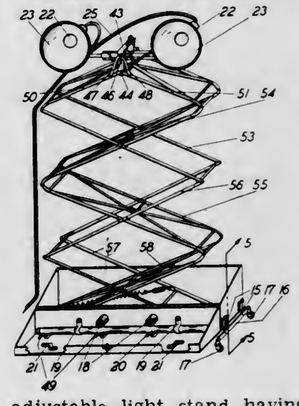
6. Apparatus for comparing combustion characteristics of different combustible fluids and mixtures thereof comprising, a burner including a tube through which the combustible fluid flows to a flame at one end, metallic means at the base of the flame, means effectively heat insulating said metallic means from the other end of said tube so that heat received by said metallic means from said flame is concentrated thereat, and means for measuring the temperature rise of said metallic means due only to heat from said flame.

2,285,867
FILLED CONTAINER STEAMING APPARATUS
Herbert L. Minaker, Syracuse, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application March 15, 1941, Serial No. 383,641
11 Claims. (Cl. 226—82)



1. In filled container closing apparatus, the combination with the rapidly and continuously moving turret of a container closing machine, an elongated tunnel leading toward said turret, means for rapidly and continuously moving filled containers through said tunnel, means for directing steam into and around containers moving through said tunnel, a second means for receiving the filled containers from the tunnel and rapidly and continuously moving them onto the turret to be thereon immediately closed, means for directing steam into container head spaces to sweep air therefrom while the containers are being moved by said second means, and means for feeding covers onto the containers immediately after the air has been swept from the head spaces thereof and immediately prior to ultimate closing of the containers thereby to trap steam in the container head spaces subsequently to cool and condense and create a vacuum therein.

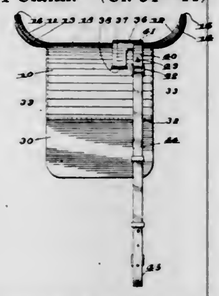
2,285,868
PORTABLE LIGHT STAND
Wolf F. Muller, Glens Falls, N. Y., assignor to General Aniline & Film Corporation, Binghamton, N. Y., a corporation of Delaware
Application August 2, 1940, Serial No. 349,835
4 Claims. (Cl. 240—1.3)



1. An adjustable light stand having a base member, a lighting unit, a vertically adjustable pantograph provided with lazy tong arms and connecting said base and said lighting unit for movement of the latter between extended and

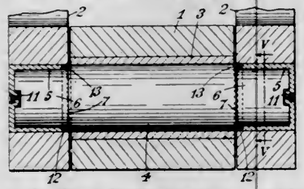
collapsed positions with respect to the base, and two substantially parallel spring means for holding said pantograph at any of its vertical positions, one of said spring means being effective when said lazy tong arms are at a substantial angle with respect to said base, the second spring means being effective only when said arms approach a collapsed position parallel to said base.

2,285,869
SADDLE
Jesse D. Padgitt, Dallas, Tex.
Application September 7, 1940, Serial No. 355,852
1 Claim. (Cl. 54—44)



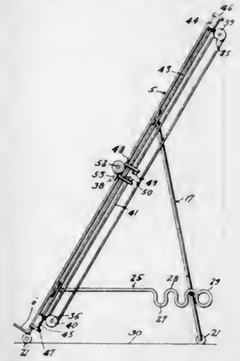
A saddle comprising strips of material connected together along the edges thereof and provided with a common longitudinal opening, the portions of the material at each side of the openings forming a pair of saddle bars, and providing a horizontal seat, said material having portions projecting beyond the ends of the bars and curved abruptly upwardly from the opposite ends of the horizontal seat, the opposite ends of the opening extending into the upwardly curved portions, a reinforcing plate disposed between the curved portions and provided with inwardly extending flanges with a flange located at each side of the opening and projecting downwardly at each side of the saddle, each bar below the lower edge of the flange being provided with a passage, a girth having a wide intermediate portion resting exteriorly on the seat, the free ends of the girth being inserted through the passages and located at the inner faces of the bars, and a stirrup strap depending from each end of the wide portion and disposed exteriorly of the bars.

2,285,870
HINGE ASSEMBLY FOR THE BUCKETS OF DREDGER CHAINS
Thomas Parker, Kuala Lumpur, Federated Malay States
Application July 10, 1940, Serial No. 344,719
In Federated Malay States August 15, 1939
11 Claims. (Cl. 74—255)



1. In a dredger bucket-pin assembly of the kind described in which the pin extends through a central eye in one bucket and has its ends received in and rotatable in relation to spaced outer eyes in the other bucket, the combination of a bucket-pin whereof the ends are reduced in diameter to form journals, bushes which are secured in the outer eyes, embrace the reduced end portions of the pin and are closed at their outer ends, and rings of resilient packing material located in gaps between the open ends of the bushes and the shoulders formed on the pin where it is reduced in diameter, said rings being compressed by the shoulders and by the reduced end portions of the pin.

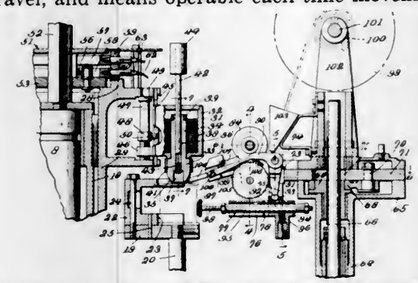
2,285,871
COPYHOLDER
Charles A. Ponsford, Albany, Oreg.
Application July 23, 1940, Serial No. 347,049
1 Claim. (Cl. 120—33)



A copy holder comprising a plate, a leg forming member connected with the rear face of the plate, a guide bar supported from one side edge of the plate and paralleling said side edge but spaced slightly rearwardly from said side edge, a substantially U-shaped carriage having its limbs arranged one above the other and holes in said limbs through which the guide rod passes, a bearing forming part of the front face of the carriage and extending horizontally, a line indicating bar having a crank at one end thereof located in the bearing forming part, whereby the bar will tend to rotate downwardly and rearwardly to hold the bar against the copy on the plate, upper and lower pulleys supported from said side edge of the plate and a belt passing over the pulleys and having its front reach connected with the carriage, whereby rotary movement of one of the pulleys will cause the belt to move the carriage upwardly and downwardly.

2,285,872
SOLDER FEEDER
Paul E. Pearson, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application December 5, 1938, Serial No. 244,085
15 Claims. (Cl. 113—94)

2. In a soldering machine, a can support, a soldering iron juxtaposed with a can-to-be-soldered on said support, and means for feeding a predetermined amount of solder to said iron comprising a solder strip supply, a pair of solder strip feeding rolls, a strip guide having an outlet adjacent said iron for directing solder strip thereto, a slide, a rod having yieldable connection with the slide so that movement of the rod can be arrested without arresting movement of the slide, means for imparting a definite reciprocation to the slide with the rod moving in a path for being intercepted and having its movement arrested by contact with a can on said support, a roll actuator movable with the slide and engageable at times in feeding contact with a feed roll but normally disposed in an ineffective path of travel, and means operable each time movement



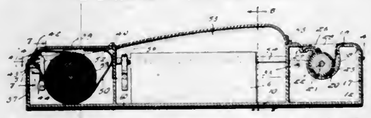
of the rod is arrested by contact with a can and as an incident to that contact to place the actuator in roll engaging position so that on continued movement of the slide said actuator will engage and impart a solder strip feeding movement to the rolls.

2,285,873
SHIPPING CONTAINER
William V. Roberts, Oakland, Calif.
Application October 10, 1938, Serial No. 234,117
11 Claims. (Cl. 229—23)



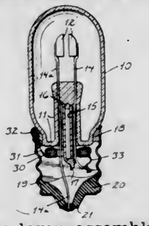
6. In a container, the combination of a blank formed into an outer casing having bottom, sides, ends and extensions on the sides and ends and with the grain in the material running in one direction in the sides; a liner for said casing, scored to form portions to overlie the bottom, sides, and part of the side extensions of the casing, the grain in the material of the liner running in a direction other than parallel to the grain in the adjacent casing portions; a reinforcement set adjacent each end of the casing and enfolded within said casing end, the extensions on the liner extending substantially halfway over the extensions of the sides so that the latter may be folded inwardly, enclosing said liner extensions to form three-ply top sections and being arranged to be secured to the casing end reinforcements by fastening means, and resilient side members disposed between said outer casing and liner sides.

2,285,874
ABRADING DEVICE
Glenn W. Ross, Crockett, Calif.
Application May 22, 1941, Serial No. 394,701
4 Claims. (Cl. 51—187)



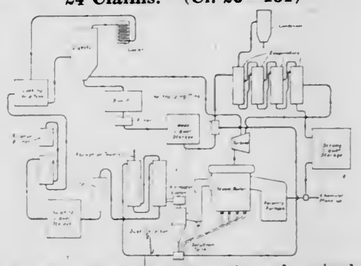
1. An abrading device comprising a body having a flat bottom face, the said body having compartments at the front and rear to accommodate a feed roll of abrasive and an abrasive advancing roller respectively, means in the said compartments for releasably gripping the abrasive material thereat, a cutter in the said forward compartment for severing the used portion of abrasive material from the remainder thereof, means for rotating the abrasive advancing roller, and a compartment intermediate the said end compartments adapted to contain a spare roll of abrasive.

2,285,875
ELECTRIC LAMP ASSEMBLY
Lester L. Stoffel, Lakewood, Ohio, assignor to The Ohio Carbon Company, Cleveland, Ohio, a corporation of Ohio
Application May 24, 1940, Serial No. 337,005
6 Claims. (Cl. 176—122)



1. In an electric lamp assembly, the combination of an envelope, an electrode supporting element within the envelope rising from said base, a carbon resistor in the form of an annulus entirely below the envelope, a metallic base extending about the lower portion of the envelope and projecting beyond it in the form of a housing enclosing said resistor, there being an annular insulating space between the resistor and the base conductors one of which is connected to a terminal of the completed lamp, the other conductor being connected to the carbon resistor, and a conductor extending from the opposite side of the carbon resistor to the other terminal of the lamp.

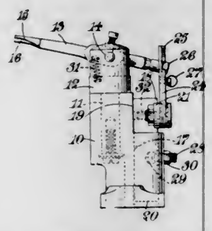
2,285,876
WASTE SULPHITE LIQUOR RECOVERY
George H. Tomlinson, Westmount, Quebec, Canada
Application January 26, 1938, Serial No. 186,938
24 Claims. (Cl. 23—131)



19. The method of recovering chemicals from a relatively pure magnesia base waste sulphite pulp liquor which comprises burning the combustible organic constituents of the liquor in suspension under self-sustaining combustion conditions and yet at a temperature below the fusion temperature of the non-combustible constituents of the liquor to yield a dry unsintered ash containing a high percentage of caustic magnesia, and removing substantially all of the ash produced from the combustion zone by flotation in the gaseous products of combustion in such a

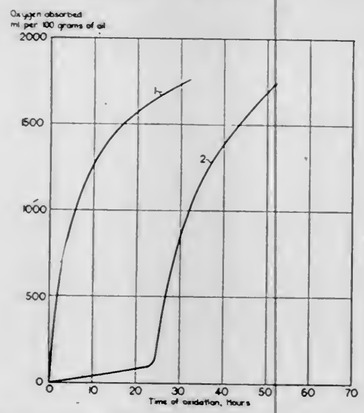
brief period of time that the dwell of the ash within the combustion zone is insufficient to effect dead-burning of the magnesia in the ash.

2,285,877
CIRCULAR KNITTING MACHINE
Carlyle Herbert Wainwright, Leicester, England, assignor to The Bentley Engineering Company Limited, Leicester, England, a British company
Application June 24, 1941, Serial No. 399,516
In Great Britain July 1, 1940
10 Claims. (Cl. 66—47)



1. In or for a circular knitting machine, the combination of a picker movable about two axes transverse to one another, means which serves to rock the picker about one axis and which comprises two arms inclined towards one another to embrace the picker, resilient means to permit and to control movement of the picker about the other axis and means to impart movement to the arms which movement is transmitted by the arms to the picker to rock the latter.

2,285,878
COMPOSITION CONTAINING METAL DEACTIVATORS AND THE METHOD OF PREPARING THE SAME
Ellis R. White, Albany, and Ernest L. Walters, San Francisco, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application June 10, 1940, Serial No. 339,790
11 Claims. (Cl. 252—51)

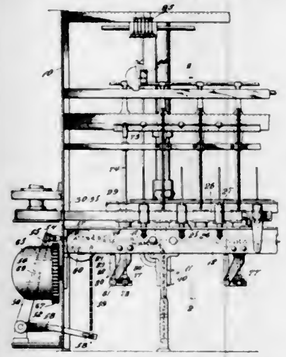


1. An organic substance subject to deterioration thru oxidation, which substance during its useful life comes in contact with an oxidation promoter selected from the group consisting of metallic iron, copper, chromium, lead and compounds of copper, chromium and lead, containing a small amount of a reaction product of an aliphatic poly primary amine having 2 to 12 carbon atoms with two mols of a beta dicarbonyl compound formed by the elimination of water by interacting not more than one of the carbonyl radicals of each molecule of the dicarbonyl compound with a primary amino radical, said beta dicarbonyl compounds having the general formula



wherein R_1, R_2 and R_3 represent radicals selected from the group consisting of hydrogen, alkyl, aryl and aralkyl radicals containing a total of not more than 20 carbon atoms said reaction product being at least slightly soluble in said organic substance and said organic substance being susceptible to the inhibiting action of said reaction product.

2,285,879
SPINNING AND TWISTING FRAME
Albert E. Winslow, New London, Conn., assignor to Atwood Machine Company, a corporation of Connecticut
Application November 22, 1940, Serial No. 366,671
7 Claims. (Cl. 57—75)

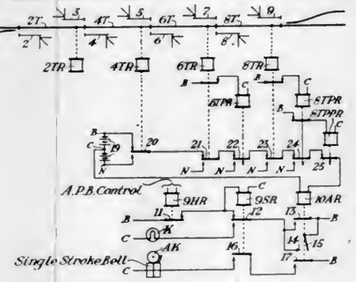


1. In a ring spinning or twisting frame, a ring rail, a bar extending lengthwise of the frame, lift rods attached to the ring rail, flexible means attaching the bar to the lift rods whereby the weight of the ring rail acts through said bar, a bell crank lever having one arm attached to said bar and the other arm attached to a counterbalance whereby the weight of said ring rail and lift rods is substantially supported.

2,285,880
SIGNALING APPARATUS
Earl M. Allen, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application October 16, 1940, Serial No. 361,415
6 Claims. Cl. 246—124)

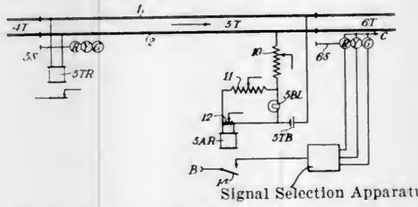
1. In combination with a stretch of railway track divided into a plurality of track sections each provided with a track circuit including a track relay, two indication devices, a control relay for controlling the operation of said two indication devices, and means governed by said track relays for controlling said control relay to cause a first of said indication devices to provide a constant indication as long as a train is on said stretch and to cause the second indication

device to provide a distinctive number of momentary indications as each section is occupied



by the train, the number of momentary indications provided differing for each section.

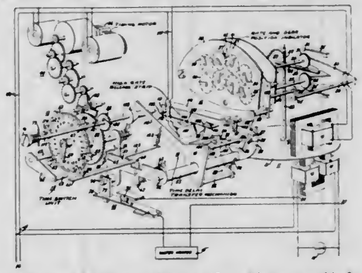
2,285,881
APPROACH CONTROL APPARATUS
Leslie R. Allison, Forest Hills, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application June 11, 1941, Serial No. 397,581
5 Claims. (Cl. 246—41)



1. In combination, a section of railroad track having a pair of track rails over which traffic normally moves in one direction, a track relay connected across the section rails at the entrance end of the section, a track battery, a resistance device and an approach relay at the exit end of the track section, means for connecting the track battery across the section rails in series with the winding of the approach relay, and means for connecting the track battery across the section rails in series with said resistance device so that the resistance device and the approach relay winding are connected in parallel, said resistance device having operating characteristics such that its resistance increases rapidly on an increase in the flow of current therethrough, whereby on entrance of a train into the section and resultant increase in the supply of energy from the track battery to the track rails a relatively large proportion of the increase in current flow occurs through the connection including in series therewith the winding of the approach relay.

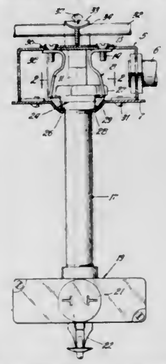
2,285,882
TIME DELAY TRANSFER MECHANISM
Herbert H. Andersen, Beverly, and Donald G. Cameron, Lynn, Mass., assignors to General Electric Company, a corporation of New York
Application November 7, 1939, Serial No. 303,255
12 Claims. (Cl. 171—268)

3. A dual rate meter including a low rate register dial and a high rate register dial, alternative driving connections to said register dials, a time switch unit for normally putting one or the other of said connections into effect according to the time, means for resiliently biasing the apparatus to the low rate connection, a power source for the time switch unit, and means normally energized by the same source and responsive to



power failure for making the time switch unit ineffective to control said driving connection and leaving continuously effective the driving connection to the low rate register dial.

2,285,883
ELECTRICAL FIXTURE
Ernst G. K. Anderson, Chicago, Ill.
Application January 23, 1941, Serial No. 375,606
6 Claims. (Cl. 174—62)

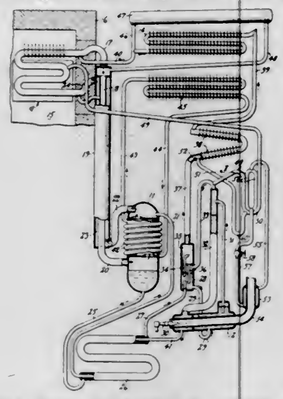


1. An electrical device including in combination a housing unit having a side wall with a conduit and wire receiving aperture therein, and having a top and a bottom, a socket bracket within the unit having a socket portion and a mounting portion, a fixture including a stem extending through said bottom and having a ball joint portion removably secured at one end thereof positioned in said socket portion, a suspending bracket on the outside of the housing unit having a hook portion for suspending the device from a wire or the like, and means extending through the housing unit top and common to each of said brackets for securing said brackets to said housing top.

2,285,884
REFRIGERATION
Carl T. Ashby, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application November 27, 1939, Serial No. 306,258
15 Claims. (Cl. 62—119.5)

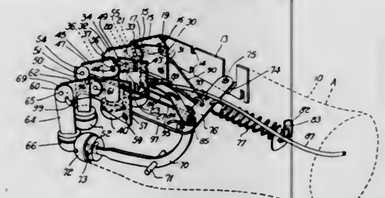
1. A refrigeration system including a source of vaporous fluid, a condenser, a cooling element, a conduit including a liquid trap for conducting vapor from said source to said cooling element, said trap being arranged to receive liquid, means to remove liquid from said trap to permit flow of

vapor through said conduit to said cooling element, and means embodied in said system capable of functioning immediately when sufficient liquid



is removed from said trap to cause all of the vapor from said source to flow through said conduit.

2,285,885
MECHANICAL HAND
Daniel B. Becker, St. Paul, Minn.
Application December 20, 1938, Serial No. 246,815
15 Claims. (Cl. 3—12)

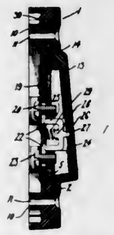


1. In an artificial hand, a hand body, a series of links pivotally secured thereto, individual means for operating each of said links, a pivoted lever in said hand body connected to each of said individual means, coil spring means for holding said lever in one position, rotatable means of greater diameter than said spring through which said spring means extends engaging between convolutions of said coil spring means.

2,285,886
CRYSTALLIZATION OF HYDROXYCARBOXYLIC ACIDS
William W. Beck, Wilmington, and Clement H. Hamblet, Gordon Heights, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 13, 1940, Serial No. 340,242
4 Claims. (Cl. 260—535)

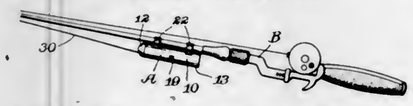
1. A process for the crystallization of hydroxyacetic acid from a crude synthetic reaction product containing it which comprises adding thereto sufficient water to give a solution containing approximately 50% water, heating said solution to a temperature between 65° and 100° C. for from ¼ to 1 hour, filtering therefrom any precipitated material, subjecting the resulting solution to vacuum distillation at a pressure not substantially above 100 mm. until there remains from 0.1 to 5% of free water, cooling and crystallizing the hydroxyacetic acid, and subsequently recovering the resulting crystals from the mother liquor by centrifuging, washing, and drying.

2,285,887
PUSH BUTTON CIRCUIT CLOSER
George B. Benander, Oaklawn, R. I., assignor to Monowatt Electric Corporation, Providence, R. I., a corporation of Connecticut
Application July 10, 1941, Serial No. 401,783
6 Claims. (Cl. 200—159)



1. A circuit closer comprising an elongated housing having a front wall provided with a longitudinally extending opening, an elongated circuit closer button located in said opening and pivoted at one end thereof, a cover plate positioned over the opening at the rear face of said front wall, spaced contact plates on the outer surface of said cover plate, and a bridging contact located between said button and said cover plate and adapted to be projected through the cover plate by pressure applied to the circuit closer button to bridge said contact plates.

2,285,888
BAIT RETAINER
Roy H. Benton, South St. Paul, Minn.
Application January 9, 1941, Serial No. 373,760
7 Claims. (Cl. 43—25)

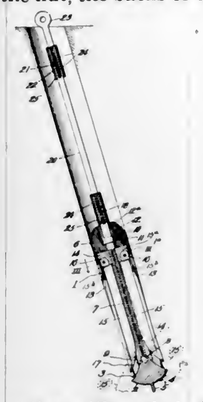


1. A bait retainer comprising an elongated tubular body having closed ends and longitudinally split along a plane substantially parallel to the longitudinal axis of said body, the parts of said body being pivotally connected together along a line parallel to the axis of said tubular body, longitudinally spaced clamp means on said body, and means for securing said parts of said body in tubular relation, one of said closed ends including aperture means in communication with the edge of said closed one end between said body parts.

2,285,889
GROUND ANCHOR OR DEADMAN
Lloyd M. Blanchard, Girard, Kans.
Application July 21, 1941, Serial No. 403,294
4 Claims. (Cl. 189—92)

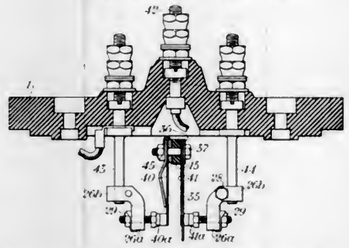
1. An expanding guy anchor comprising a rod provided at one end with means for securing a guy wire, a tubular casing axially receiving one end of the rod and fixed thereto against longitudinal movement, said casing being formed with a series of spaced slots, a portion of the rod within the casing being threaded, a nut within the casing threaded on the rod, and a series of flukes hinged to the nut and moving in and

out of the slots in the casing in response to movement of the nut, the backs of the flukes sub-



stantially coinciding with and closing the casing slots when the flukes are in retracted position.

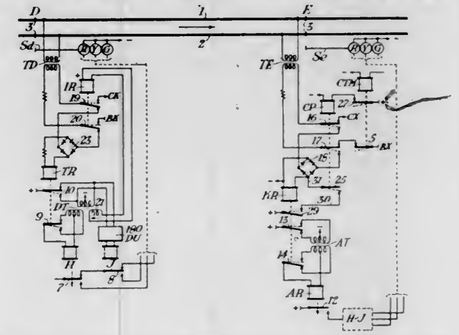
2,285,890
STATIONARY CONTACT
Herman G. Blosser, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application November 16, 1939, Serial No. 304,811
3 Claims. (Cl. 200—166)



1. An adjustable contact structure for cooperation with a movable flexible contact finger comprising a terminal post having a cylindrical end, a bracket having one leg mounted on said end in such manner that said bracket can be slid axially along and rotated to different angular positions relative to said terminal post, means for clamping said bracket in an adjusted position relative to said terminal post, and a screw threaded through another leg of said bracket at right angles to said post and provided at one end with a low resistance contact button which is adjustable radially with respect to said post by means of said screw.

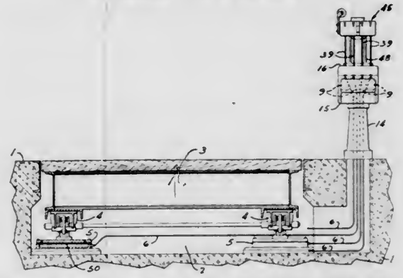
2,285,891
RAILWAY SIGNAL CONTROL CIRCUIT
Herman G. Blosser, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application December 10, 1940, Serial No. 369,439
11 Claims. (Cl. 246—38)

1. In combination, a control circuit comprising a pair of conductors which normally are capable of transmitting energy between given and opposite ends of said circuit but which at times are rendered incapable of such transmission, means including a coding device at the given end of said circuit for supplying said conductors with master code energy in the form of recurring "on" period pulses that are separated by "off" period intervals, means governed by the said pulses of master energy that are received at the opposite end of said circuit for there further supplying said conductors with feed back energy in the form of pulses that recur in step with said master code "off" periods, a detector relay at said given circuit end for distinguishing between said normal or energy transmitting conditions of said circuit conductors and non-transmitting conditions thereof, and means controlled by said coding device for (1) connecting said detector relay with said conductors during each



of said master code "off" periods whereby under said energy transmitting conditions of those conductors the detector relay receives and responds to the said pulses of feed back energy which the conductors then transmit and (2) maintaining said detector relay disconnected from said conductors during each of said master code "on" periods plus the early portion of each following "off" period whereby at all times the detector relay is prevented from receiving either the master energy of said "on" period pulses or the master energy potential that under non-transmitting as well as transmitting conditions of said circuit may be stored in said conductors at the beginning of each of said "off" code periods.

2,285,892
HYDRAULIC WEIGHING SCALE
Robert S. Bohannan, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application October 17, 1939, Serial No. 299,833
8 Claims. (Cl. 265—47)



1. In a weighing scale, in combination, a commodity receiver, a plurality of capsules supporting said commodity receiver, a chamber corresponding to each of said capsules, a conduit connecting each of said capsules to its corresponding chamber, said capsules, conduits and chambers containing liquid to which pressure is applied by

loads on said commodity receiver, a metallic bellows contained in each of said chambers and surrounded by such liquid, whereby each capsule with the conduit, chamber and bellows connected thereto constitutes a separate hydraulic system, a separate lever corresponding to each of such hydraulic systems, each of said levers having a load pivot, means for transmitting force from the bellows of each of such hydraulic systems to the load pivot of its corresponding lever, load counterbalancing mechanism, means connecting each of said levers to said load counterbalancing mechanism, and means for independently adjusting the leverage of each of said levers.

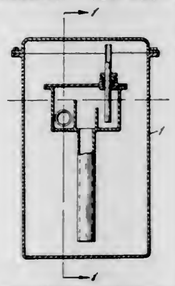
2,285,893

INTAKE MANIFOLD FOR OIL INTERCEPTORS

Edward W. N. Boosey, Detroit, Mich.

Original application December 27, 1940, Serial No. 371,907. Divided and this application July 5, 1941, Serial No. 401,223

7 Claims. (Cl. 182—9)



1. An inlet manifold adapted for positioning within the body of an oil interceptor having an opening in its wall between its upper and lower ends, comprising an open ended hollow member for positioning vertically within the body and having a hub on one side extending through the said opening for connection with an inlet conduit, means within the manifold opposite the discharge end of the inlet conduit separating the manifold into two passageways for a distance above and below the discharge end of the inlet and terminating below the upper open end of the manifold, the upper open end of the manifold being above the normal liquid level of the body.

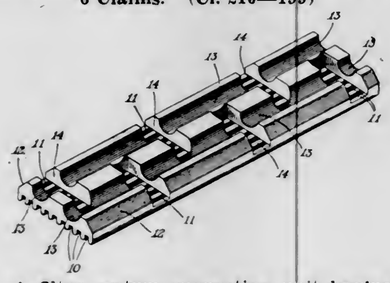
2,285,894

FILTER SEPTUM SUPPORTING MEANS

Arland Ottis Brooks, Kimmswick, Mo., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey

Application December 14, 1940, Serial No. 370,093

6 Claims. (Cl. 210—199)



1. A filter septum supporting unit having on one surface a plurality of lengthwise extending grooves adapted to receive filtrate passing through a filter septum, the opposite surface thereof being channelled along its length and provided with a plurality of crosswise recesses of sufficient depth to establish a communication between the said grooves and channelling said recesses being open at one edge of the filter septum supporting unit and extending only part way across the said unit.

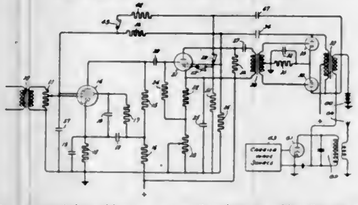
2,285,895

AUTOMATIC AMPLIFICATION CONTROL

George M. Brown, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application June 13, 1939, Serial No. 278,854

6 Claims. (Cl. 179—171)



1. In combination, an electron discharge amplifier having a control electrode and an output, means to rectify alternating potential from said output to produce a control potential, said control potential having a continuous component and an alternating component, means to impress said control potential on said control electrode, and means to supply alternating potential of opposite phase from said output to said control electrode to minimize the effect upon said control electrode of the alternating component of said control potential.

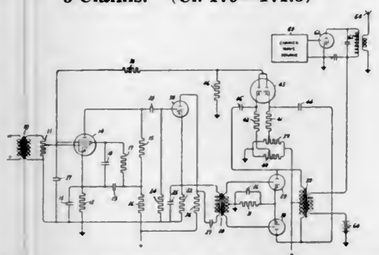
2,285,896

AUTOMATIC AMPLIFICATION CONTROL

George M. Brown, Scotia, N. Y., assignor to General Electric Company, a corporation of New York

Original application June 13, 1939, Serial No. 278,854. Divided and this application July 23, 1941, Serial No. 403,658

5 Claims. (Cl. 179—171.5)



1. In combination, an amplifier having a balanced output circuit, a pair of rectifiers, said rectifiers having a direct current load resistance, separate means to bias each rectifier to a normally non-conductive condition, means to supply alternating potential from the respective opposite sides of said output circuit to a corresponding one of said rectifiers, whereby each rectifier becomes conductive when its respective bias is overcome by said alternating potential and direct current tends to flow in the load resistance, and means to control the amplification of said amplifier in response to the potential on said resistance, the bias supplied to the different rectifiers by said biasing means being proportioned in accordance with the magnitude of alternating voltage on the respective sides of the output circuit.

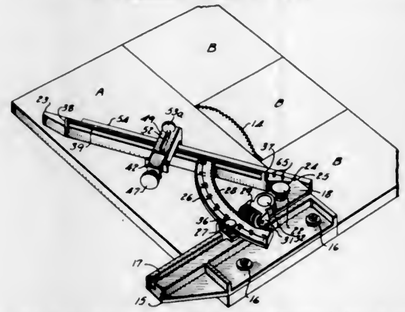
2,285,897

ACUTE ANGLE GAUGE FOR SAW TABLES

Walter E. Campbell, Wichita, Kans.

Application March 31, 1938, Serial No. 199,160

13 Claims. (Cl. 29—69)



1. An angle determining attachment for a cutting machine having a work conveyor movable past a cutter, said attachment comprising, a support detachably associated with the work conveyor, means for clamping said support to the conveyor at various selected distances from the plane of cutting, an arm swingable relative to said support and plane about an axis located near said plane, a segment gauge carried by said arm, means coacting with said gauge and with said support for locking said arm in various positions of adjustment, and means carried by said arm for clamping the work thereto.

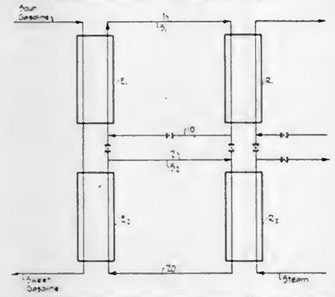
2,285,898

PROCESS FOR EXTRACTION

Albert V. Caselli, Oakland, and Alan C. Nixon, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application June 22, 1940, Serial No. 341,892

8 Claims. (Cl. 196—32)



1. In a regenerative process for extracting a single liquid containing components of different degrees of ease of extraction with at least one substantially immiscible solvent for said components in at least two extraction zones to produce a treated liquid and fat solvent, and wherein fat solvent is regenerated by stripping with a convection medium to produce lean solvent which is returned to said zones to further contact said liquid, the improvement comprising contacting said liquid in a first extraction zone with solvent to remove components relatively easy to extract whereby is produced a first fat solvent, extracting the resulting liquid in a second extraction zone with solvent to remove components relatively difficult to extract whereby is produced a second fat solvent, regenerating said fat solvents by contacting said second fat solvent with a convection medium and subsequently contacting said first fat solvent with said same convection medium.

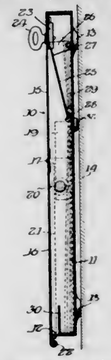
2,285,899

CABINET

John D. Cannon, River Forest, Ill., assignor to Morton Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application October 31, 1940, Serial No. 363,611

5 Claims. (Cl. 312—50)



1. A toilet seat cover cabinet comprising, in combination, a receptacle, a hinged cover therefor, studs on the back wall of the cabinet adapted to extend through the pack, and a hinged member mounted within the cabinet and extending longitudinally thereof, one edge of which engages the outer sheet of the pack to assist in holding the pack in position in the cabinet.

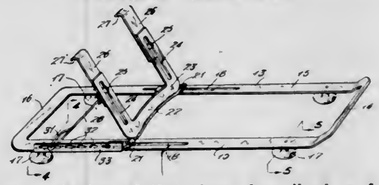
2,285,900

SUPPORTING DEVICE FOR INFANTS

Mary Martin Chapman, Cleveland Heights, Ohio, assignor to Steel Fabricators Co., a corporation of Ohio

Application February 5, 1941, Serial No. 377,597

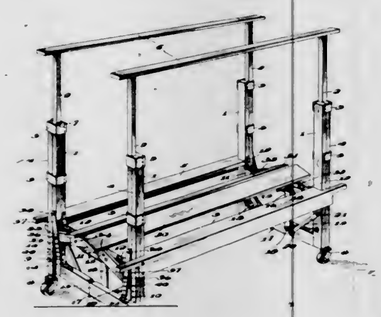
2 Claims. (Cl. 4—185)



1. In a device of the class described, a frame adapted to be placed in a horizontal position within a bathtub, a substantially U-shaped upstanding supporting member pivotally attached to said frame member intermediate the ends thereof and having the open end thereof remote from the frame, means for adjustably positioning said supporting member longitudinally of said frame, means for maintaining said supporting member in a predetermined angled position, a cover for said frame and support, and means at-

tached to the lower surface of the frame for removably securing the device to the surface of the bathtub.

2,285,901
MATERIAL HANDLING SCAFFOLD
Albert J. Chenoweth, Elkins, W. Va.
Application March 30, 1942, Serial No. 436,889
9 Claims. (Cl. 304—2)

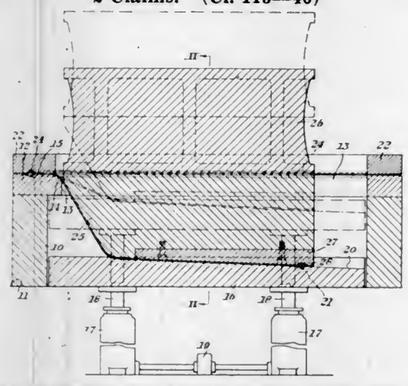


5. A material handling scaffold comprising a pair of platform rails, pairs of pillars extending approximately perpendicularly to said rails, the pillars of the respective pairs being respectively substantially rigidly secured to the respective end portions of the respective rails, a pair of supporting and clamping bars, rods respectively secured to and depending from the respective end portions of said bars, and confining means respectively secured to said respective pillars and extending about said rods respectively and confining the same against lateral movement while permitting their endwise movement relative to the respective pillars, in combination with means serving to maintain all of said pillars in substantially parallel relation to each other, a treadle, and means interposed between said treadle and said rods to cause upward endwise movement of said rods by pressure upon said treadle and to permit the reverse endwise movement of said rods when such pressure is removed.

2,285,902
TREATMENT OF BLACK LIQUOR SOAP AND THE LIKE
Ludwig J. Christmann, Bronxville, N. Y., and Alfred G. Houpt, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application June 8, 1938, Serial No. 212,516
13 Claims. (Cl. 260—97.5)

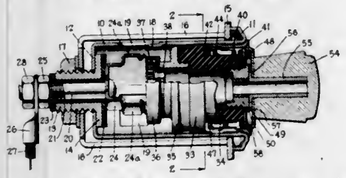
1. The process of separating the fatty acids from the rosin acids of black liquor soap which comprises forming a hot, substantially anhydrous solution of fatty acids, rosin acids and alkali in an organic solvent in which the alkali salts of the fatty acids are soluble hot but not cold and in which the rosin acids are soluble hot and cold, cooling said solution to precipitate salts of the fatty acids, and separating the precipitated salts from the mother liquor, the alkali being present in substantially the amount necessary to neutralize only the fatty acids.

2,285,903
APPARATUS FOR MAKING METALLIC RECEPTACLES
Harold W. Clark, Alliance, Ohio, assignor to The Steel Sanitary Company, Alliance, Ohio, a corporation of Ohio
Original application November 7, 1935, Serial No. 48,664, now Patent No. 2,176,738, dated October 17, 1939. Divided and this application March 8, 1939, Serial No. 260,577
2 Claims. (Cl. 113—46)



1. Apparatus for forming from sheet metal a blank adapted to constitute the bell-end of a bath tub composed of two stampings, i. e., a bell-end and a drain-end, connected by a welded joint circumferentially of the tub, said blank including a rounded, sloping bottom, sides and a rounded, sloping end, the other end being open, said apparatus comprising a draw ring having an elongated opening therein rounded at one end, an elongated punch reciprocable through said ring, the end of said punch cooperating with the rounded end of the ring being similarly rounded and sloping downwardly toward the other end of the punch, the bottom of the punch proper being substantially flat over the greater portion of its length, a shoe removably secured to and covering the greater portion of the flat bottom of the punch proper, said shoe having a bottom face curved transversely of the punch and sloping downward toward said other end thereof, and a yieldable pad below said punch having a matrix therein shaped to receive said shoe snugly with a thickness of metal therebetween and thereby form the rounded, sloping bottom of the blank.

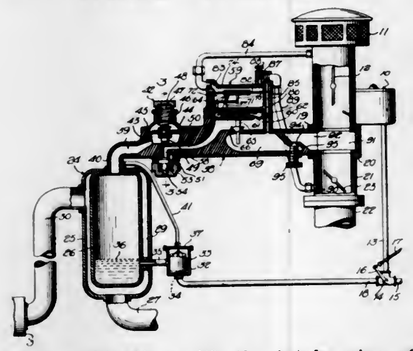
2,285,904
CIGAR LIGHTER
Joseph H. Cohen, Bridgeport, Conn., assignor to Automatic Devices Corporation, Bridgeport, Conn., a corporation of Connecticut
Application February 2, 1938, Serial No. 188,230
12 Claims. (Cl. 219—32)



1. In a cigar lighter, a holder; an igniting unit having a heating element thereon movably mounted in the holder for complete removal for

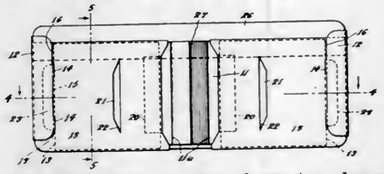
use; and a friction sleeve having the walls thereof formed solely of resilient fingers capable of having a variable outer diameter mounted on the igniting unit to hold the igniting unit in holders having bores of various diameters against accidental removal therefrom.

2,285,905
APPARATUS FOR FORMING FUEL CHARGES FOR INTERNAL COMBUSTION ENGINES
Kenneth M. Cunningham, Decatur, and Antonio Santomartino, Chicago, Ill., assignors to Fuelmaster, Inc., a corporation of Illinois
Application April 9, 1940, Serial No. 328,760
21 Claims. (Cl. 123—133)



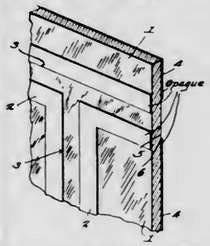
1. In combination with the intake pipe of a gaseous fuel consuming apparatus, in which pipe variations in pressure occur in accordance with fuel demands of the apparatus, a source of volatile normally liquid fuel, and a carburetor having a feed pipe for connection to said source, and connected to said intake pipe to atomize fuel from said source, mix the atomized fuel with air to gasify it, and supply the gasified fuel to said intake pipe, a chamber, conduit means for supplying liquid fuel to said chamber, means for converting said fuel into an air-free gas, a duct connecting said chamber to said intake pipe to supply gasified air-free fuel to said pipe to be mixed with air flowing therethrough, means constructed and arranged for controlling the flow of gaseous fuel through said duct into the intake pipe at varying rates depending upon pressure conditions in said intake pipe, and means for directing liquid fuel from said source to said feed pipe or to said conduit means.

2,285,906
BILLFOLD
Joseph C. Davio, Agawam, Mass.
Application March 24, 1939, Serial No. 263,843
6 Claims. (Cl. 150—38)



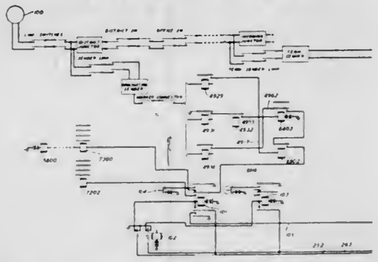
1. In a bill fold of the character described formed of a single piece of flexible material including an outer wall, an inner wall, supplemental sections adjacent to said inner wall, flaps on the said outer wall folded over the said inner wall and sections, extensions on said flaps extending through said sections disposed between said inner wall and sections and tabs on said sections engaging a portion connecting said flaps with said extensions and underlying said flaps.

2,285,907
SIGN
Milton K. Davis, Dallas, Tex.
Application March 18, 1940, Serial No. 324,732
3 Claims. (Cl. 40—133)



1. An illuminated display device including a light-emitting imperforate panel having an opaque portion defining a front character provided with a light-emitting portion spaced inwardly from the edges of the character, and opaque portions spaced from the opaque character and forming a background defining a similar but light-emitting rear character, directly back of the opaque character, the width of the light-emitting character at any point being greater than the width of the light-emitting portion at the corresponding point of the opaque character but less than the overall width of said opaque character at said point, the front and rear characters being proportioned and positioned relative to each other to permit direct passage of unintercepted light rays through the back character and the light emitting portion of the front character and to permit indirect passage of light rays between the opaque portions on the two surfaces thereby to produce a glow surrounding the opaque character and defining it on the opaque background.

2,285,908
SENDER CONTROL SYSTEM
Richard C. Davis and Joseph W. Dehn, Great Neck, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 7, 1940, Serial No. 355,760
10 Claims. (Cl. 179—18)



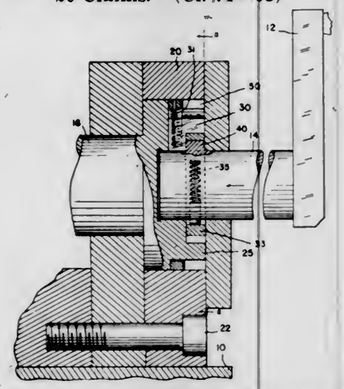
1. In a telephone system, telephone lines, automatic switching equipment, originating control equipments to control said automatic switching equipment, terminating control equipment common to other of said switching equipment, means under the control of a subscriber on one

of said lines for successively operating said control equipments to control said automatic switching equipment to establish a conversational connection between said line and a called line over said automatic switching equipment, and means effective if all of said terminating control equipment is busy to prevent said originating control equipment from directing a connection to the control of said terminating control equipment.

2,285,909
CUTTING AND GRINDING TOOLS
Walther Dawihl, Kohlhasenbruck, near Berlin, Germany, assignor to General Electric Company, a corporation of New York
No Drawing. Application June 8, 1940, Serial No. 339,589. In Germany May 20, 1939
4 Claims. (Cl. 75—136)

1. A tool consisting of diamonds and a metallic binder, characterized by the fact that the metallic binder consists of a chemical compound of cobalt, tungsten and carbon in accordance with the formula Co_3W_3C.

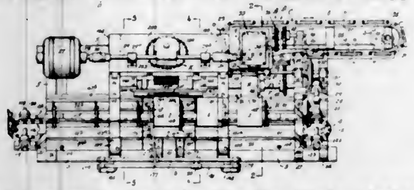
2,285,910
TORQUE CONVERTER
Frank De Bulgne, Ferndale, Mich.
Application May 31, 1941, Serial No. 396,062
20 Claims. (Cl. 74—63)



1. A torque converter of the heliocentric type having in combination with driving and drivable elements, a plurality of drivers reciprocable in and out and having wedge-like cam portions adapted to impart a high torque drive upon rotation of the driving element, a cam portion adapted to occupy an eccentric position to impart such reciprocation, but shiftable to a concentric position in which it is incapable of so reciprocating said drivers, and means responsive to variations in the load imposed upon said drivable element for so shifting said cam portion.

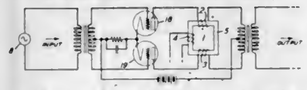
2,285,911
PAPER CUTTING MACHINE
William A. De Hart, Teaneck, N. J., assignor to Kamket Corporation, New York, N. Y., a corporation of New York
Application March 3, 1939, Serial No. 259,593
29 Claims. (Cl. 77—22)

1. In a paper cutting machine, a movable support having a plurality of holders adapted to retain books of sheets, said holders including means to arrange the sheets in each book so that the top and bottom ends of the sheets are arcuately arranged to a predetermined curvature, a work table associated with said movable support



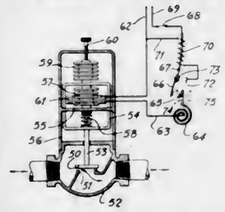
and means for transferring the books of sheets from said holders to said work table without disturbing the arrangement of the sheets.

2,285,912
ELECTRIC UNBALANCE INDICATOR
Robert W. De Monte, Glen Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 7, 1940, Serial No. 364,643
5 Claims. (Cl. 177—311)



1. An indicator for a two-branch balanced electrical system carrying alternating current components for indicating unbalance in the system comprising two current paths one for each branch of the balanced system, a transformer, two separate primary windings wound thereon one for each current path, means connecting said primaries into their respective current paths, a secondary winding on the transformer inductively related to both primaries whereby said secondary will have generated therein a voltage having a frequency which is a harmonic of an alternating current component carried by the system, a frequency selective network connected to said secondary and tuned to said harmonic, and an indicating means connected to the selective network responsive to a change in voltage of said harmonic.

2,285,913
MODULATING CONTROL DEVICE
Robert V. Derrah, Beverly Hills, Calif.
Application January 17, 1940, Serial No. 314,291
4 Claims. (Cl. 236—68)



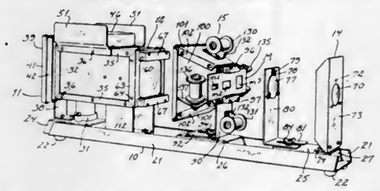
1. In a system for adjusting the position of a member controlling the flow of fluid: a heat motor operatively connected to said member and including an expansible-contractible bellows having substantial volume and containing an expansible-contractible fluid, said heat motor also including an electric heater for supplying heat to said last-named fluid; and means determining the ratio of the periods of energization and de-energization of said heater, comprising a pair of relatively movable cooperating electrical contacts, means for cyclically varying the position of one of said contacts, means for urging the

other contact toward said one of said contacts comprising means responsive to variations in a controlling condition for creating a force which varies in accordance with the departure of the degree of said condition from that desired, and a circuit for energizing said heater directly controlled by said contacts.

2,285,914
OXIDATION OF CYCLOHEXANOL
Otto Drossbach, Ludwigshafen-on-the-Rhine, Germany, assignor to E. I. du Pont de Nemours & Company Inc., Wilmington, Del.
No Drawing. Application December 6, 1940, Serial No. 368,885. In Germany December 28, 1939
1 Claim. (Cl. 260—531)

A process for the oxidation of cyclohexanol which comprises passing through a composition consisting essentially of cyclohexanol and a small quantity of cyclohexanone as a catalyst, at oxidation temperature, a gaseous mixture containing an inert gas and not to exceed 10% oxygen, under a pressure of at least 10 atmospheres, and recovering from the resulting mass the oxidation products comprising adipic acid and cyclohexanone.

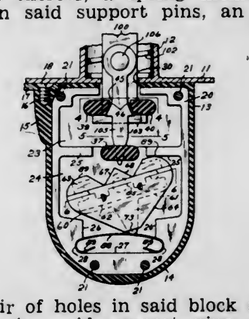
2,285,915
PROJECTING LANTERN
Charles F. Dutton, Rocky River, Ohio
Application November 29, 1941, Serial No. 421,010
5 Claims. (Cl. 88—26)



1. A projection lantern comprising an elongated base, a lamp support mounted for longitudinal adjustment at one end of said base, a lamp carried by said lamp support, a combined lamp housing and condenser lens support comprising a pair of transversely spaced vertically extending flat plates, a top and a bottom plate, said last named plates being provided with longitudinal flanges adapted and arranged to be secured to said side plates to form a rectangular housing, means at one end of said housing to position a condenser lens unit therein, said bottom plate being provided with an opening, to receive said lamp, said top plate being provided with a ventilation opening, a light shield carried by said housing adjacent the opening in said top plate, a light shield carried by said lamp support at one end of said lamp housing, a plate holder at the other end of said housing, and an objective lens unit mounted at the other end of said base for longitudinal movement relative thereto.

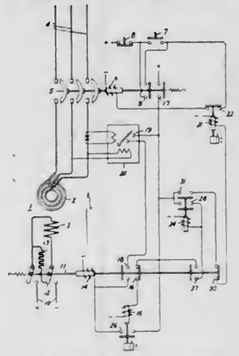
2,285,916
ELECTRIC SWITCH
Harry Eisner, Union Springs, N. Y., assignor to General Products Corporation, Union Springs, N. Y., a corporation of New York
Application February 24, 1941, Serial No. 380,166
1 Claim. (Cl. 200—6)

In a plunger operated single pole double throw switch having a case and three contact points mounted in said case for controlling two circuits, the combination of a pivoted member adapted to assume either one of two positions, a pivot intermediate the ends of said pivoted member mounted in said case, said pivoted member being provided with a pair of contiguous cam surfaces located at either side of said pivot and meeting above said pivot, an arm formed integrally with said pivoted member and extending at right angles thereto from the side away from said cam surfaces, a pair of support pins positioned adjacent the ends of said pivoted member and extending upward at right angles from the surface thereof, a spring member loosely mounted on said support pins, an insulating



block, a pair of holes in said block adapted to slidably receive said support pins, a metallic bridge member fastened to the outer face of said insulating block, said bridge being adapted to close a circuit between one pair of contacts when in one position of the pivoted member and to close a circuit between one of said contacts and the third contact when in the second position of said pivoted member, a second spring member adapted to engage said pivoted member arm and resiliently hold said pivoted member in either one of said positions and a plunger adapted alternately to engage said camming surfaces on successive operations of said plunger to move said pivoted member from one position to the other.

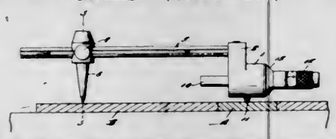
2,285,917
CONTROL SYSTEM FOR SYNCHRONOUS MOTORS
Samuel C. Ewing, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application June 20, 1941, Serial No. 398,890
8 Claims. (Cl. 172—289)



3. In combination, an alternating current circuit, a source of direct current, a synchronous motor having its armature winding connected to said alternating current circuit and its field winding connected to said source, means for dis-

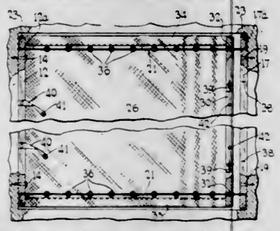
connecting said field winding from said source when said motor falls out of step and subsequently reconnecting said field winding to said source while said armature winding remains connected to said circuit, and means responsive to a predetermined number of disconnections of said field winding from said source within a predetermined time interval for effecting the disconnection of said armature winding from said circuit.

2,285,918
MICROMETER DIVIDER
James F. Farrar, Salem Depot, N. H.
Application May 14, 1941, Serial No. 393,441
2 Claims. (Cl. 33—189)



1. A tool of the class described comprising a stationary body having a bore and a slot in its lower edge communicating with the bore, a spindle passing through the bore of the body and having a part projecting from an end of the body, the end of said part being threaded, a pointed projection depending from the spindle through the slot and forming a pivotal point, a graduated thimble internally threaded and fitting over the threaded part of the spindle, means for rotatably connecting the thimble to the body, a bar having one end connected with an upper portion of the body and a prick punch slidably arranged on the bar and depending therefrom.

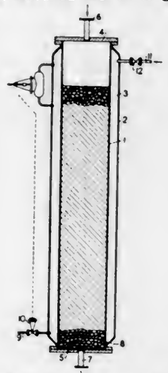
2,285,919
BLACKOUT DEVICE
Henry Feldman, Brooklyn, N. Y.
Application April 9, 1942, Serial No. 438,290
8 Claims. (Cl. 156—10)



1. A blackout device comprising a pair of parallel, coextensive rigid members, guide means interconnecting said pair of members, a third member parallel to said pair of members, and coextensive therewith and disposed therebetween, and slidably mounted on said guide means, a flexible sheet substantially coextensive with said pair of parallel members, interconnecting one of said pair of parallel members with said third member.

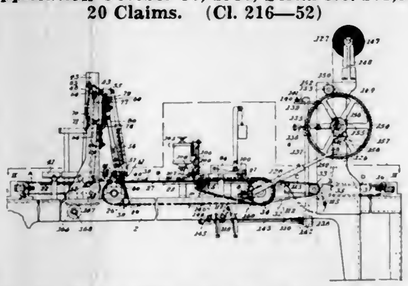
2,285,920
POLYMERIZATION OF OLEFINS WITH PHOSPHORIC ACID CATALYST
William P. Gage, Deer Park, Tex., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application June 5, 1939, Serial No. 277,447
7 Claims. (Cl. 260—683)

1. A process for polymerizing normally gaseous olefins of 3 to 5 carbon atoms which comprises contacting said hydrocarbons with a solid phosphoric acid catalyst at a pressure between 600# and 2000#/sq. in. and a temperature between 425° F. and 500° F. by passing them through an elongated reaction zone filled with said catalyst, at a rate of .25 to .9 gallon of liquid



mixture per pound of catalyst per hour and under conditions to prevent formation of hot spots having temperatures above 500° F. and to prevent clogging, said zone being bounded by cooling surface maintained at a temperature not more than 100° F. below the polymerization temperature maintained in said zone.

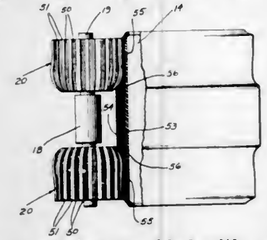
2,285,921
GLASS HANDLING MACHINE
Sylvester F. Grein and Pete G. Magrini, Belle Vernon, Pa., assignors to American Window Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application October 30, 1937, Serial No. 171,860
20 Claims. (Cl. 216—52)



19. In the handling of glass sheets, the steps comprising stacking a plurality of glass sheets on edge on a support, individually moving each glass sheet into horizontal position, moving the sheets individually past a work station, performing work on the sheets at said station, thereafter restacking the sheets on edge automatically and in timed relation to the movement of the sheets past the work station.

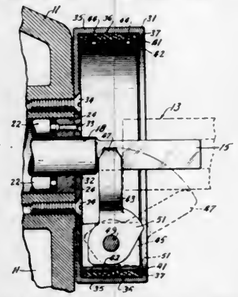
2,285,922
TIRE-BUILDING MACHINERY
Jörgen I. Haase, Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware
Application June 14, 1940, Serial No. 340,508
7 Claims. (Cl. 154—9)

5. In a tire building machine of the class described a device for causing adhesion of the plastic uncured rubber sidewall stock to a pneumatic fabric tire carcass, comprising a rolling means in frictional contact with the tread and sidewall portions of a pneumatic tire casing, said



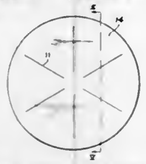
rolling means being provided with resilient rubber ribs projecting radially and capable of patting and brushing the entire width of said sidewall stock into adhesive relationship with a pneumatic tire carcass.

2,285,923
WINCH DRAG MECHANISM
Wilbert W. Haase, Forest Park, Ill., assignor to Wilbert W. Haase Co., Forest Park, Ill., a corporation of Illinois
Application December 9, 1940, Serial No. 369,226
6 Claims. (Cl. 188—82)



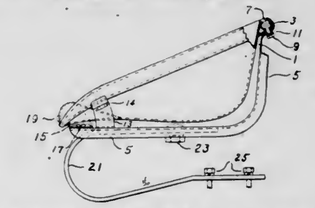
1. For association with a winch device including a rotatable element and an actuating stem coordinated therewith, a drag attachment for controlling operation of said rotatable element acting through and being subject to movement of said actuating stem in one direction only, and manually operable coupling means carried by the drag attachment whereby unrestricted operation of the actuating stem may be permitted upon occasion.

2,285,924
SOUND-DEADENING MATERIAL AND METHOD
Gustaf A. Halfvarson, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 12, 1940, Serial No. 365,244
9 Claims. (Cl. 189—34)



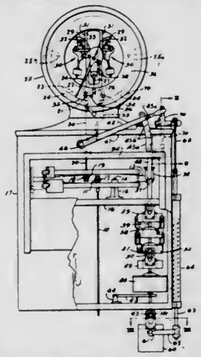
1. A sound-deadening material comprising a sheet of metal having a slit therein, the edges of said slit being rough to provide small projections, the projections on opposite sides of said slit being in tight frictional engagement.

2,285,925
UNIFORM PRESSURE DISTRIBUTING SEAT
Robert G. Handy, Detroit, Mich., assignor to Jane Griswold Handy, Detroit, Mich.
Application June 12, 1940, Serial No. 340,140
5 Claims. (Cl. 155—51)



5. A flexible bucket seat comprising, a substantially U-shaped seat frame of tubular metal open toward the front of the seat, a flexible sheet material secured around the edges to said frame, a channel support member passing horizontally under said seat from front to back and bent upwardly at the back and secured to said U-shaped seat frame in such a manner as to provide a support for the back of the seat frame, means secured to the forward portion of said support and extending laterally to engage and support the frame at opposite sides, and a horn secured to the forward portion of said channel support member and rising to support the flexible sheet material at a central point between the open front ends of the seat frame and suspending the flexible material for tension therebetween by the legs of a seated person.

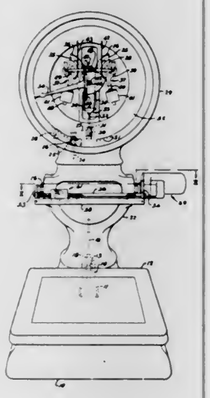
2,285,926
WEIGHING SCALE
Halvor O. Hem, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application August 16, 1939, Serial No. 290,512
3 Claims. (Cl. 265—48)



1. In a device of the class described, in combination, weighing mechanism comprising automatic load counterbalancing mechanism, indicating means cooperating therewith, and manipulative load counterbalancing mechanism, said manipulative load counterbalancing mechanism comprising a series of progressively applicable unit weights and a counterpoise adapted when

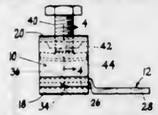
actuated to supplement the counterbalancing action of said series of unit weights, a second indicating means cooperating with said manipulative load counterbalancing means, said second indicating means comprising a flash, numerals of a lower order and of a higher order marked on said flash, said lower order numerals being indicative of the load counterbalancing significance of said unit weights when acting independently, and said higher order of numerals being indicative of the load counterbalancing significance of the unit weights and counterpoise when acting conjointly, each of said numerals of a higher order being positioned between numerals of the lower order, means responsive to the application of said unit weights to move said flash, and means responsive to the actuated and nonactuated condition of said counterpoise to so position said flash that movement thereof in response to the application of said unit weights will respectively display said higher order or said lower order of numerals.

2,285,927
SCALE COUNTERPOISE
Halvor O. Hem, Toledo, Ohio, assignor to Toledo Scale Company, a corporation of New Jersey
Application January 3, 1940, Serial No. 312,197
5 Claims. (Cl. 265—49)



1. In a device of the class described, in combination, a beam graduated to indicate major units of weight, a threaded shaft in fixed relation to said beam, a poise rotatably mounted upon said shaft, an opening extending through said poise at right angles to the longitudinal axis of said shaft, a member mounted in said opening having a detent engageable with the threads of said shaft to prevent translation of said poise along said shaft while permitting helical movement of said poise upon said shaft, said detent being disengageable from said threads to permit said poise to slide along said shaft, and resilient means for urging the detent of said member mounted in said opening into engagement with the threads of said shaft, said poise having a peripheral series of graduations cooperating with a linear index on said graduated beam, said peripheral series of graduations comprising subdivisions of said major units of weight on said graduated beam.

2,285,928
ELECTRICAL CONNECTOR
Helge Jensen, Flushing, N. Y., assignor to Cole Electric Products Co. Inc., Long Island City, N. Y., a corporation of New York
Application May 1, 1939, Serial No. 271,083
1 Claim. (Cl. 173—269)



A connector comprising spaced side walls and spaced end walls defining an opening for the reception of an electrical conductor, said spaced side walls having outwardly bent portions adjacent one of said end walls and defining with the latter a pair of grooves extending longitudinally of said side walls and said one of the end walls, a conductor bar engaging said side walls in said grooves and thereby held in face to face contact relation with said last mentioned end wall, said conductor bar having a hole therein and said last mentioned end wall having a portion projecting into said hole for preventing movement of said bar longitudinally of said side walls, and means adjustably mounted on the other of said end walls and engageable with said electrical conductor for releasably securing said electrical conductor in said opening of the connector in engagement with said bar.

2,285,929
PNEUMATIC TIRE
James J. Jacobson, New York, N. Y.
Application March 20, 1939, Serial No. 262,855
9 Claims. (Cl. 152—330)

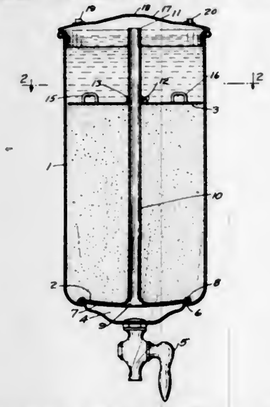


1. A pneumatic tire comprising a carcass carrying a rubber tread member, and a layer of vulcanized tread-rubber which ages more slowly than the rubber of said tread member disposed between said carcass and said tread member adjacent the inner surface of said tread member, said layer of slower aging rubber extending transversely of the tire from a point at one side of the vertical center line of the tire to a point at the opposite side of said center line.

2,285,930
EXTRACTION APPARATUS
Mortimer J. Kahan, New York, N. Y., assignor, by direct and mesne assignments, to Earl Meyer, New York, N. Y.
Application April 21, 1939, Serial No. 269,090
1 Claim. (Cl. 23—272)

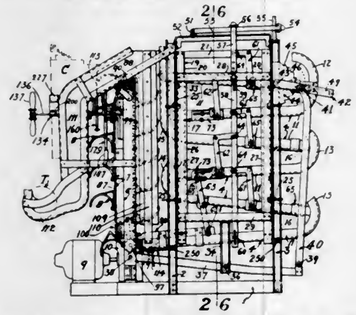
An extraction apparatus comprising a vertical cylindrical container having a circular depression in the bottom thereof surrounded by an annular shelf, a perforated plate resting on said shelf and having a tube secured thereto centrally thereof said tube terminating at the level of the

plate, a fibrous material underneath said plate, a cover plate adapted to be adjustably held in place on said tube, and a cover for the container,



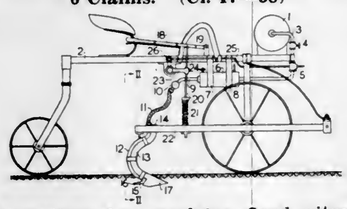
said perforated plate and fibrous material together with said circular depression forming a closed chamber at the bottom of the container.

2,285,931
VENDING MACHINE
John Kruckewitt and John A. Donahoe, Pittsburgh, Pa.
Application October 5, 1939, Serial No. 298,050
10 Claims. (Cl. 312—45)



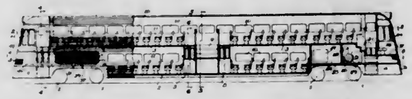
1. In a vending machine including a plurality of superposed and alternately oppositely inclined tracks having open gaps at their converging ends, unitary means to simultaneously vary said gaps.

2,285,932
PROCESS FOR SOIL FERTILIZATION
Floyd H. Leavitt, Burlingame, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application July 26, 1939, Serial No. 286,569
6 Claims. (Cl. 47—58)



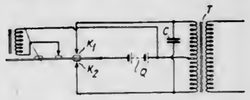
1. A method for supplying fixed nitrogen to soils comprising passing a gas consisting essentially of anhydrous ammonia directly into and under the surface of the soils at a depth of not less than approximately 2 inches and in amounts insufficient to cause burning of vegetation growing therein, said amounts being between approximately 30 and 175 pounds per acre.

2,285,933
DOUBLE DECK RAIL CAR
Joseph Ledwinka and Reuben H. Horton, Philadelphia, Pa., assignors to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 5, 1940, Serial No. 338,887
10 Claims. (Cl. 105—340)



1. A railway car having a wheel truck near each end thereof, said car having therein an elevated floor extending substantially the length of the car and a depressed floor, said elevated floor having a fixed walkway throughout its length the major portions of which constitute elements of a center aisle, said depressed floor being substantially below the level of the tops of the wheels and extending throughout the distance between the trucks, an intermediate floor in each end of the car at a level only slightly above the tops of the wheels and extending substantially throughout the length of the corresponding wheel truck, said car having an entrance at each end, means leading from said entrance to the elevated floor, a stairway within the car, providing access between the elevated and depressed floors, and a central entrance providing direct access to the depressed floor.

2,285,934
MECHANICAL INVERTER
Alfred Leifer and Friedrich Schilgen, Berlin, Germany, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application June 20, 1940, Serial No. 341,499
In Germany December 22, 1938
4 Claims. (Cl. 175—365)

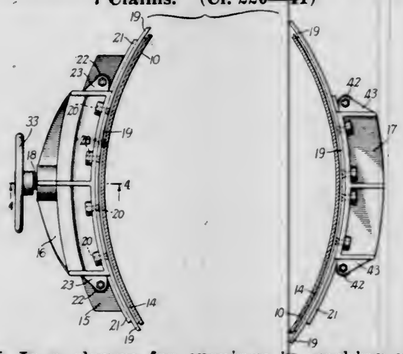


1. In a circuit arrangement for making direct current transformable, a source of direct current the voltage of which varies, a transformer having a primary section and a secondary section, a vibratory circuit interrupter including a vibrating reed, a driving circuit for said reed, said vibrating reed acting upon operation to periodically connect and disconnect the source of direct current across the transformer primary, said transformer being provided with an iron core composed of different grades of iron, said different grades of iron having such dissimilar characteristics that the resultant permeability of the core is high and that inside the range of variations of the voltage of the source of direct current voltage supply the same is substantially constant.

2,285,935
CLOSURE FOR WASHING MACHINE CYLINDERS

Henry C. A. Meyer and Clarence M. Clarke, Syracuse, N. Y., assignors to United States Hoffman Machinery Corporation, New York, N. Y., a corporation of Delaware

Application May 5, 1939, Serial No. 271,858
7 Claims. (Cl. 220—41)

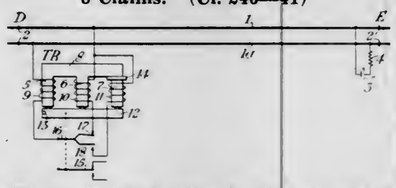


5. In a closure for openings in washing machine cylinders and the like, in combination, a door supporting carriage mounted to move on tracks on the cylinder circumferentially of the cylinder to and from a position overlying such a cylinder opening, a member serving as a counterbalance for said carriage and door movable on said tracks on the side of said cylinder opposite said opening, and means for mutually supporting said carriage and counterbalancing member and for retaining both in operative relation to said tracks comprising straps passing over said cylinder beneath said tracks and connected at their opposite ends to said carriage and said member.

2,285,936
ELECTRICAL RELAY

Benjamin Mishelevich, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application June 21, 1941, Serial No. 399,145
8 Claims. (Cl. 246—41)

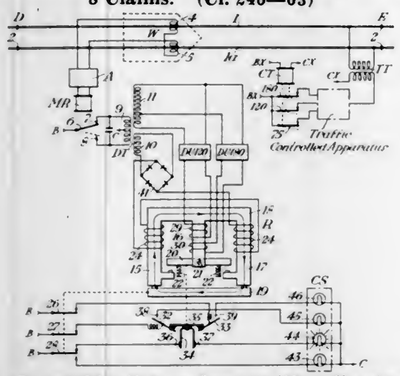


1. In an electrical relay having an armature pivoted about an axis and contacts controlled by the position of said armature, a magnetizable core having two magnetic circuits each including a portion of the armature, one of said circuits having a relatively long effective moment arm about said axis and the other having a shorter effective moment arm, and means controlled by contacts of said armature for causing a resultant flux to circulate in both said circuits or in said other but not said one circuit according as said armature is released or picked up, respectively, whereby to vary the effective moment arms of the magnetic forces exerted on said armature and reduce the torque available to hold the armature up after it has picked up.

2,285,937
ELECTRICAL CONTROL APPARATUS

Benjamin Mishelevich, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application June 27, 1941, Serial No. 399,975
8 Claims. (Cl. 246—63)

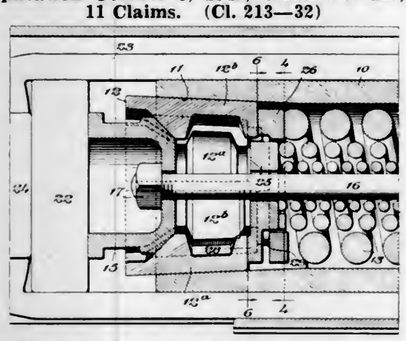


1. In combination, a four-position direct current relay comprising a magnetizable core having an operating winding for causing a neutral armature to move toward and away from said core, a polarizing winding disposed on said core, a polar armature biased to a mid position and caused to operate to one extreme position or the other according as the flux due to current in said polarizing winding has one relative polarity or the other with respect to flux due to current in said operating winding, and circuit means for at times energizing said operating winding but not said polarizing winding and at other times energizing said operating winding and said polarizing winding with current having one relative polarity or the other.

2,285,938
DRAFT GEAR

Robert M. Nelson, Evanston, Ill., assignor to Peerless Equipment Company, Chicago, Ill., a corporation of Delaware

Application October 3, 1941, Serial No. 413,546
11 Claims. (Cl. 213—32)

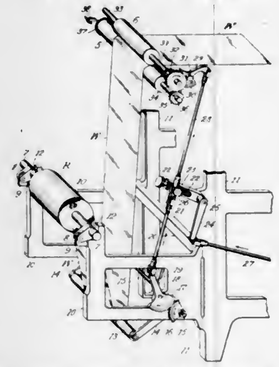


1. A draft gear comprising a casing, an annular series of friction shoes in said casing divided into two groups with the shoes of the respective groups alternating in the series, a wedge element having wedging cooperation with front end portions of said shoes for exerting force rearwardly and outwardly upon said shoes to urge them outwardly into frictional cooperation with said casing, a first cap member engaged with rear end portions of the shoes of one group and not with the shoes of the other group, a second cap member engaged with rear end portions of the shoes of the other group and not with the shoes of the first mentioned group, resilient means reacting from the casing forwardly upon said cap members, means whereby at least one of said cap members is held against rotation relative to said shoes, and interfitting formations on said cap members holding said cap members against rotation relative to each other, whereby each cap member is maintained in cooperative relationship with the shoes of its related group to the exclusion of the shoes of the other group.

2,285,939
WEB FEEDING MECHANISM

Joseph A. Neumair, Hollis, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey

Application December 22, 1939, Serial No. 310,476
8 Claims. (Cl. 242—75)



6. Web supporting and tensioning mechanism comprising a shaft supporting a roll of continuous web material, bearing means provided at either end of said shaft, said bearing means comprising opposed relatively movable members, said members being constructed and arranged to engage and support said shaft exclusively, and also apply thereto a fractional braking force proportional in amount to the weight of the roll supported.

2,285,940
NONFOAMING EMULSIFIABLE OILS

Otto Nörring, Hamburg, Germany, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application April 4, 1940, Serial No. 327,785. In Germany May 20, 1939
12 Claims. (Cl. 252—318)

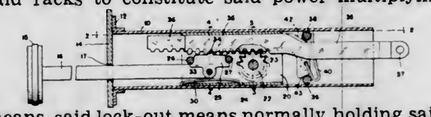
1. The process of reducing the foaming tendency of a stable aqueous emulsion of a water-soluble oil which foams when agitated, comprising adding to said emulsion a product obtained by sulfonation of a fatty oil selected from the group consisting of fish oils and seal oils sufficient substantially to suppress foaming.

2,285,941
CONTROL HEAD

Alexander Oberhoffken, Southfield Township, Oakland County, Mich., assignor to American Forging and Socket Company, Pontiac, Mich., a corporation of Michigan

Application September 18, 1939, Serial No. 295,534
12 Claims. (Cl. 74—516)

1. Operating means for remotely located apparatus, comprising in combination with a support, a carrier movably supported thereby, a handle reciprocable relatively to said support and connected to said carrier to move the same, means including power multiplying means for connecting said carrier to a load, lock-out means normally preventing said power multiplying means from functioning and connecting said carrier and load at a different ratio, means responsive to changes in reactive forces resulting from load variations operative to release said lock-out means and thereby render said power multiplying means operative, to change the driving ratio between the handle and the load, said support being of tubular form, a rack slidable therein, one-way hold means reacting upon said rack and support to oppose movement of the rack in one direction while permitting such movement in the other direction, another rack connected to the load and movable independently of the first mentioned rack, gearing journaled in the carrier and interconnecting said racks to constitute said power multiplying

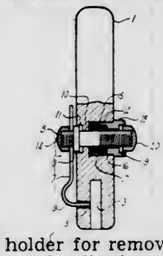


means, said lock-out means normally holding said racks and carrier together for unitary movement, the handle being connected to the lock-out means, said lock-out means also being supported by and movable both with and independently of the carrier, spring means opposing independent movement of said lock-out means and normally maintaining the same in holding position with sufficient force to enable movement of the carrier by effort applied to the lock-out means without moving the lock-out means with relation to said carrier, said lock-out means being movable to released position upon application of sufficient power thereto through the handle when the resistance of the load is sufficient to allow such force to overcome the spring means, portions being arranged to limit movement of the lock-out means with relation to the carrier, whereby when the holding means is released the carrier is movable by the handle to actuate said gearing and move one rack with relation to the other and to said support at a different driving ratio.

2,285,942
DIE LOCKING MECHANISM

Raymond G. Rahe, Brentwood, Pa., assignor to Jas. H. Matthews & Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application May 9, 1941, Serial No. 392,720
2 Claims. (Cl. 101—28)



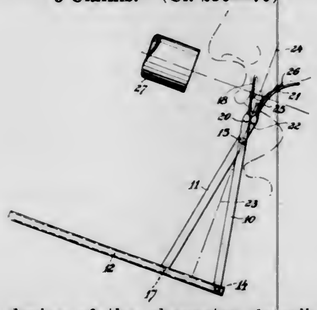
1. In a die holder for removable dies, a spring strap for locking the dies in said holder, a spring bolt on which said strap is mounted, a ring nut having threaded portions interacting with threads on said bolt and holder, said nut having a counterbore and a coil spring disposed therein, whereby upon rotation of the nut to compress the spring the bolt will be initially re-

lieved of spring tension to release the spring strap and upon further movement bodily move the strap out of contact with the dies, and upon rotation of the nut in the opposite direction move the strap into locking engagement with the dies.

2,285,943

DENTAL X-RAY PHOTOGRAPHY

Kurt Riesenfeld, Bronx, N. Y.
Application April 5, 1941, Serial No. 387,007
In Great Britain January 25, 1940
5 Claims. (Cl. 250—70)

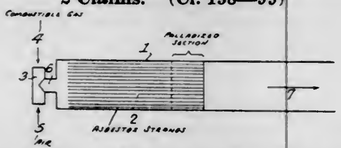


1. A device of the character described comprising two levers pivotally connected together intermediate their length to form two long arms of equal length and two short arms, an aligning lever pivoted to the end of one of said long arms, the free end of the other one of said long arms having a sliding connection with said aligning lever, said short arms being adapted to bear against the outer faces of a tooth.

2,285,944

BURNER FOR GASEOUS FUELS

Richard Rigby, London, England, assignor to The Anglo-Saxon Petroleum Company, Limited, London, England
Application May 17, 1941, Serial No. 393,953
In Great Britain January 13, 1940
2 Claims. (Cl. 158—99)



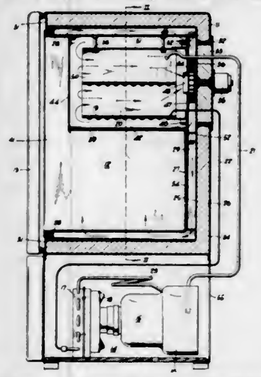
1. In a burner of the class described the combination comprising a tubular body member, means adapted to admit combustible gases and an oxygen containing gas to said tubular body member, gas egress means from said tubular body member and a refractory packing material in said tubular body member, said refractory packing material comprising strands of refractory material loosely packed and disposed longitudinally along a portion of the length of said tubular body member, said refractory strands being palladized towards the gas egress end of said body member whereby combustion of the egress gases is promoted.

2,285,945

REFRIGERATION APPARATUS

Theodore W. Rundell, Indianapolis, Ind., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 20, 1939, Serial No. 295,710
3 Claims. (Cl. 62—102)

1. In refrigeration apparatus, the combination of a refrigerating unit including a cooling element having inner and outer exposed surfaces and means for circulating refrigerant through the cooling element, a refrigerator cabinet including a liner formed to impose but slight impedance to heat flow and having top, bottom, side and rear walls forming a food storage compartment, means for substantially isolating the cooling element from the food storage compartment, a shell surrounding the liner and forming a duct system therewith, air circulating means for forcing air through said duct system in contact with said cooling element to cool the

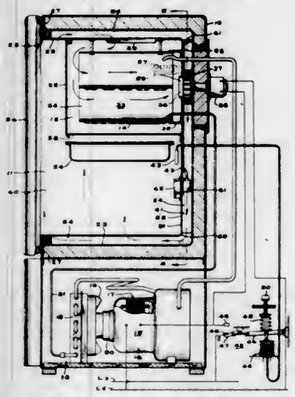


food storage compartment by conduction of heat through said liner, said duct system being so arranged that as air leaves the cooling element it is conveyed in contact with the liner while passing down the back, forwardly under the bottom, up both sides, and over the top of the food liner, whereupon it again contacts the cooling element, said cooling element and duct system being so formed that air passing over the cooling element is conveyed first over the outside surfaces of the cooling element and then over the inside surfaces of the cooling element to the air circulating means.

2,285,946

REFRIGERATION APPARATUS

Milton Kalischer, Longmeadow, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 30, 1939, Serial No. 311,845
14 Claims. (Cl. 62—6)



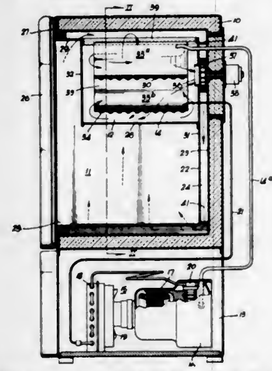
1. In refrigeration apparatus, the combination

of a refrigerator cabinet, a cooling element disposed in the cabinet for cooling and dehumidifying air circulated thereover, a substantially enclosed chamber formed of a material providing a small thermal drop therethrough disposed in the cabinet, a passageway surrounding at least a portion of said chamber for the circulation of said cool and dehumidified air and embodying a relatively high pressure zone and relatively lower pressure zones, said chamber being cooled primarily by the conduction of heat through said material to the air in said passage, whereby a relatively high humidity is maintained in said chamber, means responsive to the humidity in said chamber for establishing a circulation of said dehumidified air from said high-pressure zone of said passage to said chamber and from said chamber to a lower pressure zone of said passage, and means for forcibly effecting said circulation at least part of the time.

2,285,947

REFRIGERATION APPARATUS

Martin G. Sateren, West Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 21, 1940, Serial No. 320,042
2 Claims. (Cl. 62—102)



1. In refrigeration apparatus, the combination of a refrigerating unit including a cooling element and means for circulating refrigerant through the cooling element, a refrigerator cabinet including a liner having rear, bottom, side, and top walls formed of a material having a low thermal drop therethrough and enclosing a food storage compartment, said food storage compartment having an open front means for substantially isolating the cooling element from the food storage compartment, a duct system surrounding said liner, air circulating means for forcing air through said duct system and over said cooling element to cool the food storage compartment primarily by conduction of heat through said liner, said duct system being arranged so that as air leaves the cooling element it is conveyed first into contact with the entire back wall of the liner, then forwardly toward said open front of the food storage compartment under the bottom of the liner, and up both sides thereof in contact with the liner to the top of the liner whereupon it reenters the cooling element, said duct system being formed in part by baffles which extend across the exterior of the top of the rear wall of the liner and downwardly along the exterior of the vertical edges of the rear wall of the liner to a point adjacent the bottom wall of the liner.

2,285,948

TEXTILE-TREATING CHEMICAL AND PROCESS OF MAKING SAME

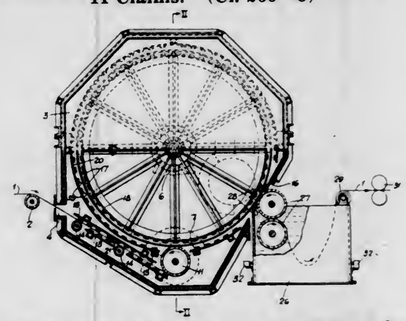
John B. Rust, Verona, N. J., assignor to Ellis-Foster Company, a corporation of New Jersey
No Drawing. Application May 10, 1941, Serial No. 392,937
12 Claims. (Cl. 260—295)

8. The reaction product of a tertiary amine with the compound formed from the reaction of a nitrile containing a chain of more than 9 carbon atoms, an acid chloride containing a chain of more than 9 carbon atoms and formaldehyde.

2,285,949

APPARATUS FOR ANNEALING

Harold Olcott Shepard, Pittsburgh, Pa., assignor to United Engineering and Foundry Company, Pittsburgh, Pa.
Application May 27, 1940, Serial No. 337,372
11 Claims. (Cl. 266—3)



1. Heat treating apparatus comprising a heating chamber, means for carrying thin continuous metal strip therethrough under substantially no tension, means for heating the strip supported by said carrying means to a temperature at which its tensile strength is reduced to almost zero, and a cooling roll cooperating with said carrying means and around which the strip is led away from the carrying means, said roll engaging the strip at the point at which it is delivered from said carrying means.

2,285,950

METHOD OF APPLYING INSECTICIDES

William N. Sullivan, Washington, D. C., and Lyle D. Goodhue, Berwyn, Md.; dedicated to the free use of the People in the Territory of the United States
No Drawing. Application January 10, 1940, Serial No. 313,218
1 Claim. (Cl. 21—58)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

A method of dispersing rotenone, rotenone bearing resins, compounds related to rotenone and the resin from which the rotenone has been removed, which consists in depositing a solution of any of these insecticides onto a surface heated at a temperature between 300° C.–500° C., thereby releasing the insecticides in the form of a smoke.

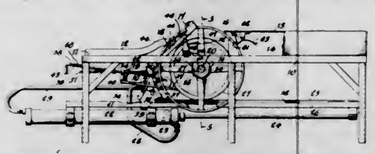
2,285,951

BACON SKINNING MACHINE

Adrian C. Van Hooydonk, Buffalo, N. Y., assignor to John E. Smith's Sons Company, Buffalo, N. Y., a corporation of New York
Application April 5, 1940, Serial No. 328,069
14 Claims. (Cl. 146—130)

1. A bacon skinning machine, comprising a

support, a knife mounted thereon, a bacon carrier mounted on said support in correlation with said knife for movement relative thereto in one direction to propel the bacon past the same for severing the skin therefrom and in the opposite direction to remove the severed skin from the carrier, means disposed in proximity to said carrier for removing such skin therefrom during its movement in the opposite direction, means on



said carrier and facing in the direction of its skin-severing movement for anchoring the leading end of the bacon thereto, said anchoring means facing in a direction opposite to the movement of the carrier during the removal of the skin from the carrier, and motion-transmitting means operatively connected to said carrier for governing its movements at predetermined times in opposite directions.

2,285,952

ELECTRIC HEATER INSULATING MATERIAL

Oliver G. Vogel, Oak Park, Ill., and Louis Navias, Schenectady, N. Y., assignors to Edison General Electric Appliance Company, Inc., Chicago, Ill., a corporation of New York

Application July 29, 1939, Serial No. 287,334
7 Claims. (Cl. 201—64)



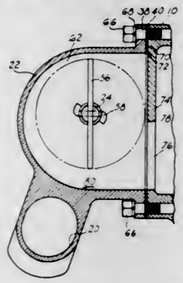
6. In an electric heater provided with a casing and a resistance element in said casing, electrically insulating and heat conducting material for embedding said resistance element consisting of fused magnesium oxide having present before being fused a controlled silica-lime ratio, the proportion of silica being sufficiently great to prevent the presence of free lime in said magnesium oxide after being fused.

2,285,953

WATER PUMP

Nils Erik Wahlberg, Kenosha, Wis., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland

Application October 31, 1938, Serial No. 237,854
12 Claims. (Cl. 123—175)



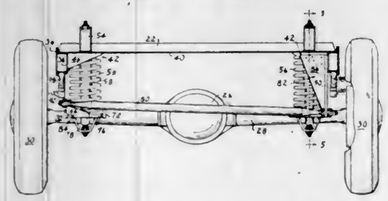
1. In combination with an internal combustion engine, a pump for circulating fluid through the engine comprising a one-piece pump body having an impeller therein adapted to rotate to impel fluid through an open portion of the body against the exterior of said engine, and an aperture in the exterior of said engine offset toward and registering with only the pressure side of said impeller and restricting the open portion of the body.

2,285,954

SPRING SUSPENSION

Nils Erik Wahlberg, Kenosha, Wis., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland

Application January 6, 1940, Serial No. 312,655
4 Claims. (Cl. 280—124)



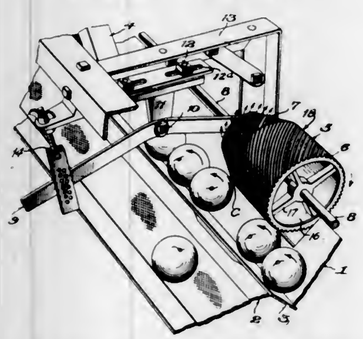
2. In a suspension assembly, a frame having side members, a straight cross member having its ends supported upon said side members and defining an aperture near each end of said cross member, strengthening brackets fastened to the sides of said side members and the bottom of said cross member, said strengthening brackets forming spring abutments defining apertures aligned with said apertures in the ends of said cross member, and means carried by said cross member over said apertures forming an abutment for a shock absorber.

2,285,955

FRUIT SIZING AND GRADING MACHINE

Edwin M. Wayland, Covesville, Va.

Application December 7, 1939, Serial No. 308,073
6 Claims. (Cl. 209—91)



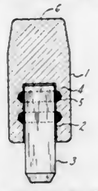
1. In a fruit sizing machine for sizing and grading wet or slippery smooth surfaced fruit, a support, means for moving fruit along the support, a sizing and ejecting roll rotatably mounted in spaced relation to said support, said roll having a cylindrical body portion and a forwardly tapering oversize ejecting portion, the surface of said roll formed with substantially continuous inclined alternate narrow ribs and grooves, the inclination of said ribs and grooves, on at least a major portion of the tapering oversize ejecting portion with respect to the axis of said roll, being less than on the cylindrical body portion.

2,285,956

RESILIENT MOUNTING FOR STAMPS IN STAMP HOLDERS

Emil R. Weber, Allison Park, Pa., assignor to Jas. H. Matthews & Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application May 18, 1940, Serial No. 335,984
1 Claim. (Cl. 279—102)



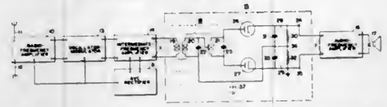
In combination, a stamp holder having a socket end, a plurality of axially spaced circular grooves in the wall of the socket portion thereof, rubber liners having a circular outer contour disposed in said grooves, the inner contour of said liners being flat and of lesser diameter than the inner diameter of the socket, and a stamp disposed in the socket out of contact with the side walls thereof and in intimate engagement with the flat wall of said liners.

2,285,957

BALANCED FREQUENCY DETECTOR

Harold A. Wheeler, Great Neck, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware

Application March 29, 1941, Serial No. 385,801
7 Claims. (Cl. 250—27)



1. A balanced frequency detector comprising, a slope filter including a transformer and means for deriving voltages equal to the sum and difference of voltages developed in the windings of said transformer by a carrier signal applied thereto, a pair of rectifier devices so coupled to said slope filter as to have applied thereto individual ones of said sum and difference voltages, a load network for each of said devices, said load networks having a common junction and said detector having an inherent capacitance to ground tending to render the impedance components of said load networks non-symmetrical relative to said junction, means included in one of said load networks for compensating said inherent capacitance to render said impedance components symmetrical relative to said junction whereby undesired transient amplitude disturbances of said applied carrier signal develop equal voltages of opposite polarities across said load networks with respect to said common junction at the mean frequency of said applied carrier signal, and an output circuit coupled to said load networks for deriving a voltage equal to the difference of the voltages developed across said load networks.

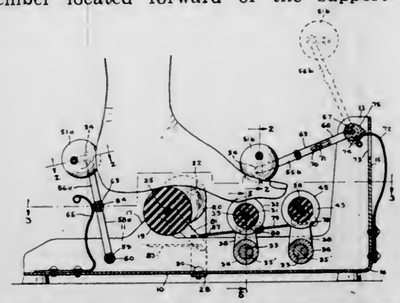
2,285,958

MEANS FOR MASSAGING THE FEET

Edwin M. Wheelock, St. Louis Park, Minn.

Application August 28, 1939, Serial No. 292,274
7 Claims. (Cl. 128—57)

1. A device for massaging the foot, comprising a central movable support adapted to engage the bottom of the foot and permit it to be moved longitudinally thereon, and a movable cylindrical member located forward of the support and



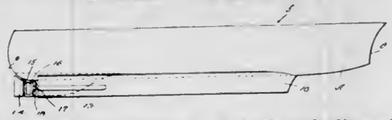
adapted to engage under the metatarsal bones of the foot, said cylinder having an annular rib positioned and adapted to engage beneath the second metatarsal bone.

2,285,959

HULL CONSTRUCTION

Alphonse A. Dubay, Van Buren, Maine

Application October 10, 1939, Serial No. 298,835
1 Claim. (Cl. 114—62)



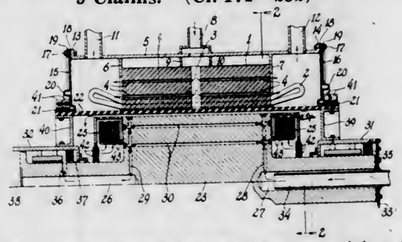
In a boat construction, a hull including sides, a flat bottom, a pointed bow and a rounded stern, said hull having its greatest width forwardly of midship of said hull, parallel spaced keel members providing propeller shaft mountings secured on said bottom and located adjacent to the sides and extending from a point on said hull forwardly of the latter's greatest width to a point adjacent the stern for trapping water to permit the latter to have a buoying effect on the hull for the elevation thereof with respect to the surface of the water, said bottom between said keel members formed to provide a cavity arranged in alignment with the longitudinal axis of the hull and opening outwardly through the stern thereby providing a water spillway, said cavity gradually increasing in depth and width from the forward end to the rear end thereof, and a longitudinally extending plate secured on the bottom within the cavity.

2,285,960

DYNAMOELECTRIC MACHINE

Carl J. Fechheimer, Milwaukee, Wis.

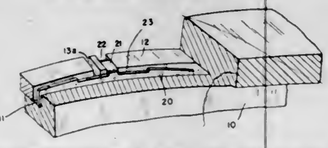
Application August 2, 1940, Serial No. 349,754
5 Claims. (Cl. 171—252)



2. A dynamo-electric machine, comprising the combination with a laminated stator core pro-

vided with a winding, and having longitudinal ducts passing therethrough, and a cylindrical rotor, said rotor being provided with a winding and having at each end thereof a shaft, each shaft provided with a cencentric bore, of a stator housing, an insulating tube concentric with and passing through the air gap between said core and said rotor, means forming with said tube and said stator housing a liquid tight chamber enclosing said stator and said stator winding, said means including a resilient member adapted to compensate for relative dimensional variations between said tube and said stator housing, a plurality of longitudinal ducts in said rotor, connections between said bores and the respective ends of the longitudinal ducts of said rotor, and forming therewith continuous liquid tight conduits between said axial bores, an axial inlet for admitting a cooling liquid to one of said bores and a radial exit for the discharge of said cooling liquid in the other of said bores, said inlet and said exit being arranged to produce a hydraulic head upon a liquid in said conduits, to thereby force said liquid therethrough, inlet and outlet connections for said stator chamber adapted to pass a cooling liquid through said stator chamber and said stator ducts, a bearing housing at each end of said rotor, each including a bearing for the respective shaft, means to form with said bearing housings and said insulating tube an air tight compartment for said rotor, having a pocket at each end thereof, and a stationary cooler in each pocket adapted to receive a stream of cooling fluid to thereby cool the air in said compartments.

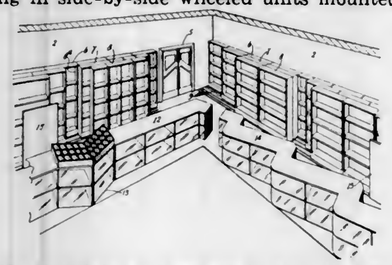
2,285,961
PISTON RING AND SEALING MEANS THEREFOR
Clarence D. Finley, Detroit, Mich.
Application May 9, 1941, Serial No. 392,701
3 Claims. (Cl. 309—47)



2. In combination a step cut piston ring having a groove cut radially near one of its ends and a sealing member therefor consisting of a spring member adapted to be positioned behind the gap in said ring, said member being bent on an arc of shorter radius than that of the ring and having a radially arranged tongue adapted to lie in said groove to fix the ring and member against relative movement, said member extending to the bottom of the ring but spaced from the top thereof at the portion opposite the ring gap.

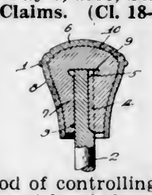
2,285,962
SHOP, BAZAAR, AND THE LIKE
Thomas Edward Foulkes, Ilford, England
Application February 24, 1940, Serial No. 320,562
In Great Britain February 25, 1939
7 Claims. (Cl. 20—1.6)

1. A shop adapted for the retail sale of goods, comprising a floor, surrounding walls bounding such floor, parallel, closely spaced rows of storage shelving on the floor and arranged near to and parallel with some at least of the walls, and service counters arranged in rows parallel with the storage shelving, the rows of shelving adjacent each wall being close together, substantially in contact, with all the shelves open to the front and the contents thereof being to a substantial extent concealed from view by the front row, and the shelving in those rows not nearest the wall being in side-by-side wheeled units mounted on



tracks for lateral movement, and the service counters being spaced from its adjacent shelving so as to leave a single corridor for service at such counters and for access to the shelving, the counters being generally parallel to and closely spaced from said shelving.

2,285,963
KNOB STRUCTURE AND METHOD OF MAKING SAME
Joseph A. Gits and Jules P. Gits, Chicago, Ill.
Application May 6, 1938, Serial No. 206,359
6 Claims. (Cl. 18—59)



1. The method of controlling shrinkage in the molding of an article of thermoplastic material to eliminate shrinkage marks upon the exterior surface of said article which comprises molding all but a thin outer layer of said article in a preliminary molding operation so as to confine a substantial part of the shrinkage to a core thus formed, placing said core in a mold cavity of the size and shape of the finished article, and forming a thin finishing layer of a predetermined thickness about said core by a second molding operation, the thermoplastic material forming said finishing layer being injected under pressure while in a plastic condition, said layer being of a thickness that will cool upon said core without shrinking sufficiently to form marks upon its exterior surface.

5. In a solid article molded of thermoplastic material characterized by its die formed smooth surfaces, a die cast thermoplastic core having substantially the same contour and size as the finished article and comprising a substantially greater part of the finished article, and a die cast thermoplastic layer about said core, said thermoplastic layer being of a thickness insufficient for shrinkage marks to be formed about its exterior surface.

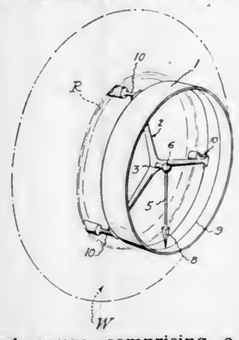
2,285,964
HIGH TENSION INSULATOR
Vitaly Grosse, Berlin-Lichterfelde, Germany, assignor to General Electric Company, a corporation of New York
Application October 23, 1940, Serial No. 362,437
In Germany November 9, 1939
3 Claims. (Cl. 174—179)

1. A high tension strain insulator comprising an insulating tube, strands formed from glass extending longitudinally of and compacted in the bore of said tube to form a unitary strain insu-



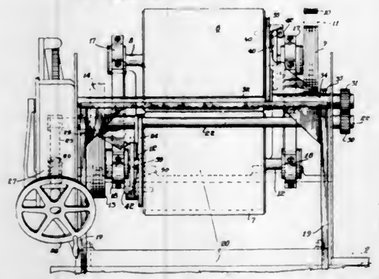
lator member, supporting heads, and axially yielding means connecting said member to said heads.

2,285,965
WHEEL GAUGE
Owen L. Halstead, Middlefield, Ohio
Application October 22, 1941, Serial No. 416,060
8 Claims. (Cl. 33—203)



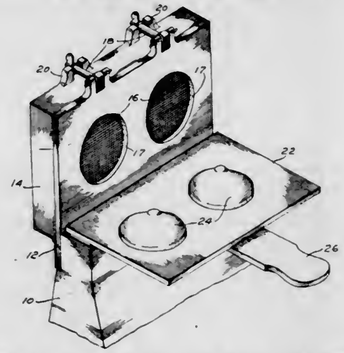
1. A wheel gauge comprising a supporting structure including a pendulum mounting, means for attaching said structure to the rim of a wheel so that the structure rotates with the wheel, a pendulum swiveled to said mounting and incorporating an index device, and an annular scale carried by the supporting structure in concentric relation to the pivotal axis of the pendulum and in operative relation to said device.

2,285,966
ROLL HANDLING APPARATUS
Alfred E. Hamilton, Pittsburgh, Pa.
Application April 16, 1941, Serial No. 388,754
10 Claims. (Cl. 51—262)



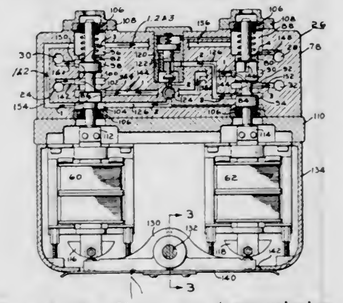
1. Roll handling apparatus for a roll having shaft extensions at its ends that are normally supported in bearings, and also having a radially-extending flange on one extension, in spaced relation to the adjacent end of the roll, which comprises a supporting arm movable towards and from the said one extension and having an open-sided recess for receiving the said extension, when the arm is moved into the space, and means for connecting the arm to the roll and the flange when it is in the last-named position.

2,285,967
METHOD FOR PRODUCTION OF FABRICS
Vernal R. Hardy, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application August 22, 1940, Serial No. 353,692
6 Claims. (Cl. 18—56)



1. The process which comprises cold-drawing, into a three-dimensional article, a flat fabric woven from synthetic linear polyamide yarn which is capable of being cold-drawn.

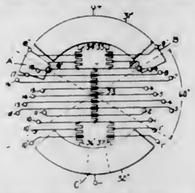
2,285,968
POWER TRANSMISSION
Ferris T. Harrington and Ralph L. Tweedale, Detroit, Mich., assignors to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application September 30, 1940, Serial No. 359,016
2 Claims. (Cl. 60—52)



2. In a hydraulic power transmission system for actuating a shiftable member at rapid traverse and feed rates in opposite directions, a control panel of the type having a pair of two-position valves shiftable to provide four different operating functions, a pair of solenoids for actuating said valves, means responsive to shifting of the member for controlling energization of said solenoids, a removable housing surrounding said solenoids and having an elongated slot in one end, a straight lever pivoted in the housing

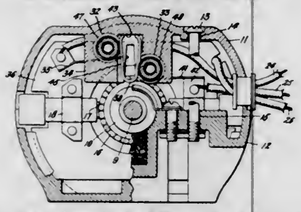
adjacent the slot and adapted when manually oscillated to engage and shift either of the solenoids respectively, and a leaf spring secured to the lever adjacent its pivot and overlapping the edges of the slot, said spring biasing the lever to a neutral position parallel to the end of the housing.

2,285,969
TELEMETRIC SYSTEM
Gerd Hempel, Berlin-Reinickendorf, Germany, assignor to General Electric Company, a corporation of New York
Application May 7, 1941, Serial No. 392,367
In Germany February 6, 1940
5 Claims. (Cl. 177—337)



1. A transmitter for a telemetric system comprising a pair of symmetrically mounted circular contact segments to which a transmitter energizing current source is adapted to be connected, said contact segments lying along the circumference of the same circle, a resistor connected between said segments and subdivided into a plurality of sections by taps, and a plurality of contacts arranged radially staggered in a plurality of circular rows in the circumferential space between said segments, said contacts being connected to said resistor taps.

2,285,970
BRUSH HOLDING DEVICE
Lawrence F. Hemphill, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application October 18, 1941, Serial No. 415,570
4 Claims. (Cl. 171—324)



1. A contact brush holding device including a supporting member, a pair of passages through said supporting member, a transversely extending slot in said supporing member communicating with said passages, a brush holder bushing in each of said passages provided with a groove arranged in registry with said supporting member slot, and means including a substantially U-shaped clip arranged in said slot in engagement with said bushing grooves for retaining said brush holder bushings in position in said passages.

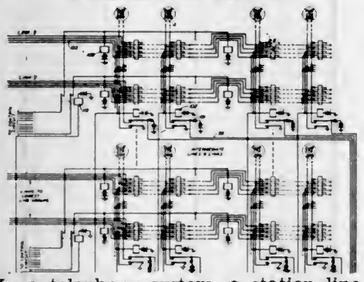
2,285,971
FEED CONTROL MECHANISM
Jacob Lesslie Hill, Dallas, Tex.
Application June 7, 1940, Serial No. 339,399
1 Claim. (Cl. 221—145)

An ore feed control comprising a vertically disposed casing having an opening formed intermediate its ends, a sleeve in the casing, an ore feed pipe extending into the sleeve, a closure cap on the lower end of the casing, a shaft threaded



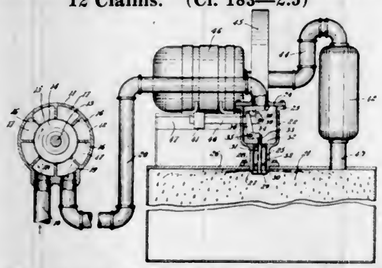
in the cap and rotatably engaged with the sleeve, and serving when rotated to raise or lower the sleeve to control the flow of ore from the lower end thereof into the opening.

2,285,972
TELEPHONE SYSTEM
William H. T. Holden, Woodside, N. Y., Francis A. Hubbard, Maplewood, N. J., and William H. Martin, Chappaqua, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 22, 1940, Serial No. 341,816
8 Claims. (Cl. 179—18)



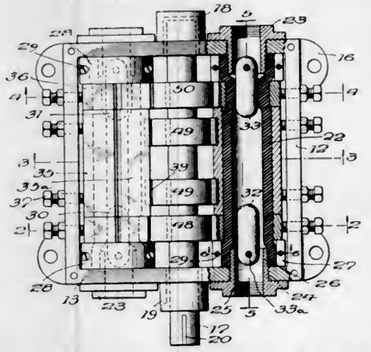
1. In a telephone system, a station line, link circuits, switching means for extending a connection from said station line to any one of said link circuits, an operating magnet for said switching means, said station line extending over normal contacts of said magnet and including a source of current and a resistance, and means responsive to the potential drop through said resistance upon the initiation of a call on said line for controlling said switching means to connect said line to a link circuit.

2,285,973
PRESSURE LIQUID BLENDING APPARATUS AND PROCESS
Robert C. Hopkins, Alliance, Ohio
Application January 22, 1941, Serial No. 375,375
12 Claims. (Cl. 183—2.5)



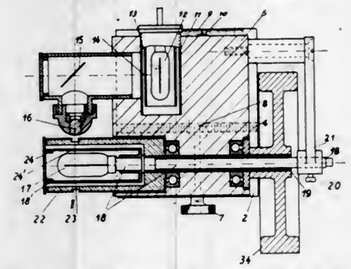
1. The herein described process of blending liquid comprising violently agitating the liquid and subjecting it to milling action while under pressure greater than atmospheric to release gases and air from the liquid in the form of bubbles, and then suddenly lowering the pressure substantially to atmospheric causing the bubbles to burst from internal pressure and producing instantaneous separation of liquid and gases.

2,285,974
PUMP STRUCTURE
Charles J. Huber, West Chester, Pa., assignor to Downingtown Manufacturing Company, Downingtown, Pa., a corporation of Pennsylvania
Application January 8, 1941, Serial No. 373,693
7 Claims. (Cl. 103—148)



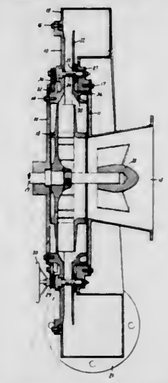
1. In a pump, the combination of a conduit comprising a tube of resilient, compressible material, a body within said tube having a cross-sectional shape conforming generally to that of the opening in said tube, means for compressing a portion of said tube into contact with the periphery of said body and means for compressing another portion of said tube while said first portion is in contact with said body.

2,285,975
SOUND PICKUP FOR SOUND FILM PROJECTORS
Gottfried F. Hubschmid, Reute in Appenzell, Inner Rhodes, Switzerland
Application November 12, 1940, Serial No. 365,382
In Switzerland November 18, 1939
7 Claims. (Cl. 179—100.3)



1. In sound pickups of sound film projectors the combination of photo-cell and turnback roller, comprising a stationary photo-cell having an extended base cap, a hollow rotary shaft enveloping the latter, an inner stationary drum secured to the said base cap and enveloping the said photo-cell and having a stop lens aperture, an outer rotary drum or film turnback roller secured to the said shaft and having a circumferential dovetail groove in the path of light from the film sound trace to the said photo-cell, a cover for the free ends of both said drums secured to the said inner drum, and a transparent agent bridging the bottom of the said groove.

2,285,976
CENTRIFUGAL COMPRESSOR
Robert R. Huitson, Rugby, England, assignor to General Electric Company, a corporation of New York
Application January 27, 1941, Serial No. 376,223
In Great Britain January 15, 1940
1 Claim. (Cl. 230—114)

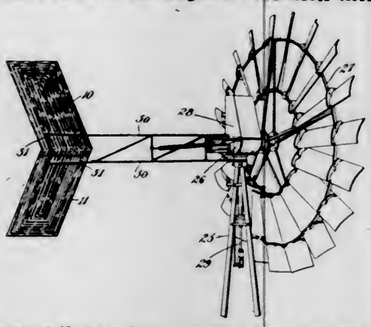


Centrifugal compressor comprising a casing having walls rigidly secured together and forming an impeller chamber and a scroll, an impeller located in the impeller chamber and having blades rigidly secured together, a ring diffuser for conducting fluid from the impeller chamber to the scroll comprising a wall of the casing and a ring disposed within the casing and spaced from said wall, means forming a labyrinth packing between the ring and the casing, and means including a plurality of circumferentially uniformly spaced screws engaging the ring and rotatably supported on the casing, a pinion secured to each screw, a rack rotatably supported on the casing and engaging the pinions and a handwheel secured to one of the screws for adjusting the spacing between the wall and the ring said ring having an inner portion conically shaped and forming together with a corresponding portion of the wall a space with an axial width decreasing in radial direction to assure a smooth flow of fluid from the impeller into the diffuser in the various positions of said ring.

2,285,977
REINFORCED SHEET METAL ARTICLE
Martin L. Hunker, Dover, Ohio, assignor to Reeves Steel and Manufacturing Company, Dover, Ohio, a corporation of Ohio
Application August 9, 1939, Serial No. 289,238
2 Claims. (Cl. 170—56)

1. A sheet metal wind mill vane comprising two substantially planar, sheet metal vane members, each having horizontal upper and lower edges and angularly inclined, parallel side edges, the side edges of one vane member being oppositely disposed to the side edges of the other member, one vane member having an angular extension at one end over-lapping the adjacent end of the other vane member, and a series of nested, substantially U-shape corrugations extending over the entire area of each vane member, the legs of the U-shape corrugations being

angularly inclined and parallel with the side edges of the vane member, there being oppositely angled extensions upon the legs of said U-shape corrugations of the one member extending over the entire area of the angular extension thereon,



the bars of the U-shape corrugations being horizontal and parallel with the upper and lower edges of the vane members, and means for connecting the angular extension of the one vane member to the overlapped end portion of the other vane member.

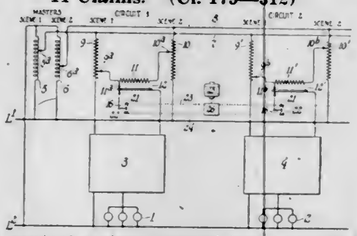
2,285,978

CIRCUIT CONTROL SYSTEM

Richard B. Hunter, Shorewood, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware

Application November 14, 1940, Serial No. 365,636

11 Claims. (Cl. 175—312)



1. A control system, comprising a circuit to be controlled, voltage responsive means for controlling said circuit, a plurality of voltage regulators for presetting different operating values of an electrical condition of said circuit, fading means connected between said voltage regulators and said voltage responsive means and adapted upon operation to increase the effect of one and to simultaneously decrease the effect of another of said regulators upon said voltage responsive means, a plurality of means for operating said fading means, and coupling means for selectively connecting said fading means to any one of said operating means.

2,285,979

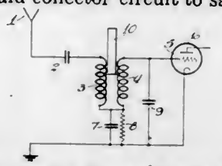
IMAGE SUPPRESSION SYSTEM

Frederick N. Jacob, Chicago, Ill., assignor to Johnson Laboratories, Inc., Chicago, Ill., a corporation of Illinois

Application May 15, 1941, Serial No. 393,538

8 Claims. (Cl. 250—20)

1. Arrangement for the suppression of undesired responses in radio receivers and the like, particularly in superheterodyne receivers, including a signal collector circuit, a resonant circuit tuned to a desired frequency, a mutual inductance between said collector circuit and said resonant circuit, and a capacitance common to both said circuits and in opposing series relation to said mutual inductance with respect to voltages induced from said collector circuit to said resonant



circuit, said mutual inductance and said capacitance being so proportioned that at a frequency different from the frequency to which said resonant circuit is tuned their reactances are substantially equal to one another.

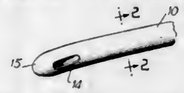
2,285,980

URETERAL CATHETER

Norman Charles Jeckel, Yonkers, N. Y., assignor to American Cystoscope Makers, Inc., New York, N. Y., a corporation of New York

Application July 25, 1939, Serial No. 286,353

7 Claims. (Cl. 128—349)



1. A ureteral catheter comprising a flexible tube composed of braided filaments of a meltable material.

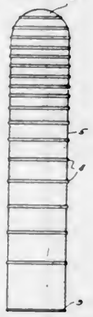
2,285,981

FINGER PROTECTOR

Milton E. Johns, Shreveport, La.

Application June 28, 1941, Serial No. 400,313

2 Claims. (Cl. 2—21)



1. A finger stall of thin rubber, rounded and closed at one end, and a plurality of internal and external annular ribs on the walls of said stall to provide a duplicate internal and external construction when the stall is worn with either surface outermost.

2,285,982

POWER SYSTEM

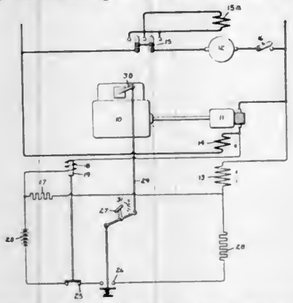
Otto A. Keep, Harborcreek, Pa., assignor to General Electric Company, a corporation of New York

Application September 25, 1941, Serial No. 412,290

17 Claims. (Cl. 290—17)

1. In a power system comprising an internal combustion engine connected to a direct current generator which is arranged to supply current to

an electric motor, the inherent power demand of said generator being greater than the maximum available power output of said engine over a substantial range of generator load operation but less than the maximum available power output of said engine beyond said range, means for abnormally increasing the excitation of said gen-



erator beyond said range of load operation thereby to increase the power demand of said generator to equal the maximum available power output of said engine, and regulating means for controlling said last named means at least until the inherent generator power demand falls within said range.

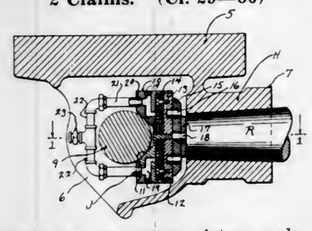
2,285,983

PISTON PULLER

Daniel Allcott Kelly, Milwaukee, Wis., assignor to The Prime Manufacturing Company, Milwaukee, Wis.

Application September 22, 1941, Serial No. 411,863

2 Claims. (Cl. 29—86)



1. A jack for loosening piston rods in cross heads comprising a solid elongated body block having piston chambers adjacent to the opposite ends thereof opening out through the front face of the block, pistons slidably mounted in said chambers, a pressure plate extending longitudinally of the body block connected with said pistons, a center member carried by the pressure plate for engaging the inner end of a piston rod, said block having channels therein communicating with the inner ends of the piston chambers, pressure conducting pipes communicating with the channels, and the inner face of said block being provided with a transversely extending centrally disposed wrist pin receiving bearing groove.

2,285,984

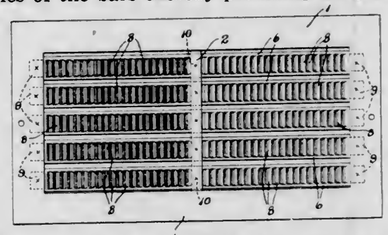
DIRECTIONAL GRILLE

Alfred E. Kietzmann, Holland, Mich., assignor to Hart & Cooley Manufacturing Company, Holland, Mich., a corporation of Delaware

Application June 19, 1940, Serial No. 341,239

7 Claims. (Cl. 98—121)

1. A grille comprising, an open frame, a plurality of flat metal bars lying in parallelism with each other back of and across the opening in said frame with the end portions of the bars lying against the rear sides of the adjacent portions of the frame, said bars having a plurality of vanes struck therefrom at an angle to the planes of the bars thereby providing air passing



openings and vanes to direct the air, and two bars, one lying over the common ends of the first mentioned bars and thereagainst, said bars, the ends of the first bars and the portions of the frame with which the ends of the first bars contact being permanently connected together.

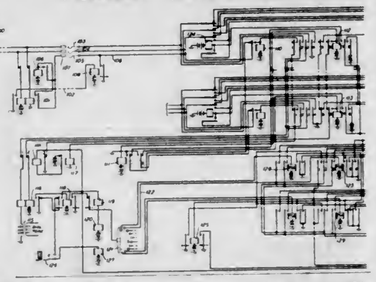
2,285,985

STEP-BY-STEP OPERATED CROSSBAR SWITCH

Gerald V. King, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 28, 1940, Serial No. 372,080

7 Claims. (Cl. 179—18)



1. A selective switch comprising coordinate rows of sets of permanently paired contacts, incoming lines appearing in certain of said rows, outgoing lines appearing in other certain of said rows, said rows of incoming line contacts and said outgoing line contacts being parallel to each other, link circuits appearing in sets of contacts of rows crossing said rows of incoming and outgoing line contacts, a plurality of outgoing lines and a corresponding plurality of links appearing in each set of contacts in the said outgoing line rows, means for directively selecting a row of outgoing line contacts, means for automatically selecting a link and automatic means for establishing a connection from an incoming line through said selected link to an outgoing line in said selected row of outgoing lines.

2,285,986

CIRCUIT INTERRUPTER

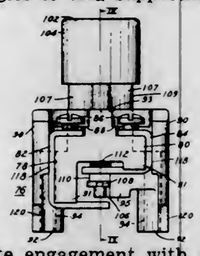
Reese T. Kintzing and Oswald D. von Mehren, Wilkinsburg, and Clarence E. Gary, Forest Hills, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 24, 1940, Serial No. 315,368

13 Claims. (Cl. 200—159)

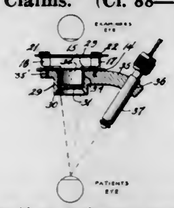
1. In a device of the character described, an

insulating base member including at least one projecting contact supporting portion having angularly related contact supporting outer surfaces located in adjoining angularly related planes, relatively stiff elongated conducting contact means having angularly related sections in a plane substantially parallel to said base and at substantially right angles to said supporting projection
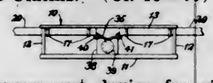


and in intimate engagement with said contact supporting surfaces, means preventing lateral displacement of said conducting contact means outwardly with respect to said base member, and movable contact means supported on said base member for movement into and out of engagement with one of said sections of said elongated contact means.

2,285,987
OPTICAL INSTRUMENT
Emanuel Krimsky, Brooklyn, N. Y.
Application March 25, 1940, Serial No. 325,875
7 Claims. (Cl. 88—20)



1. In combination, a frame member having an opening extending transversely therethrough, a microscope lens positioned in said opening, said member being provided with a second opening extending transversely therethrough, the axes of said openings being directed to form an angle therebetween, said second opening being adapted to detachably support a lamp unit therein whereby the light from the lamp may be projected on an object positioned to one side of the frame member and means mounted on the other side of the frame member for securing the member to an eye glass, said means comprising a clamp element rigidly fixed to the member and another clamp element pivotally secured to the member, said clamp elements being operative to engage opposite sides of the eyeglass.

2,285,988
TOY AMUSEMENT DEVICE FOR SIMULATING AIRCRAFT IN FLIGHT
Harry A. Kroll, Buffalo, N. Y.
Application December 16, 1939, Serial No. 309,648
3 Claims. (Cl. 46—77)



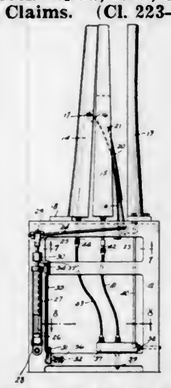
1. A toy amusement device for simulating an aircraft in flight, comprising a miniature aircraft, a single hollow rigid track, means for movably supporting the entire weight of said miniature aircraft on said track, means within and moving along said track for propelling said miniature aircraft along said track including an endless cable within said track and means attached to said cable for engaging with said supporting means, means for supporting the opposite ends of said track in spaced alined relationship including a platform adapted to receive said miniature aircraft, and means mounted on said platform for moving said cable through said track through the spaced opposite ends thereof.

2,285,989
VEHICLE LIFT
Philip J. Kroll, New Orleans, La., assignor to Marjorie Kroll, Cambridge, Mass.
Application April 4, 1941, Serial No. 386,952
27 Claims. (Cl. 254—89)



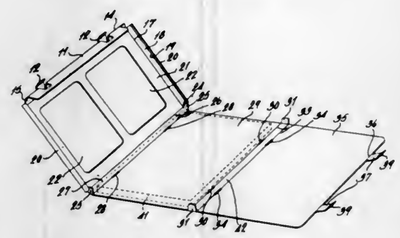
1. Apparatus for converting a "free-wheel" lift, having parallel supporting rails, into a "run-on" lift, comprising a pair of units adapted to be arranged on the supporting rails, one for supporting the front vehicle wheels and the other for supporting the rear vehicle wheels, one of said units having a pair of ramp structures each comprising a pair of members having adjacent ends in cooperative relationship and normally positioned for the passage of a vehicle wheel thereover onto the other unit, said members being pivoted at points remote from said cooperating ends whereby the latter are movable downwardly under the weight of a vehicle thereon under predetermined conditions to chock the vehicle wheel thereon.

2,285,990
GARMENT IRONER
John H. Leef, Minneapolis, Minn.
Application December 12, 1940, Serial No. 369,767
10 Claims. (Cl. 223—73)



1. An ironing device of the kind described involving a pair of outside laterally spaced ironing boots at least one of which is movable toward and from the other, an intermediate boot movable laterally in the space between said outer boots, a base support, and independent means supporting said three boots from said base.

2,285,991
KNOCKDOWN DISPLAY BOX
Sidney Lester, Brooklyn, N. Y., assignor to Patchogue-Plymouth Mills Corporation, New York, N. Y., a corporation of New York
Application October 31, 1940, Serial No. 363,605
2 Claims. (Cl. 206—44)

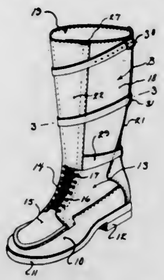


1. A knock-down display box comprising a foldable blank, said blank being formed from a single sheet of stiff pliable material, said blank having a series of pairs of parallel equi-spaced transverse creases and a plurality of pairs of equi-spaced longitudinal creases, said pairs of transverse creases sub-dividing said blank into three sections of substantially the same size and contour, the first section having a framed opening therein defining a window frame, an intermediate section defining the bottom of the box, and a third section defining the box cover, said blank being foldable along said transverse creases to form the cover, top, bottom, and side walls of the display box and the side wall of the window frame, said blank being foldable along said longitudinal creases to form the end walls of the display box and of the window frame, flaps extending outwardly from the free side wall and the free end walls of the window frame, said flaps being foldable inwardly beneath their associated walls to form a display box, a portion of the flap extending from the side wall being cut away to form an independently foldable tongue, elongated slots formed in the transverse parallel creases between the intermediate and third sections of the blank, said elongated slots being aligned to register with said independently foldable tongue, said tongue threadably engaging said slots to hinge the box cover to the adjoining top corner of the window frame, an elongated slot formed in the blank at the line of merger of the bottom of the box and the bottom of the side wall of the window frame, and a second independently foldable tongue extending from the transverse free edge of the box cover in alignment with and for threadably engaging said last mentioned elongated slot to lock said cover member in closed position upon said window frame.

2,285,992
COMPOSITION FOR AND METHOD OF CLARIFYING TURBID AQUEOUS SOLUTIONS
Rowland R. Magill, Lakewood, Ohio, assignor to Peabody Coal Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application April 19, 1940, Serial No. 330,472
7 Claims. (Cl. 210—23)

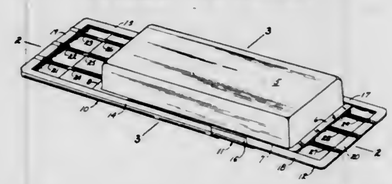
1. A water treating composition comprising a dry mixture including major proportions of pulverulent high volatile coal and minor but substantial proportions of ferric sulfate, sodium silicate and a sodium phosphate.

2,285,993
BOOT
Frank E. Marsh and Charles M. Schetski, Berlin, Wis., assignors of thirty per cent to Albin B. Cujak, Berlin, Wis.
Application June 6, 1940, Serial No. 339,098
1 Claim. (Cl. 36—50)



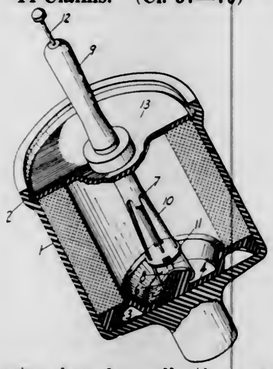
A boot comprising, a bottom foot portion including a vamp and quarters, upper leg extensions formed on the quarters, the adjacent edges of the quarters being provided with lace-receiving eyelets, said eyelets terminating adjacent the ankle, whereby the lacing will effectively hold the foot portion of the boot firmly on the foot or the wearer, leaving the upper leg portions free, a gusset connection extending from the vamp to a point slightly short of the top of the boot and secured to the vamp and to the adjacent edges of the quarters and up the sides of the upper leg portions, a forwardly extending closure flap carried by one upper leg portion beyond the gusset connection adapted to extend over the gusset connection and close the front of the top of the boot and onto the other leg portion above the lacing eyelets, releasable means for holding the closure flap tightly about the boot, and means carried by the forward edge of the flap to prevent collapsing thereof.

2,285,994
COMBINATION CONTAINER AND FIRST AID SPLINT
Earl D. McBride, Oklahoma City, Okla.
Application July 5, 1940, Serial No. 344,091
2 Claims. (Cl. 128—89)



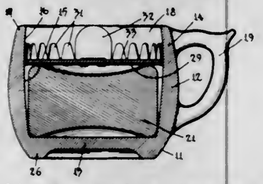
1. In a combination container and first aid splint, a four walled body, and a combination first aid splint and closure for said body which includes a plurality of telescopically nested substantially planar sections; a co-operating tongue and groove arrangement along the top edges of the side walls of said body and along the side edges of said closure for slidably but removably holding the closure on said walled body; and a co-operating tongue and groove arrangement along the top edges of the opposite end walls of said body and along the adjacent ends of two of said closure sections for snugly sealing the opposite ends of said body when the sections are completely telescoped.

2,285,995
SPINNING BOX
Henry J. McDermott, Prospect Park, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application January 2, 1941, Serial No. 372,848
14 Claims. (Cl. 57—76)



1. A spinning box for collecting yarn or the like having a removable bottom member closely fitting the inner wall of the spinning box, means by which the bottom member may be removed from the spinning box with a tool comprising an upright portion on the bottom member having means for guiding the tool into engagement therewith.

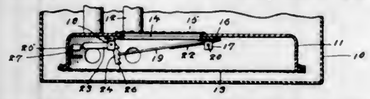
2,285,996
SOAP CAKE RETAINER FOR SHAVING MUGS
Alfred D. McKelvy, Minneapolis, Minn.
Application May 7, 1941, Serial No. 392,219
3 Claims. (Cl. 45—136)



1. In combination with a shaving mug having a bowl formed with an opening at the rim of the bowl of sufficient dimensions to permit of insertion of a soap cake therein, and a soap cake within the bowl, a soap cake retainer comprising a plate-like head of the shape of the mug disposed within the bowl in a position overlying the soap cake and situated inwardly of the rim of the bowl, means at the edge of the head and engaging the inner surface of the bowl for holding the retainer in position, and a plurality of tabs issuing from the edge of the head and distributed about the edge of the head, said tabs extending outwardly of the head and being of a length at least great enough to reach the rim of the mug and forming supports for the retainer and soap when the mug is inverted.

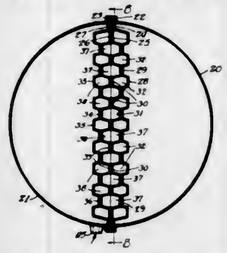
2,285,997
SAFETY OIL PUMP BASE
Thomas L. Mino, Cincinnati, Ohio
Application November 4, 1940, Serial No. 364,329
3 Claims. (Cl. 210—170)

1. In an oil filtering device, a shell open at the bottom and having an auxiliary opening in the top thereof, the said shell having a port in one side thereof, filter screens covering the open bottom portion of the shell and the auxiliary opening in the top thereof, a closure flap pivotally mounted at the inner side of the top of the shell, means disposed to normally hold the flap



in elevated position to close the top auxiliary opening and allow downward movement thereof to open position when the bottom covering screen becomes clogged, and means mounted on the shell releasably engageable with the flap to hold the same in open position.

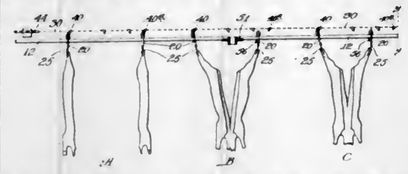
2,285,998
WATER HEATING DEVICE
Willard L. Morrison, Lake Forest, and Robert Edwin Moore, Park Ridge, Ill.
Application April 7, 1939, Serial No. 266,480
6 Claims. (Cl. 257—245)



6. A water heating device comprising a reservoir comprising outer and inner sheets of heat conducting material, the outer sheets having enlarged water receiving receptacles therein, said outer sheets having four inner sheets between them, each of said inner sheets having a series of oppositely projecting hollow ribs, the oppositely projecting ribs of adjacent sheets being in engagement so that the hollows of the associated ribs constitute three passageways extending back and forth across the sheets, a central passageway, and a passageway on each side of the central passageway, an admission opening for admitting hot water being provided at one end of the central passageway and admission openings being provided in the ends of the other two passageways for admitting water to be heated from said receiving receptacles into said two passageways, and discharge means for discharging water from the other ends of the three passageways, the reservoir being provided with means for admitting the water to be heated into the water receiving receptacles of the outer sheets, at the portion thereof opposite the admission openings in said three passageways, so that it must pass along the inner sheets to the said admission openings before entering the passageways formed by said inner sheets.

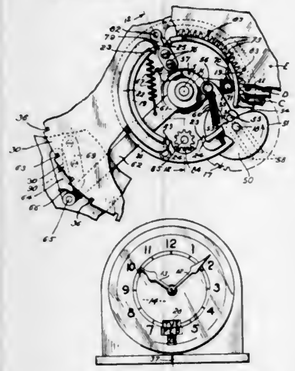
2,285,999
METHOD OF AND APPARATUS FOR SPREADING CARCASSES
Harry L. Murphy, La Grange, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois
Application November 2, 1940, Serial No. 363,999
13 Claims. (Cl. 17—44)

6. Mechanism for spreading a carcass comprising means for suspending each hind leg of the carcass, means for conveying the carcass by the suspending means, and means for spreading



the suspending means in the direction of travel thereof as the carcass advances.

2,286,000
CALENDAR CLOCK
Arthur P. Neyhart, Los Angeles, Calif., assignor to Warren Telechron Company, a corporation of Maine
Application November 1, 1940, Serial No. 363,906
15 Claims. (Cl. 58—5)



1. A calendar clock comprising: a timing mechanism, a dial, superposed indicators operatively connected with said timing mechanism and relatively movable for, respectively, indicating days of the week, days of the month and months of a year and provided with an annularly arranged series of cam segments formed and spaced to correspond, respectively, with the date designations thereon, and automatic operating means actuated by said timing mechanism including a variable stroke reciprocating actuator engageable with selected segments of said indicators once in each twenty-four hours for moving selected indicators to a requisite extent for changing the indicated date, certain segments of said month and said day-of-the-month indicators being of different extent than the remaining segments and adapted to overlap when changing from one month to a succeeding month so as to vary the effectiveness of said actuating means relative to the number of days in the expiring month.

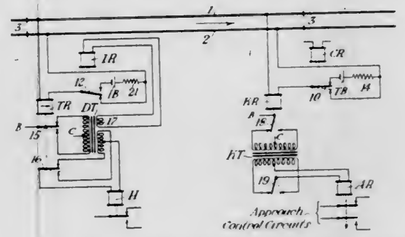
2,286,001
DEVICE TO PREVENT PICKING IN POULTRY
William C. Nichols, Titusville, N. J., and Paul Mazur, New York, N. Y.; said Nichols assignor to said Mazur
Application May 24, 1940, Serial No. 338,352
5 Claims. (Cl. 119—97)

1. A device for preventing feather pulling in fowls comprising an integral wire piece made up into a loop-shaped upper mandible supported section and a transverse straight bit section, said bit section consisting of the two end portions of said wire having bends inwardly at acute angles



from said loop-shaped section, said end portions extending over the width of the loop.

2,286,002
RAILWAY SIGNALING SYSTEM
Frank H. Nicholson, Penn Township, Allegheny County, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application March 27, 1941, Serial No. 385,400
15 Claims. (Cl. 246—38)



1. In a coded railway signaling system, in combination, a section of railroad track having a first and a second track rail over which traffic normally moves in one direction, a code following track relay and an impulse battery located at the entrance end of the section, a code following detector relay and a track battery located at the exit end of the section, continuously operating coding means having a contact effective in one position to connect the detector relay winding across the section rails and effective in another position to connect the track battery across the section rails in series with the detector relay winding, an impulse relay associated with the track relay, means effective on release of the track relay contacts to supply energy to the impulse relay, said impulse relay having a contact effective when released to connect the track relay winding across the section rails and effective when picked up to connect the impulse battery across the section rails in series with the track relay winding, the track relay and detector relay each being of a type which is uniquely responsive to flow of energy in one direction through the winding thereof and each being connected with the track rails in such manner that when energy flows from the first to the second track rail through the winding energy flows through the winding in said one direction, the track battery and impulse battery each being arranged so that when the battery is connected across the track rails the positive terminal thereof is connected to said first track rail, an approach relay, and means governed by a contact of said detector relay for supplying energy to said approach relay.

2,286,003

MOVABLE LINTEL FOR VERTICAL DOORS

Clifford Norton, Summit, and Benjamin Whitehead Tucker, Jr., South Orange, N. J., assignors to Otis Elevator Company, New York, N. Y., a corporation of New Jersey

Original application July 17, 1941, Serial No. 402,796. Divided and this application February 19, 1942, Serial No. 431,546

5 Claims. (Cl. 187—51)



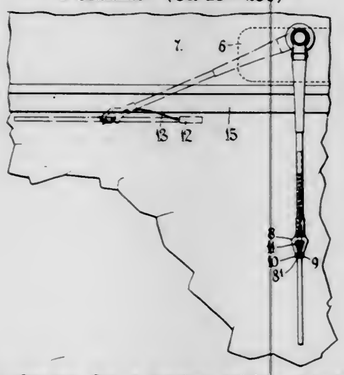
1. In an elevator system in which a vertical bi-parting counterbalanced hatchway door is provided at each of a pair of adjacent floors and in which the lower section of the door for the higher floor in opening overlaps the upper section of the door for the lower floor, an elongated member closing the space between the upper part of said upper section and the hatchway wall at the soffit of the opening for the door for the lower floor when the doors are closed, and means for supporting said member from the bottom of said lower section, said supporting means being yieldable to permit full opening of said lower section in the event said member is brought to a stop by said door for the lower floor before said lower section reaches full open position.

2,286,004

WINDSHIELD CLEANER

William E. O'Shei, London, England

Application May 20, 1939, Serial No. 274,761
In Great Britain May 30, 1938
9 Claims. (Cl. 15—255)



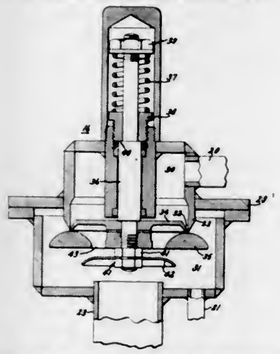
1. A cleaner for a motor vehicle windshield, comprising an actuating shaft journaled in the vehicle structure, a wiper, an actuating arm operable by the shaft, means connecting the wiper to the arm for permitting relative angular displacement laterally of the arm to bring the wiper broadside against the windshield framing, and a spring anchored at one end on the arm and having its opposite end slidable in a guideway on the wiper, the spring and guideway being so arranged primarily to resist such displacement and secondarily to urge the wiper more firmly against the windshield.

2,286,005

LIQUID-GAS SEPARATING ARRANGEMENT

Harold M. Otto, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application January 24, 1941, Serial No. 375,830
5 Claims. (Cl. 183—107)



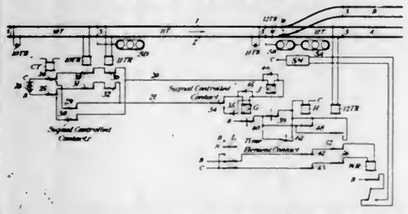
1. Liquid gas separating arrangement comprising a first chamber having an inlet for receiving a mixture of gas and liquid, a second chamber having an outlet for air and another outlet for liquid, a nozzle for discharging mixture from the first chamber into the second chamber, and a plate with a surface curving away from the nozzle and located in the second chamber to receive and collect liquid contained in the mixture, and adjustable means yieldingly supporting the plate.

2,286,006

RAILWAY SIGNALING SYSTEM

John M. Pelikan, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application June 15, 1940, Serial No. 340,792
2 Claims. (Cl. 246—160)



1. In combination, a stretch of railway track containing a switch movable between a normal and a reverse position, an approach track zone, a distant signal governing movement of traffic through said approach zone towards said switch, said distant signal being capable of displaying a clear indication and at least one restrictive indication, a home signal governing movement of trains across said switch, said home signal being capable of displaying a stop indication and at least one proceed indication, a pair of line conductors, means governed by said distant signal and operative only when said signal is displaying a restrictive indication to establish reverse supply connections to supply energy of reverse relative polarity to said line conductors, means governed by traffic conditions in said approach zone and operative only when said zone is vacant to establish normal supply connections to supply energy of normal relative polarity to said line conductors, means for alternately supplying impulses of energy to said normal and reverse supply connections, an approach locking relay operative when deenergized to prevent movement of said switch, a first and a second control relay each having a winding included in series with the circuit of said line conductors, each of said control relays having an asymmetric unit connected across the relay winding to render the relay responsive to energy of one polarity only and to also render the relay slow to release, the unit associated with the first control relay being arranged so that said relay is responsive to energy of reverse relative polarity only and the unit associated with the second control relay being arranged so that said relay is responsive to energy of normal polarity only, a contact movable between a first and a second position, said contact being governed in accordance with the indication displayed by said home signal and occupying said first position when and only when said home signal is displaying its stop indication, said contact being operable when occupying said first position to establish the circuit for connecting the winding of the first control relay in series with said line conductors, said contact being operable when occupying said second position to interrupt the circuit for connecting the winding of the first control relay in series with the line conductors and to connect the line conductors in series with an asymmetric unit arranged to permit energy of normal polarity only to flow in said line conductors, whereby when said contact occupies said second position energy of normal polarity may flow in the circuit of said line conductors and energize said second control relay but flow of energy of reverse relative polarity and resultant short circuiting of the source from which energy is supplied to said line conductors is prevented, a circuit complete when the contacts of both of said control relays are picked up to energize said approach locking relay, and a circuit for also energizing the approach locking relay when the contacts of the second control relay are released provided the contacts of the first control relay are picked up.

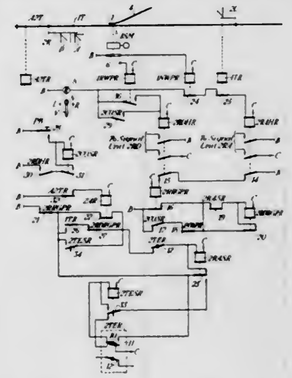
2,286,007

RAILWAY TRAFFIC CONTROLLING APPARATUS

John M. Pelikan, Pittsburgh, Pa., and Robert Mills, Kew Gardens, N. Y., assignors to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application October 5, 1940, Serial No. 359,890
5 Claims. (Cl. 246—160)

1. In combination with a section of railway track provided with a track circuit including a track relay and having a signal indicating proceed, slow speed or stop for governing the movement of traffic over the section, signal control means for controlling said signal to indicate proceed or slow speed in accordance with traffic conditions on said section, an approach relay operated to an active condition by traffic approaching the section, a locking relay normally energized when said signal indicates stop and said approach relay is inactve, a repeater relay having a pick-up circuit governed by said locking relay and a stick circuit governed by said signal control means and conditioned to be effective to hold said repeater relay energized over its own front contact at all times except when said signal indicates slow speed, and a restoring circuit for said locking relay including in series a back contact of said track relay and a front contact of said repeater relay.

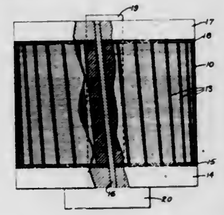


2,286,008

MAGNETIC CORE FOR ELECTRICAL DEVICES AND METHOD OF MAKING THE SAME

Ross M. Pfalzgraff, Marblehead, Mass., assignor to General Electric Company, a corporation of New York

Application August 2, 1940, Serial No. 349,942
5 Claims. (Cl. 172—120)



1. A member for an electrical device having an element with winding slots formed therein, said element comprising a plurality of laminations of magnetic material, a winding in said winding slots, and means including a relatively thin low electrical resistance layer bond between adjacent side surfaces of said laminations for securing together said laminations and for increasing the eddy-current losses therein.

2,286,009

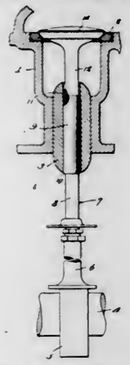
VALVE

Frank Montgomery Powe, Mobile, Ala., assignor of one-fourth to Richard H. Coffin, Mobile, Ala.

Application December 26, 1940, Serial No. 371,815
2 Claims. (Cl. 123—188)

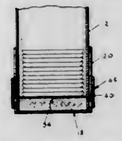
1. Improvements in poppet valve structure for internal combustion engines, comprising a valve stem having reduced portions connected by a

diametrically enlarged intermediate portion, the ends of the intermediate portion being convexed



longitudinally and transversely of the stem, and a valve carried by one of the reduced portions.

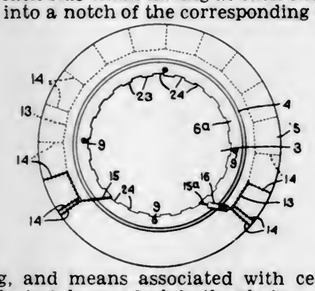
2,286,010
SUPPLY CONTAINER FOR PHOTOGRAPHIC PLATES
William Rabkin, Kew Gardens, N. Y.
Application April 2, 1941, Serial No. 386,406
In Canada March 14, 1941
10 Claims. (Cl. 95—19)



1. A package of photographic plates constructed and arranged to be mounted on a base and to form therewith a plate-supply magazine in a photographic machine, said package comprising a light-proof container having a stack of said plates therein, said container having an opening at one end thereof, a light-proof closure for said open end of the container, said closure being removable to permit said open end of the container to register with the base when said container is mounted thereon, said closure having parts overlying the opposite sides of said container near said end thereof, and means for temporarily supporting said plates in stacked relation in said container when said closure is removed comprising a removable member carried by and extending across the container near said end thereof and terminating in end portions engaged by the inner surfaces, respectively, of said parts of the closure when the latter is attached to the container.

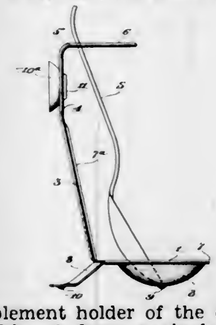
2,286,011
TIRE CHAIN APPLIANCE
Herbert N. Ridgway, Winthrop, Mass.
Application March 5, 1941, Serial No. 381,773
8 Claims. (Cl. 152—237)

1. A tire chain appliance for vehicle wheels having a rim and a tire mounted thereon, said appliance comprising two anchoring rings, means attaching said rings to the wheel, one on each side of the rim, each ring having notches in its inner edge, a tire chain adapted to engage the tread portion of the tire, said tire chain having two side chains extending the length thereof and cross chains connected at their ends to the side chains, each side chain having at each end a hook to hook into a notch of the corresponding anchor-



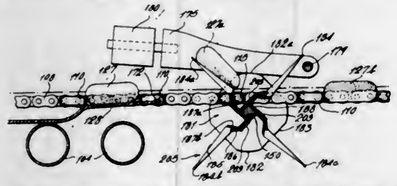
ing ring, and means associated with certain of the hooks to take up slack in the chain.

2,286,012
IMPLEMENT HOLDER
Arthur J. Rochow, Pittsford, N. Y.
Application October 9, 1940, Serial No. 360,466
2 Claims. (Cl. 65—65)



1. An implement holder of the character described, fashioned from a single sheet metal stamping and embodying in combination a horizontally disposed drip basin, a relatively narrow standard extending upwardly therefrom at the rear thereof, and a forward extension above the standard provided with inwardly turned arms reaching toward each other above the basin for retention of the handle of an implement resting in the latter, there being legs extending rearwardly downwardly from the rear of the basin adapted to support the holder upright on a horizontal surface jointly with the bottom of the basin and to also engage a vertical wall and maintain the holder upright when the standard is hung against such wall.

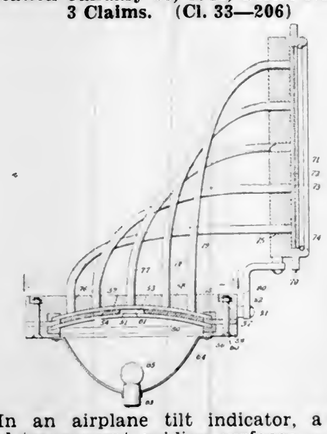
2,286,013
DOUGHNUT MACHINE
Ernest J. Roth, Norwood, N. J., assignor to Joe Lowe Corporation, New York, N. Y., a corporation of Delaware
Application January 30, 1941, Serial No. 376,578
19 Claims. (Cl. 53—7)



1. A turnover device useful in a doughnut frying apparatus, said turnover device comprising

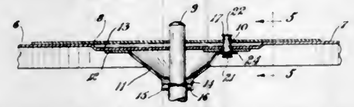
a rotatable shaft and a rotor secured to said shaft, said rotor in turn consisting of a series of blades mounted upon said shaft, said blades being spaced 90 degrees apart and extending radially outwardly therefrom, the shank of each blade being bent to advance the position of the blade relative to its shaft-attaching shank, a spur plate secured to the forward wall of each of said blade shanks and extending laterally outwardly therefrom to define a supporting rest for doughnuts positioned upon its associated blade during the operation of turning said doughnuts over incident to frying, and a leaf spring secured to the rear wall of each of said blade shanks and extending in parallel spaced relation to its said rear wall.

2,286,014
AIRPLANE ANGLE INDICATOR
Robert Rowe, Woodside, Long Island, N. Y., assignor of thirty per cent to Stanley S. Lieberman, New York, N. Y.
Application January 28, 1941, Serial No. 376,265
3 Claims. (Cl. 33—206)



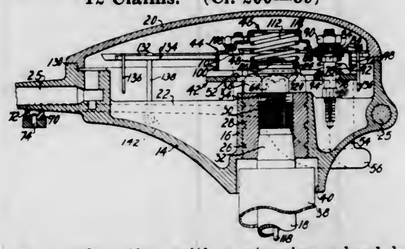
1. In an airplane tilt indicator, a pair of curved transparent guiding surfaces, a quantity of opaque liquid confined between said surfaces, a movable bubble in said liquid, a series of spaced light conducting rods of organic plastic resin terminating adjacent one of said surfaces, and means for passing light through the bubble and into one of the rods adjacent the bubble.

2,286,015
TURNTABLE
Emmor V. Schneider, Alliance, Ohio, assignor to The Alliance Manufacturing Company, Alliance, Ohio, a corporation of Ohio
Application December 10, 1940, Serial No. 369,425
2 Claims. (Cl. 274—39)



1. A turntable for a sound recording and reproducing apparatus having an eccentrically located hole therein, a pin located entirely through the hole and freely vertically movable therein and having an integral flange at its upper end for engaging the upper side of the turntable around said hole, a removable shoulder on the lower portion of the pin for engaging the under side of the turntable around said hole and a leaf spring on the under side of said turntable having one end fixed to the turntable and its free end abutting and unattached to the lower end of the pin for normally yieldably projecting the pin above the turntable at all times except when downward pressure is exerted upon the upper end of the pin.

2,286,016
SIGNAL HORN SWITCH
Joseph F. Sladky, Racine, Wis., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland
Application July 24, 1940, Serial No. 347,220
12 Claims. (Cl. 200—59)



1. In combination with a steering wheel having a base, a horn switch including a fixed plate and a movable plate mounted on top of said base, a horn ring positioned below said base and extending upwardly therethrough to said switch, and a pivot for said movable plate on said base.

2,286,017
CADMIUM REMOVAL
Carleton Henry Smith, Montreal, Quebec, Canada, assignor to National Lead Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application February 26, 1941, Serial No. 380,601
5 Claims. (Cl. 75—63)

1. The process of removing cadmium from white metals, which comprises melting the metal to be treated, admixing therewith sulfur to form a dross containing cadmium and skimming off the dross from the purified metal.

2,286,018
PLASTIC SEALING COMPOSITION
Floyd R. Smith, Wilkinsburg, Pa.
No Drawing. Application March 18, 1940, Serial No. 324,725
5 Claims. (Cl. 106—282)

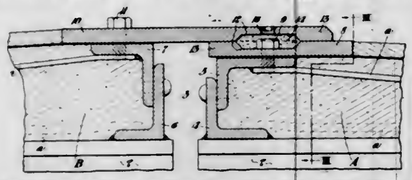
4. A plastic sealing composition having the following ingredients and proportions:

	Percent by weight
Petroleum jelly	40–50
Liquid asphalt	5–15
Powdered red lead	25–35
Long asbestos fiber	10–20

2,286,019
EXPANSION JOINT
Floyd R. Smith, Wilkinsburg, Pa.
Application March 18, 1940, Serial No. 324,726
10 Claims. (Cl. 94—18)

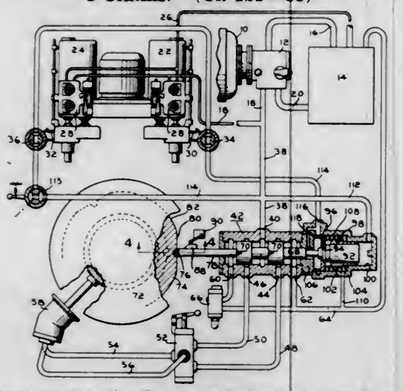
9. In an expansion joint construction, a pair of spaced relatively movable plate members adapted to span a joint space, said members being disposed in overlapping relation and having contacting faces, the upper member having a recess in its contacting face extending transverse-

ly of the direction of relative movement of the members and closed by the lower member, and a



body of plastic sealing composition in the recess for sealing engagement with the lower member.

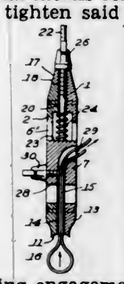
2,286,020
POWER TRANSMISSION
David V. Smyth, Waterbury, Conn., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application March 6, 1941, Serial No. 382,021
3 Claims. (Cl. 121—38)



1. A hydraulically-operated, single-cycle, control mechanism comprising a member shiftable between a stop position and a run position, a piston movable relative to said member and arranged to shift the member from stop to run position, a control conduit for directing fluid to operate said piston and shift said member toward run position, means constantly urging said member toward stop position, additional means for moving said member further in the same direction that the piston moves it, a valve controlled by said further movement of said member for relieving pressure from the piston to thereby reset the piston for another cycle, and means controlled jointly by the piston and the member for blocking said conduit after the piston is reset and until the member is returned to stop position.

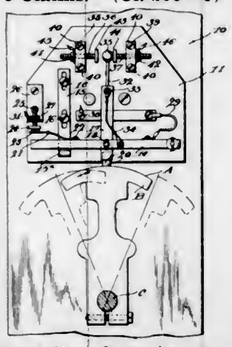
2,286,021
DENTAL MATRIX CLAMP
Horrie Burton Stanford, Atlanta, Ga.
Application June 28, 1940, Serial No. 343,053
9 Claims. (Cl. 32—63)

9. In a dental matrix clamp, a pair of complemental plates, one end of said plates constituting jaw portions, a member slidable between said plates, a loop member adapted to embrace a tooth, the free ends of the loop member being secured to said slidable element, said jaw portions having arcuate end surfaces, the ends of the arcs being disposed in vertically spaced planes, means carried by said jaws at the ends of said arcs for biting engagement with the tooth surface and additional means for adjusting said slidable element to tighten said loop about the



tooth and effect biting engagement of said jaws with the surface of said tooth.

2,286,022
CONTACT SELECTOR
William H. Starck, West Chicago, Ill.
Application October 14, 1940, Serial No. 361,181
3 Claims. (Cl. 200—6)

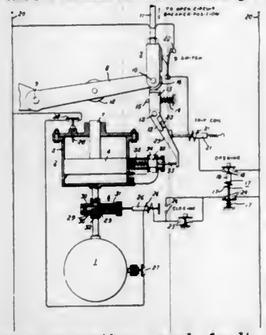


1. A switch of the character described, comprising a vertically disposed base, a horizontally arranged bar pivoted at one end, an electric contact carried by the base above the free end of the bar, a vertically arranged bar intermediately pivoted to the horizontally arranged bar, electrical contacts carried by the base on opposite sides of the upper end of the vertically arranged bar for completing a circuit through the bar by the movement thereof in either direction, and a movable cam for engaging the lower end of the vertically arranged bar for swinging the same on its pivot and simultaneously causing the horizontally arranged bar to complete a circuit.

2,286,023
PNEUMATIC OPERATING MECHANISM FOR CIRCUIT BREAKERS
Harold E. Strang, Ardmore, Pa., assignor to General Electric Company, a corporation of New York
Application July 11, 1940, Serial No. 344,965
6 Claims. (Cl. 200—82)

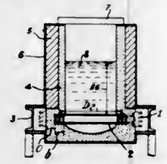
1. A fluid pressure operating mechanism of the trip-free type for an electric circuit breaker comprising a source of fluid pressure, a fluid motor including a piston and cylinder, means disengageably relating said piston to said circuit breaker for closing said breaker, a latch for holding said circuit breaker in closed position independently of said piston so that said piston can return to its initial open position whereby said circuit breaker is normally free to trip open at high speed independently of said piston, a dump

valve for venting said cylinder to atmosphere at the working face of said piston whereby said piston can also return to its initial position dur-



ing a closing operation, and fault responsive means for releasing said latch to cause opening movement of said breaker and for also opening said dump valve for causing trip-free operation.

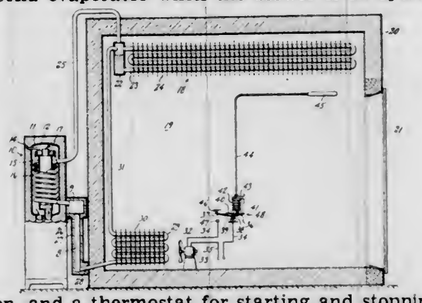
2,286,024
CORELESS INDUCTION FURNACE FOR MELTING METALS
Manuel Tama and Mario Tama, Morrisville, Pa., assignors to Ajax Electrothermic Corporation, Ajax Park, N. J., a corporation of New Jersey
Application October 25, 1940, Serial No. 362,730
In Germany October 30, 1939
11 Claims. (Cl. 13—26)



1. A coreless induction furnace for melting metals comprising a crucible, an annular groove in the bottom section of the crucible wall communicating with the inner space of the crucible, a primary coil situated at the extremity of said annular groove, in a position corresponding generally to an extension of the length of said groove the free opening of same into the inner space of the crucible being directed away from the location of the said primary coil, the latter being shaped to induce current substantially only in the metal in the extremity of said groove.

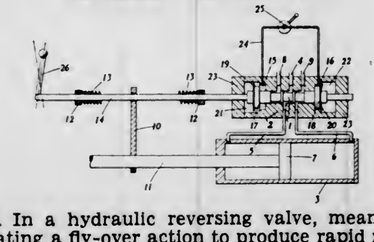
2,286,025
REFRIGERATION
Albert R. Thomas, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application November 22, 1939, Serial No. 305,578
1 Claim. (Cl. 62—125)

In a refrigerator having a storage compartment, a cooling element, a heat transfer system including an evaporator in the upper part of said compartment, a condenser at a level below that of said evaporator and arranged to be cooled by said cooling element and connected to receive vapor from said evaporator, a second evaporator in the lower part of said compartment connected to receive liquid from said condenser, a conduit for conducting liquid from said second evaporator upward to said first evaporator under the lifting action of vapor formed in said second evaporator, a blower located so as to direct a stream of air in said compartment onto said second evaporator when the blower is in opera-



tion, and a thermostat for starting and stopping said blower responsive to change in temperature of air in said compartment.

2,286,026
HYDRAULIC VALVE
John Maurice Towler and Frank Hathorn Towler, Yorkshire, England
Application August 1, 1940, Serial No. 349,102
In Great Britain June 8, 1939
13 Claims. (Cl. 121—164)

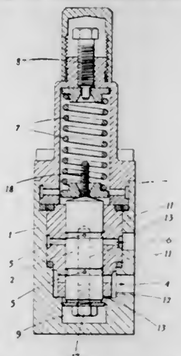


3. In a hydraulic reversing valve, means for creating a fly-over action to produce rapid reciprocation of a piston-type valve member controlling the delivery of pressure liquid to and its exhaust from each hydraulic cylinder of the hydraulic traverse mechanism of an associated machine to control reciprocation of the operating piston effecting said traverse, said means comprising two recesses each adapted normally to be immersed in a body of liquid and situated in relation to each other so as to correspond to the limits of the reciprocating movement of said valve member, two displacement bodies movable with the valve member into and out of each recess in alternation, and adapted to close the open side of each recess when its associated displacement body has entered said recess and be held firmly by the suction resulting from the displacement of liquid from said recess by the entry of the displacement body and thereby similarly hold the valve member against movement, and means for terminating the suction hold of each displacement body in turn said means being operated by the reciprocating member, the movement of which is to be controlled.

2,286,027
HYDRAULIC REDUCING VALVE
John Maurice Towler and Frank Hathorn Towler, Yorkshire, England
Application April 9, 1941, Serial No. 387,764
In Great Britain December 12, 1939
4 Claims. (Cl. 50—35)

1. A hydraulic reducing valve, embodying a housing having a high pressure fluid inlet and a longitudinally spaced low pressure outlet formed

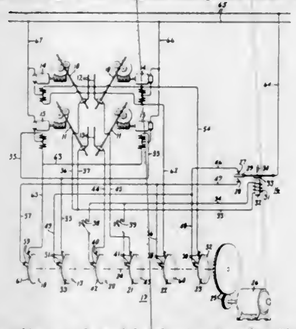
therein, a sleeve mounted in said housing, said sleeve having passages in fixed communication with said inlet and said outlet respectively, longitudinally spaced lateral passages in said sleeve intermediate the passages thereof communicating with said inlet and said outlet, said intermediate passages being connected externally of said sleeve, a plunger slidable within said sleeve, having two relatively spaced axially disposed bores, each of which is closed at both its ends, peripheral grooves on said plunger relatively spaced for registration with said inlet and said outlet, respectively, radial passages connecting each of said grooves with a bore, adapted to establish communication between said inlet and one of said bores and between said outlet and the other of said bores, a pressure chamber at one end of said housing, means of communication between said



chamber and said outlet external of said sleeve, spring means associated with said housing effective on said plunger to urge the latter toward said chamber and means communicating with said plunger bores, independently of said grooves, formed for registration with said intermediate sleeve passages, when said grooves are aligned with said inlet and outlet to open communication between said inlet and said outlet through said plunger and said passage external of said sleeve, for the transfer of fluid from said inlet to said outlet, said plunger reacting to back pressure in said chamber, in opposition to said spring, to diminish the effective areas of said inlet and said outlet, the passage of fluid from one plunger bore to the other being retarded by a concurrent closure of said intermediate sleeve passages, to reduce the outlet pressure in a series of controlled stages.
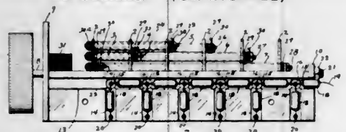
2,286,028
WELDING APPARATUS
Frank B. Tuttle, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application January 30, 1942, Serial No. 428,886
6 Claims. (Cl. 219—8)

1. Apparatus comprising a plurality of circuits in each of which is connected a pair of cooperating electrodes whose position relative to one another determines an electrical characteristic of its said circuit, a plurality of electrode feeding means each of which controls the relative position of one of said pairs of cooperating electrodes, regulating means responsive to departures from a desired electrical characteristic of any one of said circuits for operating said electrode feeding means associated therewith to re-establish said desired characteristic by the proper positioning of said pair of cooperating electrodes connected in said one of said circuits, and distributor means for connecting said regulating means to each of



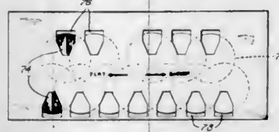
said circuits and said electrode feeding means associated therewith in a desired sequence for predetermined intervals of time.

2,286,029
HIGH FREQUENCY RESISTANCE DEVICE
John M. van Beuren, Boonton, N. J., assignor to Measurements Corporation, Boonton, N. J., a corporation of New Jersey
Application June 9, 1941, Serial No. 397,351
15 Claims. (Cl. 178—44)



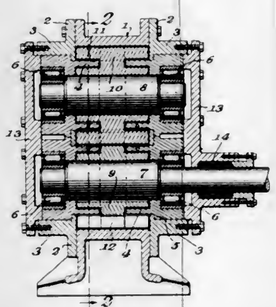
1. An ultra high frequency attenuator comprising a shielding frame, a recess within said frame containing a multiple of resistance units serially connected with an input terminal, a second recess within said frame containing a resistance unit connected at one end between a pair of said first mentioned resistance units and at its other end to a return circuit, said recesses forming a substantially close fitting inductance short-circuiting sheath for each of said resistance units, and means for tapping the circuit at the electrical junction between each pair of said serially connected resistance units.

2,286,030
STROBOSCOPE
Robert W. Young and Allen Loomis, Elkhart, Ind., assignors to C. G. Conn, Ltd., Elkhart, Ind., a corporation of Indiana
Application May 28, 1938, Serial No. 210,636
35 Claims. (Cl. 88—14)



1. Apparatus of the class described comprising, in combination with means for flashing a light in synchronism with the vibrations of a sound, a plurality of stroboscopic members having patterns thereon formed by substantially spaced pattern elements arranged to be illuminated by the flashing light so that the pattern on one of said members will appear substantially stationary when the speed of that member is in synchronism with the rate of flashing of the light, and means for driving said members simultaneously at speeds differing successively substantially in the ratio of the numbers of vibrations in corresponding successive notes of a chromatic scale.

2,286,031
ROTARY PUMP OR THE LIKE
Henry G. Bowering, Needham, Mass., assignor to Kinney Manufacturing Company, Jamaica Plain, Mass., a corporation of Massachusetts
Original application January 22, 1938, Serial No. 186,402. Divided and this application December 18, 1940, Serial No. 370,694
14 Claims. (Cl. 103—126)



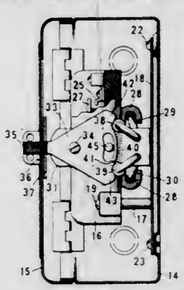
1. A pump comprising a casing having an inlet and an outlet, and a pair of unitary rotors rotatably supported within said casing, one of said rotors constituting the driving rotor, each of said rotors including a plurality of teeth equally spaced around the periphery of said rotors and extending from end to end thereof, each of said teeth including a portion formed to mesh in driving contact with like portions of the teeth on the other rotor so that said other rotor is positively rotated by the driving rotor, and a portion to enter without driving contact between like portions of a pair of teeth of the other rotor to cooperate with said second-named like portions only in the transfer of fluid from said inlet to said outlet.

2,286,032
SHEET REGISTERING MECHANISM FOR PRINTING MACHINES
William K. Eckhard, Newark, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York
Application February 11, 1941, Serial No. 378,341
18 Claims. (Cl. 271—7)



1. In a sheet registering mechanism for a printing machine, a rotatable cylinder adapted to receive sheets, sheet registering members carried by the cylinder and by which sheets delivered thereto are registered, means to take sheets from the cylinder, and means to move the sheet registering members out of sheet engaged position previous to movement of the sheet taking means from the cylinder.

2,286,033
ENCLOSED ELECTRIC SWITCH
Benjamin E. Getchell, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a corporation of Connecticut
Application December 18, 1939, Serial No. 309,746
2 Claims. (Cl. 200—17)



1. A switch having an insulating base, a bracket mounted in fixed relation thereto, two separate switch units on said base, each unit having pairs of spaced stationary contacts and a movable switch member coacting with the contacts of each pair, two separate crank shafts supported by said bracket beneath the base for actuating the respective movable switch members, a pivotal cam member on said bracket at one side of the base for moving either one of said crank shafts independently of the other, an integral hand lever on the cam member and spring means connecting said crank shafts for urging said shafts to open circuit position, said cam member and said spring means tending to act against one another with respect to the bias of both crank shafts, whereby both movable switch members are positively maintained in their respective circuit controlling positions and whereby the switch members are protected against accidental opening or closing.

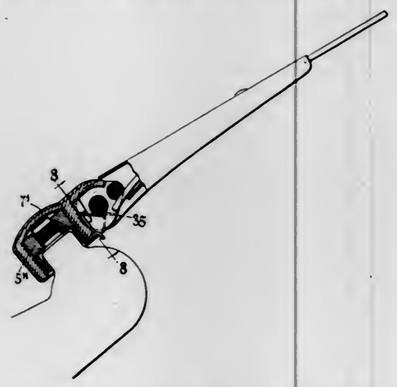
2,286,034
PREPARATION OF SUBSTITUTED ALDEHYDES
William F. Gresham, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 4, 1939, Serial No. 265,969
2 Claims. (Cl. 260—602)

2. A process for the preparation of methoxy acetaldehyde which comprises introducing an equimolar mixture of water and monomethyl ether of ethylene glycol into a reaction zone containing a fused and reduced copper-silicon-chromium catalyst, maintaining the reaction zone at a temperature between 250 and 325° C., condensing the reaction product and recovering therefrom methoxy acetaldehyde.

2,286,035
WINDSHIELD CLEANER
Erwin C. Horton, Hamburg, and Anton Rappl, Buffalo, N. Y., assignors to Trico Products Corporation, Buffalo, N. Y.
Application April 25, 1940, Serial No. 331,628
10 Claims. (Cl. 287—52.02)

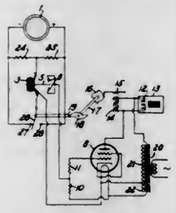
1. A windshield wiper arm having a shaft receiving socket with a pair of side walls extending outwardly therefrom, the walls having opposed recesses, a shaft engaging latch formed of wire

to provide a shaft engaging keeper part and a pair of trunnions, the latter pivoting in the re-



cesses, and means for retaining the latch operative.

2,286,036
INTEGRATING PHOTOMETER
Anthony H. Lamb, Elizabeth, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application January 10, 1940, Serial No. 313,285
13 Claims. (Cl. 171—95)



1. In an integrating photometer, the combination with an integrating system comprising means establishing a magnetic field, a coil mounted for free oscillation in the magnetic field, a contact arm carried by said coil, and relatively fixed contacts spaced from each other along the path of said contact and electrically connected to each other, of a photoelectric cell of the current-generating type, circuit elements including a polarity reversing switch connecting said photocell to said coil, means including a solenoid for actuating said polarity reversing switch, a vacuum tube having said solenoid in the output circuit thereof, and a circuit including said contact arm and contacts for controlling conduction through said tube.

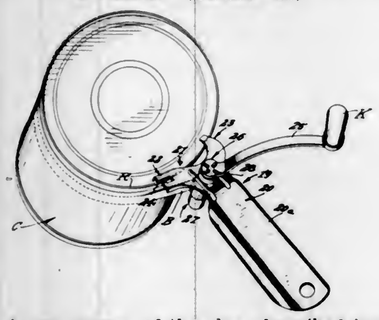
2,286,037
PROCESS FOR THE PREPARATION OF SUBSTITUTED GLYCERIC ALDEHYDES
Donald J. Loder, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 13, 1939, Serial No. 267,614
10 Claims. (Cl. 260—602)

8. A process which comprises the preparation of an ether-substituted glyceric aldehyde by interacting in the liquid phase aqueous formaldehyde with a compound selected from the group consisting of alkoxy acetaldehydes and aryloxy acetaldehydes in contact with an alkaline catalyst.

2,286,038
GEL INTERMEDIATE
Willett C. Pierson, East Orange, N. J., assignor, by mesne assignments, to William H. Anderson, Yonkers, N. Y., as trustee
No Drawing. Application December 20, 1938, Serial No. 246,907. In Canada December 28, 1937
10 Claims. (Cl. 106—136)

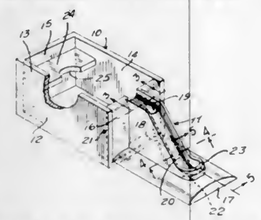
1. The method of producing a gel intermediate of the class described including employing chrome tanned leather as a base material relatively free of oil and fat impurities, subjecting such base material to the reactive effects of an aqueous alkalizing and bleaching solution essentially comprising an alkaline sodium compound and an oxidizing agent, removing a quantity of the solution from the solid material after a substantial bleach has been realized therefor, thereafter washing the solid material with water and removing a substantial quantity of the liquid from the washed solid material, introducing a quantity of sulfuric acid into the partially dewatered washed solid material and subjecting the same to a heat treatment within an approximate temperature range of 190° to 195° F. for a period of time of approximately 1 hour to 1½ hours duration, thereafter removing solids constituting impurities from the resulting liquid-form product, which resulting product still contains water therein, and ultimately eliminating the water content and incorporating a diluting and cutting agent whereby the product thereby obtained is a viscous solution adapted for various modes of employment.

2,286,039
VACUUM CAN OPENER
Philip Reynolds, Forest Hills, N. Y., assignor of one-half to Sanford Solarz, New York, N. Y.
Application November 8, 1941, Serial No. 418,284
3 Claims. (Cl. 220—52)



1. A can opener of the class described including a holding handle having a guiding portion thereon, an operating handle rotatively attached to said handle, gripping means attached to said operating handle, said means including an inner and outside tubular member, said inner member being loosely fitted within said outside member, said inner member provided with a crimping portion for squeezing tight the tip end of the unwinding band of said can against said inner portion of said outside member for holding fast said band end, the rotation of said operating handle winding said unwinding band upon the gripping means aforesaid.

2,286,040
ASH TRAY
Gus Scharles and Harry J. Storms, New York, N. Y.
Application January 20, 1940, Serial No. 314,786
9 Claims. (Cl. 131—242)

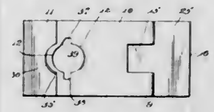


1. A smoker's appliance comprising two portions, one of which has a bottom wall, two opposed side walls and only one end wall, the other portion having a part that provides an end wall for said first portion opposed to said first-mentioned end wall and another part extending at an angle thereto and being in extent commensurate with the extent of said bottom wall, with cigarette-retaining means accommodated in the angle between said two parts of said second portion, and means connecting said two portions to permit them to be related to each other selectively in any of several relationships, in two of which relationships said end wall part of said second portion is in position opposed to said end wall of said first portion and in one of which two relationships said second-mentioned part of said second portion is opposed to the bottom wall of said first portion and closes the latter with said cigarette-retaining means projected into said first portion and in the other of which two relationships said second-mentioned part of said second portion extends away from said first portion to expose said cigarette-retaining means externally of said first portion and leaves said first portion open at the top, but closed around its sides and ends for the reception of ashes or the like, said connecting means providing for another of said several relationships in which said second portion is positioned relative to said first portion to bring said end wall of said second portion out of position to completely close off the ends and sides and whereby, as by tilting said first portion downwardly about its only end wall as an axis and thereby sliding said ashes out from in between its side walls, discharge of ashes or the like from said first portion may be effected.

2,286,041
CELLULOSE ACETATE MOLDING COMPOSITION
Raphael L. Stern, South River, N. J., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 24, 1938, Serial No. 247,681
10 Claims. (Cl. 106—177)

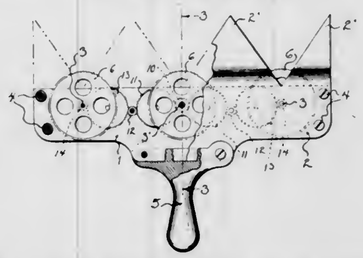
1. In the preparation of clear transparent substantially colorless plastic compositions comprising cellulose acetate, a heat-stable plasticizer, and a blue dyestuff, the improvement which consists in incorporating in the said composition 0.0005% to about 0.10% by weight based on the weight of the cellulose acetate of an acid having a dissociation constant within the range of about 4×10^{-2} to about 1×10^{-4}, to prevent decomposition and discoloration of the dyestuff under the influence of heat required in molding the composition.

2,286,042
FASTENING DEVICE
George A. Tinnerman, Cleveland, Ohio, assignor, by mesne assignments, to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Original application January 7, 1937, Serial No. 119,415, now Patent No. 2,222,449, dated November 19, 1940. Divided and this application October 16, 1940, Serial No. 361,451
12 Claims. (Cl. 85—36)



1. A sheet metal nut structure provided with an integral thread portion for threadedly engaging a threaded member having a square thread, comprising, a sheet metal body of a gauge approximating the pitch of said square thread and provided with an opening for receiving said threaded member, said opening including lateral slots for admitting said square thread and defining cooperating thread engaging elements on portions substantially in the general plane of said body, at least one of said thread engaging elements being integral with said body in the area bordering one of the slots of said opening, said thread engaging elements being bent outwardly out of the plane of the body such that the edges thereof adjacent said opening lie on a helix corresponding substantially to that of said square thread for abutting engagement with a convolution of said thread.

2,286,043
HEDGE TRIMMER
Daniel D. Welch, Milwaukee, Wis.
Application December 15, 1938, Serial No. 245,865
1 Claim. (Cl. 30—205)



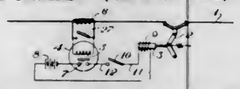
In a hedge trimming tool having upper and lower plates forming a gear housing, the front edge of one of said plates being provided with V-shaped cutting tools and spacing thimbles at the ends of said plates for securing the same together; the combination of a handle positioned at the back edges of said plates having a shank provided with pairs of kerfs for tightly engaging the plate edges, the said kerfs forming spacers for the plates in conjunction with the end spacer thimbles, the same being positioned at the back edge of the plate and centrally located with reference to the thimbles, whereby said kerfs and thimbles form skeleton braces at the ends and back of the plate for rigidly securing same with an uninterrupted open mouth at the front to permit freedom of action of the cutting gears, and a motor-driven series of cutting wheels mounted on said plates in gear connection.

2,286,044

DETACHABLE RELAY

Charles P. West, Forest Hills, Pa., Roy M. Smith, Livingston, N. J., and William A. Lewis, Jr., Ithaca, N. Y., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 23, 1939, Serial No. 263,722
11 Claims. (Cl. 175—294)



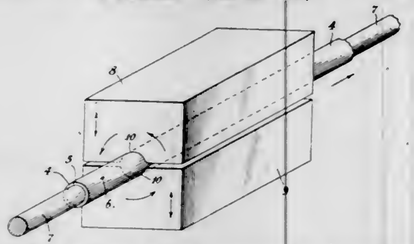
1. In an instrument unit, a detachable electrical relay instrument having circuit controlling contact means subject to operation by shock, an instrument base for detachably receiving said instrument, a circuit controlled by said instrument, switch means operable for changing the condition of said circuit, said switch means requiring actuation before said instrument can be moved substantially from its operative attached position on said base, and means electrically connecting said switch means to said circuit for controlling the effectiveness of said contact means.

2,286,045

METHOD OF MAKING TUBES OF PYROXYLIN MATERIAL OR THE LIKE

John N. Whitehouse, New York, N. Y.

Application December 2, 1939, Serial No. 307,208
2 Claims. (Cl. 18—51)



1. The method which consists in providing a tube of pyroxylin material with a relatively heated interior supporting mandrel, advancing the tube and mandrel progressively through the field of operation of a relatively cool hammer-molding assembly and causing relative step-by-step rotation between the mandrel and tube on the one hand and the hammer-molding assembly on the other hand.

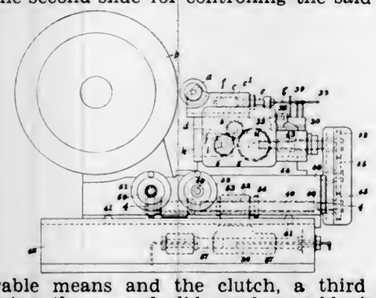
2,286,046

MEANS FOR TRIMMING SHAPED GRINDING WHEELS

Axel Charles Wickman, Tile Hill, Coventry, England

Application October 15, 1940, Serial No. 361,325
In Great Britain October 9, 1939
3 Claims. (Cl. 125—11)

1. Means for trimming a helically shaped periphery of a grinding wheel, comprising the combination of a rotary trimming roller adapted to effect the required trimming by a crushing action on the grinding wheel, a slide on which the trimming roller is mounted, and which is movable towards and away from the periphery of the grinding wheel, a second slide which carries the first slide and is movable in a direction along the periphery of the grinding wheel, fluid operable means for actuating the first slide, a variable speed reversible screw mechanism for actuating the second slide, means for rotating the grinding wheel and the reversible screw mechanism, a fluid operable clutch for controlling the action of the reversible screw mechanism, the clutch having component parts which so far at least as the movement of the second slide in the operative direction is concerned, are inter-engageable only when in predetermined relative positions, valve and tappet mechanism operable by the second slide for controlling the said fluid



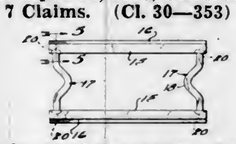
operable means and the clutch, a third slide carrying the second slide and movable in the same direction as the first slide, a fourth slide carrying and movable in the same direction as the third slide, a bed carrying the fourth slide, hand operable means for moving the third and fourth slides together and relatively to each other, and fluid operable means for moving the fourth slide together with the third slide.

2,286,047

CUTTING IMPLEMENT

Leonard A. Young, Detroit, Mich.

Application April 11, 1940, Serial No. 329,019
7 Claims. (Cl. 30—353)



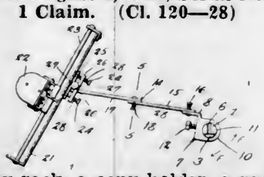
3. A razor blade of the double edge type, comprising a skeleton body portion having cross struts formed from relatively soft wire, and spaced cutting members welded to the opposite ends of said cross struts, said cutting members being formed from tempered steel wire stock.

2,286,048

COPY RACK

Harry J. Bahr, Grand Island, Nebr.

Application August 4, 1941, Serial No. 405,385
1 Claim. (Cl. 120—28)



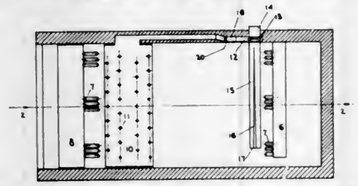
In a copy rack, a copy holder, a rod-like, approximately-horizontal support, spaced connectors joining the holder with the support for governed rocking movement transversely of the axis of the support, a single pair of forward links, a single pair of rear links, pivot means connecting the forward end of each rear link with the rear end of one forward link, for movement in a plane parallel to the support, and to permit the pivotally connected links to fold laterally in opposite directions, means for pivotally joining the forward ends of the forward links to the support at spaced points located between the connectors, for movement in a plane parallel to the support, a carriage, means for pivotally connecting the rear ends of the rear links to the carriage at spaced points, for movement in a plane parallel to the support, a track whereon the carriage is mounted to slide laterally and to swing vertically, the track being of such length that the carriage may have a wide range of lateral adjustment thereon, means for holding the carriage releasably fixed with respect to the track, and means for mounting the track terminally on a linotype machine, in a practically horizontal position.

2,286,049

AGITATING AND FLOW CONTROLLING MEANS FOR BAKE OVEN ATMOSPHERE

Joseph A. Baker, Toronto, Ontario, Canada, assignor to Baker Perkins, Inc., Saginaw, Mich., a corporation of New York

Application May 5, 1941, Serial No. 391,937
2 Claims. (Cl. 107—57)



1. In a traveling conveyor oven having radiant means maintaining baking heat therein and having a system for recirculating oven atmosphere wherein transverse delivery ducts are provided with opposed perforate walls spaced respectively above and below the path of travel of the goods, said system also including a suction duct extending across the baking chamber at a place remote from said opposed ducts, a suction-blower communicating at its suction side with said suction duct, and a conduit connecting the blower outlet to both opposed ducts; said oven having, in combination, delivery flow proportioning means associated with said conduit and comprising a partition dividing the conduit into channels that communicate respectively with said delivery ducts, a blade in the conduit pivotally mounted adjacent an end of such partition, said blade being arranged and adapted to present its free edge in variously adjusted positions toward a stream of oven atmosphere flowing through the conduit from the blower, thereby proportioning the blower delivery to the respective opposed ducts without materially interfering with normal volume delivery from the suction-blower to the conduit, and baffles adjustably mounted in at least one of said delivery ducts to equalize the rate of delivery through the perforate wall of said duct at various places throughout the length of said wall.

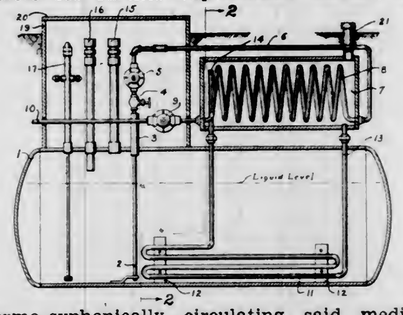
2,286,050

BUTANE SYSTEM

Robin Baker, Lockney, and James C. Fleming, Lubbock, Tex.

Application October 15, 1940, Serial No. 361,322
7 Claims. (Cl. 62—1)

1. A process of dispensing liquefied gas from a tank comprising retaining a body of said gas under pressure in said tank, withdrawing liquefied gas from the tank, at least partially vaporizing the withdrawn liquid by reducing the pressure thereof, passing the partially vaporized liquid through a medium for imparting heat thereto for further vaporization thereof, and



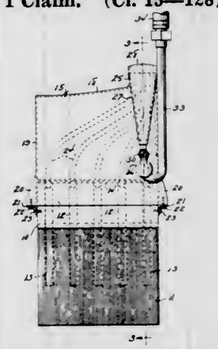
thermo-syphonically circulating said medium through the body of liquid in the tank.

2,286,051

FOUNTAIN BRUSH

John Battle, Scranton, Pa.

Application May 8, 1941, Serial No. 392,575
1 Claim. (Cl. 15—128)



A fountain brush comprising a casing forming a handle, the casing having an extension at one end of the top adapted to enter the crotch between the thumb and forefinger of the operator's hand when gripped upon the casing to prevent slipping of the casing from the hand, a bristle member having a back removably secured to the handle and having bristles extending from the back, resilient ducts opening through the back and extending into the bristles, pipes housed in the casing and communicating with the ducts, a funnel shaped liquid chamber disposed on the side of the casing having a lateral extension at the large end extending across the top of said extension of the casing, a liquid supply pipe connected to the lower end of the funnel shaped chamber, and a valve in the lower end of the funnel shaped chamber having a weighted handle forming a pendulum normally holding the valve open and adapted to be engaged by the operator's hand to close the valve.

2,286,052

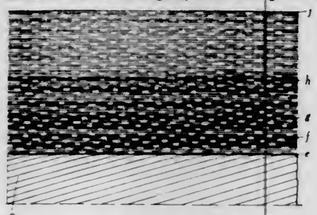
ELECTRIC CABLE

Charles James Beaver, Bowdon, and Edward Leslie Davey, Timperley, England, assignors to W. T. Glover & Company Limited, Manchester, England, a British company

Application February 15, 1940, Serial No. 319,050
In Great Britain February 28, 1939
6 Claims. (Cl. 174—25)

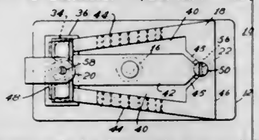
1. An electric cable comprising a conductor,

a dielectric, surrounding the conductor, and a conductive layer concentric with the conductor and within the dielectric, said conductive layer consisting of two overlying metallic helices in contact with each other, each of said helices being carried on a strip of insulating material, on the centre part of one surface thereof, leaving at each side a bare margin, one strip having the



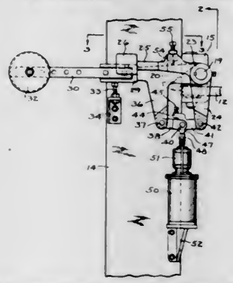
metal on the outside and the other strip having the metal on the inside, the two helices being placed so that each continuously bridges over the gaps between the edges of the turns of the other, the two thus forming a complete conductive layer without exposing a metallic edge in a space between the turns of a carrying strip.

2,286,053
THERMOSTAT
Edward Bletz, Lexington, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 10, 1940, Serial No. 356,134
5 Claims. (Cl. 297—15)



1. A thermostat element comprising an elongated bimetallic plate forming a central strip, two exterior lateral strips and end portions joining said lateral strips, one of said end portions being substantially wider than the other end portion, said central strip joined to the narrow end portion and extending relatively close to the wide end portion and mounting means disposed within the adjacent edges of the central strip and wide end portion for compressing the central strip and elongating the exterior strips.

2,286,054
GAS PRODUCER PLOW ARM LATCH
Anson K. Bradley, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts
Application April 26, 1940, Serial No. 331,707
10 Claims. (Cl. 48—66)



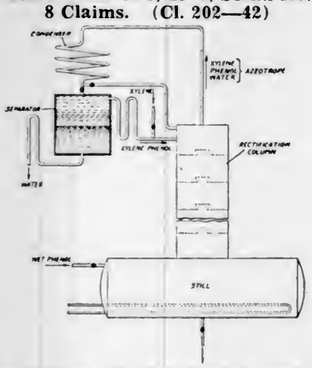
7. An ash removal mechanism for a gas producer or the like comprising a plow arm revoluble in a horizontal plane, a latch arranged to pivot about a substantially horizontal axis and having a shoulder movable into and out of the path of the arm, the shoulder being located beyond the axis in the direction of arm movement so that only a comparatively slight pivotal movement of the latch is required, and actuating mechanism for the latch.

2,286,055
CONVEYER APRON
Coy E. Brittell, Chambers, Nebr.
Application February 13, 1941, Serial No. 378,791
1 Claim. (Cl. 198—199)



In a conveyer apron, a vulcanized sheet of combined rubber and canvas, reinforcing strips of combined rubber and canvas moulded onto the outer surface of the sheet at the longitudinal edges thereof, rubber cleats of solid formation moulded onto the outer surface of the sheet, said cleats extending transversely of said sheet with their ends overlying the reinforcing strips and moulded thereto and arranged in spaced relation to each other and each being of substantially rectangular shape in cross section, and means for detachably connecting the ends of the sheet.

2,286,056
DEHYDRATION OF PHENOLS
William Benno Brown, Westmont, N. J., assignor, by mesne assignments, to Allied Chemical & Dye Corporation, a corporation of New York
Application December 5, 1940, Serial No. 368,615
8 Claims. (Cl. 202—42)

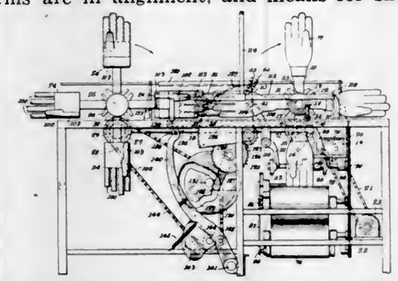


1. The process of dehydrating wet phenols which comprises distilling the wet phenols in the presence of xylene in an amount sufficient to form an azeotropic mixture with the phenol and water so as to effect removal of water from the phenols.

2,286,057
COMBINED GLOVE TURNING AND PRESSING MACHINE
Louis Brownstein, Brooklyn, N. Y., assignor to Isidor Gerber, Brooklyn, N. Y.
Application April 13, 1939, Serial No. 267,553
37 Claims. (Cl. 223—57)

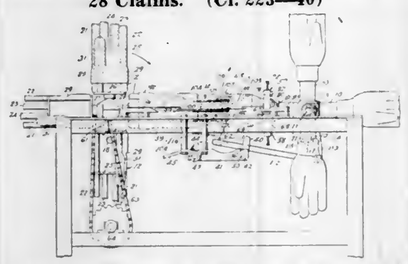
1. In a glove turning and pressing machine, a first intermittently rotatable form, rods slidable in and beyond said form, a second hollow form adapted to have a glove mounted thereon in

inside-out-position, means for projecting the rods from the first form into the hollow form to initiate the turning of a glove when said forms are in alignment, and means for sliding



the glove from the hollow form on to the first form to complete the turning of the glove and to mount the glove in right-side-out-position on the first form.

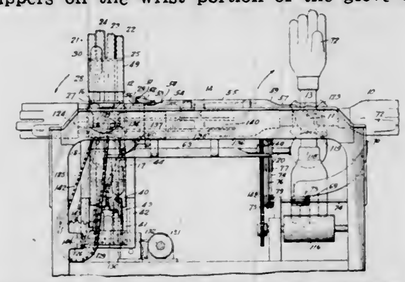
2,286,058
GLOVE TURNING MACHINE
Louis Brownstein, Brooklyn, N. Y., assignor to Isidor Gerber, Brooklyn, N. Y.
Application April 24, 1940, Serial No. 331,310
28 Claims. (Cl. 223—40)



1. In a glove turning machine, a turning form including a thumb member comprising a pair of spring plates arranged to enter the thumb of a glove mounted on the form, a heating form, means for intermittently rotating said forms to carry said forms into an aligned position while said forms are at rest, and an oscillatory tucker blade swingable between said plates to tuck the tip of the glove thumb from a position outside of said plates to a position between said plates while said forms are at rest, a glove gripper including a pair of spring pressed jaws, means for reciprocating said gripper longitudinally of the forms through a stroke extending from the inner end of one of the forms to the inner end of the other form, means for opening the jaws at each end of the stroke and for closing said jaws during the intermediate part of the stroke, and means for rotating one of said grippers out of the path of said forms when said forms are rotated out of the rest positions thereof.

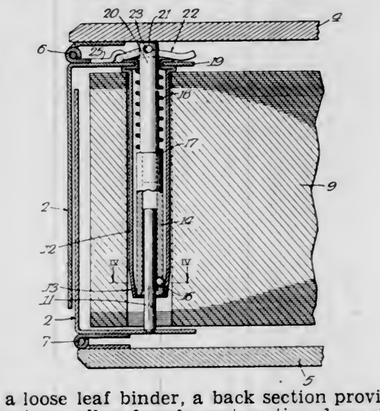
2,286,059
MACHINE FOR TURNING AND PRESSING GLOVES
Louis Brownstein, Brooklyn, N. Y., assignor to Isidor Gerber, Brooklyn, N. Y.
Application December 17, 1940, Serial No. 370,445
18 Claims. (Cl. 223—57)

1. In a machine of the character described, a movable turning form having edge slots therein, means for moving the form intermittently to and through a mounting station, a tucking station, and a turning station, the form being accessible to an operator at the mounting station to mount a glove thereon in inside-out position, reciprocating means at the tucking station to tuck in the finger tips and thumb tip of the glove, a pair of opposed reciprocating grippers at the turning station adapted to enter the edge slots of said form and thereby to enter the wrist portion of the glove mounted thereon on the reciprocation of the grippers, fixed cam means to close the grippers on the wrist portion of the glove and



thereby to move said wrist portion during the reciprocation of the grippers to turn the glove, said grippers releasing the glove at the end of the turning operation, a heating form aligned with the turning form at the turning station and receiving the turned glove mounted thereon by the grippers, and means for operating the forms for removing the respective turning and heating forms from the turning station to the next station at different times thereby to permit the grippers on the return stroke thereof to move past the heating form and into the edge slots of the succeeding turning form.

2,286,060
LOOSE-LEAF BINDER
Edward F. Buenger, Oak Park, and Charles V. St. Louis, Chicago, Ill., assignors to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts
Application June 20, 1940, Serial No. 341,432
1 Claim. (Cl. 129—13)



In a loose leaf binder, a back section provided with a top wall, a female post section depending from said top wall, a locking member positioned in said female post section and extending above said top wall, and a U-shaped lever having the intermediate portion connecting the two legs of the U-member pivoted to said top wall, said lever

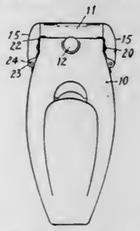
having means projecting from the end of one leg engaging said locking member and the other leg of said U-member being liftable to release said locking member from locking engagement.

2,286,061

HAIR RECEIVER FOR DRY SHAVERS

Cloyd E. Burns, Stamford, Conn., assignor to Schick Incorporated, a corporation of Delaware

Application February 15, 1940, Serial No. 318,989
9 Claims. (Cl. 30—41)



4. In an electric shaver having a casing and an open-ended shearing head thereon with its open ends substantially flush with the sides of the casing, a plate mounted at each side of the casing adjacent an open end of the head, each plate having a pair of spaced wings bent up at its side edges near the bottom of the plate, said plates also having central tab portions between the wings and separated therefrom by spaced slits extending upwardly from the bottom edges of the plates to points above the tops of the wings, a pair of trough-like receptacles each having an open side adapted to overlie one of the plates and also the adjacent open end of the head, the lower side walls of the receptacles being spaced to fit between said wings and pivotally connected thereto with the lower edges of the receptacles adapted to engage the said central tab portions.

2,286,062

PROCESS FOR COPOLYMERIZING MALEIC ANHYDRIDE AND POLYMERIZABLE VINYL COMPOUNDS

Fred E. Condo and Charles J. Krister, Cleveland, Ohio, and William E. Lundquist, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 1, 1940, Serial No. 338,372
8 Claims. (Cl. 260—32)

1. In a process for producing co-polymers of maleic anhydride and polymerizable compounds containing a single

$$\diagdown C{=}CH_2$$

group, which co-polymers are at least partially hydrolyzed and at least partially neutralized, the steps comprising co-polymerizing maleic anhydride in a non-reactive, water-immiscible solvent with a compound which contains a

$$\diagdown C{=}CH_2$$

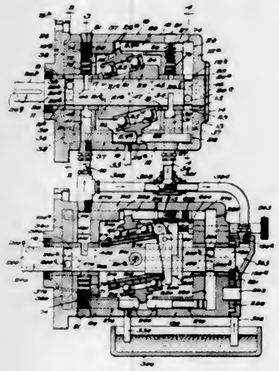
group and which is capable of being polymerized but contains no substantial amount of its polymer, and digesting the co-polymer so formed in an aqueous solution of an inorganic, alkali-metal base in the presence of the water-immiscible solvent, the amount of base being sufficient to promote rapid hydrolysis of the co-polymer and effect transfer of the polymer to the aqueous solution but insufficient to cause a substantial rise in the pH of the aqueous solution.

2,286,063

TRANSMISSION OR THE LIKE

Robert S. Condon, Rutland, Vt.

Application March 6, 1939, Serial No. 260,209
13 Claims. (Cl. 121—119)



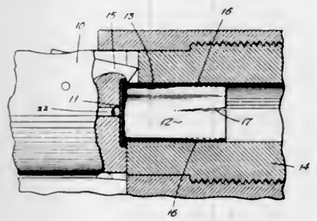
1. In mechanism of the character specified, a casing; a shaft journaled therein; a wabble plate floating on said shaft and having a rounded periphery; opposed sets of cylinders in the casing disposed at opposite sides of the plate; pistons in the cylinders having rounded ends engaging the rounded periphery of the wabble plate whereby the pistons have a point contact therewith to cause the pistons to rotate in their cylinders; and a fluid circuit including said cylinders.

2,286,064

AMMUNITION

Charles D. Coxe, Bridgeport, Conn., assignor to Remington Arms Company, Inc., a corporation of Delaware

Application June 12, 1940, Serial No. 340,004
2 Claims. (Cl. 148—12)



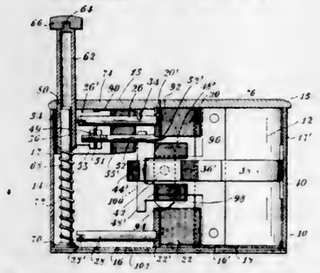
1. In the manufacture of a cartridge shell, the method which comprises providing a disc of low carbon steel containing a precipitation hardenable element; cold shaping said disc into a head of substantially the thickness of said disc and a body integral with said head which decreases in wall thickness toward the open end thereof; and precipitation hardening the shell thus formed, whereby is secured a maximum ductility in said head and an increasing yield strength toward the mouth of said body.

2,286,065

DISPENSING DEVICE

Constante Carlos Dajoz and René Eduardo Dubois, Buenos Aires, Argentina

Application September 26, 1940, Serial No. 358,430
In Argentina August 21, 1940
7 Claims. (Cl. 312—78)



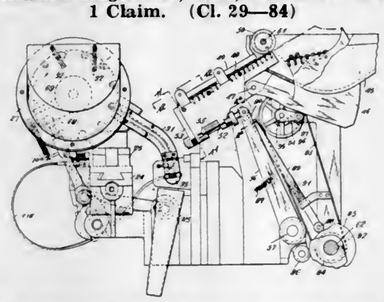
1. A dispenser for toothpicks or the like comprising a container having an aperture through which a toothpick may pass from the interior to the exterior thereof, angular guiding means for limiting the disposition of toothpicks within said container, means for yieldably holding a quantity of toothpicks in a deformable bundle against said guiding means whereby to impart an angular shape to one side of such a bundle, a reciprocating dispensing finger adapted to engage a toothpick located at the vertex of said side of such bundle and to move said toothpick longitudinally to a point where it protrudes through said aperture and beyond the confines of said container, a pair of compression arms disposed at opposite sides of said vertex, a cam device constrained to reciprocate with said dispensing finger and adapted to engage said compression arms and urge the latter together, on the non-dispensing stroke of said finger, whereby to cause said arms to press and deform said bundle to narrow said vertex, and operating means, operable from the exterior of the dispenser, for effecting reciprocation of said finger and said cam device.

2,286,066

ASSEMBLING MACHINE FOR SCREWS AND WASHERS

Frank B. Davis, Cleveland Heights, Ohio, assignor to The National Screw & Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application August 19, 1939, Serial No. 291,049
1 Claim. (Cl. 29—84)



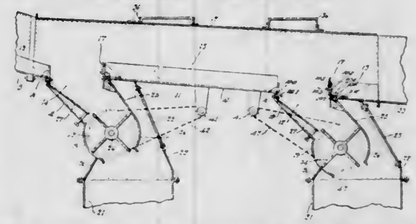
In a machine for assembling screws and lock washers, assembling mechanism including a holder for a washer and a movable assembling member for assembling a screw with a washer in said holder, means for supplying washers one at a time to said holder including a hopper for receiving a batch or mass of loose washers, a chute extending from the hopper to the holder and a rotary member in the hopper for delivering the washers one at a time to the chute along which they travel to the holder, means for supplying screws one at a time to a position in line with a washer in the holder and between the latter and the movable assembling member so that upon actuation of said assembling member the screw will be inserted through the opening of the washer, means for thereafter ejecting the assembled screw and washer from the holder, power means and power transmitting elements from said power means to the rotary member in the washer hopper, to the screw delivery member, and to the assembling member and serving to actuate said parts in predetermined timed relation, said power transmitting elements being so constructed and arranged to time said rotary member with respect to said assembling member and ejecting means so that said rotary member will deliver a washer to said chute in such relation to a previously delivered washer that the washers move along said chute in spaced relation and reach said holder a time interval after a previous washer in said holder has been assembled with a screw and ejected, whereby said washers from the time they leave said hopper until they are ejected are in spaced relation and out of contact with each other.

2,286,067

TROUGH WASHER

Nelson L. Davis, Chicago, Ill., James D. S. Drinkwater, Stockport, England, and Thomas O. Carlisle, Chicago, Ill., assignors to Link-Belt Company, Chicago, Ill., a corporation of Illinois

Original application March 7, 1938, Serial No. 194,358. Divided and this application February 10, 1940, Serial No. 318,216
15 Claims. (Cl. 209—454)



1. A mineral washer comprising a downwardly inclined trough having a port in the bottom thereof, a fixed floor downwardly and rearwardly inclined from the upstream edge of the port, a cylindrical extension in continuation of the floor, a star wheel gate mounted for rotation concentric with the cylindrical extension, a subfloor associated with the fixed floor, and means for angularly adjusting it about a pivot axis immediately adjacent the upper edge of the fixed floor.

2,286,068

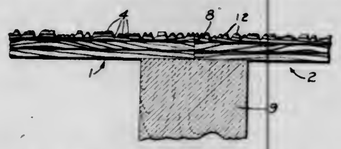
PLYWOOD PANEL

Donald Deskey, New York, N. Y., assignor to United States Plywood Corporation, New York, N. Y., a corporation of New York

Application May 25, 1940, Serial No. 337,219
7 Claims. (Cl. 20—89)

1. As a new article of manufacture, a plywood panel having a face ply of rotary-cut wood having pronouncedly different hard and soft growth, and consequent "wild" graining when rotary-cut, the exposed surface of said face ply having a plurality of substantially continuous grooves of

random depth over the surfaces, but each groove being of the same depth throughout its length, frequent grooves being of material depth to pass through any hard growth layer encountered, said grooves extending substantially lengthwise of the grain in said ply, and generally across its width,



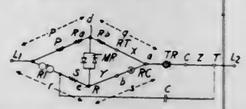
and being sufficiently closely spaced to localize within the individual ribs or groups of ribs the normal stresses arising from shrinking, expanding and the like, and to prevent accumulation of such stresses across any appreciable width of the ply, and also to largely destroy the normal grained effect.

2,286,069

TELEPHONE SET CIRCUIT

Martinus den Hertog, Antwerp, Belgium, assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application November 15, 1940, Serial No. 365,727
In Belgium December 9, 1939
6 Claims. (Cl. 179—81)



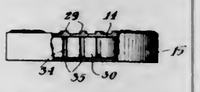
1. A telephone substation circuit comprising a pair of line conductor terminals, a transmitter, a receiver, an induction coil, a ringer, and a receiver click-reduction device, said receiver and the windings of said induction coil and said ringer being connected to form a Wheatstone bridge, said transmitter and said bridge being serially-connected across said line terminals, one of the arms of said bridge comprising said receiver, another arm comprising one winding of said induction coil, a third arm comprising said ringer and a second winding of the induction coil, and a fourth arm comprising a circuit connection between said one induction coil winding and said receiver and transmitter, the click-reduction device being connected between such points on said bridge that, while said circuit is being used, the direct current flowing in the circuit is not effective on said device.

2,286,070

BOTTLE CAP

Claude R. Doe, Bellerose, N. Y., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del., a corporation of Delaware

Application August 1, 1940, Serial No. 349,184
5 Claims. (Cl. 215—38)



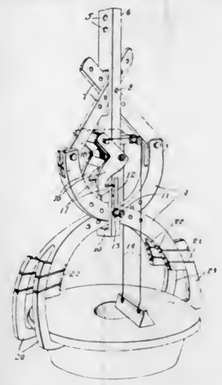
1. A milk bottle cap or the like, comprising a diaphragm adapted to seat on the inner ledge of the bottle and having a pouring lip housing adapted to extend over the pouring lip of the bottle, said pouring lip housing having an inner sealing flange adapted to engage the inner surface of the pouring lip above said ledge, said sealing flange having a plurality of groups of vertical grooves formed in the outer surface thereof, said groups being spaced to provide therebetween an unbroken surface substantially wider than the space between adjacent grooves of each group and substantially wider than the space which would be obtained between adjacent grooves if the same number of grooves were uniformly spaced around the periphery, said spaces being adapted to engage the inside of the pouring lip of the bottle to provide unbroken bearing surfaces for frictionally securing the cap in place.

2,286,071

LIFTING DEVICE

Joseph Dragan and Nickolas J. Dragan, McKees Rocks, Pa.

Application December 10, 1941, Serial No. 422,318
4 Claims. (Cl. 294—119)



3. Lifting apparatus comprising a lifting frame, a pair of links pivotally connected thereto, a pair of tongs each pivotally connected at its upper end to one of the links, means pivotally connecting the tongs intermediate their ends, the tongs being relatively flared at their lower ends so that upon lowering movement of the frame they will be spread apart when engaging the upper surface of an article to be lifted, to move off said upper surface and then to permit their extremities to engage the sides of the article during upward movement of the frame, means positioned to engage the tongs and automatically latch them in open position through spreading of their lower ends a distance substantially greater than that at which they will be caused to grip the sides of the article through lifting of the frame, and means automatically operable upon movement of the tongs to a distance remote from the article, for disengaging the latch means, to permit movement by the lower ends of the tongs toward closed position.

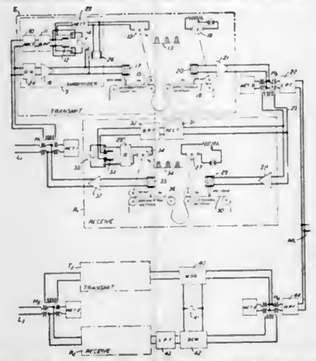
2,286,072

TREATMENT OF SPEECH WAVES FOR TRANSMISSION OR RECORDING

Homer W. Dudley, Garden City, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 22, 1939, Serial No. 310,527
18 Claims. (Cl. 179—1)

1. The method comprising subdividing speech waves on a time basis at the fundamental vocal cord frequency, dropping out a fractional part only of each subdivided wave portion of funda-



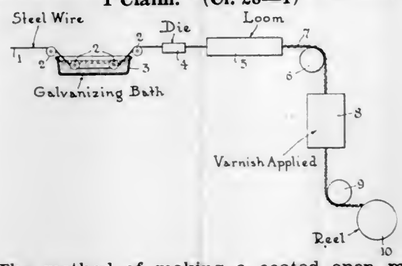
mental length, and transmitting only the retained parts of such subdivided wave portions.

2,286,073

METHOD OF MAKING COATED WIRE FABRIC

Harry L. Edick and Chester F. Wickwire, Cortland, N. Y., assignors to Wickwire Brothers, Cortland, N. Y., a corporation of New York

Application December 16, 1938, Serial No. 246,216
1 Claim. (Cl. 28—1)



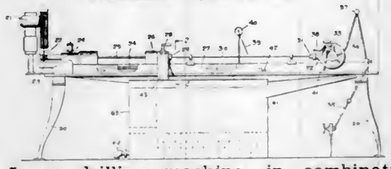
The method of making a coated open mesh wire screen fabric finished to simulate solid wire fabrics which method consists in galvanizing steel wire to make it oversize, drawing the galvanized wire to reduce its diameter and produce a burnished light reflecting surface, forming the wire into fabric, and then applying to said fabric a varnish coating colored to correspond to the color of the metal to be simulated and serving to protect the light reflecting surface against oxidation and leaving said surface visible by light reflected through said coating.

2,286,074

MACHINE STOP

Frederick L. Egger and Edward C. Snow, Ilion, N. Y., assignor to Remington Arms Company, Inc., a corporation of Delaware

Application May 4, 1940, Serial No. 333,260
9 Claims. (Cl. 77—5)



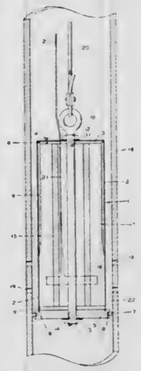
1. In a drilling machine, in combination, means for rotating the work; a drill having a cutting point; yieldable means to hold the drill from rotation; means to feed oil to the drill adjacent the cutting point, said means comprising a tubular member having an open groove; means to feed the drill into the work; automatic means operated by said drill feeding means to shut off the oil being supplied to said tubular member; and automatic means to stop the machine upon rotation of the drill due to excessive torque being exerted upon the drill, said stop means including an oil deflecting finger projecting into the open groove of said tubular member.

2,286,075

THERMIT WELDING APPARATUS

Walter R. Evans, Bartlesville, Okla, assignor to Phillips Petroleum Company, a corporation of Delaware

Application January 21, 1941, Serial No. 375,333
6 Claims. (Cl. 22—58)



1. In apparatus adapted to be lowered into a conduit that extends downwardly in a well bore for carrying out a thermit welding operation within the conduit, the combination comprising a receptacle for containing a supply of thermit, said receptacle including a heat resistant base, a shell extending upwardly of the base, and heat resistant material on the inside of the upper portion of the shell, means for effecting an adequate seal between the receptacle and the inner surface of the conduit, and a heating element within the receptacle.

2,286,076

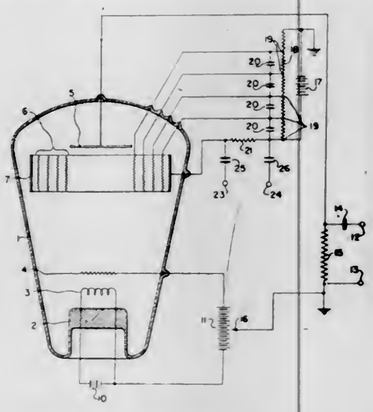
ELECTRON CONTROL DEVICE

Philo T. Farnsworth, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware

Application April 3, 1940, Serial No. 327,669
In Germany October 25, 1937
2 Claims. (Cl. 179—171)

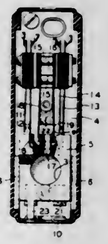
1. An electron-control device comprising an evacuated envelope including a cathode, an accelerating electrode and a solid secondary-electron-emitting electrode positioned in registry with each other; a plurality of concentric secondary-electron-emitting grids adjacent said electrode; an anode disposed in concentric relation with said grids; means for applying operating potentials to said cathode, said accelerating electrode, said solid electrode, said grids and said anode; means for controlling the potential applied to said solid electrode in accordance with

an input signal to control the secondary emission therefrom; and means connected to said anode



for utilizing the electrons collected thereby to develop an output signal.

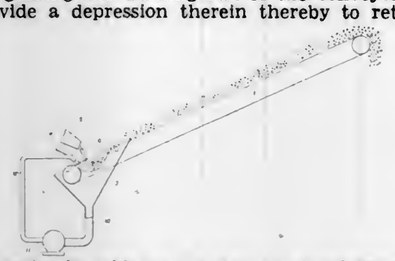
2,286,077
ELECTRIC SWITCH
Paul M. Farmer, Maplewood, N. J., assignor to American District Telegraph Company, New York, N. Y., a corporation of New Jersey
Application March 24, 1938, Serial No. 197,783
9 Claims. (Cl. 200—1)



1. In combination, a pair of normally closed contact springs, a pair of normally open contact springs, a pair of locking springs, a base for supporting said contacts and springs, a finger pull block mounted on said base, recessed portions in said block for engaging said locking springs, two other recessed portions in said block which engage said contact springs, a keyhole in said block, a key member engaging said locking springs and a tell-tale mounted at one end of said block.

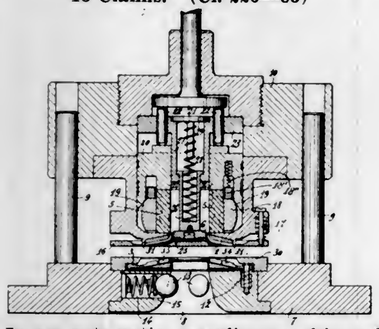
2,286,078
FOAMING OR GRANULATING MOLTEN MATERIAL
Marcel Gallai-Hatchard, London, England, assignor to Holland & Hannen and Cubitts Limited, London, England
Application February 28, 1940, Serial No. 321,165
In Great Britain January 31, 1939
5 Claims. (Cl. 49—14)

1. Apparatus for treating molten material comprising a movable band conveyor having a working run, means for supplying water to the surface of said run at a predetermined zone, means for guiding the working run of the conveyor to provide a depression therein thereby to retain



the water in said zone, and means for delivering molten material to said zone.

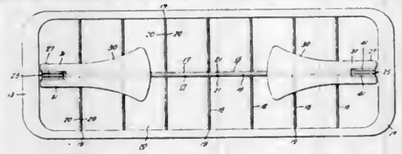
2,286,079
AUTOMATIC MACHINE FOR CAPSULING BOTTLES
Rene Louis Gangloff, Lyon, France
Application March 18, 1938, Serial No. 196,773
In France March 25, 1937
13 Claims. (Cl. 226—85)



7. In an automatic capsuling machine of the type described, a combination of means, for capsuling a bottle with a substantially smooth long-skirted metal cap from a sheet of plastic metal, comprising a supporting table having a punching opening therein, a lower annular die member in said table opening, sloping radially outwards from substantially the level of the table to a lower level, in a slightly conical shape, and having similarly sloping radial ribs on its upper surface, a punch and upper annular die member, adapted to co-operate with said table and lower die member for punching a blank out of a metal sheet and forming a relatively large skirt portion thereof with closely spaced shallow and narrow creases and then yieldingly to compress the creased skirt portion, means for moving the neck of a bottle through said die members holding a creased blank, thereby to draw the blank radially between the die members and against the neck and then axially through the central openings of the die members, thus to shape it into a cap substantially close on the neck, and radial pressure means for tightening and smoothing the cap on the neck.

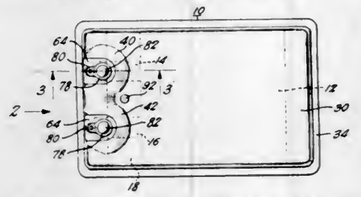
2,286,080
FREEZING TRAY
Harvey D. Geyer, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 22, 1936, Serial No. 81,172
16 Claims. (Cl. 62—108.5)

1. A freezing tray comprising a container pan and a grid within said pan, said grid comprising: a central reaction member, a stretchable grid portion disposed upon each side of said reaction member and at least partially movable relative thereto, and a lever pivoted upon said



reaction member and having an eccentric pivot upon at least one of said grid portions and actuable to stretch said grid portion relative to said reaction member.

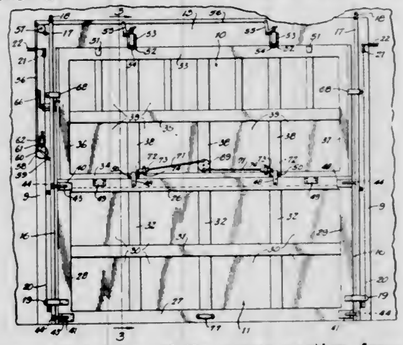
2,286,081
ELECTROLYTIC CONDENSER
Alexander M. Georgiev and Paul F. Koehly, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 19, 1939, Serial No. 285,336
5 Claims. (Cl. 175—315)



1. In an electrolytic condenser, the combination comprising, a casing member having a depression therein and apertured for reception of a terminal member, said depression providing an annular recess about the aperture therethrough, a shouldered terminal having a shank of relatively small cross section as compared with the casing aperture, an insulating washer closely fitting the shank of said terminal member and having an annular recess surrounding the said shank when the washer is mounted thereon, said shank passing through the casing aperture, and said insulator recess facing the wall of said casing member, a soft rubber washer disposed on the opposite side of said casing member and closely surrounding the shank of said terminal, a solder shield disposed over the shank and having grooves concentric with the shank engaging the soft rubber washer, and means including a part of the shank forcing the solder shield toward the insulating washer and for compressing the soft rubber washer, whereby it flows into the depressions of the insulator, the enlarged aperture of the housing member and the grooves of the solder shield, thereby effecting complete insulation of the terminal member from the housing, and completes a seal against fluid flow through said housing member.

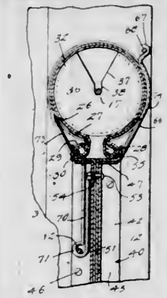
2,286,082
DOOR
Frank O. Goodman, Chicago, Ill.
Application May 1, 1940, Serial No. 332,643
4 Claims. (Cl. 20—20)

1. A multi-section overhead door comprising a door frame, upper and lower horizontal door sections, the upper section of said door being unattached to said lower section, a pair of tracks located on opposite sides of the door opening and each having a vertical rail curved inwardly at the top thereof and merging with a horizontal rail normal to said opening, bearing means upon the lower section of said door engageable with said tracks, means upon said door frame to sustain the upper section in closed position, interengaging means on the upper and lower sections



to prevent raising of the upper section from its closed position when the lower section is closed, and means upon said lower section to lift said upper section from the door frame and to carry said upper section into horizontal open position.

2,286,083
ROLLER SCREEN
Benjamin Gornetski, Laplume, Pa.
Application June 27, 1940, Serial No. 342,819
6 Claims. (Cl. 156—39)

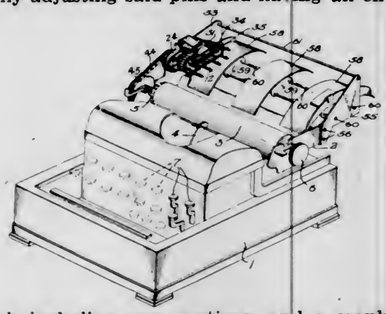


2. A mounting for a spring actuated window shade roller having a strip of flexible material secured at one end thereto and wound thereon, comprising a cover, for said roller and the rolled portion of said strip, formed of telescopic sections and provided with a slot in the under side thereof extending from end to end thereof to form a passage for the strip, and arcuately shaped bracket member secured to a side rail of a window frame for releasably engaging an end of the cover for mounting the cover in the opening of the window frame.

2,286,084
STRIP FEED FOR MANIFOLDING MACHINES
Louis F. Hageman, Niagara Falls, N. Y., assignor to American Sales Book Company, Inc., Niagara Falls, N. Y., a corporation of Delaware
Application August 4, 1937, Serial No. 157,369
12 Claims. (Cl. 271—2.1)

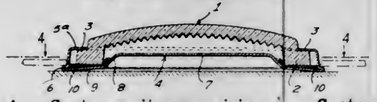
1. In a machine of the character described, in combination, strip feeding mechanism including an endless sprocket chain, a succession of feed pins respectively pivotally mounted on the links of said chain and adapted to enter and feed the strip, means for adjusting the angular

positions of said pins for movement into strip engagement and withdrawal therefrom, said adjusting means embodying connections for pivotally adjusting said pins and having an endless



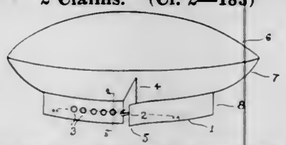
track including cam portions, and a crank for each of said pins having continuous controlling connection with said endless track for controlling the pivotal positions of the pins.

2,286,085
REFLECTOR UNIT AND METHOD OF MAKING SAID UNIT
John C. Haggart, Jr., Westfield, N. J., assignor to Signal Service Corporation, a corporation of Delaware
Application July 5, 1940, Serial No. 343,995
7 Claims. (Cl. 88—78)



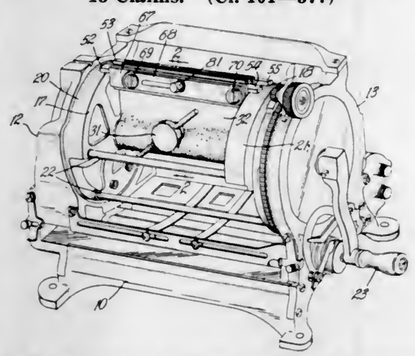
5. A reflector unit comprising a reflector element having a rearwardly extending peripheral flange radially shouldered on its front face, and a cup-shaped metallic holder, said holder comprising a peripheral flange with its outer end turned inwardly into engagement with said shoulder, a raised center fitting within the rearwardly extending reflector flange, and an annular portion connecting said raised center and the peripheral flange of said holder, said annular portion being flexed about the inner edge of the rearwardly extending reflector flange to put it under tension so that the reflector flange is resiliently held between the annular portion of the holder and the turned in flange thereof.

2,286,086
HAT
Simon Hamershlag, Brooklyn, N. Y.
Application November 19, 1940, Serial No. 366,209
2 Claims. (Cl. 2—183)



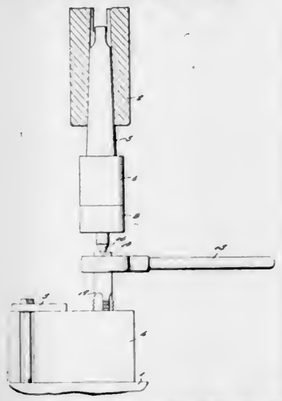
2. In a hat of the type described, an upper crown portion, a lower crown portion and head band having a vertical slit formed therein and extending into said lower crown portion, said head band having open ends, a band surface covering having its inner surface tightly stitched to the head band and its outer surface loosely stitched to the head band, said band surface covering having open ends and cooperating hook and a spaced series of eyelets attached to the respective open ends of said band surface covering, said open ends being disposed in overlapping relation.

2,286,087
PRINTING APPARATUS AND ATTACHMENT THEREFOR
William C. Hanigan, Chicago, Ill.
Application March 22, 1940, Serial No. 325,299
13 Claims. (Cl. 101—377)



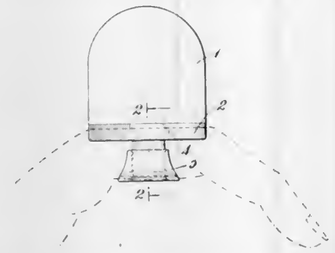
1. In a rotary printing machine, a rotatable shaft, a pair of spaced, opposed, annular spiders carried thereby and a chase holder rigidly and removably secured to said shaft and extending radially therefrom between said spiders, said holder having an enlarged head slotted throughout the length thereof to receive a plurality of type-carrying members, each end of said slotted enlarged head being closely adjacent to one of said spiders and extensions from each side of said enlarged head overlying the spiders and in contact therewith and means for clamping said members and thereby retaining them rigidly within the slot.

2,286,088
CENTER FOR TAPPING TOOLS
Joel N. Harrell, Charleston, S. C.
Application December 4, 1941, Serial No. 421,654
1 Claim. (Cl. 10—135)



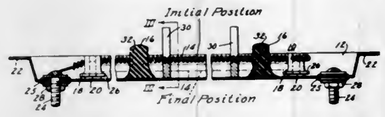
A center for use in a drill chuck or head stock for holding a tapping tool aligned with a bore to be tapped comprising a tapered shank for insertion in said chuck, a cylindrical head on one end of said shank having a reduced threaded nipple on one end thereof, a cap nut threaded onto said nipple, said head having an axial bore therethrough and said shank a counterbore extending axially from said bore of the head and forming at its juncture with the latter an internal shoulder in said head, a centering pin slidable in said nut and counterbore for advance and retraction relative to said head, a collar on said pin within said bore for engaging said nut to limit advance of said pin, and a coil spring surrounding said pin in said bore and interposed between said collar and shoulder to yieldingly advance said pin.

2,286,089
HAND ATTACHMENT MEANS FOR VIBRATORS AND THE LIKE
Sydney P. Harris, Stamford, Conn., assignor to Schick Incorporated, a corporation of Delaware
Application October 11, 1940, Serial No. 360,757
3 Claims. (Cl. 128—35)



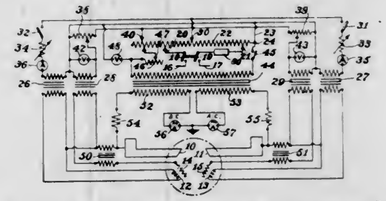
2. Hand attachment means for vibrators and the like including a base to seat on the backs of the fingers, two substantially flat, flexible portions depending therefrom and spaced approximately a finger-width apart to straddle one of the fingers, said flexible portions terminating in enlarged heads extending toward one another beneath the said finger to form, with the said flat, flexible portions, a laterally expansible open loop around such finger.

2,286,090
HEATING UNIT
John W. Harrison, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 31, 1940, Serial No. 338,091
5 Claims. (Cl. 201—67)



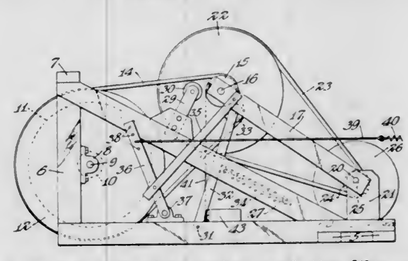
1. The method of making a heating unit having a metallic sheath member which comprises mounting insulating members within said sheath member, winding an electrical resistor about the insulating members, placing spacer means beneath the resistor intermediate certain of said insulating members for positioning the resistor a predetermined distance from one part of said sheath member, and placing an insulating material about the resistor and within the sheath member for retaining the resistor in position and for insulating it from the housing.

2,286,091
X-RAY TUBE AND SYSTEM THEREFOR
George W. Haug and Harry B. McEuen, Jacksonville, Fla.
Application July 22, 1939, Serial No. 286,027
14 Claims. (Cl. 250—102)



1. In an X-ray tube adapted to use an alternating current supply, means within the tube from which a plurality of streams of electrons will flow, means to control each of said streams so that each stream will flow during only a portion of each positive and negative half cycle of the alternating current, one of said streams being maintained by the alternate positive half cycles of the alternating current, and another of said streams being maintained by the alternate negative half cycles of the alternating current, and additional means within said tube against which said streams impinge whereby to cause X-rays to be generated during only a portion of each half cycle of the alternating current.

2,286,092
HAY LIFT
Wilfred E. Hedlund and Martin R. Hedlund, Boyceville, Wis.
Application August 4, 1941, Serial No. 405,280
5 Claims. (Cl. 74—219)



1. A hoist for hay rakes and the like comprising, a winding drum, a rotary power device including a pulley, a driven pulley connected to said winding drum, a belt connecting said power pulley to said driven pulley, means for shifting said power pulley toward said driven pulley, and a pair of pulleys adjacent said power pulley at opposite sides thereof to receive said belt when said power pulley is shifted toward said driven pulley and to maintain said belt in alignment and out of contact with said power pulley when the latter is shifted toward said driven pulley.

2,286,093
DRY SHAVER
Reginald Hicks, Yonkers, N. Y., assignor to Schick Incorporated, a corporation of Delaware
Application March 15, 1941, Serial No. 383,501
11 Claims. (Cl. 30—41)

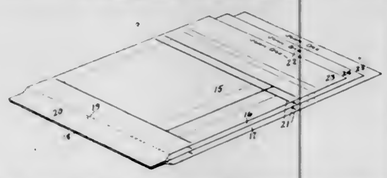
4. A hollow, open-ended cutter having a perforated, skin-engaging wall and adjoining side walls, and a spacer member uniting said side

walls, said skin-engaging and side walls being extended beyond the ends of the spacer mem-



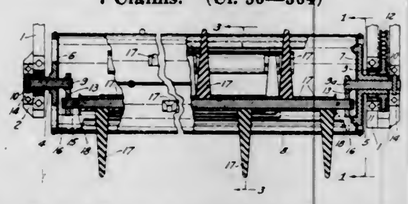
ber to form a hood at each open end of the cutter, for the purpose described.

2,286,094
SELECTIVE PRINTING
Vern C. Hollingsworth, Niagara Falls, N. Y., assignor to American Sales Book Company, Inc., Niagara Falls, N. Y., a corporation of Delaware
Application August 5, 1939, Serial No. 288,630
4 Claims. (Cl. 270—1)



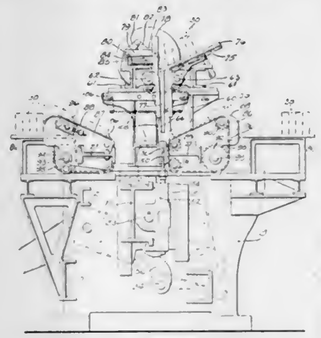
1. A method of producing printed record form sets, including: printing a plurality of long continuous webs or sheets with standard form data repeated at a multiplicity of intervals along each web, assembling in superposed relation the long continuous webs thus printed to form a long continuous web assembly, with marginal parts of the underlying web or webs extending beyond overlying web or webs in shingled relation from top to bottom of the assembly so as to expose longitudinal marginal parts of each web throughout substantially the entire length of the assembly, and then printing at a single printing operation at each of said intervals of the standard form data specialized form data at the exposed shingled marginal parts of the assembled webs throughout substantially the full length of the assembly.

2,286,095
PICKUP
George Innes, Davenport, Iowa
Application July 3, 1940, Serial No. 343,789
7 Claims. (Cl. 56—364)



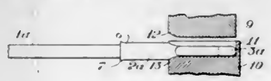
1. In a pick-up, a curved shield, an axle extending longitudinally of the shield and positioned eccentrically with relation thereto, rubber fingers located along said axle and rotatable about the same, said fingers extending through said shield and projecting therefrom different amounts in different angular positions about the axle, and actuating means for causing rotation of said fingers about said axle.

2,286,096
STILE DRILLING APPARATUS
Curt G. Joa, Sheboygan Falls, Wis., assignor to Curt G. Joa, Inc., Sheboygan Falls, Wis., a corporation of Wisconsin
Application November 6, 1940, Serial No. 364,487
23 Claims. (Cl. 144—93)



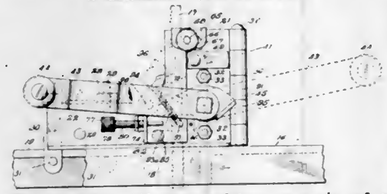
1. A device of the character described comprising the combination of means for clamping work at a drilling station, of hopper means for feeding work to such station, mechanism for relatively displacing said hopper means and said clamping means upon the completion of a drilling operation at said station, and means controlled by said mechanism for removing the drilled work piece along a path, the receiving end of which has been cleared by displacement of said hopper means.

2,286,097
TERMINAL
Welton V. Johnson, Short Hills, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 29, 1938, Serial No. 237,772
2 Claims. (Cl. 173—269)



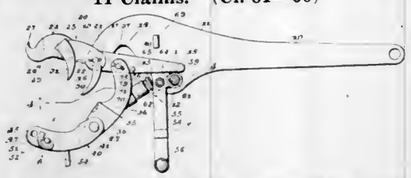
1. The method for mounting a tubular sheath terminal on a flexible conductor which comprises placing said sheath terminal over the end of said conductor, bending said sheath terminal and enclosed end of said conductor into the configuration of a loop, maintaining a guide device about said loop for preventing opening thereof, and flattening said sheath terminal and enclosed end under pressure over a substantial part of the width of said sheath for forcing opposed flattened surfaces of said sheath terminal into intimate contact with said conductor while retaining substantially said loop configuration, said flattening of said sheath serving to form opposed flattened surfaces on said loop extending in planes substantially transverse to the axis of said loop and proportioned with said sheath for resisting opening of said loop under the influence of terminal screw pressure applied thereto.

2,286,098
SAW TREATING MACHINE
Alfred William Knutson, Geneseo, Ill., assignor of one-half to Frank H. Brown and one-half to Edna Knutson Whited, both of Geneseo, Ill.
Application December 13, 1939, Serial No. 308,939
2 Claims. (Cl. 76—61)



1. In a saw setting machine, a pair of movably related plates having correlated setting portions at one edge of the plates and near one end of the plates, feeding means adjacent said edge of the plates and nearer the opposite end of the plates adapted to engage the teeth of the saw, means for locating the saw in operative relationship to the setting and feeding means including a combined stop and guide comprising a notched member adjustably secured to one of the plates and overhanging the other to present the notch in alignment with the feed of the saw, the end of the notch being disposed to engage the back of the saw in opposition to the direction of engagement of the feeding means with the toothed edge of the saw, and a limiting stop associated with the tooth-engaging means to definitely limit the amount of movement of the saw.

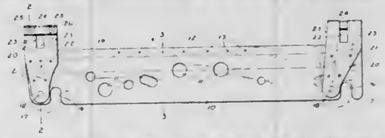
2,286,099
PIPE TONGS
Paul W. Lange and Harold A. McFarland, Casper, Wyo.
Application November 9, 1939, Serial No. 303,670
11 Claims. (Cl. 81—66)



1. Pipe tongs comprising a handle, a pair of levers and a main clamping jaw having a common pivotal connection with one end of the handle, a second main jaw having pivotal connections with the levers inwardly of the first pivotal connection, an auxiliary jaw pivotally connected to the free end of the first-mentioned jaw and provided with curved fingers at the free end thereof, a second auxiliary jaw pivoted on the free end of the second main jaw and provided with a pin adapted to be received by the curved fingers, a stop on the handle adapted to be engaged by the free end of the lever, and means on the handle for forcing one of the levers against the stop for causing the jaws to tightly grip the pipe.

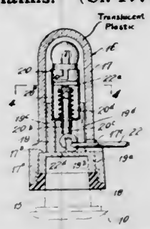
2,286,100
SHACKLE CONSTRUCTION
Roscoe I. Markey, East Orange, N. J., assignor to Pollak Manufacturing Company, Arlington, N. J., a corporation of New Jersey
Application June 8, 1940, Serial No. 339,462
4 Claims. (Cl. 89—1.5)

1. A light-weight shackle construction for bomb racks including parallel, metal stampings that are spaced from one another and that comprise side plates of the shackle, connecting structure between the side plates for holding them parallel and spaced from one another, a pivot near each end of the shackle, each of said pivots extending through aligned openings in the side plates, a bomb-supporting hook fulcrumed on each pivot between the side plates, separate straps for supporting the opposite ends of the side plates, each of said straps comprising a metal element with



end portions in surface contact with the respective side plates, and extending down on the side plates to the pivots, and integrally secured to said side plates at regions across a substantial width of the area of surface contact, and an inverted U-shaped loop connecting the upper ends of the end portions of each strap, and a hinge pin for connecting each of the straps with an airplane, each pin fitting within and being rigidly secured to the loop of one of the straps and having a width approximately equal to the distance between the surfaces of the side plates.

2,286,101
TERMINAL PLUG
Carl F. Norberg, Shaker Heights, and Richard E. Sears, Cleveland, Ohio, assignors to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Application April 11, 1940, Serial No. 329,138
5 Claims. (Cl. 177—311)

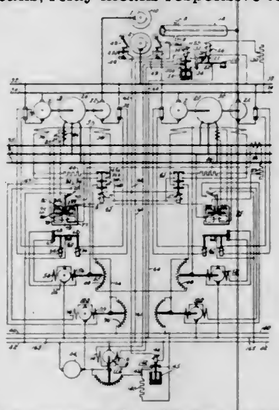


1. A terminal plug for use with a storage battery comprising an elongated body formed of insulating material at least part of which is translucent, a plug terminal and a lamp electrically connected to each other and both located in said body substantially in line with each other and substantially coaxially of the body, said plug having at its lower end a socket adapted to be fitted onto one of the terminals of the battery, the lower part of said socket being formed in the insulating material forming the lower end of the body and the upper part of the socket being formed in the plug terminal.

2,286,102
WELDING APPARATUS
John F. Peters and Ralph H. Wright, Edgewood, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 23, 1939, Serial No. 257,946
6 Claims. (Cl. 171—312)

1. In a power system, the combination of, a plurality of direct current generating means

having excitation windings for controlling the output thereof, means connecting the generating means in parallel circuit relation for supplying current to a work circuit, a driving motor connected with each generating means, regulating means controlling the excitation of each generating means, relay means responsive to changes



in the input current of a driving motor relative to the total input current of the driving motors for effecting operation of the regulating means to maintain a predetermined division of the load current between the generating means, and additional regulating means for collectively controlling the excitation of the generating means to maintain a predetermined load current.

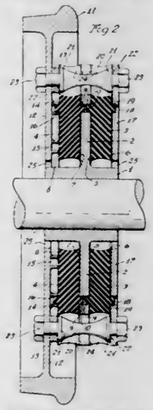
2,286,103

RAIL VEHICLE WHEEL

Emil H. Piron, New York, N. Y., assignor to Transit Research Corporation, a corporation of New York

Application December 13, 1939, Serial No. 309,055

14 Claims. (Cl. 295—11)



1. In a wheel, a hub having a rigid plate radiating therefrom, a pair of rigid plates rigidly connected in axially spaced relation with one on each side of the hub plate, springs comprising elastic shear elements interposed between said hub plate and each pair of plates, a rail engaging tire fixedly secured to one of said pair of plates for movement therewith, and an air passageway between said springs and the plate which carries said tire.

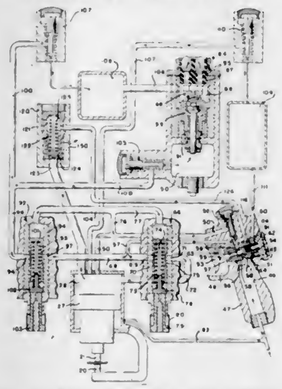
2,286,104

WELDING EQUIPMENT

Henry Thomas Platz, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan

Application November 1, 1940, Serial No. 363,936

14 Claims. (Cl. 219—4)



2. In an electric welding apparatus, an electrode movable into and out of engagement with the work to be welded, a cylinder communicating with a source of fluid under pressure through the medium of two passages, a metering valve in one of the passages for regulating the flow of fluid under pressure into the cylinder, a piston slidably mounted in said cylinder and connected to the electrode for moving the latter into clamping engagement with the work to be welded under the action of the pressure supplied to the cylinder through the metering valve controlled passage, and a valve in the other of said passages movable to its open position in response to a sufficient pressure rise in the cylinder to engage the electrode with the work.

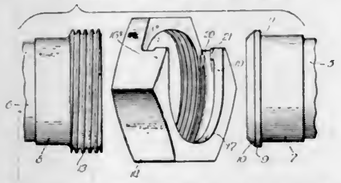
2,286,105

SANITARY PIPE COUPLING

Christopher D. Quinn, New York, N. Y., assignor to Cherry-Burrel Corporation, Chicago, Ill., a corporation

Application April 17, 1940, Serial No. 330,013

1 Claim. (Cl. 285—143)



An article of manufacture comprising a coupling nut having a segmental, internally ribbed end, said coupling nut being adapted for use in the coupling of ferruled ends of pipe sections, said segmental end of said coupling comprising in substance a major segment of a circle and having a pair of opposed flat faces at the ends of the segment of the wall of said nut and a pair of opposed flat faces at the ends of the segment of the internal rib, the ends of said segment of said wall being spaced apart a sufficient distance as to permit the ready lateral insertion of the ferruled end of a pipe section by moving the same laterally through the ends of the segment of said wall, the ends of said internal rib

being spaced apart a sufficient distance as to permit the ready lateral insertion of a pipe section carrying an elongated ferruled end by moving the pipe section laterally through the ends of the segmental rib, and inwardly projecting elements at one side of the inner ends of said segmental wall, said projecting elements being spaced apart a distance less than that required for the lateral insertion of the ferruled end of the pipe section but greater than that required for the lateral insertion of the pipe section, whereby after the ferruled end of the pipe section has been laterally inserted through between the ends of the segment of the wall of the coupling nut it may be engaged with said projecting elements to thereby support said coupling nut on the ferruled end of the pipe section.

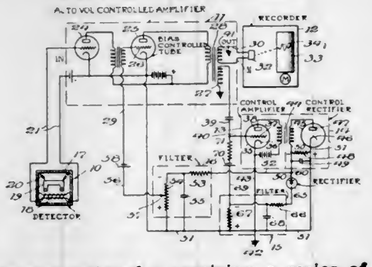
2,286,106

APPARATUS FOR AND METHOD OF RECEIVING AND RECORDING VIBRATIONS

Otto F. Ritzmann, Pittsburgh, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

Application February 9, 1939, Serial No. 255,494

7 Claims. (Cl. 177—352)



1. In apparatus for receiving a series of mechanical vibrations that begins with a relatively high amplitude portion, followed by a portion of generally less amplitude, which apparatus includes detector means adapted to detect such vibrations and to produce oscillating electrical signals of fluctuating amplitude in response to such vibrations, a signal amplifier coupled to the detector means, a signal recorder coupled to the amplifier, a primary amplifier-characteristic control circuit associated with the amplifier circuit and which is adapted on supply to said control circuit of signal energy to vary a characteristic of the amplifier in proportion to said signal energy, and on suppression of said supply to gradually produce progressively less variation in said characteristic, and means for supplying signal energy to said circuit; the improvement comprising a secondary control circuit associated with said primary control circuit and adapted on supply of signal energy to said secondary control circuit, above a predetermined amplitude, gradually to suppress and maintain suppressed said supply of signal energy to the primary control circuit, and means supplying signal energy to said secondary control circuit; whereby beginning after receipt of signal energy above said predetermined amplitude said amplifier characteristic is gradually restored to its uncontrolled value.

2,286,107

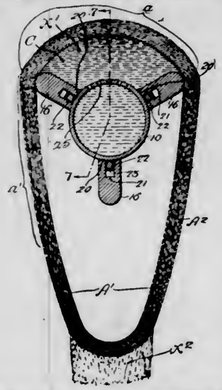
SKEIN DYER

Alexander Robertson, Mount Airy, Pa., assignor to Venango Engineering Co., Philadelphia, Pa., a corporation of Pennsylvania

Application December 11, 1939, Serial No. 308,730

1 Claim. (Cl. 68—206)

A textile processing apparatus comprising a fixed horizontally disposed tube provided with fluid discharge openings in its upper side, a material support rotatably mounted on said tube and comprising at least three bars paralleling said tube and extending radially from the axis thereof, with two of said bars in divergent relation at opposite sides respectively of the openings in the upper side of said tube to form a channel to hold fluid discharged from said openings, a pair of



heads at opposite ends respectively of said bars to tie said bars together as a unit and to cooperate therewith to produce said channel above said tube, the inner edges of said bars lying adjacent said tube being grooved from one to the other of said heads, sealing bars mounted in said grooves in contact with the outer surface of said tube, and resilient means in said grooves behind said bars to insure contact of said bars with said tube.

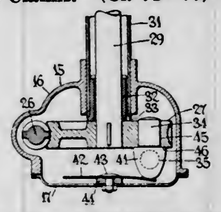
2,286,108

DRIVING MECHANISM

Raymon E. Rousseau, Buffalo, and Luke J. Strauss, Snyder, N. Y.

Application October 9, 1939, Serial No. 298,620

9 Claims. (Cl. 74—77)



1. In combination, a rotatable member, a crank pin engaged therewith in eccentric relation to the axis of rotation thereof, a resilient disc disposed in co-axial relation to said rotatable member, and means associated with said pin engaging and progressively flexing said disc.

2,286,109

REFRIGERATOR CONSTRUCTION

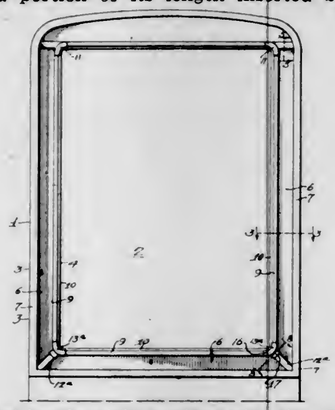
Theodore W. Rundell, Jenkintown, Pa., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application July 30, 1940, Serial No. 348,593

5 Claims. (Cl. 220—9)

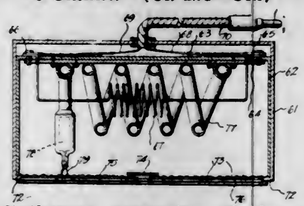
1. In a refrigerator having spaced inner and outer shells, breakerstrip sections closing the space between said shells, and means securing

said breakerstrip sections to the shells including trim strips extending along the inner edges of the breakerstrip sections; a clip connecting together and securing the end edge portions of adjacent breakerstrip sections, said clip comprising a breakerstrip engaging portion of substantially H-shape in cross-section along at least a portion of its length inserted between



adjacent breakerstrip sections with the end edge portions of the later engaged in the oppositely facing recesses formed by the H-cross-section shape of said clip portion, and a yoke portion of inverted channel cross-section shape interlockingly engaged over the trim strips at the inner edges of the breakerstrip sections to secure the clip against displacement from between adjacent breakerstrip sections.

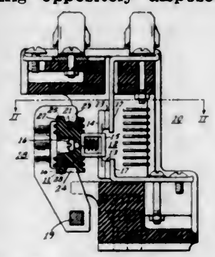
2,286,110
DIATHERMY APPARATUS
William Running, Detroit, Mich.
Application January 18, 1940, Serial No. 314,431
6 Claims. (Cl. 128—362)



1. A diathermy apparatus of the class described, comprising: a plurality of diathermy electrodes, one of which comprises a pair of screen plates edgewise disposed and insulated from each other; a gaseous discharge tube lamp mounted behind said screen plates; means for connecting the opposite terminals of said lamp to said screen plates, one of said terminals being connected to one of said screen plates and the other of said terminals to the other of said screen plates; and an electrode adjacent said lamp having an input terminal connected thereto.

2,286,111
SWITCH STRUCTURE
John W. Samzelius, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 26, 1941, Serial No. 380,665
7 Claims. (Cl. 200—166)

7. Means for supporting a switch contact member comprising a contact supporting block having recesses in opposite sides thereof, and a hook-shaped bracket for carrying said block, said bracket having oppositely disposed projections

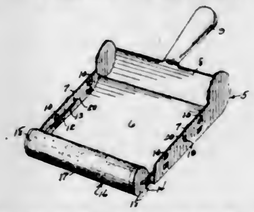


thereon cooperating with said recesses, additional recesses in said bracket and additional projections on said block, said projections being held in said recesses by creasing one side of said bracket.

2,286,112
WAX DECOMPOSITION INHIBITOR
Albert A. Schilling, Stratford, Conn., and George H. Latham, Wilmington, Del., assignors to Remington Arms Company, Inc., a corporation of Delaware
No Drawing. Application June 26, 1940, Serial No. 342,442
11 Claims. (Cl. 117—158)

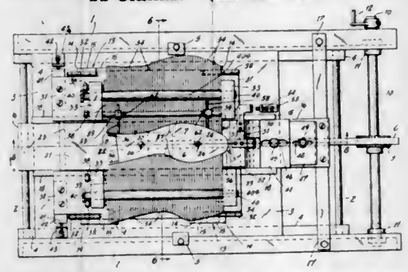
8. The process of impregnating with paraffin wax the paper tubes of shot shells, while preventing the formation therein of materials which may cause migration of the impregnating material from the paper tubes to the powder in loaded shot shells, and which may also tarnish the brass heads of said shells which comprises immersing the paper tube in a hot paraffin wax bath to which has been added at least 0.2% of its weight of polymethylated phenol material maintained at a temperature of 230°–240° F. (110°–115.5° C.) until the paper is impregnated with the bath material.

2,286,113
COMBINED SWEEPER AND DUSTPAN
Olga Schlacter, Rock Springs, Wyo.
Application August 12, 1941, Serial No. 406,545
2 Claims. (Cl. 15—41)



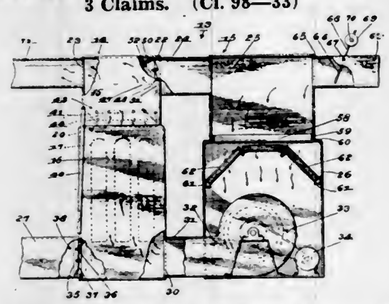
1. In a device of the character described, a dust pan open at the front and having a channel shaped portion at the rear, a bracket pivotally connected to the sides of the pan and having a brush rotatably mounted on its intermediate portion, the said bracket being movable to assume a forwardly projecting position to dispose the brush transversely in front of the pan in sweeping arrangement and movable to a rearwardly disposed position to fit the brush in the channel portion at the rear of the pan, and means on the bracket and sides of the pan for releasably fastening the brush in forward operative position or in rearward inoperative position.

2,286,114
INSOLE MAKING MACHINE
John A. Scott, St. Louis, Mo.
Application December 26, 1940, Serial No. 371,646
11 Claims. (Cl. 12—20)



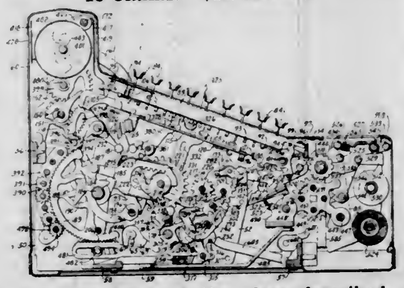
1. An insole making machine comprising an insole pattern plate adapted to support a similarly shaped insole member of foldable material with the margin of said material overhanging the edge of said pattern plate, a series of tucking fingers in position to cooperate with said overhanging margin, and means for imparting relative movement between said tucking fingers and said pattern plate to bring them into overlapping relation to thereby double said overhanging margin upon itself beneath said pattern plate to form a lasting pleat, said tucking fingers being independently adjustable towards and away from said edge of said pattern plate to conform the line defined by the working ends of said fingers to the outline of said edge of said pattern plate.

2,286,115
AIR TEMPERING APPARATUS
Jack Fenner Shelton, Memphis, Tenn.
Application September 26, 1940, Serial No. 358,551
3 Claims. (Cl. 98—33)



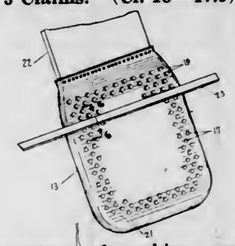
1. Air tempering apparatus for a building having a plurality of rooms, air supply registers at approximate ceiling height and return grilles at approximate floor level in each of the rooms, a blower unit and an air tempering unit, an independent plenum chamber embodied in each of the units, a connection between said chambers, an exhaust duct leading from the tempering unit, air supply ducts connecting the registers with the tempering unit plenum chamber, being adapted primarily for the pressure supply of air to said registers, return ducts connecting the grilles with the blower unit plenum chamber, being adapted primarily for the suction return of air, a duct connecting the blower unit with the tempering unit and a multiple damper arrangement including dampers located across the tempering unit, dampers located across the connection between the plenum chambers and dampers located across the exhaust duct, said three sets of dampers being interconnected, means for simultaneously operating the sets of dampers to close off and by-pass the tempering unit and at the same time to open said connection and exhaust duct for a common indraft of air from all of the rooms into all of the registers as well as all of the grilles thus to exhaust the air of the rooms from two points through both plenum chambers and out at the exhaust duct.

2,286,116
CASH REGISTER
Bernis M. Shipley, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application February 18, 1938, Serial No. 191,169
18 Claims. (Cl. 235—2)



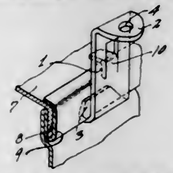
1. In a machine of the class described, the combination of a plurality of amount keys; a plurality of control keys; differentially movable actuators; means to drive the actuators; and means positioned under control of the amount keys and released, upon depression of any one of the control keys, to move into position to control the differential movement of the actuators in proportion to the value of the depressed amount keys.

2,286,117
METHOD OF MAKING PERFORATE ARTICLES
Albert E. Sidnell, Akron, Ohio, assignor to Seiberling Latex Products Company, Barberton, Ohio, a corporation of Ohio
Application May 9, 1939, Serial No. 272,586
3 Claims. (Cl. 18—47.5)



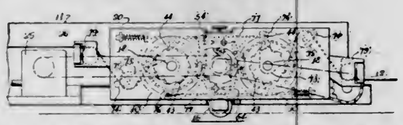
1. That method of making perforate bags which comprises providing a core with recesses therein where perforations are desired, forming and vulcanizing rubber or the like about the core with openings by pressing the rubber into said recesses, the bag thus formed having projecting nubs on the inside surface thereof pressed out of said openings and connected to said edges of said openings by comparatively thin webs of rubber, removing the bag from said core, turning inside out, and disrupting said webs of rubber to remove said nubs from the surfaces of the bag.

2,286,118
PIPE HANGER
John E. Sleeth, Spokane, Wash.
Application March 24, 1941, Serial No. 384,814
2 Claims. (Cl. 248—58)



1. A pipe hanger comprising a strip of stiff sheet metal having one end portion bent to form a laterally extending lip adapted to be secured against an overhead support, the other end portion of the strip being bent to form an upturned hook for engagement with a folded seam of a pipe, and a tongue struck from the strip and extending longitudinally thereof with its upper end free whereby the tongue may be bent downwardly into overlying engagement with a pipe to hold the hook in supporting engagement with the seam of the pipe.

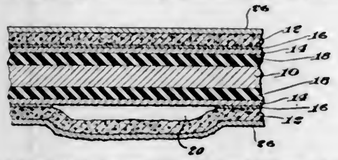
2,286,119
DRAFT DEVICE
William W. Sloane, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application April 19, 1939, Serial No. 268,678
11 Claims. (Cl. 104—235)



1. In a draft device, a frame, two winding drums mounted on said frame, a flexible cable adapted to be wound on each of said drums, means for selectively driving either of said drums, one of said drums being adapted to serve as a propelling drum and the other of said drums being adapted to serve as a retarding drum, separate friction means associated with each of said drums, for retarding rotation thereof in an unwinding direction, and means mounted on said frame and engaged by the propelling cable and having operative connection with the retarding means for the retarding drum and actuated by tension on said cable, for positively releasing the retarding means from the retarding drum and permitting said retarding means to be applied to said retarding drum upon the release of tension from said propelling cable.

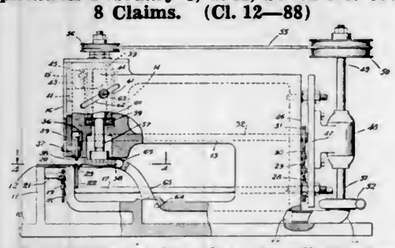
2,286,120
BUILDING MATERIAL
Purdum M. Snyder, Sewickley, Pa., assignor to H. H. Robertson Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 26, 1940, Serial No. 342,404
2 Claims. (Cl. 154—45.9)

1. A building material possessing superior weather and fire resistance comprising a metal sheet provided on both surfaces thereof with a bituminous protective adhesive layer, a thin fibrous retaining layer bonded to each side of the metal sheet by said bituminous adhesive protective layers and covering the opposite surfaces of the same, a fire resisting sheet secured to each thin fibrous retaining layer by an interposed layer of thermo responsive adhesive, and an outer weatherproofing coating enveloping said fire resisting layers, the layers of thermo responsive adhesive having melting points lower than that



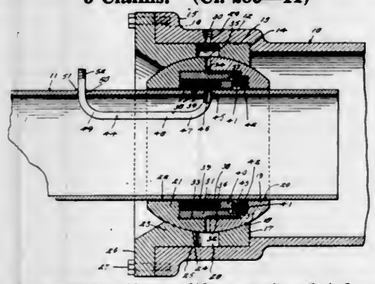
of the aforesaid bituminous protective adhesive layers whereby when the sheet is exposed to fire conditions the fire resisting layer is released from the fibrous retaining layer to permit the fire resisting layer to bulge and form insulating air pockets between it and the fibrous layer.

2,286,121
SHOE SOLE TRIMMING MACHINE
Alexander Soltan, Port Jervis, N. Y.
Application February 3, 1941, Serial No. 377,092
8 Claims. (Cl. 12—88)



1. A machine of the class described comprising a workpiece supporting table, a workpiece feed wheel having a portion of the periphery thereof protruding above the upper surface of the table to engage and feed a workpiece over said surface, means for rotating said wheel, a pressure roller arranged in alinement with said wheel, yieldable means moving the roller in the direction of the wheel to support a workpiece in engagement with said wheel, a tool operating spindle having its axis arranged at right angles to the axis of rotation of said wheel and roller, and means for adjusting the position of said spindle to move a tool thereon toward and from the periphery of the feed wheel to locate the tool with respect to the edge of the workpiece fed through the machine by said wheel.

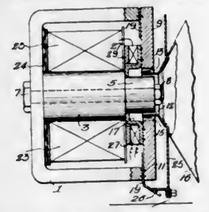
2,286,122
STEAM PIPE BALL JOINT COUPLING
William A. Stapp, Elko, Nev.
Application February 12, 1941, Serial No. 378,659
5 Claims. (Cl. 285—11)



1. In combination with a pair of telescoping

fluid conducting elements, a combined coupling and lubricating structure, a socket structure carried by the outermost element, a ball structure slidably carried by the innermost element and engaging in said socket structure, packing means carried by said ball structure, said innermost element having a pair of spaced openings therethrough, one of said openings confronting said packing means and the other opening being disposed exteriorly of said socket structure, and a U-shaped lubricant conducting pipe disposed interiorly of said inner element and having the ends thereof fixed in said openings.

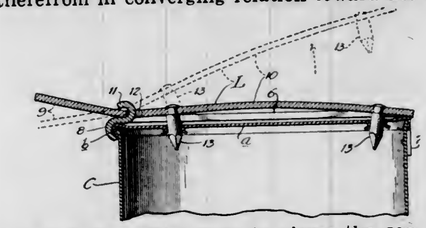
2,286,123
ELECTROMAGNETIC TRANSDUCER
William F. Steers, Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 29, 1936, Serial No. 82,579
3 Claims. (Cl. 179—115.5)



1. In a sound transducer, a magnetic structure including a central pole piece, an apertured pole piece forming with one end of said central pole piece an annular air gap, a yoke member forming a magnetic path from the other end of said central pole piece to said apertured pole piece, an armature coil in said air gap, an annular neutralizing coil connected in series with the armature coil and disposed around the central pole piece adjacent the apertured pole piece, a field coil on said central pole piece adapted to be energized by fluctuating direct current which sets up fluctuating flux, comprising two parts, one part linking both the armature coil and the neutralizing coil and the other part not linking the armature coil but tending to link the neutralizing coil, the relative strength of said parts varying with the frequency of the fluctuations of said flux, said armature and neutralizing coils being so poled that the voltages induced therein by the first part of said flux are in opposition, and a low resistance metal ring for shielding said neutralizing coil from said other part of the flux located between said field coil and said neutralizing coil, said ring being at least coextensive with said neutralizing coil and positioned closely adjacent thereto and said ring covering the entire area of the neutralizing coil facing said field winding, whereby the opposing action of the neutralizing coil is obtained without the induction of disturbing voltages therein by the second part of said flux.

2,286,124
CAN PERFORATOR AND CLOSURE
Frank F. Storck, Chicago, Ill.
Application May 13, 1940, Serial No. 334,781
2 Claims. (Cl. 220—51)

1. For use with a can having an end adjacent an annular bead, a combined opener and closure device wherein is comprised a frame adapted for extension across the can end, means depending from opposite ends of the frame in position to engage with and frictionally lock the frame to the bead in a fixed position across the can end, a lever of the second class pivoted to the frame adjacent one end thereof adapted to extend crosswise of the can end and mounted for swinging movement in a fixed path toward and from the same, the lever being formed of spring material normally bowed outwardly from the can end, a pair of widely spaced substantially cylindrical punches provided with piercing points and carried by the lever and normally projecting therefrom in converging relation toward the can

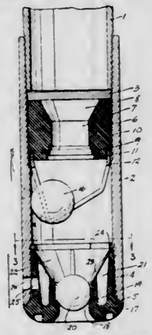


end and down thereupon to pierce the can end at two separated points, said lever, during the piercing operation, being normally straightened in a manner whereby the two openings formed in the can end are further separated than the piercing points when the piercing operation has been completed, the two punches, after release of pressure from the lever, tending to engage laterally with substantial friction against the edges of the openings formed in the can end, and to remain tensioned therein to provide a normally maintained closure therefor.

2,286,125
CHEMICAL PROCESS
Michael Sveda, Cleveland, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 19, 1940, Serial No. 370,820
5 Claims. (Cl. 260—601)

1. In a process for producing monomeric glyoxal the step comprising triturating glyoxal sulfate in an aqueous medium with a sparingly soluble carbonate of a metal having an insoluble sulfate.

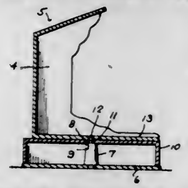
2,286,126
WELL CEMENTING APPARATUS
Charles W. Thornhill, Houston, Tex.
Application July 5, 1940, Serial No. 343,925
15 Claims. (Cl. 166—9)



1. In a casing shoe, in combination, a pipe, a check valve in said pipe for preventing up flow

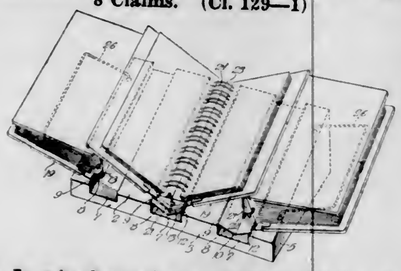
therethrough. said pipe having independent slush and cement openings therein below said check valve, a frangible closure element initially closing said cement opening and adapted to be fractured by excessive pressure within said pipe, and means independent of said first closure means and movable downwardly past said check valve for closing said slush opening so that excessive pressure may be built up to fracture said first closure means and permit flow through said cement opening.

2,286,127
RELIGIOUS SHRINE
Arthur Valliere, Newtonville, Mass.
Application January 18, 1941, Serial No. 375,067
1 Claim. (Cl. 312—33)



A religious shrine comprising a substantially triangular base, a standard secured to the base and having its upper end reduced in diameter to form a shoulder, a substantially triangular altar rotatably mounted on the reduced end of the standard, a substantially triangular intermediate section rotatably mounted on the shoulder of the standard for reversing to form ledges on the sides of the altar adjacent the apex thereof.

2,286,128
RACK
Paul O. Unger, Elmhurst, Ill., assignor to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts
Application October 20, 1939, Serial No. 300,357
8 Claims. (Cl. 129—1)

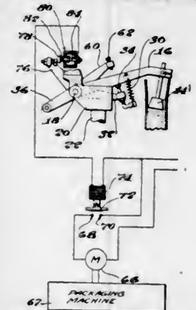


1. In a book support, a V-shaped plate, a wing less than one-half the width of said V-shaped plate hinged along one longitudinal edge of said plate, and means on said wing for securing a book thereto.

2,286,129
CATALYSIS
Preston L. Veltman, Fishkill, N. Y., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Application August 2, 1940, Serial No. 350,097
8 Claims. (Cl. 196—10)

4. In a process for manufacturing gasoline hydrocarbons of high antiknock characteristics, the steps comprising subjecting a hydrocarbon feed comprising olefins and paraffins to contact with an active catalyst comprising a metallic mixed halide containing at least two different halogen atoms in the same molecule, and effecting the contact between feed hydrocarbons and catalyst under conditions such that there is substantial reaction between the hydrocarbon constituents of the feed by chemical condensation to form normally liquid gasoline hydrocarbons.

2,286,130
PACKAGING MACHINE
Robert William Vergobbi, Quincy, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application July 24, 1940, Serial No. 347,137
6 Claims. (Cl. 226—71)

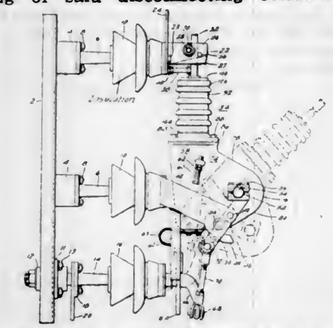


1. In a packaging machine, in combination, container supporting means for supporting a container having a load of material, means for compressing the material in the container including a plunger, means for imparting a predetermined normal plunging movement to the plunger to effect the compression of the material in the container to a predetermined level, said plunger being mounted to be capable of additional abnormal movement into the container in the event that the container has been incompletely filled, and control means comprising an electrical control circuit and connections between the plunger and said electrical control circuit for modifying the latter in the event of said abnormal movement of the plunger.

2,286,131
DISCONNECTING SWITCH
James M. Wallace, Braddock, and Herbert L. Rawlins, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 20, 1939, Serial No. 295,730
38 Claims. (Cl. 200—48)

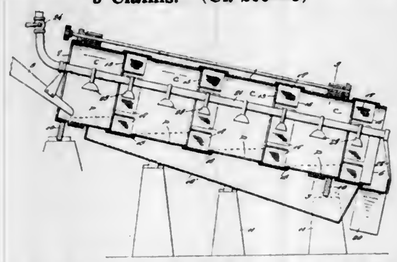
1. In a circuit interrupter, a pair of disconnecting contacts, an arc extinguishing device movably mounted and carrying one of said disconnecting contacts for movement into and out of engagement with the other of said disconnecting contacts, said arc extinguishing device having arc establishing contacts connected in series with said disconnecting contacts, a common operating member operable upon continuous movement in one direction to first break the circuit at said arc establishing contacts and to thereafter open said disconnecting contacts, and means between said operating member and said arc establishing contacts to first store energy and then release the same to cause separation of said arc

establishing contacts with a snap action prior to opening of said disconnecting contacts upon



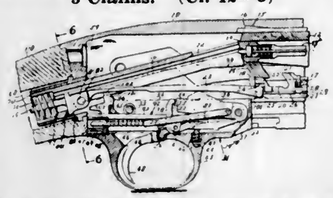
movement of said operating member to open the circuit.

2,286,132
SEPARATOR
Michael P. Walle, Hibbing, Minn.
Application November 30, 1940, Serial No. 368,075
5 Claims. (Cl. 209—6)



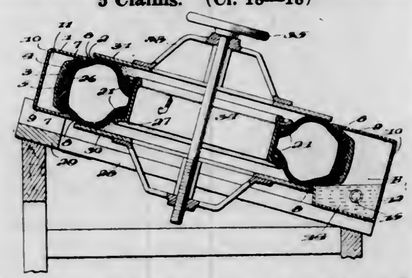
1. In a separator, a cylinder mounted for rotation with its axis extending generally horizontally but with one end higher than the other, the higher end being adapted to act as the receiving end for the materials to be separated, a series of two or more annular abutments within said cylinder, extending transversely of the interior thereof, a series of two or more relatively short foraminous sections in said cylinder each located substantially immediately adjacent each annular abutment and on the lower side thereof, the cylinder having continuous portions on the lower side of each of said foraminous sections, means located below said foraminous sections for receiving separated material discharged therethrough.

2,286,133
FIREARM
David M. Williams, Godwin, N. C.
Application October 13, 1939, Serial No. 299,227
3 Claims. (Cl. 42—3)



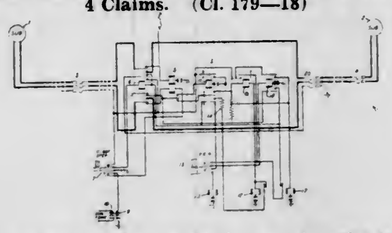
1. An autoloading firearm comprising a chamber; a chamber closing breech block; an actuator held in said breech block and displaced in said breech block through a short stroke by the firing of a cartridge in said chamber; a thrust member actuated through a long stroke by said actuator; connections for moving said breech block comprising a rod; an opening spring abutting said rod and said thrust member at all times and constructed and arranged to enable complete movement of said thrust member without displacement of said rod; a return spring abutting said thrust member, said opening spring and said return spring being energized by the movement of said thrust member by said actuator, said opening spring being within said thrust member, and said connections transmitting the force of said opening spring to said breech block.

2,286,134
TIRE RETREADING MOLD
Henry I. Houlette, Mansfield, Ohio
Application August 29, 1939, Serial No. 292,531
5 Claims. (Cl. 18—18)



5. In a tire retreading mold, a pair of substantially flat ring-like walls having registering enlargements at one side, an outer wall connecting the peripheral edges of said ring-like walls, an annular inner wall joined with the inner edges of said ring-like walls, all of said walls cooperating to form a vapor-receiving chamber, the registering enlargements serving to increase the size of the chamber at one side of said ring-like walls, said inner wall having a channel-shaped cross section and being disposed entirely between the inner and outer edges of said ring-like walls, the outer surfaces of said channel-shaped inner wall being open to direct contact by vapor in said chamber, means for supporting said mold in an inclined position with the enlargements at the lower portion, and means within the enlarged part of the chamber for producing vapor in said chamber.

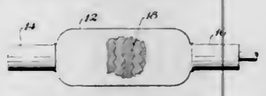
2,286,135
IMPULSE MECHANISM
Joseph A. Kater, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 20, 1940, Serial No. 370,939
4 Claims. (Cl. 179—18)



1. In an impulse mechanism, an impulse relay,

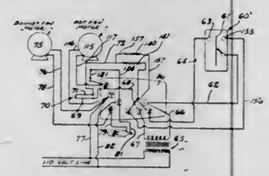
an auxiliary relay, an operating magnet, means for actuating said auxiliary relay in response to the operation of the impulse relay, a circuit for partially energizing said magnet in response to the operation of said auxiliary relay, means for fully energizing said magnet to operate in response to the release of the impulse relay and the operation of the auxiliary relay, and means for opening said circuit in response to the operation of said magnet.

2,286,136
EXPANSIBLE FABRIC COVER
Charles R. Johnson, Glenn Mills, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Continuation of application Serial No. 335,541, May 16, 1940. This application December 3, 1940, Serial No. 368,310
3 Claims. (Cl. 96—25)



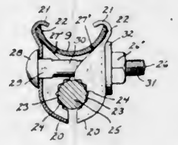
1. An expansible and contractible braided metal tubular cover or jacket for reinforcing expansible and contractible hollow bodies of elastic material, comprising braided strands of wire having the outer surfaces of the strands reduced to substantial smoothness to eliminate nicking of the strands in line contact when subjected to high pressure from within the tubular cover.

2,286,137
FURNACE CONTROL
Roy W. Johnson and Lourdes V. McCarty, Milwaukee, Wis., assignors to Automatic Products Company, Milwaukee, Wis., a corporation of Wisconsin
Application July 10, 1939, Serial No. 283,550
10 Claims. (Cl. 236—9)



9. A control for a furnace having a burner and comprising a single metering valve biased to open position and regulating the flow of fuel to the burner, a valve-operating lever overlying the valve engageable therewith to move the valve toward closed position when swung in one direction and to allow the valve to open when swung in an opposite direction, two thermostatic leaves, an electric heating element associated with each thermostatic leaf, a room thermostat for selectively energizing said electric elements, a yieldable abutment carried by said lever, one of said leaves when de-energized being engageable with said abutment to move said lever a predetermined distance to partially open said valve, and a stop to limit the movement of said leaf, the other of said leaves when energized being thereafter engageable with said abutment to move said lever a further distance to completely open said valve.

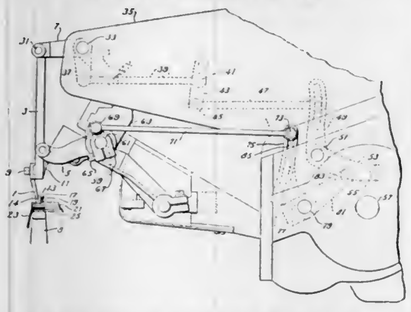
2,286,138
CYCLE SADDLE
Harold E. Kalter, Elyria, Ohio, assignor to The Troxel Manufacturing Company, Elyria, Ohio, a corporation of Ohio
Application July 13, 1940, Serial No. 345,333
8 Claims. (Cl. 155—5.24)



3. A cycle saddle clamp of the class described, said clamp consisting of a pair of similarly formed members, each member consisting of a reversely curved web portion, said web having an upturned hook end portion, a pair of depending flange portions disposed on either side of said web portion, said flange portions each being provided with serrations, securing means projected through each said web portions whereby the same are secured together to form a cycle clamp.

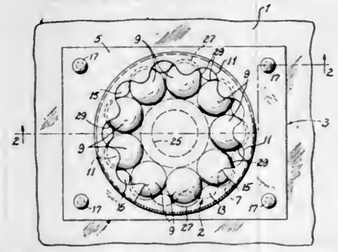
4. In a saddle assembly, a saddle, a reach member, a saddle post, a cycle clamp formed of a pair of generally S-shaped members consisting of notched side portions and end hook portions, said hook portions adapted to be suspended from said reach member and said notched side portions adapted to be disposed about portions of said post, said side portions being serrated securing means adapted to secure said clamp members together whereby said notched serrated portions of said members may securely clamp the cycle post therebetween said end hook portions may be securely engaged with said reach member.

2,286,139
SHOE SEWING MACHINE
Thomas Aubrey Kestell, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application February 21, 1941, Serial No. 380,020
In Great Britain March 6, 1940
15 Claims. (Cl. 112—60)



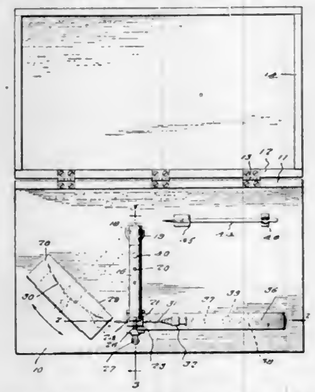
1. A shoe sewing machine having, in combination, stitch forming devices including a needle and an awl movable along separated paths towards engagement with the work, said awl being movable while engaging the work towards a position of alignment with the needle path to feed the work, a work support, and a presser foot having a work engaging end formed with a portion extending between the work engaging paths of the needle and awl to clamp the work against the work support.

2,286,140
GUIDE
Victor G. Klein, St. Louis, and Louis A. Reuter, Normandy, Mo., assignors to Lincoln Engineering Company, St. Louis, Mo., a corporation of Missouri
Application June 17, 1940, Serial No. 340,946
15 Claims. (Cl. 242—157)



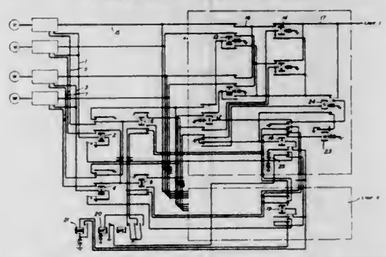
12. A guide for hose and the like comprising oppositely located cup-shaped members having openings and forming an annular recess and having scalloped edges forming said openings, the scallops of which are oppositely located, a plate sandwiched between said members and having a scalloped edge extending into the annular recess, the scallops on the cup-shaped members being staggered with respect to those on the sandwiched member, and balls in the annular recess between scallops in the plate, being opposite scallops in the cup-shaped members.

2,286,141
NEEDLE BEVEL MAINTAINER AND HONE
Jules G. Kurtz, Philadelphia, Pa.
Application May 21, 1940, Serial No. 336,468
7 Claims. (Cl. 51—157)



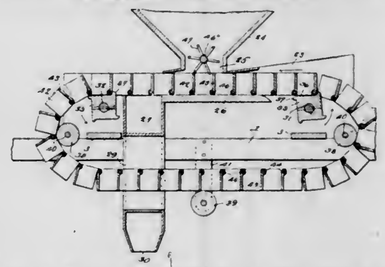
7. A hone and bevel maintainer for hypodermic needles having a bevel point, comprising a base, a bar pivotally mounted on the base, a sleeve rotatably mounted on the bar and having a series of openings therein, said bar having a corresponding series of openings therein, one series of said openings being disposed in axially angular relation to the other and the corresponding openings in the separate series being adapted to be aligned in sets upon rotation of the sleeve, a clamp carried by the sleeve and having a groove to receive the shank of a needle and support it in a predetermined position relative to the sleeve, a locking member for engagement in the selectively aligned openings of the holder and clamp to secure the needle in adjusted position, means to set the needle in the desired axial position, and an abrading element carried by the base and adapted to receive the clamped and adjusted needle thereon when said pivoted bar with its sleeve and clamp is moved thereover.

2,286,142
GUARD CIRCUIT
Frederick R. Lamberty, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 29, 1941, Serial No. 390,885
6 Claims. (Cl. 179—18)



1. In a communication system, a plurality of lines, each having a line and cut-off relay, a plurality of links, a guard circuit for supervising the connection of a calling one of said lines to one of said links, said guard circuit including a preference arrangement for changing the order of accessibility of said links by said lines, means responsive to the operation of said cut-off relay of a line upon the extension of one of said lines to a link for dismissing said guard circuit and advancing the said preference, and means repeatedly responsive to the failure of said cut-off relay to operate for automatically dismissing said guard circuit and for advancing the said preference.

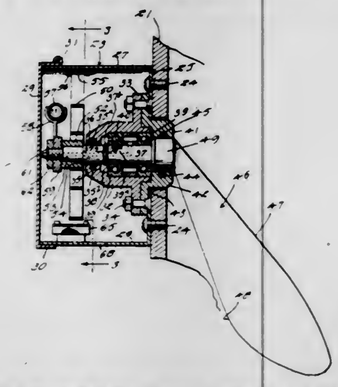
2,286,143
FERTILIZER DISTRIBUTOR
Troy H. Lee, Lumberton, N. C., assignor of one-half to Ben Coe, Robeson County, N. C.
Application March 5, 1940, Serial No. 322,397
6 Claims. (Cl. 221—128)



1. In a fertilizer distributor a structure including a channel having a closed bottom, a delivery pocket at one end of said bottom and opening upwardly into the channel, a hopper having a throat opening downwardly into the channel above said bottom, and three-sided links pivotally-connected to provide pockets open at the top and bottom and forming an endless belt movable in one direction along said bottom, one wall of each link constituting a closure for the advancing side of a pocket of an adjoining link, the walls of those links above the bottom of the channel being in contact with the channel bottom and the free

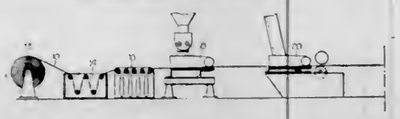
edges of the side walls of each of said links contacting the transverse wall of the adjacent link, thereby to prevent leakage of powdered material in any direction from the pockets formed thereby.

2,286,144
FLOW INDICATOR
Jonas Lien, Port Washington, N. Y.
Application January 29, 1941, Serial No. 376,555
5 Claims. (Cl. 200—52)



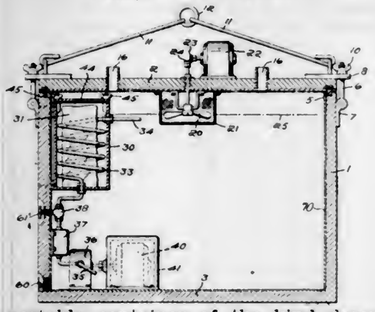
1. A flow operated circuit maker and breaker for a material conveying duct comprising a housing, a cylindrical bearing in said housing, an annular flange at one end of said bearing engaging against the outer face of a wall of said housing, a nut threaded onto said bearing for binding said flange against said wall, a shaft journalled in said bearing, an obtusely disposed operating blade fixed to said shaft and positionable in said duct, a reduced stub shaft extending from the opposite end of said shaft, a sleeve on said stub shaft, a spiral spring fixed at one end to said sleeve, clamping means carried by said housing engaging the opposite end of said spring whereby said spring may be tensioned to normally maintain said blade at right angles to the length of said duct, a threaded extension coaxial with said stub shaft, a switch holder on said extension, a switch carried by said holder, and means adjustably securing said holder on said extension.

2,286,145
ROOFING
John Logan, Jr., Chicago, Ill., assignor to The Logan-Long Company, Chicago, Ill., a corporation of Ohio
Application April 17, 1937, Serial No. 137,507
4 Claims. (Cl. 117—25)



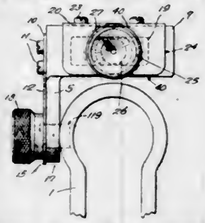
4. The method of preparing roofing which comprises moving a strip longitudinally; applying a hot coating to said strip; permitting said hot coating to cool at least partially; applying a second hot coating over a portion only of the area of said strip; and depositing grits on said strip at a time when said second coating is still hot enough to receive and retain said grits, but said first coating is too cool to retain said grits.

2,286,146
PORTABLE LOBSTER AND FISH CONTAINER
Clifton R. Look, Addison, Maine
Application February 13, 1941, Serial No. 378,701
1 Claim. (Cl. 119—2)



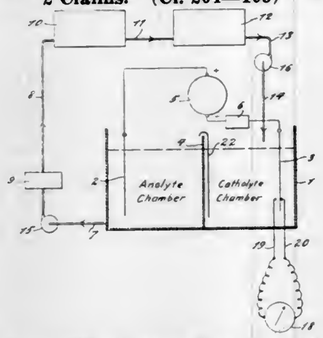
A portable container of the kind described, adapted to maintain live lobsters, fish, and the like under normal living conditions for transportation for long distances or storage for a predetermined length of time, comprising a portable water-holding tank, a lining within said tank non-injurious to the living lobsters or fish therein, a removable cover for said tank, water-tight closing means between the cover and tank, clamping means to unite said cover and tank in water-tight condition, a quantity of water covering the lobsters, fish, or the like within said tank and suitable to simulate living conditions for the amount of live lobsters, fish or the like contained therein, refrigerating means adjacent the top of said tank to permit refrigerant to be readily supplied thereto, a pipe encircling said refrigerant having one end open into the interior of the tank, and the other end open to the liquid within the bottom portion of the tank, a pump interposed between said ends to maintain water circulation around said refrigerant, a motor carried by the portable container to operate said pump, aerating means comprising a propeller and a power-actuated motor therefor carried by the cover to maintain aeration within the tank, and a plurality of air-openings thru the cover to the top of the tank to facilitate said aerating operation, whereby the liquid is cooled, circulated, and aerated simultaneously.

2,286,147
FIREARM SIGHT
Crawford C. Loomis, Ilion, N. Y., assignor to Remington Arms Company, Inc., a corporation of Delaware
Application February 27, 1941, Serial No. 380,802
4 Claims. (Cl. 33—56)



1. In a firearm sight, the combination comprising a sight lever pivoted at one end to the side of said receiver, the opposite end of said sight lever having a portion intercepting said line of sight in a plane at an angle thereto, said intercepting portion having a slot; an index arm secured at one end to said firearm by the sight lever pivot; means for securing said sight lever in different vertical positions relative to said index arm; a peep sight adjustably mounted in said slot; and a windage scale adjustably mounted on the upper edge of the slotted portion having an apron portion adapted to overlie said slot for substantially preventing light rays from passing through said slot on opposite sides of said peep sight for all adjustments of said scale relative to said slotted portion.

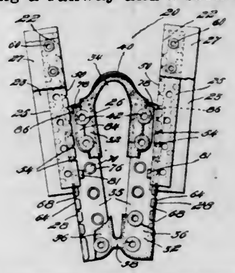
2,286,148
MANGANESE CATHODE VOLTAGE CONTROL
Charles L. Mantell, Munsey Park, Manhasset, N. Y., assignor to Electro Manganese Corporation, Minneapolis, Minn., a corporation of Delaware
Application July 11, 1941, Serial No. 401,893
2 Claims. (Cl. 204—105)



1. The process of controlling the electrolytic deposition of manganese, in the electrowinning thereof, in an electrolytic cell having an anode in an anolyte and a cathode in a catholyte said anolyte and catholyte containing manganese sulfate and ammonium sulfate, said cathode having a surface submerged in the electrolyte, said surface being adapted for the building up thereon of a sheet of manganese having a predetermined area and depth deposited thereon from the electrolyte during electrolysis, which comprises passing a direct current from the anode to the cathode through the electrolyte and maintaining the efficiency of manganese deposition by continuously maintaining the potential drop on the submerged portion of the cathode at a value not less than the polarization voltage of manganese until manganese has been deposited on said cathode to said predetermined area and depth.

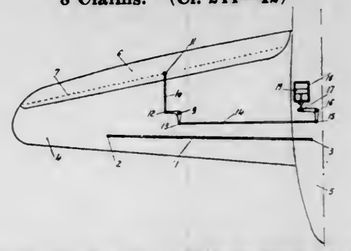
2,286,149
SEPARABLE FASTENER FOR USE IN SECURING THE EDGES OF TWO MATERIALS TOGETHER, PARTICULARLY ADAPTED FOR SHOES
Edward Gioseph Marinetti, Riverside, R. I., assignor of one-half to Arnold W. Jones and Company, Inc., Providence, R. I., a corporation of Rhode Island
Original application December 2, 1939, Serial No. 307,286, now Patent No. 2,243,737, dated May 27, 1941. Divided and this application March 21, 1941, Serial No. 384,524
8 Claims. (Cl. 24—207)

4. A separable fastener for use in securing the edges of two materials together comprising runway means attachable to each respective edge, each comprising a flexible binding strip adapted to be secured to a material portion at a spaced distance from the edge thereof, a continuous flexible runway strip relatively superimposed on and secured to the inner portion of said binding strip between said material edge and binding strip having an inner end bent outwardly at an acute angle forming a runway and a securing member,



comprising an outer layer terminating in substantially abutting relationship to and flush with each material edge, a lining layer and a continuous flexible runner strip on each edge thereof slidable on a respective runway superimposed between and secured to said layers adjacent the side edges thereof, each runner strip having an outer end bent inwardly at an acute angle forming a runner.

2,286,150
AUTOMATIC WING LIFT VARYING DEVICE FOR AIRCRAFT
Pierre Ernest Mercier, Paris, France
Application April 7, 1937, Serial No. 135,441
In France April 10, 1936
8 Claims. (Cl. 244—42)

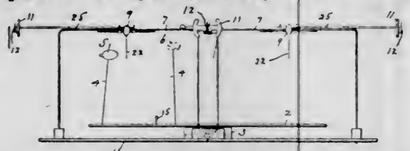


1. In a winged aircraft, means operable to vary the lift of the wings, at least one comparison element associated with the wing surface and adapted to be altered in shape by the aerodynamic forces on the wing in a manner different from the alterations in shape of the wing surface and means comprising a servo-motor operable to control by the comparison element the said lift varying means, the said servo-motor comprising a motive piston in a cylinder filled with fluid, a fluid reservoir under pressure and a fluid discharge reservoir connected respectively to the cylinder spaces on each side of the piston, a distributing valve in the said connections controlled by the comparison element and a recharging pump interposed in the connection between the reservoir under pressure and the discharge reservoir.

2,286,151
GAME
Albert W. Miller, Jr., Dundalk, Md.
Application November 24, 1941, Serial No. 420,170
2 Claims. (Cl. 273—95)

1. A game comprising a base, a table revolubly

mounted on said base, means for revolving said table, wires projecting above said table and each having an object on its upper end, wires extending across said base above said table, airplanes adapted to be operated along the last-named



wires, bombs carried by said airplanes, a shutter on each of said airplanes adjacent the bomb openings, and means for operating the said shutter to close the bomb openings when it contacts with one of the objects on the wires extending from the revolving table.

2,286,152

CYLINDER HEAD FOR SPINNING MACHINES

Raymond W. Miller, Mooresville, N. C.

Application December 5, 1940, Serial No. 368,719

3 Claims. (Cl. 74—230.3)



1. A cylinder head, for spinning machines and the like, having a hub portion, an annular flanged portion connected thereto and offset outwardly therefrom, the periphery of said flanged portion being threaded and tapered outwardly, said flanged portion having an annular inwardly opening slot for receiving an end of a driving cylinder, said threaded periphery having transverse slots opening into said annular slot and combining therewith to form a plurality of yieldable clamping members, said yieldable clamping members forming a part of the threaded periphery, and a nut for engaging said threaded periphery for compressing said yieldable clamping members to clamp the aforementioned end of the cylinder in the annular slot.

2,286,153

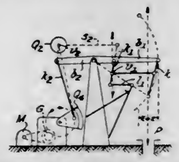
WALKING BEAM MECHANISM

Vintila Alexandru Nicolescu, Bucharest, Rumania

Application August 6, 1938, Serial No. 223,432

In Germany August 9, 1937

14 Claims. (Cl. 74—41)



1. A working-beam system for converting rotary motion into rectilinear motion and vice versa, comprising a straight balancing beam or link having a pivotal connection intermediate the ends thereof and a second pivotal connection upon one arm of the same to one side of the first pivotal connection, a second link connected to the second pivotal connection on said beam or link and having a pendent portion, a further link connected to a stationary pivot at one end and at the other end pivotally connected to said pendent portion, means for driving and thereby moving said beam or link, and means connected to the end of the other arm of the latter adapted to communicate the resultant rectilinear motion of the system to a pump, piston or valve rod.

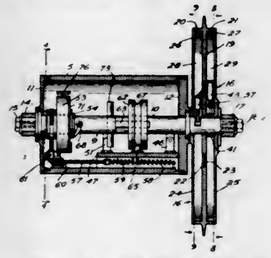
2,286,154

BICYCLE

John Norred, Chicago, Ill.

Application November 10, 1941, Serial No. 418,511

13 Claims. (Cl. 74—143)



1. In a bicycle, a housing, a divided shaft rotatable in said housing, a pedal arm fixed with each section of said shaft, a power wheel mounted about said shaft, means interconnecting said pedal arms and said power wheel for driving said wheel incident to a reciprocating movement of said pedal arms and means arranged to be actuated by a predetermined reverse movement of a pedal arm for interconnecting said shaft sections to permit driving said power wheel incident to purely rotary movement of said pedal arms.

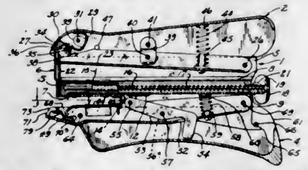
2,286,155

STAPLING MACHINE

William G. Pankonin, Chicago, Ill.

Application September 26, 1940, Serial No. 358,439

15 Claims. (Cl. 1—49)



1. In a stapling machine, a body member comprising a magazine and an ejection chute, a staple driving arm pivoted to and slidable within said body member, a top casing handle pivoted to and enclosing the top of said body member, linkage connecting said staple driving arm and said top casing handle, an anvil supporting lever pivoted to and slidable within said body member, a lower casing handle pivotally mounted on and fitting over said anvil supporting lever, and a connecting lever interconnecting said anvil supporting lever and said body member, and operable by said lower casing handle.

2,286,156

BURNER CONTROL SYSTEM

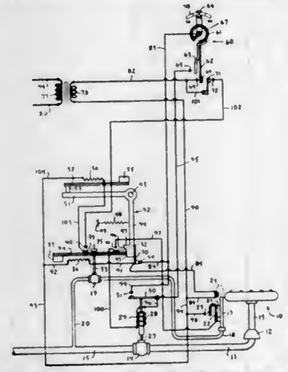
Arnold E. Petersen, New York, N. Y., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application April 22, 1939, Serial No. 269,355

15 Claims. (Cl. 158—117.1)

1. In combination, a main burner, a main valve controlling the flow of fuel thereto, a normally constantly burning pilot burner, a pilot burner

valve controlling the flow of fuel thereto, means including a remotely located device responsive to a controlling condition for controlling the operation of said main valve, means located remotely from said burners for causing closure of



said pilot burner valve, and means operative upon said valve being so closed and upon said condition responsive device calling for burner operation to open said pilot burner valve and cause ignition of said pilot burner.

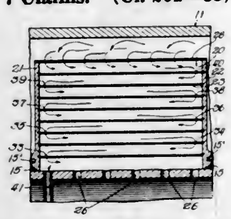
2,286,157

METHOD OF SECURING COUNTERCURRENT CONTACT BETWEEN FLUIDS

Walter J. Podbielniak, Chicago, Ill., assignor to Benjamin B. Schneider, Chicago, Ill.

Application August 6, 1937, Serial No. 157,814

7 Claims. (Cl. 261—83)



1. In apparatus for effecting counter-current contact between fluids of different densities, a housing, a rotor rotatably mounted therein and means for rotating said rotor, said rotor comprising a spirally wound sheet forming a passageway of increasing radius, said sheet having a series of rows of openings adjacent to the side edges thereof, each row of openings along the respective sides of the sheet being spaced from each other and the rows of openings along one side being staggered with respect to the rows of openings along the other side, the number of openings in each row increases progressively as the rows of openings recede from the core end of the spiral sheet, and the spacing between the said rows of openings also increases progressively as the rows recede from said core end.

2,286,158

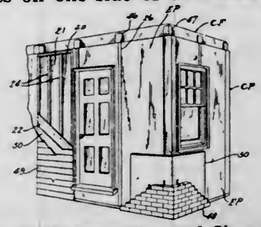
BUILDING UNIT

Arthur W. Remmel and Roy H. Brent, Milwaukee, Wis., assignors to Harnischfeger Corporation, Milwaukee, Wis., a corporation of Wisconsin

Application October 13, 1939, Serial No. 299,230

4 Claims. (Cl. 189—34)

1. A building unit adapted for connection with similar units to form a building frame, and comprising two steel channel-shaped studs, wood girts spanning said studs and fitted between the flanges thereof, and a layer of insulation secured to said girts on one side of said unit and con-



sisting of on inner layer of wood fiber board and a plywood covering spaced by furring strips forming dead-air spaces therebetween, said furring strips completely extending around the border of said board.

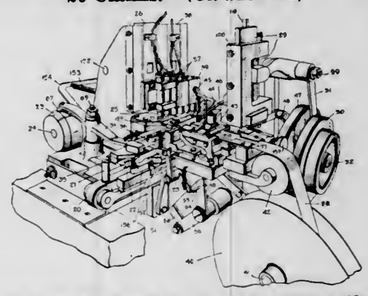
2,286,159

ARTICLE SEALING AND LABELING MACHINE

Warren S. Reynolds, Stratford, Conn., assignor to Remington Arms Company, Inc., a corporation of Delaware

Application August 19, 1939, Serial No. 291,106

20 Claims. (Cl. 216—24)



1. In the application of seals with a thermoplastic adhesive to an article, the method comprising the steps of preliminarily attaching the seal to the article by heating a portion thereof, and then affixing the seal to the article by heating the entire area of the seal.

2,286,160

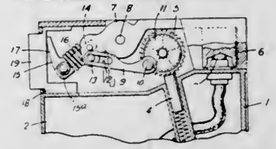
PYROPHORIC LIGHTER

Percy Searle Richards, London, England, assignor to The Parker Pipe Company Limited, London, England

Application December 22, 1941, Serial No. 424,082

In Great Britain December 31, 1940

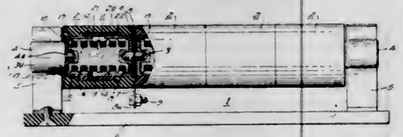
6 Claims. (Cl. 67—7.1)



1. In a pyrophoric lighter, a casing, an arm pivoted to the casing and carrying a wick cover, a rotary abrasive wheel mounted on the casing, a link connecting the wheel with the arm, a pivoted lever for actuating the arm and connected therewith to form a toggle joint and a snap-over spring operatively connected with the pivotal

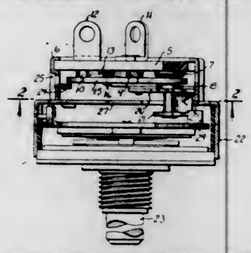
point of the toggle joint to effect the rapid rotation of the arm about its pivot and the simultaneous rotation of the abrasive wheel when the toggle joint has been moved past the dead centre position.

2,286,161
ELECTRICAL RESISTANCE UNIT
Herbert T. Rights, Verona, and Uel L. Smith, Morris Plains, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 19, 1939, Serial No. 310,030
14 Claims. (Cl. 201—63)



1. In an electrical resistance unit, a pair of spaced, cup-shaped, electroconductive members each having a substantially cylindrical wall portion completely closed at one end by an end portion, said cylindrical wall portions being spaced from each other along a common axis and having their open ends adjacent each other, an insulating cover surrounding said wall portions and bridging the space therebetween, said insulating cover intimately engaging said wall portions to form with said electroconductive members a substantially sealed casing, an electrical resistance element positioned within said casing, said resistance element being spaced from and substantially surrounded by said electroconductive members, and means for connecting each terminal of said resistance element to an adjacent, separate one of said electroconductive members, whereby said electroconductive members electrically shield said resistance element.

2,286,162
SWITCH CONSTRUCTION
Newton C. Schellenger, El Paso, Tex., assignor to Chicago Telephone Supply Company, Elkhart, Ind., a corporation of Indiana
Application October 20, 1939, Serial No. 300,321
9 Claims. (Cl. 200—67)



1. In a snap switch for closing and opening an electrical circuit: a movable contact assembly constrained to oscillatory motion about a fixed axis and comprising a carrier, a bridging contactor having yieldable contact engaging portions and a connection between the carrier and the contactor held tight by spring tension as long as the yieldable contact engaging portions of the contactor are free so that the contactor and its carrier are movable as a unit without relative motion therebetween; and a pair of spaced stationary contacts arranged on a line substantially radial to said fixed axis so that one contact is closer to the axis than the other, said contacts being so positioned with relation to the arcuate motion of the movable bridging contactor that during switch closure engagement is first effected between the stationary contact nearest the pivot axis and its cooperating portion of the bridging contactor and in opening disengagement is last effected between said inner contact and its cooperating portion of the bridging contactor, so that closure and opening of the electrical circuit controlled by the switch takes place between the stationary contact farthest from said fixed axis and its respective contact engaging portion of the contactor which moves faster and farther than the other contact engaging portion.

2,286,163
SWITCH CONSTRUCTION
Newton C. Schellenger, El Paso, Tex., assignor to Chicago Telephone Supply Company, Elkhart, Ind., a corporation of Indiana
Original application May 2, 1938, Serial No. 205,399, now Patent No. 2,211,706, dated August 13, 1940. Divided and this application June 17, 1940, Serial No. 340,970
2 Claims. (Cl. 200—67)



1. In an electric switch: a base of insulating material; a stationary contact member mounted on the base, said contact member having angularly disposed contact and terminal portions the former fitting against the outer face of the base and the latter projecting through a hole in the base and being exposed on the inner face of the base; a contactor movable to and from engagement with the stationary contact member; and means for providing lubricant to the contacting surfaces of the stationary contact member and the contactor comprising, a hole through the base adjacent to the contact portion of the stationary contact and under the terminal portion thereof so that said hole and the terminal portion covering it provide a lubricant reservoir opening to the inner face of the base adjacent to the contact portion, and lubricant in said reservoir.

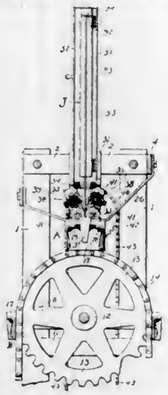
2,286,164
ART OF COLORING FRUIT
Jagan N. Sharma, Berkeley, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application February 24, 1934, Serial No. 712,831
8 Claims. (Cl. 99—103)

1. In a process of treating whole fruit provided with water repellent surfaces, the steps of contacting the fruit with an aqueous medium containing an oil soluble and substantially water-insoluble dye in colloidal suspension, said dye being of a color adapted to enhance the varietal color of the fruit being treated, and a surface tension reducing agent, for a time sufficient to impregnate the skin of the fruit with the said dye and impart a varietal coloration thereto, and

subsequently contacting the fruit with a liquid containing a dye of substantially the color of the stem of the fruit for a period of time sufficient to impart a desired coloration to the stem of the fruit but not sufficient to impregnate the outer skin of the fruit with the said dye.

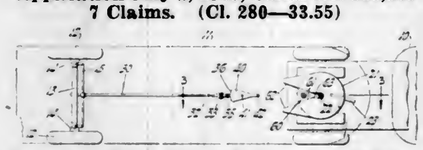
5. The method of improving the natural coloration of the skin of citrus fruit which comprises, applying to the fruit a dye composition consisting substantially of water, an oil-soluble, water-insoluble dye, and an aquasolufacient, whereby to deposit said dye within and upon the skin of the fruit.

2,286,165
CONE JACKET APPLYING MACHINE
James Balton, Baltimore, Md., assignor to Maryland Baking Company, Inc., Baltimore, Md., a corporation of Maryland
Application October 3, 1940, Serial No. 359,605
5 Claims. (Cl. 214—8.5)



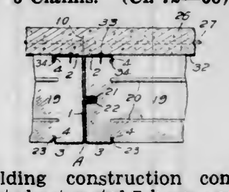
5. In combination with a magazine for a stack of nested jackets, a hollow-conical-jacket-dispensing mechanism, and a jacket-receiver spaced below the same, of means for guiding the jackets while they are passing from the dispensing mechanism to the receiver, said guiding means being carried by said magazine and passing through the jackets and the dispensing mechanism to a point adjacent said receiver.

2,286,166
AUTOMATIC COUPLING MEANS FOR TRACTOR-SEMITRAILER COMBINATIONS
Michael A. Carmody, Buffalo, N. Y., assignor of one-half to Henry Schaefer, Jr., Buffalo, N. Y.
Application July 2, 1940, Serial No. 343,625
7 Claims. (Cl. 280—33.55)



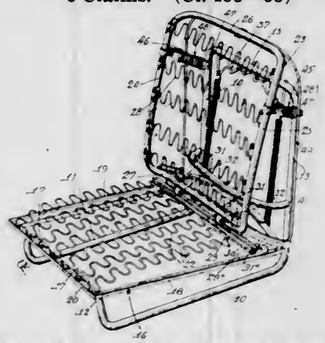
1. In a tractor-semi-trailer combination, including an upper and a lower fifth wheel incorporating pivotal coupling elements therebetween, said lower fifth wheel being formed with a radial slot, said upper fifth wheel being formed with an arcuate slot substantially concentric with said coupling elements, ground-engaging supports for said trailer, means interconnecting said supports for steering, means to steer said supports as said tractor assumes an angle with respect to said semi-trailer, said steering means including a shaft connected to and extending forwardly from the steering means, a steering member slidably mounted in the arcuate slot of said upper fifth wheel and held thereby against axial movement, said member having a steering element for engagement with the slot of said lower fifth wheel, said element being maintained in the slot of said lower fifth wheel against radial movement with respect to said coupling elements, a telescopic steering arm connected adjacent one of its ends to said steering member and pivotally connected to said trailer adjacent its other end, and means interconnecting said shaft and said arm so constructed and arranged that the trailer supports are turned in a direction opposite to that assumed by the tractor.

2,286,167
FABRICATED BUILDING UNIT AND CONSTRUCTION EMBODYING THE SAME
Clarke F. Davis, Short Hills, N. J., assignor to American Cyanamid & Chemical Corporation, New York, N. Y., a corporation of Delaware
Application November 13, 1939, Serial No. 304,069
6 Claims. (Cl. 72—68)



1. A building construction comprising two spaced apart sheet metal I-beams each including two complementary sections tongued and grooved together, and thin sheet material extending between I-beams and overlying the top flanges thereof with generally rectangular metallic bridging members extending between the webs of said I-beams, each of the complementary sections of the I-beams having strengthening edge portions extending at an angle to its flange, said bridging being provided with top and bottom notches at each of its ends, receiving and straddling the strengthening edge portion of the sections between which it extends.

2,286,168
SEAT CONSTRUCTION
Hyland C. Flint, Royal Oak, and Donald Fryer, Detroit, Mich., assignors to Patent Sales, Inc., Detroit, Mich., a corporation of Michigan
Application July 29, 1940, Serial No. 348,188
6 Claims. (Cl. 155—53)

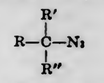


1. In a device of the character described, a

rigid support including an upright for resting on a supporting surface, a substantially horizontally extending seat frame mounted adjacent one end thereof on said rigid support, a substantially vertically extending back rest frame supported by said seat frame adjacent the free end thereof for substantially vertical movement therewith, means supported between said upright and said back rest frame for resisting rearward movement of said back rest frame and for permitting said vertical movement with respect to said fixed support responsive to the movement of said seat frame, means associated with an upper portion of said upright having a plurality of points of attachment, an extension spring secured between the free end of said seat frame and one of said points of attachment for resisting movement of said seat frame in one direction, and compression means on said rigid support for controlling the movement of said seat frame in the other direction, said points of attachment varying in distance from said seat frame to predetermine the tension of said extension spring.

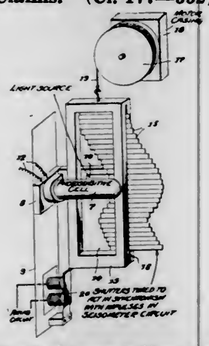
2,286,169
AROMATIC SUBSTITUTED METHYL ESTERS OF HYDRAZOIC ACID AS INSECTICIDES
Ingenuin Hechenbleikner, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application May 31, 1940, Serial No. 338,046
4 Claims. (Cl. 167—30)

1. An insecticidal composition including a toxic amount of a compound of the general formula:



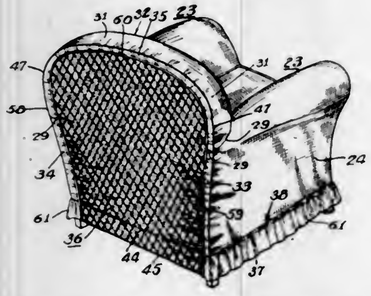
in which R is an aryl radical and R′ and R″ are selected from the group consisting of hydrogen and an aryl radical.

2,286,170
SELECTOR SYSTEM FOR AMPLIFIERS
Carl A. Helland, Denver, Colo., assignor to Helland Research Corporation, Denver, Colo., a corporation of Colorado
Application July 26, 1937, Serial No. 155,777
9 Claims. (Cl. 177—352)



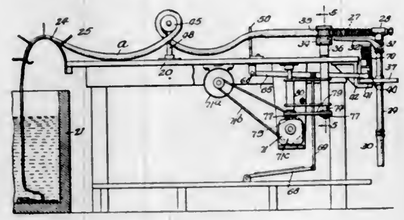
1. In a geophysical prospecting system that includes means for measuring and recording the amplitude of waves after their passage through the earth being surveyed and including a circuit for transmitting electrical impulses from a detector to a recorder; means for preventing operation of the recording device by insignificant waves that reach the pickup device at definite intervals during the arrival of the significant waves, said means comprising a second circuit connected with the transmitting circuit and arranged to attenuate signals transmitted by the said transmitting circuit to an amplitude insufficient to operate the recorder when the said second circuit is energized, a time-controlled mechanism for energizing the said second circuit at intervals in predetermined sequence, and means for setting the said time-controlled mechanism in operation in synchronism with the arrival of waves at the detector.

2,286,171
SLIP COVER
George S. Krasnov and Norman I. Krasnov, Melrose Park, Pa.
Application November 27, 1941, Serial No. 420,724
4 Claims. (Cl. 155—182)



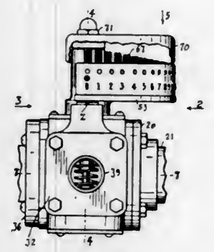
1. A slip-cover for overstuffed upholstered furniture having seat, arms and back, said slip-cover being formed of relatively non-stretchable woven textile fabric panels joined together and covering the seat and enveloping said arms and covering the sides and front of the furniture and also covering the front and top and side surfaces of the back of the furniture and extending slightly behind the back along the top and side peripheral margins of the rear surface of the back of the furniture to form inturned margins behind the back of the furniture of more or less uniform width, a stretchable and self-contracting tensioning and breather textile panel of a shape generally similar to the shape of the rear surface of the back of the furniture and of an area less than the rear surface-area of the back of the furniture, disposed behind the back of the furniture and substantially concealed from view from the front of the furniture and joined to the in-turned marginal portions of the non-stretchable woven textile fabric of the main body of the slip-cover along the side and top marginal portions thereof behind the back of the furniture, thereby to tension the non-stretchable woven textile portions of the slip-cover both horizontally and vertically around the furniture and to permit the relatively non-stretchable woven textile panels of the slip-cover to yield or to "breathe" responsive to stresses or pull exerted upon such panels while the slip-cover is in use without tearing or rupturing the sewn seams by which such relatively non-stretchable woven textile panels of the slip-cover are joined to each other, and anchorage means connected with the lower marginal portions of said slip-cover and extending beneath the lowermost horizontal frame portion of the furniture and detachably secured in place therebeneath.

2,286,172
APPARATUS FOR TESTING INTESTINES
Frank G. Leavenworth, Elmhurst, Ill., assignor, by mesne assignments, to Packers Machinery Company, Chicago, Ill., a corporation
Original application September 23, 1937, Serial No. 165,329. Divided and this application December 26, 1939, Serial No. 310,903
6 Claims. (Cl. 73—51)



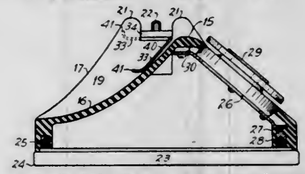
1. In apparatus for inspecting intestines, the combination of means for delivering fluid into and distending the intestine, means for advancing the intestine for inspection of successive portions thereof, and an element around which an inflated portion of the intestine can be looped to render opposite sides thereof visible as it is being advanced by the advancing means, said element being supported at one end and free at its other end for the placement of the loop of the intestine on and its removal from the element.

2,286,173
APPARATUS FOR PROPORTIONING THE FLOW OF FLUIDS
John J. Maxon, Muncie, Ind., assignor to Maxon Premix Burner Company, Muncie, Ind., a corporation of Indiana
Application November 14, 1939, Serial No. 304,377
5 Claims. (Cl. 277—3)



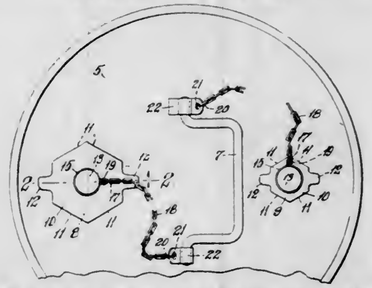
2. Apparatus of the kind described, comprising a valve for the air, and a valve for the fuel, an arm structure operable to move the air valve, a spring to urge the fuel valve toward closed position, a push rod carried by the fuel valve and operable to resist said urge, successively arranged pins carried by said arm structure in line with said push rod, each being individually adjustable with relation to said push rod, means to secure each of said pins in the position to which the latter is adjusted, and a flexible bridging strip fixedly secured to said arm structure and carried thereby in position between said successively arranged pins and the said push rod.

2,286,174
DESK TELEPHONE SET
Herbert F. Obergfell, River Forest, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Original application July 9, 1938, Serial No. 218,356. Divided and this application April 12, 1940, Serial No. 329,261
10 Claims. (Cl. 179—146)



1. In a desk telephone, a cover formed in one piece comprising side walls each having a pair of spaced pillars forming the hand telephone cradle supports, a rear inwardly and upwardly sloping surface between said side walls merging into a top surface, and a channel formed by said side walls and rear surface, and a fingers lifting plate pivotally mounted between said pillars and extending within said channel said plate normally resting in said channel out of the way during the removal and replacement of the hand telephone from the cradle supports to provide a full finger grip of the hand telephone by the user and said plate manually movable within said channel thereby providing a fingers grip for moving the entire desk telephone.

2,286,175
ANCHORED DRUM PLUG FIXTURE
Louis B. Wackman, Richmond Heights, Mo.
Application August 30, 1940, Serial No. 354,905
3 Claims. (Cl. 220—39)

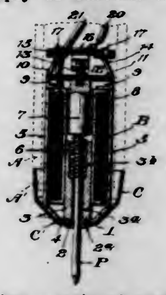


3. A closure plug for a metallic container, said plug having a concentrically disposed portion projecting from the outer end thereof, a bead formed on the extending end of said projecting portion, a split slip-ring clamped on said bead, a shouldered element on the ring for freely securing the ring on the bead against seizing engagement, and securing means connecting said element and the container.

2,286,176
MOTOR ASSEMBLY
Earl D. Boisselier, Glen Ellyn, Ill., assignor, by mesne assignments, to Earl Products Company, Chicago, Ill., a corporation of Illinois
Application October 25, 1938, Serial No. 236,953
2 Claims. (Cl. 172—126)

1. A tool operating reciprocating motor assembly comprising a solenoid coil, a tool actuating armature reciprocable in said coil, mount-

ing means for said coil comprising a pair of arms means on said arms to secure the coil between said arms, spring means tending constantly to urge said armature in one direction relative to said coil, said coil being effective, when energized, to move said armature in the opposite direction relative to said coil, an insulating disc held by said arms in fixed relationship to said coil and limiting movement of said armature by said spring means, an insulating strip held by said arms in fixed relationship to said coil, a switch controlling supply of current to said coil, said



switch comprising a pair of contacts carried by said insulating strip, a yieldable mounting for at least one of said contacts tending constantly to urge it away from the other contact, and means whereby said armature, when urged against said stop means by said spring means, holds said yieldably mounted contact engaged with the other contact thereby completing the coil circuit, and releases said yieldably mounted contact to permit it to separate from the other contact when the coil is energized and the armature thereby is moved against said spring means.
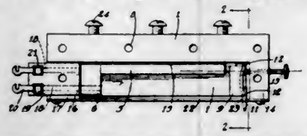
2,286,177
SLICER
Sigmond Fabian, Chicago, Ill.
Application April 1, 1941, Serial No. 386,352
1 Claim. (Cl. 146—168)



In a vegetable slicing device, the combination of a fixed body portion equipped with top flanges, a horizontally sliding channel-like portion and a vertically removable, adjustable grader having an arm on each end, said fixed body portion bearing at its inner end a rigidly held slicing edge, said horizontally sliding channel-like portion having disposed at its inner end a vertical bracket, said bracket comprising a series of notches, said notches engaging corresponding portions of the lower part of the said grader while its two end arms rest on the top flanges of the fixed body portion.

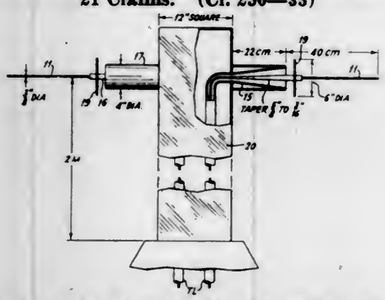
2,286,178
PHONOGRAPH RECORDER
Otto Kornei, Cleveland, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio
Application February 7, 1940, Serial No. 317,621
13 Claims. (Cl. 179—100.41)

1. A piezoelectric record cutter having only one resonant frequency within its useful frequency range, said cutter comprising the combination of: a plate-like piezoelectric unit clamped between strips of resilient material for edgewise operation and having, when in operation, an edge which includes a first portion which moves an appreciable amount out of the plane of said unit and an adjacent second portion which moves a negligible amount out of the plane of the unit; an elongated stylus; and means for securing said stylus lengthwise along said edge of



the unit and for constraining said stylus to move with said first edge portion as a unitary part thereof in pivotal relationship to said second portion, said securing means comprising: a pair of spaced notch-like stylus seats adapted to engage said stylus near its opposite ends and secured inflexibly to said edge to couple said unit rigidly to said stylus when the latter is firmly seated in said seats; and stationary means for clamping said stylus firmly in said seats.

2,286,179
WIDE BAND ANTENNA
Nils E. Lindenblad, Rocky Point, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application July 10, 1940, Serial No. 344,683
21 Claims. (Cl. 250—33)

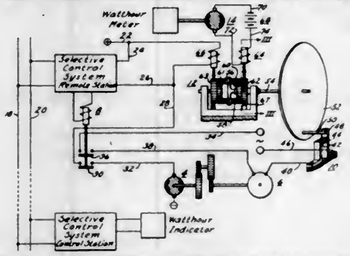


1. An antenna comprising a radiating conductor element having a length of the order of a quarter of the operating wavelength and having conductively mounted transversely thereon at a point intermediate ends a conductor disc and means for energizing said element connected to one end thereof.

2,286,180
REMOTE METERING SYSTEM
George W. Pickels, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 13, 1941, Serial No. 392,239
7 Claims. (Cl. 177—351)

5. In an impulse type remote metering system, an impulse generating means comprising a circuit make-and-break device, an actuating means for said make-and-break device, and an impulse circuit controlled by said make-and-break device, means for substantially simultaneously selectively rendering said actuating means inoperative and operative and said impulse circuit inoperative and operative respectively, and

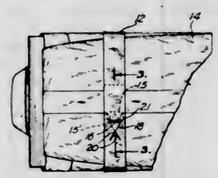
means controlled by said make-and-break device for rendering said impulse circuit inoperative when the make-and-break device has stopped in



closed-circuit position until the make-and-break device has moved to the next open circuit position upon the next actuation of the make-and-break device.

2,286,181
WRAPPING BAND AND SECURING MEANS
James W. Steele, North Kansas City, Mo.
Application April 14, 1941, Serial No. 388,454
1 Claim. (Cl. 24—17)

A wrapping band and fastening construction for securing the band about a folded garment, comprising a long and relatively narrow strip of thin paper material forming a flexible band having one of its ends formed with a flexible tongue having a reduced neck portion and its opposite end provided with an X-shaped slit structure forming flexible tabs tapering toward each other and movable in unison as said tongue

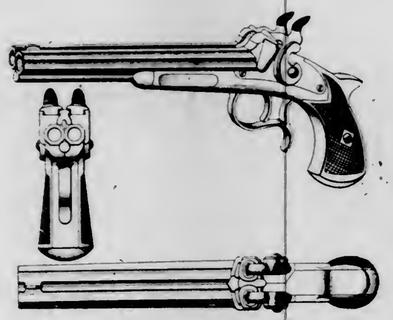


is thrust in between the tabs and through the band, said tongue being bent back upon itself along with an underlying tab for engagement between the body of the band and object to which the band is applied, the neck portion of said tongue being sufficiently elongated to permit preliminary adjustment of the tongue after insertion for tightening purposes prior to bending of the tongue into fastening position.

DESIGNS

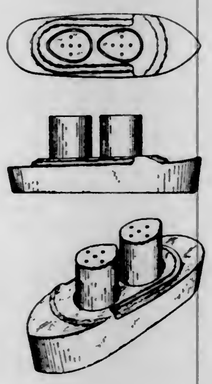
JUNE 9, 1942

132,661
DESIGN FOR A TOY PISTOL
Jacob E. Brubaker, Lancaster, Pa., assignor to The Hubley Manufacturing Company, Lancaster, Pa., a corporation of Pennsylvania
Application December 16, 1940, Serial No. 97,367
Term of patent 7 years



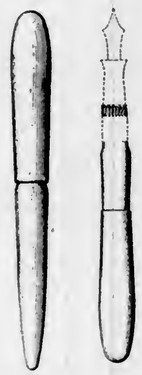
The ornamental design for a toy pistol, substantially as shown.

132,662
DESIGN FOR A COMBINED SALT SHAKER, PEPPER SHAKER, AND TRAY THEREFOR
Samuel J. Carnes, Camden, Ark.
Application December 30, 1941, Serial No. 104,906
Term of patent 3½ years



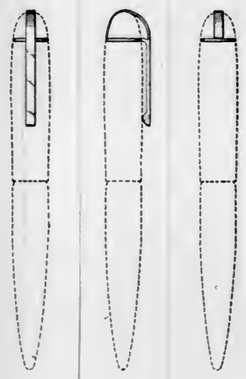
The ornamental design for a combined salt shaker, pepper shaker, and tray therefor, as shown.

132,663
DESIGN FOR A FOUNTAIN PEN OR SIMILAR ARTICLE
Henry Dreyfuss, New York, N. Y.
Application February 26, 1940, Serial No. 90,508
Term of patent 14 years



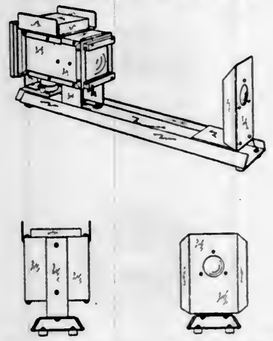
The ornamental design for a fountain pen or similar article, substantially as shown and described.

132,664
DESIGN FOR A FOUNTAIN PEN OR SIMILAR ARTICLE
Henry Dreyfuss, New York, N. Y.
Application February 1, 1941, Serial No. 98,652
Term of patent 14 years



The ornamental design for a fountain pen or similar article, substantially as shown and described.

132,665
DESIGN FOR A PROJECTING LANTERN
Charles F. Dutton, Rocky River, Ohio
Application November 29, 1941, Serial No. 104,394
Term of patent 14 years



The ornamental design for a projecting lantern, substantially as shown and described.

132,666
DESIGN FOR A CONDIMENT HOLDER
Jacob Fess, Chicago, Ill.
Application December 8, 1941, Serial No. 104,533
Term of patent 14 years



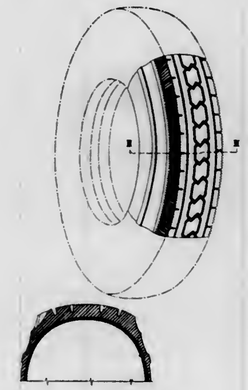
The ornamental design for a condiment holder, as shown.

132,667
DESIGN FOR A BADGE OR SIMILAR ARTICLE
Edward Flood, New York, N. Y.
Application January 23, 1942, Serial No. 105,386
Term of patent 14 years



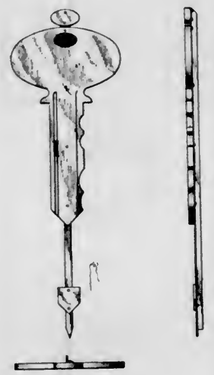
The ornamental design for a badge or similar article, as shown.

132,668
DESIGN FOR A TIRE
Henry Franz, Newark, Ohio, assignor to The Pharis Tire and Rubber Company, Newark, Ohio, a corporation of Ohio
Application October 28, 1940, Serial No. 96,112
Term of patent 7 years



The ornamental design for a tire, as shown and described.

132,669
DESIGN FOR A SIGN
A. C. Frisbie, Jr., Kansas City, Mo.
Application March 23, 1942, Serial No. 106,287
Term of patent 7 years



The ornamental design for a sign, as shown.

132,670
DESIGN FOR A WEDDING RING
Philip Krasnow, New York, N. Y.
Application March 17, 1942, Serial No. 106,220
Term of patent 7 years



The ornamental design for a wedding ring, substantially as shown and described.

132,671
DESIGN FOR A WEDDING RING
Philip Krasnow, New York, N. Y.
Application March 17, 1942, Serial No. 106,221
Term of patent 7 years



The ornamental design for a wedding ring, substantially as shown and described.

132,672
DESIGN FOR A WEDDING RING
Philip Krasnow, New York, N. Y.
Application March 17, 1942, Serial No. 106,222
Term of patent 7 years



The ornamental design for a wedding ring, substantially as shown and described.

132,673
DESIGN FOR A WEDDING RING
Application March 17, 1942, Serial No. 106,223
Philip Krasnow, New York, N. Y.
Term of patent 7 years



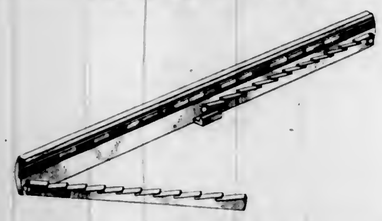
The ornamental design for a wedding ring, substantially as shown and described.

132,674
DESIGN FOR A BENCH OR SIMILAR ARTICLE
Michael G. Marrone, Fitchburg, Mass.
Application March 23, 1942, Serial No. No. 106,280
Term of patent 3½ years



The ornamental design for a bench or similar article, as shown and described.

132,675
DESIGN FOR A TIE HOLDER
George M. Munk, Springdale, Conn.
Application December 20, 1941, Serial No. 104,763
Term of patent 7 years



The ornamental design for a tie holder, substantially as shown and described.

132,676
DESIGN FOR A STEPLADDER
Paul Roberts, St. Louis, Mo.
Application March 16, 1942, Serial No. 106,211
Term of patent 7 years



The ornamental design for a stepladder, as shown.

132,677
DESIGN FOR A PITCHER
Charles W. Sawyer, Toledo, Ohio, assignor to Libbey Glass Company, Toledo, Ohio, a corporation of Ohio
Application September 25, 1941, Serial No. 103,493
Term of patent 7 years



The ornamental design for a pitcher, substantially as shown.

132,678
DESIGN FOR A FRUIT JUICE EXTRACTOR
Henry J. Talge, Kansas City, Mo., assignor to Foster L. Talge, Kansas City, Mo., doing business as Rival Manufacturing Company
Application March 23, 1942, Serial No. 106,286
Term of patent 14 years



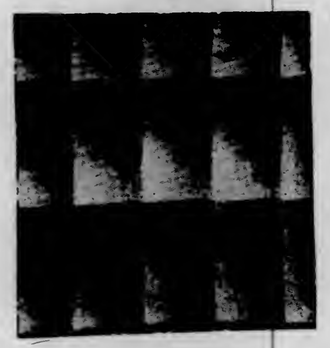
The ornamental design for a fruit juice extractor, substantially as shown.

132,679
DESIGN FOR A BUCKLE
Paul W. White, Waterbury, Conn., assignor to Parva Products Company, Chicago, Ill., a corporation of Delaware
Application August 27, 1941, Serial No. 103,047
Term of patent 14 years



The ornamental design for a buckle, substantially as shown and described.

132,680
DESIGN FOR A TEXTILE FABRIC
John H. Abt, New York, N. Y.
Application March 10, 1942, Serial No. 106,130
Term of patent 3½ years



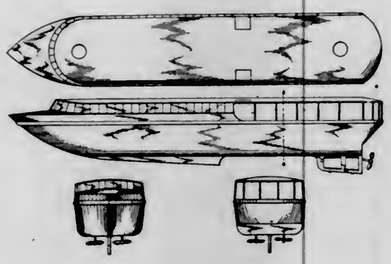
The ornamental design for a textile fabric, substantially as shown.

132,681
DESIGN FOR A JEWELRY FINDING
Egmont Arens, New York, N. Y.
Application May 8, 1942, Serial No. 106,828
Term of patent 3½ years



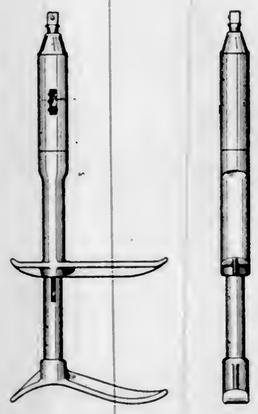
The ornamental design for a jewelry finding, substantially as shown.

132,682
DESIGN FOR A MOTORBOAT
George Forton, Detroit, Mich.
Application February 17, 1941, Serial No. 99,034
Term of patent 3½ years



The ornamental design for a motor boat, as shown.

132,683
DESIGN FOR A TOOL DRIVER
Milton E. Foster, near Seattle, Wash.
Application March 24, 1942, Serial No. 106,304
Term of patent 14 years



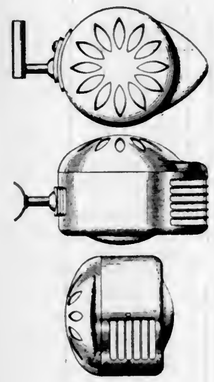
The ornamental design for a tool driver, substantially as shown.

132,684
DESIGN FOR A TIRE
James E. Hale, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application September 11, 1941, Serial No. 103,289
Term of patent 14 years



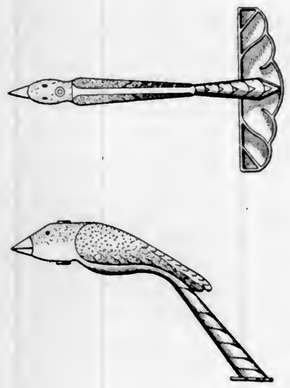
The ornamental design for a tire, substantially as shown.

132,685
DESIGN FOR A FAN CASING
Junius W. Houston, Defiance, Ohio, assignor to The Defiance Alloyed Products Company, a corporation of Ohio
Application August 28, 1941, Serial No. 103,073
Term of patent 3½ years



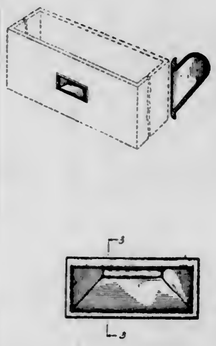
The ornamental design for a fan casing, as shown.

132,686
DESIGN FOR A VELOCIPEDE FRAME MEMBER
Samuel J. Jenkins, Waxahachie, Tex.
Application April 29, 1941, Serial No. 100,699
Term of patent 7 years



The ornamental design for a velocipede frame member, as shown.

132,687
DESIGN FOR A DRAWER
Martin E. Kupperman, Waukegan, Ill., assignor to Steel Kitchens Corporation, Connersville, Ind., a corporation of Delaware
Application November 30, 1940, Serial No. 96,970
Term of patent 7 years



The ornamental design for a drawer, substantially as shown and described.

132,688
DESIGN FOR A PIN OR SIMILAR ARTICLE
Jessie N. Powell, Chevy Chase, Md.
Application January 21, 1942, Serial No. 105,349
Term of patent 3½ years



The ornamental design for a pin or similar article, substantially as shown.

132,689
DESIGN FOR A BADGE OR SIMILAR ARTICLE
Frank H. Rasmussen, Chicago, Ill.
Application February 20, 1942, Serial No. 105,924
Term of patent 7 years



The ornamental design for a badge or similar article, substantially as shown.

132,690
DESIGN FOR A BANNER OR THE LIKE
Leonard Oliver Redding, Forest Hills, N. Y.
Application December 20, 1941, Serial No. 104,762
Term of patent 3½ years



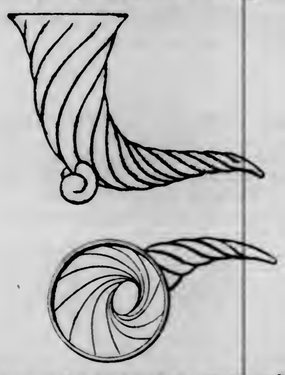
The ornamental design for a banner or the like, substantially as shown.

132,691
DESIGN FOR A VASE
Charles W. Sawyer, Toledo, Ohio, assignor to Libbey Glass Company, Toledo, Ohio, a corporation of Ohio
Application September 25, 1941, Serial No. 103,487
Term of patent 7 years



The ornamental design for a vase, substantially as shown.

132,692
DESIGN FOR A VASE
Charles W. Sawyer, Toledo, Ohio, assignor to Libbey Glass Company, Toledo, Ohio, a corporation of Ohio
Application September 25, 1941, Serial No. 103,489
Term of patent 7 years



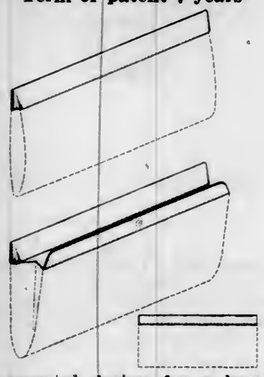
The ornamental design for a vase, substantially as shown.

132,693
DESIGN FOR A BADGE OR SIMILAR ARTICLE
Edwin Y. Webb, Jr., Atlanta, Ga.
Application April 21, 1942, Serial No. 106,640
Term of patent 7 years



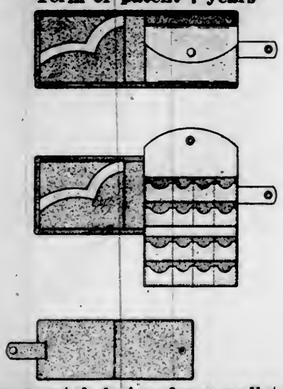
The ornamental design for a badge or similar article, substantially as shown.

132,694
DESIGN FOR A HANDBAG
Robert Appel, New York, N. Y.
Application May 5, 1942, Serial No. 106,798
Term of patent 7 years



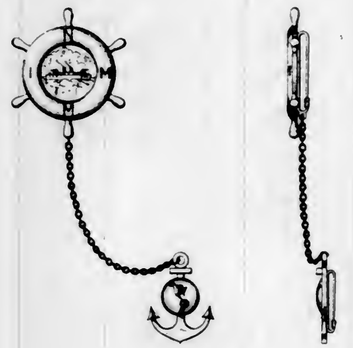
The ornamental design for a handbag, substantially as shown and described.

132,695
DESIGN FOR A WALLET
Harry P. Behrman, St. Albans, N. Y.
Application April 18, 1942, Serial No. 106,603
Term of patent 7 years



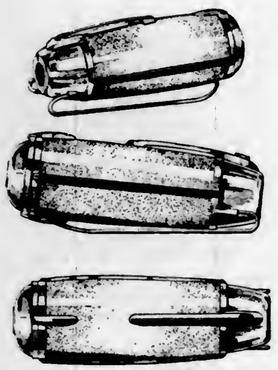
The ornamental design for a wallet, substantially as shown.

132,696
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Cleata M. Boyle, Pana, Ill.
Application March 7, 1942, Serial No. 106,114
Term of patent 7 years



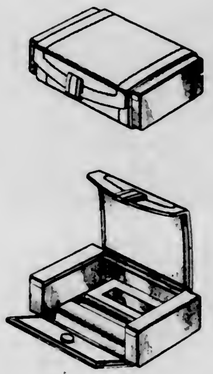
The ornamental design for a brooch or similar article, as shown.

132,697
DESIGN FOR A VACUUM CLEANER
Paul E. Frantz, Euclid, Ohio
Application July 19, 1940, Serial No. 93,788
Term of patent 7 years



The ornamental design for a vacuum cleaner, substantially as shown and described.

132,698
DESIGN FOR A CASE FOR SAFETY RAZORS AND SHAVING ACCESSORIES
Morton Hollis, Brookline, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
Application April 17, 1942, Serial No. 106,601
Term of patent 14 years



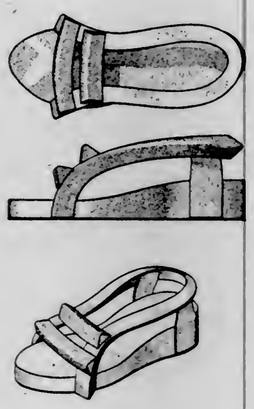
The ornamental design for a case for safety razors and shaving accessories, as shown.

132,699
DESIGN FOR A BOTTLE
Meredith Stewart Ireys, Lancaster, Pa., assignor to Nelson, Baker & Company, Detroit, Mich., a corporation of Michigan
Application April 6, 1942, Serial No. 106,478
Term of patent 7 years



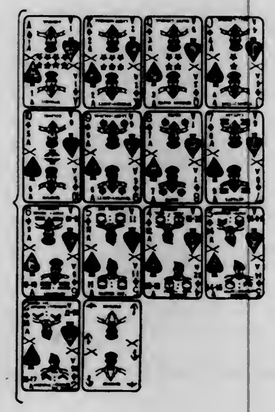
The ornamental design for a bottle, substantially as shown.

132,700
DESIGN FOR A SANDAL OR SIMILAR ARTICLE
Howard A. Jarvis, Los Angeles, Calif.
Application November 25, 1941, Serial No. 104,320
Term of patent 14 years

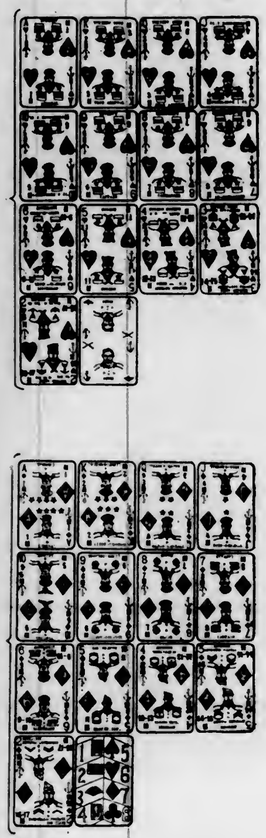


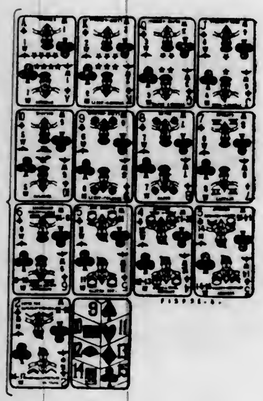
The ornamental design for a sandal or similar article, substantially as shown.

132,701
DESIGN FOR A DECK OF PLAYING CARDS
John P. McManus, Ottawa, Ontario, Canada, assignor of forty-five per cent to Mary Agnes Beatrice McManus, Ottawa, Ontario, Canada
Application March 11, 1942, Serial No. 106,148
Term of patent 14 years



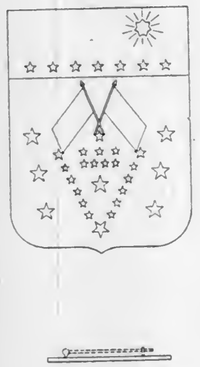
132,701—Continued





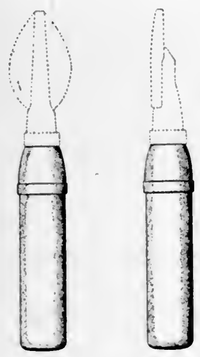
The ornamental design for a deck of playing cards, as shown and described.

132,702
DESIGN FOR A BADGE OR SIMILAR ARTICLE
Elliott H. Millican, El Paso, Tex.
Application February 13, 1942, Serial No. 105,789
Term of patent 7 years



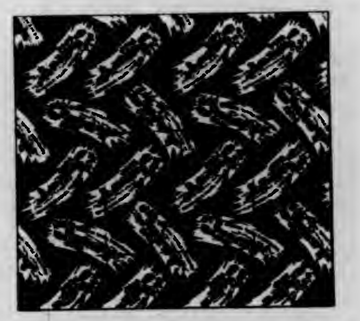
The ornamental design for a badge or similar article, as shown.

132,703
DESIGN FOR A RETINOSCOPE OR THE LIKE
William F. Peck, Snyder, Albin A. Gradisar, Buffalo, and John T. Armbruster, Niagara Falls, N. Y.
Application September 10, 1941, Serial No. 103,270
Term of patent 14 years



The ornamental design for a retinoscope or the like, substantially as shown and described.

132,704
DESIGN FOR A TEXTILE FABRIC OR THE LIKE
Harold Slater, New York, N. Y.
Application January 16, 1942, Serial No. 105,233
Term of patent 7 years



The ornamental design for a textile fabric or the like, as shown and described.

132,705
DESIGN FOR A BADGE OR SIMILAR ARTICLE
Max Wittmann, New York, N. Y.
Application January 7, 1942, Serial No. 105,043
Term of patent 3½ years



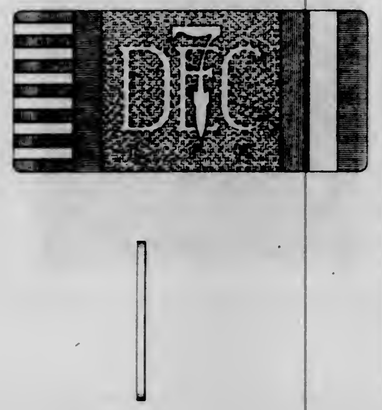
The ornamental design for a badge or similar article, as shown.

132,706
DESIGN FOR A JAR OR SIMILAR RECEPTACLE
Henry Worth and Michael D. Goldsmith, New York, N. Y.
Application March 26, 1942, Serial No. 106,336
Term of patent 14 years



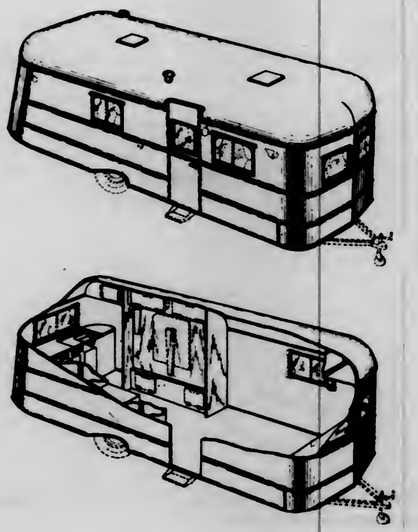
The ornamental design for a jar or similar receptacle, substantially as shown.

132,707
DESIGN FOR A PLAQUE
John W. Ziegler, Garden City, N. Y.
Application January 9, 1942, Serial No. 105,093
Term of patent 7 years



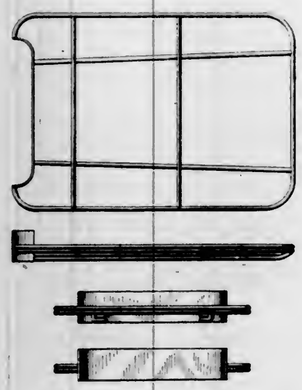
The ornamental design for a plaque, as shown and described.

132,708
DESIGN FOR A HOUSE TRAILER
Rex R. Anderson, Marshall, Mich.
Application October 31, 1940, Serial No. 96,220
Term of patent 14 years



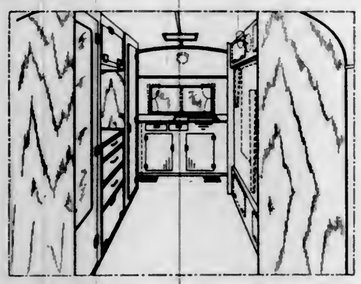
The ornamental design for a house trailer, substantially as shown and described.

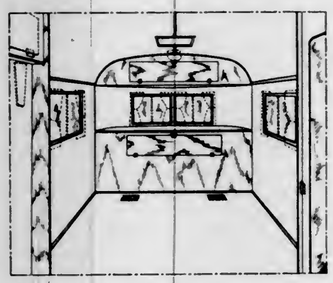
132,709
DESIGN FOR A TRUCK FRAME
George M. Dykes, Miami, Fla.
Application February 18, 1942, Serial No. 105,884
Term of patent 14 years



The ornamental design for a truck frame, as shown.

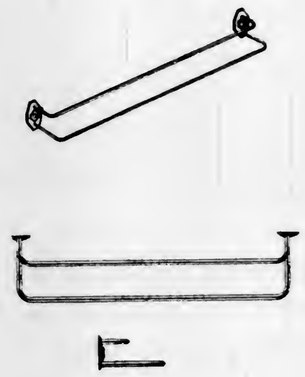
132,708—Continued





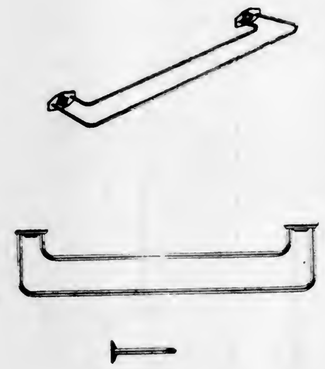
The ornamental design for a house trailer, substantially as shown and described.

132,710
DESIGN FOR A TOWEL BAR
Roy S. Sanford, Oakville, Conn., assignor to The Autoyre Company, Incorporated, Oakville, Conn., a corporation of Connecticut
Application April 3, 1941, Serial No. 100,111
Term of patent 14 years



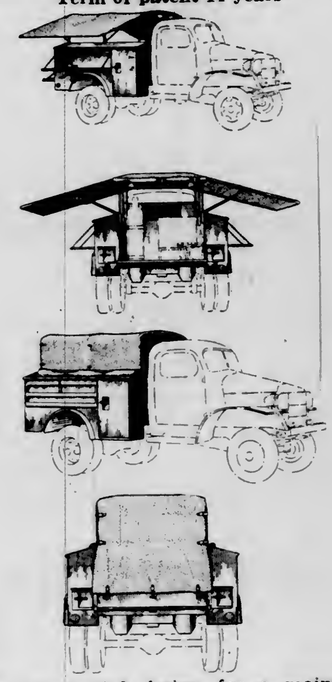
The ornamental design for a towel bar, substantially as shown.

132,711
DESIGN FOR A TOWEL BAR
Roy S. Sanford, Oakville, Conn., assignor to The Autoyre Company, Incorporated, Oakville, Conn., a corporation of Connecticut
Application April 3, 1941, Serial No. 100,113
Term of patent 14 years



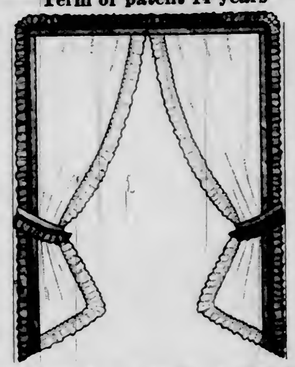
The ornamental design for a towel bar, substantially as shown.

132,712
DESIGN FOR A MAINTENANCE SERVICE TRUCK
Herman J. Troche, Cleveland Heights, and James H. Holan, Jr., Lakewood, Ohio, assignors to The American Coach & Body Company, Cleveland, Ohio, a corporation of Ohio
Application April 4, 1942, Serial No. 106,458
Term of patent 14 years



The ornamental design for a maintenance service truck, substantially as shown and described.

132,713
DESIGN FOR A CURTAIN OR SIMILAR ARTICLE
Edmond P. Bixer, New York, N. Y.
Application December 23, 1940, Serial No. 97,573
Term of patent 14 years



The ornamental design for a curtain or similar article, as shown and described.

132,714
DESIGN FOR A LAPEL BUTTON OR SIMILAR ARTICLE
Charles W. Coffield, Chicago, Ill.
Application February 6, 1942, Serial No. 105,679
Term of patent 3½ years



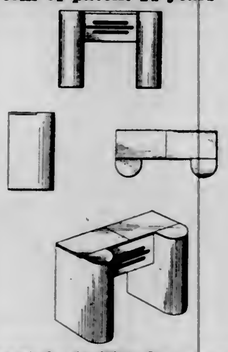
The ornamental design for a lapel button or similar article, as shown.

132,715
DESIGN FOR A FLOOR BRUSH ATTACHMENT FOR SUCTION TOOLS
Dewey M. Dow, Toledo, Ohio, assignor to Air-Way Electric Appliance Corporation, Toledo, Ohio, a corporation of Delaware
Application September 27, 1941, Serial No. 103,540
Term of patent 14 years



The ornamental design for a floor brush attachment for suction tools, as shown.

132,716
DESIGN FOR A COMBINATION PHONOGRAPH AND RADIO CABINET
Maurice S. Eisman, Philadelphia, Pa.
Application September 30, 1941, Serial No. 103,578
Term of patent 14 years



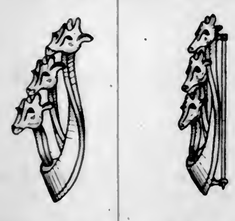
The ornamental design for a combination phonograph and radio cabinet, as shown.

132,717
DESIGN FOR A MANDOLIN PICK
Hyman Galetzky, Bronx, N. Y.
Application December 29, 1941, Serial No. 104,891
Term of patent 14 years



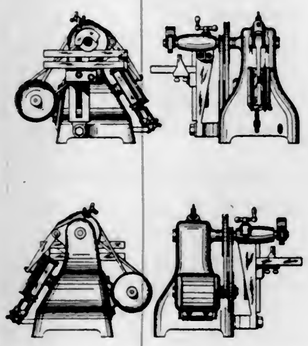
The ornamental design for a mandolin pick, as shown and described.

132,718
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Christian Arpad Jakobb, Bayside, Long Island, N. Y.
Application December 2, 1941, Serial No. 104,434
Term of patent 3½ years



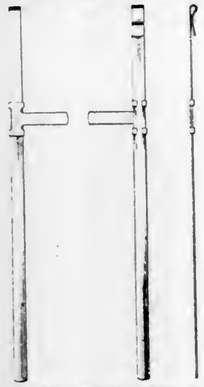
The ornamental design for a brooch or similar article, substantially as shown.

132,719
DESIGN FOR A MACHINE FOR PEENING AND RESHAPING PISTONS
Van F. Lippard, Washington, D. C.
Application October 6, 1941, Serial No. 103,662
Term of patent 7 years



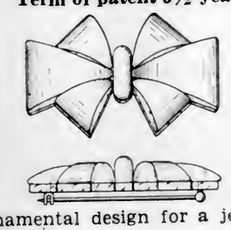
The ornamental design for a machine for peening and reshaping pistons, as shown.

132,720
DESIGN FOR A COMBINED BOOK MARKER AND LINE GUIDE
Emeline Mears, Pasadena, Calif.
Application September 15, 1941, Serial No. 103,361
Term of patent 14 years



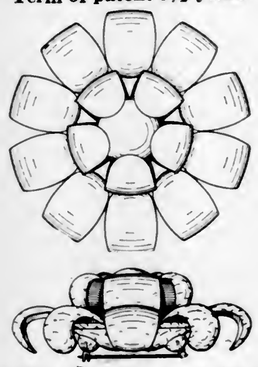
The ornamental design for a combined book marker and line guide, as shown.

132,721
DESIGN FOR A JEWELRY PIN
Maximilian C. Meyer, Brooklyn, N. Y.
Application March 24, 1942, Serial No. 106,293
Term of patent 3½ years



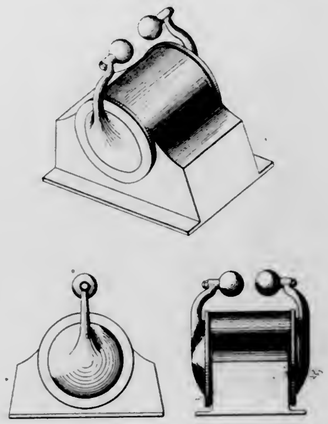
The ornamental design for a jewelry pin, as shown.

132,722
DESIGN FOR A JEWELRY PIN
Maximilian C. Meyer, Brooklyn, N. Y.
Application March 24, 1942, Serial No. 106,300
Term of patent 3½ years



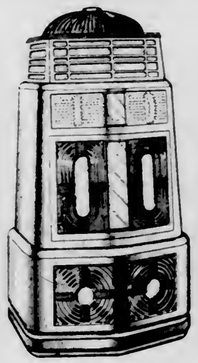
The ornamental design for a jewelry pin, as shown.

132,723
DESIGN FOR A DUAL HANDLE CONTROLLER
Erwin J. Panish, Bridgeport, Conn.
Application July 16, 1941, Serial No. 102,194
Term of patent 14 years



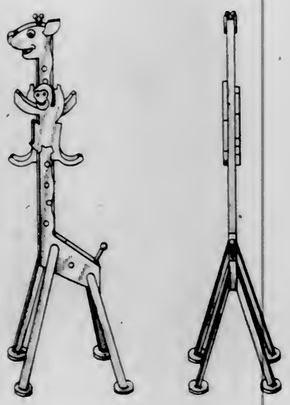
The ornamental design for a dual handle controller, as shown.

132,724
DESIGN FOR A PHONOGRAPH CABINET
Henry T. Roberts, Chicago, Ill., assignor to Automatic Instrument Company, Grand Rapids, Mich., a corporation of Michigan
Application April 5, 1941, Serial No. 100,171
Term of patent 7 years



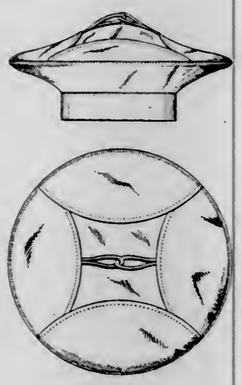
The ornamental design for a phonograph cabinet, as shown and described.

132,725
DESIGN FOR A CLOTHING RACK
Theodore Sokolove, Baltimore, Md.
Application November 5, 1941, Serial No. 104,032
Term of patent 7 years



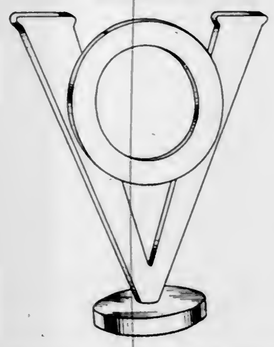
The ornamental design for a clothing rack, as shown and described.

132,726
DESIGN FOR A HAT
Max Solash, Linden, N. J.
Application April 13, 1942, Serial No. 106,560
Term of patent 3½ years



The ornamental design for a hat, substantially as shown.

132,727
DESIGN FOR A PICTURE FRAME
Charles Tarnopoll, Brooklyn, N. Y.
Application March 3, 1942, Serial No. 106,057
Term of patent 3½ years



The ornamental design for a picture frame, as shown.

132,728
DESIGN FOR A PIN OR THE LIKE
Arthur G. Trimble, Pittsburgh, Pa.
Application October 29, 1941, Serial No. 103,933
Term of patent 7 years



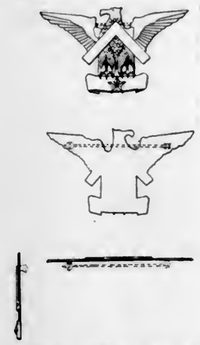
The ornamental design for a pin or the like, as shown.

132,729
DESIGN FOR A LIPSTICK HOLDER
Nellis S. Varin, Brooklyn, N. Y.
Application September 15, 1941, Serial No. 103,362
Term of patent 14 years



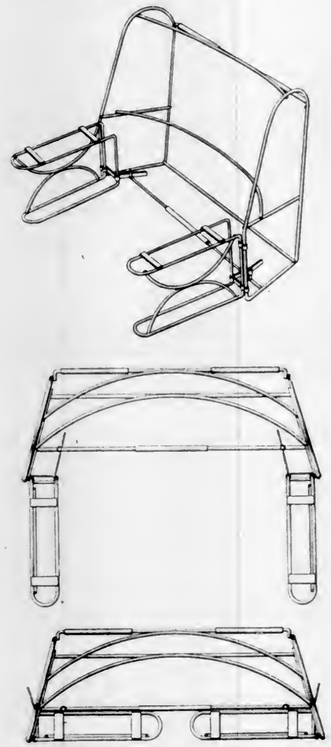
The ornamental design for a lipstick holder, as shown.

132,730
DESIGN FOR A BADGE OR SIMILAR ARTICLE
Edwin S. West, New York, N. Y.
Application March 3, 1941, Serial No. 99,291
Term of patent 7 years



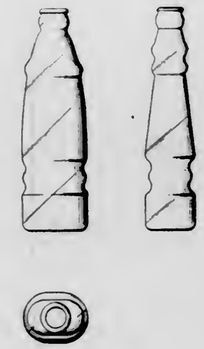
The ornamental design for a badge or similar article, substantially as shown.

132,731
DESIGN FOR A FOLDING BACK REST FRAME OR SIMILAR ARTICLE
Sonia D. Anderson, Philadelphia, Pa.
Application August 19, 1941, Serial No. 102,949
Term of patent 7 years



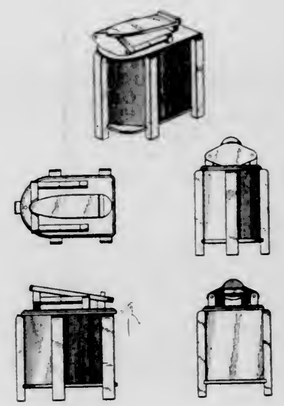
The ornamental design for a folding back rest frame or similar article, substantially as shown.

132,732
DESIGN FOR A BOTTLE OR THE LIKE
Walter Bell, New York, N. Y.
Application August 30, 1941, Serial No. 103,114
Term of patent 14 years



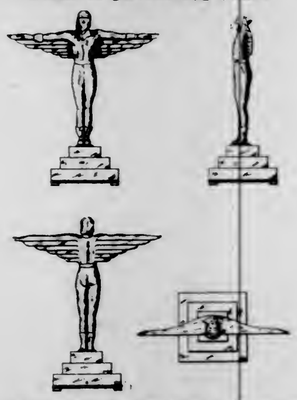
The ornamental design for a bottle or the like, substantially as shown.

132,733
DESIGN FOR A SHOE STAND OR SIMILAR ARTICLE
Gerald Roy Berns, Yonkers, N. Y.
Application September 27, 1941, Serial No. 103,545
Term of patent 3½ years



The ornamental design for a shoe stand or similar article, as shown.

132,734
DESIGN FOR A LAMP OR SIMILAR ARTICLE
Corinne Holt Gould, Portland, Oreg.
Application September 10, 1941, Serial No. 103,283
Term of patent 3½ years



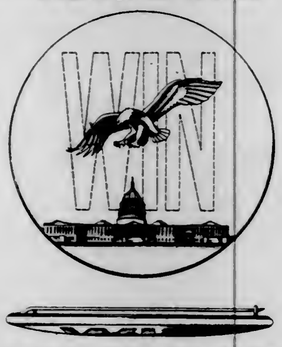
The ornamental design for a lamp or similar article, substantially as shown.

132,735
DESIGN FOR A MATCH FOLDER
Russell R. Isenhour, Geneva, N. Y., assignor of one-half to Valere L. Minet, Geneva, N. Y.
Application January 2, 1942, Serial No 104,979
Term of patent 14 years



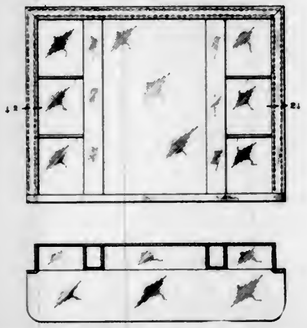
The ornamental design for a match folder, as shown.

132,736
DESIGN FOR A BADGE OR SIMILAR ARTICLE
Louis A. Leppke, Omaha, Nebr.
Application March 9, 1942, Serial No. 106,117
Term of patent 14 years



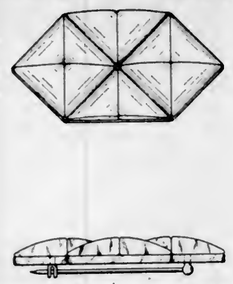
The ornamental design for a badge or similar article, as shown.

132,737
DESIGN FOR A MIRRORED CABINET
Adolph Marchand, Jackson Heights, N. Y.
Application July 19, 1941, Serial No. 102,285
Term of patent 7 years



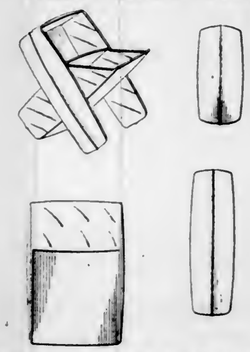
The ornamental design for a mirrored cabinet, as shown.

132,738
DESIGN FOR A JEWELRY PIN
Maximilian C. Meyer, Brooklyn, N. Y.
Application March 24, 1942, Serial No. 106,294
Term of patent 3½ years



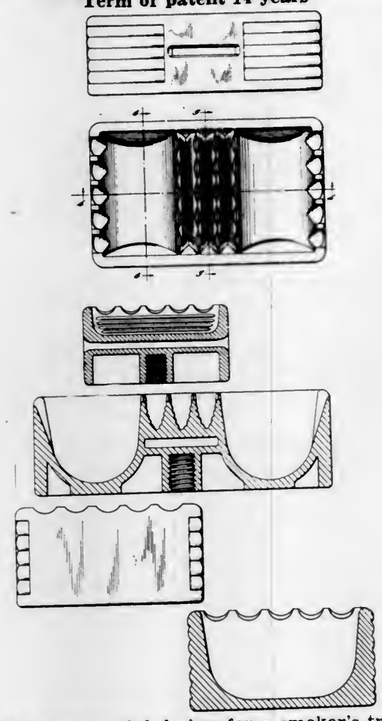
The ornamental design for a jewelry pin, as shown.

132,739
DESIGN FOR A FOLDING CIGARETTE CASE
Royal R. Miller, Los Angeles, Calif.
Application March 26, 1941, Serial No. 99,903
Term of patent 7 years



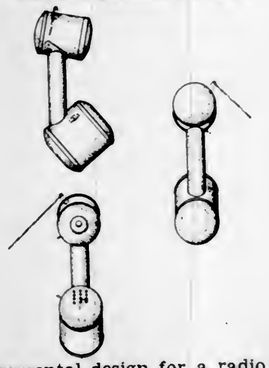
The ornamental design for a folding cigarette case, as shown.

132,740
DESIGN FOR A SMOKER'S TRAY
Walter H. Miller, Kansas City, Mo.
Application July 2, 1940, Serial No. 93,395
Term of patent 14 years



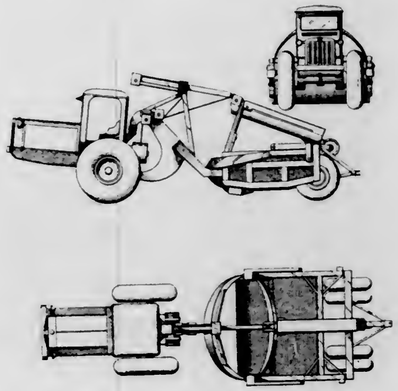
The ornamental design for a smoker's tray, as shown.

132,741
DESIGN FOR A RADIO TELEPHONE TRANSMITTER AND RECEIVER OR SIMILAR ARTICLE
Cletus J. Collom, Detroit, Mich., assignor to Weltronic Corporation, Detroit, Mich., a corporation of Michigan
Application March 20, 1942, Serial No. 106,270
Term of patent 14 years



The ornamental design for a radio telephone transmitter and receiver or similar article, as shown.

132,742
DESIGN FOR A COMBINED TRACTOR AND IMPLEMENT UNIT
Robert G. Le Tourneau, Peoria, Ill., assignor to R. G. Le Tourneau, Inc., a corporation of California
Application September 3, 1941, Serial No. 103,141
Term of patent 14 years



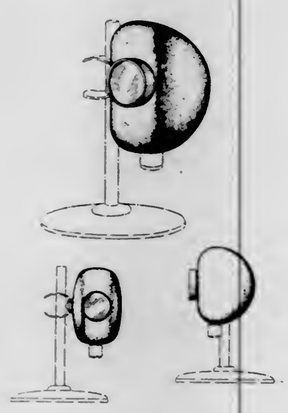
The ornamental design for a combined tractor and implement unit, as shown and described.

132,743
DESIGN FOR A COMBINED DESK MICROPHONE AND LOUD-SPEAKER
William J. O'Neil, Atlantic Beach, N. Y., assignor to Dictaphone Corporation, New York, N. Y., a corporation of New York
Application March 13, 1942, Serial No. 106,194
Term of patent 14 years



The ornamental design for a combined desk microphone and loud speaker, substantially as shown.

132,744
DESIGN FOR AN ILLUMINATING PROJECTOR
William F. Peck, Snyder and John T. Armbruster, Niagara Falls, N. Y., assignors to Spencer Lens Company, Buffalo, N. Y., a corporation of New York
Application March 5, 1942, Serial No. 106,084
Term of patent 14 years



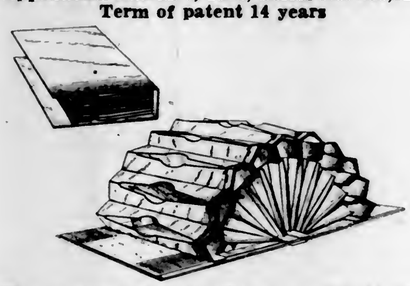
The ornamental design for an illuminating projector, substantially as shown and described.

132,745
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Charles Rosenstein, Paterson, N. J.
Application May 16, 1942, Serial No. 106,917
Term of patent 3½ years



The ornamental design for a textile fabric or similar article, as shown.

132,746
DESIGN FOR A RECORD HOLDER FILE
Jack E. Schenker, Chicago, Ill.
Application March 7, 1942, Serial No. 106,115
Term of patent 14 years



The ornamental design for a record holder file, as shown.

132,747
DESIGN FOR A TEXTILE FABRIC
Hans W. Wilde, North Bergen, N. J.
Application May 18, 1942, Serial No. 106,938
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown, and described.

132,748
DESIGN FOR A TEXTILE FABRIC
Hans W. Wilde, North Bergen, N. J.
Application May 18, 1942, Serial No. 106,939
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown.

132,749
DESIGN FOR A MOBILE FOOD SERVICE UNIT
John C. Dinsmore, Chicago, Ill., assignor to Dinsmore Associates, Inc., Chicago, Ill., a corporation of Illinois
Application March 1, 1941, Serial No. 99,280
Term of patent 3½ years



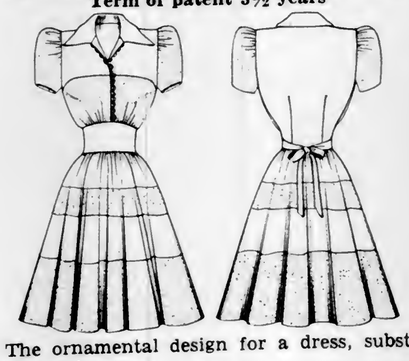
The ornamental design for a mobile food service unit, substantially as shown and described.

132,750
DESIGN FOR A DRESS
Anna Louise S. Carroll, New York, N. Y.
Application May 18, 1942, Serial No. 106,923
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,751
DESIGN FOR A DRESS
Anna Louise S. Carroll, New York, N. Y.
Application May 18, 1942, Serial No. 106,924
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,752
DESIGN FOR A DRESS
Anna Louise S. Carroll, New York, N. Y.
Application May 18, 1942, Serial No. 106,925
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,753
DESIGN FOR A DRESS
Anna Louise S. Carroll, New York, N. Y.
Application May 18, 1942, Serial No. 106,926
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,754
DESIGN FOR A DRESS
Anna Louise S. Carroll, New York, N. Y.
Application May 18, 1942, Serial No. 106,927
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,755
DESIGN FOR A DRESS
Anna Louise S. Carroll, New York, N. Y.
Application May 18, 1942, Serial No. 106,928
Term of patent 3½ years



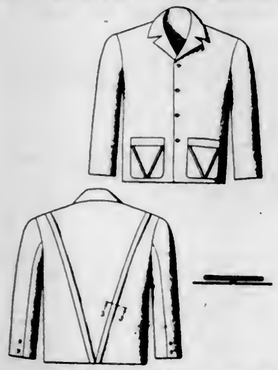
The ornamental design for a dress, substantially as shown.

132,756
DESIGN FOR A COMBINATION SPORT AND DRESS HAT
Fred Lacome, New York, N. Y.
Application December 3, 1941, Serial No. 104,448
Term of patent 3½ years



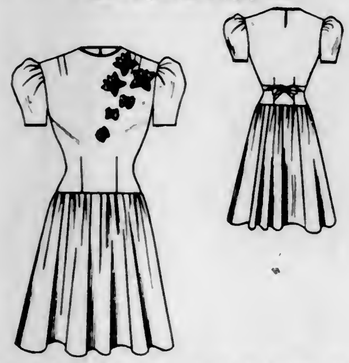
The ornamental design for a combination sport and dress hat, substantially as shown.

132,757
DESIGN FOR A JACKET OR SIMILAR ARTICLE
Morris Shapiro, Los Angeles, Calif.
Application August 30, 1941, Serial No. 103,120
Term of patent 3½ years



The ornamental design for a jacket or similar article, substantially as shown and described.

132,758
DESIGN FOR A DRESS
Leone Simmons, New York, N. Y.
Application May 18, 1942, Serial No. 106,937
Term of patent 3½ years



The ornamental design for a dress, substantially as shown and described.

THE
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CONTENTS

	Page
ISSUE OF JUNE 16, 1942	48
TRADE-MARK REGISTRATIONS CANCELED	48
ADJUDICATED PATENTS	48
ADVERSE DECISIONS IN INTERFERENCE	487
APPLICATIONS UNDER EXAMINATION	488
DECISIONS OF THE U. S. COURTS—	
In re Fischer	489
Temple *v.* Littlehale	491
PATENT SUITS	495
DISCLAIMERS	495
TRADE-MARKS PUBLISHED (135 APPLICATIONS)	497
TRADE-MARK REGISTRATIONS GRANTED	513
TRADE-MARK REGISTRATIONS RENEWED	520
REISSUES	523
PATENTS GRANTED	526
DESIGNS	720

June 16, 1942

Trade-Marks	167—No.	395,806 to No. 395,972, inclusive.
T. M. Renewals	65	
Reissues	10—No.	22,113 to No. 22,122, inclusive.
Patents	827—No.	2,286,182 to No. 2,287,008, inclusive.
Designs	80—No.	132,759 to No. 132,838, inclusive.
Total	1,149	

Trade-Mark Registrations Canceled

88,477. Parchment-tissue. Franz Euler & Co., New York, N. Y. Registered September 24, 1912. Renewed to Du Pont Cellophane Company, Inc., New York, N. Y. Canceled May 7, 1942.

92,036. Cellulose sheets. Blanchisserie et Teinturerie de Thaon, Thaon, France. Registered June 17, 1913. Renewed to Du Pont Cellophane Company, Inc., New York, N. Y. Canceled May 7, 1942.

186,577. Cellulose sheets. Du Pont Cellophane Company, Inc., Buffalo, N. Y. Registered July 22, 1924. Canceled May 7, 1942.

198,071. Oil motors, pumps, and internal-combustion engines. American Crude Oil Motors Corp., New York, N. Y. Registered May 5, 1925. Canceled April 22, 1942.

269,030. Caps and bands of cellulose. Du Pont Cellophane Company, Inc., New York, N. Y. Registered March 25, 1930. Canceled May 7, 1942.

269,111. Moistureproof cellulose sheets. Du Pont Cellophane Company, Inc., New York, N. Y. Registered March 25, 1930. Canceled May 7, 1942.

283,443. Wheat flour, stock feed, and shorts. Theo. Stivers Milling Company, Cleveland, Tenn. Registered May 26, 1931. Canceled May 25, 1942.

289,679. Certain named food. Jersey Useful Products, Bound Brook, N. J. Registered December 1, 1931. Canceled May 25, 1942.

373,543. Books. The John C. Winston Company, Philadelphia, Pa. Registered December 12, 1939. Canceled May 25, 1942.

384,484. Window shades. Clopay Corporation, Cincinnati, Ohio. Registered January 21, 1941. Canceled May 25, 1942.

390,344. Removable and attachable lining for garments. David M. Studner, New York, N. Y. Registered September 16, 1941. Canceled May 7, 1942.

390,748. Storage batteries. Southwest Wheel, Dallas, Tex. Registered September 30, 1941. Canceled May 25, 1942.

Adjudicated Patents

(C. C. A. N. Y.) Jenkins patent, No. 1,401,156, for lawn mower, claims 1–3 *Held* not infringed. *Moto-Mower Co. v. E. S. Stearns & Co.*, 126 F.(2d) 854.

(D. C. N. J.) Drucker patent, No. 1,895,409, for register or index, *Held* valid and infringed. *Zephyr American Corporation* v. *Bates Mfg. Co.*, 43 F. Supp. 893.

(D. C. N. Y.) Drobile patent, No. 2,001,488, for apparatus for coating fabrics, claims 7 and 8 *Held* not infringed. *Saltex Looms* v. *Collins & Aikman Corporation*, 43 F. Supp. 914.

(D. C. N. Y.) Crabtree patent, No. 2,007,078, for pile fabric, *Held* invalid. *Id.*

(D. C. N. Y.) Curtis patent, No. 2,033,881, for pile fabric and method of making same, claims 1, 4, and 7 *Held* invalid and not infringed. *Id.*

(D. C. N. Y.) Bird patent, No. 2,070,251, for impregnated pile fabric and method of making same, claims 1, 9, 11, and 12 *Held* invalid. *Id.*

(D. C. N. Y.) Hiers patent, No. 2,070,335, for porous coated pile fabric, claim 1 *Held* not infringed. *Id.*

(D. C. N. J.) Peter patent, No. 2,115,537, for index device, *Held* valid and infringed. *Zephyr American Corporation* v. *Bates Mfg. Co.*, 43 F. Supp. 893.

(D. C. N. J.) Pollock patent, No. 2,141,761, for improved list finding device, *Held* invalid. *Id.*

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 2,133,787, E. H. Northey, Di(aminoarylsulphon) amides and a method of making the same, decided March 27, 1942, claims 1, 2, 3, 4, 5, 6, and 7.

Pat. 2,215,321, M. C. Cooley, Fuse, decided April 2, 1942, claim 6.

Pat. 2,231,686, B. E. Shaw, Switch structure, decided May 14, 1942, claims 1, 2, and 3.

Condition of Applications Under Examination at Close of Business May 30, 1942

(Total number of applications awaiting action, excluding Trade-Mark Division, 46,672; Trade-Mark Division, 1,023. Oldest new case, Aug. 11, 1941; oldest amended, Apr. 28, 1941.)
(The dates given are 1941 except where † indicates 1942)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Sept. 20	Sept. 27	687
2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Nov. 8	Oct. 6	635
3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	†Jan. 8	†Jan. 9	605
4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating, Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	Dec. 23	Dec. 4	490
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	Dec. 16	Dec. 12	429
6. LEWERS, A. M., Carbon Chemistry (part)	Oct. 1	Oct. 4	1,294
7. JARBOE, C. G., Optics; Photography	Oct. 2	Oct. 3	1,129
8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	Nov. 10	Nov. 18	738
9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Dec. 17	Nov. 17	653
10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	†Feb. 21	†Feb. 19	345
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Dec. 15	Dec. 10	510
12. SPINTMAN, SAMUEL (Act.), Machine Elements; Mechanical Starters; Stop Mechanisms	Sept. 12	Sept. 11	618
13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	†Jan. 12	†Jan. 12	614
14. FREEHOF, H. B. (Act.), Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	Oct. 23	Oct. 22	1,133
15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Nov. 19	Nov. 19	624
16. SPENCER, C. J., Telegraphy; Telephony	Aug. 29	Aug. 30	1,012
17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Nov. 24	Oct. 15	587
18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Nov. 1	Nov. 6	614
19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Dec. 26	Dec. 18	402
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	†Jan. 21	†Jan. 21	384
21. THOMPSON, T. J., Textiles; Cloth Finishing	Aug. 11	Aug. 11	1,874
22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	Oct. 10	Sept. 20	223
23. BUTTNER, W. J., Registers (part)	Dec. 11	Dec. 6	789
24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	†Jan. 9	†Jan. 28	446
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	†Jan. 3	Dec. 31	465
26. YOUNG, R. R., Electricity, Generation; Motive Power	Oct. 18	Aug. 19	492
27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	Dec. 27	Oct. 13	332
28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	Oct. 28	Oct. 29	664
29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	†Feb. 14	†Feb. 26	409
30. McCANN, L. P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Dec. 5	Dec. 4	1,430
31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	Nov. 21	Nov. 18	886
32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Dec. 5	Nov. 27	769
33. KAUFFMAN, H. E. (Act.), Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads.	†Jan. 23	†Feb. 2	375
34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Surface Track; Track Sanders; Draft Appliances; Signals and Indicators.	Sept. 15	Aug. 26	1,026
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Portable Receptacles	Nov. 28	Nov. 25	629
36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	†Feb. 6	†Feb. 16	482
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Nov. 14	Nov. 14	735
38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stoneworking; Wells; Plastic Compositions.	†Jan. 22	†Jan. 24	481
39. WHITNEY, F. I., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Nov. 1	Nov. 1	1,453
40. DRUMMOND, E. J., Metallic, Wood, Paper, and Special-Receptacles	Dec. 6	Dec. 5	528
41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	Dec. 11	Dec. 9	523
42. CUTTING, H. O., Electric Signaling	Sept. 24	Sept. 20	901
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Dec. 20	Nov. 8	324
44. HARVEY, L. P., Refrigeration	Oct. 8	Oct. 30	724
45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Oct. 18	Oct. 18	772
46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Sept. 16	Oct. 22	1,053
47. KANOF, W. J., Clutches; Brakes	Oct. 23	Oct. 23	860
48. ROEPKE, O. B., Electricity, General Applications; Igniters	Nov. 18	Nov. 8	672
49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Nov. 1	Nov. 1	1,638
50. LEVIN, S., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	†Feb. 14	†Feb. 23	409
51. BACKUS, C. D., Radiant Energy (part)	†Jan. 19	†Jan. 8	336
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	Oct. 23	†Apr. 28	530
53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	†Jan. 23	†Jan. 8	520
54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	†Jan. 24	†Jan. 28	270
55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	Oct. 6	Oct. 6	1,368
56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Dec. 31	†Jan. 23	224
57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	†Jan. 21	Dec. 16	417
58. DOWELL, E. F., Abrading; Bottles and Jars	Aug. 30	Sept. 9	1,524
59. SHEPPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	†Jan. 15	†Jan. 15	312
60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Oct. 18	Oct. 24	812
61. YUNGKWAI, B., Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	Oct. 25	Aug. 25	578
62. PUGH, E. C., Games; Geometrical Instruments	Aug. 15	Aug. 21	1,327
63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	Nov. 21	Nov. 17	1,612
64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats and Glue; Liquid Coating Compositions; Fuel.	Nov. 12	Dec. 2	428
65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	†Apr. 15	†May 1	1,023
Trade Marks: F. A. RICHMOND	†Apr. 6	†Apr. 14	547
Designs: H. H. KALUPY			

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE FISCHER

No. 4,591. Decided February 24, 1942

[125 F.(2d) 1016]

PATENTABILITY—GYROSCOPIC INSTRUMENT

Certain claims to a gyroscopic instrument for indicating the angular acceleration of a vehicle, such as aircraft, *Held* unpatentable in view of the prior patent cited.

APPEAL from Patent Office. Affirmed.

Mr. Stephen Cerstvik and *Mr. N. D. Parker, Jr.* (*Mr. C. J. Kalman* of counsel) for Fischer.

Mr. W. W. Cochran for the Commissioner of Patents.

BLAND, *J.:*

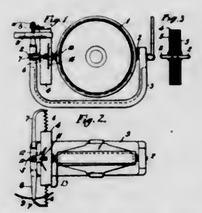
The application for a patent involved in this appeal is concerned with a gyroscopic instrument and particularly with one in aircraft which indicates the craft's angular acceleration. The Primary Examiner of the United States Patent Office, after having allowed four claims in which appear certain defined limitations descriptive of appellant's structure not found in the prior art, rejected claims 11, 12, 13 and 14, which are the broad claims in the application. Appellant appealed to the Board of Appeals, and it affirmed the decision of the examiner, and from the decision of the board appeal has been taken here.

While the examiner discussed the rejection of claims 11 and 12 separately from his rejection of claims 13 and 14, he, in fact, made no distinction between the claims as being anticipated by the sole reference in the case—Henderson, No. 1,900,709, March 7, 1933—and we regard claim 11 as illustrative of the four claims at bar. It follows:

11. A gyroscopic instrument comprising a two-degree-of-freedom gyroscope having a rotor mounted for precession in accordance with the rate of turn about an axis of a craft on which the instrument may be mounted, means cooperatively associated with said gyroscope for providing a magnetic field, and resiliently constrained indicating means controlled by the combined action of said magnetic field and of the precession of said gyroscope for indicating the angular acceleration of said craft during turning about said axis.

The drawings of appellant's application are diagrammatic, while those of the reference are presumed to show the actual structure of the device there involved. Before describing the invention and discussing the holdings of the tribunals below, and the contentions of appellant, we think it proper, for clarity, to here reproduce Figure 1 of appellant's drawings (Figure 2 being a modification thereof, each of the four claims here involved reading upon Figure 1) and Figures 1, 2 and 3 of the Henderson drawing. They follow:





Appellant's invention, according to his contentions here and his teachings in the application, as far as we have been able to understand them, has but one function—that of "indicating the angular acceleration of a mobile vehicle such as, for example, an aircraft." The board described his invention in the following language:

The disclosure relates to a gyroscopic instrument for indicating the angular acceleration of a movable vehicle, such as an aircraft, for example. The specification states that the disclosure relates to the determination of the angular acceleration from the speed of precession of a gyroscopic turn indicator measuring the speed of a turn. It is stated that applicant's objective is accomplished by associating with the axes of precession of a gyroscopic turn indicator, an independent mobile measuring member which is displaced against the force of springs or the like. * * *

The Primary Examiner rejected the involved claims as being unpatentable over Henderson, and in doing so had the following to say:

Claims 11 and 12 were held unpatentable over Henderson in which, referring to Figures 1 and 2, *1* is a gyro casing within which spins a rotor about an axis normal to plane of paper, Figure 1. The precession axis is defined by trunnions 2 supporting casing 1. The left trunnion (See Figure 3), is connected to discs 5 of a viscuous drag device. These discs are located within an independently turnable casing 4 wholly or partially filled with a viscuous liquid. The casing 4 is constrained by springs 6. Its turning is indicated by a pointer 8 moving over scale 9. *This viscuous transmission appears to be the full equivalent of the magnetic coupling of the application.* Attention is invited to the last paragraph of the present specification as filed where it is stated that the eddy current device may be replaced by "a liquid friction device", thus showing that applicant considered the two as complete equivalents. Assuming that it would not be invention to substitute a magnetic or eddy-current coupling for the viscuous coupling of Henderson, claims 11 and 12 are believed fairly anticipated. * * * [Italics ours]

* * * * * * * * * * * *

* * * All of these claims—viz., 11 to 14, rely for patentable novelty upon the same construction, described in almost identical wording. This extremely simple construction is adequately covered by the four claims which have been allowed.

The examiner also rejected the claims on the ground of indefiniteness, which ground the board disapproved, and we are not here concerned with it.

The board treated the examiner's rejection upon the prior art as applying to all the appealed claims and it approved his rejection in a somewhat lengthy decision from which we quote as follows:

It appears that the indicating means 13, 14 of Henderson comprises structure not involved in applicant's disclosure. The structure involved is that which produces an indication on the scale 9 by the pointer 8. This indication would be controlled by the connection of the discs 5 of Henderson direct to the precession axis 2 in a manner similar to applicant's member 7 mounted on the precession axis, as shown in Fig. 1, if it were not for the intervention of the casing 4 with the viscous fluid therein. It is believed that this connection by means of the viscous fluid from the discs 5 to the casing 4 and to the indicator means 8, 9 is a combination of the same type as that of

applicant except that he uses the magnet instead of the viscous fluid of the patentee. That there is some controlling effect of this viscous fluid appears obvious. The examiner has pointed out that applicant's specification as originally filed indicated that such a fluid might be used instead of the magnet. It is considered that to substitute the magnet for the viscous fluid and its corresponding effect on the indicating means at 8, 9 of the patentee would not amount to a patentable improvement.

In a decision on reconsideration the board adhered to its former view that the claims were unpatentable over the reference and further emphasized the points that it made in its original decision.

In this court, appellant argues at great length that Henderson merely discloses a "turn indicator" and not an angular acceleration indicator. Concerning appellant's invention, we find the following in his brief:

Stated succinctly, appellant provides a two-degree-of-freedom gyroscope with *one resilient constraint or coupling* which limits precession during turn to a function of rate or speed of turn and a *second resilient constraint or coupling* which has one part movable as a rate or speed of turn function and which through a slip connection, actuates a second part, normally held by springs 11 to a central position, so that the second part moves angularly as a function of the craft's angular acceleration. [Italics quoted]

* * * * * * *

Appellant's invention, therefore, lies in the provision of a rate of turn instrument with a mechanism which derives the factor of acceleration from the rate of turn.

In discussing the Henderson reference appellant urges that:

Henderson discloses a turn indicator which consists of a two-degree-of-freedom gyroscope having *a single resilient constraint or coupling* between its precession axis and the indicating means so that gyro precession during craft turn is limited to a function of the rate or speed of craft turn. [Italics quoted]

Appellant, on the other hand, has devised a novel angular acceleration indicating instrument which comprises a two-degree-of-freedom gyroscope having *one resilient constraint or coupling* defined by arm 5 and springs 6 connected with a portion of the precession axis so as to constrain gyro precession during a craft turn to a function of the rate or speed of the craft turn and *a second resilient constraint or coupling* formed by arm 7 attached to another portion of the precession axis and a magnet 8 carried by the arm and movable as a function of the rate or speed of craft turn, together with an indicating means which is movable during movement of magnet 8, but not as a function of the rate movement, but as a function of the angular acceleration of the craft by virtue of the slip connection between the indicating means and the magnet 8. [Italics quoted]

Stated in another manner Henderson has *one resilient coupling* between the gyro precession axis and the indicating means while appellant has *two resilient couplings* between the gyro precession axis and the indicating means. [Italics quoted]

* * * * * * *

The remainder of the claim [11] calling for "means cooperatively associated with said gyroscope for providing a magnetic field, and resiliently constrained indicating means controlled by the combined action of said magnetic field and of the precession of said gyroscope for indicating the angular acceleration of said craft during turning about said axis" defines appellant's *second resilient coupling* comprising the magnet 8 and the indicator 9 arranged between the poles of the magnet and being resiliently constrained by springs 11. *This latter structure is the very structure which converts a turn indicator into an angular acceleration indicating instrument.* [Italics quoted]

There is no structure in Henderson upon which the latter portion of the claim could be applied for the simple reason that Henderson's instrument is a turn indicator and is not concerned with providing a second resilient coupling so as to indicate angular acceleration rather than rate of craft turn.

The position of the Solicitor for the Patent Office in this court is that the tribunals below were correct in holding that if the magnetic device of appellant were substituted for the viscous fluid device of Henderson, both devices would accomplish the same purpose, to wit, indicate the angular acceleration of the aircraft in making a turn. The solicitor contends that the Henderson device has no function except that of indicating what appellant has so frequently referred to as indicating angular acceleration. The solicitor admits that the Henderson patent says nothing about angular acceleration in his specification and has no claim which, in terms, covers this feature, but earnestly argues that the device of Henderson inherently has the same function as that of the device of the applicant which is defined in the claims at bar.

As we understand it, appellant urges, in substance, that Henderson's indicator will merely show the operator of an aircraft the degree, or at most the speed, of the turn he is making. Appellant says that the function of his device is to determine the amount of acceleration (increase in speed) that may take place while a turn is being made. In other words, the turn might start and proceed continuously at 100 miles per hour, but if greater speed was acquired in making the turn, appellant's device would determine the amount of acceleration of the turn.

It is the view of the Patent Office that Henderson's device, with its gyroscopic instrument which cooperates, in the manner shown in Figure 1, with his viscous brake device 4, 5, together with the springs 6, performs the function of indicating angular acceleration. The Solicitor for the Patent Office in explaining the Henderson device states that the movement of the gyroscopic wheel which takes place when the craft is turning brings pressure against the viscous fluid device and springs, and that at first when the speed is increased, the indicator will start to move slowly and as the speed increases the indicator will move farther and thereby indicate the amount of angular acceleration. In his brief he says:

* * * If the gyroscope tilts very slowly, as would occur in consequence of a small angular acceleration of the aircraft, the casing 4 will remain somewhere near its central or zero position. On the other hand, if the gyroscope tilts rapidly in consequence of a rapid angular acceleration, the casing 4 will be carried around almost as far as the gyroscope tilts. * * *

It is argued by the solicitor, and it is implicit in the holdings of the tribunals below, that this function of Henderson is all that appellant describes, claims and emphasizes. The tribunals below, therefore, held that to substitute appellant's magnetic device and springs for the fluid brake and springs of Henderson would not amount to invention.

On the other hand, appellant argues, in substance, most earnestly, that the Henderson device when so modified should not be regarded as anticipatory, and should not "'negative patentable novelty in appellant's structure." He further argues that if it were assumed that appellant's magnet has the same function as Henderson's viscous connection, a substitution of his magnetic device in the Henderson structure would not produce an indicator having the function of appellant's for the reason that further modification would be required. Proceeding upon this premise, he further contends as follows:

If, for example, appellant's magnet 8 of the second resilient connection were replaced by a fluid coupling such as that of Henderson the claimed device still constitutes invention over the reference because the substituted fluid connection of the second constraint would necessarily be associated with a turn indicator so as to derive the function of angular acceleration from the rate function derived by the turn indicator. In other words, whether appellant uses a magnet or a fluid connection as his second resilient constraint he still provides a gyroscope, *the axis of precession of which is connected to indicating means thru two resilient constraints, one deriving rate from amount and the other acceleration from rate,* while Henderson's structure is one having *one* resilient constraint between the gyro precession axis and the indicating means. Henderson's one constraint comprises, as pointed out before, the spring constrained drum 4 and discs 5. Therefore, appellant's instrument is structurally and functionally different from Henderson's and constitutes invention thereover. [Italics quoted]

It has not been an easy matter to understand the exact results of the operation of the devices of appellant and Henderson, and we could be mistaken about the manner in which one or both would perform. The examiner and the board could also be mistaken. However, notwithstanding the lengthy argument of appellant, both oral and in his brief, and a consideration of the record as a whole, we are not convinced that the tribunals of the Patent Office were in error in holding that the substitution of the said features of appellant in the device of Henderson would enable appellant to obtain the same result as he now claims for his device and that such substitution would not amount to invention. It is true that no prior art reference is cited showing a magnetic device like that of appellant. Appellant is not here asking for a patent on his magnetic device, and, in considering the involved claims, we are not concerned with its patentable status but only with the function which it performs in the combination claimed.

From the foregoing it therefore follows that the decision of the Board of Appeals should be, and it is, affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

TEMPLE *v.* LITTLEHALE

No. 4,568. Decided February 24, 1942

[125 F.(2d) 730]

1. APPEAL—RECORD—STIPULATION.
   Held that the rules of the Court of Customs and Patent Appeals do not permit stipulated excerpts from the decisions of the Patent Office tribunals, and that all such decisions relating to issues before that court should be certified to the court in the form rendered.

2. INTERFERENCE—PRIORITY.
   Record reviewed and *Held* that, as filed, the application of T, the junior party, did not support counts 1, 2, and 3 of the interference, and that priority as to these counts properly was awarded to L, the senior party.

APPEAL from Patent Office. Affirmed.

Messrs. Brown, Critchlow & Flick (*Mr. Frank E. Foots* and *Mr. Fulton B. Flick* of counsel) for Temple.

Mr. W. Saxton Seward for Littlehale.

LENROOT, *J.*:

Appellant has here appealed from a decision of the Board of Appeals of the United States Patent Office in an interference proceeding reversing so much of the decision of the Examiner of Interferences as awarded priority of invention to appellant of the subject matter of counts 1, 2, and 3 of the interference. The decision of the Examiner of Interferences was also reversed with respect to the subject matter of count 9, which the Examiner had awarded to appellant, but that count is not involved in this appeal.

The interference is between an application of appellant filed March 30, 1936, Serial No. 71,694, stated in the application to be a division of his application Serial No. 668,371, filed April 23, 1933, (now Patent No. 2,038,913), and a patent to appellee, No. 2,008,362, issued on July 16, 1935, upon an application filed January 27, 1933, Serial No. 653,882.

Count 1 is illustrative of the subject matter in issue and reads as follows:

1. A tool for performing work on metal or other material comprising a barrel, a working element adapted to be inserted into one end of the barrel and removed from the other end thereof with each operation of the tool, means for exploding a charge of material to actuate said working element, and means serving to position the material upon which work is to be performed with respect to said barrel and adapted to limit movement of the working element in the direction in which it passes through said barrel.

[1] Before proceeding with a discussion of the case we would observe that the decisions of the Board of Appeals, the Examiner of Interferences, and the Primary Examiner do not appear in the record as such; but there is in the record a document entitled "Stipulated Precipe for Appeal Record" in which is contained what is stated to be pertinent parts of such decisions. This stipulated record is not in compliance with our rules. Our rule XXV, paragraph 3 (*e*), provides:

(*e*) Further to reduce the costs of appeals, it shall be permissible for counsel for the respective parties, subject to the approval of the Commissioner of Patents, to agree upon a statement of the facts of the case, setting forth the questions raised on appeal and so much only of the evidence as may be necessary to a decision of such question. Such statement shall be in duplicate signed by counsel for the parties and filed with the Commissioner of Patents. * * *

Obviously, the foregoing does not permit stipulated excerpts from the decisions of the Patent Office tribunals. All of such decisions relating to the issues before us should be certified to us in the form rendered.

Each of the counts before us was copied by appellant from appellee's patent. After the declaration of the interference, and within the motion period, appellee moved to dissolve the same upon the ground that appellant's application does not support the counts in issue, and further that certain amendments to appellant's specification constituted new matter.

The invention involved in the counts relates to a tool for performing work upon metal by explosively driving a projectile or working element through a barrel into engagement with the work.

With respect to the working element of appellee's device the patent states:

The working element may take various forms depending upon the character of the work to be performed. In splicing cables, I usually use a cylindrical bolt or projectile such as that shown in Figs. 1 and 9, provided with an annular groove 15 which serves to retain the working element in the cartridge shell during transportation and handling. The end of the shell is provided with an inwardly turned flange engaging the recess 15. However, the working element may be carried by the cartridge in any other suitable way. I have found it possible, with the construction described above, to use the same working element over and over again by merely inserting the element into the end of a charged cartridge. I generally crimp the end of the cartridge into the recess 15 to pre-

vent the working element from being lost but this precaution is not essential to successful operation.

In order to provide means for identifying the operator or the tool used, the end of the working element may have a figure, letter or design formed thereon so that upon engaging the work the design is impressed in the metal. For various purposes and particularly when the tool is used for punching holes of irregular shape in the material operated upon, the working element may be given any desired shape or configuration consistent with the use thereof in a tool of this character.

The patent also states:

In each of the forms of the invention described above it is preferable that the bullet or working element, when it comes to rest in engagement with the work, or the working element in the case of the structure shown in Fig. 10, shall not pass completely out of the end of the barrel. As shown in Fig. 9 the working element, upon engagement with the cable splicing elements 63 and 64, is brought to rest with the rearward portion of the working element extending a distance of one-eighth to three-sixteenths of an inch into the barrel. * * *

With respect to the use of the tool for splicing cables the patent states:

In splicing cables with the tool described above the ends of the cable 64 are inserted into a soft copper sleeve 63, as shown in Fig. 9. The tool is loaded by raising the locking arm 21 and moving the barrel forward to permit the insertion of a cartridge carrying the working element into the rear of the barrel or explosion chamber. The size, shape and weight of the working element, as well as the charge of powder or other explosive material used, are chosen in each case to effect the desired operation on the work. In some instances I may use an ordinary loaded cartridge such as that used in ordinary firearms instead of specially formed working elements. However, for cable splicing operations the use of pointed, lead or jacketed bullets is usually less satisfactory than the use of a flat nosed, steel working element of the form illustrated.

Appellant's application as originally filed states in part:

The invention, which has an especially important use in forming electrical connections, resides generally in driving an element into one or both of the members to be joined under the impulse created by a confined explosive charge.

* * * * * * *

One of the objects of the present invention is the provision of improved means for forcing a projectile-like member into a solid bond to thereby expand it to a point where a substantially perfect connection will be obtained.

In its broader aspect, however, the instant invention contemplates the provision of means for securing male and female members together by driving a projectile into the male and/or the female member under high velocity. The projectile may penetrate only the male member, thereby expanding its sides against the aperture in the female member, or it may penetrate both members, the perfect connection being obtained as a result of the expansion. In any event, the penetrating action causes the members to expand and by so doing affixes them together under great pressure through the lateral expansion of the materials.

The structure disclosed in appellant's application is described in the excerpt from the decision of the Examiner of Interferences, which description, omitting reference numerals, reads as follows:

* * * A C-shaped anvil member is threaded to a barrel and is adapted to hold the parts to be operated upon against the muzzle thereof. A breech block, provided with a firing pin, is threaded to the other end of the barrel. The cartridge used by Temple comprises a detonator block, a cup-shaped piston, and a pointed projectile, held together by a threaded screw. In operating the device the firing pin is struck to detonate the cap in the detonator block and thus ignite a charge located in the chamber between the block and piston. The increasing pressure in this chamber finally breaks the screw, permitting the piston, projectile and a portion of the screw to travel down the barrel. The projectile penetrates the parts to be united until the piston engages and is stopped by those parts, whereupon the projectile is separated from the piston and imbeds itself somewhat further in the parts operated upon. * * *

The said excerpt further states:

* * * The cup shaped piston indents the work to some extent and is held in the barrel until the bonded parts are removed, when it can be extracted from the muzzle. The cup may be used repeatedly by assembling it with a new screw, projectile, and explosive charge. * * *

With respect to the statement last above quoted, we would observe that there is nothing in appellant's application as originally filed to indicate that the cup-shaped piston indents the work to any extent, or that the cup-shaped piston may be used repeatedly by assembling it with a new screw, projectile, and explosive charge. However, many months after the application was filed, amendments were made to the specification setting forth the foregoing functions of the device.

The Primary Examiner, is denying appellee's motion to dissolve the interference, held that the working member in appellant's device was the cup-shaped piston, and that, so considered, appellant's application supports the counts.

Testimony was taken by both parties, and stipulated excerpts therefrom are contained in the record.

In view of such testimony the Examiner of Interferences on final hearing considered appellee's contention that appellant had no right to make the claims corresponding to the counts here involved. We quote from the excerpt from his decision found in the record:

Littlehale also urges that Temple has no right to make the counts. His contentions have been adversely ruled upon by the Primary Examiner in the interlocutory motion referred to at the beginning of this decision, but it is urged that testimony has been presented which would justify the Examiner of Interferences reinvestigating the matter. The testimony relied upon is for the most part quoted on pages 26 and 27 of Littlehale's brief, and comprises statements by engineers of the Brooklyn Edison Company that the deformation caused by the piston cup (137 in the Temple application) was thought not to play an appreciable part in the effectiveness of the joint. Such testimony is in the nature of opinion (Cf. *Schultz* v. *Dunham*, 401 O. G. 719; 1930 C. D. 11). Moreover, it perhaps might be due to the particular interest placed on the idea of the penetrating element which was viewed as a development of the company (Cf. Seeley, X. Q. 31) although cartridges having such an element had been used long before by Temple.

It does not appear, moreover, that the Primary Examiner was laboring under any misconception as to the difference of indentation (which would at most be one of degree) between the piston cup of Temple and the projectile of Littlehale. Accordingly, it is not believed that the testimony referred to by Littlehale would justify this tribunal in disturbing the ruling of the Primary Examiner that Temple can make the counts. * * *

We would observe that the testimony referred to in the above quotation is not contained in the record.

Upon appeal the Board of Appeals reversed the decision of the Examiner of Interferences. It held that appellant's disclosure does not support the counts before us and awarded priority of invention of the subject matter of said counts to appellee. The Board of Appeals in its decision stated:

Coming now to the question of whether the Temple application supports the counts involved in this appeal and taking up first counts 1, 2, and 3, it appears that the controlling feature is, what constitutes "a working element" in the Temple disclosure. This term we believe to be so broad as to be substantially indefinite unless considered in connection with other matter. It is considered, therefore, that this is an instance in which it is proper to inspect the application where the term originated in order to determine its meaning. In the Littlehale application, where the counts originated, there appears to be no question but that the applicant employed this term as another name for projectile and that when he was referring to this element, he meant the entire part which is moved through the barrel by the explosion, including the tip portion which engaged the work. It is our view, therefore, that this term, when applied to the Temple device, includes the cup-shaped member 64 together with the penetrating member 60, and the portion of the screw member which connects these two parts together.

We shall now consider the clause occurring directly after the term "a working element," which is as follows:

"adapted to be inserted into one end of the barrel and removed from the other end thereof with each operation of the tool."

There is no description in the Temple application of reusing either the cap member 64 or the penetrating element 60. While it seems probable that, after the penetrating member is removed from the seal as referred to in the description in connection with Fig. 12, this member could be reunited with the cup member by employing a new screw connection and the thus reassembled "working element" could be inserted in one end of the barrel at each operation. This, however, is a matter of speculation as possibly both portions of the working element would be affected by the first explosion in such a manner that they would not be suitable for reuse. Furthermore, the screw stub could not be reused. In other words, the same complete "working element" could not be again inserted in the barrel at each operation. It is our opinion, therefore, that the language of counts 1, 2, and 3 when given the obvious and usual meaning, does not fairly read upon the disclosure of the party Temple.

It is apparent from the foregoing that the only question before us is the right of appellant to make the claims corresponding to counts 1, 2, and 3.

There is only one element of the counts which is in controversy. That element in each of the counts is identically stated and reads as follows:

* * * a working element adapted to be inserted into one end of the barrel and removed from the other end thereof with each operation of the tool * * *.

As we construe the phraseology of this element it requires that at the end of each operation some portion of the working element remains in the barrel of the tool, and that it, the working element, must be of such a character that it can be removed from the barrel and may again be employed for another operation of the tool.

Appellant admits that his written specification, as originally filed, does not describe a working element adapted to be inserted into one end of the barrel and removed from the other end thereof with each operation of the tool, but his contention is that the features not described are inherent in what is disclosed in his patent application. Of course, if this contention can be sustained, appellant has the right to make the claims corresponding to the counts.

However, it must clearly appear that the elements not described are inherent in the structure which is described in an application.

In the case of *Hansgirg* v. *Kemmer*, 26 C. C. P. A. (Patents) 937, 102 F.(2d) 212, 505 O. G. 514, we said:

* * * Inherency, however, may not be established by probabilities or possibilities. The mere fact that a certain thing may result from a given set of circumstances is not sufficient. * * *

In our discussion of the merits of the case at bar the first matter to be determined is the meaning of the term "working element" in the counts.

This, standing alone, is a broad and indefinite term, and appellant concedes that it is proper to examine appellee's patent, where the counts originated, to determine the meaning of this term.

It is clear from appellee's patent that his working element is his projectile alone, and that the term "working element" as there used means an element which works upon metals.

Therefore, in considering appellant's disclosure, in order to sustain appellant's contention we must restrict the working element shown by him to one which works upon metals.

The Primary Examiner and the Examiner of Interferences found that the piston cup of appellant's device worked upon the metal to be treated in that, after the explosion, while the projectile was imbedded in the metal to be worked upon, the piston cup struck that part of the metal next to the end of the barrel and deformed it at least to some extent.

We are not in accord with this view, and apparently the Board of Appeals disagreed therewith. While appellant describes his projectile as being composed of highly tempered steel, nothing is said in his application respecting the composition of his piston cup. While it is undoubtedly intended to be composed of metal, such metal might be softer or harder than the metal to be worked upon, and it is not at all clear that the metal to be worked upon would be at all deformed or otherwise affected by the impact of the piston cup thereon.

Appellant contends that fig. 9 of his drawings discloses that his piston cup does deform the metal worked upon. Fig. 9 shows the position of the projectile after it has penetrated the bond. This figure does disclose what might be regarded as some upsetting of the bond where the cup strikes it. The drawing also shows a deformation of the bond opposite the point of entry of the projectile, but such deformation is clearly caused by the projectile alone. Figure 10 of the drawings shows the result of firing the projectile into the bond from the side of the bond opposite to that which is penetrated in figure 9; but figure 10 shows exactly the same upsetting of material on the side of the bond which, in figure 10, is not struck by the cup. An examination of figures 1 and 2 would seem to indicate that such upsetting of material as is shown in figure 9 could not occur; but in any event, we must conclude that such deformation, if it occurs at all, is caused by the projectile alone.

While an amendment was made to appellant's specification long after its filing date setting forth that the piston cup striking the end of the bond serves to compact the metal and perform work thereon, we find no warrant whatever for this statement in appellant's application as originally filed, and for that reason said amendment is not entitled to any consideration in this interference. Furthermore, it was stipulated by the parties that the issue in this proceeding is whether the disclosure of Temple's application as filed supports counts 1 to 3, inclusive, involved in this appeal.

Indeed appellant, while stressing the fact that the Primary Examiner and the Examiner of Interferences found that his application supports the counts, does not seriously argue here that his working element, that is, the element working upon metal, is his piston cup; on the contrary, he contends that primarily his projectile is his working element. With this view we are in agreement, and we are convinced that appellant's working element, like that of appellee, is the projectile which normally in appellant's conception is imbedded in the metal to be worked upon, while in appellee's conception the projectile normally only indents or deforms the metal.

The Board of Appeals was of the view apparently that appellant's working element was the combination of the projectile, the piston cup, and the screw connecting the two elements, and that as the screw was broken in each operation of the tool, the entire working element could not be removed from the end

of the barrel and again used. Moreover, the Board was of the opinion that both end portions of appellant's working element might be so affected by the first explosion that they would not be suitable for reuse.

It is our view that the working element disclosed by appellant is his projectile, as the projectile disclosed by appellee is his working element, for the reason that in appellant's application as originally filed it is only the projectile which works upon metal. Appellant's application states that the projectile disclosed by him is preferably of finely tempered steel, while appellee's application states that the projectile disclosed by him is preferably made of steel. Therefore, in so far as deforming the projectile by the force exerted by the explosion is concerned, this is no more likely to occur in appellant's device than in the device of appellee.

There remains the question of whether appellant's working element is adapted to be removed from the end of the barrel after each operation—in other words, whether it is adapted to reuse.

In this respect appellant's projectile or working element differs from appellee's projectile in that in the former a screw is employed to connect the projectile, the piston cup, and the detonator block, which screw has a recess or annular groove in the portion between the closed end of the piston cup and the detonator block to facilitate the breaking of the screw when sufficient pressure has been built up by the explosive gases.

It appears from appellant's application that this screw is threaded into the butt end of the projectile, threaded through the piston cup, and threaded into the end of the detonator block. Therefore the breaking of the screw at the point of its recess would not release the projectile from the piston cup for the screw would still be threaded into the cup and into the projectile. Nothing is said in appellant's application about a second breaking of the screw, but it is clearly implied therein that the cup and projectile are separated in some way after the explosion. The application states that when the screw is broken

"the projectile moves forward and into the bond, the cup being stopped when it strikes the end of the bond."

The application further states that the lower end of the opening of the barrel

"is slightly tapered * * * to aid in the removal of the *cup portion* of the projectile hereinafter described, after the detonation." [Italics ours.]

Nothing is said in the application respecting the removal of the projectile from the barrel.

Moreover, the drawings of appellant's application show the projectile imbedded in the work, clearly indicating that the projectile has in some manner become separated from the cup. How this separation occurs is a matter of speculation, but presumably the impact of the projectile upon the work causes a second break in the screw resulting in the separation of the projectile from the cup.

Appellant's amendments, concerning which appellee made the allegation that they constituted new matter, may be considered as evidencing appellant's own construction of his original application. One of such amendments states:

It will be evident that the working elements, namely the projectile 60 and the cup 64, are inserted at one end of the barrel 51 and are removed from the other end thereof with each operation of the tool. The cup 64 may be used repeatedly by assembling it with a *new screw, projectile and explosive charge*, if this be desirable. [Italics ours.]

It will be observed from this amendment, first, that according to appellant's construction of his application the projectile and the cup were in some manner separated after the explosion; it is not stated that the projectile may be repeatedly used, but just that the cup may be again used. Indeed, it would seem to be implied in this amendment that appellant did not regard his projectile as capable of reuse since the amendment recites that the *old cup* may be used again by assembling it "with a *new* screw, *projectile* and explosive charge." [Italics ours.]

The counts require that the entire working element be adapted to be removed from the barrel after each operation of the tool; therefore, under appellant's construction of his application, merely removing the cup after each operation of the tool would not support the counts unless the cup be regarded as a working element in itself, which, as hereinbefore indicated, is not disclosed in appellant's application as being inherent in his structure, nor is it otherwise disclosed therein.

It is true that appellant testified as follows:

* * * In the specific operation, the tensile strength in the joint is obtained greatly by the stud. The conductivity is obtained mostly by the indent that the piston has transferred to the connector and it is a combination of the two that gives the tensile strength and the conductivity which we have been able to obtain in this specific joint.

While appellant does not mention this testimony in his brief or seem to rely upon it, even if we assume that in certain operations the cup does indent the metal in its conjoint use with the projectile, it would mean that appellant's working element should be regarded as consisting of both his cup and projectile. As hereinafter noted, appellant's disclosure, when so construed, does not satisfy the counts.

Assuming for purposes of discussion that appellant's projectile and cup together constitute his working element, then the screw connecting the projectile and cup must likewise be considered a part of the working element, as the Board of Appeals indicated; and appellant admits that the screw could not be reused. Therefore, if the combined projectile, cup and screw be considered as appellant's working element, his application does not support the counts.

However, considering appellant's projectile as his working element, it is not clear from his application that the projectile could be used, if desirable, after each operation. It is true that appellant testified that he had experimentally reused both his piston cup and projectile many times by removing the used portion of the screw. He testified that he dug the projectile out of the work in which it was imbedded. He did not testify, however, in what manner he removed the broken screw, or how difficult an operation it consisted of. If the screw was broken flush with the butt end of the projectile, that is, at the point where the projectile and cup abutted, which would seem to be necessary since a separation of the cup and projectile is contemplated, it would be difficult to remove that portion of the screw remaining in the projectile.

While the counts must be broadly interpreted, we think that they fairly require that the working element must be adapted to be reused, if desirable, after each operation, in substantially the condition in which it is found after each operation is performed.

That this may be done does not appear from appellant's application, and this element of the counts is not inherent in the structure disclosed by appellant.

[2] For the reasons stated, the decision of the Board of Appeals is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

2,122,906, W. H. Baum, Measuring spout for receptacles, D. C., S. D. N. Y., Doc. 11/7, *Upper Lubrication Oil Co. of America, Inc.*, v. *Petroleum Solvents Corp.* Consent order (notice Mar. 26, 1942).

2,125,742, H. O. Sundhauss, Abrasive disk, D. C., N. D. Ill., E. Div., Doc. 3454, *Industrial Abrasives, Inc.*, v. *Fibre Abrasive Corp.* Bill dismissed with prejudice on motion of plaintiff Feb. 4, 1942.

2,140,898, W. S. Collens et al., Method of and apparatus for producing intermittent venous occlusion, filed Feb. 25, 1942, D. C., S. D. N. Y., Doc. 17/313, *U. M. A., Inc.*, v. *Burdick Corp.*

2,151,187, D. E. Christopher, Electric photometer, D. C., S. D. N. Y., Doc. 15/216, *Research Engineering Co.* v. *Haynes Products Co.* Order dismissing bill (notice Feb. 26, 1942).

2,151,644, H. C. Stephens, Method and means for deaerating liquid food products, filed Mar. 6, 1942, D. C., S. D. Calif. (Los Angeles), Doc. 2107, *Natural Food Products Co.* v. *Libby, McNeill & Libby.*

2,152,699, Kuester Beck, Heating or cooling system, filed Mar. 25, 1942, D. C. Wis. (Milwaukee), Doc. 723, *J. Kuester et al.* v. *B. Hoffmann Mfg. Co.*

2,153,262, T. McFall, Extension table, D. C., W. D. Mich. (Grand Rapids), Doc. 225, *Michigan Artcraft Co.* v. *Grand Rapids Furniture Co.* Stipulation and order of dismissal without prejudice Mar. 30, 1942.

2,157,756. (See Re. 21,615.)

2,168,304. (See 2,230,931.)

2,174,707, E. Prati, Process for treating fruit pomace, D. C., N. D. Calif. (Sacramento), Doc. 4377, *E. Prati* v. *Franzia Bros. Winery.* Dismissed Mar. 30, 1942.

2,187,989, N. E. Squire, Shooting gallery, D. C., N. D. Ill., E. Div., Doc. 1388, *J. A. Russell* v. *J. P. Seeburg Corp.* Bill dismissed as lacking invention Oct. 14, 1940. Decree reversed Feb. 12, 1942. Patent held valid and infringed, injunction Feb. 18, 1942.

2,192,446, H. Lehde. Garment trimming machine, filed Apr. 1, 1942, D. C., S. D. N. Y., Doc. 17/470, *L. Levy et al.* v. *Dress Bottom Cutter Corp. et al.*

2,201,759, E. Bry, Two-color boucle, D. C., S. D. N. Y., Doc. 10/16, *Edwin & Louis Bry, Inc.*, v. *Frederick Lausser & Son.* Consent order of discontinuance (notice Apr. 7, 1942).

2,209,689, W. H. Dew, Gasoline metering mechanism for trucks provided with power take-offs, filed Mar. 24, 1942, D. C. Mass., Doc. 1842, *E. L. Beckwith* v. *S. F. Bowser & Co., Inc.*

2,217,914, R. F. McMahan, Folding table hardware, filed Sept. 2, 1942, D. C. Ky. (Louisville), Doc. 338, *Bade-Cummins Mfg. Co. et al.* v. *Louisville Tool & Die Co.*

2,219,974, E. A. Bellow, Smokers' ash tray adapted to rest on chair arms or other supports, D. C., N. D. Ill., E. Div., Doc. 2619, *E. A. Bellow et al.* v. *Park Sherman Co., Inc., et al.* Patent held invalid and bill dismissed Feb. 3, 1942.

2,230,931, W. J. Bussert, Composition for and method of extending the life of cut flowers; T. M. 366,178, same. Preparation for the use in prolonging the life and beauty of cut flowers; 2,168,304, A. A. Meyer, Composition for preserving flowers, D. C., N. D. Ill., E. Div., Doc. 3022, *W. J. Bussert* v. *Flower Foods, Inc., et al.* Dismissed with prejudice Feb. 16, 1942.

2,232,237, G. J. Hopkins, Refrigerator, filed Mar. 30, 1942, D. C., S. D. Ohio, E. Div., Doc. 508, *McCray Refrigerator Co.* v. *Morton Shoe Cases, Inc.*

2,234,903, T. J. Muench, Floating candle, suit for declaratory judgment, filed Apr 14, 1942, D. C., N. D. N. Y., Doc. 1031, *Columbia Wax Works* v. *Muench-Kreuzer Candle Co., Inc.*

2,236,706, J. P. Damonte, Pump, filed Mar. 25, 1942, D. C., E. D. La., Doc. 597, *J. P. Damonte* v. *Higgins Industries, Inc.*

2,238,347, O. L. Starr, Sprocket wheel, D. C., S. D. Calif., C. Div., Doc. 2074, *Caterpillar Tractor Co.* v. *Alloy Steel & Metals Co.* Patent held valid, injunction Mar. 31, 1942.

2,241,229. C. A. Williams, Culinary utensil and method of making same, filed Mar. 20, 1942, D. C., S. D. N. Y., Doc. 17/436, *T. Friedman* v. *The Washburn Co. et al.*

2,244,868, E. W. Dunbar, Manufacture of shoes, filed Mar. 24, 1942, D. C. Mass., Doc. 1840, *Cambridge Rubber Co. et al.* v. *The Superior Fibre Counter Co.* Doc. 1841, *Cambridge Rubber Co. et al.* v. *The Strager Counter Co., Inc.*

2,245,904, G. R. Constantine, Method of and machine for making wedge heels, filed Apr. 13, 1942, D. C. Mass., Doc. 1865, *The Service Wood Heel Co.* v. *Louis Heel Corp.*

2,255,357, E. B. Hawthorne, Transportation trailer for livestock, filed Apr. 8, 1942, D. C. Kans., 3d Div., Doc. 1272, *E. B. Hawthorne* v. *G. Jackson et al.*

2,259,962, H. L. Owen, Shingle, D. C., S. D. Calif. (Los Angeles), Doc. 1944–RJ, *V-Way Shingle Products, Inc.*, v. *C. A. Dressel et al.* Consent decree holding patent valid and infringed, injunction Mar. 26, 1942.

2,269,376, C. N. O'Day, Diffuser for the outlets of air ducts, D. C., S. D. N. Y., Doc. 17/152, *W. B. Connor Engineering Corp.* v. *Air Devices, Inc.* Stipulation as to plaintiff's voluntary dismissal (notice Feb. 25, 1942).

Re. 21,615 (of 2,157,756), M. Irwin, Irrigating apparatus, D. C., W. D. Mo. (Kansas City), Doc. 884, *Associated Laboratories et al.* v. *D. Coombs et al.* Bill dismissed Apr. 4, 1942.

T. M. 366,178. (See 2,230,931.)

Disclaimers

Re. 20,370.—*Theodore Emile Lefort*, Paris, France. PROCESS FOR THE PRODUCTION OF ETHYLENE OXIDE. Patent dated May 18, 1937. Disclaimer filed May 14, 1942, by the assignee, *Carbide and Carbon Chemicals Corporation.*

Hereby disclaims claims 8 and 9 of said patent.

Re. 20,590.—*Audley Hart Stow*, deceased, late of Charleston, W. Va., by *Sanford Investment Company*, assignee. MINE AND OTHER CAR. Patent dated December 14, 1937. Disclaimer filed May 25, 1942, by the assignee, *Sanford Investment Company.*

Hereby enters this disclaimer to claims 2, 4, 5, 6, 7, 8, 9, 15, 16, 17, 18, 19, 20, 21, 22, 24, 25, 28, 29, 32, 33, 35, 36, 37, 39, 41, 42, 43, 44, 45, 46, 47, 52, 53, 54, 58, 59, 60, 62, 63, 64, 69, 71, 76, 77, 78, 79, 80, 81, 82, 84, 85, 86, 87,

88, 89, 90, 91, 92, 94, 95, 96, 97, 98, 99, 100, 101, 106, 107, 109, 114, 115, 116, and 117 in said specification.

1,773,695.—*Charles W. Morden*, Portland, Oreg. METHOD FOR CONCEALING THE VISIBILITY OF JOINTS IN COMPOSITE SURFACES. Patent dated August 19, 1930. Disclaimer filed May 13, 1942, by the assignee, *Mastic Asphalt Corporation.*

Hereby enters this disclaimer to claims 2 and 4 of said Letters Patent.

1,869,760.—*Sern Madsen*, Clinton, Iowa. WEATHERPROOF WINDOW CONSTRUCTION. Patent dated August 2, 1932. Disclaimer filed May 18, 1942, by the assignee, *Curtis Companies Incorporated.*

Hereby disclaims claims 9, 10, 11, 12, 13, 14, and 15 of said patent.

1,941,769.—*Gilbert J. Ward*, Brooklyn, N. Y. IMPREGNATED FIBROUS BLOCK. Patent dated January 2, 1934. Disclaimer filed May 13, 1942, by the assignee, *Mastic Asphalt Corporation.*

Hereby enters this disclaimer to claim 1 of said Letters Patent.

1,961,016.—*Audley Hart Stow*, Maybeury, W. Va. MINE CAR. Patent dated May 29, 1934. Disclaimer filed May 25, 1942, by the assignee, *Sanford Investment Company.*

Hereby enters this disclaimer to claims 22, 23, 24, 25, 31, 33, 34, 35, 36, 37, 38, 39, 45, 46, 48, 51, 52, 56, 59, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 83, 84, 85, 86, 87, 88, 91, 92, 97, 100, 104, 105, 106, 107, 108, 112, 114, 115, 116, 117, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 145, 146, 148, 149, 150, 151, 152, 153, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 188, 189, 191, 193, 194, 195, 196, 198, 200, 201, 202, 203, 204, 205, 207, and 209 of said specification.

1,961,018.—*Audley Hart Stow*, Charleston, W. Va. MINE CAR AND THE LIKE. Patent dated May 29, 1934. Disclaimer filed May 25, 1942, by the assignee, *Sanford Investment Company.*

Hereby enters this disclaimer to claims 7, 8, 10, 11, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 58, 60, 61, 62, 65, 66, 67, 68, 69, 70, 74, 78, 80, 81, 85, 86, 89, 90, 91, 94, 95, 97, 100, and 103 of said specification.

2,087,318.—*Carl W. Foss*, Niagara Falls, N. Y. ABRASIVE DEVICE. Patent dated July 20, 1937. Disclaimer filed May 22, 1942, by the assignee, *The Carborundum Company.*

Hereby disclaims the subject matter of claims 1, 2, 3, and 4 of said Letters Patent.

2,163,757.—*Robert S. Maclean* and *Charles W. Pollard*, Michigan City, Ind. APPARATUS FOR WEATHERPROOFING COMPOSITION BOARD. Patent dated June 27, 1939. Disclaimer filed May 13, 1942, by the assignee, *Mastic Asphalt Corporation.*

Hereby enters this disclaimer to claims 1, 5, 9, 10, 12, and 13 of said Letters Patent.

2,186,977.—*Cutler D. Knowlton*, Beverly, Mass. BOX MAKING. Patent dated January 16, 1940. Disclaimer filed May 18, 1942, by the assignee, *Hoague-Sprague Corporation.*

Hereby enters this disclaimer to claim 7 of said Letters Patent.

2,212,100.—*Clyde D. Keaton*, New York, N. Y. COFFEE MAKER. Patent dated August 20, 1940. Disclaimer filed May 19, 1942, by the assignee, *Stanley S. Tumbridge.*

Hereby enters this disclaimer to claim 1 in said specification.

2,215,057.—*Burton E. Shaw*, Bristol, Ind. REFRIGERANT SYSTEM CONTROLLER. Patent dated September 17, 1940. Disclaimer filed May 2, 1942, by the inventor; the assignee, *Penn Electric Switch Co.*, approving.

Hereby enters this disclaimer to claim 3 of said patent.

2,236,842.—*William G. Allyn*, Auburn, N. Y. ENDOSCOPIC INSTRUMENT. Patent dated April 1, 1941. Disclaimer filed May 25, 1942, by the inventor; the assignee, *William N. Allyn*, consenting.

Hereby enters this disclaimer to claim 1 of said patent.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 16, 1942

[VOL. 539. No. 3]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 438,241. JOHN I. HAAS, INCORPORATED, Washington, D. C. Filed Nov. 26, 1940.



Applicant disclaims all wording apart from the mark.
FOR HOPS.
Claims use since July 1, 1940.

Ser. No. 452,188. CLOVER DARBY COAL COMPANY, INC., Closplint, Ky. Filed Apr. 7, 1942.



The word "Coal" is disclaimed apart from the mark.
FOR COAL.
Claims use since Mar. 5, 1942.

Ser. No. 452,522. CONSOLIDATION COAL COMPANY, New York, N. Y. Filed Apr. 23, 1942.



FOR COAL.
Claims use since Mar. 28, 1942.

CLASS 2

RECEPTACLES

Ser. No. 450,471. THE BOLTA COMPANY, Lawrence, Mass. Filed Jan. 26, 1942.



FOR SERVING TRAYS MADE OF PLASTIC MATERIALS.
Claims use since Dec. 12, 1941.

Ser. No. 452,389. LEO MALCOLM DOUGLAS, Centralia, Wash. Filed Apr. 17, 1942.

KOINKICKER

The word "Koin" is disclaimed apart from the mark.
FOR HOLDERS OF METAL, WOOD, PLASTIC, OR SIMILAR MATERIALS, FOR HOLDING AND DISPENSING COINS, TAX TOKENS, AND THE LIKE.
Claims use since Mar. 1, 1942.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 452,510. PARISTYLE BAGS, INC., New York, N. Y. Filed Apr. 22, 1942.

BUNNY WHITE

The word "White" is disclaimed apart from the mark.
FOR LADIES' HANDBAGS MADE OF CALFSKIN, LEATHER, PLASTIC MATERIALS AND COMBINATIONS THEREOF.
Claims use since Mar. 1, 1941.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 426,407. FITZPATRICK BROS., INC., Chicago, Ill. Filed Dec. 9, 1939.

K K Jr

FOR SOAP, SOAP FLAKES, SOAP CHIPS, AND A CLEANING PREPARATION IN FINELY DIVIDED FORM FOR HOUSEHOLD USE.
Claims use since Nov. 10, 1939.

Ser. No. 452,170. MURLEY, LLOYD & COMPANY, INC., New York, N. Y. Filed Apr. 6, 1942.

VINTAGE

FOR TOILET SOAP.
Claims use since Nov. 7, 1941.

Ser. No. 451,693. THE SPECIAL FORMULA CORPORATION, Bloomfield, N. J., and New York, N. Y. Filed Mar. 17, 1942.

jalma

FOR WASHING AND CLEANING PREPARATION.
Claims use since Nov. 15, 1933.

Ser. No. 452,181. ZELLERBACH PAPER COMPANY, San Francisco, Calif. Filed Apr. 6, 1942.

GREASORBA

FOR SWEEPING COMPOUND.
Claims use since Feb. 2, 1942.

CLASS 5

ADHESIVES

Ser. No. 452,218. THE F. G. FINDLEY CO., Milwaukee, Wis. Filed Apr. 8, 1942.

PICK-ETS

FOR ADHESIVE CEMENT PARTICULARLY CONSTITUTED AND ADAPTED FOR USE IN AFFIXING ONE EDGE OF A LABEL TO A CAN OR SIMILAR CONTAINER IN A LABELING MACHINE.
Claims use since Feb. 6, 1942.

CLASS 6

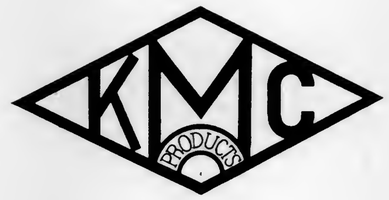
CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 434,387. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed July 27, 1940.



FOR COUGH DROPS AND CHEWING GUM FOR ORAL HYGIENE.
Claims use since Sept. 20, 1932, on cough drops, and since Feb. 8, 1933, on chewing gum for oral hygiene.

Ser. No. 442,360. KEARNY MANUFACTURING COMPANY, INC., Kearny, N. J. Filed Apr. 7, 1941.



The word "Products" is disclaimed apart from the mark.
FOR CONDITIONING LIQUIDS IN THE FORM OF CHEMICAL PREPARATIONS FOR THE TREATMENT OF TEXTILE FIBRES, PARTICULARLY FOR IMPROVING AND PRESERVING THE SAME, FINISHING COMPOUNDS IN THE FORM OF CHEMICAL ORGANIC DETERGENT PENETRANT AND WETTING AGENTS FOR FINISHING TEXTILES, CHEMICAL ORGANIC REPELLANT AGENTS PREFERABLY IN THE FORM OF A THICK PASTE USED FOR WATERPROOFING FABRICS SUCH AS COTTONS, RAYONS AND WOOL, CHEMICAL ORGANIC SOFTENING AGENTS PREFERABLY IN THE FORM OF A PASTE FOR TREATING RAYON AND SPUN RAYON FABRICS FOR IMPARTING A VERY SOFT FULL HAND THERETO, CHEMICAL ORGANIC MOTHPROOFING AGENTS PREFERABLY IN THE FORM OF A POWDER FOR THE TREATMENT OF TEXTILES, CHEMICAL ORGANIC RAPID WETTING AGENTS PREFERABLY IN LIQUID FORM DESIGNED FOR IMMEDIATE WETTING AND SCOURING AGENTS FOR THE TREATMENT OF TEXTILES.
Claims use since Sept. 10, 1940.

Ser. No. 442,372. W. G. SHELTON COMPANY, St. Louis, Mo. Filed Apr. 7, 1941.



Applicant disclaims the name "Shelton" and the words "Kreem Wave" apart from the mark.
FOR PERMANENT WAVE CREAM.
Claims use since July 1, 1940.

Ser. No. 447,142. ADA MARCELLUS, doing business as Toplax Co., New York, N. Y. Filed Sept. 18, 1941.

Top Lax
A SENNA LAXATIVE

No claim is made to the words "A Senna Laxative" apart from the mark.
FOR LAXATIVE.
Claims use since Sept. 2, 1941.

Ser. No. 449,948. SAMUEL L. ABBOT, doing business as S. L. Abbot Company, San Francisco, Calif. Filed Jan. 2, 1942.

SCOUT

FOR SODIUM ARSENATE.
Claims use since Nov. 24, 1941.

Ser. No. 450,378. PURITAN CHEMICAL COMPANY, Atlanta, Ga. Filed Jan. 21, 1942.

DRIER-OUTER

Applicant disclaims the word "Drier" except in association with the word "Outer."
FOR DEVICE CONTAINING CHEMICALS FOR USE IN ABSORBING MOISTURE AND AS A DEODORIZER.
Claims use since December, 1941.

Ser. No. 450,671. JAMES L. YOUNGHUSBAND, Chicago, Ill. Filed Feb. 2, 1942.



FOR PREPARATIONS FOR THE HANDS AND FINGER NAILS COMPRISING NAIL POLISH, NAIL LACQUER, NAIL POLISH REMOVER, PADS SATURATED WITH NAIL POLISH REMOVER, NAIL POLISH RENEWER, NAIL LACQUER PROTECTOR, NAIL BALM FOR THE CUTICLE, HAND LOTION, AND HAND CREAM.
Claims use since June 13, 1938.

Ser. No. 450,966. L. R. KALLMAN, doing business as L. R. Kallman & Company, Chicago, Ill. Filed Feb. 14, 1942.

atomCreme

Applicant disclaims the word "Creme" apart from the mark.

FOR NEUTRAL FACE CREAMS HAVING INCIDENTAL SAPONACEOUS CLEANSING PROPERTIES.

Claims use since Jan. 2, 1942.

Ser. No. 451,915. MEDICAL RESEARCH LABORATORIES, INC., Cleveland, Ohio. Filed Mar. 26, 1942.

TANNODIN

FOR MEDICINAL AND DENTAL PRODUCTS IN WHICH THE PRINCIPAL INGREDIENTS ARE IODINE, TANNIC ACID, PHENOL, AND GLYCERINE, USED MEDICINALLY FOR INTERNAL USE IN THE TREATMENT OF ANY AND ALL ILLNESSES WHEREVER THE USE OF IODINE IS INDICATED AS BENEFICIAL BY MEDICAL AUTHORITIES; THAT IT IS SPECIFICALLY USED IN THE TREATMENT OF GOITERS, BRONCHITIS; THAT IT IS ALSO USED AS AN ANTISEPTIC FOR EXTERNAL APPLICATION AND IS ADMINISTERED BY INTRAVENOUS INJECTION AS WELL AS ORAL INTAKE; THAT AS A DENTAL PRODUCT IT IS USED BY DENTISTS IN THE TREATMENT OF SORE GUMS, PYORRHEA, DRY SOCKETS, AND VARIOUS OTHER TYPES OF MOUTH INFECTIONS.

Claims use since May 1, 1941.

Ser. No. 451,963. JACQUELINE COCHRAN, Roselle, N. J. Filed Mar. 28, 1942.



FOR COSMETICS AND BEAUTY PREPARATIONS—NAMELY, CLEANSING CREAM, LIQUEFYING CLEANSING CREAM, NIGHT CREAM BLEND, AND NIGHT CREAM.

Claims use since Mar. 18, 1941.

Ser. No. 451,969. MAX FACTOR & Co., Los Angeles, Calif. Filed Mar. 28, 1942.



The words "A Gift From Hollywood" are disclaimed apart from the mark.

FOR COSMETICS, PERFUMES, THEATRICAL MAKE-UP, AND SIMILAR PREPARATIONS—NAMELY, FACE POWDER, ROUGE, LIPSTICKS, SKIN CREAMS, CLEANSING CREAMS, SKIN FRESHENERS, SKIN LOTIONS, SHAMPOOS, PERFUMES, TOILET WATER, EYEBROW PENCILS, EYELASH MAKE-UP, MASCARA, ASTRINGENT, A COSMETIC IN THE NATURE OF A SOLIDIFIED CREAM USED FOR A MAKE-UP BASE, EAU DE COLOGNE, HAIR OIL, AND HAIR TONICS.

Claims use since June 18, 1941.

Ser. No. 452,022. NACO FERTILIZER COMPANY, New York, N. Y. Filed Mar. 30, 1942.

NACO-KOP

FOR INSECTICIDE DUST.

Claims use since Oct. 8, 1941.

Ser. No. 452,023. NACO FERTILIZER COMPANY, New York, N. Y. Filed Mar. 30, 1942.

NACO-SUL

FOR INSECTICIDE DUST.

Claims use since Oct. 8, 1941.

Ser. No. 452,080. REVLON PRODUCTS CORPORATION, New York, N. Y. Filed Apr. 1, 1942.

"American Way"

Applicant disclaims the word "American" apart from the mark.

FOR ENAMEL ADAPTED FOR COATING FINGER NAILS, AND LIPSTICKS.

Claims use since Mar. 12, 1942.

Ser. No. 452,149. INSTANT CHEMICAL CORPORATION, New York, N. Y. Filed Apr. 4, 1942.

INSTANT FIRE EXTINGUISHER

Applicant disclaims the phrase "Instant Fire Extinguisher" apart from the mark.

FOR CHEMICAL PREPARATION FOR EXTINGUISHING FIRES.

Claims use since Mar. 18, 1942.

Ser. No. 452,192. CHARLES C. HASKELL & CO., INC., Richmond, Va. Filed Apr. 7, 1942.

CCH CHARLES C. HASKELL & CO., INC.

No claim is made to the words "Charles C. Haskell & Co. Inc." apart from the mark.

FOR MEDICINAL PREPARATIONS FOR USE AS AN ANALGESIC, SEDATIVE, ANTISPASMODIC, ANTIPYRETIC, BACTERIOSTATIC, AND IN THE VITAMIN FIELD AND FOR THE TREATMENT OF HYPOCHROMIC ANEMIA AND CARDIOVASCULAR DISEASE.

Claims use since Jan. 1, 1937.

Ser. No. 452,235. AMERICAN DRUGGISTS SYNDICATE, INC., Long Island City, N. Y. Filed Apr. 9, 1942.

ADSCAPS

FOR VITAMIN COMPOUND.

Claims use since Apr. 1, 1942.

Ser. No. 452,261. ECNAL LABORATORIES, INC., Pasadena, Calif. Filed Apr. 10, 1942.

LANCE FORMULA

No claim is made to the word "Formula" apart from the mark.

FOR DENTIFRICE.

Claims use since Feb. 20, 1942.

Ser. No. 452,311. WALTER NEUMANN, New York, N. Y. Filed Apr. 13, 1942.

ANTHALON

FOR MEDICINAL PREPARATIONS FOR ALLERGIC DISEASES.

Claims use since Oct. 1, 1941.

Ser. No. 452,359. SAMUEL KYLE MAXWELL, JR., Evanston, Ill. Filed Apr. 15, 1942.

Lambskin Lotion

No claim is made to the word "Lotion" apart from the mark.

FOR HAND LOTIONS.

Claims use since Mar. 14, 1942.

Ser. No. 452,372. ARMOUR AND COMPANY, Chicago, Ill. Filed Apr. 16, 1942.

MASTOL

FOR VETERINARY MEDICINES USEFUL AS ANTISEPTICS ESPECIALLY FOR TREATING UDDER INFECTIONS.

Claims use since Mar. 5, 1942.

Ser. No. 452,373. ARMOUR AND COMPANY, Chicago, Ill. Filed Apr. 16, 1942.

Utan

FOR VETERINARY MEDICINES USEFUL AS ANTISEPTICS AND SUITABLE FOR ADMINISTRATION IN THE UTERINE TRACT.

Claims use since Mar. 5, 1942.

Ser. No. 452,412. AVON PRODUCTS, INC., New York, N. Y. Filed Apr. 18, 1942.

BRASS BUTTONS

FOR PERFUMES.

Claims use since Apr. 1, 1942.

Ser. No. 452,450. ROYAL LEE, doing business as Vitamin Products Co., Milwaukee, Wis. Filed Apr. 20, 1942.

CATAPLEX A

Applicant disclaims the letter "A" apart from the mark.

FOR CONCENTRATED VITAMIN PREPARATION.

Claims use since Mar. 30, 1942.

Ser. No. 452,483. ARNOLD PALM, M. D., doing business as Palm Pharmacal Co., New York, N. Y. Filed Apr. 21, 1942.

Vischolinal

FOR MISTLETOE-PHENOBARBITAL PREPARATION ENRICHED WITH CHOLINE FOR HYPERTENSION AND LOCAL VASOSPASMS.

Claims use since October, 1938.

Ser. No. 452,490. AMERICAN HOME PRODUCTS CORPORATION, Jersey City, N. J. Filed Apr. 22, 1942.

EVRAMIN

FOR MEDICINAL VITAMIN PREPARATIONS.

Claims use since Apr. 10, 1942.

Ser. No. 452,491. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa. Filed Apr. 22, 1942.

ULTRANATE

FOR PETROLEUM SULFONATES.

Claims use since Jan. 15, 1940.

Ser. No. 452,511. ROYCE CHEMICAL COMPANY, Carlton Hill, N. J. Filed Apr. 22, 1942.

FLEXOLITE

FOR SYNTHETIC RESIN SUITABLE FOR WARP SIZING AND FOR OTHER TEXTILE PURPOSES.

Claims use since Apr. 16, 1942.

Ser. No. 452,526. FOLEY & COMPANY, Chicago, Ill. Filed Apr. 23, 1942.

LAFFS

FOR HEADACHE TABLETS.
Claims use since Apr. 15, 1931.

Ser. No. 452,538. PREMO PHARMACEUTICAL LABORATORIES, INC., New York, N. Y. Filed Apr. 23, 1942.

COLUMA

FOR ANTACID PREPARATION CONTAINING COLLOIDAL ALUMINUM HYDROXIDE IN TABLET OR LIQUID FORM.
Claims use since Jan. 1, 1942.

Ser. No. 452,559. MCKESSON & ROBBINS, INCORPORATED, New York, N. Y. Filed Apr. 24, 1942.

Kess

FOR SHAMPOO.
Claims use since Apr. 15, 1942.

Ser. No. 452,560. MCKESSON & ROBBINS, INCORPORATED, New York, N. Y. Filed Apr. 24, 1942.

Kesso

FOR SHAMPOO.
Claims use since Apr. 15, 1942.

Ser. No. 452,603. COMMERCIAL SOLVENTS CORPORATION, New York, N. Y. Filed Apr. 27, 1942.

SOLVAMIN

FOR VITAMIN CONCENTRATES USED IN PHARMACEUTICAL PREPARATIONS.
Claims use since Apr. 13, 1940.

Ser. No. 452,711. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed May 1, 1942.

Kodachrome

FOR PHOTOGRAPHIC CHEMICALS.
Claims use since Oct. 23, 1941.

Ser. No. 452,714. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed May 1, 1942.

Kodagraph

FOR PHOTOGRAPHIC CHEMICALS.
Claims use since Oct. 23, 1941.

Ser. No. 452,773. THE GROVE LABORATORIES, INC., Wilmington, Del., and St. Louis, Mo. Filed May 4, 1942.

"DAY BY DAY"

FOR VITAMIN CAPSULES.
Claims use since Apr. 14, 1942.

Ser. No. 452,774. THE GROVE LABORATORIES, INC., Wilmington, Del., and St. Louis, Mo. Filed May 4, 1942.

"DEFENSE"

FOR VITAMIN CAPSULES.
Claims use since Apr. 14, 1942.

CLASS 7

CORDAGE

Ser. No. 442,210. PIEDMONT COTTON MILLS, Egan, Ga. Filed Apr. 2, 1941.

WESCO

FOR TWINE.
Claims use since Jan. 1, 1930.

CLASS 11

INKS AND INKING MATERIALS

Ser, No. 451,602. MITTAG & METHUDY, INC., New York, N. Y. Filed Mar. 13, 1942.

Miracle INK

The word "Ink" is disclaimed apart from the mark.
FOR TYPEWRITER RIBBONS AND CARBON PAPER.
Claims use since Sept. 20, 1941.

Ser. No. 452,319. L. C. SMITH & CORONA TYPEWRITERS, INC., Syracuse, N. Y. Filed Apr. 13, 1942.

Medallion

FOR CARBON PAPER AND TYPEWRITER RIBBONS.
Claims use since June 12, 1941.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 452,016. H-A-B-S CALK PLATE COMPANY, Portland, Oreg. Filed Mar. 30, 1942.

H-A-B-S

FOR CALKED METAL PLATES SUITABLE FOR ATTACHMENT TO SHOE SOLES.
Claims use since Nov. 25, 1941.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 451,492. THE FORGING AND CASTING CORPORATION, Ferndale, Mich. Filed Mar. 9, 1942.

FCC V-MOW

FOR STEEL.
Claims use since Feb. 20, 1942.

CLASS 15

OILS AND GREASES

Ser. No. 450,990. AMERICAN OIL COMPANY, Baltimore, Md. Filed Feb. 16, 1942.

AMERICAN AMOCO

No claim is made to the word "American" apart from the mark.
FOR GASOLINE, LUBRICATING OILS AND GREASES.
Claims use since May 7, 1934.

Ser. No. 451,678. E. F. HOUGHTON & CO., Philadelphia, Pa. Filed Mar. 17, 1942.

TRANSPOID

FOR GEAR LUBRICANTS.
Claims use since Mar. 2, 1942.

Ser. No. 451,746. FREEDOM OIL COMPANY, Freedom, Pa. Filed Mar. 19, 1942.

FONAP

FOR LUBRICATING OILS AND GREASES.
Claims use since June 7, 1941.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 452,508. LARUS & BROTHER COMPANY, INC., Richmond, Va. Filed Apr. 22, 1942.

HI-PLANE



FOR SMOKING TOBACCO.
Claims use since Oct. 27, 1937.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 450,297. SKILSAW, INCORPORATED, Chicago, Ill. Filed Jan. 17, 1942.

SKILDRILL

The word "drill" is disclaimed apart from the mark.
FOR PORTABLE ELECTRICALLY DRIVEN DRILLING MACHINES FOR DRIVING DRILLING BITS FOR DRILLING HOLES IN METAL, WOOD, AND OTHER MATERIALS.
Claims use since Dec. 22, 1941.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 447,975. DANTE QUINTERNO & CIA., doing business as Sindicato Dante Quinterno, Buenos Aires, Argentina. Filed Oct. 21, 1941.



TUPA ISIDORO PATORUZU

FOR DOLLS.
Claims use since April, 1937.

Ser. No. 448,349. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio. Filed Nov. 1, 1941.

OCEAN BREEZE

FOR FISHING TACKLE—NAMELY, FISHING LINES, LEADERS, RODS, AND REELS.
Claims use since Mar. 15, 1941.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 451,866. ATLAS HARDWARE CORP., New York, N. Y. Filed Mar. 24, 1942.

Lion

FOR DRILLS FOR DRILLING IN METAL.
Claims use since July, 1941.

Ser. No. 452,013. GENERAL MACHINERY CORPORATION, Hamilton, Ohio. Filed Mar. 30, 1942. Under 10-year proviso.

PUTNAM

FOR LATHES, PLANERS, SLOTTERS, BORING MILLS, WHEEL LATHES, CAR-WHEEL BORERS, AXLE LATHES, TRAVERSE SHAPERS, BILLET GOUGERS, BILLET PEELERS, MILLING MACHINES, LOCOMOTIVE JOURNAL TURNING LATHE, BURNISHING LATHE, OPEN SIDE PLANERS, AND DRIVING WHEEL LATHES.
Claims use since 1836.

Ser. No. 452,026. ROBERT M. RIGNEY, Alhambra, Calif. Filed Mar. 30, 1942.

CREAMMASTER

FOR COFFEE CREAM DISPENSERS HAVING MECHANICAL MEANS FOR MEASURING AND DISPENSING AN INDIVIDUAL SERVING OF COFFEE CREAM OF A PREDETERMINED AMOUNT.
Claims use since July 15, 1941.

Ser. No. 452,158. BISSELL CARPET SWEEPER COMPANY, Grand Rapids, Mich. Filed Apr. 6, 1942.

Flip-o

FOR MANUALLY OPERATED CARPET SWEEPERS.
Claims use since Mar. 21, 1942.

Ser. No. 452,566. PLEE-ZING, INC., doing business as Household Products Co., Chicago, Ill. Filed Apr. 24, 1942.

REALM

FOR RAZOR BLADES.
Claims use since Feb. 3, 1942.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 451,007. ELECTRONIC PRODUCTS MANUFACTURING, INCORPORATED, Ann Arbor, Mich. Filed Feb. 16, 1942.

VOKAR

FOR PHOTOGRAPHIC APPARATUS AND EQUIPMENT—NAMELY, CAMERAS AND PROJECTORS AND SCRATCH ELIMINATORS FOR NEGATIVES.
Claims use since Dec. 4, 1939.

Ser. No. 451,704. JACQUES BOLSEY, New York, N. Y. Filed Mar. 18, 1942.

DOUBLE 16

The number "16" is disclaimed apart from the mark.
FOR CINEMATOGRAPHIC AND PHOTOGRAPHIC APPARATUS AND ACCESSORIES THERETO—NAMELY, PHOTOGRAPHIC CAMERAS AND PROJECTORS, MOTION PICTURE CAMERAS AND PROJECTORS, LENSES, FILTERS, FILTER HOLDERS, FADING DEVICES, DEVICES FOR DELAYED EXPOSURE, SHUTTERS, PHOTOGRAPHIC ENLARGERS, TITLING, DEVICES, SPLICERS, FILM VIEWERS, FILMS, SLIDES, STEREOSCOPIC ATTACHMENTS, FILM EDITING DEVICES, FILM WINDERS, PROJECTION SCREENS, EXPOSURE METERS, FILM PRINTING AND DEVELOPING APPARATUS, DEVELOPING TANKS, FILM MAGAZINES, TRIPODS, AND TRIPOD HEADS.
Claims use since Feb. 28, 1942.

Ser. No. 451,705. JACQUES BOLSEY, New York, N. Y. Filed Mar. 18, 1942.

DOUBLESIXTEEN

FOR CINEMATOGRAPHIC AND PHOTOGRAPHIC APPARATUS AND ACCESSORIES THERETO—NAMELY, PHOTOGRAPHIC CAMERAS AND PROJECTORS, MOTION PICTURE CAMERAS AND PROJECTORS, LENSES, FILTERS, FILTER HOLDERS, FADING DEVICES, DEVICES FOR DELAYED EXPOSURE, SHUTTERS, PHOTOGRAPHIC ENLARGERS, TITLING, DEVICES, SPLICERS, FILM VIEWERS, FILMS, SLIDES, STEREOSCOPIC ATTACHMENTS, FILM EDITING DEVICES, FILM WINDERS, PROJECTION SCREENS, EXPOSURE METERS, FILM PRINTING AND DEVELOPING APPARATUS, DEVELOPING TANKS, FILM MAGAZINES, TRIPODS, AND TRIPOD HEADS.
Claims use since Feb. 28, 1942.

Ser. No. 451,707. JACQUES BOLSEY, New York, N. Y. Filed Mar. 18, 1942.

SILVER CAMERA

The word "Camera" is disclaimed apart from the mark.
FOR CINEMATOGRAPHIC AND PHOTOGRAPHIC APPARATUS AND ACCESSORIES THERETO—NAMELY, PHOTOGRAPHIC CAMERAS AND PROJECTORS, MOTION PICTURE CAMERAS AND PROJECTORS, LENSES, FILTERS, FILTER HOLDERS, FADING DEVICES, DEVICES FOR DELAYED EXPOSURE, SHUTTERS, PHOTOGRAPHIC ENLARGERS, TITLING, DEVICES, SPLICERS, FILM VIEWERS, FILMS, SLIDES, STEREOSCOPIC ATTACHMENTS, FILM EDITING DEVICES, FILM WINDERS, PROJECTION SCREENS, EXPOSURE METERS, FILM PRINTING AND DEVELOPING APPARATUS, DEVELOPING TANKS, FILM MAGAZINES, TRIPODS, AND TRIPOD HEADS.
Claims use since Feb. 28, 1942.

Ser. No. 452,719. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed May 1, 1942.

THERMOUNT

FOR PHOTOGRAPHIC MOUNTING TISSUE.
Claims use since Mar. 19, 1942.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 452,282. CHAS. BERLIN & CO., INC., New York, N. Y. Filed Apr. 11, 1942.

CHARLIN

FOR WATCHES, CLOCKS, AND PARTS THEREOF.
Claims use since November, 1939.

Ser. No. 452,352. HARMAN WATCH CO., INC., New York, N. Y. Filed Apr. 15, 1942.

VARSITY

FOR WATCHES, CLOCKS, AND PARTS THEREOF.
Claims use since Nov. 1, 1929.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 450,042. AMERICAN INSIGNIA COMPANY, New York, N. Y. Filed Jan. 7, 1942.



FOR EMBLEMATIC JEWELRY AND MILITARY INSIGNIA—NAMELY, PINS, RINGS, BRACELETS, AND LOCKETS MADE OF PRECIOUS METAL.
Claims use since Dec. 1, 1940.

Ser. No. 452,164. GOODMAN AND COMPANY, Indianapolis, Ind. Filed Apr. 6, 1942.

GEM CREST

Applicant disclaims the word "Gem" apart from the mark.
FOR FINGER RINGS, NECKLACES, BRACELETS, EARRINGS, JEWELRY CLIPS, BROOCHES, AND LOCKETS, NOT INCLUDING WATCHES.
Claims use since Nov. 20, 1941.

Ser. No. 452,252. RALSTON & GAGE, New York, N. Y. Filed Apr. 9, 1942.

"NITELIFE"

FOR BROOCHES, PINS, EARRINGS, RINGS, CLIPS, CHARMS, BRACELETS, AND NECKLACES.
Claims use since Apr. 4, 1942.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 449,054. PARFUMS SCHIAPARELLI, INC., New York, N. Y. Filed Nov. 29, 1941.

Salut de Schiaparelli

The name "Schiaparelli" comprises the autographic surname signature of Elsa Schiaparelli, president of applicant corporation.
FOR COMPRESSED COTTON DISCS FOR USE IN BATHING AND WASHING.
Claims use since Sept. 10, 1937.

Ser. No. 449,058. PARFUMS SCHIAPARELLI, INC., New York, N. Y. Filed Nov. 29, 1941.

Schiaparelli

The mark "Schiaparelli" comprises the autographic surname signature of Elsa Schiaparelli, president of applicant corporation.
FOR COMPRESSED COTTON DISCS FOR USE IN BATHING AND WASHING.
Claims use since July 10, 1937.

Ser. No. 449,385. PARFUMS SCHIAPARELLI, INC., New York, N. Y. Filed Dec. 11, 1941.

Shocking de Schiaparelli

The mark "Schiaparelli" comprises the autographic surname signature of Elsa Schiaparelli, president of applicant corporation.
FOR COMPRESSED COTTON DISCS FOR USE IN BATHING AND WASHING.
Claims use since July 10, 1937.

Ser. No. 452,068. DENVER BROOM CO., Denver, Colo. Filed Apr. 1, 1942.

V

FOR BROOMS.
Claims use since Jan. 22, 1942.

Ser. No. 452,868. PARFUMS SCHIAPARELLI, INC., New York, N. Y. Filed May 7, 1942.

Salut

FOR COMPRESSED COTTON DISCS FOR USE IN BATHING AND WASHING.
Claims use since Sept. 10, 1937.

Ser. No. 452,886. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio. Filed May 8, 1942.

Firestone

FOR POLISHING CLOTHS.
Claims use since Jan. 1, 1935.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 451,726. RALPH A. RIESGO, New York, N. Y. Filed Mar. 18, 1942.

Penco

FOR FITTINGS, PIPING, AND OTHER CONDUIT CONNECTIONS AND PARTS ESPECIALLY ADAPTED FOR BEVERAGE DISPENSING APPARATUS AND EQUIPMENT.
Claims use since Mar. 10, 1942.

Ser. No. 452,437. STEWART-WARNER CORPORATION, Chicago, Ill. Filed Apr. 18, 1942.

Sub Temp

FOR REFRIGERATORS.
Claims use since Mar. 10, 1942.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 447,993. BOLENS PRODUCTS COMPANY, Port Washington, Wis. Filed Oct. 22, 1941.

SYNCRO-TILT

Applicant disclaims the word "Tilt."
FOR CHAIR IRONS USED IN THE MANUFACTURE OF CHAIRS.
Claims use since Mar. 18, 1940.

Ser. No. 449,454. GERSTEN BROTHERS, New York, N. Y. Filed Dec. 13, 1941.

Utilo

FOR WARDROBES, CLOSETS, AND CHESTS MADE OF FIBRE BOARD WITH AND WITHOUT WOOD TRIM.
Claims use since December, 1937.

Ser. No. 452,060. TOY CORPORATION OF AMERICA, INC., New York, N. Y. Filed Mar. 31, 1942.

JULIANNE

J A

FOR FURNITURE ADAPTED FOR CHILDREN—NAMELY, CRIBS, BEDS, CHIFFOROBES, CHIFFONIERS, CHESTS, ROCKERS, TABLES, AND CHAIRS.
Claims use since Jan. 22, 1942.

Ser. No. 452,844. UNITED STATES RUBBER COMPANY, New York, N. Y. Filed May 6, 1942.

KOYALON

FOR FOAM RUBBER KNEELING PADS FOR CHURCH PEWS.
Claims use since Aug. 8, 1941.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 450,169. ROUND OAK COMPANY, Dowagiac, Mich. Filed Jan. 12, 1942.



No claim is made to the words "Stoves, Ranges, and Furnaces" apart from the mark.
FOR SOLID AND FLUID STOVES, RANGES AND FURNACES WITH AND WITHOUT SERVICE WATER HEATERS.
Claims use since Jan. 5, 1915.

Ser. No. 451,107. THE HAPPY COMPANY, Tulsa, Okla. Filed Feb. 20, 1942.

HAPPY AIRFIN

The word "Airfin" is disclaimed apart from the mark.
FOR RADIATORS AND ENGINE JACKET WATER COOLERS OF INTERNAL COMBUSTION ENGINES USED IN THE PETROLEUM INDUSTRY.
Claims use since Jan. 1, 1942.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 443,057. GEORGE H. SELIGSON, doing business as Record of the Month Club for the Music Collector, New York, N. Y., assignor to Record of the Month Club for the Music Collector, Inc., of New York, N. Y., a corporation of New York. Filed Apr. 28, 1941.



Applicant disclaims the words "Record of the Month Club for the Music Collector" and the representation of the goods.
FOR PHONOGRAPH RECORDS.
Claims use since Apr. 1, 1941.

Ser. No. 452,479. WALTER MAJESKI, Brooklyn, N. Y. Filed Apr. 21, 1942.

W. M.

FOR CLARINETS AND SAXOPHONES.
Claims use since Mar. 7, 1942.

CLASS 37

PAPER AND STATIONERY

Ser. No. 444,189. EUGENE C. LONSWAY, Fostoria, Ohio. Filed June 4, 1941.

MONO PRINTER UNION

No claim is made to the words "Printer Union" apart from the mark.
FOR BLANK BILLHEADS, BLANK BOOKS, BLANK LEGAL FORMS, BLANK BUSINESS FORMS, INDEX PAPER, LOOSELEAF LEDGER SHEETS, AND SECOND SHEETS.
Claims use since June 1, 1941.

Ser. No. 451,843. KNIGHT BROTHERS PAPER COMPANY, Jacksonville, Fla. Filed Mar. 23, 1942.

The Crusader

FOR SCHOOL SUPPLIES—NAMELY, SCHOOL FILLERS, DRAWING FILLERS, P. B. FILLERS, COMPOSITION BOOKS, INK TABLETS, PENCIL TABLETS, TYPEWRITER PAPER, SECOND SHEETS, STENOGRAPHER NOTEBOOKS, CONSTRUCTION AND POSTER PAPER, GRAPH FILLERS, SPELLING TABLETS, RULED SCHOOL PAPER, THEME TABLETS, ENVELOPES AND INDEX CARDS.
Claims use since August, 1934.

Ser. No. 452,519. JOHN P. BIEHN, Gregory, S. Dak. Filed Apr. 23, 1942.

IIP

FOR ENVELOPES.
Claims use since Nov. 1, 1941.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 452,600. THE BRAMSON PUBLISHING COMPANY, Detroit, Mich. Filed Apr. 27, 1942.

Handy Andy Says

FOR ARTICLE APPEARING MONTHLY IN A TRADE MAGAZINE.
Claims use since Apr. 1, 1939.

Ser. No. 452,717. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed May 1, 1942.

KOTAVACHROME

FOR PHOTOGRAPHIC PRINTS.
Claims use since Aug. 1, 1941.

CLASS 39

CLOTHING

Ser. No. 443,009. KEWPIE LINGERIE, INC., New York, N. Y. Filed Apr. 26, 1941.

Magic-Bak

The word "Bak" is disclaimed apart from the mark.
FOR LADIES' UNDERWEAR—NAMELY, SLIPS.
Claims use since Sept. 27, 1940.

Ser. No. 447,682. CAMERON IMPORTING CORP., New York, N. Y. Filed Oct. 11, 1941.

Scots-lore

FOR WHOLLY OR PARTLY KNITTED GARMENTS AND WEARING APPAREL—NAMELY, SWEATERS, SWEATER COATS, PULL-OVERS, JACKETS, SKIRTS, HOSIERY, OUTER AND UNDER SHIRTS, AND NECKTIES AND SCARVES FOR THE USE OF MEN, WOMEN, BOYS, AND GIRLS.
Claims use since Sept. 12, 1941.

Ser. No. 448,031. ANTONIO CABANTOUS, Buenos Aires, Argentina. Filed Oct. 23, 1941.

¡¡GUANTE!!

FOR LEATHER SHOES.
Claims use since May 14, 1941.

Ser. No. 450,283. OLDIN-DENNIS, INC., New York, N. Y. Filed Jan. 17, 1942.

Klimate King

FOR CLOTHING FOR MEN AND WOMEN AS FOLLOWS: SPORT JACKETS, PARKAS, REVERSIBLE PARKAS, SPORT COATS, TROUSERS, PANTS, BREECHES, LONG AND SHORT COATS, REVERSIBLE COATS AND JACKETS, REMOVABLE LINING COATS AND JACKETS; ALSO CLOTHING FOR MEN AS FOLLOWS: RAINCOATS, WIND BREAK JACKETS, SPORT VESTS, AVIATOR'S SUITS, HATS, CAPS AND SHORTS.
Claims use since December 1940 on raincoats and sport jackets; since January 1941 on parkas, reversible parkas, wind break jackets, sport vests, sport coats, trousers, pants and breeches; since February 1941 on aviator's suits, hats, caps, shorts, long and short coats, reversible coats and jackets, removable lining coats and jackets.

Ser. No. 450,296. WICKBURY LTD., New York, N. Y. Filed Jan. 17, 1942.

SUN-COAST

FOR MEN'S AND BOYS' SHIRTS, SWEATERS, BATHING SHORTS, NECKTIES, JACKETS, SPORT COATS, TROUSERS, LEATHER SHOES, BELTS FOR SUPPORTING GARMENTS, AND HATS; AND LADIES' AND MISSES' SPORT COATS, JACKETS, AND SLACK SUITS.
Claims use since Jan. 8, 1942.

Ser. No. 451,369. STEINER-GEISS, INCORPORATED, Freehold, N. J. Filed Mar. 3, 1942.

PAJAMASTER

FOR PAJAMAS.
Claims use since Dec. 7, 1940.

Ser. No. 451,575. THE L. V. MARKS & SONS COMPANY, Cincinnati, Ohio. Filed Mar. 12, 1942.

AERO-gaited

FOR WOMEN'S SHOES OF LEATHER, FABRIC, AND COMBINATIONS OF THESE MATERIALS.
Claims use since Feb. 19, 1942.

Ser. No. 451,824. MUSEBECK SHOE COMPANY, Danville, Ill. Filed Mar. 21, 1942.

HEALTH SPOT SHOES

The phrase "Health Shoes" is disclaimed apart from the mark.
FOR BOOTS AND SHOES MADE OF LEATHER, FABRIC, OR COMBINATIONS THEREOF.
Claims use since Feb. 27, 1942.

Ser. No. 451,919. MARIE EILEEN SMITH, New York, N. Y. Filed Mar. 26, 1942.

Marie-Eileen Original

No claim is made to the word "Original" apart from the mark.
FOR WOMEN'S DRESSES.
Claims use since Feb. 1, 1939.

Ser. No. 452,062. YOUNG'S MERCHANDISING CORPORATION, New York, N. Y. Filed Mar. 31, 1942.

"THE Young Touch"

FOR MEN'S HATS.
Claims use since January, 1940.

Ser. No. 452,130. LIDO SPORTSWEAR, INC., New York, N. Y. Filed Apr. 3, 1942.

Junior Partners

The word "Junior" is disclaimed apart from the mark.
FOR GIRLS', JUNIORS', AND MISSES' COATS, SUITS, SKIRTS, DRESSES, BLOUSES, JACKETS, COAT AND SUIT ENSEMBLES, AND DRESS AND JACKET ENSEMBLES.
Claims use since Apr. 15, 1941.

Ser. No. 452,206. TRUVAL MANUFACTURERS, INC., New York, N. Y. Filed Apr. 7, 1942.

Tru Val

FOR MEN'S AND YOUNG MEN'S OUTER SHIRTS AND NECKTIES SOLD IN ENSEMBLE SETS AND SEPARATELY.
Claims use since Oct. 19, 1912, on shirts, and since Nov. 7, 1941, on other goods.

Ser. No. 452,228. ROTHMOOR CORPORATION, Chicago, Ill. Filed Apr. 8, 1942.

ROTHMOOR CORPORATION 100% VIRGIN WOOL

The words "Corporation" and "100% Virgin Wool" as well as the representation of the label are disclaimed apart from the mark.
FOR LADIES' COATS AND SUITS MADE OF ALL WOOL FABRIC.
Claims use since June 1, 1941.

Ser. No. 452,277. SAKS & COMPANY, New York, N. Y. Filed Apr. 10, 1942.

Lilts

FOR WOMEN'S SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS THEREOF.
Claims use since Mar. 25, 1942.

Ser. No. 452,349. JOSEPH GUTTMAN & BROS., New York, N. Y. Filed Apr. 15, 1942.

American Sportster

The word "American" is disclaimed apart from the mark.
FOR LADIES' AND MISSES' KNITTED DRESSES, BLOUSES, SKIRTS, JACKETS, AND SWEATERS.
Claims use since Feb. 1, 1940.

Ser. No. 452,362. NEW YORK GIRL COAT CO., INC., New York, N. Y. Filed Apr. 15, 1942.

Ski-Legs

FOR COATS FOR WOMEN, MISSES, AND CHILDREN.
Claims use since Feb. 25, 1942.

Ser. No. 452,365. TEEN FROCKS, INC., New York, N. Y. Filed Apr. 15, 1942.

VictorAll

FOR MISSES' AND GIRLS' COMBINED BLOUSE AND SLACKS.
Claims use since Jan. 2, 1942.

Ser. No. 452,385. THE ATLAS UNDERWEAR COMPANY, Piqua, Ohio. Filed Apr. 17, 1942.

Allen A

Applicant is the owner of registration Number 389,826, dated August 19, 1941.
FOR MEN'S HOSIERY, SPORTS SHIRTS, CUT AND SEWN SHORTS, SWIM TRUNKS, AND SWEATERS.
Claims use since Mar. 26, 1942.

Ser. No. 452,386. COBBLERS, INC., Los Angeles, Calif. Filed Apr. 17, 1942.

OVERTIMERS

FOR WOMEN'S SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS OF LEATHER AND FABRIC.
Claims use since Mar. 31, 1942.

Ser. No. 452,486. SPATZ BROS., INC., New York, N. Y. Filed Apr. 21, 1942.

WESTWARD HO

FOR LADIES' RAINCOATS.
Claims use since Apr. 8, 1942.

Ser. No. 452,496. A. DAVIS & SONS, INC., New York, N. Y. Filed Apr. 22, 1942.

SKY RAIDER

FOR LADIES', MISSES', AND JUNIORS' COATS AND SUITS.
Claims use since Feb. 1, 1941.

Ser. No. 452,497. A. DAVIS & SONS, INC., New York, N. Y. Filed Apr. 22, 1942.

THISTLEDOWN

FOR LADIES', MISSES', AND JUNIORS' COATS AND SUITS.
Claims use since Feb. 1, 1941.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 447,301. CALLAWAY MILLS, Lagrange, Ga. Filed Sept. 25. 1941.

"KEX"
NATIONAL SERVICE
A CALLAWAY MILLS PRODUCT

The words "National Service" and "A Callaway Mills Product" are disclaimed apart from the mark.
FOR INDUSTRIAL WIPING TOWELS.
Claims use since Sept. 22, 1941.

Ser. No. 451,287. BREUER-SILBERBERG CORPORATION, New York, N. Y. Filed Feb. 28, 1942.

Printmaster Fabrics

The word "Fabrics" is disclaimed apart from the mark.
FOR PIECE GOODS OF COTTON, RAYON, SILK, AND WOOLEN PIECE GOODS, AND COMBINATIONS THEREOF.
Claims use since Jan. 5, 1942.

Ser. No. 452,047. INTERSTATE SHADE CLOTH COMPANY, Hoboken, N. J. Filed Mar. 31, 1942.

CLEANTEX

FOR SHADE CLOTH.
Claims use since Feb. 9, 1939.

CLASS 43

THREAD AND YARN

Ser. No. 451,783. SPINNERIN YARN CO. INC., New York, N. Y. Filed Mar. 20, 1942.

SOFTA

FOR YARN.
Claims use since July 29, 1939.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 448,383. MARY GORE, New York, N. Y. Filed Nov. 4, 1941.

Mary Gore
manikure tips

The name "Mary Gore" is a facsimile of applicant's signature. No claim is made to the words "Manikure" and "Tips" apart from the mark.
FOR STENCILS FOR SHAPING FINGER NAILS.
Claims use since May 7, 1941.

Ser. No. 452,244. DURALLIUM PRODUCTS CORP., Chicago, Ill. Filed Apr. 9, 1942.

MICROMATIC
ADAPTOCCLUSION

FOR DENTURES, PARTIAL DENTURES AND CAST RESTORATIONS.
Claims use since Aug. 12, 1941.

Ser. No. 452,685. THE BITTNER CORPORATION, New York, N. Y. Filed Apr. 30, 1942.

TROPITEX

FOR HEAT CURED, ACID PROOF, STERILIZABLE ALL RUBBER SHEETING.
Claims use since September, 1939.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 443,910. GERALD G. BALCH, doing business as Balch Flavor Co., Pittsburgh, Pa. Filed May 26, 1941.

Ripple

Under the act of February 20, 1905, as amended June 10, 1938.
FOR ICE CREAM AND FLAVORING CONCENTRATE FOR USE IN THE MANUFACTURE OF VARIEGATED TYPE OF ICE CREAM AND FOR USE IN THE MANUFACTURE OF A FLAVORING ADAPTED TO BE APPLIED ON OR TO ICE CREAM, SOLD IN BULK.
Claims use since Oct. 23, 1939.

Ser. No. 446,849. GEORGE ZANINOVICH, doing business as Zaninovich Bros., Dinuba, Calif. Filed Sept. 6, 1941.

ORANGE CIRCLE

No claim is made to the word "Orange" apart from the mark.
FOR FRESH CITRUS FRUIT.
Claims use since July 23, 1941.

Ser. No. 447,900. THE AMARINE CORPORATION, New York, N. Y. Filed Oct. 18, 1941.

AMARINE

FOR CANNED FISH.
Claims use since Oct. 1, 1940.

Ser. No. 449,834. GAINES FOOD CO. INC., Sherburne, N. Y. Filed Dec. 29, 1941.



The surname "Gaines" and the words "Dog Meal" are disclaimed apart from the mark.
FOR DOG FOOD.
Claims use since Oct. 1, 1936.

Ser. No. 451,574. LYONS-MAGNUS, INCORPORATED, San Francisco, Calif. Filed Mar. 12, 1942.

CITROLO

FOR CANDIED GRAPEFRUIT PEEL.
Claims use since July 1, 1941.

Ser. No. 452,075. LORD-MOTT COMPANY, INC., Baltimore, Md. Filed Apr. 1, 1942. Under 10-year proviso.

Lord-Mott's

FOR CANNED VEGETABLES, CANNED IRISH POTATOES, CANNED HOMINY, CANNED SPAGHETTI, CANNED PORK AND BEANS, CANNED SWEET POTATOES, THE FOREGOING GOODS BEING PACKED IN GLASS AS WELL AS IN CANS.
Claims use since 1836.

Ser. No. 452,142. THE BORDEN COMPANY, New York, N. Y. Filed Apr. 4, 1942.

Hemo

FOR VITAMIN AND MINERAL FORTIFIED PREPARATION FOR MALTED FOOD DRINKS.
Claims use since Nov. 24, 1941.

Ser. No. 452,625. SUNLITE FRUIT JUICES, LTD., Hollywood, Calif. Filed Apr. 27, 1942.

Sun-hi

FOR CANNED FRUIT JUICES.
Claims use since Apr. 9, 1942.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 447,274. SEYOPP CORPORATION, New York, N. Y. Filed Sept. 23, 1941.



FOR WHISKEY.
Claims use since Sept. 15, 1941.

Ser. No. 451,246. SCHRANCK & SHAW INCORPORATED, Milwaukee, Wis. Filed Feb. 26, 1942.

Cistercienne
MADE UNDER THE SUPERVISION OF THE CISTERCIAN ORDER OF MONKS
Liqueur

All wording except "Cistercienne" is disclaimed apart from the mark.
FOR LIQUEUR.
Claims use since Dec. 17, 1941.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JUNE 16, 1942

395,806. MEN'S SHIRTS, COLLARS, AND CUFFS. PIEDMONT SHIRT COMPANY, Greenville, S. C.
Filed November 5, 1938. Serial No. 412,422. PUBLISHED JANUARY 10, 1939. Class 39.

395,807. PREPARATION FOR THE RELIEF OF BURNS, PRICKLY HEAT, SUNBURN, SCALDS, AND ALL RAW AND IRRITATED SKIN SURFACES. MCKESSON & ROBBINS, INCORPORATED, Bridgeport and Fairfield, Conn.
Filed December 8, 1938. Serial No. 413,589. PUBLISHED MARCH 31, 1942. Class 6.

395,808. WOMEN'S COATS AND SUITS. THE PRINTZ-BIEDERMAN COMPANY, Cleveland, Ohio.
Filed July 17, 1939. Serial No. 421,670. PUBLISHED OCTOBER 17, 1939. Class 39.

395,809. OINTMENT FOR THE TREATMENT OF RHEUMATIC AND MUSCULAR TROUBLES AND SKIN AILMENTS. BETTY PLOUGH, doing business as The Seville Company, St. Cloud, Minn.
Filed September 26, 1940. Serial No. 436,401. PUBLISHED APRIL 7, 1942. Class 6.

395,810. COSMETIC AND TOILET CREAMS AND LOTIONS. ROYDEN H. TILLSON, doing business as Isabelle Beautetics Company, St. Louis, Mo.
Filed December 3, 1940. Serial No. 438,493. PUBLISHED MARCH 31, 1942. Class 6.

395,811. CANNED FRUITS, CANNED FRUIT JUICES, CANNED VEGETABLES, CANNED VEGETABLE JUICES, CANNED FISH, CANNED SHELLFISH, CANNED POULTRY, CANNED SPAGHETTI, CANNED SOUPS, OLIVES, WHEAT FLOUR, AND APPLE SAUCE. A. KRASNE, INC., New York, N. Y., now by change of name Krasdale Foods, Inc.
Filed December 4, 1940. Serial No. 438,509. PUBLISHED APRIL 7, 1942. Class 46.

395,812. MERCHANDISE BAGS AND MERCHANDISE ENVELOPES MADE OF PAPER. WOLF BROTHERS, Philadephia, Pa.
Filed December 11, 1940. Serial No. 438,747. PUBLISHED APRIL 7, 1942. Cass 2.

395,813. WOMEN'S NECKWEAR, WOMEN'S COLLARS AND CUFFS AND COLLARS AND RUFFS OR NECK RUFFLES AND SLEEVE OR CUFF RUFFLES MADE OUT OF RUFFLINGS FOR WOMEN'S WAISTS AND BLOUSES. LOEWENSTEIN BROS., INC., New York, N. Y.
Fied January 17, 1941. Serial No. 439,757. PUBLISHED APRIL 7, 1942. Class 39.

395,814. FERROUS METAL SHEET, STRIP, AND PLATE. REPUBLIC STEEL CORPORATION, Cleveland, Ohio.
Filed January 22, 1941. Serial No. 439,878. PUBLISHED MARCH 31, 1942. Class 14.

395,815. HOSIERY. CHESTER H. ROTH CO., INC., New York, N. Y.
Filed January 22, 1941. Serial No. 439,879. PUBLISHED APRIL 7, 1942. Class 39.

395,816. LADIES' HATS. LEIGHTON HATS, INC., New York, N. Y.
Filed January 28, 1941. Serial No. 440,051. PUBLISHED APRIL 7, 1942. Class 39.

395,817. COLLOIDAL GOLD AND COLLOIDAL GOLD COMPOUNDS FOR CARCINOMATOUS CONDITIONS, TUBERCULOSIS, ETC. HILLE LABORATORIES, Chicago, Ill.
Filed February 10, 1941. Serial No. 440,509. PUBLISHED MARCH 31, 1942. Class 6.

395,818. CEMENT HARDENER IN LIQUID FORM TO BE APPLIED TO CEMENT AFTER CEMENT SETS. E. P. LYNCH, INC., Providence, R. I.
Filed April 14, 1941. Serial No. 442,559. PUBLISHED JULY 15, 1941. Class 12.

395,819. NON-ALCOHOLIC BEVERAGES. LENOX, INC., Boston, Mass.
Filed March 15, 1941. Serial No. 441,579. PUBLISHED MARCH 31, 1942. Class 45.

395,820. MIXTURE WITH AN ACID, SUCH AS A PHOSPHORIC ACID, BASE TO BE APPLIED TO THE SURFACES OF FERROUS AND NON-FERROUS METALS TO PREPARE THE SAME FOR PAINTING. INDUSTRIAL CHEMICAL PRODUCTS COMPANY, Detroit, Mich.
Filed April 18, 1941. Serial No. 442,707. PUBLISHED AUGUST 12, 1941. Class 6.

395,821. FROZEN FRUITS. SOUTHERN FROSTED FOODS, INC., Birmingham, Ala., assignor to Birmingham Ice & Cold Storage Company.
Filed May 6, 1941. Serial No. 443,305. PUBLISHED APRIL 7, 1942. Class 46.

395,822. FLOUR—NAMELY, SOYA BEAN FLOUR. SPENCER KELLOGG AND SONS, INC., Buffalo, N. Y.
Filed May 6, 1941. Serial No. 443,306. PUBLISHED APRIL 7, 1942. Class 46.

395,823. SALVE USED AS AN EXTERNAL TREATMENT FOR CANCER, ECZEMA, AND CHRONIC SKIN INFECTIONS. JOHN H. LEONARD, doing business as Leonard Laboratories, Merkel, Tex.
Filed May 8, 1941. Serial No. 443,366. PUBLISHED MARCH 31, 1942. Class 6.

395,824. STEAM GENERATING BOILERS, BOILER FURNACE WATER WALLS UTILIZING PLAIN TUBES, ETC. COMBUSTION ENGINEERING COMPANY, INC., Wilmington, Del., and New York, N. Y.
Filed May 9, 1941. Serial No. 443,402. PUBLISHED APRIL 7, 1942. Class 34.

395,825. STEAM GENERATING BOILERS, WATER COOLED FURNACE WALLS, PULVERIZED FUEL BURNERS, AND FUEL STOKERS, AND PARTS THEREOF. COMBUSTION ENGINEERING COMPANY, INC., New York, N. Y.
Filed May 9, 1941. Serial No. 443,403. PUBLISHED APRIL 7, 1942. Class 34.

395,826. FINGERNAIL WAX. STA-RITE GINNIE-LOU, INC., Shelbyville, Ill.
Filed May 26, 1941. Serial No. 443,959. PUBLISHED APRIL 7, 1942. Class 6.

395,827. PASTRY CUPS FOR SERVING ICE CREAM, CUSTARDS, AND OTHER FOODS. NATIONAL BISCUIT COMPANY, New York, N. Y.
Filed June 6, 1941. Serial No. 444,272. PUBLISHED APRIL 7, 1942. Class 46.

395,828. ANTISPASMODIC. G. D. SEARLE & CO., Chicago, Ill.
Filed June 7, 1941. Serial No. 444,315. PUBLISHED AUGUST 5, 1941. Class 6.

395,829. BATHING SUITS AND SWEATERS. GLASGO LIMITED, Philadelphia, Pa., assignor to Marcus Breier's Sons, New York, N. Y., a copartnership consisting of Benjamin Breier, Henry Breier, Aaron Breier, Albert J. Breier, Marcus Breier, and Louis Breier.
Filed June 9, 1941. Serial No. 444,337. PUBLISHED AUGUST 19, 1941. Class 39.

395,830. RAYON FABRIC IN THE PIECE. DUMARI TEXTILE CO., INC., New York, N. Y.
Filed June 28, 1941. Serial No. 444,932. PUBLISHED OCTOBER 28, 1941. Class 42.

395,831. PAJAMAS AND NIGHTGOWN FOR MEN. MANDEL AND COHEN, INC., New York, N. Y.
Filed June 28, 1941. Serial No. 444,938. PUBLISHED NOVEMBER 25, 1941. Class 39.

395,832. LADIES' AND MISSES' KNITTED SPORT SWEATERS AND TWO PIECE KNITTED DRESSES. SELECT SPORTSWEAR, INC., New York, N. Y.
Filed July 12, 1941. Serial No. 445,301. PUBLISHED APRIL 7, 1942. Class 39.

395,833. PIECE GOODS OF WOOLEN, WORSTED, COTTON, AND RAYON. AMBASSADOR COMPANY, New York, N. Y.
Filed July 17, 1941. Serial No. 445,403. PUBLISHED MARCH 24, 1942. Class 42.

395,834. RESINOUS MATERIAL FOR USE AS A MOLDING POWDER AND THE LIKE. CATALIN CORPORATION, New York, N. Y.
Filed August 15, 1941. Serial No. 446,261. PUBLISHED APRIL 7, 1942. Class 1.

395,835. CONCENTRATES, SYRUPS, FLAVORS, COMPOUNDS, AND EXTRACTS FOR USE IN THE MANUFACTURE OF NON-ALCOHOLIC BEVERAGES SOLD AS SOFT DRINKS. NATIONAL CARBONATED BEVERAGE RESEARCH INSTITUTE, INC., Atlanta, Ga.
Filed August 29, 1941. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 446,660. PUBLISHED JANUARY 6, 1942. Class 45.

395,836. BLANKETS. THE ESMOND MILLS, INC., Esmond, R. I.
Filed September 3, 1941. Serial No. 446,753. PUBLISHED MARCH 24, 1942. Class 42.

395,837. CHEMICAL PREPARATION IN LIQUID FORM FOR REMOVING ALUMINUM CYLINDER HEADS, LOOSENING STUCK VALVE GUIDES, FROZEN KING PINS, LOOSENING NUTS AND BOLTS OR OTHER PARTS HELD FAST BY RUST OR CARBON. RADIATOR SPECIALTY COMPANY, Charlotte, N. C., Los Angeles, Calif., and Toronto, Ontario, Canada.
Filed September 8, 1941. Serial No. 446,891. PUBLISHED APRIL 7, 1942. Class 6.

395,838. EMBALMING FLUID. UNDERTAKERS SUPPLY COMPANY, Chicago, Ill.
Filed September 13, 1941. Serial No. 447,034. PUBLISHED MARCH 31, 1942. Class 6.

395,839. SPUN RAYON FABRICS. CANTOR-GREENSPAN CO., INC., New York, N. Y.
Filed September 22, 1941. Serial No. 447,225. PUBLISHED MARCH 24, 1942. Class 42.

395,840. FAN BELTS, TRANSMISSION BELTS, CONVEYOR BELTS, RADIATOR HOSE, CAR WASHING HOSE, ETC. THE B. F. GOODRICH COMPANY, New York, N. Y. and Akron, Ohio.
Filed September 24, 1941. Serial No. 447,288. PUBLISHED APRIL 7, 1942. Class 35.

395,841. GIN. OTTO BURNELEIT, Bloomfield, N. J.
Filed September 27, 1941. Serial No. 447,356. PUBLISHED MARCH 31, 1942. Class 49.

395,842. WHISKEY. OLD COLONEL DISTILLERY, Louisville, Ky.
Filed September 29, 1941. Serial No. 447,401. PUBLISHED MARCH 31, 1942. Class 49.

395,843. NUTRITIOUS FOOD IN BAR FORM CONTAINING DEXTROSE, RASPBERRIES, SUGAR, COCOA, YEAST, AND FLAVORING. ORCHARD PRODUCTS CO., Chicago, Ill.
Filed September 29, 1941. Serial No. 447,402. PUBLISHED APRIL 7, 1942. Class 46.

395,844. TOILET SETS AND DRESSER SETS COMPRISING COMBS, BRUSHES, MIRRORS, MANICURE TOOLS, CIGARETTE CASES, ETC. METALTEX, INC., New York, N. Y.
Filed October 6, 1941. Serial No. 447,585. PUBLISHED APRIL 7, 1942. Class 40.

395,845. SKINS, HIDES, AND LEATHERS. RONALD A. FORTH, INC., Boston, Mass.
Filed October 9, 1941. Serial No. 447,632. PUBLISHED APRIL 7, 1942. Class 1.

395,846. ALE. FOX HEAD WAUKESHA CORPORATION, Waukesha, Wis.
Filed October 15, 1941. Serial No. 447,804. PUBLISHED MARCH 31, 1942. Class 48.

395,847. FRESH CITRUS FRUIT. SAN FERNANDO CITRUS ASSOCIATION, San Fernando, Calif.
Filed October 20, 1941. Serial No. 447,956. PUBLISHED APRIL 7, 1942. Class 46.

395,848. LIFESAVING COATS, JACKETS, WAISTCOATS, VESTS, JUMPERS, TROUSERS, AND LININGS FOR SUCH CLOTHING FOR USE ON WATER. VITABUOY PRODUCTS LIMITED, London, England.
Filed October 20, 1941. Serial No. 447,964. PUBLISHED MARCH 31, 1942. Class 39.

395,849. METAL AWNINGS. META-FOLD AWNING COMPANY, Bluffton, Ohio.
Filed October 22, 1941. Serial No. 448,005. PUBLISHED APRIL 7, 1942. Class 50.

395,850. PAINT SOLD IN DRY, PASTE, OR READY MIXED FORM. THE WILBUR & WILLIAMS COMPANY, Boston, Mass.
Filed October 22, 1941. Serial No. 448,023. PUBLISHED APRIL 7, 1942. Class 16.

395,851. REAL LEATHER. ALFRED VAMOS, New York, N. Y., assignor to Clarence E. Nelson, New York, N. Y.
Filed October 27, 1941. Serial No. 448,175. PUBLISHED APRIL 7, 1942. Class 1.

395,852. REAL LEATHER. ALFRED VAMOS, New York, N. Y., assignor to Clarence E. Nelson, New York, N. Y.
Filed October 27, 1941. Serial No. 448,176. PUBLISHED APRIL 7, 1942. Class 1.

395,853. HAIR DRESSING, PRESSING OIL FOR USE IN HAIR DRESSING, SOLID BRILLIANTINE, LIQUID BRILLIANTINE, ETC. CHAUNCEY B. DAVIS, doing business as Chauncey B. Davis Manufacturing Co., Jackson, Miss.
Filed October 28, 1941. Serial No. 448,189. PUBLISHED MARCH 31, 1942. Class 6.

395,854. NONALCOHOLIC BEVERAGES SOLD AS SOFT DRINKS, FRUIT JUICE, SIRUP AND EXTRACTS FOR MAKING THE SAME. HOMIX PRODUCTS, INC., New York, N. Y.
Filed November 13, 1941. Serial No. 448,613. PUBLISHED APRIL 7, 1942. Class 45.

395,855. SALAD OIL AND SANDWICH SPREAD. OLD MONK OLIVE OIL CO., Chicago, Ill., now by change of name Old Monk Company, a corporation of Illinois.
Filed November 15, 1941. Serial No. 448,679. PUBLISHED MARCH 10, 1942. Class 46.

395,856. WINES. L. BAMBERGER & CO., Newark, N. J.
Filed November 22, 1941. Serial No. 448,815. PUBLISHED APRIL 7, 1942. Class 47.

395,857. CASEIN GLUE IN THE FORM OF A DRY POWDER. JACOB FUCHS, Brooklyn, N. Y.
Filed November 22, 1941. Serial No. 448,824. PUBLISHED APRIL 7, 1942. Class 5.

395,858. DOUCHE POWDER. IRVING R. GLANTZ, doing business as Femfacs Products Co., New York, N. Y.
Filed November 24, 1941. Serial No. 448,862. PUBLISHED FEBRUARY 17, 1942. Class 6.

395,859. CHENILLE FABRICS. CLIFFORD R. SMITH, doing business as The Robert Company, Atlanta, Ga.
Filed November 25, 1941. Serial No. 448,924. PUBLISHED MARCH 24, 1942. Class 42.

395,860. PROTECTIVE COATING IN THE NATURE OF A PAINT USED AS A WATER REPELLANT AND NON-CORROSIVE COATING FOR STRUCTURAL STEEL, BRIDGES, ETC. RED SPOT PAINT & VARNISH CO., INC., Evansville, Ind.
Filed November 28, 1941. Serial No. 449,020. PUBLISHED APRIL 7, 1942. Class 16.

395,861. WATCH CASES MADE OF PRECIOUS METAL. IDE JEWELRY CO., INC., New York, N. Y.
Filed December 3, 1941. Serial No. 449,136. PUBLISHED APRIL 7, 1942. Class 27.

395,862. ELASTIC GIRTHS AND BELLY BANDS FOR ANIMALS. EL TORO ELASTICS, INC., New York, N. Y.
Filed December 8, 1941. Serial No. 449,254. PUBLISHED APRIL 7, 1942. Class 3.

395,863. PHOSPHORESCENT AND FLUORESCENT LACQUERS, PAINTS, AND PAINT PIGMENTS. ALEXANDER STROBL, doing business as Stroblite Company, New York, N. Y.
Filed December 8, 1941. Serial No. 449,302. PUBLISHED APRIL 7, 1942. Class 16.

395,864. PHOSPHORESCENT AND FLUORESCENT LACQUERS, PAINTS, AND PAINT PIGMENTS. ALEXANDER STROBL, doing business as WTP, New York, N. Y.
Filed December 8, 1941. Serial No. 449,303. PUBLISHED APRIL 7, 1942. Class 16.

395,865. WOOLENS AND WORSTEDS PIECE GOODS. AMERICAN SPECTATOR, INC., New York, N. Y.
Filed December 11, 1941. Serial No. 449,365. PUBLISHED MARCH 24, 1942. Class 42.

395,866. BEER. JACOB SCHMIDT BREWING CO., St. Paul, Minn.
Filed December 13, 1941. Serial No. 449,467. PUBLISHED MARCH 31, 1942. Class 48.

395,867. FEED INGREDIENT OR SUPPLEMENT TO BE ADDED TO ANIMAL FEEDS TO AUGMENT THE VITAMIN AND MINERAL CONTENT THEREOF. KELLOGG COMPANY, Battle Creek, Mich.
Filed December 15, 1941. Serial No. 449,488. PUBLISHED APRIL 7, 1942. Class 46.

395,868. SHOE AND LEATHER FINISHES—NAMELY, POLISH, DRESSING, LACQUERS, WASH, SHANK INK, AND COLOR REPAIRER. K. J. QUINN & CO., INC., Boston, Mass.
Filed December 15, 1941. Serial No. 449,500. PUBLISHED APRIL 7, 1942. Class 4.

395,869. LIQUID MATERIAL FOR CLEANING THE HAIR AFTER SHAMPOOING. JOHN H. BRECK, INC., Springfield, Mass.
Filed December 17, 1941. Serial No. 449,540. PUBLISHED APRIL 7, 1942. Class 6.

395,870. TEXTILE FABRICS IN THE PIECE OF COTTON, RAYON, ACETATE, SILK, AND COMBINATIONS THEREOF. HOWARDS FIFTH AVE. INC., New York, N. Y.
Filed December 19, 1941. Serial No. 449,609. PUBLISHED MARCH 24, 1942. Class 42.

395,871. CROCHET HOOKS FOR HAND USE. HAMILTON C. BATES, doing business as C. J. Bates & Son, Chester, Conn., assignor to C. J. Bates & Son, Chester, Conn., a firm composed of Hamilton C. Bates, Wells C. Bates, and Hamilton C. Bates, Jr.
Filed December 26, 1941. Serial No. 449,751. PUBLISHED APRIL 7, 1942. Class 40.

395,872. CROCHET HOOKS FOR HAND USE. HAMILTON C. BATES, doing business as C. J. Bates & Son, Chester, Conn., assignor to C. J. Bates & Son, Chester, Conn., a firm composed of Hamilton C. Bates, Wells C. Bates, and Hamilton C. Bates, Jr.
Filed December 26, 1941. Serial No. 449,752. PUBLISHED APRIL 7, 1942. Class 40.

395,873. CROCHET HOOKS FOR HAND USE. HAMILTON C. BATES, doing business as C. J. Bates & Son, Chester, Conn., assignor to C. J. Bates & Son, Chester, Conn., a firm composed of Hamilton C. Bates, Wells C. Bates, and Hamilton C. Bates, Jr.
Filed December 26, 1941. Serial No. 449,753. PUBLISHED APRIL 7, 1942. Class 40.

395,874. CROCHET HOOKS FOR HAND USE. HAMILTON C. BATES, doing business as C. J. Bates & Son, Chester, Conn., assignor to C. J. Bates & Son, Chester, Conn., a firm composed of Hamilton C. Bates, Wells C. Bates, and Hamilton C. Bates, Jr.
Filed December 26, 1941. Serial No. 449,754. PUBLISHED APRIL 7, 1942. Class 40.

395,875. ALTIMETERS. TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y.
Filed December 26, 1941. Serial No. 449,789. PUBLISHED APRIL 7, 1942. Class 26.

395,876. LEATHER MADE FROM GOAT, KID, AND OTHER SKINS. BRANDT LEATHER CORPORATION, Boston, Mass.
Filed December 27, 1941. Serial No. 449,792. PUBLISHED APRIL 7, 1942. Class 1.

395,877. TWEEDS, BEING TEXTILE PIECE GOODS. JOHN CROWTHER & SONS (MILNSBRIDGE) LIMITED, Yorkshire, England.
Filed December 29, 1941. Serial No. 449,828. PUBLISHED MARCH 24, 1942. Class 42.

395,878. WHISKIES, CORDIALS, LIQUEURS, AND GINS—NAMELY, GIN, SLOE GIN, DISTILLED LONDON DRY GIN, ETC. RUDOLPH LISKA & SONS, INC., Chicago, Ill.
Filed December 30, 1941. Serial No. 449,865. PUBLISHED MARCH 31, 1942. Class 49.

395,879. TOOTH PASTE. VALENTINE LABORATORIES, INC., Chicago, Ill.
Filed January 1, 1942. Serial No. 449,946. PUBLISHED MARCH 31, 1942. Class 6.

395,880. MATCHES. THE GENERAL MATCH COMPANY, Reading, Ohio.
Filed January 5, 1942. Serial No. 449,989. PUBLISHED APRIL 7, 1942. Class 9.

395,881. WINE VINEGAR, SPICES, OLIVES, AND CANNED TOMATOES AND TOMATO PASTE. MIRAMAR TRADING CORPORATION, Brooklyn, N. Y.
Filed January 6, 1942. Serial No. 450,019. PUBLISHED APRIL 7, 1942. Class 46.

395,882. DOG AND CAT FOOD. WASHINGTON CO-OPERATIVE EGG AND POULTRY ASSOCIATION, Seattle, Wash.
Filed January 6, 1942. Serial No. 450,038. PUBLISHED APRIL 7, 1942. Class 46.

395,883. DOG AND CAT FOOD. WASHINGTON CO-OPERATIVE EGG AND POULTRY ASSOCIATION, Seattle, Wash.
Filed January 6, 1942. Serial No. 450,039. PUBLISHED APRIL 7, 1942. Class 46.

395,884. TELEGRAPH PAPER TAPE. PAPER MANUFACTURERS CO., Philadelphia, Pa.
Filed January 8, 1942. Serial No. 450,076. PUBLISHED APRIL 7, 1942. Class 37.

395,885. CASTINGS, FORGINGS, SHEETS, AND BARS OF BERYLLIUM ALUMINUM ALLOYS. COOPER-WILFORD BERYLLIUM, LTD., Philadelphia, Pa.
Filed January 9, 1942. Serial No. 450,088. PUBLISHED MARCH 31, 1942. Class 14.

395,886. STILL AND SPARKLING WINES. GEETING & FROMM, INC., Chicago, Ill.
Filed January 9, 1942. Serial No. 450,097. PUBLISHED APRIL 7, 1942. Class 47.

395,887. PIECE GOODS OF NYLON AND RAYON FABRICS. THE BARBIZON CORPORATION, New York, N. Y.
Filed January 14, 1942. Serial No. 450,190. PUBLISHED MARCH 24, 1942. Class 42.

395,888. LIQUID SOAP FOR CLEANSING WOOD, LINOLEUM, TERRAZZO, MARBLE, TILE, AND SIMILAR SURFACES. HUNTINGTON LABORATORIES, INC., Huntington, Ind.
Filed January 15, 1942. Serial No. 450,228. PUBLISHED APRIL 7, 1942. Class 4.

395,889. FRESH VEGETABLES—NAMELY, CELERY. D'ARRIGO BROTHERS COMPANY, San Jose, Calif.
Filed January 16, 1942. Serial No. 450,257. PUBLISHED APRIL 7, 1942. Class 46.

395,890. CHOCOLATE FLAVORED PEANUT BUTTER SPREAD. MAURICE H. KUHN, Los Angeles, Calif.
Filed January 16, 1942. Serial No. 450,262. PUBLISHED APRIL 7, 1942. Class 46.

395,891. BLANKETS—NAMELY, COTTON AND WOOL BLANKETS, ALL WOOL BLANKETS, KNITTED BLANKETS, AND WOVEN BLANKETS. HORNER WOOLEN MILLS COMPANY, Eaton Rapids, Mich.
Filed January 17, 1942. Serial No. 450,277. PUBLISHED MARCH 24, 1942. Class 42.

395,892. FRESH CITRUS FRUITS. STANFORD FRUIT GROWERS, INC., Lake Alfred, Fla.
Filed January 17, 1942. Serial No. 450,291. PUBLISHED APRIL 7, 1942. Class 46.

395,893. THERAPEUTIC VITAMIN PREPARATION USED AS A FOOD SUPPLEMENT FOR PETS. CEROPHYL LABORATORIES, INC., Kansas City, Mo.
Filed January 19, 1942. Serial No. 450,304. PUBLISHED MARCH 31, 1942. Class 6.

395,894. FIRST AID KITS AND BANDAGES CONTAINED AND SOLD IN DISPENSERS. HENRY LERER, doing business as Medical Aid Supply Company, New York, N. Y.
Filed January 21, 1942. Serial No. 450,364. PUBLISHED APRIL 7, 1942. Class 44.

395,895. BEER. LIEBERT AND OBERT, Philadelphia, Pa.
Filed January 21, 1942. Serial No. 450,366. PUBLISHED APRIL 7, 1942. Class 48.

395,896. ALE. LIEBERT AND OBERT, Philadelphia, Pa.
Filed January 21, 1942. Serial No. 450,367. PUBLISHED APRIL 7, 1942. Class 48.

395,897. CHEMICAL SUBSTANCE OR MIXTURE IN LIQUID FORM (BUT WHICH MAY BE IN SOLID, CRYSTAL, OR IN ANY OTHER FORM) USED IN GAS FILTERING MEDIA, ETC. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed January 22, 1942. Serial No. 450,392. PUBLISHED MARCH 31, 1942. Class 6.

395,898. CHEMICALS USED IN THE MANUFACTURE OF LUBRICANTS AND HYDRAULIC FLUIDS. RÖHM & HAAS COMPANY, Philadelphia, Pa.
Filed January 22, 1942. Serial No. 450,405. PUBLISHED APRIL 7, 1942. Class 6.

395,899. ASPHALTS COMPRISING OXIDIZED MID-CONTINENT ASPHALTS AND/OR OXIDIZED MEXICAN BLENDED ASPHALTS, ETC. THE CELOTEX CORPORATION, Chicago, Ill.
Filed January 24, 1942. Serial No. 450,443. PUBLISHED APRIL 7, 1942. Class 1.

395,900. COAL. CENTRAL FUEL CORPORATION, Chicago, Ill.
Filed January 24, 1942. Serial No. 450,444. PUBLISHED APRIL 7, 1942. Class 1.

395,901. PERMANENT WAVE PREPARATION IN POWDER FORM. CHARM-KURL COMPANY, St. Paul, Minn.
Filed January 24, 1942. Serial No. 450,445. PUBLISHED APRIL 7, 1942. Class 6.

395,902. FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, ETC. COTY, INC., New York, N. Y.
Filed January 24, 1942. Serial No. 450,447. PUBLISHED APRIL 7, 1942. Class 6.

395,903. TROUSERS FOR MEN AND BOYS. H. LISSNER COMPANY, INC., Wilmington, Del., and New York, N. Y.
Filed January 24, 1942. Serial No. 450,453. PUBLISHED APRIL 7, 1942. Class 39.

395,904. MEDICINAL PREPARATION RECOMMENDED FOR THE TREATMENT OF DISORDERS OF THE MALE SEX GLANDS. SCHERING CORPORATION, Bloomfield, N. J.
Filed January 24, 1942. Serial No. 450,461. PUBLISHED APRIL 7, 1942. Class 6.

395,905. PREPARATION USED IN THE TREATMENT OF SYPHILITIC AND RELATED TYPES OF INFECTIONS. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed January 26, 1942. Serial No. 450,490. PUBLISHED MARCH 31, 1942. Class 6.

395,906. FRESH VEGETABLES. TETSUO F. IWASAKI, doing business as Rancho Brokerage Co., Brawley, Calif.
Filed January 27, 1942. Serial No. 450,508. PUBLISHED APRIL 7, 1942. Class 46.

395,907. WINE. G. H. MUMM CHAMPAGNE AND ASSOCIATES INCORPORATED (SOCIÉTÉ VINICOLE DE CHAMPAGNE, SUCCESSEUR), New York, N. Y.
Filed January 27, 1942. Serial No. 450,511. PUBLISHED APRIL 7, 1942. Class 47.

395,908. DIGESTIVE TONICS AND MINERAL SUPPLEMENTS FOR ANIMALS AND POULTRY. NEAR'S FOOD CO., INC., Binghamton, N. Y.
Filed January 27, 1942. Serial No. 450,515. PUBLISHED APRIL 7, 1942. Class 6.

395,909. LEATHER BOOTS AND SHOES FOR MEN, WOMEN, YOUTHS, BOYS, AND CHILDREN. ENDICOTT JOHNSON CORPORATION, Endicott, N. Y.
Filed January 28, 1942. Serial No. 450,538. PUBLISHED APRIL 7, 1942. Class 39.

395,910. WASHING COMPOUND FOR LAUNDRY PURPOSES. H. KOHNSTAMM & CO., INC., New York, N. Y.
Filed January 28, 1942. Serial No. 450,543. PUBLISHED APRIL 7, 1942. Class 4.

395,911. PLASTIC COMPOUND USED PRIMARILY FOR FILLING CAVITIES IN METAL BODIES. THE A. S. BOYLE COMPANY, Jersey City, N. J.
Filed January 29, 1942. Serial No. 450,562. PUBLISHED APRIL 7, 1942. Class 50.

395,912. CHEMICAL PREPARATION FOR USE IN THE VULCANIZATION OF RUBBER. ALLIED CHEMICAL & DYE CORPORATION, New York, N. Y.
Filed January 31, 1942. Serial No. 450,610. PUBLISHED MARCH 31, 1942. Class 6.

395,913. CAPSULES AND ENTERIC COATED TABLETS INDICATED IN THE SYMPTOMATIC TREATMENT OF BRONCHIAL ASTHMA. BREWER & COMPANY, INC., Worcester, Mass.
Filed January 31, 1942. Serial No. 450,614. PUBLISHED MARCH 31, 1942. Class 6.

395,914. COAL. CENTRAL FUEL CORPORATION, Chicago, Ill.
Filed January 31, 1942. Serial No. 450,615. PUBLISHED APRIL 7, 1942. Class 1.

395,915. FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ETC. COTY, INC., New York, N. Y.
Filed January 31, 1942. Serial No. 450,620. PUBLISHED MARCH 31, 1942. Class 6.

395,916. ART NEEDLEWORK YARNS. BERNHARD ULMANN CO. INC., New York, N. Y.
Filed January 31, 1942. Serial No. 450,634. PUBLISHED MARCH 31, 1942. Class 43.

395,917. CHEMICAL COMPOSITIONS USED IN THE SIZING AND IMPROVEMENT OF CELLULOSIC PRODUCTS. NATIONAL ALUMINATE CORPORATION, Chicago, Ill.
Filed February 2, 1942. Serial No. 450,657. PUBLISHED APRIL 7, 1942. Class 6.

395,918. CHEMICAL COMPOSITIONS USED IN THE SIZING AND IMPROVEMENT OF CELLULOSIC PRODUCTS. NATIONAL ALUMINATE CORPORATION, Chicago, Ill.
Filed February 2, 1942. Serial No. 450,658. PUBLISHED APRIL 7, 1942. Class 6.

395,919. INSECTICIDE. W. H. PLUNKETT, doing business as Plunkett Chemical Company, Chicago, Ill.
Filed February 3, 1942. Serial No. 450,683. PUBLISHED APRIL 7, 1942. Class 6.

395,920. MEN'S TOPCOATS AND OVERCOATS. JACOB SIEGEL COMPANY, Philadelphia, Pa.
Filed February 3, 1942. Serial No. 450,698. PUBLISHED APRIL 7, 1942. Class 39.

395,921. DIE AND TOOL STEEL. KLOSTER STEEL CORPORATION, Chicago, Ill.
Filed February 4, 1942. Serial No. 450,739. PUBLISHED APRIL 7, 1942. Class 14.

395,922. CHEMICAL COMPOSITION TO BE USED AS AN EMULSIFYING, SPREADING, STICKING AND/OR EXTENDING AGENT IN CONNECTION WITH INSECTICIDES, FUNGICIDES, BACTERICIDES, SPRAY OILS, AND SOFTENING, CLEANING AND LUBRICATING AGENTS. RÖHM & HAAS COMPANY, Philadelphia, Pa.
Filed February 4, 1942. Serial No. 450,744. PUBLISHED MARCH 31, 1942. Class 6.

395,923. CHAIRS AND FOLDING BEDS. DANIEL FORBES EBBERT, Wheeling, W. Va.
Filed February 6, 1942. Serial No. 450,794. PUBLISHED APRIL 7, 1942. Class 32.

395,924. WOMEN'S, LADIES', MISSES', AND GIRLS' SLACKS. LORTOGS, INC., New York, N. Y.
Filed February 6, 1942. Serial No. 450,804. PUBLISHED APRIL 7, 1942. Class 39.

395,925. COFFEE MAKERS. CHEMEX CORPORATION, New York, N. Y.
Filed February 7, 1942. Serial No. 450,826. PUBLISHED APRIL 7, 1942. Class 13.

395,926. MINERAL SALTLICK STONE FOR LIVESTOCK CONTAINING SULPHATE OF FERRO OXIDE, SULPHUR, PHOSPHATES OF SODIUM, MAGNESIUM, AND POTASSIUM, CARBONATE OF LIME, IODINE, AND CALCIUM CHLORIDE. FRANK WENZ, doing business as Frank Wenz Company, Chicago, Ill.
Filed February 7, 1942. Serial No. 450,842. PUBLISHED APRIL 7, 1942. Class 6.

395,927. HYDRAULIC VALVES. FLEETWINGS, INCORPORATED, Bristol, Pa.
Filed February 9, 1942. Serial No. 450,849. PUBLISHED APRIL 7, 1942. Class 13.

395,928. HOSIERY. H. T. POINDEXTER AND SONS MERCHANDISE COMPANY, Kansas City, Mo.
Filed February 9, 1942. Serial No. 450,862. PUBLISHED APRIL 7, 1942. Class 39.

395,929. MEN'S TOPCOATS, OVERCOATS, AND SUITS. S. WEITZ & CO., INC., Cleveland, Ohio.
Filed February 9, 1942. Serial No. 450,871. PUBLISHED APRIL 7, 1942. Class 39.

395,930. CANNED MUSHROOMS. GROCERY PRODUCTS MANUFACTURING CORPORATION, Union City, N. J., and West Chester, Pa.
Filed February 10, 1942. Serial No. 450,878. PUBLISHED APRIL 7, 1942. Class 46.

395,931. LIPSTICKS. HELENA RUBINSTEIN, INC., New York, N. Y.
Filed February 12, 1942. Serial No. 450,921. PUBLISHED APRIL 7, 1942. Class 6.

395,932. FRESH VEGETABLES. FRED W. RUSH, doing business as Fred W. Rush Co., Los Angeles, Calif.
Filed February 13, 1942. Serial No. 450,942. PUBLISHED APRIL 7, 1942. Class 46.

395,933. FRESH VEGETABLES. FRED W. RUSH, doing business as Fred W. Rush Co., Los Angeles, Calif.
Filed February 13, 1942. Serial No. 450,943. PUBLISHED APRIL 7, 1942. Class 46.

395,934. NECKTIES. CHENEY BROTHERS, Manchester, Conn., and New York, N. Y.
Filed February 14, 1942. Serial No. 450,953. PUBLISHED APRIL 7, 1942. Class 39.

395,935. TIRES COMPOSED WHOLLY OR PRINCIPALLY OF RUBBER. THE KELLY-SPRINGFIELD TIRE COMPANY, Cumberland, Md.
Filed February 14, 1942. Serial No. 450,967. PUBLISHED APRIL 7, 1942. Class 35.

395,936. FRESH CITRUS FRUIT. CRAFTON MUTUAL ORCHARDS, Mentone, Calif.
Filed February 16, 1942. Serial No. 451,005. PUBLISHED APRIL 7, 1942. Class 46.

395,937. LAUNDRY STARCH. THE GREAT ATLANTIC & PACIFIC TEA COMPANY, New York, N. Y.
Filed February 17, 1942. Serial No. 451,036. PUBLISHED APRIL 7, 1942. Class 6.

395,938. THERMALLY ACTIVATED BAUXITE FOR ADSORPTIVE DECOLORIZATION. SUCRO-BLANC, INC., New York, N. Y.
Filed February 17, 1942. Serial No. 451,041. PUBLISHED APRIL 7, 1942. Class 6.

395,939. PERFUMES. SUZANNE TARDY, doing business as French Art Silk Creations Co., New York, N. Y.
Filed February 18, 1942. Serial No. 451,061. PUBLISHED APRIL 7, 1942. Class 6.

395,940. CANNED FRUITS AND CANNED VEGETABLES. ALTON CANNING CO., Alton, N. Y.
Filed February 19, 1942. Serial No. 451,063. PUBLISHED APRIL 7, 1942. Class 46.

395,941. HAIR CREAMS—NAMELY, RECONDITIONING CREAM FOR HAIR. GILDA AUDREY PRODUCTS, INC., New York, N. Y.
Filed February 19, 1942. Serial No. 451,079. PUBLISHED APRIL 7, 1942. Class 6.

395,942. EYE LOTION. JOHN T. ENSMINGER, doing business as The Scintillation Co., Chicago, Ill.
Filed February 20, 1942. Serial No. 451,104. PUBLISHED APRIL 7, 1942. Class 6.

395,943. BRANDY. JOHN MCCLURE ESTATE, INC., doing business as The Burbank Winery, Los Angeles, Calif.
Filed February 20, 1942. Serial No. 451,112. PUBLISHED APRIL 7, 1942. Class 49.

395,944. ASTRINGENT HYGIENIC POWDER USED FOR DOUCHE SOLUTION. NADIN, INC., Los Angeles, Calif.
Filed February 20, 1942. Serial No. 451,113. PUBLISHED APRIL 7, 1942. Class 6.

395,945. BILLFOLDS. AMITY LEATHER PRODUCTS CO., West Bend, Wis.
Filed February 23, 1942. Serial No. 451,158. PUBLISHED APRIL 7, 1942. Class 3.

395,946. DRY EXTINGUISHING COMPOUND FOR MAGNESIUM, POTASSIUM, SODIUM, ALUMINUM, ZINC, IRON, AND OTHER METAL FIRES, INCENDIARIES, AND BURNING INFLAMMABLE MATERIALS. DUGAS ENGINEERING CORPORATION, Marinette, Wis.
Filed February 23, 1942. Serial No. 451,165. PUBLISHED APRIL 7, 1942. Class 6.

395,947. PILE POMADE. HILMA O. SAUER, Parma, Ohio.
Filed February 24, 1942. Serial No. 451,191. PUBLISHED APRIL 7, 1942. Class 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

395,948. (CLASS 32. FURNITURE AND UPHOLSTERY.) TROPICAL CHAIR CO., INC., New York, N. Y. Filed Apr. 20, 1940. Serial No. 431,027.

TROPICAL CHAIR CO. INC. SLIDE-FOLD

FOR BEACH, GARDEN, AND LAWN CHAIRS, AND FOOTRESTS THEREFOR.
Claims use since Sept. 5, 1939.

395,949. (CLASS 39. CLOTHING.) BERNIE CRYSTAL, INC., New York, N. Y., assignor to Crystal Juniors, Inc., New York, N. Y., a corporation of New York. Filed Oct. 28, 1940. Serial No. 437,334.

Gene Rogers
JUNIOR CLASSICS

FOR DRESSES AND SPORTSWEAR—NAMELY, SWEATERS, SPORT JACKETS AND SPORT SUITS FOR WOMEN, MISSES, AND GIRLS.
Claims use since Oct. 21, 1940.

395,950. (CLASS 39. CLOTHING.) DUTCHESS UNDERWEAR CORPORATION, New York, N. Y. Filed Apr. 11, 1941. Serial No. 442,487.

INDIVIDUALLY YOURS

FOR LADIES' UNDERWEAR, PAJAMAS, NIGHTGOWNS, AND DRESSES.
Claims use since Dec. 15, 1940.

395,951. (CLASS 39. CLOTHING.) LEROY JOHNSON, doing business as L. R. Johnson Company, New York, N. Y. Filed Apr. 18, 1941. Serial No. 442,710.

"ROYAN"

FOR INFANTS' AND CHILDREN'S UNDERWEAR AND SLEEPING GARMENTS.
Claims use since Apr. 4, 1941.

395,952. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) DARLING VALVE & MANUFACTURING COMPANY, Williamsport, Pa. Filed May 14, 1941. Serial No. 443,560.

QUIKFIX

FOR HYDRANTS.
Claims use since Apr. 29, 1941.

395,953. (CLASS 39. CLOTHING.) ASHER SHOE CO., INC., New York, N. Y. Filed May 24, 1941. Serial No. 443,869.

GUM-FLEX *Goodyear* ASHER SHOE CO., INC.
MADE IN U.S.A.

FOR OVERSHOES, RUBBERS, AND ARCTICS.
Claims use since Apr. 7, 1941.

395,954. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) NATIONAL SILVER COMPANY, New York, N. Y. Filed May 31, 1941. Serial No. 444,089.

TRAFALGAR

FOR STERLING SILVER AND SILVER PLATED FLATWARE, HOLLOWWARE, AND TABLEWARE.
Claims use since Apr. 19, 1941.

395,955. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) NATIONAL SILVER COMPANY, New York, N. Y. Filed June 14, 1941. Serial No. 444,541.

SURREY

FOR STERLING SILVER AND SILVER PLATED FLATWARE, HOLLOWWARE, AND TABLEWARE.
Claims use since May 3, 1941.

395,956. (CLASS 39. CLOTHING.) RO-NAT SPORTWEAR, INC., New York, N. Y. Filed June 14, 1941. Serial No. 444,546.

Zephyr-Maid PRODUCT OF RO-NAT

FOR SWEATERS AND SWEATER ENSEMBLES, CONSISTING OF A SWEATER AND COAT.
Claims use since Apr. 15, 1941.

395,957. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) DURHAM PRODUCTS COMPANY, Glendale, Calif. Filed Aug. 7, 1941. Serial No. 446,046.

Pine Scent

DURHAM PRODUCTS COMPANY

FOR A CLEANSING, POLISHING AND SCOURING POWDER.
Claims use since Jan. 3, 1941.

395,958. (CLASS 39. CLOTHING.) KRAUSS-FELS-METZGER COMPANY, Brooklyn, N. Y. Filed Nov. 3, 1941. Serial No. 448,366.

GRIP-TOP

FOR UNDERWEAR FOR MEN, WOMEN, AND CHILDREN.
Claims use since Oct. 16, 1940.

395,959. (CLASS 39. CLOTHING.) DESMOND'S, Los Angeles, Calif. Filed Nov. 10, 1941. Serial No. 448,503.

DESMOND'S *Californiana*

FOR MEN'S AND BOYS' SUITS, SPORT COATS, SLACKS, DRESS SHIRTS, NECKWEAR—NAMELY, MUFFLERS AND NECKTIES; SPORT SHIRTS, HATS, AND STREET AND SPORT SHOES MADE OF LEATHER, RUBBER, AND FABRIC, AND COMBINATIONS OF THE SAME, AND WOMEN'S AND MISSES' COATS, SUITS, JACKETS, DRESSES, HATS, PLAYCLOTHES—NAMELY, SHORTS, SLACKS, HALTERS, CULOTTES, PLAYSUITS, WITH OR WITHOUT SKIRTS; AND OVERALLS, AND SPORT SHOES MADE OF LEATHER, RUBBER, AND FABRIC, AND COMBINATIONS OF THE SAME.
Claims use since Feb. 19, 1941.

395,960. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) ANGEL P. JULIÁ, doing business as Cia Licorera Julia, Barrio Obrero, Santurce, P. R. Filed Nov. 26, 1941. Serial No. 448,943.

Ron Alcaraz

FOR RUM.
Claims use since February, 1938.

395,961. (CLASS 39. CLOTHING.) CLEO COSTUME CO., INC., New York, N. Y. Filed Dec. 5, 1941. Serial No. 449,202.

The American Tailleur

FOR SPORTSWEAR—NAMELY, LADIES' AND MISSES' DRESSES.
Claims use since January, 1941.

395,962. (CLASS 39. CLOTHING.) SAMUEL J. GOLDFARB, New York, N. Y. Filed Jan. 7, 1942. Serial No. 450,049.

House'n Garden

FOR WOMEN'S AND CHILDERN'S DRESSES, APRONS, SLIPS, PANTIES, BRASSIÈRES, PAJAMAS, NIGHTGOWNS; BOYS' AND MEN'S PAJAMAS, UNDER AND OUTER SHIRTS, NECKTIES, MUFFLERS, AND HOSIERY.
Claims use since May 1, 1941.

395,963. (CLASS 14. METALS AND METAL CASTINGS, AND FORGINGS.) METALLIZING ENGINEERING COMPANY, INC., Long Island City, N. Y. Filed Jan. 13, 1942. Serial No. 450,183.

SPRASTEEL

FOR CARBON STEEL WIRES USED FOR METAL COATINGS.
Claims use since Jan. 12, 1938.

395,964. (CLASS 14. METALS AND METAL CASTINGS, AND FORGINGS.) METALLIZING ENGINEERING COMPANY, INC., Long Island City, N. Y. Filed Jan. 13, 1942. Serial No. 450,184.

SPRABRONZE

FOR COPPER ALLOY WIRES USED FOR METAL COATINGS.
Claims use since July 20, 1938.

395,965. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STANFORD FRUIT GROWERS, INC., Lake Alfred, Fla. Filed Jan. 17, 1942. Serial No. 450,293.

WORTHY

FOR FRESH CITRUS FRUITS.
Claims use since Sept. 1, 1939.

395,966. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER CORPORATION, Holyoke, Mass. Filed Jan. 28, 1942. Serial No. 450,531.

AMERICAN WRITING PAPER CORPORATION

FOR WRITING AND PRINTING PAPER, PAPERBOARD, AND TECHNICAL AND ENGINEERING PAPER.
Claims use since Apr. 11, 1940.

395,967. (CLASS 39. CLOTHING.) UNITED MILLS, INC., Mount Gilead, N. C. Filed Feb. 10, 1942. Serial No. 450,888.

NO-HIKE

WON'T RIDE UP

FOR LADIES' UNDERWEAR, SLIPS, BED JACKETS, AND NIGHTGOWNS.
Claims use since July 31, 1940.

395,968. (CLASS 39. CLOTHING.) HOLLYWOOD COAT CO., New York, N. Y. Filed Feb. 14, 1942. Serial No. 450,965.

"HOLLYWOOD-SHAKER"

FOR LADIES' COATS.
Claims use since Apr. 15, 1941.

395,969. (CLASS 39. CLOTHING.) CHICAGO MAIL ORDER COMPANY, Chicago, Ill. Filed Feb. 23, 1942. Serial No. 451,160.

Leisure Lees

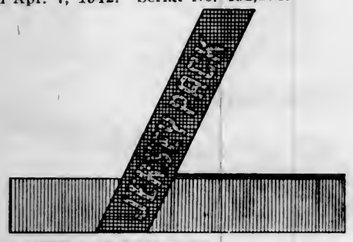
FOR LADIES' AND GIRLS' NIGHTGOWNS, PAJAMAS, HOUSECOATS, AND ROBES.
Claims use since Jan. 17, 1941.

395,970. (CLASS 39. CLOTHING.) FLORENCE Z. WALSH, Hyde Park, N. Y. Filed Mar. 6, 1942. Serial No. 451,457.

Florence Walsh

FOR SPORTSWEAR---NAMELY, BLOUSES, DRESSES, SWEATERS, PLAYSUITS, SKIRTS, ABBREVIATED SHIRTS, AND VESTEES FOR WOMEN, MISSES, AND GIRLS.
Claims use since May 1, 1940.

395,971. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLEMENT PAPPAS, Egg Harbor City, N. J. Filed Apr. 7, 1942. Serial No. 452,201.



FOR CANNED VEGETABLES.
Claims use since August, 1939.

395,972. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) MORRIS WHITE FASHIONS, INC., New York, N. Y. Filed Apr. 18, 1942. Serial No. 452,438.

WEAR-RITE

FOR LADIES', MISSES', AND CHILDREN'S HANDBAGS, OF LEATHER, FABRIC, AND COMBINATIONS THEREOF.
Claims use since Feb. 1, 1941.

TRADE-MARK REGISTRATIONS RENEWED

21,086. **"F. B." ON AN ESCUTCHEON.** BUTTONS AND BEADS. Registered May 10, 1892. F. BAPTEROSSES & CIE., Paris, France, a "société à responsabilité limitee" of France. Re-renewed May 10, 1942.

21,464. **ELGIN NATIONAL WATCH CO.** WATCHES. Registered July 19, 1892. ELGIN NATIONAL WATCH COMPANY, Chicago, Ill. Re-renewed July 19, 1942, to Elgin National Watch Company, Elgin, Ill., a corporation of Illinois.

21,647. **VAPO-CRESOLENE.** MEDICAL COMPOUNDS FOR THE CURE OF LUNG AND THROAT DISEASES. Registered August 16, 1892. THE VAPO-CRESOLENE COMPANY, Stanley, N. J., and New York, N. Y. Re-renewed August 16, 1942, to The Vapo-Cresolene Company, New York, N. Y., a corporation of New Jersey.

125,349. **LURE.** PERFUMERY IN LIQUID FORM AND PERFUMERY IN POWDER FORM. Registered May 13, 1919. LUNDBORG COMPANY. Renewed May 13, 1939, to Lundborg Perfumer, Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

152,956. **PROPP.** CHRISTMAS-TREE OUTFITS CONSISTING OF ELECTRICALLY-LIGHTED ORNAMENTS AND ELECTRICAL LIGHTING SETS FOR DECORATIVE PURPOSES. Registered March 7, 1922. THE M. PROPP CO. Renewed March 7, 1942, to Noma Electric Corporation, New York, N. Y., a corporation of New York, successor.

152,970. **ROBB-ROSS.** FOOD-FLAVORING EXTRACTS, PEANUT BUTTER, VINEGAR, MUSTARD, TABLE SIRUP, JELLY POWDER, PANCAKE FLOUR, SUGAR. Registered March 7, 1922. ROBB-ROSS CO. Renewed March 7, 1942, to Tolerton & Warfield Company, Sioux City, Iowa, a corporation of Iowa, assignee.

154,271. **DUBAR.** LITHOGRAPHIC SOLUTION. Registered April 11, 1922. DUBAR COMPANY. Renewed April 11, 1942, to Dubar Company, Baltimore, Md., a firm, successor.

154,900. **FILT-O-CEL.** A MATERIAL FOR PRECIPITATING OR SEPARATING IMPURITIES OR OTHER MATTER FROM FLUIDS. Registered May 16, 1922. CELITE PRODUCTS COMPANY, Los Angeles, Calif., and New York, N. Y. Renewed May 16, 1942, to Johns-Manville Corporation, New York, N. Y., a corporation of New York, assignee by mesne assignments.

155,113. **WARNER GEAR CO.** TRANSMISSIONS, DIFFERENTIALS, CLUTCHES, CONTROL LEVERS AND GEARS FOR AUTOMOTIVE VEHICLES. Registered May 16, 1922. WARNER GEAR COMPANY, Muncie, Ind. Renewed May 16, 1942, to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois, assignee.

155,211. **IDEAL.** IRONING BOARDS. Registered May 23, 1922. WM. CAMERON & CO. INC., Waco, Tex., a corporation of Texas. Renewed May 23, 1942.

155,225. **ECONOMY.** WATCHES AND WATCH MOVEMENTS. Registered May 23, 1922. ELGIN NATIONAL WATCH COMPANY, Chicago, Ill. Renewed May 23, 1942, to Elgin National Watch Company, Elgin, Ill., a corporation of Illinois.

155,288. **M S & S CO.** PLAYER PIANOS, PIANO PLAYERS, PIANOS, AND ORGANS. Registered May 23, 1922. M. STEINERT & SONS CO. Renewed May 23, 1942, to M. Steinert & Sons Company, Inc., Boston, Mass., a corporation of Massachusetts, assignee by mesne assignments.

155,682. **THE PREMIER HANDY.** ELECTRIC VACUUM CLEANERS AND PARTS THEREOF. Registered June 6, 1922. ELECTRIC VACUUM CLEANER COMPANY, INC., Cleveland, Ohio, a corporation of New York. Renewed June 6, 1942.

155,951. **ALFRED DUNHILL.** TOBACCO, MANUFACTURED OR UNMANUFACTURED; CIGARS, AND CIGARETTES. Registered June 13, 1922. ALFRED DUNHILL, assignor to Alfred Dunhill of London, Inc. Renewed June 13, 1942, to Alfred Dunhill Limited, London, England, a corporation of Great Britain, assignee by mesne assignments.

155,979. **REPRESENTATION OF AN ARROWHEAD.** CERTAIN NAMED CONSTRUCTION MATERIALS. Registered June 13, 1922. THE HEPPES-NELSON ROOFING COMPANY, Chicago, Ill., assignor to The Richardson Company. Renewed June 13, 1942, to The Flintkote Company, New York, N. Y., a corporation of Massachusetts, assignee by mesne assignments.

156,198. **IDEAL.** SCREEN WIRE, DOOR STOPS, TRANSOM LIFTS, KNOBS, DRAWER PULLS AND KNOBS, SASH LIFTS, AND ESCUTCHEONS. Registered June 20, 1922. WM. CAMERON & CO. INC., Waco, Tex., a corporation of Texas. Renewed June 20, 1942.

156,681. **YE COPPER KETTLE.** CANDY. Registered July 11, 1922. CORA ISABELLE HARRADEN, Schenectady, N. Y. Renewed July 11, 1942.

156,697. **UNIVERSAL.** LAUNDRY WASHING MACHINES AND ELECTRICALLY-DRIVEN LAUNDRY WASHING MACHINES FOR LAUNDRY AND HOUSEHOLD USE. Registered July 11, 1922. LANDERS, FRARY & CLARK, New Britain, Conn., a corporation of Connecticut. Renewed July 11, 1942.

157,078. **CAVALIER.** BOOTS, SHOES, LEGGINGS, SPATS, RUBBERS, GARTERS, AND OVERSHOES, EACH OF SAID ARTICLES OF GOODS BEING EITHER OF LEATHER, RUBBER, FABRIC, OR OF COMBINATIONS OF THE SAID MATERIALS. Registered July 25, 1922. HYMAN GORDON, New York, N. Y. Renewed July 25, 1942.

157,384. **DENTA-MINT.** TOOTH PASTE. Registered August 1, 1922. SEARS, ROEBUCK AND CO., Chicago, Ill., a corporation of New York. Renewed August 1, 1942.

158,028. **SUNBURST.** DRAPERIES AND UPHOLSTERIES—NAMELY, PANEL CURTAINS, SIDE CURTAINS, WINDOW CURTAINS, VALANCES, TAPESTRIES, AND TEXTILE FURNITURE COVERINGS. Registered August 22, 1922. LESHER, WHITMAN & CO., INC., New York, N. Y. Renewed August 22, 1942, to Goodall Worsted Company, Sanford, Maine, a corporation of Maine, successor.

158,211. **DIGIGLUSIN.** MEDICINAL PREPARATION IN TABLET FORM FOR USE AS A HEART TONIC OR STIMULANT. Registered August 29, 1922. THE ELI LILLY & COMPANY. Renewed August 29, 1942, to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana, by change of name.

158,295. **MICRO.** CERTAIN NAMED MUSICAL INSTRUMENTS AND PARTS THEREOF. Registered August 29, 1922. JACOB SCHWARTZ. Renewed August 29, 1942, to Micro Musical Products Corp., New York, N. Y., a corporation of New York, successor.

158,448. **BLUE PETER.** CANNED SARDINES. Registered September 5, 1922. THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J. Renewed September 5, 1942, to The Great Atlantic & Pacific Tea Company, New York, N. Y., a corporation of New Jersey.

158,570. **ZINLAC.** VARNISH. Registered September 5, 1922. WM. ZINSSER & CO. INC., New York, N. Y., a corporation of New York. Renewed September 5, 1942.

158,571. **ZINVAR.** VARNISH. Registered September 5, 1922. WM. ZINSSER & CO. INC., New York, N. Y., a corporation of New York. Renewed September 5, 1942.

158,741. **"RED LION" AND DRAWING.** LUBRICATING AND ILLUMINATING OILS AND GREASES AND GASOLINE. Registered September 12, 1922. ANNA V. MCCONAGHY, Washington, D. C. Renewed September 12, 1942, to Gilmore Oil Company, Los Angeles, Calif., a corporation of California, assignee.

158,971. **"H. & W."** CORSETS, CORSET WAISTS, BRASSIÈRES, BANDEAUX, AND UNDERWAISTS FOR LADIES, MISSES, AND CHILDREN. Registered September 19, 1922. THE H & W COMPANY, Newark, N. J., a corporation of New Jersey. Renewed September 19, 1942.

159,030. **MAYFLOWER.** SHEETS AND PILLOWCASES. Registered September 19, 1922. R. H. MACY & CO., INC., New York, N. Y., a corporation of New York. Renewed September 19, 1942.

159,362. **SUNNYFIELD.** BUTTER. Registered September 26, 1922. THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J. Renewed September 26, 1942, to The Great Atlantic & Pacific Tea Company, New York, N. Y., a corporation of New Jersey.

159,457. **REDONDO.** CANNED FRUITS AND CANNED VEGETABLES. Registered September 26, 1922. FRED B. NEUHOFF, trading as Fred B. Neuhoff Company, Los Angeles, Calif. Renewed September 26, 1942, to Val Vita Food Products, Inc., Fullerton, Calif., a corporation of California, assignee by mesne assignments.

159,546. **CLARENCE.** CARTOON SERIALS. Registered September 26, 1922. THE SUN-HERALD CORPORATION. Renewed September 26, 1942, to New York Tribune Inc., New York, N. Y., a corporation of New York, assignee.

159,601. **OLD FAITHFUL AND REPRESENTATION OF A GEYSER.** MEATS, SCRAPPLE, CHILE CON CARNE, PIG SOUSE, MINCEMEAT. Registered September 26, 1922. YELLOWSTONE PACKING COMPANY. Renewed September 26, 1942, to Pierce Packing Company, Billings, Mont., a corporation of Montana, successor.

159,928. **SURE-NUFF.** COW FEED. Registered October 10, 1922. WILLIAM J. LAWTHER. Renewed October 10, 1942, to W. J. Lawther Mills, Dallas, Tex., a corporation of Texas, assignee.

160,135. **SAND SLINGER.** MACHINES FOR MAKING MOLDS FOR FOUNDING. Registered October 17, 1922. THE BEARDSLEY & PIPER COMPANY, Chicago, Ill., a corporation of Illinois. Renewed October 17, 1942.

160,209. **ALLONAL.** MEDICINAL PREPARATION RECOMMENDED AS A NONNARCOTIC HYPNOTIC AND ANALGESIC. Registered October 17, 1922. THE HOFFMANN-LA ROCHE CHEMICAL WORKS, New York, N. Y. Renewed October 17, 1942, to Hoffmann-La Roche, Inc., Nutley, N. J., a corporation of New Jersey, assignee.

160,311. **SANITEX.** BABIES' DIAPERS. Registered October 17, 1922. THOMAS TEXTILE COMPANY, assignor to Thomas J. Swartz. Renewed October 17, 1942, to Thomas Textile Co., Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

160,312. **REPRESENTATION OF A BABY.** BABIES' DIAPERS. Registered October 17, 1922. THOMAS TEXTILE COMPANY, assignor to Thomas J. Swartz. Renewed October 17, 1942, to Thomas Textile Co., Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

160,361. **AMBRAC.** CERTAIN DESCRIBED NON-FERROUS METALS AND ALLOYS AND CERTAIN PRODUCTS MADE THEREFROM. Registered October 24, 1922. THE AMERICAN BRASS COMPANY, Waterbury, Conn., a corporation of Connecticut. Renewed October 24, 1942.

160,388. **"BELLE" IN A RHOMB.** HARDWOOD LUMBER. Registered October 24, 1922. BELLGRADE LUMBER COMPANY, Memphis, Tenn., a corporation of Tennessee. Renewed October 24, 1942.

160,389. **"BELLE" IN AN OVAL.** HARDWOOD LUMBER. Registered October 24, 1922. BELLGRADE LUMBER COMPANY, Memphis, Tenn., a corporation of Tennessee. Renewed October 24, 1942.

160,393. **"CLAYOLA".** MODELING CLAY. Registered October 24, 1922. BINNEY & SMITH COMPANY, East Orange, N. J., and New York, N. Y. Renewed October 24, 1942, to Binney & Smith Company, New York, N. Y., a corporation of New Jersey.

160,405. **IDEAL.** MISCELLANEOUS BUILDERS' SUPPLIES. Registered October 24, 1922. WM. CAMERON & Co. INC., Waco, Tex., a corporation of Texas. Renewed October 24, 1942.

160,446. **A GREEN, A WHITE, AND A RED STRIPE.** CIGARS. Registered October 24, 1922. DE NOBILI CIGAR CO., INC., Long Island City and New York, N. Y. Renewed October 24, 1942, to De Nobili Cigar Company, Inc., Long Island City, N. Y., a corporation of New York.

160,510. **SULTANA.** BEANS AND PORK, AND CANNED FRUITS, INCLUDING PEARS, PEACHES, PINEAPPLE, PLUMS, APRICOTS, AND CHERRIES. Registered October 24, 1922. THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J. Renewed October 24, 1942, to The Great Atlantic & Pacific Tea Company, New York, N. Y., a corporation of New Jersey.

160,552. **BOLTED KING WHITE.** CHINA CLAY AND PLAIN AND COLORED BASES FOR DRESSING, WHITENING, AND FULLING COMPOUNDS. Registered October 24, 1922. E. & F. KING & COMPANY, INCORPORATED, Boston, Mass., a corporation of Massachusetts. Renewed October 24, 1942.

160,582. **CROMWELL.** WRITING PAPER. Registered October 24, 1922. MICHAEL MILTON, doing business as Milton Paper Company. Renewed October 24, 1942, to Milton Paper Company, Inc., New York, N. Y., a corporation of New York, assignee.

160,659. **COULTER SENIOR.** SHOE HOLDERS FOR HOLDING SHOES WHILE CLEANING AND POLISHING SAME. Registered October 24, 1922. CHARLES E. SCHMIDT, doing business as Coulter Mfg. Co., Philadelphia, Pa. Renewed October 24, 1942.

160,660. **COULTER JUNIOR.** SHOE HOLDERS FOR HOLDING SHOES WHILE CLEANING AND POLISHING SAME. Registered October 24, 1922. CHARLES E. SCHMIDT, doing business as Coulter Mfg. Co., Philadelphia, Pa. Renewed October 24, 1942.

160,713. **WIRELESS.** PLAYING CARDS. Registered October 24, 1922. THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed October 24, 1942.

160,831. **BAYER ASPIRINA.** CERTAIN NAMED MEDICINAL PREPARATIONS. Registered October 31, 1922. THE BAYER COMPANY, INC., New York, N. Y., a corporation of New York. Renewed October 31, 1942.

160,832. **REPRESENTATION OF "BAYER" LABEL.** CERTAIN NAMED MEDICINAL PREPARATIONS. Registered October 31, 1922. THE BAYER COMPANY, INC., New York, N. Y., a corporation of New York. Renewed October 31, 1942.

160,833. **"BAYER" CROSS IN A CIRCLE.** CERTAIN NAMED MEDICINAL PREPARATIONS. Registered October 31, 1922. THE BAYER COMPANY, INC., New York, N. Y., a corporation of New York. Renewed October 31, 1942.

160,906. **CAKE EATER.** CANDY, SPECIFICALLY CHOCOLATE BARS. Registered October 31, 1922. LOOSE-WILES BISCUIT COMPANY, Kansas City, Mo., a corporation of Missouri. Renewed October 31, 1942.

160,998. **GLOSTORA.** A PREPARATION FOR IMPROVING THE APPEARANCE AND FACILITATING THE DRESSING OF THE HAIR. Registered October 31, 1922. THE R. L. WATKINS COMPANY, Cleveland, Ohio. Renewed October 31, 1942, to The R. L. Watkins Company, New York, N. Y., a corporation of Ohio.

161,052. **TRET-O-LITE.** CHEMICALS USED IN THE TREATMENT OF PETROLEUM EMULSIONS TO EFFECT THE RECOVERY OF THE VALUABLE OIL CONTENT OF SUCH EMULSIONS. Registered November 7, 1922. WILLIAM S. BARNICKER & CO., St. Louis, Mo. Renewed November 7, 1942, to Petrolite Corporation, Ltd., Webster Groves, Mo., a corporation of Delaware, assignee by mesne assignments.

161,057. **GRACE-MAE.** HOSIERY. Registered November 7, 1922. BELMONT HOSIERY COMPANY, Belmont, N. H., a corporation of New Hampshire. Renewed November 7, 1942.

161,063. **L'AIGLON.** CHILDREN'S DRESSES, MIDDY BLOUSES, SHIRT WAISTS, AND OUTER SKIRTS. Registered November 7, 1922. BIBERMAN BROS. INC., Philadelphia, Pa., a corporation of Pennsylvania. Renewed November 7, 1942.

161,173. **IVY.** LADIES' UNDERWEAR, CONSISTING OF BLOOMERS, KNICKERBOCKERS, UNDERVESTS, OF KNITTED OR WOVEN FABRICS. Registered November 7, 1922. IVY CORSET COMPANY, Worcester, Mass., a corporation of Massachusetts. Renewed November 7, 1942.

161,191. **THE BACHELOR.** PYJAMAS. Registered November 7, 1922. KNOTHE BROTHERS CO., INC., New York, N. Y., a corporation of New York. Renewed November 7, 1942.

161,200. **LENIX.** HOSIERY. Registered November 7, 1922. GEORGE H. LEININGER, doing business as Industrial Hosiery Mills. Renewed November 7, 1942, to Industrial Hosiery Mills, Inc., Mohnton, Pa., a corporation of Pennsylvania, successor.

161,236. **ALKOBALM.** LIQUID RUB FOR EXTERNAL USE. Registered November 7, 1922. MINARD COMPANY, Framingham and South Framingham, Mass. Renewed November 7, 1942, to Minard Company, Framingham, Mass., a corporation of Massachusetts.

161,237. **MIRROLIKE.** DISINFECTANTS, DEODORANTS, AND INSECTICIDES. Registered November 7, 1922. MIRROLIKE MFG. CO., Long Island City, New York, a corporation of New York. Renewed November 7, 1942.

161,262. **FLEXATOR.** BOOTS, SHOES, AND SLIPPERS OF LEATHER, RUBBER, FELT, SILK, CLOTH, OR OTHER FABRIC CONSTRUCTION. Registered November 7, 1922. THOMAS G. PLANT COMPANY, Boston, Mass. Renewed November 7, 1942, to International Shoe Company, St. Louis, Mo., a corporation of Delaware, assignee by mesne assignments.

161,308. **HICKORY.** HOUSEHOLD APRONS, GIRDLE SUPPORTERS, AND BABY PANTS. Registered November 7, 1922. A. STEIN & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed November 7, 1942.

REISSUES

JUNE 16, 1942

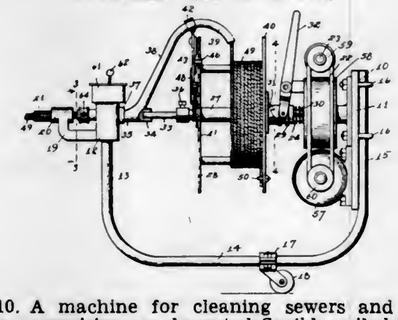
22,113

DRAIN CLEANER

Samuel O. Blanc, Des Moines, Iowa

Original No. 2,111,527, dated March 15, 1938, Serial No. 740,621, August 20, 1934. Application for reissue March 15, 1940, Serial No. 324,226

11 Claims. (Cl. 15—104.30)



10. A machine for cleaning sewers and the like, comprising an elongated flexible coiled wire spring element capable of being projected into circuitous sewer pipes and of being wound to a high tension and of storing mechanical energy therein of sufficient magnitude to drive a cutter to be mounted on the outer end thereof through roots or other obstructions found in sewers, a guide through which said spring element is free to pass axially and in which it may twist or rotate, and a reel mounted for rotation on an axis in alignment with the axis of said guide, said spring element having its inner end fixed to said reel, said reel being adapted, by rotation on said axis, to permit of paying out and reeling in desired lengths of said spring element as may be required in use, and serving to hold in coiled relationship about said axis, such portions of said spring element as may be unused at any particular time, means between said guide and reel for at all times maintaining that portion of the spring element which is disposed between the guide and reel against kinking or buckling when under tension and in a crank-like formation, and at all times permitting such portion to pass axially therethrough and to twist or rotate therein, said reel further serving, by rotation on said axis, to impart bodily rotation to said spring element when its outer end is free to rotate, and a twist thereto to store tension therein when its outer end is held against rotation, and said spring element being free to twist and store such energy throughout its entire length including such portion thereof as may be held in coiled relationship by said reel, and means for imparting rotation to said reel in a direction to wind tension in said spring element and to maintain the unused portion thereof in coiled relationship.

22,114

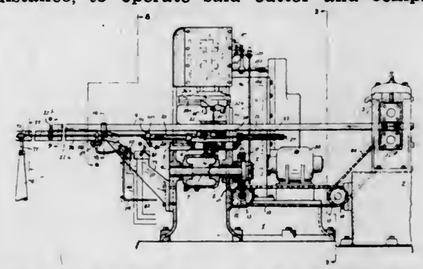
CUTOFF MECHANISM

Alexander Borzym, Detroit, Mich., assignor to The Yoder Company, Cleveland, Ohio, a corporation of Ohio

Original No. 2,205,389, dated June 25, 1940, Serial No. 193,957, March 4, 1938. Application for reissue June 21, 1941, Serial No. 399,219.

32 Claims. (Cl. 164—49)

14. In a cutoff mechanism, the combination with a frame, of means for feeding work to be cut into sections, a shaft mounted in said frame, a die slidably mounted on said frame to reciprocate in line with the work, a cutter slidably mounted on said frame and operated by said shaft toward and from the work, means for locking said shaft against rotation in a predetermined position and releasing it, a spring operated power mechanism connected to said shaft and arranged to start the rotation thereof when said shaft is released, a separate power mechanism, a clutch arranged to automatically connect said separate power mechanism to said shaft, when the latter rotates a predetermined distance, to operate said cutter and compress



said spring and automatically disconnect said mechanism from said shaft in further rotation of said shaft to a predetermined position, means for reciprocating said die, driving mechanism independent of said spring operated power mechanism for operating said die reciprocating means, means actuated by the work for connecting said driving mechanism to said reciprocating means and for operating said locking means to release said shaft, the elements of said locking means being arranged to return to locking position during one revolution of said shaft, and to lock it in said predetermined position under the influence of said spring operated power mechanism, and a device carried by said frame for controlling the operation of said clutch.

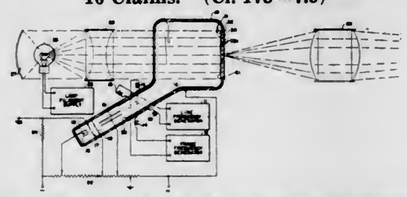
22,115

LIGHT-VALVE PROJECTION APPARATUS FOR TELEVISION SIGNAL-REPRODUCING SYSTEMS

Philip J. Herbst, Fort Wayne, Ind., assignor to Hazeltine Corporation, a corporation of Delaware

Original No. 2,169,838, dated August 15, 1939, Serial No. 204,959, April 29, 1938. Application for reissue May 2, 1941, Serial No. 391,571

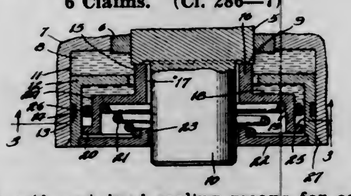
16 Claims. (Cl. 178—7.5)



1. In a television signal-reproducing system, a light-valve projection apparatus comprising, a multiple lens system including a plurality of juxtaposed lens elements, a screen adjacent said

lens system, said lens elements being proportioned to focus parallel light rays on individual separate areas of said screen, said screen being generally transparent but opaque over said areas, each of said lens elements having the property of varying its focus with respect to said screen in response to excitation by a scanning ray, thereby to permit said light rays to pass through said screen adjacent its respective opaque areas.

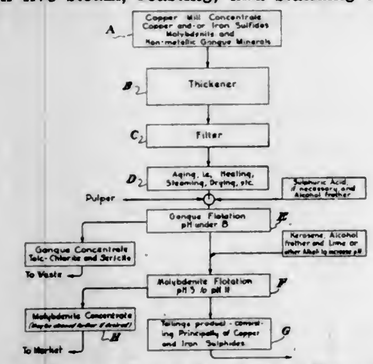
22,116
SEAL FOR SHAFTS
John T. Janette, Kenilworth, Ill., assignor to Janette Manufacturing Company, Chicago, Ill., a corporation of Illinois
Original No. 2,185,554, dated January 2, 1940, Serial No. 154,837, July 21, 1937. Application for reissue December 23, 1941, Serial No. 424,172
6 Claims. (Cl. 286—7)



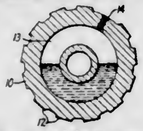
5. A self-contained sealing means for cooperation with a rotatable shaft having an annular projection thereon, and a housing in which the shaft is mounted, comprising a cup to be fitted in a recess in the housing around the shaft and making a tight closure with the wall of the recess, a sealing member positioned within the cup and having a cylindrical portion of larger internal diameter than the diameter of the shaft, extending through the open end of the cup and adapted to engage with the projection on the shaft to make a tight joint therewith, spring means interposed between the bottom of the cup and the sealing member and tending to hold the end of the cylindrical portion against the projection on the shaft, and a relatively narrow ring formed of resilient material fitted between the sealing member and the inner wall of the cup, and having substantially line contact with the sealing member and the walls of the cup, said ring serving to hold the sealing member centrally disposed in the cup and also serving to make a tight closure between the cup and the sealing member.

22,117
PROCESS OF RECOVERING MOLYBDENITE BY FROTH FLOTATION
Thomas A. Janney, Garfield, Alpha G. Johnson, Magna, and Charles M. Nokes, Salt Lake City, Utah
Original No. 2,255,776, dated September 16, 1941, Serial No. 250,014, January 9, 1939. Application for reissue October 28, 1941, Serial No. 416,910
17 Claims. (Cl. 209—3)

16. In the separation of molybdenite by flotation from a bulk flotation concentrate produced from a mineral aggregate including other sulphide minerals such as iron and copper sulphides and gangue materials by subjecting the mineral aggregate to a first froth flotation in the presence of a collector for such other metallic sulphides, the step which comprises subjecting said bulk flotation concentrate to a treatment selected from the group consisting of atmospheric drying, heating in water, drying on a hot plate, drying followed by heating after reaching dryness, heating with live steam, roasting, and standing in water, until said collector is substantially completely removed.

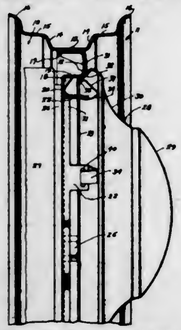


22,118
POROUS METALLIC TYPE
Carl N. Lohrey, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Original No. 2,199,265, dated April 30, 1940, Serial No. 218,377, July 9, 1938. Application for reissue June 19, 1940, Serial No. 341,397
13 Claims. (Cl. 101—368)



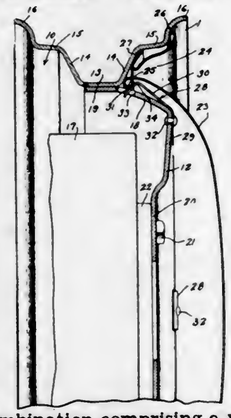
1. The method of making porous printing type consisting of mixing seven parts of powdered nickel and three parts of powdered copper; and molding the mixture under great pressure until a rigid structure is formed.

22,119
ORNAMENTAL MEMBER FASTENING MEANS
George Albert Lyon, Allenhurst, N. J.
Original No. 2,193,106, dated March 12, 1940, Serial No. 156,280, July 29, 1937. Application for reissue December 23, 1940, Serial No. 371,441
15 Claims. (Cl. 301—37)



1. With a wheel having an irregular cross sectional configuration and having an ornamental member disposed thereon, an attaching means for detachably securing the member to the wheel comprising a plurality of self-securing resilient clips each having a tail portion adapted to be wedged between radially spaced portions of said irregular surface of said wheel, thereby to secure said clips to said wheel, and each of said clips having a free intermediate portion bent obliquely back on itself and terminating in a member engaging end portion which is bent at a substantial angle to said obliquely bent portion, said end portion being adapted to extend behind an annular portion of said member.

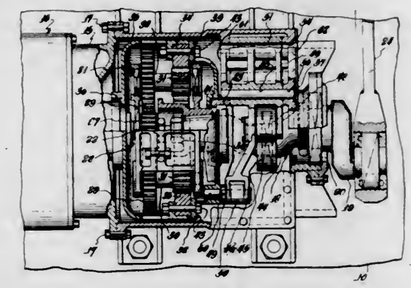
22,120
WHEEL COVER
George Albert Lyon, Allenhurst, N. J.
Original No. 2,214,747, dated September 17, 1940, Serial No. 135,657, April 8, 1937. Application for reissue December 23, 1940, Serial No. 371,442
13 Claims. (Cl. 301—37)



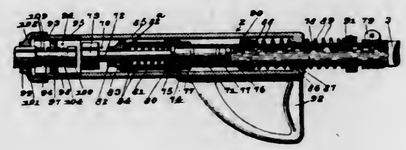
1. The combination comprising a wheel, an ornamental member for disposition on the outer side of said wheel having an underturned marginal edge, and a plurality of resilient leaf ornamental member retaining elements each secured to said wheel at one end and extending radially outwardly and axially inwardly of their point of attachment to the wheel, each element being bent at its free end to form a cam surface at a substantial angle to the direction of normal extension, said cam surface being adapted to engage said underturned edge to retain said ornamental member in desired position on said wheel.

22,121
DRIVE MECHANISM FOR SHAKER CONVEYERS
William W. Sloane, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Original No. 2,077,811, dated April 20, 1937, Serial No. 706,787, January 15, 1934. Renewed October 28, 1935. Application for reissue April 15, 1942, Serial No. 439,140
30 Claims. (Cl. 198—220)

1. In a shaker conveyer operating mechanism, a rotatable member, a drive member reciprocated thereby and operatively connected with a conveyer trough for reciprocably driving said conveyer trough, and means for driving said rotatable member at a variable angular velocity for driving said conveyer trough in such a manner as to move material therealong, comprising a reaction member, a driven member having operative engagement therewith, a drive connection from said driven member to said rotatable member, and a connection to said reaction member for moving said reaction member in opposite directions during each revolution of said rotatable member.



22,122
POWER TOOL
Charles F. Warren, Milwaukee, Wis., and William R. Smith, Wynne, Ark., assignors to The S & W Hydraulic Tool Company, Wynne, Ark., a corporation of Arkansas
Original No. 2,260,268, dated October 21, 1941, Serial No. 259,291, March 1, 1939. Application for reissue December 8, 1941, Serial No. 422,122
23 Claims. (Cl. 125—32)

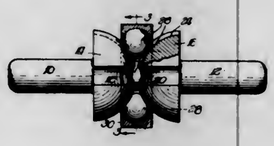


1. An impact implement consisting of a casing, a tube slidable in said casing and constituting one terminal of a hydraulic column, a hammer reciprocable in said tube and abutting the hydraulic column, an anvil in spring-floated relationship to the hammer, means guiding the tube and hammer assemblage in the casing and in respect to said anvil, and shock absorber means abutting portions of both the casing and tube, floating the tube and hammer assemblage in said sliding relationship.

PATENTS

GRANTED JUNE 16, 1942

2,286,182
CONSTANT VELOCITY UNIVERSAL JOINT
Walter E. Amberg, Chicago, Ill.
Application December 15, 1938, Serial No. 245,805
14 Claims. (Cl. 64—21)



1. A single constant velocity universal joint, comprising, in combination, a driving shaft, a driven shaft, a spherically shaped portion affixed to the extremity of the driving shaft, a similar spherically shaped portion affixed to the extremity of the driven shaft, a track formed on the outer convex surface of the spherically shaped portion of the driving shaft, said track being arranged to extend in the direction of the central longitudinal axis of the driving shaft, a complemental track formed on the outer convex surface of the spherical portion of the driven shaft, and intermediate means cooperating with said tracks to afford a driving connection therebetween, said means comprising a ball engaging simultaneously complemental tracks of the driving and driven shafts.

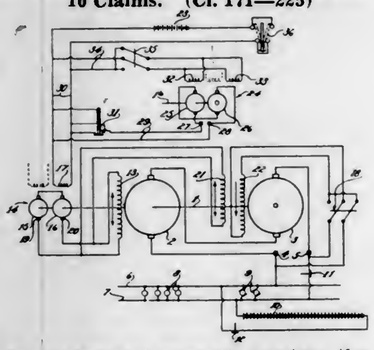
2,286,183
ALKYLATION OF ISOPARAFFINIC HYDROCARBONS
William E. Bradley, Los Angeles, and Karl J. Korpi, Palos Verdes Estates, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application May 2, 1938, Serial No. 205,532
2 Claims. (Cl. 196—10)

1. A process for producing motor fuels which comprises reacting isoparaffinic hydrocarbons of less than seven carbon atoms per molecule with olefinic hydrocarbons having more than two carbon atoms per molecule in the presence of an alkylating catalyst and diamyl ether.

2,286,184
PROCESS FOR PRODUCING PARAFFINIC HYDROCARBONS
William E. Bradley, Los Angeles, and Karl J. Korpi, Palos Verdes Estates, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application May 14, 1938, Serial No. 208,058
15 Claims. (Cl. 196—10)

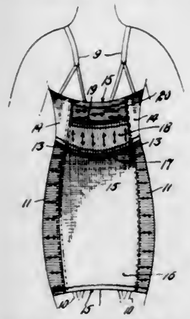
1. A process of forming alkylated paraffinic hydrocarbons which comprises interacting isoparaffinic hydrocarbons having less than seven carbon atoms per molecule with olefinic hydrocarbons having more than two carbon atoms per molecule in the presence of strong sulfuric acid and a low molecular weight carboxylic acid.

2,286,185
GENERATING SYSTEM FOR CONSTANT VOLTAGE AT VARIABLE SPEED OF PRIME MOVER
Edward G. Gallagher, Florence, Mass., assignor to Edward Corbett, Chicago, Ill.
Application May 29, 1940, Serial No. 337,776
10 Claims. (Cl. 171—225)



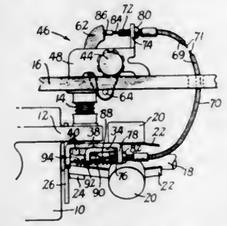
1. In an electrical generating system, the combination of two armatures operated from the same rotating shaft adapted to generate currents of opposing polarity and coupled together in series, an exciting field adjacent said armatures, and means for varying the effect of said field by moving it along the axis of said armatures.

2,286,186
FOUNDATION GARMENT
Mark Kahn, Cedarhurst, N. Y., assignor to Artistic Foundations, Inc., New York, N. Y., a corporation of New York
Application July 12, 1941, Serial No. 402,078
2 Claims. (Cl. 2—37)



1 A combination foundation garment of the character described composed of a front panel, a rear panel, and two side panels connected between the opposite edges of the front and rear panels, the front panel including brassière portions, the side panels including portions at the sides of the hips which are elastic horizontally but not vertically and inelastic portions connected to the brassière portions, and the rear panel including three generally rectangular sections arranged one above the other and having their adjacent edges secured together, the bottom section being composed entirely of inelastic material and extending from a lower edge below the buttocks to an upper edge lying approximately at the waistline, the middle section being composed of vertically elastic horizontally inelastic material, and the top section being composed of horizontally elastic vertically inelastic material.

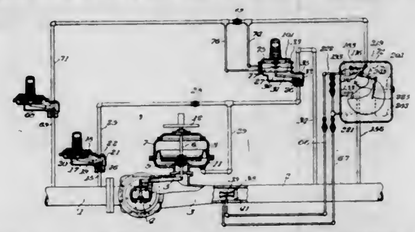
2,286,187
SPEED CONTROL MECHANISM
Joseph M. Lucarelle and Charles Ecklund, Bridgeport, Conn., assignors to Dictaphone Corporation, New York, N. Y., a corporation of New York
Application January 18, 1941, Serial No. 374,998
6 Claims. (Cl. 188—187)



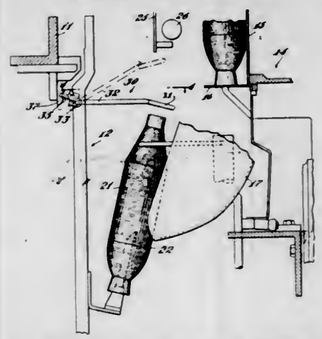
1. A speed-controlling device for phonographs comprising, in combination, phonograph driving means, a supporting plate secured to said driving means, a speed-regulating member movably attached to said plate and operatively connected to said driving means, resilient means biasing said member toward a predetermined position relative to said plate, a control unit bracket adapted to be remotely positioned relative to said driving means, a speed control lever movably attached to said bracket, a Bowden-wire element extending between said plate and said bracket, the sheath of said Bowden-wire being anchored at one end to said plate and at the other end to said bracket, one end of the movable inner wire of said Bowden-wire element being secured to said speed control lever and the other end being secured to said speed-regulating member to pull against the force of said resilient means when said speed control lever is moved in one direction, means for holding said latter lever in any desired position against the action of said resilient means thereby to position said speed-regulating member in any desired position, and means associated with one end of the sheath of said Bowden-wire element for adjusting its position with respect to its anchorage to vary the limits of the range of control of said speed control mechanism.

2,286,188
FLUID DISTRIBUTION SYSTEM
Allen D. MacLean, Pittsburgh, Pa., assignor to Pittsburgh Equitable Meter Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 16, 1938, Serial No. 230,343
19 Claims. (Cl. 50—16)

1. In a fluid pressure regulating system, the combination of high and low pressure mains, a valve for controlling passage of fluid between said mains, a pressure responsive device having means connected to said valve to govern the operation thereof, a differential pressure producing device to produce a differential pressure responsive to gas velocity, a conduit connected between the pressure responsive device and said low pressure main whereby said pressure responsive device tends to maintain a constant pressure in said main, means to load said pressure responsive device by the differential pressure, and means for intermittently changing the differential pressure applied to said pressure responsive device.

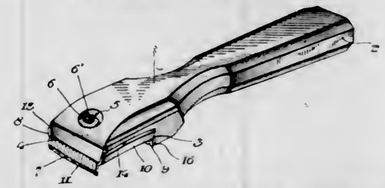


2,286,189
WINDING MACHINE
Edward J. Abbott, Wilton, N. H., assignor to Abbott Machine Company, Wilton, N. H., a corporation of New Hampshire
Application August 1, 1940, Serial No. 349,104
7 Claims. (Cl. 242—35.5)



1. A winding machine having therein a holder for an unwinding bobbin, a balloon controlling device normally located near the tip of the bobbin and defining a guide for the unwinding yarn, replenishing means for the winding unit, and means for automatically causing the balloon controlling device to occupy another position during the operation of the replenishing means.

2,286,190
SCRAPING TOOL
Alfred W. Abrahamsen, Hempstead, N. Y.
Application April 13, 1939, Serial No. 267,634
23 Claims. (Cl. 30—171)



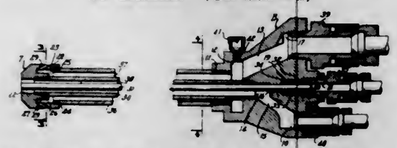
9. A tool of the class described comprising a handle having a blade receiving face, and a blade secured thereto and comprising a body having a corrugated flange bent at an angle thereto, said flange having a serrated cutting edge.

2,286,191
MINERAL PIERCING AND CUTTING
Robert B. Aitchison, Staten Island, and Charles J. Burch and Charles W. Swartout, Kenmore, N. Y., assignors to The Linde Air Products Company, a corporation of Ohio
Application April 18, 1939, Serial No. 268,633
19 Claims. (Cl. 262—1)



7. A process of thermally working a solid body of mineral or like material, which process comprises discharging, from suitable source means within a selected substantially enclosed region of said body, a stream of fuel gas carrying in suspension therein finely-divided combustible metal, and a separate flowing body of combustion-supporting gas surrounding such stream of fuel gas, to mix such gases together outside said source means and form a combustible gas mixture within said region; burning said gas mixture and said metal within such region, thereby producing intense heat and disintegrating an adjacent zone of said body; advancing said source means within said body, to similarly produce heat adjacent successive zones of such body and progressively disintegrate them; and concurrently removing disintegrated portions of said body from adjacent said zones by a flowing stream of an ejection fluid.

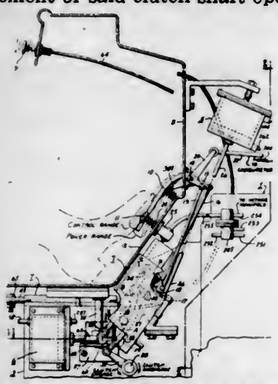
2,286,192
MINERAL PIERCING AND CUTTING
Robert B. Aitchison, Grasmere, and George H. Smith and Charles W. Swartout, Kenmore, N. Y., assignors to The Linde Air Products Company, a corporation of Ohio
Application April 18, 1939, Serial No. 268,635
29 Claims. (Cl. 262—1)



22. A heating instrumentality adapted to provide heat for thermally piercing, cutting, or otherwise disintegrating minerals and the like, comprising a heating end; a manipulating end; and means for discharging in a lateral direction intermediate said ends a curtain of fluid whereby the access of debris to an operator is prevented.

2,286,193
FULL AUTOMATIC AUTOMOTIVE TRANSMISSION
David S. Bennetch, Sheridan, Pa.
Application July 17, 1937, Serial No. 154,215
20 Claims. (Cl. 192—.01)

1. In an automotive transmission system, an internal combustion engine, a mechanical clutch, a stepped, shifting gear type transmission, an accelerator pedal, a throttle, a clutch cylinder for operating the clutch, a gear shift cylinder for shifting the gears, a control device comprising a governor connected to a point between said clutch and transmission, a clutch shaft rotatable with movement of said clutch cylinder, a gear shift shaft rotatable with movement of said gear shift cylinder, a transfer shaft connected to the accelerator pedal, to the throttle and also to the governor, said transfer shaft having transfer clutches for transferring control of the throttle between said accelerator pedal and governor, mechanism controlled by rotation of said clutch shaft for operating said transfer clutches, mechanism operated by said governor for shifting said clutch shaft axially, means whereby axial movement of said clutch shaft operates the



clutch cylinder, means whereby rotation of said clutch shaft operates the gear shift cylinder, means whereby rotation of the gear shift shaft operates the clutch cylinder and the gear shift cylinder, means for disconnecting said governor from said clutch shaft upon rotation of the latter to permit said governor to operate upon said transfer shaft.

2,286,194
PROCESS FOR MAKING GALVANIZED ARTICLES
Albert F. Bradley, Sterling, Ill., assignor to Northwestern Steel and Wire Company, Sterling, Ill., a corporation of Illinois
Application March 8, 1939, Serial No. 260,543
2 Claims. (Cl. 91—70.3)

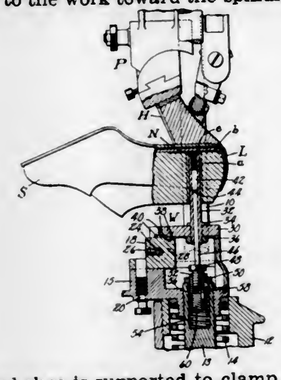


2. The continuous process of making galvanized annealed wire which comprises drawing wire stock through a reducing die, continuously passing the resulting wire through a heating zone, flowing an electric current through the traveling wire in the heating zone, dissipating heat generated by said electric current from the wire surface, adjusting the magnitude of said current and the rate of heat dissipation to maintain the temperature of the interior of said wire in the recrystallization range and the temperature of the exterior of the wire below said range, and continuously passing the heat treated wire through a bath of molten zinc.

2,286,195
METHOD OF AND MACHINE FOR ATTACHING HEELS TO SHOES
Francis L. Brandt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application September 21, 1940, Serial No. 357,785
10 Claims. (Cl. 1—32)

1. The method of attaching a heel to a shoe, which consists in associating a shoe and a last having a passage of two different diameters through its cone to form a shoulder, supporting the lasted shoe on a tubular spindle with the end

thereof engaging said shoulder, placing a heel upon the heel-seat of the spindled shoe, applying pressure to the work toward the spindle on which



the lasted shoe is supported to clamp the heel in position, and inserting a fastening through the supporting spindle and the heel-seat of the shoe into the heel while so clamped.

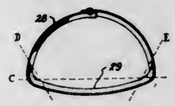
2,286,196
ALIGNMENT MECHANISM FOR RECORDING SCALES
James E. Butler, Memphis, Tenn., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application August 1, 1940, Serial No. 349,259
6 Claims. (Cl. 265—5)



1. In set-up mechanism for recording-type scales, a locating disc of floating type, having a serrate periphery, a locating finger assembly coacting with the periphery of the disc for fixing the weight values to be derived by the recording mechanism, the finger assembly including an elongated main finger and an elongate auxiliary finger, the fingers being arranged in slightly spaced, substantially parallel relation, the main finger having a plurality of edge portions, and the auxiliary finger provided with a single such edge portion, the serrate periphery of the locating disc being characterized by a plurality of evenly spaced peripheral teeth and intervening notches, the edge portions of the fingers being arranged to coact with the teeth and notches on the locating disc, an operating member, operatively connected to both the main finger and the auxiliary finger, and arranged positively to propel and retract the fingers, toward and from the locating disc, at desired times, a guide embracing and common to both fingers, but arranged to permit a slight convergence of the fingers therein, and a spring between and abutting the fingers, tending to bias the fingers into substantial parallelism and yet yieldably permitting their convergence within the guide.

2,286,197
PIPE OR CULVERT
Howard S. Claybaugh, Minneapolis, Minn., assignor to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio
Application November 10, 1939, Serial No. 303,846
7 Claims. (Cl. 138—70)

1. An arch shaped culvert comprising a sheet metal tube having a top arch wall and a base wall, the said arch wall being of an extent not greater than a semi-circle and of relatively large radius, the said arch wall having its foot portions connected to the base by curved connecting portions of relatively small radius, the said curved connecting portions and adjacent portions of said arch wall and said base wall constituting at least substantially one third of the extent of said arch wall and base wall, being integral, the said culvert being corrugated with the corrugations



running substantially transversely of the axis of the culvert and continuously through the arch wall, connecting portions and base wall, the said connecting portions being of metal characterized by greater work straining than the arch wall and base wall, the said structure having a load sustaining strength not substantially less than the load sustaining strength of a full round culvert of the same span and made of sheet metal of the same gauge and quality and having the same pitch and depth of corrugations.

2,286,198
ALLOY WROUGHT IRON AND ARTICLE MADE THEREFROM
John W. Davis, Tarentum, Pa., and Ray McBrian, Denver, Colo.
No Drawing. Application September 19, 1940, Serial No. 357,440
4 Claims. (Cl. 75—123)

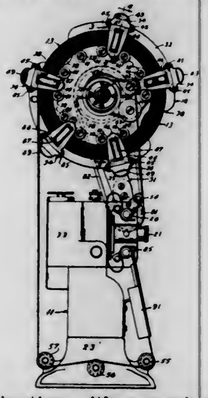
1. An alloy wrought iron aggregated from a solidifying mass of pasty particles of highly refined metallic iron alloyed with molybdenum, with which, without subsequent fusion, is intentionally incorporated a substantially uniformly distributed quantity of slag in an amount such as is normally present in wrought iron; said alloy containing from about .10% to about 1.00% molybdenum, carbon less than about .06%, with the balance substantially all iron except for said slag and the usual impurities present in wrought iron.

2,286,199
MANGANESE ALLOY
Reginald S. Dean, Washington, D. C., assignor to Chicago Development Company, Chicago, Ill.
Application July 16, 1938, Serial No. 219,501
1 Claim. (Cl. 75—126)



Alloys hardenable without cracking by heating, cooling and reheating to a lower temperature, said alloys consisting essentially of chromium, manganese and iron in the following proportions: from 6% to 12% chromium, from 50% to 60% manganese, and the balance iron, with the exception of such small amounts of impurities as will not affect the properties of the alloys.

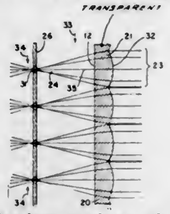
2,286,200
ENDLESS FILM REELING DEVICE FOR MOTION PICTURE PROJECTORS
Dolphus O. Dolinig, River Forest, Ill., assignor to Mills Novelty Company, Chicago, Ill., a corporation of Illinois
Application November 30, 1939, Serial No. 306,827
13 Claims. (Cl. 88—18.7)



1. In combination with a moving picture projector having a projection lens and film feed means for moving film across the axis of the projection lens as an incident to the projection of motion pictures, and an endless film therefor including an annular coil having its ends connected, and forming a separate loop, film guide devices arranged and supported to guide the film of the separate loop about the projector in a film travel plane located parallel to the axis of the projection lens and to the line of movement of the film across the axis thereof, and a carrier for the annular coil of film supported above the projector and provided with means for rotating the annular coil and effecting unwinding thereof from the inside, said carrier being adapted to hold the annular coil perpendicularly with a portion of the periphery thereof intercepting the film travel plane for receiving film as an incident to rotation of the coil and provided with film guiding and control means located within the coil and disposed angularly with respect thereto for directing film spirally back into the film travel plane as an incident to its movement toward the projector, said carrier and guiding means being arranged to dispose said film travel plane in a straight line with respect to the point on the carrier at which the film proceeding from the projector is received, whereby the film may travel in said plane from the point to which it is directed by said guide means to said receiving point on the carrier without twisting.

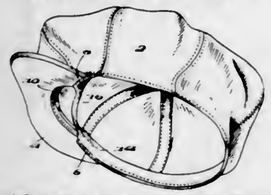
2,286,201
OPAQUE APERTURED SIGNAL LENS
Clair L. Farrand, Larchmont, and Harry Sidney Newcomer, New York, N. Y.
Application April 5, 1939, Serial No. 266,102
10 Claims. (Cl. 177—329)

1. A signal lamp comprising a light source, a collimator, a plate of convergent lenses of index n arranged side by side, and an apertured plate of opaque material, all successively arranged in the order named; the light apertures of said plate being of such magnitude and so disposed with respect to the axes of said lenses as to accommodate the smallest cross-section of the cones of rays of light from the collimated source focussed by the lenses, said apertured plate having a light absorbent front surface being separated from the plate of lenses by a medium of index substantially less than n,



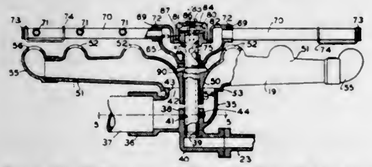
whereby the viewing surface of the said signal lamp presents a maximum opacity and low reflectivity to incident light, yet freely passes the light from said source with minimum impediment.

2,286,202
VENTILATED CAP
Philip A. Fischer, New York, N. Y.
Application September 30, 1938, Serial No. 232,673
8 Claims. (Cl. 2—195)



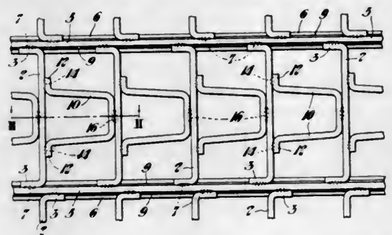
1. A ventilated cap comprising a visor, the central, rear portion of which is recessed to provide an opening of substantial size, a sweat band extending around the wearer's head and across said recess and defining the rear edge thereof, that portion of the sweat band bordering said recess being made substantially narrower than the body portion of the band and upwardly arched, so as in use to be positioned substantially at the frontal hair line of the wearer, to expose the entire forehead to the cooling effect of air admitted through the recess in the visor.

2,286,203
WASHING MACHINE
Gerald B. Fox, Troy, Ohio, assignor to The Hobart Manufacturing Company, Troy, Ohio, a corporation of Ohio
Application January 13, 1939, Serial No. 250,793
6 Claims. (Cl. 299—70)



1. In a washing machine of the character described, a pair of fluid distributing arms for distributing fluid to and upon the articles to be washed, a stem member, means for mounting said arms adjacent each other for independent rotation on said stem member with one of said arms being positioned inwardly of the other in the direction in which the fluid is projected, a driven member carried by and rotatable with the inner of said arms, a drive member carried by and rotatable with the outer of said arms, means for supporting said members respectively for movement relative to each other from an inoperative position leaving the arms free of contact with each other to an operative interengaging position, cooperating means on said drive and driven members for effecting the retaining of said inner arm in non-interfering relation with the fluid discharge from said outer arm during driving engagement therebetween, and means operable upon supply of pressure fluid to and rotation of said outer arm in the absence of supply of pressure fluid to said inner arm for effecting said relative movement of said drive and driven members to establish driving engagement therebetween.

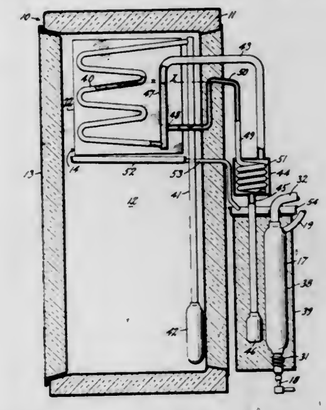
2,286,204
GRATING STRUCTURE
Gerald G. Greulich, Mount Lebanon, Pa.
Application November 15, 1939, Serial No. 304,605
2 Claims. (Cl. 189—82)



1. A grating structure for open bridge decks and the like comprising, in combination, a plurality of primary members arranged in parallelism, a plurality of parallel substantially horizontally disposed U-shaped secondary members, the legs of said secondary members being secured to said primary members, and a plurality of horizontally disposed U-shaped tertiary members, said tertiary members being similarly disposed and aligned with respect to each other and provided at the ends of the legs thereof with right-angular flanges which are secured to said secondary members, said primary members and said tertiary members having their upper edges occupying a common plane, the upper edges of said secondary members being disposed below the corresponding edges of said primary members and said tertiary members whereby the latter provide for increased traction.

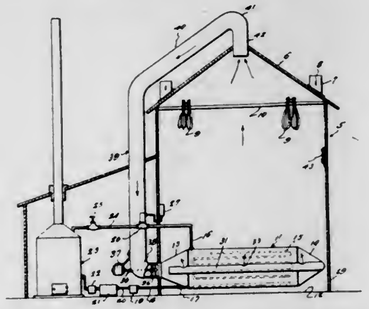
2,286,205
HEAT TRANSFER SYSTEM
Gunnar Grubb, Stockholm, Sweden, assignor, by mesne assignments, to Servel, Inc., New York, N. Y., a corporation of Delaware
Application September 17, 1938, Serial No. 230,401
In Germany September 30, 1937
15 Claims. (Cl. 62—5)

1. A vaporization-condensation heat transfer circuit partly filled with a volatile liquid and including two evaporation members and a common condensation member, trap means in said circuit capable of withholding liquid from both of said evaporation members, said trap means being so constructed and arranged that liquid will flow to one of said evaporation members upon rise of liquid level in said trap means and liquid will flow to the other of said evaporation members upon increase in pressure in said circuit resulting from evaporation of liquid in said one evaporation member, and means for controlling said trap means to raise or lower the level to which liquid



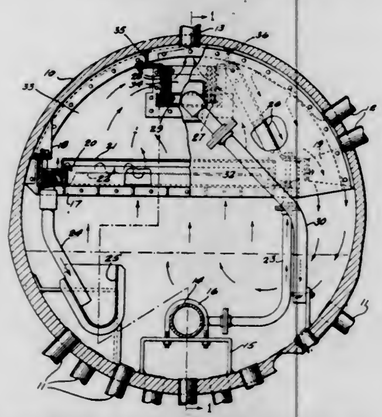
must rise therein before flowing to said one evaporation member.

2,286,206
TOBACCO CURING SYSTEM
Charles T. Jackson, Greenville, N. C.
Application June 27, 1940, Serial No. 342,814
5 Claims. (Cl. 34—48)



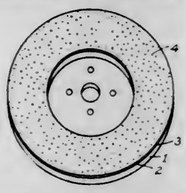
1. A tobacco curing system comprising a substantially closed barn in the upper part of which the tobacco to be cured is adapted to be suspended, a heater in the lower part of the barn, said heater comprising a relatively large cross section horizontal casing extending across the barn, smaller cross section horizontal heated air conduits extending laterally from the forward end of the casing, said heated air conduits being formed with heated air discharging openings spaced therealong, longitudinal steam heating coils occupying a major portion of the interior of said casing between the ends thereof, a steam supply for said coils, an air return conduit supported exteriorly of the barn, said return conduit having its upper end in communication with the upper part of the barn above the location of the suspended tobacco and having its lower end connected with the rear or air intake end of said casing, and an air circulating fan in the lower part of said return conduit acting to draw air from said return conduit and force the air through said casing in contact with the steam heating coils and into the interior of the barn through the openings in said heated air conduits.

2,286,207
STEAM GENERATOR
Walter F. Keenan, Jr., Pelham Manor, and Martin Frisch, New York, N. Y., assignors to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application April 29, 1938, Serial No. 204,944
7 Claims. (Cl. 122—459)



1. In a steam and water drum for a water tube steam boiler, steam intakes in the upper portion of said drum, partitioning means forming an upper chamber in said drum above the normal water level therein, one side of said partition being adjacent said steam intakes and positioned to direct steam passing therethrough downwardly, a steam washer positioned in the drum comprising a bubble tray forming the bottom of said partitioning means, said tray having a plurality of steam nozzles therein, bubble caps for said nozzles, means for delivering boiler feed water to said tray, said means extending below said tray and being connected to one side thereof, and means for maintaining feed water at a predetermined level on said tray below the upper ends of said nozzles and for delivering said water to the lower portion of said drum.

2,286,208
GRANULAR COATED ARTICLE AND ITS MANUFACTURE
Henry P. Kirchner, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
Application December 3, 1940, Serial No. 368,339
9 Claims. (Cl. 51—197)



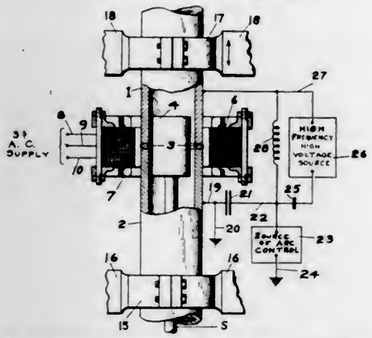
1. An unattached coated abrasive sheet adapted to be temporarily attached to a permanent backing comprising a backing material having a layer of abrasive particles attached thereto by a binder, and a thin layer of permanently tacky pressure-sensitive adhesive on the opposite side of said backing material.

2,286,209
PRODUCTION OF MAGNESIUM
Roy C. Kirk, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application May 31, 1940, Serial No. 338,095
4 Claims. (Cl. 75—67)

1. In a process for the production of metallic magnesium wherein a magnesia-containing ore comprising silica as an impurity is heated at a reduction temperature with carbon in a proportion at least equivalent chemically to the magnesia, whereby magnesium is liberated as a vapor, the improvement which comprises regulating the composition of the reduction charge by adding thereto at least one of the oxides lime and silica in such proportion that the residue formed on reduction has a fusion temperature below 1700° C. and a composition substantially within the range

	Per cent by weight
CaO	10–57
SiO_2	20–80
Other substances	0–12

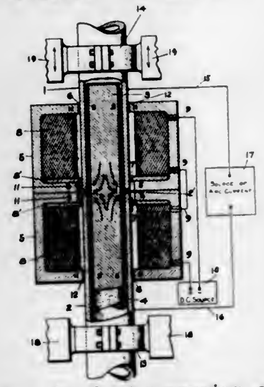
2,286,210
ARC WELDING SYSTEM AND METHOD
Hans Klemperer, Belmont, and Laurence K. Marshall, Cambridge, Mass., assignors to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application January 14, 1941, Serial No. 374,358
22 Claims. (Cl. 219—4)



1. A system for heat-processing a member along and throughout a predetermined extended length of wall thereof, the entire predetermined extended length of which is to be heat-processed, the system having, in combination, means for holding the member, means for holding a second member with a wall thereof disposed adjacent to the first-named wall but separated at all points from the first-named wall by a gap, means for striking an arc in the gap and for maintaining said arc while the walls are held separated from each other, and means operable while the walls are held separated from each other for producing a magnetic field in said gap and configured to cause said arc to assume a predetermined position with respect to said field and for moving said field relative to said extended length for moving the arc in the gap rapidly along and throughout the predetermined extended length to heat the wall of the first-named member rapidly along and throughout the predetermined extended length.

6. A method of heating a member along and throughout a predetermined extended length thereof, the entire predetermined length of which is to be heated, such method comprising striking an arc on a portion of the predetermined length of the member, establishing a magnetic field for moving the arc rapidly along and throughout the predetermined length to heat the member rapidly throughout the predetermined length, and controlling the magnetic field to control the speed of travel of the arc.

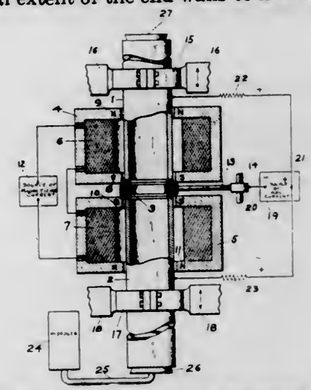
2,286,211
ARC WELDING SYSTEM AND METHOD
John W. Dawson, Auburndale, and Laurence K. Marshall, Cambridge, Mass., assignors to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application October 11, 1940, Serial No. 360,796
4 Claims. (Cl. 219—4)



1. A system for heat-processing a member along and throughout a predetermined extended length of a wall thereof the entire predetermined extended length of which is to be heat-processed, the system having, in combination, means for holding the member, means for holding a second member with a wall thereof disposed adjacent to the first-named wall but separated at all points from the first-named wall by a gap of substantial length, means for striking an arc in the gap while the walls are held separated from each other, and means operable while the walls are held separated from each other for establishing in the gap a magnetic field substantially stationary with respect to the gap and having a substantial component at right angles to the length dimension of the gap to cause the arc to travel in the gap rapidly along and throughout the predetermined extended length to heat the wall of the first-named member rapidly along and throughout the predetermined extended length.

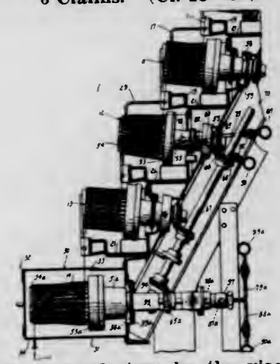
2,286,212
ARC WELDING DEVICE
Elmer J. Gorn, Brookline, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application March 15, 1941, Serial No. 383,598
8 Claims. (Cl. 219—4)

1. A machine for welding together two annular members along their end walls having, in combination, an electrode, means for holding said electrode adjacent the end walls of said members and separated from each of said end walls by a gap, means for striking an arc between said electrode and each of said end walls and for maintaining said arcs while said electrode and walls are held separated, means for moving each of said arcs rapidly along and throughout the peripheral extent of the end walls to heat the end



walls rapidly throughout their peripheral extent, and means for applying pressure to the heated end walls to cause the heated end walls to become welded to each other.

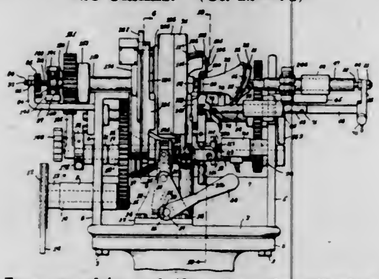
2,286,213
METHOD OF DRYING THREAD OR THE LIKE
Hayden B. Kline and Louis S. Fryer, Cleveland, Ohio, assignors to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware
Application September 29, 1939, Serial No. 297,074
6 Claims. (Cl. 18—54)



1. In the manufacture by the viscose process of multiple filament artificial silk thread having highly uniform shrinkage characteristics, the method of uninterruptedly producing a continuous length of thread characterized by a residual capacity to shrink in the neighborhood of 1% comprising successively performing in one continuous sequence of operations the several steps of extruding viscose into a coagulating bath to form the thread; subjecting the thread so formed to liquid processing treatment; drying the processed thread from the gel state; rewetting the dried thread; storing the rewetted thread under conditions permitting excess liquid to drip therefrom; redrying the thread under conditions such that the residual shrinkage capacity of the thread may be fixed at the desired value, meanwhile supporting the thread in the absence of substantial tension in such manner that the thread is free to shrink virtually without restraint; and, after completion of the re-drying

operations, collecting the thread in package form, each of said steps other than the first and last being performed on the thread while it is traveling endwise in extended form.

2,286,214
MACHINE FOR FINISHING TOP-LIFT EDGES
Oscar L. Lawson, Lynn, Mass., assignor to Lawson-Porter Shoe Machinery Corp., Lynn, Mass., a corporation of Massachusetts
Application March 16, 1938, Serial No. 196,294
28 Claims. (Cl. 12—74)

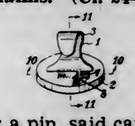


1. In a machine of the class described a pair of aligned members for contact with tread and seat surfaces of a heel, relatively movable to clamp and suspend a heel between them, edge burnishing means disposed substantially in the plane of the top lift of a heel so held and driving means for effecting relative movement between the clamped heel and said burnishing means causing the latter to traverse substantially in such plane the entire periphery of such top lift.

2,286,215
PHOTOGRAPHIC SILVER HALIDE EMULSION
Wesley G. Lowe, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application February 12, 1940, Serial No. 318,559. In Great Britain February 14, 1939
10 Claims. (Cl. 95—7)

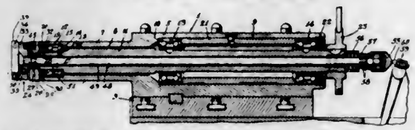
1. A light-sensitive photographic emulsion comprising a silver halide dispersed in a thermal-reversible gel composed of polyvinyl alcohol mixed with a gelling amount of an unsubstituted hydroxy aromatic compound selected from the group consisting of the unsubstituted polyhydric phenols and the unsubstituted dihydric naphthols.

2,286,216
PIN ELEMENT
Robert Mantz, Ozone Park, N. Y., assignor to City Novelty Corporation, New York, N. Y., a corporation of New York
Application April 6, 1940, Serial No. 328,297
3 Claims. (Cl. 24—150)



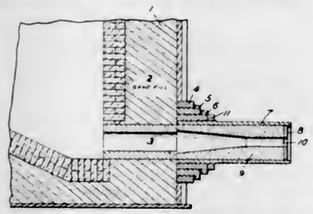
2. A catch for a pin, said catch consisting of a flat base member of plastic material and having a slot formed therein and a metallic member fixedly attached to said base member, said metallic member consisting of a hook-like body portion having spaced apart shoulders formed therein at the lower edge thereof with the lower face of each of said shoulders contacting the upper face of said base member, a foot extending from said body portion at a point between said shoulders and into said slot, and anchoring fingers extending from said foot, each of said anchoring fingers bent at right angles to the long axis of the slot to be flush with the lower face of said base member, said shoulders, foot, and fingers combining to clamp said base member to said body portion.

2,286,217
ROTARY TOOLHEAD
Charles Martin, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application November 27, 1940, Serial No. 367,440
7 Claims. (Cl. 77—3)



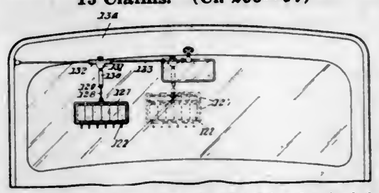
2. A rotary toolhead comprising, in combination, a body adapted for rotation about a fixed axis and for axial reciprocation in a forward direction through a workpiece and then in a reverse direction out of the workpiece, a diametrical notch formed in the front face of said body, a clapper box slidably disposed in said notch for oscillatory movement therein about an axis extending transversely of the axis of said body and located at one side of the axis of said body, a tool mounted in said clapper box and projecting from the free end thereof radially of said box, stop means at the other side of the axis of said body for positively limiting the movement of said clapper box in a rearward direction to define an operative position in which said tool describes a maximum circle of revolution, said clapper box being movable away from said stop means with said tool moving in an arc defining progressively diminishing circles of revolution, spring means tending to urge said clapper box out of operative position, and means extending axially through said body for swinging said clapper box into operative position against the action of said spring means.

2,286,218
POURING SPOUT
James L. Martin, Lowell, Mass.
Application June 25, 1941, Serial No. 399,658
2 Claims. (Cl. 22—79)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A pouring spout for casting comprising a metal sleeve with refractory lining and a press-fitted annular end plate in the discharge end of the sleeve covering the face of the lining thereat.

2,282,219
ANTIDAZZLE DEVICE
Anthony Martinek, Pittsburgh, Pa.
Application July 28, 1938, Serial No. 221,764
13 Claims. (Cl. 296—97)

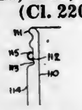


1. A unitary anti-dazzle shield adapted for use before the eyes of a driver of a vehicle and directly in his line of vision, said shield being made up of a plurality of transparent light-obscuring screens, a mounting upon which said screens are disposed in vertical and spaced relation to each other and at substantial oblique angles of the order of twenty-five degrees or more to a transverse plane of said shield approximately normal to the longitudinal axis of said vehicle and so close together in relation to their dimension from front to rear and angular relation to said plane that substantially all light rays approximately parallel to said axis striking and traversing said shield will traverse at least one screen thereof and substantially all light rays striking and traversing said shield at a substantial angle to said line and from the direction opposite that toward which said screens are inclined will traverse a plurality of said screens, and means for attaching said mounting so that it may be disposed directly before the eyes of the driver of said vehicle.

2,286,220
CELLULOSE COMPOSITION MATERIAL
Ralph H. McKee, New York, N. Y.
No Drawing. Application March 4, 1938, Serial No. 193,921
14 Claims. (Cl. 106—173)

9. A hardenable composition for making printing plates comprising, a plurality of cellulose acetate esters of differential viscosity, a resinoid, a small quantity of a plasticizer, and a sufficient quantity of a volatile solvent to render the mass workable, the composition having a viscosity substantially greater than 10 seconds.

2,286,221
SHEET METAL CONTAINER
Augustus L. Merolle, Brooklyn, N. Y., assignor to Empire Metal Cap Co. Inc., Brooklyn, N. Y., a corporation of New York
Application October 11, 1938, Serial No. 234,343
6 Claims. (Cl. 220—10)



1. A container comprising in combination a receptacle comprising a vessel surrounded by a wall set off from and secured to said vessel, said wall having a closure-engaging portion and a lateral projection below said closure-engaging portion and an outer casing surrounding and spaced from said vessel, said casing having its upper marginal portion curled about said projection, said casing having a circumferential groove adjacent and below its said curled upper marginal portion, said groove forming a shoulder on which said lateral projection rests.

2,286,222
INSECTICIDAL COMPOSITION
Clarence L. Moyle and Fred W. Fletcher, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application March 11, 1940, Serial No. 323,388
20 Claims. (Cl. 167—24)

1. An insecticidal composition comprising an organic thiocyanate and a synthetic ether compound having the formula:

$$R—(O—C_nH_{2n})_m—X$$

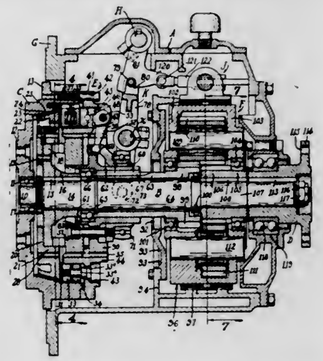
wherein R represents an aromatic radical, n is an integer from 2 to 6, inclusive, m is an integer not greater than 4, and X is selected from the group consisting of chlorine, bromine, iodine, and the hydroxyl radical.

2. An insecticidal composition comprising as active toxicants a material selected from the group consisting of the pyrethrins and rotenone, an organic thiocyanate, and a synthetic ether compound having the formula:

$$R—(O—C_nH_{2n})_m—X$$

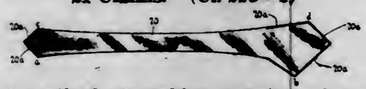
wherein R represents an aromatic radical, n is an integer from 2 to 6, inclusive, m is an integer not greater than 4, and X is selected from the group consisting of chlorine, bromine, iodine, and the hydroxyl radical.

2,286,223
REVERSE GEAR
Arthur T. Nabstedt, Hamden, Conn., assignor to The Snow & Petrelli Manufacturing Company, New Haven, Conn., a corporation of Connecticut
Application January 16, 1940, Serial No. 314,076
24 Claims. (Cl. 74—298)



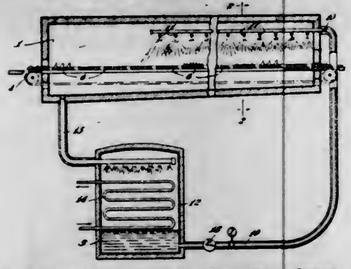
1. In a reversing mechanism, the combination of a shaft, an engine-driven member mounted for rotation with respect to said shaft, said engine-driven member having a conical inner recess, a hub keyed to said shaft, a clutch member movable axially with respect to said hub and coupled thereto and having a conical friction surface adapted to engage that of said engine-driven member, a clutch plate coupled to the engine-driven member and adapted to have face engagement with said first clutch member and to move the same into frictional engagement with said engine-driven member, means disposed concentrically with respect to said shaft for operating said clutch mechanism, and means including a sleeve disposed about said shaft for imparting reverse drive to said shaft.

2,286,224
METHOD AND MEANS FOR MAKING NECKTIES
Valentine Naftali, New York, N. Y., assignor to American Machine & Foundry Company, New York, N. Y., a corporation of New Jersey
Application June 17, 1938, Serial No. 214,253
21 Claims. (Cl. 223—1)



1. A method of making non-turned neckties comprising positioning a cut-to-pattern tie fabric in a templet with the right side of said fabric face down, folding opposite longitudinal edges of said fabric inwardly toward each other so that portions adjacent said edges are in overlapping relationship, transversely corrugating said overlapping fabric portions, sewing together the said overlapping corrugated fabric portions by piercing the said overlapped corrugations with a needle in a direction parallel to the longitudinal axis of the finished necktie, and holding said overlapping corrugated fabric portions spaced from the main body of said fabric during such sewing operation.

2,286,225
FREEZING PROCESS
Harry A. Noyes, Waban, Mass., assignor, by mesne assignments, to Z Pack Corporation, Jersey City, N. J., a corporation of Delaware
Application November 16, 1936, Serial No. 110,964
2 Claims. (Cl. 99—198)

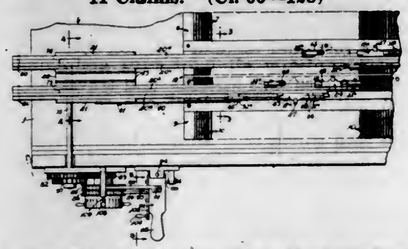


2. A process of quick freezing fresh fruits in loose formation, which comprises flowing a refrigerant sugar solution, of which at least substantially half of the total sugar content is levulose, alternately over cooling means to maintain said solution at a quick freezing temperature of between 2° F. and 25° F. and over the product to be frozen until the said product is substantially frozen, the physical properties of said solution being such that it flows rapidly over said cooling means and over the product and drains rapidly from the surfaces of the said product so as to be continuously replaced by fresh cold solution, with the result that the surface layers of said product are hard frozen almost instantly and before the osmotic effect of the sugar solution on said surfaces has withdrawn juice from the product being frozen to an appreciable extent, said quick frozen product acquiring a protective film of the refrigerant solution which brightens its appearance and protects the product against dehydration during subsequent storage in the warehouse, said refrigerant solution having a concentration not greater than 8 mols and a viscosity of the order of 70 centipoises at temperatures between 2° F. and 25° F.

2,286,226
MERCURATED ARYL-ALKYL KETONES
Anderson W. Ralston and Robert J. Vander Wal, Chicago, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application November 4, 1938, Serial No. 238,888
9 Claims. (Cl. 260—434)

1. Mercurated aryl-alkyl ketones containing at least nine carbon atoms in the alkyl chain, said chain having one of the group consisting of hydroxy and alkyloxy containing from one to five carbon atoms attached to one carbon atom and having mercury attached to an adjacent carbon atom and to a monobasic acid radical whose mercuric salt is soluble.

2,286,227
KNITTING MACHINE AND METHOD
Walter E. Ralston, Delavan, Wis., assignor to The George W. Borg Corporation, Chicago, Ill., a corporation of Delaware
Application May 22, 1939, Serial No. 274,874
11 Claims. (Cl. 66—128)



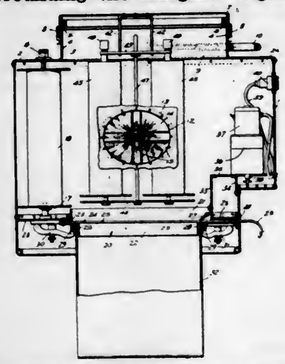
1. In a flat knitting machine, the combination of a bank of needles, a plurality of guides for carrying yarns to said needles, rails supporting the respective guides for movement along the rails, stops on said rails controlling the limits of the guide movements, means supporting said rails for endwise movement, a manually operable member, and mechanism connecting said member and said rails and operable automatically during successive actuations of said member to shift two of said rails in opposite directions in fixed increments correlated with the spacing of said needles.

2,286,228
MODIFIED DICYANDIAMIDE CONDENSATION PRODUCT
Kurt E. Ripper, Bronxville, N. Y., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application December 30, 1939, Serial No. 311,935
5 Claims. (Cl. 260—42)

1. A process which comprises reacting formaldehyde with a mixture containing dicyandiamide and melamine in a molar ratio between about 8:1 and 3:1, the reaction being carried out under alkaline conditions to produce a condensation product which may be polymerized and hardened under alkaline conditions to form a product capable of withstanding the influence of boiling water.

2,286,229
PORTABLE FILM DEVELOPING APPARATUS
William H. Richards, Dayton, Ohio
Application June 10, 1941, Serial No. 397,431
5 Claims. (Cl. 95—91)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a portable apparatus for use in the development of photographic film including a casing having light protected armholes in opposite sides thereof; a removable cover for said casing, a support on said cover for removably supporting film developing reels, an aperture in the bottom of said casing, a gasket on the exterior of said casing surrounding the marginal edges of said

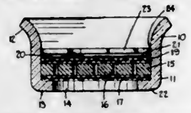


aperture, a container adapted to contain a liquid employed in the developing process, means for removably clamping said container against said gasket in register with said aperture, and a slide in said casing movable to cover or uncover said aperture, and said slide when in the latter position permitting the developing reels to be lowered into the said container.

2,286,230
METHOD OF GASSING RUBBER
Dudley Roberts, New York, and Roger Charles Bascom, Merrick, N. Y., assignors to Rubatex Products, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application August 19, 1937, Serial No. 159,910
2 Claims. (Cl. 260—725)

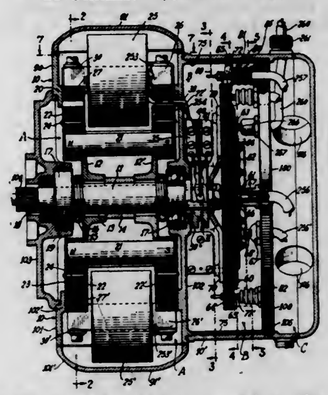
1. In the process of making gas expanded closed cell rubber structures, the step of gassing the rubber with a non-oxidizing mixture of carbon dioxide and nitrogen.

2,286,231
CATALYST UNIT FOR LIGHTERS
George Philip Schmitt, New York, N. Y., assignor, by mesne assignments, to Cardinal Products, Inc., a corporation of New York
Application July 18, 1939, Serial No. 285,129
5 Claims. (Cl. 67—7)



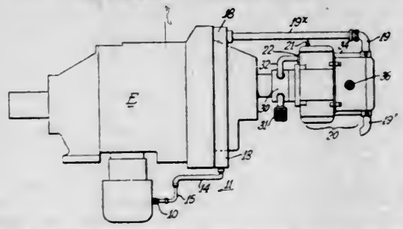
4. In a lighter employing vaporizable fuel and a catalyst for coaction therewith, a holder enclosing said catalyst, a heat and corrosion resisting member disposed above said catalyst, said member comprising a wire screen having closely woven wires the meshes of which being sufficiently fine as to prevent minute fragments of said catalyst from escaping therethrough and foreign matter from being entrapped in said meshes, said member being made of a composition of nickel and chromium, means for retaining said member in said holder, and a guard above said member with which the tip of a cigarette or the like may engage for ignition by said catalyst, said guard extending over the face of said screen.

2,286,232
MAGNETOELECTRIC MACHINE
Lloyd H. Scott, Garden City, N. Y., assignor to The Seymour Corporation of Delaware, Seymour, Conn., a corporation of Delaware
Application January 14, 1941, Serial No. 374,324
18 Claims. (Cl. 171—209)



1. In a magneto-electric machine, the combination comprising a casing formed with segregating chambers, a structure stationarily mounted in one of said chambers, a shaft journaled in said chamber, an inner structure mounted on said shaft and rotatively arranged with respect to said stationary structure, magnetizing means mounted on said inner structure together with magnetizable elements whereby a plurality of portions of magnetic circuits are provided, a cooperating magnetic circuit portion including a core disposed in said stationary structure, magneto windings on said core, breaker and distributor mechanisms in a second chamber including rotatable elements rigidly secured in a desired phase relation on said shaft, an insulating disk stationarily mounted and arranged to close said second chamber; and electrode supporting bushings, adapted to provide anchorage for distributing cables, demountably disposed on said disk in said second chamber and arranged to receive cables from without said second chamber.

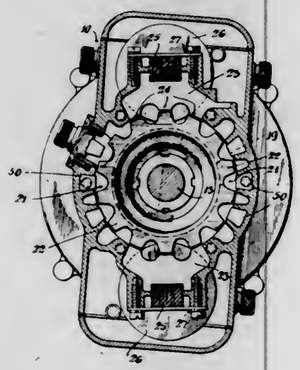
2,286,233
IGNITION SYSTEM FOR AIRPLANE ENGINES AND THE LIKE
Lloyd H. Scott, Garden City, N. Y., assignor to The Seymour Corporation of Delaware, Seymour, Conn., a corporation of Delaware
Application April 2, 1941, Serial No. 386,422
16 Claims. (Cl. 123—148)



1. A magneto-electric machine, comprising, in

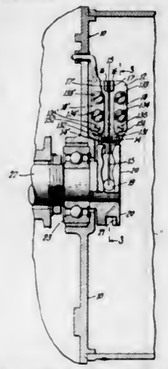
combination, a casing therefor having a plurality of segregating compartments, a functioning unit component of a magneto in each of said compartments, and means for supplying fluid dielectric under pressure to each of said compartments.

2,286,234
MAGNETOELECTRIC MACHINE
Lloyd H. Scott, Garden City, N. Y., assignor to The Seymour Corporation of Delaware, Seymour, Conn., a corporation of Delaware
Application June 21, 1941, Serial No. 399,078
6 Claims. (Cl. 171—209)



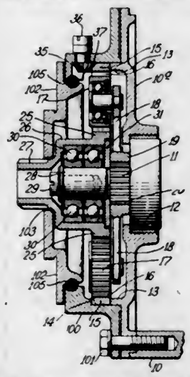
1. In a magneto-electric machine, the combination with a casing, of a cylindrical structure rotatably mounted therein provided with magnetizing means and a pair of axially spaced peripherally disposed flux directing pole pieces one at each end of said structure with each notched at a plurality of points about its outer circumference to provide a plurality of spaced apart local magnetic pole formations each having a flux directing face, a pair of axially spaced flux directing pole pieces having similar spaced apart pole formations stationarily disposed in said casing in radial spaced relation to said rotatably mounted pole formations and extending predetermined arcuate distances about said cylindrical structure for coincident cooperation with said rotatably mounted pole pieces, magnetic core connecting said stationary flux directing pole pieces, magneto windings carried by said core and arranged to be linked by magnetic flux emanating from said magnetizing means whereby voltage is induced therein by the cyclic recurrence of flux maxima and minima, the total area of the flux directing faces of rotatable pole formations which simultaneously are in coincidence with said stationary pole formations being sufficiently large as conveniently to accommodate maximum flux emanating from said magnetizing means for linkage of said windings, and a plurality of similarly spaced apart magnetic shunt bars axially disposed in said casing, each having a length such as to span said rotatable pole pieces in similar radial spaced relation thereto whereby flux is drawn from linkage with said magneto windings when said rotatable pole formations are 180 degrees electrically out of phase with the position of maximum flux linkage of said magneto windings, said magnetic shunt bars having a total magnetic cross-section at least about equal to that of said core.

2,286,235
CIRCUIT BREAKING MECHANISM
Lloyd H. Scott, Garden City, N. Y., assignor to The Seymour Corporation of Delaware, Seymour, Conn., a corporation of Delaware
Application July 31, 1941, Serial No. 404,820
18 Claims. (Cl. 200—30)



1. In a circuit breaking mechanism, the combination with a rotating member, of a stationary support, a breaker arm structure mounted at one end on said support for oscillatory movement and provided at its opposite end with a cam follower, and a cam on said rotating member having means for imparting movement positively in two opposite directions to said cam follower, said breaker arm structure being provided intermediate its ends with a contact member arranged to engage with and disengage from a contact mounted on said support when said breaker arm structure is oscillated.

2,286,236
GEARING MECHANISM FOR EFFECTING SPEED CHANGES
Lloyd Hoyt Scott, Garden City, N. Y., assignor to The Seymour Corporation of Delaware, Seymour, Conn., a corporation of Delaware
Application October 1, 1940, Serial No. 359,196
10 Claims. (Cl. 123—149)

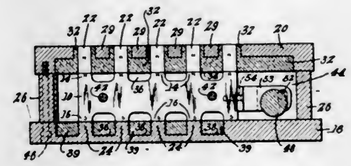


1. In a speed change gearing, the combination with a rotatable member provided with a sun gear, of a spider provided with a planetary gearing in operative association with said sun gear, a second rotatable member in engagement with said spider, a third member normally stationary and provided with a ring gear in orbital association with said planetary gearing, said gearing when operatively assembled having radii proportioned to effect a desired speed change, a casing for supporting said gear assembly and provided with a groove in which said ring gear member may be moved arcuately, said casing having a peripherally grooved opening and a complementary grooved closure portion perforated to pass said first-named rotatable member, and a vibration absorbing member disposed in said grooves and forming a joint which holds the parts rigidly in desired angular adjustment.

2,286,237
COPPER POWDER
John D. Shaw, Glen Rock, and Walter N. Revock, Hillside, N. J., assignors to Metals Disintegrating Company, Inc., Elizabeth, N. J., a corporation of New Jersey
No Drawing. Application June 15, 1940, Serial No. 340,836
1 Claim. (Cl. 75—0.5)

Copper powder, the particles whereof have a surface alloy coating of the copper with other metal more electropositive than copper melting between 200° and 500° C., the proportion of such other metal to the copper being of the order of about 0.25% to 1.00%.

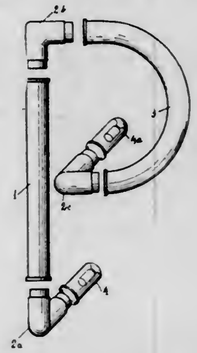
2,286,238
MAGNETIC CHUCK
Frank L. Simmons, Woonsocket, R. I.
Application December 10, 1938, Serial No. 245,047
11 Claims. (Cl. 175—367)



1. A magnetic chuck comprising a support having a set of magnetically connected contact surfaces lying in a lower plane and separated by non-magnetic gaps, a work plate opposed thereto having two sets of alternately arranged, spaced, work supporting magnetic pole pieces, one set having spaced contact surfaces in an upper plane separated by non-magnetic gaps, a permanent bar magnet in a magnetic circuit with said pole pieces and having its poles at its top and bottom respectively which terminate in parts forming sets of upper and lower spaced polar faces lying in said two planes, the distance between each two adjacent contact surfaces in each plane being greater than the width of each adjacent polar face, said parts being arranged for sliding the polar faces from engagement with said contact surfaces to positions adjacent to said gaps where all of the polar faces of the magnet are isolated from the pole pieces and each other, and means for sliding said parts and their polar faces relative to said contact surfaces.

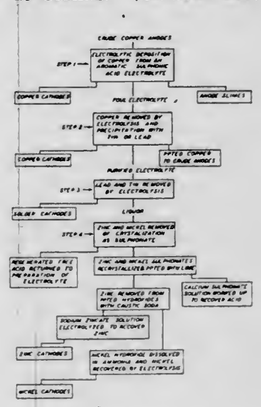
2,286,239
LUMINOUS TUBE
Imre Sors, Budapest, Hungary
Application March 25, 1939, Serial No. 264,240
In Hungary September 15, 1938
4 Claims. (Cl. 176—122)

1. In luminous signs having gas filled tubes, a shaped, continuous electrical discharge tube of glass formed of individual profiled tubular glass sections joined together with intermediate tubular glass fittings, the said profiled sections and fittings being so joined as to form gas tight



joints and a shaped continuous discharge tube of glass and being so arranged relative to each other as to give the desired shape to the continuous tube so formed, and said shaped, continuous tube containing in the visible, luminous portion thereof at least one of said glass fittings.

2,286,240
REFINING OF NONFERROUS METALS
James R. Stack, Staten Island, N. Y., assignor to Nassau Smelting & Refining Company, Incorporated, New York, N. Y., a corporation of New York
Application March 21, 1938, Serial No. 197,209
19 Claims. (Cl. 204—106)

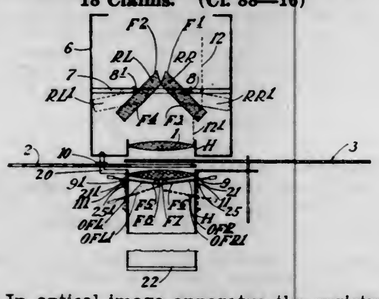


1. The method of separating metals from tin-containing metallic materials consisting principally of copper, which comprises electrolyzing anodes of such a material in a bath having a sulphonic acid as principal electrolytic agent to deposit substantially pure copper, and causing an oxygen-bearing oxidizing agent tending to promote precipitation of tin as anode slimes to be present in the bath during the electrolysis in sufficient amount to effect the precipitation as anode slimes of a material quantity of tin which would otherwise be held in solution.

2,286,241
REFINING OF NONFERROUS METALS
James R. Stack, New Dorp, Staten Island, N. Y., assignor to Nassau Smelting & Refining Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application August 5, 1938, Serial No. 223,215
19 Claims. (Cl. 204—106)

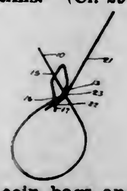
1. The method of separating metals from tin-containing metallic materials consisting principally of copper, which comprises electrolyzing anodes of such a material in a bath having an aromatic sulphonic acid as principal electrolytic agent to deposit substantially pure copper, and causing material selected from the group consisting of iron and zinc to be in solution in the bath during the electrolysis in sufficient amount to effect the holding in solution of a material quantity of tin which would otherwise be precipitated as anode slimes.

2,286,242
OPTICAL IMAGE SYSTEM
Ivan Melville Terwilliger, Altadena, Calif.
Application August 29, 1938, Serial No. 227,282
18 Claims. (Cl. 88—16)



1. In optical image apparatus the registration system of image elements in plastic contour form respecting a depth plane of a scene in space which comprises an image reception area, an objective, forward positioned means increasing laterally the virtual spread of simultaneously effective sight viewpoints of the scene, and a thin refractor having plane faces, the refractor being positioned, substantially, vertically transverse an incomplete portion of the lateral extent of the objective, the device superposing a plurality of laterally complementary image elements in harmonious plastic structure in a figure at the image reception area.

2,286,243
SEAL FOR COIN BAGS AND THE LIKE
Lucius B. Wheeler, Newton, Mass.
Application February 20, 1941, Serial No. 379,853
3 Claims. (Cl. 292—326)

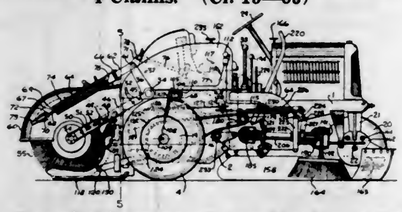


1. A seal for coin bags and the like, of one-piece all-metal construction comprising a narrow strap section and a wide seal section, said seal section adapted to be folded on a medial line and having a plurality of slots thru one of which the strap section is drawn to form a housing whose sides are composed of the upper and lower halves of the seal section bent on scored lines to bulge outwardly to a substantially tubular, diamond-shaped configuration with at least one slot disposed in each of the sides; the strap section then being flexed to pass thru the slots in the opposite walls of the housing and transversely therethru so that a portion of the strap is enclosed by the housing.

2,286,244
ASPHALT PREPARATION
Charles H. Whitacre, Cleveland, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application December 9, 1940, Serial No. 369,319
10 Claims. (Cl. 106—232)

1. A process of treating asphalt, which comprises incorporating with asphalt material small amounts of wood liquid rosin acids and a sulphate of a metal from the alum-forming metals aluminum and iron.

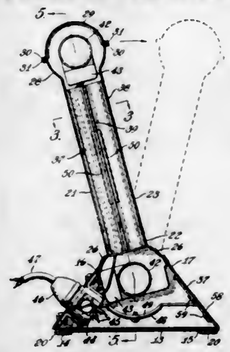
2,286,245
STREET SWEEPING MACHINE
Fred D. Wilson and Joseph Antos, Aurora, Ill., assignors to Western-Austin Company, Aurora, Ill., a corporation of Illinois
Application May 10, 1939, Serial No. 272,858
4 Claims. (Cl. 15—83)



1. In a street sweeper, in combination, a frame supported for movement, a material receptacle having a movable bottom and end rotatably mounted on the sides thereof mounted on said frame, a rotatable shaft projecting thru and mounted on the sides of said material receptacle, arms having their forward ends rigidly mounted on said shaft and the rear ends provided with bearings, a rotatable broom mounted in said bearings, a broom cover attached to said arms, a second pair of arms having one end rotatably mounted on said shaft and a material deflector mounted on the opposite end, means connecting said broom cover and said second pair of arms to maintain a constant relation between said material deflector and said broom, means mounted on said frame and material receptacle to raise and lower said broom, broom cover and deflector and move said movable bottom and end as one unit, an operator's station on said frame, control means at said operator's station to control the raising and lowering of the said broom, broom cover and deflector and the moving of said movable bottom and end.

2,286,246
DISPLAY UNIT
Alton B. Yearta, Winter Haven, Fla., assignor of one-third to Ross H. Mooty, Sr., and one-third to H. E. Cornell
Application October 18, 1940, Serial No. 361,791
9 Claims. (Cl. 40—132)

1. In a display unit, a housing having an open top and an opening in one of its sides, a transparent mirror mounted to close the open side of the housing, a true mirror mounted in the housing rearwardly of and in spaced parallel relation with the said transparent mirror, a transparent sheet having indicia thereon removably mounted within the housing in substantially equi-spaced parallel relation with the said mirrors, lamp means removably mounted within the housing, the said lamp means being arranged across the



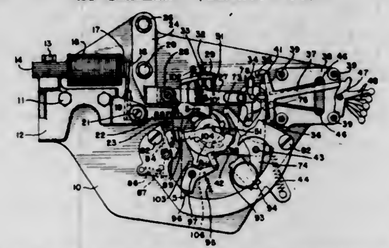
open top of the housing in edgewise spaced relation with the said transparent sheet to direct rays of light between the sheet of the transparent mirror and also between the sheet and the true mirror, and a cover detachably mounted on the housing for closing the open top thereof, the arrangement being such that the cover and lamp may be easily removed to permit the transparent sheet to be easily inserted in or removed from the housing through the said open top.

2,286,247
DISPLAY DEVICE
Alton B. Yearta, Winter Haven, Fla., assignor of one-third to Ross H. Mooty, Sr., and one-third to H. E. Cornell
Application May 12, 1941, Serial No. 393,141
10 Claims. (Cl. 272—13)



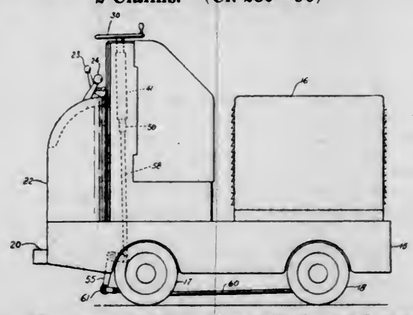
1. A display device comprising a support having an opening, a transparent mirror for closing the opening in the said support, a housing having aligning front and rear openings arranged rearwardly of the transparent mirror and with the said front opening disposed in register with the opening in the support, a mirror for closing the rear opening of the housing, and connective means for holding the support, housing and mirrors in the described relation with each other, said means being easily disassembled to permit various sized housings to be used whereby to regulate the distance between the said first and second mentioned mirrors.

2,286,248
PRINTING TELEGRAPH APPARATUS
Walter J. Zenner, Des Plaines, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application November 13, 1936, Serial No. 110,684
29 Claims. (Cl. 178—33)



1. In a machine, a cam controlled mechanism, a power driven cam, means for arresting said cam in invariable position with respect to the controlled mechanism, means for tripping said arresting means, means for operating said tripping means, and means for varying the instant of the effective operation of said tripping means on said arresting means by its operating means.

2,286,249
STEERING MECHANISM
Edward J. Abbe, Cleveland Heights, Ohio, assignor to The Elwell-Parker Electric Company
Original application May 17, 1940, Serial No. 335,797. Divided and this application November 16, 1940, Serial No. 365,898
2 Claims. (Cl. 280—96)

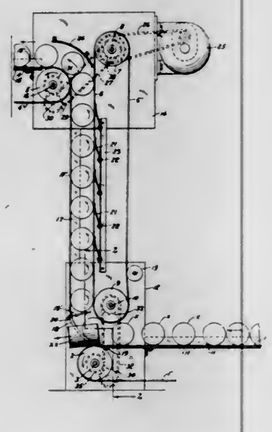


1. The combination of a vehicle, and means for steering said vehicle, said means comprising a block pivotally carried by said vehicle, a stub shaft rotatably journaled in said block, an interiorly threaded tubular element one end of which is adapted for projecting over one end of said stub shaft, said ends being drivingly secured together, a threaded shaft adapted for engaging said interior threads, a lever pivotally carried by said vehicle, said threaded shaft and said lever being pivotally connected, a wheel for steering said vehicle, and means interconnecting said lever and said wheel whereby rotation of said stub shaft steers said vehicle.

2,286,250
CAN CONVEYING AND ELEVATING APPARATUS
John Albertoli, San Francisco, Calif.
Application November 26, 1940, Serial No. 367,186
1 Claim. (Cl. 198—160)

Round can handling equipment comprising an

upwardly extending fixed guide or track along which the cans are adapted to be rolled, an endless belt running over upper and lower pulleys arranged with one run of the belt extending along said guide and in contact with a row of cans for rolling the cans upward along said guide, a laterally extending belt conveyor adapted to carry a row of cans directly under and feeding the cans under said lower pulley in position for engagement by its belt for rolling upwardly thereby along said fixed guide, a belt conveyor extending laterally from adjacent the upper end of said guide directly receiving the cans

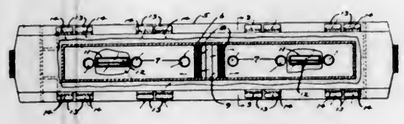


therefrom, and means driving and synchronizing the movement of both conveyors and said upwardly extending belt comprising pulleys for said belt conveyors respectively adjacent said upper and lower pulleys, sprockets operatively connected respectively with each pulley, an endless chain for the upper sprockets and an endless chain for the lower sprockets, said chains each looped around one of the sprockets and an idler sprocket at the other end of the chain loop positioned to bring an intermediate part of the chain strand into operative engagement with a portion of the adjacent sprocket.

2,286,251
INTERPOLYMERS AND PREPARATION OF SAME
Harold W. Arnold, Marshallton, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 5, 1940, Serial No. 338,892
9 Claims. (Cl. 260—78)

8. An interpolymer of a polymerizable compound from the group consisting of the alpha-halogen substituted acrylic acids, and esters, amides, and nitriles thereof, interpolymerized with an ester of an alpha, beta-ethylene dicarboxylic acid with a member of the class consisting a saturated mono hydric alcohols and monohydric phenols, the resulting interpolymer containing not more than 40% by weight of the ester of the dicarboxylic acid and being characterized by its stability to heat and light.

2,286,252
AIR CONDITIONING SYSTEM UTILIZING REFRIGERATION
Carl O. Bergstrom, Boston, Mass., assignor to B. F. Sturtevant Company, Boston, Mass.
Original application July 13, 1939, Serial No. 284,262, now Patent No. 2,258,565, dated October 7, 1941. Divided and this application May 8, 1940, Serial No. 333,918
3 Claims. (Cl. 98—10)



1. An air cooling system for a passenger vehicle comprising a longitudinal duct overhead the passenger space, means for admitting outdoor air at a plurality of points into said duct, means for admitting air from the passenger space into said duct adjacent the longitudinal center thereof, said duct having a plurality of longitudinally spaced apertures in its lower wall, and a plurality of fans communicating with said duct through said apertures and with the passenger space for drawing outdoor air through said first mentioned means and recirculated air through said second mentioned means and for discharging it into the passenger space.

2,286,253
CORNER BRUSH FOR PAPERHANGERS
Julius H. Boutte, New Iberia, La.
Application June 16, 1941, Serial No. 398,325
1 Claim. (Cl. 15—160)

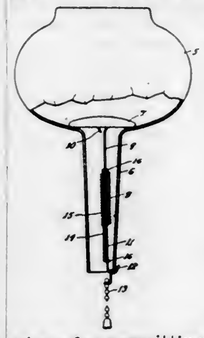


A corner brush comprising an elongated head of right angle shape in cross section to provide a pair of elongated parts which extend at right angles to each other and have their outer faces smooth, one end of the two members being beveled outwardly and bristles connected with the beveled ends of the two members with said bristles extending downwardly and outwardly and a handle fastened to the head and extending from the space formed by the two parts thereof, the outer faces of the two members of the head being free of bristles.

2,286,254
SPRING ARRESTER
Rene J. Brault, Bristol, Conn., assignor to The Silex Company, Hartford, Conn., a corporation of Connecticut
Application September 15, 1939, Serial No. 295,090
2 Claims. (Cl. 267—74)

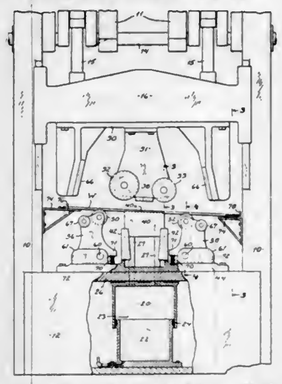
1. For a spring comprising a plurality of coils and extensions at each end thereof, an arrester

including a bar extending through said coils, and loops at the ends of said bar slidably encircling



the said extensions for permitting the stretching of said spring to a pre-determined extent.

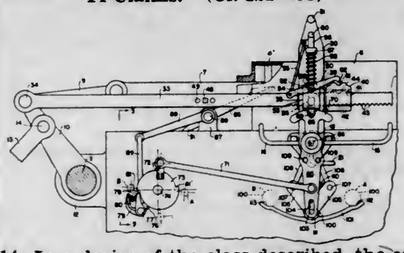
2.286.255
TUBE BENDING APPARATUS
Everett E. Brooks, Cleveland Heights, Ohio, assignor to The Murray-Ohio Mfg. Co., Cleveland, Ohio, a corporation of Ohio
Application April 16, 1940, Serial No. 329,916
17 Claims. (Cl. 153—33)



15. In a tube bending machine of the reciprocating type, the combination of a tube clamping means adapted to shift as the tube is being bent with a reciprocating ram of the machine and with a depressible base means incorporated in the base of the machine and comprising a grooved clamping member on the ram and a grooved clamping member operatively supported by the depressible base member and pairs of grooved tube bending rollers mounted to have the grooves thereof in alignment with the grooves in the clamping members and some of the rollers being adapted to move in unison with the clamping movement of the ram and other of the rollers being moveable relative to the ram during a predetermined portion of the work clamping movement of the ram and means movable by the ram for actuating said last named rollers toward said first-named rollers during said predetermined portion of the ram movement.

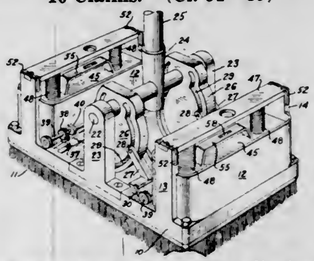
16. In a metal bending machine, the combination of a frame structure, a reciprocating ram, work clamping means, a depressible, resiliently cushioned base supporting the clamping means, a work clamping means carried by the ram for clamping work to the work clamping means on said cushioned base, work bending means carried by the ram for acting upon the work after the ram has clamped the work to the base, a bending roller supported on a pivoted arm disposed to cooperate with the work bending means on the ram, means for swinging said arm toward the ram after the work bending means on the ram has passed below the center of the roller on said arm, and means for urging said arm away from the ram after the ram has been elevated.

2,286,256
HYDRAULIC MECHANISM
Theophilus Brown, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application February 7, 1941, Serial No. 377,838
14 Claims. (Cl. 121—38)



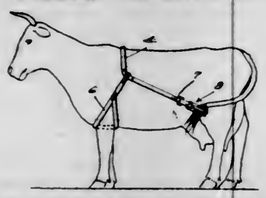
14. In a device of the class described, the combination of a power actuated movable member, a manually operable control lever associated therewith and shiftable from a neutral position to effect a movement of said member in a certain direction, a stop engageable with said lever and operative to limit the extent of movement of said member, a handle mounted on said lever and movable relative thereto, and means for optionally connecting said handle with said stop for shifting the latter and thereby changing the terminal position of said member.

2,286,257
WAX APPLICATOR
Joseph E. Richards, San Francisco, Calif., assignor of one-half to Chester McPhee, San Francisco, Calif., as trustee
Application March 1, 1940, Serial No. 321,679
10 Claims. (Cl. 91—39)



9. In a wax applicator, an applicator head, a handle having pivotal connection therewith for oscillation with respect thereto, a pair of wax hoppers carried at opposite ends of the applicator head, means causing discharge of wax from the hoppers, means operable to cause successive charges of wax to be fed to the surface to be treated as discharged from said hoppers, said last named means having an operative connection with said handle and being actuated upon oscillation thereof.

2,286,258
SANITARY TAIL TIE
Louis Bubenic, Emery, Wis.
Application March 27, 1940, Serial No. 326,252
3 Claims. (Cl. 119—105)



1. A cow's tail holder comprising a strap including a pair of loops adapted for engaging the respective front legs of the animal and a connecting portion extending across the back of the animal, a rearwardly extending strap having one end attached to said first named strap and a tail engaging clamp secured to the other end of said last named strap.

2,286,259
MANUFACTURE OF COATED PAPER
James H. Cagle, Aurora, Ill., assignor to Glenn Davidson
No Drawing. Application February 20, 1940, Serial No. 319,915
5 Claims. (Cl. 117—83)

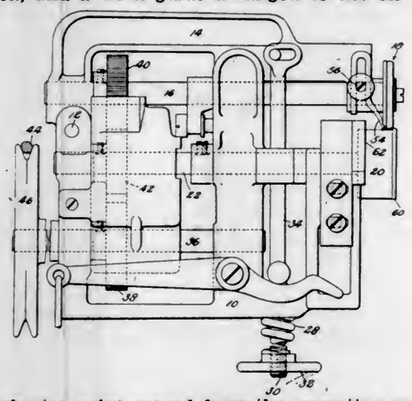
1. In a process of making coated paper, supplying a vegetable proteinous finish coating of soya bean proteinous material out of contact with the cellulose of the paper by first applying to the cellulose a coating of starch, drying the same at least in part, then applying to this another coating of starch, and before the latter is dry applying a top coating of soya bean proteinous material and finely divided mineral filler.

2,286,260
PACKING MATERIAL
Samuel C. Carter, Los Angeles, Calif.
No Drawing. Application October 18, 1940, Serial No. 361,744
5 Claims. (Cl. 260—41)

2. Packing material for use in bulk or in molded form comprising a conformable mass of cured finely divided polymerized chloroprene with a small amount of non-drying oil, small soft metal particles in the form of flattened shot distributed throughout said mass and neoprene cement for binding together the finely divided chloroprene, there being a greater quantity by weight of shot than there is chloroprene.

2,286,261
MACHINE FOR APPLYING PRESSURE TO SHOE PARTS
Ernest Casavant, Brockton, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application April 30, 1940, Serial No. 332,527
9 Claims. (Cl. 12—52)

1. In a machine for cement attaching two work pieces, the combination with a work-engaging roll of a work-pressing roll characterized by a work-engaging surface non-complemental to that portion of the work which it contacts, said work-engaging surface having an offset portion constructed and arranged to apply relatively heavy pressure along a determinate area of a work piece and having a portion constructed and arranged to apply relatively light pressure along an area adjacent to the first-mentioned area, and a work guide arranged to act on the

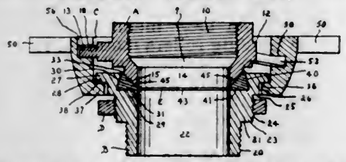


work at a point spaced from the operating point of said rolls, said work guide having a relatively thick portion constructed and arranged to hold two work parts away from each other as they approach the operating point.

2,286,262
COLORING WITH VAT DYES AND COMPOSITION THEREFOR
Earl W. Clark, Buffalo, N. Y., assignor to Allied Chemical & Dye Corporation, a corporation of New York
No Drawing. Application November 4, 1938, Serial No. 238,811
7 Claims. (Cl. 8—70)

1. A vat dye composition for use in coloring cellulosic textile material by a process in which a paste containing a vat dye is applied to the material, comprising a vat dye and for each 100 parts by weight of said vat dye not more than 450 parts by weight of an organic polyamine of the following general formula $H_2N—R—NH_2$, wherein R represents a radical selected from the group consisting of aliphatic hydrocarbon radicals and aliphatic hydrocarbon radicals interrupted by an NH group.

2,286,263
QUICK ACTING COUPLING
Ralph B. Comins, Lowell, Mass.
Application April 25, 1939, Serial No. 269,887
3 Claims. (Cl. 285—177)

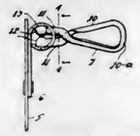


1. In a quick acting coupling, the combination of a fixed male member having an annular tapered gasket face at one end, a bore extending through the gasket face and through the other end, such male member having three or more outwardly extending lugs; with a substantially tubular axially movable female member having on the outside an annular coupling ring holding flange with a face in a plane perpendicular to the axis, and on the inside a bore from which an annular gasket channel extends outwardly, said gasket channel having a base face and an outside substantially unbroken inwardly tapered face to retain a gasket; a gasket of triangular cross section, with approximately equal unbroken sides, made of compressible wear resisting material positioned in the gasket channel, having a tapered face engaging the male member tapered gasket face but of greater width than said face; and a turnable coupling ring having an annular flange extending inside the coupling ring holding flange, and outwardly extending lug channels to receive and hold the lugs, each channel including an open passage for each lug from the end and a passage having an inclined top face to pull the members together when the coupling ring is turned, whereby the gasket is squeezed axially without surface rubbing between the base face and the male member tapered gasket face.

2,286,264
POLYMERIZATION PRODUCT OF ALPHA-CHLOROACRYLIC COMPOUNDS AND PREPARATION OF SAME
John William Croom Crawford, Frodsham, and Nancy McLeish, Runcorn, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application April 29, 1939, Serial No. 270,900. In Great Britain April 30, 1938
1 Claim. (Cl. 260—84)

A clear and transparent plastic composition comprising an interpolymer of methyl-alpha-chloroacrylate with vinyl acetate, said interpolymer containing from 10 to 30% of vinyl acetate.

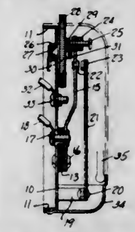
2,286,265
KEY RETAINING MEANS
Joseph C. Davio, Agawam, Mass.
Application June 22, 1940, Serial No. 341,974
9 Claims. (Cl. 70—456)



1. A key retainer comprising a case having a support, a slot of uniform width in said support, a hook, an enlarged portion on said hook for swivelly mounting the same to said support by means of said slot, and means comprising the division of said enlarged portion on a line extending crosswise to said hook for permitting said enlarged portion to be separated by forcing the sides of said hook inwardly to permit passage of said head through said slot to connect said hook to said support.

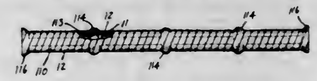
2,286,266
THERMOSTAT
Ralph W. De Lancey, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a corporation of Connecticut
Application February 15, 1940, Serial No. 318,994
12 Claims. (Cl. 200—138)

1. A room thermostat comprising a supporting plate adapted to be secured to a wall, a rotatable, plate-supported member, a contact spring secured to the plate forwardly of the plate and having its free end biased rearwardly toward the rotatable member, a bimetallic thermal element secured to the base with its free end disposed in front of the contact spring so as to be in open air and movable relative to the spring with change in temperature, means to insulate the thermal element from the contact spring, and means to adjust the spacing of the thermal element and the contact spring including cam means effective



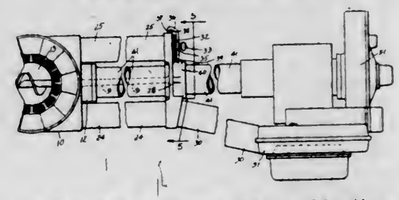
in response to the turning of the rotatable member for varying the flexure of the contact spring, the spring being in a fixed position in each adjustment of the cam means and forming a fixed stop for the thermal element when moved into contact making position.

2,286,267
PLYWOOD TUBING
Cyril Farny, St. Charles, Ill., assignor to The Rudolph Wurlitzer Company, Cincinnati, Ohio, a corporation
Application July 25, 1940, Serial No. 347,382
2 Claims. (Cl. 217—1)



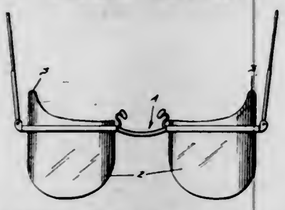
1. A tubular multi-ply structure formed of wood veneer strips spirally wound in opposite directions one upon the other, said winding being formed with an annular enlargement to provide an internal recess, and a localized reinforcing member seated within said formed recess in interlocking engagement with said strips.

2,286,268
LINE DRIVE AND FEED FOR STOKERS
Hurshel H. Fitch, Auburn, Ind., assignor to Auburn Foundry, Inc., Auburn, Ind., a corporation
Application May 21, 1938, Serial No. 209,278
3 Claims. (Cl. 110—45)



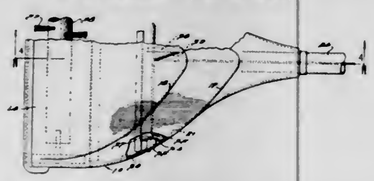
1. In a stoker structure, the combination with a retort device, an elongated tube supported at one end thereby and projecting therefrom, a worm therein, and an elongated air supply tube similarly supported by and projecting from the device, of a singular outboard bearing type support having one end carried by the device and having means remote from the device connecting to both tubes for supporting and maintaining same in spaced relation to each other remote from the device.

2,286,269
EYESHADE
James A. Gilmartin, Scranton, Pa.
Application January 22, 1941, Serial No. 375,490
1 Claim. (Cl. 2—12)



An eye shade of the class described comprising a spectacle frame with the upper portions of the eye members having arcuate slots therein extending from the front faces of the eye members through the rear faces thereof and translucent shade members of flexible material passing through the slots with portions extending forwardly beyond the eye members and other portions extending rearwardly to engage the forehead of a user, each shade member having a rear extension at its outer side to engage the temple of the user and each shade member being normally flat and of a size to be placed in a case of a spectacle frame.

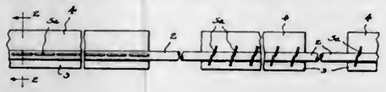
2,286,270
CARPET SWEEPER
Alfred H. Haberstump, Detroit, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware
Application May 4, 1938, Serial No. 205,907
7 Claims. (Cl. 15—41)



1. In a carpet sweeper a casing having an opening therein, a handle fixedly secured to said casing, a rotatable sweeping brush journaled on said casing adjacent said opening on an axle at substantial right angles to said handle, wheels on said axle for driving said brush a substantial portion of which projects through said opening, and means pivotally carried by the casing at said opening for housing a portion of said projecting portion of said brush and wheels, said means having a smaller opening through which said brush and wheels project for engagement with the object to be swept and said means being rotatable to enable contact to be made between the brush and the object to be swept for different angular positions of said casing and handle relative to said object.

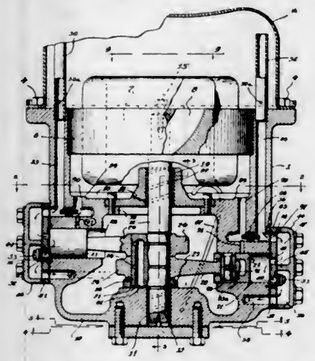
2,286,271
HEAT TRANSFER DEVICE
William W. Higham, Detroit, Mich., assignor to Universal Cooler Corporation, Detroit, Mich., a corporation of Michigan
Application March 7, 1940, Serial No. 322,689
11 Claims. (Cl. 257—149)

1. A heat transfer device comprising, a length of metal stock having a tubular formation fashioned into a plurality of spaced runs with the runs connected by reversely bent parts of the stock, said stock having flanges the runs thereof positioned so that the flanges extend into the spaces between runs and being free of said flanges at the bends, said flanges on the runs



being severed transversely at a plurality of locations to provide wings spaced longitudinally of the stock, and the wings on adjacent runs extending toward each other crosswise of the space between adjacent runs, said wings being fashioned into an angular position for deflecting and setting up turbulence in the ambient fluid.

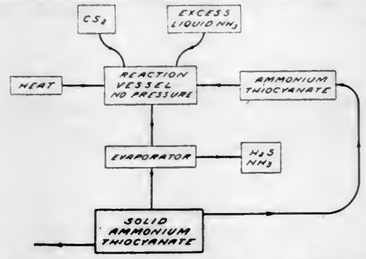
2,286,272
SEALED COMPRESSOR
William W. Higham, Detroit, Mich., assignor to Universal Cooler Corporation, Detroit, Mich., a corporation of Michigan
Application April 10, 1940, Serial No. 328,849
13 Claims. (Cl. 230—206)



1. In a refrigerant compressor of the sealed type, means forming a sealed chamber, a substantially vertically disposed crank-shaft in the chamber, a substantially horizontally disposed cylinder wtih a piston therein, a connecting rod substantially horizontally disposed and pivotally connecting the crank and piston, means supporting the end of the connecting rod which surrounds the crank for taking the vertical load thereof, and a counter-balancing weight on the connecting rod opposite the part which extends to the piston for placing the center of gravity of the connecting rod within the confines of the supporting means whereby the connecting rod is gravitationally stable to thereby eliminate gravity thrust on the piston.

2,286,273
PRODUCTION OF AMMONIUM THIOCYANATE
William H. Hill, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application August 25, 1939, Serial No. 291,815
5 Claims. (Cl. 23—75)

1. A method of producing ammonium thiocyanate from liquid carbon bisulfide and liquid ammonia which comprises reacting the materials at temperatures above 35° C., evaporating the

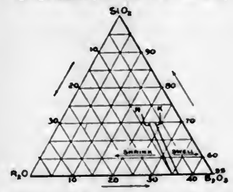


liquid product and recovering the solid ammonium thiocyanate.

2,286,274
RECOVERY OF SOLID FERRICYANIDES
William H. Hill, Mount Lebanon, Pa., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application December 5, 1939, Serial No. 307,601
1 Claim. (Cl. 23—77)

A method of recovering a ferricyanide of an alkali metal or ammonium from a concentrated aqueous solution thereof, which comprises dissolving ammonia therein until a concentration thereof of not less than 50% is reached from which ferricyanide is precipitated, and separating the latter in solid form from the solution.

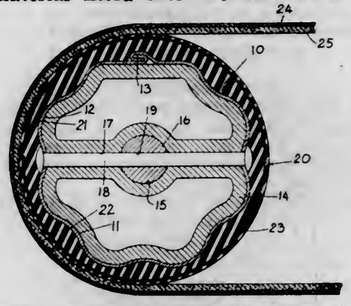
2,286,275
METHOD OF TREATING BOROSILICATE GLASSES
Harrison P. Hood and Martin E. Nordberg, Corning, N. Y., assignors to Corning Glass Works, Corning, N. Y., a corporation of New York
Application September 10, 1940, Serial No. 356,228
5 Claims. (Cl. 49—79)



5. The process which includes melting a glass comprising approximately 62.7% SiO_2, 6.6% Na_2O, 3.5% Al_2O_3 and 26.9% B_2O_3, fabricating the glass into a fixed shape, heating the article at about 580° C. for about 3 hours, cooling it at the rate of about 25 degrees per hour to below 550° C., then cooling it more rapidly to room temperature, and leaching the heat treated article in an acid solution.

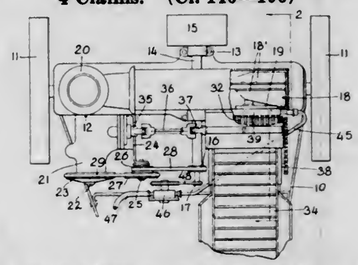
2,286,276
ROLLER
Edwin F. Huddle, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application December 19, 1939, Serial No. 310,036
1 Claim. (Cl. 74—230.7)

A roller comprising a relatively long sheet-metal tube, a plurality of relatively short center members fitting within the tube for rotation therewith and spaced axially thereof, and a plurality of relatively short driving sleeves of resilient material fitted over the tube for rotation



therewith and spaced axially thereof and alined respectively with the center members.

2,286,277
MATERIAL REDUCING APPARATUS
Edwin F. Huddle, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application December 29, 1939, Serial No. 311,666
4 Claims. (Cl. 146—106)



1. In an ensilage cutter having a drum, a material-reducing rotor in the drum and including a cutter knife, material delivery means associated with the drum, and means for supplying a treating medium under pressure, the combination with the drum of a shear bar positioned in the drum for cooperation with the cutter knife on the rotor, said bar being formed hollow and having an opening directed toward the path of material delivered by the delivery means, and a conduit connecting the treating medium supply means and the shear bar for supplying said medium to the shear bar to be mixed with the delivered material.

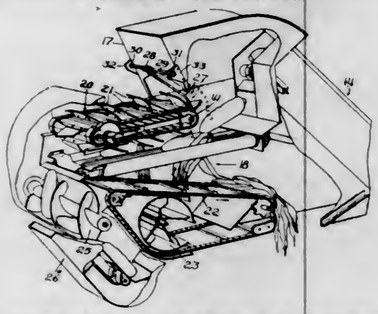
2,286,278
SELF-LOADER
Edwin F. Huddle, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application July 10, 1940, Serial No. 344,752
3 Claims. (Cl. 214—77)



1. A self-loader for a wagon comprising a partition pivotally mounted on the wagon and extending upwardly and rearwardly thereof, and

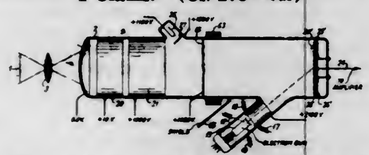
means mounted on the wagon and connected to opposite sides of the partition for adjusting the partition about its pivotal connection to an upwardly and forwardly extending position.

2,286,279
EAR STRAIGHTENER FOR CORN PICKERS
Benjamin M. Hyman, Moline, Ill., and Rector C. Fergason, La Porte, Ind., assignors to International Harvester Company, a corporation of New Jersey
Application October 9, 1939, Serial No. 298,554
2 Claims. (Cl. 130—5)



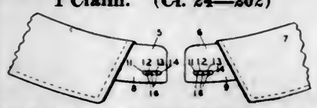
1. In combination, husking rolls, an ear forwarder extending along the rolls from a point spaced from one end thereof and comprising a carrying means and flaps spaced longitudinally and extending downwardly toward the husking rolls at an angle to the carrying means, and an oscillatable ear straightener positioned over the end of the husking rolls from which the ear forwarder is spaced, and means for moving the flaps of the ear forwarder lengthwise in wiping relation with respect to the ear straightener and longitudinally of the rolls in pressing engagement therewith.

2,286,280
ELECTRONIC DEVICE
Harley A. Iams, Berkeley Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 14, 1937, Serial No. 179,679
1 Claim. (Cl. 178—7.2)



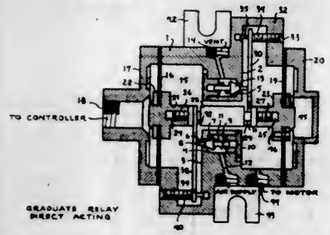
In an electronic light image translating and scanning system, means for producing a controlled intensity electron flow corresponding to the light densities of an optical image, an insulated grid structure positioned to receive the controlled intensity electron flow whereby electrostatic charges of a magnitude proportional to the intensity of the electron flow are produced over elemental areas of the insulated grid, an electron source for flooding the insulated grid structure with a substantially constant density electron flow to produce in accordance with the charges acquired an intensified electron flow substantially like the originally produced electron current flow, a mosaic electrode means to receive the intensified electron flow and to produce an intensified substantial duplicate of the initially developed electrostatic charges and means for translating the intensified electrostatic charges into electrical signals for transmission.

2,286,281
GARMENT
Sylvanus O. Jacks, San Francisco, Calif.
Application January 15, 1941, Serial No. 374,485
1 Claim. (Cl. 24—202)



An adjustable fastening means for the overlapping ends of a neck encircling garment and comprising elongated buttonhole openings formed in each of said overlapping ends, and a dividing element embedded in each of said overlapping ends and having portions thereof extending across the buttonholes and serving slidably to divide the buttonholes into a plurality of independent openings.

2,286,282
CONTROL APPARATUS
Frederick D. Joesting, Chicago, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application July 3, 1939, Serial No. 282,635
7 Claims. (Cl. 121—46.5)

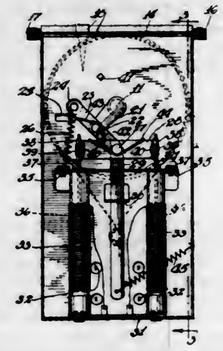


1. In a pneumatic control instrument, in combination, a base member, said base member having a chamber therein, a first diaphragm covering one end of said chamber, a second diaphragm covering the other end of said chamber, a plunger extending through said chamber, said plunger being carried by said diaphragms, a supply valve in said chamber, a vent valve in said chamber, said supply and vent valves communicating with said chamber, means actuated by said plunger for actuating said valves in sequence, means for equalizing the pressure on opposite sides of one of said diaphragms, and means for applying a variable controlling force to the other of said diaphragms, said last mentioned means comprising a spring abutting said diaphragm, a lever for loading said spring, an actuating member for positioning said lever, and motion varying means between said actuating member and said lever.

2,286,283
MULTIPLYING OPERATING MECHANISM FOR PERMEABILITY TUNING PURPOSES
Martin J. Kirk and Frederick N. Jacob, Chicago, Ill., assignors to Johnson Laboratories, Inc., Chicago, Ill., a corporation of Illinois
Application February 20, 1939, Serial No. 257,312
6 Claims. (Cl. 74—103)

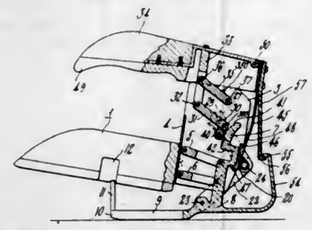
1. An operating mechanism for the movable element of a variable inductance device having

straight-line movement, consisting of a rotary shaft, a crank carried by said shaft, a lever pivotally connected at its mid-portion with and carried by said crank, said crank having movement in opposite directions from a position in alignment with said lever, and means restraining movement of one end portion of said lever substantially to the center line of said alignment,



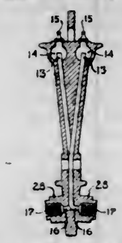
whereby movement of the other end portion of said lever is limited to substantially straight-line movement perpendicular to said center line of alignment and said other end portion of said lever may be mounted for movement in the line of movement of the movable element of the inductance device for operative connection with said movable element.

2,286,284
SELF-LIFTING FLATIRON
John Kremer, New York, N. Y.
Application May 9, 1938, Serial No. 206,820
12 Claims. (Cl. 38—79)



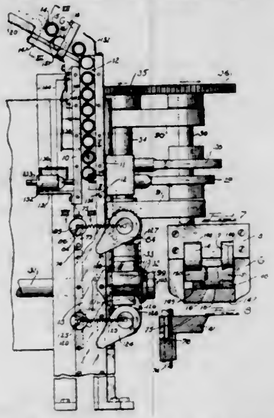
3. A device of the class described, comprising a body member, a handle, a stand, means supporting said handle and stand for up and down motion relative to said body member, at one limit of motion said stand being below said body member and at the other limit being at least as high as the base of said body member, said handle supporting means including connections maintaining said handle in substantial parallel positions with respect to said body member, connections between said handle and stand for raising said stand relative to said body member on depression of said handle relative to said body member, means for preventing downward motion of said handle relative to said body member until said body member has been lowered, and means normally holding said body member elevated with relation to said stand and said handle portion elevated with relation to said body member in which condition said stand supports said body member lifted in non-scorching position.

2,286,285
METHOD OF MAKING FURROW OPENER BOOTS
George M. Kriegbaum, Richmond, Ind., assignor to International Harvester Company, a corporation of New Jersey
Application January 13, 1940, Serial No. 313,733
3 Claims. (Cl. 29—148.3)



1. The method of making a furrow boot having two separate lubricant passageways for two openings, comprising bending two tubular members at a point adjacent one end so as to provide each member with an end portion extending transversely to the main portion, closing the end portion of each tubular member, juxtaposing the members so that the end portions extend away from one another and the main portions extend in side-by-side relationship, placing the members in a mold and holding them in fixed relationship with respect thereto, casting metal around the tubular members and over the closed ends, and cutting through the cast metal and the closed ends to form openings into which the said end portions of the tubular members extend, the tubular members forming separate passageways for lubricant into the said openings.

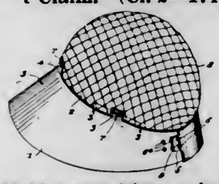
2,286,286
MACHINE FOR TESTING METALLIC CARTRIDGE BELT LINKS
Hilding A. Laystrom and Per O. Persson, Chicago, Ill., assignors to Quality Hardware and Machine Corporation, Chicago, Ill., a corporation of Illinois
Application April 14, 1941, Serial No. 388,504
10 Claims. (Cl. 209—75)



5. A testing machine for the purpose described, comprising means defining a testing passageway, means for controlling the progress of a link to be tested through said passageway, means for receiving the link within said passage-

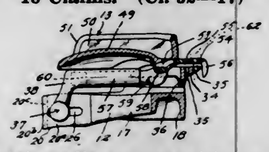
way and subjecting it to a longitudinal tension under a force calculated to permit the link after such tension strain to be returned to its normal length, means movable into said passageway for receiving the link at one end after its tension test, measuring means movable into said passageway for engagement with the other end of the link for determining the degree of elongation of said link under said tension, ejector means for said passageway, operating means for said ejecting means, and means controlled by said measuring means for effecting operation of said operating means for operation of said ejecting means to eject the link from said passageway if said link has been lengthened beyond allowable tolerance by said tension means.

2,286,287
FACE SHIELD
Mayre D. Livingston, Oxnard, Calif.
Application April 1, 1940, Serial No. 327,360
1 Claim. (Cl. 2—174)



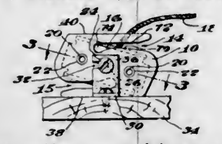
A face shield comprising a body of flexible sheet material curved longitudinally and having an inwardly curved arcuate inner side, a plurality of broad tabs extending outwardly from the inner side edge of said body radially thereof in spaced relation to each other, each tab being formed with aligned openings spaced from each other transversely of the tab whereby a bobby pin may be passed through the openings in straddling relation to the portion of the tab between the openings and clamp the tab to a hair net, one end of said body being formed with a series of longitudinally spaced sets of openings, the openings of each set being spaced from each other transversely of the body and the other end of said body being formed with a set of aligned openings spaced from each other transversely thereof a distance corresponding to the distance between the openings of each set of openings at the first end of the body and adapted to register with a selected set of openings when the second end portion is disposed in overlapped relation to the first end portion of the body whereby a bobby pin may be passed through the registering openings and secure the end portions of the body.

2,286,288
DENTAL BITE RECORDER
Matthew J. Lover, Shreveport, La.
Application August 6, 1941, Serial No. 405,716
18 Claims. (Cl. 32—17)



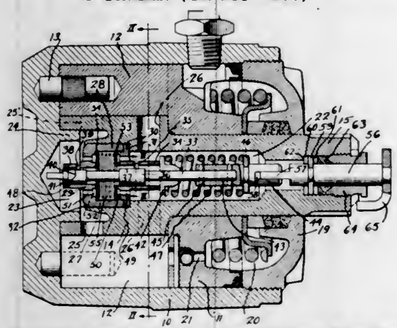
1. A dental appliance comprising a lower impression tray member, an upper impression tray member disposed in superposed relation with respect to the lower member, one of said members being capable of moving in different paths relatively to the other, said lower member having opposed parts thereof being so formed to provide stationary hinge members, shiftable hinge members pivotally and slidably connected to said stationary hinge members, and an automatically lengthwise adjustable coupling structure disposed between said tray members and being fixed at one end to said shiftable hinge members and at its other end to said upper tray member.

2,286,289
STRING CUTTER
Olaf B. Lyshaug, Quincy, Mass.
Application August 1, 1939, Serial No. 287,780
7 Claims. (Cl. 30—290)



1. A string cutter comprising a pair of clamping members having an elongated opening formed therein, a cutting blade interposed between said clamping members and arranged at an angle to said opening to expose a portion of the cutting edge, one of said clamping members being provided with hollow lugs formed integrally therewith and arranged to extend through openings in said blade and the opposed clamping member, and means for clamping the members in assembled relation, said elongated opening being gradually restricted from either end thereof and having its narrowest portion adjacent said cutting edge, whereby to provide maximum lateral support for said blade and to afford clearance at either end of said elongated opening for the string being cut.

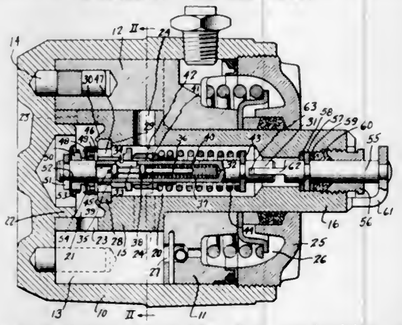
2,286,290
HYDRAULIC SHOCK ABSORBER VALVING ASSEMBLY
Gervase M. Magrum, Buffalo, N. Y., assignor, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application May 15, 1941, Serial No. 393,527
5 Claims. (Cl. 188—100)



1. Valving assembly for controlling the bound and rebound flow in a hydraulic shock absorber comprising a seating member interposed in the fluid flow, said seating member defining a path therethrough for bound flow and said path including an orifice port at one end of said seating member, said seating member providing another path therethrough for rebound flow and said path including an orifice port in the other end of said seating member, a valve stem rotatable and shiftable in said seating member, valves on said valve stem adapted upon rotational adjustment of said stem for cooperation with said orifice ports for

defining the areas therethrough for the desired resistances to the bound and rebound flows, a blow-off valve for the bound flow mounted on the inner end of said valve stem for seating against the inner end of said seating member, a blow-off valve for the rebound flow slidable on said stem for seating engagement with the outer end of said seating member, an abutment on said stem at the outer end thereof, a spring interposed between said abutment and the rebound blow-off valve for normally holding both blow-off valves seated, abnormal bound or rebound flow pressure causing unseating of the respective blow-off valves for opening a comparatively low resistance flow path in shunt of the respective orifice port, and means for effecting rotation of said stem for simultaneous adjustment of said orifice ports by said valve members.

2,286,291
HYDRAULIC SHOCK ABSORBER VALVE STRUCTURE
Gervase M. Magrum, Buffalo, N. Y., assignor, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application May 15, 1941, Serial No. 393,528
2 Claims. (Cl. 188—100)

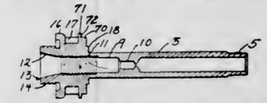


1. A valving assembly for controlling the bound and rebound flow in a hydraulic shock absorber, comprising a seat member interposed in the path of the fluid flow, a valve stem extending through said seat member and having a passageway therethrough for rebound fluid flow, an adjustable orifice communicating with said valve stem passageway for metering the rebound flow therethrough, a static valve movable in said valve stem passageway, a spring normally holding said static valve in advance of said adjustable orifice for resisting the rebound flow until the pressure becomes sufficient to shift said static valve against the spring power for exposure of said adjustable orifice for metering thereby of the rebound fluid flow, a blow-off valve mounted on said valve stem, and a spring normally holding said blow-off valve seated against said seat member but responsive to abnormal rebound flow pressure to permit unseating of the blow-off valve for providing a low resistance flow path for the rebound fluid in shunt of the path through said adjustable orifice.

2,286,292
SPINDLE ASSEMBLY
Arthur William Mall, Flossmoor, Ill.
Application January 8, 1940, Serial No. 313,015
3 Claims. (Cl. 279—1)

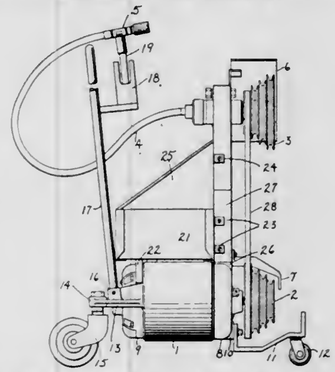
1. As an article of manufacture, a tool holding spindle shaft for a spindle assembly, com-

prising an elongated cylindrical stem adapted to receive a driving member, a head integral with the elongated stem and adapted to accommodate removable tool attachments, an axial bore extending through the head and having a threaded region adapted to receive a threaded securing element or a stem of a tool, a flared end region opening into the free end of the head, said flared end region having a continuously uninterrupted surface area and being adapted to coact with a chuck collet for closing the jaws thereof or to coact with a conical piloting shoulder of a tool stem, said head being formed at its free end with an externally thread-



ed nipple, the external threads of said nipple having a crest clearance reduced from normal to form a smooth cylindrical surface for piloting a tool thereon, a radially outwardly extending annular shoulder defining the base of said nipple, adapted to locate against a radial face of a tool or adapter threaded or piloted on said nipple, the inner end of said head being formed, respectively, with a radially inwardly extending annular surface, an axially extending cylindrical surface, a second radially inwardly extending annular surface, a second axially extending cylindrical surface, and a third radially inwardly extending annular surface.

2,286,293
GRINDING MACHINE
Arthur William Mall, Flossmoor, Ill.
Application March 4, 1940, Serial No. 322,214
6 Claims. (Cl. 51—170)



1. A grinding machine comprising movable supporting means, a grinding tool, a motor, a motor shaft, an upright secured to the motor, a hub portion at the upper end of the upright, a bore in said hub portion, a countershaft housing journaled in the bore, a countershaft within the housing and operatively connected to the grinding tool, a pulley secured to the countershaft, a second pulley secured to the motor shaft, a belt trained about the pulleys, means for adjusting the tension of the belt relative to the pulleys, said means including a ring rotatably journaled in the hub bore, an eccentric bore in said ring, said countershaft housing being journaled in the eccentric bore and secured to the ring so as to be rotatable therewith, whereby the adjustment of the belt tension is obtained by manually rotat-

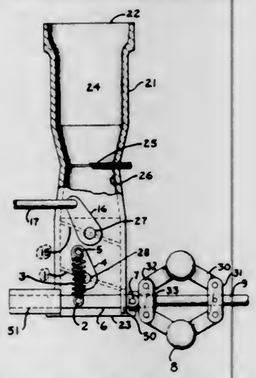
ing the countershaft housing and the eccentrically bored ring until the desired tension is obtained, and means for maintaining the adjusted tension of the belt, said means including a bolt extending through the eccentric ring for clamping the ring in a fixed position within the bore of the upright.

2,286,294

CARBURETOR AND CHARGE CONTROL SYSTEM FOR INTERNAL COMBUSTION ENGINES

Marion Mallory, Detroit, Mich.

Application October 28, 1940, Serial No. 363,134
11 Claims. (Cl. 123—123)



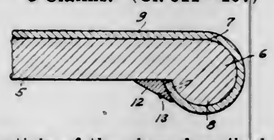
1. A carburetion and charge control system for an internal combustion engine comprising an intake passageway, a manually controlled throttle valve in said intake passageway, an unbalanced throttle valve in said passageway tending to open when subjected to intake manifold suction, and means responding to engine speed connected to said unbalanced valve tending to open the same as the speed of the engine increases whereby said unbalanced throttle valve is controlled in accordance with the speed and load of the engine.

2,286,295

TABLE TOP OR THE LIKE CONSTRUCTION

Frank Mastrangelo, Fitchburg, Mass., assignor to Angel Novelty Company, Fitchburg, Mass., a corporation of Massachusetts

Application August 14, 1941, Serial No. 406,840
3 Claims. (Cl. 311—107)



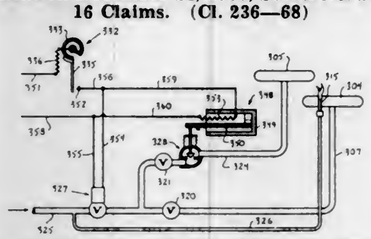
1. An article of the class described comprising a flat element having spaced plane top and bottom surfaces, said top surface extending outwardly beyond said bottom surface at the edges of said element, a round enlarged bead extending along said edges and being tangent to said outwardly extending top surface and having its periphery adjacent said bottom surface located generally along an angle thereto to form an angular junction therewith, said bead having an axis of revolution located below and in substantial vertical alignment with the edge of said top surface and horizontally outwardly beyond the outermost extent of said bottom surface, a covering of pliant material on said top surface and surrounding said bead, and means fastening an edge of said covering to said bead adjacent said junction, the curve of said bead extending downwardly below the bottom surface of the article and thence upwardly to meet said bottom surface, whereby the edge of the covering is completely hidden by the bead from observation from in front of the bead.

2,286,296

TEMPERATURE CONTROL SYSTEM

William L. McGrath, St. Paul, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application December 24, 1938, Serial No. 247,565
16 Claims. (Cl. 236—68)



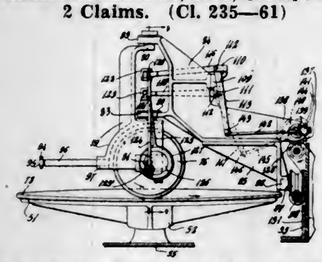
11. In apparatus of the character described, in combination, heating means for heating a medium, thermostatic means operative to turn the heating means on at a predetermined temperature and off at another predetermined temperature, said thermostatic means being responsive to the temperature of the medium so that the relative duration of the off periods and the on periods of the heating means depends upon the heating requirements, control means responsive to the relative duration of the alternate on and off periods comprising a heat responsive device capable of movement independent of said thermostatic means, means for heating the device, means for rendering said device heating means operative during the periods of one of the alternating series of on periods and off periods of the heating means, the device dissipating heat during the periods of the other said series, whereby the device assumes a position depending upon the rate of heat input thereto as determined by the relative lengths of the said on periods and off periods of the heating means, and means responsive to the position of said control means operative to adjust the rate of heating of said heat means.

2,286,297

INTEGRATING MEANS

Herbert L. Merrick, deceased, late of Passaic, N. J., by Katherine S. Merrick, executrix, Passaic, N. J., assignor to Merrick Scale Mfg. Company, Passaic, N. J., a corporation of New Jersey

Application November 22, 1938, Serial No. 241,734
2 Claims. (Cl. 235—61)



1. In integrating means, a friction disk rotated

in correspondence with the value of one of the quantities to be integrated, a friction wheel, a carriage movable in a plane transversely of the friction disk, a carrier supporting the friction wheel to rotate about its axis pivotally mounted in the carriage to have adjustment with the friction wheel about an axis perpendicular to the axis of rotation of the friction wheel and position the friction wheel to frictionally engage the disk with the axis of the friction wheel normally extending in a plane intersecting the axis of the friction disk, means to adjust said carrier with the friction wheel about its pivot support in the carriage and change the angular position of the axis of rotation of the friction wheel relative to the friction disk and cause said friction wheel to travel radially of and assume different positions on the disk in correspondence with fluctuations in the value of the other quantity to be integrated, and means to combine the rotations of said disk and said friction wheel to give the integrated value, comprising differential gearing, an elongated pinion rotatable on an axis parallelly of the movement of the carriage, means to operatively connect and transmit the rotation of said pinion to an element of the differential gearing, a gear rotatably carried by and participating in the movement of the carriage meshing with said pinion, means to transmit the rotation of the friction wheel to said gear, and gearing operatively connecting another element of the differential gearing with and rotate the same at a speed proportional to the rotation of the disk.

2,286,298

ALUMINUM SOLDERING FLUX

Mike A. Miller, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application September 8, 1941, Serial No. 410,041
10 Claims. (Cl. 148—23)

1. The method of increasing the activity of a soldering flux containing at least two boron-fluorine-containing compounds, one of which is a heavy metal fluoborate and the other an acidic boron-fluorine-containing compound, and at least one amine selected from the group of amines consisting of aliphatic poly-amines and aliphatic amino-alcohols, which comprises introducing a relatively small amount of actifying ammonia in said flux and thereafter heating the flux above about 50° C. but below the temperature of decomposition of any portion of the amine component.

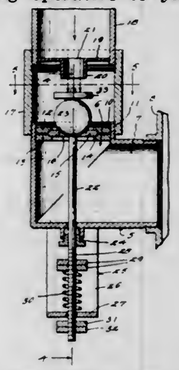
2,286,299

AUTOMATIC AUXILIARY FLOW BEAN

John B. Newell and James E. Low, Monument, N. Mex.

Application October 2, 1939, Serial No. 297,578
1 Claim. (Cl. 251—145)

In a device of the character described, a casing having an inlet section, a valve section, and an outlet section, the said inlet section having a transverse partition formed with a central reduced inlet passage leading into the valve section, the outlet section having an interiorly screw threaded inlet portion, a pair of annular support elements disposed in parallel positions in the said threaded inlet portion, the said annular elements being exteriorly screw threaded to engage the said threaded portion and having annular grooves in their inner edges, an annular valve seat having its outer portion fitted in the grooves of the support elements and supported transversely thereby, a valve stem slidably supported on the said outlet section and extending axially through the center opening of the valve seat, a ball valve secured on the stem and adapted to engage the seat for closing the passage therethrough, a spring operative to yieldingly urge



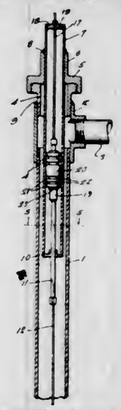
the valve to an open position removed from the seat, and a disk secured transversely on the stem within the valve chamber.

2,286,300

TRAVELING CUP AND STUFFING BOX

Dale E. Outcalt, Flat Rock, Ill., assignor of twenty-five per cent to Lloyd Mervin Outcalt and twenty-five per cent to Norman Eugene Outcalt, both of Montpelier, Ind.

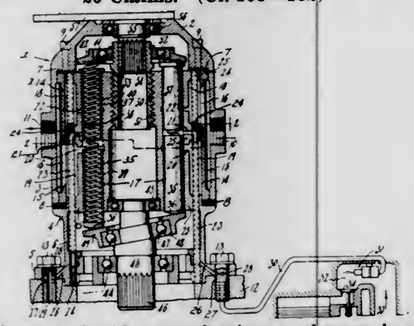
Application May 15, 1941, Serial No. 393,631
1 Claim. (Cl. 103—179)



In a pumping assembly including tubing, a T coupling connected to the upper end of the tubing, an outlet pipe leading from the T coupling, a member connected with the upper end of the T coupling and having a flange at its upper end, a cap detachably connected with the flange and having an upwardly extending sleeve formed therewith, a barrel having an intermediate portion passing through the sleeve and connected therewith for removal of the cap and barrel from the tubing as a unit, said barrel extending into the tubing to a point below the T coupling and said barrel being of smaller diameter than the tubing and the T coupling to provide a space between itself and said tubing and T coupling for the passage of liquid from the tubing to the outlet pipe, a vented closure for the upper end of the barrel, the lower end of the barrel being closed and provided with a centrally arranged non-circular opening in said closed lower end, a rod of non-circular shape in cross section passing through the non-circular opening in the bottom

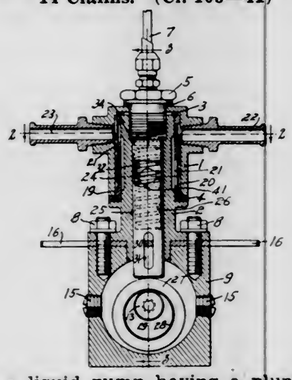
of the barrel, a second rod having its lower end connected with the upper end of the non-circular rod, a third rod passing through the upper end of the barrel and connected to the upper end of the second rod, packing means carried by the second rod and a fixed abutment and a movable abutment on the second rod and engaging opposite ends of the packing means for expanding the packing means by turning movement of the third and second rods.

2,286,301
LIQUID PUMP
Ben G. Parsons, Detroit, Mich., assignor to American Bosch Corporation, Springfield, Mass., a corporation of New York
Application February 28, 1941, Serial No. 381,067
20 Claims. (Cl. 103—162)



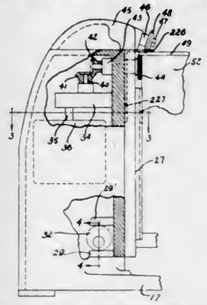
1. In a liquid pump having a plunger barrel with inlet and outlet ports, a hollow delivery plunger reciprocative in said barrel, operating means acting to move said plunger in its delivery stroke to force liquid through said outlet port, a spring extending into the plunger and acting to effect its return suction stroke and draw liquid through said inlet port into said barrel, and a control piston in said barrel for controlling the amount of liquid delivered through the outlet port in each delivery stroke of said plunger.

2,286,302
LIQUID PUMP
Ben G. Parsons, Detroit, Mich., assignor to American Bosch Corporation, Springfield, Mass., a corporation of New York
Application February 28, 1941, Serial No. 381,068
14 Claims. (Cl. 103—41)



1. In a liquid pump having a plunger barrel with a coaxial outlet port and with an inlet port, a delivery valve arranged in the outlet port, a hollow delivery plunger reciprocative in said barrel, operating means for moving said plunger in its delivery stroke to force liquid through said delivery valve, a spring extending into said plunger and reacting between it and said delivery valve to effect the suction stroke of said plunger and to draw liquid through the inlet port into said barrel, and control means for controlling the amount of liquid forced through said delivery valve in the delivery stroke of said plunger.

2,286,303
CAN OPENER
Alan H. Pearson, Detroit, Mich.
Application June 26, 1940, Serial No. 342,509
5 Claims. (Cl. 30—4)



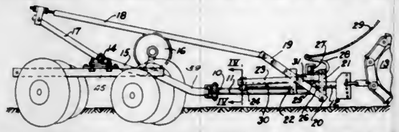
1. A can opener of the class described, comprising: a base standard projecting upwardly from said base; a supporting mechanism slidably mounted on said standard; a can rotating means carried by said supporting mechanism; a cutting member carried by said standard; cam means for raising and lowering said supporting mechanism and moving a can into engagement with said cutting means; means for operating said can rotating means; and control means for controlling said operating means and effecting operation of the same upon the raising of a can into engagement with said cutting mechanism.

2,286,304
AZO DYE
Henry Charles Olpin, Spondon, near Derby, England, assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application July 9, 1940, Serial No. 344,603. In Great Britain August 26, 1939
11 Claims. (Cl. 260—207)

7. Phenolic mono-azo dyes of the formula $R_1—N=N—R_2.OH$ wherein R_1 is an aryl radicle containing an acidylamino group, and R_2 is a radicle selected from the class of diphenyl radicles and cyclohexyl-benzene radicles, both R_1 and R_2 being free from nitro and sulphonic groups.

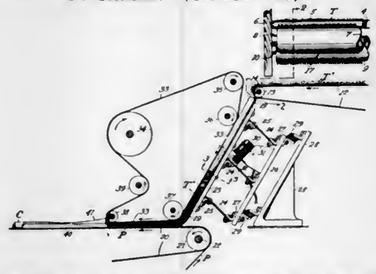
2,286,305
IRRIGATION RIDGER
Kenneth D. Priestley, San Jose, Calif.
Application October 18, 1941, Serial No. 415,591
10 Claims. (Cl. 97—56)

1. In an earth working implement of the character described, the combination of a transversely extending tow beam having a central and forwardly extending tongue, a rigid frame having a forward and trailing gang of earth working discs connected to one end of said tow beam, a second rigid frame having a similar forward and trailing gang of earth working discs connected to the other end of said tow beam, a lateral shaft journaled at its ends upon each of said rigid frames between their forward and trailing gangs of earth working discs, a wheeled chassis pivotally mounted upon said shaft between said rigid frames having wheels positioned radially from the axis of said shaft, a controlling lever for moving said chassis about said shaft to bring its



wheels into engagement with the ground, lever means pivotally mounted at the outer end of said forwardly extending tongue and connected to said chassis controlling lever, and a draw bar slidably mounted upon said tongue adapted when moved relative to said tongue to operate said controlling lever, whereby said gangs of earth working discs will be raised to an inoperative position.

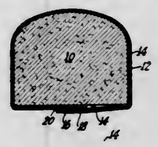
2,286,306
CIGARETTE MACHINE TOBACCO FEED
Clifford F. Randolph, Brooklyn, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey
Application April 21, 1937, Serial No. 138,124
31 Claims. (Cl. 131—66)



1. The combination with means having walls providing a tobacco receiving trough, of means providing a travelling surface cooperating with an open side of said trough and forming a wall closing said open side to provide therein an elongated space having a cross section approximately that of a cigarette rod, and mechanism imparting to at least one wall of said space a vibratory movement oblique to the axis of the trough and having a component of movement in the same direction as said travelling surface to advance and compact the tobacco in said trough into a cigarette filler and mechanism for wrapping a continuous strip of cigarette paper about said filler.

2,286,307
ARTICLE AND PROCESS OF MAKING THE SAME
Harry H. Replogle, Scarsdale, N. Y., assignor to Sylvania Industrial Corporation, Fredericksburg, Va., a corporation of Virginia
Application August 26, 1939, Serial No. 292,016
10 Claims. (Cl. 93—2)

10. An article of manufacture comprising a loaf of bread, a potentially adhesive wrapper of translucid material enveloping said loaf with a pair of adjacent edges of the wrapper forming an overlapped seam, a band of indicia-bearing material encircling said loaf with an end portion of said band interleaved with the edges of said wrapper in the seam, the said end portion of said band being smaller in area than the area of the portion of the overlapping edges of said wrapper which is included between the side edges of the

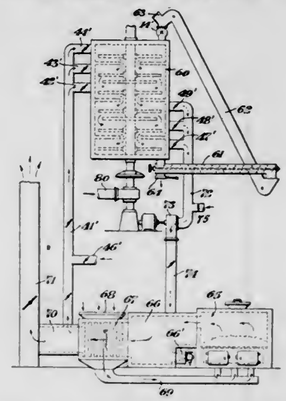


wrapper and lines along the side edges of said band, the said edges of said wrapper forming the overlapped seam being sealed together by the adhesive properties of the wrapper substantially over the area of said seam except that portion which is covered by said end of the band, whereby said band is anchored and fixed in position.

2,286,308
FIREPROOFING
Charles M. Rosser, Fredericksburg, Va., assignor to Sylvania Industrial Corporation, Fredericksburg, Va., a corporation of Virginia
No Drawing. Application November 13, 1941, Serial No. 418,892
12 Claims. (Cl. 117—136)

1. As an article of manufacture, a body of organic hydrophilic material having incorporated therein an alkyl guanidine phosphate in sufficient quantity to render the article fireproof.

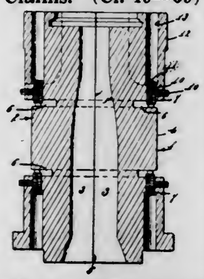
2,286,309
METHOD AND APPARATUS FOR DRYING AND INCINERATING WASTE MATERIALS OF HIGH MOISTURE CONTENT
Robert W. Rowen, New York, N. Y., assignor to Nichols Engineering & Research Corporation, New York, N. Y., a corporation of Delaware
Application May 2, 1940, Serial No. 332,900
5 Claims. (Cl. 110—12)



3. Furnace apparatus for drying sewage sludge of high moisture content, with the aid of heat from burning refuse, comprising a plurality of enclosed superimposed drying hearths, means for introducing the material onto the upper hearth and for periodically agitating and gradually advancing same over each hearth and downwardly from hearth to hearth, a separately enclosed refuse incinerator, and means for conducting a

stream of hot gaseous products of combustion therefrom into the space over the upper drying hearth or hearths and thence co-current with the drying material, and means for discharging said stream with the evaporated moisture from the lower drying hearth or hearths.

2,286,310
BOTTLE MOLD
Otto Herbert Samuelson, Indianapolis, Ind.
Application May 27, 1940, Serial No. 337,375
7 Claims. (Cl. 49—69)



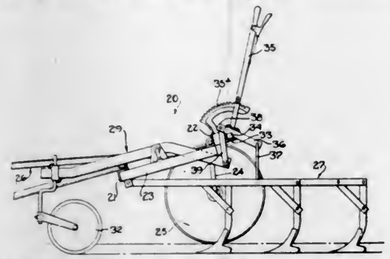
7. A glass mold comprising two separable mold sections having abutting faces adapted to meet at a parting line with an uninterrupted contact throughout the meeting face area and having a tendency to separate from said contact at the top and bottom under the influence of heat, each of said sections intermediate of its top and bottom having a groove formed therein extending from the outer surface inwardly toward the abutting face and screw means for wedging the walls of said grooves apart to cause a bowing of each section adjacent the top and bottom toward the parting line when said sections are cold to compensate for said separation tendency.

2,286,311
MAGNESIUM-ZIRCONIUM ALLOY
Franz Sauerwald, Breslau, Germany, assignor, by mesne assignments, to Magnesium Development Corporation, a corporation of Delaware
No Drawing. Original application October 28, 1939, Serial No. 301,827. Divided and this application May 2, 1940, Serial No. 332,964. In Germany November 8, 1938
1 Claim. (Cl. 75—168)

A binary magnesium-zirconium alloy, said alloy containing between about 2.1 and about 5 per cent of zirconium in a state of solid solution in the magnesium base matrix.

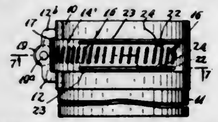
2,286,312
CULTIVATING IMPLEMENT
Arthur A. Scarlett and Stephen M. Young, Hamilton, Ontario, Canada, assignors, by mesne assignments, to International Harvester Company, Chicago, Ill., a corporation of New Jersey
Application July 25, 1940, Serial No. 347,438
7 Claims. (Cl. 97—145)

1. An implement of the type adapted to eliminate basin lister ridges comprising a wheeled frame, coulters pivotally mounted on the frame and adapted to operate generally at the center of the ridges so as to split said ridges, earth-working means pivotally mounted on the frame and associated with the center and the sides of the ridges for leveling off said ridges, and a single control means mounted on the frame and operatively associated with the coulters and the earth-working means for adjusting said coulters and



said earth-working means about their pivotal connections to the frame.

2,286,313
COMPRESSOR CLAMP FOR PISTON RINGS
Nils Seaholm, Mount Vernon, N. Y.
Application July 26, 1940, Serial No. 347,686
3 Claims. (Cl. 29—86.4)



3. A compressor clamp for piston rings having a base strip of flexible strong sheet material for engaging about a piston over its piston rings and a top strip of flexible strong material attached at one end to an intermediate portion of said base strip and formed with a plurality of inclined parallel slots, a bracket having a base wall mounted on one end of said base strip with horizontally spaced vertically extending side walls continuing from the ends of said base wall, said bracket being formed with slots at the junction of its side walls and base wall through which the free end of said top strip extends, and a worm pinion rotatively supported between said side walls and having one side meshing with certain of said slots, and means for holding the attached end of said top strip in various positions along the length of said base strip, comprising clamp instrumentalities mounted on one of said strips and engaging longitudinally extending slots formed in the other strip.

2,286,314
PLASTICIZER
George W. Seymour and Blanche B. White, Cumberland, Md., assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application April 5, 1940, Serial No. 327,994
8 Claims. (Cl. 106—188)

1. A composition of matter comprising a derivative of cellulose selected from the group consisting of cellulose esters and ethers and a polyglycol ether of the following formula:

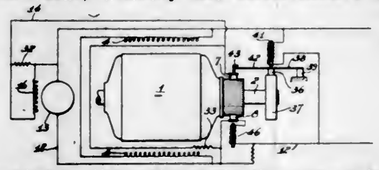
$$R—(O—CH_2CH_2)_n—X$$

wherein R is an aryl group, X is an alkoxy group, and n is an integer of at least 2.

2,286,315
GENERATOR REGULATOR
Erle I. Shobert, II, St. Marys, Pa., assignor to Stackpole Carbon Company, St. Marys, Pa., a corporation of Pennsylvania
Application June 21, 1941, Serial No. 399,135
13 Claims. (Cl. 171—119)

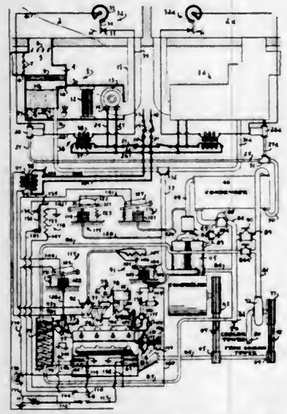
13. The combination with a generator, of an electric motor driven thereby and having its field circuit connected to the armature circuit of the

generator, the armature circuit of the motor being in series with the field circuit of the generator, means restraining operation of said motor until the generator output reaches a predetermined value, whereby the electromotive force



generated by the motor curbs the current in the generator field circuit and thereby regulates the generator output, and means for breaking the field circuit of the generator if said output starts to exceed said value.

2,286,316
AIR CONDITIONING
Edwin Snook, Amarillo, Tex., assignor to Minneapolis-Honeywell Regulator Company, a corporation of Delaware
Application June 26, 1937, Serial No. 150,550
23 Claims. (Cl. 62—6)



10. In an air conditioning system, in combination, a cooling coil in heat exchange relationship with the air to be conditioned, a compressor connected to said cooling coil for withdrawing evaporated refrigerant therefrom and for compressing such evaporated refrigerant, a condenser for condensing the compressed refrigerant, pumping means for supplying a cooling medium to said condenser, a variable speed prime mover connected to both said compressor and said pumping means to thereby cause said compressor and pumping means to operate at speeds determined by the speed of the prime mover, and control means responsive to a load condition on the system for varying the speed of the prime mover in accordance with changes in load.

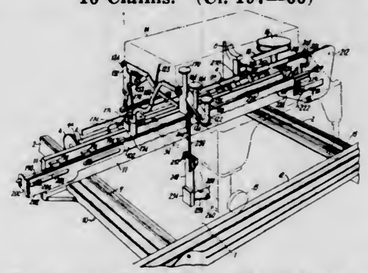
2,286,317
DYE
Edmund Stanley, George Holland Ellis, and Henry Charles Olpin, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application December 20, 1939, Serial No. 310,178. In Great Britain December 30, 1938
9 Claims. (Cl. 8—48)

1. Process for the production of colored cellulose ester or ether materials which comprises forming an azo dye on cellulose ester or ether textile materials, straws, foils or the like, by coupling thereon a diazotized amino azo compound of the general formula

$$R_1—N{=}N—R_2—NH_2$$

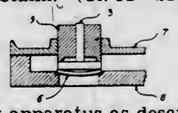
with a phenolic coupling component, R_1 being a radicle of which the aryl nuclei are selected from those of the benzene and naphthalene series and which consists of two of the said nuclei united by a single linkage, R_2 being a member of the group consisting of benzene and naphthalene radicles, and the phenolic coupling component being selected from the group consisting of mononuclear phenols, hydroxy-diphenyls and hydroxy-diphenylmethanes.

2,286,318
CARRIAGE RETURN MECHANISM FOR WRITING MACHINES
Oscar J. Sundstrand, Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application December 30, 1938, Serial No. 248,553
16 Claims. (Cl. 197—66)



2. In a record making machine, a carriage movable across the machine in opposite directions, means for moving the carriage in letter spacing direction, power operated mechanism for imparting return movements to the carriage, mechanism for stopping the return movement of the carriage with the carriage in a predetermined partially returned position, comprising a movable stopping device, a manipulative device for throwing in said power operated mechanism and for positioning said stopping device to stop the carriage, means for holding said stopping device in stopping position during return movement of the carriage to stopping position and machine controlled mechanism for releasing said holding means immediately after the movement of the carriage is stopped.

2,286,319
LENS BLOCKING APPARATUS
Max Sünskes, New York, N. Y.
Application December 13, 1939, Serial No. 308,999
1 Claim. (Cl. 51—216)



In a blocking apparatus as described for a lens blank, two recessed bases, a holder for the lens blank having a head and a stem to which said lens blank is pitched prior to its grinding, one of said bases forming a seat for supporting the lens blank, and the other of said bases having an opening to allow the passage of said lens

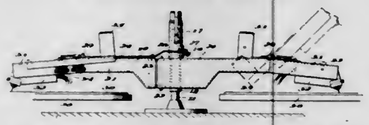
holder head, and a weight having a channel for the passage of the stem of said lens blank holder, said weight engaging the head of the holder to hold the lens blank firmly in position for pitching.

2,286,320

DUPLEX TONE ARM

Christian A. Volf, Van Nuys, Calif., assignor to Clarence W. Sinn, New York, N. Y.

Application March 25, 1941, Serial No. 385,162
8 Claims. (Cl. 274—23)



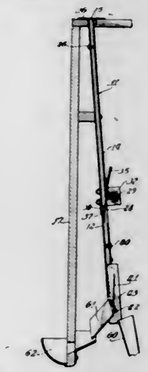
1. A duplex tone arm for simultaneous cooperation with a pair of sound records of the disc type positioned on side by side driving tables, comprising a supporting standard positioned between said tables, a tone arm carried by said standard, a second tone arm supported by the first tone arm, sound translating devices at the ends of each of said tone arms, and means, forming part of said supporting standard, for lowering and raising the first tone arm, and with it, the second tone arm, into and out of operative relationship with their respective records.

2,286,321

APPARATUS FOR SEPARATING GENUINE FROM SPURIOUS COINS

Fred E. A. Wallin, Chicago, Kurt T. Johnson, Palatine, and Carl G. Johnson, Chicago, Ill., assignors to Noel M. Seeburg, Chicago, Ill.

Application August 17, 1936, Serial No. 96,411
7 Claims. (Cl. 194—100)



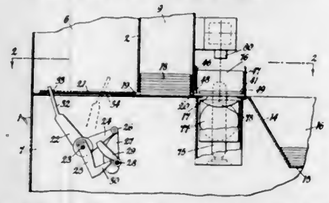
1. An apparatus for separating coins in accordance with their frictional-electric characteristics comprising an elongated chute through which a coin is adapted to fall freely, an unheated contact of metal arranged frictionally to engage the falling coin, said metal being other than that of the genuine coin and having different frictional-electric characteristics than the metal of said genuine coin, said contact being located at a substantial distance from the upper end of the chute whereby it is engaged by the falling coin after it has fallen freely through a substantial distance thereby generating a current depending on the frictional-electric characteristics of the metal of the coin, metallic means of metal having different frictional-electric characteristics from those of the contact in said chute adapted to be engaged by the coin when the coin engages said contact, a circuit including said contact and said metallic means adapted to be completed by the coin, and mechanical means controlled by the current thus frictionally generated between said coin and said contact for controlling the disposition of the coin.

2,286,322

APPARATUS FOR THE AUTOMATIC PROJECTION OF PHOTOGRAPHIC TRANSPARENCIES AND THE LIKE

Percy Stuart Warriner, Doncaster, England

Application August 3, 1940, Serial No. 350,968
In Great Britain June 10, 1940
11 Claims. (Cl. 88—28)



1. An automatic continuously operable slide projector comprising, in combination, a vertical slide magazine, down which the slides descend by gravity and from which they are ejected in succession, the lowermost at a time, by way of an exit passage in the side of the magazine; a projection aperture, located with its plane horizontal and in alignment with the exit passage; a horizontal track for the slides, extending from the exit passage, first to the projection aperture, where it constitutes a support for the slides while they are being shown and then to a device for receiving the shown slides; a rapidly reciprocating slide ejector, operative with the interposition of a dwell (slide-showing) period between each reciprocation and the next, to shoot the slides out of the magazine, by way of the exit passage in the side thereof, and along the track to the showing position thereon, a previously ejected slide in that position being displaced therefrom by this action towards the receiving device; shutter means automatically operative in time with the reciprocations of the slide ejector to close the aperture during the periods of slide-change; and means for applying pressure upon the slides as they move to the showing position so as to brake their movement thereto and prevent them from being over-shot therepast by the throw of the ejector, the said pressure being applied through the intermediary of the shutter means.

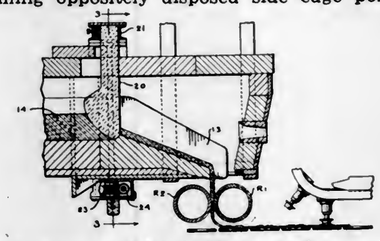
2,286,323

APPARATUS AND METHOD FOR FEEDING AND FABRICATING GLASS

Walter C. Weber, West Hartford, Conn., and Edmund H. Wellech, Corning, N. Y., assignors to Corning Glass Works, Corning, N. Y., a corporation of New York

Application January 11, 1940, Serial No. 313,464
7 Claims. (Cl. 49—5)

1. The method of producing ware from other than surface glass of a molten supply body which comprises flowing the surface and under surface glass from the supply body in the form of a stream, forming the stream into a flattened ribbon with the sub-surface glass constituting the central portion thereof and the surface glass forming oppositely disposed side edge portions



of the ribbon, and fabricating ware from only the central portion of the ribbon.

2,286,324

MASSAGE ROLLER

Jere L. Wentz, Passaic, N. J.

Application January 18, 1941, Serial No. 374,962
2 Claims. (Cl. 128—57)



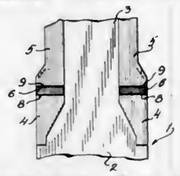
2. In a device of the character described, the combination of a roller having a convex face, a shaft rotatably seated in the said roller, handle members on the outer ends of the said shaft and moveable thereon against the said roller, the inner faces of the said handle members being concave to fit against the convex face of the said roller.

2,286,325

HEEL KNITTING MACHINE FOR SINGLE UNIT STOCKINGS

Kurt Wickardt, Oberlungwitz, Erich Eissner, Chemnitz, and Arnold Verbeek, Wuestenbrand, Germany, assignors to Kalio, Inc., New York, N. Y.

Application April 7, 1938, Serial No. 200,728
In Germany June 23, 1937
26 Claims. (Cl. 66—82)



1. In a knitting machine of the character described capable of performing loop knitting and loop transferring cycles, a needle bar having relatively movable needle sections, and a control mechanism for said needle bar operatively associated with the knitting machine to automatically couple said sections when the machine passes from a loop knitting cycle to a loop transferring cycle.

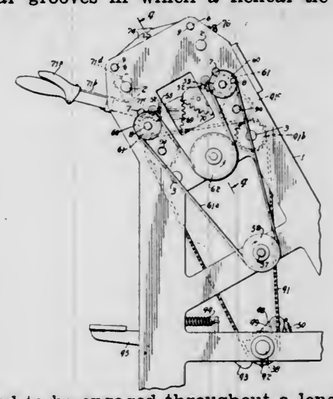
2,286,326

SPRING CONSTRUCTION ASSEMBLING MACHINE

Fred R. Zimmerman and Rudolph W. Lotz, Chicago, Ill., assignors to Nachman Spring-filled Corporation, Chicago, Ill., a corporation of Illinois

Application July 1, 1940, Serial No. 343,422
33 Claims. (Cl. 140—3)

1. A mechanism for joining the rows of upholstery springs comprising a support for two rows of said springs, means for maintaining said springs of one row in overlapped relation to the springs of the other row, a pair of rollers equipped with annular grooves, the grooves of one row alternated with those of the other row, the larger diameter portions of said rollers equipped with annular grooves in which a helical tie wire is



adapted to be engaged throughout a length substantially equal to length of said rows of springs, presser rolls associated with said rollers for maintaining the tie wires engaged in the last-named grooves, and mechanism for rotating and advancing the helical tie wires along said rollers and into encircling relation to the overlapped portions of said springs.

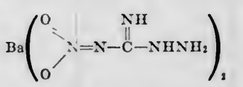
2,286,327

BARIUM SALT OF THE PSEUDO ACID OF NITROAMINOGUANIDINE AND METHOD OF PREPARING THE SAME

Kenneth D. Ashley, Darien, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application November 9, 1940, Serial No. 365,007
3 Claims. (Cl. 260—564)

3. The barium salt of of the pseudo acid of nitroaminoguanidine having the following formula—

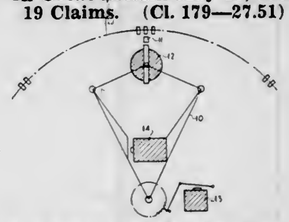


2,286,328

AUTOMATIC SWITCH FOR USE IN TELEPHONE OR LIKE SYSTEMS

George Thomas Baker, Liverpool, England, assignor to Associated Telephone & Telegraph Company, Chicago, Ill., a corporation of Delaware

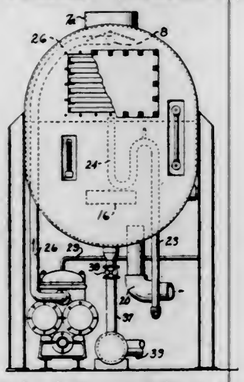
Application May 11, 1939, Serial No. 273,034
In Great Britain May 13, 1938
19 Claims. (Cl. 179—27.51)



1. In a unitary switch structure, a contact

bank in which terminate lines of two different classes, each of the lines of one class appearing but once in said bank, a plurality of circuit closers corresponding respectively to the lines of the other class, and a mechanism common to said circuit closers for operating any one thereof to cause that circuit closer to complete a circuit via said contact bank between the line of said other class to which that circuit closer corresponds and any line of said one class.

2,286,329
WATER HEATER
Edward W. Bannon, Houston, Tex.
Application September 8, 1939, Serial No. 293,880
6 Claims. (Cl. 261—113)



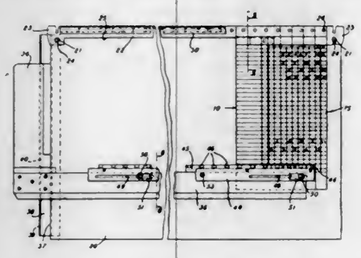
1. A water heater comprising a casing having a condensing chamber, a steam chamber beneath and connected with the condensing chamber and a water storage chamber beneath the steam chamber and connected with the condensing chamber, an exhaust steam pipe entering the steam chamber, a tier of trays in the condensing chamber, means for showering water over the tier of trays, means for draining said water into the storage chamber and a discharge water line leading from the storage chamber.

2,286,330
GUANIDINE FERRICYANIDE COMPLEX
Robert B. Barnes, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application May 28, 1940, Serial No. 337,631
6 Claims. (Cl. 260—439)

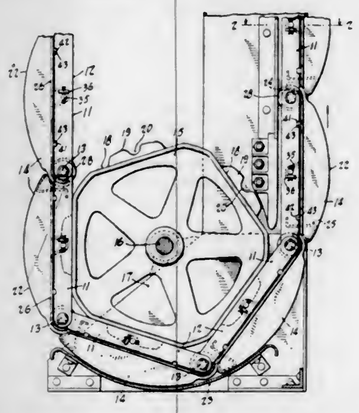
1. A guanidine alkali metal ferricyanide.

2,286,331
RECORD SHEET HOLDER
Brynjulf Berger, Bellerose, N. Y., and Paul Humphrey, Mountain Lakes, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application October 5, 1939, Serial No. 297,994
9 Claims. (Cl. 281—44)

1. A record sheet holder comprising holding means for a plurality of record sheets each having a column of indicia constituting items and appropriately designated spaces to receive indicia in alignment with the items and arranged in columns, the holding means including cooperating members to hold the record sheets in overlapped positions with the respective spaces thereof aligned, and an element movable over the record sheets and having alternately spaced opaque and transparent portions to expose indicia in like spaces of each record sheet and mask indicia in the other spaces aligned with the exposed spaces.



2,286,332
CHAIN LINK ATTACHMENT FOR TRAVELING WATER SCREENS
Lloyd G. Bleyer, Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin
Application February 1, 1940, Serial No. 316,726
7 Claims. (Cl. 210—175)



1. In combination with a chain composed of links having side bars, conveyor flights extending over the longitudinal edges of said side bars, spacer members spacing said flights from the longitudinal edges of said side bars, and resilient tensioning means holding each of said flights in spaced relationship with a chain link.

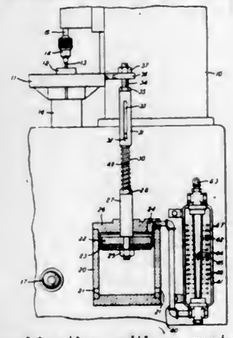
2,286,333
COATING ALLOY
Clinton Bowsher, Lima, Ohio, assignor to The Artkraft Sign Company, Lima, Ohio, a corporation of Ohio
No Drawing. Application June 14, 1941, Serial No. 398,113
1 Claim. (Cl. 75—166)

A compound for coating purposes comprising by weight approximately 7¼ parts bismuth, approximately 12½ parts tin, approximately ¾ part mercury, and approximately 79½ parts lead.

2,286,334
EXTRACTION PROCESS
Robert Louis Brandt, New York, N. Y., assignor to Coffee Products Corporation, New York, N. Y., a corporation of New York
No Drawing. Application June 7, 1941, Serial No. 397,083
3 Claims. (Cl. 99—71)

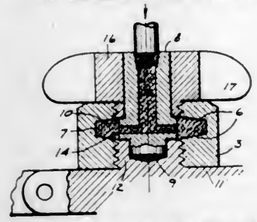
1. The process of producing a coffee extract which comprises extracting ground roasted coffee with ethylene oxide and removing the ethylene oxide from the extract.

2,286,335
INDICATOR
Rudolph S. Brescka and Edward C. Scott, Cranford, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application March 13, 1940, Serial No. 323,740
3 Claims. (Cl. 264—12)



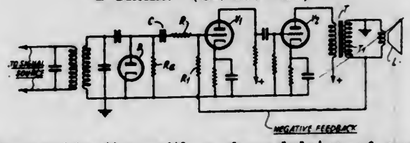
2. The combination with a material working machine having a reciprocal support and means to alternately move the support in a feeding direction and a return direction, of a transparent fluid passageway, graduations disposed adjacent thereto, means movable with the support to force a fluid through the passageway during movement of the support in the feeding direction, and an element disposed in the passageway and caused to move distances by the fluid, relative to the graduations, variable with variations in the speed of movement of the support to indicate the speed of movement of the support in the feeding direction.

2,286,336
SELF-LOCKING NUT AND METHOD OF MAKING SAME
Frank W. Brooke, Pittsburgh, Pa.
Application June 23, 1941, Serial No. 399,303
12 Claims. (Cl. 10—86)



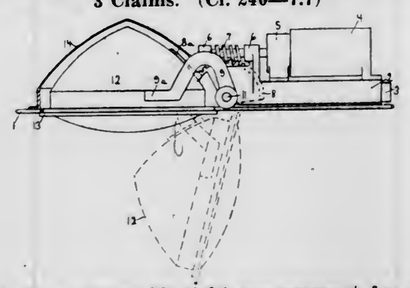
1. In the manufacture of self locking nuts, the method consisting in forming an interior annular cavity between the ends of the nut and filling said cavity with a thread engaging plastic fibrous substance by flowing same thereinto under pressure around an inner annular hole forming surface prior to and then effecting subsequent densification of said fibrous substance.

2,286,337
NEGATIVE FEEDBACK CIRCUIT
Lothar Brück, Berlin-Neutempelhof, Germany, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application November 18, 1938, Serial No. 241,122
In Germany November 27, 1937
1 Claim. (Cl. 250—20)



In combination with a demodulator of audio modulated carrier waves provided with a load resistor, an audio amplifier tube including at least a signal grid, cathode and plate, a second resistor connecting the high potential end of said load resistor to said grid, a grid biasing resistor in the space current path of said amplifier tube between said cathode and ground, an audio output circuit coupled to said amplifier plate and including an audio output transformer having its secondary in circuit with the voice coil of a loud speaker, one end of the transformer secondary being at ground potential, a degenerative audio voltage feedback connection between the opposite end of said secondary and the junction of said grid and said second resistor, said feedback connection being the sole conductive path from the signal grid to ground whereby said feedback path acts additionally as the sole bias path to apply the direct current voltage developed across said biasing resistor to said grid, the resistance value of said second resistor exceeding that of the demodulator and the load resistor, and said second resistor cooperating with the inherent grid to cathode capacity of the amplifier tube to provide a filter of carrier frequency currents.

2,286,338
RETRACTABLE LANDING LIGHT ARRANGEMENT FOR AIRCRAFT
William A. Bruno, Astoria, Long Island, N. Y., assignor, by mesne assignments, to Bruno Patents Inc., Long Island City, N. Y., a corporation of New York
Application August 1, 1941, Serial No. 405,041
3 Claims. (Cl. 240—7.7)



1. In a retractable light arrangement for aircraft, a light projecting device mounted to the outer structure of said aircraft; an opening in said structure, and means adapted to lower and

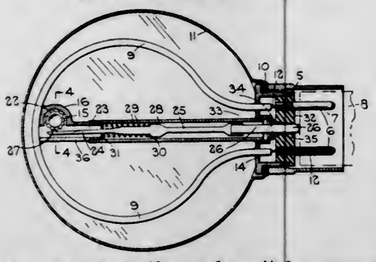
raise the light projecting device through said opening; said means holding said lighting device at three spaced points, and comprising a rotatable shaft, a worm gear fastened to said shaft, said worm gear having an extension thereon, said extension being directly fastened to said light projecting device, connecting elements arranged symmetrically and spaced apart a substantial distance on both sides of said worm gear, said elements being rigidly fastened to said shaft and to said light projecting device, a worm engaging said worm gear, and means adapted to rotate said worm in alternate directions.

2,286,339
INSULATED CONDUCTOR
Andrew C. Buerk and Edward Haberberger, St. Marys, Pa., assignors to Stackpole Carbon Company, St. Marys, Pa., a corporation of Pennsylvania
Application June 21, 1941, Serial No. 399,124
3 Claims. (Cl. 171—326)



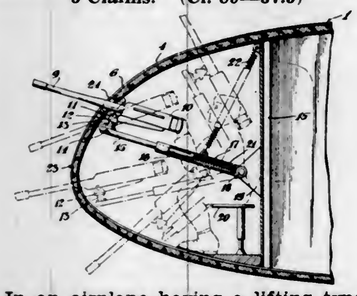
1. The combination with an electric brush and a flexible shunt conductor attached thereto, of a resilient wrapping surrounding the two portions of the conductor, said wrapping being under tension and held in position solely by frictional engagement with the conductor, and the edges of said wrapping being fused together with the seam between said two portions of the conductor.

2,286,340
ELECTRIC THERMAL SWITCH
Walter Henry Bulpitt, Birmingham, England
Application September 12, 1938, Serial No. 229,625
In Great Britain November 18, 1937
14 Claims. (Cl. 219—38)



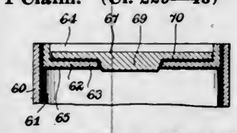
1. An electrical thermal switch comprising two coupling members one of which carries contact pins normally in engagement with sockets on the other member, a push-rod extending through one of said coupling members centrally of and parallel to said contact pins and engaging the other of said members, a spring urging said push-rod longitudinally in a direction to separate said coupling members, a pawl connected to said push-rod, a ratchet wheel co-operating with said pawl a downwardly projecting cylindrical stem on said ratchet wheel, a socket in which said stem is disposed, the cylindrical surface of said stem engaging the corresponding wall of the socket and being centralised thereby, and a mass of fusible metal disposed between the bottom of the socket and the end of the stem, said metal being adapted when solid to prevent rotation of said ratchet wheel, whereby said ratchet wheel is enabled to hold said push-rod in an inoperative position against the action of said spring, said fusible metal being adapted to melt at a predetermined temperature, so that said coupling members are separated by the resultant movement of said push-rod.

2,286,341
AIRPLANE FRONT GUNNERY MEANS
Vincent J. Burnelli, Keyport, N. J., assignor to Central Aircraft Corporation, a corporation of Delaware
Application May 31, 1938, Serial No. 210,895
5 Claims. (Cl. 89—37.5)



2. In an airplane having a lifting type fuselage, said fuselage having a hollow leading edge portion provided with a vertical slot, a cover member for said slot that is slidable therein, a carriage forming a part of said cover member, a gun mount in the form of a radius arm, comprising a fixed pivotal portion, a reciprocable portion and tensional means to extend said reciprocable portion, and a gun pivotally supported by said reciprocable portion, the barrel of said gun projecting through said slot to be movable with said carriage and said tensional means forcing said gun mount against said carriage whereby said gun mount follows the contour of the leading edge in its operation.

2,286,342
CONTAINER
Jose B. Calva, St. Paul, Minn., assignor, by mesne assignments, to Waldorf Paper Products Company, a corporation of Minnesota
Application December 23, 1937, Serial No. 181,304
1 Claim. (Cl. 229—43)



A container comprising a side wall, a liner of moisture impervious material coating the inner surface of said side wall, an end wall having a peripheral flange engageable within said side wall, a moisture impervious liner on said end wall extending over said peripheral flange, adhesive between said moisture impervious liner on said side wall and said moisture impervious liner on said end wall, and sealing means comprising a flat bearing portion shaped to fit within said peripheral flange, a plug on said bearing portion, a continuous unbroken liner covering the entire inner surface of said sealing means, said end wall having an aperture therein into which said plug extends, said plug projecting through said aperture, a moisture impervious film on said bearing portion and extending over said plug, and adhesive means interposed between said liner over said bearing portion and said end wall and between said plug and said aperture.

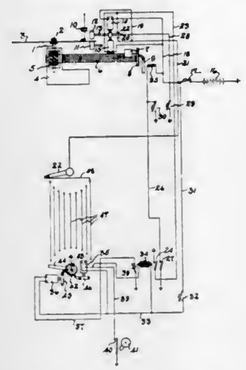
2,286,343
TREATMENT OF HYDROCARBON OILS
Vladimir L. Chechot, Philadelphia, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application December 9, 1939, Serial No. 308,429
8 Claims. (Cl. 196—40)

1. The process of acid refining viscous hydrocarbon oil with the production of acid sludge characterized by its ready pumpability, which comprises contacting said oil with sulfuric acid in the presence of an added small amount of finely-divided elemental sulfur, settling the resultant acid sludge, and separating the settled sludge from the oil.

2,286,344
PROCESS OF REFINING HYDROCARBON OIL
Vladimir L. Chechot, Philadelphia, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application February 16, 1940, Serial No. 319,262
9 Claims. (Cl. 196—40)

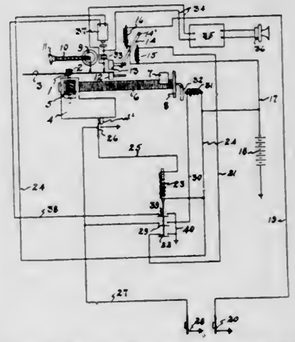
1. In the production of mineral white oil by fuming sulfuric acid treatment, the method which comprises applying said fuming acid in a plurality of multiple-dump treatments, each of said treatments comprising a plurality of successive steps of acid addition and agitation, and removing acid sludge from the treated oil only upon the completion of each of said multiple-dump treatments.

2,286,345
PAUSE CONTROL SYSTEM FOR DICTATION REPRODUCING MACHINES
Henry P. Clausen, White Plains, N. Y., assignor to The Gray Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application January 3, 1941, Serial No. 372,972
9 Claims. (Cl. 274—9)



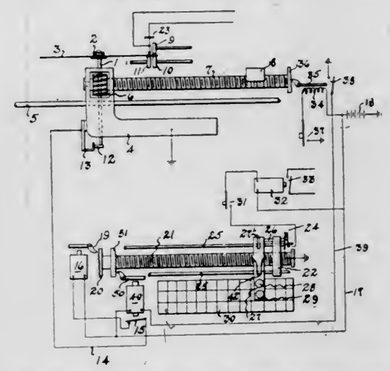
1. In a dictating machine, the combination with a record support, a reproducing device, and means for causing relative movement between said support and device, of means including a preselector for automatically initiating and interrupting said relative movement during one cycle of relative movement between the support and reproducing device at successive intervals whereby the periods of movement and rest may be made equal or unequal.

2,286,346
SOUND RECORDING AND REPRODUCING MACHINE
Henry P. Clausen, White Plains, N. Y., assignor to The Gray Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application January 4, 1941, Serial No. 373,078
9 Claims. (Cl. 274—9)



1. In a sound recording machine a record support, a sound recording head positionable to engage a record when mounted on said support, driving means for causing relative movement between said support and head in a recording direction, means for causing relative movement between said support and head in a back spacing direction, and a control device for simultaneously actuating said driving means and for actuating said back spacing means, whereby back spacing is caused each time the machine is started.

2,286,347
MARKING CONTROL SYSTEM FOR DICTATION MACHINES
Henry P. Clausen, White Plains, N. Y., assignor to The Gray Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application January 13, 1941, Serial No. 374,163
9 Claims. (Cl. 274—9)



1. In a machine of the type described, the combination including a sound recording machine having a record tablet support, a sound recording head, means for effecting relative movement therebetween in either direction, a marking apparatus, electromagnetic means for operating the marking apparatus and means operated by said first means for energizing said electromagnetic means whereby the marking ap-

paratus is at all times positioned to correspond to the relative position between the record tablet and the recording head.

2,286,348
HOLDING DEVICE FOR LAUNDRY PRESSING MACHINES
Ralph L. Custer, Garden City, N. Y.
Application June 15, 1940, Serial No. 340,688
6 Claims. (Cl. 38—12)

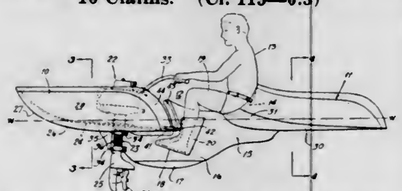


4. A laundry press including a buck and a pivoted press-head co-operating therewith for ironing shirts and the like, a pad mounted upon said buck to provide a yielding soft surface, a cut-out portion in said pad extending transversely of said buck near one end thereof, a shirt-tail-holder mounted upon the buck and lying within said cut-out portion, said tail-holder including a plurality of separate units each having needles projecting therefrom, individual springs for each of said units to press them upward so that their needles normally project above the upper surface of the buck, limiting means to prevent the upper surfaces of said units from rising above the level of said upper surface of the buck, said limiting means having no part extending above said level, said needles normally extending above the upper surface of said buck and through the material being ironed thereon, said needle-carrying units being separately and individually depressible under the pressure exerted by the application of the press-head to the buck, so that under the action of said springs the tops of the needles on all of said units will be pressed against the lowered press-head and still impale the material to be ironed, and said needles being automatically restored to extensible positions upon the withdrawal of the press-head.

2,286,349
PREPARATION OF SOLUTIONS OF CYANAMIDE IN LIQUID AMMONIA
Harold S. Davis, Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application July 25, 1941, Serial No. 403,997
5 Claims. (Cl. 23—190)

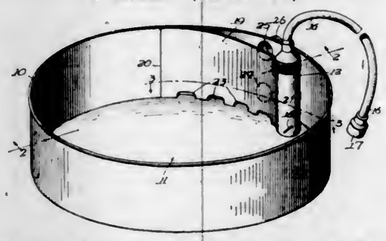
1. A method of producing free cyanamide which includes the steps of reacting in liquid ammonia an alkaline earth metal cyanamide with an ammonium salt having an acid radical which forms a liquid ammonia-insoluble alkaline earth metal salt.

2,286,350
AQUATIC DEVICE
Theodore R. Drake, Avalon, Calif.
Application July 1, 1940, Serial No. 343,464
16 Claims. (Cl. 115—0.5)



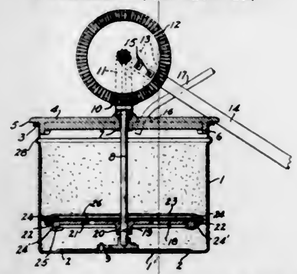
1. In an aquatic vehicle of the character described, the combination of: a front float and a rear float spaced apart so as to provide a rider's space between the same, said rear float having formed in the front end thereof a seat to receive the buttocks of the rider; a narrow vertically disposed connecting member extending from said rear float to said front float; foot rests for the feet of the rider; and power means carried by said front float, said power means comprising a propeller disposed below said front float and beyond the reach of the feet of the rider occupying said seat.

2,286,351
PRINT WASHER
Samuel Drucker, Chicago, Ill., assignor to Burke & James, Inc., Chicago, Ill., a corporation of Illinois
Application May 22, 1940, Serial No. 336,529
1 Claim. (Cl. 95—97)



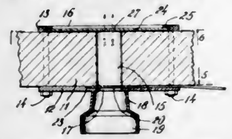
A print washer embodying a circular tank, a water inlet passage within and adjacent the wall of the tank, said passage having an outlet for discharging the water into and tangential to the wall of the tank, an upright eccentrically arranged baffle within the tank, one end of the baffle being secured to the wall of the tank, the other end of the baffle terminating adjacent said inlet passage, there being openings in the baffle adjacent the bottom of the tank, and a water discharge outlet leading from the space between the said baffle and the adjacent portion of the wall of the tank, the said inlet passage comprising an upright tubular member closed at its bottom and provided with a slot in its wall adjacent the bottom of the tank, said tubular member constituting a closure for the space between the baffle and the container wall.

2,286,352
VEGETABLE PEELER
Herbert W. Eakins, Springfield, Ohio
Application March 6, 1940, Serial No. 322,561
7 Claims. (Cl. 146—49)



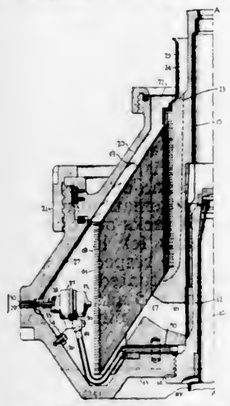
1. A machine for peeling vegetables provided with a metal inclosure having a metal disc near the bottom thereof, the interior surface of the inclosure and the upper surface of the disc being coated with an enamel containing abrasive particles, all of said particles being embedded in the enamel to such a depth that the enamel covers the greatest dimension of each particle.

2,286,353
DOOR SIGHT
Charles A. Ehehalt, Jr., White Plains, N. Y.
Application May 4, 1940, Serial No. 333,439
1 Claim. (Cl. 20—39)



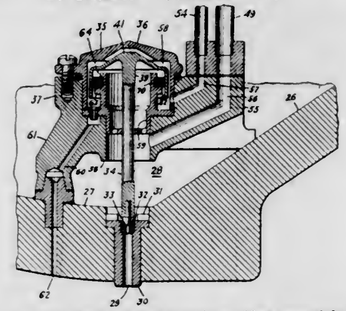
A door sight consisting of a front plate having an aperture with a transparent element therein, said element having a mirror surface with scratches therein presenting the appearance of a decorative design through which one can see outwardly of the door while the mirror surface reflects light outwardly adjacent the scratches to prevent view inwardly thereof, a rear plate having an aperture through which at least a portion of the scratched area is viewable, an eye tube on said rear plate coinciding with said aperture, whereby light is prevented from passing to the scratches in the mirror surface when the eye of a person is applied to the tube, the side of said rear plate opposite said front plate being provided with a recessed portion the area of which includes said aperture, a shutter disposed in said recessed portion between said rear plate and said door, and means for moving said shutter to open position after the light is blocked off by the person viewing outwardly through said tube.

2,286,354
CENTRIFUGAL SEPARATOR
Harold C. Fitzsimmons, West Chester, Pa., assignor to The Sharples Corporation, Philadelphia, Pa., a corporation of Delaware
Application February 13, 1940, Serial No. 318,672
15 Claims. (Cl. 233—20)



8. In a centrifugal separator, the combination comprising a centrifugal rotor having inner peripheral walls consisting of opposed tapering surfaces for effecting centrifugal sedimentation of solids from a mixture thereof with liquid, a discharge passage in the peripheral wall of said rotor in the zone of intersection of said surfaces, a valve co-acting with said discharge passage, a valve extension connected to said valve and extending inwardly into said rotor, a plurality of substantially parallel stratifying discs in said rotor extending in both directions longitudinally beyond said discharge passage, the outer circumferences of said discs and the peripheral walls of said rotor defining a relatively free liquid space within said rotor, fluid pressure actuated means within the liquid space of said rotor and lying between the outer circumferences of said discs and the inside liquid contact surface of the peripheral wall of the sedimentation chamber of said rotor interconnected with said valve extension for actuation of said valve, and means for supplying fluid under pressure to said fluid pressure actuated means to effect actuation of said valve.

2,286,355
CENTRIFUGAL SEPARATOR
Harold C. Fitzsimmons, West Chester, Pa., assignor to The Sharples Corporation, Philadelphia, Pa., a corporation of Delaware
Application April 16, 1941, Serial No. 388,749
10 Claims. (Cl. 233—20)

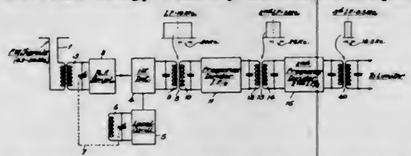


1. In a centrifugal separator, the combination comprising a centrifugal rotor provided with a discharge outlet adapted to be alternately opened and closed to control the discharge of an effluent from said rotor, a valve adapted to be moved into discharge-permitting and discharge-preventing positions, respectively, with respect to said discharge outlet, a valve extension connected to said valve and extending inwardly into said centrifugal rotor and a fluid pressure motor within said rotor secured to said rotor for rotation therewith and connected to said valve extension for operating the same, said fluid pressure motor including a member which is stationary with respect to said rotor and a member mounted for longitudinal movement relative to said stationary member in a direction having a substantial radial component under the impelling force of fluid pressure, said stationary member having an abutment for supporting a sealing member, and a sealing member mounted between said relatively movable and stationary members of said motor and adjacent said abutment at the inner side thereof, whereby the influence of centrifugal force generated by rotation of the rotor forces said sealing member into engagement with said abutment.

2,286,356
FREQUENCY MODULATION RECEIVER
Dudley E. Foster, South Orange, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 18, 1941, Serial No. 379,426
4 Claims. (Cl. 250—20)

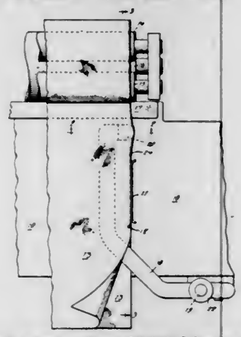
1. The method which includes beating fre-

quency modulated waves with local oscillations to produce beat waves whose center frequency deviation range is the same as the original signal deviation range, deriving from the beat energy a signal energy output which is the square root of the beat energy whereby the center frequency



is reduced in half with respect to the center frequency of said beat energy and whose center frequency deviation range is proportionately reduced, then further reducing by the same factor the center frequency of the desired signal energy, and partially limiting amplitude variation during each of said center frequency reduction steps.

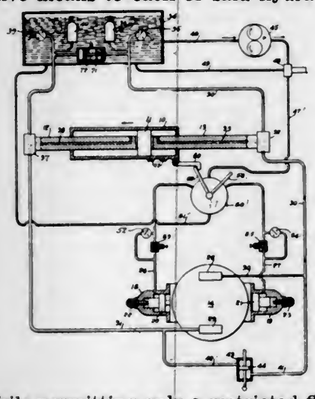
2,286,357
SEWING APPARATUS
Percy Gardner, Glen Ridge, N. J., and Ralph Kagan, Brooklyn, N. Y., assignors to Lever Bias Machine Corporation, New York, N. Y., a corporation of New York
Application January 15, 1941, Serial No. 374,452
4 Claims. (Cl. 112—217)



1. A sewing apparatus which comprises means for sewing material together, means for pulling the material away from the sewing point, and means for disposal between the sewing point and the pulling means to engage and stretch the sewed seam.

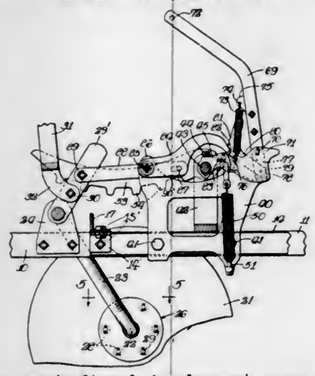
2,286,358
HYDRAULIC CONTROL FOR VARIABLE DELIVERY PUMPS
George M. Geiger, Mount Gilead, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del., a corporation of Delaware
Application February 2, 1940, Serial No. 316,956
5 Claims. (Cl. 103—38)

1. A hydraulic mechanism comprising a reversible-delivery liquid pump, reciprocable means for reversing the direction of delivery of said pump, a hydraulic motor having a motive element operatively connected to move said reciprocable means in one direction, a second hydraulic motor having a motive element operatively connected to move said reciprocable means in the other direction, a source of fluid pressure, and valve means for selectively connecting said fluid pressure to one or the other of said motors, and control means interposed between said valve means and each of said hydraulic motors and adapted to allow unrestricted flow of fluid from said valve means to each of said hydraulic mo-



tors, while permitting only a restricted flow from each of said motors to said valve means.

2,286,359
AGRICULTURAL IMPLEMENT
Cameron H. Gemberling, South Bend, Ind., assignor to Oliver Farm Equipment Company, a corporation of Delaware
Application April 6, 1939, Serial No. 266,306
14 Claims. (Cl. 97—73)

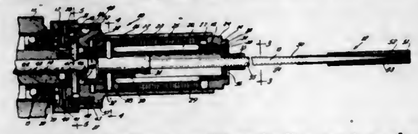


1. An agricultural implement comprising a frame, earth working tools carried by said frame, carrying wheels for said frame, an axle pivotally connecting said wheels with said frame, pinions carried by said wheels, freely movable racks carried by said frame and engageable with said pinions, means for automatically raising and normally holding said racks out of engagement with said pinions, means for locking said frame in raised position with respect to said wheels, and a single gravity actuated pawl for unlocking said locking means and actuating said racks into engagement with said pinions for raising said frame on said wheels.

2,286,360
TOOL SUPPORTING MEANS
Paul R. Gjertsen, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application April 27, 1939, Serial No. 270,274
9 Claims. (Cl. 51—184.3)

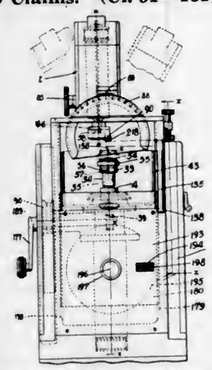
1. A supporting device for an abrading tool

having radially adjustable abrading elements and an associated member axially movable relatively to said elements for effecting such adjustments, said device comprising, in combination, a rotatable spindle, and means for connecting said member with said spindle for rotation therewith, means for adjusting the position of said connect-



ing means axially of said spindle, and a sleeve relatively rotatable with respect to said spindle for adjustably shifting said adjusting means and said connecting means axially of said spindle, said sleeve also having limited axial movement relative to said spindle for shifting said connecting means with respect to an adjusted position thereof.

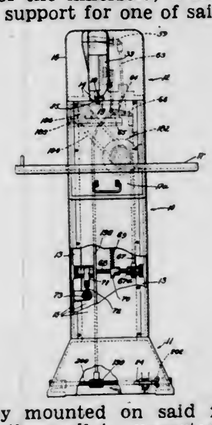
2,286,361
ABRADING MACHINE
Lloyd K. Goddu, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application March 27, 1939, Serial No. 264,329
9 Claims. (Cl. 51—131)



1. In a device of the character described the combination of a hollow housing having a work supporting spindle rotatably and slidably mounted therein and a head pivoted thereto, said pivot connection having a relatively wide surface bearing with means associated therewith for locking the head in different angular positions, a tool supporting spindle rotatably mounted in said head having an abrading tool attached thereto and adapted to be tilted through the tilting action of said head to different angular positions with respect to the longitudinal axis of the work supporting spindle, said hollow housing having an open wall portion and means for closing said opening for confining the abrading tool and work carried by said work supporting spindle internally of said housing.

2,286,362
METHOD OF AND MACHINE FOR LASTING BOOTS AND SHOES
Carl F. Hammann, Boston, Mass., assignor to North American Holding Corporation, Syracuse, N. Y., a corporation of New York
Application September 9, 1940, Serial No. 355,964
48 Claims. (Cl. 12—2)

16. A machine of the class described for lasting a shoe upper while said upper and an innersole are assembled upon a last, said machine including, in combination, a pair of feed rolls for gripping the skirt of the upper; means for rotating said feed rolls to cause the same to traverse the skirt of the upper circumambiently while said last and shoe parts are supported and guided past said rolls so as to cause the latter to progressively pull the same obliquely inwardly toward the middle of the innersole; a frame providing a stationary support for one of said rolls; a car-



rier movably mounted on said frame and by which the other roll is supported so that it is movable toward and from said first-mentioned roll when said carrier is adjusted on said frame; means operable to yieldingly urge said carrier in a direction to cause said rolls to grip the skirt of the upper; manually operable mechanism for adjusting said carrier on said frame; a wiper element, and means for operating said wiper element to cause the same to press the inpulled portion of the skirt down on to the innersole.

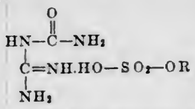
2,286,363
α-1-NAPHTHYL CINNAMIC NITRILE
Ingenuin Hechenbleikner, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application June 6, 1941, Serial No. 396,872
1 Claim. (Cl. 260—465)

α-1-naphthyl cinnamic nitrile.

2,286,364
GUANYL UREA SALTS OF MONOALKYL ESTERS OF SULPHURIC ACID
David Walker Jayne, Jr., Old Greenwich, and Harold Milton Day, Cos Cob, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application October 14, 1940, Serial No. 361,11
10 Claims. (Cl. 260—459)

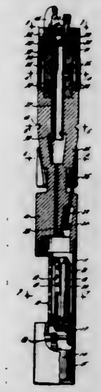
1. A method of preparing a guanyl urea alkyl hydrogen sulphate which comprises reacting together dicyandiamide, sulphuric acid and a member of the group consisting of primary and secondary alcohols.

7. A guanyl urea alkyl hydrogen sulphate of the formula:



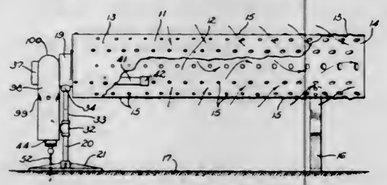
wherein R is an aliphatic hydrocarbon radical.

2,286,365
WELL PUMP
Jack Lane, Alhambra, Calif.
Application April 16, 1940, Serial No. 329,874
7 Claims. (Cl. 103—218)



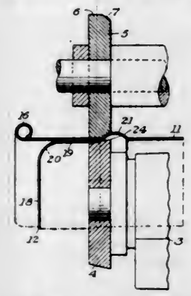
1. A well pump comprising in combination an electrically operable pump, flexible means by which the pump may be lowered into a well, means operable by pressure developed in the outlet from the pump upon energizing of the pump for setting the pump in the well and preventing leakage around it, and means operable by an upward pull upon the flexible means for draining fluid in the well above the pump to enable the pump to be pulled from the well by the flexible means.

2,286,366
ORCHARD HEATER
Walter A. Lea, Los Angeles, and Earl Vincent Ehrhardt, Altadena, Calif.
Application November 26, 1937, Serial No. 176,614
3 Claims. (Cl. 126—59.5)



1. An orchard heater for heating and moving large volumes of heated air horizontally along the ground to intermingle with the cool atmosphere around the trees and warm the same, comprising an elongated circular tubular member substantially completely closed at one end and open at the other, openings in the wall of said tubular member in somewhat spaced relation and extending from one end to the other thereof, means for storing a supply of fuel under pressure and conveying said fuel to orchard heaters distributed about an orchard, means in said tubular member for burning said fuel movement of the products of combustion thereof drawing atmospheric air inside said tubular member to support combustion and excess air to cool the heat of combustion and to cool the wall of said tubular member so that an injector effect is produced inside said tubular member which has the property of increasing the axial velocity flow of heated air from the open end of said tubular member, said large volume of heated air spreading out near the ground and warming the atmospheric air around and in the trees of the orchard.

2,286,367
METHOD OF FABRICATING A CONTAINER
Eli F. Mangold, Dayton, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va., a corporation of Delaware
Application June 28, 1940, Serial No. 342,964
3 Claims. (Cl. 113—120)



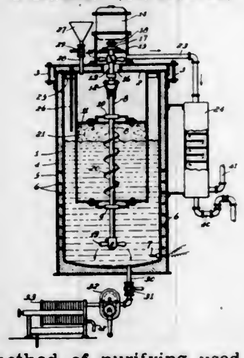
1. A method of joining metal parts with one part lying in contact with another and having an edge disposed opposite the metal of the second mentioned part intermediate the edges of the latter, comprising forming an elongated depression in the second mentioned part, positioning the first mentioned part in contact with the second mentioned part with said edge of the first mentioned part lying substantially at the edge of said depression and acting on said parts adjacent said edge of said first mentioned part by opposed welding rolls, one having a recessed portion into which the depressed metal at said depression extends and the other having a face inclined to its axis engaging said edge of said first mentioned part and with an end of said face entering said depression whereby said depression provides clearance for said end so that the latter does not engage the metal of the second mentioned part and by said welding rolls welding said edge of said first mentioned part to the metal of said second mentioned part.

2,286,368
GAME
Clyde W. May, Lancaster, Pa., assignor to Grey Iron Casting Company, Mount Joy, Pa., a corporation of Pennsylvania
Application July 16, 1940, Serial No. 345,704
4 Claims. (Cl. 35—69)



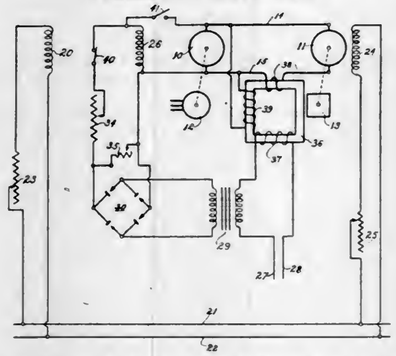
1. A set of jackstones for teaching characters to be used in a game of the class described, comprising a plurality of jackstones having body portions provided with a plurality of integral projections lying in a plane and said body portions being in the configuration of different characters respectively and also having a plurality of integral projections extending outwardly from the planes of the respective characters at opposite sides thereof whereby the body portions having the configurations of characters are adapted to be supported at an angle to a surface upon which the jackstones are thrown.

2,286,369
METHOD OF PURIFYING OIL
James R. Miller, Pittsburgh, Pa., assignor to Bocjl Corporation, Pittsburgh, Pa., a corporation of Delaware
Original application January 2, 1931, Serial No. 506,169. Divided and this application January 9, 1936, Serial No. 58,343
3 Claims. (Cl. 196—16)



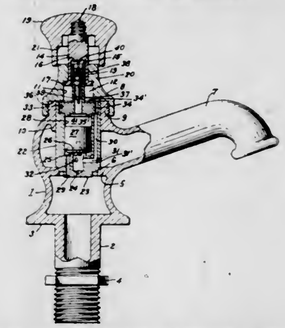
1. The method of purifying used lubricating oil, comprising mixing a solid impurity-adsorbing material with said oil, mechanically agitating the mixture heated to a temperature to cause volatile impurities to be liberated from the oil, while contacting the surface of the oil body with air, withdrawing vapors of volatile impurities from the oil, and treating the oil to separate solid material therefrom.

2,286,370
ELECTRICAL CONTROL SYSTEMS
Lloyd E. Miller, Cleveland, Ohio, assignor to The Reliance Electric & Engineering Company
Application December 20, 1940, Serial No. 370,925
3 Claims. (Cl. 172—239)



1. The combination with a source of alternating current, a generator and a motor connected in loop armature circuit relation with each other, and a variable field winding for the generator to vary the voltage thereof and thus the speed of the motor, of regulation means to regulate the variable field winding, said regulation means comprising a transformer having a primary and a secondary winding, a rectifier, and a saturable core having at least three windings, means for connecting one of said windings in series with the loop armature circuit, means for connecting the second winding across the loop armature circuit, means for connecting the third winding and the primary winding of the transformer in series with the source of alternating current, the first and second winding addatively magnetizing the core to govern the impedance of the third winding and the voltage impressed upon the primary winding, said secondary winding energizing the rectifier to produce a direct current for energizing the variable field winding of the generator, the magnetomotive force produced by the second winding, under conditions of high generator voltage, substantially saturating the core and thus preventing the magnetomotive force of the first winding from materially varying the flux in the core and the impedance drop of the third winding, and the magnetomotive force produced by the second winding, under conditions of low generator voltage, being relatively small and enabling the magnetomotive force of the first winding to greatly vary the flux in the core and the impedance drop of the third winding, the variable flux condition in the core giving a greater regulation effect at low generator voltages than at high generator voltages.

2,286,371
RETARDED SELF-CLOSING VALVE
James F. Molloy, Oakland, Calif.
Application February 28, 1941, Serial No. 380,976
4 Claims. (Cl. 137—139)

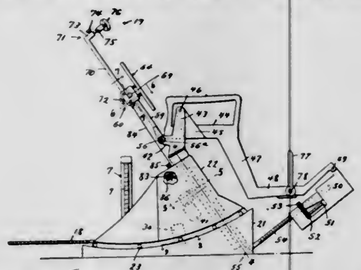


1. A valve in the class described including a body having a partition therein and an inlet and an outlet on opposite sides of said partition respectively; a valve housing rising from said partition and having an internal chamber closed at both ends except for an inlet and an outlet at the top and bottom respectively; and having a recess with a side outlet through the wall of said housing and communicating with a by-pass extending longitudinally through said wall and leading to an enclosed space in the body above said housing; a spring urged valve in said space controlling the top outlet from the chamber in said housing; external means for operating said valve; and an independent valve guided in said chamber and adapted to close said recess.

2,286,372
ADJUSTABLE CHAIR
Richard W. Page, Chappaqua, N. Y.
Application July 7, 1939, Serial No. 283,269
8 Claims. (Cl. 155—25)

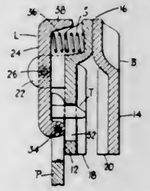
7. A chair for dental work and the like, said chair comprising a lower stationary section and an upper movable section, said stationary section being formed with tracks curved out of a horizontal plane with reference to an arbitrary point above the chair, said upper movable section having conformably curved means supportably rest-

ing on said tracks, and means for swinging said movable section relative to said stationary section on the horizontal axis of said arbitrary



point, and a vertically adjustable platform having an opening accommodating said stationary section.

2,286,373
LOCKING SLIDER
David Rabinow, Elizabeth, N. J., assignor to Conmar Products Corporation, Newark, N. J., a corporation of New Jersey
Application September 13, 1941, Serial No. 410,670
14 Claims. (Cl. 24—205)

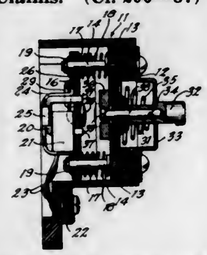


3. A locking slider for a slide fastener, said slider comprising a lug, a lever pivoted on the lug, a pull pivoted on the lever, a locking tooth on the pull, and a spring operating on said lever and urging the pull-carrying end of the lever toward the slider in order to bring the locking tooth of the pull into locking engagement with the elements of the slide fastener, said tooth being so disposed and dimensioned that it is moved away from the fastener elements to unlock the slider when the pull is raised preparatory to moving the slider, said movable combination of lever and pull having two parts adapted to bear simultaneously against the slider in order to limit outward movement of the pull when the slider is unlocked.

2,286,374
FLOTATION PROCESS
Philip A. Ray, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 16, 1939, Serial No. 304,707
9 Claims. (Cl. 209—166)

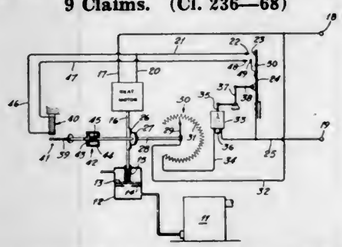
1. A process for the froth flotation of sulfide ores which comprises frothing an aqueous suspension of said ores in the presence of a frothing agent comprising major proportions of pine oil and a hydrocarbon compound and a minor proportion of an emulsifying agent selected from the group consisting of sulfonated pinene-cresol condensate, sulfonated pinene-phenol condensate, sulfated dehydroabietyl alcohol, sulfonated higher fatty acid esters, ethanolamine-castor oil condensates and triethanolamine-castor oil condensates.

2,286,375
SAFETY SWITCH
William A. Ray, Los Angeles, Calif.
Application September 26, 1941, Serial No. 412,379
5 Claims. (Cl. 200—87)



1. In a manually-operable electromagnetically-controlled switch: a base member; a pair of spaced contact elements insulatingly mounted in said base member and exposed at one surface thereof; a member movable toward and away from said surface and biased in said last-named direction; said movable member comprising a conducting member cooperable with said contact elements to bridge the same when moved toward said surface; a manually operable rod extending through an opening through said base member; and an electromagnet comprising a core member and a cooperable armature member; one of said electromagnet members being mounted on the end of said rod adjacent said surface and the other on said movable member; said rod being movable in one direction to a position in which the electromagnet members engage each other and are then magnetically retained in engagement while the core element is energized, so that subsequent movement of the rod in an opposite direction is effective to move said movable member, against the force of said bias, to a position wherein said contact elements are bridged by said conducting member.

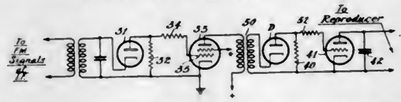
2,286,376
CONTROL SYSTEM
William A. Ray, Glendale, Calif., assignor to General Controls Company, a corporation of California
Continuation of application Serial No. 121,575, January 21, 1937. This application June 25, 1940, Serial No. 342,332
9 Claims. (Cl. 236—68)



6. In combination: means for changing the temperature of a space; a member movable in opposite directions between limiting positions, and capable of assuming a plurality of other positions intermediate thereof, for varying the operation of said temperature changing means; a heat motor for moving said movable member; means in said space, and responsive to the temperature thereof, for controlling the energization of said heat motor; means interconnecting said temperature responsive means and said movable

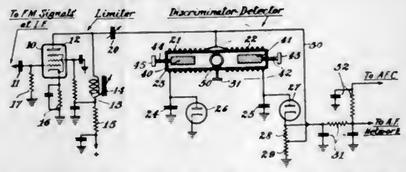
member for positioning the same in accordance with the temperature requirements of said space; and means responsive to an increment of movement of said movable member in only one of said directions for effecting energization of said heat motor, said last-named means including a slip-clutch.

2,286,377
FREQUENCY MODULATION RECEIVER
Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 31, 1940, Serial No. 354,982
3 Claims. (Cl. 250—27)



1. In a receiver of the type wherein high frequency waves modulated in frequency to a wide frequency deviation in accordance with audio frequency modulating voltage are converted to intermediate frequency waves of frequency which is low compared to said high frequency, but higher than the maximum deviation of frequency of said high frequency waves, means, including a high vacuum electron discharge device characterized by continuous control of its output current by its input voltage, for producing, from such of said intermediate frequency waves as exceed a predetermined amplitude, amplitude limited waves, each of the limited waves having a substantially fixed difference between maximum and minimum values of intensity and each having at least one extremum of intensity which remains substantially constant throughout a large portion of the half-period of said limited wave, a resistance element, a reactance coupling element for impressing said limited waves upon said resistance element, the time constant of the combination of said resistance and reactance elements being substantially less than the duration of said constant intensity portion of said limited wave, means for smoothing out current pulses in said resistance produced by changes in intensity of said limited waves to said extremum of intensity from the opposite extremum, indicating means for said smoothed out pulses, and rectifying means for preventing current pulses in said resistance, produced by changes in intensity of said limited waves from said extremum of intensity to the opposite extremum, from affecting said indicating means.

2,286,378
FREQUENCY MODULATED WAVE DETECTOR
Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 31, 1940, Serial No. 354,983
11 Claims. (Cl. 250—27)



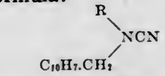
1. In combination with a source of frequency modulated carrier waves, a transmission tube having its input electrodes coupled to said source, a detection network comprising a pair of series resonant circuits arranged in parallel, each of said resonant circuits being tuned to a frequency spaced from the center frequency of the carrier waves in opposite directions, and an impedance matching network coupling the output electrodes of said tube to the junction of said pair of resonant circuits and said matching network comprising an inductance in shunt across the said output electrodes and a condenser in series with said inductance.

2,286,379
PURIFICATION OF ETHYL CHLORIDE
Harold A. Robinson, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application May 1, 1941, Serial No. 391,288
5 Claims. (Cl. 260—652)

5. The method of removing acetylene and other triple bond unsaturates, and compounds containing carbon-to-sulfur double bonds from ethyl chloride, which comprises bringing ethyl chloride containing such impurities into intimate physical contact with an aqueous solution of a water-soluble permanganate at a pH between 7 and 13, said solution being from 0 to 2.5 normal with a water-soluble alkali, until the reduction of permanganate ceases, separating the spent permanganate liquor from the so-treated ethyl chloride, then bringing this ethyl chloride into intimate physical contact with an aqueous alkaline solution of hydrogen peroxide until the sulfate content of the aqueous phase no longer increases, and separating the aqueous layer from the so-purified ethyl chloride.

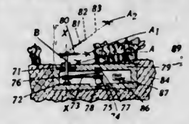
2,286,380
ALKYL NAPHTHYLMETHYL CYANAMIDES
Richard O. Roblin, Jr., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application October 5, 1940, Serial No. 359,900
4 Claims. (Cl. 260—551)

1. As a new compound, a disubstituted cyanamide of the formula:



wherein R is an aliphatic hydrocarbon radical.

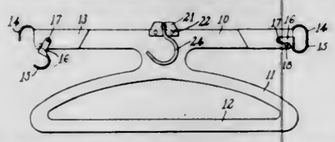
2,286,381
METHOD AND DEVICE FOR FORCED TAKE-OFF AND FORCED LANDING OF AIRPLANES AND AIRSHIPS
George Alexis Rubissow, New York, N. Y.
Application March 14, 1939, Serial No. 262,239
10 Claims. (Cl. 244—63)



1. A device for launching or landing an airplane comprising a supporting frame, a vertical shaft mounted thereon, a motor to rotate the said shaft, means to control the speed of rotation of the said shaft, an arm provided on the said shaft, a flexible connection mounted on the free end of the said arm, means to wind and unwind

the said flexible connection during the said rotation, means attached to the end of the said flexible connection to connect the said airplane with the said flexible connection, a part near the end of the said flexible connection being provided with means to lift the said end of the said flexible connection, said means consisting of a hollow wing filled with light gas, the front end of the said wing being raised.

2,286,382
GARMENT HANGER
Blacy A. Russo, New Haven, Conn.
Application August 1, 1940, Serial No. 349,174
2 Claims. (Cl. 223—88)



1. A garment hanger having a garment supporting portion, a rigid bar secured to and disposed above said portion, said bar having supporting means at its opposite ends, said means comprising an upper clamp jaw of arcuate shape fixed to the bar and projecting from the end thereof, and a lower jaw of similar shape pivoted to the bar to cooperate with the first-named jaw to form a closed clamp to encircle a supporting member, and releasable means to hold said pivoted jaw in closed position.

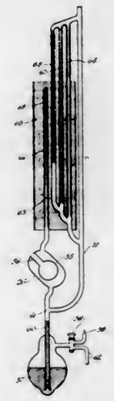
2,286,383
SPEED FASTENER
Charles D. Ryder, Covington, Ky., assignor to The National Colortype Company, Bellevue, Ky., a corporation of Kentucky
Application June 26, 1941, Serial No. 399,813
9 Claims. (Cl. 85—36)



1. In a speed fastener, the combination of a toggle nut comprising a V-shaped spring plate with a central longitudinal rib having an opening at the apex of the V, and a fastening element extending through said opening engaged by the edges of the rib forming the opening, whereby the withdrawal movement of the fastening element will cause the said edges to grip the fastening element tighter and tighter.

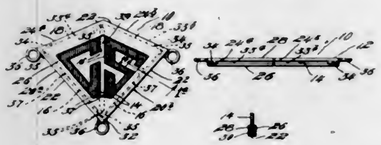
2,286,384
APPARATUS FOR GAS ANALYSIS
Robert Thomas Sanderson, Sierra Madre, Calif., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application May 20, 1940, Serial No. 336,244
9 Claims. (Cl. 73—51)

1. A Microvol for the analysis of gaseous and vaporizable substances comprising a trap for collecting a sample of at least one such substance, means for cooling said trap to condense said substance within said trap, a liquid reservoir in communication with said trap, a measuring tube closed at its upper end and communicating through its lower end with said trap, a second measuring tube communicating with said liquid reservoir, and means for forcing liquid from said reservoir directly into said second measuring tube



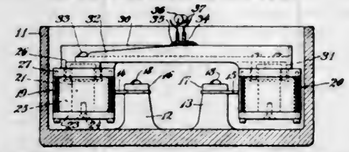
and also through said trap and then into the first-mentioned measuring tube.

2,286,385
JEWELRY DISPLAY DEVICE
Charles Silverman, Providence, R. I.
Application July 5, 1940, Serial No. 343,958
5 Claims. (Cl. 40—140)



4. A jewelry finding, comprising a skeleton frame having continuous edge walls including equilateral side walls radial to a common center, a continuous front wall comprising portions projecting inwardly from the edge walls thereof a sufficient distance to overlap the edges of individual insignia members inserted therein and a continuous rear wall having portions projecting inwardly from the edge walls thereof at least as far as said front wall portions, a plurality of interchangeable insignia members of substantially equal size and shape contained within said frame between said front and rear walls, each also having equilateral side walls of the same length as the side walls of the frame and radial to the same center, the circumferential distance between the side walls of the frame being a multiple of the circumferential distance between the side walls of each insignia member, whereby said frames and a sufficient group of insignia members to fill a demand for specific groups of insignia, all of a single size and shape may be sold in bulk to a retail jeweler and the specific insignia members to make up a particular insignia group selected from said main group and inserted by said retail jeweler on specific order, at least one of the edge walls of said frame having an open portion for the selective insertion of the individual insignia members therein, said frame having means theeron for retaining the inserted individual insignia members in selected position in said frame.

2,286,386
SEISMOMETER
Daniel Silverman, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application December 7, 1939, Serial No. 308,099
15 Claims. (Cl. 177—352)



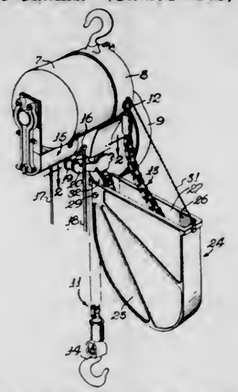
1. A seismometer comprising a case, two coils, two magnets, one of said coils being disposed in the field of one of said magnets and the other of said coils in the field of the other of said magnets, an elastic suspension constructed and arranged to restrain relative motion between one of said coils and its associated magnet except in a single degree of freedom, a second and independent elastic suspension constructed and arranged to restrain relative motion between the other of said coils and its associated magnet except in a corresponding single degree of freedom such that small relative motions between each of said coils and its associated magnet are at least approximately parallel to the same straight line and means for electrically interconnecting said coils to combine their outputs when relative motions between the two coils and their respective associated magnets are in the same sense and to oppose their outputs when relative motions between said coils and their respective associated magnets are in opposite senses, whereby said seismometer is responsive only to forces having a translational component in the direction of said straight line and is not responsive to rotational forces.

2,286,387
FIREPLACE IMPLEMENT
James Hopkins Smith, Falmouth Foreside, Maine
Application March 25, 1941, Serial No. 385,182
3 Claims. (Cl. 294—14)



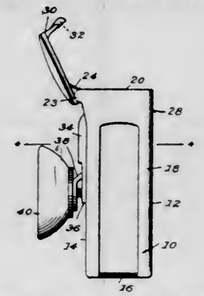
1. An implement consisting of a tubular staff having therein a head having its base attached to one end of said staff, the outer end of said head being pointed, a hook-like prong extending laterally from said head, a plurality of passages formed at the headed end of said staff, said passages providing communication between the interior of said staff and the exterior of its headed end and being of less aggregate cross-sectional area than the cross-sectional area of the interior of said staff, and an opening at the opposite end of said staff.

2,286,388
HOIST
Ralph E. Smith, Muskegon Heights, Mich., assignor to Manning, Maxwell & Moore, Inc., Muskegon, Mich., a corporation of New Jersey
Application June 26, 1941, Serial No. 399,845
5 Claims. (Cl. 254—168)



3. A hoist having, in combination, a housing, a lifting sprocket journaled in said housing, a roller chain reeved over said sprocket and having one end anchored to the housing and its other end adapted for connection to a load to be lifted, a member mounted on said housing below said sprocket, a container having one end pivotally attached to said member for receiving the tail portion of the chain between the sprocket and the anchored end of the chain, and a flexible connection between the other and of said container and said housing, said member having an opening therein for the passage of said tail portion of the chain and an arm depending at one side of said opening and operative to guide the chain into the container.

2,286,389
CIGARETTE CASE
George Sowin, Berwick, Pa.
Application September 29, 1939, Serial No. 297,159
2 Claims. (Cl. 248—224)

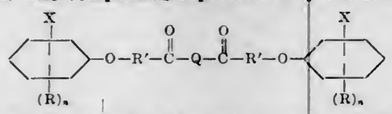


2. In a cigarette case having a rigid and self-sustaining body portion of rectangular cross section and having an open end adapted to receive a cigarette package, a longitudinal socket formed medially in one of the wider walls of said body, an open end at the bottom of said socket adapted

to receive a supporting member and a supporting member for said case within said socket, said socket and said supporting member each having a non-circular cross section of substantially the same shape whereby said socket and said holding member are maintained in non-rotative relation with respect to each other.

2,286,390
PHENOXYACYLAMINO DERIVATIVES
Chiles E. Sparks, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 13, 1939, Serial No. 304,161
10 Claims. (Cl. 260—558)

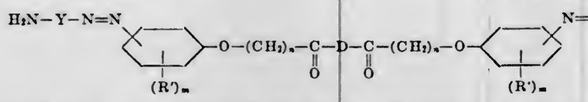
1. The compounds represented by the formula



in which each R is from a group consisting of hydrogen, straight and branched chain acyclic alkyl having one to four carbons, the corresponding alkoxy groups, and halogen; n is 1 to 2; each X is one of a group consisting of nitro and amino; each R' is from a group consisting of straight and branched chain alkyl groups having 1 to 4 carbons; and Q represents a radical of the group consisting of polymethylene diamine radicals having 2 to 10 methylene groups and straight and branched chain alkyl derivatives thereof in which the substituted groups are straight and branched chain alkyl groups having 1 to 3 carbons and in which the substituted groups occur once to twice the number of methylene groups, radicals of the diamino-cyclo-alkane series having 3 to 6 carbons in the ring and ring substituted straight and branched chain alkyl derivatives thereof in which the substituted groups have 1 to 3 carbons and are present once to two less than the number of carbons in the ring and radicals of the diazacycloalkane series having 3 to 4 carbons in the ring and the straight and branched chain alkyl derivatives thereof in which the substituted groups have 1 to 3 carbons and are substituted in the ring once to twice the number of carbons in the ring.

2,286,391
AZO DYE
Chiles E. Sparks, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 25, 1940, Serial No. 342,289
5 Claims. (Cl. 260—154)

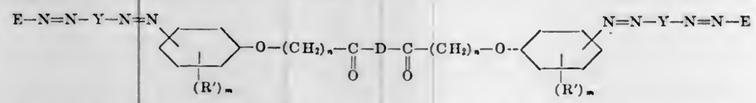
1. An azo compound represented by the formula



in which D represents a radical of the group consisting of the polymethylene diamines having 2 to 10 methylene groups and the straight and branched chain alkyl derivatives thereof in which alkyl has 1 to 6 carbons and in which the methylene groups are substituted once to twice the number of methylene groups, a radical of the diamino-cyclo-alkane series having 4 to 6 carbons in the ring and the mono- and di-methyl derivatives thereof, and a radical of the diazacyclo-alkane series having 3 to 6 carbons in the ring and the mono- and di-methyl derivatives thereof; n is 1 to 6; each R' is from the group consisting of hydrogen, alkyl having 1 to 6 carbons, the corresponding alkoxy groups, halogen, CN, carboxy and sulfonic acid; m is 1 to 4; and each Y—NH_2 is the radical of a coupling component from the group consisting of arylamines of the benzene and naphthalene series, amino naphthol sulfonic acids, amino-phenyl-amino-naphthol sulfonic acids, amino-benzoylamino-naphthol sulfonic acids, amino-benzoylamino-benzoyl-amino-naphthol sulfonic acids and amino-phenyl pyrazolones.

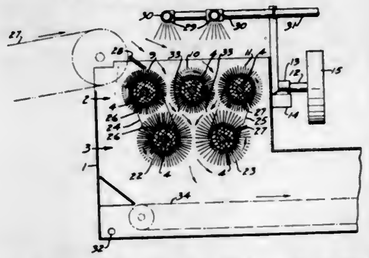
2,286,392
AZO DYE
Chiles E. Sparks, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Original application June 25, 1940, Serial No. 342,289. Divided and this application November 14, 1940, Serial No. 365,610
12 Claims. (Cl. 260—154)

1. An azo compound represented by the formula



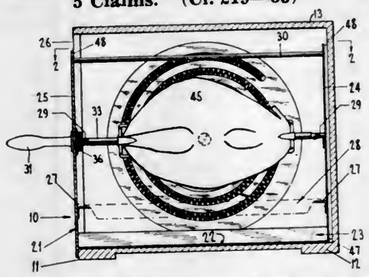
in which D represents a radical of the group consisting of the polymethylene diamines having 2 to 10 methylene groups and the straight and branched chain alkyl derivatives thereof in which alkyl has 1 to 6 carbons and in which the methylene groups are substituted once to twice the number of methylene groups, a radical of the diamino-cyclo-alkane series having 4 to 6 carbons in the ring and the mono- and di-methyl derivatives thereof, and a radical of the diaza-cyclo-alkane series having 3 to 6 carbons in the ring and the mono-di-methyl derivatives thereof; n is 1 to 6; each R' is from the group consisting of hydrogen, alkyl having 1 to 6 carbons, the corresponding alkoxy groups, halogen, CN, carboxy and sulfonic acid; m is 1 to 4; and each Y is the radical of a coupling component from the group consisting of arylamines of the benzene and naphthalene series, amino naphthol sulfonic acids, amino-phenyl-amino-naphthol sulfonic acids, amino-benzoylamino-naphthol sulfonic acids, amino-benzoylamino-benzoyl-amino-naphthol sulfonic acids and amino-phenyl pyrazolones; and each E is the radical of one of a group consisting of 1-phenyl-3-methyl-5-pyrazolone, meta-toluylene diamine, acetoacetanilide and beta naphthol.

2,286,393
VEGETABLE CLEANER
Joseph Thomas, Walnut Grove, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application June 6, 1938, Serial No. 212,053
24 Claims. (Cl. 146—202)



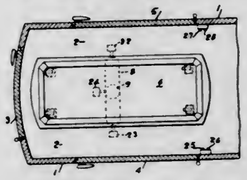
1. In a vegetable cleaning machine, a series of brush rolls made up of a plurality of initial rolls and a terminal roll, means mounting said brush rolls in adjacent parallel relation to form a brushing bed over which vegetables may be advanced transversely of the rolls, means for driving the initial rolls in a common direction of rotation corresponding to the direction of advance of said vegetables, and means for driving the terminal roll in a direction of rotation opposite the others to arrest the advance of the vegetables, the spacing of the terminal roll and the oppositely rotating adjacent roll and the ratio of their speed of rotation being such that the vegetables resting on said terminal roll and the oppositely rotating adjacent roll are discharged downwardly therebetween and in brushing engagement therewith.

2,286,394
ELECTRIC BARBECUE BROILER
Isidore Togut, New York, N. Y.
Application March 29, 1941, Serial No. 385,780
5 Claims. (Cl. 219—35)



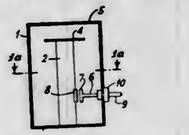
1. A combined electric oven and barbecue-type broiler comprising in combination, a container having an opening at one end and having electric heating elements vertically secured on opposite walls thereof, a tray having a drip pan and two vertical plates, one of said plates being adapted to substantially close said opening except an upper vent for exit of vapor from said oven, said plates having brackets facing each other, said closure plate having a hollow handle rotatably mounted centrally thereof, said handle being frictionally held on said plate, a skewer having one end thereof adapted to be gripped in said hollow handle, one of said brackets having a central recess to receive the other end of said skewer, whereby a fowl may be secured to said skewer and rotatably adjusted to various angular positions and frictionally held in said adjusted positions, said fowl remaining supported when inside or when moved outside of said container for inspection, said fowl being supported equidistant between said heating elements and being broiled simultaneously and equally from opposite sides.

2,286,395
HEARSE
Harry A. Toulmin, Jr., Dayton, Ohio, assignor to Commonwealth Engineering Corporation, Wilmington, Del., a corporation of Delaware
Original application March 27, 1939, Serial No. 264,299. Divided and this application April 28, 1941, Serial No. 390,660
4 Claims. (Cl. 214—83)



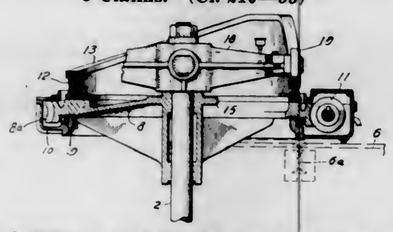
1. In combination, a hearse having sides, a door opening in one of said sides, a table mounted upon a floor in said hearse parallel to the sides of the hearse and having its ends projecting beyond the edges of said door opening, a pivot for said table disposed within the confines of said table, said table being so proportioned and so disposed with respect to said sides and door opening that it would strike one of said sides if rotated about said pivot, and hydraulic means for simultaneously moving said pivot laterally and causing said table to rotate about said pivot in such manner to project said table through said opening while preventing contact of the table with said sides.

2,286,396
TUNED CIRCUIT
Bertram Trevor, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application June 20, 1940, Serial No. 341,473
10 Claims. (Cl. 178—44)



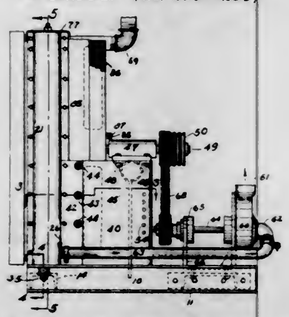
1. A resonant circuit comprising a pair of spaced conductors forming a tuned circuit, means for tuning said resonant circuit comprising an electrically closed path of low resistance placed in the magnetic field of said circuit, a metallic element mounted on one conductor of said pair and located in the space between said conductors at an angle to the lengths of said conductors and cooperating with said electrically closed path to provide an auxiliary capacitance between said spaced conductors, said closed path having a surface adjacent said metalilc element of substantially the same contour to provide maximum coupling thereto when said surface and metallic element are parallel to each other, said auxiliary capacitance being substantially a maximum when the number of magnetic lines interrupted by said path is a minimum, and vice versa.

2,286,397
APPARATUS FOR TREATING SETTLED SOLIDS IN LIQUID-SOLIDS MIXTURES
Robert George Albert Weiss and Henry John Talbot, The Hague, Netherlands, assignors to The Dorr Company Inc., New York, N. Y., a corporation of Delaware
Application July 7, 1939, Serial No. 283,180
In Great Britain July 7, 1938
5 Claims. (Cl. 210—55)



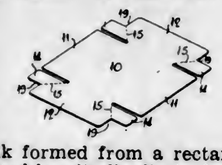
1. Settling apparatus having a settling tank and load responsive sludge coveying means therefor comprising a rotary driven vertical member carrying sludge impelling elements operating in said tank, an annular member substantially concentric with said vertical member and provided with an upwardly extending cam construction presenting a similarly concentric cam surface providing a continuous track having in serial arrangement a plurality of elevated and depressed portions, and means for cooperatively engaging said track, said annular member and said track engaging means coacting to transmit driving torque to said vertical member and adapted to lift said vertical member in response to torque reaction from overload on the sludge impelling elements because of said cam engaging means being adapted to move relatively over and past the elevated portions of said track in response to said overload.

2,286,398
HEAT EXCHANGER
Fred M. Young, Racine, Wis.
Application May 17, 1939, Serial No. 274,099
2 Claims. (Cl. 257—259)



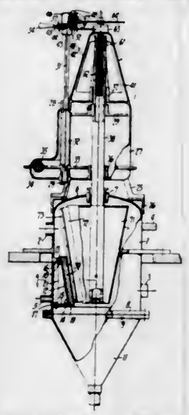
1. A device of the class described, comprising an elongated rigid frame, a heat exchange core mounted on the rear end of said frame, said core comprising vertically arranged headers, their bottom ends being flat and resting in direct metal to metal contact on the frame, a multiplicity of closely spaced finned tubes forming operating connections between said headers, a bolt in the bottom of said headers, enlarged openings in said frame through which said bolts extend, yielding means positioned on said bolts and under said openings, means on said bolts adapted to apply pressure on said yielding means to thereby yieldingly hold said header ends and frames together.

2,286,399
COLLAPSIBLE BOX
Walter A. Becker, Charlotte, N. C., assignor to Old Dominion Box Company, Lynchburg, Va., a corporation of Virginia
Application March 9, 1939, Serial No. 260,792
1 Claim. (Cl. 229—32)



A box blank formed from a rectangular piece of paper creased longitudinally to form a pair of inwardly foldable sidewalls whose combined width is more than the width of the bottom, said blank having a slot spaced from each corner of the blank a distance substantially the same as the width of the sidewalls, both edges of said slot being perpendicular to the outer edge of the side wall said blank also being creased transversely in alinement with said slots to form inwardly foldable end walls of the same width as the sidewalls, said end walls having a tab extending from each end and being creased in alinement with the creases defining the sidewalls, each of said tabs having a notch cut in the corner remote from the side walls, said notch having its sides parallel to the sidewalls and end walls of the blank and each of said tabs having a 45 degree crease line connecting the base of said slot with the apex of said notch.

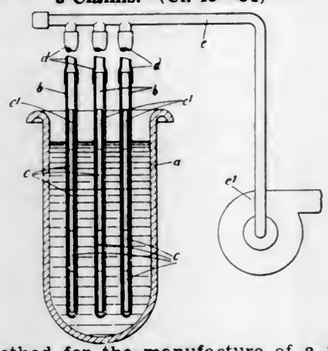
2,286,400
FILTER
James M. Chalmers, East Orange, N. J., assignor to Oliver United Filters Incorporated, Oakland, Calif., a corporation of Nevada
Application October 21, 1939, Serial No. 300,596
2 Claims. (Cl. 210—186)



1. A filter comprising: a filter cell provided with a conical filtering surface formed of a substantial layer of comminuted material and designed to be subjected to a differential filtering pressure; a longitudinally movable rotary shaft coaxial with said filtering surface and provided with a cutter arranged to rotate therewith and

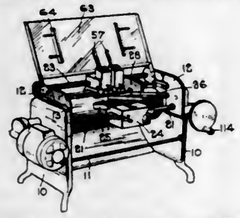
describe a conical surface of revolution over said filtering surface; a longitudinally immovable shaft coaxial and having threaded engagement with said longitudinally movable shaft; a drive shaft adjacent and parallel to said longitudinally movable shaft; means for driving said longitudinally movable shaft so as to advance said cutter into said filtering surface from said drive shaft; a plurality of gears of varying sizes driven by said drive shaft; a gear carried by said longitudinally immovable shaft; and means for selectively meshing said gear with any one of said plurality of gears.

2,286,401
MANUFACTURE OF GLASS BARRELS FOR SYRINGES AND OF LIKE TUBULAR ARTICLES
Samuel James Everett, Thornton Heath, England
Application February 26, 1940, Serial No. 320,973
In Great Britain March 22, 1939
3 Claims. (Cl. 49—84)



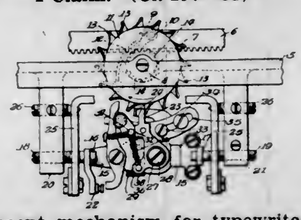
1. Method for the manufacture of a tubular glass article of accurate internal dimensions, comprising applying an oversize glass tube closed at one end to a mandrel of accurate size, immersing said tube with its contained mandrel in a liquid maintained at a temperature at which the glass becomes soft but below the temperature at which the glass becomes sticky, and applying vacuum to the interior of the tube while immersed whereby the total external pressure due to vacuum and immersion causes shrinkage of the tube to the size of the mandrel.

2,286,402
DUPLICATING MACHINE
Frank Ronald Ford, Sparkbrook, Birmingham, England
Application December 28, 1940, Serial No. 372,119
In Great Britain December 21, 1939
13 Claims. (Cl. 101—132.5)



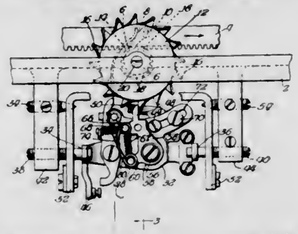
1. A machine of the type described having a guide parallel to the axis of the cylinder, a carriage mounted slidably on said guide, a pressure roller of line or paragraph width on said carriage, a stem carrying said pressure roller, a guide for said stem on said carriage, a spring acting on said stem and urging the roller towards the cylinder, an abutment on said stem, a lever engaging said abutment, said lever acting as a stop to limit movement of the stem under pressure of said spring and being capable of moving the roller into an inoperative position, and means for moistening the copy sheets.

2,286,403
ESCAPEMENT MECHANISM
Peter F. Gattuso, Chicago, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a corporation of Illinois
Application May 1, 1940, Serial No. 332,787
1 Claim. (Cl. 197—88)



Escapement mechanism for typewriters comprising a pivotally mounted bracket, a bell-crank pivotally mounted on the bracket, means to move the bell-crank, stop means on the bracket on each side of the bell-crank to limit the movement thereof, one part of the bell-crank adapted for engagement with teeth on an escapement wheel to hold the wheel, and an angle bracket of L-shape and formed of spring metal fixed to the bracket by one leg and having its other leg freely projecting outwardly therefrom into the path of movement of one arm of said bell-crank to form a shelf against which said arm of the bell-crank engages as the bell-crank moves toward one of said stop means to cushion the bell-crank movement and prevent the bell-crank from striking the stop means a hard blow.

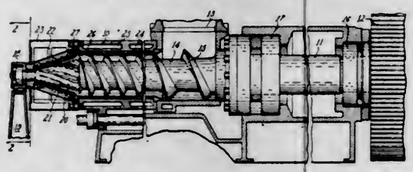
2,286,404
ESCAPEMENT MECHANISM
James F. Koca, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a corporation of Illinois
Application May 1, 1940, Serial No. 332,789
4 Claims. (Cl. 197—88)



1. Escapement mechanism comprising an escapement dog adapted for limited pivotal movement, a relatively fixed stop for engagement by said dog, a pin on the dog, and a bowed spring member having one end secured to said fixed stop and the other end thereof terminating in an eye into which the pin is received and retained, said eye being larger than the pin to permit a predetermined amount of movement of the pin in the eye before engagement therewith

when the dog is moved toward and before engagement with said fixed stop, continued movement of the dog creating a pull on the bowed member to provide a resilient retarding effect on the dog before the dog engages said stop.

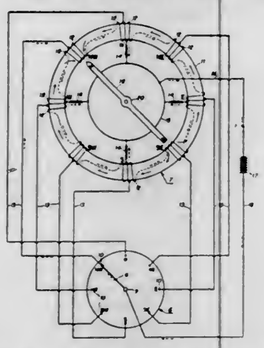
2,286,405
METHOD OF AND MEANS FOR TREATING RUBBER
William A. Gordon, Shelton, Conn., assignor to Farrel-Birmingham Company, Inc., Ansonia, Conn., a corporation of Connecticut
Application December 8, 1938, Serial No. 244,609
13 Claims. (Cl. 18—12)



6. In a rubber-treating machine, a perforate shell through which the rubber is forced, a surrounding rotary cage, and a plurality of angularly shiftable spring-pressed knives carried by the cage and yieldingly contacting the outer surface of the shell.

11. The method of treating rubber which comprises forcing the rubber through peripheral perforations in a suitable shell, cutting off the rubber as it emerges from the perforations so as to form pellet-like pieces which drop off from the shell, providing a confined space in which the pieces are cut and to the lower boundary of which they drop and within which the are moved for purposes of discharge, and spraying a tackiness-destroying medium into said confined space, the rubber while moving in said space being subjected to said medium to render its external surfaces non-adhesive.

2,286,406
TELEMETRIC DEVICE
William G. Green and Elihu H. Cooley, Tulsa, Okla.; said Cooley assignor to Engineering Laboratories, Inc., Tulsa, Okla., a corporation of Oklahoma
Application February 8, 1941, Serial No. 378,074
7 Claims. (Cl. 177—351)

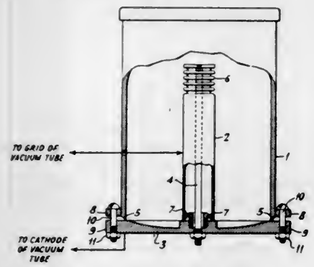


1. A telemetric device for producing indications of the changing position of a moving object distantly removed therefrom, comprising, a toroidal iron ring, an inductive winding symmetrically wound thereon, a plurality of current input points on said winding, the peripheral position of each of said points corresponding to pre-determined position of said object, a magnetic pointer pivotally mounted to rotate within the periphery of said ring, its angular position relative thereto being subject to magnetic flux conditions induced in said ring by current passing through said winding and by the point of entry of current into said winding, a current source connected to said winding, selector means connected to said current source and operative by the movements of said object to selectively connect said current source to the current input point on said winding corresponding to the position of said object, and a current attenuating network symmetrically connected to said winding and interposed between said winding and said current source.

2,286,407
PROCESS FOR PRODUCING FORMIC ACID
Paul Halbig, Fribourg, Switzerland, assignor to the firm: Lonza Elektrizitätswerke und Chemische Fabriken Aktiengesellschaft (Gampel), Basel, Switzerland
No Drawing. Application December 10, 1940, Serial No. 369,493. In Switzerland December 20, 1939
12 Claims. (Cl. 260—542)

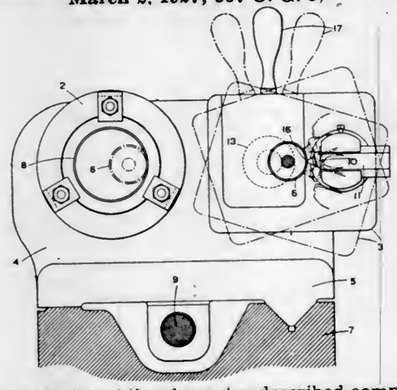
3. The process of producing formic acid, comprising the following steps in combination: splitting up esters of formic acid and tertiary alcohols into olefines and formic acid by heating, conversion of the olefine into the corresponding tertiary alcohol by catalytic addition of water, conversion of the tertiary alcohol into ester of formic acid by catalytic action of carbon monoxide, and returning the ester to the first step.

2,286,408
CONCENTRIC RESONANT LINE
Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application April 7, 1938, Serial No. 200,605
Renewed August 18, 1939
21 Claims. (Cl. 178—44)



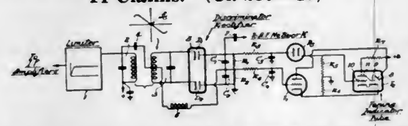
10. A tuned circuit comprising a concentric line having an inner conductor and an outer conductor, and an end plate for conductively coupling said conductors together at one of their adjacent ends, said end plate being bowed to prevent warping due to heat engendered therein, whereby the relative positions of said inner and outer conductors at the location of said end plate are predictable and the tendency for permanent dimensional changes of said end plate is reduced, the end of one of said conductors engaging said end plate being tapered to produce a wedging effect.

2,286,409
METHOD OF AND MEANS FOR FORMING OR DRESSING GRINDING WHEELS USED FOR FORM GRINDING
Stanley Jaffa Harley and John Ernest Wainwright, Coventry, England
Application October 2, 1939, Serial No. 297,612
In Great Britain October 1, 1938
7 Claims. (Cl. 125—11)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)



5. A device of the character described comprising a main slide mounted for linear movement, and a tool carrying slide mounted on said main slide for reciprocation in a transverse direction, said tool carrying slide being also disposed for angular adjustment about a linear axis, in combination with a cam mounted on said main slide for rotation about the axis of angular adjustment of said tool carrying slide and in operative engagement therewith to cause reciprocation of said slide during linear movement of said main slide irrespective of the angular position of said tool carrying slide.

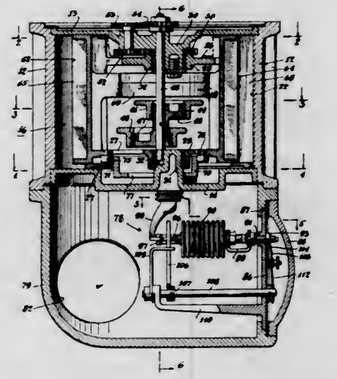
2,286,410
FREQUENCY MODULATION RECEIVER TUNING INDICATOR
William A. Harris, Nutley, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 9, 1941, Serial No. 387,571
14 Claims. (Cl. 250—40)



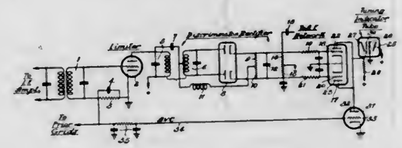
2. In combination with a source of frequency-variable direct current voltage, an indicator tube having input electrodes, a connection including a rectifier for applying said voltage between said input electrodes, and a direct current voltage connection between one of the input electrodes and a point on said source such that a portion of the said voltage is applied to said input electrodes in opposition to said first voltage.

2,286,411
ADJUSTABLE ROTARY METER WITH COMPENSATING DEVICE
Charles S. Hazard, Andover, N. J., assignor to Neptune Meter Company, a corporation of New Jersey
Application June 1, 1940, Serial No. 338,305
19 Claims. (Cl. 73—259)

1. In a fluid meter, a casing having a chamber with inlet and outlet openings, means including a rotor and a plurality of cooperating members movable relative thereto to form pockets for measured delivery of fluid between said inlet and outlet openings, and means for varying the volume of fluid delivered for a given metering operation comprising an element movable into and out of at least one of the pockets formed by said rotor and said members during a given cycle of operation of said meter to increase or decrease the effective capacity thereof.

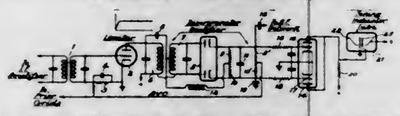


2,286,412
FREQUENCY MODULATION RECEIVER TUNING INDICATOR
Edward W. Herold, Verona, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 25, 1941, Serial No. 385,083
12 Claims. (Cl. 250—40)



1. In combination with a timing modulated carrier wave detector having an input circuit upon which are impressed timing modulated carrier waves, said detector having an output circuit across which is developed direct current voltage whose polarity and magnitude depend upon frequency departure of the center frequency of the applied modulated waves from an assigned center frequency value of said detector input circuit, an electronic shadow indicator tube provided with a shadow control electrode, means for varying the potential of said shadow control electrode in response to said detector direct current voltage output whereby the shadow angle of the indicator tube indicates the said frequency departure, means for controlling the potential of said shadow control electrode in the absence of modulated waves of a predetermined amplitude at said input circuit for maintaining the shadow of said indicator tube at maximum width, and additional means responsive to carrier amplitude increase for rendering said last-named means ineffective.

2,286,413
FREQUENCY MODULATION RECEIVER TUNING INDICATOR CIRCUITS
Edward W. Herold, Verona, and Bernard Salzberg, East Orange, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application April 25, 1941, Serial No. 390,282
9 Claims. (Cl. 250—40)

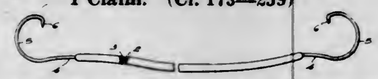


1. In combination with a detector of the type comprising a pair of diodes having a common input circuit tuned to a predetermined center frequency of timing modulated carrier waves, each of said diodes having a respective output load element operatively associated therewith, the load elements of the two diodes being arranged in series relation in a closed circuit including said diodes, said input circuit being constructed and arranged to develop across said load elements a resultant direct current voltage which varies in magnitude and polarity in response to variation in extent and direction respectively of frequency departure of the modulated carrier waves from the aforesaid center frequency, means providing direct current voltage whose magnitude is a function of carrier amplitude of received modulated carrier waves, at least two electron discharge devices each including a cathode, a control electrode and an output electrode, a direct current voltage connection between opposite ends of said load elements and each control grid of said devices, means responsive to the combined space current flowing to each output electrode of said devices for operating a tuning indicator of the electronic, shadow-indicating type, and a direct current voltage connection between said direct current voltage producing means and the junction of said load elements.

2,286,414
TREATMENT OF ASPHALT
Arthur B. Hersberger, Lansdowne, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application August 5, 1939, Serial No. 288,575
2 Claims. (Cl. 106—269)

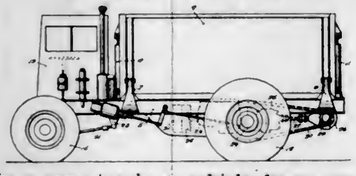
1. The method of producing an improved asphalt of reduced staining tendency from flux asphalt, which comprises adding to the flux asphalt a small but sufficient quantity of a substantially water-insoluble soap to cause gelation of the exudable oil content of said flux and subjecting the mixture to air blowing at elevated temperature.

2,286,415
BATTERY CONNECTOR
Frank B. Hewel, Pittsburgh, Pa.
Application May 21, 1940, Serial No. 336,319
1 Claim. (Cl. 173—259)



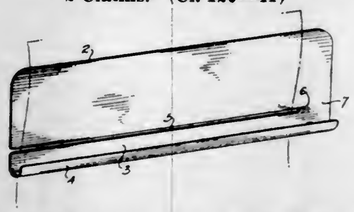
In combination with a storage battery terminal provided with a cylindrical surface having a certain diameter, a connector therefor comprising a bare end portion of spring conductive material curved for at least 180 degrees and provided at its end with a single transversely extending sharp point, the distance between the end of said point and the opposing area of said curved end portion being less than the diameter of said terminal, said point and a portion of said material being applied to the cylindrical surface of said terminal by a single pull substantially in the direction of said point and the space between the terminal at said point and the material of the terminal gradually decreasing from a maximum value where the material joins the outer end of said sharp point to a zero value at the area of said terminal approximately opposite the location of said sharp point, the springiness of said material pressing against said area serving to hold said sharp point and the material in place and any further pull on said material in the direction of said point serving to tighten the hold of said material on said terminal.

2,286,416
CANE TRUCK
John G. Holmstrom, Seattle, Wash., assignor to Kenworth Motor Truck Corporation, Seattle, Wash., a corporation of Washington
Application December 18, 1939, Serial No. 309,839
10 Claims. (Cl. 180—54)



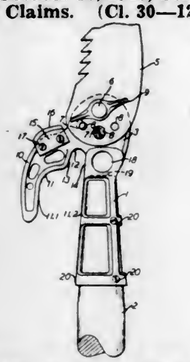
1. In a cane truck: a vehicle frame provided with front and rear axles; wheels for said axles; a body supported by the frame in position to locate its load center in immediate proximity of the axial line of the rear wheels; and an engine and power-transmitting mechanism including a transmission and differential for driving the rear wheels, said engine, transmission and differential being mounted in line to extend from a point forwardly to a point rearwardly of the axial line of the rear wheels and centering the collective weight on a transverse line generally corresponding to the load center of the body.

2,286,417
ERASER SHIELD PLATE
Jessie Irene Holt, Los Angeles, Calif.
Application August 27, 1941, Serial No. 408,545
2 Claims. (Cl. 120—41)



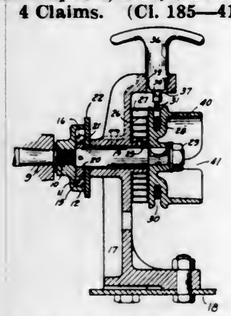
1. A shield of the class described, having a backing member plate composed of stiff material sufficient for the purpose described, having its lower longitudinal edge curved to form a catch basin, a longitudinal slot extending lengthwise from one end in between the upper portion and the lower catch basin portion and said slot terminating inwardly from one end of the said plate, thereby leaving an integral portion of the instrument connecting the upper and the lower portions thereof on the sides of the said slot, the said plate adapted to be slid over a sheet of paper having the catch basin side over the paper and the upper main portion underneath the paper and this upper portion being the sustaining portion backing of the paper upon which an erasure is to be made.

2,286,418
POLE SAW HEAD
John A. Hoyt, Glenview, Ill., assignor of one-half to John F. Fonder, Evanston, Ill.
Application October 17, 1940, Serial No. 361,541
3 Claims. (Cl. 30—123)



3. A pole saw head comprising a pole ferrule having on its upper end a cheek-plate having a seat for securing a saw blade in substantial alinement with the pole, a hook overhanging one side of the ferrule in the plane of said cheek-plate and having a knife blade seat adjacent to its upper edge and adjacent to and in the plane of said saw blade seat, said hook having its concave lower edge stepped to form both large and small seats for hanging the device and for twisting off small branches, respectively.

2,286,419
RECOIL STARTER FOR SMALL MOTORS
William F. Krenzke, Racine, Wis., assignor to Jacobsen Manufacturing Company, Racine, Wis., a company of Wisconsin
Application April 4, 1940, Serial No. 327,779
4 Claims. (Cl. 185—41)

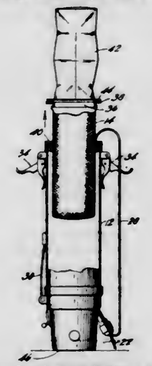


1. A recoil starter of the class described, comprising an engine having a crank shaft with a protruding end, a supporting bracket having a shaft rotatably mounted therein and being held in axial alignment with said crank shaft, a hub secured to said protruding end and having an annular member, a number of spaced elongated grooves positioned at an angle in the inner surface of said annular member, balls in each said grooves, a collar secured to said last shaft and being held in axial alignment in said annular member and having a groove arranged to receive a portion of one of said balls by gravity and means to thereby act as a ratchet, a sheave secured to the outer end of said second shaft, a retrieving spring positioned between said sheave and bracket and having a connection at one end to said bracket and a connection at the other end to said sheave, a cable pivotally anchored at one end to said sheave, the other end extending through an opening in said bracket, a handle secured to the other end of said cable and adapted to act as a limit stop against the retrieving action of said spring.

2,286,420
PROCESS OF MANUFACTURING PORTLAND CEMENT
Charles R. Jackson, Okay, Ark., assignor to Oliver United Filters Incorporated, San Francisco, Calif., a corporation of Nevada
No Drawing. Application June 19, 1939, Serial No. 279,946
2 Claims. (Cl. 210—62)

1. The method of dewatering hydraulic cement-making materials preparatory to burning them, comprising filtering said materials in the presence of a small quantity of finished cement, not in excess of 1% calculated on a dry weight basis.

2,286,421
SUCTION CLEANER
Rudolph Kahn, New York, N. Y.
Application April 25, 1939, Serial No. 269,835
2 Claims. (Cl. 15—269)

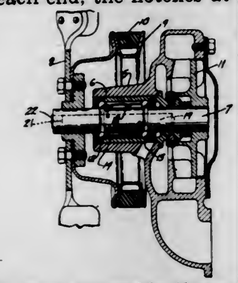


1. The method of emptying the porous dust bag of a horizontal cylinder type suction cleaner which includes standing the cleaner upright, removing the cap at the upper end, inverting a non-porous discardable sack to bring the mouth of the sack against the mouth of the bag, removing the bag while holding the sack thereagainst, inverting the bag assembly and inserting the sack down into the cylinder of the cleaner, and then discharging the contents of the bag into the sack while the sack is supported and protected by the then upright cylinder.

2,286,422
BALL BEARING
Morris Katcher, New York, N. Y.
Application August 24, 1940, Serial No. 354,030
6 Claims. (Cl. 308—201)

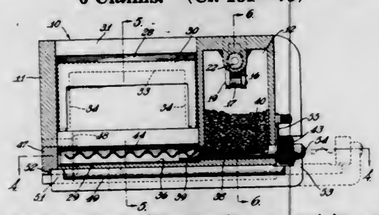
1. In a ball bearing, two rolls of balls, said rows being set in substantial axially spaced re-

lation, an outer race and an inner race between which the balls are mounted for rolling in said spaced relation, and a retainer cage having axially extending notches at each axial end, said balls being set in the notches when assembled, a row at each end, the notches at one end being



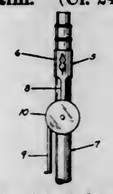
sufficiently deep to enable them during assembling of the bearing to hold the balls at said one end within them while the cage is moved toward the balls at said one end sufficiently to have the balls at the other end clear the notches at said other end when said latter balls are set in their predetermined axial position.

2,286,423
CIGARETTE MAKING DEVICE
Hugh F. Kirkwood, Bucksport, Maine
Application April 15, 1940, Serial No. 329,785
6 Claims. (Cl. 131—73)



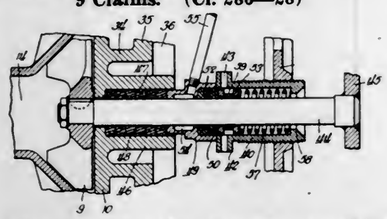
1. A cigarette making device comprising a casing, a tobacco compartment in one end of said casing, a paper compartment formed in the other end of said casing, a plurality of trays carrying individual cigarette papers therein held within said compartment, a forming chamber below said paper compartment and in communication therewith, and means for feeding tobacco to said forming chamber.

2,286,424
COMBINATION PENCIL CLIP AND SELF-WINDING TAPELINE
Albert Kirstein, Mason City, Wash.
Application July 17, 1940, Serial No. 346,001
1 Claim. (Cl. 24—11)



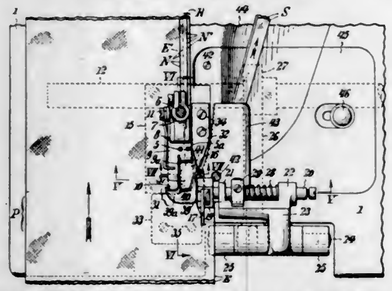
In a device of the kind described, a pencil clip comprising a sleeve for receiving the pencil, and a pair of superposed prongs extended from a common base at one side of the sleeve, and adapted to frictionally engage the wall of a pocket as passed between them, the said base of the prongs being joined to the lower margin of the pencil sleeve, and a laterally spread element at the lower end of the outer prong for assisting in maintaining the device in place upon the pocket.

2,286,425
PACKING MEANS FOR SHAFTS
Harry E. La Bour, Elkhart, Ind.
Original application September 2, 1939, Serial No. 293,227. Divided and this application March 29, 1941, Serial No. 385,888
9 Claims. (Cl. 286—28)



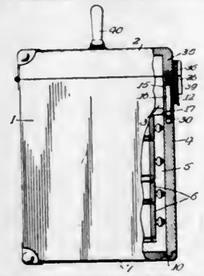
1. Packing means for a shaft comprising in combination an apertured pressure containing member, a shaft extending through the aperture, said member having an annular recess for packing surrounding said aperture, a supporting bracket rigid with said member, said bracket having a ring member surrounding said shaft and spaced from said member to provide room to service the packing, said ring carrying internal threads, packing in said recess, a gland follower engaging the packing, a coil spring on the shaft transmitting its recoil to the follower and a sleeve threaded in the ring and having an internal shoulder for engaging the rear end of the spring to compress the same, said sleeve having a shoulder head at its forward end by which the sleeve may be turned on the threads, said head forming a solid annular abutment for engaging the follower.

2,286,426
SEWING MACHINE
Walter E. Le Roy and Manly Phillips, Cincinnati, Ohio, assignors to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application June 27, 1939, Serial No. 281,340
9 Claims. (Cl. 112—123)



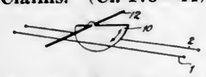
1. A serving machine comprising reciprocating needles which are transversely spaced with regard to the direction of feeding; means for feeding fabric; means laterally of and in advance of the needles for trimming the fabric; a hemmer operative between the trimming means and the needles for turning the trimmed edge of the fabric and forming it into a hem which terminates in a plane intermediate a pair of the needles so that at least one needle penetrates the hem and another needle penetrates the fabric inward of the hem, said hemmer having a surface which underturns the fabric edge and which slopes inwardly and reaches to a point immediately adjacent the side of the outer needle of the group; and means cooperating with the needles to form concatenating thread loops which crosswise connect the needle thread loops and cover the cut edge of the hem.

2,286,427
BOX OR CHEST FOR TOOLS
Harry L. Levensten, Chicago, Ill.
Application February 11, 1941, Serial No. 378,462
6 Claims. (Cl. 312—193)



1. In a chest or the like of the type including a narrow strip against opposite edges of which closure members are movable to their closed position, a tube making a press fit in an undersized hole in said strip and extending from one towards the other of said opposite edges, a locking plunger in said tube, a plunger receiving opening in one closure member and in alignment with the tube in the closed position of said one closure member, and a plunger pin on the other closure member adapted to enter the tube in the closed position of said other closure member and push the plunger into the opening in the one closure member.

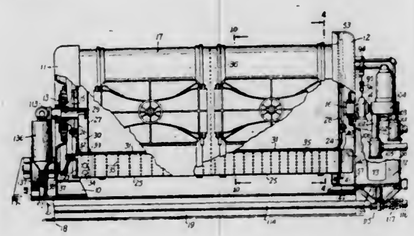
2,286,428
ARRANGEMENT FOR TUNING PARALLEL WIRE LINES
Paul Mehler, Berlin, Germany, assignor to "Fides" Gesellschaft fur die Verwaltung und Verwertung von gewerblichen Schutzrechten, m. b. H., Berlin, Germany, a corporation of Germany
Application June 14, 1940, Serial No. 340,538
In Germany March 27, 1939
9 Claims. (Cl. 178—44)



1. An arrangement for tuning the parallel conductors of a transmission line comprising a reactance device composed of ferrous magnetic material disposed within the field of influence of said conductors, means for varying the effective reactance of said device, and means for maintaining symmetry of such reactance with respect to the two said conductors.

2,286,429
WASHING MACHINE
Henry C. A. Meyer, Syracuse, N. Y., and Edwin F. Wesely, Chevy Chase, Md., assignors to United States Hoffman Machinery Corporation, New York, N. Y., a corporation of Delaware
Application October 29, 1938, Serial No. 237,626
12 Claims. (Cl. 68—58)

2. In a washing machine, in combination, an imperforate rotatably mounted wash wheel, a discharge chamber having means for continuously discharging liquid therefrom at a substantially constant rate, a transition chamber communicating with said wash wheel at all operable liquid levels, means comprising an intermediate chamber providing continuous communication between said transition chamber and said discharge chamber at a predetermined liquid level, alternatively fully open and shut cut-off means for admitting liquid to said wash wheel when open at a rate greater than said discharge rate, and actuating means associated with said intermediate chamber adapted to open said admission means in response to a fall in level to a predetermined point relative to said liquid level and to close said admission means in response to a rise in level to another predetermined point relative to said liquid level, both of said points being above said liquid level.

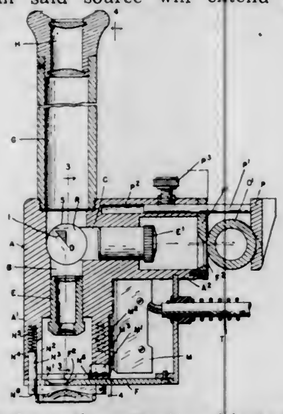


5. In apparatus of the character described, in combination, an imperforate wash wheel rotatably supported by trunnions carried by head structures at its opposite ends, a partition suitably spaced from one end to provide a receiving chamber between said partition and said one end, and a wash chamber between said partition and the other end of the wash wheel, means for admitting liquids to said receiving chamber and means for discharging liquids from said wash chamber during rotation of said wash wheel, a plurality of conduits each communicating with said receiving chamber and with the wash chamber throughout the length thereof, the aggregate flow area of the means of communication between said conduits and said wash chamber per unit length of said conduits being progressively greater from the inlet to the remote end of said conduits.

2,286,430
COMPARISON MICROSCOPE
John D. Minton and William F. Klemm, Detroit, Mich.; said Minton assignor to said Klemm
Application February 27, 1939, Serial No. 258,802
15 Claims. (Cl. 88—39)

1. A comparison microscope comprising a frame having mounted thereon two objectives with their axes perpendicular to each other and intersecting, an eyepiece in alignment with the axis of one of said objectives, a reflector having one edge at the point of intersection of and perpendicular to said axes with its reflecting surface bisecting the angle between said axes, said reflector intercepting one-half of the field of vision through the objective in alignment with the eyepiece and reflecting into said eyepiece one-half of the field of vision through the other objective, means for bringing the objects to be compared into operative relation to the respective objectives, and a single light source projecting from said frame on a line perpendicular to said axes at

the point of intersection thereof, whereby the light from said source will extend at equal

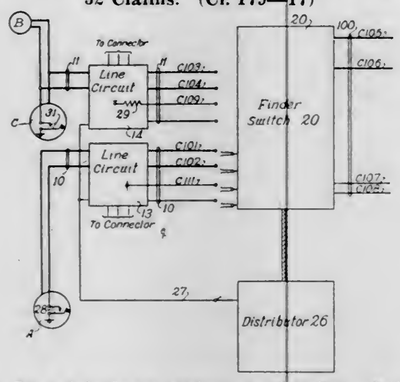


oblique angles to the respective objects to illuminate the surfaces thereof with equal intensity.

2,286,431
TELEPHONE SYSTEM

Imre Molnar, Chicago, and Morris E. Griffins, Riverside, Ill., assignors to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application February 12, 1940, Serial No. 318,398
32 Claims. (Cl. 179—17)



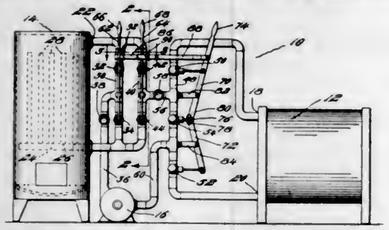
1. In a telephone system, a plurality of lines including a multiparty subscriber's line, subscriber controlled automatic switching apparatus for setting up connections between said lines, and subscriber controlled means for automatically controlling said automatic switching apparatus to give service of one class to one of the subscribers served by said multiparty line and service of a different class to another of the subscribers served by said multiparty line.

2,286,432
CLOSED DRY CLEANING SYSTEM

Nicholas Monsarrat, East Providence, R. I., assignor to Pantex Pressing Machine, Inc., Central Falls, R. I., a corporation of Delaware

Application December 28, 1938, Serial No. 248,044
6 Claims. (Cl. 210—62)

5. A closed dry cleaning system, comprising a washer having an inlet and an outlet, a reversible flow filter having inlet means, a filter discharge pipe therein and hollow filter plates mounted on said filter discharge pipe, a circulating pump, two conduits, one of said conduits comprising a filter inlet conduit having one end thereof connected to the filter inlet means and having a filter inlet valve therein and the other end thereof connected to the filter discharge pipe and having a filter backwash inlet valve therein, and pipe means connecting said pump to said filter inlet conduit intermediate said valves, the second of said conduits comprising a filter discharge conduit having one end connected to the filter inlet means and having a filter discharge valve therein and its other end connected to the filter discharge pipe and having a filter backwash valve



therein, pipe means connecting the portion of said filter discharge conduit between said valves to said pump, and levers including handles pivotably mounted on said filter inlet and filter outlet conduits intermediate said valves and pivotally connected to the respective valves to simultaneously actuate the valves in such manner that one valve in each conduit is open while the other valve is closed and vice versa, said levers having the handles thereof so closely spaced to each other that each may be grasped by a hand of a single operator.

2,286,433
DRAWING COMPOUND

James E. Montgomery, Highland Park, Mich.

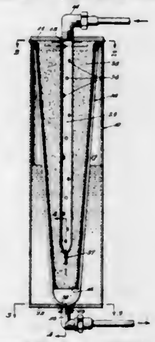
No Drawing. Application August 23, 1939, Serial No. 291,617
8 Claims. (Cl. 252—14)

1. A drawing compound comprising an intimate mixture of 1% to 50% of a finely divided proteinous meal containing substantially no added water of the class consisting of peanut meal, flaxseed meal, soybean meal, pecan meal and cocoa bean meal, and 99% to 50% of a neutral petroleum lubricating oil having a Saybolt viscosity of 100'' to 750'' at 100 degrees F.

2,286,434
FILTER

Bruce Myers and Frank Tresca, Brooklyn, N. Y.

Application November 14, 1939, Serial No. 304,290
8 Claims. (Cl. 210—138)



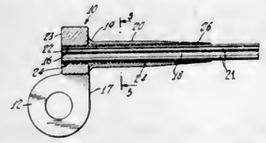
1. A filter comprising a casing having a top provided with an inlet and a bottom provided

with an outlet, a frame disposed between the top and bottom and including a ring with a pair of depending diametrically arranged side members, and flexible filtering media open at the top and closed at the bottom, with the top thereof secured to the ring, and having portions intermediate the top and bottom partially encircling and stitched to the members.

2,286,435
EYEGLASS FRAME CONSTRUCTION AND METHOD OF MAKING THE SAME

George E. Nerney, Attleboro, Mass., assignor to Bay State Optical Company, Attleboro, Mass., a corporation of Maine

Application April 24, 1941, Serial No. 390,048
6 Claims. (Cl. 88—52)

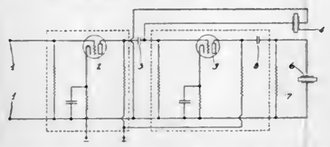


1. In non-metallic temple construction, in combination, a metal hinge plate having a hole therein, a metal temple reinforcing rod having an end extending into said hole, a metal sleeve mounted on said rod adjacent said plate, means securing said sleeve to said rod and said rod and sleeve to said plate, and a non-metallic casing covering said reinforcing member.

2,286,436
PIEZOELECTRIC TEMPERATURE COMPENSATING CIRCUIT

Malcolm P. Odell, East Cleveland, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio

Application August 2, 1940, Serial No. 349,738
9 Claims. (Cl. 178—44)

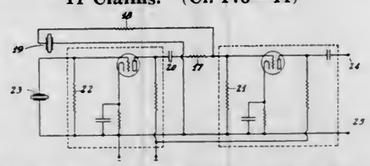


1. A piezoelectric system comprising the combination of: a transmission path which includes an input circuit and an electronic amplifying output circuit, each of said circuits having a pair of input terminals and a pair of output terminals; a temperature sensitive primary piezoelectric unit connected to said transmission path so as to be in shunt with the output terminals of the output circuit; a pilot piezoelectric unit having impedance versus temperature characteristics which complement in some measure the sensitivity versus temperature characteristics of said connected primary piezoelectric unit, said pilot and primary units being physically disposed relative to each other so as to be subjected at substantially the same time to substantially the same temperature conditions; and an attenuator which combines a relatively-fixed temperature-insensitive impedance element in series circuit with a corrective impedance branch which includes said pilot piezoelectric unit, said attenuator being connected to the output terminals of the input circuit with at least the pilot piezoelectric unit thereof in shunt with the input terminals of the output circuit.

2,286,437
PIEZOELECTRIC TEMPERATURE COMPENSATING CIRCUIT

Malcolm P. Odell, Cleveland, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio

Original application August 2, 1940, Serial No. 349,738. Divided and this application October 3, 1941, Serial No. 413,496
11 Claims. (Cl. 178—44)

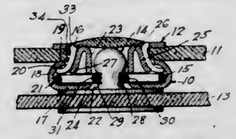


9. An improved piezoelectric system for compensating the effects of temperature-induced variations in the sensitivity of a piezoelectric generator unit, said system comprising the combination of: a piezoelectric generator unit subject to temperature-induced variations in sensitivity; a load; an attenuator having a ratio of output to input which varies with temperature and which complements in some measure the sensitivity versus temperature characteristics exhibited by said generator unit when in operation in said system, said attenuator including a pilot piezoelectric unit which is physically disposed relative to said generator unit so as to be subjected to substantially the same temperature variations as said generator unit; circuit means for transmitting signal from said generator to the input of said attenuator; and means for transmitting the output signal of said attenuator to said load.

2,286,438
GARMENT FASTENER

Daniel I. Reiter, New York, N. Y.

Application September 10, 1941, Serial No. 410,230
6 Claims. (Cl. 24—218)



1. In a garment fastener, an annular base part having a central stud-receiving opening therein, an arcuate rim on the base terminating in a free edge, a wire spring having a circular part at the juncture of the base and rim and having a pair of spaced legs coplanar with and extending from the circular part across the base part, a wall of circular cross-section upstanding from the base part and surrounding the opening, said wall having spaced cut-away parts therein for the passage therethrough of the legs of the wire spring, and an annular prong-bending part extending downwardly and outwardly from the top of the wall and downwardly past and in inward spaced relation to the edge of the rim to form a prong-receiving space therebetween.
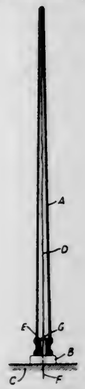
2,286,439
YIELDABLE ANTENNA POLE

Ewald Richter, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application May 6, 1939, Serial No. 272,089
In Germany May 17, 1938
5 Claims. (Cl. 250—33)

1. A yieldable antenna pole comprising a coni-

cally shaped tubular member, the apex of which is solid for a substantial part of its height, a flexible conductor anchored to the apex and extending loosely within the walls of the tubular member, and a rigid base member having a nipple portion over which the lower end of the tubular member is stretched.



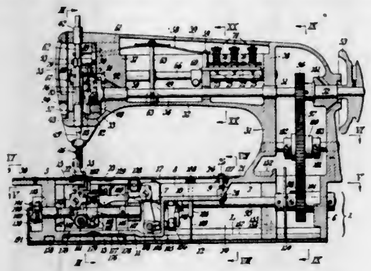
2,286,440
AMALGAM MIXER
John T. Ryan, Mount Vernon, Wash.
Application March 25, 1940, Serial No. 325,773
12 Claims. (Cl. 259—72)



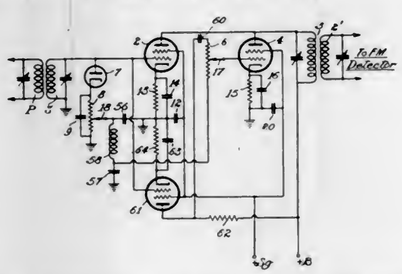
1. In an amalgam mixer, in combination: a sack forming a compressible mixing chamber for the amalgam; a drum; a bowl supporting the drum for rotary movement and with the latter producing a circular canal of a width somewhat less than the diameter of the sack; means for functionally positioning said sack within the canal; and manually operable means for rotating the drum to have the latter, through frictional engagement with the sack, impart epicyclic movement to the sack.

2,286,441
SEWING MACHINE
George Sauer, Berwyn, Ill., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application February 6, 1940, Serial No. 317,517
25 Claims. (Cl. 112—256)

1. A sewing machine comprising a frame with a hollow base having top and bottom walls, front and rear side walls, end walls, and a cross partition subdividing the base into two adjacent chambers of which the one contains a supply of lubricating oil and is completely enclosed, and the other is partly open for access from the exterior; drive mechanism within the first chamber including moving means for taking oil from the supply in the base and dispersing it to automatically lubricate said mechanism; looper mechanism within the second chamber; feed mechanism with some of its parts within the second chamber and some of them externally thereof; means for trapping part of the oil dispersed in the first chamber at a level above the looper and feed mechanisms for conduction by gravity through ducts in the walls of the base to the various moving parts of said looper and feed mechanisms.

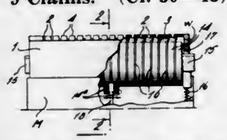


2,286,442
AMPLITUDE LIMITER CIRCUIT
Robert E. Schock, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application December 6, 1940, Serial No. 368,782
1 Claim. (Cl. 179—171)



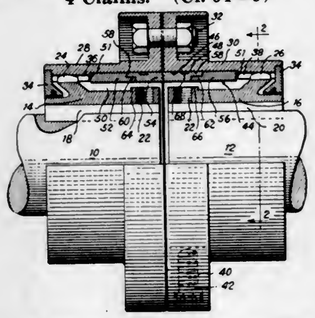
In a frequency modulated carrier wave transmission system of the type comprising an amplifier tube having input and output electrodes, a resonant input circuit coupled to the input electrodes and tuned to the center frequency of applied waves and having a pass band such as to pass all the frequency deviations of said center frequency, a resonant output circuit coupled to said output electrodes and having a frequency response characteristic similar to said input circuit; the improvement comprising means for reducing amplitude modulation of said carrier wave, said means comprising an electron discharge device provided with input and output electrodes, means coupling said input circuit to said last input electrodes to apply a predetermined fraction of the modulated wave energy thereto, means connecting the last output electrodes to said output circuit to provide in the latter the differential output of said amplifier tube and said device, and means connected to said input circuit, constructed and arranged to be responsive to said amplitude modulation, for automatically varying the gain of said device in a sense to insure said differential output being substantially free of said amplitude modulation, said coupling means comprising an electron discharge tube acting as a phase inverter, and the output electrodes of said amplifier tube and device being connected in parallel to said output circuit.

2,286,443
SHAVING MACHINE
John T. Scully, Lawrence, N. Y.
Application May 16, 1939, Serial No. 273,929
9 Claims. (Cl. 30—43)



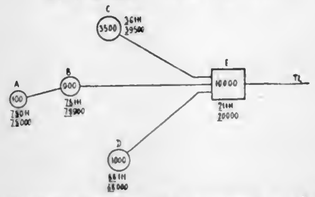
1. In a shaving machine, an outer shear plate provided on its inner side with a plurality of cutter receiving channels intermediate the ends of the plate, hair-receiving openings narrower than the channels provided in the bottoms thereof, shear edges at the bottoms of the channels adjacent hair-receiving openings, and a co-operating cutter member movably mounted and provided with spaced cutting blades having their cutting edges disposed in planes transverse to the axis of said cutter member.

2,286,444
FLEXIBLE COUPLING
Robert Armstrong Smith, Mahwah, N. J.
Application August 2, 1940, Serial No. 349,889
4 Claims. (Cl. 64—9)



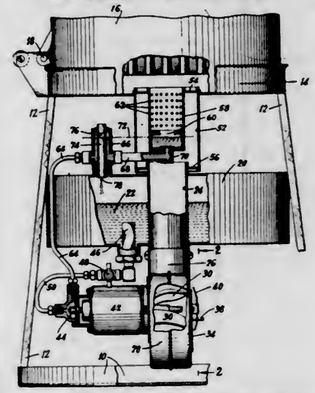
4. In a gear-type flexible coupling, an oil-displacer ring comprising at least three coaxial annular juxtaposed elements, at least one of said elements being radially positioned by another of said elements.

2,286,445
ELECTRICAL SIGNALING SYSTEM
Reginald Taylor and George Thomas Baker, Liverpool, England, assignors to Associated Telephone & Telegraph Company, Chicago, Ill.
Application March 1, 1940, Serial No. 321,783
In Great Britain March 2, 1939
16 Claims. (Cl. 179—27)



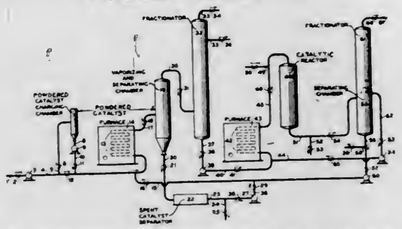
1. In a telephone or like system, a plurality of lines, a register, switching apparatus common to said lines, means for extending a connection over said apparatus from any one of said lines to said register, means operated to connect with all of said lines in succession and, as each line is connected with, to prepare said register for the registration of a different item of information, means in said register operated, over the connection extended to said register from said one line, responsive to said second means connecting with said one line, said last means effective to cause said register to register the item of information it is prepared to register as said second means connects with said one line.

2,286,446
OIL BURNER
Gordon H. Tessmer, Minneapolis, Minn., assignor to Warner Manufacturing Co., Minneapolis, Minn., a corporation of Minnesota
Application October 20, 1939, Serial No. 300,301
5 Claims. (Cl. 158—91)



1. Apparatus for forming combustible vapor, comprising in combination, a pot having an open top with an imperforate lower wall and a perforated upper wall, means for maintaining liquid fuel in the lower portion of said pot, a wick partially submerged in said liquid, means for forcing air through said perforations into said pot and maintaining air pressure above the liquid therein, and means under control of the operator for increasing said air pressure to lower the liquid in said pot and thus control the depth of submergence of said wick.

2,286,447
CATALYTIC CONVERSION OF HYDROCARBON OILS
Charles L. Thomas, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application May 12, 1939, Serial No. 273,236
4 Claims. (Cl. 196—52)



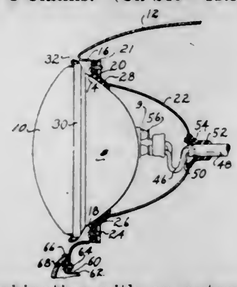
2. A process for converting high-boiling hydrocarbon oil, containing constituents which

readily deposite heavy carbonaceous material, into large yields of high antiknock motor fuel, which comprises, mixing a powdered contact material with the oil and passing the resultant mixture, in turbulent flow and as a restricted stream, through a heating coil, subjecting the mixture in said coil to relatively mild conversion under sufficient pressure to maintain a substantial portion of the oil in liquid phase to separate carbonaceous matter from the oil and collect the same on said contact material, separating the coil effluent into vapors and residue, fractionating the vapors to condense and separate hydrocarbons heavier than gasoline from gasoline boiling hydrocarbons, revaporizing heavier hydrocarbons and subjecting the vapors thereof to more drastic cracking than the oil in said coil while passing through a stationary bed of cracking catalyst, fractionating the resultant products to separate relatively heavy and light recycle stocks from gasoline boiling hydrocarbons, returning the heavier recycle stock to said coil and the lighter recycle stock to the vapor phase catalytic cracking operation, and recovering said gasoline boiling hydrocarbons.

2,286,448
LAMP MOUNT

Nils Erik Wahlberg, Kenosha, Wis., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland

Application April 24, 1940, Serial No. 331,305
3 Claims. (Cl. 240—41.5)



1. In combination with an automobile having a body, a panel member in said body defining an aperture, a flat flange formed around said aperture, a bowl member having a second flange formed around its rim, a sealed lamp unit having a curved back portion arranged to fit against an annular portion of said bowl member near said second flange, a flat rubber gasket positioned between the flanges around the rim of said bowl member and extending between said bowl member and said lamp unit, means securing the flange of said bowl member to said flange around the aperture in said panel member, and means secured to said panel member for holding said lamp unit against said gasket and bowl member.

2,286,449
WINDSHIELD WIPER

Nils Erik Wahlberg, Kenosha, Wis., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland

Application November 18, 1940, Serial No. 366,073
1 Claim. (Cl. 15—253)

In combination with a windshield having a curved surface made up of straight parallel elements, a pair of arms pivoted to oscillate in a plane parallel to a second plane tangent to said surface, a tie bar pivoted to the outer ends of said arms, said bar defining a slot having its major axis parallel to the elements of the surface of said windshield, said arms being arranged to urge said bar toward said second plane, and a wiper blade supported by said tie bar, said blade

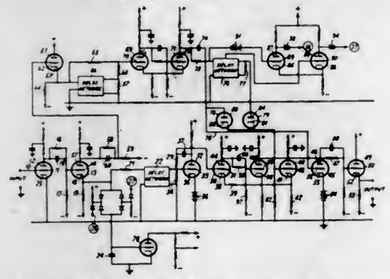


having an ear positioned in said slot and arranged to maintain said blade and tie bar in perpendicular relationship.

2,286,450
TELEVISION RECEIVING SYSTEM

Eric Lawrence Casling White, Hillingdon, and Reginald Philip Chasmar, Pinner, England, assignors to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain

Application July 18, 1939, Serial No. 285,062
In Great Britain July 20, 1938
6 Claims. (Cl. 178—7.3)



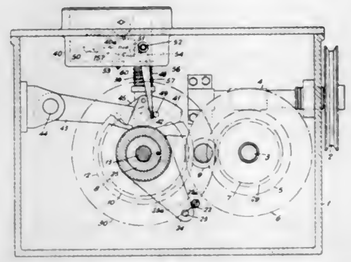
1. A television receiving system wherein picture and synchronizing signals are received as a single signal series and in which noise signals of relatively short duration may be simultaneously received comprising a discharge tube having a cathode, a control electrode and an anode, means for applying the received picture, synchronizing and noise signals to the control electrode of said tube, means for maintaining the anode positive with respect to the cathode and for so biasing the tube that current is passed thereby only upon the occurrence of strong noise signals whereby counter-noise impulses are produced at the anode of said tube corresponding to the noise signals as received but out of phase with respect thereto, means responsive to the received synchronizing signals for producing reformed synchronizing impulses free from noise disturbances, means cooperating with said discharge tube to reduce the intensity of the synchronizing impulses as received, and means for combining the received picture, and noise signals with the produced counter-noise impulses and the re-formed synchronizing impulses so as to substantially completely suppress the received noise signals.

2,286,451
STRIP FEEDING MEANS

Colin Martin Williamson, Willesden Green, London, England

Application March 5, 1940, Serial No. 322,403
In Great Britain March 18, 1939
13 Claims. (Cl. 74—1)

1. Apparatus for producing a constant feed at one point of a strip of flexible material, and an intermittent feed at another point of the same strip, the average rates of the two feeds being substantially equal, including a constant speed actuating member, a pair of juxtaposed driving members, means moving said juxtaposed members in opposite directions at speeds bearing fixed ratios to the speed of said constant speed member, an oscillating member, means for clutching said oscillating member to either of said driving

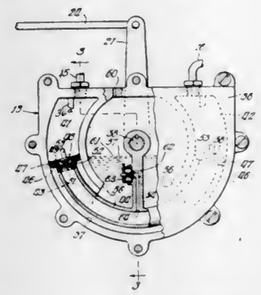


members, two adjustably spaced clutch reversing members coacting with said oscillating member to declutch said oscillating member from the one driving member and clutch it to the other thereby reversing the motion of said oscillating member at determined points, a final intermittent actuating member, and fixed ratio gearing including a one way coupling between said oscillating member and said final intermittent feed member.

2,286,452
FLUID MOTION TRANSMITTING DEVICE WITH SYNCHRONIZER

Weldon Worth, Dayton, Ohio

Application April 12, 1940, Serial No. 329,246
14 Claims. (Cl. 60—54.5)

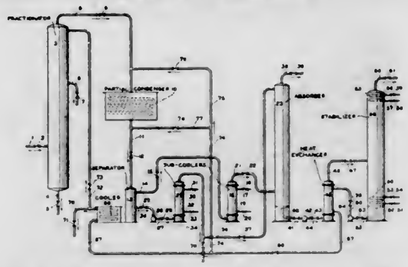


11. A fluid type motion transmitting device including a driving unit and a driven unit, each unit comprising a pair of cylinder chambers, fluid lines reversely connecting the chambers of the two units, a double piston mounted in each pair of chambers and having sealed engagement therewith, each piston having a passageway therethrough adapted to connect one of said chambers with the other chamber, check valves in the respective ends of said passageway arranged to be opened by fluid pressure in the respective chambers, each valve having a part cooperating with a part of the corresponding chamber to open said valve as said piston approaches within a predetermined distance from the limit of its movement, and a device for actuating the piston of said driving unit.

2,286,453
TREATMENT OF HYDROCARBONS

Charles H. Angell, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application September 30, 1938, Serial No. 232,565
2 Claims. (Cl. 196—8)

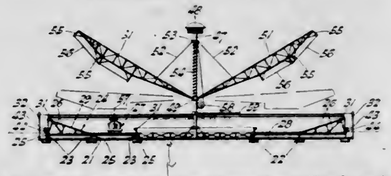


1. In the conversion of hydrocarbons wherein the vaporous conversion products are fractionated to condense and separate fractions thereof heavier than gasoline, leaving a mixture of gasoline vapors and gases, the method of recovering from said mixture a gasoline distillate and a normally gaseous fraction rich in polymerizable olefins, which comprises subjecting the mixture to partial condensation to condense only a portion of the gasoline vapors, thereby forming a substantially gas-free heavy gasoline condensate, introducing the remaining lighter gasoline vapors and gases to a scrubbing zone, separately introducing said condensate to the scrubbing zone and therein scrubbing the gases with the condensate, thereby absorbing C_3 and C_4 components of the gases in the condensate and combining the latter with the lighter gasoline fractions introduced to said zone, separately removing the unabsorbed gases and the enriched liquid from the scrubbing zone, stabilizing the liquid to liberate absorbed C_3 and C_4 gaseous components therefrom, and combining a portion of the stabilized gasoline liquid with said heavy gasoline condensate prior to the introduction of the latter to the scrubbing zone by introducing said portion of stabilized liquid into contact with said vaporous conversion products undergoing fractionation.

2,286,454
AUTOMOBILE AMUSEMENT APPARATUS

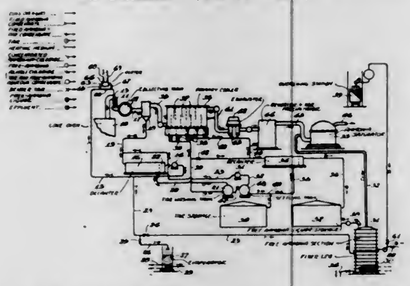
Norman Bartlett, North Tonawanda, N. Y.

Application September 14, 1939, Serial No. 294,921
17 Claims. (Cl. 104—68)



1. In apparatus of the class described, a track having an inner substantially flat portion and an outer banked portion, a self-propelled passenger carrying car adapted to travel on said bowl and having steering means and braking means thereon, control means effective for urging the steering means to cause the car to steer toward said inner portion of the track and for applying said braking means, and means remote from the car operable to render said control means effective and ineffective.

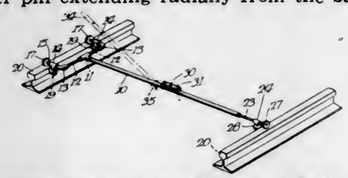
2,286,455
COKE-OVEN BY-PRODUCT TAR AND AMMONIA RECOVERY
Joseph Becker, Pittsburgh, Pa., assignor to Koppers Company, Pittsburgh, Pa., a corporation of Delaware
Application December 30, 1938, Serial No. 248,396
2 Claims. (Cl. 23—196)



1. In a system for recovery of tar and fixed and free ammonia from hot gases of the carbonization of carbonaceous matter, which comprises separate primary and secondary ammonia removal stages, in which the primary stage involves first partially cooling the hot gases by scrubbing the same with liquor to condense substantially all of only the fixed ammonia from the gas along with tarry constituents and water vapor, with subsequent substantially complete separation of the tar from the fixed ammonia in the scrubbing liquor; and in which the secondary stage involves thereafter separately removing the free ammonia from the gases and further cooling of the gas with maintenance of the ammoniacal condensate of the further cooling of the gas separate from the condensate of the primary stage, and separately treating the ammoniacal liquors from the two stages to recover their ammonia content, and disposing of their waste liquors separately from each other so as to avoid contamination of liquor from the secondary stage with fixed ammonia compounds; the improvement comprising purifying the tar of the primary stage of its residual content of fixed ammonia, after separation from the fixed ammonia liquor, by introducing to the separated tar from the primary stage part of the aqueous ammoniacal liquor from the secondary stage, intimately mixing the two out of contact with the gas being treated, and while being kept separate from the secondary stage, until the fixed ammonia content of the tar from the primary stage is absorbed merely by the intimate mixing of part of the ammoniacal liquor introduced to it from the secondary stage, and thereafter substantially completely separating said primary stage tar from the intimately mixed ammoniacal liquor from the secondary stage.

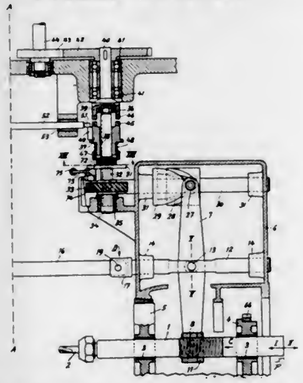
2,286,456
TRACK INSPECTION GAUGE
Edgar Franklin Boettcher, Aberdeen, S. Dak.
Application May 8, 1940, Serial No. 333,910
2 Claims. (Cl. 33—146)

1. In a track gauge inspection device of the class wherein a main pipe section having a longitudinal slot therein and an auxiliary bar are telescopically associated with each other and resiliently urged apart by a spring reacting between the inner end of the bar and an abutment in the main pipe section and in which the outer ends of the bar and pipe section are provided with wheels for rolling along the rails of a track, the combination with said bar and pipe section of a track gauge scale plate clamped at its opposite ends beyond the ends of the slot in the pipe section inwardly of the spring, and a pointer pin extending radially from the bar and



projecting through the solt and movable along the slot to prevent relative turning of the bar and pipe section and to cooperate with the scale plate to indicate variations in gauge as the device is moved along the track.

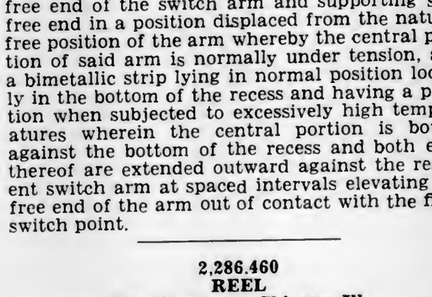
2,286,457
AUTOMATIC LATHE
Philippe Boillat, Tavannes, Switzerland, assignor to the firm Tavennes Machines Co. S. A., Tavennes, Switzerland, a joint-stock company of Switzerland
Application October 24, 1940, Serial No. 362,664
In Great Britain October 30, 1939
6 Claims. (Cl. 29—39)



5. In an automatic lathe, a tool holder, a rocking member adapted to transmit to said tool holder productive and unproductive longitudinal motions, a movable supporting member adapted to drive said rocking member during the productive period and to provide the pivotal axis of said rocking member during the unproductive period, and a driving means adapted to drive said rocking member during the unproductive period and to provide the pivotal axis of said rocking member during the productive period.

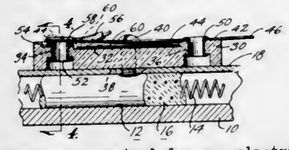
2,286,458
TRANSFER APPLYING APPARATUS
Wade V. Bowman and Chester M. Latta, Hickory, N. C.
Application March 13, 1941, Serial No. 383,140
15 Claims. (Cl. 41—1)

1. Apparatus for transferring raised indicia from a strip to a fabric, said strip having substantially equally spaced transfer indicia thereon, comprising a heating element, means for intermittently advancing spaced fabrics beneath said element, means for simultaneously advancing said strip beneath said element, means operable by one of said raised indicia for stopping the advance of the strip while the fabrics are stationary and means for successively lowering said heating element into engagement with the strip



and fabrics while stopped to cause the indicia to be transferred to the fabric.

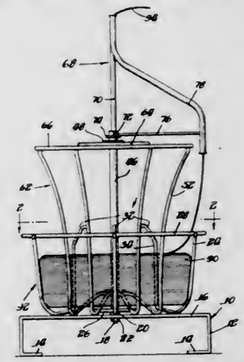
2,286,459
THERMOSTATIC SWITCH
Gwilym S. Braun, Strasburg, Ohio, assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Missouri
Application November 10, 1941, Serial No. 418,454
6 Claims. (Cl. 200—138)



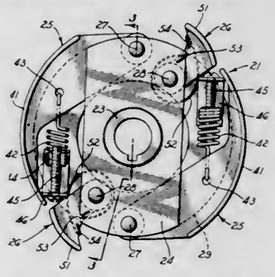
1. A thermostat control for an electric appliance comprising a block of electric insulating material having heat conducting properties adapted to be attached adjacent a heated portion of the appliance, said block having an elongated recess therein, a resilient movable switch arm extending over said recess and over the block beyond the ends of the recess, a connection adjacent one end of the recess securing the switch arm at one end to the top of the block, a connection at the other end of the recess having an electric terminal attached thereto comprising a fixed switch point normally in contact with a free end of the switch arm and supporting said free end in a position displaced from the natural free position of the arm whereby the central portion of said arm is normally under tension, and a bimetallic strip lying in normal position loosely in the bottom of the recess and having a position when subjected to excessively high temperatures wherein the central portion is bowed against the bottom of the recess and both ends thereof are extended outward against the resilient switch arm at spaced intervals elevating the free end of the arm out of contact with the fixed switch point.

2,286,460
REEL
Roy W. Brown, Chicago, Ill.
Application February 5, 1941, Serial No. 377,413
13 Claims. (Cl. 242—128)

1. A device for uncoiling wire, comprising in combination means for supporting a coil of wire, means for limiting vertical movement of said coil of wire, including a centrally located annular form flaring outwardly in an upward direction and adapted to contact the inner surface of said coil of wire, and guide means for the uncoiled wire including a hollow tube rotatable on an axis substantially coincident with the axis of said flaring form, and including a portion extending outwardly from the center beyond the large upper portion of said flaring form and thence downwardly below said large upper portion.

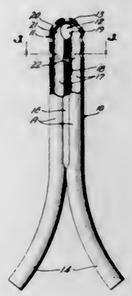


2,286,461
CLUTCH FOR MOTOR VEHICLES
Bruce Burns, Santa Monica, Calif., assignor to Salsbury Corporation, Los Angeles, Calif., a corporation of California
Application April 7, 1941, Serial No. 387,222
6 Claims. (Cl. 192—105)



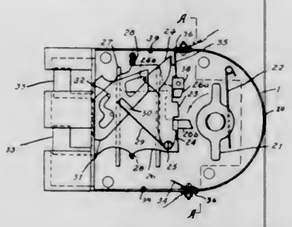
1. In a clutch, the combination of: a clutch drum having a cylindrical inner friction surface; a member rotating about the axis of said surface; a running shoe pivoted on said member, said shoe having a friction surface adapted to conform to the friction surface of said drum and having a weight distribution, in relation to its pivot, such that the friction surface of said shoe is forced outwardly by centrifugal force toward said friction surface of said drum when said member is rotated; spring means between said member and said shoe tending to resist said centrifugal force; a starting shoe pivoted on said member, said shoe having a friction surface so placed as to engage the friction surface of said drum, the friction surface of said starting shoe being eccentric with relation to the pivot of said starting shoe, so that the friction surface of said drum and the friction surface of said starting shoe are forced together by wedging action when said clutch delivers power through said starting shoe in one direction and are forced apart by a reversed action when said clutch attempts to deliver power in an opposite direction; and spring means acting between said member and said starting shoe and tending to act on said starting shoe in such a manner as to hold the friction surface of said starting shoe in contact with the friction surface of said drum.

2,286,462
SURGICAL SUCTION DRAINAGE AND IRRIGATION TUBE
Rafe C. Chaffin, Los Angeles, Calif.
Application May 6, 1940, Serial No. 333,449
4 Claims. (Cl. 128—350)



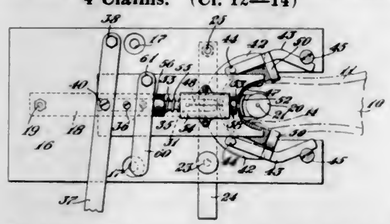
1. A surgical suction drainage tube comprising an elongate flexible body divided into two longitudinal passages one for connection with a source of negative pressure, the other for admission of fluid, the tube having an outer end portion continuing from the body forming a chamber which joins the passages of the body for flow of fluid therebetween, and a partition in said chamber directing the flow between the passages to the forward end of the chamber, there being a plurality of openings in said outer end portion to admit matter into the chamber to be carried by the flow of fluid therethrough, there being a bypass opening in the partition for bypassing fluid from one passage to the other in the event the end portion becomes distorted or material in the chambers tends to stop flow between the passages.

2,286,463
DOOR LOCK SIGNAL
Harold Chaskin, New York, N. Y.
Application June 13, 1941, Serial No. 397,863
9 Claims. (Cl. 177—311)



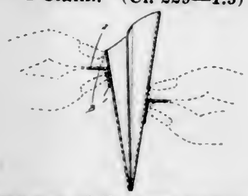
1. Improvements in door lock signal mechanism comprising an electric switch having two contacts connected to discrete signal lamps visible adjacent the keyway leading to the operable part of the lock which is actuated from the outside of the door, a movable switch member included in the bolt actuated mechanism and operable by the usual knob device at the interior of the door to engage one or the other of the contacts depending upon whether the locking bolt is out or in and means including the usual key inserted into the lock at the outside of the door for retracting the bolt for closing an electric circuit through one or the other contact and its connected signal lamp when the key is inserted in the exterior of the lock.

2,286,464
WIPER
Frank W. Christy, Beverly, Mass., assignor to Golden Leatherboard Co., Haverhill, Mass., a partnership consisting of Hyman Golden, Harry Brown, and Abraham Bluestein
Application February 24, 1941, Serial No. 380,156
4 Claims. (Cl. 12—14)



1. A device for operating on the heel of a shoe comprising a coil spring having its end portions arranged to provide a U-shaped wiper, means for supporting the shoe heel with its curved rear end extending toward the curved base portion of the U-shaped opening of said spring, with the plane of its face which is to be operated upon substantially coinciding with the wiping edge of said spring and with the facing material for the side of the heel extending outwardly from said face of the heel and within the U-shaped opening of said spring, means for moving said spring substantially parallel to said face of the heel and in engagement with the outer side of said facing material and means for simultaneously flexing the legs of said spring toward each other, whereby said facing material is uniformly wiped from the curved edge of the rear end of the heel against said face thereof.

2,286,465
PAPER CUP OPENER
Erlin Clement, Pedro Miguel, C. Z.
Application February 6, 1941, Serial No. 377,735
1 Claim. (Cl. 229—1.5)

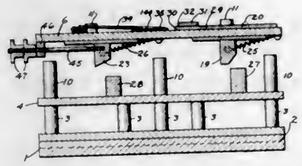


In a paper cup of the type having pleats in its side edges for permitting the front and rear faces to be placed close together, tabs on the outer faces of the front and rear parts of the cup, each tab having a free part to be bent to form a finger grip, each tab being formed of a longitudinally extending strip of material having one half connected with a wall of the cup and the other half free.

2,286,466
OIL ACID-MODIFIED POLYHYDRIC ALCOHOL-POLYBASIC ACID RESIN
Edwin T. Clocker, Bethlehem, Pa.
No Drawing. Application May 4, 1939, Serial No. 271,719
14 Claims. (Cl. 260—22)

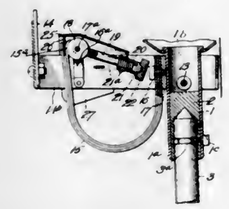
1. The method of producing a resin from a fatty acid, a polybasic acid and a polyhydric alcohol, which comprises heating essentially maleic acid and a nonconjugated, unsaturated, nonhydroxylated aliphatic acid having from ten to twenty-four carbon atoms in the carbon chain at elevated temperatures in the substantial absence of free polyhydric alcohol until reaction between the acids has taken place, and then adding a polyhydric alcohol to the reaction mass and producing the reaction between the acidic groups of the acids and the hydroxyl groups of the polyhydric alcohol.

2,286,467
FOLDING MACHINE
Elmer D. Coston, St. Louis, Mo., assignor to Manufacturers Supplies Company, St. Louis, Mo., a corporation of Missouri
Application March 21, 1940, Serial No. 325,127
13 Claims. (Cl. 12—55)



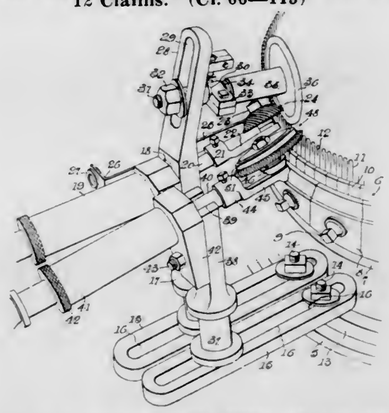
1. A machine for folding parts of material such as leather, comprising, a work support for holding a piece of material to be folded, a wiper having an edge gauge arranged to abut the unfolded edge of the piece to be folded, a forming member having a forming edge arranged to depress the material to be folded below the surface of said wiper, a hold down plate, and means for moving said wiper and said former laterally relative to each other and to the hold down plate, said wiper arranged to bear unrestrainedly against the work support.

2,286,468
POSTURE CHAIR
Roy A. Cramer and Jesse F. Cramer, Kansas City, Mo.
Application May 1, 1939, Serial No. 270,982
5 Claims. (Cl. 155—164)



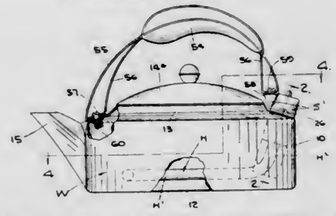
1. In a chair, a seat support, a seat carried by said seat support, a back member pivotally connected to the seat support, a leaf spring projecting from the seat support, a yoke rockingly mounted in the back member, a roller journaled in the yoke and in rolling engagement with the leaf spring, the center of pivotal movement of the back member being so related to the spring that force imposed by the spring on the roller tends to pivot the back member forwardly toward the seat when the back member is tilted rearwardly, and manually operable means for swinging the yoke to shift the axis of the roller in relation to the back member to increase the tension on said spring.

2,286,469
CIRCULAR KNITTING MACHINE
Earl Crommie, Waterville, N. Y., assignor to Waterville Textile Mills, Inc., Waterville, N. Y., a corporation of New York
Application July 31, 1941, Serial No. 404,914
12 Claims. (Cl. 66—113)



1. In a circular knitting machine, the combination with a rotary needle cylinder carrying a circle of spring beard needles, of a sinker burr coperating with the needles for laying-in yarn, and a combination beard closing and stitch landing and cast-off wheel unit located adjacent the sinker burr and including a beard closing disc portion and a spaced blade equipped stitch landing and casting-off portion engageable with and having rotation imparted thereto by said needles.

2,286,470
ELECTRIC TEAKETTLE
Kenneth B. Dafforn and Russell I. Huffman, Dover, Ohio, assignors to Knapp-Monarch Company, St. Louis, Mo., a corporation of Missouri
Application April 9, 1941, Serial No. 387,596
9 Claims. (Cl. 219—44)



1. An electric teakettle comprising a water container having a cylindrical wall, a spout at one side thereof, said container including an upper wall extending inwardly from the periphery of said cylindrical wall and defining a central opening, a removable lid for said control opening, an elongated encased heating element formed in the shape of a pair of arms and a ring of less diameter than said cylindrical wall, means for suspending said heating element in said water container with said ring adjacent the bottom thereof and said arms curved upwardly away from said ring and toward said upper wall, said means including a socket fitting depending from the lower surface of said upper wall, the terminal ends of said arms extending into said socket fitting, means to seal said terminal ends relative

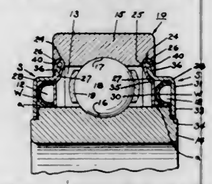
thereto, said socket fitting having a pocket depending between the terminal ends of said heating element, a thermostat in said pocket, and current supply prongs connected with said heating element and thermostat.

2,286,471
FOCUSING SYSTEM
Joseph Dahl, Schwerin, Germany
Application February 10, 1939, Serial No. 255,721
In Germany February 26, 1938
14 Claims. (Cl. 88—24)



1. A device for focusing optical apparatus, comprising means for visibly producing substantially complementary partial images in at least two parallel planes which are axially spaced from each other, said means comprising strip-shaped screen surfaces alternating with blank intermediate surfaces in each of said parallel planes, in a staggered complementary relationship, whereby a comparison of the sharpness of the partial images produced by said spaced planes is facilitated.

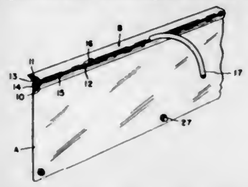
2,286,472
BEARING SEAL
Thomas C. Delaval-Crow, Bristol, Conn., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 26, 1940, Serial No. 342,412
3 Claims. (Cl. 286—5)



1. In a sealing device for closing the annular space between two relatively rotatable members, a seal engaging face on one of said members, a casing secured to said other member and forming an annular groove opening towards said seal engaging face, an inherently flat and flexible resilient sealing washer of uniform thickness axially deformed to a convexed radial section and compressibly confined by said groove for bodily and yieldable movement in said groove, said convexed washer being supportably engaged only adjacent its inner and outer peripheries and along a mid portion of its convexed section, and the resiliency of the washer urging the washer peripheries respectively into relatively movable sealing engagement with the bottom of said groove and into relatively movable sealing contact with said seal engaging face.

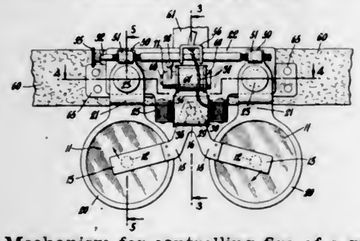
2,286,473
PAINT MASK STRUCTURE
James Edward Duggan, Detroit, Mich.
Application July 29, 1940, Serial No. 348,264
14 Claims. (Cl. 91—65)

6. A mask structure of the class described having an apron, and a supporting member therefor, the apron being a light flexible sheet, and the supporting member being a flexible suction strip extending along one edge of and secured throughout its length to said apron, said suction strip being provided throughout its length with



a concave suction face and one or more suction passages in communication with said concave face.

2,286,474
FIRE CONTROL
Hobart N. Durham, Munsey Park, N. Y., and George B. Finnegan, Jr., Mountain Lakes, N. J.
Application December 15, 1937, Serial No. 179,896
9 Claims. (Cl. 33—66)



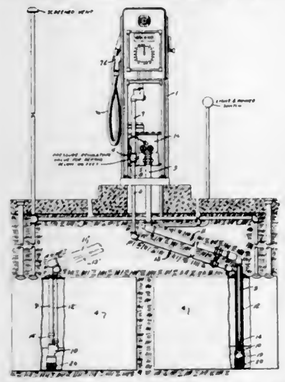
1. Mechanism for controlling fire of a gun using projectiles which are visible for at least a portion of their trajectory, including in combination, a color filter transparency, means for maintaining said color filter in the line of vision of an observer at the gun for viewing the target and trajectory of said projectile, electrically-operated means for suddenly removing said filter from the line of vision of the observer to inform him when the projectile has reached a selected point on its trajectory, a switch at a flank position and circuit connections therefrom to the electrically-operated means for controlling the movement of the filter from a flank position.

5. Mechanism for fire observation and control including in combination a pair of viewing lenses adapted to be positioned before the eyes of an observer, means for fastening said lenses in said position on the head of the observer, a color filter transparency normally lying in the line of vision of the observer, and electromagnetic means for moving said colored transparency out out of said line of vision.

2,286,475
TREATMENT OF HYDROCARBONS
Gustav Egloff and Charles G. Dryer, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Original application June 27, 1938, Serial No. 216,068. Divided and this application November 12, 1940, Serial No. 365,230
8 Claims. (Cl. 44—9)

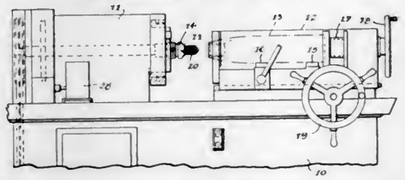
1. A method for stabilizing gasoline against deterioration thereof on storage which comprises adding to the gasoline a relatively small amount of an N-substituted aminophenol in which one of the amino hydrogen atoms has been replaced by an alkyl group and the other by a hydroxy alkyl group.

2,286,476
GASOLINE DISPENSING PUMP
Earl E. Eickmeyer, Dayton, Ohio, assignor to The Dayton Pump and Manufacturing Company, Dayton, Ohio, a corporation of Ohio
Application May 23, 1938, Serial No. 209,459
2 Claims. (Cl. 221—95)



1. In combination in a liquid dispensing apparatus, a liquid fuel storage tank, a liquid dispensing pump and motor for operating same remote from said tank, means communicating with said pump for measuring the liquid dispensed, a main feed line connecting said tank to said pump, a jet pump disposed in said tank and communicating with the discharge side of said dispensing pump and main feed line, a dispensing conduit and nozzle connected to said liquid dispensing pump, and means comprising a foot valve disposed on the lower end of said main feed line in said tank and adapted to prevent the return of liquid from the main feed line back into said tank to maintain the main feed line, jet pump and dispensing pump filled with liquid.

2,286,477
COMBINED THREADING AND FACING DEVICE
Lorne Secord Falls, Windsor, Ontario, Canada
Application April 28, 1941, Serial No. 390,711
12 Claims. (Cl. 10—154)



1. The combination of a tool provided with two working surfaces, means to rotate continuously said tool whereby work may be performed with one of said surfaces by a rotating movement when said tool is aligned with the work, selective means to impart a revolving motion to said tool while said tool is rotating whereby work may be performed with the other of said surfaces independently of said first surface.

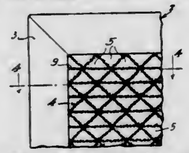
2,286,478
METHOD OF MANUFACTURING CATHODE-RAY TUBE TARGETS
Philo T. Farnsworth, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware
Application December 27, 1940, Serial No. 371,935
4 Claims. (Cl. 250—164)

4. The method of manufacturing a cathode ray tube target which comprises winding thread of incandescent material about elongated supporting material, arranging said supporting material to provide a plurality of adjacent strips thereof, applying a metallic backing to said ar-



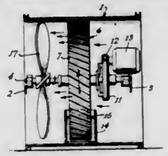
ranged strips to provide a unitary structure, removing portions of said thread at the surface of said structure opposite said backing, removing said supporting material from said structure, and spacing the free ends of said thread to obtain substantially uniform spacing thereof.

2,286,479
AIR FILTER PANEL
Morrill N. Farr, Los Angeles, Calif.
Continuation of application Serial No. 285,904, July 22, 1939. This application April 4, 1940, Serial No. 327,833
8 Claims. (Cl. 183—69)



1. An air filtering panel, which comprises layers of alternate crimped and uncrimped mesh members packed together, the crimps of said crimped mesh members spacing the mesh members apart and subdividing the panel into a multiplicity of passages extending through the panel, the crimps changing in direction to cause the said passages to change in direction.

2,286,480
AIR PURIFIER OR CONDITIONER
Morrill N. Farr, Los Angeles, Calif.
Application July 1, 1940, Serial No. 343,449
2 Claims. (Cl. 261—92)

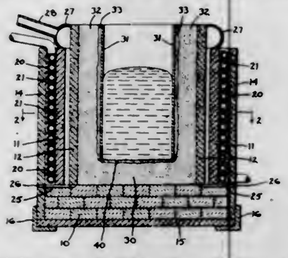


1. An air purifying apparatus, comprising a member forming an air duct, a rotatable reticulated body mounted in the air duct with its axis of rotation aligned with the direction of flow of air through the air duct, the reticulated body having a multiplicity of air passages extending from side to side of said body which are open to the air passing through said duct, means for wetting a portion of the lower part of said reticulated body, the passages through said reticulated body being formed on a bias so that such passages immediately after they rotate upwardly from the wetting means each incline upwardly towards the outlet side of the reticulated body.

2,286,481
INDUCTION FURNACE
Henry C. Fisher, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application July 5, 1940, Serial No. 343,923
1 Claim. (Cl. 13—27)

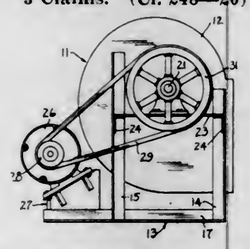
An induction furnace comprising an asbestos box, a refractory bottom in said asbestos box, a spirally wound hollow induction coil inside of

said box whereby water may be circulated through the coil, a furnace wall having a passage inside of said induction coil, connections for admitting air under pressure to the passage, a lining of granular refractory material inside of said wall, and a sintered portion in the inside of said lining constituting the crucible for the furnace, the construction trapping any molten



metal which penetrates the lining before it reaches the water cooled induction coil by allowing the molten metal to flow into the passage which is cooled by the air under pressure and which thereby cools the refractory granular material to cause a steep temperature gradient between the crucible and the wall, thereby quickly to freeze any metal or slag penetrating the sintered crucible to increase the life of the lining.

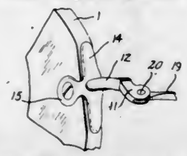
2,286,482
MOTOR SUPPORT
Edward A. Freed, Moline, Ill.
Application May 24, 1940, Serial No. 336,901
3 Claims. (Cl. 248—20)



1. In a motor support, a vertical member, a pair of parallel resilient plates secured to said vertical member and extending laterally therefrom, said plates being positioned at an angle relative to the vertical and at different levels with respect to each other, and a motor base secured to the free ends of said plates and disposed in an inclined position.

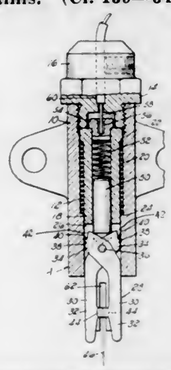
2,286,483
OPHTHALMIC MOUNTING
Marvin J. Gould, New Brunswick, N. J., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application November 25, 1939, Serial No. 306,126
2 Claims. (Cl. 88—53)

1. In a device of the character described comprising lens holding means adapted to be secured to lenses, said lens holding means each having a lens strap shaped to overlie a portion of the side surface of a lens and also overlie an edge of a lens with said side surface and edge portions being angularly disposed relative to each other and with the edge portion being substantially parallel with an edjacent portion of the lens, an endpiece for each of said lens straps, each lens strap and endpiece having a bendable endpiece spacing member therebetween for angularly adjusting the relationship of the endpiece to the edge portion of the lens strap, each endpiece spacing member having a lateral twist of less than a 90° angle formed therein intermediate the ends thereof and having one surface of said endpiece spacing member being connected to the edge portion of the lens strap, and a surface adjacent the opposing end of the spacing



member being fixedly connected to said endpiece, and temples pivotally connected to each of said endpieces to the end that the distance between the temple pivotal means on the opposing sides of the mounting may be varied to more readily conform to the facial characteristics by bending said endpiece connecting member to conform to the requirements of the individual and the positional relation of the assembled parts may be altered to assume a desired positional relation with the lenses at different locations of attachment to said lenses.

2,286,484
TRIPPING MECHANISM
George J. Grizey, Canton, Conn., assignor to Veeder-Root Incorporated, Hartford, Conn., a corporation of Connecticut
Application August 9, 1940, Serial No. 351,925
5 Claims. (Cl. 139—349)

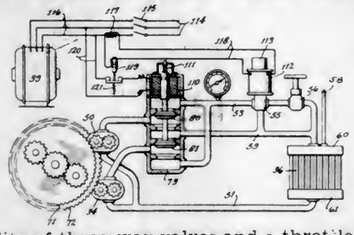


1. In a loom controlling structure, a drop wire carrier comprising a pair of members pivoted relative to each other and movable from a closed to an open position, means for normally maintaining said carrier members in a closed position wherein the members support a drop wire, means for opening said carrier members to release the drop wire carried thereby, and means automatically operable upon the opening of the carrier members for retaining same open.

2,286,485
HYDRAULIC GEAR TRANSMISSION
Frederic W. Hild, Los Angeles, Calif.
Application November 20, 1939, Serial No. 305,325
24 Claims. (Cl. 74—293)

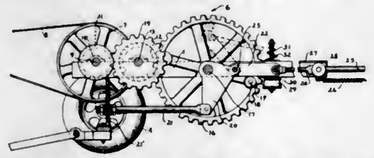
1. An hydraulic gear transmission having

means for transforming and transmitting power to its output shaft so as to have the characteristic of infinite graduations of torque for any speed between zero and maximum of said shaft, said means comprising a planetary gearing and an hydraulic circulatory system for controlling the operation of the gearing, said system comprising one or more pressure pumps driven by said gearing for circulating fluid, a reservoir having an opening to atmosphere, valve means including a



plurality of three-way valves and a throttle valve for controlling and varying the fluid circulation and the pump pressures, and conduit means for the system, each three-way valve being adapted for by-passing the throttle valve and for diverting the circulating fluid to the reservoir in order to expose said fluid to the atmosphere thereby reducing the pressure of the circuiating fluid and eliminating unwanted torque on the output shaft by members of said gearing.

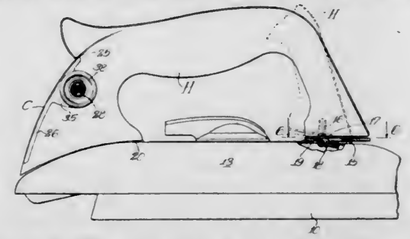
2,286,486
POWER MECHANISM FOR HAY BALERS
Willie A. Hill, De Leon, Tex.
Application August 2, 1939, Serial No. 288,044
9 Claims. (Cl. 74—44)



1. The combination with hay baler mechanism, of a power unit therefor comprising a plunger rod adapted to actuate the baler mechanism, a link pivotally supported at one end and pivotally connected at its opposite end with the plunger rod, means normally tending to hold said link approximately on dead-center, a rotary member adjacent said link and having a pin carried thereby eccentrically thereof in position to engage the link intermediate its pivotal connections for moving said link from said dead-center position and actuating the plunger rod.

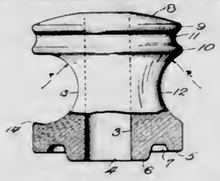
2,286,487
SADIRON
Russell I. Huffman, Dover, Ohio, assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Missouri
Application March 5, 1941, Serial No. 381,872
6 Claims. (Cl. 219—25)

6. A sadiron structure comprising a sole plate, a shell thereon having a perforation adjacent its front end, a handle for said sadiron, a plate secured to the front end of said handle in spaced relation thereto, a hook member formed from said plate for coaction with said perforation, said plate being spaced from said shell when said hook coacts therewith and providing a heat dissipating fin, the rear end of said handle having a cavity therein, a cover plate for said cavity, said handle having a groove adjacent the top of said cavity to receive the top of said cover plate, a single screw for retaining said cover plate in position over said cavity, said screw extending into said shell to also retain the rear end of said handle thereon and to retain said



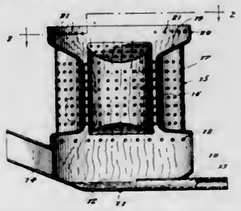
hook engaged with the edge of said perforation, said handle having a seat communicating with said cavity, a current supply cord seated therein, and a retainer element for retaining said cord in said seat, said cover plate coacting with said retainer element to secure it in assembled position.

2,286,488
SPOOL INSULATOR
Lewis E. Johnson, Arlington, Tex., assignor to Porcelain Products, Inc., Findlay, Ohio, a corporation of Delaware
Application July 24, 1940, Serial No. 347,339
6 Claims. (Cl. 174—174)



1. In a spool insulator formed of a single mass of insulating material generally cylindrical in form with an axial opening, a circular base portion, and a circular top portion, the insulator having a peripheral groove between said base and top portions, and a tangentially grooved portion intersecting said peripheral groove.

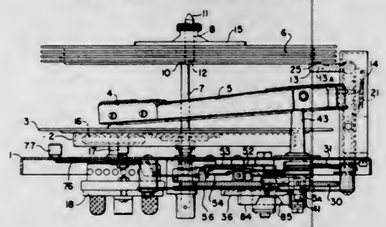
2,286,489
LIQUID FUEL BURNER
Daniel M. Jones, Irving, Tex., assignor to Richard S. Moore, Grand Prairie, Tex.
Application January 30, 1940, Serial No. 316,418
1 Claim. (Cl. 158—91)



A burner of the class described comprising a body having a fuel compartment at its lower end and an open upper end of a diameter equal to the greatest diameter of the body, means for feeding fuel to the fuel compartment, said body having a plurality of spaced inwardly-pressed

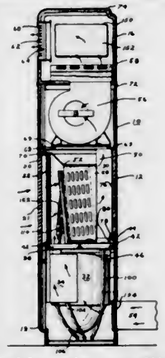
portions in the side walls thereof terminating in spaced relation with respect to the upper and lower ends of the body, the inwardly-pressed portions having lower ends inclined inwardly and upwardly for directing flame from the fuel compartment toward the center of the body, said inwardly-pressed portions also having outwardly and upwardly inclined upper ends for spreading the flame outwardly throughout the entire circumference of the open upper end of the body, the inwardly-pressed portions providing a restricted central passage flanked by a plurality of straight upwardly-directed draft passages laterally of the inwardly-pressed portions, the body having perforations below the inwardly-pressed portions and near the top of the fuel compartment, the inwardly-pressed portions having perforations and the side walls of the body being perforated, the upper inclined ends of the inwardly-pressed portions also being perforated, and the body having perforations near its upper end just above the inwardly-pressed portions, the perforations facilitating combustion and the formation of the body providing means to concentrate and then spread the flame and accelerate the upward passage of the flame.

2,286,490
RECORD CHANGING APPARATUS
Arthur L. Knox, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware
Application April 29, 1940, Serial No. 332,252
13 Claims. (Cl. 274—10)



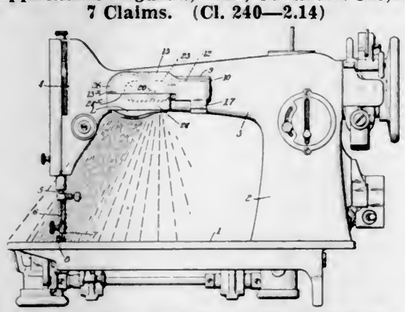
6. An automatic record-changing apparatus comprising a rotatable turntable; a fixed offset spindle extending above said turntable, said spindle having a shoulder for supporting a stack of records by engaging the edge of the centering aperture of the lowermost record of said stack; fixed peripheral supporting means adjacent to said turntable for cooperating in supporting a stack of records by engaging a peripheral edge portion of the lowermost record of said stack when said record is of relatively large diameter; movable peripheral supporting means adjacent to said turntable for cooperating in supporting a stack of records by engaging a peripheral edge portion of the lowermost record of said stack when said record is of relatively small diameter; releasable locking means operatively associated with said movable peripheral supporting means for normally retaining said movable peripheral supporting means in supporting position, said locking means being actuated by a record of relatively large diameter when it moves into the lowermost supported position for releasing said movable peripheral supporting means to move out of supporting position; disengaging means adapted to engage a peripheral wall of the lowermost supported record; means for moving said disengaging means for moving the lowermost supported record to playing position on said turntable; and means for restoring said movable peripheral supporting means to a locked supporting position after a record of relatively large diameter has been moved to the turntable.

2,286,491
REFRIGERATING APPARATUS
Andrew A. Kucher, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application March 30, 1940, Serial No. 326,853
4 Claims. (Cl. 183—32)



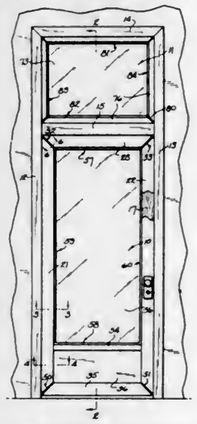
2. In a portable air conditioning unit, a cabinet forming an air flow passage, a self-contained volatile refrigerant system removably suported within said cabinet directly in the air flow passage, a blower and blower motor permanently mounted within said cabinet, an opening in one wall of said cabinet through which said volatile refrigerant system may be inserted into said cabinet and withdrawn from said cabinet as a self-contained unit, a closure member for said opening, and removable filter elements carried by said closure member.

2,286,492
LENS ATTACHMENT FOR SEWING MACHINE LIGHTING DEVICES
Wilfred O. Langille, Chester, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application August 2, 1940, Serial No. 350,049
7 Claims. (Cl. 240—2.14)



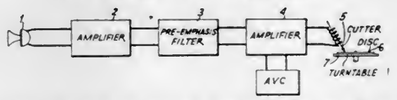
1. In a sewing machine having a lighting device including an electric lamp and a lamp-shade overlying said lamp, a lens-supporting means comprising a frame, means including a spring arm carried by said frame and extending upwardly and laterally into overlying contact with the upper surface of said lamp-shade for securing said frame in contact with the lower edge of said lamp-shade, means for effecting a light-tight joint between said lamp-shade and said frame, and a light-concentrating lens within said frame beneath said lamp.

2,286,493
DOOR CONSTRUCTION
Clyde D. Lowry, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application July 27, 1939, Serial No. 286,876
5 Claims. (Cl. 20—35)



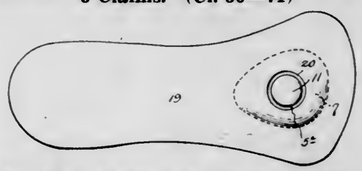
1. A door construction, comprising a wooden frame including horizontal top and bottom rails and vertical stiles, extruded metal strips of substantially channel formation fitting over said horizontal top and bottom rails and vertical stiles and secured thereto, and means arranged between and loosely connecting the metal strips together at their adjacent ends to provide for relative expansion and contraction between the wooden frame and metallic covering therefor at the corners of the door.

2,286,494
SOUND TRANSLATING SYSTEM
Roland A. Lynn, Teaneck, N. J., and Jarrett L. Hathaway, Manhasset, N. Y., assignors to Radio Corporation of America, a corporation of Delaware
Application February 28, 1940, Serial No. 321,186
12 Claims. (Cl. 179—100.4)



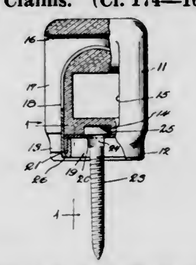
1. In the art of sound translating and reproducing, the method which comprises translating the sound into electrical waves, filtering such of said waves as lie at the low frequency end of the audible spectrum so as to derive a substantially flat response characteristic of cutter velocity in relation to frequency, filtering such of said waves as lie in the intermediate portion of the audible spectrum so as to derive a response characteristic wherein the cutter velocity rises in direct proportion to the frequency, and filtering such of said waves as lie above said intermediate portion of the audible spectrum so as to derive a response characteristic wherein the cutter velocity rises non-linearly in relation to the frequency.

2,286,495
ARCH SUPPORT
Ralph D. Matteson, Boise, Idaho
Application January 15, 1940, Serial No. 313,997
3 Claims. (Cl. 36—71)



1. An arch supporting device adapted to be arranged interiorly of a shoe, comprising a pair of similar sheet rubber insole members conforming to the shape of the shoe bottom, said insole members being superimposed and adhered together throughout the major portion of their adjacent surfaces and except at predetermined opposed restricted areas to form an air pocket therebetween arranged to provide an arch support when inflated, and a disk of soft rubber adhered to one of said insole members within said areas, whereby the pocket may be inflated or partially deflated to the desired degree at will by means of a pump having a nozzle provided with a needle to puncture said disk and the insole member to which it is secured, said disk being capable of automatically sealing its puncture upon withdrawal of the needle of the pump from the latter.

2,286,496
WIRE HOLDER
Edwin M. Meyer, Parkersburg, W. Va., assignor to Porcelain Products, Inc., Findlay, Ohio, a corporation of Delaware
Application November 29, 1938, Serial No. 243,035
4 Claims. (Cl. 174—165)

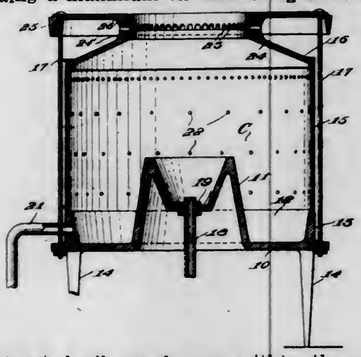


1. In an insulator, an insulating body having a base and a transverse wire-receiving passageway, a diametrical channel in the base, a second passageway transversely through the body parallel to said channel and above the wire-receiving passageway, a strut in extended contact with the base of said channel, said strut having a web extending longitudinally of the body and away from said transverse passageways, a strap passing through the second passageway and having its ends overlying and interlocked with said web and an attaching means carried by said strut.

2,286,497
POT TYPE VAPORIZING OIL BURNER
James Miceli and Jacob Teller, Chicago, and Arthur P. Schulz, Hinsdale, Ill., assignors to G. & J. Teller, Chicago, Ill., a partnership composed of Grace Teller and Jacob Teller
Application September 21, 1938, Serial No. 231,076
4 Claims. (Cl. 158—91)

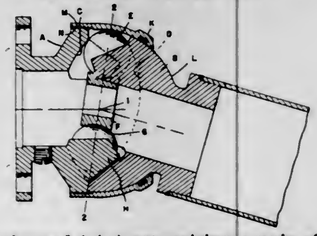
1. An oil burner unit comprising a circular bot-

tom plate having an annular vertical flange adjacent its margin, the plate having a central annular raised portion concentric with the flange and defining an oil trough between same and the flange, the raised portion extending substantially above the upper edge of the flange for providing a maximum oil contacting surface, an



unobstructed oil supply cup within the raised portion and including side walls in continuation of the raised portion and a bottom substantially at the level of the upper edge of the flange, an upper centrally apertured flame plate member, and a drum having air openings therein disposed between the bottom plate and the flame plate member.

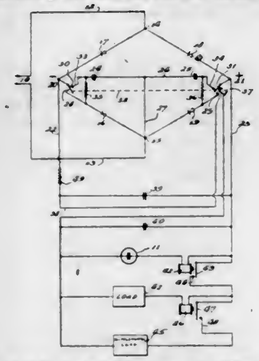
2,286,498
UNIVERSAL JOINT
Fred F. Miller, Jr., Ferndale, Mich., assignor to Gear Grinding Machine Company, Hamtramck, Mich., a corporation of Michigan
Application September 21, 1939, Serial No. 295,967
10 Claims. (Cl. 64—21)



1. A universal joint comprising a pair of members having opposed spherical surfaces centered in the axes of the respective members and spaced from each other by a dimension less than the radius of the sphere, a floating system of balls between said surfaces, and torque transmitting means projecting axially from said members and interspersed with said balls.

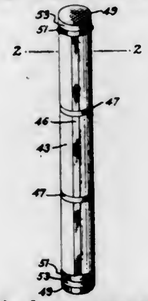
2,286,499
RECTIFIER
Eugen Mittelmann, Chicago, Ill.
Application December 2, 1940, Serial No. 366,155
12 Claims. (Cl. 175—363)

3. A starting and operating circuit for a gaseous discharge tube including a rectifying circuit, a voltage doubling circuit, an alternating current power source feeding both of said circuits, said tube being initially connected in said doubling circuit, and means for automatically connecting said tube into said rectifying circuit and simultaneously disconnecting it from said doubling circuit upon ignition of the tube, said means comprising an electromagnetically actuated switching device in series connection with



said tube and operable upon the energizing thereof by the surge of current through said tube upon the ignition thereof.

2,286,500
PACKAGE OF LINOLEUM
Thomas Leonard Morrill, Jr., Oakland, and Milton Lawrence Hansen, Albany, Calif., assignors to The Paraffine Companies, Inc., San Francisco, Calif., a corporation of Delaware
Application July 31, 1939, Serial No. 287,520
5 Claims. (Cl. 206—59)

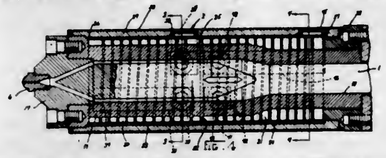


1. A package of linoleum, comprising: a sheet of said linoleum wound helically in the form of a hollow cylinder having a central longitudinal opening therethrough; protective heads at the ends of said cylinder, said heads each comprising a plug fitted into an end of said opening, a disc substantially rigidly attached to said plug, and cushioning material on both sides of said disc; the cushioning material between the ends of said cylinder and said discs being in contact with said ends; the ends of said cylinder, discs and cushioning material being substantially co-extensive; flexible, protective, tough wrapping material wrapped around the cylinder formed by said hollow cylinder and said heads to form an overlap; means to hold said overlap in place; material about each end of the resulting assembly and forming skirts on said wrapping material; and means to hold said skirts in place.

2,286,501
INJECTION CHAMBER HEATING APPARATUS
David C. Narten, Mount Gilead, Ohio, assignor to The Hydraulic Development Corp. Inc., Mount Gilead, Ohio, a corporation of Delaware
Application January 25, 1940, Serial No. 315,577
9 Claims. (Cl. 18—30)

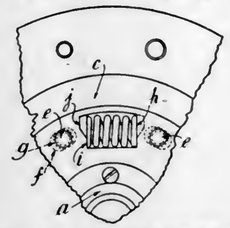
1. Extrusion apparatus comprising an extru-

sion cylinder, means forming a liquid heating passageway around said cylinder, an inlet port for said passageway in a lower portion of said means, an outlet port from said passageway in an upper portion of said means, conduit means terminating adjacent said means at a point removed from said ports, conduits for connecting the termination of said conduit means to said ports, said conduits forming thin, flat channels



disposed substantially transverse with respect to each other and arranged closely adjacent the outer face of said passageway-forming means, heating fluid supply means connected with said conduit means, and controlling means associated with said conduit means and adapted substantially to prevent escape of heating fluid from said inlet port to said fluid supply means in case of failure of the latter.

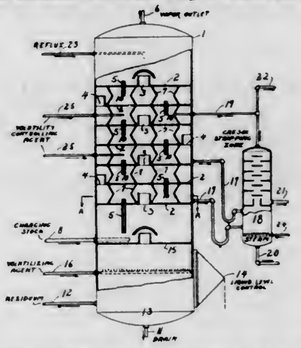
2,286,502
CLUTCH PLATE
Noel Banner Newton, Acton, London, England
Application February 18, 1939, Serial No. 257,090
In Great Britain February 25, 1938
5 Claims. (Cl. 192—68)



1. A driven plate assembly for friction clutches comprising a hub member having a flange, a friction member comprising a friction plate overlapping said flange, said flange and friction plate being provided in their overlapped parts with registering openings and coil springs seated in said openings between the end walls thereof, each end wall being adapted to engage the end of its spring at two points, the immediately adjacent end walls being shaped so that at each end of a spring there is always at least one of the engagement points of the end walls out of contact with the spring.

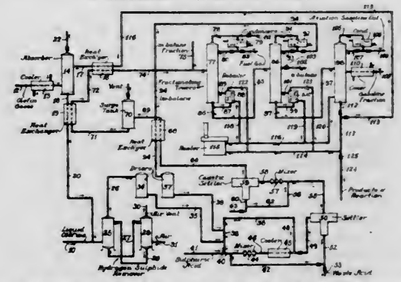
2,286,503
PROCESS FOR SEGREGATING HYDROCARBONS
Ernest A. Ocon, Yonkers, N. Y.
Application June 29, 1938, Serial No. 216,629
8 Claims. (Cl. 196—13)

1. The method for segregating a liquid concentrate of specific hydrocarbons from a mixture of hydrocarbons, which comprises dispersing into a vapor stream the mixed hydrocarbons in the form of liquid particles together with a volatility controlling compound having greater chemical attraction for the specific hydrocarbons to be segregated, said vapor stream flowing upwardly and through a series of spiral passages, and coalescing said specific hydrocarbons together with volatility controlling agent by centrifugal action on said vapor stream carry-



ing concurrently suspended therein the dispersed liquid particles.

2,286,504
PROCESS FOR THE ALKYLATION OF ISOPARAFFINS
Farrand D. Parker, Los Angeles, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Application January 30, 1939, Serial No. 253,502
6 Claims. (Cl. 196—10)



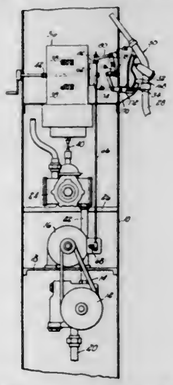
1. In a process for the production of branched chain saturated hydrocarbons boiling within the gasoline range wherein isoparaffinic hydrocarbons are reacted with normally gaseous olefinic hydrocarbons in the presence of an alkylating catalyst, the steps of contacting the gaseous olefins with a hydrocarbon liquid absorbing medium prior to contact with said isoparaffin and alkylating catalyst thereby producing a liquid mixture containing the absorbed olefins, commingling said mixture with liquefied isoparaffins to be alkylated and with the alkylating catalyst thereby forming alkylation products comprising said branched chain saturated hydrocarbons and employing said alkylation products as said liquid absorbing medium.

2,286,505
POLYMERIZED CHLOROPRENE ADHESIVE
John L. Perkins, Arlington, Mass., assignor to B. B. Chemical Co., Boston, Mass., a corporation of Massachusetts
No Drawing. Application March 4, 1940, Serial No. 322,171
2 Claims. (Cl. 260—17)

1. A liquid adhesive composition comprising a colloidal solution of plastic polymerized chloroprene in an organic solvent, said composition containing about ½ to 2½ pounds of polymerized

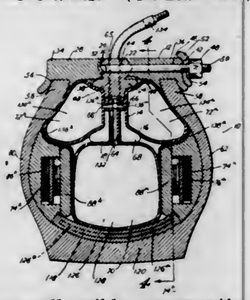
chloroprene per gallon of solution, and ethyl cellulose in amount from about 1% to 10% by weight of the polymerized chloroprene.

2,286,506
REGISTERING MECHANISM DRIVING AND RESET MEANS INTERLOCK
Elden H. Piper, Manchester, Conn., assignor to Veeder-Root Incorporated, Hartford, Conn., a corporation of Connecticut
Application February 29, 1940, Serial No. 321,534
6 Claims. (Cl. 221—95)



1. In combination, registering means, means for driving said registering means, a reset shaft for resetting said registering means to zero, a control lever for said driving means movable from an inoperative position to an operative position to initiate movement of the drive means, cooperating means carried by said reset shaft and said control lever for locking said reset shaft against operation when said control lever is in operative position, a latch member carried by said control lever, a latch abutment carried by said reset shaft, means operative upon movement of said control lever to inoperative position from operative position to position said latch member beneath said latching abutment whereby said control lever may be latched in inoperative position and means carried by said reset shaft for moving said latch member to unlatched position upon resetting of said shaft.

2,286,507
NONCOLLAPSIBLE PNEUMATIC TIRE
Hubert Quinn, North Providence, R. I.
Application April 26, 1941, Serial No. 390,626
15 Claims. (Cl. 152—330)



10. A non-collapsible pneumatic tire for a vehicle wheel rim, comprising a tire casing detachably securable to said rim, a pneumatic tube contained within said tire casing, a plurality of movable rigid supporting members arranged circumferentially of said tire casing exterior of said tube and normally held by said inflated tube in an inoperative position permitting the usual pneumatic resiliency of said tire in use, and means operable on deflation of said tube to successively urge said rigid supporting members to a position rigidly supporting the tire tread on continued rotation of said tire after deflation of said tube.

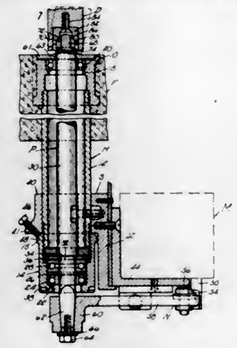
2,286,508
CAPPED RECEPTACLE
Walter C. Rheinfels, Maywood, Ill., assignor to W. C. Ritchie and Company, Chicago, Ill., a corporation of Illinois
Application May 31, 1940, Serial No. 338,115
1 Claim. (Cl. 229—5.5)



In a receptacle having a cylindrical container-body of a compressible material and a removable metal-cap therefor adapted to close the end mouth of said body and having a marginal flange to slide over and to snugly fit over the outside of a portion of said body when the cap is applied in place thereon, the novel combination of an endless circular groove in the outer surface of the material of said body parallel to said mouth, and a plurality of inwardly-directed projections on the inner face of said cap-flange at like distances from the head of the cap and circularly spaced apart and so positioned that when the cap is applied to said body, either directly longitudinally or spirally thereof, said projections compress the material of said body until they enter said groove whereupon said cap may be turned to cause said projections to shift in said groove to bring them out of register with their paths of travel prior to their entry into said groove to prevent unintentional removal of the cap, said groove also facilitating the initial part of a spiral removal of said cap from said container-body.

2,286,509
DOOR OPERATING MECHANISM
Sheldon S. Roby, Meriden, Conn., assignor to The Stanley Works, New Britain, Conn., a corporation of Connecticut
Original application May 2, 1939, Serial No. 271,271. Divided and this application October 7, 1940, Serial No. 359,994
5 Claims. (Cl. 16—129)

1. A device of the character described, comprising a tubular housing adapted to be secured in a floor, a pivot pin rotatably mounted in the housing and extending above same, a pivot arm carried by the upper end of said pivot pin and rotatable therewith, said arm having an upwardly facing convex surface, and a cooperating door



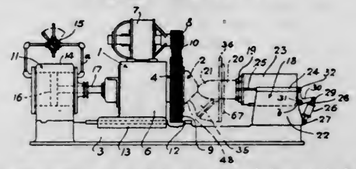
supporting plate adapted to overlie said arm, the lower surface of said plate being recessed to provide a downwardly facing concave surface of corresponding curvature to the convex surface of the pivot arm, whereby said door supporting plate may be angularly adjusted relative to the arm.

2,286,510
COLLAR AND METHOD OF MAKING THE SAME
Wilton Rubinstein, Clayton, Mo., assignor, by direct and mesne assignments, of one-half to Edward Greensfelder and Mercantile-Commerce Bank and Trust Company, trustees under the will of Wilton Rubinstein, deceased, and one-half to Edward Greensfelder and Mercantile-Commerce Bank and Trust Company, trustees for Blanche Rubinstein, Louise Rubinstein, Ann Rubinstein, and Peggy Rubinstein
Application September 29, 1939, Serial No. 297,116
12 Claims. (Cl. 2—131)



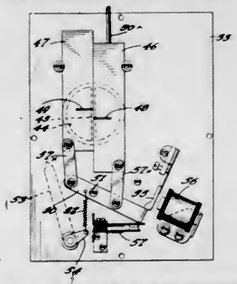
1. A turned down collar comprising exposed and infold plies having reentrant notches at their ends near the connection of the band and the cape, a line of stitches attaching said plies together near their ends and near the lower edges of the cape portions thereof and forming angles complementary to said notches, the margins of said plies between their edges and said lines of stitches extending inwardly between said plies and having cuts extending from the corners of said notches toward and terminating a short distance from said line of stitches, band and cape lining sections confined between said plies and having curved upper edges separated by an intervening longitudinal fold line space terminating at said cuts at opposite ends of said collar and having their ends extending at relatively opposite sides of said margins at the ends of the collar, and parallel lines of stitches attaching the upper edges of said lining sections to said infold ply and cooperating with said edges of said lining sections to define and form said fold line space from one of said cuts to the other.

2,286,511
TUBE NOSING MACHINE
Edgar W. Schulenberg, Dunkirk, N. Y., assignor to American Locomotive Company, New York, N. Y., a corporation of New York
Application December 6, 1940, Serial No. 368,788
1 Claim. (Cl. 80—12)



A tube-nosing machine comprising a tube support; a roll support having spaced parts; means for rotating one of said supports; means for moving one of said supports towards the other of said supports in the direction of the axis of said rotation; and at least three tube-nosing rolls within said space spaced circumferentially about said axis, and similarly inclined towards said axis in a direction away from said tube support, each of said rolls being mounted in said parts for free rotation about its axis through contact with said tube, said roll axes being fixed with relation to each other, each of said rolls having a tube-engaging face for rolling said nose throughout the entire length of said nose, said face being circular in radial cross section and being of largest radius at its end nearest said tube support, said face extending from its said end of largest radius to the point of smallest radius of said face providing a major portion of said face concave throughout in axial sections and gradually decreasing in radius from said end of largest radius to said point of smallest radius.

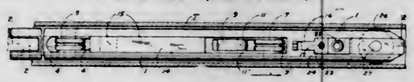
2,286,512
SYNCHRONIZER TESTER MEANS FOR CAMERAS
Morris Schwartz, New York, and William Castedello, Huntington, N. Y., assignors, by direct and mesne assignments, to The Kalart Company, Inc., New York, N. Y., a corporation of New York
Application March 21, 1939, Serial No. 263,194
16 Claims. (Cl. 88—14)



1. In an apparatus for determining the synchronization of the optimum opening of a camera shutter with the peak intensity illumination of a photoflash bulb, said synchronization being obtained through the adjustment of a synchronizer unit associated with the objective including said camera shutter for tripping the shutter, said apparatus including a tester unit mounted in line with the axis of the lens of said camera objective, said apparatus having a light source in connection therewith, a pair of members mounted for movement in opposite directions in

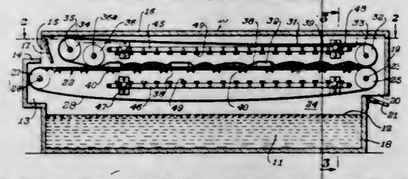
said tester unit, a slit in each of said members through which the light from said light source may project, an electro-magnetic device for controlling the operation of said slidable members, a circuit including said electro-magnetic device, a battery and said synchronizer unit, said electro-magnetic device made operable through the medium of switch releasing means in said synchronizer unit; and the position of said sliding members and the slits therein on the opening of said camera shutter by the operation of said synchronizer unit determining the time of the opening of said shutter relative to the operation of the switch release of said synchronizer unit whereby to enable the adjustment of said synchronizer unit.

2,286,513
INSIDE FLASH REMOVER
George W. Sower, University Heights, Ohio, assignor to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey
Application December 5, 1940, Serial No. 368,657
5 Claims. (Cl. 90—24)



1. In an inside flash remover of the type described, a frame, a pair of longitudinally spaced top rolls supported on axes rigidly carried by said frame, a cutting tool rigidly positioned in said frame and having a cutting edge disposed adjacent one of said top rolls, means for adjusting the position of the cutting edge of said tool relative to the point of contact of said one of said top rolls with the surface of the tube, a bottom roll between said top rolls, floating support means for said bottom roll whereby limited movement of said bottom roll relative to said frame may be had, and spring means tending to move said bottom roll in one direction transversely of the tube and to move said frame and top rolls in the opposite direction.

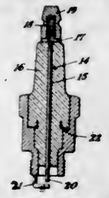
2,286,514
APPARATUS AND METHOD FOR COOLING FOODS AND THE LIKE
Harry Y. Stebbins, Los Angeles, Calif.
Application June 6, 1938, Serial No. 211,996
17 Claims. (Cl. 62—104)



6. In a device of the character described, a sheet for the support of products to be refrigerated, a separate flexible covering for said products superimposed on said belt, said sheet and covering coacting to encase the products, and fluid spray means to urge said covering to closely conform to the shape of the products.

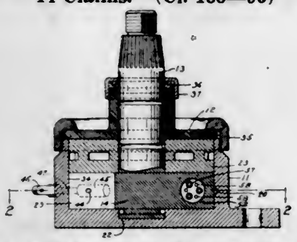
2,286,515
SPARK PLUG AND METHOD OF MAKING THE SAME
Semon H. Stupakoff, Pittsburgh, Pa., assignor to The Spark King Corporation, New York, N. Y., a corporation of Delaware
Application September 11, 1940, Serial No. 356,240
18 Claims. (Cl. 123—169)

1. A spark-plug comprising a metal jacket, a central electrode including a length of Kovar, a Kovar member permanently fused to the jacket, and a glass insulator cast in the jacket and



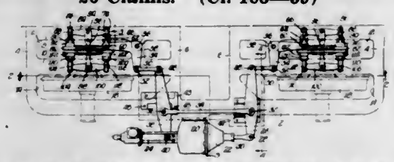
around said electrode length and against said member and fused to the two parts last mentioned by the setting of the glass.

2,286,516
AIRFOIL HINGE
Alfred J. Swanson, Los Angeles, Calif.
Application May 6, 1940, Serial No. 333,514
14 Claims. (Cl. 188—93)



1. An airfoil hinge including a shaft, bearings for the shaft, and hydraulic friction means adapted to impose varied degrees of resistance to rotation of said shaft in said bearings in selected angular zones of rotation, said friction means comprising an hydraulic working chamber structure supporting said bearings for the shaft, a rotary piston on said shaft operative within a working chamber, an opening through said rotary piston from one side of the working chamber to the other, a pair of inertia pistons with offset orifices therethrough movable within said opening in the rotary piston, spring means for normally holding said inertia pistons in position permitting free flow of hydraulic liquid therethrough, and a valved duct for conveying hydraulic liquid around said rotary piston.

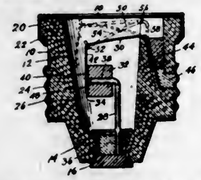
2,286,517
DISK BRAKE
Carl E. Tack, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application October 23, 1940, Serial No. 362,309
26 Claims. (Cl. 188—59)



1. In a railway car truck, a frame, a supporting wheel and axle assembly having a rotatable braking disk, dead truck levers fulcrumed at their upper ends from said frame outboard said disk, a tie bar connecting the lower ends of said dead levers, live and dead truck levers supported from said frame at the opposite side of said disk,

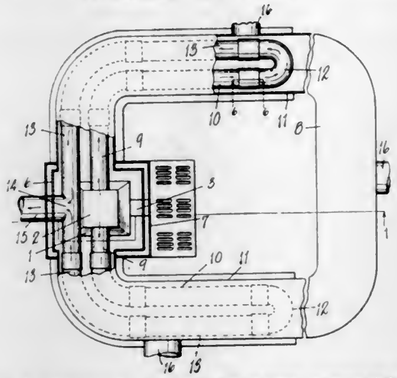
a tie bar connecting the lower ends of said last-mentioned levers, a pull rod adjustably connecting said tie bars, brake heads and brake shoes supported on each of said levers for engagement with opposite faces of said disk at opposite sides of said axle, the brake heads and brake shoes engaging opposite faces of said disk being aligned transversely of said truck, and means for actuating said live truck lever, said actuating means comprising a bell crank fulcrumed on said frame.

2,286,518
FUSIBLE PROTECTIVE DEVICE
Elmer H. Taylor, Newburyport, Mass., assignor to The Chase-Shawmut Company, Newburyport, Mass., a corporation of Massachusetts
Application February 13, 1940, Serial No. 318,697
7 Claims. (Cl. 200—123)



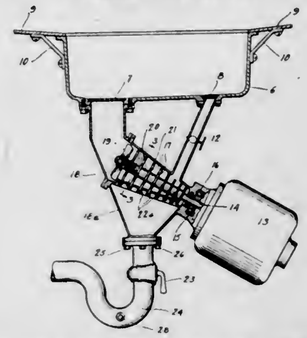
1. In a fusible protective device, a rigid metal heating conductor of relatively small mass anchored at one end, a relatively large heat absorbent mass electrically and mechanically connected to the other end of said heating conductor and carried by said end, a flexible conductor, a relatively small mass of readily fusible metal electrically connecting one end of said flexible conductor to said heat absorbent mass, and means responsive to the fusing of said readily fusible metal to move said flexible conductor away from said heat absorbent mass, said heat absorbent mass being large as compared with the mass of said readily fusible metal to delay the fusing of the latter.

2,286,519
HEATING SYSTEM
Thomas W. Torr, Dowagiac, Mich., assignor to The Rudy Furnace Company, Dowagiac, Mich.
Application October 12, 1940, Serial No. 360,891
11 Claims. (Cl. 237—55)



7. A heating system for buildings, comprising a furnace discharging hot gaseous products of combustion to a radiator member, means for supplying air to be heated, a loop type hot air duct communicating with said supply means, a loop-like radiator having an outgoing radiator leg opening to and receiving said gaseous products from said radiator member and extending for a substantial distance lengthwise interiorly of said duct and a return leg of substantial length extending side by side with said outgoing leg for a substantial distance lengthwise interiorly of the duct and communicating at its outer end with said outgoing leg, and a plurality of take-off conduits opening to said hot air duct along the length thereof.

2,286,520
GARBAGE DISPOSER
Dale O. Tranbarger, Seattle, Wash.
Application April 28, 1941, Serial No. 390,787
1 Claim. (Cl. 83—6)

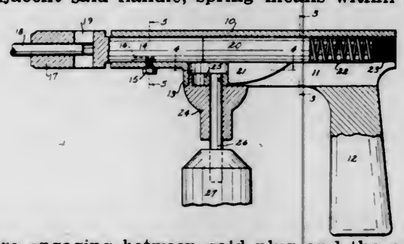


In combination, a sink, a drain outlet in the bottom of said sink, a conduit leading from said outlet to a sewer trap beneath the sink, said conduit having an enlarged portion therein including an inclined concave wall of the conduit and a slotted convex plate covering the discharge opening from said conduit, the said concave wall of the conduit and the convex plate forming a substantially conical grinding chamber, the axis of which is inclined toward its apex, an electric motor attached to the conduit at the lower end of the grinding chamber and having its shaft extending co-axially upwardly through the conical grinding chamber, said shaft supporting, for rotation therewith, a series of flat generally rectangular shaped cutting blades of graduated sizes and having graduated spacing, the large blades being located adjacent the large end of the conical grinding chamber and spaced the greater distance apart and the small blades being adjacent the apex of such chamber and spaced closer together, the ends of said blades passing through the slots in said convex plate to cut and force garbage through said plate and into the discharge end of the conduit above the trap.

2,286,521
HAMMER DRILL ATTACHMENT FOR ELECTRIC MOTORS
Earl N. Walter, Denver, Colo.
Application September 3, 1940, Serial No. 355,181
4 Claims. (Cl. 125—33)

1. A hammer attachment for operative association with electric motors and equivalent rotary power units, comprising an elongate frame formed with a longitudinal bore opening through both of its ends, a handle on and disposed radially of one end of said frame, a slot communicating with and radially of said bore through the handled portion of said frame, a plunger mounted for limited reciprocation within and extended at one end outwardly beyond the end

of said bore remote from said handle, tool-supporting means associated with the outwardly-extending end of said plunger, an impact element freely reciprocable in said bore for impact effect on said plunger, a radial fin on said impact element slidably engaging in said slot, a plug threadedly engaging the end of said bore adjacent said handle, spring means within said

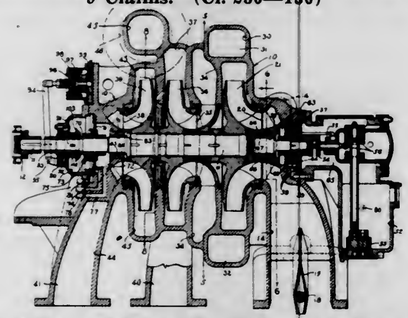


bore engaging between said plug and the adjacent end of said impact element to urge the latter into end engagement against said plunger, a rotatable cam carried by said frame for engagement with one end of said fin to retract said impact element against the pressure of said spring means, and means for operatively connecting said cam with the rotatably-driven element of a power unit.

2,286,522

CENTRIFUGAL COMPRESSOR

Ralph M. Watson, Bloomfield, N. J., assignor to Worthington Pump and Machinery Corporation, Harrison, N. J., a corporation of Delaware
Application April 13, 1940, Serial No. 329,498
9 Claims. (Cl. 230—130)



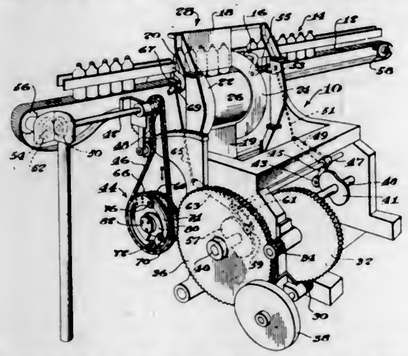
5. In a multi-stage centrifugal machine for compressing gas or vapor wherein the pressure of material compressed increases in geometric progression from stage to stage with the absolute discharge pressure of each stage bearing a substantially constant ratio to its inlet pressure, a casing, a plurality of impellers of substantially equal diameter in said casing, said impellers arranged in sets of unequal numbers of impellers with the impellers in each set constituting successive stages of compression and with the impellers in one set disposed in back to back relation with the impellers in the other set to approximately equalize the end thrust of the impellers.

2,286,523

CONVEYER AND DRIVING MECHANISM THEREFOR

Arthur F. Whitehead, Wollaston, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application June 14, 1940, Serial No. 340,515
8 Claims. (Cl. 198—34)

1. In a conveyer of the character described, in combination, a continuously moving belt upon which articles are transported, a movable stop member adapted to be projected into the path of said articles to bring them to rest on the conveyer while the belt continues to move, means

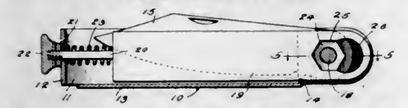


for operating said stop member, and positively operating means for reducing the linear speed of said belt at predetermined intervals coinciding with the operation of said stop member whereby to reduce to a minmum the impact between an article and the stop member.

2,286,524

POCKETKNIFE

Wallace D. Wilbur, Boise, Idaho
Application May 20, 1941, Serial No. 394,346
7 Claims. (Cl. 30—161)

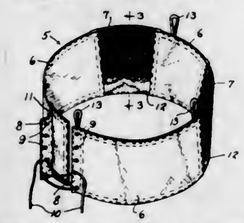


4. In a pocket knife, a handle, a blade pivoted therein and having a polygonal hub at its pivoted end, and a latch mounted in said handle and engageable with said polygonal hub when the blade is in different positions with respect to the handle.

2,286,525

STOCKING GARTER

Flora May Woodward, San Francisco, Calif.
Application January 29, 1941, Serial No. 376,532
1 Claim. (Cl. 2—312)

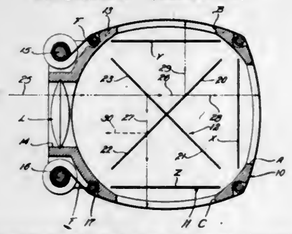


A split garter of substantially inverted cone-shape configuration for surrounding and enclosing the rolled upper ends of hoses comprising, non-elastic fabric sections, elastic sections connecting the non-elastic fabric sections, eyelets in the opposed open ends of certain of the fabric sections, a tongue secured to one of the opposed open ends of the fabric sections and covering the eyelets on the inner sides thereof, a non-elastic strip secured to the lower portions of the non-elastic fabric sections over the inner surfaces of the elastic sections, a lacing disposed in the eyelets and supporting loops on the upper edges of the fabric sections.

2,286,526

OPTICAL SYSTEM FOR CAMERAS AND THE LIKE

Walter L. Wright, Santa Monica, Calif., assignor to Synchrome Corporation, Santa Monica, Calif., a corporation of California
Application October 11, 1940, Serial No. 360,774
10 Claims. (Cl. 88—1)

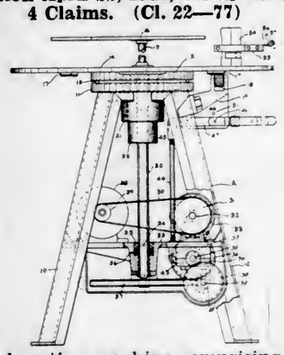


1. In photographic apparatus, a structure having an intermediate film aperture, side film apertures at each side of the intermediate apertures and a light admitting opening opposite the intermediate aperture, and light dividing means comprising an assembly of crossed reflectors of light transmitting material in the path of the light admitted by said opening, said assembly including front reflector sections and rear reflector sections, each transmitting a portion of the light and reflecting a portion of the light laterally toward the side apertures, the material of the front sections being clear the material of the rear sections having a lower light transmitting capacity than the material of the two front reflectors to control the light values at the apertures.

2,286,527

GRID CASTING MACHINE

Alvy C. Yerkey, deceased, late of Chicago, Ill., by Anna C. Yerkey, executrix, Maywood, Ill.
Application April 22, 1940, Serial No. 331,052
4 Claims. (Cl. 22—77)



2. A grid casting machine comprising a frame, a table rotatably mounted on said frame, said table being adapted to support a plurality of molds, a member rigidly mounted on said table, a second member rigidly mounted on said frame and adapted to engage first-mentioned member, one of the members being equipped with an irregular surface for engaging the other member when the table is rotated whereby rotation of the table and the engagement of the members produces a shaking of the table.

2,286,528

RADIAL BALL BEARING

Lloyd Yost, Los Angeles, Calif., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application May 1, 1941, Serial No. 391,339
6 Claims. (Cl. 308—185)

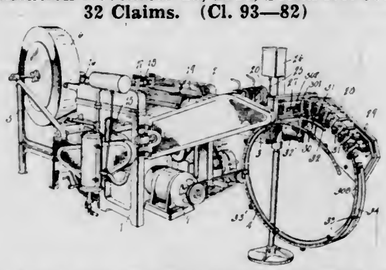


1. In a bearing of the class described between radially spaced concentric members disposed for relative rotation, a ball race secured to the surface of one of said members facing said other member and having a ball retaining groove in its surface facing the other member, the plane of said groove lying oblique to the axis of the rotating member, and a set of rotating bearing elements disposed in the groove and engaging a cylindrical surface on said other member.

2,286,529

MACHINE AND METHOD FOR MAKING GARMENT HANGERS

Leonard A. Young, Detroit, Mich., assignor to Bowen Products Corporation, Ecorse, Mich.
Application November 18, 1940, Serial No. 366,138
32 Claims. (Cl. 93—82)

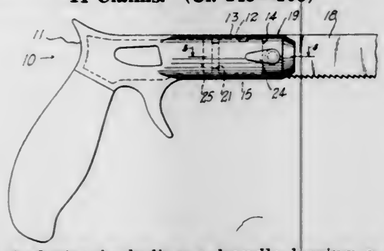


9. A machine for forming paper tubes, comprising means for advancing fibrous web material, means for applying adhesive to said material, means for assembling said material in multi-ply form, means for conforming said multi-ply material to tubular section while advancing the same, means for guiding the advancing tube in a curvilinear path to thereby form it into a curvilinear outline, and means through which said tube advances for maintaining the same in such curved outline while advancing until the adhesive is substantially set, said last named means delivering the curved tube on the discharge side thereof.

25. In the manufacture of curved paper tubes, the steps of assembling and advancing plies of fibrous material to provide an elongated length

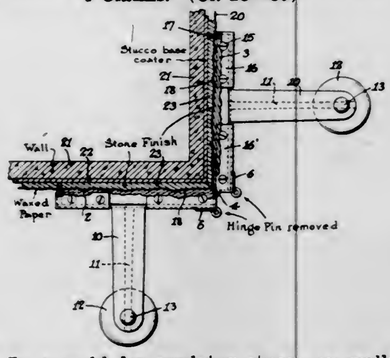
of fibrous multi-ply stock, forming said multi-ply stock while advancing into a tube, and confining the path of the advancing tube to a curved outline to set the tube in an arcuate curvilinear configuration.

2,286,530
SAW
William J. Fordon, Elizabeth, N. J., assignor to Rose Gringer, New York, N. Y.
Application October 21, 1940, Serial No. 362,058
11 Claims. (Cl. 145—108)



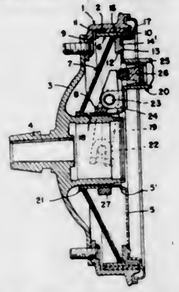
1. A device including a handle having a portion having a circular elongated bore open at one end, a member journaled in said bore, said member being slotted from its outer end to a point spaced from its inner end to constitute the member an expansible U-shaped spring, a set screw to cause expansion of the member for clamping engagement with the wall of the bore to prevent rotation of the member in any angular position of the latter, said set screw being arranged to operate by exerting pressure between the arms of the U-shaped spring, and a flat blade shank consisting of a metal substantially harder than the metal of the said member, said blade shank being removably and snugly disposed in the slot of the member and being positioned to form a bearing surface for said set screw in causing said expansion of the member and so that the set screw clamps the blade shank to the member, whereby the set screw serves simultaneously to clamp the member against rotation and to secure the blade shank in rigid operative position, with the bearing seat afforded by the blade shank preventing the pressing out of burrs in the surface of said slot which would prevent insertion of the blade shank into the slot.

2,286,531
METHOD AND MOLD FOR APPLYING STUCCO ON WALLS TO REPRESENT STONE
Douglas S. Fralick, Milwaukee, Wis.
Application February 10, 1941, Serial No. 378,195
9 Claims. (Cl. 18—59)



6. In a mold for applying stucco on walls to represent stone, the combination of a pair of molds having their face formed to represent stone, vent holes through the molds bored at their thinnest portions to prevent the formation of vacuums when the mold is withdrawn from the wall, rubber fins projecting forwardly beyond the operative surface of the molds to a sufficient distance to hold a sheet of waxed paper and to also retain a desired amount of stucco finish, sheet metal guards secured to the molds and holding the said rubber fins in place, a hinged connection for the molds, supports cast integral with the molds, handles secured to said supports, the supports each having a longitudinal rib to engage the handles to anchor them against turning, the handles being recessed to receive said ribs.

2,286,532
FRICTION COUPLING
Phelps M. Freer, Detroit, Mich.
Application August 2, 1940, Serial No. 349,882
32 Claims. (Cl. 188—78)



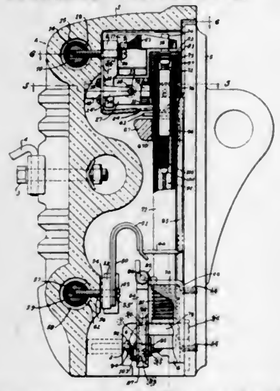
1. In a friction coupling, the combination of two relatively rotatable elements, one of said elements having an internal friction face and the other of said elements being a self-contained unit comprising a plate, a friction member movable relative to said plate and engageable with said internal friction face, and actuating means comprising a resilient dished disc operatively connected to said friction member and adapted when being flattened to expand and radially move said friction member against said internal friction face and when being allowed to resume its normal dish to contract and radially move said friction member away from said internal friction face.

2,286,533
MATCH-BOOK PACKAGE
William C. Gartelman, Chicago, Ill.
Application June 1, 1939, Serial No. 276,911
3 Claims. (Cl. 206—29)



1. A book match package having in combination, combs of matches; a cover comprising a single strip of material with an intermediate portion passing in back of the matches; a short stub section of said cover folded over upon itself in front of the supporting ends of the matches and secured thereto to form a retaining tab; an end portion adjacent said stub section extending upwardly and over the match heads to form an inner cover to protect the ignitible heads from sparks and from coming in contact with movable sections, said portion also having an abrasive section formed on its outer surface adjacent its fixed end thereof; the other free end of said strip of material extending upwardly behind said matches and over the match heads and down in front thereof to form a front flap and arranged to have its lower end inserted behind said tab when in closed position; said retaining tab having its folded edge portion arranged to form with said abrasive striking section a guide shoulder lengthwise of said striking section secured adjacent thereto when outer cover is in open position.

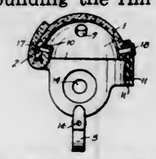
2,286,534
ELECTRICAL CUTOUT
George W. Goldner, St. Louis, Mo., assignor to James R. Kearney Corporation, St. Louis, Mo., a corporation of Missouri
Application February 23, 1940, Serial No. 320,254
12 Claims. (Cl. 200—118)



5. A cutout comprising a fuse mechanism having open and closed circuit positions, a separable fuse link associated with said fuse mechanism and adapted when intact to prevent movement of said fuse mechanism from closed circuit position but when separated permitting movement of the fuse mechanism to open circuit position, said fuse link comprising a tube formed of electrical insulating material, spaced electrodes supported by and located within said tube to provide a gap therein which is free of obstruction and is adapted to break down to effect flow of current through the fuse link only upon a predetermined voltage, a conductor, fusible means for connecting said conductor to one of said electrodes, said fusible means being adapted to be fused by heat produced by passage of current through the fuse link to release said conductor from its connection to the electrode with which it is normally associated to provide for separation of the fuse link, and a tubular element surrounding a portion of said conducror and disposed adjacent to said fusible means, said tubular element being formed of material which possesses arc-extinguishing properties in the presence of an electrical arc.

2,286,535
MINIATURE HEAD GUARD
Morris E. Goldstein, Denver, Colo.
Application August 12, 1940, Serial No. 352,338
4 Claims. (Cl. 40—1.5)

2. A new article of manufacture of the character described comprising in combination a cup and a band surrounding the rim portion of the



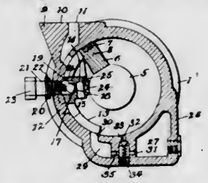
cup and having its ends riveted to the cup and having three depending flaps, the central flap being folded within and riveted to the cup.

2,286,536
GAS VENT VALVE FOR GAS AND LIQUID SEPARATORS
Clement P. Griffith, Fort Wayne, Ind., assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind., a corporation of Indiana
Application June 10, 1938, Serial No. 212,998
1 Claim. (Cl. 251—120)



In a valve mechanism, a valve body, means forming a continuously open passageway of relatively small cross-sectional area, said passageway comprising two bores of different diameters, a mutilated valve seat formed at the junction of said bores, a ball valve in the larger bore, a spring in said smaller bore acting on said valve and means comprising inwardly directed projections for holding said valve in said larger bore, said mutilation serving to form a very restricted by-pass for said valve, said valve, spring and larger bore being so proportioned that, under normal operating conditions, the forces acting on the valve to open it overcome the forces acting on the valve to close it when gas is being discharged, but are overcome by the forces acting to close the valve when liquid is being discharged.

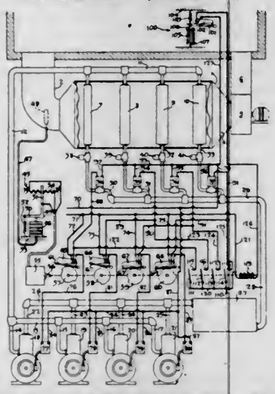
2,286,537
HYDRAULIC MOTOR
Howard F. Gorsuch, Mansfield, Ohio, assignor of one-half to Philip Fupre, Mansfield, Ohio
Application August 30, 1937, Serial No. 161,662
3 Claims. (Cl. 121—38)



1. A hydraulic motor including a casing, a rotor extending axially of the casing, an impeller carried by the rotor and having non-leading contact with the interior surface of the casing, an abutment in the casing to limit movement of the impeller in both directions, a first pressure-fluid passage opening into the casing near one end of the abutment, a second fluid pressure passage opening into the casing near the opposite end of the abutment, a valve block secured within the casing between the ends of the abutment and having non-leaking bearing on the rotor, a passage through the valve block in communication with the interior of the casing on both sides of

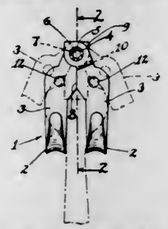
said block, said passage including a valve seat, a valve cooperating with said seat, and means operable from beyond the casing for controlling said valve, said valve controlling the operative pressure influence of the fluid pressure through one of said passages on the impeller without correspondingly affecting the fluid pressure on the impeller through the other of said passages.

2,286,538
AIR CONDITIONING SYSTEM
George D. Guler, Philadelphia, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application February 6, 1937, Serial No. 124,459
19 Claims. (Cl. 62—6)



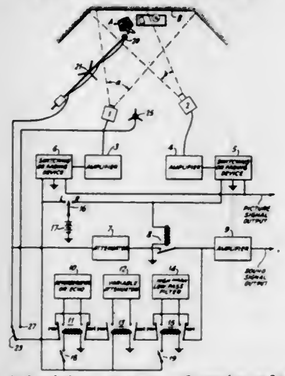
1. In an air conditioning system, in combination, a conditioning chamber, means connecting said conditioning chamber with a space to be conditioned, cooling means in said chamber, means for supplying cooling fluid to said cooling means, control means for graduatingly varying the flow of cooling fluid through said cooling means, control means for graduatingly varying the operation of said cooling fluid supplying means, and temperature and humidity responsive means for controlling said control means, one of said responsive means being arranged to control graduatingly both of said control means, and the other of said responsive means being arranged to cooperate in controlling one only of said control means.

2,286,539
ADJUSTABLE DOUBLE HOOK SUPPORT FIXTURE
Eric Hagerstrom, New York, N. Y.
Application July 24, 1940, Serial No. 347,127
8 Claims. (Cl. 248—215)



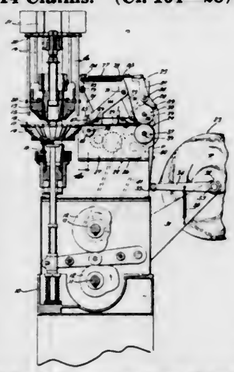
1. A fixture adaptable for supporting any one of varieties of implements having the combination of a pair of hooks each provided with a shank, said shanks being pivoted to each other to preliminarily adjust the lateral distancing of said hooks from each other in connection with installation to adapt the fixture for supporting a particular implement, and each of said shanks being provided with means for securing it to an object in said selected adjusted position.

2,286,540
TELEVISION SYSTEM
Oscar B. Hanson, Westport, Conn., assignor to Radio Corporation of America, a corporation of Delaware
Application March 22, 1939, Serial No. 263,320
9 Claims. (Cl. 178—5.8)



1. In a television system wherein related sound and picture signals are transmitted simultaneously, a first and a second television camera for individually producing picture signals of a common scene, a single microphone for producing related sound signals, a first and a second sound signal channel, and means for selectively utilizing the picture signals from the first or the second television camera and for simultaneously transmitting the sound signals from the single microphone over the first or the second sound signal channel respectively, said first sound signal channel including sound reverberation or echo simulating means, a variable attenuator and a high and low pass filter device.

2,286,541
BLANK CUTTING AND FEEDING MEANS FOR PAPER CUP MACHINES
Leo M. Harvey, Los Angeles, Calif.
Application October 16, 1940, Serial No. 361,332
14 Claims. (Cl. 164—28)



10. A feed for a paper cup machine having cup shaping dies spaced apart prior to actuation and means for cutting the cup blanks, said feed including a table for receiving the blanks as they leave the cutting means, the table having an opening, a continuously rotating conveyor wheel under the opening, a swinging arm above the table, a wheel on the arm normally clear of the table and blanks, and means for swinging the arm down against the blanks whereby the blanks are gripped between the wheels to be shifted between the dies thereby.

2,286,542
ISOMERIZATION OF NORMAL PARAFFINIC HYDROCARBONS
Heinz Heinemann, Pampa, Tex., assignor to the firm Danciger Oil & Refineries, Inc., Tulsa, Okla.
No Drawing. Application December 3, 1940, Serial No. 368,276
18 Claims. (Cl. 260—676)

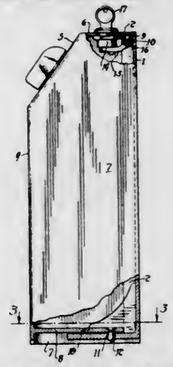
1. A process for isomerizing normal paraffinic hydrocarbons, which comprises treating said paraffinic hydrocarbons at isomerization temperature in the presence of a catalytic composition containing a metal halide known in anhydrous condition as a Friedel-Crafts catalyst, said metal halide being at least partly dissolved in water, admixed with an oxygen containing compound of pentavalent antimony selected from the group consisting of antimony oxide compounds obtained by the action of water on a pentahalide of antimony, antimonic acids, and antimony compounds obtained by decomposing an aqueous solution of a salt of an antimonic acid with an acid.

2,286,543
PROCESS OF ALKYLATING HYDROCARBONS
Heinz Heinemann, Pittsburgh, Pa., assignor to the firm Danciger Oil & Refineries, Inc., Tulsa, Okla.
No Drawing. Application July 10, 1941, Serial No. 401,788
18 Claims. (Cl. 196—10)

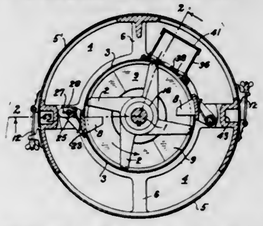
1. A process of alkylating iso-paraffins with olefins, said process comprising reacting an iso-paraffin with an olefin at a temperature of 300° to 500° F. and under a pressure of 300 to 450 lbs. per square inch, in the presence of a catalytic composition containing a metal halide selected from the group consisting of zinc halides, aluminum halides, ferric halides, and stannic halides, in mixture with an oxygen containing compound of antimony selected from the group consisting of antimony compounds obtained by hydrolytic decomposition in aqueous solution, of a water-soluble compound of antimony, oxides and oxide hydrates of antimony, oxy-acids of antimony, and antimony compounds obtained by acidifying an aqueous solution of a salt of an antimonic acid.

2,286,544
WALL BOX
Earle G. Henry, Chicago, Ill., assignor to Buckley Music System, Inc., a corporation of Illinois
Original application August 11, 1939, Serial No. 289,615. Divided and this application October 7, 1940, Serial No. 360,147
4 Claims. (Cl. 220—18)

1. A wall box comprising a rear member having at the bottom a wide, forwardly-projecting flange and at the top a second forwardly-projecting flange, each flange having a hole therethrough, a front member provided with side and top and bottom walls, and downwardly-projecting pins on said top and bottom walls in positions that enable the pins to enter the holes in the flanges of the rear member when the top and bottom walls of the front member are positioned over the said top and bottom flanges, respectively, a large section of the bottom wall of the front section being narrower than the remainder to leave the top of a large portion of said bottom flange uncovered and permit a cable or the like to be threaded through the same.



2,286,545
DISINTEGRATING MILL
Charles J. P. Hoehn, San Francisco, Calif., assignor to Enterprise Foundry Company, San Francisco, Calif., a corporation of California
Application May 25, 1940, Serial No. 337,260
8 Claims. (Cl. 83—11)



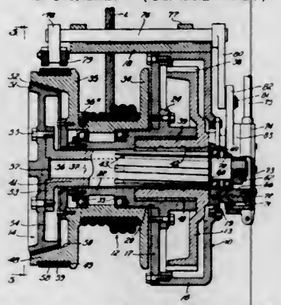
1. In a vertical hammermill having an outer casing and a sectional substantially cylindrical screen spaced within the casing and a rotor within the screen with beater arms extending outwardly to pass between a series of relatively fixed comb teeth, the improvement which comprises a vertically disposed bar or plate to which the comb teeth are secured provided with means pivotally mounting the bar or plate for swinging said comb teeth outwardly from the screen into the space between the casing and the screen, and spring means normally urging said plate or bar with its comb teeth inward to operating position with said screen.

2,286,546
PURIFYING MATERIALS AND METHODS OF USING THE SAME
Robert C. Hopkins, Alliance, Ohio
No Drawing. Application November 17, 1941, Serial No. 419,451
7 Claims. (Cl. 75—93)

2. The process of removing sulphur and oxygen from sulphides and oxides contained in non-ferrous metals which comprises adding to the

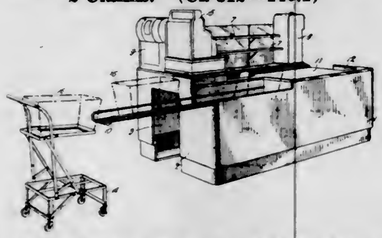
non-ferrous metals while in a molten state up to 10.00 per cent by weight of an agent including between 20.00 and 40.00 per cent copper, between 50.00 and 80.00 per cent zinc, between .25 and 2.00 per cent iron, between .50 and 3.50 per cent manganese, between .10 and 2.00 per cent vanadium, between .10 and 3.00 per cent titanium, between .05 and 1.00 per cent beryllium, and between .40 and 4.00 per cent calcium.

2,286,547
POWER TAKE-OFF ATTACHMENT
Hugh Allen Hutchins, Los Angeles, Calif.
Application February 21, 1939, Serial No. 257,671
8 Claims. (Cl. 254—187)



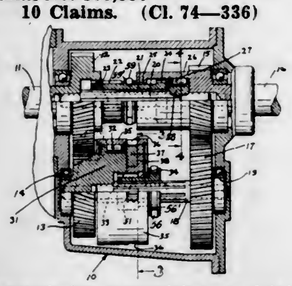
8. A power take-off attachment for a tractor comprising a housing to be attached to the tractor and having a rearwardly projecting extension, a drum rotatable on the extension, a gear in the housing having a hub, a bearing secured in the housing receiving the hub to rotatably support the gear, a rotatable and longitudinally shiftable drive shaft extending through the hub and extension and bearing in the hub to be supported thereby, slidably cooperating splines in the hub and on the shaft whereby the shaft is longitudinally shiftable and is rotated by the gear, clutch parts on the shaft and the rear end of the drum engaged and disengaged by shifting of the shaft, means for rotating the gear, and means on the forward end of the shaft for shifting the shaft longitudinally to engage and disengage the clutch parts.

2,286,548
CHECK-OUT COUNTER
Hartley H. Jackson and Leonard Milgram, Kansas City, Kans.
Application July 31, 1941, Serial No. 404,828
2 Claims. (Cl. 312—140.1)



1. A check-out unit for self-service stores wherein mobile push carts are used by customers to collect their purchases, comprising front and rear portions joined by a side portion having an opening therein, a central counter arranged above said front portion and having a sack well at one end and a slide at the opposite end, said slide extending beyond the side portion and positioned at a level convenient for transferring heavy articles from the push carts to the slide.

2,286,549
AUTOMATIC TRANSMISSION
Rex E. Keller, Beverly Hills, Calif.
Original application March 14, 1934, Serial No. 715,513. Divided and this application April 22, 1940, Serial No. 330,836
10 Claims. (Cl. 74—336)



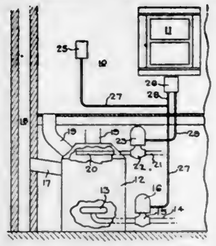
1. A transmission comprising: a driving shaft and a driven shaft, an intermediate shaft alined with the driving and driven shafts, an overrunning clutch arranged for operatively connecting said intermediate shaft with said driven shaft to provide a one-way driving connection, a sleeve slidable on said intermediate shaft having spaced clutch portions thereon, and clutch members connected with said driving shaft and one member of said overrunning clutch whereby when said sleeve is shifted in a given direction a two-way direct driving connection may be established between said driving and driven shafts, and means including gearing connecting said driving and driven shafts around said sleeve and an automatically operable clutch for driving the driven shaft at a speed in excess of that provided by said direct driving connection.

2,286,550
STANDING VALVE PULLER
Judson Kelly, Rivera, and David M. Hammett, Los Angeles, Calif., assignors to Axelson Manufacturing Co., Los Angeles, Calif., a corporation of California
Application February 10, 1941, Serial No. 378,322
7 Claims. (Cl. 294—86)



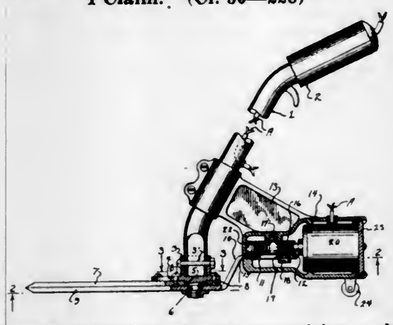
1. In a device for pulling a standing valve having an upwardly directed threaded valve box, the combination of: a puller body; and a double-ended pin including one downwardly projecting threaded end for engaging said valve box and an opposite end threadedly secured to said body, said ends of said pin being identical and formed as thread cutting taps, whereby said pin may be reversed to dispose said opposite end in a position to engage said valve box.

2,286,551
TEMPERATURE AND HUMIDITY CONTROL SYSTEM
George D. Kingsland, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application January 2, 1936, Serial No. 57,315
2 Claims. (Cl. 236—44)



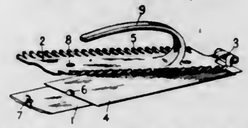
1. In a control system for a space, the combination of humidifying means for the space, heating means for the space, means responsive to space temperature for controlling said heating means, and means responsive to the relative humidity in the space which is affected by conditions outside of the space for controlling said humidifying means and additionally controlling said heating means.

2,286,552
MOTOR DRIVEN GRASS SHEARS
Milton Klose, Manitowoc, Wis.
Application April 26, 1941, Serial No. 390,568
1 Claim. (Cl. 30—228)



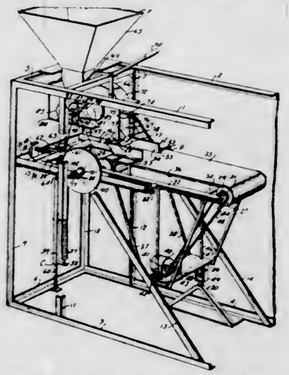
A grass trimming shears comprising a handle, a flanged ferrule secured to its lower end, a boss depending from the flange terminating with a shouldered trunnion, a fixed shear blade having an aperture fitted to the ferrule boss above the shouldered trunnion, bolts for securing the blade to the ferrule flange whereby said blade is held against twisting upon the boss, an oscillatory cutting blade mounted upon the shouldered trunnion extending from the ferrule boss, a motor housing having a neck extending therefrom terminating with a clip engaging the handle and secured thereto, and a motor mounted in the housing in driving gear connection with the oscillatory cutter blade.

2,286,553
SAFETY RAZOR
Albert D. Krigbaum, Columbus, Ohio
Application June 25, 1940, Serial No. 342,322
1 Claim. (Cl. 30—85)



A safety razor comprising a blade holding portion and a handle on the back of said blade holding portion which extends substantially parallel and longitudinally of the said blade holding portion in substantial alignment with the center line thereof and in spaced relation thereto so as to provide a hook-shaped handle for the reception of at least one finger of the hand, said hook-shaped handle being attached to the blade holding portion at one end and being free at its opposite end, so that the thumb of the hand may be applied to the blade holding portion and pressure may be exerted thereon adjacent said free end of the handle, as desired, during the shaving operation.

2,286,554
GRAVIMETRIC FEEDER
Edgar M. Lieberman, Merriam, Kans., assignor to Eric W. Bacharach, Kansas City, Mo.
Application August 18, 1939, Serial No. 290,801
7 Claims. (Cl. 221—118)

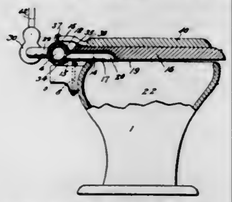


7. Apparatus of the character described including, a support, a beam fulcrumed on the support, a platform fulcrumed on the beam substantially in horizontal register with the beam and provided with a travelling belt conveyor, a counterbalance for the beam, means for feeding material to the conveyor, means for retaining the platform and conveyor substantially horizontal regardless of variation in angularity of the beam resulting from variation of load on the platform, and means operable in response to variation in angularity of the beam controlling said feeding means.

2,286,555
TOILET SEAT AND HINGE COMBINATION
William Long, Waldo, Wis.
Application January 16, 1941, Serial No. 374,620
4 Claims. (Cl. 4—213)

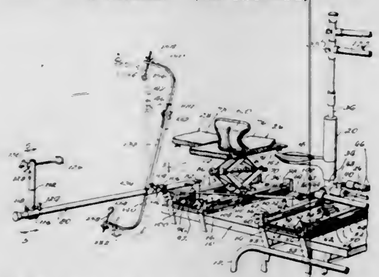
1. In a device as described, a tubular pintle, caps closing each end of the pintle, tubular hinge members held in position on the pintle by said

caps, tubular extensions from said hinge members embedded in a toilet seat and having their outer ends opening substantially over the water



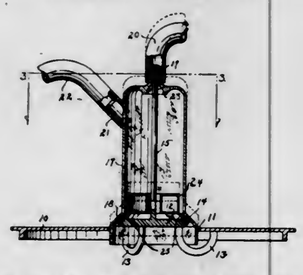
seal of a toilet bowl and a common means for supporting said caps and holding the pintle against rotary movement.

2,286,556
FRACTURE REDUCING APPARATUS
Earl E. Longfellow, Warsaw, Ind., assignor to Harry H. Leiter, Warsaw, Ind.
Application March 2, 1940, Serial No. 321,863
8 Claims. (Cl. 128—84)



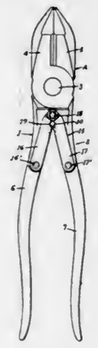
8. A fracture reducing apparatus, including in combination, a traction bar, supporting means for said bar, means for applying traction in a direction generally parallel to said traction bar including a post adjustably mounted for rotation about the bar and longitudinal movement along the traction bar, and other traction applying means including a substantially U-shaped frame mounted on said bar intermediate the legs thereof and between said post and the bar supporting means, the legs of said U-shaped frame extending away from the axis of the bar, whereby counter-traction may be exerted thereby.

2,286,557
VALVE FOR MILKING MACHINES
Jesse R. Lowry, Des Moines, Iowa
Application July 22, 1940, Serial No. 346,682
8 Claims. (Cl. 31—82)



5. In a device of the class described, a plate member having an opening, a disc having a diameter substantially less than that of the opening in said plate member, bracket means for supporting said disc in a position above the opening in said plate member, an inverted cup member mounted for vertical reciprocation and having a bottom flared portion capable of engaging and resting on the periphery of said disc member when in a lowered position, and a tube communicating with the inside of said inverted cup member.

2,286,558
TOOL FOR CONNECTING ELECTRICAL CONDUCTORS AND THE LIKE
Aloysius J. Mahr, St. Louis, Mo., assignor to James R. Kearney Corporation, St. Louis, Mo., a corporation of Missouri
Application March 18, 1940, Serial No. 324,531
2 Claims. (Cl. 140—121)

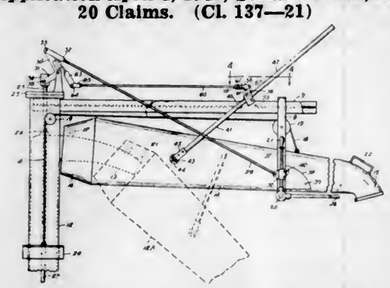


1. A crimping attachment for a pliers having a pair of members pivoted together by a pivot element to provide the pliers with freely movable operating handles at one side of the pivot element and jaws at the opposite side of the pivot element which are movable in response to movement of the handles, said crimping attachment comprising a pair of arms, a pivot member for pivotally connecting said arms together at corresponding end portions thereof, and a pair of pivot members located at the opposite end portions of said arms which pivotally connect one of the arms to one of the pivoted members of the pliers and the other of the arms to the other of the pivoted members of the pliers, said arms being pivoted to the pivoted members of the pliers at points located between the outer ends of the handles of the pliers and the pivot element of said pivoted members of the pliers, and crimping jaw portions forming parts of said arms.

2,286,559
OXIDATION OF ALICYCLIC KETONES
Sumner H. McAllister, Lafayette, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application February 29, 1940, Serial No. 321,478
17 Claims. (Cl. 260—537)

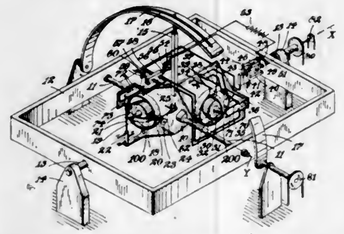
1. A process for the production of glutaric acid which comprises continuously introducing cyclopentanone into a nitric acid-containing solution maintained at a temperature between 70° C. and 110° C., maintaining the concentration of said nitric acid in said solution between about 8% and 18% by continuously introducing fortifying nitric acid, removing the crude reaction mixture and recovering glutaric acid therefrom.

2,286,560
WATER COLUMN
John T. McGarry, Cincinnati, Ohio
Application April 4, 1941, Serial No. 386,953
20 Claims. (Cl. 137—21)



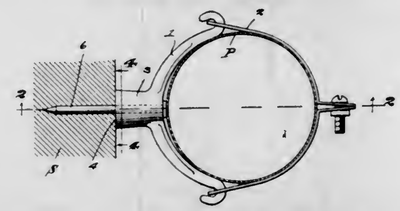
1. A water delivery structure which comprises in combination, a water discharge nozzle and means for supporting same, means including a valve actuatable for supplying water to said nozzle, a spout arranged to receive a forceful stream of water from said nozzle when the valve is opened, and to direct said stream to a reservoir, means supporting the spout for adjustment from a low elevation to a high elevation over the reservoir and means operative substantially concurrently with actuation of the valve, to lock the spout against any tendency of the water stream to alter the elevation of the spout from an adjusted discharging position.

2,286,561
AUTOMATIC CONTROL APPARATUS FOR AIRCRAFT
Frederick William Meredith, London, England, assignor to S. Smith & Sons (Motor Accessories) Limited, London, England, a British company
Application July 7, 1939, Serial No. 283,313
In Great Britain July 13, 1938
8 Claims. (Cl. 244—79)



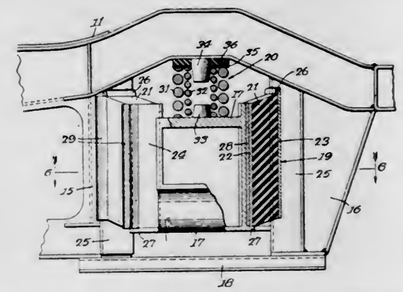
1. A control apparatus for aircraft, comprising a gyroscopic device having the rotor axis normally inclined to the vertical, means operated by said gyroscopic device for controlling the aircraft about a horizontal axis, precessing means for applying a torque to said gyroscopic device about said horizontal axis, said precessing means being rotatable about a second horizontal axis inclined to the first said horizontal axis, means automatically controlling the aircraft about said second horizontal axis and having a part rotatable through a distance corresponding to the angle of movement of the aircraft about said second horizontal axis and a coupling connecting said part to the said precessing means to rotate the precessing means through the said angle so as to maintain the axis about which said torque is applied substantially horizontal.

2,286,562
HANGER FOR CONDUCTOR PIPES
James Merryweather, Greencastle, Ind.
Application April 29, 1941, Serial No. 390,972
1 Claim. (Cl. 248—65)



A hanger of the type described including a yoke having an integral body between its ends, one end of the body providing a support-engaging surface and the other end of the body constituting a surface for engagement by the head of a nail, there being a straight nail-receiving opening of uniform diameter extending through the body from one end to the other, and a nail having a head, said nail being proportioned for insertion into the opening for engagement at one end with the surface of the support engaged by the end of the body and for positioning its head between the terminals of the yoke and away from the yoke and body for engagement by a driving tool, the wall of the opening constituting means for supporting the inserted nail in position against the surface of the support and for guiding said nail while being driven into the support.

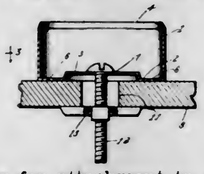
2,286,563
CAR TRUCK
William H. Mussey, Chicago, Ill., assignor to Pullman-Standard Car Manufacturing Company, a corporation of Delaware
Application December 11, 1936, Serial No. 115,424
6 Claims. (Cl. 105—224.1)



1. In a car truck, a journal box, a truck frame having pedestal arms straddling the box, a rubber spring unit interposed between a side of the box and one of the arms to provide a resilient mounting of the frame on the box, means including a substantially V-shaped pocket for mounting the rubber spring unit so that relative movement between the frame and the box in a

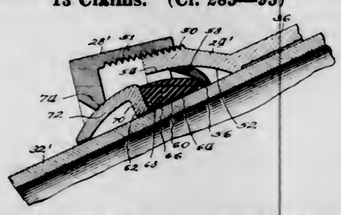
vertical direction places the rubber in shear, in a lateral direction places the rubber in shear and in compression, and in a longitudinal direction places the rubber in compression with substantially no shear, and means including a coil spring for relieving the rubber of substantially all dead load.

2,286,564
CORE MOLD FOR USE WITH CONCRETE FORMS
Charles E. Newell, Atlanta, Ga.
Application July 25, 1940, Serial No. 347,544
2 Claims. (Cl. 25—128)



1. A holder for attachment to a construction form to support a thimble or sleeve comprising a cylindrical cup-like member of metal having a flat bottom provided with a thin raised center portion of resilient thin character, said center portion having an aperture therein, and a toggle bolt in said aperture for securing said bottom to a form provided with a bolt receiving bore.

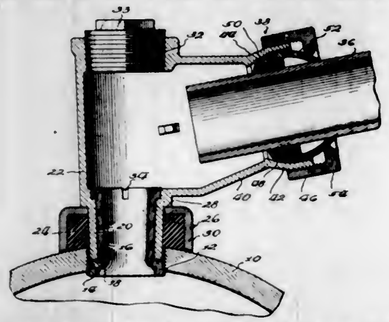
2,286,565
UNIVERSAL PIPE JOINT FITTING
Charles E. Norton, Evanston, Ill., assignor to Norton-McMurray Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application November 9, 1940, Serial No. 364,987
13 Claims. (Cl. 285—95)



1. A pipe joint of the universal type comprising a first member having a spherical inner surface, a metal annulus engaging said surface, said metal annulus comprising a flat washer deformed to provide a generally spherical outer surface and a recessed inner surface, a second annulus comprising an inwardly directed flange and a cylindrical extension deformed to provide a substantially spherical outer surface and a recessed inner surface, a resilient gasket between said annuli and a nut threadedly engaging said member and adapted to press said gasket between said annuli and force said gasket into sealing engagement with the spherical surface of said member and the external surface of a complementary member telescoped into said first member.

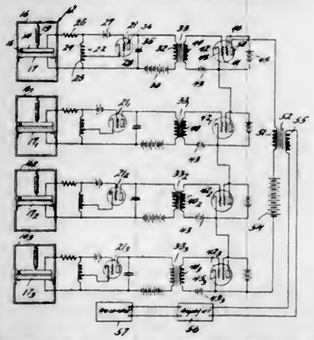
2,286,566
PIPE CONNECTION
Charles E. Norton, Evanston, Ill., assignor to Norton-McMurray Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application January 31, 1941, Serial No. 376,771
10 Claims. (Cl. 285—2)

1. Means for connecting a gas main with a house service pipe in various vertical and horizontal angular relationships comprising a T having a tubular end with a smooth outer surface adapted to be slidably received in a threaded opening in the side of said main, a sleeve having a threaded end adapted to be screwed into said opening and an external shoulder adjacent said end to receive the end of said T, said sleeve having a second external shoulder adapted to overlie a complementary shoulder on said T to lock said T to said main in swiveling relation thereto, a compressible gasket abutting the tubular end of the T and the exterior surface of



the main around said opening, a housing for said gasket urged toward said main by said T, said housing permitting compression of said gasket under the thrust of said T whereby a sealed joint is established between said T and said main, a lateral extension provided by said T, and universal joint means carried by said extension and adapted to form a sealed universal connection between said T and a house service pipe, said T having walls inwardly of said universal joint and adapted to be engaged by the end of said house service pipe to limit movement therebetween.

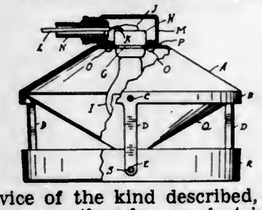
2,286,567
SEISMIC SURVEYING
Josephus O. Parr, Jr., San Antonio, Tex., assignor to Olive S. Petty, San Antonio, Tex.
Application September 12, 1940, Serial No. 356,543
10 Claims. (Cl. 177—352)



4. In apparatus for use in seismic surveying, the combination with a plurality of seismometers having relatively movable elements and means converting the energy of such motion into waveform electrical energy, of energy transmitting means receiving electrical energy from all of said seismometers and transmitting energy only during simultaneous displacement of the moving elements of said seismometers in a direction such

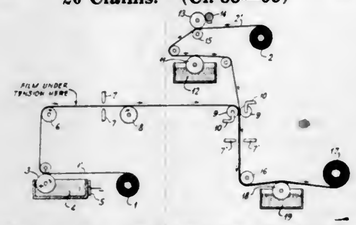
that the output voltages thereof are of the same sign, and recording means operable by energy transmitted by said last named means.

2,286,568
INSECT DESTROYER
Albert C. Petry, Anderson, Ind.
Application April 3, 1941, Serial No. 386,570
5 Claims. (Cl. 43—113)



1. A device of the kind described, comprising a basin, a canopy therefor, an electric receptacle embodied in said canopy at its peak a lamp secured in said receptacle, an inverted shallow cone shaped shade removably attached at its rim immediately at the interior of the rim of and closing the canopy, and spaced upright connector members to detachably hold the canopy and the basin in such spaced relation that the plane of the top of the basin is above the plane of the point of said shade.

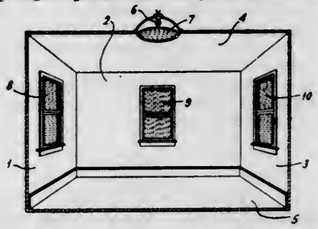
2,286,569
PROCESS FOR PRODUCING LIGHT POLARIZING BODIES
Leon Pollack, Brooklyn, N. Y.
Application March 11, 1938, Serial No. 195,248
20 Claims. (Cl. 88—65)



1. The process of making a light polarizing body which includes the steps of advancing a flexible and stretchable transparent film of supporting material, simultaneously applying to one surface of said film a coating of an organic plastic having embedded therein dichroic particles, applying tension to said film in the direction in which it is traveling to produce stretching which tends to more completely orient said particles in permanent substantial parallelism, and setting said coating while said film is advancing and tension is being applied thereto.

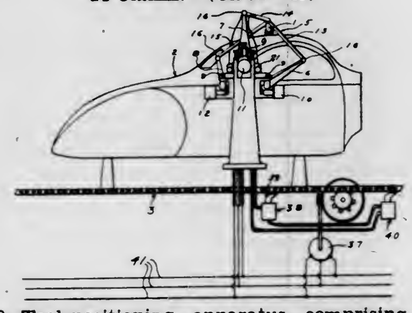
2,286,570
VISIBILITY CONTROL BY MEANS OF POLARIZATION EFFECTS
Leon Pollack, Brooklyn, N. Y.
Application July 6, 1940, Serial No. 344,229
13 Claims. (Cl. 88—65)

1. A lighting system for an enclosed space having side, top and bottom walls of a non-light-reflecting character, comprising a source of light for said space having means for plane polarizing the rays emanating from said source, and a pair of vertically arranged windows located on different side walls of said room and being so constructed and arranged as to transmit only light polarized in planes substantially



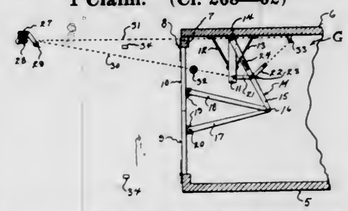
at right angles to the plane of said rays, said windows being substantially optically crossed relative to each other.

2,286,571
POSITION-CONTROLLING APPARATUS
Willard L. V. Pollard, Evanston, Ill.
Application April 22, 1938, Serial No. 203,634
Renewed June 14, 1940
14 Claims. (Cl. 91—45)



9. Tool-positioning apparatus comprising a base, three arms, an individual power means for each of said arms mounted on said base, each of said power means extending to one end of its respective arm and being arranged to produce a control movement of said end relatively to said base, the opposite ends of said arms converging, and a tool connected to and supported by the converging ends of said arms.

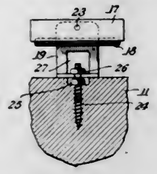
2,286,572
DOOR OPERATING MECHANISM
George W. Quinn, Reedsburg, Wis.
Application August 19, 1940, Serial No. 353,264
1 Claim. (Cl. 268—62)



In a door opening and closing device, a pair of links pivotally connected at their outer ends to swinging doors adjacent to the meeting edges of said doors, a rigid support arranged within a building, a rock lever pivotally mounted at its outer end to the support and to the inner ends of the links, the rock lever being movable over the support, latch levers pivotally secured to the opposite sides of the rock lever for latching engage-

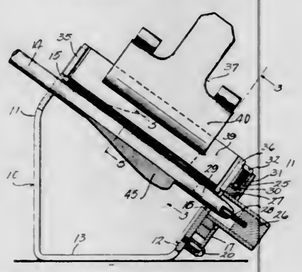
ment with the support at different times, resilient supporting means secured to the rocking lever intermediate its ends, pull cables secured to the outer end of the latch levers and extending in opposite directions therefrom, idle pulleys arranged above the latch levers over which the cables are trained, and guide pulleys for the cables disposed exteriorly of a building and beyond the swinging doors.

2,286,573
DOOR MOUNTING
De Witt Ramsey, Coral Gables, Fla.
Application July 29, 1940, Serial No. 348,221
1 Claim. (Cl. 16—87)



In a door mounting, a hanger member formed from an elongated rectangular shaped plate comprising a vertically depending section having an aperture in the upper center portion and a rectangular recess in the lower center portion, a horizontal section extending laterally from the lower edge of the vertical section having a width approximately corresponding to the width of the upper section, the said horizontal section having an elongated slot opening at the outer edge thereof and directed inward toward the vertical section, and a flange extending horizontally from the bottom of the vertical section in a direction opposed to the horizontal section and corresponding in contour to that of the recess in the lower center portion of the vertical section of the hanger member.

2,286,574
FLETCHING JIG
Walter C. Rohde, Milwaukee, Wis.
Application June 22, 1940, Serial No. 341,979
2 Claims. (Cl. 144—289)



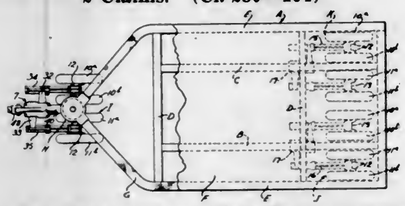
2. A fletching jig having spaced legs, each leg being notched for the reception of an arrow shaft, the side walls of the notches being parallel, a feather clamp having a main clamp fin and a secondary fin urged thereto by spring pressure, the main fin being provided at either end thereof with a guide, the guides being receivable within the parallel walls of the notches in said legs, whereby to accurately position a feather held by said clamp against the shaft of an arrow in said jig.

2,286,575
MOTORCYCLE
Adolph Ronning, Minneapolis, Minn.
Application March 2, 1939, Serial No. 259,361
17 Claims. (Cl. 180—73)



7. A motorcycle comprising, a transversely tiltable frame, front and rear pairs of wheels supporting the frame, means supported by the wheels and differentially connected with the frame for vertically adjusting the wheels relative to each other as said frame is tilted to either side, a power unit carried by the frame, and drive connections between the power unit and one pair of wheels for differentially driving the wheels of said pair in all adjusted positions thereof.

2,286,576
VEHICLE SUSPENSION MECHANISM
Adolph Ronning, Minneapolis, Minn.
Application January 27, 1941, Serial No. 376,163
2 Claims. (Cl. 280—104)

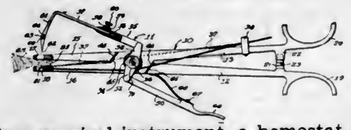


1. In a heavy duty vehicle, a frame, suspension mechanism for supporting the frame comprising four pairs of ground wheels all arranged in substantial axial alignment under the frame and with two pairs of such wheels under each side portion of the frame, a pair of primary differential mechanisms secured to the frame at transversely spaced points, equidistant from the center, so as to proportionately support the two sides of the frame, two support arms extending from each of said differential mechanisms and for swinging movements in opposite vertical directions through differential action of the mechanism, a series of secondary differential mechanisms, one secured to each of said arms, each of said secondary differential mechanisms being supported by one of said wheel pairs and operative to translate up movement of one wheel of the pair to a down movement of the other wheel of the same pair.

2,286,577
PYROMETALLURGICAL PROCESS FOR THE PRODUCTION OF PIG-IRON AND FERRO-CHROMIUM
Percy H. Royster, Montclair, N. J.
No Drawing. Original application March 9, 1939, Serial No. 260,866. Divided and this application August 5, 1941, Serial No. 405,553
4 Claims (Cl. 75—127)

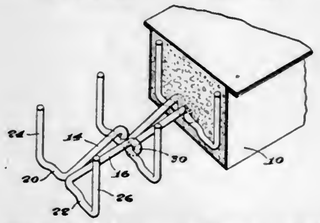
1. Two-step process for the production of pig iron and ferro-chromium from a low-grade chrome ore containing, together with gangue material, a larger ratio of iron to chromium than is desired in the final ferro-chromium product, which comprises as a first step charging into a blast furnace the low-grade chrome ore, solid carbonaceous fuel and a mineral solvent for the chromium oxide content of said ore, said mineral solvent consisting predominantly of the common refractory oxides Al_2O_3, SiO_2, CaO and MgO and low in reducible oxides such as the oxides of iron and manganese, the ingredients of said mineral solvent being so proportioned as to yield with the gangue material of said ore an acid primary slag, operating the blast furnace under minimized reducing conditions adapted to depress metallization of chromium oxide while producing molten iron and a molten acid primary slag solution of chromium oxide in which the concentration of chromium oxide is lower than was the concentration of chromium oxide in said ore, and separating the molten iron from said slag solution, and as a second step smelting the slag solution, in a blast furnace, with solid carbonaceous fuel to produce ferro-chromium and a final slag poor in recoverable metal values.

2,286,578
SURGICAL INSTRUMENT
Simon H. Sauter, Highland Park, Mich.
Application February 11, 1942, Serial No. 430,379
11 Claims. (Cl. 128—340)



3. In a surgical instrument, a hemostat device having pivoted clamping portions engageable with the tissue to be sutured, an attachable and detachable surgical needle holder connectable to said device at the pivot thereof, and a surgical needle arranged to be mounted in said holder, said needle being arcuately curved at its forward portion, and having a transverse suture slot therein for receiving the suture.

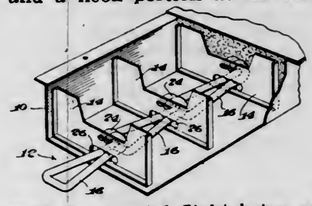
2,286,579
CONVEYING ELEMENT
Arthur C. Schroeder, Syracuse, N. Y., assignor to Redler Conveyor Company, Quincy, Mass., a corporation of Massachusetts
Application February 13, 1941, Serial No. 378,732
13 Claims. (Cl. 198—168)



1. A conveyer flight comprising a unitary length of bar stock shaped to provide a transversely extended open flight and a longitudinally extended tension member projecting medially therefrom, said tension member having provision for detachable connection to an adjacent flight.

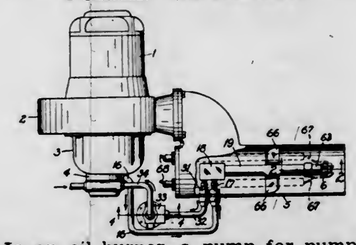
2,286,580
CONVEYING ELEMENT
Arthur C. Schroeder, Syracuse, N. Y., assignor to Redler Conveyor Company, Quincy, Mass., a corporation of Massachusetts
Application February 13, 1941, Serial No. 378,733
10 Claims. (Cl. 198—172)

1. A conveying element adapted to be drawn through a casing, comprising a plurality of articulate flight units, each unit comprising a sheet metal flight and a tension member of bar stock shaped to provide a loop portion at one end thereof and a hook portion at the second end



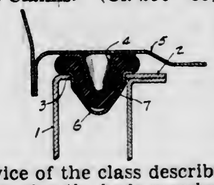
thereof, said sheet metal flight being assembled transversely of the tension member with the loop portion of one tension member disposed within the hook portion of an adjacent tension member and with the flights forming a closure for said hook portions.

2,286,581
OIL BURNER
Lewis L. Scott, St. Louis, Mo.
Application February 29, 1940, Serial No. 321,508
4 Claims. (Cl. 158—36.3)



1. In an oil burner, a pump for pumping oil at relatively high pressure, a spray nozzle, a pipe arranged to conduct oil from the pump to the spray nozzle, a whirling chamber adjacent to the nozzle orifice, an oil by-pass pipe connected to said whirling chamber and arranged to by-pass oil from said whirling chamber to the suction side of the pump, an automatic oil cut-off valve arranged in the oil delivery pipe from the pump, a second automatic oil cut-off valve arranged in the oil by-pass pipe which connects to the nozzle whirling chamber, said valves being so constructed that said first named cut-off valve closes before the second named oil cut-off valve when the oil burner is shut off.

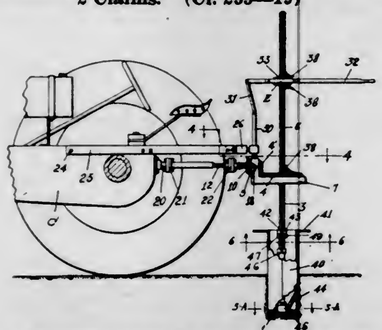
2,286,582
INSULATED BODY MOUNTING FOR AUTOMOBILES
Donald W. Sherman, Shorewood, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application October 31, 1940, Serial No. 363,649
2 Claims. (Cl. 296—35)



1. In a device of the class described, a cushion element for spacing the body member of an automobile from the frame member on which it is

mounted, comprising a cup shaped sheet metal element having an outer flange secured to one member, a projecting sheet metal element having an outer flange secured to the other member and its central portion projecting into and spaced from said cup shaped element, and a resilient cushion element spacing said elements apart and filling said cup shaped element, said cushion element being normally complementary to both of said elements with the exception of a space near its apex to provide an air chamber between it and one of said members and allow for flow of the cushion element.

2,286,583
POWER DRIVEN POSTHOLE BORING MACHINE
Lloyd R. Shoup, Udall, Kans.
Application July 8, 1940, Serial No. 344,402
2 Claims. (Cl. 255—19)



1. In a power driven post-hole boring machine of the class described comprising a shaft vertically disposed operatively, and having an auger secured on the lower end thereof, and power means to turn the shaft, a pair of semi-circular flanged casings, the flanges being at the upper ends of their respective halves of the casing and outwardly extending therefrom, said flanges being hingedly connected to each other and to a collar to permit rocking movement of the lower ends of the casing halves outward from each other a restricted distance, the collar being slidably mounted on the shaft and in which said shaft will turn, another collar positioned on the shaft adjacent the auger, a pair of toggle joint acting arms oppositely disposed with respect to the shaft and rockably carried by the said collar, the other ends of said arms being rockably connected to their respective halves of the casing a spaced distance from the lower ends thereof to open and close the casing as the same is moved reciprocatingly, longitudinal of the shaft, and means to lock the casing when rocked to its closed position.

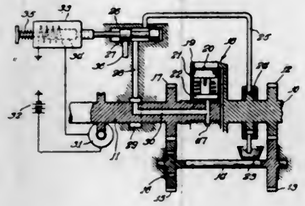
2,286,584
VENTILATOR FOR AIRPLANES AND THE LIKE
Burton B. Simcox, Knoxville, Tenn.
Application September 11, 1940, Serial No. 356,403
3 Claims. (Cl. 98—9)

1. A ventilator adapted to be tensionally and rotatably held in a circular hole in the enclosing wall of a vehicle comprising a dome-shaped member of flexible material and having a constriction forming an exterior peripheral groove near its base, the base flaring outwardly, one side of the base and dome portions being open for less than 180 degrees, the base being a segment of a circle occupying more than 180 degrees so that the base can be compressed at its open side to be inserted into the circular hole in the walls of a vehicle and whereby the bottom of the groove



will fit against the walls of the hole and the inherent resiliency of the member will hold the member in frictional and rotative engagement with the walls of the hole.

2,286,585
CLUTCH CONTROL
John M. Simpson, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application September 18, 1940, Serial No. 357,220
21 Claims. (Cl. 192—85)



1. A positive clutch for transmitting torque from a driving element to a driven element comprising a member having radial bores driven by one of said elements, radially movable pistons in said bores, bolts movable with said pistons, a windowed shell drivingly connected to the other element, said windows being axially aligned with said bolts and adapted to receive the bolts for connecting the elements together, a source of fluid under pressure, means for conducting the fluid under pressure to the pistons, a valve for controlling the fluid, means normally restraining radial movement of the bolts and means responsive to a predetermined speed of one of the elements for operating the valve to admit fluid behind the pistons to overcome the restraining means and engage the clutch.

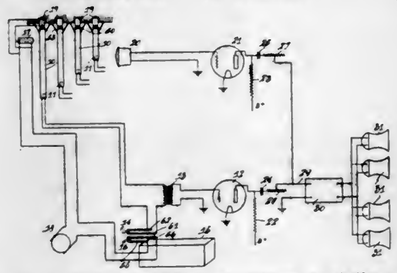
2,286,586
CROSS-WEDGE
Benjamin Starks, Monticello, Iowa, assignor to John J. Eggers, Monticello, Iowa
Application July 29, 1941, Serial No. 404,475
3 Claims. (Cl. 254—104)

1. An integrally formed cross-wedge comprising a maul-end-portion and two pairs of wedges which latter have entering edges meeting at a common center, the wedges of one pair having their entering edges alined and at right angles to the entering edges of the other pair, one pair of said wedges having wedging surfaces disposed at a minor angularity, the other pair of said wedges having wedging surfaces disposed at a major angularity of at least twice said minor angularity, the outer edges or axially remote surfaces of each pair of wedges being substantially parallel to one another and laterally co-extensive



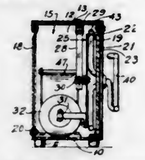
with the axially remote surfaces of said maul-end-portion.

2,286,587
CARILLON
Edward V. Sundt, Chicago, Ill.
Application July 15, 1940, Serial No. 345,659
14 Claims. (Cl. 84—405)



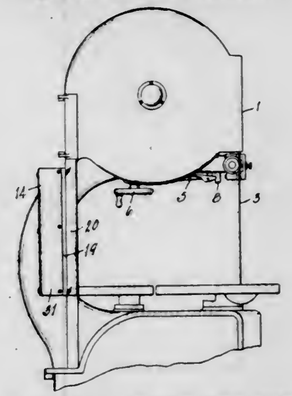
1. In a chime carillon, a chime, a striker for said chime, a solenoid for actuating said striker, a double touch key having means for closing the circuit of said solenoid when partially depressed, electrical pick-up means positioned on said chime to pick up vibrations corresponding to the fundamental tone of said chime, amplifier means, means on said key for closing the circuit between said magnetic pick-up and said amplifier means when said key is further depressed, additional pick-up means for picking up acoustic vibrations from said chime, and connections between said additional pick-up means and said amplifier means.

2,286,588
ILLUMINATED SIGN
Thomas Taaffe, Los Angeles, Calif., assignor of one-half to Hal R. Blair; Rosalie Taaffe executrix of said Thomas Taaffe, deceased
Application March 13, 1939, Serial No. 261,565
6 Claims. (Cl. 40—130)



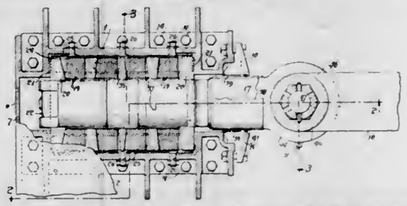
3. An illuminated sign, consisting of a casing, a refraction-plate mounted in a wall of said casing formed with a multiplicity of integral lens elements over one of its surfaces, a reflector-sheet suspended for vibratory motion in parallel relation to said plate within the casing and formed over its forward surface with a multiplicity of nodes having light-reflecting facets upon their sides, and means to illuminate said plate and said sheet.

2,286,589
BLADE GRABBER FOR BAND SAWS
Carl E. Tannewitz, Grand Rapids, Mich.
Application October 28, 1940, Serial No. 363,142
10 Claims. (Cl. 143—157)



9. In a structure of the class described, the combination with a driven band saw blade, and driving and tensioning members therefor, of coacting blade clutching jaws disposed in opposed relation on opposite sides of the normal path of travel of the blade and normally out of engagement therewith, and means operatively associated with the blade tensioning and driving means and operatively associated with and actuating at least one of said jaws, said means being actuated by said tensioning and driving means on the breaking of the band saw blade, whereby such jaw is automatically actuated to clutch the blade between the jaws.

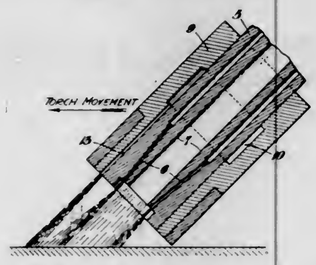
2,286,590
DRAFT GEAR FOR RAILWAY CARS
Herbert E. Van Dorn, Chicago, Ill., assignor to The Dornvan Corporation, a corporation of Illinois
Application September 16, 1940, Serial No. 356,995
12 Claims. (Cl. 213—7)



1. A dirt-proof housing adapted to be fixed to a car underframe, a stem extending into the housing, a sealing means in the joint between the stem and the housing to exclude dirt while permitting the stem to move lengthwise, a cushion in said housing operatively connected to the

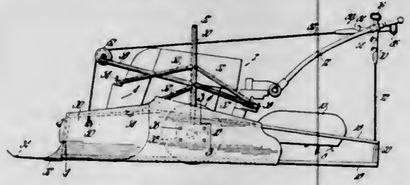
stem, a drawbar, and a universal joint connecting the drawbar and the stem close to the housing.

2,286,591
METHOD OF SCARFING
William Van Triest, Pittsburgh, Pa.
Application March 30, 1940, Serial No. 326,980
2 Claims. (Cl. 148—9)



1. The method of scarfing articles of the character described which includes impinging an oxidizing flame upon and at an angle to the surface of the article, effecting a relative movement of the flame and article, completely enveloping at least the upper portion of the flame by a separate overlying layer of air flowing substantially in the direction of the flame, and impinging the air upon the said surface immediately in advance of and along the sides of the region of contact of said flame and surface.

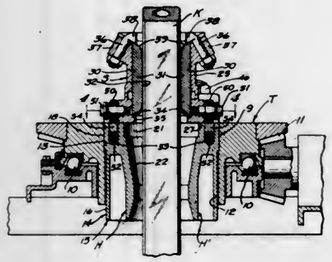
2,286,592
TILLING APPARATUS
John J. Wallace, Springfield, Mass.
Application August 19, 1941, Serial No. 407,466
4 Claims. (Cl. 97—192)



1. A guard construction for use with a soil working machine supported by and tiltable up and down relative to side traction wheels comprising in combination, a supporting structure for securement to said machine, guard members arranged in converging relation for disposition at one end of said machine, members slidable up and down in said supporting structure, and pivotal connections between said slidable members and guard members, all adapted and arranged whereby said guard members are movable up and down and tiltable relative to said supporting structure.

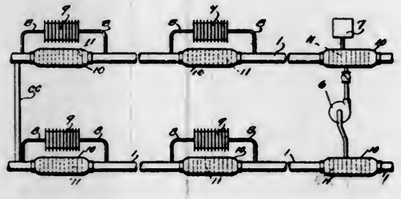
2,286,593
KELLY DRIVING MEANS
Walter A. Abegg, Los Angeles, Calif., assignor to Abegg & Reinhold Co., Ltd., Los Angeles, Calif., a corporation of California
Application October 3, 1939, Serial No. 297,709
8 Claims. (Cl. 255—23)

1. In combination with a rotary table having a central bore, a master bushing in said bore and having rotational drive-connection therewith, a detachable, tubular, rotary drive sleeve held against downward movement with respect to the bushing and with its bore axially alined with the bushing bore, means on the sleeve adapted to drivingly engage work extending vertically through the sleeve bore, rotary drive elements in-



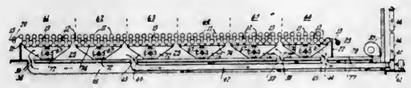
terconnecting the bushing and sleeve, and releasable means interconnecting the bushing and sleeve against vertical separation, said means embodying a latch pivotally mounted on the sleeve and a keeper on the bushing, said latch being pivotally movable to and from engagement with the keeper; and a detent acting between the sleeve and latch to releasably hold the latch in engaged position.

2,286,594
ELECTRIC CABLE SYSTEM
Charles E. Bennett, Hawthorne, N. J., assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J., a corporation of New Jersey
Application April 16, 1934, Serial No. 720,734
3 Claims. (Cl. 174—15)



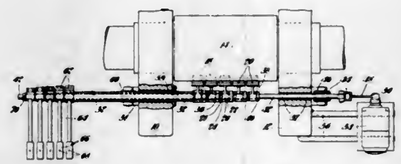
1. A multi-conductor high tension electric cable system comprising in combination a plurality of unsheathed cable conductors of the solid stranded type, each conductor being independently insulated with permeable impregnated insulating material, a pipe line loosely enclosing said conductors, oil filling the space in the pipe line unoccupied by the said conductors and their insulation, said conductors and their insulation being submerged in said oil and in direct contact therewith, means for maintaining said oil under high pressure, a pressure regulator, said pressure regulator and the relatively large internal diameter of the pipe line permitting the oil in the pipe line to move bodily longitudinally thereof on volumetric changes in the oil due to temperature variations, the total cross section of the oil at any instant moving in one direction, and cooling means through which the oil in its described movement is caused to flow.

2,286,595
APPARATUS FOR DRYING WEBS OF PAPER REGENERATED FROM CELLULOSE DERIVATIVES
Ernest Bleibler, Ghent, Belgium
Application March 10, 1938, Serial No. 195,049
In Belgium March 11, 1937
7 Claims. (Cl. 34—60)



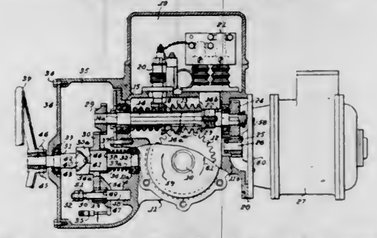
2. An apparatus for drying webs of paper regenerated from an aqueous solution of cellulose derivatives, including a base structure, side frames on said base structure, a roller train supported by said side frames, said roller train for supporting and feeding the web through and along said apparatus; a ventilation chamber arranged exclusively below said web and within the space enclosed by said roller train, said side frames and said base structure; a ventilating air generating device for generating a current of ventilating air within and longitudinally of said ventilating chamber, and a ventilating air distributing device for circulating said current of ventilating air within and transversely of said ventilating chamber and for directing ventilating air to sweep over the lower surface of said web; said ventilating air generating device including means for producing a current of fresh ventilating air, means for discharging the moist ventilating air from said chamber, said ventilating chamber having at least one inlet and one outlet spaced a substantial distance apart from each other, ducts connecting both said means, respectively, to said inlet and said outlet of said ventilating chamber; said ventilating air distributing device including at least one fan and one nozzle both within said chamber.

2,286,596
ROLL FINISHER
Daniel W. Brayshaw, Vandergrift, Pa.
Application August 15, 1939, Serial No. 290,280
1 Claim. (Cl. 51—252)



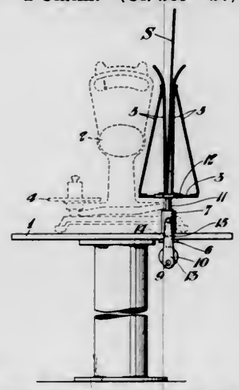
Mechanism of the character described comprising a plurality of abrading elements, a series of at least two telescopically nested sleeves each carrying a respective holder for one of said elements, a respective arm and weight tending to rock each sleeve on its axis, a supporting member common to said series of sleeves, means slidably supporting the assemblage, means for reciprocating said member, each of said holders having a hub portion of fork-like form to permit its removal from the sleeve by a movement perpendicular to the axis thereof, and wherein the supporting sleeve has collars affixed thereto for restraining the holder against movement longitudinally thereof, said holder hub and one of said collars having a slot and lug connection so as to transmit turning movement of the sleeve to the holder.

2,286,597
VALVE CONTROL
Jerome J. Bruckel, Philadelphia, Pa., and William F. Plume, Audubon, N. J., assignors to Philadelphia Gear Works, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application August 4, 1941, Serial No. 405,412
4 Claims. (Cl. 74—407)



1. In a valve control having motor-operated valve-actuating mechanism including a valve driving shaft, a gear on said shaft, a hand-wheel, a gear driven by said hand-wheel and normally out of mesh with said gear on the driving shaft, means operated by the rotation of the hand-wheel for moving one of said gears axially into mesh with the other gear so that said driving shaft may be rotated by said hand-wheel, rotation resisting means for imposing a drag upon the gear being axially moved, which means comprise an idler pinion meshing with the axially movable gear and adjustable spring means engaging and pressing upon said idler pinion to impose thereon a drag to be transmitted to the axially movable gear, and automatic means for moving said movable gear axially out of mesh with said other gear when manually applied torque is removed from the hand-wheel.

2,286,598
WEIGHING APPARATUS
Julius P. Chamberlain, Warner, Ohio
Application March 9, 1939, Serial No. 260,825
1 Claim. (Cl. 265—27)



Metal sheet weighing apparatus comprising a weighing platform having spaced upstanding arms between which the sheets may be placed on edge with their edges overhanging said platform, vertically movable supports on either side of said platform for engaging sheet edges overhanging said platform, vertically movable vertical rods with their upper ends carrying said supports, rotary cams on which the lower ends of said rods rest and a handcrank for turning said cams, the latter being contoured and the length

of said handcrank being such that manual movement of said handcrank with rapidity cannot result in a sheet striking said platform with damaging force.

2,286,599
MORTAR AND PESTLE
Edward L. Chott, Chicago, Ill.
Application April 22, 1940, Serial No. 330,941
5 Claims. (Cl. 83—10)



1. A mortar and pestle for use in an amalgamating machine of the class described, comprising a cylindrical capsule having internal concave ends, and a cylindrical pestle having convex ends of approximately the same radii as said concave ends of the capsule, the relative diameters and lengths of the capsule and pestle being such that when the diametrically opposite points on the opposite ends of the cylindrical portion of the pestle are in contact with diametrically opposite portions of the side walls of the capsule, the surfaces of the ends of the pestle will be in substantial parallelism with the concave surfaces of the ends of the capsule.

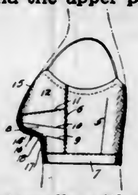
2,286,600
DENTAL AMALGAMATOR
Edward L. Chott, Chicago, Ill.
Application August 19, 1939, Serial No. 291,037
10 Claims. (Cl. 83—10)



1. The combination with an amalgamator having a driven shaft and mortar supporting means, a cylindrical capsule mortar supported thereby and having oppositely concaved internal ends and a connection between said shaft and said supporting means for oscillating the mortar on its transverse axis which axis passes substantially radially through said shaft and simultaneously reciprocating the mortar upon its longitudinal axis, and a pestle in the mortar comprising a single strand with a single intermediate connecting portion and arcuately bent ends turned inwardly in a longitudinal direction.

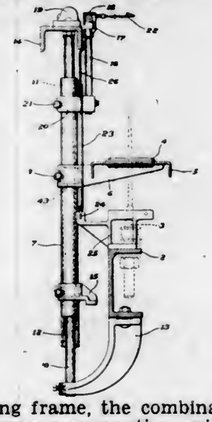
2,286,601
BRASSIERE
Agnes A. Clark, Englewood, N. J.
Application August 9, 1940, Serial No. 351,941
3 Claims. (Cl. 2—42)

1. In a garment of the character indicated, front panels to cover the breasts, the upper part of each front panel being made to include a substantial breast pocket, the lower part of each front panel being shirred at the zone just beneath each breast pocket, the lower part of the breast pocket and the upper part of said shirred



zone merging integrally without a seam to provide a fullness in the lower part of the breast pocket, said shirred zone further providing a stiffening area directly beneath the breast pocket extending substantially to the waist line of the garment.

2,286,602
SPINNING FRAME AND SIMILAR MACHINES
Louis M. Cotchett, Hingham, Mass., assignor to Saco-Lowell Shops, Boston, Mass., a corporation of Maine
Application October 10, 1941, Serial No. 414,501
8 Claims. (Cl. 57—137)

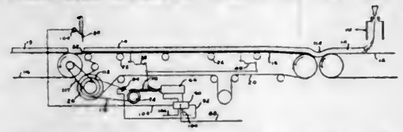


1. In a spinning frame, the combination with a ring rail, of means supporting said rail for vertical traversing movement, comprising an upright stationary rod, a vertically elongated guiding member secured rigidly to said rail and extending at right angles thereto, said member having parts substantially encircling said rod and guided thereon at areas spaced widely apart vertically of the rod where they provide guiding stability for said member and said rail, and means supporting said rod at fixed points both above and below the range of traversing movement of said guiding areas.

2,286,603
SPACING MECHANISM FOR CONVEYERS
Frederick R. Coumbe, Newark, Ohio, and John W. Romig, Rumford, R. I., assignors, by mesne assignments, to Owens-Corning Fiberglas Corporation, Toledo, Ohio, a corporation of Delaware
Original application October 29, 1938, Serial No. 237,711. Divided and this application June 26, 1940, Serial No. 342,582
12 Claims. (Cl. 198—34)

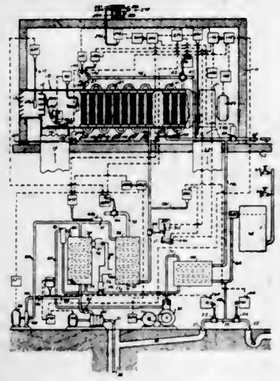
1. In a conveyer mechanism, a continuously

driven conveyer belt, means associated with said belt adapted to lift the material supported thereon from said belt and restore it thereto, and



adjustable means for varying the length of the period of time the material is out of contact with said belt.

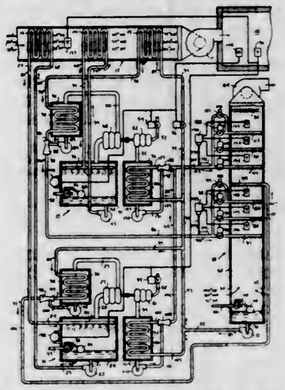
2,286,604
AIR CONDITIONING SYSTEM
Robert B. P. Crawford, Miami, Fla., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application June 25, 1938, Serial No. 215,805
30 Claims. (Cl. 257—3)



20. In an air conditioning system, a conditioning chamber, means for passing air through said conditioning chamber, a heat exchanger in said conditioning chamber for cooling and dehumidifying the air, a supply of fluid for the heat exchanger means for reducing the temperature of said fluid before it passes to the heat exchanger including a refrigeration system having a condenser, a reheater for reheating the air passing from the heat exchanger, means for supplying the fluid leaving said heat exchanger to said reheater, and means for then passing the fluid leaving the reheater through the condenser, thereby utilizing the cooling effect of the air being reheated for partially cooling said condenser.

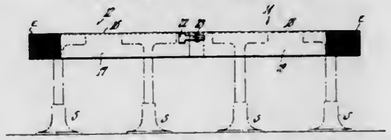
2,286,605
AIR CONDITIONING SYSTEM
Robert B. P. Crawford, Miami, Fla.
Application March 3, 1939, Serial No. 259,561
14 Claims. (Cl. 62—6)

1. In an air conditioning system for conditioning the air of an enclosure, the combination of, cooling means and reheating means for conditioning the air, a refrigerating apparatus for supplying a cooling fluid to the cooling means for cooling the air and including a condenser for dissipating the heat absorbed, a cooling tower, means for supplying a reheating fluid from the cooling tower to the reheating means to dissipate heat to the air whereby the air is reheated and the reheating fluid is cooled, means for supplying the cooled reheating fluid from the reheating means to the condenser of the refrigerating apparatus to increase the heat dissipating effect of the condenser, and means for



returning the reheating fluid from the condenser to the cooling tower to be cooled thereby.

2,286,606
SEAT COVERING DEVICE
Claude P. Cuddihy and Harold A. Kennedy, Springfield, Mass.
Application November 25, 1940, Serial No. 367,058
2 Claims. (Cl. 155—182)

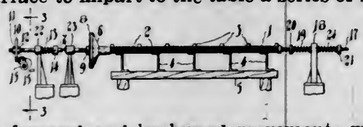


2. As a new article of manufacture, a covering device for a row of spaced seats which have upper horizontal supporting portions and vertical side portions extending downwardly therefrom comprising in combination, a pair of sleeve-like members each of which includes an upper elongated part for extending along and resting on the said horizontal portions of the seats and side and end parts depending downwardly from the marginal edges of said upper parts for lying adjacent the opposite side portions of the innermost seats and adjacent the outer end portions of the endmost seats, respectively, of the row, and adjustable and releasable securing means associated with said sleeve-like members arranged and adapted to draw the same towards one another into telescopic relation and also to cause the end parts of the sleeve-like members to embrace the outer end portions of the endmost seats and hold the covering device on said row of seats, the said end parts of the members including yieldable elastic-like sections co-operating with said securing means to cause the end parts thereof to yieldingly embrace the outer end portions of the endmost seats of the row thereof.

2,286,607
APPARATUS AND PROCESS FOR SEPARATING PARTICLES
Frederick Charles Dyer and Harold Langdon McClelland, Toronto, Ontario, Canada
Application March 6, 1939, Serial No. 260,210
In Canada March 7, 1938
11 Claims. (Cl. 209—112)

1. Means for separating particles having different characteristics, comprising a table mounted

for reciprocation, and having a substantially flat surface, substantially horizontal at least in its direction of reciprocation and covered with fine, closely set, short, resilient fibres normally substantially at right angles to the surface to which surface the particles are fed; and means for rapidly reciprocating said table longitudinally in a direction substantially parallel to the plane of its surface to impart to the table a series of sharp



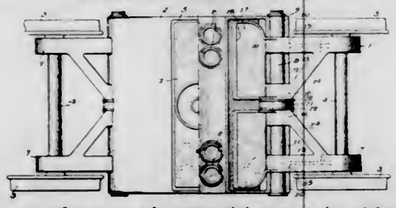
quick forward and backward movements with a sharp change of direction at the beginning of each movement and an interval of comparative rest between each double movement so that certain of said particles remain in the position at which they are fed to the surface or move in one direction and certain other particles having different characteristics move in the opposite or a different direction over the said surface.

2,286,608

WHEEL TRUCK

Rupen Eksergian, Lansdowne, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application June 23, 1939, Serial No. 280,771
2 Claims. (Cl. 105—182)



1. A railway truck comprising a pair of longitudinally spaced wheel and axle assemblies and a frame disposed between them, one pair of transversely spaced arms connected to each axle and being pivoted about a transversely extending axis to the truck frame, spring means associated with each arm and interposed between the frame and the arm, torsion means connecting the arms of each pair of arms and arranged concentric with the respective pivotal connection so as to stabilize the truck frame while permitting limited independent vertical movement of the opposite ends of each axle with respect to said frame, said torsion means including a rubber disc concentric with the pivots of the pairs of arms at the opposite ends of the truck and interposed between them with its lateral faces anchored to the arms, whereby the rubber is subjected to shearing stress upon relative rotation of the associated arms.

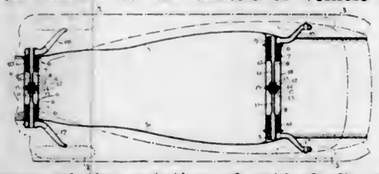
2,286,609

WHEEL SUSPENSION FOR VEHICLES

Joseph Ledwinka, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application May 17, 1940, Serial No. 335,813
7 Claims. (Cl. 267—21)

1. A resilient wheel suspension for vehicles comprising a pair of substantially coaxial shafts rotatably supported in a chassis or vehicle body, means connecting said shafts to one another, comprising a torsion element of resilient non-metallic material having two facings secured respectively to two opposite surfaces thereof, means securing the shafts to the respective facings, said resilient non-metallic material being supported by said shaft so that it can substantially freely rotate relatively to said chassis or vehicle body together with said shafts if the latter move in unison relative to the chassis or vehicle body



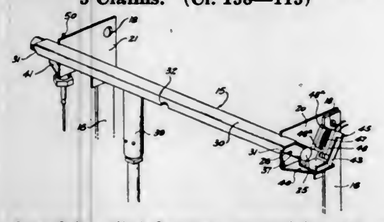
whereas relative rotation of said shafts about their common axis will stress the said element in torsional shear, and an additional torsionally-resilient member of non-metallic material such as rubber between each shaft and said chassis or body, said last-named member being adapted for resiliently supporting said chassis or body on the road wheels.

2,286,610

SAFETY PILOT BURNER

Theodore B. Focke, Cleveland Heights, and Allen K. Phelps, East Cleveland, Ohio, assignors to Perfection Stove Company, Cleveland, Ohio, a corporation of Ohio

Application October 20, 1939, Serial No. 300,438
5 Claims. (Cl. 158—115)



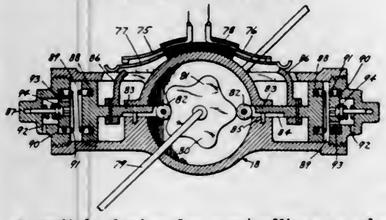
1. A safety pilot burner comprising an elongated hollow body having jet apertures spaced therealong and rows of perforations between apertures, a stationary cover extending along the body and permanently overhanging said perforations and cut away adjacent each aperture to prevent interference with the jet projected therefrom, and means for admitting fluid fuel to the body.

2,286,611

CIRCUIT CONTROL MEANS

Clyde C. Farmer, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Original application November 6, 1937, Serial No. 173,169, now Patent No. 2,191,822, dated February 27, 1940. Divided and this application July 29, 1939, Serial No. 287,233
3 Claims. (Cl. 200—30)



1. A switch device for controlling an electric

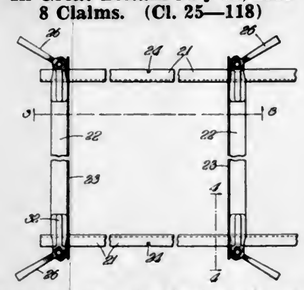
circuit, comprising in combination, rotatable means, a set of contacts adapted to maintain the circuit closed when said rotatable means is rotating above a predetermined speed and be opened when said rotatable means is brought to a stop, and means set in operation incident to the bringing of said rotatable means to a stop for delaying for an interval of time regardless of the position in which the rotatable means is stopped, the opening of said contacts.

2,286,612

MOLD FOR CONCRETE PATHWAYS

Thomas Wass Flory, Dunstable, England

Application December 31, 1940, Serial No. 372,623
In Great Britain July 25, 1939
8 Claims. (Cl. 25—118)



1. Means for use in the laying of concrete and similar pathways and the like in situ comprising primary and secondary spacing members, partition strips separate from said primary and secondary spacing members, and channel section side members, said primary and secondary spacing members being adapted to support and prevent distortion of said partition strips, and said channel section side members, when laid on their sides on the ground with their webs vertical and facing towards one another and in conjunction with said partition strips constituting the sides of a mould in which the concrete is to be cast, each of said primary and secondary spacing members having a shoulder and being disposed on the upper surfaces of said channel-section side members and being provided at one end with a double cam device adapted to act on the edge and on the inner face of one of the flanges of a channel-section side member and to draw a shoulder on the appropriate spacing member into close contact with the web of said channel-section side member and to bring said appropriate spacing member to a predetermined level and position with respect to the channel-section side members with which it is engaged and to secure the locking together of the said channel-section side members and the backing up of the separate partition strips to form a rigid frame-like mould entirely free from distortion.

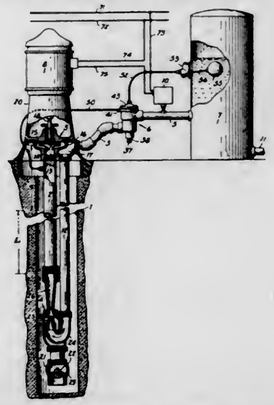
2,286,613

LIQUID SUPPLY SYSTEM

Chauncey Park Fuller, Berkeley, Calif., assignor, by mesne assignments, to Pomona Pump Company, Pomona, Calif., a corporation of Delaware

Application June 8, 1939, Serial No. 278,065
10 Claims. (Cl. 103—6)

1. In a water pressure system having a tank, a pump, an intake passage and a discharge line for said pump, an injector in the intake passage of said pump, a line communicating from the discharge line of said pump to the jet of said injector, means for operating said pump when the pressure in said tank falls below a predetermined value, and valve means disposed in said discharge line between the line to the injector and the tank actuatable by vacuum in the intake passage in proximity to the pump to automatically determine the proportional amounts of water flowing through the discharge line and the line to the injector.

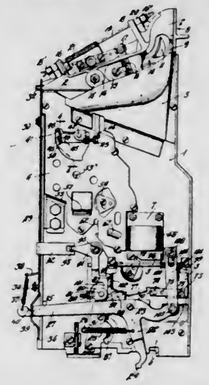


2,286,614

COIN SELECTOR

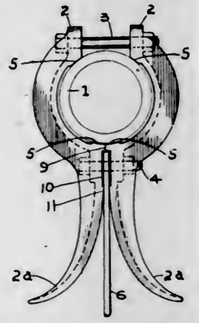
Christian Gabrielsen, Belleville, N. J., assignor to Rowe Manufacturing Co., Inc., New York, N. Y., a corporation of New York

Application July 25, 1939, Serial No. 286,302
4 Claims. (Cl. 194—97)



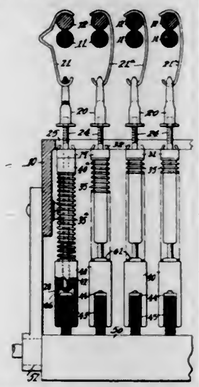
1. In a coin selector, and in combination, means for directing good coins to a predetermined location and means for preventing passage of bad coins to said location including means for stopping bad coins and holding them in said coin selector, means for moving said stopping and holding means to strip bad coins from said selector, said moving means comprising an actuating member movable in a predetermined direction to effect such motion, a stop for preventing movement of said member in said direction, elastic means for pressing said member against said stop and moving said member to effect the stripping movement of said stopping and holding means when said movement is not prevented by said stop, and means for disengaging said member from said stop.

2,286,615
FLEXIBLE SUSPENSION
Thomas Griswold, Jr., Midland, Mich.
Application September 21, 1940, Serial No. 357,684
4 Claims. (Cl. 248—54)



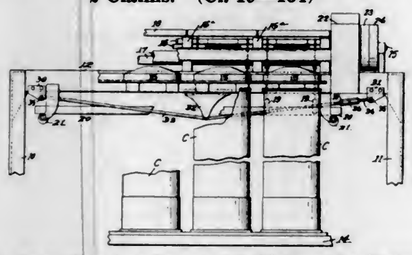
1. In a suspension of the character described, a hanger for a flexible suspension member comprising two clamp elements clampable upon a support therefor, a curved skirt extension of each said clamp element depending below the clamped assembly, the two skirts being in opposed relation to each other, and means to secure one end of a flexible suspension member in said assembly between said opposed skirts in approximate tangential relation thereto.

2,286,616
ROLL TENSION DEVICE
Fred K. Hendrickson, Worcester, Mass., assignor to Whitin Machine Works, Whitinsville, Mass., a corporation of Massachusetts
Application April 21, 1941, Serial No. 389,577
3 Claims. (Cl. 19—135)



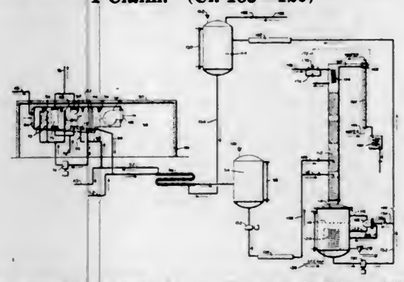
2. In a drawing frame having top rolls, in combination, a spring tension unit for each top roll comprising a sleeve member abutting a fixed surface below the top rolls and having an axial opening, a rod slidable in said opening and connected at its upper end to one of said top rolls, means to limit downward movement of said rod in said opening, a coil spring mounted on said sleeve, a block slidable on said rod and engaged by the lower end of said spring, means to limit downward movement of said block on said rod, the lower end of said block being slotted, a lifting bar vertically movable in said slotted end, and means to simultaneously engage a plurality of said bars and to lift said bars to raise said rods and to thereby simultaneously relieve the spring tension on a plurality of associated top rails.

2,286,617
DRAWING FRAME
Fred K. Hendrickson, Worcester, Mass., assignor to Whitin Machine Works, Whitinsville, Mass., a corporation of Massachusetts
Application June 18, 1941, Serial No. 398,636
2 Claims. (Cl. 19—134)



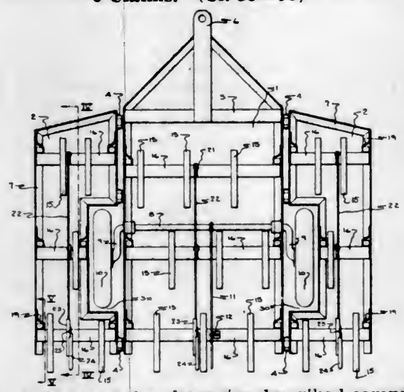
1. In a drawing frame, a table, means to support the opposite ends of said table, a brace member extending downward from said table at an intermediate point in its length, and tension means connected to the two ends of said table and effective to exert an upward force on said brace member to horizontally align said table.

2,286,618
REFRIGERATING PROCESS
Nicolai H. Hiller, Jr., Bronxville, N. Y., assignor, by mesne assignments, to The Texas Company, a corporation of Delaware
Application November 3, 1939, Serial No. 302,660
1 Claim. (Cl. 183—120)



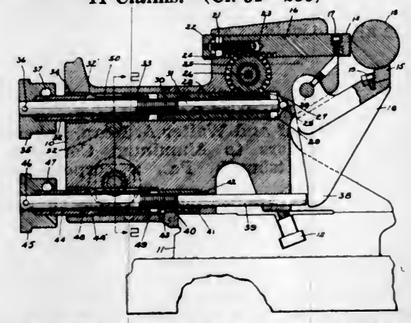
A cyclic process for cooling and dehumidifying a gas adapted to produce a cold dehumidified gas for direct contact frost-free refrigeration at temperatures at least as low as −30° F., which comprises contacting said gas with a spray of aqueous ethylene glycol solution, and with cooling surfaces maintained at a temperature below −30° F. and covered with a film of said aqueous ethylene glycol solution resulting from the action of said spray, causing the aqueous ethylene glycol solution flowing from said cooling surfaces to be recycled to said spray, maintaining the concentration of said aqueous ethylene glycol solution at said spray within the range of 46% to 86% by volume, and sufficiently above 46% and below 86% concentration to maintain said solution as a sprayable liquid free from a solid phase, by subjecting to rectification at least a portion of the recycle aqueous ethylene glycol solution flowing from said cooling surfaces, while controlling the temperature of the vapor removed by said rectifying operation to cause substantially complete reflux of said ethylene glycol, and recycling to said spray the resulting rectification residue of reduced water content.

2,286,619
WHEEL DRAG
Charles J. Hokanson, Jackson, Mich., assignor of one-half to Carl W. Hokanson, Grass Lake, Mich.
Application July 12, 1940, Serial No. 345,063
6 Claims. (Cl. 55—93)



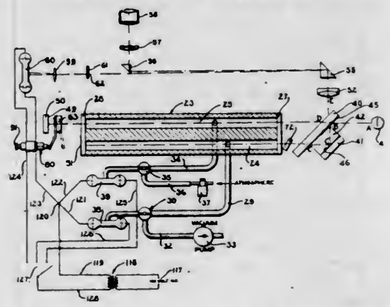
2. A device of the character described comprising a frame, supporting ground wheels for said frame, means mounting said wheels on said frame, means to vary the height above the ground said wheels support said frame, a supplementary frame disposed at each side of said first named frame, said supplementary frames having laterally offset recesses therein for receiving said wheels, hinges having upwardly extending arms connecting said supplementary frames to said first named frame, said upwardly extending arms causing the pivotal points of said hinges to be elevated substantially above said frames, and drag teeth supported on said frames, said supplementary frames having drag teeth thereon behind said wheels.

2,286,620
STEADY REST ADJUSTING MEANS
Milburn A. Hollengreen, Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa.
Application May 18, 1939, Serial No. 274,439
11 Claims. (Cl. 51—238)



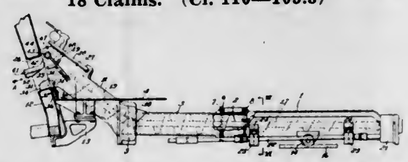
1. A steady rest for a grinding machine including a frame, a work engaging member movably mounted in said frame, a screw for adjusting said work engaging member toward a work piece, power means for yieldingly rotating said screw, and means including a motor and devices actuated thereby for supplying power to said screw rotating means in the form of impulses.

2,286,621
PRESSURE MEASURING APPARATUS
Roy T. Hurley, Dobbs Ferry, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application December 23, 1938, Serial No. 247,379
15 Claims. (Cl. 88—14)



1. In an instrument having interferometric means for measuring the difference in pressure between equal geometric lengths of two mediums, a pair of chambers for containing said mediums, to provide the equal geometric lengths thereof for measurement by said means, said chambers being formed in a bar of fixed length having longitudinal parallel openings therethrough and having transparent plates wrung to the parallel ends thereof.

2,286,622
LOCOMOTIVE STOKER
Samuel G. Jones, Princess Anne County, Va., assignor to Berkley Machine Works & Foundry Company, Incorporated, Berkley, Norfolk, Va., a corporation of Virginia
Application July 16, 1938, Serial No. 219,570
18 Claims. (Cl. 110—105.5)



15. A stoker comprising a substantially straight riser conduit adapted to deliver coal to a locomotive firebox through an opening in its backwall, the upper end of the conduit communicating with said backwall opening, a screw conveyor in said conduit, a jet member disposed on the floor of the upper end of said conduit and forming a continuation of said floor, said jet member being adapted to be connected to a source of fluid under pressure and being provided with a plurality of inclined orifices for directing said fluid forwardly and upwardly against the coal flowing over the jet member, and a normally stationary deflector member disposed at the upper end of said conduit above said jet member and in the path of coal thrown upwardly therefrom for distributing the coal throughout the firebox, said deflector member

serving as the sole distributor plate for the stoker.

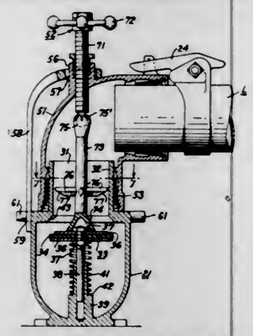
16. A stoker comprising a substantially straight riser conduit adapted to deliver coal to a locomotive firebox through an opening in its backwall, the upper end of the conduit communicating with said backwall opening, a screw conveyor in said conduit, a jet member disposed on the floor of the upper end of said conduit and forming a continuation of said floor, said jet member being adapted to be connected to a source of fluid under pressure and having a front wall provided with a plurality of upwardly inclined orifices for directing said fluid forwardly and upwardly against the coal flowing over the jet member, a plate-like hood projecting forward from the top of said front wall, and a vertically adjustable deflector member projecting forward from the upper end of said conduit above said jet member and in the path of coal thrown upwardly therefrom for distributing the coal throughout the firebox.

2,286,623

FLUID CONTROL MEANS FOR PORTABLE IRRIGATING SYSTEMS

Gillis C. Kellaher, Portland, Oreg., and Horatio D. Smith, Seattle, Wash., assignors to R. M. Wade & Co., Portland, Oreg., a corporation of Oregon

Application Feb. 9, 1940, Serial No. 318,082
11 Claims. (Cl. 137—78)



1. A T-coupler for a portable knock-down irrigating system having opposite open ends adapted to be detachably connected to main line piping and an intermediate cylindrical open portion, a disk valve for controlling flow of fluid through said intermediate cylindrical open portion and having a central protuberance thereon, and resilient means for urging said valve toward closed position; and an extension conduit member comprising an elbow adapted to be detachably and telescopically connected to said intermediate cylindrical open portion by relative endwise sliding movement and having valve actuating mechanism to enable facile operation of the valve without the necessity of the coupler and the conduit member being precisely alined, said valve actuating mechanism comprising a member threaded in said elbow, and a stem member flexibly connected to said threaded member at one end and having in its opposite end a recess in which said protuberance is adapted to engage.

5. A conduit member adapted to be flexibly and detachably connected to a valved coupler for a portable knock-down irrigating system, having manually operable valve actuating mechanism; said actuating mechanism comprising a manually turnable member threaded in said conduit member, a stem member, and a flexible connection between said stem member and said threaded member.

2,286,624

ALUMINUM BASE ALLOY

Louis W. Kempf and Walter A. Dean, Lakewood, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application December 30, 1941, Serial No. 424,891
2 Claims. (Cl. 75—147)

1. An aluminum base alloy consisting of from about 20 to 40 per cent beryllium, 1 to 8 per cent magnesium, and the balance substantially aluminum, said alloy being characterized by a high tensile strength at elevated temperatures combined with a relatively high thermal conductivity.

2,286,625

ALUMINUM BASE ALLOY

Louis W. Kempf and Walter A. Dean, Lakewood, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application December 30, 1941, Serial No. 424,892
2 Claims. (Cl. 75—142)

1. An aluminum base alloy consisting of from about 20 to 40 per cent beryllium, 0.1 to 3.0 per cent magnesium, 0.5 to 5.0 per cent copper, and the balance substantially aluminum, said alloy being characterized by high tensile and fatigue strengths at elevated temperatures combined with a relatively high thermal conductivity.

2,286,626

ALUMINUM BASE ALLOY

Louis W. Kempf and Walter A. Dean, Lakewood, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application December 30, 1941, Serial No. 424,893
2 Claims. (Cl. 75—146)

1. An aluminum base alloy consisting of from about 20 to 40 per cent beryllium, 0.25 to 3 per cent magnesium, 2 to 15 per cent zinc, and the balance substantially aluminum, said alloy being characterized by a high tensile strength at elevated temperatures combined with a relatively high thermal conductivity, and a greater susceptibility to improvement in strength by solution heat treatment and age hardening than the same alloy devoid of zinc.

2,286,627

ALUMINUM BASE ALLOY

Louis W. Kempf and Walter A. Dean, Lakewood, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application December 30, 1941, Serial No. 424,894
2 Claims. (Cl. 75—147)

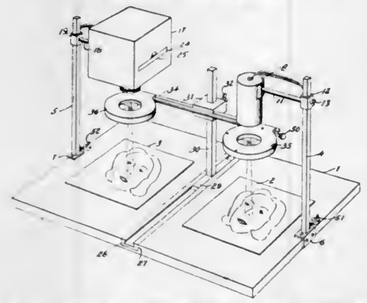
1. An aluminum base alloy consisting of from about 20 to 40 per cent beryllium, 0.25 to 3 per cent magnesium, 0.5 to 4 per cent silicon, and the balance substantially aluminum, said alloy being characterized by high tensile and fatigue strengths at elevated temperatures combined with a relatively high thermal conductivity.

2,286,628

PHOTOGRAPHIC DEVICE

Frank W. Kidder, Los Angeles, Calif.

Application January 29, 1940, Serial No. 316,094
12 Claims. (Cl. 88—24)



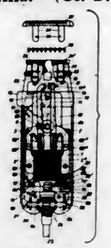
1. In a device of the character disclosed, a work board upon which may be positioned a finished positive which is to be corrected and an undeveloped positive; sources of light positioned over the finished positive and the undeveloped positive, iris members included between each source of light, and said positives, and means for simultaneously producing like adjustment of both iris members as to size and position to control the spread of each light cone.

2,286,629

MOTOR

Victor Kobler and Werner Kobler, Zurich, Switzerland

Application July 17, 1939, Serial No. 284,956
In Switzerland July 23, 1938
2 Claims. (Cl. 172—36)



1. In a dry shaver having a handle holding a cutter head, operated by means of an electric driving motor built in the handle, said electric motor comprising a plurality of circuits of different electrical resistance for the electric current to flow through, and automatic means including a slide for effecting the change-over of current to the proper circuit in adaptation to the voltage of the local system, said slide being connected with means for starting and stopping the motor which positively returns the slide into its initial position when the motor is stopped.

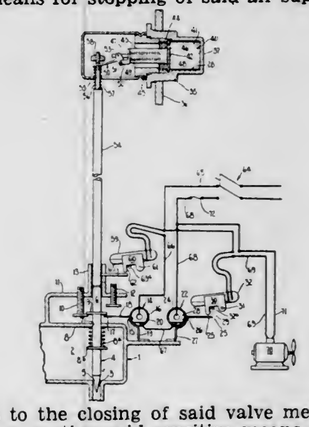
2,286,630

HEATING APPARATUS

Walter S. Landon and Philip S. Russel, Detroit, Mich., assignors to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan

Application February 23, 1940, Serial No. 320,332
14 Claims. (Cl. 236—1)

2. In an oil burner control, a fuel supplying valve means, an air supplying means, electrical means operable to move said valve means toward open position and to start said air supplying means, means sensitive to the medium heated by said fuel and operable upon a predetermined temperature directly to move said valve means toward closed position and to deenergize said electrical means for stopping of said air supply subsequent to the closing of said valve means, and means connecting said sensitive means and said valve means and having a lost motion portion, said lost motion portion acting to allow said valve means to be controlled by said electrical means below said predetermined temperature independently of said sensitive means.

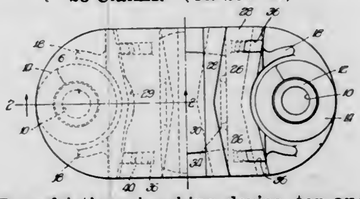


2,286,631

SNUBBER

Leo A. Lehrman, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey

Application August 1, 1939, Serial No. 287,792
28 Claims. (Cl. 267—9)



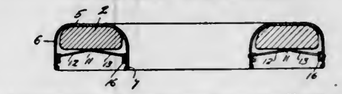
1. In a friction absorbing device, top and bottom followers each having a plurality of pedestals with inwardly directed friction surfaces, a pair of coil springs supported between said followers outwardly of said pedestals, friction shoes having engagement with said friction surfaces, a resilient pad supported in compression between said friction shoes and having tapering faces in engagement therewith, and interlocking means on said shoes engaging means on pedestals associated with respective followers to retain said parts in assembled relationship.

2,286,632

DETACHABLE CLOSET SEAT SHELL

George D. Manville, Los Angeles, Calif.

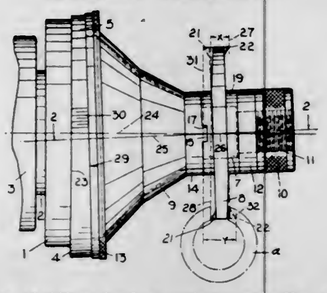
Application November 9, 1940, Serial No. 365,063
4 Claims. (Cl. 4—242)



1. A toilet bowl seat cover or shell of stiff ma-

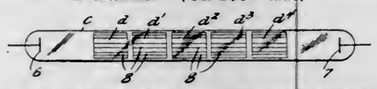
terial and of channel section to telescope on the inner and outer edges of the given seat and provided with resilient truss-like means to grip adjacent seat portions and normally press the shell in applied position on the seat.

2,286,633
ADJUSTABLE SLOTTING TOOL
John J. McCabe, Worcester, Mass., assignor to The Heald Machine Company, Worcester, Mass., a corporation of Massachusetts
Application June 21, 1939, Serial No. 280,361
14 Claims. (Cl. 90—11)



1. In a slotting tool, a rotary spindle, a shaft carried by said spindle and extending at a slight angle to said spindle, a cutter mounted on said shaft and having oppositely projecting cutting elements in angularly spaced relation, means for normally securing the rotation of said cutter with said shaft and said spindle, said cutter being angularly adjustable on said shaft, with the intersection of the spindle axis and shaft axis located substantially centrally of the cutter.

2,286,634
LUMINOUS ELECTRICAL DISCHARGE DEVICE
John H. McCauley, Hillside, N. J.
Application May 18, 1940, Serial No. 336,035
4 Claims. (Cl. 176—122)



1. An animated electrical discharge device comprising a closed glass envelope containing a gaseous electrically conductive medium at sub-atmospheric pressure, spaced electrodes, a filler of insulating material within that part of the envelope which lies between said electrodes, said filler affording a plurality of passageways for the electrical discharge, and fluorescent material of different kinds on different parts of the filler adapted to produce different color effects when the electrical discharge takes place.

2,286,635
SAFETY CATCH
Eugene Morehouse, Providence, R. I., assignor to B. A. Ballou & Co., Inc., a corporation of Rhode Island
Application May 13, 1940, Serial No. 334,684
2 Claims. (Cl. 24—157)



1. One member of a safety catch for assembly with another companion member, comprising a pair of ears each having a bearing portion for rotatably supporting the same in the companion member and provided with an axial opening through said bearing portion, said ears being both provided with a slot extending through each bearing to said opening, and a handle joining said ears and located diametrically opposite said slots, each ear being alike and each symmetrical with respect to a center line through said handle and slot whereby assembly with a companion member may be had with either of the two ears on one side of the companion member.

2,286,636
INSECTICIDE
Charles W. Murray, Glenside, Pa., assignor to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and his successors in office
No Drawing. Application October 1, 1941, Serial No. 413,114
3 Claims. (Cl. 167—34)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

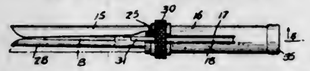
1. An insecticide containing as its essential active ingredient a mixture of rubber, poisonous liquid alkaloids, and oil.

2,286,637
HAIR CURLER
Max M. Newman, New York, N. Y.
Application January 17, 1940, Serial No. 314,193
4 Claims. (Cl. 132—33)



1. A hair curling device comprising a hollow handle portion, a mandrel around which hair is adapted to be wound supported by and laterally of said handle portion, a sleeve located within said handle portion, a supply of hair pins radially disposed around said sleeve the shanks of said hair pins embracing said sleeve so as to travel thereabout and a slide adapted to individually actuate said hair pins from within said handle portion to a position of engagement with a curl formed around said mandrel.

2,286,638
HAIR CURLER
Max M. Newman, New York, N. Y.
Application October 12, 1940, Serial No. 360,858
11 Claims. (Cl. 132—33)

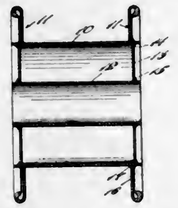


1. A hair curling device comprising a handle portion, separable longitudinal elements constituting a mandrel member around which hair is adapted to be wound connected to said handle portion, a slide for supplying a hair pin to a curl wound around said mandrel member, one of said longitudinal elements having a cam slot formed therein, and a pin formed on slide for urging said longitudinal element inwardly by engaging said cam slot thereby effecting the collapse of said mandrel member and facilitating the withdrawal of the mandrel member from within the formed curl.

2,286,639
TOBACCO PRODUCT
Emil Ott, Elsmere, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 31, 1940, Serial No. 348,692
12 Claims. (Cl. 131—17)

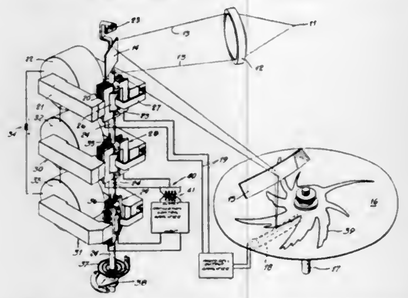
1. Tobacco to which has been added a small amount of a product of the direct reaction of an aldose with ammonia.

2,286,640
HEAD FOR SPOOLS, REELS, BEAMS, OR BEAMHEADS
Robert V. Olson and Bror A. Johnson, Attleboro, Mass., assignor to Mossberg Pressed Steel Corporation, a corporation of Massachusetts
Application December 9, 1941, Serial No. 422,288
5 Claims. (Cl. 242—123)



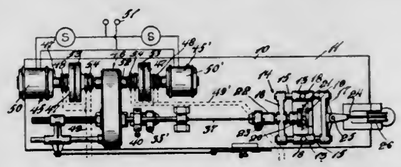
1. In a spool, reel, or the like, a barrel, a head associated therewith, said head being in the form of a sheet metal disc with its outer edge deflected out of the plane of the disc, said deflected portion being of a greater thickness than the disc in the same integral piece whereby to add rigidity to the head.

2,286,641
OSCILLATION CONTROL MEANS
Philip Padva, Los Angeles, Calif., assignor to Cannon & Co., Los Angeles, Calif., a corporation of California
Application July 13, 1940, Serial No. 345,434
5 Claims. (Cl. 172—239)



1. In a photoelectric line-tracking system: a chart having a recorded line thereon; means for moving said chart at a predetermined constant speed; means for producing a concentrated beam of light; means for deflecting said beam toward said chart and comprising a movable member mounted in the path of said beam; means biasing said member in one direction; and electric motor directly connected to said member for moving the member in an opposite direction against the force of said bias; photoelectric means for energizing said motor and responsive to light deflected by the member and reaching an area of the chart free from said line, so that the forces tending to move the member are balanced when the beam is in predetermined partly-obscured relation to the line; and means for stabilizing inherent oscillation of the beam with respect to the line, and comprising means directly connected to said member and movable to generate an E. M. F., a supplemental electric motor also directly connected to said member, an electronic amplifier having its input connected to said generating means, and means connecting the output of said amplifier to said supplemental motor, said last-named means including means whereby substantially only the generated and amplified E. M. F. which is due to said oscillation is passed to the supplemental motor in a sense tending constantly to quell said oscillation.

2,286,642
MAGNETICALLY CONTROLLED LOAD TESTING MACHINE
Pyam L. Pendleton, Cranston, R. I., assignor to Henry L. Scott Company, a corporation of Rhode Island
Application May 12, 1939, Serial No. 273,181
15 Claims. (Cl. 265—12)

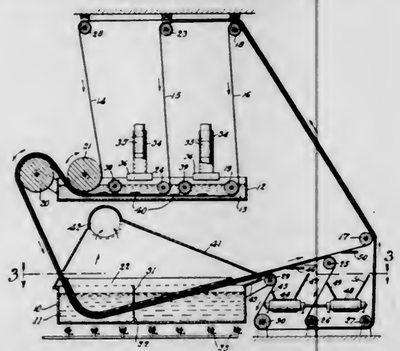


1. In a testing machine, a magnetic torque coupling through which stress is applied to a test specimen, said coupling comprising a driving member adapted to be electro-magnetically energized and a driven member adapted to receive electro-magnetic energy from the driving member in the transmission of torque, means for rotating said driving member at constant speed, means for supplying a calibrated separately controlled electric current to said driving member, means to connect said driven member to the specimen, said driven member being free to rotate in proportion to the resulting strain in the specimen, whereby said rotation permits a balance of strain for any degree of applied stress and whereby the application of a substantially constant load rate through the coupling may be had.

2,286.643
MOLDING COMPOSITIONS FROM NATURALLY OCCURRING CELLULOSIC MATERIALS AND METHOD FOR PREPARING THE SAME
Ralph Oliver Phillips, Ridgewood, N. J., and Ernst Hugo Werner Rottsieper, Epsom, England, assignors to The Forestal Land, Timber and Railways Company Limited, Epsom, England, a British company
No Drawing. Application March 8, 1941, Serial No. 382,448. In Great Britain February 13, 1940
10 Claims. (Cl. 260—10)
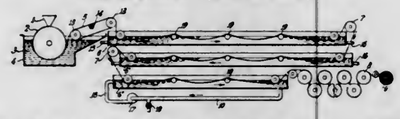
1. A composition for making molded products comprising a disintegrated naturally occurring fibrous cellulosic material inherently containing a substantial content of catechol tannins, said material being admixed with a formaldehyde-yielding body as a condensing agent.

2,286,644
METHOD AND APPARATUS FOR PROCESSING POTATOES
Mark Pringle, Amsterdam, and Herman F. Lame, Albany, N. Y., assignors of thirty-three and one-third per cent to George A. Brace
Application March 5, 1937, Serial No. 129,158
20 Claims. (Cl. 99—100)



1. The process of making an edible food product comprising passing slices of raw potatoes through a cooking bath while restraining the lateral side portions thereof against displacement whereby the resultant product is a substantially flat wafer.

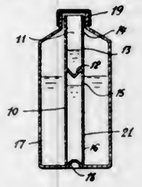
2,286,645
PROCESS AND APPARATUS FOR PRODUCING ARTICLES AND THE PRODUCTS PRODUCED
Frank H. Reichel and Arthur O. Russell, Fredericksburg, Va., assignors to Sylvania Industrial Corporation, Fredericksburg, Va., a corporation of Virginia
Application November 7, 1938, Serial No. 239,290
12 Claims. (Cl. 18—15)



6. As an article of manufacture, a pellicle of regenerated cellulose in the form of a continuous film, having substantially uniform properties in all directions resulting from continuously forming a film from a dispersion of a coagulable cellulosic material from which cellulose may be regenerated, continuously carrying the film by means of a moving body of liquid without subjecting the film to substantial longitudinal tension and regenerating the cellulose thereof while the film is being thus conveyed.

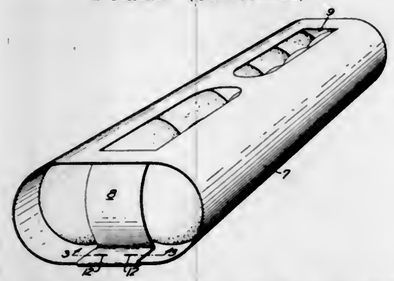
2,286,646
INK BOTTLE
Kai Reinecke, Brooklyn, N. Y.
Application December 2, 1941, Serial No. 421,268
2 Claims. (Cl. 120—69)

1. As a new article of manufacture, a tube insertible in an ink bottle, said tube reaching from the mouth of the bottle to the bottom thereof in non-attached relation to the bottle, one end of said tube engaging the side wall of the bottle neck to avoid lateral displacement of the tube within the bottle, a solid partition in said tube forming a cup therein at one end to receive by complete inversion of the said bottle and tube a predetermined quantity of ink for pen filling purposes when said bottle and tube are re-inverted and an air hole in the wall of said cup spaced



a distance above said partition to allow air to escape from said cup when the tube is inverted as aforesaid.

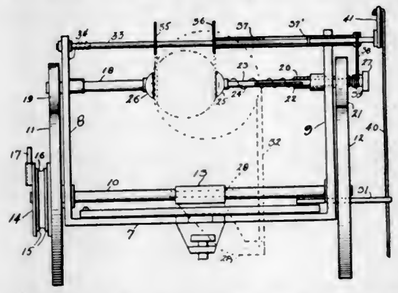
2,286,647
CONTAINER
William V. Roberts, Oakland, Calif., assignor to California Container Corporation, Emeryville, Calif., a corporation of Delaware
Application April 8, 1938, Serial No. 200,877
1 Claim. (Cl. 206—44)



A package comprising a unitary sheet of flexible material wrapped around merchandise in snug fitting engagement therewith to provide a substantially tubular body with overlapping edges defining a contour whose cross sectional area is determined by said merchandise, end closures for said tubular body comprising tabs struck from said body and inwardly bent across the respective ends of the body, each tab having one end integral with the body at one side adjacent the respective end edge thereof and having its free end secured to the other side of the body, the width of each tab being such that it has an effective closure area substantially less than the cross sectional area of the tubular body, to simultaneously provide both a display window in one side of the package of an area insufficient to permit passage therethrough of said merchandise, and a substantial opening alongside said tab.

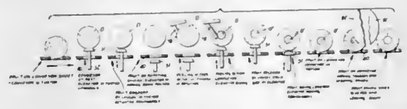
2,286,648
FRUIT PARING MACHINE
Harrison W. Rogers, Sebring, Fla.
Application February 15, 1940, Serial No. 319,024
1 Claim. (Cl. 146—43)

A fruit paring machine, including in combination, a main frame, a main shaft journaled therein, means for driving the same, two gears carried by said main shaft exterior of the frame one at each end of the shaft, a solid and a hollow shaft journaled in the main frame spaced from and parallel to the main shaft, two gears, one carried by each of the latter shafts and meshing with the respective first two gears to be operated from the main shaft, a chuck carried upon the inner end of the solid shaft, a longitudinally slidable shaft mounted in and splined to be rotated by and with the hollow shaft, said slidable shaft extending beyond both ends of the hollow shaft, a chuck carried upon the inner end of the hollow shaft for cooperation with the first chuck to hold and rotate the fruit to be pared, a spring for resiliently holding the latter chuck toward the first chuck, a rocking shaft mounted in the main frame and parallel with the other shafts, a knife blade carried by the rocking shaft adjacent the first chuck, a tubular shaft splined to and slidable upon the rocking shaft and extend-



ing exteriorly of the main frame, a second knife blade carried upon the inner end of said tubular shaft adjacent to the chuck carried by the slidable shaft, means connecting the slidable shafts for manual movements in unison, a spring for holding the rocking shaft with the knife blades away from fruit engagement, and manually operated means for rocking the shaft in opposition to said spring and to cause the knife to engage the fruit held between the two chucks to sever the button ends of the rind of such fruit engaged by the respective chucks.

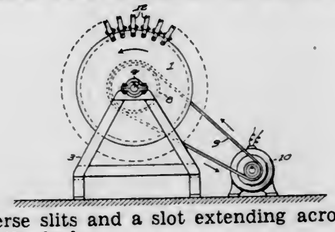
2,286,649
FRUIT PEELING MACHINE
Harrison W. Rogers, Miami, Fla.
Application October 24, 1941, Serial No. 416,356
10 Claims. (Cl. 146—43)



1. A fruit peeling machine, including a peeling means, a pair of spaced fruit-supporting chucks positioned adjacent the peeling means, means for rotating the chucks about a horizontal axis and for moving the chucks axially into and out of fruit-engaging position, an intermittently movable conveyor having a path of travel which has a portion below the space between the chucks, a reciprocable fruit elevator mounted to raise a fruit from the conveyor into the space between the chucks and means to operate the chucks, conveyor and elevator in timed relation.

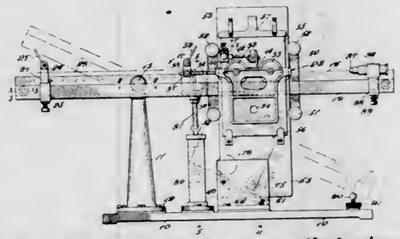
2,286,650
MACHINE FOR PLUCKING POULTRY AND THE LIKE
Otis Sandlin, Philadelphia, Pa., assignor to Whistler's Picking Machine Company, Philadelphia, Pa., a copartnership composed of Frances Emma Sandlin and Otis Sandlin
Application November 23, 1940, Serial No. 366,828
8 Claims. (Cl. 17—11.1)

4. A feather engaging stud for a poultry plucking machine comprising a resilient body having a flat front face interrupted by a plurality of



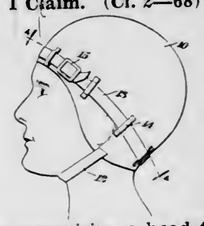
transverse slits and a slot extending across the end of the body.

2,286,651
TESTING MACHINE
David C. Scott, Providence, R. I., assignor to Henry L. Scott Company, a corporation of Rhode Island
Application August 24, 1940, Serial No. 354,009
8 Claims. (Cl. 265—2)



1. In a testing machine, a normally horizontal tiltably mounted track, means for anchoring one end of a specimen to said track, a carriage on the track to which the free end of the specimen is secured and tending to move along the track upon tilting of the track from a horizontal position to apply tension to the specimen increasing as the angle of tilt of the track is increased from a horizontal position, a platen for a chart, guides tiltable with the track for directing movement of the platen at right angles to the track, a fixed cam supporting surface engaged by some portion carried by the platen to control and cause movement of said platen against the force of gravity proportional to the load applied on the specimen, and marking means movable in response to movement of the carriage relative to the track to record on the chart the movement of the carriage along the track.

2,286,652
SWIMMING CAP
Nita C. Sheffield, Brooklyn, N. Y., Frances A. Greenwood, University, Ala., and Lyba Mackie, San Francisco, Calif.
Application April 18, 1940, Serial No. 330,280
1 Claim. (Cl. 2—68)



A swim cap comprising a head-fitting member

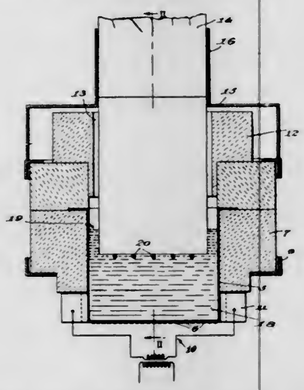
of sufficient depth and fullness in its upper portion to provide a snug fit without deforming its shape and having an outside taper toward and along its lower edge throughout its entire circumference, a reinforcing elastic band attached to the inner surface of said member along its edge, a band of elastic compressible material within said cap having its edge conforming substantially to the hairline, said band being wider and thicker in its rear portion than in its front portion and being arranged to fit over the upper part of the forehead and above the ears and low on the neck, and an elastic strip surrounding said member in front relation to said band, said strip being arranged to fit over the forehead and above the ears and low on the neck.

2,286,653

METHOD AND APPARATUS FOR FEEDING GLASS STOCK

Claus Siegfried, Dusseldorf, Germany, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware

Application March 28, 1939, Serial No. 264,602
In Germany March 29, 1938
8 Claims. (Cl. 49—53)



1. The process of feeding solid glass stock into a furnace for the production of seed-free glass at a uniform constant temperature which comprises, establishing a supply body of molten glass in said furnace, feeding thereinto downwardly from the upper surface thereof a piece of solid glass stock defined by substantially straight lines parallel with the direction of feeding movement to a depth whereat the molten glass body contacts substantial areas of the lower portions of the side faces of the stock, whereby the heat of the molten body melts the said lower end, and maintaining the lower end of said stock submerged in said body at a predetermined level below the upper surface of the molten body and above the bottom thereof and thereby continuously feed the said stock into said body at the same rate as the lower end is melted.

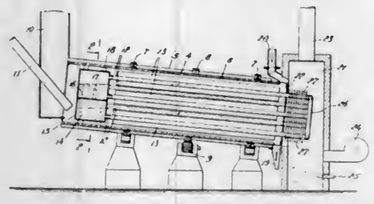
4. In apparatus for producing fibrous glass, a melting furnace having outlet orifices in proximity to the bottom thereof and side walls extending upwardly from said bottom to contain a molten pool of glass of substantial depth, means for heating said supply body to maintain the glass as it issues through said orifices at a constant temperature, a cover over the top of said furnace having a restricted opening therein for the introduction of solid glass stock in the form of an elongate body whose cross-section is substantially uniform throughout the length thereof and conforms to the shape of said opening, a stock support in said furnace in alignment with said opening disposed in a position where it will be below the normal glass level in said furnace and substantially above said orifices and upon which the lower end of said solid glass stock rests, said support being adapted to cooperate with said opening to support the stock in an upwardly extending position, thereupon exposing a predetermined length of the lower end of said stock to the heat of said molten glass to cause the same to be gradually melted and become part of said pool in a manner to prevent localized chilling of said molten glass in proximity to said orifices.

2,286,654

METHOD FOR HEAT TREATMENT FOR SOLID PARTICLES

Thomas P. Simpson, Vladimir A. Kalichevsky, and John W. Payne, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

Application February 28, 1940, Serial No. 321,185
4 Claims. (Cl. 252—281)



2. In a method of regenerating spent absorbent particles such as clay and the like which are carrying combustible impurities by burning off the impurities with air, wherein the particles are flowed downwardly through an inclined combustion zone while the air is flowed upwardly through the zone in direct contact with the particles under combustion conditions, and wherein the particles are continuously mechanically agitated by continually rotating the said zone, the improvement which comprises maintaining the temperature of all the particles in said zone within the temperature range between the minimum combustion temperature and the maximum combustion temperature for said impurities that does not cause substantial heat damage to said particles, said temperature range being maintained by circulating a liquid heat exchange medium through the interior of said rotating zone in close indirect heat exchange relationship with all the particles in said zone while maintaining the temperature of said heat exchange medium substantially within said temperature range whereby heat immediately may be added to or extracted from said particles as becomes necessary during operation.

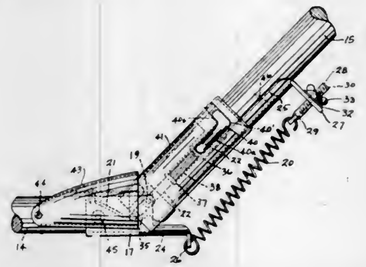
2,286,655

MOP HANDLE AND THE LIKE

Frederick Supnick, Brooklyn, N. Y.

Application October 1, 1941, Serial No. 413,100
9 Claims. (Cl. 287—99)

1. In a sectional dust mop handle and the like having a pair of pivotally connected members for connection with the adjacent ends of the sections of said handle and having resilient means for urging said members into substantially axially aligned positions, means for latching said members in said aligned positions, comprising a latch keeper member on one of said members, and a complementary latch member slidably mounted



on the other of said members and engageable with said keeper member.

2,286,656

PHOTOGRAPHIC PRINTING MATERIAL AND DEVELOPER

Oskar Süs, Wiesbaden-Biebrich, Germany, assignor to Kalle & Co. Aktiengesellschaft, Wiesbaden-Biebrich, Germany

No Drawing. Application April 4, 1940, Serial No. 327,846. In Germany May 23, 1939
10 Claims. (Cl. 95—6)

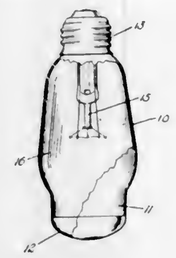
1. Photographic printing material consisting of a support carrying a layer which comprises a light sensitive diazo compound and as coupling component a phloroglucine-mono-carboxylic acid alkyl ester.

2,286,657

BLACK-OUT LAMP

Kenneth P. Swanson, North Valley Stream, Long Island, N. Y., assignor to Wabash Appliance Corporation, Brooklyn, N. Y., a corporation of New York

Application February 9, 1942, Serial No. 430,007
3 Claims. (Cl. 176—34)



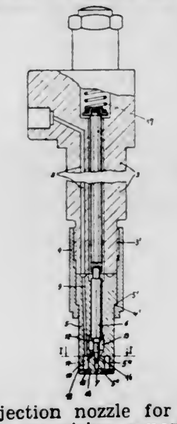
3. An electric incandescent blackout lamp comprising a bulb having a base and a filament-containing body portion defined by approximately cylindrical but slightly flaring side walls, the latter merging into a short cylindrical portion of reduced diameter terminating in a circular convex end wall, said short cylindrical portion having on at least its said end wall an external heat-resisting pigmented translucent coating, and said body portion having an internal metallic reflecting coating and an external opaque heat-resisting coating which extend from the base coextensively to the boundary line of said pigmented coating in the said short cylindrical portion of the bulb.

2,286,658

COOLED INJECTION NOZZLE

Willy Voit, Stuttgart, Germany, assignor to Robert Bosch Gesellschaft mit beschränkter Haftung, Stuttgart, Germany

Application January 18, 1940, Serial No. 314,517
In Germany February 2, 1939
5 Claims. (Cl. 299—107.1)



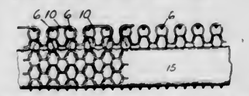
4. A fuel injection nozzle for internal combustion engines comprising, a nozzle holder provided with a fuel inlet channel and having a flat inner end, a nozzle body provided with a fuel channel and having a flat end adapted to contact in fluid-tight relation the flat end of said holder, with said fuel channels in register, means including a screw sleeve through which said nozzle body extends and which engages a shoulder intermediate the ends of said nozzle body to secure said nozzle body tightly on said holder with a free end of said body extending unobstructed for some distance from said sleeve, a nozzle needle in said body, said body being formed to provide integral therewith an exit nozzle jet opening directly into the free end of said body and a seat for said needle, the face of the free end of said body being provided with an annular recess surrounding said seat and said jet and opening into said face, and a cover member tightly secured to the free end of said body and closing the open side of said recess to define a cooling chamber which communicates with said fuel channel and with said nozzle jet and valve seat by means of a bore and a control chamber provided in said nozzle body between said bore and said exit nozzle jet whereby fuel is delivered first to said cooling chamber and then to said nozzle jet, the outlet of said fuel channel and the inlet of said bore to said cooling chamber being separated by a bar portion provided across the annular recess in said nozzle body.

2,286,659

HOSIERY

Lester D. Wagenhorst, Reading, Pa., assignor to The Nolde and Horst Company, Reading, Pa., a corporation of Pennsylvania

Application October 2, 1941, Serial No. 413,243
4 Claims. (Cl. 66—96)



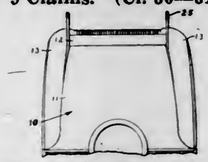
1. In a full fashioned stocking knitting machine, the method of knitting a turned welt,

which comprises forming an initial course of alternating needle and sinker loops, engaging each sinker loop on the hook of a welt bar, disengaging the loops from alternate needles by dipping action of a picot bar, to form intermediate sinker loops each held laterally spread by engagement with two welt bar hooks, knitting a plurality of usual fabric courses to a predetermined welt junction course, transferring each spread sinker loop to two needles in said junction course, interknitting each spread loop with said two needle loops in said junction course, and then completing the knitting of the stocking.

2,286,660

HAIR TRIMMING GUIDE FOR DRY SHAVERS

Lewis E. Wallace, Whittier, Calif.
Application April 9, 1941, Serial No. 387,557
9 Claims. (Cl. 30—31)

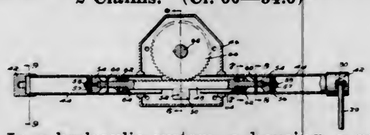


1. In a device of the class described, a shaver including a body having a cutting head and having a hair cutting guide member at each end of the cutting head, each of said guide members including a circular loop extending laterally beyond the sides of the cutting head, the axes of said loops being disposed above the cutting head, each guide member including an attaching portion remote from the loop and means to secure said attaching portions to the shaver body.

2,286,661

HYDRAULIC APPARATUS

Joseph J. Warner, Medford, Mass.
Application September 26, 1939, Serial No. 296,604
2 Claims. (Cl. 60—54.6)



1. In a hydraulic system, a housing, a pair of cylinders secured in the walls of said housing, a rack disposed in the housing and having reduced shouldered ends extending into said cylinders, a pin secured in each of said reduced ends, a piston in each cylinder having a central longitudinal bore receiving the end of the rack and a slot accommodating the pin, the inner end of each piston being provided with a tubular skirt, a spring disposed within the skirt of each piston and surrounding a portion of the reduced end of the rack, and a washer surrounding the reduced end of each rack and held against the shoulder on the rack.

2,286,662

COLOR PHOTOGRAPHY

Edith Weyde, Cologne-Riehl, and Erwin Trabert, Leverkusen-Wiesdorf, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application August 30, 1939, Serial No. 292,608. In Germany September 2, 1938
8 Claims. (Cl. 95—2)

1. In a process of color developing a multi-layer material, the several emulsion layers containing color formers and located between two adjacent emulsion layers a yellow filter layer carrying colloidal silver, the improvement which comprises conducting the color development in the presence of hydroxylamine.

8. In a process of color-developing a multilayer material, the several emulsion layers containing color formers and located between two adjacent emulsion layers, a yellow filter layer carrying colloidal silver, the improvement which comprises conducting the color development in the presence of a reducing agent selected from the class consisting of hydroxyl amines and organic hydrazine compounds.

2,286,663

REDUCTION OF INORGANIC OXIDIC COMPOUNDS BY SILICON MONOXIDE

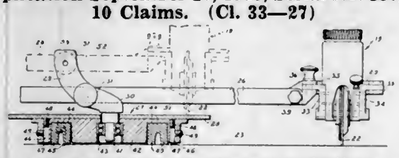
Eduard Zintl, Darmstadt, and Hans Grube, Sandersdorf, Kreis Bitterfeld, Germany
No Drawing. Application May 14, 1940, Serial No. 335,138. In Germany May 17, 1939
4 Claims. (Cl. 75—89)

1. The process for reducing inorganic oxidic compounds of elements which are volatile at the temperature at which said compounds are reduced by silicon monoxide, which comprises heating them together with silicon monoxide to reaction temperature in the presence of such an amount of lime that the total amount of SiO_2 formed during the reaction is bound as calcium silicate and removing the reduction product from the reaction mixture by distillation.

2,286,664

CIRCLE CUTTING ATTACHMENT

James L. Anderson, Closter, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application September 17, 1940, Serial No. 357,112
10 Claims. (Cl. 33—27)



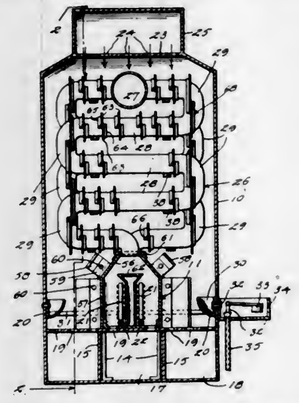
1. A circle cutting attachment including a center assembly with a magnet for holding said assembly fixed at any selected location on a pattern table, a center post in said assembly, a radius bar for connecting a tracer or other part to be guided with the center post, connecting means on the outer end of the bar shiftable with respect to the radius bar to cause the cutting operation to be started either inside or outside of the circumference of the circle to be cut, an abutment with which the connecting means contacts, and other means for controlling the radius of the circle cut by said attachment.

2,286,665

HOT AIR FURNACE

Clifford Blair, Ironton, Ohio
Application August 14, 1940, Serial No. 352,607
3 Claims. (Cl. 126—99)

1. A hot air furnace, comprising a casing, a restricted air supply channel across the upper end of the casing, a combustion chamber in the lower end of the casing and having its upper end formed of converging wall members connected by a horizontal top wall, a plurality of tubes connected to the conical upper end of the combustion chamber with superimposed horizontal convolutions, a header extending across the casing below and spaced from the air supply

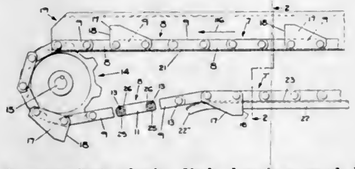


channel, and having the tubes connected to the sides thereof, and air ducts communicating with the casing at each side thereof below the lower end of the combustion chamber.

2,286,666

CONVEYER

Robert E. Briggs, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application November 7, 1940, Serial No. 364,673
9 Claims. (Cl. 198—189)

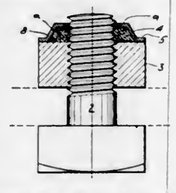


1. A sprocket chain link having end barrels each semi-cylindrical on one side and having a flat bearing surface on the other side with a width approximately equal to the diameter of the barrel and adapted to bear on the slide over a flat supporting surface for the return run thereof.

2,286,667

SELF-LOCKING NUT

Frank W. Brooke, Pittsburgh, Pa.
Application June 4, 1941, Serial No. 396,547
7 Claims. (Cl. 151—7)

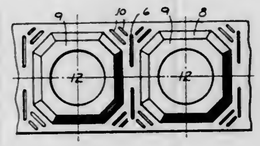


1. A nut provided on its outer face with a welded on cap having polygonal retaining walls and a central bolt clearance opening, and a thread engaging homogeneous unit of fibrous mobile material non-rotatably held in said cap.

2,286,668

MANUFACTURE OF HOLDING CAPS FOR SELF-LOCKING NUTS

Frank W. Brooke, Pittsburgh, Pa.
Original application June 4, 1941, Serial No. 396,547. Divided and this application August 14, 1941, Serial No. 406,744
6 Claims. (Cl. 10—86)

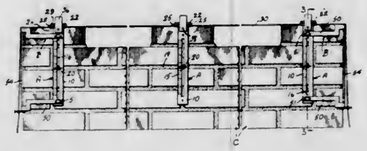


5. In the manufacture of holding caps for self locking nuts, the method consisting in progressively and sectionally deforming a continuous sheet metal parallel edge blank by partially slitting transversely between defined sections thereof whereby to effect continuous straight flange-defining edges when the sections are finally severed, pressing the middle portion of each section outwardly to form a surrounding inwardly inclined unit-retaining wall terminating in a centrally apertured flat closing wall, placing a thread engaging unit within the retaining side and closing wall portions, and then separating the sections by shearing through integral connecting portions in alinement with intervening slits.

2,286,669

BRICKLAYING INSTRUMENT

Leonard Waldo Carr, Norfolk, Va.
Application October 15, 1940, Serial No. 361,310
11 Claims. (Cl. 33—86)



1. In a bricklayer's wall guide, a first plate having a given face to be disposed against a given side of a wall, a second plate having a face to be disposed against the top of the wall, said plates forming a right dihedral angle, means for indicating the position of said plates relative to the vertical and the horizontal, respectively, and a lug adjustably secured to the first plate for movement toward and away from the edge of said right dihedral angle, said lug projecting from said given face for insertion between courses in the wall.

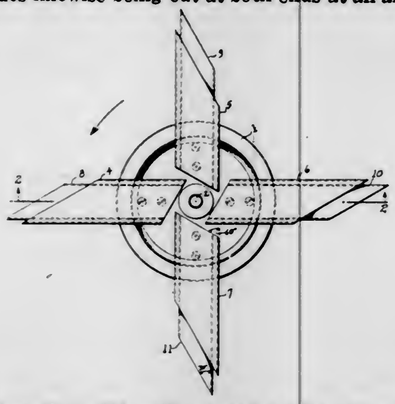
2,286,670

FAN

Maurice M. Condon, Chappaqua, N. Y.
Application September 26, 1939, Serial No. 296,534
1 Claim. (Cl. 230—134)

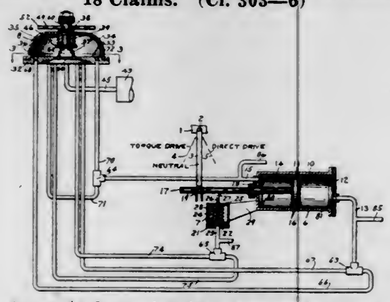
A fan having tubular blades cut at both ends at an angle of less than 90° with respect to their leading edges, said blades being mounted with their axes extending radially of the axis of rotation, a second set of tubular blades longer than said first set and mounted within said first mentioned blades so that they extend beyond the

outer edges of said first blades, said second blades likewise being cut at both ends at an angle



of less than 90° with respect to their leading edges, and means for rotating said blades.

2,286,671
CLUTCH CONTROL MEANS
Philip L. Crittenden, Edgewood, and Burton S. Aikman, Wilkinsburg, Pa., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application March 29, 1941, Serial No. 385,872
18 Claims. (Cl. 303—6)

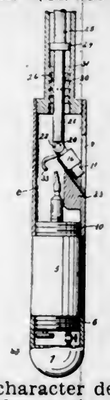


1. A control mechanism comprising movable abutment means having a neutral position and two other positions, one at each side of said neutral position, and being movable in the direction of one of said other positions upon a variation in fluid pressure in one chamber and in the direction of the other of said other positions upon a variation in pressure in another chamber, valve means having one position for effecting a variation in pressure in one of said chambers and another position for effecting a variation in pressure in the other chamber, and locking means operative upon a variation in fluid pressure to arrest said movable abutment means in said neutral position, said valve means in its last named position effecting a variation in pressure on said locking means.

2,286,672
HARD METAL ARTICLE AND METHOD OF MAKING
William W. De Lamatter, Lakewood, Ohio, assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
No Drawing. Application April 27, 1940, Serial No. 332,066
8 Claims. (Cl. 75—137)

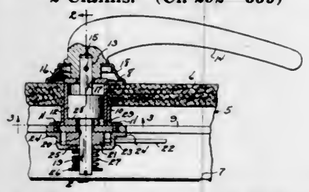
1. The method of making articles from substantially pure tungsten carbide powder which includes carburizing tungsten powder of a size that will pass a 325 mesh screen, grinding the tungsten carbide powder, leaching the ground powder with a solvent that will remove solids of lower melting point therefrom but which will not deleteriously affect the tungsten carbide; thereafter freeing the tungsten carbide powder of the solvent, treating the powder with a temporary binder-lubricant, pressing the powder into a compact mass, and heating the compact mass to drive off the lubricant binder and to integrate autogenously the powder particles of the mass.

2,286,673
MEANS FOR EXTRACTING THE PORE CONTENT OF SUBTERRANEAN STRATA
Leslie A. Douglas, San Antonio, Tex.
Application June 10, 1941, Serial No. 397,506
6 Claims. (Cl. 255—1.4)



1. A tool of the character described, comprising a vacuum chamber, a pipe string, means for supporting the vacuum chamber from the pipe string to be lowered into a well, a plunger vertically movable in the pipe string, pawl and ratchet connections between the plunger and the pipe string, a strata penetrating tool pivotally connected to the lower end of the plunger, means for initially holding said tool at an angle to the plunger and means for connecting said tool to the vacuum chamber, said tool being adapted to move to a position of greater angularity with respect to the plunger and to thereby penetrate the strata to be tested, under the action of the bodily lowering of the plunger and associated parts, after the tool has engaged the side wall of the well.

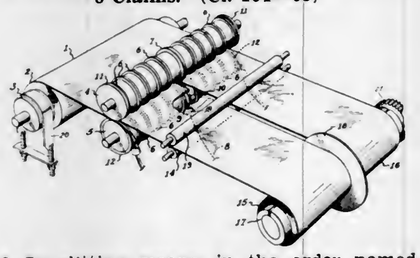
2,286,674
DOOR LATCH
Fred J. Gefri, Irvington, N. J.
Application January 13, 1941, Serial No. 374,286
2 Claims. (Cl. 292—359)



1. In a door latch of the character described, a cylindrical casing adapted to be mounted in transversely fixed position in a door, the said

casing having an inwardly directed annular flange at the inner end provided with an arcuate slot, a cylindrical plunger mounted to turn and to slide axially in the casing, a shaft section secured to and extending axially outward of the plunger and casing, an operating handle fastened to the outer end of the said shaft section, an inner shaft section secured to and extending axially from the plunger and through the inner end of the casing, a pin secured eccentrically to the inner end of the plunger and projecting axially inward thereof and releasably engageable with the arcuate slot, latch operating mechanism connected with the inner shaft section, and spring means disposed to yieldingly slide the plunger to an inward position and cause the pin to engage the arcuate slot.

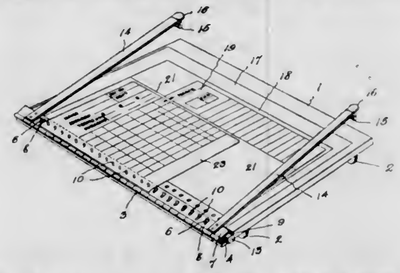
2,286,675
SLITTING CROWNED STRIP AND MECHANISM THEREFOR
Charles J. Gibbons, Middletown, Ohio, assignor to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio
Application May 31, 1941, Serial No. 396,029
8 Claims. (Cl. 164—65)



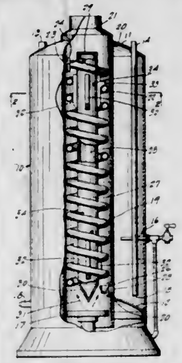
8. In slitting means, in the order named a decoiler provided with restraining means, a slitting mechanism comprising slitting rolls bearing coacting knives one set at least of which is positioned to sever the strip longitudinally, and recoiling means for a plurality of coaxial coils of the slitted means for driving said recoiling means whereby to subject the strip to tension, a central knife assembly for producing a longitudinal slit intermediate the edges of the strip comprising means for removing from the strip, and from the path of travel of the severed parts, along the line of said slit, a narrow band of metal, said slitting means including means for trimming the edges of the strip.

2,286,676
POSTING BOARD
Edwin A. Godley, New York, N. Y., assignor to S. D. Leidesdorf & Co., New York, N. Y., a partnership
Application July 1, 1940, Serial No. 343,369
3 Claims. (Cl. 282—29)

1. A posting board comprising in combination a base member, a hinged member having its lower lid connected to one of the marginal portions of said base member, at least two pegs in the lower lid of said hinged member, a removable peg strip bearing a plurality of uniformly spaced pegs inserted between the upper and the lower lids of said hinged member and having holes through which the pegs of said member may protrude to removably hold said peg strip, said peg strip being adapted to receive and to hold a plurality of sheets bearing marginal rows of perforations in predetermined relative position, and a row of elongated openings in the upper lid of said hinged member cooperating with the pegs of said peg strip to fix said sheets in such relative position between said upper and said lower lids, said pegs having such dimensions as to protrude through the upper lid of said hinged member to an extent sufficient to permit collating of additional perforated sheets above the hinged member in the closed position thereof, and the upper lid of said hinged member having a substantially smooth and unobstructed upper surface to provide a smooth supporting surface for the perforated marginal portions of such additional sheets.



2,286,677
WATER HEATER
August S. Greth, Santa Cruz, Calif.
Application July 31, 1940, Serial No. 348,926
5 Claims. (Cl. 122—169)



1. A water heater comprising; a water jacket having a vertical flue of uniform cross-section throughout its height and terminating at its upper end in a stove pipe reducer; a heater coil mounted in said flue; a burner at the lower end of said flue; and a cylindrical core uniform in cross-section mounted within the confines of the convolutions of said coil and spaced from the inner peripheries of the convolutions thereof and extending throughout the height of the coil and terminating in non-obstructive spaced relation below the lower end of said reducer and terminating at its lower end in an inverted cone and forming an annular flue for directing all heat from the burner to a limited area about the convolutions of the coil and preventing funneling of heat through the axis of the coil and arms projecting laterally from said core and cooperating with the walls of the flue for centering the core, and resting and adjustable on the convolutions of the coil for adjusting the tip of the cone vertically relative to the burner through manual rotation of the core.

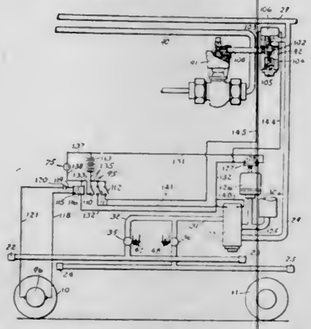
2,286,678
N-ALKENYL-AMINOPHENOL
Ivan Gubelmann, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 21, 1940, Serial No. 325,117
16 Claims. (Cl. 260—574)

1. An N-substituted aminophenol of the benzene series in which the nitrogen is in one of the positions ortho and para to the hydroxyl group and in which one substituent on the nitrogen is a member of the group consisting of alkenyl and chloroalkenyl groups and the other substituent is a member of the group consisting of hydrogen, hydrocarbon and chloroalkenyl groups.

2,286,679
COLORING MATTER OF THE PHTHALOCYANINE TYPE
Isidor Morris Heilbron, London, Francis Irving, Manchester, England, and Reginald Patrick Linstead, Cambridge, Mass., assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Original application October 6, 1938, Serial No. 233,602. Divided and this application May 18, 1940, Serial No. 336,002. In Great Britain November 16, 1932
3 Claims. (Cl. 260—314)

1. A tetranitro-copper-phthalocyanine corresponding in constitution to the empirical formula $[C_8H_3(NO_2)N_2]_4Cu$, and in which the four nitro groups are uniformly distributed over the four phenylene nuclei of the phthalocyanine complex.

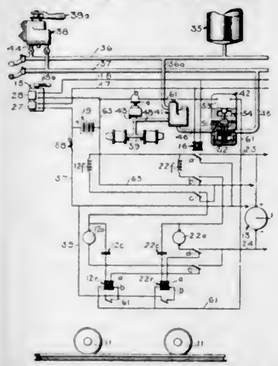
2,286,680
LOCOMOTIVE SANDING CONTROL APPARATUS
Claude M. Hines, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application April 29, 1941, Serial No. 390,892
4 Claims. (Cl. 291—2)



1. In an acceleration control system for a steam driven locomotive having a steam supply conduit and driver means, in combination, steam throttle valve means operative to reduce the flow of steam through said supply circuit, electro-responsive means for causing operation of said throttle valve means to reduce the supply of steam to the locomotive, electro-responsive sanding control means assoicated with the driver means of said locomotive, an electro-responsive relay device operable to effect energization of the first mentioned electro-responsive means and said electro-responsive sanding control means, and electrical energizing means operable by said driver means to effect operation of said relay device when a slipping condition of said driver means is indicated.

4. An acceleration control system operable to check slipping of the driver means of a locomotive during propulsion thereof, comprising electroresponsive sanding control means, electroresponsive propulsion controller means operable to limit the power applied through the medium of said driver means, a relay device operable to effect energization of both said sanding control means and said propulsion control means, means for conditioning said relay device in accordance with the rotative condition of said driver means, and means for limiting the time interval during which said relay device effects energization of said elements controlled thereby.

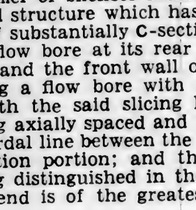
2,286,681
WHEEL SLIP CONTROL APPARATUS
Claude M. Hines, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application May 28, 1941, Serial No. 395,530
2 Claims. (Cl. 303—21)



1. In a vehicle of the type having a propulsion motor for driving a wheel of the vehicle and brake means associated with the wheel arranged to be applied and released under the control of the operator of the vehicle, the combination of means under the control of the operator for causing the propulsion motor to act as a generator and supply a voltage substantially proportional to the rotational speed of the wheel driven by the motor, current-responsive means, means for causing said current-responsive means to be energized by a current which is substantially proportional to the rate of change of voltage supplied by the motor acting as a generator, said current-responsive means being operatively responsive only to a current exceeding a certain value occurring only when the said wheel rotatively decelerates at a rate exceeding a certain slipping rate and means effective upon operation of the current-responsive means to effect a rapid reduction in the degree of application of the brakes associated with the wheel.

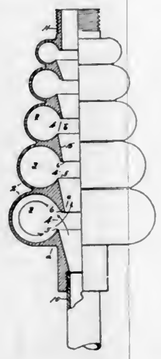
2,286,682
SWITCH FOR STARTER SYSTEMS
Frank J. Kirnberger, Milwaukee, Wis.
Application February 20, 1941, Serial No. 379,878
1 Claim. (Cl. 200—15)

An electric switch comprising a dielectric base, a substantially V-shape boss formed on the face of the base with its apex and base forming shoulders disposed inwardly of the adjacent edges of the base, a substantially U-shape terminal bracket seated on the base and resting against the shoulder at the apex of the boss, a terminal bolt securing the U-shaped bracket on the base, substantially L-shape stationary contacts formed of pairs of elongated resilient members having offset areas unequal distances from the base seated on the base with their inner bent ends resting against the shoulders at the base of the boss, terminal bolts securing the stationary contacts on the base, contact blades



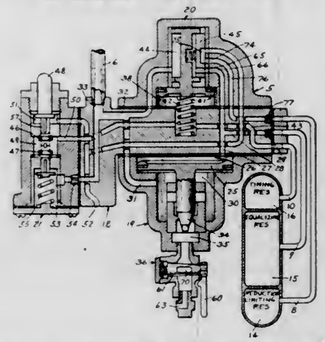
pivotally secured to the U-shape bracket for initial entrance between companion members of each stationary contact simultaneously and alternately lodge between the offset areas in disconnected electrical relation therewith when swung toward the base, a dielectric handle connecting the pivoted blades, an electric conduit connected to the terminal bolt of the U-shape bracket and an electric conduit from different sources of electric supply connected to each terminal bolt of the stationary brackets.

2,286,683
DIFFERENTIAL CELL ORBITAL FLOW FLUID SILENCER
Howard McCurdy, Walnut Park, Calif.
Application November 13, 1940, Serial No. 365,496
9 Claims. (Cl. 181—48)



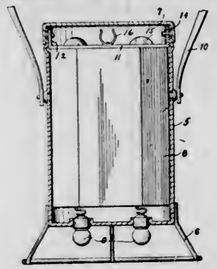
1. A muffler or silencer including an annular, hollow wall structure which has along its axis a plurality of substantially C-section portions each having a flow bore at its rear whose edge is a slicing lip and the front wall of each said portion having a flow bore with an annular edge coaxial with the said slicing lip and the said edges being axially spaced and forming a mouth at the chordal line between the ends of the relative C-section portion; and the C-section portions being distinguished in that the first as to the inlet end is of the greatest volume in the series.

2,286,684
REAR END BRAKE VALVE
Raymond E. Miller, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application September 28, 1940, Serial No. 358,780
15 Claims. (Cl. 303—47)



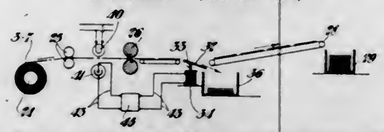
1. Means operative at the rear end of a train for venting fluid under pressure from the brake pipe of a train fluid pressure brake system, which system is of the type having brake controlling valve devices operative upon a service rate of reduction in brake pipe pressure to effect a service application of the brakes, said means comprising valve means for venting fluid from the brake pipe to effect a service rate of brake pipe reduction, means for limiting the reduction in brake pipe pressure, and means including a plunger having a normal position and a depressed position and operative when held in said depressed position for an interval of time to automatically effect operation of the first and second mentioned means.

2,286,685
COMBINED BATTERY RETAINER AND BULB CARRIER FOR ELECTRIC LANTERNS
William M. Moxley, Kansas City, Mo.
Application June 10, 1941, Serial No. 397,480
3 Claims. (Cl. 240—10.63)



1. In an electric hand lantern of the type comprising a lantern body and a battery in said body, the side walls of the body projecting upwardly beyond the battery, of a freely removable pressure exerting retainer for the battery comprising a plate and an upstanding end portion at each end of said plate, the upper faces of the end portions being oppositely inclined and notched to provide upwardly facing teeth, pins carried by and projecting inwardly from the inner walls of the lantern body in position to be engaged by said teeth when the plate is turned about a vertical axis to force the inclined faces of the said ends beneath said pins.

2,286,686
APPARATUS FOR REJECTING DEFECTIVE METALLIC SHEETS
Earll R. Muddiman, Wilkinsburg, Pa.
Application November 27, 1939, Serial No. 306,417
2 Claims. (Cl. 29—17)

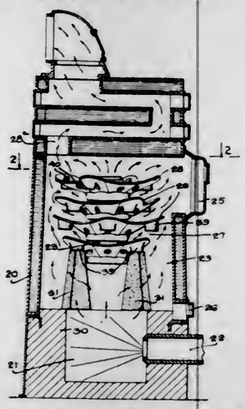


1. In an apparatus for manufacturing sheets from joined metallic strips comprising means for forming holes in the joined strips on either side of and adjacent the joint, means for detecting said holes while the strips are in motion, means for shearing the strips into sheets, and means for conveying each sheet to one of a plurality of separate discharge points, said last-named means being automatically controlled by the hole-detecting means.

2,286,687
FINGERNAIL ENAMEL REMOVER
William F. Ochs, Milltown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 28, 1939, Serial No. 296,915
2 Claims. (Cl. 252—123)

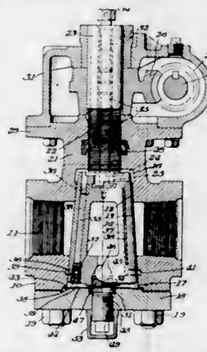
1. A finger nail enamel remover of creamy consistency consisting of about 4 per cent of lanolin, about 11.5 per cent of wax, from 2 to 6% by weight of an alkali metal soap, about 5% of water, and from 70 to 80% of a solvent for cellulose nitrate.

2,286,688
BAFFLE AND HEAT RETAINING DEVICE
Edward A. Roth, Philadelphia, Pa.
Application April 12, 1940, Serial No. 329,245
9 Claims. (Cl. 110—97)



1. The combination with a furnace having a fire box with a burner at the bottom of its combustion chamber, of a flame diffusing and heat retaining assembly positioned centrally of the combustion chamber and of greater overall diameter than the fire box, said device comprising a series of superposed, perforated, dished, approximately square metal plates, each plate comprising a collar with an axial passage having an annular channel on its lower face, each plate further comprising a plurality of segments extending outwardly from the collar, one set of alternate segments having lobes extending beyond the outer edges of adjacent segments, the plates being angularly displaced relative each other, and flame diffusing spacers adapted to be interposed between any desired pairs of adjacent plates, each comprising an axial tube having an external diameter smaller than the axial passage in said plates, wings extending radially from said tube, an annulus at one end spaced radially and axially from the tube and disposed in the above mentioned shoulder of one adjacent plate, the wings each having lower portions fitting snugly into the collar of the other adjacent plate and providing for a firm assembly between a spacer and a pair of adjacent plates and also providing for the free flow of flame and gases in many directions through said assembly.

2,286,689
LUBRICATED VALVE
George F. Scherer, San Francisco, Calif., assignor to Merco Nordstrom Valve Company, Pittsburgh, Pa., a corporation of Delaware
Application July 16, 1941, Serial No. 402,595
8 Claims. (Cl. 251—93)

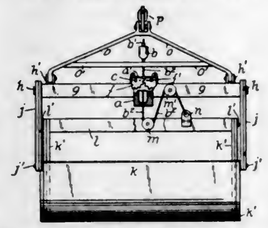


1. A valve comprising a casing having a passageway therethrough for flow of fluid and a seat extending transversely of the passageway, a plug located in said seat and having a port adapted to connect with said passageway in open position of the valve, said plug and casing providing chambers at opposite ends of the plug, means for supplying lubricant under pressure to one of said chambers, a duct not connected with the plug surface connecting said chambers, and a valve in said duct permitting flow from said one chamber to the other and preventing flow in the opposite direction.

2,286,690
PROCESS OF PREPARING THIURAM SULPHIDES
Robert L. Sibley, Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application September 16, 1940, Serial No. 356,977
11 Claims. (Cl. 260—567)

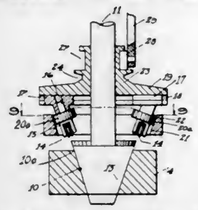
1. The method of making a thiuram disulphide which comprises oxidizing an N-hydrocarbon substituted dithiocarbamic acid by means of a water-soluble hypochlorite while maintaining the reaction mixture at a pH corresponding to about 420–700 millivolts as measured by the system Sb-sat. calomel.

2,286,691
SCOOP DREDGE
Thomas Smith, Franklin, South Australia, Australia
Application December 17, 1940, Serial No. 370,456
In Australia September 10, 1939
4 Claims. (Cl. 37—184)



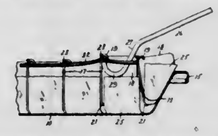
1. A control device for a scoop bucket having upper and lower horizontal frames, bucket sections pivoted to the lower frame and lazy tong arms pivoted to the upper frame and bucket sections, respectively, said device comprising a control weight, a control block secured to said upper frame and being provided with a vertical passage for said weight and with a seat limiting the downward movement of said weight, a cable attached to the lower end of said weight and extending through an axial opening in said seat, said cable being arranged to pull the lower frame towards the upper frame and to close the bucket when said weight is lifted out of said control block, a control cable attached to the top of said weight, pivoted pawls mounted in said control block and being capable of assuming upper operative end positions, in which they project into said passage thereby permitting downward movement of the weight onto said seat but preventing upward movement of the weight from said seat, and a lower inoperative position in which said weight may travel freely through said passage, means holding said pawls normally in their operative upper positions, and means to connect a lifting cable with said upper frame, said connecting means including an element to move said pawls to their inoperative lower positions when the tension on the lifting cable is relieved.

2,286,692
METHOD OF AND APPARATUS FOR PRODUCING ROLLED RIMS ON PAPER CUPS
Frederick C. Smith, Worcester, Mass., assignor to United States Envelope Company, Springfield, Mass., a corporation of Maine
Application January 10, 1941, Serial No. 373,890
4 Claims. (Cl. 93—36.5)



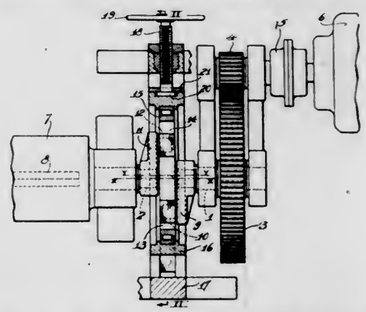
1. Apparatus of the class described, comprising a holder for receiving a paper cup having a conoidal or wedge-shaped body and an open elliptical mouth, a rigid form relatively movable with respect to said holder for clamping the cup body therein, with the edge portion of the cup mouth extending beyond said form, a tool slidably mounted on a carrier rotatable about the axis of said cup form, and means cooperating with said tool simultaneously with its rotation by said carrier for causing said tool to travel in an elliptical path of diminishing perimeter as it engages the edge of said cup to roll a bead thereon.

2,286,693
FREEZING TRAY
Carl H. Steenstrup, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Original application June 8, 1937, Serial No. 147,056. Divided and this application March 21, 1940, Serial No. 325,141
7 Claims. (Cl. 62—108.5)



1. A removable partition assembly for freezing trays comprising a plurality of similar partition elements adapted to form walls of a plurality of ice block compartments, each of said elements having an opening therein in its upper portion, and means including an elongated connector passing through the opening in each of said elements for retaining said elements in assembled relation, said means providing for independent relative translatory movements of said partition elements in the planes of their surfaces to facilitate the release of ice blocks from compartments formed by said partition elements.

2,286,694
VARIABLE SPEED DRIVE
Howard H. Talbot, Pittsburgh, Pa., assignor to United Engineering and Foundry Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 7, 1940, Serial No. 355,790
7 Claims. (Cl. 74—69)



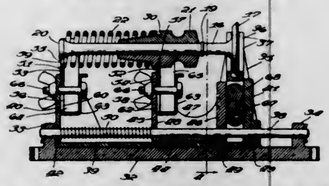
1. In a variable speed drive, the combination of coaxial rotatable driving and driven shafts having adjacent ends each provided with a crank arm, a cylindrical disk-like power transmitter positioned between said shaft ends and having its periphery lying outside of the orbits of the outer ends of said crank arms, a bearing in which the periphery of said transmitter is rotatably mounted, said crank arms and transmitter being provided the one with radially extending slots and the other with a wrist pin on each face engaged by said slots, and means for moving said transmitter to position its axis at desired distances from the axis of said shafts.

2,286,695

MACHINE FOR ASSEMBLING AND/OR DISASSEMBLING THE PARTS OF SPRING TENSIONED DEVICES

Asa J. Taylor, River Forest, Ill.

Application November 20, 1940, Serial No. 366,457
4 Claims. (Cl. 29—86.3)



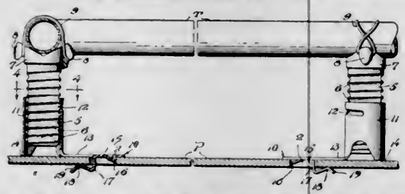
1. A machine for the purpose set forth comprising a base having a portion for engagement with the valve on the valve stem of a valve assembly, for holding said stem and valve against lengthwise movement, a plurality of slides independently movable along said base, said slides having abutments for a bushing slidable on said stem and for one end of a spring on said stem and bearing against said bushing, respectively, and means operative to actuate said slides in succession to compress said spring first from one end thereof and then from the other end thereof.

2,286,696

CLASPING CLIP DEVICE

George A. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application June 13, 1941, Serial No. 397,962
3 Claims. (Cl. 248—50)



1. A clip comprising a one-piece sheet metal body defining a generally tubular socket and an integral base projecting laterally from the socket for supporting said socket on an apertured panel or the like in generally perpendicular relation thereto, an attaching finger or the like extending in spaced relation to the undersurface of said base, said finger being receivable in said aperture and adapted to cooperate with said base of the clip in engaging opposite sides of said panel to retain the socket firmly and rigidly thereon in attached position, and a locking detent adapted to positively engage the panel to lock the attaching finger in said aperture in such attached position.

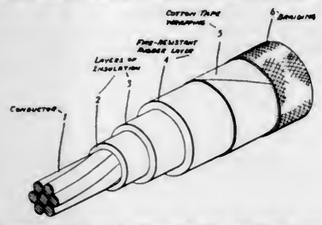
2,286,697

RUBBER COMPOSITION

Harold Arthur Tunstall and Benjamin Beardmore Evans, Gravesend, England, assignors to W. T. Henley's Telegraph Works Company Limited, London, England, a British company

Application April 26, 1939, Serial No. 270,130
In Great Britain May 16, 1938
11 Claims. (Cl. 260—738)

1. A process for producing a fire-resistant rubber composition having good electrical insulating properties, which comprises vulcanising a rubber mix which contains from 150–200 parts by weight of chlorinated rubber in power form to each 100 parts of raw rubber and is substantially



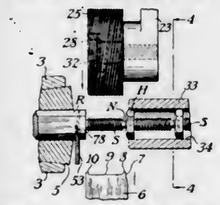
free from material that acts, either during the processing of the mix or subsequently, as a solvent both for rubber and for chlorinated rubber.

2,286,698

METHOD OF MAKING SCREW STICKS

William H. Ure, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Original application November 28, 1939, Serial No. 306,506. Divided and this application May 14, 1941, Serial No. 393,383
3 Claims. (Cl. 10—10)



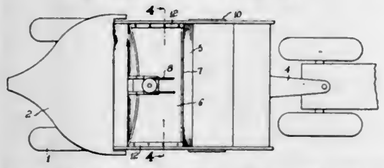
1. A method of manufacturing screw sticks comprising turning non-round stock between suitable supports, forming a screw blank thereon, threading the rotating shank of the screw blank, said screw blank including a narrowed neck between the threaded shank of one screw and the head of the next adjacent screw, moving the rod stock the length of one screw blank between the supports and repeating the operations until a plurality of integrally connected screws are formed.

2,286,699

SCRAPER

George A. Vaughn, Newton, Iowa, assignor to Koehring Company, Milwaukee, Wis.

Application January 27, 1941, Serial No. 376,216
3 Claims. (Cl. 37—124)



1. In a scraper vehicle of the class described, in combination, a body composed of spaced sides, a dirt receiving and supporting apron pivotally mounted between the sides of the vehicle with its edges arranged adjacent to the inner surfaces of said sides, a scraper blade associated with the scraper body adjacent to the receiving edge portion of the apron, and scraper plates whose surfaces are parallel with the surface of the apron

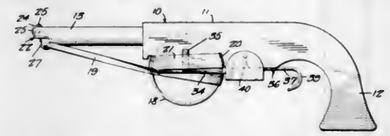
detachably mounted upon the side edges of the apron and having their outer edges disposed in close relation to the inner surfaces of said sides.

2,286,700

TOY GUN

Perlo Vincent, Gloversville, N. Y.

Application March 26, 1941, Serial No. 385,365
4 Claims. (Cl. 124—17)



1. A toy comprising a body having a hoop receiving slot, a projector member connected with the body and engageable with a hoop in the slot for projecting the hoop, a trigger member pivotally connected with the body for movement transversely thereof, the said trigger having a hoop engaging notch and an extension disposed at one side of the body, a longitudinally slidable member for actuating the trigger to hoop releasing position, and means resiliently engaging the trigger extension to yieldingly hold the trigger in hoop holding position.

2,286,701

DIAZOTYPE PRINTING MATERIAL

Georg Werner, Wiesbaden-Biebrich, Germany, assignor to Kalle & Co. Aktiengesellschaft, Wiesbaden-Biebrich, Germany

No Drawing. Application June 22, 1940, Serial No. 341,901. In Germany June 8, 1939
8 Claims. (Cl. 95—7)

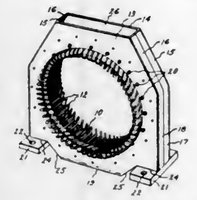
1. A diazo printing material consisting of a sheet support carrying a light-sensitive layer which comprises a diazo compound of an aminohydroquinone-dialkyl-ether containing in paraposition to the diazo group an etherified mercapto group.

2,286,702

DYNAMOELECTRIC MACHINE

Alexander P. Wood, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application November 28, 1940, Serial No. 367,551
2 Claims. (Cl. 171—252)



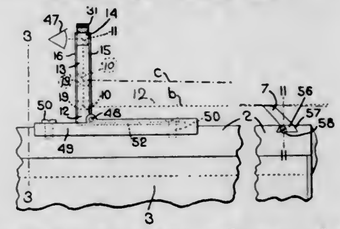
1. A stationary member for a dynamo-electric machine including a laminated core having winding slots with a winding therein, a sheet metal frame arranged about said core and including a pair of complementary substantially cup-shaped members each having an end section with an opening therein adapted to accommodate a rotatable member of the machine and having frame sides extending axially about the major portion of the periphery of said core, with adjacent edges thereof arranged substantially in abutting relationship, means for securing together said adjacent edges, and means for securing said core in position in said frame.

2,286,703

SIGHTING MEANS FOR FIREARMS

George Norman Albree, Winchester, Mass.

Application November 3, 1941, Serial No. 417,635
22 Claims. (Cl. 88—2.2)



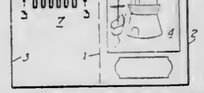
1. The combination with a firearm, of a front sight thereon, a rear sight, means for adjusting the rear sight vertically, means providing a sighting opening, means mounting said last-named means on the stock of the firearm with the sighting opening above the rear sight in a fixed position relative to the stock, which is the correct position for the gunner when he is cheeking the firearm in a normal way and means operative in all adjusted positions of the rear sight and without any further adjustment than that of said rear sight to reflect to the sighting opening an image of the aligned front and rear sights.

2,286,704

BOB PIN HOLDER

Louis C. Apt, Rockaway Park, N. Y.

Application February 6, 1940, Serial No. 317,500
2 Claims. (Cl. 206—78)



1. In combination, a plurality of bob pins having loops and resilient shanks and a folding carrying card therefor comprising two opposed face-contacting sections, the card being provided with perforations and indentations extending from the perforations in one section and repeated in the opposed section, the pins being positioned to rest with their loops hooked through the perforations of the card and their shanks on opposed sections of the card in the indentations thereof for the purposes specified.

2,286,705

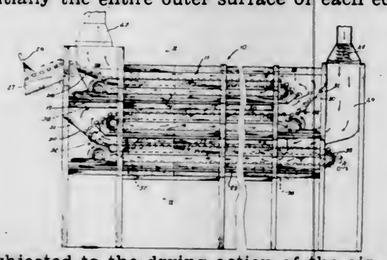
APPARATUS FOR TREATING POTATOES FOR SHIPMENT

Alexander F. Arthur, Homestead, Fla., assignor, by mesne assignments, to Frederick C. Peters, Miami Beach, Fla.

Application March 29, 1940, Serial No. 326,618
1 Claim. (Cl. 34—203)

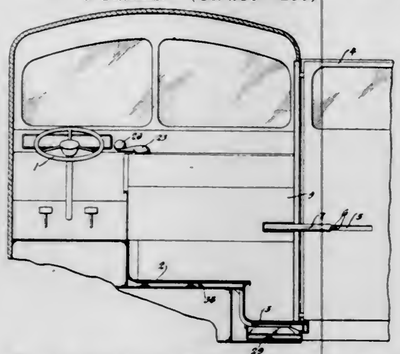
In an apparatus for treating vegetables and fruits, and especially whole potatoes, for shipment and to aid in preventing deterioration during shipment, means for first moistening the edibles, a drying chamber of predetermined size

into which the moistened edibles are delivered and including an inlet and an outlet, conveying means in said chamber for conveying the edibles entering said chamber inlet through said chamber and to said outlet, means for forcing heated air into said chamber and over and about the edibles on said conveyor means, said heated air being only of sufficient temperature to effect skin drying of the edibles without cooking them, and means for causing a relative movement of said heated air and said edibles so that substantially the entire outer surface of each edible



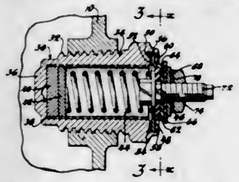
is subjected to the drying action of the air, said conveying means including a plurality of endless conveyors, and said chamber having partition means for defining a serpentine path through which said air flows, said serpentine path including a multiple of parallel sections in each of which one of said conveyors is disposed, said parallel sections being connected by end bends in each of which is disposed a flexible cushioning element for cushioning the edibles against bruising as they are discharged from one conveyor for delivery to the succeeding conveyor in said path.

2,286,706
DOOR AND STEP MECHANISM
Dwight E. Austin, Pontiac, Mich., assignor to Yellow Truck & Coach Manufacturing Company, Pontiac, Mich., a corporation of Maine
Application October 11, 1940, Serial No. 360,750
6 Claims. (Cl. 280—166)



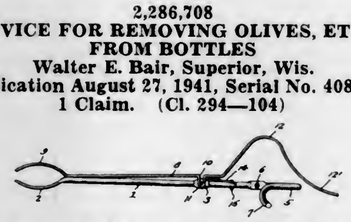
1. In combination, door and step operating mechanisms, a manually operated rockshaft fixedly connected with the door operating mechanism, a manually controlled clutch device having two positions of setting and being engageable with the step operating mechanism in both positions, an anchoring member engageable by said clutch device upon shifting the clutch device selectively to one of said positions and clutch engaging means connected with the rockshaft and engageable by said clutch device upon shifting the clutch device selectively to the other of said positions.

2,286,707
ENGINE UNIT FOR ELECTRICALLY OPERATED THERMOGAUGES
Elbridge F. Bacon, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 21, 1940, Serial No. 341,725
2 Claims. (Cl. 174—151)



1. In a seal for an engine unit of an electric telemetric temperature indicating system, a hollow shell, a recessed part in the end of the shell, a gasket positioned in the recessed part, a cover positioned over the recessed part and over the gasket, a bent over edge on the end of the shell to hold the cover in place and form a fluid tight seal, said cover having an opening at its center, a gasket in the opening, two insulating washers, one washer on each side of the opening and overlapping the cover, an electric terminal passing through said washers and cover, and a nut screwed on the end of the terminal and tightly pressing the washers and gasket together to form a fluid tight seal.

2,286,708
DEVICE FOR REMOVING OLIVES, ETC., FROM BOTTLES
Walter E. Bair, Superior, Wis.
Application August 27, 1941, Serial No. 408,559
1 Claim. (Cl. 294—104)

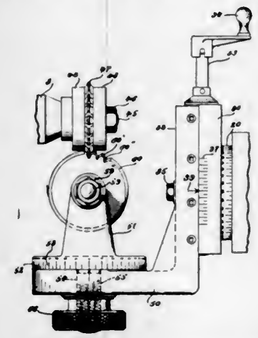


In a device of the class described, an elongated member having a forked jaw at one end thereof, loop portions at the other end forming finger engaging parts, a second elongated member having a forked jaw at one end thereof, a split loop formed intermediate the ends of the second member and the first member having a flat part passing between the loops formed by the split loop, a screw passing through the flat part and engaging the bights of the looped parts, a spring carried by the first member and engaging a part of the second member for holding the jaws closed, and a finger engaging part on the rear end of the second member which when pressed upon will open the jaws.

2,286,709
GEAR CUTTING ATTACHMENT
John W. Barcus, Baltimore, Md., assignor to Baltimore Development Corporation, a corporation of Maryland
Application March 15, 1937, Serial No. 131,002
Renewed March 19, 1940
6 Claims. (Cl. 90—9)

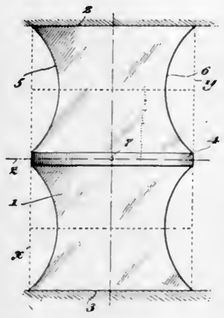
1. A gear-cutting appliance comprising a rotary spindle adapted to support a cutter mounted thereon, a rotary head and means adapted to support the same with its axis parallel to the spindle axis, means for feeding the rotary head transversely to the spindle axis, a work support

mounted on said rotary head, means for adjusting and feeding said work support transversely to the axis of said head and said first mentioned feed, a work-holding device on said work support, said work-holding device being mounted for rotation and adjustment about an axis at right angles to the axis of the rotary head and substantially parallel to said feed which is transverse to the head axis, said work sup-



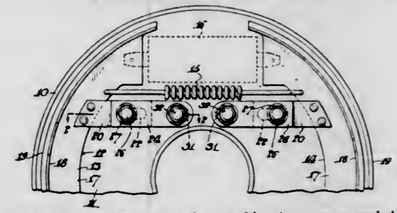
port having means for supporting a gear blank arbor with its axis at right angles to the axis of the head and which arbor in one position of said feeds has its axis diametrically related as to the axis of said head, providing for the rotation of the work and said arbor about the axis of the head in cutting relation with the cutter, the axis of the arbor and gear rotating in a plane at right angles to the axis of the head.

2,286,710
HUMIDITY RESPONSIVE INSTRUMENT
Herbert Bohnstedt, Berlin, Germany, assignor to Askania-Werke A. G., a corporation of Germany
Application December 19, 1938, Serial No. 246,687
In Germany December 22, 1937
3 Claims. (Cl. 297—1)



1. A humidity responsive device comprising, a lacquer film out of nitrocellulose as humidity responsive measuring member, said film being fixedly clamped at two opposed edges, and a measuring value transmitting system controlled in response to the film transverse movements, said transmitting system being operatively connected to the middle of said film, the width of said film measured in direction of said clamped edges decreasing from said edges and the connecting point of said system.

2,286,711
AUTOMATIC BRAKE WEAR ADJUSTMENT MECHANISM
Frank B. Buffington, Chester, Pa.
Application December 31, 1940, Serial No. 372,449
4 Claims. (Cl. 188—79.5)

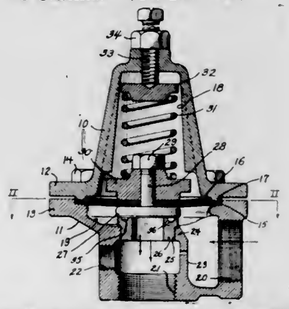


1. A unit of a brake adjuster comprising a supporting trunnion to be fixed to a wall of a brake structure, a pair of spaced complementary jaws longitudinally slidably mounted on said supporting trunnion, means to resiliently urge said jaws towards one another in the region of the trunnion, a series of teeth on the inside face of one of said jaws, a ratchet arm for connection with a brake shoe and projecting in between the jaws, a series of teeth on said arm for coaction with the jaw teeth, said arm having a longitudinally elongated aperture in the region of the teeth on said arm, a bolt projected through the jaws and passing through the elongated aperture, and means to resiliently urge said jaws towards one another in the region of the bolt.

2,286,712
CHEWING GUM
Joseph N. Borglin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 16, 1940, Serial No. 361,393
8 Claims. (Cl. 99—135)

1. Chewing gum material comprising a resinous material selected from the group consisting of polymerized rosin and polyhydric alcohol esters thereof.

2,286,713
VALVE
Arthur W. Burks, Decatur, Ill., assignor to Decatur Pump Company, Decatur, Ill., a corporation of Illinois
Application February 12, 1940, Serial No. 318,392
5 Claims. (Cl. 137—53)



4. A relief valve comprising a split casing formed by joined casing portions, a flexible diaphragm anchored at its periphery between the casing portions and separating the casing into

upper and lower chambers, a flow passageway through the lower chamber connected with an inlet opening and an outlet opening, an annular seat member defining a portion of said passageway, a valve member cooperatively associated with the seat member to control said passageway, said valve member being carried by and axially positioned relative to the valve seat solely by said diaphragm and the diaphragm having its lowermost surface exposed to the inlet pressure in said passageway, whereby upward deflection of the diaphragm acts to unseat the valve, an adjustable regulating spring in the upper chamber of the casing acting to flex the diaphragm downwardly and move the valve to seated position, means in the lower chamber for compensating for the decrease of inlet pressure acting on the diaphragm, when the valve member is unseated, whereby valve chatter is eliminated, and means acting in conjunction with said first means for maintaining a constant effective fluid pressure actuating area on said diaphragm.

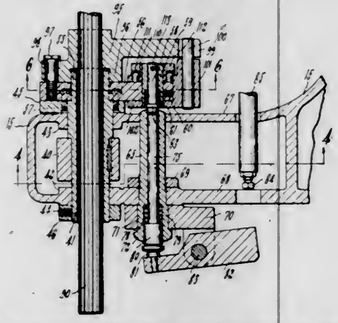
2,286,714
PHOTOGRAPHIC ELEMENT CONTAINING A TRISAZO DYE
Jonas John Chechak, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application March 22, 1941, Serial No. 384,728
14 Claims. (Cl. 95—6)

1. A photographic element comprising a support having thereon a light-sensitive layer, at least one layer comprising gelatin and a dye having the general formula:

$$R—N=N—R_1—N=N—R_2—N=N—R_3$$

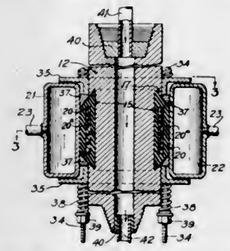
wherein R and R_3 each represents a member selected from the group consisting of an aminonaphthol-monosulfonic acid nucleus, and an aminonaphthol-disulfonic acid nucleus, and R_1 and R_2 each represents a member selected from the group consisting of a benzene nucleus, and a naphthalene nucleus.

2,286,715
THREAD CHASING ATTACHMENT FOR LATHES
Frank E. Cheever, Springfield, Vt., assignor to Jones & Lamson Machine Company, Springfield, Vt., a corporation of Vermont
Application November 6, 1939, Serial No. 303,075
7 Claims. (Cl. 29—47)



1. In a thread chasing mechanism, a movable carriage, a pair of jaws pivoted together and having a pair of opposed segmental portions defining an internally threaded nut for engagement with a lead screw when said jaws are closed together about their connecting pivot, a rock shaft, means holding said rock shaft against axial motion, a bracket carried by said carriage and through which said shaft extends, a member rockable on said bracket about the axis of said shaft and splined to said shaft, a quill rockably carried by said bracket and through which said shaft is journaled, an arm keyed to said quill, a pair of toggle links connecting said jaws, their common pivotal connection being carried by said arm, a latch arm fixed to said quill, a latch carried by said latch arm, a latch keeper with which said latch may engage in the angular position of said latch arm in which said jaws are in engagement with said lead screw, a latch-releasing member rockably carried by said latch arm, and having means for retracting said latch in one angular position of said member, and operative connections between said rock shaft carried member and releasing member causing rocking of said rock shaft in one direction to release said latch, and in the other direction to turn said quill to jaw-closing position and permitting said latch to engage said keeper.

2,286,716
MOLD FOR SUB STABILIZERS
Ernest J. Clark, Taft, Calif.
Application March 5, 1941, Serial No. 381,801
6 Claims. (Cl. 18—34)

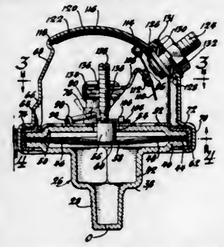


1. A stabilizer shaping and vulcanizing mold, comprising mold sections arranged for disposition around a Kelly sub for the vulcanizing of a stabilizer on the sub, means in connection with the mold sections for spacing the same from, and centering the same around, the sub, means for clamping the mold sections to each other, and mold rings in spaced relation to each other within the mold sections, and yieldably supported by said first named means for movement lengthwise of the mold sections.

2,286,717
ELECTRIC OIL PRESSURE GAUGE
Ragnar Clason, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 4, 1940, Serial No. 368,431
6 Claims. (Cl. 201—48)

1. In an engine unit of a telemetric indicating system, a base mountable on the engine, a diaphragm positioned on the base, said base having an opening to enable oil from the oil circulating system of the engine to reach the diaphragm and exert pressure thereon, a spring biasing the diaphragm in opposition to the oil pressure, means to hold the diaphragm and the spring on the base, a housing mounted over and secured to the base, a resistance mounted in the housing and forming part of an electric circuit, a contact movable along the resistance, and

means for effecting relatively large movements of the contact along the resistance in response to movements of the diaphragm, said means including lever means for moving the contact, means extending between the diaphragm and the means to cause movement of the means in re-

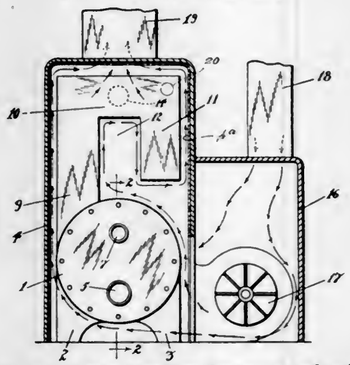


sponse to movement of the diaphragm, and a mounting for the last-named extending means providing for adjustment of said extending means to vary the effective distance between the diaphragm and the lever means and to vary the angular relation of said extending means with respect to the diaphragm.

2,286,718
ANESTHETIC COMPOUND AND SOLVENT FOR THE SAME
David Curtis, New York, N. Y.
No Drawing. Application December 17, 1935, Serial No. 54,913
10 Claims. (Cl. 260—471)

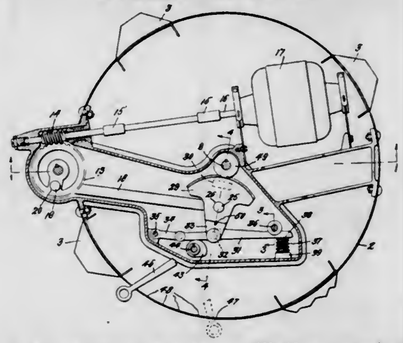
1. As a new compound, a salt of cinnamic acid and an anesthetic ester of the group having the general formula of $Ar.NH_2.COOR$, where Ar stands for an aromatic nucleus of the group of C_6H_4 and $C_6H_3.OH$, and R stands for an alkyl or an aryl or an alkamin radicle.

2,286,719
AIR HEATING FURNACE
Charles Demuth, Jamaica, N. Y.
Application January 31, 1940, Serial No. 316,461
2 Claims. (Cl. 126—110)



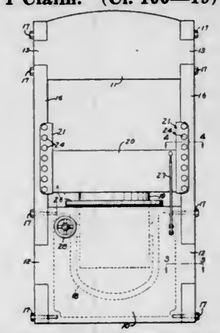
2. In a hot air heating furnace, a horizontal cylindrical fire chamber with an oil burner located at the bottom of the front thereof, a heating chamber connecting tangentially thereto in a vertical and upward direction and thence extending in a horizontal and thence in a downward and vertical direction, baffle means to extend the path of the heated fire gases mounted in the said heating chamber, and a flue connecting to the rear wall of the said heating chamber, an insulated jacket surrounding the fire chamber and the heating chamber and spaced away therefrom to form a hot air compartment, a blower system attached to the side wall of the said insulated jacket adapted to flow air over the heated surfaces of the said chambers, and an opening in the top of the said insulated jacket for conveying the heated air into a compartment to be heated.

2,286,720
WASHING MACHINE
George W. Dunham, Westport, Conn., assignor to General Electric Company, a corporation of New York
Application December 31, 1941, Serial No. 425,164
4 Claims. (Cl. 74—81)



1. A variable stroke oscillating mechanism comprising a segment gear and a pinion, means for oscillating the segment gear about an axis, means for adjusting the axis of the segment gear toward and away from the pinion, and cooperating friction surfaces on the pinion and segment gear, the friction surface on the segment gear having a part on one side of an arc concentric with the axis of oscillation whereby the length of friction contact between the segment and the pinion varies with the adjustment of the axis of the segment.

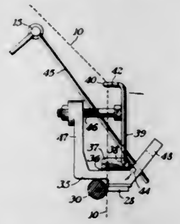
2,286,721
PRESS WITH PLATE TYPE FRAME
Walter Ernst, Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., a corporation of Delaware
Application April 8, 1938, Serial No. 200,964
1 Claim. (Cl. 100—19)



A vertical press comprising a press head, a press bed, and side members, said side members having recessed portions with the openings of said recesses directed towards the respective

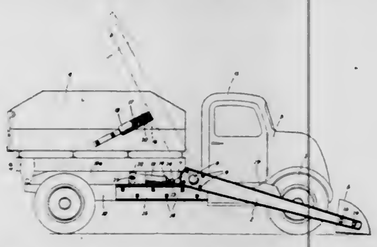
planes of the vertical edges thereof, said head and bed each being reduced at their sides to provide projections lying intermediately of their tops and bottoms, and vertical side walls above and below said projections, said projections extending entirely through the respective recessed portions of said side members and adapted to be supported by walls of said recesses, and said vertical side walls above and below said projections being entirely in contact with said side members.

2,286,722
STOPPING MECHANISM FOR YARN CONING MACHINES
Wendell G. Faw, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application April 2, 1941, Serial No. 386,496
14 Claims. (Cl. 242—37)



1. In a yarn winding machine, the combination with a rotating spindle on which a yarn winding cone is mounted for rotation to wind up the yarn in successive convolutions on said cone, a rotating member operatively connected to said spindle, an arm pivotally mounted on said machine and movable into engagement with said member to be moved thereby to stop said spindle, of a lever swingably mounted on said machine and formed with a portion adapted to engage and support said arm to retain the latter out of engagement with said rotating member, and another portion of said lever positioned to be engaged by said yarn so that the latter will be effective in supporting said lever to retain said first portion in supporting engagement with said arm.

2,286,723
SELF-LOADING VEHICLE
Roy H. Frost, Fresno, Calif., assignor of one-fourth to Edward J. Harp, Corcoran, and one-fourth to Luther F. Thornburgh, and one-fourth to Harold I. Berg, both of Fresno, Calif.
Application January 10, 1941, Serial No. 373,923
6 Claims. (Cl. 214—78)



1. A loading device for an open-topped truck body comprising a pair of side arms spaced apart a distance greater than the width of the truck and body, a scoop supported by and extending between the arms at their forward end, a transverse shaft connecting the arms at their rear end, means to rotate the shaft, the truck having spaced side frames above which the shaft extends, separate bearing sleeves about the shaft, plates on which the sleeves are fixed overlying and resting on the frames and means removably securing the plates on the frames.

2,286,724
TREATMENT OF OIL WELLS
Allen D. Garrison, Houston, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Original application June 10, 1938, Serial No. 212,976. Divided and this application March 31, 1939, Serial No. 265,343
7 Claims. (Cl. 166—21)

5. In the treating of a well, the method of dehydrating the pore space including the smaller capillaries of a substantial volume of a producing sand surrounding the bore hole of the well, which comprises highly heating a pool of oil accumulated in the bore hole of the well to a temperature above the boiling point of water in the said sand, and then forcing the highly heated oil from the said bore hole back into the said sand to vaporize and remove water from the pore space including the smaller capillaries of the said producing sand for a distance of several feet and more back from and surrounding the bore hole, whereby the pressure of the heated oil forced into the said sand drives vaporized water outwardly through the producing sand away from the well bore.

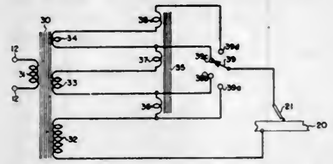
2,286,725
PURIFICATION OF SULPHONIC ACID PRODUCTS
Paul M. Goodloe, 2nd, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application October 21, 1938, Serial No. 236,246
2 Claims. (Cl. 260—504)

1. The process of purifying a crude petroleum mahogany sulfonate product containing water-soluble impurities which comprises agitating said crude product with an alkaline aqueous medium containing sufficient salt to substantially saturate the water in said medium and an organic solvent having substantial solubility for said sulphonates and not more than slight solubility in a substantially saturated aqueous salt solution, permitting two phases to form comprising an aqueous salt phase containing said impurities and a solvent phase containing purified mahogany sulphonates, separating the solvent phase from the aqueous salt phase, and recovering the purified mahogany sulphonates from said solvent phase.

2,286,726
PROCESS OF FLAMEPROOFING CELLULOSIC MATERIAL AND PRODUCTS THEREOF
Wallace Emerson Gordon, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 6, 1939, Serial No. 249,653
13 Claims. (Cl. 117—137)

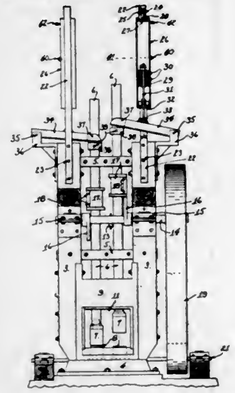
13. Process which comprises treating a cellulosic material impregnated with polyethylenimine with a fire-retardant acid.

2,286,727
ALTERNATING CURRENT REGULATING SYSTEM
Nathan H. Grober, Brooklyn, N. Y.
Application July 16, 1940, Serial No. 345,696
5 Claims. (Cl. 171—119)



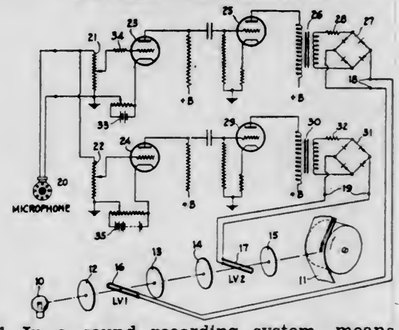
1. An alternating current regulating system comprising, a supply transformer having a primary winding and a multisection secondary winding system, a reactor unit separate from said transformer and having a multisection winding system, said reactor being excited only by the current through its said winding system, means permanently connecting all the sections of one of said winding systems in a single series circuit with all the sections of the other of said winding systems, at least a portion of the sections of one of said winding systems alternating with certain of the sections of the other, a pair of work circuit terminals, and a single pole switch for connecting to said terminals any of a plurality of selected portions of said series circuit including said alternating winding sections, whereby adjustment of said switch is effective to adjust both the impedance and the voltage of said work circuit.

2,286,728
STAMP MILL
George H. Gruss, San Francisco, Calif.
Application November 25, 1940, Serial No. 367,081
3 Claims. (Cl. 83—57)



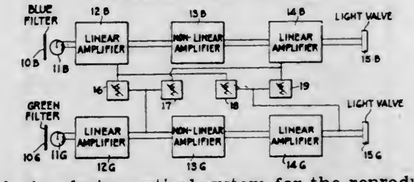
1. In a stamp mill, a vertically movable stamp, means for raising said stamp and releasing it to drop by gravity, a cylinder containing trapped air under pressure, means for holding said cylinder against longitudinal movement, a piston movable in said cylinder, a lever having a fulcrum at one end and a forked opposite end, a piston rod connecting said piston with said lever between said ends, and a collar on said stamp, the forked end of said lever embracing said stamp and resting upon said collar, said lever moving said piston with said stamp whereby the expansive force of said trapped air is added to the force of gravity when said stamp drops.

2,286,729
LIGHT MODULATION SYSTEM
Vincent C. Hall, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application February 13, 1941, Serial No. 378,781
8 Claims. (Cl. 179—100.3)



1. In a sound recording system, means for translating sound modulated current into light values comprising a first light beam modulator supplied with sound modulated current, and a second light beam modulator supplied with sound modulated current only when the intensity of such current exceeds a predetermined value.

2,286,730
ELECTRIC CIRCUIT FOR COLOR CORRECTION
Vincent C. Hall, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application May 14, 1941, Serial No. 393,418
19 Claims. (Cl. 178—5.2)

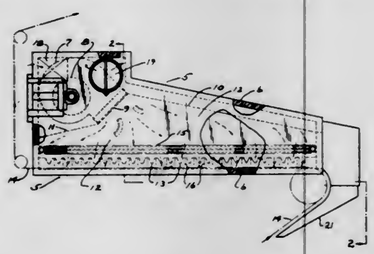


1. An electro-optical system for the reproduction of a multicolored original comprising means for establishing in separate electric channels, electric energies corresponding to the color components of each point of the original in scanning succession, each channel corresponding to one color, at least one of the channels including a non-linear amplifier having means therein for varying the energy output thereof in accordance with an exponential function of the input thereof substantially uniformly over a wide range of energies, two light modulating devices in cooperative optical tandem, one device being connected to and operated by the output of the non-linear amplifier and the other of the two devices being connected to and operated by the output of another of the channels, and means for establishing a light beam modulated simultaneously by said two devices in optical tandem.

2,286,731
DRYING APPARATUS
Milton E. Hanson, Haddonfield, N. J., assignor to B. F. Sturtevant Company, Boston, Mass.
Application February 2, 1940, Serial No. 316,898
2 Claims. (Cl. 34—160)

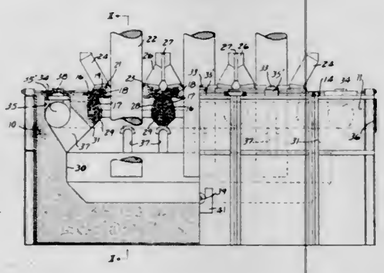
1. A dryer for web material comprising a cas-

ing having an inlet for fresh air, an outlet for moist air, and means for moving a web to be dried therethrough; comprising a plurality of aligned air nozzles spaced longitudinally of said casing and extending substantially the full length thereof; each nozzle extending a substantial distance cross-wise said casing so as to project air over the entire surface of a web moving therethrough; an air heater extending cross-wise said casing above and substantially in alignment with said nozzles; a centrifugal fan above



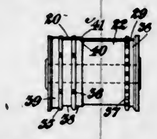
said heater and nozzles, said fan having axial inlets at opposite side walls of said casing and having a downwardly directed outlet, and means including diverging walls forming a plenum chamber connecting said outlet of said fan with opposite end walls of said casing, said plenum chamber having side walls spaced substantial distances from said side walls of said casing and forming passages for the air recirculated from said nozzles to said inlets of said fan, said heater extending substantially completely across the outlet of said chamber.

2,286,732
ELECTRIC FURNACE
Joseph A. Hardin, Sheffield, Ala.
Application March 20, 1941, Serial No. 384,351
9 Claims. (Cl. 13—9)



1. In an electric furnace for the continuous smelting of phosphate rock comprising side and end walls and a roof with an electrode mounted to feed downwardly through the roof, a feed hopper surrounding the electrode and having a constricted portion therein to cause the stock to form a gas seal around the electrode, feed chutes connected to the hopper to maintain the furnace full at all times, the under side of the roof of the furnace being inclined toward the electrode for the stock to lie thereagainst, and a gas header formed in the roof with openings into the furnace located below the stock line.

2,286,733
APPARATUS FOR PRINTING SUBSTANDARD FILM
Martin Harper, Hoddesdon, England, assignor to Varley Sound Film System Limited, London, England, a British company
Original application June 4, 1938, Serial No. 211,866. Divided and this application June 12, 1940, Serial No. 340,114. In Great Britain January 4, 1938
2 Claims. (Cl. 74—243)

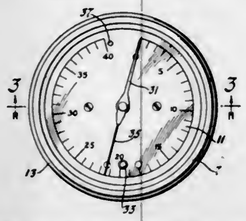


1. A sprocket wheel for use in the contact printing of the sound track of 16 mm. film from 35 mm. film comprising three rows of sprocket teeth, two rows of which are spaced apart by a distance appropriate for engaging standard 35 mm. film and one of said rows having teeth spaced at four times the normal pitch of the other row, the third row of sprocket teeth being spaced from the last said row by an amount substantially less than the distance between the first two rows so that these two rows may engage and feed 16 mm. film overlapping a 35 mm. film carried by the first and second said rows, said sprocket being adapted to draw a 35 mm. and a 16 mm. film in overlapping relationship.

2,286,734
COPPER-COBALT-TIN ALLOY
Richards H. Harrington, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application April 12, 1940, Serial No. 329,348
7 Claims. (Cl. 148—11.5)

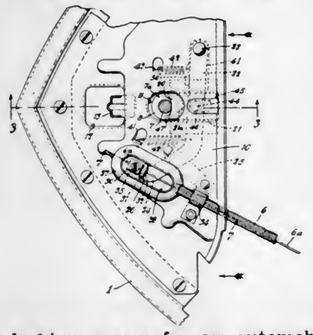
1. An alloy consisting of copper, cobalt and tin the cobalt and tin each comprising an appreciable quantity but less than 2% by weight of said alloy.

2,286,735
WARNING SIGNAL
Ralph O. Helgeby, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 9, 1940, Serial No. 355,938
2 Claims. (Cl. 200—56)



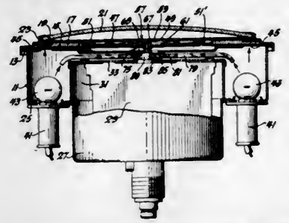
1. An indicating instrument having a movable pointer, a pivot for said pointer between its first and second ends, a pin in the path of movement of the first end, contact between said first end and pin being adapted to close an electric circuit including a signal, the second end of said pointer being resilient and a stop positioned to engage said second end.

2,286,736
HOOD LATCH AND OPERATING MEANS THEREFOR
Rowland Hill and Walter H. Krause, Chicago, Ill., assignors to Chicago Forging & Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application January 4, 1941, Serial No. 373,108
5 Claims. (Cl. 292—171)



3. In locking means for an automobile hood having a fixed hood member, and a hinged hood closure therefor, and an apertured support on the fixed hood member, and a keeper on the hinged hood member adapted to penetrate the aperture of said support, a lever pivoted on said support, means for actuating it, including a flexible wire secured to an outer portion thereof, and means for holding said wire and lever against relative longitudinal movement, including a connector mounted on said lever, means for preventing relative rotation of said connector and lever while permitting lateral oscillation of the connector, and means for connecting said wire to said connector, including a set screw penetrating said connector, the connector being apertured to permit the passage of the wire therethrough, said set screw penetrating said aperture and being adapted to engage said wire, said support being apertured in line with said connector, the head of said set screw being aligned with said aperture and being adapted thereby for ready access through said aperture.

2,286,737
COLOR SIGNAL FOR SPEEDOMETERS
Arthur W. Hills, Flushing, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 28, 1939, Serial No. 292,209
5 Claims. (Cl. 116—129)

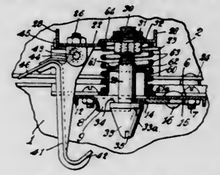


1. In a measuring instrument, a dial having indicia, a member movable to register progressively with said indicia, said movable member being adapted to transmit light by internal reflection and having a part treated to reflect light therefrom to an observer, a source of light, a means whereby light from said source to said movable member is changed in color for changed positions of movement, said last named means including a light transmitting rod having a central hub formed with a conical opening, a disk fixed in position over said opening, said disk having color selecting sections, said movable member having an apertured washer through which the light passes, said aperture being adapted to move progressively over said sections.

2,286,738
PREPARATION OF DITHIOCARBAMATES
Julian Werner Hill, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 16, 1940, Serial No. 352,983
15 Claims. (Cl. 260—500)

1. Process which comprises bringing one molecular weight (73 parts) of dimethylformamide in contact at a temperature within the range from about 20° C. to decomposition temperature with at least one molecular weight (76 parts) of carbon disulfide and at least two molecular weights of sodium hydroxide (80 parts).

2,286,739
AUTOMOBILE HOOD LATCH ADJUSTABLE KEEPER
Walter H. Krause, Chicago, Ill., assignor to Chicago Forging & Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application August 2, 1940, Serial No. 350,048
12 Claims. (Cl. 292—340)

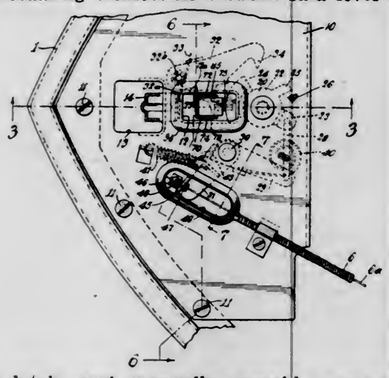


10. In locking means for an automobile hood having hingedly connected members, with a latch-part mounting element on one of said members, a combined centering member and keeper mounted on and rotatably adjustable in relation to said mounting element, said member including a stem and a generally conic head having a latch receiving ledge at its base, its outer, free end having a tool receiving aperture adapted for rotating the keeper, a cup guided on and adapted substantially to enclose said head, and having a flange adapted to abut against said ledge, the depth of said cup being less than the length of said head from said ledge to the outer free end of the head, said aperture being clear of said cup, and exposed, at all positions of the cup, and yielding means normally tending to seat said cup against said ledge, and about said head, said stem being in screw threaded engagement with said latch-part mounting element.

2,286,740
CAMMING LATCH FOR ALLIGATOR TYPE HOODS
Walter H. Krause, Chicago, Ill., assignor to Chicago Forging & Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application January 4, 1941, Serial No. 373,111
9 Claims. (Cl. 292—336)

1. In a latch assembly for automobile hoods, a latch support apertured to receive a keeper, and a latch rotatably mounted on said latch sup-

port and including a cam portion adapted to engage said keeper in latching relationship, yielding means effective normally to urge said latch toward latching position, including a lever, and a spring cooperating with said lever, and an actuating connection between said lever and



said latch, and manually operable means for moving said latch to release position, including a second lever mounted coaxially with said first mentioned lever, and having a portion adapted to move said first mentioned lever in response to movement of said second lever, and manually operable means for moving said second lever.

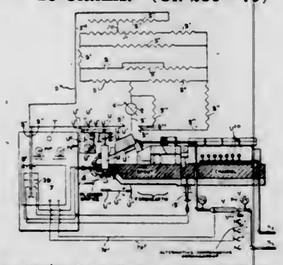
2,286,741

CONTROL APPARATUS

Anker E. Krogh, Philadelphia, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania

Original application February 4, 1935, Serial No. 4,738. Divided and this application July 9, 1937, Serial No. 152,781

18 Claims. (Cl. 236—70)



1. In a control system, a control circuit including a source of current, two circuit branches connected in parallel with one another and each in series with said source, and a cross connector adjustable to connect an intermediate point of one of said branches to the other branch at a point variable along the length of the latter, each of said branches including resistance at each side of its connection to said cross connector and the relative amounts of the resistances in the portions of said other branch at opposite sides being varied by adjustment of the latter, and means operable to simultaneously increase or decrease the amounts of resistance in said portions.

9. Measuring and control apparatus comprising normally balanced measuring means including automatic rebalancing means, means for connecting said measuring means alternately to two devices producing separate measurable effects adapted to unbalance said measuring means and thereby actuate said automatic rebalancing means to rebalance said measuring means during intervals which are longer for one device than for the other, and means for effecting a control action during each longer interval only, which control action is dependent on the value of the effect then being measured, the shorter interval being only long enough for measuring, whereby for any complete cycle of intervals the duration of the control action interval is a maximum.

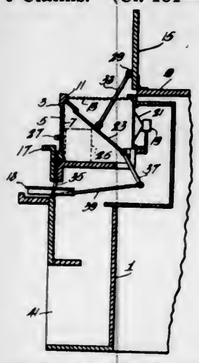
2,286,742

SOUND-PRODUCING AND SOUND-REPRODUCING APPARATUS

Edward W. Kellogg, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application March 1, 1941, Serial No. 381,220

9 Claims. (Cl. 181—31)



1. In an electrical sound producing instrument including a loudspeaker, a cabinet in which said loudspeaker is housed, said cabinet including a top and a front wall each of which has an opening therein through which sound waves emitted by said loudspeaker may pass to the exterior of said cabinet, a cover hingedly connected to said top wall and adapted to be swung to and from open and closed positions relative to the opening in said top wall, a reflector hingedly mounted in said cabinet and arranged for swinging movement into and out of two positions in one of which said reflector is outside of the path between said loudspeaker and the opening in said front wall and in the other of which said reflector is interposed in said path to shut off communication between said loudspeaker and said front wall opening and to direct sound waves emitted by said loudspeaker toward said top wall opening, and means interconnecting said cover and said reflector for movement in unison such that, when said cover is swung to open position relative to said top wall opening, said reflector is moved to its second-named position, and when said cover is swung into closed relation with said top wall opening, said reflector is moved to its first-named position.

2,286,743

AUTOMATIC FISHING DEVICE

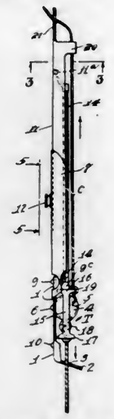
Lawrence E. Ladd, Dallas, Tex.

Application April 18, 1941, Serial No. 389,143

4 Claims. (Cl. 43—15)

1. An automatic fishing device, in combination with a fishing line, comprising a plurality of channel-shaped members disposed in adjustable and hinged relation, a tripping member, means connected to one end of the tripping member to

provide a tensional pull on said tripping member in a set position of the tripping member,



means for holding the tripping member in a set position, and means for adjusting the tripping member.

2,286,744

PROCESS OF FIREPROOFING

Martin Leatherman, Hyattsville, Md.

No Drawing. Original application November 20, 1935, Serial No. 50,763, now Patent No. 2,167,278, dated July 25, 1939. Divided and this application July 5, 1939, Serial No. 282,950

10 Claims. (Cl. 117—137)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. The process of fireproofing a cellulosic-base material comprising coating the material with a suspension of a plurality of metallic oxides selected from the group consisting of oxides of tin, lead, aluminum, titanium, germanium, zirconium, vanadium, chromium, manganese, iron, cobalt, nickel, copper, cadmium, and zinc, in an organic solution of a chlorinated resin, the metallic element of one of said oxides being chosen from the group consisting of tin and lead followed by drying said coating.

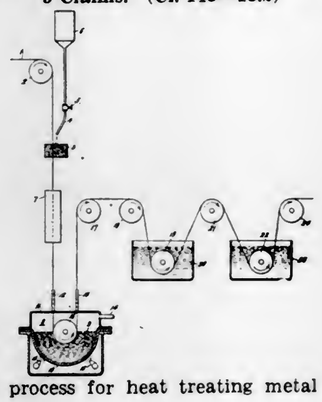
2,286,745

HEAT TREATING PROCESS

Herman A. Liebhafsky, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application January 16, 1942, Serial No. 427,032

5 Claims. (Cl. 148—13.2)



1. A process for heat treating metal articles which comprises coating said articles with an alkali silicate, immersing the coated articles in a fused lead bath at heat treating temperatures and washing said heat treated articles to remove the alkali silicate coating.

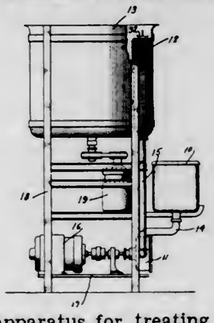
2,286,746

EGG TREATING APPARATUS

Frank B. Lomax, Chicago, Ill.

Application August 10, 1939, Serial No. 289,359

6 Claims. (Cl. 210—154)



1. In an apparatus for treating and filtering egg meats to remove foreign matter and chalazae therefrom, a mixing container for receiving the egg material and in which said material is mixed, a filter disposed in one side of small portion of the space inside said container and adjacent a vertical wall of the container, said filter extending vertically alongside said wall, means for forcing egg material into said filter and laterally therethrough into the mixing container proper, and means in said container for whirling the egg material therein, said filter being in the path of the whirled fluid and thus interrupting the whirling fluid.

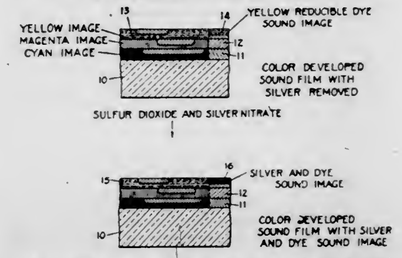
2,286,747

SOUND FILM

Leopold D. Mannes, New York, N. Y., and Leopold Godowsky, Jr., Westport, Conn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application February 21, 1941, Serial No. 379,932

12 Claims. (Cl. 95—2)



1. The method of forming sound and natural color picture images in a multilayer film having a plurality of layers sensitive to different regions of the spectrum on a support, which comprises exposing and developing the sound and picture images, subjecting the film to a series of exposure and development steps to produce silver and dye picture and sound images in the layers, the color development process being one whereby a color-forming compound combines with the oxidation product of the developer, removing the

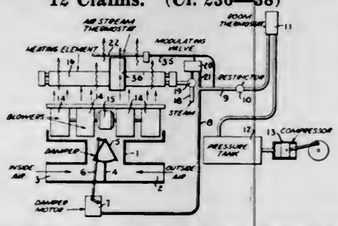
silver images, reducing the colored sound image to a leuco compound and then treating said leuco dye image with a reducible metal salt to form a metal image in the regions of the leuco dye image.

2,286,748
DENTAL X-RAY PACKAGE
Frederick C. Martin, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application October 26, 1940, Serial No. 363,049
3 Claims. (Cl. 250—67)



1. As an article of manufacture, a light-tight dental X-ray film package containing a sensitized film, and means on the exterior of the package indicating which side thereof should face a source of X-rays, said package including in its structure on the side thereof intended to face away from the source of X-rays areas having distinctly different permeability to X-rays, whereby if the package is exposed to X-rays from the reverse side, a latent image of such areas will be formed in the sensitive film.

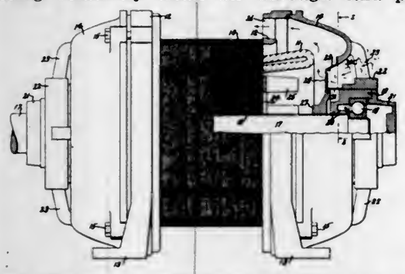
2,286,749
AIR CONDITIONING APPARATUS
John McElgin, Philadelphia, Pa., assignor to John J. Nesbitt, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application May 1, 1939, Serial No. 270,984
12 Claims. (Cl. 236—38)



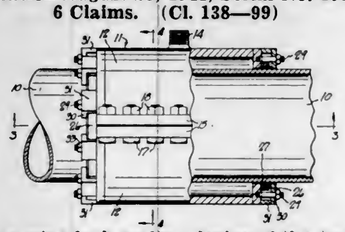
1. An air conditioning unit comprising a source of heat and a damper which admits predetermined quantities of outdoor and recirculated air to said unit, a common means for controlling said heat source and damper, said means including a single thermostat having a portion exposed to said heat source and another portion exposed to an unheated mixture of said outdoor and recirculated air.

2,286,750
DYNAMOELECTRIC MACHINE
Kenton D. McMahan, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application July 26, 1940, Serial No. 347,813
7 Claims. (Cl. 171—252)

1. A dynamo-electric machine provided with a stationary member having a casing with an air inlet opening in an end thereof and an air directing surface adjacent said opening, a rotatable member, means for drawing air into said casing through said inlet opening for cooling said machine, and means including a rotatable pinwheel mounted adjacent said inlet opening for collecting thereon foreign particles from the air passing therethrough and for throwing off by centrifugal action the collected particles for passing relatively clean air through said pinwheel, the pins of said pinwheel being arranged to extend outwardly with the ends thereof closely adjacent said air directing surface.



2,286,751
PIPE LEAK SEALING SLEEVE
Patterson D. Merrill, South Bend, Ind., assignor to M. B. Skinner Company, South Bend, Ind., a corporation of Indiana
Application August 28, 1941, Serial No. 408,599
6 Claims. (Cl. 138—99)

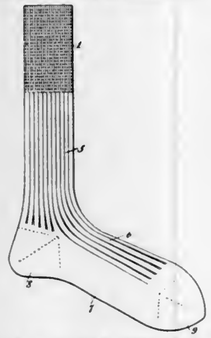


4. In a pipe leak sealing device of the type including a pipe-encircling sleeve sealed at its ends by annular gaskets fitting between said sleeve and pipe, in combination, a longitudinally split sleeve formed of rigid segments each having rigid, radial, substantially plane surfaced flanges at its longitudinal edges, means for applying a substantially continuous uniform clamping action upon opposed flanges of adjacent segments throughout the length thereof, a compressible gasket strip interposed between the inner marginal portions of each pair of opposed flanges and bearing against said annular gaskets at its ends, a rigid gasket-confining strip secured to one flange of each pair inwardly of said clamping means and engaging the outer edge of said gasket strip, and a rigid metal fulcrum strip secured to one flange of each pair in outwardly spaced relation to said clamping means, said fulcrum strip being thicker than said backing strip, and thinner than said gasket strip.

2,286,752
RESIN
Charles Joseph Mighton, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 11, 1940, Serial No. 323,448
17 Claims. (Cl. 260—70)

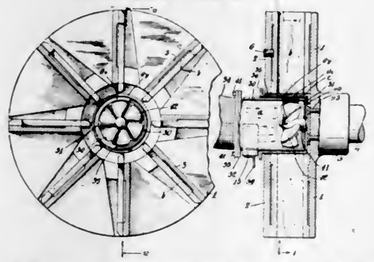
1. A resinous product, soluble in dilute acid and insoluble in dilute alkali and water, of the condensation, with alcohol evolution, of an amine wherein each nitrogen is attached only to members of the class consisting of aliphatic carbon and hydrogen, wherein there is at least one hydrogen on amino nitrogen and wherein the molecule, apart from amino nitrogen and hydrogen attached thereto, is hydrocarbon, with a condensation product of formaldehyde, an urea and an alcohol.

2,286,753
HOSIERY
John H. Miller and Frank Evans, Martinsburg, W. Va., assignors to Interwoven Stocking Company, New Brunswick, N. J., a corporation of New Jersey
Application March 5, 1937, Serial No. 129,206
15 Claims. (Cl. 66—172)



1. An article of hosiery having a leg portion of knitted rib fabric and a self-supporting seamless tubular top formed of plain knit fabric the courses of which contain the same number of stitches as the courses of said rib fabric, corresponding wales of the adjacent courses of said fabrics being united.

2,286,754
ABRASIVE THROWING MACHINE
Verne E. Minich, Scarsdale, N. Y., assignor to The American Foundry Equipment Company, Mishawaka, Ind., a corporation of Delaware
Application October 26, 1934, Serial No. 750,034
Renewed October 2, 1939
2 Claims. (Cl. 51—9)



1. A machine for throwing abrasive at blasting velocities including, a side wall member, abrasive throwing blades mounted on said side wall member extending inwardly short of the axis of rotation of said blades defining a central space, a tubular control member having a discharge opening in the side wall thereof extending into said central space, means for feeding abrasive into said control member, and an impeller fixed to rotate with said blades for throwing the abrasive out through the discharge opening in said control member, said impeller comprising a plurality of radially arranged vanes, the outer ends of said vanes being biased with respect to the advancing face of said blades and the axis of rotation of said blades whereby said vanes effect substantially uniform volume of flow of the abrasive through the entire peripheral length of said discharge opening.

2,286,755
ANODE LOCKING SYSTEM
Lysle W. Morton and Carl C. Herskind, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application June 4, 1941, Serial No. 396,584
6 Claims. (Cl. 250—27.5)



3. In combination, an anode tip, an anode stem screwed to said tip and comprising a member extending therefrom adjacent a face of said tip, two holes through said tip respectively in alignment with corresponding holes in said member, and an element mounted between said member and said face having a portion extending into one of said first-named holes and a second portion in alignment with and adapted to be moved into that one of said second-named holes in alignment with the other of said first-named holes whereby said member locks said tip in position on said stem, said first-named portion being adapted to be moved back subsequently out of said one of said first-named holes whereby said tip is unlocked from said position on said stem.

2,286,756
DISPLAY SIGN
James T. Mullen, Cleveland, Ohio, assignor to The Dyment Company, Cleveland, Ohio, a corporation
Application February 3, 1941, Serial No. 377,235
5 Claims. (Cl. 40—125)



1. A display sign for tires or like annular bodies, comprising a body having upper and side tabs projecting therefrom, resiliently connected thereto, and foldable about the said connection so as to tend to cause the tabs to resiliently move

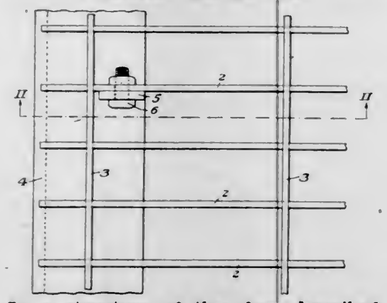
away from the side of the body, and engage the rim flange of the tire, said body being formed with an extension at its lower end to engage the lower portion of the tire at the inner side of the tread thereof for fixing the vertical adjustment of the sign body in relation to the space surrounded by the tire.

2,286,757

GRATING INSTALLATION

Leon Nagin, Pittsburgh, Pa., assignor to Reliance Steel Products Company, McKeesport, Pa., a corporation of Pennsylvania

Application May 23, 1940, Serial No. 336,755
2 Claims. (Cl. 189—84)



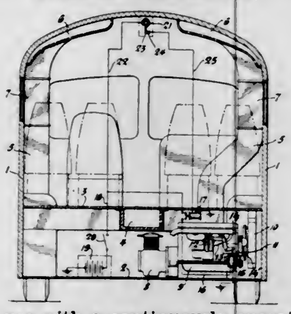
1. In a structure of the class described including a fixed support having a horizontal supporting surface, a grid including bearer bars resting on edge on said surface, and means for detachably mounting said grid on the support; the invention herein described in which said means include a bracket resting upon and welded to said horizontal supporting surface, and extending upward from said surface adjacent to the side face of a bearer bar of the grid, said bracket having a horizontal hole, and the portion of the bearer bar adjacent to the bracket having a hole so disposed that when the grid is positioned on said horizontal supporting surface the holes will register horizontally and a bolt extending through the registered holes.

2,286,758

AIR CONDITIONING SYSTEM

Laurence A. Nelson, Birmingham, Mich., assignor to Yellow Truck & Coach Manufacturing Company, Pontiac, Mich., a corporation of Maine

Application March 25, 1939, Serial No. 264,050
5 Claims. (Cl. 62—117)



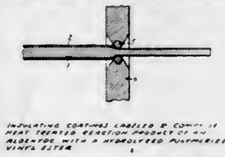
3. For use with a continuously operating cooling mechanism having a variable rate of speed dependent on heat rejection requirements in the compartment to be cooled, control apparatus for said mechanism including an engine fuel throttle movable between open and idle positions, spring means biasing the throttle toward one of said positions, and a pair of individually separate throttle operating devices each active independently of the other on the throttle for moving the same toward its other position in opposition to the biasing force of said spring means, one of said devices being responsive solely to compartment inside temperature and the other of said devices being governed in its response by engine operation, one of said devices serving normally and during the time the other device is inactive, to control throttle setting throughout the range between its open and idle positions and the other device serving in action to cancel completely the throttle control by the normal control device and positively to set the throttle in one of said positions.

2,286,759

METHOD OF MAKING INSULATED WIRE OF SMALL OR IRREGULAR CROSS-SECTION

Winton I. Patnode, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application November 18, 1940, Serial No. 366,176
1 Claim. (Cl. 91—70)



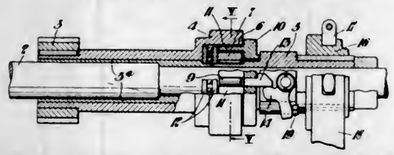
The method of forming an insulated conductor having a closely-adhering, uniform coating thereon which comprises coating a conductor with a liquid coating composition comprising the reaction product of an aldehyde and a hydrolyzed polyvinyl ester, baking said coated conductor to harden the coating thereon, continuously drawing said coated conductor through a wire drawing die to alter the diameter thereof, and annealing said drawn conductor.

2,286,760

CLUTCH

Carl H. Peterson, Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey

Application January 23, 1941, Serial No. 375,669
2 Claims. (Cl. 192—38)



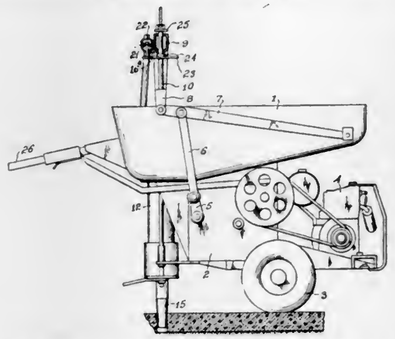
1. In a clutch mechanism, the combination with a driving shaft, of a clutch member freely rotatable thereon for selectively transmitting power from the shaft, said member having a concentric inner annular face spaced from the shaft, a cam secured to the shaft concentric within and spaced from the face of the clutch member, a plurality of rollers extending axially between said cam and face, the cam having roller recesses and having raised portions for radially displacing said rollers outwardly into engagement with the face upon rotation of the shaft, a spider having spaced portions extending axially between the rollers, said spider being freely rotatable on the shaft, a spring rotatable with the shaft and exerting a tension on the spider urging rotation thereof in a direction contra to that of the shaft, said spider having an actuating lug extending axially therefrom, a trigger pivoted to and rotatable with the shaft, said trigger engaging the lug when the spider is in position whereby the clutch rollers are in engagement with the face of the clutch member, and a clutch collar rotatable with the shaft and slidable thereon to actuate the trigger, thereby disengaging the clutch by rotating the spider to retract the rollers into the cam recesses out of engagement with the clutch member face.

2,286,761

MACHINE FOR SUPPLYING TREATMENT MATERIAL TO VOIDS BENEATH PAVEMENT STRUCTURES

John W. Poulter, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a corporation

Application February 24, 1941, Serial No. 380,350
4 Claims. (Cl. 94—39)



1. A machine for emplacing filler material beneath pavement structures, comprising, in combination, supply means for the filler material, a cylinder to receive the filler material from the supply means, a nozzle communicating with the cylinder and through which the filler material is introduced to a void below the pavement structure, piston mechanism operating in the cylinder comprising a piston and piston rod, an operating head for the piston rod, provisions by which the operating head and piston rod are movable relatively to each other, air supply means carried by the head and comprising an air conduit leading to the nozzle, at a point adjacent the opening through which the filler material enters the nozzle, a valve controlling the passage of air through said conduit, and an instrumentality operable by the piston rod for controlling the air supply action of said valve.

2,286,762

COATED RUBBER ARTICLE

George F. Rishor, Peterborough, Ontario, Canada, assignor to General Electric Company, a corporation of New York

No Drawing. Application December 19, 1940, Serial No. 370,809
In Canada August 8, 1940
7 Claims. (Cl. 117—139)

1. An article having a vulcanized rubber covering coated with a vulcanized film of a composition comprising dead-milled rubber milled until it has a plasticity figure of 72 to 75 by the Goodrich Simplified Plastometer and a substantial proportion of a reaction product of rubber and halogen acid of tin.

2,286,763

METHYL SILICON HALIDES

Eugene G. Rochow, West Albany, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Application December 26, 1940, Serial No. 371,771
3 Claims. (Cl. 260—607)

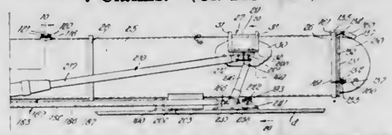
1. The method of preparing methyl silicon chlorides which comprises slowly introducing a methyl magnesium halide in small successive quantities into an agitated, cooled, anhydrous, ether solution of silicon tetrachloride under anhydrous conditions, removing the precipitated magnesium salts, distilling the remaining liquid material to remove the ether solvent, and repeatedly fractionally distilling the liquid residue to recover the mono- and dimethyl silicon chlorides boiling between 66 and 70.2° C.

2,286,764

TORPEDO TUBE

Hubert Scott-Paine, Hythe, Southampton, England

Application December 7, 1940, Serial No. 368,965
7 Claims. (Cl. 114—239)



1. In combination, a torpedo tube, forward and rearward saddles secured to said tube, a turntable at the after portion of said tube, a plate forward of said turntable adjustable concentrically therewith, a rigid frame fixed at its after end to the movable member of said turntable and at its forward end to said plate, means for adjusting the latter, said frame comprising cradles receiving the lower portion of said tube when the latter is in lowered position, a forward pair of rocker arms normally inclined upward and forward of said tube pivoted at their upper ends to said forward saddle and at their lower ends to said plate, an after pair of rocker arms normally inclined similarly to said forward arms pivoted at their upper ends to said after saddle and at their lower ends to the movable member of said turntable, and a pair of recoil take-up legs inclined upwardly and forwardly of said tube pivoted at their forward ends to said forward saddle and at their after ends to said movable member.

2,286,765

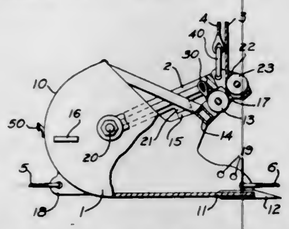
HOISTING DRAG BUCKET

Francis E. Settersten, Seattle, Wash., assignor to Northern Stevedores, Inc., Seattle, Wash., a corporation of Washington

Application January 5, 1942, Serial No. 425,605
8 Claims. (Cl. 37—135)

1. A drag bucket comprising a scoop opening towards one end, means for attachment of drag and haul-back lines at its respectively opposite ends, a bail pivoted to the scoop at a point so located that the scoop when hung by the bail alone will assume a dumping position, a line guide supported above the open end of the scoop, and so located relative to the center of gravity of the loaded scoop that an upward force

through the line guide will suspend the scoop in load-retaining position, a hoist line secured to



the bail and extending thence beneath the line guide and thence upwardly, and a dump line extending directly upwardly from the bail.

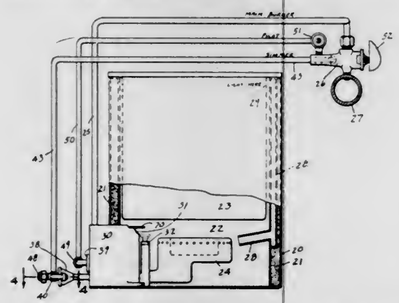
2,286,766

DEEP WELL COOKER

Alvin G. Sherman, Grosse Pointe, Mich., assignor to Globe American Corporation, Kokomo, Ind., a corporation

Application January 8, 1941, Serial No. 373,649

4 Claims. (Cl. 126—39)



1. In a deep well cooker, a casing forming a cooking well, a gas burner in the lower portion of said well, a housing in the lower portion of said well, the interior of said housing communicating with the atmosphere outside of said well, and a warming burner in said housing, a side wall of said housing being interposed between said burners and having an opening therein for passage of gas for igniting one burner from the other, and said warming burner having its gas orifice below the level of said opening whereby the flame of said second burner is protected against extinguishment caused by a rush of air through said opening as a cooking vessel is lowered into or lifted from said well.

2,286,767

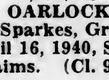
COATED ALKALINE ARTICLE AND PROCESS OF MAKING SAME

Richard Stanley Shutt, Columbus, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 21, 1938, Serial No. 247,105

7 Claims. (Cl. 117—72)

1. An article having an alkaline calcareous surface, said surface being coated with a composition impermeable to the passage of water soluble alkaline materials and thereby protective of a further coating of alkali sensitive oleoresinous compositions, said impermeable coating comprising a polymer, substantially free from active hydrogen, of at least one compound of the general formula



where A is selected from the class consisting of hydrogen and alkyl and B is selected from the group consisting of halogen, aryl, cyano, acyl, acyloxy, alkoxy, aryloxy, carboalkoxy, and carboaryloxy radicals, plasticized with a bis-aryloxyalkyl ether and thereover a coating of an alkali sensitive oleoresinous composition.

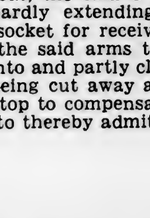
2,286,768

POWER DRIVE FOR WASHING MACHINES

Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware

Application September 21, 1940, Serial No. 357,789

4 Claims. (Cl. 74—78)



1. A power drive for oscillating the agitator shaft of a washing machine, comprising a driving shaft, a worm wheel on said driving shaft, a crank carried by said worm wheel, a rack member reciprocated by said crank, a pinion loose on the agitator shaft and in continuous meshing engagement with said rack, interengaging parts consisting in a projecting guide on the rack and a slot in the pinion for constraining relative vertical movement of said rack and pinion, and means for clutching the pinion to the agitator shaft.

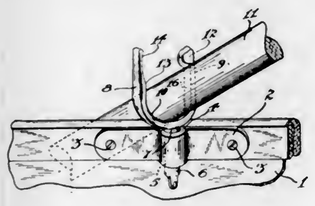
2,286,769

OARLOCK

John Gordon Sparkes, Great Neck, N. Y.

Application April 16, 1940, Serial No. 329,865

3 Claims. (Cl. 9—26)



1. An oar lock of the open U type for boats, comprising a U shaped member adapted to be attached to a boat, the said U shaped member comprising upwardly extending arms forming therebetween a socket for receiving the shaft of an oar, one of the said arms terminating in a stop extending into and partly closing the socket, the other arm being cut away at a position opposite the said stop to compensate for the offset of the stop and to thereby admit the shaft of an oar.

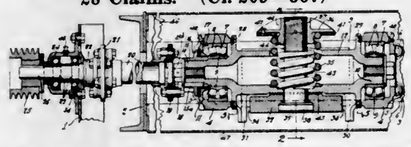
2,286,770

THROWOUT MECHANISM FOR SCREENS

Loren G. Symons, Hollywood, Calif., assignor to Nordberg Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin

Application August 4, 1939, Serial No. 288,275

28 Claims. (Cl. 209—367)



5. In a vibrating unit for screens and the like, and in combination with a screen deck, a rotor rotatably supported on said screen deck and means for rotating it, a weight mounted on said rotor, yielding means tending normally to hold said weight in fixed position in relation to said rotor until a predetermined speed of rotation of the rotor is obtained, means for limiting the outward movement of the weight in relation to said rotor, and snubbing means effective to cushion the shock of the stoppage of the weight at its outward limit of movement.

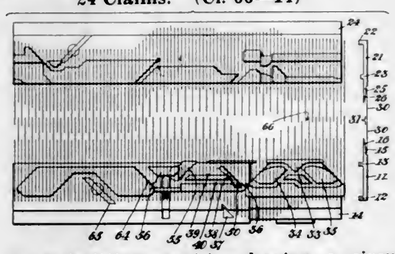
2,286,771

METHOD AND APPARATUS FOR PRODUCING KNITTED FABRICS

Paul L. Thurston, Martinsburg, W. Va., assignor to Interwoven Stocking Company, New Brunswick, N. J., a corporation of New Jersey

Application July 20, 1940, Serial No. 346,468

24 Claims. (Cl. 66—14)



1. In a knitting machine having a circular series of independently operable needles, a main yarn feeding station, and a secondary feeding station, the combination with a main draw down cam and means for feeding a fabric thread at the main feeding station, of a selecting cam operable to effect a needle separation, means for feeding elastic thread at the secondary feeding station to selected needles only, a main riser cam movable into and out of operative position and operable when in operative position to raise all of the needles in advance of the selecting cam and thereby render said cam ineffective to produce a needle separation, a secondary draw down cam at the secondary feeding station, means for moving the secondary draw down cam into and out of operative position and a secondary riser cam for raising the needles to clearing position.

2,286,772

SLICING MACHINE

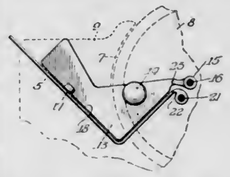
Wilhelmus Adrianus van Berkel, Clarens, Montreux, Switzerland, assignor to U. S. Slicing Machine Company, La Porte, Ind., a corporation of Indiana

Application May 24, 1940, Serial No. 337,107

In Great Britain June 20, 1939

2 Claims. (Cl. 146—102)

1. A slicing machine comprising a carriage slidable past a cutting knife, a substance support mounted on said carriage, said substance support being substantially continuous throughout its supporting surface, a pusher plate slidable in the substance support, a guide rod connected to the substance support adjacent one side thereof and extending parallel with an edge of the support to a predetermined distance beyond an outer end of the support, a second rod fixed to the support adjacent said outer end thereof and extending below said guide rod substantially parallel therewith to a corresponding predetermined dis-



tance beyond the outer edge of the support, means on the outwardly extending end of said second rod for supporting the adjacent end of said guide rod, a sleeve on the pusher for slidably and pivotally mounting the pusher on said guide rod, said sleeve and pusher being movable on the guide rod to a position beyond the said outer end of the support and pivotable at said position to a downward inoperative position beneath the supporting surface of the support, and said second rod providing a stop for limiting downward movement of the pusher and maintaining the pusher in said inoperative position.

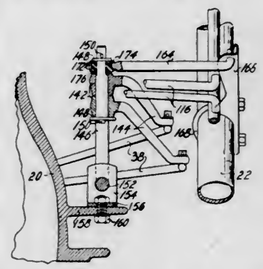
2,286,773

REMOTE GEAR SHIFTING MECHANISM

Nils Erik Wahlberg, Kenosha, Wis., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland

Application July 10, 1940, Serial No. 344,689

18 Claims. (Cl. 74—484)



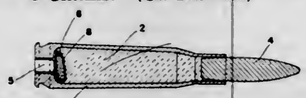
1. In combination with an automobile having a transmission arranged to be shifted by movement of a pair of levers, a shift column supported for rotational and axial movement, a pair of arms supported for rotation co-axially with said shift column, a shift arm secured to said shift column and selectively engageable with either of said pair of arms by axial movement of said shift column, a cross link connected to each of said pair of arms, a pair of cranks, said cross links being connected to said cranks, shift rods connected between said cranks and the levers on said transmission, and a mast for supporting said cranks, said mast having one end fixed relative to said transmission and being arranged to oscillate about said one end relative to said transmission.

2,286,774
RIFLE CARTRIDGE
Lewis C. Weldin, Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application February 14, 1939, Serial No. 256,281
3 Claims. (Cl. 102—12)



1. A center fire rifle cartridge for high velocity rifles which comprises a cartridge casing loaded with a progressive burning, propellant, colloided double base smokeless powder heavily deterred by surface modification, an ignition primer for said deterred powder centrally positioned within the base of said cartridge casing and loaded with fine grain black powder in amount and characteristics to insure substantially central ignition of the heavily deterred smokeless powder and a weak detonating primer not substantially stronger than a #1½ Remington rifle primer, located centrally within the base of the said ignition primer whereby ignition of the said black powder is accomplished.

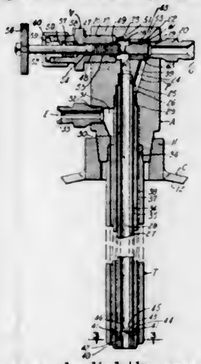
2,286,775
CARTRIDGE
Lewis C. Weldin, Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application June 11, 1941, Serial No. 397,531
5 Claims. (Cl. 102—12)



5. A center fire rifle cartridge comprising a casing containing a primer, an ignition charge, a propellent charge and a bullet, the said primer being positioned in the base of the casing and having a strength not substantially stronger than a #1½ Remington rifle primer, the ignition charge comprising a plurality of ignition powder grains not substantially faster than black powder contained within a combustible container and positioned as a unitary element within the casing and closely adjacent the primer, the propellent charge comprising a plurality of heavily deterred double base powder grains positioned against the said unitary ignition charge, and the said bullet positioned in the forward end of the said casing whereby the cartridge is characterized by an ability to maintain normal breech pressures when fired at sub-zero temperatures.

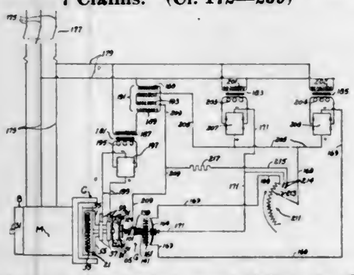
2,286,776
APPARATUS FOR DISTRIBUTING COMMINUTED SOLIDS
Virgil C. Williams, Charles J. Burch, and George H. Smith, Kenmore, N. Y., assignors to The Linde Air Products Company, a corporation of Ohio
Application July 20, 1939, Serial No. 285,558
18 Claims. (Cl. 302—53)

1. A powder dispenser comprising a container adapted to hold a supply of powdered material; a deflector at the bottom of said container comprising a member provided with a depression having a surface inclined outwardly and upwardly relatively to the vertical axis thereof; means providing a passage having a downwardly opening outlet aligned with and immediately above said deflector for discharging a gas stream; and means providing a delivery passage surrounding said gas stream discharge means, said delivery passage having a downwardly opening entrance



arranged above and slightly spaced from said deflector in the line of flow of the gas deflected therefrom, said entrance being adapted to receive such deflected gas.

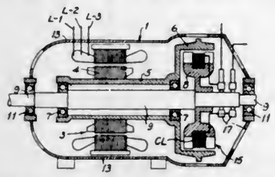
2,286,777
SPEED CONTROL UNIT
Martin P. Winther, Waukegan, Ill., and Anthony Winther, Kenosha, Wis., assignors to Martin P. Winther, as trustee
Application May 4, 1940, Serial No. 333,314
7 Claims. (Cl. 172—239)



1. Control apparatus comprising a driving member, a driven member, an electromagnetic connection between said members, a field coil for exciting said connection, an A. C. supply circuit, a D. C. circuit for said field coil, rectifier means including a transformer connecting said D. C. and A. C. circuits, a saturable choke in the A. C. circuit, a D. C. supply for said saturable choke, a resistance in said D. C. choke supply circuit, centrifugal means responsive to incipient speed change of the driven member adapted to vary the resistance to vary the current in said last-named D. C. circuit, whereby the A. C. supply is varied for the D. C. field coil supply circuit.

6. Control apparatus comprising a driving member, a driven member, an electromagnetic connection between said members, a field coil for exciting said connection, an A. C. supply, a D. C. circuit for said field coil, rectifier means including a transformer connecting said A. C. and D. C. circuits, a saturable choke in the A. C. supply circuit, an A. C. choke control circuit for said saturable choke, a variable resistance in said choke control circuit, means responsive to the speed of the driven member adapted in response to incipient speed change of the driven member to vary said resistance to vary the current in said choke control circuit, whereby the A. C. supply for the D. C. field coil circuit is varied, an armature also controlling said resistance, a second exciter coil for moving said armature, a second controlling D. C. circuit for said second exciter coil, rectifier means including transformers between the A. C. supply and D. C. control circuits which supply the choke control circuit for the saturable choke and the exciting circuit for said second exciting coil, and rectifiers fed thereby, and an auxiliary secondary coil in the transformer for the first D. C. coil exciting circuit, said auxiliary secondary being connected in voltage opposition to the secondary of the transformer connecting the A. C. circuit with the D. C. control circuit for said second exciting coil.

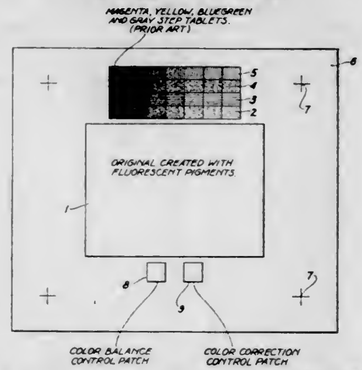
2,286,778
ELECTRICAL CONTROL APPARATUS
Anthony Winther, Kenosha, Wis., assignor to Martin P. Winther, as trustee
Application May 5, 1941, Serial No. 391,933
16 Claims. (Cl. 172—274)



1. Torque control apparatus for a motor energized from an A. C. circuit comprising an eddy-current clutch between the motor and a load, a D. C. field coil in said clutch, A. C. rectifier means feeding said D. C. field coil, potential means responsive to one portion of said A. C. circuit for actuating the rectifying means to rectify, and a second potential means responsive to current in said A. C. circuit and connected in opposition to said first-named potential means for neutralization against rectification at predetermined current values in said A. C. circuit, whereby the clutch coil is energized only up to current of predetermined value in said A. C. circuit.

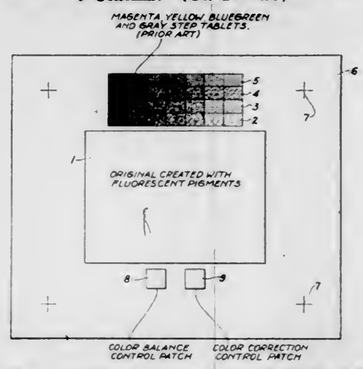
7. Torque control apparatus for a motor energized from an A. C. circuit, comprising an eddy-current clutch between the motor and a load, a D. C. field coil in said clutch, a pair of half-wave rectifying tubes feeding in parallel into said coil, each tube having an anode, a cathode and a grid, an anode transformer having a secondary connected to the anodes, a cathode transformer having a secondary connected to the cathodes, said transformers having primaries connected to said A. C. circuit, a grid transformer having a primary connected to one part of said A. C. circuit and a secondary connected to said grids and to said filament transformer, to effect alternating potential on said tubes for alternately causing current to flow into the clutch coil, a current transformer having a primary connected to another part of said A. C. circuit and having a secondary connected with said grid transformer in potential opposition, potentiometer means across the last-named secondary for controlling the potential opposition, whereby predetermined current in the motor will cause predetermined neutralization of potential on said grid, so that motor current and torque are automatically limited by the resulting slipping in said clutch when current from said tubes stops, and speed responsive means in the primary of said grid transformer responsive to the speed of the load side of said clutch to deenergize the grid transformer and consequently at excessive speeds causing said tubes to stop their current output.

2,286,779
PHOTOMECHANICAL COLOR REPRODUCTION
John A. C. Yule, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application April 5, 1940, Serial No. 328,067
11 Claims. (Cl. 88—14)



1. A device for determining whether fluoro-activating light is of a certain quality comprising a strongly fluorescent color patch which strongly absorbs from light incident thereon the color which it fluoresces, a non-fluorescent color patch and means for supporting the two patches adjacent to one another, the visual color of the two patches being the same over at least a substantial portion of the spectrum only when illuminated by light of said certain quality.

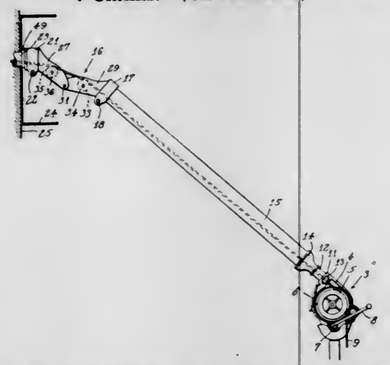
2,286,780
PHOTOMECHANICAL COLOR REPRODUCTION
John A. C. Yule, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application August 19, 1941, Serial No. 407,418
9 Claims. (Cl. 41—26)



1. The combination of an original painting created with artists' colors including fluorescent ingredients to compensate for deficiencies in their reflecting powers, a support for the original, a non-fluorescent light area on the support to

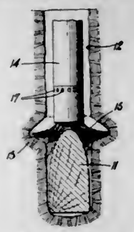
one side of the original and a strongly fluorescent patch which strongly absorbs from light incident thereon the color which it fluoresces also on the support adjacent to the non-fluorescent area, the original requiring a certain quality of fluoro-activating light for correct photo-mechanical reproduction and the visual color of the fluorescent patch matching that of the non-fluorescent area over at least a substantial portion of the spectrum only when illuminated by light of said certain quality.

2,286,781
CABLE PULLING DEVICE
John Herbert Abramson and Edwin C. Swanson, Rockford, Ill., assignors to Greenlee Bros. & Co., Rockford, Ill., a corporation of Illinois
Application September 18, 1939, Serial No. 295,358
7 Claims. (Cl. 175—376)



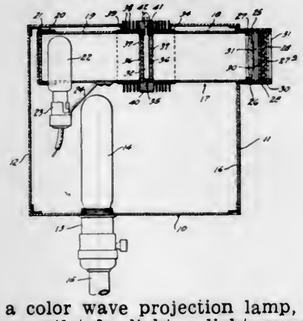
1. The combination in a device for pulling cable from conduit of a metal elbow comprising two elbow portions pivotally connected near their ends for free relative angular movement, means on the free ends of each portion for connection to a pipe, and a plurality of rollers spaced longitudinally of the elbow for transporting a cable therethrough along a relatively wide arc.

2,286,782
METHOD OF SPRINGING HOLES IN MINERALS AND MINERALLIKE MATERIALS
Robert B. Aitchison, Grasmere, Staten Island, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio
Application April 2, 1941, Serial No. 386,412
5 Claims. (Cl. 255—1.8)



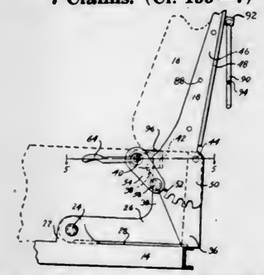
1. A method of springing a hole in a mineral or mineral-like material which comprises inserting a block of thermally dissolvable material in such hole adjacent to the bottom thereof; impinging a flame against said block, thereby deflecting the flame against the side wall of the hole and causing material to separate from said wall; advancing the flame toward the bottom of the hole as said block is dissolved by the heat of the flame; and removing the separated material from the hole during the advance of the flame.

2,286,783
COLOR PROJECTION LAMP
Oliver E. Barthel and Norman E. Marker, Detroit, Mich.
Application August 23, 1939, Serial No. 291,469
2 Claims. (Cl. 240—1)



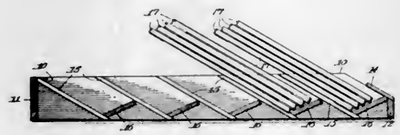
1. In a color wave projection lamp, a casing having an outlet for light, a light source within said casing, a sheet of colored cellulose material arranged in the path of light rays and having prismatic formations for diffusing the light, a pair of cellulose plate members on opposite sides of said colored cellulose material, a spacer ring engaging an outer border portion of said cellulose material, said plate members being spaced from the prismatic formations by said spacer ring, and means for urging said cellulose plate members toward each other to hold said cellulose material taut.

2,286,784
SEAT CONSTRUCTION
Alexander Benzick and Herman C. Rusch, Milwaukee, Wis., assignors to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland
Application December 6, 1939, Serial No. 307,737
7 Claims. (Cl. 155—7)



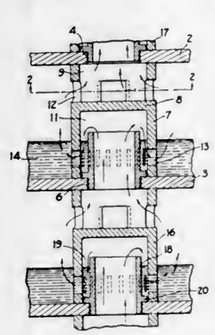
7. Automotive seat construction comprising a lower hinge member, said hinge member being pivoted at its forward end and curved to fit the end of a seat cushion, an upstanding portion on the rear of said lower hinge member, a generally vertical longitudinal flange formed on said upstanding portion, a plate fastened to said flange and extending beyond an edge of said flange, a rotatable shaft carried by said plate, an upper hinge member pivoted to said lower hinge member, and a locking pin carried on said shaft engageable with said upper hinge member in any of a plurality of positions.

2,286,785
DISPLAY CABINET
Gustav A. Carlson, Chicago, Ill., assignor to The Boye Needle Company, Chicago, Ill., a corporation of Illinois
Application August 17, 1939, Serial No. 290,690
2 Claims. (Cl. 206—72)



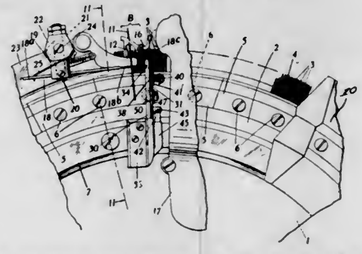
1. In a display cabinet of the character set forth, a case having rear and side walls and being open at its bottom and top sides, said rear and side walls being of substantially the same height, partition walls spaced from said side walls, aligned pairs of cleats carried by said partition walls and side walls for supporting merchandise boxes at an inclination, and platform strips extending between said cleats and providing supports for the bottom of said boxes, said cleats extending at a rearward inclination from said platforms, said platform strips being inclined forwardly and upwardly.

2,286,786
DISTILLATION COLUMN CONSTRUCTION
Harold Cloyd, Erie, Pa., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 16, 1939, Serial No. 309,640
4 Claims. (Cl. 261—114)



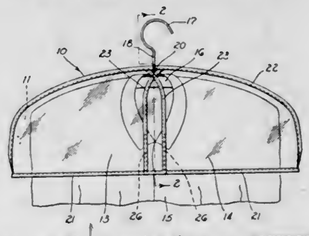
1. An apparatus for distillation in which the weight of the contents undergoing treatment therein will be borne by parts in addition to the plates therein, comprising a vertically extending column having substantially continuous sidewalls, a plurality of spaced plates having gas-riser apertures therein, abutting the sidewalls, a plurality of tubular members between the plates and in contact therewith to support the plates, partition means in each tubular member, said tubular members being characterized in that the portion thereof above the partition is integrally attached to and carried by the partition, apertures above the partition means, apertures below the partition means, another tubular member which extends to a point above the second mentioned apertures, housed by the first-mentioned tubular members.

2,286,787
MACHINE FOR PERFORMING LINKING AND SEAMING OPERATIONS ON KNITTED FABRIC
Bernard Jordan Coltman, South Wigston, and Ronald James Thornton, Blaby, England
Application July 23, 1940, Serial No. 347,014
In Great Britain August 3, 1939
12 Claims. (Cl. 112—25)



1. A machine for performing linking and seaming operations upon knitted work comprising, in combination, a looping mechanism located at a stitching zone, a movable part which is adapted to support the work and carry the latter past the looping mechanism, a chaining element which is located adjacent to the stitching zone, a part of said element being of a movable character adapted normally to occupy a position out of alignment with the path normally followed by the stitches on the stitched work but to be held in this path by said work while it is being operated upon at the stitching zone and upon release by the work after the latter has been carried beyond the chaining element to be caused to resume its normal position, and cutting means so arranged in relation to the stitching zone and the chaining element as to be normally clear of the stitching on the work but to receive and cut the waste stitching when the movable part of the chaining element is released by the stitched work as aforesaid.

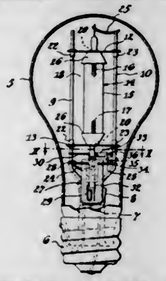
2,286,788
GARMENT PROTECTOR
Ira J. Cool, Jr., Santa Monica, and Ellis H. Wildman, Los Angeles, Calif.
Application June 12, 1940, Serial No. 340,104
4 Claims. (Cl. 223—98)



1. A device for protecting a garment on a hanger having a hook, said device comprising: an open-bottom cover of flexible sheet material closed on one face and split centrally on the other face to provide two wings on said other face adapted to separate to admit said hook laterally when the cover is tilted toward said split-faced side; a stiffener reinforcing said cover and making the cover sufficiently rigid to maintain substantially its normal configuration when supported at a minor portion thereof, whereby an operator grasping a portion of the cover may

hold the cover in said tilted position; and weights attached to said wings respectively to favor separation of the wings when the cover is so tilted.

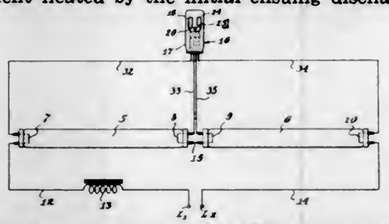
2,286,789
INTEGRAL HIGH PRESSURE LAMP AND STARTING CIRCUIT THEREFOR
Edward Charles Dench, South Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 1, 1940, Serial No. 332,626
2 Claims. (Cl. 176—124)



1. A high pressure gaseous discharge lamp comprising an enclosing envelope, a gaseous discharge lamp provided with electrodes and an ionizable medium therein supported within said envelope, leading-in conductors for supplying electrical energy to the electrodes of said lamp, an impedance supported within said enclosing envelope, a gaseous electric relay device supported within said enclosing envelope provided with an ionizable medium therein and a pair of electrodes one of which is a heat-responsive element and between which a glow discharge occurs upon the application of a potential therebetween, and operable upon heating of said heat-responsive element by the ensuing glow discharge to cause extinguishment of the latter and to connect said impedance across said leading-in conductors to short-circuit said lamp, and said gaseous electric relay device being operable upon cooling of said heat-responsive element to interrupt the short-circuit of said lamp and to disconnect said impedance from across said leading-in conductors to cause a discharge between the electrodes of said lamp; and a thermo-expansive element normally connecting said impedance and said gaseous electric relay device and operable upon heating by said discharge lamp during operation thereof to disconnect said impedance and said gaseous electric relay device to prevent the heat from said lamp causing undesired operation of said gaseous electric relay device with inadvertent short-circuiting of said lamp.

2,286,790
STARTING CIRCUIT FOR FLUORESCENT LAMPS
Edward Charles Dench, South Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 4, 1940, Serial No. 333,307
6 Claims. (Cl. 176—124)

1. An electric circuit for starting and operating at substantially unity power factor a plurality of gaseous electric discharge lamps provided with electrodes adapted to be heated to an electron emitting temperature from a source of electrical energy and having an ionizable medium therein comprising a source of electrical energy for energizing said lamps, an inductance element interposed between said source and one of the electrodes of one of said lamps, and means for connecting the electrodes of all of said lamps in series to cause heating of said electrodes to an electron emitting temperature comprising an auxiliary discharge device provided with a pair of electrodes therein for each discharge lamp in the series and between which a discharge occurs upon the application of a potential from said source, one electrode of each pair having a heat responsive electron emitting element heated by the initial ensuing discharge



therebetween, and one of said heat responsive elements being operable to engage the other electrode of its respective pair to extinguish said discharge and to cause a momentary discharge between the other heat responsive element and the respective electrode of its pair with attendant engagement thereof and extinguishment of said momentary discharge to complete a series heating circuit for the electrodes of said lamp, and said pairs of electrodes being operable to thereafter interrupt said heating circuit and cause an attendant voltage surge from said inductance element for initiating a discharge in all of said series connected discharge lamps.

2,286,791
YARN TREATING PROCESS
Joseph B. Dickey and James G. McNally, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application November 26, 1937, Serial No. 176,685
2 Claims. (Cl. 8—142.5)

1. The process of conditioning yarn composed of or containing cellulose acetate to render it more amenable to textile operations including knitting, weaving, spinning, and the like, which comprises applying thereto a lubricating and softening composition containing as its essential lubricating and softening component acetone glycerol β-ethoxyethyl ether.

2,286,792
YARN CONDITIONING PROCESS AND COMPOSITION THEREFOR
Joseph B. Dickey and James G. McNally, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application February 24, 1940, Serial No. 320,718
3 Claims. (Cl. 252—8.8)

3. A textile yarn conditioning agent for rendering yarns composed of or containing an organic derivative of cellulose more amenable to textile operations including knitting, weaving, spinning, carding, drawing and the like, containing as its essential lubricating and anti-static component diethylcyclohexylamine salt of phosphinated stearyl-palmityl xylyl ketone.

2,286,793
YARN CONDITIONING PROCESS AND COMPOSITION THEREFOR
Joseph B. Dickey, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application March 23, 1940, Serial No. 325,576
3 Claims. (Cl. 252—8.8)

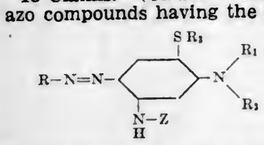
3. A conditioning agent for rendering yarns composed of or containing an organic derivative of cellulose more amenable to textile operations including knitting, weaving, spinning, carding, drawing and the like, containing as its essential lubricating and anti-static component dimyristylamine phosphate.

2,286,794
YARN CONDITIONING PROCESS AND COMPOSITION THEREFOR
Joseph B. Dickey and James G. McNally, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application October 9, 1940, Serial No. 360,451
18 Claims. (Cl. 252—8.8)

1. The method of eliminating the tendency of yarns, filaments or fibers to accumulate charges of static electricity, which comprises applying thereto a composition containing as its essential anti-static component a salt of an acid of phosphorus selected from the group consisting of the alkyl phosphonic and phosphinic acids in which the alpha carbon atom of the alkyl group is devoid of hydroxyl groups.

2,286,795
AZO COMPOUNDS AND MATERIAL COLORED THEREWITH
Joseph B. Dickey and James G. McNally, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application August 22, 1941, Serial No. 407,900
13 Claims. (Cl. 260—205)

2. The azo compounds having the formula:

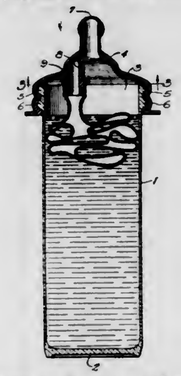


wherein R represents the residue of a member selected from the group consisting of a benzene nucleus, an azobenzene nucleus and a naphthalene nucleus, R_1 represents an alkyl group, R_2 represents a member selected from the group consisting of hydrogen and an alkyl group, R_3 represents a member selected from the group consisting of an alkyl group, a cycloalkyl group, an aralkyl group, a short chain unsaturated aliphatic hydrocarbon group, an aryl group and a furyl group and Z represents an acyl group.

2,286,796
PURIFICATION OF N-METHYL-P-AMINOPHENOL
Arthur W. M. Dickins and Lewis J. Behrndt, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application August 9, 1941, Serial No. 406,204
2 Claims. (Cl. 260—574)

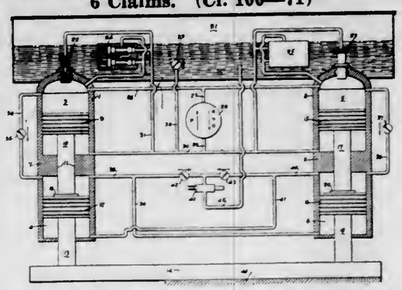
1. In a process for purifying crude N-methyl-p-aminophenol obtained by condensing methyl amine with hydroquinone and containing N,N'-dimethyl-p-phenylenediamine, the step which comprises chilling an aqueous solution of the crude N-methyl-p-aminophenol in the form of its alkali metal salt until N,N'-dimethyl-p-phenylenediamine separates out from the solution.

2,286,797
NURSING BOTTLE
Francisco M. Duerme, Chicago, Ill.
Application June 21, 1940, Serial No. 341,621
2 Claims. (Cl. 215—11)



1. In a device of the class described, a bottle having an opening at one end in combination with a nursing nipple having a discharge opening, a tubular member integrally formed on the inner wall of said nipple and having an unobstructed vent opening extending from the exterior of said nipple and into the interior of said tubular member, and a collapsible pouch having a mouth, said pouch adapted to be inserted into the interior of said bottle and the mouth thereof stretched over and frictionally secured to said tubular member, said vent and tubular member forming an open, unobstructed passage between the exterior of said nipple and the interior of said pouch; all constructed and arranged to cause an even discharge flow of liquid in drops from the bottle when the nipple is compressed and the bottle inverted.

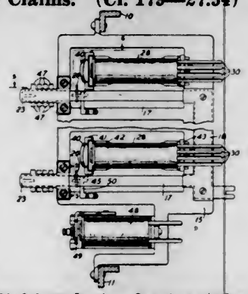
2,286,798
HYDRAULIC CIRCUIT FOR PRESS BRAKES
Paul E. Flowers, Mount Gilead, Ohio, assignor to The Hydraulic Development Corp., Inc., Wilmington, Del., a corporation of Delaware
Application May 16, 1940, Serial No. 335,596
6 Claims. (Cl. 100—71)



1. In combination, a plurality of spaced cylin-

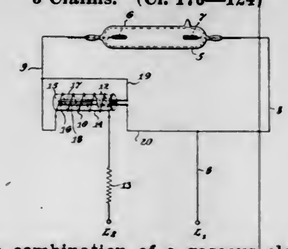
der piston assemblies connected with a common platen or beam adapted to act on a workpiece, each of said cylinder piston assemblies comprising a plurality of double-acting pistons in tandem arrangement, a pressure fluid source adapted to supply pressure fluid to said cylinder piston assemblies, and conduit means connecting one side of one piston of each cylinder piston assembly with the opposite side of a corresponding piston of another cylinder piston assembly.

2,286,799
SWITCHING MECHANISM
Kenneth L. Frederick, Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application August 2, 1940, Serial No. 349,672
8 Claims. (Cl. 179—27.54)



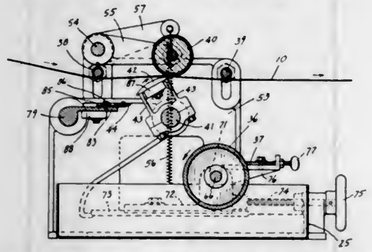
1. In a switching device, horizontal and vertical rows of contacts, with one set of vertical contacts and two sets of horizontal contacts at each cross-point, two magnets for each cross-point, each having two windings, means for first energizing the primary windings of one each of the two magnets of a horizontal row of magnets, then energizing the secondary windings of a vertical row of magnets comprising the two magnets at each cross-point, for fully energizing the magnet having its primary winding energized at the cross-point at which said magnet is located in the horizontal row and in the corresponding vertical row and then deenergizing the said primary windings, and means responsive to said full energization of said magnet for closing a connection between the corresponding horizontal and vertical sets of contacts, said energization of the secondary winding of said magnet at said cross-point being sufficient to maintain said magnet fully operated.

2,286,800
TIME RELAY FOR FLUORESCENT LAMPS
Daniel S. Gustin, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 30, 1940, Serial No. 326,892
3 Claims. (Cl. 176—124)



1. The combination of a gaseous electric discharge lamp provided with electrodes therein between which a discharge occurs upon the application of electrical energy thereto, a source of electrical energy for energizing said lamp, and an inductance element having its winding connected to said source and to one of the electrodes of said lamp, said inductance being wound upon a core constituting a pair of normally closed magnetizable contacts enclosed in an evacuated container, one of which is connected to one end of the winding of said inductance for initially short-circuiting said lamp and operable upon the flow of current through said inductance to eliminate the short-circuit condition of said lamp and to cause a high voltage starting surge to be supplied by said inductance to said lamp and said contacts to be maintained in an open position during operation of said lamp by the flow of current through said inductance.

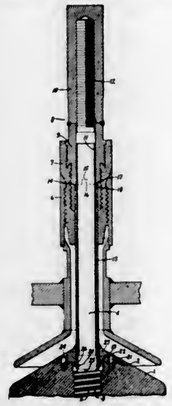
2,286,801
APPARATUS FOR APPLYING MOISTURE RESISTANT MATERIAL TO BAGS
Burton A. Hannewald, Indianapolis, Ind., and Anson M. Keller, Ferguson, Mo., assignors to Bemis Bro. Bag Co., Indianapolis, Ind., a corporation of Missouri
Application June 6, 1940, Serial No. 339,102
8 Claims. (Cl. 91—50)



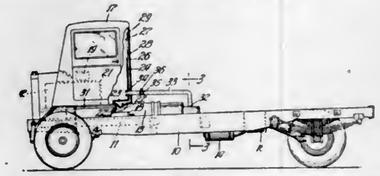
1. An apparatus for spotting a continuous web of bag making paper with a moisture resistant material, including an applicator shoe having an effective surface of the shape and area of the spot to be applied, a rotating shaft, means for moving said web and rotating said shaft in timed relation, an arm secured to said shaft and carrying said shoe having a length determined by the length of the bag made from said web, a container for said material, means in said container for maintaining said material in a molten state, a feeding cylinder rotatable in said container and bath driven by said driving means in feeding relation with the surface of said shoe, a cam driven in timed relation with the said applicator shoe, a rock shaft actuated by said cam, a doctor blade, and means adapted to adjustably support said blade on said rock shaft adjacent the path of movement of said shoe as it approaches the paper web, said cam acting to rock said blade for moving it away from the path of the shoe while the fore part thereof passes and moving it to adjacent the trailing end of said shoe for removing excess material therefrom.

2,286,802
LOCKING MEANS FOR ANODE STRUCTURES
Carl C. Herskind, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application November 21, 1941, Serial No. 419,918
4 Claims. (Cl. 250—27.5)

1. In combination, an insulating member for an anode seal, a metal member projecting within said insulating member, an anode tip, an anode stem screwed at one of its extremities to said metal member, and at its other extremity to said anode tip, and means to prevent rotation of said anode tip with respect to said metal member, said means including a member extending between said tip and a predetermined point of said metal member and disengageably connected at its opposite extremities respectively to said tip and to said metal member at said predetermined point to lock disengageably said stem to said metal member and to said anode tip.



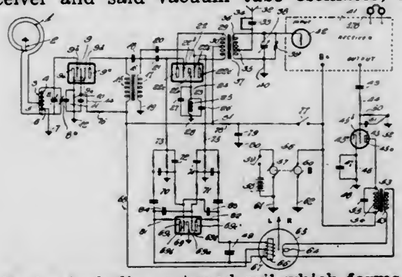
2,286,803
TRUCK
Harry B. Holthouse, Chicago, Ill.
Application June 24, 1940, Serial No. 342,013
11 Claims. (Cl. 180—54)



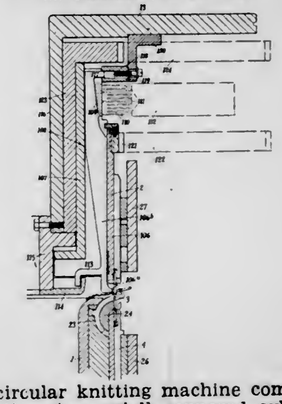
1. A vehicle including a generator which draws a large amount of air for self-cooling, a vehicle body, a duct from the interior of said body to said generator to ventilate such generator by said air and to insure a relatively clean supply of air from said generator, a passage for said air independent of said body, and means for controlling the division of air flow from said body and from said passage.

2,286,804
RADIO COMPASS
Frederick J. Hooven, Dayton, Ohio, assignor to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application February 24, 1940, Serial No. 320,715
2 Claims. (Cl. 250—11)

2. In a radio compass system, a directional antenna, a vacuum tube oscillator, a modulator responsive to the combined outputs of said directional antenna and said vacuum tube oscillator, a non-directional antenna, a receiver responsive to the combined outputs of said non-directional antenna and said modulator, an indicator responsive to the combined outputs of said receiver and said vacuum tube oscillator, said indicator including a tuned coil which forms the oscillatory circuit for said vacuum tube oscillator.



2,286,805
CIRCULAR KNITTING MACHINE
John Cyril Herbert Hurd and Henry Harold Holmes, Leicester, England, assignors to Wildt and Company Limited, Leicester, England, a British company
Application May 5, 1941, Serial No. 391,962
In Great Britain June 4, 1940
11 Claims. (Cl. 66—13)

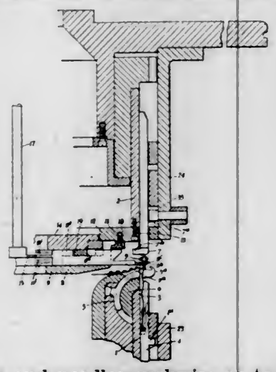


1. A circular knitting machine comprising, in combination, two axially opposed cylinders, independent needles operable in each of said cylinders, a supplementary cylinder arranged within said opposed cylinders, a further set of independent needles operable in said supplementary cylinder, means for feeding yarn to the needles, and means for operating the needles in the respective cylinders.

2,286,806
CIRCULAR KNITTING MACHINE OF THE DOUBLE AXIALLY OPPOSED NEEDLE CYLINDER TYPE
John Cyril Herbert Hurd and Henry Harold Holmes, Leicester, England, assignors to Wildt and Company Limited, Leicester, England, a British company
Application May 15, 1941, Serial No. 393,614
In Great Britain June 4, 1940
19 Claims. (Cl. 66—14)

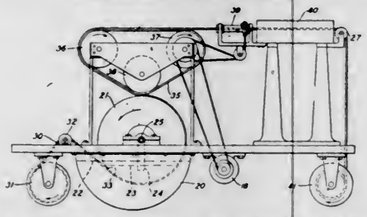
1. A circular knitting machine comprising, in combination, axially opposed needle cylinders, needles in said cylinders, means for supplying yarn to said needles, means for operating said needles to form loops from said yarn, instrumentalities associated with said needles and over

which some of the loops are drawn, and means for effecting co-operative operation of instru-



mentalities and needles suchwise as to enable a loop to be transferred laterally from any desired instrumentality to at least one adjacent needle.

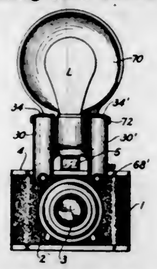
2,286,807
METHOD OF MAKING INSULATED ELECTRICAL CONDUCTORS
Vaughn L. Johannessen, Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application September 15, 1938, Serial No. 230,030
3 Claims. (Cl. 92—41)



3. A method of making an insulated electrical conductor which method comprises steps of mixing together about 6 parts by weight of paper pulp and about 3 parts by weight of a powdered solid condensation product of cashew nut oil having a melting point from 180° F. to 200° F. by beating the same together in about 191 parts by weight of water to disperse the pulp fibers in the water and to coat each fiber with grains of the powdered product, forming from the resulting pulp suspension a substantially cylindrical sheath about the strand, and so heating the sheathed strand as to drive off moisture from the pulp and to melt the grains of powder on each of the felted fibers into a coating substantially superficially covering but not impregnating each fiber individually.

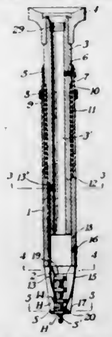
2,286,808
FLASHLIGHT SYNCHRONIZING APPARATUS FOR CAMERAS
Miller R. Hutchison, Jr., Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application April 24, 1940, Serial No. 331,431
6 Claims. (Cl. 67—29)

1. For use with a photographic camera having a built-in flash synchronizing arrangement including two separate switch contacts within the camera adapted to be brought into engagement upon operation of the shutter, a flashlight unit comprising a pair of spaced battery housings, a terminal associated with each of said housings, a battery in each of said housings and disposed so that the positive side of one battery engages the terminal of the housing in which it is contained, and the negative side of the other battery engages the terminal in the housing in which it is contained, a partition extending between, and connected to, each of said housings and provided with a recess, an electrical socket in said recess adapted to receive a flash lamp, means for connecting said batteries and socket



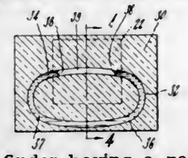
in series, said means including a pair of contacts each electrically connected to a different one of the socket contacts, and each pivotally connected to one of said housings to move to and from an operative position wherein it electrically engages the side of the battery opposite to that engaged by the terminal in the housing with which it is associated and confines the battery within its housing, and means for detachably connecting said unit to the camera, said means being electrically connected to said terminals of said unit and adapted to automatically connect said terminals to said switch contacts in the camera when the unit is mounted on said camera.

2,286,809
METHOD OF APPLYING SCREWS TO WORK
Miller R. Hutchison, Jr., Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Original application November 28, 1939, Serial No. 306,505. Divided and this application April 30, 1940, Serial No. 332,572
4 Claims. (Cl. 29—84)



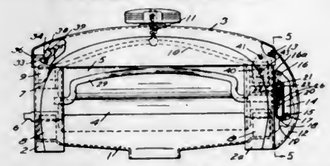
1. A method of applying screws to work which comprises utilizing a stick of coaxially arranged interconnected screws, driving an end screw into the work by rotating the next adjacent screw and continuing such driving movement until the interconnection between the driven screw and the driving screw is broken.

2,286,810
LEVEL INDICATOR FOR VIEW FINDERS
Clarence W. Ingels, St. Albans, N. Y.
Application April 23, 1940, Serial No. 331,119
4 Claims. (Cl. 88—1.5)



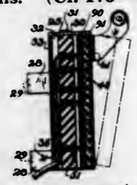
1. In a view finder having a pair of spaced lenses, a level indicator adjacent to one of said lenses comprising a plate of transparent material having a duct therein formed in a closed curve, the upper part of said duct being arranged to extend across the used portion of said one lens and having plane side walls in planes perpendicular to the axis of said one lens, and a quantity of liquid partially filling said duct, the cross-section of the upper part of said duct being of such area as to cause said liquid to terminate in menisci having an empty space between them in the upper part of the duct.

2,286,811
WRINGER AND THE LIKE
Walter L. Kauffman, II, Erie, Pa., assignor to Lovell Manufacturing Company, Erie, Pa., a corporation of Pennsylvania
Application October 5, 1939, Serial No. 298,097
7 Claims. (Cl. 68—263)



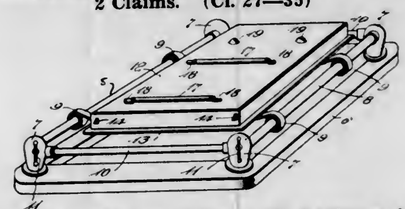
1. In a wringer or the like, the combination of a frame; rolls mounted in the frame; a pressure means for the rolls; a release device releasing the pressure means; and a retarding device slowing the release movement of the release device comprising a retarding element subjected to the release movement and means compelling a back and forth movement of the element as the pressure release movement proceeds.

2,286,812
CONNECTING DEVICE FOR TABULATING MACHINES
Lincoln M. Keefe, Springfield, Mass.
Application August 9, 1938, Serial No. 223,813
3 Claims. (Cl. 173—328)



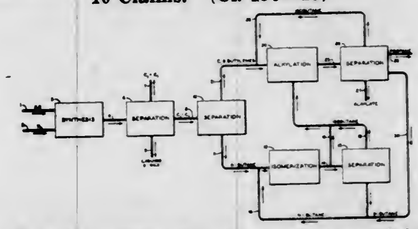
1. A connector panel comprised of a pair of plates of insulating material spaced apart from each other, a plurality of rigid contact devices formed of rivets carried in one of said plates, the heads of said rivets comprising contact surfaces lying substantially parallel to the outer face of the plates in which they are carried, a mass of non-hardening adhesive plastic filling the space between said plates, a plurality of conductors embedded in said plastic and permanently interconnecting said contact devices in a predetermined order, and means embracing the edges of said plates for securing them together to form a unitary structure.

2,286,813
GRAVE VAULT
Thomas F. Kelley, Galion, Ohio; Veronica Kelley executrix of Thomas F. Kelley, deceased
Application March 25, 1939, Serial No. 264,243
2 Claims. (Cl. 27—35)



1. In a casket receiving vault having a base and a removable casket-enclosing cover, raised anti-friction means fixedly disposed transversely of the upper surface of said base adjacent one end of the latter, said anti-friction means terminating short of the sides of said base so as not to interfere with said cover, raised, rounded-topped, casket-supporting friction means rising from said base adjacent each side thereof and having their upper rounded top ends substantially in plane with the top surface of said anti-friction means, and the lineal mid-point of said base lying between said friction and anti-friction means, whereby the anti-friction means provide for quick starting of a casket onto said base and the rounded-topped, friction means cooperate with the anti-friction means after the fashion of a brake to enable the pall bearers to readily effect lineal centering of a casket on said base, said friction and anti-friction means being adapted thereafter to mutually support said casket in spaced parallel relation to said base.

2,286,814
MANUFACTURE OF MOTOR FUEL
Lebbeus C. Kemp, Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application October 28, 1939, Serial No. 301,739
10 Claims. (Cl. 196—10)



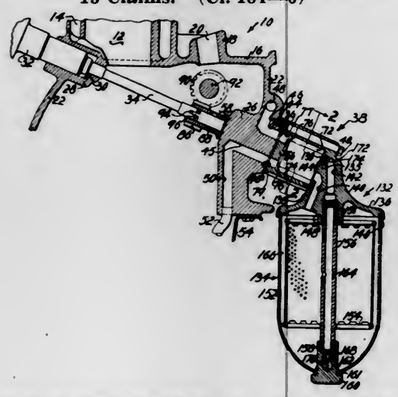
7. In a process for the manufacture of high antiknock motor fuel hydrocarbons, the steps which comprise catalytically converting a mixture of carbon monoxide and hydrogen to a synthetic hydrocarbon mixture composed mainly of hydrocarbons having from 1 to about 10 carbon atoms per molecule, the C_3—C_4 fraction of which consists essentially of aliphatic hydrocarbons composed largely of olefins and relatively free from isobutylene, separating from said synthetic mixture a fraction rich in normal butane and another fraction rich in normal butylenes, subjecting said butane rich fraction to isomerization so as to form isobutane, separately reacting the resulting isobutane with said butylene

rich fraction by contact with an alkylation catalyst maintained under alkylating conditions and in the substantial absence of isobutylene, whereby isobutane is alkylated to produce normally liquid saturated hydrocarbons having a high antiknock value and boiling within the range for motor fuel.

2,286,815
METHOD OF RECOVERING ADSORBENT MATERIALS
Wynkoop Kiersted, Jr., Scarsdale, N. Y., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application January 6, 1940, Serial No. 312,667
1 Claim. (Cl. 252—277)

In a continuous process for reconditioning spent clay used for decolorizing hydrocarbon oils and which contains coloring matter, as well as some oil, the steps comprising washing the clay with naphtha to remove retained oil, mixing the deoiled clay with a substantial volume of color-removal solvent, passing the mixture to a continuous rotary filter, forming a filtrate of solvent and dissolved coloring matter and a filter cake of decolorized clay, removing the filtrate, washing the filter cake in situ with naphtha to remove retained solvent, passing the washed cake, comprising decolorized clay from the filter to the inlet of an externally heated tubular dryer, propelling the clay through the dryer in a thinly disposed mass with repeated spilling through space, maintaining the clay within the dryer at a temperature in the range about 275–400° F., removing the clay from the outlet end of said dryer reconditioned for mixing with fresh feed oil, introducing heated inert gas near the clay outlet end of said dryer, forcing the gas through the dryer at a relatively low rate of flow countercurrently to the moving clay, exhausting the gas and naphtha expelled from the clay from the clay outlet end of said dryer, passing the exhaust vapors through a dust separator to remove entrained clay particles, thereafter cooling the vapors to condense entrained solvent, removing the condensate, heating the uncondensed gas and returning the heated gas to the clay outlet end of said dryer.

2,286,816
OIL PUMP AND FILTER
Floyd F. Kishline, Kenosha, Wis., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland
Application August 8, 1940, Serial No. 351,855
15 Claims. (Cl. 184—6)



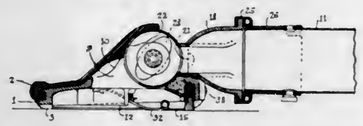
1. In combination with an oil pump having intake and discharge chambers, intake and discharge passageways communicating with said chambers, a cover for said pump defining ports communicating with said chambers, filter means secured to said cover and communicating with said ports.

2,286,817
TAMPON
William M. Knight, Minneapolis, Minn., assignor to The Personal Products Corporation, Milltown, N. J., a New Jersey corporation
Application January 4, 1940, Serial No. 312,379
8 Claims. (Cl. 128—285)



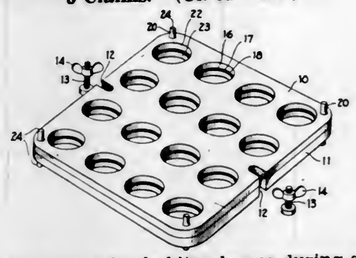
5. A tampon comprising an elongated mat of fibrous material having its fibers running lengthwise thereof, a second mat of fibrous material having its fibers running crosswise with respect to its length, said mats being placed together in flatwise relation whereby the fibers of one mat will be disposed at right angles to the fibers of the other mat, said mats being folded about a transverse line intermediate their ends and being compressed into a self-sustaining cylindrical body, the exterior of which is composed substantially entirely of cross fibers.

2,286,818
VACUUM CLEANER NOZZLE
Ward Leathers, Haworth, N. J., assignor to Quadrex Corporation, New York, N. Y., a corporation of Delaware
Application July 11, 1938, Serial No. 218,645
3 Claims. (Cl. 15—158)



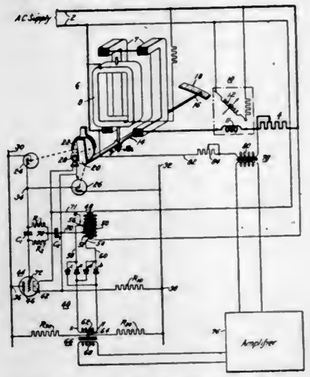
1. In a vacuum-cleaner nozzle comprising a main body portion with a nozzle opening on its under side adapted for contact at its edges with the carpet to be cleaned, a hinged attachment member, a carpet cleaning brush with its fibers extending downward supported by said main portion with the tips of its fibers normally substantially free from the carpet, and resilient means for holding said brush in said relationship adapted to permit depression of fibers of said brush into the carpet for cleaning purposes when downward pressure on the said attachment member is exerted by the operator, said means comprising a broad, flat spring, shoe-like member adapted to slide on the carpet and to yield under the strain of the said downward pressure.

2,286,819
NONREFLECTING COATING FOR GLASS
Charles M. Lee, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application September 28, 1940, Serial No. 358,845
5 Claims. (Cl. 91—12.2)



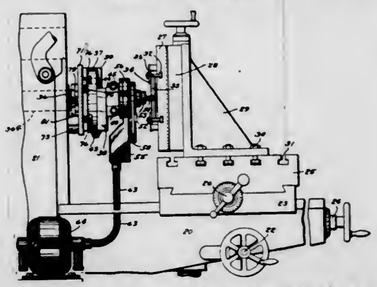
1. Apparatus for holding lenses during surface coating thereof comprising two rigid flat metal plates having similar apertures each as large as the surface area of a lens to be coated, means for clamping the plates together with the apertures aligned and means for holding a lens in alignment with each aperture and equally spaced from the outermost points of the two plates when clamped, said lens holding means consisting of a recessed portion around the inside rim of each aperture in at least one of the plates, said portions when the plates are clamped forming ring grooves whose maximum diameter in each case substantially equals that of the lens to be held and whose edges for gripping the lens are separated by the marginal thickness of the lens and are respectively spaced equal distances from said outermost points.

2,286,820
REGULATOR
Bernard E. Lenehan, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 13, 1941, Serial No. 406,673
20 Claims. (Cl. 175—183)



1. In combination, an alternating current responsive device, an alternating current source, a circuit interconnecting said source and said device, means in said circuit for normally preventing any substantial energization of said device therethrough, said means being responsive to a flow of direct current therethrough in either of opposite directions to permit energization of said device in respectively corresponding opposite phase relationships, and means responsive to variations of a controlling quantity from a predetermined value to pass a direct current through said direct current responsive means in either of opposite directions.

2,286,821
MACHINE FOR CUTTING DIES AND THE LIKE
Lloyd D. Libby, Minneapolis, Minn.
Application February 23, 1939, Serial No. 257,888
7 Claims. (Cl. 90—17)

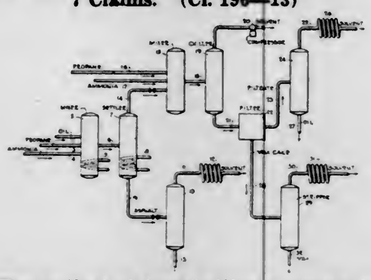


1. In a machine of the kind described, a rotary main member, a crank-acting cross head mounted on said main member for adjustments radially thereof, a tool-spindle carrier head mounted on said cross head, a tool-carrying spindle rotatively mounted on said tool-spindle carrier head, and power means connected to said tool-carrying spindle and constructed and arranged to rotate said tool-carrying spindle while the latter is subject to planetary movements, due to rotation of said main rotary member, in which the said power means for rotating said tool-carrying spindle involves a remotely connected motor with flexible driving connections to said tool-carrying spindle, said power means further including a transmission supporting head swiveled around said tool-carrying spindle, free from rotation therewith, but free to partake of the planetary and angular movements of said tool-carrying spindle.

2,286,822
RECOVERY OF CELLULOSE ESTERS FROM SCRAP
Carl J. Malm and Gustave B. Bachman, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application March 10, 1939, Serial No. 261,102
4 Claims. (Cl. 260—230)

1. A method for recovering photographic film scrap having a base of a lower fatty acid ester of cellulose which comprises treating scrap, which is free of gelatin emulsion, with an organic leaching solvent which will not dissolve or deteriorate the film base, the leaching solvent containing a small amount of a material to assist the leaching selected from the group consisting of the aliphatic and cyclo-aliphatic sulphonates and sulphates in which a hydrocarbon radical therein contains at least 10 carbon atoms, the glycols incompletely esterified with higher fatty acids, the glycerols incompletely esterified with higher fatty acids, the cation-active substituted ammonium salts, the alkyl-substituted aromatic sulphonic acids, the alkyl substituted aromatic unit containing at least 11 carbon atoms and the alkali metal and substituted ammonium salts of the higher fatty acids.

2,286,823
SOLVENT DEASPHALTING AND DEWAXING
Wallace A. McMillan, Elmhurst, N. Y., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Continuation of application Serial No. 112,495, November 24, 1936. This application July 30, 1940, Serial No. 348,435
7 Claims. (Cl. 196—13)

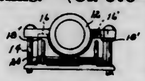


1. The method of deasphalting a mineral lubricating oil which comprises diluting the oil with about 4–6 parts of a liquefied normally gaseous petroleum hydrocarbon to 1 part of the oil, and with a small proportion of anhydrous liquid ammonia of the order of about 10% by volume of the dilute mixture and such that upon subjecting the mixture to settling at about 70 to 125° F., the volume of non-paraffinic material precipitated is substantially greater than that precipitated in the absence of the ammonia, settling the mixture under pressure sufficient to prevent vaporization of the diluent and ammonia during settling and at temperatures of about 70–125° F. to precipitate asphaltic constituents from the oil-solvent solution containing the bulk of the paraffinic and naphthenic constituents of the oil, separating the asphaltic constituents so precipitated from the oil-solvent solution, and recovering the solvent from the deasphalted oil.

2,286,824
YARN TREATING
James G. McNally and Joseph B. Dickey, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application November 26, 1937, Serial No. 176,693
11 Claims. (Cl. 8—142.5)

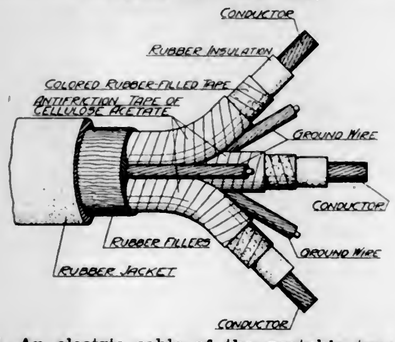
1. The process of conditioning yarn composed of or containing organic derivatives of cellulose to render it more amenable to textile operations including knitting, weaving, spinning and the like which comprises applying thereto a lubricating composition containing a 1–4 dioxane-2–3 dialkyl ether.

2,286,825
SELF-ALIGNING BEARING CONSTRUCTION
Francis E. Montgomery, Des Moines, Iowa
Application March 11, 1940, Serial No. 323,334
5 Claims. (Cl. 308—72)



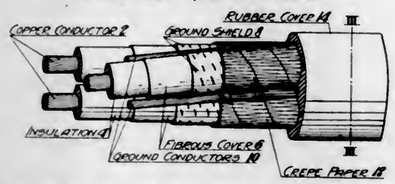
1. In a device of the class described, a bearing element having two oppositely extending arm projections on its periphery; said arm projections resting in a plane that substantially bisects the center of said bearing element, a groove on the under side of each of said arm projections, a base element, and two spaced apart parallel supporting lug elements extending from said base element for engaging said grooves, respectively for permitting the rocking movement of said bearing element relative to said base element; said lug elements extending transversely of the longitudinal axis of said bearing element.

2,286,826
PORTABLE POWER CABLE
James J. Morrison, Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application August 1, 1940, Serial No. 349,192
2 Claims. (Cl. 174—116)



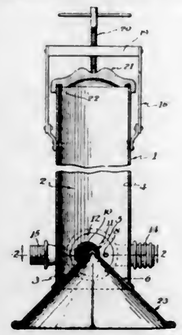
1. An electric cable of the portable type including a plurality of conductors, at least one layer of material immovably fixed over each of said conductors, rubber fillers for smoothing the cable contour, a jacket covering all said elements and pressing them toward one another, and a layer of regenerated cellulose or cellulose acetate arranged between said material and said fillers to provide antifriction surfaces for aiding the required sliding of the former relative the latter necessary for cable flexibility.

2,286,827
ELECTRIC CABLE AND METHOD OF MANUFACTURE
James J. Morrison, Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application September 24, 1940, Serial No. 358,159
7 Claims. (Cl. 174—103)



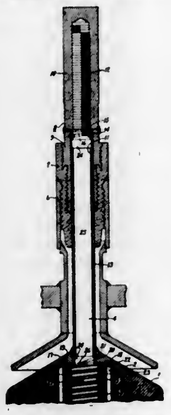
1. A cable for transmission of electric current consisting of a plurality of adjacent insulated conductors cabled together with valleys between them, a body of crepe material enveloping said conductors and having portions disposed in the valleys, an outermost jacket of thermoplastic insulating material having inwardly extended portions holding parts of the crepe material in position in the valleys between said conductors, the said crepe material being tensioned in said valleys to an appreciable extent as a result of being forced inwardly by said outer body of insulating material substantially as described.

2,286,828
APPARATUS FOR SUPPLYING SOLUBLE AGENTS TO LIQUIDS
Eugene L. Prizer, Solana Beach, Calif.
Application August 2, 1940, Serial No. 349,385
2 Claims. (Cl. 299—84)



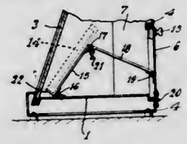
1. In an apparatus for supplying soluble agents to liquids, the combination which comprises: a container of substantially circular horizontal cross-section having a bottom wall adapted to receive and support a quantity of solid soluble agent in divided condition, the central portion of said bottom wall being higher than its marginal portion, said bottom wall sloping downwardly and outwardly from its central portion to its marginal portion; inlet means for introducing liquid into the lower portion of said container at a position upwardly removed from the marginal portion of said bottom wall and in a direction having a substantial tangential component; liquid outlet means; and a screen communicating with the lower portion of said container disposed between the interior of said container and said outlet means.

2,286,829
ANODE LOCKING MEANS
Eugene H. Reid, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application December 17, 1941, Serial No. 423,345
6 Claims. (Cl. 250—27.5)



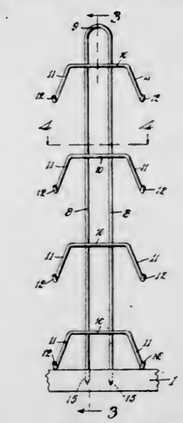
1. In combination, an insulating member for an anode seal, a metal insert projecting within said insulating member, a terminal member fastened to the outer extremity of said insert, an anode stem traversing said insulating member and said insert and screwed to said terminal member, an anode tip screwed to said stem, and means to prevent rotation of said anode tip with respect to said terminal member, said means including a member extending from said tip to the inner extremity of said terminal member to lock disengageably said last-named member to said terminal member and to said anode tip.

2,286,830
DISPLAY CASE AND SHELF THEREFOR
Paul M. Ressinger, Chicago, Ill.
Application August 15, 1940, Serial No. 352,691
5 Claims. (Cl. 312—127)



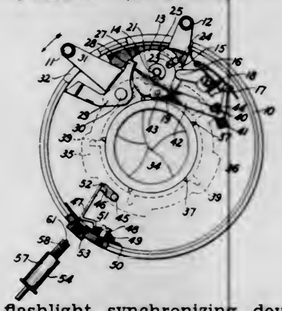
1. In combination with a display cabinet and rear door therefor, a tray support including a forward link, the forward end of which is supported on the cabinet, a rear link hinged to the door, a flexible connection between the two links, and stop means associated with said links for limiting the downward movement of said links in relation to the cabinet, and a tray movably mounted on said support.

2,286,831
DISPLAY SUPPORT
Paul M. Ressinger, Chicago, Ill.
Application April 11, 1941, Serial No. 388,057
6 Claims. (Cl. 211—71)



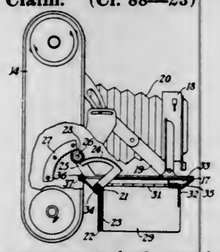
3. In a display element, a base and a rack upwardly extending from said base, said rack including a pair of laterally spaced generally upright rod sections connected at their upper ends, the base having apertures adapted to receive and support the lower ends of said rod sections, and a plurality of spaced wire supports mounted along said rods, each such support including a generally horizontal intermediate portion welded to and connecting said rod sections, and a pair of forwardly and downwardly extending fingers having end portions adapted to hold against gravity the articles to be displayed.

2,286,832
PHOTOFLASH SYNCHRONIZING DEVICE
William A. Riddell, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application September 22, 1939, Serial No. 296,113
9 Claims. (Cl. 67—29)



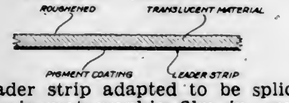
2. In a flashlight synchronizing device the combination of a photographic shutter, a shutter operating mechanism, one movable part of said mechanism adapted to constitute a first contact, a second contact mounted adjacent said shutter operating mechanism to move into and out of the path of said first contact whereby it is disposed to be engaged by said first contact when the shutter is actuated, said second contact being normally removed from the path of said first contact, means for optionally connecting each of said two contacts to opposite sides of a photo-flash bulb circuit, and means for automatically moving said second contact into the path of said first contact in response to said contacts being connected to photo-flash bulb circuit.

2,286,833
PHOTOGRAPHIC APPARATUS
Ödön Riszdorfer, Budapest, Hungary
Application July 22, 1939, Serial No. 286,019
In Hungary July 23, 1938
1 Claim. (Cl. 88—23)



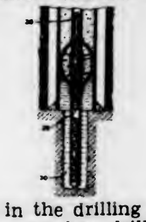
In a folding camera, a bed member movable from a vertical closed position to a horizontal position in which the camera is open for use, a photo cell pivotally mounted on the bed member for movement from a position flat against and facing said member to a position perpendicular to said member, means operative upon the movement of said member to open position for moving said cell from its flat position to its perpendicular one with respect to the bed member, said means comprising a pinion rotatably mounted on an arm secured to the bed member and positioned between and meshing with a stationary gear segment secured to the camera body and a gear segment secured to and movable with the cell and screening means for protecting the cell from laterally incident light in open camera position and for covering the cell in closed camera position, the position of the screening means being controlled by the change in position of the cell.

2,286,834
LEADERSTRIP FOR CINEMATOGRAPHIC FILM
Charles G. Rittenhouse, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application January 16, 1940, Serial No. 314,131
5 Claims. (Cl. 88—19.5)



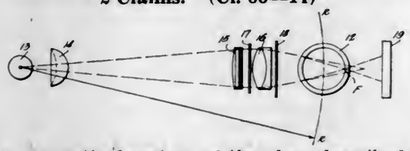
1. A leader strip adapted to be spliced to a processed cinematographic film in overlapping endwise relation and comprising a strip of translucent material, the surface of said strip adapted to be in surface contact with said film roughened to provide a surface which can be written upon, and the opposite side of said strip coated with a material for increasing the density of said strip.

2,286,835
WELL DRILLING AND COMPLETION
William W. Robinson, Los Angeles, and Sterling P. Hart, Long Beach, Calif., assignors, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application October 7, 1939, Serial No. 298,388
13 Claims. (Cl. 255—1.8)



6. The method in the drilling and completion of a well, which comprises drilling the well to the top of the area into which the liner is to be run, drilling an open-hole portion into the producing formation with the circulation of a drilling mud, replacing the drilling mud in the open-hole portion with a spotted fluid composition of high waterproofing and thin cake-forming character even when exposed to high bottom-hole temperatures of the order of 200–250° F. and above, and which cake is readily disintegrable by acid, running the liner and landing the same in the open-hole portion while maintaining the said spotted fluid composition therein, and then acid-treating the well.

2,286,836
BOTTLE INSPECTION APPARATUS
Lawrence T. Sachtleben, Camden, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 29, 1939, Serial No. 287,314
2 Claims. (Cl. 88—14)



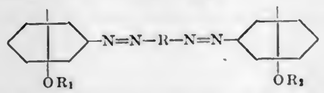
1. An optical system of the class described including a light source, a condensing lens, means for positioning a substantially cylindrical liquid filled bottle at an inspection point, a second condenser lens adjacent said inspection position for rendering the beam of light from said first condenser lens substantially parallel, and effectively cylindrical lens means located between said second condenser means and said bottle and having a radius of curvature and spacing from said bottle so related to the radius of curvature of the bottle and its contents and the index of refraction of each as to form with the said bottle and its contents an aplanatically corrected system for an image plane within the side of the said bottle opposite said lens.

2,286,837
DYE FOR COLOR PHOTOGRAPHY
Merrill W. Seymour, Richard V. Young, and Jonas John Chechak, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application May 7, 1940, Serial No. 333,808
16 Claims. (Cl. 95—2)

1. A light-sensitive photographic element comprising a support having thereon a light-sensitive emulsion layer and a gelatin layer containing a substantially non-diffusing dye formed by coupling a tetrazotized diaminotriphenylmethane with the aromatic nucleus of an aryl sulfonic acid.

2,286,838
PHOTOGRAPHIC ELEMENT CONTAINING A DISAZO DYE
Merrill W. Seymour and Jonas John Chechak, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application March 12, 1941, Serial No. 382,978
14 Claims. (Cl. 95—6)

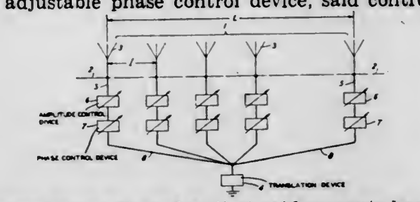
1. A photographic element comprising a support having thereon a light-sensitive layer, at least one layer comprising a water-permeable colloid and a dye having the general formula:



wherein R represents a member selected from the group consisting of a naphthyl nucleus, a dibenzyl nucleus, a diphenyl nucleus, a diphenylurea nucleus, and a stilbene nucleus, and R_1 and R_2 each represents a member selected from the group consisting of saturated alkyl groups of from 3 to 5 carbon atoms, and wherein the said nuclei contain two sulfonic acid groups as nuclear substituents.

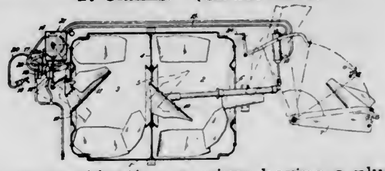
2,286,839
DIRECTIVE ANTENNA SYSTEM
Sergei A. Schelkunoff, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 20, 1939, Serial No. 310,130
7 Claims. (Cl. 250—11)

1. In combination, a linear array comprising three antenna units, the spacing between adjacent units being one-quarter wave-length, a translation device, individual lines connecting said units to said device for conveying currents between said units and device, each line including an adjustable amplitude control device and an adjustable phase control device, said control



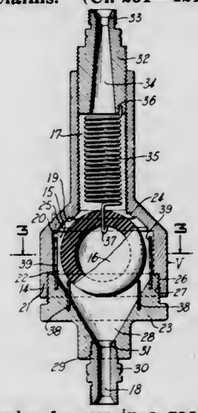
devices being adjusted so that said currents have a 1, 1.41, 1 amplitude distribution and a 0 degree, 135 degree, 90 degree phase distribution.

2,286,840
CONCRETE MIXER
Oscar Sheck, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a corporation
Application March 15, 1940, Serial No. 324,196
17 Claims. (Cl. 259—163)



1. In combination, a mixer having a plurality of mixing chambers, discharge means for said mixer movable to discharging and non-discharging positions, transfer means intermediate said mixing chambers and movable to transferring and non-transferring positions, and a batch-meter unit controlling the time of mixing in said chambers including instrumentalities for operating said transfer and discharge means to effect a return and lock of said discharge means in non-discharging position upon movement of said transfer means to transferring position.

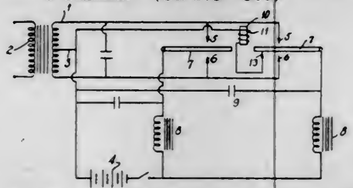
2,286,841
VALVE
George H. Smith, Kenmore, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio
Application July 20, 1939, Serial No. 285,557
7 Claims. (Cl. 251—121)



2. A check valve for use in a gas-powder mixture conduit comprising, a housing having a

chamber therein, said chamber having a substantially vertical inlet at the upper end thereof and a substantially vertical outlet at the lower end thereof aligned with said inlet, said chamber having an inside wall tapering downwardly to said outlet to provide a minimum of resistance to the passage of powder through said chamber; means providing a primary seat in said chamber adjacent to said inlet; means providing a secondary seat in said chamber adjacent to and below said primary seat; a back-pressure actuatable valve member in said chamber cooperating with said seats, said valve member being formed of resilient deformable material, said valve member being adapted to move upwardly to contact said primary seat on the occurrence of back-pressure in said chamber, and being deformable by back-pressure in said chamber after contact with said primary seat to contact said secondary seat.

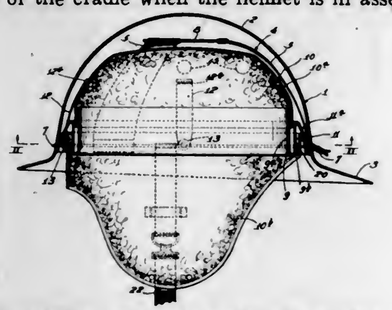
2,286,842
INVERTER CIRCUIT
Harold J. Brown, Indianapolis, Ind., assignor to Electronic Laboratories, Incorporated, Indianapolis, Ind., a corporation of Indiana
Application September 23, 1940, Serial No. 357,878
5 Claims. (Cl. 175—365)



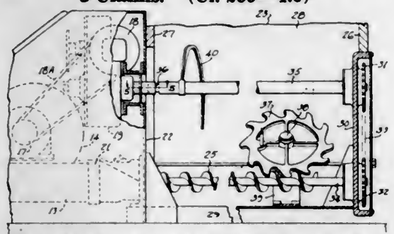
5. In an electrical system for converting direct current into alternating current, said system including a vibratory interrupter having a plurality of parallel interrupting paths each having make-and-break contact means substantially simultaneously operated during a vibratory interval for jointly supplying an interrupted direct current to the said system; the arrangement for preventing the current which is interrupted in an interrupted path incident to slight variations in the breaking of the plurality of contact means from suddenly re-establishing itself in a yet uninterrupted path during a vibratory interval of the breaking of the plurality of contact means, said arrangement comprising the combination of a transformer having input winding means connected in circuit relation with the vibratory interrupter and energized by the interrupted direct current, a capacitor connected in effective electrical current-diverting shunt relation with each of the make-and-break contact means, and inductance means for developing, in series with each of the parallel interrupting paths, an inductive impedance to the flow of the current therein, the inductive impedance in the yet uninterrupted path opposing the sudden re-establishment of the current of an interrupted path during a vibratory interval in the yet uninterrupted path, thereby preventing the damaging of the contact means.

2,286,843
SAFETY HAT
Bartholomew W. Catalane, Buffalo, N. Y., and Edward V. Karabin, Wilkinsburg, and William J. Sharbaugh, Pittsburgh, Pa., assignors to Mine Safety Appliances Company, Pittsburgh, Pa.
Application April 26, 1940, Serial No. 331,706
8 Claims. (Cl. 2—3)

1. In combination with a safety head helmet having a rigid crown and a head engaging band supported in spaced relation to an inner surface of the crown to support the helmet on the head and a head cradle attached to the helmet and positioned within the crown between the headband and the inner surface of the crown to additionally support the helmet in spaced relation to the head, of a removable inner fabric head covering disposable in a wearing position on either side of the cradle when the helmet is in assembled condition, depending fabric members attached to the inner covering, each of the members having an engageable means adaptable to support a covering below the helmet and from between the headband and the crown and the depending members and their attachment to the inner covering being arranged to accommodate wearing of the head covering on either side of the cradle while properly supporting the lower covering in proper wearing position.



2,286,844
COAL SUPPLYING MECHANISM FOR STOKERS
Haskell C. Carter, Portland, Oreg., assignor to Iron Fireman Manufacturing Company, Portland, Oreg.
Application September 13, 1937, Serial No. 163,595
3 Claims. (Cl. 259—4.6)

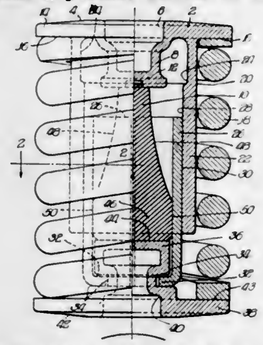


1. In a stoker, a hopper consisting of an elongated, horizontal base having standards at opposite ends thereof, a coal feeding worm disposed above said base, a horizontal drive shaft disposed above said worm and base and in the same plane therewith and journaling in said standards, means for driving said worm and said drive shaft at the end thereof farthest from the delivery end of said worm, and a hopper casing independently enclosing said base.

2,286,845
SNUBBER
Robert B. Cottrell and William S. Spieth, Chicago, Ill., assignors to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application August 24, 1939, Serial No. 291,634
20 Claims. (Cl. 267—9)

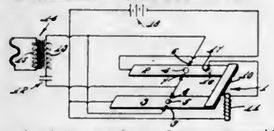
1. In a friction absorbing device, top and bottom followers, a coil spring seated therebetween,

one of said followers having a cylindrical portion sleeved within said spring, semi-cylindrical shoes received within said portion in frictional engagement therewith, interlocking means on said shoes, and said bottom follower, and a resilient member of conical form seated on said bottom follower with a portion thereof in compression



between said shoes and having abutment with said followers at its opposite ends respectively for compression therebetween, said resilient member being arranged to flow freely against said friction shoes as said device is compressed and being free of rubbing or abrasive action thereagainst.

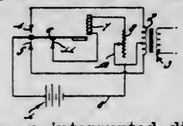
2,286,846
VIBRATOR CURRENT-CONVERTING SYSTEM
William W. Garstang, Indianapolis, Ind., assignor to Electronic Laboratories, Incorporated, Indianapolis, Ind., a corporation of Indiana
Application July 17, 1940, Serial No. 345,996
6 Claims. (Cl. 175—365)



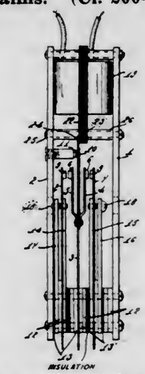
1. In an electric system for converting direct current into alternating current, said system having a transformer with input and output windings, a source of direct current supply, a series input circuit including said input winding, a capacitor and a vibratory reed switch having movable contacts on said reed cooperating with stationary contacts to alternately connect said input circuit including said input winding and capacitor with said source of direct current in opposite directions, the vibrating frequency of said reed being substantially the same as the frequency to which said series circuit is tuned to effect the opening of said series circuit substantially at the time the switch contacts are carrying a minimum current and an actuating winding for said switch energized from a source of direct current, the circuit of said winding being intermittently opened and closed by said switch.

2,286,847
VARIABLE FREQUENCY VIBRATOR CURRENT-CONVERTING SYSTEM
William W. Garstang, Indianapolis, Ind., assignor to Electronic Laboratories, Incorporated, Indianapolis, Ind., a corporation of Indiana
Application July 17, 1940, Serial No. 345,997
3 Claims. (Cl. 175—365)

1. An electric system for converting direct current into alternating current including a transformer having an input winding and an output winding, a source of direct current, a vibratory interrupter including a resilient reed having a natural period of vibration and an electromagnet supplied with energy from said direct current source and having its circuit interrupted by said reed for inducing vibrations in said reed in one direction against the normal bias of said reed to a neutral position, the movement of the reed in the opposite direction beyond its normal position being induced by its own resiliency, said interrupter supplying an interrupted direct current from said source to said input winding of a frequency corresponding to the frequency of said reed, and means for varying the frequency of the alternating current delivered by said output winding comprising manually operated means for varying the energy supplied from said direct current source to said energizing winding to modify the force exerted by said winding to overcome the natural bias of said reed and thereby change the frequency of vibration of said reed above or below its natural frequency.



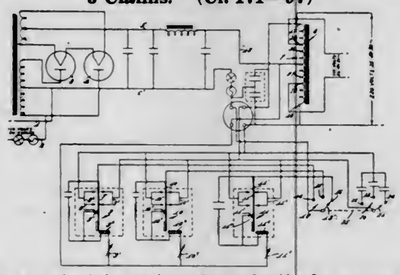
2,286,848
VIBRATOR
William W. Garstang, Indianapolis, Ind., assignor to Electronic Laboratories, Incorporated, Indianapolis, Ind., a corporation of Indiana
Application July 17, 1940, Serial No. 345,999
4 Claims. (Cl. 200—90)



1. In a vibrator reed switch, in combination, a pair of flat side plates, an electromagnet including a laminated core having a pair of legs forming pole pieces, means for supporting said electromagnet between said plates and at one end thereof with the laminae of said core disposed in planes parallel to the flat faces of said plates and with the active faces of said legs in a plane transverse to said flat side pieces, a reed, means for supporting one end of said reed between said side plates at the end thereof opposite said electromagnet with the free end of the reed extending toward said electromagnet, said free end supporting an armature with at least a portion thereof disposed between said legs and having its side edges closely adjacent the active faces of said pole pieces, said armature being normally disposed eccentric with respect to the magnetic force of said electromagnet and swingable trans-

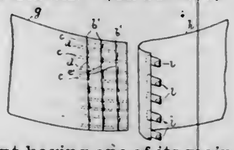
versely to the planes defined by the laminae of said electromagnet, contacts on said reed, relatively stationary contacts adapted to cooperate with said reed contacts, and means for supporting said stationary contacts between said plates.

2,286,849
VIBRATOR FREQUENCY CHANGER
William W. Garstang, Indianapolis, Ind., assignor to Electronic Laboratories, Incorporated, Indianapolis, Ind., a corporation of Indiana
Application July 17, 1940, Serial No. 346,000
3 Claims. (Cl. 171—97)



3. An electric system for selectively converting a direct current into an alternating current having any one of a plurality of frequencies including a single transformer having an input winding, a source of direct current, a plurality of vibrating interrupters, each including a resilient reed, the natural frequency of each reed being different, and an electromagnet for inducing vibrations in the reed, the vibrations so induced being different from the vibrations induced by any of the other magnets upon their respective reeds, and stationary contacts alternately engaged by said reed, selective means for connecting the energizing winding and reed of any one of said interrupters with said direct current source, simultaneously operated selective means for connecting the stationary contacts of said reed with the input windings of said transformer, and means for modifying the energy supplied to said energizing winding, and individual means for modifying the energy supplied to each energizing winding for modifying the vibration frequency of the reed actuated thereby.

2,286,850
FASTENING DEVICE FOR GARMENTS
Neta Evelyn Victoria Graham, Kenton, England
Application February 13, 1940, Serial No. 318,747
In Great Britain August 4, 1939
10 Claims. (Cl. 24—206)



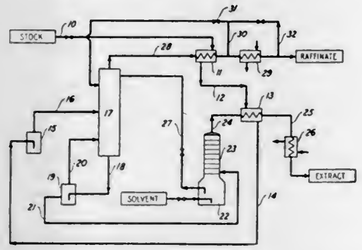
9. A garment having one of its main body walls constituting a fastening device and including a piece of fabric forming a plurality of parallel series of pockets, the pockets in each said series being arranged one behind the other; and adapted for coaction with means on another part of said garment to respectively engage pockets in each said series in such a manner as to enable the shape and size of the garment to be varied; the openings of said pockets being arranged in a direction transverse to the direction of pull.

2,286,851
FLUORESCENT LAMP
David Hess, New York, N. Y., assignor to Kate Lowenberg, New York, N. Y.
Application December 9, 1940, Serial No. 369,302
2 Claims. (Cl. 240—81)



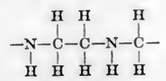
1. In fluorescent lamps, a base member comprising a casing, a transformer therein, a hollow flexible goose neck carried by the casing, cathode and anode wires leading through the goose neck to the transformer, a ray-reflecting carrier at the outer end of the goose neck, cathode and anode posts within the reflector, one at each end thereof, each post being formed with a right angular extension aperture to receive a screw bolt, the angular extension of the posts extending rearwardly of the reflector, a longitudinally extending housing at the rear of the reflector, bolts passing through the reflector and the angular extensions of the posts and secured to the housing, contacts carried by the posts within the reflector and connected to said wires, the wires being led through the said housing and a fluorescent lamp held by the reflector and having contact leads engaging said contacts, whereby the ray-reflecting carrier and lamp held thereby may be moved to various positions relatively to the transformer.

2,286,852
SOLVENT EXTRACTION OF PETROLEUM
Melvin M. Holm, San Francisco, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
Application September 16, 1938, Serial No. 230,229
16 Claims. (Cl. 196—13)



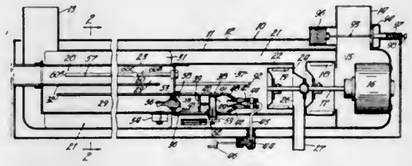
1. In the refining of petroleum oils, the method which comprises mixing the oil with a selective solvent comprising a polyethylene amine, said polyethylene amine molecule having more atoms of carbon than of nitrogen and being further

characterized by the presence of the chemical group



forming an extract phase containing a portion of said petroleum oil dissolved in the solvent and a raffinate phase comprising undissolved oil, and separating the two phases.

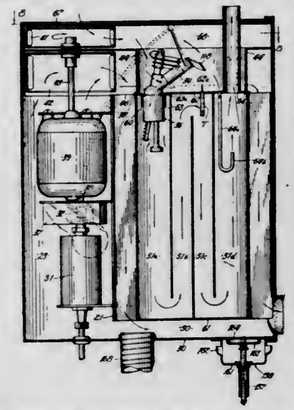
2,286,853
HEATER
Harry B. Holthouse, Chicago, Ill., assignor to Galvin Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application December 2, 1939, Serial No. 307,340
13 Claims. (Cl. 158—28)



1. In a heat generator having electrical fuel and air supply means, the combination of a combustion chamber and a fuel and air mixing chamber, a heat exchanger in said mixing chamber for heating the air and fuel to a predetermined optimum mixing temperature, arranged substantially completely across the mixing chamber and in the path of the air and fuel flow in such chamber, said heat exchanger being thermally connected with said combustion chamber, electrical means for heating said heat exchanger, an energizing circuit for said electrical heating and air and fuel supply means, and thermostatic means in said energizing circuit for controlling the operation of said electrical heating means in response to the temperature conditions of said heat exchanger, said thermostatic means being arranged to energize said air and fuel supply means when the heat exchanger is at a predetermined temperature and to de-energize the electrical heating means when the temperature of the heat exchanger has been increased above said predetermined temperature.

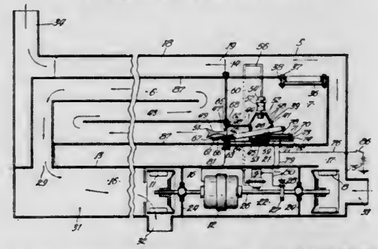
2,286,854
HEATER
Harry B. Holthouse, Chicago, Ill., assignor to Galvin Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application September 5, 1940, Serial No. 355,484
31 Claims. (Cl. 219—38)

1. In a unit heater of internal combustion type for mobile craft having a battery and a space to be heated, the combination of a combustion chamber, an air circulating passage about said combustion chamber connected at each end with said space, a by-pass valve in said passage opening to the atmosphere, electrical means for circulating air through said air passage, electrical means for supplying air and fuel to said combustion chamber, ignition means in said combustion chamber, means including an electrical heating element for conditioning the air and fuel prior to its ignition in said combustion chamber, and means in said space operatively connected with said by-pass valve to control the amount of air circulated into the space from about said combustion chamber, with said two electrical means, and the heating element and the ignition means



being operated entirely by the electrical power from said battery.

2,286,855
SUCTION HEATER
Harry B. Holthouse, Chicago, Ill., assignor to Galvin Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application May 8, 1940, Serial No. 333,971
12 Claims. (Cl. 158—28)

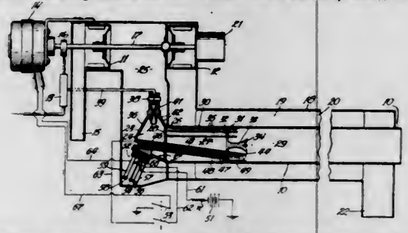


1. In a heating device, the combination of a combined preheating and igniting unit, a combustion chamber, an equalizing chamber, and an air and fuel mixing chamber, said three chambers being arranged with the equalizing chamber between said combustion and mixing chambers, perforated partitions at each end of said equalizing chamber, said preheating and igniting unit being positioned in said three chambers and extending through said partitions, one end portion of said unit acting to heat the air and fuel in said mixing chamber and the other end portion acting to ignite such heated mixture in said combustion chamber, with the central portion of said unit acting to heat the mixture during its passage through the equalizing chamber.

2,286,856
CONTROL APPARATUS
Harry B. Holthouse, Chicago, Ill., assignor to Galvin Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application March 30, 1940, Serial No. 327,065
14 Claims. (Cl. 158—28)

1. In the control system for a heating device including an air and fuel mixing chamber, electrical heating means in said mixing chamber, a circuit for said electrical heating means, means

for supplying air to said mixing chamber, means for supplying fuel to said mixing chamber, a motor for operating said air supply and fuel supply means, a circuit for said motor, thermostatic switch means in the circuit for said heating means responsive in operation to the heat from said heating means to close the same, and con-



ductor means common to said two circuits having a resistance such that a voltage drop is produced in said conductor means on closing of the circuit for said heating means, with said voltage drop varying the speed of the motor to automatically decrease the amount of air and fuel supplied to said mixing chamber concurrently with the closing of the circuit for said heating means.

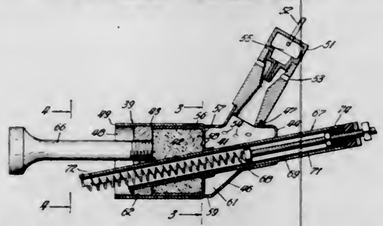
2,286,857

LIQUID FUEL CONDITIONING MEANS

Harry B. Holthouse, Jr., Chicago, Ill., assignor to Galvin Manufacturing Corporation, Chicago, Ill., a corporation of Illinois

Application July 28, 1941, Serial No. 404,410

15 Claims. (Cl. 158—28)



1. In a heater of internal combustion type, the combination of a combustion chamber, a liquid fuel vaporizing chamber in operative association with said combustion chamber, a vertical wall portion between said vaporizing and combustion chambers perforated over the upper portion and imperforate over the lower portion thereof, said vaporizing chamber having a wall portion adjacent to but inclined away from said vertical wall portion to form a fuel trough with said imperforate plate portion at the bottom of said vaporizing chamber, means for heating said vaporizing chamber, and means for supplying air and fuel to said vaporizing chamber, said fuel being directed toward said inclined wall portion and deflected against said vertical wall portion so as to be substantially completely vaporized prior to its passage out of said vaporizing chamber into said combustion chamber, with any raw particles of fuel being collected in said fuel trough to be heated and vaporized.

2,286,858

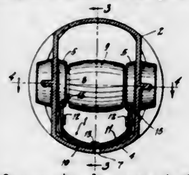
PISTON EXPANDER

Walter C. Knoebel, Kirkwood, Mo., assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo., a corporation of Delaware

Application October 30, 1941, Serial No. 417,055

4 Claims. (Cl. 309—12)

1. A piston expander comprising a base part and a skirt engaging part, said base part being attached pivotally to said skirt engaging part and being arranged eccentrically thereon to cause



an expansive force to be exerted against said piston skirt when said parts are moved into operative position.

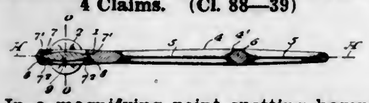
2,286,859

MAGNIFYING POINT SPOTTING HAMMER

Allan M. Lake, Detroit, Mich., assignor to The L. S. Starrett Company, Athol, Mass., a corporation of Massachusetts

Application May 8, 1941, Serial No. 392,471

4 Claims. (Cl. 88—39)



1. In a magnifying point spotting hammer, a head including a pair of spaced axially alined oppositely disposed striking terminals, a handle joining said head midway of said terminals with its axis at right angles to the axis of said terminals, said head having an aperture, and a lens supported in said aperture to lie in a plane inclusive of said axes, the peripheries of said terminals and the end portion of said handle establishing a three-point support for said hammer when the hammer is placed either side up on a plane surface and spacing the lower face of the lens a substantial distance from said plane surface.

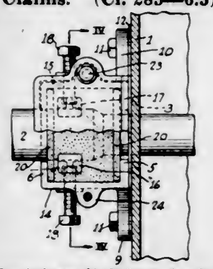
2,286,860

TRACK SWITCH BOX STUFFING BOX

Frederick C. Lavarack, Montclair, N. J., assignor to Railroad Accessories Corporation, New York, N. Y., a corporation of New York

Application December 5, 1938, Serial No. 243,922

9 Claims. (Cl. 285—6.5)



1. A track electric switch box, including in combination: a hollow body including two spaced side walls each formed with a cut away portion opening in a top edge of a wall whereby the hollow body may be placed about a conductor in place entering a side wall of a track switch box and may receive water repellent heat plastic material to surround the periphery of the conductor and hold it immovable, means to prevent the heat plastic material from running out at the cut away portion and means to secure one of the side walls water tight against a side wall of a switch box whereby water is prevented from entering the switch box along the conductor.

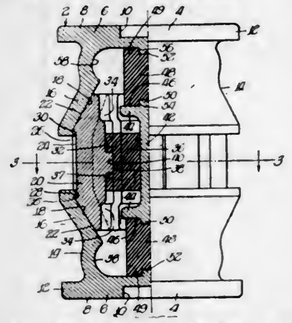
2,286,861

SNUBBER

David M. Light, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey

Application March 23, 1940, Serial No. 325,542

30 Claims. (Cl. 267—9)



1. In a friction absorbing device, opposed end followers having outwardly flaring housings presenting internal tapering friction surfaces adjacent their open ends, a floating rigid member, pads of resilient material interposed between the ends of said rigid member and said followers for spacing said followers apart, a resilient member surrounding said rigid member, a plurality of arcuate friction shoes urged into engagement with said tapering surfaces by said resilient member, and means on said followers and said shoes retaining said device in assembly.

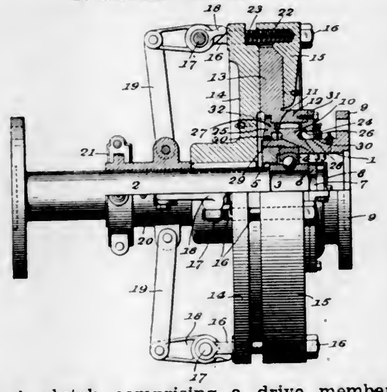
2,286,862

CLUTCH

Donald B. Livingston, Beverly, Mass., assignor to Kinney Manufacturing Company, Jamaica Plain, Mass., a corporation of Massachusetts

Application January 27, 1941, Serial No. 376,051

15 Claims. (Cl. 192—68)



1. A clutch comprising a drive member, a driven member and means to couple said members, said coupling means comprising a backing plate and a slidable clamping plate carried by one of said members, and a clutch plate intermediate said first named plates, a gear carried by said drive member, said clutch plate including a hub having an axial bore grooved to receive the teeth of said gear to establish a spline slidably locking said clutch plate to said drive member, rings attached to each end of said hub to define with said gear a pair of annular chambers and relatively restricted passages in communication with said spline, said chambers being adapted to hold, when the members are at rest, a sufficient volume of a viscous fluid to fill under the influence of centrifugal force the voids in said spline to eliminate back lash productive of chatter and increased back lash.

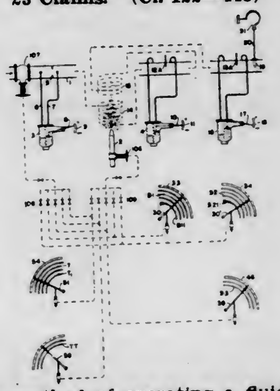
2,286,863

CONTROL SYSTEM

John F. Luhrs, Cleveland Heights, Ohio, assignor to Bailey Meter Company, a corporation of Delaware

Application September 5, 1940, Serial No. 355,446

23 Claims. (Cl. 122—448)



13. The method of operating a fluid treating system having a once through flow path, which includes, establishing electrical impedance values each representative of a variable condition of the flowing fluid, continuously interrelating such values and thereby establishing an electrical impedance value representative of the density of the flowing fluid as it is being treated, establishing an optimum density for the fluid, and so controlling the treatment by the use of the established actual electrical impedance value as to maintain the desired optimum density.

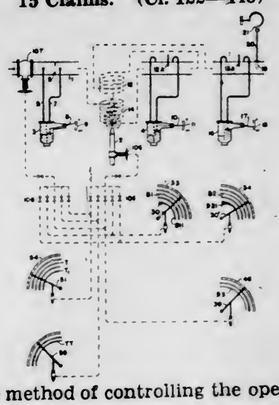
2,286,864

MEASURING AND CONTROLLING SYSTEM

John F. Luhrs, Cleveland Heights, Ohio, assignor to Bailey Meter Company, a corporation of Delaware

Application September 23, 1940, Serial No. 357,848

15 Claims. (Cl. 122—448)



6. The method of controlling the operation of a

fluid heater having a once through fluid flow path, which includes, establishing electrical impedance values each representative of a variable condition of the flowing fluid, continuously interrelating such values and thereby determining an electrical impedance value representative of the time of detention of the fluid being heated, utilizing such determined value in ascertaining the time of detention of the fluid in the heater, establishing an optimum time of detention for the fluid in the heater, and so controlling both the heating and the rate of fluid flow through the path by use of the ascertained actual time of detention as to maintain the desired optimum time of detention.

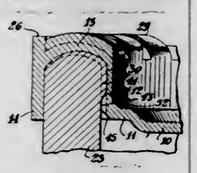
2,286,865

DIE FOR FORMING BOTTLE CAPS

Harold W. Martin, Malverne, N. Y., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del., a corporation of Delaware

Application August 5, 1939, Serial No. 288,507

2 Claims. (Cl. 18—35)



2. A die for forming milk bottle caps or the like having a diaphragm and a pouring lip housing provided with an inner sealing flange, said die comprising a lower corrugation ring adapted to form the pouring lip housing and an upper plunger adapted to seat therein for cupping the blank, said lower corrugation ring having an inner cylindrical surface with bosses formed on the upper part thereof of a length less than that of said inner sealing flange to form grooves in the outer surface of said sealing flange, said upper plunger having elongated recesses formed on the lower edge thereof each registering with a plurality of said bosses to form an elongated recess in said cap registering with the corresponding grooves in said sealing flange.

2,286,866

MAGNESIUM BASE ALLOY

John C. McDonald, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application December 23, 1940, Serial No. 371,370

2 Claims. (Cl. 75—168)

1. A magnesium base alloy containing from about 0.1 to 0.7 per cent of cerium, from 0.05 to 0.5 per cent of calcium, from 3 to 7 per cent of cadmium, and from about 1.5 to 2.5 per cent of manganese, the balance being magnesium.

2,286,867

MAGNESIUM BASE ALLOY

John C. McDonald, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application December 23, 1940, Serial No. 371,372

2 Claims. (Cl. 75—168)

1. A magnesium base alloy containing from 0.1 to 0.7 per cent of cerium, 0.05 to 0.5 per cent of calcium, and from 3.0 to 7.0 per cent of cadmium, the balance being magnesium.

2,286,868

MAGNESIUM BASE ALLOY

John C. McDonald, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application December 23, 1940, Serial No. 371,373

3 Claims. (Cl. 75—168)

1. A magnesium base alloy containing from 0.01 to 1 per cent of cerium, from 0.01 to 3 per cent of manganese, and from 1 to 12 per cent of thallium, the balance being magnesium.

2,286,869

MAGNESIUM BASE ALLOY

John C. McDonald, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application December 23, 1940, Serial No. 371,378

4 Claims. (Cl. 75—168)

1. A magnesium base alloy containing from 0.4 to 12 per cent of aluminum, from 0.01 to 1 per cent of cerium, and from 1 to 15 per cent of thallium, the balance being magnesium.

2,286,870

MAGNESIUM BASE ALLOY

John C. McDonald, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application December 23, 1940, Serial No. 371,379

2 Claims. (Cl. 75—168)

1. A magnesium base alloy containing 0.01 to 1 per cent of calcium, from 0.01 to 1 per cent of cerium, and from 1 to 15 per cent of thallium, the balance being magnesium.

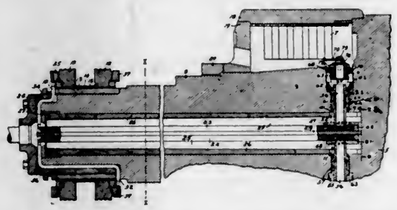
2,286,871

LEAD CONNECTION FOR DYNAMOELECTRIC MACHINES

Soren H. Mortensen, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application August 3, 1940, Serial No. 350,825

13 Claims. (Cl. 171—252)



1. In combination in a dynamo-electric machine, a rotor having a winding thereon and a shaft provided with an axial bore, a lead connection from said winding and comprising a conducting element extending through a radial aperture in the bored portion of said shaft and spaced and insulated from the wall of said aperture, and a conducting element disposed longitudinally within the bore of said shaft and insulated therefrom, and means for securing said second conducting element in fixed position within the bore of said shaft, said securing means comprising a multiple section clamping element surrounding said second conducting element, and means associated with the wall of the bore in

said shaft for rigidly securing said clamping element and said second conducting element in position.

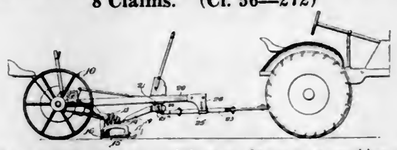
2,286,872

MOWER

Charles T. Ray, Louisville, Ky., assignor to B. F. Avery and Sons Company, Louisville, Ky., a corporation of Delaware

Application January 11, 1941, Serial No. 374,128

8 Claims. (Cl. 56—272)



1. A mower comprising a frame, a cutter bar, a draft means, means for connecting the draft means to the frame to constrain its movement to the line of draft means connecting the draft means and the cutter bar to place a downward pressure on the cutter bar, and means acting to divide the draft force between said connecting means when force is applied to the draft means in the line of draft.

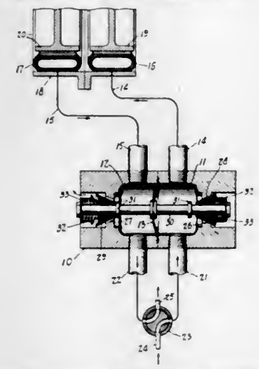
2,286,873

CONTROLLER FOR MULTIPLE CLUTCHES

Daniel M. Schwartz, Pittsburgh, Pa., assignor to The Falk Corporation, Milwaukee, Wis., a corporation of Wisconsin

Application April 4, 1941, Serial No. 386,767

6 Claims. (Cl. 192—87)



1. The combination with two fluid pressure receiving members, of means for supplying fluid pressure to either of said members alternatively and for opening the other of said members to exhaust, and vent means for preventing transmission of fluid pressure to either of said members until a time interval after the other of said members has been opened to exhaust.

2,286,874

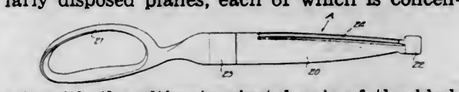
METHOD OF MAKING PINKING SHEARS

David L. Schwartz, New York, N. Y., assignor, by mesne assignments, to Samuel Briskman, New York, N. Y.

Application July 18, 1940, Serial No. 346,090

10 Claims. (Cl. 76—104)

1. The method of making serrated cutting edges upon the blades of pinking shears, which method consists in forming in a blade blank the ultimate pivotal axis of the blade, milling teeth in the blade blank, lapping cutting edges on each of said teeth, said milling and lapping operations being separately performed in angularly disposed planes, each of which is concentric with the ultimate pivotal axis of the blade and with the longitudinal axis of the blade blank disposed in right angular relation to the ultimate pivotal axis of the blade in each of said planes.



2,286,875

MANUFACTURE OF SULPHURIC ACID

Herbert P. Scullin, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application September 4, 1940, Serial No. 355,307

4 Claims. (Cl. 23—172)

1. A process of producing a substantially clear sulphuric acid solution from a turbid mixture obtained by mixing fresh Glover tower sulphuric acid and concentrated sulphuric acid produced in the contact process, which comprises heating the turbid mix of the acids to a temperature and for a time sufficient to render the mixed solution substantially free of turbidity.

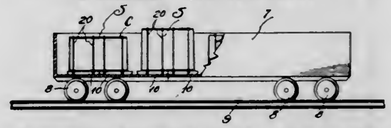
2,286,876

SHIPPING BLOCK

Trafton D. Smith, Pontiac, Mich.

Application October 24, 1940, Serial No. 362,503

3 Claims. (Cl. 105—367)



1. A metallic shipping block, H-beam shape in cross section with one edge of the upper flange turned downwardly, sections cut from the web of said block at the ends and adjacent the lower flange to permit the ends of the lower flange to be upturned to form a skid, spaced apart transversely disposed slits in the one edge of the upper flange, and spaced apart openings in the web of said block.

2,286,877

X-RAY PROTECTIVE GLOVE

Larry Sternlicht, Brooklyn, N. Y.

Application September 24, 1940, Serial No. 358,089

3 Claims. (Cl. 250—108)



1. An X-ray protecting glove, comprising a glove body, cloth material lining said glove body, a leather casing engaged over said glove body, and said glove body consisting of a heavy sheet

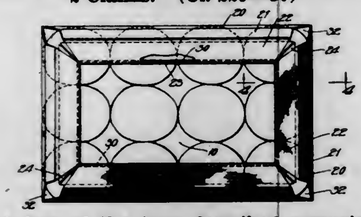
rubber containing lead and having seams joining sections thereof, each seam comprising recessed edge portions of said sections, and a rubber filler strip extended between said recessed edge portions and vulcanized thereto.

2,286,878
ADJUSTABLE ERASER HOLDER
Ivan D. Tefft and Marlin S. Baker, Janesville, Wis., assignors to The Parker Pen Company, Janesville, Wis., a corporation of Wisconsin
Application January 10, 1941, Serial No. 373,914
8 Claims. (Cl. 120—38)



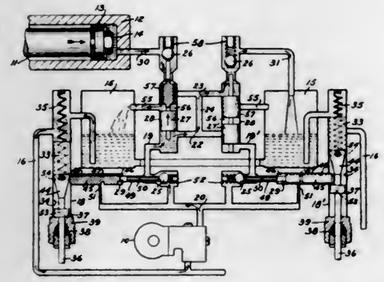
1. An eraser holder comprising in combination, fixed nut means for attachment to a pencil, a propelling stem threaded through the nut means and having a head for ejecting contact with an eraser, and a rotatable actuating sleeve coaxial with the stem and held against axial movement by the nut means, the sleeve having a connection with the head adapted to cause the sleeve and head to rotate together and the head to move axially during rotation.

2,286,879
PACKAGE OR CONTAINER
Gerald R. Thew, Lagrangeville, N. Y.
Application November 2, 1938, Serial No. 238,338
2 Claims. (Cl. 229—30)



1. A box of the type described comprising a bottom wall, a plurality of independent side walls hingedly connected to the bottom wall, each of said side walls having angular side edges converging in the direction of its outer end, each of said side walls being folded transversely thereof to provide an inwardly extending portion overlying the bottom wall of the box, an outwardly and downwardly extending free end and an intervening channel, the channels of the several side walls forming a substantially continuous peripheral channel when the side walls are in box forming position, and a contracting elastic member extending throughout said peripheral channel and serving to retain the side walls yieldingly in box forming position.

2,286,880
HYDRAULIC CONTROL SYSTEM
William A. Traut, West Allis, Wis., assignor to Blackhawk Mfg. Co., Milwaukee, Wis., a corporation of Wisconsin
Application July 5, 1940, Serial No. 344,097
16 Claims. (Cl. 60—52)



10. In a hydraulic system, a pump, a liquid supply reservoir, a device operable by liquid under pressure from said pump, a conduit connecting said pump and said device and having a ball valve therein, a selector for opening said valve and for connecting the suction side of said pump with said reservoir, and means for relieving the discharge side of said pump and said valve from hydraulic pressure when said selector is inactive.

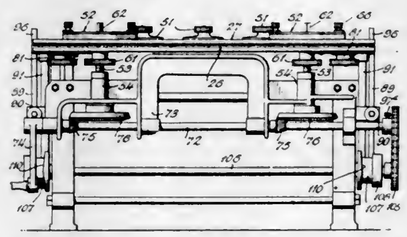
2,286,881
METHOD OF TREATING HYDROLYZABLE TITANIUM SALT SOLUTIONS
Foord Von Bichowsky, Arden, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 29, 1939, Serial No. 292,403
8 Claims. (Cl. 23—202)

1. A process for producing a substantially clear, non-turbid, hydrolyzable titanium chloride solution which is stable on standing at room temperature, comprising subjecting a hydrolyzable titanium chloride solution which is substantially free from undesired metallic impurities to heat treatment at a relatively moderate temperature but below that at which substantial TiO_2 precipitation and hydrolysis of said solution will be effected, and thence prior to hydrolysis removing coagulated materials which form in said solution as a result of such treatment.

2,286,882
TITANIUM OXIDE PIGMENT PRODUCTION
Foord Von Bichowsky, Arden, and Robert M. McKinney, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 13, 1939, Serial No. 294,654
10 Claims. (Cl. 23—202)

1. A process for producing a rutile titanium oxide pigment comprising subjecting purified, precipitated anatase titanium oxide to initial calcination at a temperature ranging from substantially 1000° C. to 1300° C. and under reducing conditions, and thereafter recalcining the reduced product in an oxidizing atmosphere and at a temperature ranging from substantially 600 to 850° C.

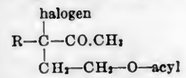
2,286,883
PHOTOMECHANICAL APPARATUS
Martin J. Weber, New York, N. Y.
Original application December 21, 1938, Serial No. 247,021. Divided and this application July 10, 1940, Serial No. 344,643
6 Claims. (Cl. 95—73)



6. In a photo-mechanical apparatus, a main frame, a stationary support carried by said frame, a movable support cooperating with the first support, a connector device mounted on said movable support and including a guide, means to impart a rectilinear movement to said support, said means including an oscillating lever carried by said main frame and having engagement with said guide, a guide bar supported in said main frame, a mounting for said lever slidable on said guide bar and provided with two pivots for said lever arranged at right angles to each other with one of said pivots having a slotted connection with said lever to permit of adjustment of said mounting along said bar to vary the amount of oscillatory movement of said lever, a driven element having two cams engageable with said lever to alternately oscillate the same about said pivots.

2,286,884
MANUFACTURE OF 2-METHYL-2-ALKOXY-3-HALOGEN TETRAHYDROFURANES
Kurt Westphal, Wuppertal-Vohwinkel, and Hans Andersag, Wuppertal-Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application December 27, 1939, Serial No. 311,126. In Germany January 7, 1939
15 Claims. (Cl. 260—345)

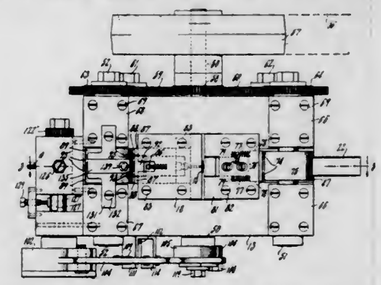
1. The process of producing 2-methyl-2-alkoxy-3-halogen-tetrahydrofuranes which comprises reacting upon a compound of the formula



wherein R stands for a radical selected from the group consisting of the aceto and carbalkoxy groups and "acyl" is the radical of a carboxyacyl acid with a lower alcohol and a small quantity of water and a mineral acid.

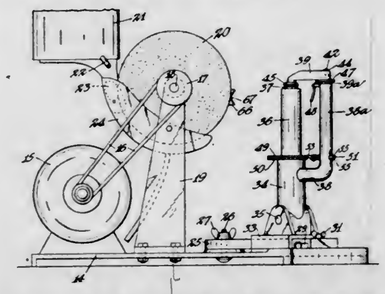
2,286,885
MACHINE FOR FORMING ELEMENTS
William J. Wiley, Waterbury, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application January 20, 1940, Serial No. 314,823
6 Claims. (Cl. 29—34)

1. A machine comprising a die for swedging elements, said die comprising a reciprocable member having a face adapted to contact with and shape an element, an abutment having a face adapted to receive the thrust of said member, a carrier for an element blank and the element formed therefrom, said carrier having a recess therein for holding the element blank, said recess being adapted to be reciprocated between the faces of said reciprocable member and abutment to form a die cavity for the blank, said die cavity being enclosed by the walls of the reciprocable member and abutment and the walls of the recess in said carrier when such members are in cooperative engagement, said recess in said carrier being so shaped that the element is securely held against movement therein in both



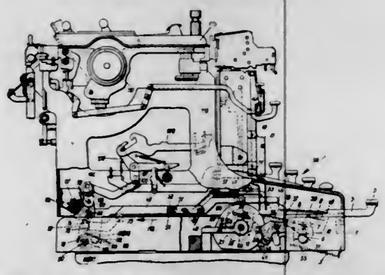
directions of the reciprocating movement of said carrier, means for reciprocating said carrier and said reciprocable member so as to move the recess in said carrier between said abutment and said reciprocable member and the face of said reciprocable member into and out of contact with the face of said carrier to close and open said die cavity and then move said recess in said carrier from between said faces of said abutment and reciprocable member, and means for ejecting the element from said carrier recess while it is out of the space between said reciprocating member and the abutment.

2,286,886
MACHINE FOR GRINDING FACETS IN LENS EDGES
Albert L. Anderson, Minneapolis, Minn., assignor to The Cosmet Corporation, Minneapolis, Minn., a corporation of Minnesota
Application February 29, 1940, Serial No. 321,441
3 Claims. (Cl. 51—98)



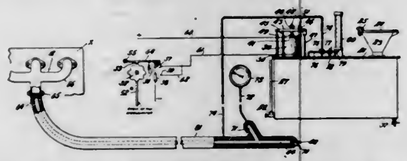
1. Apparatus for grinding facets in lens edges comprising a grinding tool, a lens holder positioned adjacent said grinding tool and arranged to hold a lens in grinding relationship to said tool, said holder being manually shiftable to a plurality of successive unevenly spaced positions to shift the lens to a plurality of lens edge positions relative to said grinding tool, and a gauge device for governing the extent of successive shifts of said holder.

2,286,887
TOTAL TAKING MECHANISM
Robert Anschütz, Zella-Mehlis, Germany, assignor to Mercedes Buromaschinen-Werke Aktiengesellschaft, Zella-Mehlis, Thuringia, Germany
Application January 16, 1939, Serial No. 251,257
In Germany February 12, 1938
4 Claims. (Cl. 235—59)



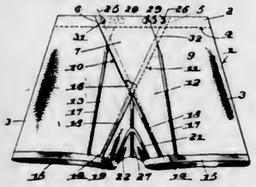
1. In a combined typewriter and calculating machine, a power driven clutch, a total key for controlling the engagement and disengagement of said power driven clutch, a double drive cam operable by said power driven clutch, type levers, selecting means for determining the type lever to be operated during total taking operation, crank levers cooperating with said selecting means, in combination, connecting members rigidly connecting said type levers with said crank levers, a swinging frame for said crank levers, rocking members for rocking said swinging frame, said rocking members being operable by one part of said double drive cam and being connected with said swinging frame at remotely spaced points thereof to impart equal rocking forces to the opposite extremities of said swinging frame.

2,286,888
APPARATUS FOR FUMIGATING
Robert B. Arnold, Stonewall Courts, Va., assignor to Tobacco By-Products and Chemical Corporation, Louisville, Ky., a corporation of Delaware
Application January 21, 1937, Serial No. 121,447
4 Claims. (Cl. 21—121)



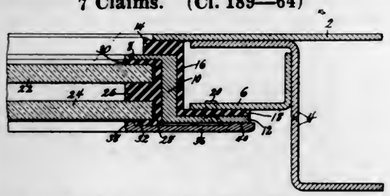
1. In a fumigating apparatus, the combination, with an automotive vehicle having an internal combustion engine mounted thereon, and means for conducting away exhaust gases from said engine, said means including a gasifying chamber, means for maintaining a temperature above the boiling point of nicotine in said gasifying chamber, and means for discharging gases from said chamber in well distributed condition at the rear of the vehicle, of a tank arranged to contain a supply of volatilizable liquid fumigating composition, a pump having a reciprocatory piston, an electromagnetic solenoid having a winding and a reciprocatory plunger, connections between the plunger and the pump piston for operating the latter by the plunger, a connection between the tank and the pump inlet for supplying liquid to the pump, a connection from the discharge side of the pump to the gasifying chamber, a circuit breaker, a source of electricity, a circuit including the winding of the solenoid, the source of electricity, and the circuit breaker, and means actuated only during the travel of the vehicle for operating the circuit breaker whereby the pump discharges the liquid fumigating composition to the gasifying chamber at a rate proportional to the rate of travel of the vehicle, all of said elements, other than the vehicle, being carried by said vehicle.

2,286,889
GARMENT
Charlotte C. Arpin, Fort Lauderdale, Fla.
Application December 15, 1939, Serial No. 309,496
1 Claim. (Cl. 2—237)



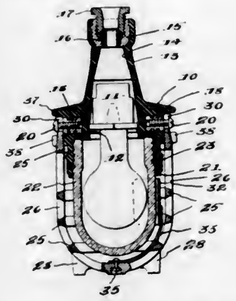
A garment comprising leg members, a waist portion and a crotch portion, said crotch portion being connected between the inner and lower portions of the leg members, panels included in the leg members and waist portion at the front of the garment and defined by the inner edges of the panels extending diagonally in straight lines from the waist portion to the bottom of the leg members and by stitching spaced outwardly of the inner edges and running from points adjacent the waist to the bottoms of the leg members, the inner edges crossing each other at a point approximately one-half of the length of said edges, means securing the lower half of the inner edges of the panels to adjacent edges of the crotch portion, the upper half of the panels adapted to lie in overlapped relation with each other.

2,286,890
DOUBLE WINDOW CONSTRUCTION
Jesse F. Birt, Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application September 1, 1939, Serial No. 293,112
7 Claims. (Cl. 189—64)



1. In a window construction the combination of a window opening bounded by metal members, a substantially Z-form window frame positioned in said opening, means connecting together said Z-form frame and metal members, a glass sheet positioned within said Z-form frame, and a combined glass retaining and finish strip overlapping said glass and entirely overlapping one flange of the Z-form frame thereby concealing said means, said strip being independent of said metal members whereby said glass may be removed from the Z-form frame without disturbing the connection of said frame with the metal members.

2,286,891
ROUGH SERVICE ELECTRIC HAND LAMP
Carl H. Bissell, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York
Application January 9, 1941, Serial No. 373,793
2 Claims. (Cl. 240—54)



1. A rough service electric hand lamp comprising a body formed of resilient material, a lamp receptacle mounted in the body, a globe detachably mounted on the body, said body being provided with a plurality of metal inserts spaced circumferentially about the periphery of the body and each insert having a threaded aperture, a guard cage encircling the globe and being formed with a plurality of axially extending ribs, the ends of said ribs at the open end of the guard being formed with slots spaced complemental to said inserts, and a screw extending through each slot and threading into the adjacent insert to detachably secure the guard to the body, said body being also formed with a radially extending flange overlying the open end of the guard, and the body also having a second radially extending flange spaced axially from said first mentioned flange and being formed with interrupted portions to receive the ends of the ribs of the guard, and said guard being provided with a member arranged to engage said second flange upon the application of force tending to move the guard axially toward the body.

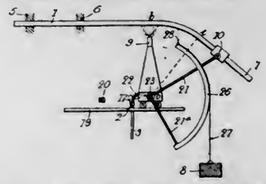
2,286,892
PROCESS OF PREPARING OXO COMPOUNDS OF THE CYCLOPENTANO-POLYHYDRO-PHENANTHRENE SERIES
Max Bockmühl, Gustav Ehrhart, Heinrich Ruschig, and Walter Aumüller, Frankfort-on-the-Main-Hochst, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application August 9, 1938, Serial No. 223,857. In Germany August 12, 1937
4 Claims. (Cl. 260—397.4)

1. The process which comprises causing an amine of the following general formula:

$$R-\left[\begin{matrix}CH_2\\|\\CH\end{matrix}\right]_x-(CH_2)_y-HN_2$$

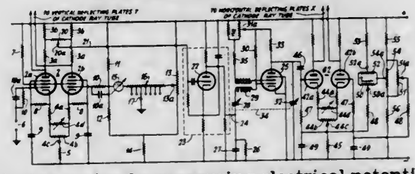
wherein R stands for a member of the group consisting of saturated and unsaturated cyclopentano-polyhydro-phenanthrene radicals, X stands for a member selected from the group consisting of 0 and 1, and Y stands for a member selected from the group consisting of 0, 1 and 2 to react with hypohalogenous acid, splitting off hydrogen halide from the halogen amine compound thus obtained and hydrolyzing the imine thus formed.

2,286,893
APPARATUS AND METHOD FOR BENDING PIPES, BARS, PLATES, AND LIKE PIECES
Pierre Boissou, Pont-a-Mousson, France, assignor to Societe Anonyme des Hauts Fourneaux et Fonderies de Pont a Mousson, Pont-a-Mousson, France
Application August 6, 1938, Serial No. 223,429
In France August 23, 1937
6 Claims. (Cl. 153—32)



1. A process for bending pipes which comprises clamping a portion of a pipe in a freely overhanging position on one side of a part to be bent of said pipe, applying a bending force to a point on the said overhanging portion of said pipe, located on the other side of said part to be bent, and causing a heating source to be displaced automatically along said part to be bent towards said clamped portion at a constant distance from the axis of said clamped portion, said displacement being effected by the movement of said point to which said bending force is applied, whereby the degree of curvature obtained is a function of said bending force and of the effect of said heating source.

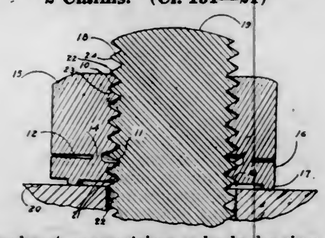
2,286,894
CIRCUIT ARRANGEMENT EMBODYING CATHODE RAY OSCILLOGRAPHS
Cecil Oswald Browne, West Acton, London, Alan Dower Blumlein, Ealing, London, and John Hardwick, West Drayton, England, assignors to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain
Application March 22, 1939, Serial No. 263,460
In Great Britain March 23, 1938
8 Claims. (Cl. 171—95)



1. Apparatus for measuring electrical potentials comprising a cathode ray tube, wherein a beam of electrons impacts upon a luminescent screen, a first deflecting means for producing a deflection of said beam along a predetermined path, a second deflecting means for deflecting the beam at right angles to said predetermined path, a saw-tooth wave oscillator, a first negative feedback push-pull amplifier having an input circuit and an output circuit, means to supply energy from the saw-tooth wave oscillator to the input circuit of said push-pull amplifier, means to supply the first named deflecting means with energy from the output circuit of said first push-pull amplifier, calibrated biasing means for adjusting the sensitivity of said first push-pull amplifier, a second negative feedback push-pull amplifier having an input circuit and an output circuit, means to supply electrical potentials to be measured to the input circuit of said amplifier, means to supply

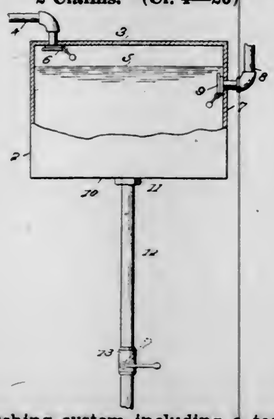
energy from the output circuit of said second amplifier to said second named deflecting means, and calibrated biasing means for adjusting the sensitivity of said second named amplifier.

2,286,895
LOCK NUT
Bert G. Carlson, Willobee, Ohio, assignor to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio
Application April 16, 1941, Serial No. 388,839
2 Claims. (Cl. 151—21)



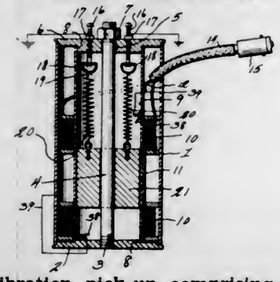
2. A locknut comprising a body having an internal thread embodying leading and following faces engageable with a running clearance over the leading and following faces of threads on a coacting bolt, said body having internal and external annular grooves disposed in a common plane and dividing the nut into two portions connected by a thin deformable web adjacent said internal thread, a bead formed on the end of one of said portions adjacent the periphery of the nut, said bead engageable with an abutting surface for deforming said web to effect the intimate engagement of a face of the thread of the bead carrying portion of the nut with a face of the thread of the bolt opposite to that face of the thread of the bolt engaged by the face of the thread in the other portion of the nut.

2,286,896
FLUSHING SYSTEM
Aniceto Carrillo, Mexico City, Mexico
Application May 29, 1940, Serial No. 337,947
In Mexico May 11, 1940
2 Claims. (Cl. 4—26)



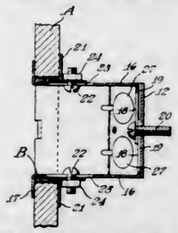
1. A flushing system including a tank having a water inlet in its upper wall, a weight influenced valve controlling the inlet into and arranged wholly within the tank, an air outlet pipe leading into the side wall below the upper end of the tank, a valve controlling the escape of air from the tank through said pipe, said last named valve being arranged wholly within the tank and subjected to the influence of the water rising in the tank, and a discharge pipe communicating with the bottom of the tank, and a discharge control valve in said discharge pipe.

2,286,897
VIBRATION PICKUP
Philip J. Costa and George E. Holback, Yonkers, N. Y.
Application December 20, 1938, Serial No. 246,909
5 Claims. (Cl. 171—209)



1. A vibration pick-up comprising a tubular member, heads for closing the ends of the member, a rod disposed thru the tubular member and engaged with the heads to hold the heads in place, a permanent magnet within the tubular member free for reciprocation created by vibration, said permanent magnet being also freely mounted on the rod connecting the heads to hold the magnet against side play, a pair of coils surrounding the tubular member and connected in series and in opposition, said coils being spaced apart along the tubular member, yieldable means for normally holding the magnet, when the magnet and coils are in quiescence, with its center substantially midway of the coils, and output conductors leading from the coils for the electrical impulses induced by the relative reciprocations of the magnet and the coils.

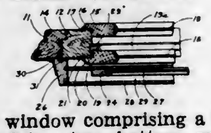
2,286,898
ELECTRIC SWITCHBOX
Peter Cover, Medina, Ohio
Application November 7, 1939, Serial No. 303,301
2 Claims. (Cl. 220—3.7)



2. In a switch box of the character described, a body section having fixed top, bottom and rear walls, apertured bosses formed at the forward edges of the top and bottom walls for immovably connecting the body to a building wall, a pair of complementary flat side wall sections having a contour corresponding to that of the open sides of the body and slidable therewithin, a right angular slotted extension formed at the rear end of each side wall section, the said slotted extensions being disposed in overlapping

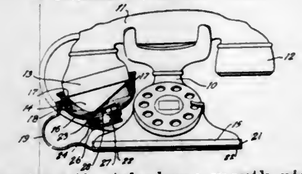
positions against the inner face of the rear wall of the body, means on the rear wall of the body engageable with the slotted extensions for securing the extensions and the side walls in selectively adjusted positions, a lateral outwardly directed flange formed on the front edge of each side wall, the said side wall sections having longitudinally directed slots, formed there, an angular jaw member mounted exteriorly of each side wall section having a laterally directed flange parallel with the front flange of each side wall section, and fastening elements extended through apertures in each angular jaw extended through the slots in the side walls for longitudinally adjusting the said jaws in cooperative relation with the front flange thereof for clamping the side sections on a building wall.

2,286,899
CASEMENT WINDOW
Humbert Crescentini, Youngstown, Ohio
Application July 23, 1940, Serial No. 346,954
1 Claim. (Cl. 20—53)



A casement window comprising a fixed casing, a frame embodying top, bottom and side rails defining a rectangular opening, said frame being of the same thickness as the casing and flush therewith, hinges on the inner face of one of the side rails and casing, a removable storm sash mounted within the opening in said frame, flanges about the marginal edges of said sash overlying the outer face of said frame, hinges connecting one of the vertical flanges with the frame, a window sash mounted within the opening in said frame in spaced relation with said storm sash, flanges about the marginal edges of said sash overlying the inner face of said frame, hinges connecting one of the vertical flanges with the frame, a removable screen intermediate said storm sash and window sash, a blind hinged upon said casing, said blind comprising top, bottom and side rails overlying the crack between said casing and frame and the hinges on the inner face of the casing and side rail, inner and outer panel plates supported by said rails, said inner panel being inset from the face of said rails and defining a recess for the reception of the flanged portions of said window sash and for sealing the crack between said sash and frame, the outer panel being removable and arranged in spaced relation to said inner panel to define a chamber for the storage of said screen or said storm sash.

2,286,900
TELEPHONE STERILIZER
Gail L. Danley and Alvin J. Gordon, Denver, Colo.
Application June 24, 1940, Serial No. 342,084
4 Claims. (Cl. 179—185)



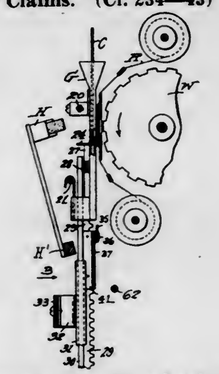
1. An automatic, telephone mouth piece sterilizer comprising: a tray of a size and shape to snugly receive the base of a telephone; a resilient bracket arm extending from said tray; a U-shaped yoke on the extremity of said bracket member; a cup member swingingly mounted between the extremities of said yoke in a position to receive the mouth piece of said phone; a sealing gasket in said cup member for sealing said mouth piece therein; and a cap removable through the bottom of said cup member for receiving disinfectant means; and valve means operable by said mouth piece for opening the interior of said cap to said cup member.

2,286,901
GAME TABLE
Carleton M. Dean, Detroit, Mich.
Application February 23, 1940, Serial No. 320,342
4 Claims. (Cl. 273—6)



1. A game table having a top portion consisting of a plurality of inverted sheet metal trays having their side walls fixed together to provide stiffening ribs and having a plurality of tongues, projecting upwardly from their bottom walls, a continuous sheet of surfacing material into which said tongues have been caused to penetrate, and cementitious material between said trays and sheet for causing adherence of the latter to the trays.

2,286,902
RECORDING MECHANISM
Henry N. Deane and James A. Dell, Gardner, Mass., assignors to Simplex Time Recorder Co., Gardner, Mass., a corporation of Massachusetts
Application March 3, 1941, Serial No. 381,470
9 Claims. (Cl. 234—43)

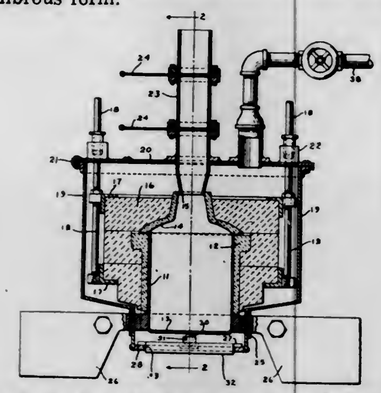


1. In a recording machine having a substantially vertical card guide and a card support movable therein, that improvement which consists in providing operating means effective by successive feeding movement to positively and progressively depress said card support from an initial raised position and effective by a further feeding movement in the same direction to release said card support, and means effective to abruptly return said card support to initial raised position when said support is released by said operating means.

2,286,903
FIBER PRODUCING MECHANISM
Stuart M. Dockerty, Corning, N. Y., assignor, by mesne assignments, to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application May 24, 1938, Serial No. 209,822
8 Claims. (Cl. 49—17)

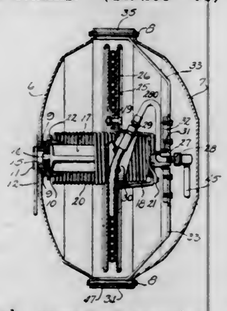
1. The method of producing fibrous material

which comprises flowing molten material in a fine stream, contacting and completely surrounding said stream while still molten with a fluid medium confined under pressure, flowing said compressed fluid medium while in contact therewith to exert a tractive effort on the fine stream over an appreciable length thereof and rapidly accelerating the velocity of said stream and fluid medium by expanding said fluid medium thru an orifice while maintaining it in contact with said stream to attenuate said molten material to fibrous form.



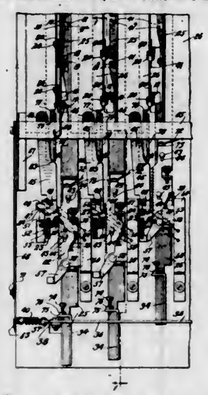
5. In an apparatus for producing fibrous material in combination a receptacle adapted to contain molten glass, a feeder opening in the bottom of said receptacle, means including a housing for establishing a superatmospheric fluid pressure surrounding the exterior of the said opening, means for communicating said pressure with the interior of said receptacle above the glass level therein and a restricted opening formed in said housing in alignment with said feeder opening for the escape of said compressed fluid to atmosphere.

2,286,904
HOSE REEL
Arno A. Ewald, Oakfield, Wis., assignor to Romort Manufacturing Company, Oakfield, Wis., a corporation of Wisconsin
Application December 30, 1939, Serial No. 311,745
5 Claims. (Cl. 299—78)



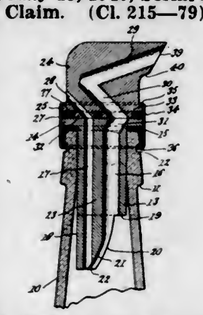
1. In a high pressure greasing system, the combination of a hose reel having substantially parallel sides spaced in conformity to the diameter of the hose to be wound thereon in a single spiral coil, said reel being mounted upon a rotary support provided with grease supplying connections, a grease conveying hose normally wound upon the reel, and a spirally wound spring having one end operatively connected to the reel to impart winding torque thereto, said spring having a tension substantially equal to that required to counterbalance the weight of a grease laden hose when fully extended and being of a length substantially equal to that required to maintain such counterbalancing tension during completion of a winding operation.

2,286,905
VENDING MACHINE
Christian Gabrielsen, Belleville, N. J., assignor to Rowe Manufacturing Co., Inc., New York, N. Y., a corporation of New York
Application August 3, 1940, Serial No. 350,806
6 Claims. (Cl. 312—94)



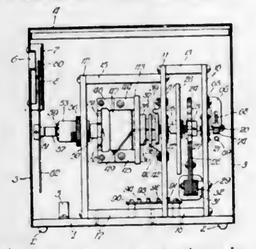
1. In a vending machine, and in combination, a vertically aligned series of article supporting and delivering shelves, means for tiltably supporting said shelves, each said shelf including an abutment, a vertically slidable member including spaced edge portions for engaging said abutments to hold said shelves in untilted position and defining openings between said portions to permit passage of said abutments when in registry therewith, and means for moving said member step by step to bring said openings progressively into registry with said abutments.

2,286,906
BOTTLE POURING SPOUT
Frank Melton Gaines, Louisville, Ky., assignor to Frankfort Distilleries, Incorporated, Louisville, Ky., a corporation of West Virginia
Application May 13, 1940, Serial No. 334,933
1 Claim. (Cl. 215—79)



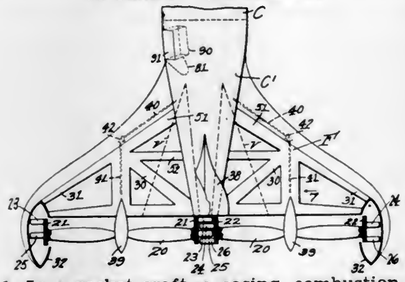
An improved bottle pouring spout comprising a plug having liquid outlet and air inlet passages therein, a quill portion on the inner part of said plug with a laterally cut-away and stepped portion laying open one side of said liquid outlet passage for an appreciable distance upwardly along said plug, the walls of said cut-away portion being curved from the stepped to the lower free end of said quill, said quill having a port between the two passages at the lowermost part of said quill, said quill and plug having a partition between said passages with a lower curved edge sloping toward said port, a valve spout rotatably mounted upon said plug and having corresponding liquid outlet and air inlet passages, and means for connecting said spout to the plug and to the bottle.

2,286,907
WATCH TIMING APPARATUS
Thomas B. Gibbs, Chicago, Ill.
Application June 17, 1937, Serial No. 148,747
8 Claims. (Cl. 73—51)



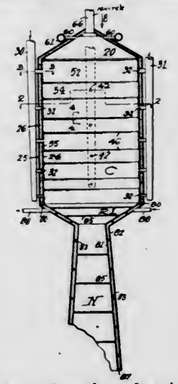
6. In a watch timing apparatus, in combination, an electromagnet, means for rotating the electromagnet at a constant speed, an armature positioned within the field of the electromagnet to be controlled thereby, a tick responsive device adapted to respond to ticks of a watch to be tested, and an electrical circuit controlled by the tick responsive device and connected to momentarily energize the electromagnet at intervals corresponding to the ticks, whereby the position of the armature is controlled by the ticks to give an indication of the rate thereof.

2,286,908
AUXILIARY TURBINE FOR ROCKET CRAFT
Robert H. Goddard, Roswell, N. Mex.
Application August 7, 1940, Serial No. 351,689
13 Claims. (Cl. 244—62)



1. In a rocket craft, a casing, combustion apparatus mounted within said casing and producing a rocket blast issuing rearward therefrom, an auxiliary turbine propelling apparatus detachably mounted on said craft at the rear of said casing and actuated by said rocket blast, frame members supporting said auxiliary turbine and propelling apparatus and detachably secured to the rocket casing, and automatic means to release said frame members and auxiliary apparatus from said craft on the occurrence of a predetermined reduced atmospheric pressure.

2,286,909
COMBUSTION CHAMBER
Robert H. Goddard, Roswell, N. Mex.
Application December 16, 1940, Serial No. 370,326
12 Claims. (Cl. 60—35.6)



8. A combustion chamber having a substantially cylindrical body portion, a nozzle, a conical discharge portion communicating with said nozzle, and an opposite end portion gradually reduced in diameter axially away from said body portion and having set-back shoulders on its inner surface each provided with two annular grooves separated by a sharp-edged rib and tangentially receiving combustible and oxidizing liquids respectively.

10. A combustion chamber having its inner wall formed in axially successive zones alternately having non-reducible and non-oxidizable surfaces respectively, means to admit a supply of combustible liquid to produce a film over each non-reducible zone, and means to admit a supply of an oxidizing liquid to produce a film over each non-oxidizable zone.

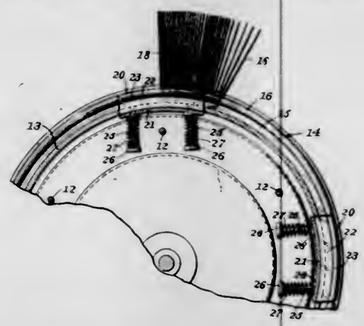
2,286,910
TITANIUM PIGMENT AND PROCESS FOR PRODUCING THE SAME
Marion L. Hanahan and Robert M. McKinney, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 18, 1939, Serial No. 285,136
9 Claims. (Cl. 106—300)

1. A method for producing a stable, weather-resistant titanium pigment containing substantially no reactive or oxidizing agents and less than substantially .25% of soluble salts comprising intimately mixing a calcined titanium pigment with an aqueous solution of barium aluminate and precipitating a small amount of aluminum hydroxide and an insoluble barium compound upon the suspended pigment by adding to said suspension aluminum sulfate and separating and recovering the so-treated pigment.

2,286,911
FILING APPARATUS
Charles Willard Hayes, Bethesda, Md., assignor to Scholfield Service, Inc., New York, N. Y., a corporation of New York
Application March 19, 1941, Serial No. 384,201
19 Claims. (Cl. 129—16)

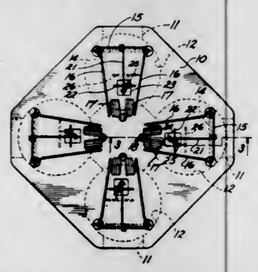
2. A rotary filing drum comprising a cylindri-

cal rim, and card retaining means projecting outwardly from the rim and normally extending circumferentially continuously therearound, portions of said means being movable in a radially



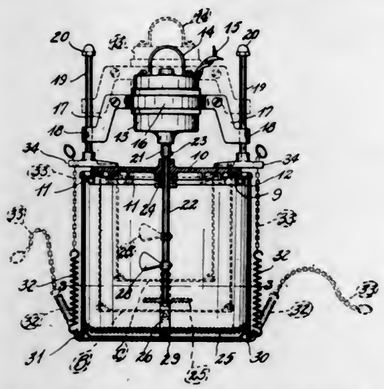
inward direction relative to adjacent portions and to said rim, whereby said movable portions may be moved out of alignment with cards on the rim to permit removal of the cards from the drum en bloc.

2,286,912
MOUSETRAP
Oliver Warren Johnson, Geneva, Ohio, assignor of one-half to Jay Carleton Kelley, Geneva, Ohio
Application June 30, 1941, Serial No. 400,432
2 Claims. (Cl. 43—86)



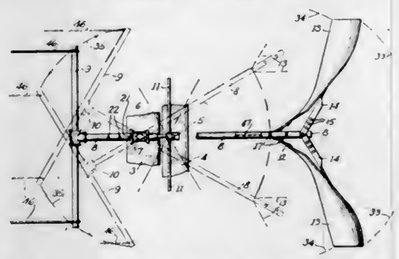
1. A mouse trap comprising a hollow body having an opening in a side wall thereof, a bait pin in the center of said body, a choke wire within said body adjacent said opening, a spring connected thereto, a cross member formed in said spring, a bell crank constituting a trip member, a pivot therefor mounted on the top of said body, a long arm forming a portion of said bell crank depending within said body, a short arm forming another portion of said bell crank extended inwardly toward said bait pin, an eye in an upturned end of said short arm, a second bell crank constituting a latch, a pivot therefor mounted in the top of said body, a long arm forming a portion of said latch bell crank extended inwardly with the free end thereof loosely engaged within said eye, a short arm forming another portion of the latch bell crank disposed in a vertical plane and normal to the latch long arm, a hook in the end portion of the latch short arm, a shoulder formed by said hook, said spring cross member and said latch pivot being arranged in a common vertical plane whereby the full load of the spring is imposed upon the latch pivot when said latch hook is engaged, and whereby the free end of the trip bell crank is free to move within the limits of the clearance between said arm and said eye.

2,286,913
PAINT MIXER
John C. Kelly and Earl R. Brazie, Owosso, Mich.
Application September 25, 1939, Serial No. 296,382
4 Claims. (Cl. 259—108)



1. The combination with a receptacle cover supporting a motor for agitating material within a receptacle on which the cover is disposed, of means for preventing displacement of said cover, said means comprising a member engaging the bottom of the receptacle, arms carried by said member and extending beyond the periphery of the receptacle, arms carried by the cover and extending beyond the periphery of the receptacle and provided with T-shaped openings therein and relatively short contractible spring members connected to the arms of the body member, and chains secured to the free ends of the springs for detachably engaging the T-shaped openings in the cover arms for connecting the arms of the cover and the arms of the member engaging the bottom of the receptacle and forcing said cover to closed position.

2,286,914
ROWBOAT ATTACHMENT
Merton L. Knapp, Valparaiso, Ind.
Application March 10, 1941, Serial No. 382,531
6 Claims. (Cl. 115—28)



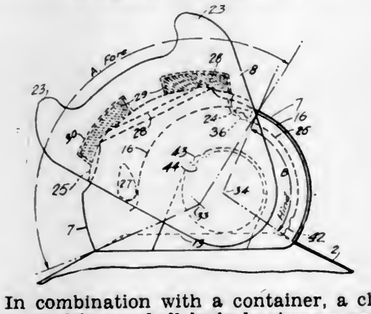
4. A row boat attachment comprising a pair of water engaging blades or oars, means for keeping the blades in spaced apart relation, a support for such means, a horizontal pivot for the support, and a vertical pivot therefor.

2,286,915
MANUFACTURE OF ADERMIN
Richard Kuhn and Gerhard Wendt, Heidelberg, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application March 30, 1940, Serial No. 327,030. In Germany April 13, 1939
14 Claims. (Cl. 260—297)

1. The process which comprises reacting upon a 2-methyl-3-alkoxy-4.5-bis-hydroxymethyl-pyridine with a concentrated hydrobromic acid and subjecting the 2-methyl-3-hydroxy-4.5-bis-bromomethyl-pyridine-hydrobromide formed to hydrolysis to form the 2-methyl-3-hydroxy-4.5-bis-hydroxymethyl-pyridine.

11. 2-methyl-3-hydroxy-4.5-bis-bromomethyl-pyridine-hydrobromide.

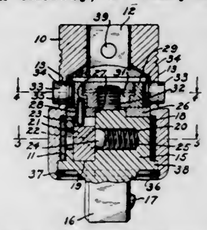
2,286,916
TUBE CLOSURE
Demetrios Panayiotou Loomis, Baltimore, Md.
Application February 14, 1939, Serial No. 256,274
3 Claims. (Cl. 221—60)



1. In combination with a container, a closure unit comprising a shell body having an exterior contour created on curves described from plural centers and combined together, with runways, and groove means provided thereon, said shell having a passage therethrough for the egress of contents of the container, an orifice member projecting from the contour of the shell body and connected with said passage, a hood member with its contacting closing portion having a circular slot thereon to accommodate a gasket stuck therein, and having an arcuate travel over the exterior contour aforesaid and adapted to approach in one direction against the same for closing the said orifice member, and away from the same on an eccentric arc when moved in the opposite or opening direction, said hood having circular hubs, formed thereon adapted to coact with the said runways and groove means for guiding the hood in its travel over the shell body and for providing plural point support therefor, and serrations on the hood and shell body for providing means for adjustably locking same together in plural positions.

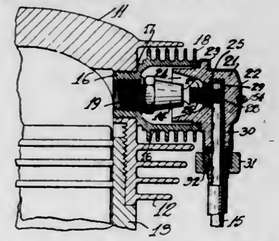
2,286,917
RATCHET SOCKET
Siegmund Mandl, Milwaukee, Wis., assignor to Blackhawk Mfg. Co., Milwaukee, Wis., a corporation of Wisconsin
Application May 3, 1941, Serial No. 391,674
9 Claims. (Cl. 192—43.2)

1. In combination, a coupling casing having internal ratchet teeth and one end formed for attachment to a central driving element, a driven member confined within said casing and having its opposite end projecting exteriorly of the casing and formed for cooperation with the work, ratchet mechanism interposed between said casing teeth and said driven member and being totally enclosed thereby, a rotary annular ele-



ment for reversing said mechanism and being totally concealed by and mounted entirely within said casing, and a pair of diametrically opposite radially movable pins penetrating said casing for manipulating said annular reversing element.

2,286,918
SPARK PLUG SHIELDING
Joseph J. Mascuch, Newark, N. J.
Application September 13, 1930, Serial No. 481,766
18 Claims. (Cl. 123—169)

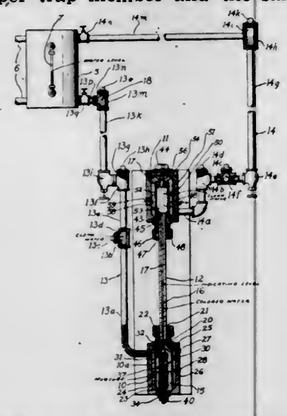


1. A shield for a spark plug comprising a sleeve enclosing the spark plug, a cover for said sleeve comprising a body of insulation coated with metallic foil, a collar on said cover resting on said sleeve and making electrical contact with said coating and means for securing said cover to said sleeve.

2,286,919
LIQUID LEVEL INDICATOR
Frederic McNeill, Chicago, Ill., assignor to T. W. McNeill Engineering Equipment Co., Chicago, Ill.
Application February 14, 1938, Serial No. 190,476
21 Claims. (Cl. 73—299)

14. In a device of the character described, an upper hollow trap member, means separating the interior of said upper trap member into inner and outer communicating chambers, said upper trap member having a top opening to the outer chamber and removable means closing the opening, said upper trap separating means having a top opening substantially in axial alignment with the top opening in the upper trap member and a removable closure member restricting flow between said inner and outer chambers through said separating means, said upper trap member inner chamber also having a bottom opening substantially in axial alignment with its top opening, a lower hollow trap member disposed at a relatively fixed distance from the upper trap member, means separating the lower trap member into inner and outer chambers communicating with each other at their lower portions, said lower trap member having a top opening

to said inner chamber and in axial alignment with the said bottom opening in the upper trap member, a tubular sight glass extending between said upper and lower trap members and through its respective ends establishing communication between the inner chambers of the upper and lower trap members, said sight glass being insertable and removable through the top openings of said upper trap member and the said separat-



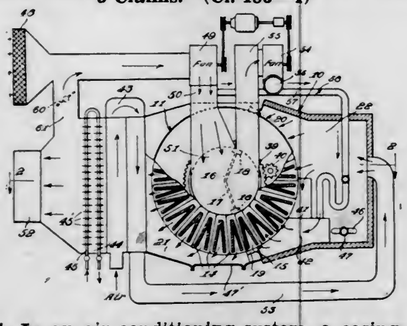
ing means in the upper trap member, a liquid displacement member removably disposed in the inner chamber of said lower trap member, and a valve, adapted to float upon a liquid, freely supported by said displacement member whereby upon a predetermined rise of liquid in the inner chamber of the lower trap member the valve will float off of its support and close the top opening in the lower trap member.

2,286,920

AIR CONDITIONING SYSTEM

Ernest B. Miller, Annapolis, Md., assignor to E. B. Miller Engineering Company, Inc., a corporation of Maryland

Application December 21, 1939, Serial No. 310,453
5 Claims. (Cl. 183—4)



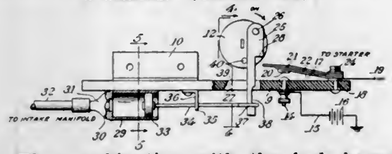
1. In an air conditioning system, a casing, an annular cage mounted in said casing for rotation about a horizontal axis and having a plurality of radially arranged partitions forming a series of open ended compartments therein, a pervious layer of solid adsorbent material in each of said compartments, stationary means engaging the inner and outer peripheries of said annular cage and cooperating with the partitions of said cage to divide said casing into a dehydrating chamber and a reactivating chamber, means for delivering air to be dehydrated through the compartments while travelling through the dehydrating chamber to thereby cause the adsorbent material to extract moisture from the air by adsorption, means for passing a gaseous medium in heat exchanging relationship with the dehydrated air to effect preheating thereof, means for further heating said gaseous medium to a relatively high temperature, means for delivering said gaseous medium through the compartments while travelling through the reactivating chamber, and means to circulate a cooling fluid in indirect contact with the dehydrated air before discharge from the dehydrating chamber to cool the same.

2,286,921

STARTER SWITCH FOR MOTOR VEHICLES

Ivey C. Morris, Lowell, N. C.

Application May 8, 1941, Serial No. 392,577
2 Claims. (Cl. 290—38)



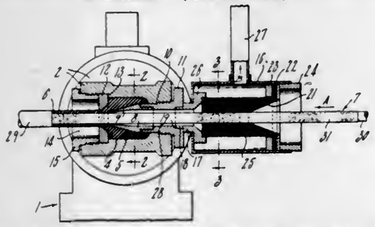
1. The combination with the lock barrel of an ignition switch, of a starter switch disposed below the lock barrel including an insulating base, a fixed contact on the base adapted to be connected to a source of electricity, a resilient contact secured at one end to the base and adapted to be connected in a starter circuit, a trigger disposed substantially vertical and pivotally connected at the upper end to the lock barrel, said trigger being adapted to engage the resilient contact and move it to circuit closing position on the fixed contact, a vacuum cylinder on the base adapted to be connected to the intake manifold of an internal combustion engine, a piston in the cylinder engaging the trigger adapted to swing the trigger out of engagement with the resilient contact when the piston is moved responsive to vacuum created in the cylinder when the engine starts, and a pin on the lock barrel adapted to engage the trigger when the ignition switch is turned to off position and move the trigger to initial position.

2,286,922

EXTRUSION MACHINE

John A. Muller, Passaic, N. J., assignor to United States Rubber Company, New York, N. Y, a corporation of New Jersey

Application April 8, 1939, Serial No 266,727
1 Claim. (Cl. 18—13)



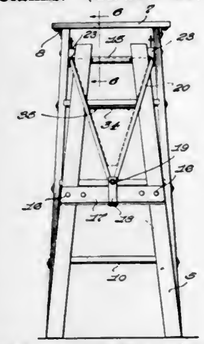
An extrusion machine having an extrusion head and die means adapted to form a cover of plastic composition about the external surface of material passing therethrough, a suction chamber and a source of vacuum operatively associated with said extrusion head for removing a gaseous medium from the external surface of the material being covered by said plastic composition, said suction chamber including flexible apertured removable sealing means having a tapered tubular portion through which the material is passed before entering the extrusion head, and a tubular screen of relatively fine mesh operatively interposed between said material and said source of vacuum, said tapered tubular portion being of such size as to fit into an end of said tubular screen and removably retain same in operative position.

2,286,923

AUTOMATIC GRIPPING DEVICE FOR STEPLADDERS

Hansford J. Myers, Long Beach, Calif.

Application September 23, 1941, Serial No. 412,013
11 Claims. (Cl. 228—29)



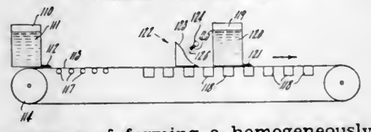
1. A step ladder comprising front and rear legs, a cross bar pivotally connected with the rear legs, spring-pressed brackets pivotally mounted on the front legs, and means carried by the cross bar and pivotally connected with the brackets for gripping the rear legs when weight is applied to the ladder and actuated to automatically release said gripping means when the weight is removed from said ladder.

2,286,924

MANUFACTURE OF SHEET MATERIAL

Gunnar W. E. Nicholson, Panama City, Fla., assignor, by mesne assignments, to International Paper Company, New York, N. Y., a corporation of New York

Application January 12, 1938, Serial No. 184,525
1 Claim. (Cl. 92—40)



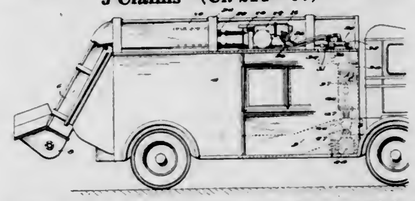
The process of forming a homogeneously interfelted web of cellulosic fibrous material, comprising flowing a layer of cellulosic fibrous stock upon the wire of a Fourdrinier type of paper making machine, dehydrating said layer to an extent sufficient to impart a substantially permanent set to all the fibers of said layer while leaving the upper surface of said layer in a watery condition, flowing a quantity of thin aqueous adhesive solution upon the watery surface of said layer and thereby increasing the amount of water on the upper surface thereof, immediately flowing an additional layer of cellulosic fibrous stock upon the water and adhesive loaded surface of said layer, dehydrating said superimposed layers simultaneously by suction and simultaneously thereby commingling and interlocking the fibers and adhesive in the adjacent surfaces of said layers only, and finishing said web.

2,286,925

DRIVE FOR REFUSE LOADERS

Carl C. Ottoson, Staten Island, N. Y.

Application December 6, 1940, Serial No. 368,935
5 Claims (Cl. 214—67)



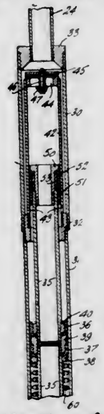
1. In a refuse collecting truck comprising a chassis and a body pivoted thereon for dumping, the combination of a hydraulic motor carried by said pivoted body, for driving an endless conveyor, a pump on the pivoted body for driving said hydraulic motor, and means including cooperating clutch members, carried by the pivoted body and by the chassis, for transmitting power from the chassis of the truck to said pump.

2,286,926

PUMPING MECHANISM

Joseph S. Parenti, Buffalo, N. Y., assignor to The Fluidpoise Manufacturing Company, Inc., Buffalo, N. Y.

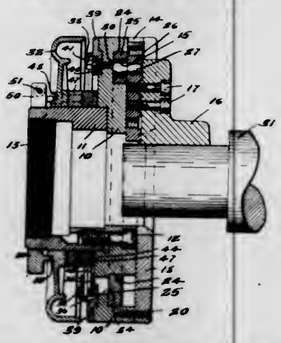
Application October 4, 1939, Serial No. 297,904
3 Claims. (Cl. 103—44)



2. A pumping mechanism for deep wells including a power mechanism for producing reciprocating motion, a pumping mechanism including a cylinder and a tubular pumping piston operating in said cylinder and actuated by said power mechanism, said pumping cylinder being located in a well at an elevation above the liquid level therein slightly less than that to which a column of liquid to be pumped can be raised by suction due to pressure existing in said well, said piston including a tubular part connected with and movable with said pumping piston and having an open end extending directly into the liquid in the well and reciprocating in the liquid to be pumped and lifting the liquid contained therein during upward movement, a perforate

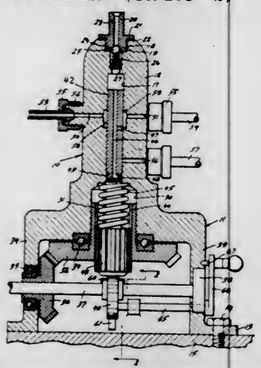
well casing having openings through which the liquid passes, and a brush secured to the lower portion of said reciprocatory part for maintaining said openings clear from obstructions.

2,286,927
ROTARY CHUCK
Willard E. Parish, Syracuse, N. Y.
Application March 4, 1941, Serial No. 381,712
4 Claims. (Cl. 279—118)



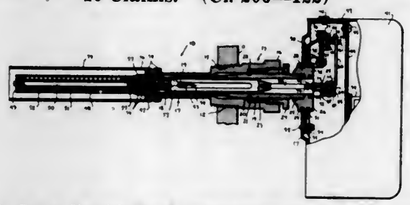
1. A rotary chuck for lathes and the like comprising a body, a plurality of work holding jaws carried by the body and being movable radially thereof into and out of work engaging position, toggle mechanism carried by the body and being operable to move said jaws, an annular member rotatably mounted upon the body and being operatively connected to said toggle mechanism to effect operation thereof, a hand wheel rotatably mounted upon the body, and a lost motion connection between said hand wheel and said annular member.

2,286,928
DIESEL FUEL INJECTOR PUMP
William Louis Pipkin, Jr., Chicago, Ill.
Application May 12, 1939, Serial No. 273,258
4 Claims. (Cl. 103—2)



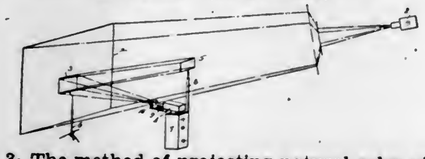
1. In a fuel pump for engines comprising a reciprocatory and rotatable plunger, cam and gear means simultaneously operative to respectively reciprocate and rotate said plunger, said cam being arranged beneath said plunger and in engagement with the adjacent end thereof, and stroke adjusting means for regulating the amount of fuel pumped comprising a wedge adapted to be moved between said cam and plunger end for raising the stroke of said plunger, a rod fixed to the base of said wedge, a movable support, said rod being mounted on one end of said support for vertical movement relative thereto, a coil spring surrounding said rod seated between said support and the base of said wedge, manually operated means connected with said support for moving the same including means for locking said support in adjusted position whereby to hold said wedge in proper position for a selected engine speed.

2,286,929
LIQUID LEVEL RESPONSIVE DEVICE
Bertram P. Pond, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application February 25, 1939, Serial No. 258,555
10 Claims. (Cl. 200—122)



3. In a liquid level responsive means, in combination, a temperature responsive device comprising a tube of expansible material, means supporting one end of said tube, a force transmitting member of relatively non-expansible material connected to the other end of said tube, means mounting said device so as to have relatively good thermal conductivity between itself and a liquid when said liquid is at or above a predetermined level and relatively poor thermal conductivity between itself and said liquid when said liquid is below said predetermined level, means delivering a temperature changing medium to said device whereby its temperature is maintained at a value other than that of the liquid and varies as said liquid level rises above and falls below said predetermined level, a control member operated by said force transmitting member, and means for compensating said device for variations in liquid temperature whereby the resultant movement of said control member is substantially dependent upon liquid level only.

2,286,930
METHOD OF PROJECTING COLOR PICTURES
Gerald F. Rackett, Los Angeles, Calif., assignor to Technicolor Motion Picture Corporation, Hollywood, Calif., a corporation of Maine
Application July 2, 1940, Serial No. 343,606
3 Claims. (Cl. 88—16.4)



3. The method of projecting natural color pictures on a picture screen, the color of the screen or the projection light being unknown, with a color balance substantially the same as that produced with a standard system having an auxiliary screen and auxiliary light of known colors, the method comprising projecting said projection light on said picture screen without color-picture film in the path of the light, measuring the color of the light reflected from the picture screen to determine the color components which make it differ in color from that of the auxiliary light reflected from the auxiliary screen, and then projecting the color pictures on the picture screen with said projection light while absorbing said color components from the light uniformly throughout the entire cross-sectional area of the light.

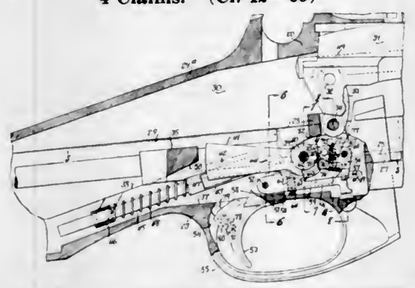
2,286,931
CUTTER FOR DRESSING ELECTRODES IN SPOT WELDING MACHINES
Robert W. Radeke, Grand Haven, Mich., assignor to William H. Keller, Inc., Grand Haven, Mich., a corporation of Michigan
Application July 22, 1938, Serial No. 220,667
15 Claims. (Cl. 90—12)



9. A dressing device for an electrode of a spot welding or like machine having, in combination, a tool support including a relatively thin head having a recess therein, a disk-shaped tool mounted in said recess for rotational movement relative to the head, said tool having an axial socket therein, electrode dressing cutters on said tool extending into said socket, and means having a peripheral engagement with said tool for rotating it.

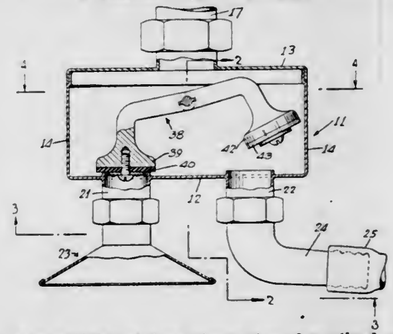
15. A portable electrode dresser comprising, in combination, a cylindrical body having a recess in one end, a disk rigidly secured in said recess and having cutting teeth on its inner face, said body having a central opening in its opposite end exposing said cutting teeth, and an annular series of cutting teeth projecting radially into said opening and adapted to shape the side portion of the electrode adjacent the tip end thereof, the cutting teeth on said disk being adapted to shape the extreme end surface of the electrode tip.

2,286,932
TRIGGER-MECHANISM FOR FIREARMS
William C. Roemer, New Haven, Conn., assignor to Western Cartridge Company, New Haven, Conn., a corporation of Delaware
Application December 19, 1939, Serial No. 310,011
4 Claims. (Cl. 42—69)



1. A firearm-structure including in combination: a pivotal hammer; pivot-means for the said pivotal hammer; a pivotal trigger pivoted to the firearm-structure at a point rearwardly of the pivot-means of the said pivotal hammer and having an arm extending forwardly beyond the pivot-means of the said pivotal hammer; a pivotal sear also pivoted to the firearm-structure at a point to the rear of the pivot-means of the said pivotal hammer and having an arm extending forwardly of the said pivot-means, the said pivotal sear having a portion engageable with the said pivotal hammer to releasably hold the same in its cocked position; an L-shaped sear-actuator carried by and pivoted to the said trigger at a point forwardly of the pivot-means of the said pivotal hammer and having a rearwardly-extending arm and a downwardly-extending arm extending into releasable engagement with the forwardly-extending arm of the said sear; spring-means yieldingly urging the said L-shaped sear-actuator to turn in a direction required to swing its downwardly-extending arm rearwardly for engagement with the arm of the said pivotal sear; and releasing-means movable substantially longitudinally of the firearm-structure and engaging with a portion of the rearwardly-extending arm of the said sear-actuator to positively turn the same in a direction to depress the said rearwardly-extending arm and to swing the said downwardly-extending arm of the said sear-actuator forwardly out of coacting engagement with the forwardly-extending arm of the said pivotal sear.

2,286,933
SHOWER SPRAY HEAD WITH DIVERTER
Solomon Royal, Brooklyn, N. Y.
Application May 15, 1940, Serial No. 335,403
4 Claims. (Cl. 299—144)

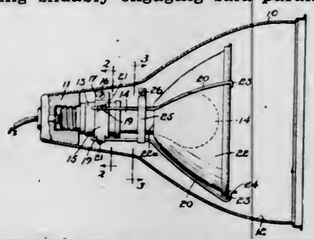


3. An article of the character described comprising a chamber having a top wall and a bottom wall, an inlet pipe connected to the top wall, a shower head connected to the bottom wall, an elbow connected to the bottom wall and extending to one side thereof, a pipe connected to the elbow, and having a portion extending vertically downward, and means for simultaneously closing the shower head and opening the elbow and vice versa.

2,286,934
REFLECTOR AND HOLDING MEANS THEREFOR
Frank Sale, Los Angeles, Calif.
Application January 26, 1940, Serial No. 315,697
1 Claim. (Cl. 240—41)

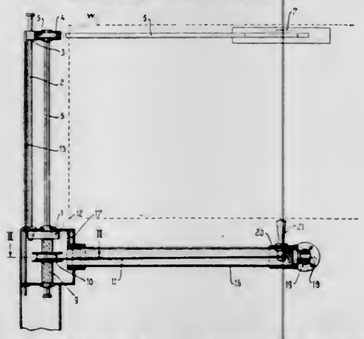
A reflector unit including a plurality of spring elements having portions extending in substantial parallelism, clamp means releasably and adjustably securing one end of each of said parallel portions of said spring elements to a lamp socket, a reflector, means on the other end of each of the spring elements for passing around and releasably engaging the rim of the reflector, said spring elements being formed intermediate their ends

to engage the reflector behind the rim forming a seat for the rear portion of said reflector, and a clamp ring slidably engaging said parallel por-



tions of said spring elements between the clamp means and the rearward portion of the reflector to vary the size of the seat.

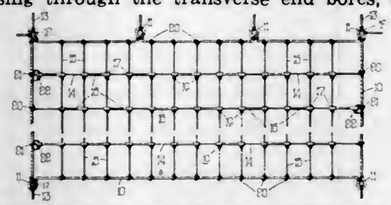
2,286,935
GLARE SHIELD
Paulus A. Schendeler, Eindhoven, Netherlands
Application May 11, 1940, Serial No. 334,631
In the Netherlands May 26, 1939
2 Claims. (Cl. 296—97)



1. An apparatus for shielding the eyes of the driver of a vehicle from glaring light such as that emanating from the headlights of oncoming vehicles, comprising an adjustable shield having two degrees of movement, a strip of resilient and flexible material having one end secured to the shield, a drum attached to which is the other end of the strip, a casing in which the drum is rotatably mounted, a guide bar adapted to be secured to the vehicle outside the effective field of vision of the driver of the vehicle and supporting the casing in such a way that the latter is slidable in a direction parallel to the axis of the drum but prevented from rotation, a gear accommodated in the casing and operatively coupled with the drum, and a handle rockably mounted on the casing for imparting rotary movement to said gear.

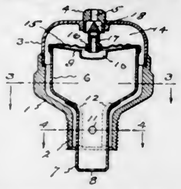
2,286,936
LIFESAVING SIDE NET FOR SHIPS
Alexander Willis Scrutton, Liverpool, England
Application November 3, 1941, Serial No. 417,700
In Great Britain April 23, 1941
3 Claims. (Cl. 228—40)

1. A life-saving side net for ships comprising a flexible frame, a plurality of spaced weft ropes across said frame, a plurality of spaced warp ropes longitudinally of said frame, hollow rigid rung elements having a longitudinal bore and transverse communicating bores on each end with the weft ropes passing through the longitudinal bores of the elements and the warp ropes passing through the transverse end bores, and



means for maintaining the mesh of the ropes between the frame members.

2,286,937
AIR VENT VALVE
William K. Simpson, Waterbury, Conn., assignor to The M. S. Little Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application August 4, 1941, Serial No. 405,291
6 Claims. (Cl. 236—64)

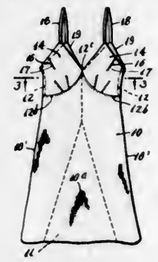


1. A vent valve which comprises a hollow body having at its lower end and integral therewith a tubular stem adapted to be connected with the means to be vented, the opening through said stem forming a continuation of the opening in said body, a cap with a vent port secured to the upper end of the body, a float within and conforming to the interior of the body and having a reduced portion of less exterior diameter than the interior diameter of and extending into said stem and leaving a passage which allows a relatively rapid unrestricted flow of fluid through the stem into and out of the body outside of the float, said float being closed with the exception of two ports of small area, one through the side wall and the other at the bottom, which ports permit a relatively slow flow of fluid into and out of the float, whereby fluid can flow through the stem into and out of the body around the float more freely than into and out of the float and entirely drain from the body, a flexible diaphragm with its edge sealed to the top of the float and providing a chamber for containing volatile fluid between the top of the float and the diaphragm, and a pin extending upward from said diaphragm and adapted to open and close said vent port as the float and diaphragm are affected by the state of the fluid in the body.

2,286,938
SLIP
Charles A. Stegman, Forest Hills, N. Y.
Application September 27, 1940, Serial No. 358,628
1 Claim. (Cl. 2—73)

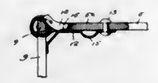
A slip, comprising a main body portion of cloth material having the warp threads vertical at the front of the body, said body being seamless at the sides and flared from the top down, an isosceles triangularly shaped panel of cloth material being inserted in the back of said body portion, said panel having its apex at substantially the natural waist line of said slip and having its base at the hem line of said slip, the warp and

weft threads of said panel making angles of 45° with a line from its apex to the center of its base, the edges of the main body section being seamed together on the back center line above the apex of said panel, the warp threads of the cloth material meeting at this center back seam being biased in opposite directions at angles which are complementary to the flare of the main body portion with respect to the center



front line, the front bust area of said main body portion being cut out and a form fitting bust yoke being set therein, a fold formed in said triangular panel extending from its apex to said base, and means for releasably holding said fold in position, said fold having diverging side walls extending downwardly from said apex to gradually increasingly decrease the diameter of said body portion.

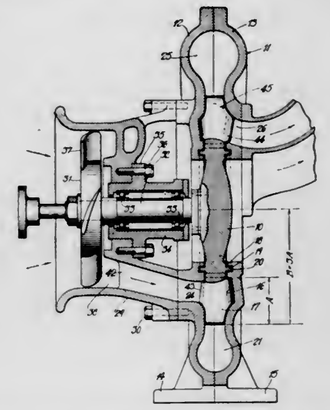
2,286,939
RAKE
Elsie Swanson, Seattle, Wash.
Application December 21, 1939, Serial No. 310,425
3 Claims. (Cl. 56—400.20)



1. A rake of the character described including a rake head consisting of a bar provided with end journals and having depending rake teeth, a handle having a shank composed of forwardly diverging arms provided at their forward ends with bearings in which the journals of the rake head are rotatably engaged, a stop lug extending laterally inwardly and then forwardly from a forward end portion of one of the shank arms and arranged to abut said bar of the rake head to limit forward swinging movement of the rake head to a position substantially at right angles to the handle, a spring yieldingly urging the rake head to such forwardly swung position, and means to releasably secure the rake head in such forwardly swung position, said last-named means comprising a laterally swinging fastener hinged at one end to a forward end portion of said one shank arm and having a down turned free end portion arranged to abut an end tooth of the rake head when swung forwardly and laterally inwardly.

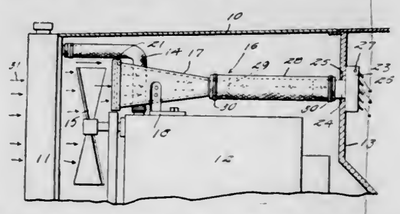
2,286,940
INTERNAL COMBUSTION TURBINE
William E. Trumpler, Easton, Pa.
Application August 25, 1939, Serial No. 291,822
2 Claims. (Cl. 60—41)

1. An internal combustion turbine of the character described including a rotor having a series of peripherally spaced radially projecting impeller blades, a casing enclosing said blades, a fan within the casing, an air inlet area for admitting air from the fan to the rotor, a channel within the area forming a passage leading from an area of high pressure at the outlet of the fan to a point at the rotor where turbine action



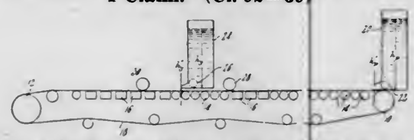
ceases and compression action is initiated whereby air from the fan provides a flow of air into the rotor against reaction pressure and inertia existing at said point of introduction, and means for delivering from the fan other air at a lower pressure to an area adjacent said point for entrance into the rotor.

2,286,941
HEATER FOR MOTOR VEHICLES
Valentine A. Turdin, Wallingford, Conn.
Application November 13, 1941, Serial No. 418,996
1 Claim. (Cl. 237—12.3)



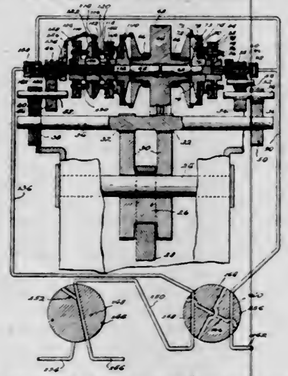
A heater for motor vehicles comprising an air inlet member, said member having an enlarged air inlet end or mouth adapted to be disposed behind and facing toward the radiator of a motor vehicle on which the heater is mounted, said air inlet member being substantially greater in width than in height at its mouth and being tapered toward its opposite, outlet end, a strip of mesh wire fabric disposed over the mouth of said member, a detachable retaining member for holding the strip in position, a bracket for supporting said member above and adjacent the engine of the vehicle and directly behind the engine fan, said member having openings in its top and bottom and adjacent its enlarged, inlet end, through which the hose, connecting the top of the radiator and engine extends, a register mounted in the dash of the vehicle and opening into the interior of the body thereof, and a conduit connected to the register at one end and connected to the restricted, outlet end of said member at its opposite end.

2,286,942
METHOD OF MANUFACTURING PAPER AND/OR BOARD
Alvin Tuten, Georgetown, S. C., assignor, by mesne assignments, to International Paper Company, New York, N. Y., a corporation of New York
Application July 11, 1939, Serial No. 283,755
1 Claim. (Cl. 92—39)



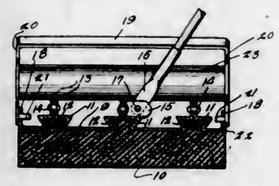
A method of making an interfelted cellulosic fibrous web on a Fourdrinier machine having a traveling wire, a primary headbox and a secondary headbox each adapted to discharge stock in the direction of travel of the wire; which comprises laying down stock from said primary headbox on the moving fourdrinier wire, dehydrating said stock to form a base sheet to such a point as substantially to eliminate all floating fibers on the upper surface of said base sheet on the wire, then laying down a secondary cellulosic fibrous stock from said secondary headbox on top of said base sheet, drawing the fibers of the secondary stock into interlocking engagement with the stock forming the base sheet to form a composite interfelted sheet, regulating the static head effective on the primary and secondary headboxes to maintain a velocity of emergence of the stock from the primary headbox which is less than the lineal speed of the wire but which shall not have a ratio to the wire speed of less than 0.900 and to maintain a velocity of emergence of the stock from the secondary headbox which is less than the velocity of emergence of the stock from the primary headbox except where the emergence of the stock from the primary headbox is at its lower limit of 0.900 and in such case to maintain a ratio of velocity of emergence of stock from the secondary headbox to velocity of emergence of stock from the primary headbox of 1.00 and without permitting the ratio of the velocity of emergence of the stock from the secondary headbox to the speed of the wire to drop below 0.900.

2,286,943
PUNCH PRESS
David C. Verson, Chicago, and Albert Clements, Berwyn, Ill., assignors to Verson Allsteel Press Company, Chicago, Ill., a corporation of Delaware
Application October 14, 1940, Serial No. 361,040
9 Claims. (Cl. 192—144)



1. In a variable stroke mechanical punch press of the type having a press frame, a slide reciprocable in the frame, rotatable means to reciprocate said slide, a fly wheel, and means to rotate said fly wheel in one direction: means including a clutch operable selectively to drive said rotatable means in one direction from said fly wheel, means including another clutch selectively operable to drive said rotatable means from said fly wheel in another direction, a brake to prevent rotation of said rotatable means, and means to release said brake substantially simultaneously with the engagement of either of said clutches and to apply said brake whenever both of said clutches are disengaged.

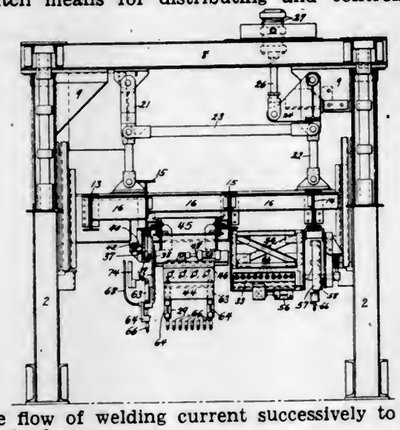
2,286,944
MOP
Ernest Altland, Abbottstown, Pa.
Application May 23, 1941, Serial No. 394,935
2 Claims. (Cl. 15—119)



1. In a mop of the character described, a head embodying a sponge rubber cleaning element, a sectional sheet metal backing plate having upstanding longitudinal flanges at the edges of the sections, the flanges of adjacent sections being connected together in clamping engagement with portions of the sponge rubber material, and the outermost flanges at each edge of the head having longitudinal slots therein, a handle member extending transversely of said head, trunnions on the handle slidably mounted in the slots for pivotal movement from one side to the opposite side of said head, and for reciprocatory movement longitudinally of the head, and a wringer roller journaled in said handle and shiftable therewith into engagement with the cleaner element for wringing the cleaner element incidental to a reciprocatory movement of the handle relative to said head.

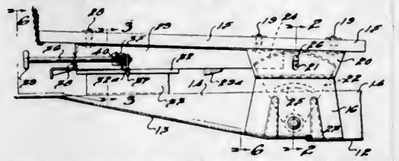
2,286,945
WELDING MACHINE
Velorus E. Andrews, Teaneck, and Arthur C. Schanz and John W. Sheffer, Glen Ridge, N. J., assignors to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application March 4, 1941, Serial No. 381,740
12 Claims. (Cl. 219—4)

3. In a welding machine the combination of supporting means for intermittently moving through the machine material to be welded at a plurality of points spaced longitudinally and transversely of the path of movement of the material, a plurality of welding electrodes carried by the machine and arranged in groups extending longitudinally and transversely of the path of movement of the material, power means to simultaneously move said groups of electrodes toward and away from the material to be welded, additional power means to selectively move each group of electrodes along the material in the plane of the electrodes, fluid pressure means to individually and selectively force said electrodes into contact with the material to be welded and switch means for distributing and controlling



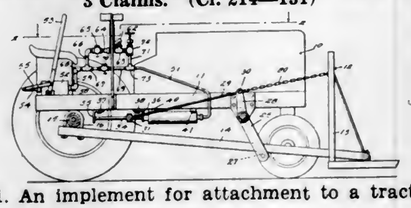
the flow of welding current successively to the electrodes.

2,286,946
ADJUSTABLE SEAT
Albert P. Ball, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application July 13, 1938, Serial No. 219,011
5 Claims. (Cl. 155—14)



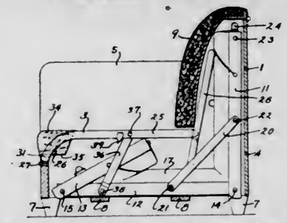
2. An adjustable seat for a vehicle body comprising spaced brackets fixed to the vehicle body floor longitudinally thereof and having flanged upper portions, downwardly disposed brackets having vertically extending apertures therein fixed to the seat and having flanged lower portions adapted to cooperate with the first named flanges to induce the seat to move longitudinally relative to the vehicle body, segmental supporting members pivotally mounted on the first named brackets and having convex portions adapted to engage and support the seat, an equalizer bar carried by the segmental supporting members and projecting through the vertically extending apertures in said downwardly disposed brackets, and means interposed between said brackets and spaced longitudinally therefrom to support another portion of the seat.

2,286,947
HYDRAULIC HOIST
John Virgil Bankson, Greenville, Ohio
Application July 25, 1941, Serial No. 404,073
3 Claims. (Cl. 214—131)



1. An implement for attachment to a tractor frame comprising a horizontally disposed transversely extending supporting shaft, means supporting said shaft from the tractor frame, a pair of sleeves pivotally mounted on said shaft adjacent the opposite ends thereof, a pair of parallel arms fixed to each sleeve and engageable on opposite sides of an implement beam, a connecting member connecting the free end portions of said arms together and engageable beneath the implement beam, a lever fixed to each sleeve and extending therefrom substantially opposite from said arms, a hydraulic operating member, means connecting said operating member with said levers, and a hydraulic hand pump for actuating said operating member.

2,286,948
CHAIR BED
Joseph D. Bell, San Francisco, Calif.
Application August 13, 1941, Serial No. 406,639
11 Claims. (Cl. 5—13)

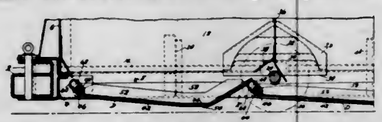


3. In a chair bed, a main frame having a front rail, a mattress comprising three sections including a back section, an intermediate section and a front section with hinged connections between the same, means for mounting the mattress in the main frame with the back section in upright position, the intermediate section projecting forwardly therefrom in horizontal position, and the front section leaning backward from the front edge of the intermediate section and a relatively thin seat deck having its front hinged to the front rail and having an intermediate portion resting on the front section of the mattress, the said mounting means including link connections between the back section and the main frame and between the seat deck and the intermediate section, and guide means for the upper end of the back section, the said link connections and guide means being operable to move the intermediate section and the back section into a position of horizontal alinement when the seat deck is swung forward on its front pivot, a pry member for the link connection between the seat deck and the intermediate frame, the front pivot for the seat connection and the last-mentioned link connection being positioned and arranged for cooperation with the pry member in lifting the front edge of the intermediate section above the normal height of the seat deck when the said front edge crosses the vertical plane of the front rail.

2,286,949
DROP BOTTOM MINE CAR
Fred J. Bogard and Herman H. Pancake, Huntington, W. Va., assignors to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application September 23, 1941, Serial No. 411,946
9 Claims. (Cl. 105—253)

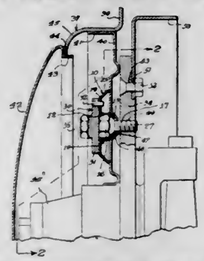
1. In a drop bottom car, a plurality of doors hinged on the car to swing downwardly about transversely extending hinge axes, means forming a plurality of substantially tubular rein-

forcements for the hinge edge of each door, one of said tubular reinforcements serving to support the free edge of the adjacent door when the doors are in closed position, and the other of said tubular reinforcements serving as part of the



hinge for the door, said reinforcements being in communicating relation and said first-mentioned reinforcement being formed to constitute a lubricant reservoir from which lubricant may pass to said second-named reinforcement to lubricate said hinge.

2,286,950
THEFT-PREVENTING DEVICE
Charles B. Breedlove, Detroit, Mich.
Application February 2, 1942, Serial No. 429,164
5 Claims. (Cl. 85—32)



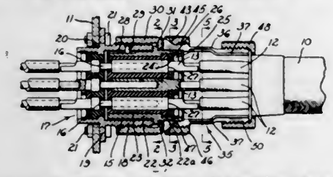
3. In a theft-preventing device, a disc-like member having a central recess shaped to receive a nut or screw head and a surrounding portion having irregularly spaced apertures, said central recess being of polygonal cross-section.

2,286,951
BRUSH KNIFE
Richard D. Brown, Olean, N. Y.
Application February 16, 1942, Serial No. 431,143
7 Claims. (Cl. 30—122)



1. A knife comprising a handle, and a cutting blade of greater length than the handle pivotally connected therewith and having its pivoted end movable to folded position within the handle to shorten the length of the effective cutting edge of the blade.

2,286,952
SPLIT CONNECTOR FOR ELECTRICAL CONDUITS
James H. Cannon and Robert J. Cannon, Los Angeles, Calif.; said Robert J. Cannon assignor to said James H. Cannon
Application July 29, 1940, Serial No. 348,260
8 Claims. (Cl. 285—123)

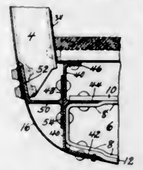


1. A conduit fitting of the character described, comprising: an inner cylindrical member; a shell member having one end embracing said cylindrical member, one of said members having a plurality of circumferentially spaced recesses and the other of said members having a plurality of lugs complementary to said recesses to cooperate therewith for locking said members together against both axial and rotary relative movement, said shell being split into at least two sections for release laterally from said cylindrical member, said lugs and recesses being equally spaced circumferentially whereby the two members may be engaged at various positions of relative rotation; and a clamping ring releasably embracing said shell to hold said two sections together.

2,286,953
METHOD FOR MAKING THYMOL
Marion Scott Carpenter, Nutley, N. J., assignor to Burton T. Bush, Inc., New York, N. Y., a corporation of New Jersey
No Drawing Application August 2, 1940, Serial No. 350,116
11 Claims. (Cl. 260—626)

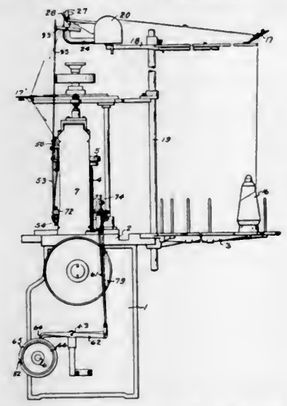
1. In a process for making thymol by reacting m-cresol with isopropyl chloride in the presence of aluminum chloride at temperatures between —20° C. and 0° C., the improvement which comprises conducting said reaction in the presence of 50 to 100 grams of ethylene dichloride for each 108 grams of m-cresol treated.

2,286,954
SIDE SILL
Allen W. Clarke and Ralph G. Nichols, St. Charles, Mo., assignors to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application February 24, 1940, Serial No. 320,616
11 Claims. (Cl. 105—418)



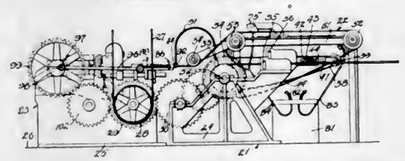
1. A side sill for railway cars having side posts, bolsters and floor, said sill being of generally cruciform cross-section and formed of a W plate, to which is secured a Z member and an angle, said W plate being secured to the posts and bolsters while said Z member supports the car floor and together with the angle provides additional attachment between the bolsters and W plate.

2,286,955
ELASTIC YARN FEEDING MEANS FOR KNITTING MACHINES
Arthur N. Cloutier, Lonsdale, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application February 1, 1940, Serial No. 316,787
6 Claims. (Cl. 66—132)



5. A rib knitting machine having a dial, a cylinder, dial needles and a circle of cylinder needles in said cylinder, means for inlaying elastic yarn between rib and plain stitches, a binder and cutter outside the circle of cylinder needles and means adapted to move the elastic yarn held in the binder and cutter across the said circle of cylinder needles for the purpose described.

2,286,956
METHOD OF AND APPARATUS FOR DRAWING WIRE AND FABRICATING ARTICLES THEREFROM
Paul W. Dillon, Sterling, Ill., assignor to Northwestern Steel and Wire Company, Sterling, Ill., a corporation of Illinois
Application December 31, 1938, Serial No. 248,667
27 Claims. (Cl. 10—43)



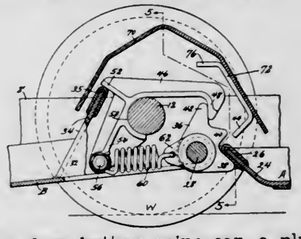
15. In an apparatus of the class described, mechanism for continuously drawing continuous metal stock down to a predetermined diameter and thereby raising its temperature, means for continuously raising the temperature of successive portions of said stock from the temperature at which it leaves the drawing mechanism to a predetermined level, mechanism for repeatedly forming the heated end portion of the stock into a fastening device and severing it from the rest of the stock, and mechanism for pulling said stock continuously from said drawing mechanism through said heating means and feeding it to said forming and severing mechanism so rapidly that a substantial portion of the heat generated in each portion of the stock in the drawing mechanism is still present therein when it reaches the heating means and so rapidly that the stock is still at a forging temperature when it reaches the forming and severing mechanism.

2,286,957
COMBINED CONTAINER AND SIPPER
Amelia Du Val and Birch W. De Lappe, New York, N. Y.; said De Lappe assignor to said Du Val
Application July 3, 1940, Serial No. 343,728
5 Claims. (Cl. 128—213)



1. A combined container and sipper, comprising a container having an interior tubular sipper extending along its height, and means for extending said tubular sipper above the top of said container, said container having a thick bottom portion formed with an opening to measure off a predetermined quantity of liquid, a tubular member having a cup portion engaged over the said opening, means for forcing the tubular portion against the opening to produce a liquid tight joint, said sipper extending through said tubular portion and from the top of the container and its extended end being curved and relatively long to extend along the arch of one's mouth to the back of the throat.

2,286,958
DROP BOTTOM MINE CAR
Walter M. Haessler, Jersey City, N. J., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application April 23, 1941, Serial No. 389,970
18 Claims. (Cl. 105—308)



1. In a drop bottom mine car, a plurality of pivotally mounted doors, latch mechanisms retaining certain of said doors in raised position, each of said mechanisms comprising a latch member supporting the free edge of its associated door, a lock member engaging said latch member to retain the same in door supporting position, and means carried by the adjacent door at a point removed from the pivot thereof, said means freely engaging and disengaging a part of said lock member to control movement thereof.

2,286,959
HIGHWAY TRAFFIC POST
Archie J. Haines, Jordan, Ontario, Canada
Application January 27, 1941, Serial No. 376,208
3 Claims. (Cl. 189—23)

3. A supporting post assembly comprising a series of superimposed axially aligned hollow metallic sections including a head section, an inter-

meddiate section and a base section, an elongated spiral spring element for extension through said sections and into said upper and said base sections, the said latter sections being formed with hollow receiving chambers for the ends of



said element, and means for anchoring said element to said respective sections, each spiral of said spring element adjacent a line of division between sections contacting two adjacent sections and thereby maintaining the several sections in axial alignment.

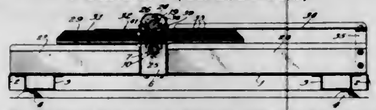
2,286,960

DEVICE FOR SEPARATING STRIP MATERIAL

Marchand B. Hall, Chicago, Ill., assignor to Acme Visible Records, Inc., Chicago, Ill., a corporation of Delaware

Application November 27, 1941, Serial No. 420,693

7 Claims. (Cl. 164—84.5)



7. A device for separating visible index strips from a partially severed sheet of visible index strips which comprises, a frame, a pair of rolls journalled in said frame, with their axes substantially horizontal, said rolls being vertically spaced a predetermined distance from each other and the upper roll being of smaller diameter, a carrier adapted to pass between said rolls, said carrier having a resilient cushion upon its upper surface upon which a partially severed sheet of visible index strips is supported, said carrier including said cushion being greater in thickness than the distance between said rolls whereby said resilient cushion is squeezed between said rolls and caused to wrap around a portion of the periphery of the smaller diameter upper roll, said sheet of strips being confined between said resilient cushion and said smaller diameter roll whereby said sheet is subjected to tension to completely separate said strips, a third roll having a diameter greater than the diameter of said smaller roll journalled in said frame, said third roll being disposed in surface contacting relationship with said smaller diameter rolls to support said latter roll against excessive deflection, means for rotating said third roll, and means connecting said third roll and roll of larger diameter together, said roll of smaller diameter being driven by frictional contact with said third roll whereby said carrier is propelled forwardly between said first-mentioned two rolls.

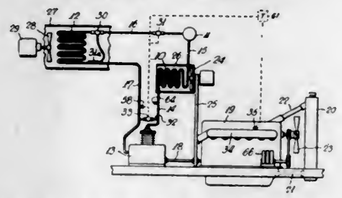
2,286,961

AIR CONDITIONING APPARATUS

Lars Hanson, Syracuse, N. Y., assignor to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware

Application June 4, 1938, Serial No. 211,761

2 Claims. (Cl. 62—4)



2. In an apparatus of the character described including a condenser, an evaporator and a compressor driven by an internal combustion engine having a starting motor associated therewith, the combination of means for bypassing to the inlet of said compressor fluid discharged from the discharge side of said compressor, means for rendering operative said last-mentioned means whenever said starting motor is energized, and means for rendering operative said bypass means whenever the pressure of refrigerant delivered from said evaporator falls below a predetermined point, said bypass means normally being inoperative, whereby bypassing of refrigerant discharged from said compressor to the inlet thereof is prevented except when said starting motor is energized or the pressure of refrigerant delivered from said evaporator falls below a predetermined point.

2,286,962

MANUFACTURE AND PRODUCTION OF ARTIFICIAL THREADS AND THE LIKE ARTICLES

Horace James Hegan and John Harrison Givens, Coventry, and Leslie Rose, Cheylesmore, Coventry, England, assignors to Courtaulds Limited, London, England, a British company

No Drawing. Application January 12, 1940, Serial No. 313,638. In Great Britain January 17, 1939

1 Claim. (Cl. 18—54)

A process for the production of threads which comprises extruding into an aqueous coagulating solution of sulphuric acid and at least one metallic salt, viscose containing a small proportion of octyl alcohol but in an amount not exceeding 0.04 per cent of the viscose.

2,286,963

PUNCTURE SEALING COMPOSITION

Lloyd R. Houser and Richard W. Evans, Washington, D. C., assignors to Capital Tire and Safety Co., Inc., Newport News, Va., a corporation of Delaware

No Drawing. Application March 27, 1942, Serial No. 436,528

7 Claims. (Cl. 106—33)

1. The method of preparing a puncture sealing composition comprising forming an aqueous antifreeze solution, adding thereto a fibrous filler and an earthy filler, separately preparing a suspension of gelatin by heating a mixture of gelatin and water to a temperature of approximately 195° to 205° F., separately preparing a suspension of starch in gelatinous thickened condition by mixing starch and water, adding the suspension of gelatin to the aqueous mixture of anti-freeze solution and fibrous and earthy fillers, thereafter adding the suspension of starch to the mixture, and finally adding a preservative agent to the mass.

2,286,964

SEALING COATING COMPOSITION

Robert T. Hucks, South River, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 15, 1940, Serial No. 361,255

14 Claims. (Cl. 117—69)

11. An article of manufacture comprising an object carrying a plurality of organic coatings including a top coat, an intermediate sealing coating containing activated vegetable carbon and an undercoat containing coloring material soluble in the solvent vehicle of the said top coat.

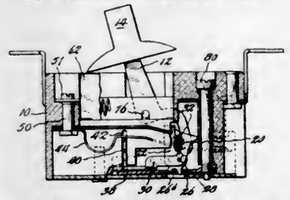
2,286,965

ELECTRIC SWITCH

David W. Johnson, New Britain, Conn., assignor to The Arrow-Hart & Hegeman Electric Co., Hartford, Conn., a corporation of Connecticut

Application April 12, 1941, Serial No. 388,333

15 Claims. (Cl. 200—116)



1. In an electric switch, a manually operable spring biased operating mechanism, separable contacts engageable and disengageable by said mechanism, overload operating means operable to cause separation of said contacts, and means to adjust the overload setting of the switch by moving said operating mechanism relatively to said overload means without moving the overload means.

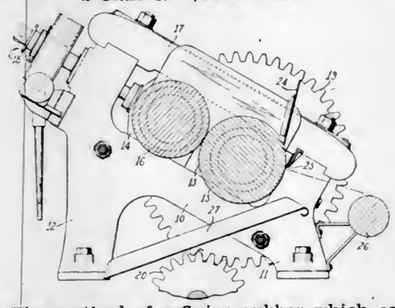
2,286,966

METHOD OF REFINING RUBBER

Emil H. Johnson, Ansonia, Conn., assignor to Farrel-Birmingham Company, Inc., Ansonia, Conn., a corporation of Connecticut

Application June 3, 1939, Serial No. 277,264

2 Claims. (Cl. 18—48)



1. The method of refining rubber which comprises passing the rubber stock through a pair of closely set cooperating rolls, one of which is set forwardly of, and at a higher level than, the other, and maintaining the lower of said rolls at a lower temperature than that of the higher roll, and feeding the rubber to the roll bite over the lower of said rolls whereby the stock adjacent the surface of the higher roll will be kept freely in agitation and urged by gravity toward the roll bite.

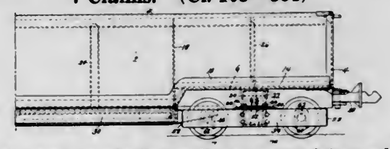
2,286,967

MINE CAR AND TRUCK THEREFOR

Robert C. Kepner, Bloomsburg, Pa., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey

Application April 25, 1940, Serial No. 331,547

7 Claims. (Cl. 105—364)



1. A mine or similar rail car comprising a lading body having a floor and side walls and body supporting means secured to the car adjacent the corners thereof and each comprising, a truck frame mounted on wheels and axles, a center bearing structure supported by the truck and about which said truck frame may rotate in a plane at right angles to the axis of the center bearing structure, means including pivot pins connecting said center bearing structure independently to the body for oscillatory movement solely about said pivot pins and in planes substantially parallel to the longitudinal axis of the car, and resilient means interposed between said center bearing structure and body to resiliently control said oscillatory movement of the center bearing structure about said pivot pins.

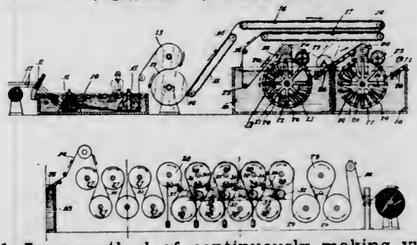
2,286,968

METHOD FOR CONTINUOUSLY PRODUCING VULCANIZED FIBER

Gustave E. Landt, Norristown, Pa., assignor to Continental-Diamond Fibre Company, Newark, Del., a corporation of Delaware

Application February 1, 1941, Serial No. 377,038

6 Claims. (Cl. 154—34)



1. In a method of continuously making vulcanized fiber wherein a plurality of cellulose webs are passed through a peptonizing bath and then formed into a continuous laminated strip while still in a comparatively unweakened condition, the steps which comprise collecting and bodily supporting the formed laminated strip in a slack untensioned state while conveying the same through a course of predetermined length in which peptonization actively occurs to render the strip a substantially gel-like mass of interlaced micelle structures materially weaker than the normal wet strength of the webs, and then passing the thus peptized strip in a slack substantially floating state through leaching and puring baths to wash the peptonizing bath from the strip and substantially strengthen said strip, the supported conveyance and floating passage of the strip in a slack untensioned condition through the active peptonization, leaching and

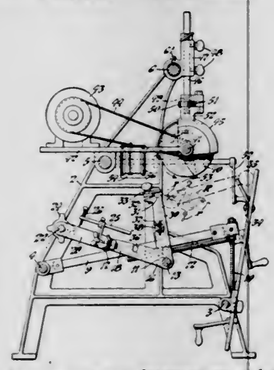
puring stages serving to prevent disturbance of the cellulose micella orientation in said strip due to longitudinal strain and thereby maintain the interlaced relationship of the micelle structures therein.

2,286,969
MEANS FOR MOVABLY CONNECTING ONE MEMBER TO ANOTHER MEMBER
Olive Winnifred Lane, Lynn, Mass.
Application September 6, 1941, Serial No. 409,884
3 Claims. (Cl. 46—161)



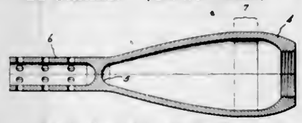
1. The method of connecting one member to another member consisting in making a substantially semi-circular slit in one member and forming a circular hole in said one member which is concentric to the slit with substantially half of the hole in the area formed by the slit, rounding one end of the second member and forming a circular hole in the rounded end, said hole being concentric to the rounded end and forming a slit which extends tangentially from the hole in the second member to an edge of the rounded end and then inserting the portion formed by the hole and the rounded end and the slit of the second member into the hole and slit of the first member.

2,286,970
MACHINE FOR SHARPENING LAWN MOWERS
Joel P. Maynard, Pawtucket, R. I., assignor to The Graham Mfg. Co., Inc., a corporation of Rhode Island
Application June 6, 1939, Serial No. 277,648
7 Claims. (Cl. 51—48)



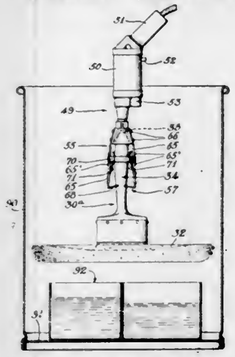
3. In a lawn-mower sharpener, a base, a track supported by the base, means under the control of an operator for bowing the track adjustably, a lever, means for mounting the lever on the track for vertical tilting movement transversely of the track and for movement lengthwise of the track, a sharpening element carried by the lever, a guide carried by the lever and movable with the lever along a lawn mower blade to be ground, and means for holding the lever in such position that the sharpening element will cooperate with the blade to be sharpened.

2,286,971
HOLLOW SHELL
Thomas E. Murray, Brooklyn, and George H. Phelps, Floral Park, N. Y.; said Phelps assignor to Murray Manufacturing Corporation, Brooklyn, N. Y., a corporation of New York, and said Murray assignor to Yarrum, Inc., Brooklyn, N. Y., a corporation of New York
Application December 2, 1939, Serial No. 307,194
14 Claims. (Cl. 29—1.21)



1. The method of making a hollow, streamlined, mortar shell having an ogival front part with a heavier wall section in the region of the forward end thereof and a tapering part at the rear of the front part which method includes the steps of forming plate with a thickened portion at one edge, stamping the plate to form blanks each of which constitutes a developed longitudinal sector of the shell with the thickened portion at one end edge of the blank, drawing the plate to form shell sectors with the thickened portion at one end edge of the shell sector, arranging the several shell sectors with the longitudinal edges contacting and in the form of the shell and electrically uniting the contacting edges of the shell sectors to effect an ingraining and coalescence of the metal at the meeting edges.

2,286,972
RENOVATING OF PAINT BRUSHES
Will E. Nash, Jr., Lincoln, Nebr.
Application November 10, 1939, Serial No. 303,850
5 Claims. (Cl. 141—1)

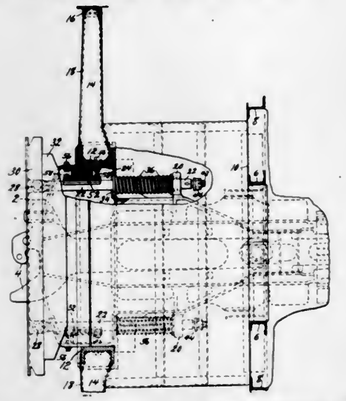


4. The method of cleaning accumulated paint or like surface coating material from a paint brush having an elongated handle carrying bristles normally extending substantially parallel to the longitudinal axis of said handle which consists in soaking the bristles of the brush in a suitable solvent until the paint in said brush has been softened and dissolved at least in part, and rotating said brush about substantially the axis of its handle from a zero speed up to a speed of substantially

$$\frac{3500}{L}$$

revolutions per minute, where L equals the length of the bristles in inches, so that as the rotative speed of the brush increases the bristles adjacent the outer edge of the brush are first bent outwardly so as to break up the paint about such bent bristles and whereby the bristles are successively bent outwardly away from said axis until finally all of the bristles including the bristles located at said axis are bent outwardly so as to progressively break up the paint in the brush and discharge the solvent and paint from the brush.

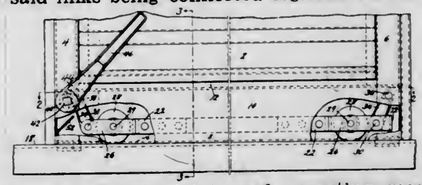
2,286,973
CENTERING DEVICE AND CUSHION FOR BUFFER STEMS
Ralph G. Nichols, St. Charles, Mo., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application July 9, 1940, Serial No. 344,561
10 Claims. (Cl. 213—222)



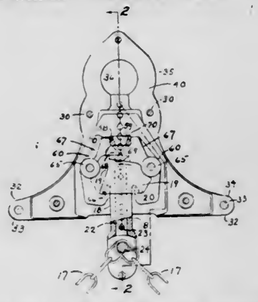
1. In a railway car, an end structure, spaced buffer stems projecting through the end structure, a buffer plate joining said stems together, a buffer stem conforming shoe engaging the outer side only of each stem adjacent the end structure, and resilient means interposed between the end structure and each buffer stem conforming shoe and operative in compression to force said shoes into tight engagement with said stems to maintain said stems in laterally spaced relation to the end structure.

2,286,974
BALANCED DOOR ROLLER LIFT MECHANISM
Jerome J. Oleksiw, Shamokin, Pa., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application November 1, 1939, Serial No. 302,296
9 Claims. (Cl. 16—99)

1. The combination with a sliding door and a track adapted to frictionally support said door in its lowered position of means for elevating said door for sliding movement, said means comprising an antifriction carriage shiftable relative to said door, a plurality of non-parallel oscillatory links connecting said carriage and door, certain of said links being connected together and constituting a toggle joint, and operating means connected to said toggle joint to move the same to a substantially locked position and simultaneously shift the carriage and lift the door.



2,286,975
TRIP MECHANISM FOR LOOSE TINE GRAPPLE HAY FORK
Harry O. Petraske and John B. Olson, Fort Atkinson, Wis., assignors to James Manufacturing Company, Fort Atkinson, Wis., a corporation of Wisconsin
Application March 17, 1941, Serial No. 383,668
1 Claim. (Cl. 294—109)

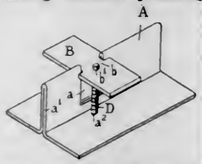


A device of the class described, comprising an elongated horizontally arranged main head, a registering head having an enlarged frustrum-like extension at its top, one or more pairs of L-shaped tines having chain connections intermediate their upper ends to the adjacent ends of said main head, chains forming operating connections between the bottom of said registering head and the free upper ends of said tines, a pair of spaced levers pivoted intermediate their ends to said main head and having inturned hooks on their bottoms, a spring actuated lever pivoted intermediate its ends to said main head, a chain secured to said registering head and extending upwardly and then outwardly and then operatively engaging the outer end of said lever, means adapted to cause said hooks to engage the bottom of said extension when said chain is pulled to its limit, and to lock said hooks in their engaged position when said chain is pulled to its extreme position and released quickly and permit said hooks to be disengaged when the chain is pulled to its extreme position and released slowly.

2,286,976
MEANS FOR SECURING WALLBOARDS IN POSITION
Harold Roberts, Timperley, England
Application September 3, 1940, Serial No. 355,167
In Great Britain May 31, 1940
5 Claims. (Cl. 72—118)

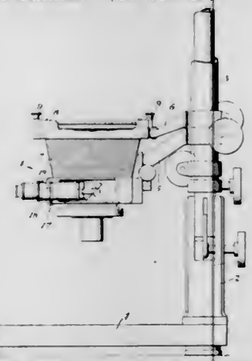
1. Means for securing wallboards, ceiling boards, panels and the like in position compris-

ing in combination a T shaped section strip with a perpendicular slot formed in the web member thereof, a securing plate extending through said slot and adjusting means passing through the



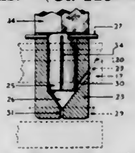
flange of the section strip from the face thereof and engaging said plate for the purpose of drawing the latter on to the rear surface of the edge of the board and securing the said edge between the plate and the flange.

2,286,977
CAMERA
Oscar W. Richards, Snyder, N. Y., assignor to Spencer Lens Company, Buffalo, N. Y., a corporation of New York
Application February 21, 1940, Serial No. 320,139
8 Claims. (Cl. 95—42)



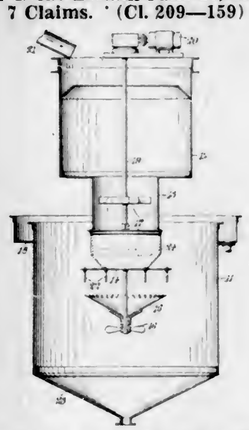
1. In a device of the character described, a camera, a screen in said camera on which an image of an object to be photographed may be focussed, a telescopic device extending into said camera, for observing the image on said screen, said telescopic device comprising a pair of telescoping tubes, one of said tubes having an eyepiece and the other of said tubes having an objective lens system, said tubes being adjustable relative to each other to focus the lens system, and a reflector secured to the inner end of the tube having the objective and in alignment therewith and adapted to reflect an image of the image on the screen through said objective and eyepiece.

2,286,978
APPARATUS FOR PRESSING AND COATING LINERS IN CROWN CAPS
Antonio Rivera, Mexico City, Mexico
Application October 5, 1940, Serial No. 359,976
In Mexico March 29, 1940
3 Claims. (Cl. 113—80)



1. In a machine of the class described, a support for a crown cap, a plunger, means for moving the plunger into pressing relation with the liner cushion in a crown cap resting on the support, an element mounted in fixed relation to the support and having a bore of the same diameter as that of the plunger and through which the plunger operates, a fluid-coating-receiving channel in the outer surface of the member having a connecting passage with the bore, the plunger being provided with a passage having an outlet to register with the connecting passage in the element only at a predetermined point in the path of movement of the plunger, the plunger passage having another outlet in the cushion engaging surface of the plunger, and means for delivering fluid coating material to the channel in the element.

2,286,979
WASHING OF SAND, GRAVEL, AND THE LIKE
John Oswald Samuel, Swansea, Wales, assignor to Unifloc Reagents Limited, Swansea, Wales, a British company
Application June 24, 1941, Serial No. 399,455
In Great Britain June 17, 1940
7 Claims. (Cl. 209—159)

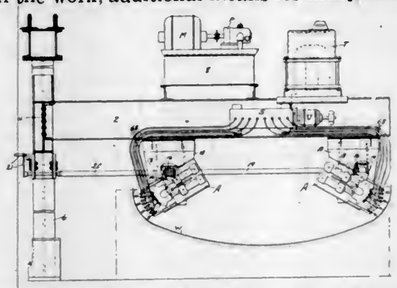


1. Apparatus for washing sand, gravel and the like which comprises a washing vessel, a feed vessel arranged above said washing vessel, a conduit connecting the bottom of said feed vessel with the washing vessel, a shaft mounted within the vessel and the conduit, at least one impeller in the conduit, a spinner consisting of a hollow inverted cone having a serrated edge mounted on the shaft in the washing vessel, means for rotating said shaft at high speed, means for admitting a mixture of sand and water to the feed vessel, means for collecting water and fines overflowing from the washing vessel and means for drawing off heavier particles from the said washing vessel.

2,286,980
SWINGING MULTIPLE SPOT WELDING ELECTRODE
Arthur C. Schanz, Glen Ridge, N. J., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application February 7, 1941, Serial No. 377,911
11 Claims. (Cl. 219—4)

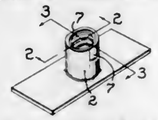
1. A multiple tip electrode for spot welding machines comprising a plurality of work engaging tips arranged substantially in a single plane extending substantially through the longitudinal

axis of the tips, means for simultaneously moving said tips toward and away from engagement with the work, additional means for independent-



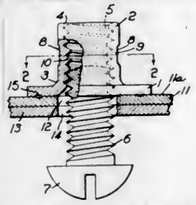
ly moving said tips into and out of engagement with the work, and means for bodily swinging said tips relative to the work and in the plane through the tips.

2,286,981
LOCKING NUT
John Todd, Lincoln, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application June 25, 1940, Serial No. 342,231
2 Claims. (Cl. 151—21)



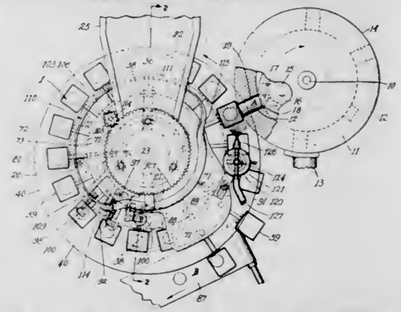
2. A locking nut member having a base, a hollow cylindrical shank extending from said base and originally formed to have a constant outside and inside diameter throughout its length, a thread formed internally of said shank for engagement with a screw thread, said shank having imperforate walls throughout its length, said shank having a non-circular portion formed by depressing a side of said cylindrical shank, said non-circular portion having a length equal to at least two full thread turns, and the major diameter of said thread of said shank in an axial plane through said depressed side being constant throughout the length of said non-circular portion.

2,286,982
LOCKING NUT
John Todd, Lincoln, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application June 25, 1940, Serial No. 342,232
3 Claims. (Cl. 151—21)



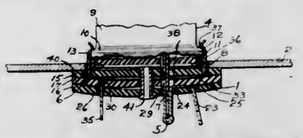
1. A shakeproof nut member providing a body, a cylindrical thread formed internally of said body extending from end to end thereof, said body having a portion of non-circular cross-sectional shape intermediate its ends, said body having a root diameter through said non-circular portion which is less than the major diameter of a cooperating threaded member whereby said non-circular portion is expansible by said threaded member toward normal shape and contractible to bind said threaded member, and said nut thread being of normal diameter and pitch adjacent said ends of said body whereby said threaded member may enter regular engagement with said thread at either end of said body.

2,286,983
DOUGH ROUNDING MECHANISM
Robert J. Beutel, Brooklyn, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey
Application May 9, 1940, Serial No. 334,185
18 Claims. (Cl. 107—9)



1. A dough treating machine including, in combination, a receptacle wherein lumps of dough are confined for a rounding treatment, and mechanism operating automatically and in timed relation to apply a predetermined pressure to the lumps of dough during their rounding treatment in the receptacle, said mechanism including a member adapted to enter said receptacle and press the lump of dough therein during the rounding treatment, and means for varying the pressure imposed upon the lump of dough by said member.

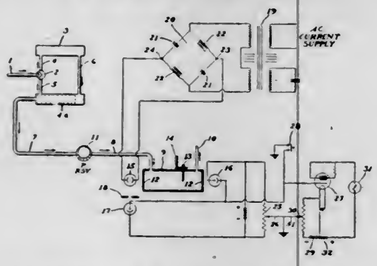
2,286,984
SOCKET AND SOCKET INSTALLATION
Scipione M. Del Camp, Maywood, Ill., assignor to Cinch Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application February 1, 1940, Serial No. 316,794
3 Claims. (Cl. 173—328)



1. A socket member for an electrical connection including a number of superposed insulating plates, said plates having openings for receiving prong-like terminals of a cooperating plug member and contact springs assembled with said plates in alignment with said openings for electrical engagement with said prong-like terminals, and a metal member including a ring-like portion assembled with said socket between two of said plates, a lug portion integrally joined to said ring-like portion extending downwardly therefrom through one of said plates and cooperating with said plate to maintain said metal member in proper relative position to said socket and to provide a soldering lug, a plurality of

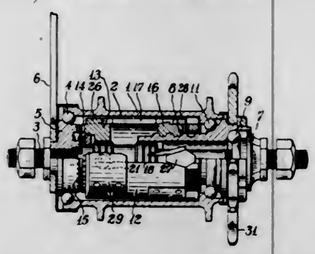
yieldable finger portions integrally joined to said ring-like portion around the periphery thereof, said finger portions extending upwardly from said ring-like portion for electrically engaging a shielding envelope of said plug member when said plug and socket members are in connected relation.

2,286,985
ANALYSIS OF GAS MIXTURES
Victor F. Hanson, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application July 4, 1939, Serial No. 282,794
3 Claims. (Cl. 88—14)



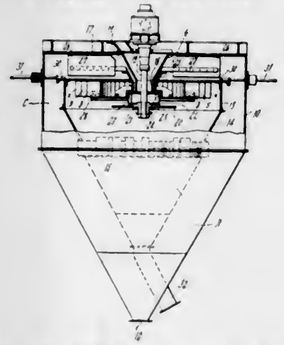
3. An apparatus for determining the concentration of a constituent of a gas mixture which comprises a gas-receiving cell adapted to be traversed by a beam of light, a light source for supplying a beam of light to said cell, purifying means for selectively removing said constituent from said gas mixture, means for passing said gas mixture directly into said cell and for alternately passing said gas mixture through said purifying means and thence into said cell, and means for measuring the difference in the amount of light absorbed in said cell when containing unpurified gas and purified gas.

2,286,986
BACKPEDALING BRAKE FOR VELOCIPEDES
E. Elliott Hood, Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application May 8, 1941, Serial No. 392,466
3 Claims. (Cl. 192—6)



1. In a backpedaling brake for velocipedes, a cylindrical hub, a cylindrical brake sleeve mounted therein having overlapping longitudinal slots formed therein extending alternately from each end thereof, brake shoes fixed to the sleeve adjacent the ends thereof covering the closed ends of the slots so as to reenforce the points of flexure of the sleeve, and means for preventing rotation of the sleeve and expanding it to bring the shoes into frictional engagement with the hub.

2,286,987
AIR SEPARATOR
Thomas J. Sturtevant, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a corporation of Massachusetts
Application December 24, 1940, Serial No. 371,474
7 Claims. (Cl. 209—139)



5. In an air separator of the character described, the combination of a substantially upright casing having a separating chamber therein provided with a centralized upper end opening means for creating a flow of air upwardly from said chamber through said opening, a baffle plate positioned adjacent to said opening and cooperating with the edge of said opening to confine said flow of air substantially to the outer annular portion of the opening, means for distributing powdered material in said chamber where it will be suspended in said air current, a rotary shaft extending substantially axially downwardly through said opening into said chamber, a fan including vanes carried by said shaft and arranged in a plurality of circumferential series, the vanes in all of said series projecting beyond the periphery of said baffle plate and their upper longitudinal edges all lying in a substantially common plane closely adjacent to said centralized upper end opening, the vanes of one of said series projecting farther from the axis of rotation of said fan than those in another series, and means defining said centralized upper end opening comprising parts adjustable to change its diameter to such a degree as to vary the radial distance by which the end portions of said vanes are overlapped by the parts at the margin of said opening, the diameter of the circle swept by the outer edges of some of said vanes being less than the maximum diameter of said opening.

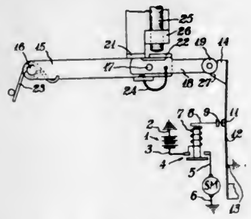
2,286,988
MOLDING AND LIKE FASTENER AND INSTALLATION THEREOF
Walter I. Jones, Arlington, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application July 28, 1936, Serial No. 93,004
12 Claims. (Cl. 24—73)



1. A snap fastener member having a shank at one end and a base means at the other end having a pair of independent shoulders movable toward and away from each other, said shank comprising a pair of yieldable legs joined at their outer ends, said base formed of wider material

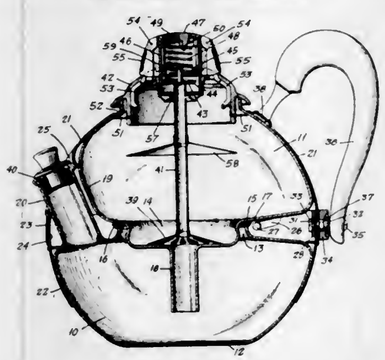
than that of said legs and downwardly-extending leg portions integral with said base and having their ends below and inwardly from said shoulders for cooperation therewith.

2,286,989
ENGINE STARTER CONTROL
Daniel P. Kearney, Birmingham, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application May 23, 1940, Serial No. 336,787
6 Claims. (Cl. 290—38)



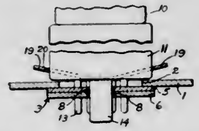
3. In a remote control for engine starters, a starting circuit including a battery, a starting motor and a magnetic starting switch, a control circuit therefor including a pair of contacts, means normally holding said contacts open, manually operable means for releasing said holding means, means for preventing effective closure of the contacts for a predetermined time after release of the holding means and means for resetting the holding means immediately prior to the return of the manual means to idle position.

2,286,990
COFFEE MAKER
Herbert G. Lehmann, Wood-Ridge, N. J., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut
Application September 8, 1939, Serial No. 293,875
13 Claims. (Cl. 53—3)



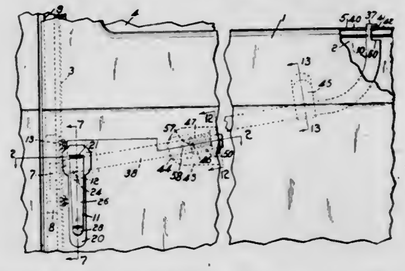
1. A coffee maker of the vacuum type comprising a lower vessel and an upper vessel superposed on the lower vessel and having a tube extending into the lower vessel near the bottom thereof; means for securing the vessels together so as to form a unitary utensil for brewing and pouring of the coffee; a pouring spout on the lower vessel; means for closing the spout against the passage of air while the water in the lower vessel is being expelled through the said tube and while the brewed coffee is returning to the lower vessel; air-inlet means for permitting free passage of air into the lower vessel after the coffee is brewed and while it is being poured; and means on the utensil for storing said spout-closing means when removed from the spout, said last-named means being associated with said inlet means, and said spout-closing means operating said air-inlet means to open the same when placed in said storing means.

2,286,991
FASTENER INSTALLATION
Wilford C. MacFadden, Philadelphia, Pa., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application July 10, 1940, Serial No. 344,645
3 Claims. (Cl. 173—328)



1. In a fastener installation in combination with a support and an article for attachment to one side of said support; of a fastener member attached to the side of the support receiving the article and comprising a flexible ring member formed with opposed base portions for attachment to said support, and substantially semicircular wing portions extending outwardly and angularly from opposite sides of said base portions, said ring members presenting an opening and being adapted to be engaged by the article and flexed thereby to a tensioned position permitting the passage of the article through the opening, said wing portions in said tensioned position resiliently gripping said article and resisting withdrawal of the article from the opening.

2,286,992
LATCH MECHANISM
Howard J. Murphy, Greenwood, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application July 19, 1939, Serial No. 285,248
2 Claims. (Cl. 292—226)



1. A door latch mechanism comprising a latch bolt applicable to the edge of a door and pivoted exteriorly of the edge, said bolt having an arm forming a part thereof and extending into the interior of said door, inner and outer handles pivotally assembled with said door, said handles having actuating portions at their free ends disposed within said door and independently operable on said bolt in normal pivotal movement of

said handles to retract said bolt, means forming part of said door supporting said inner handle and guiding said inner handle in straight line movement which is of said pivotal movement, said actuating portion of said outer handle being normally positioned above said arm in spaced relation thereto and said actuating portion of said inner handle being disposed laterally beyond said actuating portion of said outer handle in position to move between said arm and said actuating portion of said outer handle on said straight line movement of said inner handle thereby blocking operation of said actuating portion of said outer handle on said arm.

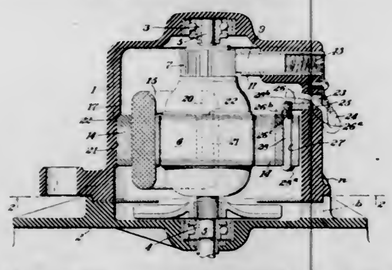
2,286,993

FIELD-CORE HOLDING MEANS FOR ELECTRIC MOTORS

James M. Naul, Fanwood, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application October 11, 1940, Serial No. 360,741

11 Claims. (Cl. 172—36)



4. An electric motor comprising a casing of moulded electric insulating material having in the side walls thereof a plurality of apertures a wall of each of which affords an abutment surface, a plurality of longitudinally extending ribs moulded integrally with said side wall, each of said ribs having a circumferential face and an abutment shoulder, the abutment surfaces of the wall and abutment shoulders of the ribs facing in opposite directions, a field-core located within said casing and having its periphery in contact with the circumferential faces of said ribs and one of its faces in contact with said abutment shoulders, a plurality of clamping elements each having one end engaging one of said abutment surfaces and its other end in contact with that face of said field-core which engages said shoulders, and clamp-screws each having one end threaded into one of said clamp elements and its other end engaging the opposite face of said field-core to force the field-core against said shoulders.

2,286,994

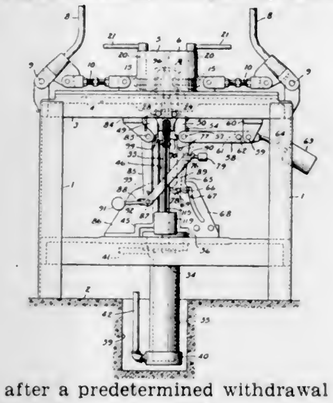
MOLDING APPARATUS

Edward C. Nocar, Cleveland, Ohio, assignor to The Permold Company, Cleveland, Ohio, a corporation of Ohio

Application February 27, 1941, Serial No. 380,775

12 Claims. (Cl. 22—151)

1. A piston mold core comprising a central section, a first pair of outer sections, a second pair of outer sections, means supporting the central section and actuable to withdraw the same from a piston casting, means mounting the first pair of sections on the support for the central section, and means mounting the second pair of sections for tilting movement, said last means having lost motion connection with the supporting means to tilt the sections of the second pair into the space formerly occupied by the central



section after a predetermined withdrawal of the latter.

2,286,995

PURIFICATION OF ACETIC ACID

Joseph S. Reichert, Arthur Alexander Elston, and Roy Arthur Secord, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 11, 1939, Serial No. 289,694

12 Claims. (Cl. 260—541)

1. A process for clarifying crude acetic acid secured from pyroligneous acid in order to free it of dark colored impurities present therein which comprises treating said crude acid with from 0.01% to 10% by weight of monoper- acid, said percentages being by weight, based on the weight of the crude acid.

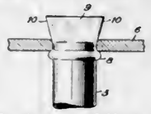
2,286,996

CATHODE-TO-SPACER ASSEMBLY

Allan B. Dickinson, Cedar Grove, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application April 29, 1941, Serial No. 390,889

3 Claims. (Cl. 250—27.5)



1. The method of assembling the electrodes of a radio tube having a cathode sleeve and an insulating sheet comprising forming a cathode sleeve with an annular embossed bead near one end, inserting said end through a hole in said sheet, and bringing the bead into engagement with one side of the sheet at the rim of the hole so that said end protrudes beyond the other side of the sheet, and then, while said sheet and said bead are in contact, pinching together opposite sides of said protruding end of the sleeve.

2,286,997

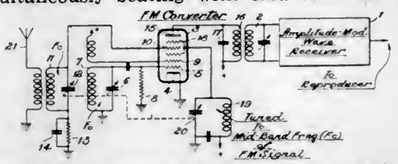
FREQUENCY MODULATION CONVERTER

Seymour Hunt, Flushing, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application May 15, 1941, Serial No. 393,537

14 Claims. (Cl. 250—20)

7. A method of receiving frequency modulated carrier waves of a predetermined center frequency which comprises combining said waves with constant frequency waves of a different frequency to produce waves of a lower frequency, and simultaneously beating with said constant fre-



quency waves additional frequency modulated waves of said center frequency but in phase quadrature with the original frequency modulated waves whereby the lower frequency waves are amplitude modulated.

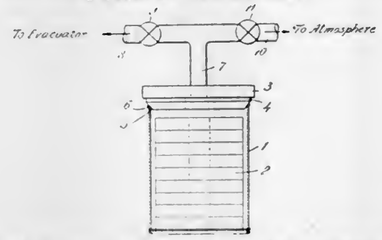
2,286,998

PROCESS FOR TREATING PINEAPPLE

Lucian Norwood Jones, Richmond, Va., assignor, by mesne assignments, to The Girdler Corporation, Louisville, Ky., a corporation of Delaware

Application March 12, 1940, Serial No. 323,503

5 Claims. (Cl. 99—100)



1. A process for improving the appearance of pineapple which comprises flashing into vapor a portion of the natural liquid of peeled pineapple meat by subjecting the latter to a vacuum sufficient to produce a pressure appreciably below the vapor pressure of said liquid in the pineapple at the temperature thereof, and then breaking the vacuum.

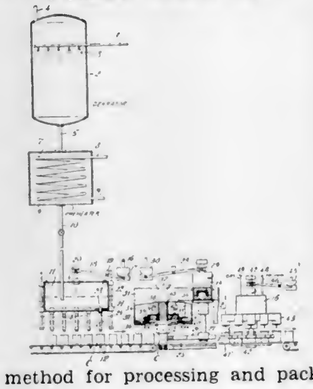
2,286,999

CANNING PROCESS

Horace L. Smith, Jr., Richmond, Va., assignor, by mesne assignments, to The Girdler Corporation, Louisville, Ky., a corporation of Delaware

Application April 19, 1939, Serial No. 268,744

5 Claims. (Cl. 99—182)



1. A method for processing and packaging a food product including a liquid, which comprises deaerating said product so as to remove substantially all air therefrom, thereafter delivering the deaerated product into a container in a manner to prevent re-entrainment of air in the product, leaving a head space in the container, subjecting said head space to a sub-atmospheric pressure below the critical pressure of the liquid contents of the container so as to cause boiling of said contents at the existing temperature thereof, thereby sweeping the air out of said head space by means of the evolved vapors, and then sealing the container in such manner as to prevent re-entrance of air into said head space.

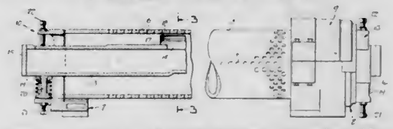
2,287,000

PROCESS OF INTERNALLY REFINISHING HOLLOW SHELLS

Frank J. Lang, Niagara Falls, N. Y., assignor to International Paper Company, New York, N. Y., a corporation of New York

Application August 2, 1940, Serial No. 349,600

3 Claims. (Cl. 51—290)



1. The method of refinishing in situ the internal surfaces of hollow rotary cylinders which are backed internally by stationary packing strips, which comprises removing the packing strips from their support and replacing the same with abrasive blocks of similar size, then operating the cylinder in a normal manner whereby sliding contact between the abrasive blocks and the cylinder surface associated therewith will effect the refinishing of said surface, and finally removing said abrasive blocks and restoring said packing strips to the support with which they are normally associated.

2,287,001

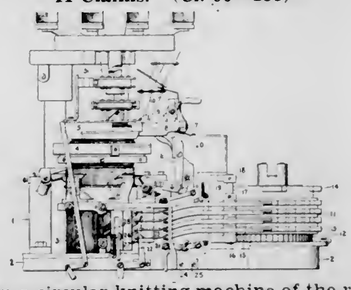
KNITTING MACHINE

Robert H. Lawson, Pawtucket, and Arthur N. Cloutier, Lonsdale, R. I., assignors to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts

Application November 30, 1929, Serial No. 410,819

Renewed November 26, 1938

11 Claims. (Cl. 66—135)



1. In a circular knitting machine of the rotary, independent needle type, means for feeding a thread or threads to the needles throughout substantially all the wales and courses, means for feeding an additional thread or threads to certain needles, said means including a rotary guide carrier having mounted therein a plurality of interchangeable thread guides, the said interchangeable thread guides each being adapted to occupy the same active, feeding position, each in-

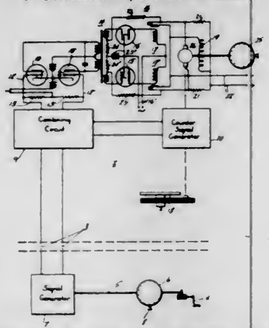
terchangeable thread guide thereby being adapted to feed its thread to the same group of needles, means for causing the guide carrier to rotate in time with the needle cylinder and so controlling the threads that each such thread will be interchangeably wrapped around one or more needles as desired.

2,287,002
ANTIHUNT POSITION CONTROL SYSTEM

Francis L. Moseley, Chevy Chase, Md., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York

Original application June 6, 1936, Serial No. 83,844, now Patent No. 2,256,482, dated September 23, 1941. Divided and this application December 20, 1939, Serial No. 310,152

9 Claims. (Cl. 172—239)



9. A positional control system comprising a controlled object, a controlling object, means including a direct current motor for driving said controlled object, circuit means including grid controlled electron tubes connected to supply an output governing the operation of said motor, means for obtaining and applying to the grid circuit of said tubes an alternating voltage proportional to the positional disagreement of said two objects and circuit means providing a grid bias for said tubes in proportion to the voltage existing across the armature of said motor.

2,287,003
ANIMATED SIGN

George A. Proctor and Chester A. Pafenbach, Los Angeles, Calif., assignors to Neo-Lectro Corporation, Los Angeles, Calif., a corporation of California

Application April 10, 1939, Serial No. 266,930

1 Claim. (Cl. 40—132)



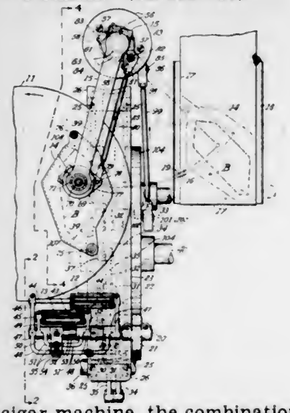
In an animated illuminated sign construction, the combination of: a base; a sign field carried by said base and including means defining transparent sign characters; a reflecting means disposed behind and substantially parallel to said sign field; a light source disposed between said reflecting means and said sign field; a light refracting means interposed between said sign field and said light source; means mounting said light refracting means for oscillatory movement relative to said sign field; and opaque shields interposed between said light source and said light refracting means, whereby all of the light transmitted through said light refracting means and said sign field is projected from said reflecting means.

2,287,004
BINDER FORMING AND TRANSFER MECHANISM

Henry H. Wheeler, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey

Application December 3, 1938, Serial No. 243,799

6 Claims. (Cl. 131—33)



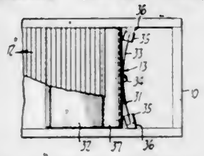
1. In a cigar machine, the combination with a binder cutting bed, of a member swingable horizontally about a stationary vertical axis, a binder transfer head mounted on said member in position to be carried above said binder cutting bed to receive a cut binder therefrom and pivotally movable horizontally on said member, means for swinging said member about said vertical axis to carry the transfer head from a position overlying said bed to a position overlying a bunch rolling apron, and mechanism for turning said transfer head pivotally while it is in transit between said positions to cause it to assume a predetermined position relative to the bunch rolling apron, said mechanism being adjustable to vary the pivotal movement of said head while in transit.

2,287,005
PARTITION MEANS

Valentine F. Greaves, Oakland, Calif.

Application July 15, 1940, Serial No. 345,550

3 Claims. (Cl. 211—184)



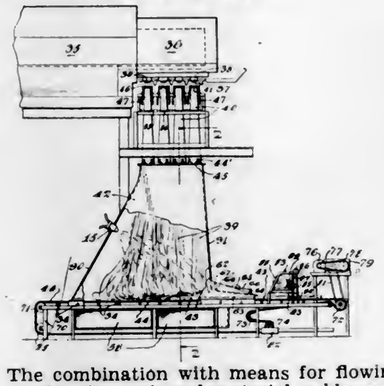
1. A partition member for use in a container with a series of projection slides or the like, said partition member having means to frictionally engage the side walls of the container to hold the partition member in place, means for maintaining said partition member substantially parallel to the slides in the container, and spring means on said partition member for exerting endwise pressure on said series of slides.

2,287,006
APPARATUS FOR MAKING GLASS WOOL

Dale Kleist and Games Slayter, Newark, Ohio, assignors, by mesne assignments, to Owens-Corning Fiberglas Corporation, a corporation of Delaware

Application April 14, 1937, Serial No. 136,893

17 Claims. (Cl. 154—27)



1. The combination with means for flowing a stream of molten mineral material, a blower arranged to direct a gaseous blast to engage the stream and impel the same outwardly from said means to attenuate said stream into fibers, and a foraminous arresting surface upon which said fibers are deposited, of a blast confining elongated hood between said blower and said arresting surface having a narrow throat opening at one end aligned with said blower, the overall dimensions of which end are so related to the cross-sectional area of the blast at its point of entry into the hood as to coact with the blast to create a steam pump effect and draw air into the hood, said end opening to the atmosphere adjacent the blower and adapted to receive the blast and stream through the throat opening thereof together with air induced by the blast from the atmosphere, and the walls of the hood diverging gradually in the direction of movement of the blast to enhance the flow of air into the throat opening and gradually decelerate the blast in its passage through said hood.

4. The combination of means for flowing streams of molten glass, a blower operative and arranged to envelop said streams in a downwardly directed blast of gas, and a vertically disposed spout open at top and bottom spaced below the blower in position to receive said blast, the lip portion of the spout at the upper end thereof being upwardly and outwardly flared, the spout beneath said lip being downwardly and outwardly tapered.

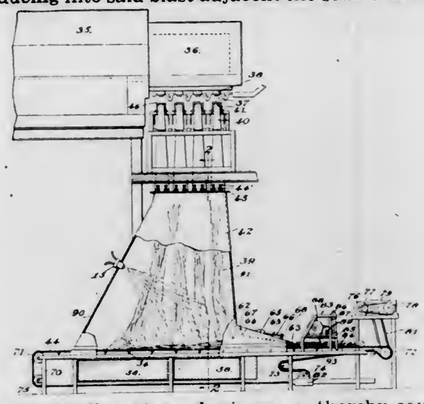
2,287,007
METHOD OF MAKING GLASS WOOL

Dale Kleist and Games Slayter, Newark, Ohio, assignors, by mesne assignments, to Owens-Corning Fiberglas Corporation, Toledo, Ohio, a corporation of Delaware

Original application April 14, 1937, Serial No. 136,893. Divided and this application September 25, 1939, Serial No. 296,373

12 Claims. (Cl. 154—28)

11. In the method of producing an interfelted mass of mineral wool fibers which have been attenuated from streams of molten material by means of a high velocity gaseous blast, the steps of controlling the path of said blast and guiding said blast and fibers in smooth flow gradually expanding in the direction of travel thereof, and inducing into said blast adjacent the source thereof surrounding atmospheric gases, thereby causing said induced gases to aid in retaining said fibers within said blast.

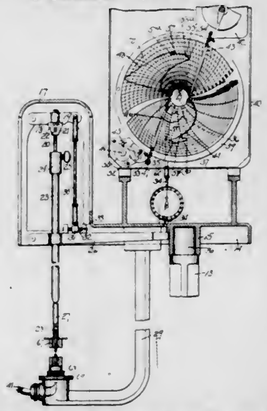


2,287,008
HEAT TESTING APPARATUS FOR METAL OR SOLID OBJECTS

Stanley P. Rockwell, West Hartford, Conn.; Kenneth W. Weeks, executor of said Stanley P. Rockwell, deceased, assignor to The Stanley P. Rockwell Company, Hartford, Conn., a corporation of Connecticut

Application October 20, 1939, Serial No. 300,423

6 Claims. (Cl. 73—51)



5. A heat testing apparatus for metal or solid objects including a heating device to receive an article to be tested, means within said device to support said article, means engageable with said article for movement thereby under expansion and contraction of said article, a rotatably mounted chart, a connection between said article engageable means and said chart for rotation of the chart by expansion and contraction of said article, a pivotally mounted marker engageable with said chart to produce a mark thereon, a pinion secured with said marker to swing the same on its pivot, a gear engaged with said pinion, a lever secured with said gear, a cam to operate said lever, and means for rotating said cam.

DESIGNS

JUNE 16, 1942

132,759
DESIGN FOR A SHOE ORNAMENT OR SIMILAR ARTICLE
Thomas R. Atkins, New York, N. Y.
Application May 15, 1942, Serial No. 106,909
Term of patent 3½ years



The ornamental design for a shoe ornament or similar article, substantially as shown.

132,760
DESIGN FOR A PLATE OR SIMILAR ARTICLE
William Bruning, New York, N. Y., assignor to Mayer China Company, Beaver Falls, Pa., a corporation of Pennsylvania
Application April 18, 1942, Serial No. 106,681
Term of patent 14 years



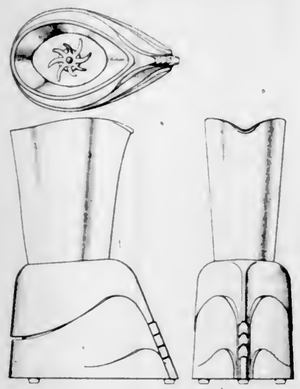
The ornamental design for a plate or similar article, substantially as shown and described.

132,761
DESIGN FOR A TEXTILE FABRIC
Franco Casanova, Monza, Milan, Italy, assignor to South-Eastern Fabrics Corporation, New York, N. Y., a corporation of New York
Application July 5, 1941, Serial No. 102,218
Term of patent 7 years



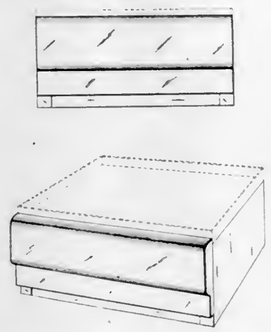
The ornamental design for a textile fabric, as shown and described.

132,762
DESIGN FOR A JUICE EXTRACTOR
Don E. Grove, West Los Angeles, and Jackson D. Comstock, Los Angeles, Calif., assignors to Hollywood Liquefier Corporation, Los Angeles, Calif., a corporation of California
Application April 1, 1941, Serial No. 100,076
Term of patent 7 years



The ornamental design for a juice extractor, as shown.

132,763
DESIGN FOR A COUNTER COOKING APPLIANCE
Edwin A. Jones, Webster Groves, Mo., assignor to Majestic Manufacturing Co., St. Louis, Mo., a corporation of Missouri
Application October 10, 1941, Serial No. 103,710
Term of patent 14 years



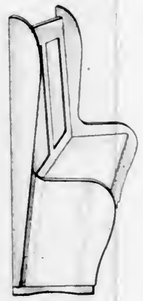
The ornamental design for a counter cooking appliance, as shown and described.

132,764
DESIGN FOR A PULL TAB FOR SLIDE FASTENERS
Samuel F. La Verde, Niagara Falls, N. Y., assignor to Mary La Verde, Niagara Falls, N. Y.
Application March 27, 1942, Serial No. 106,350
Term of patent 7 years



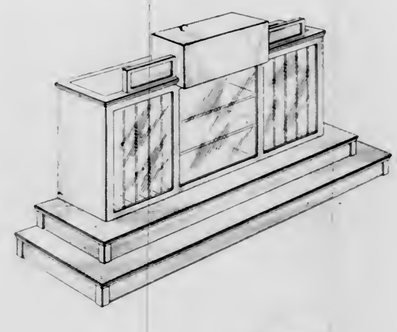
The ornamental design for a pull tab for slide fasteners, as shown and described.

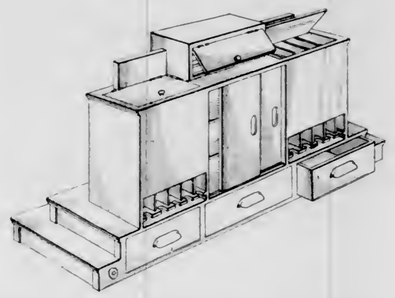
132,765
DESIGN FOR A SETTEE
Frank Mastrangelo, Fitchburg, Mass.
Application January 26, 1942, Serial No. 105,432
Term of patent 3½ years



The ornamental design for a settee, as shown.

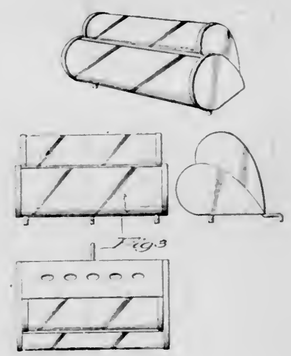
132,766
DESIGN FOR A COMBINED DISPLAYING AND DISPENSING CABINET
Louis Richter, Montreal, Quebec, Canada
Application September 2, 1941, Serial No. 103,128
Term of patent 7 years





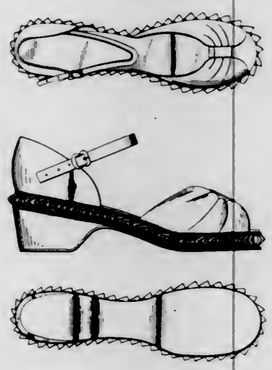
The ornamental design for a combined displaying and dispensing cabinet, as shown.

132,767
DESIGN FOR AN ADVERTISING SIGN
Philip F. Wendell, La Crescent, Minn.
Application March 28, 1942, Serial No. 106,356
Term of patent 7 years



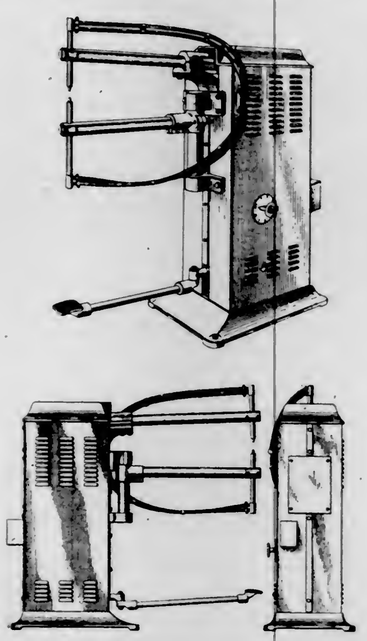
The ornamental design for an advertising sign, substantially as shown.

132,768
DESIGN FOR A WOMAN'S SHOE OR SIMILAR ARTICLE
Hyman E. Zackon, Montreal, Quebec, Canada
Application January 14, 1942, Serial No. 105,194
In Canada October 9, 1941
Term of patent 3½ years



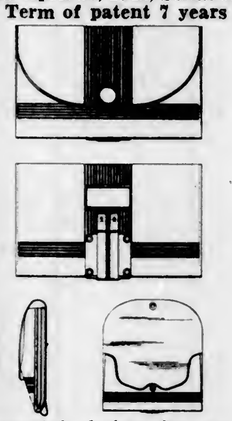
The ornamental design for a woman's shoe or similar article, substantially as shown.

132,769
DESIGN FOR A WELDING MACHINE
Joseph A. Fotie, Kansas City, Mo.
Application August 20, 1941, Serial No. 102,967
Term of patent 7 years



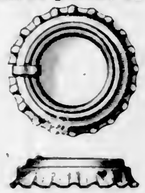
The ornamental design for a welding machine, substantially as shown.

132,770
DESIGN FOR AN AUTOMOBILE VISOR ATTACHMENT BAG
Warner W. Hoople, Evanston, Ill., assignor to Dur-O-Lite Pencil Company, Melrose Park, Ill., a corporation of Delaware
Application April 26, 1941, Serial No. 100,628
Term of patent 7 years



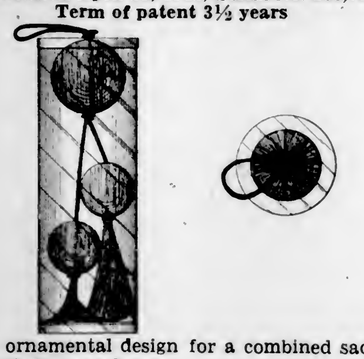
The ornamental design for an automobile visor attachment bag, as shown.

132,771
DESIGN FOR A BOTTLE CAP
George H. Hutaff, Jr., Wilmington, N. C.
Application March 7, 1941, Serial No. 99,413
Term of patent 14 years



The ornamental design for a bottle cap, as shown.

132,772
DESIGN FOR A COMBINED SACHET AND CONTAINER
Albert H. Newman, Chicago, Ill.
Application April 29, 1942, Serial No. 106,749
Term of patent 3½ years



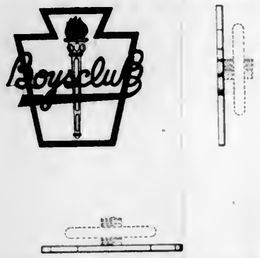
The ornamental design for a combined sachet and container, as shown.

132,773
DESIGN FOR A LEAD PENCIL OR SIMILAR ARTICLE
Lawrence Wilson Saulsbury, Valley Stream, N. Y., assignor to Eagle Pencil Company, New York, N. Y., a corporation of Delaware
Application December 14, 1940, Serial No. 97,303
Term of patent 14 years



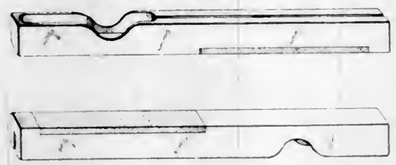
The ornamental design for a lead pencil or similar article, substantially as shown and described.

132,774
DESIGN FOR A BADGE
David W. Armstrong, Worcester, Mass., assignor to Boys' Clubs of America, Inc., New York, N. Y., a corporation of Massachusetts
Application February 26, 1942, Serial No. 105,987
Term of patent 14 years



The ornamental design for a badge, as shown.

132,775
DESIGN FOR A COMBINED HONE AND RECEPTACLE FOR A KNIFE
John Russell Case, Bradford, Pa.
Application June 5, 1941, Serial No. 101,318
Term of patent 3½ years



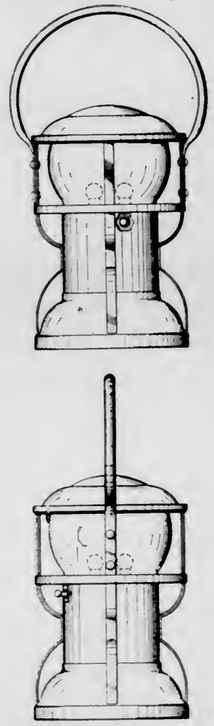
The ornamental design for a combined hone and receptacle for a knife, substantially as shown.

132,776
DESIGN FOR A BADGE OR SIMILAR ARTICLE
Ethel S. Crittenden, Houston, Tex.
Application January 15, 1942, Serial No. 105,215
Term of patent 7 years



The ornamental design for a badge or similar article, as shown.

132,777
DESIGN FOR A LANTERN
Michael J. Freemark, Breckenridge, Minn.
Application March 6, 1942, Serial No. 106,103
Term of patent 7 years



The ornamental design for a lantern, as shown

132,778
DESIGN FOR A BADGE OR SIMILAR ARTICLE
Ruth D. Gouldner, Los Angeles, Calif.
Application August 19, 1941, Serial No. 102,948
Term of patent 3½ years



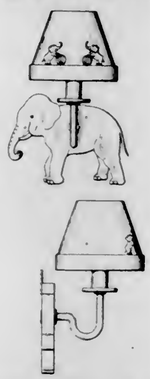
The ornamental design for a badge or similar article, substantially as shown.

132,779
DESIGN FOR A RUG FASTENER
Ernest Berton Harris, Amarillo, Tex.
Application November 24, 1941, Serial No. 104,286
Term of patent 14 years



The ornamental design for a rug fastener, as shown.

132,780
DESIGN FOR A WALL BRACKET LAMP
Herman Edward Jumper, Tiffin, Ohio
Application January 3, 1942, Serial No. 105,009
Term of patent 7 years



The ornamental design for a wall bracket lamp, as shown.

132,781
DESIGN FOR A STATUETTE
John William Lindner, Milwaukee, Wis., assignor to Cooper's, Incorporated, Kenosha, Wis., a corporation of Wisconsin
Application April 6, 1942, Serial No. 106,467
Term of patent 14 years



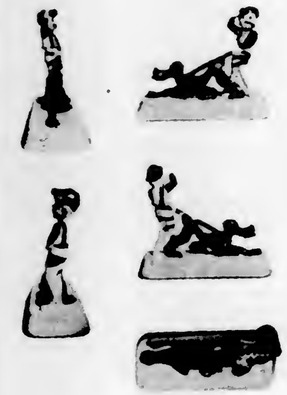
The ornamental design for a statuette, as shown.

132,782
DESIGN FOR A STATUETTE
John William Lindner, Milwaukee, Wis., assignor to Cooper's, Incorporated, Kenosha, Wis., a corporation of Wisconsin
Application April 6, 1942, Serial No. 106,468
Term of patent 14 years



The ornamental design for a statuette, as shown.

132,783
DESIGN FOR A STATUETTE
John William Lindner, Milwaukee, Wis., assignor to Cooper's, Incorporated, Kenosha, Wis., a corporation of Wisconsin
Application April 6, 1942, Serial No. 106,469
Term of patent 14 years



The ornamental design for a statuette, as shown.

132,784
DESIGN FOR A STATUETTE
John William Lindner, Milwaukee, Wis., assignor to Cooper's, Incorporated, Kenosha, Wis., a corporation of Wisconsin
Application April 6, 1942, Serial No. 106,470
Term of patent 14 years



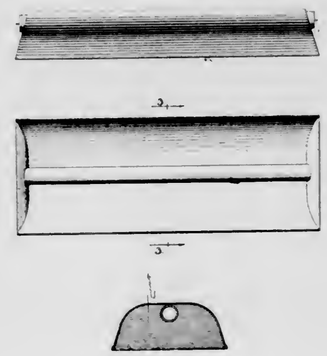
The ornamental design for a statuette, as shown.

132,785
DESIGN FOR A STATUETTE
John William Lindner, Milwaukee, Wis., assignor to Cooper's, Incorporated, Kenosha, Wis., a corporation of Wisconsin
Application April 6, 1942, Serial No. 106,471
Term of patent 14 years



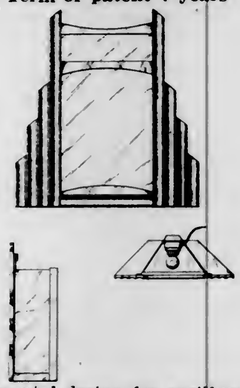
The ornamental design for a statuette, as shown.

132,786
DESIGN FOR A LIGHTING FIXTURE
Ralph B. Netting, Grosse Pointe, Mich.
Application March 28, 1941, Serial No. 99,978
Term of patent 7 years



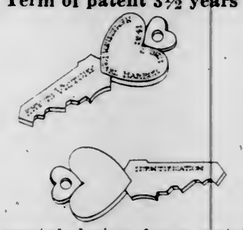
The ornamental design for a lighting fixture, substantially as shown.

132,787
DESIGN FOR AN ILLUMINATED PICTURE FRAME
Ernest G. Steinward, Portland, Oreg.
Application April 6, 1942, Serial No. 106,472
Term of patent 7 years



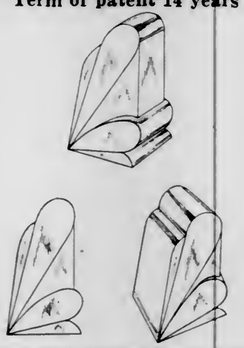
The ornamental design for an illuminated picture frame, as shown.

132,788
DESIGN FOR A WATCH CHARM OR SIMILAR ARTICLE OF JEWELRY
Max Wolfson, Pittsburgh, Pa.
Application February 6, 1942, Serial No. 105,680
Term of patent 3½ years



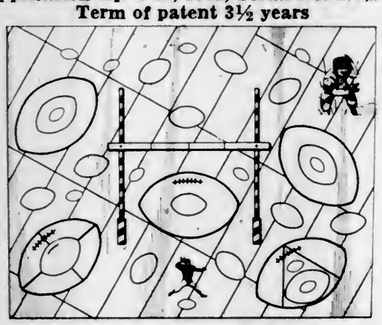
The ornamental design for a watch charm or similar article of jewelry, substantially as shown.

132,789
DESIGN FOR A DOMESTIC WATER HEATER
Jack Barofsky, Los Angeles, Calif.
Application March 17, 1942, Serial No. 106,217
Term of patent 14 years



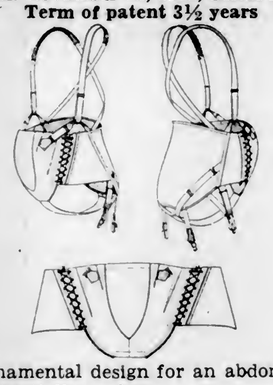
The ornamental design for a domestic water heater, as shown and described.

132,790
DESIGN FOR A GAME BOARD
James E. Clarke, Hammond, Ind.
Application April 10, 1941, Serial No. 100,296
Term of patent 3½ years



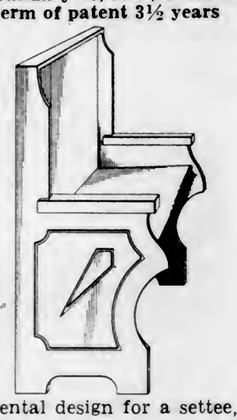
The ornamental design for a game board, substantially as shown and described.

132,791
DESIGN FOR AN ABDOMINAL SUPPORT
Henry J. Lunney, Los Angeles, Calif.
Application November 12, 1941, Serial No. 104,117
Term of patent 3½ years



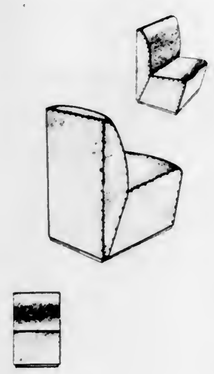
The ornamental design for an abdominal support, substantially as shown.

132,792
DESIGN FOR A SETTEE
Frank Mastrangelo, Fitchburg, Mass.
Application January 26, 1942, Serial No. 105,433
Term of patent 3½ years



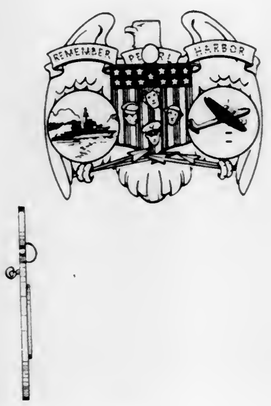
The ornamental design for a settee, as shown and described.

132,793
DESIGN FOR A CHAIR
Alfred Reiss, Newton, Mass.
Application April 9, 1941, Serial No. 100,264
Term of patent 7 years



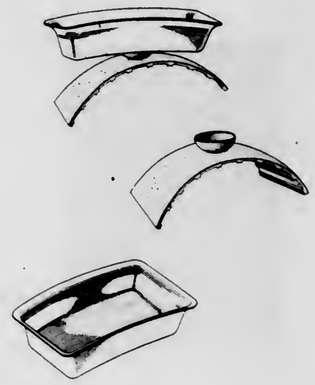
The ornamental design for a chair, as shown.

132,794
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Joseph J. Sharkey, Los Angeles, Calif.
Application February 4, 1942, Serial No. 105,634
Term of patent 3½ years



The ornamental design for a brooch or similar article, as shown.

132,795
DESIGN FOR A COMBINED BEAUTICIAN'S TRAY AND SHOULDER SUPPORT
Florence Sommers, Los Angeles, Calif.
Application October 28, 1941, Serial No. 103,929
Term of patent 14 years



The ornamental design for a combined beautician's tray and shoulder support, substantially as shown.

132,796
DESIGN FOR A TEXTILE FABRIC
John H. Abt, New York, N. Y., assignor to Deering Milliken & Co., Inc., New York, N. Y., a corporation of New York
Application April 25, 1942, Serial No. 106,707
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown.

132,797
DESIGN FOR A TEXTILE FABRIC
John H. Abt, New York, N. Y., assignor to Deering Milliken & Co., Inc., New York, N. Y., a corporation of New York
Application April 29, 1942, Serial No. 106,742
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown.

132,798
DESIGN FOR A TEXTILE FABRIC
John H. Abt, New York, N. Y., assignor to Deering Milliken & Co., Inc., New York, N. Y., a corporation of New York
Application April 29, 1942, Serial No. 106,743
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown.

132,799
DESIGN FOR A TEXTILE FABRIC
John H. Abt, New York, N. Y., assignor to Deering Milliken & Co., Inc., New York, N. Y., a corporation of New York
Application May 9, 1942, Serial No. 106,843
Term of patent 3½ years



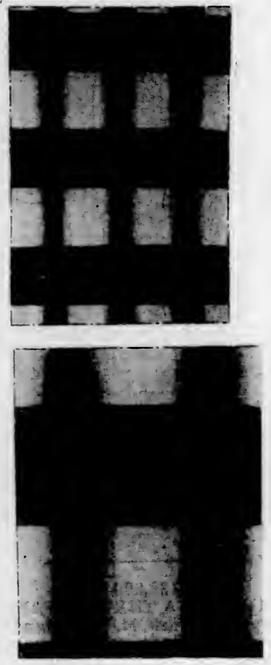
The ornamental design for a textile fabric, substantially as shown.

132,800
DESIGN FOR A TEXTILE FABRIC
John H. Abt, New York, N. Y., assignor to Deering Milliken & Co., Inc., New York, N. Y., a corporation of New York
Application May 9, 1942, Serial No. 106,844
Term of patent 3½ years



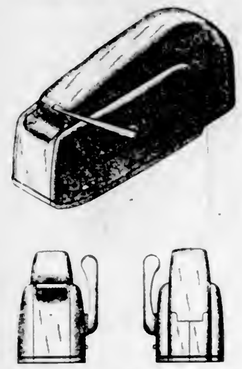
The ornamental design for a textile fabric, substantially as shown.

132,801
DESIGN FOR A TEXTILE FABRIC
John H. Abt, New York, N. Y., assignor to Deering Milliken & Co., Inc., New York, N. Y., a corporation of New York
Application March 4, 1942, Serial No. 106,074
Term of patent 3½ years



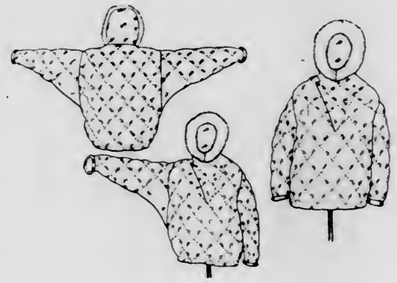
The ornamental design for a textile fabric, substantially as shown.

132,802
DESIGN FOR A STRIP SERVER
Egmont Arens, Southport, Conn., assignor to Nashua Gummed and Coated Paper Company, Nashua, N. H., a corporation of Massachusetts
Application January 20, 1942, Serial No. 105,326
Term of patent 14 years



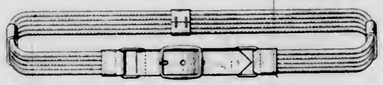
The ornamental design for a strip server, substantially as shown.

132,803
DESIGN FOR A PARKA JACKET
Eddie Bauer, Seattle, Wash.
Application January 18, 1941, Serial No. 98,179
Term of patent 14 years



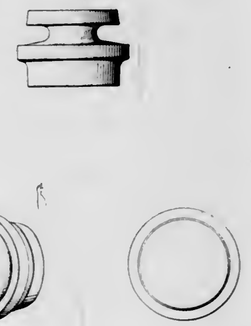
The ornamental design for a parka jacket, as shown.

132,804
DESIGN FOR A BELT
Stanley Barbara, Bronx, N. Y.
Application April 8, 1942, Serial No. 106,495
Term of patent 7 years



The ornamental design for a belt, substantially as shown and described.

132,805
DESIGN FOR A BOTTLE CAP
Martin de Botelho, New York, N. Y.
Application November 12, 1941, Serial No. 104,119
Term of patent 3½ years



The ornamental design for a bottle cap, substantially as shown.

132,806
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application March 30, 1942, Serial No. 106,361
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,807
DESIGN FOR A DRESS
Minna Fields, New York, N. Y.
Application May 11, 1942, Serial No. 106,850
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

132,808
DESIGN FOR A DRESS
Minna Fields, New York, N. Y.
Application May 11, 1942, Serial No. 106,851
Term of patent 3½ years



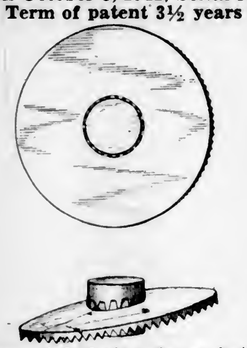
The ornamental design for a dress, substantially as shown.

132,809
DESIGN FOR A TEXTILE FABRIC
Andrew Flory, New York, N. Y., assignor to Frank Associates, Inc., New York, N. Y., a corporation of New York
Application May 11, 1942, Serial No. 106,858
Term of patent 3½ years



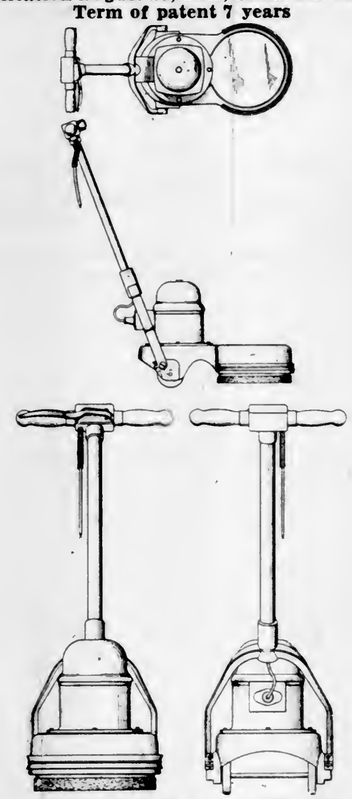
The ornamental design for a textile fabric, substantially as shown and described.

132,810
DESIGN FOR A BOTTLE CLOSURE
Harry C. Glessner, Findlay, Ohio, assignor to The Glessner Company, Findlay, Ohio, a corporation of Ohio
Application October 8, 1941, Serial No. 103,683
Term of patent 3½ years



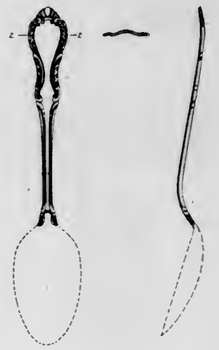
The ornamental design for a bottle closure, as shown.

132,811
DESIGN FOR A FLOOR MAINTENANCE MACHINE
William E. Holt, Oakland, Calif.
Application August 28, 1941, Serial No. 103,072
Term of patent 7 years



The ornamental design for a floor maintenance machine, as shown.

132,812
DESIGN FOR A SPOON OR OTHER ARTICLE OF FLATWARE
Alfred G. Kintz, Wallingford, Conn., assignor to International Silver Company, Meriden, Conn., a corporation of New Jersey
Application April 25, 1942, Serial No. 106,701
Term of patent 14 years



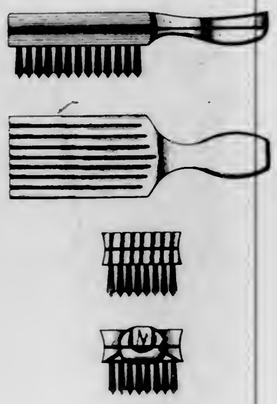
The ornamental design for a spoon or other article of flatware, substantially as shown and described.

132,813
DESIGN FOR A BRUSH
Harold M. Schwartz, New York, N. Y., assignor to Rubberset Company, Newark, N. J., a corporation of New Jersey
Application October 4, 1941, Serial No. 103,633
Term of patent 14 years



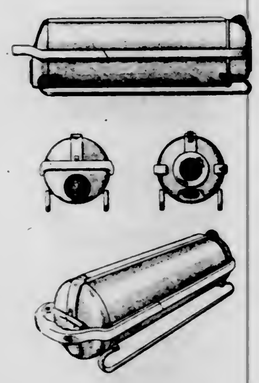
The ornamental design for a brush, as shown.

132,814
DESIGN FOR A BRUSH
Harold M. Schwartz, New York, N. Y., assignor to Rubberset Company, Newark, N. J., a corporation of New Jersey
Application October 4, 1941, Serial No. 103,634
Term of patent 14 years



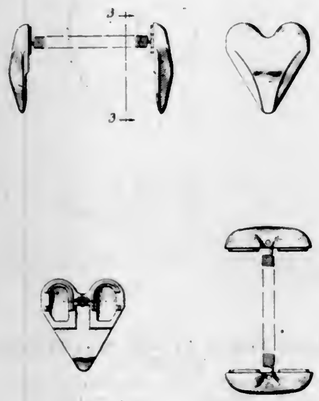
The ornamental design for a brush, as shown.

132,815
DESIGN FOR A VACUUM CLEANER
Clarence Everett Stevens, Greenwich, Conn., assignor to Electrolux Corporation, Dover, Del., a corporation of Delaware
Application February 25, 1942, Serial No. 105,980
Term of patent 14 years



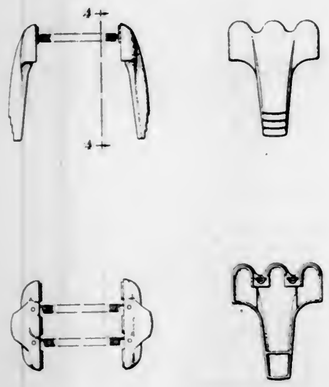
The ornamental design for a vacuum cleaner, as shown.

132,816
DESIGN FOR A HAIR RETAINER FOR SHAVERS
Jan Streng, Mason, N. H., assignor to Remington Rand Inc., Buffalo, N. N. Y., a corporation of Delaware
Application January 9, 1942, Serial No. 105,088
Term of patent 14 years



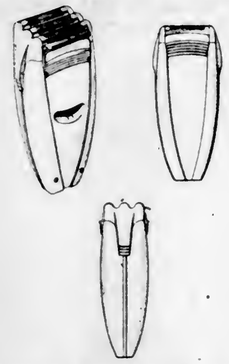
The ornamental design for a hair retainer for shavers, as shown.

132,817
DESIGN FOR A HAIR RETAINER FOR DRY SHAVERS
Jan Streng, Mason, N. H., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application January 9, 1942, Serial No. 105,087
Term of patent 14 years



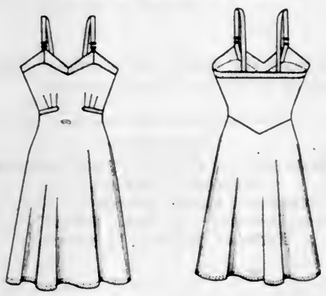
The ornamental design for a hair retainer for dry shavers, as shown.

132,818
DESIGN FOR A DRY SHAVER
Jan Streng, Mason, N. H., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application January 9, 1942, Serial No. 105,086
Term of patent 14 years



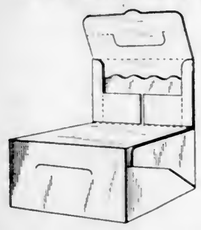
The ornamental design for a dry shaver, as shown.

132,819
DESIGN FOR A SLIP
Semon Wolf, New York, N. Y.
Application May 18, 1942, Serial No. 106,936
Term of patent 14 years



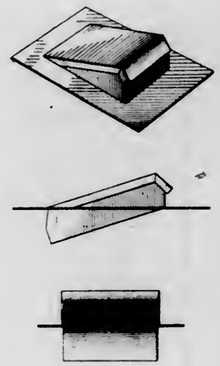
The ornamental design for a slip, substantially as shown.

132,820
DESIGN FOR A DISPENSING CARTON
Zygmunt Wolteger and Henry Lerer, New York, N. Y.
Application January 21, 1942, Serial No. 105,345
Term of patent 14 years



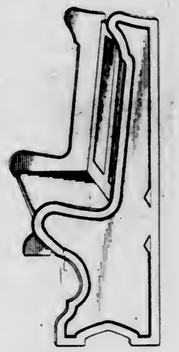
The ornamental design for a dispensing carton, as shown and described.

132,821
DESIGN FOR A SLANT ROOF LOUVER
Freeland H. Leslie, Chicago, Ill.
Application March 30, 1942, Serial No. 106,385
Term of patent 14 years



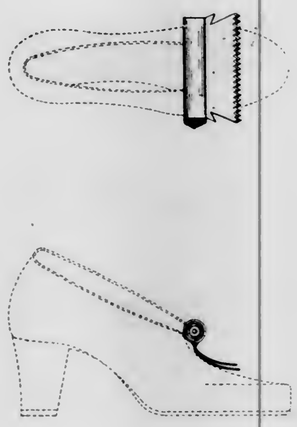
The ornamental design for a slant roof louver, substantially as shown.

132,822
DESIGN FOR A SETTEE
Frank Mastrangelo, Fitchburg, Mass.
Application January 14, 1942, Serial No. 105,199
Term of patent 3½ years



The ornamental design for a settee, as shown and described.

132,823
DESIGN FOR A BLACK-OUT SHOE OR SIMILAR ARTICLE
Grace M. Powell, New York, N. Y.
Application January 14, 1942, Serial No. 105,198
Term of patent 3½ years



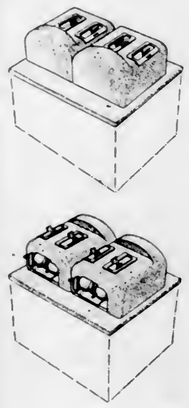
The ornamental design for a black-out shoe or similar article, substantially as shown and described.

132,824
DESIGN FOR A BUTTON OR SIMILAR ARTICLE
Grover A. Whalen, New York, N. Y.
Application May 1, 1942, Serial No. 106,765
Term of patent 7 years



The ornamental design for a button or similar article, substantially as shown.

132,825
DESIGN FOR A DUAL PHONOGRAPH
Simon Yerkovich, Bridgeport, Conn., William J. O'Neil, Atlantic Beach, N. Y., and George W. Cameron, Westport, Conn., assignors to Dictaphone Corporation, New York, N. Y., a corporation of New York
Application March 30, 1942, Serial No. 106,380
Term of patent 14 years



The ornamental design for a dual phonograph, substantially as shown and described.

132,826
DESIGN FOR A JEWELRY FINDING OR SIMILAR ARTICLE
Evangelos Zakos, Brooklyn, N. Y.
Application December 26, 1941, Serial No. 104,855
Term of patent 3½ years



The ornamental design for a jewelry finding or similar article, as shown.

132,827
DESIGN FOR A COLLAR
Hyman Frost, New York, N. Y.
Application April 27, 1942, Serial No. 106,718
Term of patent 3½ years



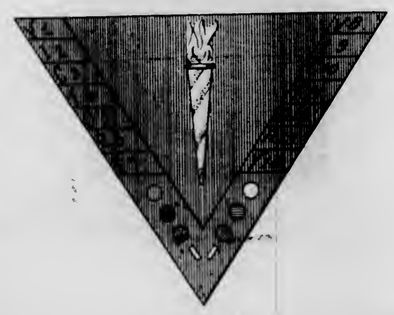
The ornamental design for a collar, substantially as shown.

132,828
DESIGN FOR A COLLAR
Hyman Frost, New York, N. Y.
Application April 27, 1942, Serial No. 106,719
Term of patent 3½ years



The ornamental design for a collar, substantially as shown.

132,829
DESIGN FOR A GAME BOARD
Hubert La Rue, Quebec, Quebec, Canada
Application March 10, 1942, Serial No. 106,143
Term of patent 3½ years



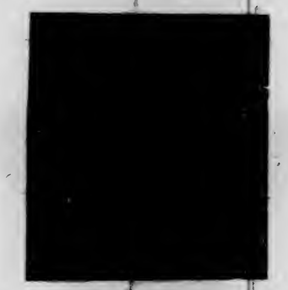
The ornamental design for a game board, substantially as shown and described.

132,830
DESIGN FOR A TEXTILE FABRIC
Hans W. Wilde, North Bergen, N. J.
Application May 23, 1942, Serial No. 106,984
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown and described.

132,831
DESIGN FOR A TEXTILE FABRIC
Hans W. Wilde, North Bergen, N. J.
Application May 23, 1942, Serial No. 106,985
Term of patent 3½ years



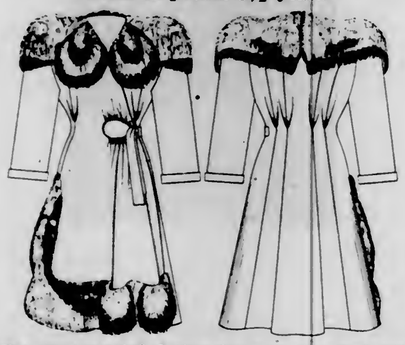
The ornamental design for a textile fabric, substantially as shown and described.

132,832
DESIGN FOR A TABLECLOTH OR SIMILAR ARTICLE
Virginia Winston, Jackson Heights, N. Y.
Application May 23, 1942, Serial No. 106,987
Term of patent 3½ years



The ornamental design for a tablecloth or similar article, substantially as shown.

132,833
DESIGN FOR A COAT
Harry Zuckerman, New York, N. Y.
Application May 18, 1942, Serial No. 106,934
Term of patent 3½ years



The ornamental design for a coat, substantially as shown.

132,834
DESIGN FOR A COAT
Harry Zuckerman, New York, N. Y.
Application May 18, 1942, Serial No. 106,930
Term of patent 3½ years



The ornamental design for a coat, substantially as shown.

132,835
DESIGN FOR A COAT
Harry Zuckerman, New York, N. Y.
Application May 18, 1942, Serial No. 106,931
Term of patent 3½ years



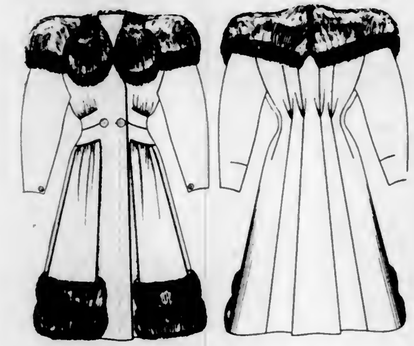
The ornamental design for a coat, substantially as shown.

132,836
DESIGN FOR A COAT
Harry Zuckerman, New York, N. Y.
Application May 18, 1942, Serial No. 106,932
Term of patent 3½ years



The ornamental design for a coat, substantially as shown.

132,837
DESIGN FOR A COAT
Harry Zuckerman, New York, N. Y.
Application May 18, 1942, Serial No. 106,933
Term of patent 3½ years



The ornamental design for a coat, substantially as shown.

132,838
DESIGN FOR A COAT
Harry Zuckerman, New York, N. Y.
Application May 18, 1942, Serial No. 106,929
Term of patent 3½ years



The ornamental design for a coat, substantially as shown.

Patents Nos. 2,287,009 to 2,287,764

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CONTENTS

	Page
ISSUE OF JUNE 23, 1942	739
ADJUDICATED PATENTS	739
ADVERSE DECISIONS IN INTERFERENCE	739
DISCLAIMERS	739
NOTICE OF CANCELLATION	739
BRIEFS IN APPEALED CASES	740
APPLICATIONS UNDER EXAMINATION	740
DECISIONS OF THE U. S. COURTS—	
Normann and Pruckner *v.* Schmidt	741
Reinecke *v.* Getz	745
PATENT SUITS	747
TRADE-MARKS PUBLISHED (113 APPLICATIONS)	749
TRADE-MARK REGISTRATIONS GRANTED	761
TRADE-MARK REGISTRATIONS RENEWED	765
REISSUES	769
PATENTS GRANTED	770
DESIGNS	947

June 23, 1942

Trade-marks	88—No. 395,973 to No.	396,060, inclusive.
T. M. Renewals	60	
Reissues	3—No. 22,123 to No.	22,125, inclusive.
Patents	756—No. 2,287,009 to No.	2,287,764, inclusive.
Designs	35—No. 132,839 to No.	132,873, inclusive.
Total	942	

Adjudicated Patents

(D. C. Cal.) Mehline patent, No. 1,820,624, for metallic tile, claims 1, 5 and 6 *Held* invalid. *Cox* v. *Doherty*, 44 F. Supp. 357.

(D. C. N. Y.) Shalomith patent, No. 1,879,768, for terminal connection for electric lamp sockets, claims 4 and 5 *Held* invalid. *Lew* v. *J. Morris & Co.*, 44 F. Supp. 380.

(C. C. A. Mich.) Lyon patent, No. 1,955,710, for tire cover and mounting for spare wheels, *Held* invalid. *Lyon, Inc.*, v. *Clayton & Lambert Mfg. Co.*, 127 F. (2d) 164.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 2,199,003, H. Z. Lecher, R. P. Parker, and H. P. Orem, Diazo derivatives of guanidyl carboxylic acids, decided May 29, 1942, claims 1, 2, 3, 4, 5, 8, and 9.

Pat. 2,205,663, H. Z. Lecher, R. P. Parker, and H. P. Orem, Ice color producing composition, decided May 29, 1942, claims 1, 2, 3, 4, 7, 8, 9, and 10.

Pat. 2,235,625, W. D. Wolfe, Softener for polymerized materials, decided May 27, 1942, claims 5, 6, 7, and 8.

Disclaimers

2,057,733.—*Royce J. Noble*, Malden, Mass. MANUFACTURE OF RUBBER-BONDED ABRASIVE ARTICLES. Patent dated October 20, 1936. Disclaimer filed May 18, 1942, by the assignee, *Minnesota Mining & Manufacturing Co.*

Hereby enters disclaimer to the subject matter of claims 6, 7, and 8 except as they are read with the words "rubber derived from a compacted pulverulent rubber composition in vulcanized condition" instead of "rubber in vulcanized condition."

2,258,551.—*Paul Grossmann*, Binningen, Switzerland. PROCESS FOR THE MANUFACTURE OF 1-AMINO-4-(4'-HYDROXY)-PHENYLAMINO ANTHRAQUINONES. Patent dated October 7, 1941. Disclaimer filed May 26, 1942, by the assignee, *Society of Chemical Industry in Basle.*

Hereby disclaims alkyl, cycloalkyl and aralkyl radicals from the scope of the definition of R in the first paragraph of the specification of the said patent;

Hereby disclaims the subject matter of the last paragraph of Example 1 of the said patent; and

Hereby disclaims from the scope of each of claims 1, 2, and 3 all compounds corresponding to the formulae of the said claims wherein an R is an alkyl, cycloalkyl or aralkyl radical.

Notice of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., June 4, 1942.*

Bascom Beshong Company, Inc., its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Royal Manufacturing Company, Allentown, Pennsylvania, to effect the cancellation of registration No. 255,057, issued April 9, 1929, to Bascom Beshong Company, Inc., 115 Center Street, Malden, Massachusetts, and a notice of such proceeding sent by registered mail to said Bascom Beshong Company, Inc., at said address having been returned by the post office as undeliverable, notice is hereby given that unless said Bascom Beshong Company, Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Briefs in Appealed Cases

All briefs filed in this Office should have conspicuously printed thereon a statement designating the particular tribunal of the Patent Office to which the brief is addressed.

Condition of Applications Under Examination at Close of Business June 6, 1942

(Total number of applications awaiting action, excluding Trade-Mark Division, 46,490; Trade-Mark Division, 1,096. Oldest new case, Aug. 18, 1941; oldest amended, April 28, 1941.)
(The dates given are 1941 except where † indicates 1942)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Oct. 2	Sept. 27	683
2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Dec. 11	Oct. 6	613
3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	†Jan. 8	†Jan. 24	616
4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating, Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	†Jan. 7	Dec. 23	493
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	†Jan. 2	Dec. 12	413
6. LEWERS, A. M., Carbon Chemistry (part)	Oct. 1	Oct. 10	1305
7. JARBOE, C. G., Optics; Photography	Oct. 3	Oct. 8	1137
8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	Nov. 10	Dec. 4	716
9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Dec. 17	Nov. 29	642
10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.			
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	†Feb. 21	†Feb. 25	344
12. SPINTMAN, SAMUEL (Act.), Machine Elements; Mechanical Starters; Stop Mechanism	Dec. 27	Dec. 10	495
13. BORLIK, F. J., Gear Cutting, Milling, and Planting; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Sept. 13	Sept. 13	612
14. FREEHOF, H. B. (Act.), Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	†Jan. 20	†Jan. 17	606
15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Oct. 23	Oct. 22	1146
16. SPENCER, C. J., Telegraphy; Telephony	Nov. 29	Nov. 29	627
17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Sept. 8	Sept. 4	1018
18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Nov. 24	Oct. 28	578
19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Nov. 5	Nov. 7	618
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	Dec. 29	Dec. 18	386
21. THOMPSON, T. J., Textiles; Cloth Finishing	†Jan. 21	†Feb. 7	376
22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	Aug. 18	Aug. 25	1854
23. BUTTNER, W. J., Registers (part)	Oct. 16	Oct. 7	223
24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Dec. 13	Dec. 15	784
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	†Jan. 13	†Jan. 14	449
26. YOUNG, R. R., Electricity, Generation; Motive Power	Jan. 9	Dec. 31	455
27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	Oct. 18	Nov. 6	482
28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	†Jan. 8	Oct. 4	341
29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	Nov. 12	Nov. 3	645
30. McCANN, L. P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	†Feb. 25	†Mar. 3	395
31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	Dec. 10	Dec. 10	1432
32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Nov. 21	Dec. 6	884
33. KAUFFMAN, H. E. (Act.), Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads.	Dec. 15	Dec. 8	760
34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Surface Track; Track Sanders; Draft Appliances; Signals and Indicators.	†Jan. 28	†Feb. 18	405
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Portable Receptacles	Sept. 15	Aug. 26	1041
36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Dec. 9	Dec. 8	621
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	†Mar. 2	†Feb. 19	462
38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stoneworking; Wells; Plastic Compositions.	Nov. 24	Nov. 24	728
39. WHITNEY, F. L., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	†Jan. 27	†Jan. 24	492
40. DRUMMOND, E. J., Metallic, Wood, Paper, and Special Receptacles	Nov. 1	Nov. 1	1433
41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	Dec. 19	Dec. 20	530
42. CUTTING, H. O., Electric Signaling	Dec. 18	Dec. 9	528
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Sept. 27	Sept. 27	913
44. HARVEY, L. P., Refrigeration	Dec. 20	Dec. 8	319
45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Oct. 13	Nov. 8	717
46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Oct. 24	Oct. 24	761
47. KANOF, W. J., Clutches; Brakes	Sept. 22	Oct. 30	1066
48. ROEPKE, O. B., Electricity, General Applications; Igniters	Nov. 3	Nov. 4	854
49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Dec. 4	Nov. 8	671
50. LEVIN, S., Synthetic Resins; Carbohydrate Derivatives; Rubber Coating Processes	Nov. 3	Nov. 6	1633
51. BACKUS, C. D., Radiant Energy (part)	†Feb. 14	†Feb. 23	412
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	†Feb. 6	†Jan. 8	325
53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Oct. 28	Apr. 28	532
54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	†Jan. 23	†Jan. 7	543
55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	†Jan. 31	†Jan. 31	262
56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Oct. 6	Oct. 14	1361
57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	†Jan. 7	†Jan. 30	235
58. DOWELL, E. F., Abrading; Bottles and Jars	†Feb. 11	Dec. 29	409
59. SHEPPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	Sept. 10	Sept. 15	1536
60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	†Jan. 19	†Jan. 19	308
61. YOUNGKWAI, B., Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	Nov. 10	Nov. 7	819
62. PUGH, E. C., Games; Geometrical Instruments	Nov. 13	Aug. 25	578
63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	Aug. 20	Aug. 23	1314
64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats and Glue; Liquid Coating Compositions; Fuel.	Nov. 27	Nov. 26	1588
65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	Dec. 3	Dec. 2	445
Trade Marks: F. A. RICHMOND	†Apr. 28	†May 6	1096
Designs: H. H. KALUPY	†Apr. 11	†Apr. 18	521

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

NORMANN AND PRUCKNER

v.

SCHMIDT

No. 4,556. Decided February 2, 1942

[125 F.(2d) 162]

1. APPEAL—TITLE OF CAUSE.

Where, as a party to an interference, one Schrauth did not appeal to the Court of Customs and Patent Appeals from the decision of the Board of Appeals adverse to him *Held* that the title of the cause, as returned to that court, should not have included the name of Schrauth as appellee.

2. INTERFERENCE—PATENTABILITY OF COUNTS.

Held that the question whether a party is barred by provisions of sec. 4887 R. S. from receiving a patent may not be considered by the Court of Customs and Patent Appeals upon an appeal from an award of priority in an interference proceeding.

3. SAME—SAME.

"Whether or not a patent shall be granted to a party cannot be determined in an interference proceeding. The only question to be determined is that of priority of invention and questions ancillary thereto. A party may be the first inventor of the subject matter of an interference and yet not be entitled to a patent for the same. That is wholly a matter for ex parte consideration by the Patent Office tribunals."

4. SAME—FOREIGN APPLICATION—REFERENCE TO IN OATH OF U. S. APPLICATION.

Held that the party Schmidt was not concluded by the citation in the oath of his U. S. application in interference of a certain foreign application as embracing the subject matter of the invention involved in interference where said citation may have been due to the common subject matter of said U. S. application and of another U. S. application of which it is a continuation-in-part.

5. FOREIGN APPLICATION—APPLICATION OF "ADDITION".

Filing of a German application of "addition" upon the treatment of carboxylic acids to produce alcohols *Held* clearly to imply that such a discovery was not disclosed in the original German application upon which the "addition" was based.

6. EVIDENCE—JUDICIAL NOTICE—FOREIGN LAWS.

"In their briefs before us both parties undertake to state the German law with respect to 'Patents of Addition', but there is nothing in the record before us to indicate what the German law is upon that subject. It is elementary that courts may not take judicial notice of the provisions of foreign laws."

7. FOREIGN APPLICATION—APPLICATION OF "ADDITION".

Where separate patents issued upon an original German application and upon an "addition" to that application *Held* that it must be assumed that the applications involved separate inventions.

8. INTERFERENCE—CONSTRUCTIVE REDUCTION TO PRACTICE—BRITISH PROVISIONAL SPECIFICATIONS.

Where party Schmidt first filed a provisional specification in Great Britain on March 1, 1930, which specification did not disclose the invention involved in interference and on June 25, 1930, filed a second provisional specification which did disclose said invention, and where later both provisional specifications were combined in one complete specification and a patent issued thereon, *Held* that Schmidt's second provisional specification should be regarded as his first regularly filed application in Great Britain for the invention involved in interference, the fact that the British patent bears the date of the first provisional specification being immaterial, especially in view of the provision of subdivision (2) of section 16 of "Patents and Designs Act, 1907."

9. SAME—SAME—FOREIGN APPLICATION FILED UNDER THE INTERNATIONAL CONVENTION.

"It is clear that it is the first application in a foreign country disclosing the invention, if filed not more than 12 months prior to the date of filing his domestic application, which an applicant is entitled to rely upon for conception and reduction to practice of the invention involved."

10. SAME—PRIORITY.

"Inasmuch as appellee's first application in a foreign country for the involved invention was his German application of April 7, 1930, and as he filed his application in this country within 12 months from such date, he is entitled, as held by the Patent Office tribunals, to the date of April 7, 1930, for conception and constructive reduction to practice of the involved invention. Inasmuch as this date is concededly prior to any date to which appellants are entitled, it follows that appellee is entitled to an award of priority with respect to all of the counts in issue."

11. APPEAL—DIMINUTION OF RECORD—COSTS.

Where if a contention of appellants had been favorably received it would have been necessary for the court to consider certain additional papers certified upon the suggestion of appellee of a diminution of the record *Held* that the costs of printing said additions to the record would be taxed against the appellants.

APPEAL from Patent Office. Affirmed.

Messrs. Watson, Cole, Grindle & Watson (*Mr. Francis G. Cole* and *Mr. Nelson Littell* of counsel) for Normann et al.

Mr. Harold T. Stowell (*Messrs. Hutz* and *Joslin* of counsel) for Schmidt.

LENROOT, *J.*:

This is an appeal in an interference proceeding from a decision of the Board of Appeals of the United States Patent Office affirming a decision of the Examiner of Interferences awarding priority of invention to appellee with respect to the four counts of the interference. Count 1 is illustrative and reads as follows:

1. The process of preparing alcohols comprising subjecting a higher aliphatic carboxylic acid having more than five carbon atoms to a high temperature and pressure adapted to reduce acids to alcohols in the presence of hydrogen and a hydrogenating catalyst until reduction of the acid to alcohol has taken place.

For the purposes of this appeal the involved invention is sufficiently described in the quoted count.

[1] The interference originally involved three parties—appellants, appellee, and one Walther Schrauth. Inasmuch as Schrauth did not appeal from the decision of the Board adverse to him he is not a party to this appeal. The title of the cause as returned to this court erroneously included the name of Schrauth as appellee; he of course is in no way involved in this appeal and the title of the case is changed to conform to this fact.

Appellants' application was filed on July 13, 1931, Serial No. 550,616, and the application of appellee was filed on April 1, 1931, Serial No. 527,060.

The interference was originally declared on May 28, 1936, between appellants and appellee upon a single count, which is count 1 of the instant interference.

During the motion period appellants moved to dis-

solve the interference, alleging inter alia that appellee was barred from receiving a patent on the invention by reason of the issuance to appellee of a patent for the same invention in a foreign country, upon an application filed more than 12 months prior to the filing of his instant application.

Appellants being the junior party, they also moved to shift the burden of proof because of reliance by them upon a German application for the same invention filed by them on July 18, 1930. It further appears that appellants moved to add another count to the interference. Appellee, in response to said motion, filed a certified copy of a German application, No. 12 o 31 317.30, filed by him in Germany on April 7, 1930, disclosing and claiming the here involved invention. Appellee also moved to add 6 counts to the interference.

The Primary Examiner denied appellants' motion to dissolve, the motion to shift the burden of proof, and the motion to add a count to the interference, and the motion of appellee to add counts was granted as to three of them and denied as to the others. The three counts thus added are counts 2, 3, and 4 of the instant interference.

It appears that in their motion to dissolve the interference upon the ground that the claim corresponding to the count was not patentable to appellee, appellants relied principally upon a British patent to appellee's legal representatives, No. 356,731, issued on September 1, 1931, which discloses and claims the subject matter here in issue. It appears that two provisional applications were filed in connection with said patent, one bearing the date of March 1, 1930, and the other the date of June 25, 1930.

The first of said applications does not disclose the involved invention, but only the production of alcohols from the esters of carboxylic acids. The second of said applications discloses the invention here involved, viz., the production of alcohols from carboxylic acids.

The patent issued upon said provisional applications contains claims embracing the production of alcohols from both carboxylic acids and from their esters.

Appellants petitioned the Commissioner of Patents, in the exercise of his supervisory authority, to instruct the Examiner to revise his decision and hold that said English patent constitutes a statutory bar against appellee receiving a patent upon his instant application, and further to revise the Examiner's decision and hold that appellee's instant application was not filed within 12 months of the earliest filed application upon which the British patent was issued, and therefore that appellee must be confined to his domestic filing date for reduction to practice in this country, and that the Examiner should be directed to shift the burden of proof and make appellants the senior party. This petition was denied by the Commissioner.

Thereafter, on October 25, 1937, the interference was redeclared, Schrauth being made a third party thereto, with the three added counts proposed by appellee.

After the redeclaration of the interference appellants renewed their motion to shift the burden of proof, basing such renewal upon the fact that on February 3, 1938, a German patent was published which was issued upon an application of a representative of appellee filed November 20, 1925, which patent, appellants alleged, disclosed the reduction of carboxylic acids to alcohols in accordance with the counts of the interference, and that, as appellants are entitled to the date of their German application, July 18, 1930, it should be held that appellants are the senior party, more than 12 months having elapsed between appellee's first filed foreign application and the filing date of his instant application.

Inasmuch as the filing date of the application of the third party Schrauth antedated the filing dates of the applications of appellants and appellee, he Schrauth became the senior party, and appellee moved to shift the burden of proof as between himself and Schrauth to make appellee the senior party by virtue of the filing date of the German application filed by his representative on April 7, 1930, and by virtue of the filing date of his British provisional specification of June 25, 1930.

The Primary Examiner denied appellants' motion to shift the burden of proof and granted that of appellee.

Thereafter the Examiner of Interferences entered judgment on the record against the junior parties, appellants and Schrauth, and awarded priority of invention to appellee, the senior party.

Appellants appealed from this decision to the Board of Appeals, alleging in their assignments of error, inter alia, a statutory bar against appellee receiving a patent upon his application.

The Board of Appeals dismissed the grounds of appeal relating to patentability of the counts to appellee, and set the appeal for hearing only on the question of priority of invention.

With respect to priority of invention the Board affirmed the decision of the Examiner of Interferences awarding priority of invention to appellee with respect to all of the counts, holding that appellee's first application in a foreign country for the involved invention was filed on April 7, 1930, and that, his instant application having been filed in this country within 12 months from said April 7, 1930, appellee is entitled under the provisions of R. S. 4887 to said last named date for conception and reduction to practice of the invention, and that, as said date is earlier than any date to which appellants are entitled, appellee is entitled to an award of priority.

From such decision appellants have taken this appeal.

R. S. 4887 reads as follows:

Sec. 4887. (U. S. C., title 35, sec. 32.) No person otherwise entitled thereto shall be debarred from receiving a patent for his invention or discovery, nor shall any patent be declared invalid by reason of its having been first patented or caused to be patented by the inventor or his legal representatives or assigns in a foreign country, unless the application for said foreign patent was filed more than twelve months, in cases within the provisions of section forty-eight hundred and eighty-six of the Revised Statutes, and six months in cases of designs, prior to the filing of the application in this country, in which case no patent shall be granted in this country.

An application for patent for an invention or discovery or for a design filed in this country by any person who has previously regularly filed an application for a patent for the same invention, discovery, or design in a foreign country which, by treaty, convention, or law, affords similar privileges to citizens of the United States shall have the same force and effect as the same application would have if filed in this country on the date on which the application for patent for the same invention, discovery, or design was first filed in such foreign country, provided the application in this country is filed within twelve months in cases within the provisions of section forty-eight hundred and eighty-six of the Revised Statutes and within six months in cases of designs, from the earliest date on which any such foreign application was filed. But no patent shall be granted on an application for patent for an invention or discovery or a design which had been patented or described in a printed publication in this or any foreign country more than one year before the date of the actual filing of the application in this country or which had been in public use or on sale in this country for more than one year prior to such filing. [Italics ours.]

[2] Certain of appellants' reasons of appeal allege error by the Board of Appeals in not holding that a statutory bar exists against appellee's receiving a patent for the invention in this country.

That such a question may not be considered by us upon an appeal from an award of priority in an interference proceeding is well-established. *Phelan v. Green*, 21 C. C. P. A. (Patents) 1228, 71 F.(2d) 298, 448 O. G. 511; *Hendrickson et al. v. Ronning et al.*, 22 C. C. P. A. (Patents) 1040, 76 F.(2d) 137, 458 O. G. 4. Therefore these reasons of appeal will not be discussed by us.

[3] In the foregoing quotation of R. S. 4887 we have italicised the only portion thereof which may be considered in the determination of priority of invention in an interference proceeding. The first paragraph of said section clearly relates to the granting of patents, and the same is true of the last sentence of the second paragraph. Of course, whether or not a patent shall be granted to a party cannot be determined in an interference proceeding. The only question to be determined is that of priority of invention and questions ancillary thereto. A party may be the first inventor of the subject matter of an interference and yet not be entitled to a patent for the same. That is wholly a matter for ex parte consideration by the Patent Office tribunals.

Upon the question of priority of invention in the case at bar, it appears that all the parties concerned are citizens of Germany; that appellants are entitled to the date of their German application, July 18, 1930, for conception and constructive reduction to practice of the invention here involved; and the principal question to be determined is the date on which appellee first made application in a foreign country for a patent for the involved invention.

It will be observed from the foregoing statement of facts that appellee had filed both German and British applications for the invention. We will first consider his German application.

It appears that on November 20, 1925, he filed an application disclosing and claiming a process for the making of higher molecular alcohols through treatment of esters of higher molecular carboxylic acids.

On April 7, 1930, he filed an application for the involved invention. This application is termed in the application an "addition" to his application of November 20, 1925.

It appears that separate patents were issued upon said applications, the first being numbered 573,604, covering the treatment of esters of higher molecular carboxylic acids for the making of alcohols, and the second patent, numbered 626,290, for the involved invention of treating carboxylic acids directly for the making of alcohols.

It is appellants' contention that the invention here involved was disclosed in appellee's application of November 20, 1925, and hence that is the date of his first application for the involved invention; which, if true, would relegate appellee to the date of his application in this country for conception and constructive reduction to practice of the invention, in view of the provisions of R. S. 4887.

This contention is based upon a statement in appellee's German Patent No. 573,604 which reads as follows:

• • • In similar manner polyvalent alcohols can be obtained from other di- or tricarboxylic acids and the like and their oxy compounds.

The paragraph from which the above statement is quoted reads as follows:

If we subject the esters of polybasic higher molecular carboxylic acids to hydrogenation with highly active catalysts then usually at first a carboxyl group will be reduced. The reduction may be carried still farther if the reaction is longer or more energetic. For example it is possible to convert adipinic acid ethyl ester via the corresponding oxycarboxylic acid esters into hexandiol which can be hydrogenated further to hexanol. As intermediate products are formed perhaps hexane carboxylic acid ester or hexylaldehyde. In similar manner polyvalent alcohols can be obtained from other di- or tricarboxylic acids and the like and their oxy compounds.

It will be observed from the above quotation that an example is given of the conversion of adipinic acid ethyl ester, and then follows the statement that in similar manner polyvalent alcohols can be obtained from other di- or tricarboxylic acids. We are in agreement with the Primary Examiner and the Board of Appeals that the language relied upon by appellants does not disclose the involved invention, but relates only to the treatment of esters of other acids. There would be no occasion for the use of the word "other" in the statement that alcohols can be obtained from "other di- or tricarboxylic acids" if appellee contemplated the direct reduction of alcohols from such acids. Clearly, the "similar manner" means the treatment of the esters of such acids, which is not the invention before us.

The Patent Office tribunals in passing upon this question apparently assumed that appellee's Patent No. 573,604 conformed to the original specification of the application upon which the patent was issued, and the same assumption was made by the parties in their briefs and upon oral argument before us. However, since the submission of the case to us, appellants have made a motion to correct a diminution of the record, and on certiorari what purports to be appellee's original German application of November 20, 1925, and an amendment made thereto and incorporated therein on April 3, 1930, have been certified to us by the Commissioner of Patents.

The amendment certified to us has no relevancy to the issue before us. It purports to add another example to the application, numbered "Example 5."

This example appears in substantially the same form as Example 3 of the Patent No. 573,604.

However, the phraseology of the patent above discussed is different from the phraseology upon the same subject in the application as originally filed, but in our opinion there is no difference in meaning.

The corresponding paragraph in the original application reads as follows:

> By subjecting the esters of polybasic carboxylic acids to the hydrogenation with highly active catalysts, generally a carboxyl group is first reduced. However, the reduction may be carried still farther by a longer or more energetic reaction. For example it is possible to convert the oxalic acid ester, by way of the glycollic acid ester, finally completely into ethyl alcohol and glycol, which latter may still further be converted in circumstances into ethyl alcohol. In the hydrogenation of the glycollic acid esters, acetic ester and acetaldehyde may also be obtained as intermediate products. Thus the present process offers the possibility of converting the cheap oxalic acid into ethyl alcohol in an excellent yield; by a suitable choice of the experimental conditions, the reaction can be kept at most various intermediate stages. In a similar manner may polyvalent alcohols be obtained from other di- or tri-carboxylic acids etc. and their hydroxy compounds.

It will be observed from the above quotation that the treatment of esters only is contemplated. By way of example the oxalic acid ester is treated to produce ethyl alcohol. Following this it is stated, as is stated in the patent, that in a similar manner polyvalent alcohols may be obtained from other di- or tri-carboxylic acids and their hydroxy compounds. There would be no occasion for the use of the word "other" if this language should be regarded as disclosing a treatment of acids instead of their esters, as the involved invention contemplates.

[4] Appellants point out the fact that in appellee's oath to his application here in interference he cited his application of November 20, 1925, as embracing the subject matter of the invention here involved.

While this is true we do not think appellee is concluded by that fact. His application here involved states that it is a continuation in part of a domestic application filed by him on March 6, 1930, Serial No. 433,840, and while said last-named application is not in the record, appellee's oath above referred to states that said application No. 433,840 and his instant application have certain common subject matter, although nowhere is it claimed that said application No. 433,840 discloses the invention here involved. In view of the fact that appellee's citation of his German application of November 20, 1925, in his oath in his instant application may have been due to the common subject matter of his domestic applications, there is no warrant for attaching to such citation of the German patent of November 20, 1925, the significance contended for by appellants.

[5] In any event, appellee's German application of April 7, 1930, termed "Addition to" his application of November 20, 1925, clearly implies that the treatment of carboxylic acids to produce alcohols is a discovery not disclosed in his application of November 20, 1925.

For the reasons stated, we are of the opinion that the invention here involved was not disclosed in appellee's November 20, 1925, German application.

[6] In their briefs before us both parties undertake to state the German law with respect to "Patents of Addition," but there is nothing in the record before us to indicate what the German law is upon that subject. It is elementary that courts may not take judicial notice of the provisions of foreign laws.

[7] Inasmuch as it appears that separate patents were issued upon appellee's German applications of November 20, 1925, and April 7, 1930, we must assume that the applications involved separate inventions, and as appellee's application of April 7, 1930, was the first German application to disclose the involved invention, we must hold that appellee is entitled to the date of April 7, 1930, as the date of his first application in a foreign country unless his patent application in England for the involved invention was, as a matter of law, of an earlier date.

[8] As hereinbefore stated, appellee first filed a provisional specification in England on March 1, 1930, which specification did not disclose the invention here involved, but disclosed the reduction of esters only; on June 25, 1930, he filed a second provisional specification which did disclose the involved invention. Later both provisional specifications were combined in one complete specification and a patent was issued covering the reduction of polycarboxylic acids and their derivatives, which would include the esters of such acids.

There is found in the record what purports to be the British statute relating to the granting of patents upon provisional specifications. Both of the parties hereto apparently have accepted the provisions set forth in the record as correct and we therefore shall do likewise. Section 16 of that statute, which is entitled "Patents and Designs Act, 1907," relates to cases where two or more provisional specifications for inventions have been filed. Subdivision (2) of said section reads as follows:

> (2) Such patent shall bear the date of the earliest of such applications, but in considering the validity of the same, and in determining other questions under this act, the court or the comptroller, as the case may be, shall have regard to the respective dates of the provisional specifications relating to the several matters claimed in the complete specification.

Inasmuch as appellee's first provisional specification did not disclose the invention here involved, it cannot be truly said that it was for the "same invention" as that disclosed and claimed in his domestic application here involved. Appellee's second provisional specification did disclose the invention and should be regarded as his first regularly filed application for a patent in Great Britain for the invention here claimed by him. That the British patent bears the date of the first provisional specification is immaterial, especially in view of the provision of subdivision (2) of section 16, supra.

[9] It would be most extraordinary if a party should be considered to have filed an application for a specific invention in a foreign country on the date of filing an application which did not disclose that invention, and it is inconceivable that Congress so intended.

Appellants rely upon four cases in support of their contention that appellee's provisional specification of March 1, 1930, should be regarded as the earliest date on which he filed a foreign application for the invention here involved. These cases are *Ex parte Smith*, 1898 C. D. 276, 85 O. G. 2091; *In re Swinburne*, 19 App. D. C. 565, 1902 C. D. 537, 99 O. G. 1626; *In re Bastian*, 44 App. D. C. 425, 1916 C. D. 160, 225 O. G. 1106, and Manuscript Decision of the Board of Appeals, Appeal No. 13,305, of March 20, 1935.

We have examined the cases cited. The case of *Ex parte Smith*, supra, merely held that the date of a British provisional specification disclosing an invention should be regarded under R. S. 4887 as the date of the application rather than the date of the completed specification.

To the same effect is the case of *In re Swinburne*, supra.

Therefore neither of these cases has any relevancy to the question before us.

The case of *In re Bastian*, supra, does sustain appellants' contention in that the provisional specification there involved did not disclose the invention patented, and described in the completed specification; but nevertheless the court held that the date of the patentee's provisional specification should be regarded as the date of his application for the patent issued upon the completed specification.

In so far as the last-cited case is concerned, we are not in agreement therewith. Cases to the contrary are *American Stainless Steel Co.* v. *Rustless Iron Corporation*, 2 F. Supp. 742; *Handley Page, Ltd.*, v. *Leech Aircraft, Inc.*, 35 F. Supp. 856; and *Woburn Degreasing Co.* v. *Spencer Kellogg & Sons*, 40 F. Supp. 357.

The cited manuscript decision of the Board of Appeals of March 20, 1935, follows the ruling in the case of *In re Bastian*, supra.

As hereinbefore indicated, we are in accord with the holding of the Patent Office tribunals that the date of appellee's first British provisional specification, viz., March 1, 1930, should not be regarded as the date of appellee's British application for the involved invention for the reason that said provisional specification did not disclose it, and that the date of his second provisional specification, filed June 25, 1930, which did disclose the invention, should be regarded as the date of his British application in so far as the invention here involved is concerned.

Section 4887, R. S., supra, provides that a domestic application for a patent filed by any person who has

> "previously regularly filed an application for a patent for the same invention * * * in a foreign country which, by treaty, convention, or law, affords similar privileges to citizens of the United States shall have the same force and effect as the same application would have if filed in this country on the date on which the application for patent for the same invention * * * was *first* filed in such foreign country,"

provided that the domestic application is filed within 12 months from the earliest date on which any such foreign application was filed. [Italics ours.]

[10] From the foregoing it is clear that it is the first application in a foreign country disclosing the invention, if filed not more than 12 months prior to the date of filing his domestic application, which an applicant is entitled to rely upon for conception and reduction to practice of the invention involved.

As hereinbefore stated, we find, as did the Patent Office tribunals, that appellee is entitled to the date of April 7, 1930, as the date of his first application for a patent for the involved invention in Germany, and the date of June 25, 1930, as the date of his first application for a British patent for the involved invention.

[11] Inasmuch as appellee's first application in a foreign country for the involved invention was his German application of April 7, 1930, and as he filed his application in this country within 12 months from such date, he is entitled, as held by the Patent Office tribunals, to the date of April 7, 1930, for conception and constructive reduction to practice of the involved invention. Inasmuch as this date is concededly prior to any date to which appellants are entitled, it follows that appellee is entitled to an award of priority with respect to all of the counts in issue.

[12] Upon the suggestion of appellee of a diminution of the record, on certiorari certain additional parts of the record relating to the exercise of supervisory authority of the Commissioner of Patents, hereinbefore referred to, were certified to the court by the Patent Office. Our order provided that the costs incident thereto should be subsequently taxed by us. Upon inspection of these papers so certified, we find that they are properly a part of the record in view of appellant's contention with respect to a statutory bar against appellee's receiving a patent, and appellee's position with respect thereto. While we have not found it necessary to do more than merely refer to these papers in our discussion, it would have been necessary for us to consider them had we given to certain provisions of section 4887, R. S., supra, the construction contended for by appellants. Therefore the costs of printing said additions to the record will be taxed against appellants.

For the reasons herein stated, the decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

REINECKE *v.* GETZ

No. 4,557. Decided March 23, 1942

[126 F.(2d) 498]

INTERFERENCE—PRIORITY

Evidence reviewed and *Held* that R, the junior party, did not prove by corroborated evidence that he conceived the process in controversy prior to the filing date of G, the senior party, and that priority properly was awarded to G.

APPEAL from Patent Office. Affirmed.

Messrs. Pennie, Davis, Marvin & Edmonds (*Mr. A. A. Arnold* and *Mr. C. M. Fisher* of counsel) for Reinecke.

Mr. Albert Grobstein and *Mr. W. S. McDowell* (*Mr. George E. Stebbins* of counsel) for Getz.

JACKSON, *J.*:

This is an appeal in an interference proceeding from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Examiner of Interferences awarding priority of invention of the subject matter in issue to appellee.

The counts of the interference, which were suggested by the Primary Examiner for purposes of interference, read as follows:

1. The process of producing an aerated product which consists in causing an edible fat-containing liquid to absorb nitrous oxide under pressure and suddenly releasing the pressure so as to yield a highly aerated foaming product.

2. The process of producing an aerated cream which consists in dissolving a quantity of nitrous oxide under pressure in a liquid carrying cream and thereafter releasing the pressure simultaneously therewith forming a product having the consistency of whipped cream.

The involved invention relates to a process of producing an aerated food product such as whipped cream. Liquid cream is placed in a closed container, built to sustain pressure, into which nitrous oxide gas under pressure is introduced. The cream by reason of solution with the gas under pressure becomes charged therewith and is then ready to be discharged from the container. As the charged cream is released from the container into the open air the pressure is released and the nitrous oxide gas in the cream expands into the form of minute gas bubbles. The cream filled with the bubbles is the whipped cream. The process is quite similar to that of impregnating water with gas to make charged or sparkling water and discharging the charged water from a syphon.

The interference arises between two applications for patent, that of appellant Serial No. 73,486, filed April 9, 1936, a division of an earlier application Serial No. 36,338, filed August 15, 1935, and appellee's application Serial No. 42,225, filed September 26, 1935, a continuation of his earlier and abandoned application Serial No. 710,236, filed February 8, 1934. Appellant is therefore the junior party and had the burden to establish priority of invention by a preponderance of evidence.

Both parties filed preliminary statements and took testimony.

The Examiner of Interferences, after analyzing the record of appellant held that the evidence offered to corroborate that of appellant failed "to show that the invention was fully disclosed by him [appellant] to any of the witness[es] as of a date prior to the senior party's record date." The Examiner therefore held that appellant could not prevail.

While the Examiner of Interferences stated that it was unnecessary to do so, he did briefly discuss the record made on behalf of appellee "in view of the possibility that a different viewpoint may be adopted on appeal." The Examiner then stated it had been convincingly established that appellee reduced the invention to practice no later than the month of October 1933 and that appellant in his brief conceded that appellee had reduced the invention to practice on September 29, 1933.

The Examiner of Interferences on the entire record awarded priority of invention of the subject matter in issue to appellee, on the ground that he was the first to conceive and the first to reduce the invention to practice.

After an appeal had been taken to the Board of Appeals, a decision of the Commissioner of Patents, duly made in response to a petition praying that the interference be reopened for the purpose of enabling appellee to present evidence attacking the record of appellant in respect to Exhibits 1, 2 and 13, states as follows:

> The allegations are of such a nature that it is considered advisable that the parties be given the opportunity of presenting testimony relative thereto. Since the nature of the testimony to be taken is such that it could not alter the award of priority entered by the Examiner of Interferences, the case will not be remanded to him but the testimony will be admitted for consideration on appeal.
>
> In connection with this testimony the Board of Appeals will, of course, consider the Commissioner's notice of August 21, 1933, published in 434 O. G. 1.
>
> In the absence of express permission, the testimony must be confined strictly to the matters set forth in the petition and the supporting affidavits.

No motion was made by appellant to reopen the case for any purpose.

In accordance with said decision of the Commissioner of Patents testimony was taken and exhibits received in evidence on behalf of appellee, and evidence received in purported rebuttal on behalf of appellant.

Subsequently a motion to suppress certain designated portions of the evidence taken on behalf of appellant, in the subsequent proceedings, was made by appellee on the ground that the said evidence was not within the scope of the matters set forth in the said petition of appellee and "was an attempt to re-take and patch up Reinecke's prima facie case as presented before the Examiner of Interferences."

In its decision the Board of Appeals disposed of the motion in language as follows:

> Motion has been made to suppress parts of the testimony taken on reopening in behalf of Reinecke in that it goes beyond the scope of showing specifically directed by the order reopening the record. We find this to be true and have given no consideration to parts of that record except that relating to Reinecke's Exhibits 1, 2 and 13.

In dealing with the direct appeal, the Board of Appeals set out in fairly detailed fashion, but thoroughly correct and adequate, the record on behalf of appellant. The testimonial record is long and we adopt for convenience and in the interest of brevity the language of the Board which reads as follows:

> Generally, the history of the invention, as asserted by Reinecke in the original record, is that in the early part of 1929, while upon a special diet involving considerable milk and cream, he conceived the idea of inflating the cream to convert it into a kind of whipped cream condition by impregnating it with carbon dioxide gas under pressure and then releasing it. He alleges that he performed this experiment in a conventional seltzer bottle of the self-carbonating type, that is, where a small ampule of liquid carbon dioxide gas was released into the bottle after having the cream placed therein. Reinecke states that the cream was converted to an expanded or whipped like condition but that it "tasted sour-like." This may have been an original discovery on the behalf of Reinecke although it seems indicated in the record that such effect was known. However, it is entirely irrelevant to the issue since each count definitely requires employment of nitrous oxide gas rather than carbon dioxide gas. Reinecke asserts further that at that time he conceived the idea of employing such kind of gas that would not impart the sour taste to the cream and hit upon the idea of phoning the Ohio Chemical Company office in New York City for information concerning possible gases that might be suitable in place of carbon dioxide and that the company suggested nitrous oxide gas was similar. No direct weight need be given to this item since it was wholly a mere oral uncorroborated statement by Reinecke. Reinecke asserts that he then requested "a chap that he met several times prior to his getting this data for me" to go to the Library apparently in Brooklyn, New York where Reinecke resided, to obtain information about nitrous oxide. At this point the three-paged document designated Reinecke Exhibit 1 was introduced as being the memorandum produced by the aforesaid chap. The document is undated and merely contains some memorandum concerning general properties of carbon dioxide CO_2 and nitrous oxide N_2O. The alleged chap of 1929 was not produced so that so far as merits of Exhibit 1 as of that date are concerned, we hold that it is entirely uncorroborated and irrelevant to the definite terms of the counts, there being no reference in Exhibit 1 to cream. It may be noted at this point that it was admitted by Reinecke in the evidence taken upon reopening that this document was not prepared in 1929 at all or by the alleged chap, but in 1937 after this interference was started and by another person.
>
> We have carefully considered the remainder of Reinecke's original record and find similar lack of corroboration throughout the same of specifically inflating or whipping cream by means of nitrous oxide. We have carefully reviewed Reinecke's record giving consideration to each witness. It seems possible but rather uncertainly established that Reinecke had manufactured some three or four brass cylinders in which he claims to have experimented with processes of whipping cream it seems promiscuously with carbon dioxide with hints of use of nitrous oxide. Reinecke claims to have secured nitrous oxide from a couple of Dentist Supply stations and to have purchased a cylinder of liquefied nitrous oxide gas such as sold to dentists. Corroboration as to all of this is found quite meager and uncertain as to whether it was employed in whipping cream. It is clear from the testimony of all parties concerned that either they did not take interest in what Reinecke was doing or because he possibly kept the idea secret, that none of the witnesses called testified as to the particular requirements of the counts, that is, the association of nitrous oxide with the whipping of cream. Only one witness—Roisman—broadly states that Reinecke at one time produced some whipped cream from a "gadget" and placed it upon a piece of pie.

The Board further in its decision analyzed in greater detail the evidence produced on behalf of appellant intended to corroborate his story. We do not deem it necessary to discuss this portion of the decision. It suffices to state from a careful examination of the record that we are in complete accord with the conclusion of the Board which stated:

> We accordingly hold that proofs submitted on behalf of Reinecke totally fail to corroborate any conception of the details of the counts by him prior to the senior party's record date. He is therefore unable to prevail.

It is clear to us that on the evidence as it was presented to the Examiner of Interferences no error was committed by him in granting priority of the involved subject matter on appeal. We further hold that the evidence contained in the direct appeal fully justified the Board in affirming the Examiner.

With respect to the testimony taken on reopening the proceedings it was conclusively shown by appellee that Exhibit 1 could not have been written in 1929 for the reason that the watermark appearing in the paper was not employed by any paper manufacturer until 1933 or 1934. At the subsequent hearing appellant admitted that the said exhibit was not written until 1937 and that his former testimony that it was written in 1929 was not correct. We are not impressed with the excuses made by appellant for the admitted error.

Exhibit 1 admittedly written in 1937 notes the same similarity between the physical properties of carbon dioxide and nitrous oxide and also cites Thorpe, an authority on applied chemistry, all of which appears in Exhibit 2. Exhibit 2 seems to copy over, and to some extent depends upon, data shown in Exhibit 1. No reference is made to whipping cream in Exhibit 2 and it lacks utterly any corroboration.

With respect to Exhibit 13 the Board stated as follows:

> In connection with Reinecke's Exhibit 13, Getz endeavors to prove that the memorandum furnished by Dr. Bernstein while dated September 24, 1933, is upon a letter form sheet bearing a certain street address and a telephone number which was not connected and placed in service until March 19, 1934. An elaborate explanation was presented upon behalf of Reinecke in this connection. Like the explanation of the situation as to Exhibit 1, the situation in explanation of the apparent unreasonable use of letter heads having street address and telephone number not actually in use until later, seems highly improbable although of course it would possibly not be impossible.

We are of opinion that the said Exhibits 1, 2 and 13, even without the doubt cast upon their validity during the second taking of testimony, are insufficient together with the rest of the record to entitle appellant to an award of priority. Considered in the case on the entire record we think they are worthless.

There can be no doubt that appellant in his so-called rebuttal testimony went far afield from the matters upon which evidence was to be adduced after the case had been reopened. It serves no useful purpose here to set out what the Board would not consider. It suffices to say that appellant attempted to present proof that had no possible bearing upon the validity of his Exhibits 1, 2 and 13 and which properly should have been presented in his case in chief or adduced under permission by the Patent Office to reopen his case in chief for such purpose.

The holdings below were proper and therefore the decision of the Board of Appeals is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,484,940, 1,767,174, E. Gathmann, Ingot mold and ingot, D. C. Dela., Doc. 122, *E. Gathmann, et al.* Dismissed by stipulation, without prejudice (notice Mar. 26, 1942).

1,542,341. (See 1,819,641.)

1,700,428, J. L. Breese, Jr., Thermostatic valve control; 1,845,999, same, Fuel control means for a hydrocarbon burner, filed Mar. 27, 1942, D. C., N. D. Calif. (San Francisco), Doc. 22,138–W, *Oil Devices, et al.* v. *D. H. McCorkle Co., et al.*

1,767,174. (See 1,484,940.)

1,773,695, C. W. Morden, Method for concealing the visibility of joints in a composite surface; 1,941,769, G. J. Ward, Impregnated fibrous block; 2,163,757, MacLean & Pollard, Apparatus for weatherproofing composition board, D. C., N. D. Ill., E. Div., Doc. 2295, *Mastic Asphalt Corp.* v. *Ford Roofing Products Co.* Claims 2 and 4 of 1,773,695, claim 3 of 1,941,769 and claims 1, 5, 9, 10, 12, and 13 of 2,163,757 held invalid; bill dismissed for want of equity Mar. 16, 1942.

1,790,603, 1,910,186, M. A. Sisk, Surface drain, filed Dec. 4, 1940, 2,216,300, R. H. Shenk, Interceptor, included by counterclaim Feb. 26, 1942, D. C., W. D. Pa., Doc. 30, *Josam Mfg. Co., et al.* v. *J. A. Zurn Mfg. Co.*

1,819,641, E. Davis, Control for fluid motors; 1,958,533, same, pressing machine; 1,542,341, O. R. Deckert, same, D. C., S. D. N. Y., Doc. 7/300, *The Prosperity Co., Inc.*, v. *Midtown Laundry Co., Inc.* Consent judgment (notice April 4, 1942).

1,845,999. (See 1,700,428.)

1,846,863, H. F. Hagen, Fan and method of operating same; 1,989,413, same, Centrifugal fan, D. C. Mass., Doc. E 4327, *B. F. Sturtevant Co.* v. *Mass. Hair & Felt Co.* Decree affirmed as to Hagen's first patent and reversed as to his second patent; case remanded to District Court for further proceedings April 2, 1942.

1,879,863. (See Re. 19,744.)

1,893,670, M. H. Goodner, Resuscitator and the like; 2,138,845, C. N. Erickson, Combined resuscitator and inhalator, D. C., S. D. N. Y., Doc. 13/317, *C. N. Erickson* v. *J. H. Emerson, et al.* Dismissed as to defendant Emerson July 18, 1941. Stipulation of discontinuance April 2, 1942.

1,903,957, T. B. Clark, Water softening system and means for controlling operation thereof; 1,931,968, Sweeney & Clark, Means for actuating water softeners; 1,954,405, A. J. Dotterweich, Water-softening apparatus; 2,076,321, E. Pick, Plural valve actuation and control; filed Mar. 27, 1942, D. C., W. D. Wis. (Madison), Doc. 333, *The Pemutit Co.* v. *The Village of Poynette, Wisc.*

1,910,186. (See 1,790,603.)

1,925,893. (See Re. 17,610.)

1,931,968. (See 1,903,957.)

1,935,592, 1,959,647, J. M. Stivers, Abrading device, filed Mar. 24, 1942, D. C., W. D. Mo. (Joplin), Doc. 181, Bell-Sorenson Corp. v. *H. E. Williams Products Co.*

1,941,769. (See 1,773,695.)

1,946,229. (See Re. 19,666.)

1,954,405. (See 1,903,957.)

1,958,533. (See 1,819,641.)

1,959,647. (See 1,935,592.)

1,962,395. (See Re. 19,562.)

1,989,413. (See 1,846,863.)

2,026,513. (See Re. 21,497.)

2,033,467, W. C. Groeniger, Air valve-vacuum breaker; 2,117,389, H. D. Yoder, Vacuum or syphon breaker, D. C. Dela., Doc. 19, *John B. Pierce Foundation, et al.* v. *Penberthy Injector Co.* Claim 4 of plaintiff's patent 2,033,467 as against defendant's patent 2,117,389 held valid, claim 8 of 2,117,389 held invalid (notice Mar. 26, 1942).

2,034,697, F. Factor, Cosmetic make-up base and method of manufacture; 2,101,843, Factor and Fisher, Dry make-up cosmetic in solid cake form, D. C., S. D. Calif. (Los Angeles), Doc. 1840–BH, *Max Factor & Co.* v. *Colonial Dames, Inc., et al.* Dismissed without prejudice Mar. 30, 1942.

2,076,321. (See 1,903,957.)

2,079,107. (See Re. 19,562.)

2,101,843. (See 2,034,697.)

2,107,449, H. J. Marlowe, Exercising machine; 2,173,691, same, Exercising toy, D. C., E. D. Pa., Doc. 1420, *Exercycle Corp., et al.* v. *Slimachine Co., et al.* Consent judgment for plaintiff Mar. 25, 1942.

2,115,839, C. J. Briefer, Electric lamp; 2,151,686, same, Electric lamp and process of making same; filed Mar. 28, 1942, D. C., E. D. N. Y., Doc. 2636, *C. J. Briefer* v. *Wabash Appliance Corp.*

2,117,389. (See 2,033,467.)

2,138,845. (See 1,893,670.)

2,151,686. (See 2,115,839.)

2,163,757. (See 1,773,695.)

2,165,227, B. Cooper, Switch; 2,166,090, same, Treadle controlled system; 2,205,555, same, Treadle circuit, D. C., S. D. N. Y., Doc. 14/283, *Taller & Cooper* v. *Westchester Co. of New York.* Dismissed without prejudice (notice April 2, 1942).

2,166,090. (See 2,165,227.)

2,173,691. (See 2,107,449.)

2,187,528, R. T. Wing, Fountain pen; 2,223,541, M. S. Baker, same; Des. 116,097, K. S. Parker, same; Des. 116,098, Parker & Baker, Fountain pen barrel, filed Mar. 25, 1942, D. C., N. D. Ill., E. Div., Doc. 4069, *The Parker Pen Co., et al.* v. *W. A. Sheaffer Pen Co.*

2,195,839, 2,238,813, J. L. Kleinman, Razor, D. C., S. D. N. Y., Doc. 14/394, *J. L. Kleinman* v. *Davega-City Radio, Inc.* Consent order dismissing action with prejudice April 2, 1942.

2,205,555. (See 2,165,227.)

2,216,300. (See 1,790,603.)

2,223,541. (See 2,187,528.)

2,226,007. (See 2,265,625.)

2,229,704. (See Re. 22,037.)

2,238,813. (See 2,195,839.)

2,265,625, G. J. Buck, Detachable trolling plate for outboard motors; 2,226,007, A. J. McGrete, Trolling attachment for motor-boats, filed Mar. 26, 1942, D. C. Minn. (Minneapolis), Doc. 666, *Peterson Sales Co.* v. *Champion Outboard Motor Co., et al.*

Re. 17,610, E. R. Whitney, Delivery truck; 1,925,893, G. M. Bacon, Milk delivery motor vehicle, D. C., E. D. Mich., S. Div., Doc. 1104, *Auburn Automobile Co., et al.* v. *Divco-Twin Truck Co.* Stipulation and order of dismissal (notice Mar. 26, 1942).

Re. 19,562 (of 1,962,395), J. Jones, Mask for fowl, 2,079,107, J. C. Cridlebaugh, Device to prevent picking in poultry, D. C., W. D. Wash. (Seattle), Doc. 441, *The Marvel Co.* v. *Montgomery Ward & Co.* Dismissed Mar. 25, 1942.

Re. 19,666 (of 1,946,229), W. G. McMurray, Method of and apparatus for the separation of oil, gas and water, D. C., N. D. Tex. (Wichita), Doc. 117, *M. & V. Tank Co.* v. *National Tank Co.* Dismissed Mar. 27, 1942.

Re. 19,744 (of 1,879,863), H. A. Wheeler, Volume control, D. C., N. D. Ill., E. Div., Doc. 15/214, *Hazeltine Corp.* v. *Zenith Radio Corp.* Bill and counterclaim dismissed without prejudice Jan. 15, 1942.

Re. 21,497 (of 2,026,513), P. Trombetta, Electromagnetic brake, filed Mar. 28, 1942, D. C., E. D. Wis. (Milwaukee), Doc. 726, *Stearns Magnetic Mfg. Co.* v. *P. Trombetta.*

Re. 22,037 (of 2,229,704), filed Mar. 26, 1942, D. C., N. D. Ohio, E. Div., Doc. 20,869, *Markel Electric Products, Inc.* v. *Railley Corp.*

Des. 116,097. (See 2,187,528.)

Des. 116,098. (See 2,187,528.)

T. M. 36,608, W. K. Peek, Corn cure; T. M. 249,562, Manhattan Drug Co., Foot powder, foot-bath tablets, and corn solvents, D. C., N. D. Ill., E. Div., Doc. 3004, *Manhattan Drug Co.* v. *Walgreen Co.* Dismissed without prejudice Mar. 27, 1942.

T. M. 249,562. (See T. M. 36,608.)

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 23, 1942

[VOL. 539. No. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 448,388. KOFSKY BROS., INC., New York, N. Y. Filed Nov. 4, 1941.

KOFSKY DYE BELL-TONE KRIMMER

No claim is made to the words "Dye" and "Krimmer" apart from the mark.

FOR FUR SKINS IN THE PIECE.

Claims use since Oct. 14, 1941.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 452,913. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed May 9, 1942.

PAS'MASTER

FOR BILLFOLDS.

Claims use since July 27, 1940.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 451,768. GENERAL CHEMICAL COMPANY, New York, N. Y. Filed Mar. 20, 1942.

SWING

FOR PASTE CLEANSER SUITABLE FOR CLEANING PAINTED SURFACES.

Claims use since Feb. 12, 1942.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 443,432. WM. P. POYTHRESS & CO. INC., Richmond, Va. Filed May 9, 1941.

BENSULFOID

FOR PREPARATION IN TABLET OR POWDER FORM FOR INTERNAL OR EXTERNAL USE IN ANY HUMAN AILMENT, SKIN DISEASE, OR SKIN INFECTION IN WHICH THE EXTERNAL OR INTERNAL USE OF SULPHUR MAY BE CONSIDERED THERAPEUTICALLY OR PALLIATIVELY DESIRABLE.

Claims use since Oct. 25, 1940.

Ser. No. 447,508. PETER CH. CHRISTENSEN, Newark, N. J. Filed Oct. 3, 1941.

nite B4's

No claim is made for the vitamin designation "B4" apart from the association shown.

FOR VITAMIN TABLETS AND CAPSULES.

Claims use since Aug. 22, 1941.

Ser. No. 449,065. PARFUMS SCHIAPARELLI, INC., New York, N. Y. Filed Nov. 29, 1941.

Sleeping

FOR PERFUMES, TOILET WATERS, ROUGES, LIPSTICKS, FACE CREAMS AND FACE POWDERS AND BODY DUSTING POWDERS.

Claims use since Mar. 1, 1940.

Ser. No. 450,732. DEUTSCHE GOLD- UND SILBER-SCHEIDEANSTALT VORMALS ROESSLER, Frankfort-on-Main, Germany. Filed Feb. 4, 1942.

DURFERRIT

FOR CHEMICAL PRODUCTS FOR INDUSTRY PURPOSES—NAMELY, HARDENING AND SOLDERING COMPOUNDS.

Claims use since Sept. 23, 1926.

Ser. No. 451,037. HAROLD HOFFMAN, New York, N. Y. Filed Feb. 17, 1942.

LICOROL

FOR COMBINATION OF EXTRACTS OF NATURAL MATERIALS USED AS A SUBSTITUTE FOR SPANISH MASS, AND LICORICE.
Claims use since Jan. 2, 1942.

Ser. No. 451,972. FOUNDRY SERVICES, INC., New York, N. Y. Filed Mar. 28, 1942.

FOSECO

FOR CHEMICAL COMPOUNDS, COMPOSITIONS AND PREPARATIONS FOR USE IN FOUNDRY AND CASTING WORK, INCLUDING SO-CALLED DEGASSERS, OXIDIZERS, PURIFIERS, CLEANSERS, COVERS, FLUXES, PROTECTORS AND GAS-ABSORPTION PREVENTERS APPLIED TO THE "MELT" OF METAL OR ALLOYS OR APPLIED TO DIES, MOLDS, CORES, CRUCIBLES, LADLES, OR FURNACE WALLS.
Claims use since May 1, 1934.

Ser. No. 452,113. ULTRA-LIFE LABORATORIES, INC., East Saint Louis, Ill. Filed Apr. 2, 1942.

Ezee "D"

The designation "D" is disclaimed apart from the mark.
FOR ANIMAL STEROL IN EDIBLE POWDERED FORM FOR USE IN POULTRY AND ANIMAL FEEDS.
Claims use since Feb. 5, 1942.

Ser. No. 452,726. HOUSE OF TRE-JUR, INC., New York, N. Y. Filed May 1, 1942.

Follow Me
SUIVEZ MOI
VARVA

FOR TOILET WATER, PERFUME, TALCUM POWDER, FACE POWDER, BATH POWDER AND BUBBLE FOAM POWDER.
Claims use since Feb. 27, 1942.

Ser. No. 452,757. WALLACE & TIERNAN PRODCUTS INCORPORATED, Belleville, N. J. Filed May 2, 1942.

MONOMESTROL

FOR HORMONE COMPOSITIONS.
Claims use since Apr. 17, 1942.

CLASS 7

CORDAGE

Ser. No. 442,208. PIEDMONT COTTON MILLS, Egan, Ga. Filed Apr. 2, 1941.

TRICO

FOR COTTON TWINE.
Claims use since Jan. 1, 1928.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 451,044. THE BORDEN COMPANY, New York, N. Y. Filed Feb. 18, 1942.

CASCOLAC

FOR AQUEOUS SOLUTIONS OF CASEIN WITH ADDED CHEMICAL INGREDIENTS TO WHICH PIGMENTS ARE ADDED TO FORM WATER INKS OF DESIRED COLORS.
Claims use since May 14, 1937.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 451,252. X-PANDO CORPORATION, Long Island City, N. Y. Filed Feb. 26, 1942.

X-PANDOSEAL

FOR TRANSPARENT LIQUID COATING MATERIALS FOR WATER PROOFING AND DAMP-PROOFING PLASTER, MASONRY, TILE AND THE LIKE, WOOD, LINOLEUM, LEATHER, PAPER, FABRIC AND THE LIKE; AND FOR COATING MATERIALS PREVENTING THE DUSTING OF CONCRETE FLOORS.
Claims use since August, 1933.

Ser. No. 451,985. NATIONAL GYPSUM COMPANY, Buffalo, N. Y. Filed Mar. 28, 1942.

Gold Bond

FOR BUILDING CONSTRUCTION MATERIALS COMPRISING ROCK WOOL.
Claims use since July 1, 1936.

Ser. No. 451,986. NATIONAL GYPSUM COMPANY, Buffalo, N. Y. Filed Mar. 28, 1942.

Gold Bond

FOR ACOUSTICAL CONSTRUCTION MATERIAL.
Claims use since July 1, 1936.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 442,602. RELIANCE DEVICES COMPANY, INC., New York, N. Y. Filed Apr. 15, 1941.

"SWIVELIER"

FOR SWIVEL ATTACHMENT FOR ADJUSTABLE ADVERTISING DISPLAY, SWIVEL ATTACHMENTS FOR TRIPODS, SWIVEL ATTACHMENTS FOR BOOK SUPPORTS, AND SWIVEL ATTACHMENT FOR MIRRORS.
Claims use since Sept. 15, 1940.

Ser. No. 452,838. W. A. RUSSELL & Co., Bridgeport, Conn. Filed May 6, 1942.

DIALON

FOR RADIATOR AIR VALVES.
Claims use since Sept. 1, 1941.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 452,332. HORACE T. POTTS CO., Philadelphia, Pa. Filed Apr. 14, 1942.

ELASTUF MEDIA

FOR BAR STEEL.
Claims use since 1925.

CLASS 15

OILS AND GREASES

Ser. No. 450,946. THE CHAS. A. STRELINGER CO., Detroit, Mich. Filed Feb. 13, 1942.

STRELUBE
OIL PRODUCTS

The words "Oil Products" are disclaimed apart from the mark.
FOR LUBRICATING OILS AND GREASES.
Claims use since Jan. 21, 1942.

Ser. No. 451,050. EVANGELINE REFINING COMPANY, Jennings, La. Filed Feb. 18, 1942.

EVANGELINE

FOR MOTOR FUEL OILS.
Claims use since Dec. 1, 1941.

Ser. No. 451,814. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed Mar. 21, 1942.

Kodak

FOR LUBRICATING OIL.
Claims use since Apr. 7, 1933.

Ser. No. 451,936. MERCO NORDSTROM VALVE COMPANY, Pittsburgh, and Homewood, Pittsburgh, Pa. Filed Mar. 27, 1942.

NORDCO

FOR LUBRICATING GREASES.
Claims use since Apr. 7, 1937.

Ser. No. 451,958. W. H. BARBER COMPANY, Minneapolis, Minn. Filed Mar. 28, 1942.

NUTROL

FOR PETROLEUM PRODUCTS—NAMELY, LUBRICATING OILS AND GREASES.
Claims use since Sept. 5, 1941.

Ser. No. 452,169. GEORGE C. KRATT, JR., Nisswa, Minn. Filed Apr. 6, 1942.

ZIPPERLUBE

FOR LUBRICANT.
Claims use since Mar. 21, 1942.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 452,802. FOLDING CYCLES INC., New York, N. Y. Filed May 5, 1942.

COMPAX

FOR BICYCLES.
Claims use since Oct. 27, 1937.

CLASS 20

LINOLEUM AND OILED CLOTH

Ser. No. 452,738. BIRD & SON, INC., East Walpole, Mass. Filed May 2, 1942.

RUBBERLITE

FOR FLOOR COVERING OF THE HARD-SURFACED FLEXIBLE TYPE HAVING A WEARING LAYER OF ASPHALTIC COMPOSITION.
Claims use since Apr. 17, 1942.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 452,129. MAX S. KARP, Los Angeles, Calif. Filed Apr. 3, 1942.

KARP'S KAR KOP

No claim is made to the word "Karp's" apart from the mark.
FOR ELECTRICALLY OPERATED AUTOMOBILE BURGLAR ALARMS.
Claims use since Sept. 1, 1941.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 452,939. ADOLPH SCHWARTZ, New York, N. Y. Filed May 11, 1942.

FAR-WEST RANGER

FOR TOY PISTOL HOLSTERS.
Claims use since May 1, 1942.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 434,721. THE IRWIN AUGER BIT COMPANY, Wilmington, Ohio. Filed Aug. 6, 1940.

IRWIN PATTERN

Applicant is owner of trade-mark registration No. #65,244 effected and renewed under the 10-year proviso of the act of Feb. 20, 1905. No claim is made to the word "Pattern" apart from the mark as a whole.
FOR AUGER BITS FOR CABINET WORK.
Claims use since June 29, 1940.

Ser. No. 443,796. THE ACROTORQUE COMPANY, Cleveland, Ohio. Filed May 22, 1941.

ACROTORQUE

FOR HYDRAULIC PUMPS AND MOTORS, INCLUDING MOTORS FOR WINDSHIELD WIPER MECHANISMS AND PARTS THEREOF, HYDRAULIC, HYDRO-MECHANICAL AND HYDRO-ELECTRIC TRANSMISSIONS, FLUID DISTRIBUTING MECHANISMS, MECHANICAL MACHINE VALVES FOR FLUID CONTROL, AND MACHINERY PARTS.
Claims use since June 8, 1938.

Ser. No. 443,797. THE ACROTORQUE COMPANY, Cleveland, Ohio. Filed May 22, 1941.

ACROTORQUE

FOR HYDRAULIC PUMPS AND MOTORS, INCLUDING MOTORS FOR WINDSHIELD WIPER MECHANISMS AND PARTS THEREOF, HYDRAULIC, HYDRO-MECHANICAL AND HYDRO-ELECTRIC TRANSMISSIONS, FLUID DISTRIBUTING MECHANISMS, MECHANICAL MACHINE VALVES FOR FLUID CONTROL, AND MACHINERY PARTS.
Claims use since June 8, 1938.

Ser. No. 447,742. LASSCO PRODUCTS, INC., Rochester, N. Y. Filed Oct. 13, 1941.

SPINNIT

FOR PAPER DRILL.
Claims use since Mar. 15, 1940.

Ser. No. 448,122. WHITING CORPORATION, Harvey, Ill. Filed Oct. 25, 1941. Under 10-year proviso.

WHITING

FOR TABLE STRUCTURES FOR USE WITH JACKS IN RAISING AND LOWERING VEHICLE WHEELS IN PITS, LOCOMOTIVE HOISTS, LOCOMOTIVE SPOTTERS, CAR HOISTS, CAR WASHERS, BUCKET TYPE CONVEYORS FOR TRANSFERRING OR CONVEYING CINDERS, TRACK EQUIPPED TABLE STRUCTURES FOR TRANSFERRING RAILWAY ROLLING STOCK BETWEEN TRACKS, BUS TURNTABLES, VERTICALLY MOVABLE BRIDGES FOR CROSSING OVER RAILROAD TRACKS, TRAVELING CRANES, HANDPOWER CRANES, JIB AND PILLAR CRANES, GANTRY CRANES, TUMBLERS FOR CLEANING CASTINGS, LADLES FOR MOLTEN METAL, PULVERIZERS FOR COAL AND OTHER MATERIAL, AND TABLE ROLLER MILLS.
Claims use since 1894.

Ser. No. 448,794. CHARLES F. JOHNSTON, Oakland, Calif. Filed Nov. 21, 1941.

CAMATIC

FOR PISTON EXPANDERS EMPLOYED TO CAM THE SKIRTS OF PISTONS.
Claims use since Sept. 7, 1939.

Ser. No. 450,410. LOUIS IRVING ALBERT, New York, N. Y. Filed Jan. 23, 1942.

SHORTY

FOR HAND SCREW-DRIVERS.
Claims use since Dec. 29, 1941.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 451,058. SCULLY SIGNAL COMPANY, Cambridge, Mass. Filed Feb. 18, 1942.

NOZALARM

FOR LIQUID LEVEL DETECTING ALARM ATTACHMENTS FOR LIQUID SUPPLY LINE NOZZLES TO WARN OPERATOR WHEN TANK IS FULL, SAID ATTACHMENTS BEING SOLD SEPARATELY OR COMPLETE WITH NOZZLES.
Claims use since Nov. 15, 1941.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 442,158. AXEL BROS. INC., New York, N. Y. Filed Apr. 1, 1941.



FOR FINGER RINGS, BRACELETS, WATCH BRACELETS AND ATTACHMENTS NOT INCLUDING WATCHES.
Claims use since Mar. 24, 1941.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 451,809. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed Mar. 21, 1942.

Kodak

FOR RUBBER SQUEEGEES.
Claims use since June 25, 1941.

Ser. No. 452,329. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa. Filed Apr. 14, 1942.



FOR BRUSHES—NAMELY, ARTISTS', BILL POSTERS' CALCIMINE, COUNTER-DUSTERS, ENAMEL, FITCH, FRESCO, FLOOR SWEEPING, FLOWING, FURNITURE, RUBBING, GLUE, LACQUER, PAINT, PASTE, PAINTER-DUSTERS, PAPER HANGERS', PLASTERERS', RADIATOR, ROOF, SASH, SHIP SEAMING, STAIN, STAIR-DUSTERS, STUCCO, STENCIL, STIPPLING, VARNISH, WHITEWASH AND WASHING.
Claims use since Mar. 6, 1942.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 451,874. NATIONAL SILVER COMPANY, New York, N. Y. Filed Mar. 24, 1942.



The words "Hollywood Craftsmen" are disclaimed apart from the mark.
FOR CERAMIC DINNERWARE, COOKING WARE, VASES, JARS, JUGS, JARDINIERES, CROCKS, AND FLOWER POTS.
Claims use since Sept. 1, 1941.

CLASS 33

GLASSWARE

Ser. No. 452,575. BROCKWAY GLASS COMPANY, INC., Brockway, Pa. Filed Apr. 25, 1942.

TUFFY

FOR GLASS BOTTLES.
Claims use since Apr. 6, 1942.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 451,920. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa. Filed Mar. 26, 1942.

EXOGAS

FOR ATMOSPHERE CORRECTING GAS CONVERTERS FOR HEAT TREATING FURNACES.
Claims use since Dec. 5, 1939.

CLASS 37

PAPER AND STATIONERY

Ser. No. 443,030. THE HARRY ALTER CO., doing business as Tele-Golf Fairways, Chicago, Ill. Filed Apr. 28, 1941.

TELE-GOLF

The word "Golf" is disclaimed apart from the mark.
FOR GOLF SCORE CARDS.
Claims use since Apr. 8, 1941.

Ser. No. 445,171. BUFFALO INDUSTRIAL BANK, Buffalo, N. Y. Filed July 8, 1941.

BANKWAY

FOR BLANK PRINTED FORMS AND ACCOUNT CARDS FOR USE IN A BANK SERVICE SYSTEM AND IN CONNECTION WITH TIME PAYMENT PAPER, SAID FORMS, CARDS AND PAPER COMPRISING CENTRAL FILE INDEX CARD, PAYMENT BOOKLET, PERSONAL LOAN COUNTER CHECK, RETURN APPLICATION ENVELOPE, INTERVIEW SLIP, COMAKER LOAN APPLICATION, SINGLE NAME LOAN APPLICATION, CUSTOMER LIABILITY CARD, COLLATERAL ENVELOPE, COMAKER NOTE, DELINQUENCY NOTICE ENVELOPE, COUPON BOOKLET COVER, PAYMENT COUPONS, COLLATERAL NOTE, THRIFT ACCOUNT ASSIGNMENT, APPLICATION FOR CERTIFICATE OF INSURANCE, PAYMENT CARD, CREDIT STATEMENT, AND CHATTEL MORTGAGE.
Claims use since July 27, 1939.

Ser. No. 446,945. INTERNATIONAL PAPER COMPANY, New York, N. Y. Filed Sept. 10, 1941.

BROTHERHOOD BOOK

The word "Book" is disclaimed apart from the mark.
FOR PRINTING PAPER.
Claims use since Apr. 25, 1939.

Ser. No. 446,946. INTERNATIONAL PAPER COMPANY, New York, N. Y. Filed Sept. 10, 1941.

BROTHERHOOD LEDGER

The word "Ledger" is disclaimed apart from the mark.
FOR WRITING AND TYPEWRITING PAPER.
Claims use since May 3, 1939.

Ser. No. 451,534. INTERNATIONAL PAPER COMPANY, New York, N. Y. Filed Mar. 10, 1942.

PEACH TREAT

FOR WRAPPING PAPER.
Claims use since March, 1938.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 429,659. CLINTON B. KNAPP, doing business as Flower of the Month Club Enterprises, Battle Creek, Mich. Filed Mar. 16, 1940.

Flower of the Month Club

The word "Flower" is disclaimed apart from the mark.
FOR COUPONS AND CERTIFICATES SOLD AS SUCH.
Claims use since Mar. 9, 1940.

Ser. No 446,852. ALLIED PRESS, Grand Rapids, Mich. Filed Sept. 8, 1941.

ALLIED PRESS

No claim is made to the word "Press" apart from the mark.
FOR PHOTOGRAPHS.
Claims use since Aug. 30, 1941.

Ser. No. 450,646. INDEPENDENT BLUE PRINT & SUPPLY COMPANY, also doing business as Independent Music Publishers, New York, N. Y. Filed Feb. 2, 1942.

"for service and dependability"
INDEPENDENT
BLUE PRINT AND SUPPLY COMPANY

No claim is made to the words "For Service and Dependability" and "Blue Print and Supply Company."
FOR BLUE PRINTS, PHOTO-STATS, PHOTOPRINTS AND PAMPHLETS, AND ADVERTISING MATTER, SOLD AS SUCH.
Claims use since Sept. 10, 1922.

Ser. No 450,647. INDEPENDENT MUSIC PUBLISHERS, also doing business as Independent Blue Print & Supply Company, New York, N. Y. Filed Feb. 2, 1942.

"for service and dependability"
INDEPENDENT
MUSIC PUBLISHERS

No claim is made to the words "For Service and Dependability" and "Music Publishers."
FOR BLUE PRINTS, PHOTO-STATS, PHOTOPRINTS AND PRINTED SHEET MUSIC, MUSIC PUBLICATIONS IN BOOK FORM.
Claims use since Nov. 29, 1939.

Ser. No. 451,758. YOUTH ASSOCIATES COMPANY, Minneapolis, Minn. Filed Mar. 19, 1942.

THE Catholic Miss OF AMERICA

The term "America" is disclaimed apart from the mark.
FOR PERIODICAL.
Claims use since Jan. 1, 1942.

Ser. No. 451,948. UNITED PRESS ASSOCIATIONS, New York, N. Y. Filed Mar. 27, 1942.

HIGHLIGHTS OF THE WEEK'S NEWS

No claim is made for the words "Week's News" apart from the mark.
FOR PRINTED PRESS RELEASE ISSUED FROM TIME TO TIME, CONTAINING NEWS AND NEWS FEATURES PREPARED FOR ORAL OR VISUAL PRESENTATION.
Claims use since Oct. 16, 1937.

Ser. No. 451,949. UNITED PRESS ASSOCIATIONS, New York, N. Y. Filed Mar. 27, 1942.

THE DAILY CHUCKLES

No claim is made for the word "Daily" apart from the mark.
FOR PRINTED PRESS RELEASES ISSUED FROM TIME TO TIME, CONTAINING NEWS AND NEWS FEATURES PREPARED FOR ORAL OR VISUAL PRESENTATION.
Claims use since Jan. 7, 1938.

Ser. No. 451,951. UNITED PRESS ASSOCIATIONS, New York, N. Y. Filed Mar. 27, 1942.

LOOKING OVER EUROPE

No claim is made for the word "Europe" apart from the mark.
FOR PRINTED PRESS RELEASES ISSUED FROM TIME TO TIME, CONTAINING NEWS AND NEWS FEATURES PREPARED FOR ORAL OR VISUAL PRESENTATION.
Claims use since Aug. 3, 1938.

Ser. No. 451,952. UNITED PRESS ASSOCIATIONS, New York, N. Y. Filed Mar. 27, 1942.

ON THE FARM FRONT

FOR PRINTED PRESS RELEASES ISSUED FROM TIME TO TIME, CONTAINING NEWS AND NEWS FEATURES PREPARED FOR ORAL OR VISUAL PRESENTATION.
Claims use since Nov. 14, 1939.

Ser. No. 451,995. AMERICAN PUBLIC POWER ASSOCIATION, Washington, D. C. Filed Mar. 30, 1942.

PUBLIC POWER

FOR PAMPHLETS, BOOKLETS, BULLETINS, AND SIMILAR PUBLICATIONS PUBLISHED FROM TIME TO TIME.
Claims use since Feb. 25, 1942.

Ser. No. 452,177. TRIBUNE COMPANY, Chicago, Ill. Filed Apr. 6, 1942.

Dear Diary

FOR SERIES OF CARTOONS.
Claims use since Mar. 21, 1942.

Ser. No. 452,498. FLEETWINGS, INCORPORATED, Bristol, Pa. Filed Apr. 22, 1942.

FLEETWINGS NEWS

The word "News" is disclaimed apart from the mark.
FOR PERIODICAL PUBLICATION.
Claims use since Apr. 3, 1942.

Ser. No. 452,953. BRESSLER EDITORIAL CARTOONS, INC., New York, N. Y. Filed May 12, 1942.

VICTORY-BUILDERS

FOR POSTERS COMPOSED OF DISTINCTIVE DRAWINGS OR CARTOONS IN COLOR.
Claims use since Apr. 4, 1942.

CLASS 39

CLOTHING

Ser. No. 428,801. JULIUS DRITTEL, INC., Elizabeth, N. J. Filed Feb. 23, 1940.

Jay dee

FOR WOMEN'S AND MISSES' NEGLIGEES, PLAY SUITS, BEACH SUITS, APRONS, HOOVERETTES, BATH ROBES, AND PAJAMAS.
Claims use since Oct. 27, 1939.

Ser. No. 442,413. EASTERN FOOTWEAR CORPORATION, Dolgeville, N. Y. Filed Apr. 9, 1941.

Americana

FOR SHOES MADE OF LEATHER, FABRIC, RUBBER, OR COMBINATIONS OF SAID MATERIALS.
Claims use since March, 1941.

Ser. No. 446,466. LEOPOLD B. SCHWAB, New York, N. Y. Filed Aug. 22, 1941.



No claim is made to the words "Sox" and "As durable as the name implies" apart from the mark. The illustration of the man is fanciful.
FOR MEN'S HOSIERY.
Claims use since December, 1920.

Ser. No. 448,180. THE ALDEN MILLS, New Orleans, La. Filed Oct. 28, 1941.

Styline

FOR LADIES' HOSIERY.
Claims use since Aug. 1, 1941.

Ser. No. 450,677. GALE SHOE MFG. CO., Boston, Mass. Filed Feb. 3, 1942.



All Out

WOMEN'S DEFENSE SHOE

The picture is fanciful. The expression "Women's Defense Shoe" is disclaimed apart from the mark.
FOR SHOES OF LEATHER, FABRIC, RUBBER, OR COMBINATIONS THEREOF.
Claims use since Jan. 23, 1942.

Ser. No. 452,226. MAX ROSENFELD, Brooklyn, N. Y. Filed Apr. 8, 1942.

ILLUSTRIOUS

MAXIS

FOR MEN'S SUITS AND OVERCOATS.
Claims use since Mar. 6, 1942.

Ser. No. 452,360. MELODEE-LANE LINGERIE, INC., New York, N. Y. Filed Apr. 15, 1942.

MELOLANE

FOR LADIES' AND MISSES' SLIPS, BRASSIÈRES, PANTIES, BLOOMERS, NIGHTGOWNS, AND SLEEPING PAJAMAS.
Claims use since Mar. 27, 1941.

Ser. No. 452,434. ROSENTHAL & DOUCETTE, INC., Beverly, Mass., and New York, N. Y. Filed Apr. 18, 1942.

Flirtation Walkers

FOR WOMEN'S, LADIES', AND MISSES' SHOES OF LEATHER, FABRIC, AND COMBINATIONS THEREOF.
Claims use since Jan. 2, 1941.

Ser. No. 452,487. TOBY, New York, N. Y. Filed Apr. 21, 1942.

Transforma

FOR SCARFS FOR MEN AND LADIES, COLLARS FOR LADIES' DRESSES, JERKINS, AND DICKEYS.
Claims use since Feb. 27, 1941.

Ser. No. 452,565. PENNSHIRE SHIRT COMPANY, New York, N. Y. Filed Apr. 24, 1942.

PENNSHIRE

FOR MEN'S DRESS AND SPORT SHIRTS.
Claims use since Jan. 1, 1940.

Ser. No. 452,677. NARJOS, INC., Boston, Mass. Filed Apr. 29, 1942.



No claim is made to the word "California" apart from the mark.
FOR LADIES' SHOES OF LEATHER AND FABRIC AND/OR COMBINATIONS OF SAME.
Claims use since Apr. 15, 1942.

Ser. No. 452,684. HERMAN BARZ, New York, N. Y. Filed Apr. 30, 1942.



The word "Leather" is disclaimed apart from the mark "Sterilated."
FOR LEATHER SWEATBANDS FOR HATS AND CAPS.
Claims use since July 11, 1941.

Ser. No. 452,724. HOLLYWOOD ROGUE SPORTSWEAR, INC., Los Angeles, Calif. Filed May 1, 1942.

West-Coaster

FOR SHIRTS FOR MEN AND WOMEN, SLACK SUITS, PAJAMAS, AND SLEEP COATS.
Claims use since Feb. 7, 1942.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 426,568. I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed Dec. 14, 1939.

Kleinert's

LAUNDERWELL

Applicant is owner of T. M. Reg. No. 48,993 (renewed), effected under the 10-year proviso for the word "Kleinert's." The word "Launderwell" except as shown is disclaimed.
FOR DRESS SHIELDS.
Claims use since Nov. 28, 1939.

Ser. No. 452,539. PRO-PHY-LAC-TIC BRUSH COMPANY, Northampton, Mass. Filed Apr. 23, 1942. Under section 5b of the act of 1905 as amended in 1920.

Pro-phy-lac-tic

FOR COMBS.
Claims use since 1925.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 448,636. FOREMAN FABRICS CORP., New York, N. Y. Filed Nov. 14, 1941.



Applicant disclaims the words "The feel and seal of quality" apart from the mark.
FOR COTTON, RAYON, ACETATE, AND/OR SILK PIECE GOODS.
Claims use since May 1, 1941.

Ser. No. 450,164. THE LINEN THREAD CO., INC., New York, N. Y. Filed Jan. 12, 1942.

GOLD MEDAL

FOR NETS AND NETTING USED IN FISHING (BEING UNFINISHED GOODS.)
Claims use since Sept. 30, 1933.

Ser. No. 450,271. BOTANY WORSTED MILLS, Passaic, N. J. Filed Jan. 17, 1942.



Applicant disclaims exclusive use of the word "Annuals."
FOR WOOLEN AND WORSTED PIECE GOODS.
Claims use since Aug. 29, 1941.

Ser. No. 450,740. NATIONAL FABRICS CORPORATION, New York, N. Y. Filed Feb. 4, 1942.

GLEN RIO

FOR TEXTILE FABRICS IN THE PIECE—NAMELY, SILK FABRICS, RAYON FABRICS, FABRICS CONSISTING OF A MIXTURE OF RAYON AND SILK, AND COTTON, WOOLEN, OR LINEN FABRICS.
Claims use since Nov. 15, 1940.

Ser. No. 450,751. FELIX TAUSEND & SONS, New York, N. Y. Filed Feb. 4, 1942.

MOUNTAIN SPUN

The word "Spun" is disclaimed apart from the mark.
FOR TABLE CLOTHS, NAPKINS, SCARFS, AND DOILIES.
Claims use since Jan. 3, 1941.

Ser. No. 451,880. TABIN-PICKER & COMPANY, Chicago, Ill. Filed Mar. 24, 1942.

Milk Maid

FOR COTTON AND RAYON AND COTTON AND RAYON MIXED GOODS IN THE PIECE.
Claims use since Jan. 1, 1942.

Ser. No. 451,891. DEERING MILLIKEN & CO. INC., New York, N. Y. Filed Mar. 25, 1942.

DOMAIN

FOR SHEETS AND PILLOW CASES.
Claims use since Feb. 2, 1934.

Ser. No. 452,008. DAVID CRYSTAL INC., New York, N. Y. Filed May 30, 1942.

BANDERILLIO

FOR TEXTILE FABRICS IN THE PIECE OF SILK, RAYON, COTTON, AND LINEN AND COMBINATIONS THEREOF.
Claims use since January, 1942.

Ser. No. 452,010. DAVID CRYSTAL INC., New York, N. Y. Filed Mar. 30, 1942.

BOCA CHICA

FOR TEXTILE FABRICS IN THE PIECE OF SILK, RAYON, COTTON, AND LINEN AND COMBINATIONS THEREOF.
Claims use since January, 1942.

Ser. No. 452,132. PHILTEX FABRICS, INC., New York, N. Y. Filed Apr. 3, 1942.

Sportana BY PHILTEX

FOR TEXTILE FABRICS IN THE PIECE, OF COTTON, RAYON, AND COMBINATIONS THEREOF.
Claims use since Aug. 15, 1941.

Ser. No. 452,162. DAVID CRYSTAL INC., New York, N. Y. Filed Apr. 6, 1942.

CARUAR

FOR TEXTILE FABRICS IN THE PIECE OF SILK, RAYON, COTTON, AND LINEN AND COMBINATIONS THEREOF.
Claims use since January, 1942.

Ser. No. 452,173. RICE-STIX DRY GOODS COMPANY, St. Louis, Mo. Filed Apr. 6, 1942.

STARDOM

FOR COTTON PIECE GOODS.
Claims use since Mar. 30, 1942.

Ser. No. 452,203. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed Apr. 7, 1942.

Pennicraft

FOR TABLE CLOTHS, CARD TABLE COVERS, SCARFS, DOILIES, TOWELS AND TOWELING, SHEETS, AND PILLOW CASES.
Claims use since Sept. 6, 1940.

Ser. No. 452,286. LACE NET IMPORTING CO., INC., New York, N. Y. Filed Apr. 11, 1942.

ILLUSION

FOR NET FABRICS IN THE PIECE MADE OF SILK, WOOL, COTTON, RAYON, NYLON, AND MIXTURES THEREOF.
Claims use since 1910.

CLASS 43

THREAD AND YARN

Ser. No. 452,660. BERNHARD ULMANN CO. INC., New York, N. Y. Filed Apr. 28, 1942.

CROCHELLE

FOR ART NEEDLEWORK YARNS.
Claims use since Apr. 23, 1942.

Ser. No. 452,661. BERNHARD ULMANN CO. INC., New York, N. Y. Filed Apr. 28, 1942.

PEARLETTE

FOR ART NEEDLEWORK YARNS.
Claims use since Apr. 23, 1942.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 411,781. VERNON ISBELL, Fort Worth, Tex. Filed Oct. 19, 1938.

NEEDLE WAVE

The word "Wave" is disclaimed apart from the mark.
FOR PERMANENT WAVE MACHINES.
Claims use since June 1, 1938.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 445,117. COMPANHIA ANTARCTICA PAULISTA, Sao Paulo, Brazil. Filed July 7, 1941.

BRASILBAR

FOR NATURAL MINERAL WATERS, NON-ALCOHOLIC MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND SYRUPS AND EXTRACTS FOR MAKING SOFT DRINKS.
Claims use since Sept. 16, 1940.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 430,410. JOE LOWE CORPORATION, New York, N. Y. Filed Apr. 5, 1940.

Fruitti - Ess

Applicant disclaims the word "Fruitti" apart from the mark.
FOR FRUIT FLAVORING CONCENTRATE FOR MAKING ICINGS, FILLINGS, AND JELLIES, IN ALL TYPES OF CAKES, COOKIES, FRUIT BARS, BUNS, BISCUITS, AND CREAM PIES.
Claims use since Dec. 1, 1937.

Ser. No. 446,076. H. EARL DELAPP, doing business as Delapp and Company, Waseca, Minn. Filed Aug. 8, 1941.

THE FARMADE WAY

No claim is made to the word "Farmade" as a phonetic misspelling of "Farm Made" apart from the mark as shown.
FOR CATTLE FEED AND POULTRY FEED.
Claims use since Sept. 15, 1940.

Ser. No. 450,844. BEACON IMPORTING COMPANY, Boston, Mass. Filed Feb. 9, 1942.

BIC

FOR CANNED SALMON.
Claims use since Jan. 22, 1942.

Ser. No. 451,626. KINGAN & CO. INCORPORATED, Indianapolis, Ind. Filed Mar. 14, 1942.

FLAVOR CRAFT

Applicant disclaims the word "Flavor" apart from the mark.
FOR COOKED HAMS IN TINS AND WIENERS.
Claims use since Mar. 1, 1941, on said hams; and since Dec. 11, 1941, on said wieners.

Ser. No. 452,179. WILLIAMSON CANDY COMPANY, Chicago, Ill. Filed Apr. 6, 1942.

Pocket Piece

FOR CANDY.
Claims use since Jan. 10, 1942.

Ser. No. 452,323. HUNT BROTHERS PACKING COMPANY, San Francisco, Calif. Filed Apr. 14, 1942.

J. H. Hunt

The signature is that of J. H. Hunt former president of applicant corporation.
FOR CANNED FRUITS, CANNED VEGETABLES AND CANNED FISH.
Claims use since 1909.

Ser. No. 452,461. SCHUCKL & CO., INC., also doing business as Sunnyvale Packing Company, San Francisco Calif. Filed Apr. 20, 1942.

Aunt Penny's

FOR FRUITS IN GLASS AND CANNED VEGETABLES.
Claims use since Mar. 23, 1942.

Ser. No. 452,585. RIVIERA PACKING CORPORATION, New York, N. Y. Filed Apr. 25, 1942.

King Sigurd

FOR CANNED FISH.
Claims use since June 26, 1941.

Ser. No. 452,612. HILLSBOROUGH PACKING COMPANY, INC., Tampa, Fla. Filed Apr. 27, 1942.

VALIANT

FOR FRESH CITRUS FRUITS.
Claims use since 1933.

CLASS 47

WINES

Ser. No. 447,455. COMPANHIA ANTARCTICA PAULISTA, Sao Paulo, Brazil. Filed Oct. 1, 1941.

BRASILBAR

FOR WINES AND APERITIVE WINES.
Claims use since Sept. 16, 1940.

Ser. No. 450,755. URBANA WINE COMPANY, INC., Urbana, N. Y. Filed Feb. 4, 1942.

GOLD SEAL

FOR VERMOUTHS.
Claims use since Mar. 7, 1941.

Ser. No. 451,318. PIRRONE WINERIES, INC., Garfield, N. J. Filed Feb. 28, 1942.

Invitation

FOR WINES.
Claims use since January, 1940.

Ser. No. 452,204. HIPOLITO SANCHEZ, doing business as Sanchez Winery, Cucamonga, Calif. Filed Apr. 7, 1942.

CUCAMONGA BEAUTY

No claim is made to the name "Cucamonga" apart from the mark.
FOR WINES.
Claims use since Mar. 1, 1942.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 447,456. COMPANHIA ANTARCTICA PAULISTA, Sao Paulo, Brazil. Filed Oct. 1, 1941.

BRASILBAR

FOR BEERS, PORTERS, AND ALES.
Claims use since Sept. 16, 1940.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 445,118. COMPANHIA ANTARCTICA PAULISTA, Sao Paulo, Brazil. Filed July 7, 1941.

BRASILBAR

FOR WHISKIES, BRANDIES, GINS, RUMS, ALCOHOLIC PUNCHES, CORDIALS, LIQUEURS, AND ALCOHOLIC BITTERS.
Claims use since Sept. 16, 1940.

Ser. No. 452,910. MANY, BLANC & CO., INC., Chicago, Ill. Filed May 9, 1942.

BELLE *of* AMAIA

FOR RUMS.
Claims use since Mar. 1, 1942.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 448,446. CONSOLIDATED OUTDOOR DISPLAY COMPANY, Fremont, Ohio. Filed Nov. 7, 1941.

CONS-O-LITE Day-lite

FOR REFLECTING LETTERS FOR USE IN MAKING HIGHWAY ADVERTISING SIGNS.
Claims use since Apr. 1, 1938.

Ser. No. 451,431. ELECTROGRAPHIC CORPORATION, New York, N. Y. Filed Mar. 4, 1942.

ORIGITONE

FOR THIN METALLIC PRINTING PLATES SECURED TO CURVED RIGID BASES.
Claims use since Nov. 19, 1941.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JUNE 23, 1942

395,973. PERIODICAL. FARRELL PUBLISHING CORPORATION, New York, N. Y.
Filed September 12, 1939. Serial No. 423,527. PUBLISHED NOVEMBER 7, 1939. Class 38.

395,974. REGISTERING OR COUNTING MECHANISMS—NAMELY, COUNTERS FOR MEASURING YARDAGE OF CLOTH PRODUCED ON A LOOM AND AUTOMATICALLY STOPPING THE LOOM WHEN A PREDETERMINED LENGTH OF CLOTH HAS BEEN WOVEN. VEEDER-ROOT INCORPORATED, Hartford, Conn.
Filed January 6, 1940. Serial No. 427,217. PUBLISHED APRIL 14, 1942. Class 26.

395,975. LIQUID CLEANER AND SPOT REMOVER FOR FABRICS AND GABARDINE CLEANER. OSMIC CHEMICAL COMPANY, Brockton, Mass.
Filed May 9, 1940. Serial No. 431,739. PUBLISHED APRIL 14, 1942. Class 4.

395,976. BOOKS. ADDISON LEWIS, doing business as Photonovel Products, Ltd., Minneapolis, Minn.
Filed January 9, 1941. Serial No. 439,517. PUBLISHED APRIL 14, 1942. Class 38.

395,977. BLACK CARBON PIGMENT USED IN THE PRINTING INK, CARBON PAPER, AND TYPEWRITER RIBBON INDUSTRIES. THE PEERLESS CARBON BLACK COMPANY, Pittsburgh, Pa.
Filed March 12, 1941. Serial No. 441,485. PUBLISHED APRIL 29, 1941. Class 11.

395,978. TOILET COSMETIC USED AS A PREPARATION FOR THE SKIN. STUDART & CIA., Rio de Janeiro, Brazil.
Filed April 21, 1941. Serial No. 442,807. PUBLISHED MARCH 31, 1942. Class 6.

395,979. LUBRICATING OILS AND GREASES. STANDARD OIL COMPANY OF CALIFORNIA, Wilmington, Del., and San Francisco, Calif.
Filed April 23, 1941. Serial No. 442,880. PUBLISHED MARCH 31, 1942. Class 15.

395,980. WINES. A. FLORIO & COMPAÑIA, Buenos Aires, Argentina.
Filed April 30, 1941. Serial No. 443,122. PUBLISHED MARCH 31, 1942. Class 47.

395,981. YEAST CULTURE IN THE NATURE OF A DIGESTIVE ENZYME AND VITAMIN CARRIER THAT IS MIXED WITH LIVE STOCK AND POULTRY FEEDS BEFORE USE. MID-CONTINENTAL LABORATORIES, Kansas City, Mo.
Filed May 17, 1941. Serial No. 443,664. PUBLISHED APRIL 14, 1942. Class 46.

395,982. HARDENED PLASTIC MATERIAL IN THE FORM OF SHEETS, RODS, AND BLOCKS. CATALIN CORPORATION, New York, N. Y.
Filed June 9, 1941. Serial No. 444,325. PUBLISHED APRIL 14, 1942. Class 50.

395,983. CHEMICALS AND PREPARATIONS AND COMPOUNDS THEREOF USED IN PHOTOGRAPHIC PROCESSES, PARTICULARLY PHOTOGRAPHIC DEVELOPERS. GENERAL ANILINE & FILM CORPORATION, New York, N. Y.
Filed June 20, 1941. Serial No. 444,699. PUBLISHED AUGUST 26, 1941. Class 6.

395,984. EYE PROTECTION LENSES AND BLANKS FOR MAKING THE SAME. AMERICAN OPTICAL COMPANY, Southbridge, Mass.
Filed June 30, 1941. Serial No. 444,959. PUBLISHED APRIL 14, 1942. Class 26.

395,985. OTOSCOPES. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y.
Filed July 3, 1941. Serial No. 445,035. PUBLISHED APRIL 14, 1942. Class 44.

395,986. CANNED FRUITS, DRIED PRUNES, SLICED PINEAPPLE AND CANNED VEGETABLES. BENNETT RUSSELL, Yakima, Wash.
Filed July 21, 1941. Serial No. 445,531. PUBLISHED APRIL 14, 1942. Class 46.

395,987. SHAVING BRUSHES. AMERICAN SAFETY RAZOR CORPORATION, Brooklyn, N. Y.
Filed July 28, 1941. Serial No. 445,678. PUBLISHED MARCH 31, 1942. Class 29.

395,988. FRESH CITRUS FRUITS. THE YORBA LINDA CITRUS ASSOCIATION, Yorba Linda, Calif.
Filed August 18, 1941. Serial No. 446,344. PUBLISHED APRIL 14, 1942. Class 46.

395,989. FRESH CITRUS FRUITS. THE YORBA LINDA CITRUS ASSOCIATION, Yorba Linda, Calif.
Filed August 18, 1941. Serial No. 446,345. PUBLISHED APRIL 14, 1942. Class 46.

395,990. MILL WORK AND ALLIED PRODUCTS—NAMELY, SASH, WINDOWS, TRANSOMS, WINDOW UNITS, ETC. HOUSTON SASH & DOOR COMPANY, Houston, Tex.
Filed August 22, 1941. Serial No. 446,457. PUBLISHED MARCH 31, 1942. Class 12.

395,991. GASOLINE, FURNACE OILS AND FUEL OILS. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa.
Filed August 29, 1941. Serial No. 446,646. PUBLISHED MARCH 31, 1942. Class 15.

395,992. FEEDS FOR POULTRY, DAIRY, HOGS, STEERS, AND HORSES. CENTRAL CHEMICAL CORPORATION OF MARYLAND, Hagerstown, Md.
Filed September 8, 1941. Serial No. 446,862. PUBLISHED APRIL 14, 1942. Class 46.

395,993. FUR RESULTING FROM THE CHEMICAL TREATMENT OF FUR SKINS AND THEREAFTER CUT FROM THE SKIN, GENERALLY KNOWN AS "CARROTED" FUR. THE NON-MERCURIC CARROT COMPANY, Danbury, Conn.
Filed September 25, 1941. Serial No. 447,312. PUBLISHED APRIL 14, 1942. Class 1.

395,994. STAPLES. METAL SPECIALTIES MANUFACTURING CO., Chicago, Ill.
Filed October 13, 1941. Serial No. 447,751. PUBLISHED APRIL 14, 1942. Class 37.

395,995. MATERIAL (IN LIQUID, PASTE, AND POWDER FORM) TO BE ADDED TO A CONCRETE MIX TO RENDER THE CONCRETE SURFACE WHEN HARDENED, WEAR-RESISTING, NON-DUSTING, AND WATER-PROOF. A. F. VAN WOLF, doing business as Kedmont Manufacturing & Waterproofing Co., Chicago, Ill.
Filed October 22, 1941. Serial No. 448,020. PUBLISHED MARCH 31, 1942. Class 12.

395,996. MANICURE KITS. HAMILTON C. BATES, doing business as C. J. Bates & Son, Chester, Conn., assignor to C. J. Bates & Son, Chester, Conn., a firm composed of Hamilton C. Bates, Wells C. Bates, and Hamilton C. Bates, Jr.
Filed November 10, 1941. Serial No. 448,490. PUBLISHED APRIL 14, 1942. Class 44.

395,997. LOAD DISTRIBUTING METAL CONNECTORS FOR USE IN JOINING TIMBER MEMBERS IN ALL TYPES OF LIGHT AND HEAVY FRAME TIMBER STRUCTURES. TIMBER ENGINEERING COMPANY, Washington, D. C.
Filed November 12, 1941. Serial No. 448,591. PUBLISHED APRIL 14, 1942. Class 13.

395,998. DOLLS. VIRGINIA WOODIN, Arlington, Va.
Filed November 12, 1941. Serial No. 448,595. PUBLISHED APRIL 14, 1942. Class 22.

395,999. CERAMIC TABLE AND COOKING WARE, VASES, JARS, JUGS, JARDINIERES, CROCKS, CUSPIDORS, AND FLOWERPOTS. MABEL CUMNOW RUSKIN, Abingdon, Va.
Filed November 14, 1941. Serial No. 448,653. PUBLISHED APRIL 14, 1942. Class 30.

396,000. MAGAZINE. STAG PUBLISHING CORPORATION, New York, N. Y.
Filed November 21, 1941. Serial No. 448,806. PUBLISHED JANUARY 20, 1942. Class 38.

396,001. GASOLINE. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa.
Filed November 25, 1941. Serial No. 448,886. PUBLISHED MARCH 31, 1942. Class 15.

396,002. MAGAZINE PUBLICATION. VOLITANT PUBLISHING CORPORATION, New York, N. Y., assignor to Stag Publishing Corporation, New York, N. Y., a corporation of New York.
Filed December 4, 1941. Serial No. 449,196. PUBLISHED JANUARY 20, 1942. Class 38.

396,003. WOOLEN PIECE GOODS. NEPONSET WOOLEN MILLS, INCORPORATED, New York, N. Y., and Canton, Mass.
Filed December 6, 1941. Serial No. 449,239. PUBLISHED MARCH 31, 1942. Class 42.

396,004. COMIC STRIP. THE BAERS, Chicago, Ill.
Filed December 8, 1941. Serial No. 449,248. PUBLISHED APRIL 7, 1942. Class 38.

396,005. FRESH CITRUS FRUIT. VENTURA PACIFIC CO., Montalvo, Calif.
Filed December 8, 1941. Serial No. 449,307. PUBLISHED APRIL 14, 1942. Class 46.

396,006. REAL LEATHER, LEATHER SUEDE, AND RUBBER SHEET MATERIAL. THE TEXTOLITE CORPORATION, Newark, N. J.
Filed December 9, 1941. Serial No. 449,331. PUBLISHED APRIL 14, 1942. Class 1.

396,007. POULTRY EQUIPMENT—NAMELY, BATTERY BROODERS, LAYING CAGES, LAYING NESTS, AND WATERERS. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis.
Filed December 10, 1941. Serial No. 449,345. PUBLISHED APRIL 14, 1942. Class 50.

396,008. PERIODICAL. SCHOLASTIC CORPORATION, New York, N. Y., Dayton, Ohio, and Pittsburgh, Pa.
Filed December 10, 1941. Serial No. 449,357. PUBLISHED APRIL 14, 1942. Class 38.

396,009. GREASE TRAPS, CESSPOOLS, BASIN TRAPS, AND FLOOR DRAINS. D. J. MURRAY MANUFACTURING CO., Wausau, Wis.
Filed December 11, 1941. Serial No. 449,381. PUBLISHED APRIL 14, 1942. Class 13.

396,010. UNIT HEATERS, BLAST COILS, HUMIDIFIERS, CONDENSERS, RADIATOR FIN SECTIONS, GRATES, AND FURNACE FITTINGS. D. J. MURRAY MANUFACTURING CO., Wausau, Wis.
Filed December 11, 1941. Serial No. 449,383. PUBLISHED APRIL 14, 1942. Class 34.

396,011. PREPARED FOOD PRODUCTS—NAMELY, OLIVE OIL, CANNED RIPE OLIVES, AND GREEN OLIVES IN BARRELS AND IN GLASS JARS. PACIFIC OLIVE COMPANY, Visalia, Calif.
Filed December 12, 1941. Serial No. 449,431. PUBLISHED APRIL 14, 1942. Class 46.

396,012. COMIC STRIP. THE BAERS, Chicago, Ill.
Filed December 16, 1941. Serial No. 449,512. PUBLISHED APRIL 7, 1942. Class 38.

396,013. PIECE GOODS OF COTTON, WOOL, AND/OR COMBINATIONS OF THESE MATERIALS. DAY'S TAILOR-D CLOTHING, INC., Tacoma, Wash.
Filed December 17, 1941. Serial No. 449,545. PUBLISHED MARCH 31, 1942. Class 42.

396,014. DAIRY PRODUCTS—NAMELY, CHEESES, BUTTER, FRESH CREAM, RAW MILK, PASTEURIZED MILK, CONDENSED MILK, ETC. COOPERATIVA NACIONAL DE PRODUCTORES DE LECHE, Montevideo, Uruguay.
Filed December 20, 1941. Serial No. 449,640. PUBLISHED APRIL 7, 1942. Class 46.

396,015. DEPARTMENT OF A PERIODICAL. CLEONAE W. BROOKS, doing business as American Horseman, Lexington, Ky.
Filed December 23, 1941. Serial No. 449,720. PUBLISHED APRIL 14, 1942. Class 38.

396,016. CANNED FRUITS — NAMELY, CANNED PEACHES AND CANNED APRICOTS. MOR-PAK PRESERVING CORPORATION, San Francisco and Stockton, Calif.
Filed December 23, 1941. Serial No. 449,726. PUBLISHED APRIL 14, 1942. Class 46.

396,017. LINOLEUM BLOCKS ADAPTED FOR THE APPLICATION OF DESIGNS THERETO TO BE USED AS PRINTING PLATES. MILTON BRADLEY COMPANY, Springfield, Mass.
Filed December 31, 1941. Serial No. 449,888. PUBLISHED APRIL 14, 1942. Class 50.

396,018. CARBON BLACK FOR USE AS AN INK PIGMENT. COLUMBIAN CARBON COMPANY, New York, N. Y.
Filed December 31, 1941. Serial No. 449,893. PUBLISHED MARCH 10, 1942. Class 11.

396,019. GABARDINE PIECE GOODS. REEVES BROTHERS, INC., New York, N. Y.
Filed December 31, 1941. Serial No. 449,919. PUBLISHED MARCH 31, 1942. Class 42.

396,020. POPLIN CLOTH IN THE PIECE. REEVES BROTHERS, INC., New York, N. Y.
Filed December 31, 1941. Serial No. 449,920. PUBLISHED MARCH 31, 1942. Class 42.

396,021. PHONOGRAPHS, PHONOGRAPH RECORDS, PHONOGRAPH RECORD PLAYERS AND PHONOGRAPH NEEDLES. THE FRED GRETSCH MANUFACTURING CO., Brooklyn, N. Y.
Filed January 8, 1942. Serial No. 450,068. PUBLISHED APRIL 14, 1942. Class 36.

396,022. PLUG GAUGES AND PARTS THEREFOR. UNITED PRECISION PRODUCTS CO., Chicago, Ill.
Filed January 14, 1942. Serial No. 450,217. PUBLISHED APRIL 14, 1942. Class 26.

396,023. TOOTHBRUSHES. LEDOGAR, HUMPHREYS & COMPANY, New York, N. Y.
Filed January 17, 1942. Serial No. 450,281. PUBLISHED MARCH 31, 1942. Class 29.

396,024. GLASS RODS, GLASS TUBING, AND GLASS CONTAINERS—NAMELY, JARS, DISHES, AND BOTTLES, INCLUDING AMPOULES, AND OTHER VIALS, AND FLASKS. KIMBLE GLASS COMPANY, Vineland, N. J.
Filed January 21, 1942. Serial No. 450,361. PUBLISHED APRIL 14, 1942. Class 33.

396,025. MOTION PICTURE PROJECTION APPARATUS. MILLS NOVELTY COMPANY, Chicago, Ill.
Filed January 21, 1942. Serial No. 450,371. PUBLISHED APRIL 14, 1942. Class 26.

396,026. PUBLICATION DEVOTED TO NEWS EVENTS AND NEWS REPORTING APPEARING FROM TIME TO TIME. UNITED PRESS ASSOCIATIONS, New York, N. Y.
Filed January 21, 1942. Serial No. 450,383. PUBLISHED APRIL 14, 1942. Class 38.

396,027. WORSTED FABRICS OF A TWILL WEAVE FOR WOMEN'S AND MEN'S SUITINGS IN THE PIECE AND CUT LENGTHS. COLLINS & AIKMAN CORPORATION, Philadelphia, Pa., and New York, N. Y.
Filed January 24, 1942. Serial No. 450,446. PUBLISHED MARCH 31, 1942. Class 42.

396,028. CHILDREN'S HIGH CHAIRS. SHEBOYGAN CHAIR COMPANY, Sheboygan, Wis.
Filed January 30, 1942. Serial No. 450,605. PUBLISHED APRIL 14, 1942. Class 32.

396,029. DOLLS AND TOY ANIMALS. GEO. BORGFELDT CORPORATION, New York, N. Y.
Filed February 7, 1942. Serial No. 450,825. PUBLISHED APRIL 14, 1942. Class 22.

396,030. PERIODIC PUBLICATION. SUPERVISION PUBLISHING COMPANY, INC., New York, N. Y.
Filed February 7, 1942. Serial No. 450,841. PUBLISHED APRIL 14, 1942. Class 38.

396,031. PERIODICAL PUBLICATION. MECHANITE RESEARCH INSTITUTE OF AMERICA, INC., Pittsburgh, Pa.
Filed February 14, 1942. Serial No. 450,973. PUBLISHED APRIL 14, 1942. Class 38.

396,032. NEWSPAPER COLUMN. BUFORD ALEXANDER LYNCH, Washington, D. C.
Filed February 14, 1942. Serial No. 450,983. PUBLISHED APRIL 7, 1942. Class 38.

396,033. GREETING CARDS. NORCROSS, New York, N. Y.
Filed February 16, 1942. Serial No. 451,015. PUBLISHED APRIL 7, 1942. Class 38.

396,034. ICE CREAM AND FROZEN CONFECTIONS. HERSHEY CREAMERY COMPANY, Harrisburg, Pa.
Filed February 23, 1942. Serial No. 451,175. PUBLISHED APRIL 14, 1942. Class 46.

396,035. FRESH CITRUS FRUITS. SNIVELY GROVES, INC., Winter Haven, Fla.
Filed February 24, 1942. Serial No. 451,192. PUBLISHED APRIL 14, 1942. Class 46.

396,036. FUEL BURNING AIR CONDITIONING UNITS. YORK OIL BURNER CO., INC., York, Pa.
Filed February 27, 1942. Serial No. 451,278. PUBLISHED APRIL 14, 1942. Class 34.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

396,037. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) JOSEPH NEFSKY, doing business as Smart-Kurl Wave Company, Chicago, Ill., assignor to Halgar, Inc., Chicago, Ill., a corporation of Illinois. Filed Mar. 23, 1940. Serial No. 429,912.

Smart-Kurl

FOR PERMANENT WAVING PADS.
Claims use since Mar. 10, 1940.

396,038. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BARTMANN & BINER INC., New York, N. Y. Filed Apr. 15, 1940. Serial No. 430,772.

Ruffle-Framed

FOR WINDOW CURTAINS.
Claims use since Apr. 1, 1940.

396,039. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALTER E. BOTHE, Bloomington, Ill. Filed Apr. 24, 1940. Serial No. 431,142.

Helen Harrison

FOR SALAD DRESSING.
Claims use since August, 1939.

396,040. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) CLARENCE LEE WALTER, doing business as Press-Stencil Co., St. Louis, Mo. Filed Feb. 15, 1941. Serial No. 440,709.

Press-Stencil

FOR EQUIPMENT FOR MAKING STENCILS—NAMELY, MACHINES, SCREEN PLATES, FRAMES, AND BLOCKS.
Claims use since Apr. 8, 1939.

396,041. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER CORPORATION, Holyoke, Mass. Filed Mar. 12, 1941. Serial No. 441,461.

WESTOVER

FOR WRITING AND PRINTING PAPER.
Claims use since Jan. 25, 1941.

396,042. (CLASS 38. PRINTS AND PUBLICATIONS.) L. D. POST, INC., New York, N. Y. Filed Apr. 14, 1941. Serial No. 442,565.

PAPER MILL NEWS

FOR A MAGAZINE PUBLISHED WEEKLY.
Claims use since Mar. 8, 1941.

396,043. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. A. FERAUD, Camarillo, Calif. Filed Apr. 28, 1941. Serial No. 443,041.

CORN CHILI CONE

FOR CHILI IN A CORN CONE.
Claims use since Apr. 18, 1941.

396,044. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BENICIA FISHERIES, Benicia, Calif. Filed May 20, 1941. Serial No. 443,710.

Tall Pak

FOR CANNED FISH.
Claims use since May 1, 1941.

396,045. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) PROMOTIONS, INC., Youngstown, Ohio. Filed May 20, 1941. Serial No. 443,733.

GOOD HOUSEKEEPING

FOR CERAMIC DINNERWARE.
Claims use since May 12, 1941.

396,046. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MELVIN H. JACOBS, doing business as Eaton Laboratories, Chicago, Ill. Filed May 26, 1941. Serial No. 443,932.

Eaton's

FOR SAPONACEOUS MATERIAL FOR FORMING BUBBLES FOR USE IN THE BATH.
Claims use since Dec. 1, 1940.

396,047. (CLASS 37. PAPER AND STATIONERY.) UNITED ADVERTISING COMPANIES, INC., doing business as The Pen Man, Chicago, Ill. Filed May 31, 1941. Serial No. 444,107.

PEN MAN

FOR FOUNTAIN PENS.
Claims use since Dec. 15, 1940.

396,048. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) AVON TRADING CORPORATION, New York, N. Y. Filed July 25, 1941. Serial No. 445,623.

CERANOVA

FOR VEGETABLE WAX.
Claims use since Nov. 15, 1940.

396,049. (CLASS 32. FURNITURE AND UPHOLSTERY.) BURTON-DIXIE CORPORATION, Chicago, Ill. Filed Aug. 1, 1941. Serial No. 445,834.

KOT-N-TOP

FOR PILLOWS.
Claims use since Nov. 11, 1940.

396,050. (CLASS 38. PRINTS AND PUBLICATIONS.) TRUSCON LABORATORIES, INC., Detroit, Mich. Filed Aug. 21, 1941. Serial No. 446,443.

Building Maintenance

FOR A PERIODICAL PUBLICATION.
Claims use since Apr. 10, 1941.

396,051. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WELDON ROBERTS RUBBER CO., Newark, N. J. Filed Sept. 12, 1941. Serial No. 447,003.

The SOFT RUBBER binder
Cushions the abrasive
Weldon Roberts
Rubber Co.

FOR DISCS, WHEELS, TABLETS, AND STICKS MADE OF ABRASIVE IMPREGNATED RUBBER COMPOUND.
Claims use since September, 1934.

396,052. (CLASS 39. CLOTHING.) HYDE PARK CLOTHES, INC., Newport, Ky. Filed Sept. 22, 1941. Serial No. 447,240.

Lustre Weave
Tailored at Hyde Park

FOR MEN'S, BOYS', AND CHILDREN'S SUITS AND OVERCOATS.
Claims use since Jan. 1, 1936.

396,053. (CLASS 32. FURNITURE AND UPHOLSTERY.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Nov. 14, 1941. Serial No. 448,658.

CUSTOMATCHED

FOR KITCHEN CABINETS.
Claims use since May 28, 1940.

396,054. (CLASS 31. FILTERS AND REFRIGERATORS.) THE VILTER MANUFACTURING COMPANY, Milwaukee, Wis. Filed Dec. 1, 1941. Serial No. 449,086.

PAKICE

FOR REFRIGERATING MACHINES, ICE-MAKING AND ICE-BRIQUETTING MACHINES, ICE DISINTEGRATORS AND DISTRIBUTORS, SLUSH ICE DEWATERERS, AND SAND COOLERS.
Claims use since Oct. 15, 1931.

396,055. (CLASS 38. PRINTS AND PUBLICATIONS.) HAIRE PUBLISHING COMPANY, INC., New York, N. Y. Filed Jan. 31, 1942. Serial No. 450,629.

DRESS and STREET
GLOVE
SOURCES OF SUPPLY

FOR A DIRECTORY GIVING THE ADDRESSES OF MANUFACTURERS OF GLOVES, PUBLISHED ANNUALLY.
Claims use since 1933.

396,056. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIS G. MCCULLOUGH, doing business as Macholm Farm, Cummings Point, Stamford, Conn. Filed Mar. 17, 1942. Serial No. 451,685.

MACHOLM FARM

FOR CANNED CHICKEN SOUP.
Claims use since Apr. 1, 1940.

396,057. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OTIS T. HODGE, St. Louis, Mo. Filed Mar. 19, 1942. Serial No. 451,747.

HODGE'S

FOR CHILI CON CARNE AND TAMALES.
Claims use since 1906.

396,058. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LACE-NET IMPORTING CO. INC., New York, N. Y. Filed Mar. 19, 1942. Serial No. 451,749.

DOGNIN

FOR ELASTIC NET FABRICS IN THE PIECE AND LACE FABRICS IN THE PIECE MADE OF SILK, WOOL, NYLON, COTTON, RAYON, AND MIXTURES THEREOF.
Claims use since 1934.

396,059. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ANGLO FABRICS, INC., New York, N. Y. Filed Mar. 21, 1942. Serial No. 451,793.

Anglo Fabrics

FOR WOOL, RAYON, COTTON, AND SILK PIECE GOODS AS WELL AS COMBINATIONS THEREOF.
Claims use since May 1, 1940.

396,060. (CLASS 27. HOROLOGICAL INSTRUMENTS.) HARMAN WATCH CO. INC., New York, N. Y. Filed Apr 15, 1942. Serial No. 452,350.

ET ON

FOR WATCHES, CLOCKS, AND PARTS THEREOF.
Claims use since January, 1923.

TRADE-MARK REGISTRATIONS RENEWED

21,103. **REPRESENTATION OF AN ANCHOR, CROSS, AND RADIATING LINES.** A LINE OF PROPRIETARY MEDICINES. Registered May 10, 1892. KOENIG MEDICINE COMPANY, Chicago, Ill., a corporation of Illinois. Re-renewed May 10, 1942.

21,903. **KUTTYHUNK.** WASHING-BLUE. Registered November 1, 1892. PATRICK DIAMOND. Re-renewed November 1, 1942, to Diamond McDonnell & Co., Philadelphia, Pa., a firm, assignee.

21,940. **MINKOTA.** WHEAT-FLOUR. Registered November 8, 1892. MINKOTA MILLING COMPANY, Duluth, Minn. Re-renewed November 8, 1942, to Standard Milling Company, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

154,862. **PLI-O-TOP.** CORSETS AND BRASSIÈRES. Registered May 16, 1922. AMERICAN LADY CORSET COMPANY, Detroit, Mich., a corporation of Michigan. Renewed May 16, 1942.

155,191. **AMERICAN ALMANAC CALENDAR.** CALENDARS, AN ANNUAL PUBLICATION. Registered May 23, 1922. THE AMERICAN CALENDAR COMPANY. Renewed May 23, 1942, to American Calendar Company, Inc., Greenville, Tenn., a corporation of Tennessee, successor.

155,408. **DUROX.** DYNAMITE. Registered May 30, 1922. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del., a corporation of Delaware. Renewed May 30, 1942.

155,782. **"JIT" DISINFECTO.** A CHEMICAL PREPARATION USED AS A DISINFECTANT, GERMICIDE, DEODORANT, AND INSECTICIDE. Registered June 6, 1922. NEW SOUTHERN DRUG COMPANY, INCORPORATED, Shreveport, La. Renewed June 6, 1942, to Stanco Incorporated, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

156,384. **PD & CO.** CERTAIN NAMED CHEMICAL, MEDICINAL, AND PHARMACEUTICAL PREPARATIONS. Registered June 20, 1922. PARKE, DAVIS & COMPANY, Detroit, Mich., a corporation of Michigan. Renewed June 20, 1942.

156,854. **REPRESENTATION OF THE "JUNKET" GIRL.** PREPARATIONS FOR COAGULATING OR CURDLING MILK. Registered July 18, 1922. CHR. HANSEN'S LABORATORY, INC., Little Falls, N. Y., a corporation of New York. Renewed July 18, 1942.

156,913. **SWEET MAY.** CANNED FRUITS—VIZ. PEARS, APRICOTS, PEACHES, CHERRIES, PLUMS, AND GRAPES. Registered July 18, 1922. H. G. PRINCE & CO., Oakland, Calif. Renewed July 18, 1942, to California Packing Corporation, San Francisco, Calif., a corporation of New York, assignee.

157,187. **ARTEX.** THREADS AND YARNS OF SILK AND ARTIFICIAL SILK. Registered July 25, 1922. A. H. RICE COMPANY, Pittsfield, Mass., a corporation of Massachusetts. Renewed July 25, 1942.

157,301. **FLOSOL.** FLUID SOLDERING FLUX. Registered August 1, 1922. AMERICAN CHEMICAL PAINT COMPANY, Philadelphia, Pa. Renewed August 1, 1942, to American Chemical Paint Company, Ambler, Pa., a corporation of Delaware.

157,369. **NEO-SILVOL.** GERMICIDES AND ANTISEPTICS. Registered August 1, 1922. PARKE, DAVIS & COMPANY, Detroit, Mich., a corporation of Michigan. Renewed August 1, 1942.

157,761. **MMS REPUBLIC.** SERGE IN THE PIECE. Registered August 15, 1922. MORRIS M. SCHER. Renewed August 15, 1942, to M. M. Scher & Sons, Baltimore, Md., a firm, successor.

158,076. **ROBARCO.** BINDERS, BLANK BOOKS, CLIP BOARDS, COPY CLOTHS, VARIOUS PAPERS AND TABLETS, AND FASTENERS, TRAIN ORDERS, WAYBILLS, FILE BACKS AND FOLDERS, AND METAL FILE BOXES. Registered August 22, 1922. ROCKWELL-BARNES COMPANY, Chicago, Ill., a corporation of Illinois. Renewed August 22, 1942.

158,129. **U. S. M. CO.** CERTAIN MACHINES AND PARTS THEREOF AND TOOLS USED IN THE MANUFACTURE OF BOOTS AND SHOES. Registered August 22, 1922. UNITED SHOE MACHINERY CORPORATION, Paterson, N. J., and Boston, Mass. Renewed August 22, 1942, to United Shoe Machinery Corporation, Flemington, N. J., and Boston, Mass., a corporation of New Jersey

158,277. **DIBROMIN.** GERMICIDES AND ANTISEPTICS. Registered August 29, 1922. PARKE, DAVIS & COMPANY, Detroit, Mich., a corporation of Michigan. Renewed August 29, 1942.

158,402. **CHAMPION X.** SPARK PLUGS AND PARTS THEREOF. Registered September 5, 1922. CHAMPION SPARK PLUG COMPANY, Toledo, Ohio, a corporation of Delaware. Renewed September 5, 1942.

158,514. **LACTONE.** BUTTERMILK TABLETS FOR MAKING ARTIFICIAL BUTTERMILK. Registered September 5, 1922. PARKE, DAVIS & COMPANY, Detroit, Mich., a corporation of Michigan. Renewed September 5, 1942.

158,627. **MELBA HALVES.** CANNED PEACHES. Registered September 12, 1922. CALIFORNIA PACKING CORPORATION, San Francisco, Calif., a corporation of New York. Renewed September 12, 1942.

158,643. **STAPAK.** FIBER PAILS, DRUMS, AND CHEESE BOXES AND FIBER CONTAINERS FOR SHIPPING COMMODITIES. Registered September 12, 1922. THE CONTAINER COMPANY, Toledo, Ohio. Renewed September 12, 1942, to The Container Company, Van West, Ohio, a corporation of Ohio.

158,687. **LEONARDO DA VINCI.** ARTISTS' BRUSHES. Registered September 12, 1922. MAX GRUMBACHER. Renewed September 12, 1942, to M. Grumbacher, New York, N. Y., a copartnership, assignee.

158,688. **MURILLO.** ARTISTS' BRUSHES. Registered September 12, 1922. MAX GRUMBACHER. Renewed September 12, 1942, to M. Grumbacher, New York, N. Y., a copartnership, assignee.

158,689. **DIXIE.** ARTISTS' BRUSHES. Registered September 12, 1922. MAX GRUMBACHER. Renewed September 12, 1942, to M. Grumbacher, New York, N. Y., a copartnership, assignee.

158,690. **YANKEE.** ARTISTS' BRUSHES. Registered September 12, 1922. MAX GRUMBACHER. Renewed September 12, 1942, to M. Grumbacher, New York, N. Y., a copartnership, assignee.

158,691. **ROMNEY.** ARTISTS' BRUSHES. Registered September 12, 1922. MAX GRUMBACHER. Renewed September 12, 1942, to M. Grumbacher, New York, N. Y., a copartnership, assignee

158,692. **CARDCRAFT.** ARTISTS' BRUSHES. Registered September 12, 1922. MAX GRUMBACHER. Renewed September 12, 1942, to M. Grumbacher, New York, N. Y., a copartnership, assignee.

158,693. **GAINSBOROUGH.** ARTISTS' BRUSHES. Registered September 12, 1922. MAX GRUMBACHER. Renewed September 12, 1942, to M. Grumbacher, New York, N. Y., a copartnership, assignee.

158,694. **REMBRANDT.** ARTISTS' BRUSHES. Registered September 12, 1922. MAX GRUMBACHER. Renewed September 12, 1942, to M. Grumbacher, New York, N. Y., a copartnership, assignee.

158,817. **RE-NEER.** FURNITURE POLISH. Registered September 12, 1922. S. S. STAFFORD, INC. Renewed September 12, 1942, to S. S. Stafford, Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

158,818. **RENOL.** FURNITURE POLISH. Registered September 12, 1922. S. S. STAFFORD, INC. Renewed September 12, 1942, to S. S. Stafford, Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

158,849. **THE BERKSHIRE.** HAIR NETS. Registered September 12, 1922. WALKER STETSON COMPANY, Boston, Mass., a corporation of Massachusetts. Renewed September 12, 1942.

159,045. **THE EXCHANGITE.** MONTHLY PUBLICATION. Registered September 19, 1922. THE NATIONAL EXCHANGE CLUB, Toledo, Ohio, a corporation of Ohio. Renewed September 19, 1942.

159,110. **SO.** CERTAIN NAMED OILS AND GREASES. Registered September 19, 1922. STANDARD OIL COMPANY (incorporated in New Jersey), Bayonne, N. J., and New York, N. Y. Renewed September 19, 1942, to Standard Oil Company of New Jersey, Wilmington, Del., a corporation of Delaware, assignee.

159,363. **MUSSINI.** ARTISTS' BRUSHES. Registered September 26, 1922. MAX GRUMBACHER. Renewed September 26, 1942, to M. Grumbacher, New York, N. Y., a copartnership, assignee.

159,419. **KWICK LITE.** WHIPPING POWDERS OR FILLERS MADE OF DRIED EGG WHITES AND GELATINE OR THE LIKE AND USED BY BAKERS. Registered September 26, 1922. JOE LOWE CO. INC. Renewed September 26, 1942, to Joe Lowe Corporation, New York, N. Y., a corporation of Delaware, assignee.

159,476. **KEN-NITE.** AUTOMOBILE AND FURNITURE POLISH. Registered September 26, 1922. LEWIS G. PILGRIM. Renewed September 26, 1942, to Fred J. Pilgrim, Detroit, Mich., assignee.

159,804. **"BAY STATE THREAD WORKS" AND DRAWING.** COTTON THREADS. Registered October 10, 1922. BAY STATE THREAD WORKS, Springfield, Mass., a corporation of Massachusetts. Renewed October 10, 1942.

159,885. **GOODYEAR ALL-WEATHER TREAD, ETC.** VEHICLE TIRES COMPOSED OF RUBBER AND RUBBER AND FABRIC. Registered October 10, 1922. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio, a corporation of Ohio. Renewed October 10, 1942.

159,898. **BLUE-DIXIE.** ANTHRACITE AND BITUMINOUS COALS. Registered October 10, 1922. HEDSTROM-SCHENCK COAL CO. Renewed October 10, 1942, to E. L. Hedstrom Coal Co., Chicago, Ill., a corporation of Illinois, by change of name.

159,934. **JO-LO.** DEHYDRATED WHOLE EGGS, DEHYDRATED EGG YOLK, AND DEHYDRATED EGG ALBUMEN. Registered October 10, 1922. JOE LOWE CO., INC. Renewed October 10, 1942, to Joe Lowe Corporation, New York, N. Y., a corporation of Delaware, assignee.

159,978. **CARBONUT.** CHARCOAL. Registered October 10, 1922. PACIFIC BY-PRODUCTS CO., San Jose, Calif. Renewed October 10, 1942, to California Packing Corporation, San Francisco, Calif., a corporation of New York, assignee.

160,133. **AUERBACH.** BATH ROBES, PULLMAN AND BEACH ROBES, AND HOUSE ROBES. Registered October 17, 1922. MORRIS AUERBACH, doing business as The Auerbach Bath Robe Co. Renewed October 17, 1942, to Auerbach Bath Robe Co., New York, N. Y., a firm, assignee.

160,276. **ROPER.** GAS RANGES, GAS PLATES, GAS HEATERS, AND GAS STOVES. Registered October 17, 1922. GEO. D. ROPER CORPORATION, Rockford, Ill., a corporation of Illinois. Renewed October 17, 1942.

160,468. **"DRUMMER BOY", AND DRAWING.** SMOKING AND CHEWING TOBACCO. Registered October 24, 1922. EXCELSIOR TOBACCO CO. Renewed October 24, 1942, to Excelsior Tobacco Co., Inc., St. Louis, Mo., a corporation of Missouri, assignee by mesne assignments.

160,509. **G.-ON THE SQUARE.** LEATHER—VIZ. BENDS, BLOCKS, STRIPS AND OFFAL. Registered October 24, 1922. WILLIAM GRAHAM, New York, N. Y. Renewed October 24, 1942, to William Graham, Brooklyn, N. Y.

160,512. **"DIAMOND-JO" AND DRAWING.** FIRE-BRICK CEMENT. Registered October 24, 1922. A. P. GREEN FIRE BRICK COMPANY, Mexico, Mo., a corporation of Missouri. Renewed October 24, 1942.

160,693. **REPRESENTATION OF FOUR RADIATING LINES.** SPOKES AND NIPPLES FOR VEHICLE WHEELS. Registered October 24, 1922. THE TORRINGTON COMPANY. Renewed October 24, 1942, to The Torrington Company, Torrington, Conn., a corporation of Maine, assignee.

160,882. **PARACIDE.** INSECTICIDES. Registered October 31, 1922. HOOKER ELECTROCHEMICAL COMPANY, Niagara Falls, N. Y., a corporation of New York. Renewed October 31, 1942.

160,883. **PARADI.** INSECTICIDES. Registered October 31, 1922. HOOKER ELECTROCHEMICAL COMPANY, Niagara Falls, N. Y., a corporation of New York. Renewed October 31, 1942.

160,939. **CAPSOLIN.** COUNTERIRRITANTS. Registered October 31, 1922. PARKE, DAVIS & COMPANY, Detroit, Mich., a corporation of Michigan. Renewed October 31, 1942.

160,945. **PURELINE.** CERTAIN NAMED MEDICINAL AND TOILET PREPARATIONS. Registered October 31, 1922. PURELINE COMPANY, INC., New York, N. Y. Renewed October 31, 1942, to Sherwood Refining Company, Inc., Englewood, N. J., a corporation of New Jersey, assignee by mesne assignments.

161,067. **AMERICAN BABY HOSE.** HOSIERY. Registered November 7, 1922. JACOB H. BLAETZ. Renewed November 7, 1942, to George I. Blaetz, doing business as The Blaetz Co., Philadelphia, Pa., assignee.

161,068. **RESCO.** BOOTS AND SHOES MADE OF LEATHER OR FABRIC OR OF A COMBINATION OF LEATHER AND FABRIC. Registered November 7, 1922. ELMER J. BLISS, Boston, Mass. Renewed November 7, 1942, to Regal Shoe Company, Whitman, Mass., a corporation of Massachusetts, assignee.

161,077. **LA ROSE POMPON.** TOILET POWDER, PERFUMES SOLD AS EXTRACTS, TOILET WATER AND LOTIONS, SACHET POWDERS, AND SACHETS. Registered November 7, 1922. A. BOURJOIS & CO. INC. Renewed November 7, 1942, to Bourjois, Inc., New York, N. Y., a corporation of New York, assignee.

161,144. **HILLCREST.** HOSIERY. Registered November 7, 1922. GOLDEN BELT MANUFACTURING COMPANY, Durham, N. C., a corporation of New Jersey. Renewed November 7, 1942.

161,232. **SILVER-SALVARSAN.** A REMEDY AGAINST SYPHILIS, SLEEPING-SICKNESS, TRYPANOSOMIASIS, AND OTHER TROPICAL INFECTIOUS DISEASES. Registered November 7, 1922. H. A. METZ LABORATORIES, INC. Renewed November 7, 1942, to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York, by consolidation.

161,254. **MERCUROSAL.** MEDICINE FOR VENEREAL DISEASES AND CATARRH OF THE MUCOUS MEMBRANE. Registered November 7, 1922. PARKE, DAVIS & COMPANY, Detroit, Mich., a corporation of Michigan. Renewed November 7, 1942.

161,258. **PARADISE.** SILK, WOOL AND COTTON HOSIERY FOR MEN, WOMEN, AND CHILDREN. Registered November 7, 1922. MICHAEL PENSAK, New York, N. Y. Renewed November 7, 1942.

161,311. **"WICKHAM", AND DRAWING.** MEN'S, YOUNG MEN'S, AND BOYS' HATS AND CAPS. Registered November 7, 1922. STRAWBRIDGE & CLOTHIER, Philadelphia, Pa., a corporation of Pennsylvania. Renewed November 7, 1942.

REISSUES

JUNE 23, 1942

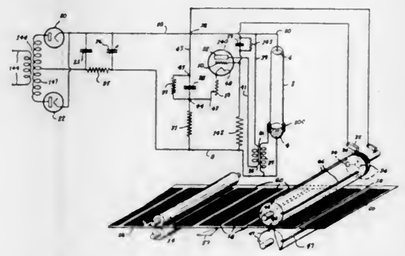
22,123

CUTTING MACHINE

Harold E. Edgerton, Belmont, Mass.

Original No. 2,181,879, dated December 5, 1939, Serial No. 610,045, May 9, 1932. Application for reissue March 11, 1941, Serial No. 382,831

16 Claims. (Cl. 164—68)



1. A cutting machine having, in combination, means for feeding material, means for cutting the material, means for actuating the cutting means to cause the cutting means to cut the material at predetermined points, stroboscopic means for illuminating the material comprising a tube having two metal electrodes and an external electrode, and means synchronized with the actuating means for establishing a high-potential gradient between the electrodes and the external electrode.

22,124

UREA RESINS AND ACID TREATMENT THEREOF

Carleton Ellis, Montclair, N. J., assignor to Ellis-Foster Company, a corporation of New Jersey

No Drawing. Original No. 2,075,804, dated April 6, 1937, Serial No. 689,165, January 28, 1924. Application for reissue October 30, 1940, Serial No. 363,584

12 Claims. (Cl. 260—6)

1. A heat and pressure shaped article containing the reaction products of urea, an acid and formaldehyde.

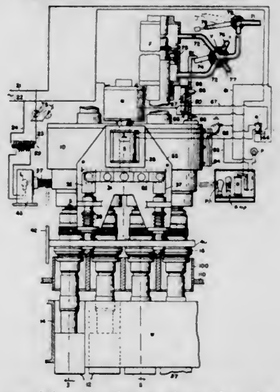
22,125

AUTOMATIC HONING MECHANISM AND CONTROL MEANS THEREFOR

Carl W. Floss, Detroit, Mich.

Original No. 2,164,811, dated July 4, 1939, Serial No. 190,665, February 15, 1938. Application for reissue August 19, 1940, Serial No. 353,319

14 Claims. (Cl. 51—34)

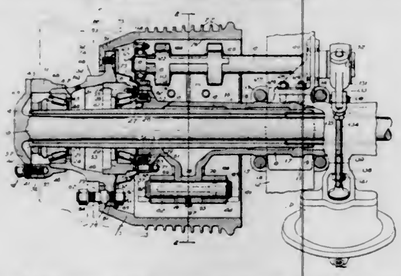


1. In a machine tool construction in combination with a frame, a carriage movable in the frame, a head dismountable with relation to the carriage and movable therewith toward and from a position opposite but spaced from work to be operated upon, a working portion carried by said head and movable laterally into and from engagement with the work when said head is opposite the same, means for moving the carriage, electric motor means, carried by and movable with the carriage, for moving said head, separately controllable means, including a second electric motor means also carried by and movable with the carriage, for moving the working portion laterally, the head, by dismounting the same from the carriage, being separable from said means for moving the working portion laterally, an electric circuit including said first-mentioned electric motor means, a second electric circuit including said second electric motor means, means responsive to movement of the carriage for controlling one of said electric circuits and thereby the action of one of said motor means, and additional controlling means for the other of said circuits.

PATENTS

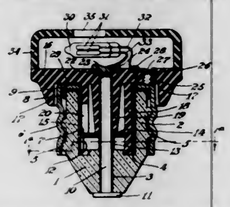
GRANTED JUNE 23, 1942

2,287,009
HUB CONSTRUCTION
Herbert W. Alden, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio
Application June 16, 1939, Serial No. 279,557
2 Claims. (Cl. 301—105)



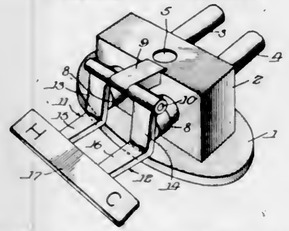
1. A hub assembly comprising a hollow annular forging having an exterior flange and a plurality of spaced internal walls each terminating in an outwardly facing shoulder, the latter being of different diameters; a ring-like forging fixedly seated against one of said shoulders in telescopic engagement with the corresponding internal wall and having an internal wall ending in an outwardly facing shoulder, the flange on said hollow forging providing means for attaching a wheel, and the other internal wall and shoulder of said forging and the internal wall and shoulder of said ring-like forging being operable to receive bearings for rotatably supporting the hollow forging.

2,287,010
MULTIPLE FUSE
Herman Altschule, Newark, N. J., assignor to Utility Electric Corp., East Newark, N. J., a corporation of New Jersey
Application February 24, 1941, Serial No. 380,121
5 Claims. (Cl. 200—125)



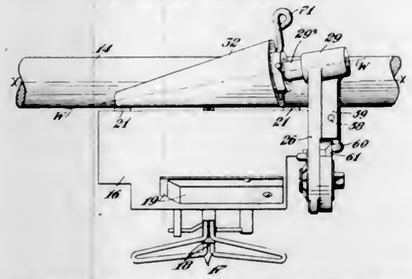
1. In a multiple fuse, a base having a bottom and side walls enclosing an explosion chamber; a plurality of fusible links within said chamber against the side wall; a metal shell around said base and connected with said links; a rotatable top for said base; two concentric sleeves within said chamber the first projecting from the bottom to the top of the chamber and the second from a point above the bottom to the top; a rivet projecting through the base and one of said sleeves; a wiper mounted on said rivet projecting through a slot in one of said sleeves into contact with the links; a resistor directly contacting with said shell and rotatable with the top; and an electric lamp above said top connected between the rivet and said resistor.

2,287,011
FOOT OPERATED WATER CONTROL
Leslie W. Beebe, Oak Park, Ill.
Application November 12, 1940, Serial No. 365,284
7 Claims. (Cl. 74—512)



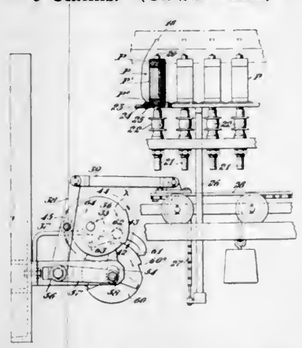
1. In a foot operated mixing device of the kind described, the combination of a pair of levers having laterally extending portions, a treadle carried by and connecting the free ends of said levers, said treadle being rotatable relative both levers and longitudinally movable relative to at least one of said levers.

2,287,012
WINDING MACHINE
Edward J. Abbott, Wilton, N. H., assignor to Abbott Machine Company, Wilton, N. H., a corporation of New Hampshire
Application August 1, 1940, Serial No. 349,106
14 Claims. (Cl. 242—18)



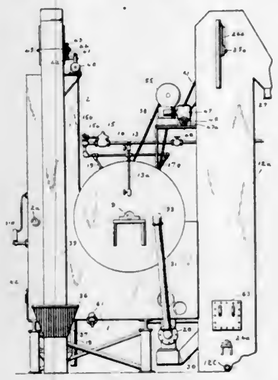
1. A cone winding machine having therein a winding package drive roll, a package arm pivoted at one side of the drive roll and a cone holder associated with the arm and adapted to hold a winding cone in contact with the drive roll, the cone holder being so inclined to the roll when a bare or approximately bare cone rests on the roll that the tip of the cone is inclined toward the side of the roll at which the arm is pivoted, such inclination being sufficient in amount so that substantially throughout the winding of a full cone the axis of the cone progressively approaches a plane passing through the axis of the drive roll whereby the taper of the winding cone is accelerated substantially continuously throughout the winding.

2,287,013
BUILDER MOTION
Edward J. Abbott, Wilton, N. H., assignor to Abbott Machine Company, Wilton, N. H., a corporation of New Hampshire
Application August 1, 1940, Serial No. 349,107
9 Claims. (Cl. 242—43.3)



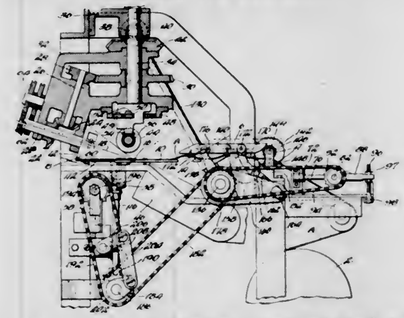
1. Textile apparatus having therein traverse means, and builder motion mechanism therefor comprising a member connected to operate the traverse means and adapted to be oscillated, rotary cam means acting on said member to impart a relatively slow-oscillating movement thereto corresponding to a slow traverse, means acting intermittenly on said member to impart a relatively rapid movement thereto at an end of stroke of its oscillating movement, and timing means including a part rotating with said rotary cam means for stopping and starting said intermittently acting means.

2,287,014
APPARATUS FOR TREATING VEGETABLES WITH HOT WATER AND STEAM
Edwin Allan, Spencerport, N. Y.
Application July 24, 1940, Serial No. 347,169
4 Claims. (Cl. 146—194)



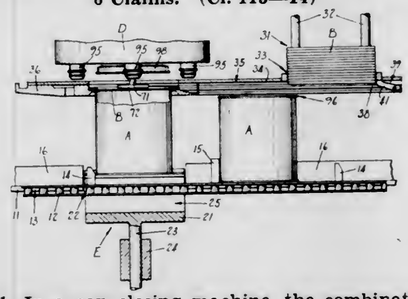
1. In an apparatus for scalding vegetables, the combination of a drum having a disc on each end thereof and baffles extending between the discs and dividing the drum into pockets, openings through the discs into the opposite end of each of the pockets, means for discharging a current of water through said openings into the pockets to carry the vegetables out of said pockets and away from the drum.

2,287,015
PROCESS AND APPARATUS FOR MANUFACTURING PAPER CUPS
Walter E. Amberg, Beverly Shores, Ind., and Stephen W. Amberg, Chicago, Ill., assignors to Universal Paper Products Company, Chicago, Ill., a corporation of Illinois
Application August 3, 1940, Serial No. 350,878
9 Claims. (Cl. 93—36.2)



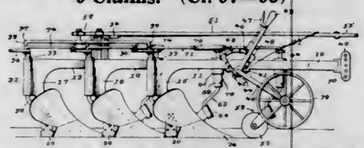
1. A method of forming cone shaped paper cups which comprises continuously unwinding a strip of paper from a roll, continuously feeding said strip of paper with the aid of a feeding means to a forming mandrel and partially severing a marginal area of said paper strip substantially transversely by applying thereto a continuously rotating cutting force rotating about an axis running generally lengthwise with respect to the path of movement of the strip.

2,287,016
CAN CLOSING MACHINE
Neils P. Bach, Geneva, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application May 17, 1939, Serial No. 274,284
6 Claims. (Cl. 113—14)



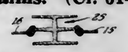
1. In a can closing machine, the combination of can feeding devices, cover feeding devices, a housing for said cover feeding devices including a runway along which the covers are individually fed, a movable centering ring in said housing adjacent an end of said runway and carried on a pivot pin adjacent the path of travel of the can for receiving a fed cover from said runway, said centering ring having a projecting tongue slidably supported in said housing, and a rotatable cam for shifting said centering ring toward a fed can to bring the cover carried therein into a centralized superimposed position relative to the moving can and for moving the centering ring and the cover carried therein back with the moving can while maintaining the cover in a centralized and superimposed position relative to can while the latter moves into sealing position.

2,287,017
PLOW
Edward N. Benefiel, Warren, Ohio, assignor of one-half to Watson Pfouts, Pittsburgh, Pa.
Application January 21, 1941, Serial No. 375,329
9 Claims. (Cl. 97—93)



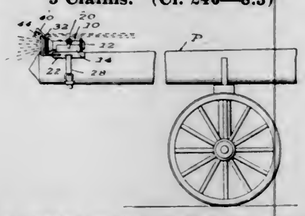
2. In a gang plow construction, a plurality of plows mounted to pivot about a horizontal axis, a coulter arranged to travel in advance of each of the plows and adapted to swing about a vertical axis, a master control means for simultaneously moving the plows and coulters about their respective axes, and means for automatically raising and lowering the coulters simultaneously with the rotation thereof about their axis.

2,287,018
METAL SHEET PILING
Maurice Blumenthal, Brooklyn, N. Y.; Miriam Blumenthal, administratrix of said Maurice Blumenthal, deceased
Application April 25, 1938, Serial No. 204,011
2 Claims. (Cl. 61—60)



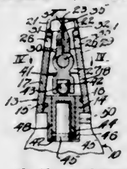
1. In an H piling beam formation including a pair of T beams, said T beams welded to a flat piling, said piling having interlocking means for interconnecting with adjacent piling, said interlocking means extending outwardly and beyond the limit length of said T beams in both directions from the central section of said formation whereby said beam formation may be interlocked with an adjacent beam formation or to a single sheet piling.

2,287,019
TAILLIGHT FOR POLES OR THE LIKE
Frank Benton Bristow, Mobile, Ala.
Application September 30, 1940, Serial No. 359,166
5 Claims. (Cl. 240—8.3)



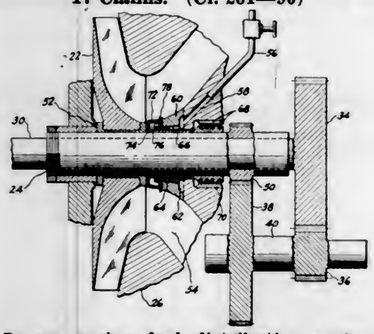
1. In a device of the character described, the combination comprising, a trough member adapted to support a flashlight lengthwise, a lens-supporting frame secured to said trough member and extending across one end thereof, a colored lens mounted on said frame so as to be in an aligned position with the illuminated end of a flashlight supported by said trough member, a reflector inclined toward the lens and also secured to said trough member through said frame, said reflector being positioned above the lower edge of the lens and rearwardly thereof outside of its projected area, and extending in a direction approximately perpendicular to the longitudinal axis of the trough member, whereby a portion of the rays from the flashlight passing through said lens will be intercepted and directed in an opposite direction, and means for securing a flashlight within the trough member.

2,287,020
SHAVER
Eugene C. Brull, Oak Park, Ill.
Application March 16, 1939, Serial No. 262,115
16 Claims. (Cl. 30—43)



1. In a device of the character described, a cutting head having a thin portion with a longitudinally extending slot along the entire length thereof, a flat cutter blade extending longitudinally of the head and having a cutting edge of greater width than the slot, said blade edge being aligned longitudinally with said slot and in engagement with the inner side of said portion, said blade being movable across said portion.

2,287,021
FUEL SUPPLY SYSTEM
Richard S. Buck, Glastonbury, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application November 4, 1939, Serial No. 302,891
17 Claims. (Cl. 261—90)

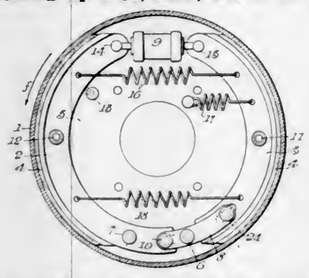


1. In an engine fuel distribution system, an annular air induction device for supplying engine intake air, a rotatable shaft at the center of said device, a hollow annular member rotatable with said shaft having a reentrant portion effective to retain a quantity of liquid fuel in said member at all times during engine operation, means for supplying fuel to the interior of said annular member for distribution by said annular member about said induction device, and means for minutely dividing the fuel leaving said annular member.

2,287,022
CATALYST
Robert E. Burk and Everett C. Hughes, Cleveland Heights, Ohio, assignors to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application March 28, 1939, Serial No. 264,594
4 Claims. (Cl. 252—210)

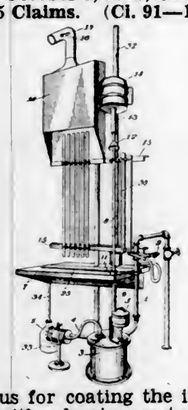
1. In a process of making a catalyst, agitating a solution containing a dissolved manganese salt and undissolved alumina in suspension, and introducing ammonia gas precipitant, and finally completing the precipitation with ammonium hydroxide, and settling both catalyst components together.

2,287,023
BRAKE
James J. Carnes, United States Army
Application September 27, 1941, Serial No. 412,582
10 Claims. (Cl. 188—78)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



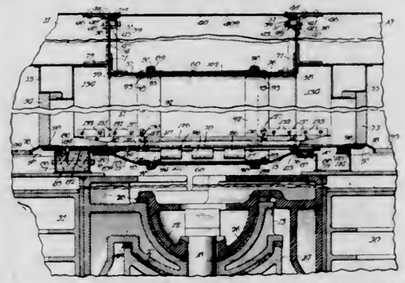
1. In a brake, a drum, a backing plate, a primary shoe, a secondary shoe, actuating means to force said shoes into contact with said drum, an anchor for said primary shoe placed adjacent the end remote from said actuating means, an anchor for said secondary shoe placed adjacent the end closest to said actuating means, and means connecting the ends of said shoes remote from said actuating means, whereby the braking effect of said shoes is substantially equalized, said last mentioned means including a link pivoted intermediate its ends to said backing plate.

2,287,024
APPARATUS FOR COATING FLUORESCENT LAMP TUBING
Ezio Thomas Casellini, Salem, Mass., assignor to Hygrade Sylvania Corporation, Salem, Mass., a corporation of Massachusetts
Application October 5, 1940, Serial No. 359,917
5 Claims. (Cl. 91—18)



3. Apparatus for coating the inner surface of glass tubing with a luminescent coating mixture, said apparatus comprising: a saturation chamber; a closed container for the luminescent coating mixture, said container having an inlet for air and an outlet for said mixture, said inlet for air being connected to said saturation chamber; a support to hold the tubing to be coated in register with said outlet; and a second saturation chamber in position to fit over the top of the tubing to be coated.

2,287,025
VEHICLE DIAPHRAGM
Andrew Christianson, Hammond, Ind., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application November 18, 1937, Serial No. 175,200
10 Claims. (Cl. 105—15)



2. In an articulated unit involving a plurality of vehicles, a passageway between the vehicles, a foot plate in the passageway spanning the distance between vehicles, said passageway being enclosed by an inherently elastic diaphragm in tension between the vehicles and continuous about the passageway, and means comprising guard members at the respective side edges of the foot plate preventing abrasion of the diaphragm thereby.

2,287,026
INSULATING, WATERPROOF, AND CUSHIONING SHOE
Edward C. Craig, United States Navy, and Glen W. Leyde, Arlington, Va.
Application February 17, 1941, Serial No. 379,374
1 Claim. (Cl. 36—55)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

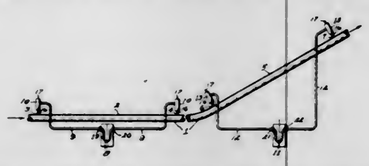


In combination with a shoe of conventional appearance having a leather upper and a conventional sole, an interlining of soft, waterproof, flexible insulating material extending throughout the sole and upper portions thereof, said material being of substantially greater thickness in the sole portion than in the upper portion, providing a substantial cushion therein, said material being of expanded cellular rubber, and a vulcanizing strip securing the thinner upper portion to the thicker sole portion in an integral unit.

2,287,027
METHOD OF AND APPARATUS FOR DETERMINING THE DENSITY OF MATERIALS
William F. Cummins, Jr., Fort Peck, Mont.
Application February 11, 1939, Serial No. 255,904
4 Claims. (Cl. 265—44)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In an apparatus for determining the mean

density of a fluid or a mixture of fluids and solid particles flowing in a pipe line, the combination of a pipe line including equivalent sections in which equal friction losses occur under the same conditions of flow, said sections having different degrees of inclination, differential pressure measuring devices, one of each of said differential



pressure measuring devices being connected at spaced points between an equivalent portion of one of each of said sections, the points of connection of one of said pressure measuring devices, with one of said sections being at a different elevation than the points of connection of another of said pressure measuring devices with another of said sections.

2,287,028

MANUFACTURE OF ARTIFICIAL SPINNABLE MATERIAL

Angelo D'Ambrosio and Arnaldo Corbellini, Milan, Italy

No Drawing. Application March 9, 1938, Serial No. 194,984. In Italy November 26, 1936
16 Claims. (Cl. 106—127)

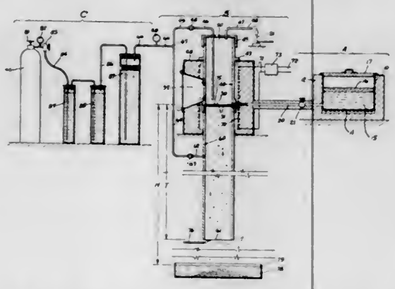
1. The process of preparing a mixed solution of keratin and viscose for the manufacture of artificial material by coagulation, which comprises treating a keratinous material, in a finely powdered state, with an alkali sulphide solution, converting the mass to a fluid condition by a treatment which includes thorough mixing and mechanical kneading, and thereafter mixing the fluid mass with a viscose solution.

2,287,029

METHOD FOR MAKING SHOT

Ralph L. Dowdell, St. Paul, Minn., assignor to Regents of the University of Minnesota, Minneapolis, Minn., a corporation of Minnesota

Application August 14, 1939, Serial No. 289,980
6 Claims. (Cl. 83—91)



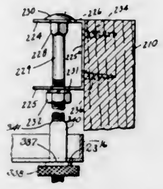
1. A process of making spherical shot which comprises supplying a molten alloy of ½ to 10% magnesium and 99½ to 90% lead to the upper surface of a perforated plate for dropping therethrough, said dropping being carried out in a hydrocarbon gas which is free of water vapor and oxygen.

2,287,030

ADJUSTABLE SEAT FOR CHAIRS AND THE LIKE

Robert E. Eaton, Burlington, Iowa

Application February 23, 1940, Serial No. 320,321
1 Claim. (Cl. 155—179)



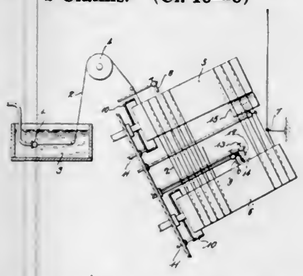
In a chair construction, a rigid substantially rectangular supporting frame, a bracket at each corner of said supporting frame, each bracket including integral spaced arms projecting inwardly from the frame, the arms of each pair having alined openings therein, a bolt extending through the openings of each pair of bracket arms, a lock nut on each bolt clampingly engaged with an arm to hold said bolt rigidly to the arms, a substantially rectangular spring frame associated with said supporting frame, said spring frame including horizontal portions having notches to slidably receive said bolts, and adjusting nuts threadedly engaged with said bolts for adjustment thereon and contacting said horizontal portions to constitute supports for said spring frame.

2,287,031

APPARATUS FOR THE CONTINUOUS AFTER-TREATMENT OF THREADS

Heinrich Frohwein, Oberbruch, Rhineland, Germany, assignor to North American Rayon Corporation, New York, N. Y., a corporation of Delaware

Application September 15, 1939, Serial No. 295,069
In Germany September 29, 1938
2 Claims. (Cl. 18—8)



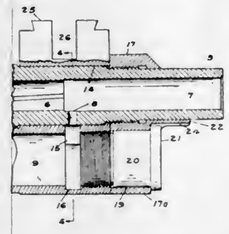
1. An apparatus for use in the continuous after-treatment of threads of artificial origin, comprising a pair of inclined rotatable rollers over which the thread is passed, said rollers being arranged one above the other in spaced relation, means to spray after-treating solution upon each of said rollers, means to feed sizing solution to the lower roller, porous means arranged below said feeding means and having resilient contact with the surface of the lower roller adapted to spread sizing solution in a uniform layer upon a predetermined area of the surface of said lower roller, heating means adapted to heat a portion of the upper roller over which the thread is passed, and a take-up device for collecting the thread.

2,287,032

BARREL AND GAS CYLINDER ASSEMBLY FOR FIREARMS

John C. Garand, Springfield, Mass., assignor to the Government of the United States of America, as represented by The Secretary of War and his successors in office

Application May 4, 1939, Serial No. 271,728
5 Claims. (Cl. 42—3)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



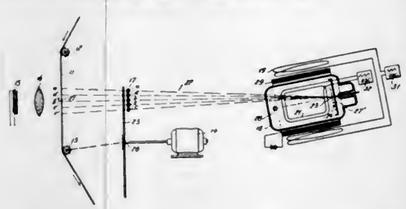
3. In a firearm, a barrel having a gas port, a gas cylinder having a longitudinally slidable and non-rotatable connection with the barrel, a retaining member threaded on the barrel and having a depending apertured lug, a plug inserted through the apertured lug and threaded in the cylinder to hold the retaining member against rotation relative to the barrel, said plug having means for engaging the front face of the lug and cooperating with its connection to the cylinder to longitudinally fix the cylinder with respect to the retaining member.

2,287,033

METHOD AND APPARATUS FOR TELEVISION

Peter C. Goldmark, New York, N. Y., assignor to Columbia Broadcasting System, Inc., New York, N. Y., a corporation of New York

Application May 28, 1938, Serial No. 210,607
19 Claims. (Cl. 178—7.2)



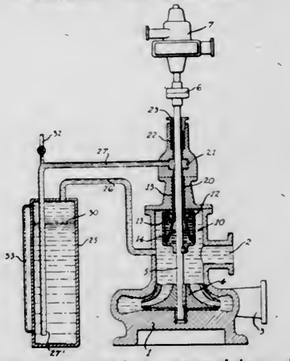
1. Television film-scanning apparatus which comprises a film-feeding mechanism, a source of projection light positioned to illuminate a film in said film-feeding mechanism, a projection system comprising a plurality of fixed projection lenses spaced apart in the direction in which said film is moved, said projection system being positioned and adapted to project film images lying in a plurality of areas separated in the direction in which the film is moved to substantially the same area of a selected image surface, the spacing of said lenses being selected so that said plurality of areas are separated by distances substantially different from the separation of film-frame areas of the film, a scanning device positioned and adapted to scan a projected image lying in said area of the selected image surface, and means for rendering said projection lenses operative successively one at a time.

2,287,034

PUMPING APPARATUS

Aladar Hollander, Los Angeles, Calif., assignor to Byron Jackson Co., Huntington Park, Calif., a corporation of Delaware

Application December 31, 1938, Serial No. 248,730
4 Claims. (Cl. 103—111)



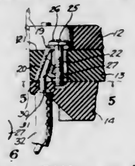
1. Pumping apparatus comprising, in combination: a pump casing having walls defining a chamber adapted to contain pump liquid at a pressure substantially greater than the external pressure to which the casing is exposed, said casing having a shaft opening therein; a pumping element in said casing; pump driving means disposed externally of said casing; a drive shaft extending from said driving means through said shaft opening and through said chamber into driving relation with said pumping element; a stuffing box around the shaft at its juncture with the casing, said stuffing box being exposed internally to the relatively high pressure of the pump liquid in said chamber and being exposed externally to the relatively low external pressure on said casing; and means for preventing leakage of pump liquid from said chamber through the stuffing box, comprising walls defining an intermediate chamber surrounding said shaft between the stuffing box and said first chamber and containing a second liquid dissimilar to said pump liquid, a liquid seal around said shaft and sealing said intermediate chamber from said first chamber, and means for establishing pressure transfer relation between the pump liquid and the second liquid whereby the pressures on opposite sides of said liquid seal are equalized.

2,287,035

SOLDERLESS CONNECTOR

Harvey Hubbell, Long Hill, and Joseph F. Healy, Jr., Bridgeport, Conn., assignors to Harvey Hubbell, Incorporated, Bridgeport, Conn., a corporation of Connecticut

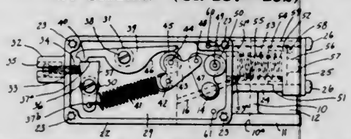
Application January 7, 1941, Serial No. 373,438
6 Claims. (Cl. 173—259)



5. In an electric fitting, a body of insulating material having a shoulder facing forwardly and a recess leading backwardly from said shoulder, a securing member having a base

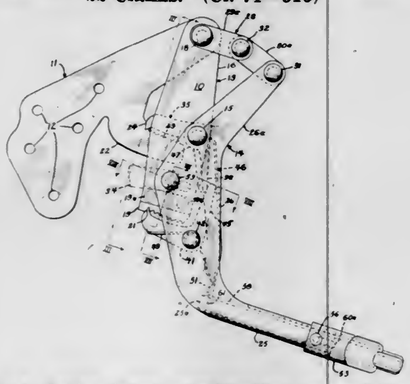
mounted on said shoulder and a gripping portion extending into the recess, a binding screw mounted on said base portion and extending into the recess, said screw having a head exposed for manipulation from the front of the body and also accessible from the side for insertion of a lead wire between the head and base to be clamped against the base, a gripping member threaded on the screw in the recess and guided by the walls of the recess against turning with the screw, said body having a back wall having an opening leading to said recess to guide a wire inserted through said opening to a position between said gripping elements, and said gripping member being operable by the screw to clamp the lead wire against the said clamping portion.

2,287,036
SUCTION GOVERNOR
Raymond Hufford, Anderson, Ind.
Application October 22, 1938, Serial No. 236,395
20 Claims. (Cl. 137—152)



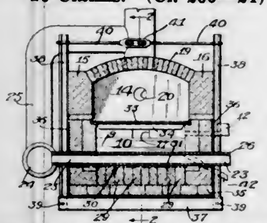
1. A governor for internal combustion engines including fuel supply passage means; eccentrically pivoted valve means therein, a relatively stationary sinusoidal surfaced member, a link type follower therefor, spring means normally constraining the link and follower toward open valve position, a cylinder, and piston means in said cylinder subject to differential pressure in the passage and operable to actuate said valve means in opposition to said spring means.

2,287,037
VARIABLE RATIO BRAKE LEVER
Herbert S. Jandus, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application April 15, 1940, Serial No. 329,617
22 Claims. (Cl. 74—516)



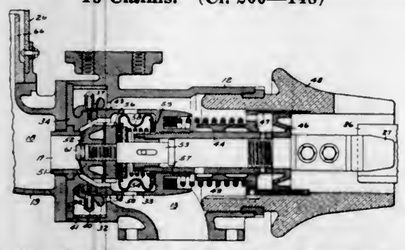
1. A brake lever construction comprising a support, a lever pivotally mounted on said support, a second lever pivotally mounted on said first lever and arranged for connection to a brake setting member, said second lever also being arranged for manual actuation, yieldable spring pressed toggle means for holding said levers in a fixed angular position with respect to each other, means for holding said first lever in an adjusted position with respect to said support, said yieldable toggle means being rendered ineffective to hold said levers in said fixed angular relation when the brake applying force exceeds a predetermined value whereby the fulcrum point of said second lever is shifted from said first pivotal mounting to said second pivotal mounting to change the leverage ratio.

2,287,038
METAL RECOVERY AND REFINING FURNACE
Thomas R. Janes, Langhorne, Pa., assignor to Superior Zinc Corporation, Bristol, Pa., a corporation of Pennsylvania
Application October 11, 1939, Serial No. 299,007
10 Claims. (Cl. 266—24)



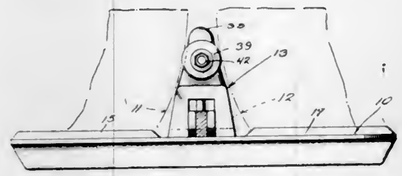
3. A metal-vaporizing furnace comprising a substantially rectangular metal-vaporizing chamber, means for applying indirect heat from above, a plurality of transverse heating tubes disposed beneath said chamber and having small uppermost portions thereof constituting portions of the bottom of said chamber, and means for independently controlling the supply of fuel to each of said tubes whereby the several tubes may be used, independently of each other and independently of the upper heating means, for applying indirect heat to said chamber from below.

2,287,039
ELECTRIC CIRCUIT BREAKER
Gustav E. Jansson, North Quincy, Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application June 10, 1940, Serial No. 339,598
16 Claims. (Cl. 200—148)



1. An electric circuit breaker comprising an arcing chamber having an orifice, a pair of cooperating arcing contacts arranged within said chamber and operable substantially to close said orifice, means for separating said contacts a predetermined maximum distance to define a passage therebetween having a cross-section area smaller than the cross-section area of said orifice, a source of fluid under pressure, means comprising a wall of said chamber and said contacts for defining a gradually converging nozzle ending at said passage, and means defining a path for the flow of fluid from said source to atmosphere comprising said nozzle and said passage, said path having its smallest cross section area at said passage, whereby the fluid pressure within said nozzle is substantially the full pressure of said source and the velocity of said flow of fluid is maximum between the cooperating surfaces of said contacts during opening operation of the circuit breaker.

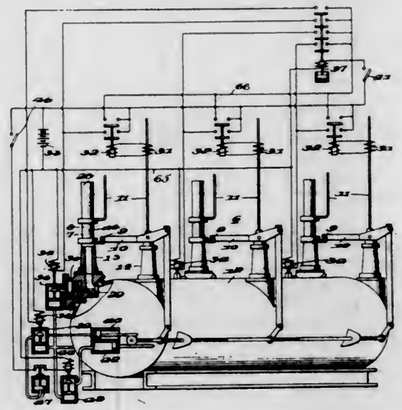
2,287,040
TRACTION DEVICE
William B. Johnson, United States Army
Application November 13, 1941, Serial No. 418,885
3 Claims. (Cl. 152—220)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a traction device, a grouser plate of generally rectangular configuration and of a length greatly in excess of its width whereby it may extend transversely across the tread surface of a pair of tires of a dual tire wheel, the said grouser plate being provided with the tire-engaging lugs on its upper surface, a plurality of ground-engaging cleats on its lower surface adapted to increase the tractional effect of the vehicle with respect to the ground, and a grouser guide portion, the guide portion being positioned centrally with respect to the length of the grouser plate and extending transversely across the width of the plate, its longitudinal dimension being approximately equivalent to the width of said plate and having tapered side walls, said guide portion being provided with a pair of notches at its upper forward corner and upper rearward corner, respectively, each of said notches including a stud and a friction-reducing roller rotatably mounted on said stud, said rollers being positioned in the upper half of the vertical dimension of the grouser guide entirely within the vertical and longitudinal dimensions of the guide and of a diameter to project outwardly on both sides of the guide portion whereby the side wall surfaces of the tires will tend to contact the outer surfaces of the rollers before engaging the tapered side surfaces of the traction device guide.

2,287,041
CIRCUIT BREAKER CONTROL SYSTEM
Didier Journeaux, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application February 23, 1939, Serial No. 258,017
18 Claims. (Cl. 175—294)

1. In combination, a polyphase electric circuit comprising a plurality of phase conductors, a circuit breaker having a plurality of pole portions each comprising cooperating arcing contacts and cooperating disconnecting contacts serially connected with said arcing contacts in a different one of said phase conductors, means responsive to an operating condition of one of said conductors for opening only certain of said arcing contacts connected in said one of said conductors, means operable upon opening of said certain arcing contacts for causing reclosure thereof, and means responsive to said operating condition

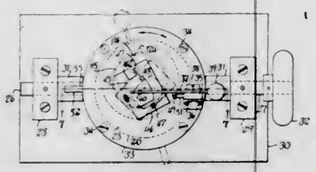


within a limited time following a reclosure of said certain arcing contacts for opening all said contacts.

2,287,042
RAT-PELLAGRA PREVENTING COMPOUNDS AND PROCESSES FOR THEIR PRODUCTION
John C. Keresztesy, Rahway, and Joseph R. Stevens, Plainfield, N. J., assignors to Merck & Co. Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application January 3, 1938, Serial No. 183,138
5 Claims. (Cl. 260—297)

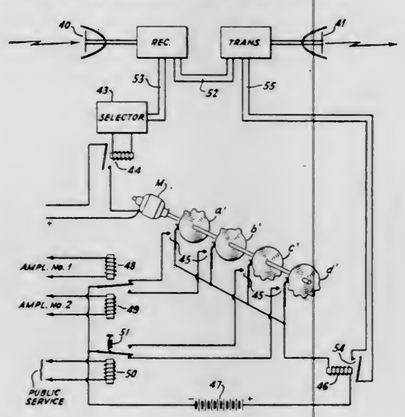
1. The process for isolating the rat-pellagra preventing vitamin principle from concentrates obtained from natural sources, which comprises steps for the destruction, modification, and removal of inactive material from such concentrates by treating the concentrates with mineral acids at an elevated temperature, removal of insoluble inactive matter by filtration, neutralization, evaporation, extraction with alcohol and removal of alcohol from the extract by distillation under reduced pressure; followed by a treatment with alkali at an elevated temperature, removal of insoluble inactive matter by filtration, neutralization, evaporation; extraction with alcohol and evaporation of the alcohol under reduced pressure, followed by drying onto sand, extracting with ether, chloroform and acetone; drying the acetone extract onto sand and repeating the extractions with ether, chloroform, and acetone; evaporating the final acetone extract, acylating the residue with an acylating reagent; extracting the acylated product with chloroform in the presence of water, evaporation of the chloroform extract, hydrolyzing the residue with dilute alkali and neutralizing; followed by precipitation with phosphotungstic acid, dissolving the precipitate in acetone, decomposing the phosphotungstic acid precipitate with barium hydroxide; removing barium phosphotungstate and the other insoluble barium salts, neutralizing, evaporating to dryness; extracting residue in acetone, evaporating the acetone, followed by dissolving in alcohol, acidifying with alcoholic hydrochloric acid; and precipitating the active principle by addition of acetone followed by repeated recrystallization from absolute alcohol.

2,287,043
REGULATING DEVICE FOR TIMEPIECES
Walter Kohlhagen, Elgin, Ill.
Application January 19, 1940, Serial No. 314,609
16 Claims. (Cl. 73—52)



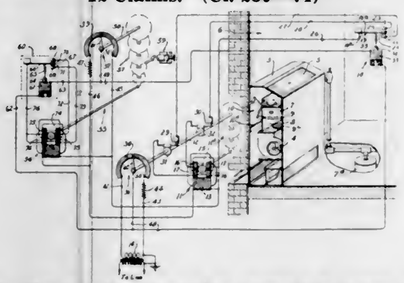
1. A device for regulating timepieces having a movable regulator, comprising: a movement-holder; beat-frequency pick-up means associated with the said movement-holder; shiftable regulator-engaging means carried by the said movement-holder and supported thereby for engagement with the movable regulator of a timepiece being tested whereby the said regulator may be adjusted; guide-means also carried by the said movement-holder and guiding the said regulator-engaging means in a predetermined path of movement; and movement-locating means associated with the said movement-holder and locating a timepiece being tested in predetermined oriented position with respect to the said regulator-engaging means carried by the said movement-holder.

2,287,044
RADIO RELAYING SYSTEM
Fred H. Kroger, Patchogue, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application May 15, 1940, Serial No. 335,217
20 Claims. (Cl. 250—15)



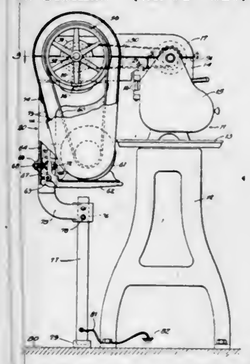
1. In a radio relaying system, a first station, a remote second station, and an intermediate station for relaying signals between said first and second stations, said intermediate station comprising a radio relaying station having two sets of apparatus for alternatively performing the same function, and circuit means at said station responsive to a predetermined signal arriving over one of said other stations for transmitting a characteristic signal indicating which one of said two sets is performing its intended function.

2,287,045
CONTROL APPARATUS
Edgar D. Lilja, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois
Application September 12, 1938, Serial No. 229,559
12 Claims. (Cl. 236—74)



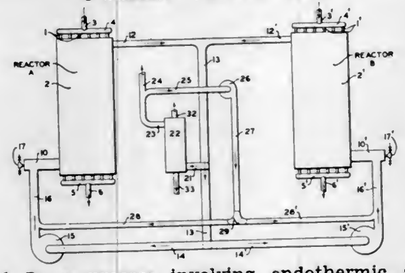
8. The combination of a reversible power operator having a driven member adapted for actuation of conditioning apparatus, a normally electrically balanced mechanism responsive to changes in a condition to be controlled by said apparatus and controlling said operator to modulate the position of said member and in proportion to changes of said condition, a second reversible power operator controlling the balance of said mechanism to produce a slow resetting action, an electric circuit governing the direction and extent of operation of said second operator including two independent voltage regulators respectively actuated by said first and second operators.

2,287,046
LATHE DRIVE MECHANISM
Henry H. Logan, Chicago, Ill., assignor to Logan Engineering Co., Chicago, Ill., a corporation of Illinois
Application March 13, 1941, Serial No. 383,070
13 Claims. (Cl. 74—217)



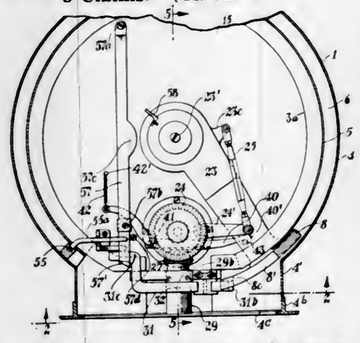
1. A drive mechanism comprising in combination with a driven machine having a driven pulley thereon, a drive mechanism frame mounted at a side of said driven machine, a single point support beneath the frame independent of the driven machine, a countershaft journaled in the frame, a thrust connection between the frame and the driven machine, a driving pulley mounted on the countershaft opposite the driven pulley on the driven machine, a belt mounted around the countershaft driving pulley and the driven pulley on the machine, the two reaches of the belt lying on opposite sides of a horizontal line through the thrust connection, and a driving motor mounted on said frame and having driving connection with said countershaft.

2,287,047
CONTROL OF ENDOTHERMIC AND EXOTHERMIC REACTIONS
Lev A. Mekler, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application September 25, 1939, Serial No. 296,454
5 Claims. (Cl. 252—242)



1. In a process involving endothermic and exothermic reactions simultaneously conducted in separate reaction zones about each of which a convective medium is circulated to control the reaction temperatures therein, the improvement which comprises establishing a separate cycle of convective medium to serve each of said reactions, commingling the convective media of the separate cycles in a zone common thereto, whereby to substantially equalize the temperatures of said media, and thereafter further heating the convective medium in the cycle serving the endothermic reaction, prior to its passage about the endothermic reaction zone, and further cooling the convective medium in the cycle serving the exothermic reaction, prior to its passage about the exothermic reaction zone.

2,287,048
TABERNACLE SAFE
Henry P. Mertel, Ridgefield, N. J.
Application August 2, 1939, Serial No. 287,875
5 Claims. (Cl. 312—33)



1. A tabernacle safe having a doorway, a door for opening and closing said doorway, door-locking mechanism mounted below said doorway and having a bolt-member engageable with the door at the bottom edge thereof, a key-controlled lock arranged beneath said doorway and adapted to be actuated by a key having vertical projections adapted to engage said door-engaging member to release said door-locking mechanism, latching mechanism engageable with said door at the upper edge thereof including a bolt-member, releasing means connected with said last-mentioned bolt-member and also operable by said key-controlled lock, and means operable during the movement of the door for disconnecting said last-mentioned bolt-member from operation by said key-controlled lock.

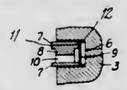
2,287,049
SURFACE TREATMENT OF MAGNESIUM AND MAGNESIUM BASE ALLOYS
Mike A. Miller, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application July 8, 1941, Serial No. 401,463
6 Claims. (Cl. 148—8)

1. The method of cleaning magnesium articles which comprises subjecting said articles to the action of an aqueous solution containing from about 1 to about 10 per cent sulfuric acid and a total of from about 0.5 to about 15 per cent of at least one soluble aromatic compound selected from the group consisting of phenol, resorcinol, pyrogallol, and gallic acid.

2,287,050
SURFACE TREATMENT OF MAGNESIUM AND MAGNESIUM BASE ALLOYS
Mike A. Miller, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application July 8, 1941, Serial No. 401,464
6 Claims. (Cl. 148—8)

1. The method of cleaning magnesium articles which comprises subjecting said articles to the action of an aqueous solution containing from about 1 to about 10 per cent sulfuric acid and a total of from about 0.5 to about 15 per cent of at least one aliphatic polybasic acid selected from the group consisting of oxalic, malic, citric, and tartaric acids.

2,287,051
PACKING RING
Arden John Mummert, University City, Mo., assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo., a corporation of Delaware
Application January 6, 1940, Serial No. 312,772
3 Claims. (Cl. 309—45)



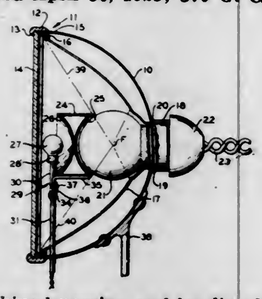
3. A packing ring comprising a pair of ring members positioned side by side in the ring groove of a piston and adapted to contact the wall of the cylinder in which said packing ring is used, one of said members being narrow as compared to its radial thickness, the other member being substantially wide and having formed on the front and rear faces thereof circumferential ribs of less width than said member and located adjacent the side faces of said member remote from said narrow member, and a ring expander positioned between the bottom of the ring groove and said ring members and adapted to engage the rear face of said narrow member and the rib of the rear face of said wide member to exert radial pressure on each of said members.

2,287,052

AIRCRAFT PASSING AND LANDING LAMP

Charles L. Munroe, France Field, C. Z., and James H. Herr and Arnold D. Dircksen, Dayton, Ohio

Application September 26, 1940, Serial No. 358,468
2 Claims. (Cl. 240—41.35)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A combined passing and landing lamp comprising a parabolic reflector, a hub at the vertex of said reflector, a main lamp socket supported in said hub with its axis coincident with the principal axis of said reflector, a main lamp bulb in said socket with its filament positioned at the principal focus of said reflector, an auxiliary lamp support extending inwardly through the side of said reflector transversely to said principal axis, an auxiliary lamp socket on the inner end of said support, an auxiliary lamp bulb in said auxiliary socket, a hinge in said support intermediate the auxiliary lamp bulb and the side of said reflector, dividing said support into an outer stationary end and an inner swingable end, two concave reflectors intermediate the two bulbs both supported on said swingable end, the one, when in its operative position, having its concave side toward and its center coincident with the main lamp filament, the second, when in its operative position, having its concave side toward and its axis passing through the auxiliary lamp filament, a stop to arrest said swingable end when said reflectors are swung to the operative position and means to fasten said swingable end in said position.

2,287,053

ALUMINUM BRONZE CONTAINING COMPOSITIONS

Dean Murphy, Rahway, N. J., assignor, by mesne assignments, to Chadeloid Chemical Company, a corporation of West Virginia

No Drawing. Application October 11, 1938, Serial No. 234,489
8 Claims. (Cl. 260—29)

1. A bronze composition adapted to yield an opalescent effect on articles having a substantially continuous surface containing a nitrocellulose lacquer, from 2 to 40% of non-metallic pigment based on the solids content of the composition, from 0.1 to 10% of aluminum bronze based on the solids content of the composition, the pigment and aluminum bronze together constituting from 6½ to 45% of the composition.

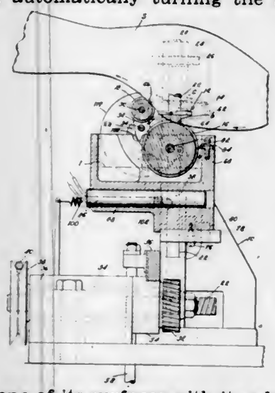
2,287,054

SOLE EDGE INKING MACHINE

Ernest S. Nokes, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey

Application February 19, 1940, Serial No. 319,663
15 Claims. (Cl. 12—17)

1. In a machine for finishing the peripheral edge of an unattached sole, inking means for applying ink to the edge of the sole, burnishing means for polishing the ink applied to said edge, and feeding means for gripping the margin of the sole and automatically turning the sole in the



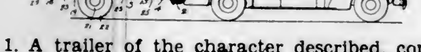
plane of one of its surfaces with its edge simultaneously against both the inking and burnishing means, said inking means being spaced laterally from the burnishing means a distance less than the width of the sole at its narrowest point.

2,287,055

TRAILER

Oscar W. Olson, Portland, Oreg.

Application February 20, 1939, Serial No. 257,345
13 Claims. (Cl. 296—23)



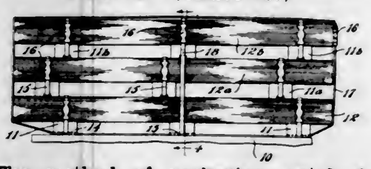
1. A trailer of the character described, comprising a mobile vehicular support, a frame for said support, said frame provided with a marginal member having an upstanding vertical web formed thereon and a horizontal web of limited width joined thereto defining a recess, and a removable body for said trailer, said body being formed of a plurality of sections each having a flat end hingedly secured to a similar end of another body section and adapted in closed position to be stacked one on the other, the lowermost body section adapted to seat in said recess conforming to the frame dimensions and adapted to rest upon said horizontal web and to be closely encompassed by said vertical web.

2,287,056

PACKAGING OF SHEET MATERIAL

Walter Lee Owens, Chesterfield, Ind., assignor to Robert W. Shoemaker, Anderson, Ind.

Application March 25, 1940, Serial No. 325,781
3 Claims. (Cl. 206—60)



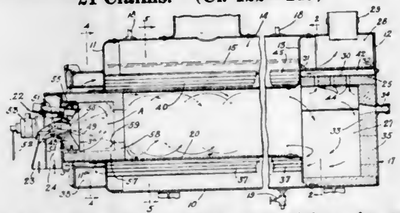
1. The method of packaging metal sheets which consists in positioning upon a horizontal support, a plurality of longitudinally spaced, transversely disposed blocks having longitudinal grooves in their lower surfaces, then positioning a stack of sheets on top of said blocks, then positioning another plurality of longitudinally spaced, transversely disposed blocks having longitudinal grooves in their lower surfaces, on top of said stack of sheets and vertically staggered relative to the first named blocks, then positioning another stack of sheets on top of the second named blocks, forming superimposed tiers of stacks of sheets, and then separately wrapping flat steel bands transversely around each stack of sheets and through the grooves of its supporting blocks to form a plurality of superimposed tiers of separately banded bundles of sheets.

2,287,057

STEAM PRODUCTION SYSTEM

Charles B. Page, Evanston, Ill., assignor to Steam and Combustion Company, Racine, Wis., a corporation of Wisconsin

Application July 27, 1936, Serial No. 92,735
21 Claims. (Cl. 122—149)



1. A boiler construction comprising, in combination, an outer casing providing a steam conversion chamber, an inner casing defining a combustion chamber of smaller diameter than said conversion chamber passing therethrough in heat transferring relation to the water contained therein, and a bank of return tubes for the combustion gases from said combustion chamber passing through the lower region of the body of water principally below a horizontal median plane through said combustion chamber and in part below said combustion chamber, said bank of tubes being divided into two groups affording an unobstructed space in a vertical plane below said combustion chamber to permit upward circulation of water into contact with the latter chamber.

20. In a system of steam production the steps of forcing a whirling mass of ignited fuel and primary air toward the interior of a combustion chamber, enveloping said mass in an oppositely whirling spaced layer of secondary air traveling in the same axial direction as said mass, permitting said mass and secondary air to travel in substantially separated condition until both have become heated, and then abruptly uniting said mass and the secondary air to produce intense complete combustion.

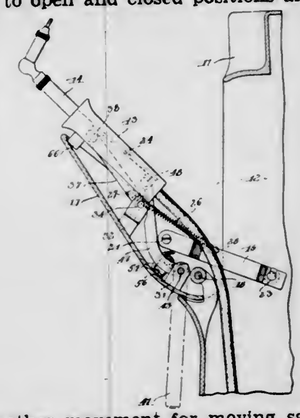
2,287,058

DENTAL APPARATUS

Alphonse F. Pieper, Brighton, N. Y.

Application April 9, 1941, Serial No. 387,705
4 Claims. (Cl. 32—24)

1. In a dental equipment stand comprising a hollow frame having an opening in a wall thereof, a closure for said opening movably supported on said frame, and an instrument carrier movably supported on the inner side of said closure, the combination with said closure and carrier of a common manually movable member for moving said closure and carrier, means connecting said member with said closure, and means connecting said member with said carrier, said member having one movement for moving said closure to open and closed positions and having



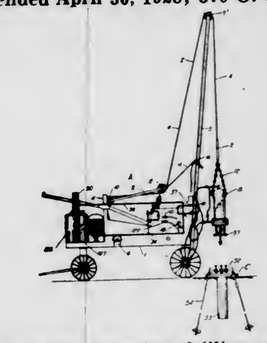
also another movement for moving said carrier on said closure when said closure is moved to open position, to present instruments held in said carrier in readily accessible position outside said frame.

2,287,059

APPARATUS FOR OBTAINING SOIL SAMPLES

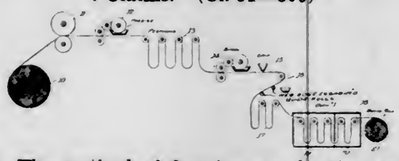
Ralph N. Platts, Jackson County, Mo., Francis B. Slichter, Johnson County, Kans., Ernest L. O'Donnell, Jackson County, Mo., and Preston T. Bennett, Johnson County, Kans.

Application May 25, 1940, Serial No. 337,210
16 Claims. (Cl. 255—1.4)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a power operated drilling machine, the combination with a prime mover including a pressure cylinder, a reciprocatory piston within the cylinder, means for supplying pressure to the upper and lower faces of the piston through the opposite ends of the cylinder, means for connecting the piston with an interchangeable drilling implement and coupling means carried by the prime mover; of a ground anchored assembly including a base, a coupling collar on the base, interacting means between the coupling collar and coupling means carried by the prime mover for effecting a rigid but quick detachable engagement between the prime mover and ground anchored assembly, and means for clamping the base on and firmly securing it to the ground, said means including a plurality of anchoring rods and coacting means on the upper ends of the rods and said base.

2,287,060
METHOD OF MAKING WATERPROOF SANDPAPER
Byron J. Oakes, St. Paul, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
Application March 10, 1933, Serial No. 660,318
Renewed March 1, 1940
7 Claims. (Cl. 51—300)

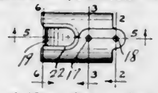


1. The method of forming an abrasive article including the steps of applying to a backing material a sizing coating of a "balanced composite" waterproofing material of a polymerized resin-oil complex homogeneously distributed in a volatile vehicle, aerating the backing so treated to remove a portion of the volatile vehicle and oxidizing the sizing coat, applying a "balanced composite" waterproofing binder coating thereover comprising a resin-oil complex homogeneously, distributed in the volatile vehicle, depositing a grit or layer of abrasive particles, diverting the abrasive particles from the binder coating in a direction away from the adhesive for removing the excess of the abrasive particles and then aerating to remove the volatile vehicle to the end point of evaporation of the volatile vehicle, oxidizing the residuum in the presence of heat, the web being passed through the aeration and oxidizing steps under conditions leaving the abrasive surface exposed and free from external pressure until the coatings applied are set.

2,287,061
PROCESS FOR PRODUCTION OF ALKALI METAL CHLORATES, AND MORE PARTICULARLY POTASSIUM CHLORATE
Sidney G. Osborne, St. Davids, Ontario, Canada, and Robert B. Lowry and Walter S. Beanblossom, Niagara Falls, N. Y., assignors to Hooker Electrochemical Company, Niagara Falls, N. Y., a corporation of New York
Application April 15, 1940, Serial No. 329,738
15 Claims. (Cl. 23—85)

1. The process for production of alkali metal chlorate from electrolytic caustic soda-chlorine cell effluent with avoidance of evaporation of water therefrom which comprises electrolyzing sodium chloride in an electrolytic cell, carbonating the caustic alkali out of the resulting cell effluent as far as practicable to sodium bicarbonate, filtering out the resulting precipitated carbonation product, recycling the filtrate to the anode compartment of the electrolytic cell, introducing said carbonation product into an aqueous menstruum in quantity sufficient to take into solution at 50° to 70° C. most of the chlorate but only a little of the chloride which may be produced by chlorinating said carbonation product, chlorinating said carbonation product to produce the corresponding chlorate, recycling the resulting carbon dioxide to the carbonation step, filtering out chloride and recycling it to the anode compartment of the electrolytic cell, crystallizing out and removing chlorate from the filtrate, recycling the mother liquor to the chlorination step to serve as menstruum for said carbonation product and introducing into the system make-up water and chloride to supply the oxygen and chlorine withdrawn from it with the product.

2,287,062
FINGERNAIL GUARD
Bernerd T. Powers and Cecil Paddock, San Francisco, Calif., assignors to P. & P. Manufacturing Company, Emeryville, Calif., a corporation of California
Application February 26, 1940, Serial No. 320,859
10 Claims. (Cl. 132—88.5)



1. In a device of the character described comprising a main body portion having a pair of side walls recessed to provide an aperture to expose the nail of a finger to be ornamented, an extension formed integral with said main body portion and folded upon itself to provide a resilient support for the finger, and pivotal means carried by said body for confining the ornament ing medium to the fingernail being treated.

2,287,063
CONTAINER CLOSURE LINER
James Wallace Raynolds, Pittsburgh, Pa., assignor to The Raolin Corporation, Charleston, W. Va., a corporation of West Virginia
Application January 30, 1939, Serial No. 253,681
3 Claims. (Cl. 288—34)



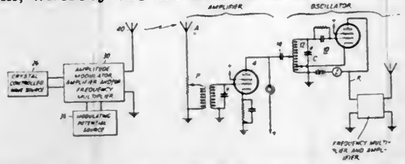
1. A liner for container closures, comprising a paper base having sufficient density to minimize permeation by a coating solution applied thereto, and a coating applied to said paper base and adapted to protect the said base from greases, petroleum hydrocarbons and solutions of acids, bases and salts, said coating consisting principally of rubber chloride, and containing polymerized vinyl acetate in an amount from 5 to 30 per cent of the amount of rubber chloride.

2,287,064
STABLE DRY COMPOSITIONS USEFUL AS BLEACHING AND OXIDIZING AGENTS
Joseph S. Reichert, Samuel A. McNeight, and Arthur A. Elston, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 1, 1940, Serial No. 332,728
11 Claims. (Cl. 252—186)

1. A dry, stable composition which yields in aqueous solution an oxidizing agent of high activity, said composition comprising a solid inorganic peroxygen compound and an organic acid anhydride.

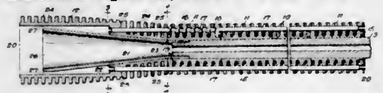
2,287,065
MODULATION AND RELAY
Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 29, 1940, Serial No. 326,583
4 Claims. (Cl. 250—15)

1. In a high frequency modulated wave relaying system, a receiver excited by wave energy of substantially fixed frequency the amplitude of which is varied at signal frequency, a source of oscillations of a frequency slightly different than the frequency of said received wave energy, means coupling said receiver to said source of oscillations to entrain the latter by the received wave energy to an average frequency synchronism, whereby the oscillations of said source are



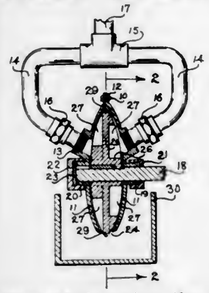
controlled as to phase in accordance with variations in the amplitude of the received wave energy, and phase modulated wave translating means coupled to said source of oscillations.

2,287,066
HEAT EXCHANGE UNIT
George D. Rogers, United States Army, Dover, N. J.
Application August 21, 1940, Serial No. 353,521
6 Claims. (Cl. 257—263)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



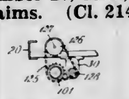
1. A heat exchange unit comprising an axially bored radiator section, a plurality of radiator fins formed on said section in outwardly projecting relation thereto and being provided with spaced openings arranged in longitudinally aligned relation, a plurality of tubular conduits inserted through the openings in certain of said fins and wound around the portion of the section between adjacent pairs of certain other of said fins in heat conducting relation.

2,287,067
METHOD OF MECHANICALLY CHANGING CHARACTERISTICS OF LIQUIDS
Hermann H. Schmidt, Hanover, Kans., assignor to The Universal Royalty and Development Company, St. Joseph, Mo., a corporation of Missouri
Application March 17, 1938, Serial No. 196,524
10 Claims. (Cl. 299—63)



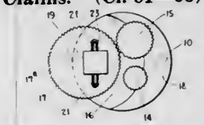
1. The method of changing the physical characteristics of a liquid, comprising dividing said liquid into a plurality of portions, separately introducing each of said portions into a defined space freely open to the atmosphere, rotatively impelling separately from one another the portions of said liquid at a rapid rate immediately upon introduction into said space to create a whirl of all the liquid in said space, bombarding walls with said liquid while under the influence of the centrifugal force of said whirl, creating streams of the liquid of said portions while under the influence of said centrifugal force and directing said streams into violent engagement with each other to finely divide said liquid.

2,287,068
APPARATUS FOR TRANSPORTING FREIGHT
Harold W. Shonnard, Montclair, N. J.
Application December 17, 1938, Serial No. 246,318
25 Claims. (Cl. 214—38)



1. A transfer vehicle of the class described, transverse guides thereon adapted to support a transferrable body, means on the vehicle for moving the body along the guides to or from an adjacent platform a distance exceeding the overall width of the transfer vehicle, said means comprising a reversible power driven sprocket chain permanently confined substantially within the overall width of the vehicle, a member on the chain arranged to engage the body directly, and means for operatively interconnecting the chain and the body when said body is not in position to be engaged by the member on the chain, said chain moving in one direction only during a complete transfer of said body.

2,287,069
STUD REMOVER
Arthur P. Stone, Akron, Ohio, assignor to The Wright Tool and Forge Company, Barberton, Ohio, a corporation of Ohio
Application September 6, 1938, Serial No. 228,489
2 Claims. (Cl. 81—53)

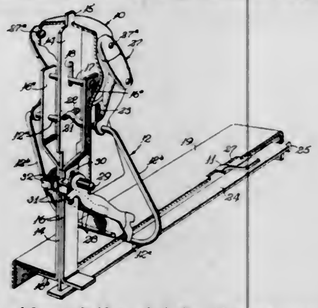


1. A stud remover comprising a block formed with two adjacent apertures of different sizes for receiving studs of various sizes, the bottom of said block being recessed, a shaft rotatably extended through said block, said shaft having eccentrically secured on its bottom end a gripping wheel, the lower face of which is substantially flush with the bottom surface of the block, the spacings of said apertures with respect to the axis of said wheel and the proportions of the wheel being such that the wheel may be turned on its axis to grip studs or the like of various sizes in either of said apertures against portions of the walls thereof remote from the axis but permitting the wheel to be turned to a position in which it clears both apertures, and means on said shaft at the top of said block for rotating said shaft relative thereto to move said wheel to grip a stud in either of said apertures against said remote portions thereof and by continued rotation of the shaft to turn said block so as to turn a stud gripped in the block.

2,287,070
MECHANICAL TOY
Arthur W. Swenson, Rockford, Ill.
Application November 30, 1939, Serial No. 306,880
19 Claims. (Cl. 46—129)

1. In a mechanical toy, the combination of a figure, a vertically reciprocable actuator bar

projecting upwardly into the interior of said figure from the bottom thereof, said actuator bar being transversely slotted at a point within the figure, a U-shaped member arranged with the base of the U extending through said slot and rotatable about an axis transverse to the figure, the arms of the U being arranged to turn vertically at the sides of the figure in the manner of a skipping rope, the base portion of the U having an offset crank loop therein engageable

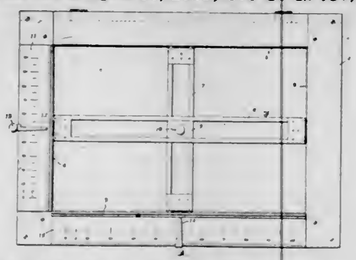


with the sides of the slot in the actuator bar, said U-shaped member having a rest position with its arms hanging downwardly, and manually operable means for intermittently drawing the actuator bar downward to swing said U-shaped member from said rest position through a half revolution by the action of said crank and slot connection, the subsequent gravitational descent of the arms of the U to their rest position serving to complete a full revolution for the U-shaped member.

2,287,071
ORGANIC AMINE DERIVATIVES AND METHOD OF OBTAINING SAME
Edward W. Tillitson, Detroit, Mich., assignor to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan
No Drawing. Application August 8, 1938, Serial No. 223,763
15 Claims. (Cl. 260—211)

1. Method for obtaining a derivative of an organic amine which comprises heating to a temperature not substantially above 155° C. to effect a reaction between an aldo-sugar, an alkali metal bisulfite and an organic amine having a replaceable amino hydrogen atom.

2,287,072
APPARATUS FOR PLOTTING SPOT GRAPHS
Leonard G. Townsend, Washington, D. C.
Application July 11, 1940, Serial No. 344,932
4 Claims. (Cl. 33—189)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

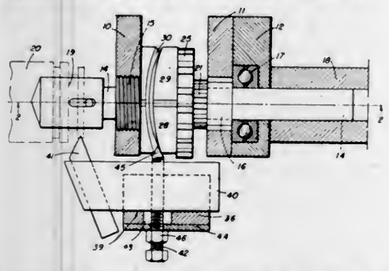


1. A plotting device for plotting points in a system of cartesian coordinates comprising a support providing a surface for supporting a sheet on which points are to be plotted, a frame member overlying said surface, said frame member being provided with at least two pairs of tracks arranged at an angle to each other, a pair of longitudinally slotted members mounted on respective pairs of said tracks for independent movement over said supporting surface at right angles to the respective slots therein, a marking means located partially within the slots of each of said slotted members, whereby said marking means is moved responsive to movement of either of said slotted members and a graduated scale aligned with the path of movement of each of said slotted members.

2,287,073
METHOD FOR PRODUCING CHROMIUM-BEARING ALLOYS
Marvin J. Udy, Niagara Falls, N. Y.
No Drawing. Application November 8, 1939, Serial No. 303,363
11 Claims. (Cl. 75—27)

1. The method of incorporating chromium in molten metal which comprises igniting in contact with the molten metal an exothermic reaction mixture comprising particles of low-carbon, low-silicon ferrochrome silicon containing not more than twenty percent of silicon and less than 0.10 percent of carbon, and oxidizing material capable of reacting with the silicon of the ferrochrome silicon to develop sufficient heat to melt the iron and the chromium of the ferrochrome silicon and containing a large proportion of one or more compounds of the group consisting of sodium nitrate, sodium chlorate, calcium chromate and sodium dichromate.

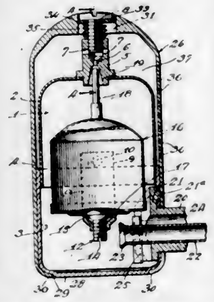
2,287,074
ATTACHMENT FOR SCREW MACHINES
Nathaniel Young, Kittery, Maine
Application April 5, 1941, Serial No. 387,015
1 Claim. (Cl. 29—57)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



A thread cutting attachment for screw machines comprising a frame; a lever pivotally mounted on said frame; a tool holder mounted for reciprocation on said lever; a lead cam rotatable by the stock being threaded, said lead cam having a portion for moving said holder and tool carried thereby on said lever and along the stock being threaded through a cutting stroke, a portion for moving said holder through a return stroke and a portion for swinging said lever about its pivot to hold said tool out of engagement with the stock during its return stroke; and a locking cam having a portion engageable with said lever for holding said lever against swinging movement about its pivot during the cutting stroke of said tool and a portion

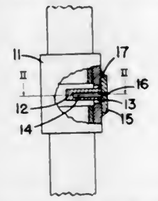
for releasing said lever to permit it to be swung to a position in which said tool is out of engagement with the stock during said return stroke.

2,287,075
VENT VALVE
William A. Yonkers, Chicago, Ill., assignor to Jas. P. Marsh Corporation, Chicago, Ill., a corporation of Illinois
Application July 15, 1939, Serial No. 284,596
18 Claims. (Cl. 236—64)



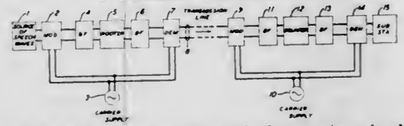
15. In a vent valve, the combination with a tubular valve chamber having a valve-controlled vent opening at one end thereof, of a tubular housing of greater length than said chamber telescoped over said chamber to form a muffler chamber surrounding said one end and extending along the sides of said valve chamber providing for the expansion of fluid medium discharged from said vent opening into said muffler chamber, said housing having a plurality of exhaust ports arranged in axially spaced relation to each other at progressively increasing distances from said vent opening for exhausting said fluid medium at various reduced velocities.

2,287,076
GAS PORT COUPLING
Guy R. Zachry, Hobbs, N. Mex., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 26, 1940, Serial No. 371,722
2 Claims. (Cl. 166—1)



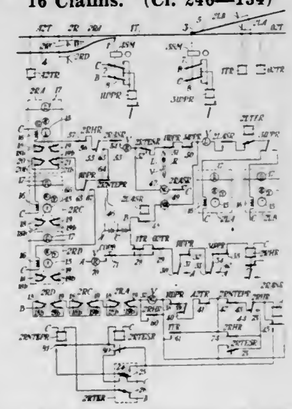
1. Means suitable for arrangement in a producing string comprising, in combination, a section of conduit, a frangible member secured to the wall of said conduit in a fluid-tight manner and extending inwardly, a second member of relatively shock-resistant material secured to the exterior of said conduit in a fluid-tight manner to entirely cover said frangible member, a relatively small orifice in said second member, a passage of larger size in said frangible member, said passage being arranged with one end in communication with said orifice and extending a substantial distance in said member, but without fluid communication with the interior of said conduit, and abrasion-resisting means arranged on the exterior of said shock-resisting member adjacent said orifice.

2,287,077
VOLUME RANGE CONTROL IN SIGNAL TRANSMISSION SYSTEMS
Leonard G. Abraham, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 19, 1941, Serial No. 403,135
9 Claims. (Cl. 179—1)



1. In a signal wave transmission system including an intermediate wave transmission medium, the method of signaling so as to effectively increase the transmission range of the system, which consists in first modulating a signal wave of a band of signal frequency components to be transmitted with a carrier wave of a given frequency to shift the band to a higher position in the frequency spectrum such that one side-band of the modulation products is within the frequency limits of said medium, compressing the volume range of said side-band in a given ratio to bring it within the volume range limits of said system, selecting from the compressed wave and transmitting over said medium a band of frequencies having the frequency limits of said side-band before compression, and at a receiving point selecting the transmitted band, producing an expansion of the volume range of the selected band which is complementary to the compression produced at the transmitting end of said medium, selecting from the expanded wave a particular band having the same frequency limits as the selected band before expansion, and modulating said particular band with a second carrier wave of said given frequency to reproduce the original signal wave.

2,287,078
RAILWAY TRAFFIC CONTROLLING APPARATUS
Earl M. Allen, Swissvale, and Henry S. Young, Wilkinsburg, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application October 4, 1940, Serial No. 359,700
16 Claims. (Cl. 246—134)



1. In combination, a stretch of railway track

including a track switch for establishing a high speed or a diverging route, a signal indicating proceed, slow speed or stop for governing the movement of traffic over said routes, a polarized relay, means for energizing said relay in one direction over a circuit controlled by traffic on said stretch and by said switch and effective when traffic and switch conditions are suitable for the high speed route, other means for energizing said relay in the opposite direction when said switch is set for the diverging route, manually controllable means also effective when said switch is set for the high speed route but traffic conditions on said stretch are unfavorable for such route for energizing said polarized relay in said opposite direction, and means for controlling the signal to its proceed or its slow speed indication according as said relay is energized in its said one direction or is in its opposite position.

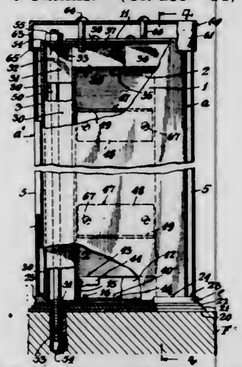
2,287,079

CUBICLE ASSEMBLY

Thomas F. Anderson, Cleveland, Ohio, assignor to The Sanymetal Products Co., Inc., Cleveland, Ohio, a corporation of Ohio

Original application December 19, 1938, Serial No. 246,634. Divided and this application March 18, 1941, Serial No. 383,919

6 Claims. (Cl. 189—34)



1. In a partition assembly, an upright member forming a combination structural support and wall panel, said upright member comprising a pair of spaced substantially flush panel sheets secured together in fixed spaced relationship, a tube secured to and positioned between said sheets, a tie rod extending through said tube, means for securing said rod to the building floor, and take-up means associated with said tie rod for fixedly and rigidly securing said upright member thereto.

2,287,080

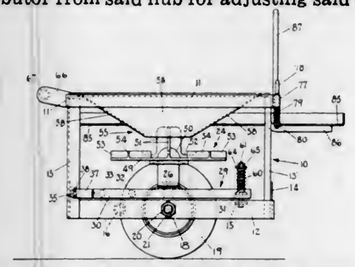
SPREADER

Franklin E. Arndt, Galion, Ohio, assignor to The Galion Iron Works & Manufacturing Company, a corporation of Ohio

Original application November 5, 1937, Serial No. 173,000, now Patent No. 2,243,939, dated June 3, 1941. Divided and this application July 22, 1939, Serial No. 285,935

3 Claims. (Cl. 275—8)

1. A material distributor assembly comprising a support, an upstanding shaft secured to said support, a rotary distributor, a hub detachably secured to the central portion of the underside of said distributor, spaced-apart thrust bearings within said hub for journaling the latter to said shaft, the underside of said rotary distributor being adapted to be in frictional driving engagement with the periphery of a ground engaging wheel, and means accessible upon detaching said distributor from said hub for adjusting said thrust



bearings to confine said hub against movement axially of the shaft during up and down movements of the distributor together with said shaft and said support while said distributor is being driven by said ground engaging wheel.

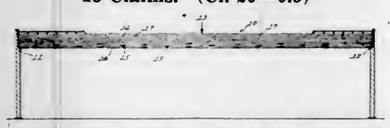
2,287,081

STRUCTURAL ELEMENT

P. Bobbin Attwell, Seattle, Wash., assignor to I. F. Laucks, Inc., Seattle, Wash.

Application May 20, 1940, Serial No. 336,272

15 Claims. (Cl. 20—0.5)



1. A structural unit, such as a beam, girder or timber, of the type adapted to have portions subjected to tensional strains and other portions subjected to compression forces when in load supporting condition, said unit comprising a plurality of elongated boards or planks horizontally aligned in end to end relation and superimposed in layers with the contacting surfaces thereof adhesively united by a glue bond, the boards or planks in the layers in the portion subjected to tensional strains being connected at their ends by angularly cut, glue-bonded scarfed joints and the boards or planks in the layers in the portion subjected to compression forces being connected at their ends by substantially square-cut butt joints.

2,287,082

PROCESS FOR THE PRODUCTION OF IRON POWDERS

Karl Bauer, Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to Chemical Marketing Company Inc., New York, N. Y.

No Drawing. Application November 19, 1938, Serial No. 241,462. In Germany December 16, 1937

3 Claims. (Cl. 204—10)

1. A process for the production of iron powder of great reactivity, which comprises electrolyzing a ferrous chloride solution containing ammonium chloride at a current density of 6–7 amperes per dcm.^{2} in the presence of formic acid in such a quantity that the pH value of the solution lies between 6.5 and 7.2.

2,287,083

MOLD FOR USE IN MANUFACTURING CIGARS

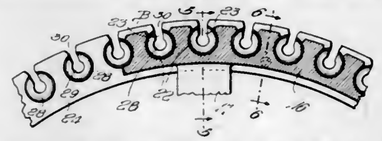
Edward Wood Berriman, Tampa, Fla.

Application September 11, 1939, Serial No. 294,378

1 Claim. (Cl. 131—87)

A cigar making mold comprising a rotary drum

having a series of bunch shaping channels extending across the drum from end to end thereof and spaced from each other circumferentially thereof and a longitudinal introduction slot communicating with each channel, the introduction slots being of less width than the channels and constituting constricted entrance throats, circular members at opposite ends of said drum, screws passed through said members and into threaded sockets in ends of the drum to detachably hold said members in place against ends of the drum, one circular member being formed with circumferentially spaced openings adjacent



its periphery registering with ends of said channels and slots registering with the introduction slots and opening through the periphery of the member, the circular members at the other end of the drum being formed with tuck molding recesses and introduction slots registering with the channels and slots for the drum, the tuck forming recesses being tapered outwardly and at their outer ends terminating in small openings at their centers for insertion of an element for shifting bunches longitudinally and discharging bunches through the openings of the first circular member.

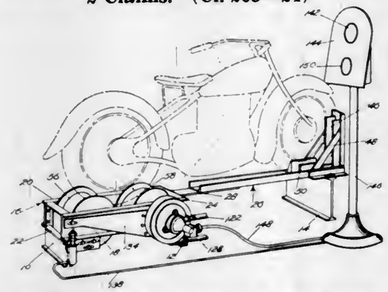
2,287,084

APPARATUS FOR TESTING MOTORCYCLES

Claude C. Bennett, South Bend, Ind., assignor to A. E. Feragen, Inc., Seattle, Wash., a corporation of Washington

Application November 3, 1939, Serial No. 302,777

2 Claims. (Cl. 265—24)



1. An apparatus for testing a motorcycle comprising a frame, a short shaft journaled on the frame, a relatively long shaft journaled on the frame in spaced relation to the short shaft having a part extended from one side of the frame, rollers secured to the shafts within the frame, an adjustable runway attached to the frame, a rack on the runway for supporting a wheel in a fixed position, a dynamometer including a sleeve, a rotor secured to the sleeve and a stator oscillatable on the sleeve, means for detachably securing the sleeve on the extension of the long shaft, an arm secured to the stator of the dynamometer arranged in parallel relation to the frame, a fluid pressure producing device supported on the frame for actuation by the arm, a measuring instrument connected to the device, and a tachometer connected to the shaft supporting the dynamometer.

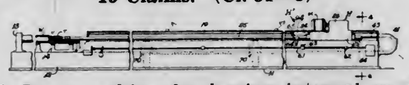
2,287,085

HONING MACHINE

Harry J. Caldwell, Rockford, Ill., assignor to Barnes Drill Co., Rockford, Ill., a corporation of Illinois

Application September 29, 1939, Serial No. 297,035

15 Claims. (Cl. 51—3)



1. In a machine for honing internal or external surfaces of elongated work pieces, the combination of a base consisting of a main section and an outboard section, a guideway extending generally parallel to the main base section, a pair of heads mounted for reciprocation on said guideway, power driven reciprocating means operatively connected with one of said heads, means on said one head for carrying an external honing tool, a rotatable spindle on the other head having a chuck adapted to hold either an elongated driver for an internal honing tool or one end of a work piece to be operated on by the external honing tool, means for coupling said heads together for reciprocation as a unit, means on said outboard base section for holding a work piece in position to be operated on by the internal honing tool, both of said heads being reciprocated to traverse the internal honing tool over the work, and a tail stock adapted to be detachably mounted on the main base section for cooperation with the chuck carried by the spindle of said other head for holding and rotating a work piece to be operated on by the external honing, said one head being reciprocated to traverse the tool over the work piece in such operation.

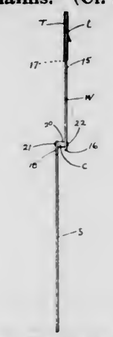
2,287,086

DRESS FORM FOR DISPLAY STANDS

Monte H. Cass, Los Angeles, Calif.

Application March 29, 1940, Serial No. 326,628

2 Claims. (Cl. 223—68)



1. A dress form having a waist-form member; suspension means for said member; and a skirt-form member depending from and at its upper end disposed rearwardly of the waist-form member, with the lower end of the latter extending below the upper end of the skirt-form member.

2,287,087

APPARATUS AND METHOD FOR SOLIDIFICATION OF MATERIALS

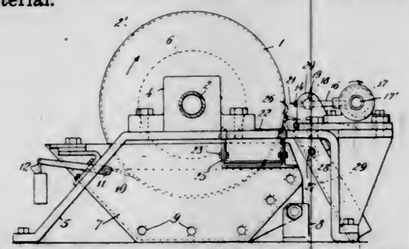
Ralph P. Clausen, Yeadon, Pa., and Harold F. Vieau, Liverpool, N. Y., assignors to The Solvay Process Company, New York, N. Y., a corporation of New York

Application May 3, 1940, Serial No. 333,122

14 Claims. (Cl. 18—26)

1. A method of forming solid lumps from mol-

ten material, involving the use of an internally cooled drum having a continuous circumferential forming groove on the peripheral surface of the drum, which method comprises rotating the drum, supplying molten material to the groove in the drum during its rotation at a point in the path of movement of the drum where the drum moves in an upward direction, in amount sufficient to substantially completely fill the groove, cooling the drum to effect solidification of the material within the groove, and cutting the solidified material within said groove into substantially uniform lumps during the rotation of the drum, at a point in the path of movement of the drum where the drum moves in a downward direction, the cutter moving radially towards the drum, and also during the cutting of said strip in the same direction and at least at the same rate of speed as the rate of speed of the strip of material.

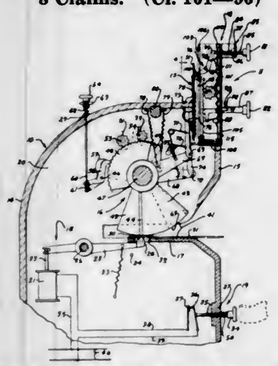


8. A machine for producing formed solid lumps from molten material which comprises an internally cooled rotatable drum having closely spaced continuous circumferential grooves, means comprising a channeled plate to supply a controlled stream of the material to the circumferential grooves at a point where it will partially solidify before the grooves reach their highest point, the plate being formed to prevent molten material from running past it down the drum, and cutting means to divide the material into substantially uniform lumps when it has become solidified, said cutting means being mounted at one end of a bar, driving means connected to the other end of the bar for moving it in a circular path about an axis parallel to the axis of the drum, a bearing fixed against horizontal and vertical movement through which bearing the bar is slidable, said bar, bearing and driving means being constructed and arranged so that the cutting means has a component of movement in the same direction and at least at the same speed as the strips of material while in cutting relation thereto.

2,287,088
PROCESS FOR PRODUCING MAGNESIUM ALCOHOLATES
Charles A. Cohen, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 28, 1939, Serial No. 311,322
2 Claims. (Cl. 260—632)

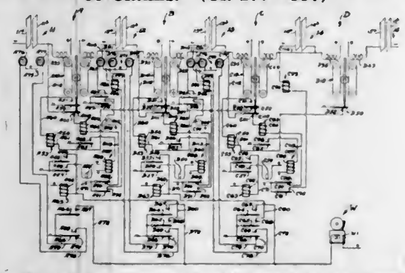
1. A process for the production of magnesium alcoholate which consists in activating magnesium metal with iodine and mercuric chloride, adding an excess of absolutely anhydrous alcohol together with sufficient granular aluminum to maintain the reaction in an anhydrous condition, refluxing the mixture until the reaction is complete, separating metallic mercury from the reaction mixture, filtering to remove the excess alcohol together with the reaction products of iodine and aluminum and recovering the magnesium alcoholate.

2,287,089
PIECE-WORK RECORDING MACHINE
Benjamin Cooper, New York, N. Y.
Application October 12, 1938, Serial No. 234,613
8 Claims. (Cl. 101—96)



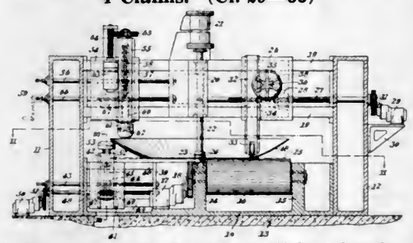
1. In a machine of the character described, a frame, a horizontal shaft on said frame, a type carrying member mounted for rotation about the axis of said shaft, a holder slidably mounted on said frame for vertical movement, said holder being provided with a ratchet portion, and a member pivoted to said type carrying member and adapted to engage one of the teeth of said ratchet portion, means for slidably moving the holder downwardly, spring means to move the holder upwardly, means to disengage said pivoted member from said ratchet portion, when said holder is in initial position, a second type carrying member mounted for rotation about the axis of said shaft, means to rotate said second type carrier member, and means to print the data of said positioned type carrying members.

2,287,090
TRAFFIC CONTROL SYSTEM
Benjamin Cooper, Jersey City, N. J.
Application February 21, 1940, Serial No. 320,020
36 Claims. (Cl. 177—337)



1. In an automatic traffic system, a plurality of vehicle actuated switches disposed at spaced intervals along the lane of a highway, dividing said highway into a plurality of sections, an electrically operated warning device, and means controlled by said vehicle actuated switches, and including a circuit for said device and said switches, to energize said warning device when a vehicle traversing the highway passes the entering switch of any section and remains within said section longer than a predetermined period of time, during which period no vehicles cross the exit switch of said section, and all vehicles which have crossed the exit switch of said section into the succeeding section, have left said succeeding section by passing over the exit switch thereof prior to the beginning of said period, whereby said device indicates that traffic through said first section is obstructed.

2,287,091
METHOD AND APPARATUS FOR MAKING DISHED HEADS
Charles B. Cushwa and Thomas C. Kane, Youngstown, Ohio
Application April 11, 1940, Serial No. 329,122
4 Claims. (Cl. 29—33)



1. In a method of making dished heads, the steps including providing a substantially flat plate, thinning the plate along a generally circular path spaced inwardly of the edge of the plate, spreading the material in said path radially, thereby causing the material adjacent said edge to dish out of the general plane of the original plate, and thereafter bending up the edge of the plate.

3. Apparatus for dishing heads comprising means securing a blank in position for rotation about a substantially central point, a supporting roll disposed radially of the blank, the periphery of the roll being in contact with the blank, a working roll adapted to engage the side of the blank opposite that which engages the supporting roll, and auxiliary working rolls movable toward and from said blank and radially thereof, effective to turn up a flange around said blank.

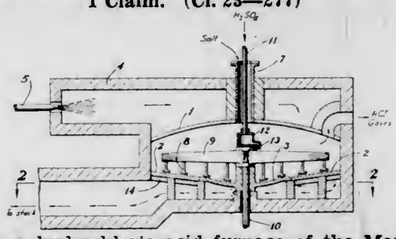
2,287,092
SYNTHESIS OF HYDROCARBONS
Franz Duftschmid, Heidelberg, and Eduard Linckh and Fritz Winkler, Ludwigshafen-on-the-Rhine, Germany, assignors to Standard Catalytic Company, a corporation of Delaware
Application May 20, 1939, Serial No. 274,736
In Germany May 27, 1938
4 Claims. (Cl. 260—449)

1. A process for the catalytic conversion of carbon monoxide and hydrogen into hydrocarbons containing more than one carbon atom in the molecule while contained in a hydrocarbon oil which comprises passing the said hydrocarbon oil along the catalyst chamber in indirect heat exchange relation with the reaction participants introduced into and passing through the catalyst chamber, and thereupon passing the said oil through the catalyst chamber in the same direction as the reaction participants.

2,287,093
MATCH
Carleton Ellis, Montclair, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 9, 1939, Serial No. 308,391
3 Claims. (Cl. 52—25)

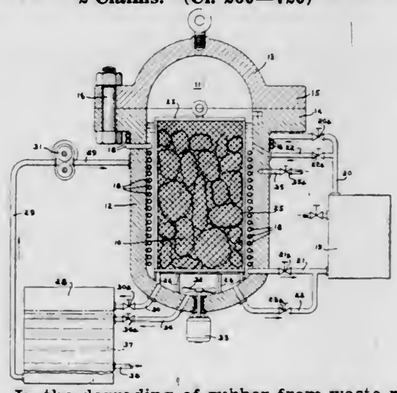
1. A friction-ignitible match comprising a match head consisting of a friction-ignitible composition attached to a combustible match body impregnated with a nitroparaffin containing at least one nitro group in which the nitrogen atom is directly attached to a carbon atom, the proportion of said nitro compound on said body being sufficient to transmit the flame to said match body from said match head when ignited.

2,287,094
MUFFLE FURNACE
Fred Farmer and James F. Garrett, Cranford, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application March 15, 1940, Serial No. 324,116
1 Claim. (Cl. 23—277)



In a hydrochloric acid furnace of the Mannheim type the combination comprising a muffle having a circular bottom composed of a circular pot and an annular calcining hearth, means for directing hot combustion gases over the top of the muffle and under the bottom thereof, means for insulating the hearth from said hot combustion gases and means for concentrating said hot combustion gases under said pot.

2,287,095
PROCESS OF DEGRADING RUBBER
Albert G. Federman, Chester, Pa.
Application October 28, 1939, Serial No. 301,788
2 Claims. (Cl. 260—720)

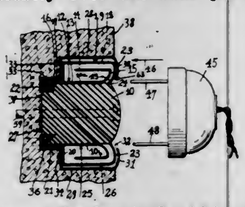


1. In the degrading of rubber from waste rubber products, the step of subjecting the rubber product to a temperature of from about 210° C. to about 245° C. by the application of heated aqueous vapor directly thereto.

2,287,096
GROUP CONTINUOUS ELECTRIC OUTLET
Herman Friend, New York, N. Y.
Application August 1, 1940, Serial No. 349,040
10 Claims. (Cl. 173—334.1)

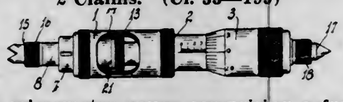
1. In a continuous group electric outlet, having

a central longitudinal insulating bar and an elongated plate-like electric conductor resiliently yieldingly placed against each of the two sides of said central bar, a plate-like elongated insulator cover placed over each of said conductors covering their front, rear, and their broad outer sides, the rear portions of the conductors and of the insulator covers closely fitting against the rear portions of said outer sides of the central insulator bar, and an elongated housing of sheet material for the device, the front part of the side walls thereof being spaced apart from said insulator covers, and the rear portions of them being set closely over the rear portions of the



insulator covers, the front of said insulator covers and said housing exposing the front of said insulator bar, and the rear wall of said housing snugly fitting against the back of said central insulator bar whereby said insulator covers and said conductors are held in place at the sides of said insulator bar, means being provided between the sides of said insulator bar and the front of said insulator covers and of said housing, whereby the prongs of an electric plug may be inserted between the respective sides of said insulator bar and the conductors on them, said conductors pressing against said prongs by resilient action.

2,287,097
MICROMETER GAUGE FOR INTERNAL THREADS
Tom C. Graham, Long Beach, Calif.
Application January 9, 1940, Serial No. 313,050
2 Claims. (Cl. 33—199)



1. A micrometer gauge comprising a frame, a micrometer screw mounted on one end of the frame, an adjusting sleeve threaded into the other end of the frame, a spindle rotatably and slidably mounted in the adjusting sleeve, spring means bearing against the inner end of the spindle whereby the spindle is yieldably pressed outwardly, said spring means including a coil spring, said spindle having a counter-bore to receive the spring, a cup mounted in the frame, said spring extending into the cup and a tip on the end of the spring and bearing against the cup.

2,287,098
AUTOMATIC RECORD CHANGING APPARATUS
Harvey C. Habegger, Monroe, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware
Application September 29, 1941, Serial No. 412,707
17 Claims. (Cl. 274—10)

15. A record-changing apparatus comprising a tubular spindle, a pair of movable members on said spindle positioned diametrically opposite thereto for supporting a stack of records by engaging edge portions at the centering aperture of the lower-most supported record, means for engaging the top-supported record for balancing the stack of records in supported position, a reduced-portion on said spindle in the plane of the second lower-most supported record, movable means for moving the second lower-most supported record into supporting position with

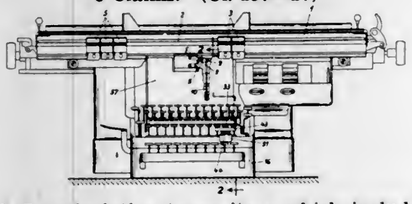


said reduced-portion, cam means rotatable in said spindle for successively moving said movable means and permitting said pair of movable members to move out of supporting position whereby the lower-most supported record is released from its supported position, and means for driving said cam means.

2,287,099
ARTIFICIAL WOOL
Vernal R. Hardy and John B. Miles, Jr., Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 7, 1938, Serial No. 183,922
29 Claims. (Cl. 18—54)

11. A process for producing a wool-like product which comprises spinning a filament from a molten synthetic fiber-forming polyamide, wetting the filament with a mild swelling agent, partially cold drawing the wet filament, releasing tension thereon, and drying the relaxed filament to remove the swelling agent.

2,287,100
CALCULATING TYPING MACHINE WITH A MOTOR DRIVE
Arthur Hediger, Zurich, Switzerland
Application March 17, 1938, Serial No. 196,577
In Germany March 20, 1937
8 Claims. (Cl. 197—17)



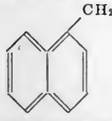
1. In calculating typewriters, which include a motor driven shaft, a carriage, a bar movable with the carriage, a zero type lever, a zero key, a cam on said shaft for actuating said type lever, latching means for connecting said cam and shaft to rotate together and means operable by said zero key for controlling said latching means to connect said cam and shaft to rotate together; the combination with the aforesaid structure of means cooperating with said bar for maintaining said controlling means in its key-operated position and thereby effecting a continued action of said zero type lever after the zero key has been initially depressed and so long as said bar is in a predetermined position.

2,287,101
MEANS AND METHOD FOR ANALYSIS
Leo Horvitz, Houston, Tex., assignor to E. E. Rosaire, Houston, Tex.
Application January 8, 1938, Serial No. 183,960
8 Claims. (Cl. 23—232)

4. In a method of soil gas analysis for minute traces of hydrocarbons heavier than methane present together with methane in soil gas, the steps which comprise condensing all of said heavier hydrocarbons, without condensing any substantial amount of the methane, at a temperature of approximately —196° C., quantitatively removing any residual methane from said condensed hydrocarbons in a single operation, while maintaining them at said temperature, without removing any substantial amount of said heavier hydrocarbons by reducing the pressure on the condensed hydrocarbons to a pressure not substantially above 10^{-4} mm. of mercury, and determining the amount of the residual heavier hydrocarbons.

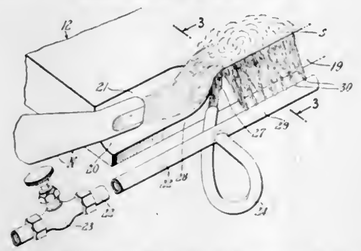
2,287,102
PREPARATION FOR PROMOTING THE GROWTH OF PLANTS
Otto Isler, Basel, Switzerland, assignor to Hoffmann-La Roche, Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application November 14, 1938, Serial No. 240,379. In Switzerland November 26, 1937
8 Claims. (Cl. 71—2)

1. A preparation in form for administration to plants for promoting the growth thereof comprising a carrier material having distributed therein a small proportion of active components consisting of a compound of the general formula



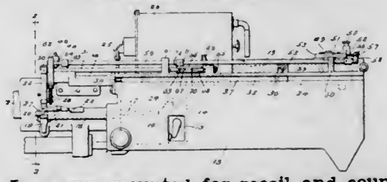
wherein X is selected from the group consisting of hydrogen and alkali metal.

2,287,103
METHOD OF AND APPARATUS FOR FLAME MACHINING
Everett P. Jones, Elizabeth, N. J., assignor to The Linde Air Products Company, a corporation of Ohio
Application April 3, 1940, Serial No. 327,587
8 Claims. (Cl. 148—9)



3. A method of flame machining in which metal at an ignition temperature is thermochemically removed from the vertical surface of a metallic body to produce a J-groove therein, which comprises applying against such metal an oxidizing gas stream directed substantially toward the successive portions of metal to be removed; directing a stream of gas upwardly against said surface to direct the flow of molten slag from said groove in an upward direction; and moving both said oxidizing gas stream and said slag directing stream relatively along successive portions of said surface.

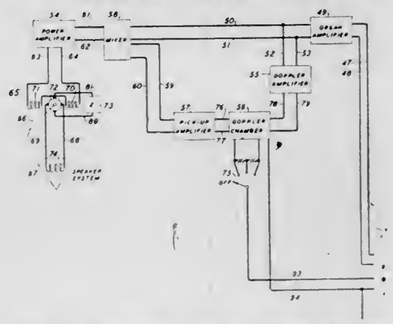
2,287,104
GUN LOCKING MECHANISM
Bryan P. Joyce, East Orange, N. J., assignor to American Armament Corporation, New York, N. Y., a corporation of Delaware
Application August 9, 1941, Serial No. 406,179
10 Claims. (Cl. 89—1)



1. In a gun mounted for recoil and counter-recoil upon a cradle, said cradle being provided with a loading tray for said gun and with actuating mechanism for said tray operated by movement of the gun on the cradle; movable locking means operatively associated with said loading tray for locking it against movement when desired, additional movable means operatively associated with said tray-actuating mechanism for preventing operation thereof while said tray is locked by said locking means, and means operatively connecting the two aforesaid means for joint movement to effective position and for joint movement to ineffective position.

2. In a gun mounted for recoil and counter-recoil upon a cradle, said cradle being provided with a loading tray for said gun; movable locking means operatively associated with said tray for locking it against movement when desired, additional movable locking means operatively associated with the firing mechanism of the gun for locking it against operation while said tray is locked by the first mentioned locking means, and means operatively connecting the two aforesaid locking means for joint movement to effective position and for joint movement to ineffective position.

2,287,105
ELECTRONIC ORGAN
Walter F. Kannenberg, Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 7, 1939, Serial No. 308,037
13 Claims. (Cl. 84—1.17)

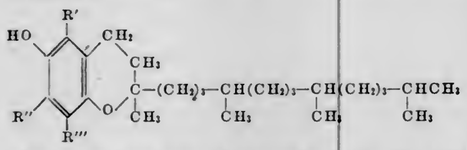


1. In an electronic organ having an output system and a plurality of electric generators for producing a musical series of fundamental and harmonic frequencies, a means for confining each harmonic order to a separate harmonic order circuit comprising for each harmonic order a plurality of normally balanced keying bridge networks, one for each generator the frequency

of which appears in that harmonic order, an input and an output circuit for each of said bridges, means permanently coupling the generators to their respective bridge input circuits, means permanently coupling the bridge output circuits together to form the said separate harmonic order circuit and a quality control means for controlling the relative harmonic energy delivered from said separate harmonic order circuit to the output system.

2,287,106
HOMOLOGUES OF DL-TOCOPHEROLS
Paul Karrer, Zurich, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application February 19, 1940, Serial No. 319,767. In Switzerland March 8, 1939
5 Claims. (Cl. 260—333)

1. A homologue of the dl-tocopherols of the formula



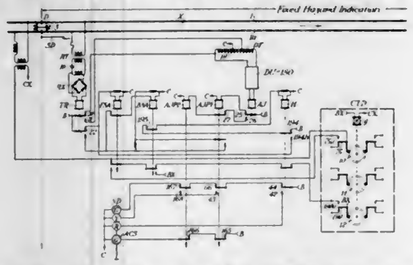
wherein at least one of the radicals R', R'', R''' is an ethyl group, R' and R'' are selected from the group consisting of a methyl and an ethyl group, and R''' is selected from the group consisting of hydrogen, a methyl and an ethyl group.

2,287,107
DELTA^{2,6}-PHYTADIENIC ACID AND PROCESS FOR THE MANUFACTURE OF SAME
Paul Karrer, Zurich, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application September 5, 1941, Serial No. 409,739. In Switzerland July 11, 1940
3 Claims. (Cl. 260—413)

3. Process for the manufacture of delta^{2,6}-phytadienic acid, comprising reacting unsaturated methyl-[4,8,12-trimethyl-tridecene-(3)-yl]-ketone with bromo-acetic ester, replacing the hydroxyl group in the resulting 3,7,11,15-tetramethyl-3-hydroxy-hexadecene-(6)-acid ester by a bromo-group, and causing alcoholic potassium hydroxide to act on the 3,7,11,15-tetramethyl-3-bromo-hexadecene-(6)-acid ester obtained.

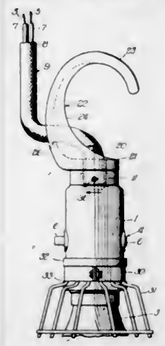
2,287,108
RAILWAY TRAFFIC CONTROLLING APPARATUS
Ralph R. Kemmerer, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Original application May 11, 1940, Serial No. 334,610. Divided and this application January 7, 1941, Serial No. 373,444
12 Claims. (Cl. 246—63)

1. In combination, a section of railway track, means for supplying the rails of said section with trackway energy cyclically coded at first one and then another of two different rates of coding alternately, means responsive to traffic conditions in a selected portion of said section for supplying the rails of said section with trackway energy coded at but one of said two different rates of coding, a code responsive relay operated by energy received from the trackway, decoding means controlled by said code responsive relay and operative to detect each of said two different rates of coding, other means controlled by said code responsive relay for detecting operation of said relay by energy cyclically coded at said first one



and then the other of said two different rates of coding, and railway traffic controlling apparatus selectively controlled by said decoding means and by said other means in accordance with the rate at which energy received from the trackway is coded.

2,287,109
PORTABLE LAMP
Francis C. Kollath, Chicago, Ill.
Application July 1, 1940, Serial No. 343,375
1 Claim. (Cl. 240—54)



A portable lamp of the character described comprising a hollow casing member of insulating material and of substantially the same transverse cross-sectional area throughout its length, a contact shell providing a socket for detachably receiving a lamp bulb base in said casing member, said casing member being the outer protective barrel for said contact shell of the lamp bulb socket, a separate rigid member at one end of said casing member, hollow nipple means for attaching said rigid member to said casing member substantially concentric with the longitudinal axis of the casing member, conductors extending through said hollow nipple means for connecting said lamp socket to a source of power, said rigid member having a portion adjacent the casing member forming substantially a continuation of the outer surface of the casing member and in cooperation with the casing member providing a handle for said lamp, said rigid member having a configuration substantially that of a portion of an elongated ellipse and being of relatively large cross-sectional area, the major axis of said rigid member extending generally parallel to said longitudinal axis of the casing member, said rigid member together with said casing member being of such length and shape as to be readily grasped

in the palm of a hand, and said rigid member providing a suspending hook portion at the end of said substantially eliptical portion.

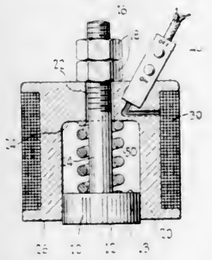
2,287,110
ART OF MANUFACTURING LUBRICATING OILS
Eugene Lieber, Linden, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 29, 1938, Serial No. 248,234
7 Claims. (Cl. 252—52)

1. A lubricating oil comprising a waxy hydrocarbon oil and a condensation product of a ketone having carbocyclic and open chain aliphatic radicals of at least 6 carbon atoms with a short chain dihalo aliphatic hydrocarbon of 1 to 5 carbon atoms.

2,287,111
TREATMENT OF STEEL SURFACES
John P. Loud, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application August 31, 1940, Serial No. 355,041
10 Claims. (Cl. 148—8)

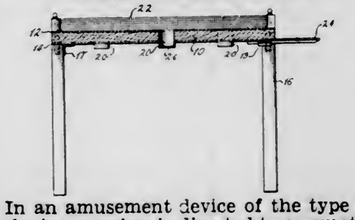
1. A process for treating carburized alloyed steel surfaces, which comprises subjecting said steel surfaces to the action of steam, treating the surfaces with a relatively dilute aqueous solution of an oxidizing inorganic acid selected from the group consisting of nitric acid and chromic acid and a hydrohalide acid, and treating said surfaces again with a more concentrated aqueous solution of such oxidizing inorganic acid.

2,287,112
MAGNETIC CLAMP
Jacques W. Lourié, New York, N. Y.
Application July 22, 1941, Serial No. 403,518
5 Claims. (Cl. 219—8)



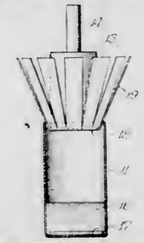
3. In an apparatus for arc welding, a magnetic clamp for establishing pressure contact between the ground lead and a metallic body to be welded, comprising a terminal block in electrical contact with the ground lead, an annular magnetizable core encircling said terminal block and resiliently mounted thereon, a magnetizing coil wound on said core, said coil being fed by an independent current source, and a switch for controlling the current fed to said coil, said terminal block and said annular core being so arranged that the contact surface of said terminal block protrudes slightly beyond the contact surface of said annular core when no current is passing through the said magnetizable coil.

2,287,113
AMUSEMENT DEVICE
Andrew J. Markey, San Antonio, Tex.
Application May 5, 1941, Serial No. 391,966
2 Claims. (Cl. 273—105)



1. In an amusement device of the type wherein a playing member is directed to a remotely positioned target, a table top member formed of a sound absorbing material having a plurality of openings therein which constitute said target, cup-like members positioned in said openings for holding the playing members after they enter the said openings, and a sound absorbing material forming the bottom of the said cup-like members whereby upon inverting the said cup-like members in the openings aforesaid the said sound absorbing material provided at the bottom of the cup-like members will form with the sound absorbing material of the table top member a continuous table top of sound absorbing material.

2,287,114
GALVANIC CELL AND METHOD OF MAKING SAME
Edgar J. McEachron, Wausau, Wis., assignor to Marathon Battery Company, Wausau, Wis., a corporation of Wisconsin
Application December 9, 1940, Serial No. 369,189
7 Claims. (Cl. 136—132)

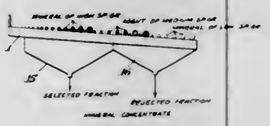


1. An electrical cell of the bag type, comprising a zinc cup, a wrapped core of compressed depolarizing mixture and an embedded carbon pencil in said cup with a space between the wrapped core and the sides of the cup, a gelatinized electrolyte in said space, the wrapper for said core being of porous, reasonably stiff sheet material comprising an imperforate portion extending over the base of the core and separate strips extending up the sides of the core from the imperforate base portion and covering at least the major portion of the sides of the core.

2,287,115
PROCESS OF CONCENTRATING ORES
Sibley B. McCluskey, New York, N. Y.
Application March 14, 1940, Serial No. 323,851
15 Claims. (Cl. 209—441)

1. The process of concentrating ore to produce a plurality of fractions of different specific gravities which comprises mixing the ore in a finely divided state with a finely divided artificial middling of homogeneous, granular mate-

rial characterized by having a specific gravity intermediate the specific gravities of said fractions, separating on a transversely inclined, longitudinally reciprocated plane surface the mixture thus produced to produce a thin sur-



face layer on said plane surface comprising zones of material each lying on said plane surface and containing said fractions respectively and separated edgewise by said middling, and collecting separately from said surface the material of said zones.

2,287,116

ART OF INCORPORATING DRYING METALS IN PAINTS, VARNISHES, LINOLEUMS, INKS, ETC.

Arthur Minich, Elizabeth, N. J., assignor to Nuodex Products Co., Inc., Elizabeth, N. J., a corporation of New York

No Drawing. Application March 26, 1940, Serial No. 326,006
4 Claims. (Cl. 106—310)

1. The process of producing a solution of a hydroxy salt of a drying metal in an oxidizable film-forming material of the class consisting of drying oils and oil varnishes, which comprises producing an aqueous solution containing an alkali metal salt of a water insoluble non-volatile, non-aromatic organic acid capable of rendering the hydroxy salt of a predetermined drying metal soluble in said film-forming vehicle at a temperature above the reaction point of said hydroxy metal salt and said vehicle and also containing free hydroxide of the alkali metal, separately producing an aqueous solution of a water-soluble inorganic salt of said drying metal in sufficient quantity to react with the alkali salt of said acid and also the free hydroxide of said alkali metal, then mixing the said solutions to form a hydroxy metal salt of the drying metal, isolating the said hydroxy metal salt, adding a minor quantity of said salt to such an oil or varnish material, and thereafter heating the mixture to a sufficiently high temperature to effect complete chemical reaction and solution between the said hydroxy salt and said oil or varnish material.

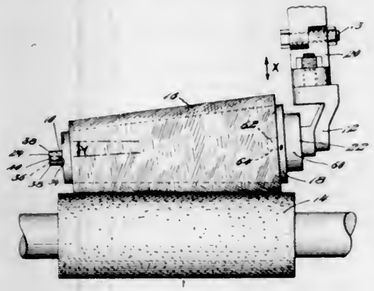
2,287,117

WINDING SPINDLE

Frank Montalto, Bradford, R. I., assignor of one-third to Michael Vacca, Bradford, R. I.

Application April 11, 1939, Serial No. 267,273
2 Claims. (Cl. 242—130)

1. In a take-up or let-off winding spindle for a yarn package having a hollow winding core, a spindle blade having an annular base for abutment of one end of said hollow winding core, said spindle blade having a diametrically slotted outer end having a bore projecting axially of said end for a distance from the inner end of said diametric slot, a helical spring contained within said bore, a keeper member having a cylindrical stem contained within said bore with the inner end thereof abutting said spring and a head having a flat outer surface extending perpendicular to said stem within said diametric slot, a pivot pin extending diametrically across said diametric slot and a flat oblong latch member having parallel edges and a flat end surface substantially perpendicular to said edges and a slot through said latch member containing said pivot pin and extending from substantially the center of said latch member toward said flat perpendicular end of said latch member and with an enlarged rest portion at the center end of said slot in said latch member whereby said latch member may be pivoted from an axial position aligned with said spindle for loading or unloading a hollow core on said spindle with the sub-



stantially flat perpendicular end surface of said latch member abutting the flat outer surface of said keeper member, to a radial position with said pin in the outer end of said slot in said latch member and said latch member may be moved radially from said radial position to a diametric position with said pin in the enlarged rest portion of said slot with each end of said latch member abutting the outer end of said core to retain said core on said spindle with the outer flat surface of said keeper member abutting the then bottom edge surface of said latch-member in said radial and diametric positions.

2,287,118

TREATING HYDROCARBONS

August Y. Mottlau, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application April 29, 1938, Serial No. 205,000
11 Claims. (Cl. 196—13)

1. Process for removing organic sulfur compounds of the mercaptan type from a mineral oil boiling in the range between 100 and 700° F. comprising treating the same at atmospheric pressure and at a temperature in the range from 60 to 85° F. with an aqueous solution of an aliphatic amino alcohol.

2,287,119

PROCESS FOR PURIFYING HYDROCARBON PRODUCTS

Albert J. Mueller, Sarnia, Ontario, Canada, assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application February 2, 1939, Serial No. 254,149
9 Claims. (Cl. 196—147)

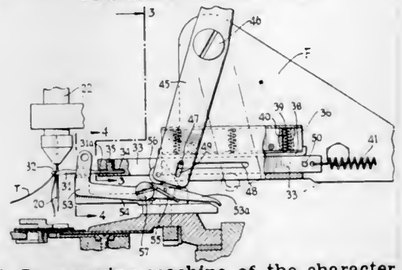
1. The process of removing soluble impurities from a hydrocarbon product which comprises bringing the hydrocarbon product into contact with a solid adsorbent for such impurities, said adsorbent being wetted with a substantially pure low molecular weight aliphatic alcohol.

2,287,120

TIE STITCHING MACHINE

Rudolf Naftali and Valentine Naftali, Pelham Manor, and Henry Naftali, New York, N. Y., assignors to American Machine & Foundry Company, New York, N. Y., a corporation of New Jersey

Original application March 11, 1937, Serial No. 130,252. Divided and this application August 11, 1939, Serial No. 289,523
14 Claims. (Cl. 112—225)



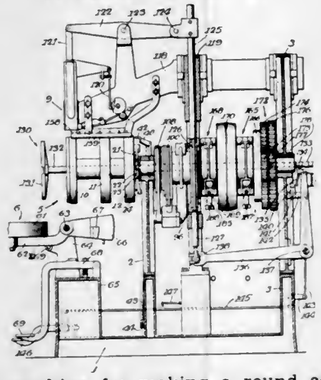
1. In a sewing machine of the character described, the combination of a needle, means for causing said needle to reciprocate in a straight line path, a needle threading mechanism, said mechanism comprising a member provided with a wedge shaped entering portion and a hook, both adapted to pass through the eye of the needle, means for moving said member toward and from said needle in a direction substantially at right angles to the direction of reciprocation of said needle, and means to permit said member to be moved parallel to the direction of travel of said needle whereby said member will automatically adjust itself to variations in alignment of the eye of the needle.

2,287,121

MACHINERY FOR MAKING CONTAINERS

Walter F. Newhouse, Benton Harbor, Mich.

Continuation of application Serial No. 123,960, February 4, 1937. This application September 16, 1939, Serial No. 295,172
15 Claims. (Cl. 147—47)



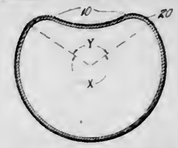
1. A machine for making a round container having a bottom and side wall, comprising, in combination, a hollow shaft, a rotary power driven member for rotating said shaft, a container form loosely mounted on said shaft, means for holding a container on said form as it is being made, a first stapling mechanism arranged to drive staples into the side wall and bottom of the container during rotation of the form, means coupling said form to said shaft to cause said rotation, means operated by said shaft for operating said first stapling mechanism, said form having a section, means mounting said section for movement axially relative to the main portion of the form to engage the stapled bottom of a container and move the container axially of the form and finally strip the same therefrom, a rod extending through said hollow shaft and secured to said movable section of the form to thereby move said section, a second stapling mechanism arranged to drive staples into the side wall of the container during axial movement of the form, means operated by said rotary power member for actuating said second stapling mechanism, and means for simultaneously moving said rod axially of said shaft.

2,287,122

PROCESS OF PRODUCING ENDLESS FORAMINOUS SHEET-METAL BANDS

Edward O. Norris, Westport, Conn., assignor to Edward O. Norris, Inc., New York, N. Y., a corporation of New York

Application August 3, 1940, Serial No. 350,274
7 Claims. (Cl. 204—11)



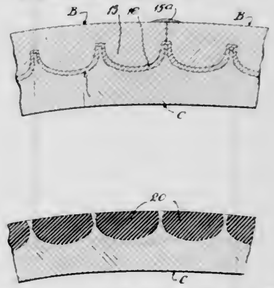
1. The process of producing seamless and jointless endless bands of sheet-metal, which comprises electroforming the sheet on a matrix having an exterior endless deposit-receiving surface a part of which surface comprises a re-entrant area extending the entire width of said surface, said re-entrant area merging into the remaining area of said surface gradually and on a continuous curve so that no sharp or abrupt edges are presented, then detaching the deposit from the re-entrant area and then detaching the deposit from the remaining portion of the surface and slipping the electroformed deposit from the matrix.

2,287,123

METHOD OF PRODUCING MATRICES FOR THE ELECTROFORMING OF FORAMINOUS SHEETS

Edward O. Norris, Westport, Conn., assignor to Edward O. Norris, Inc., New York, N. Y., a corporation of New York

Original application October 6, 1939, Serial No. 298,216. Divided and this application January 21, 1941, Serial No. 375,156
3 Claims. (Cl. 204—11)



3. In the method of producing a matrix for

the electroforming of foraminous sheet with very narrow lands, the steps which comprise producing a metal plate from the surface of which a multitude of protuberances having electrically conductive surfaces project, building out the said protuberances laterally by electrodeposition until the added electrodeposited material covers the entire surface of the plate including the surfaces of the protuberances and until the said added material partially overhangs and narrows the valleys that separate the protuberances, electroforming on the said plate an obverse of the built-up plate, and then removing the built-up plate from the electroformed plate, and filling the pits in the electroformed plate which are the obverse of the protuberances with material passive to electrodeposition.

2,287,124

PROCESS OF DYEING

Henry Charles Olpin and John Wright, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application May 14, 1940, Serial No. 335,145. In Great Britain June 7, 1939

4 Claims. (Cl. 8—50)

1. Process for the coloration of textile materials of an organic derivative of cellulose which comprises applying thereto 2:6-dichlor-4-nitro-2'-chlor-4'-amino azobenzene.

2,287,125

OXIDATION OF LOW MOLECULAR WEIGHT HYDROCARBONS IN LIQUID PHASE AND CATALYST THEREFOR

John J. Owen and Paul T. Parker, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

Application October 12, 1938, Serial No. 234,540

8 Claims. (Cl. 260—451)

1. Process for preparing oxy-organic compounds comprising bringing a gas containing free oxygen into contact with a low molecular weight aliphatic hydrocarbon at a reaction temperature below the critical temperature of said hydrocarbon and under sufficient pressure to maintain it in liquid phase, in the presence of an oxidation catalyst comprising a salt of a fatty acid of less than about 6 carbon atoms per molecule.

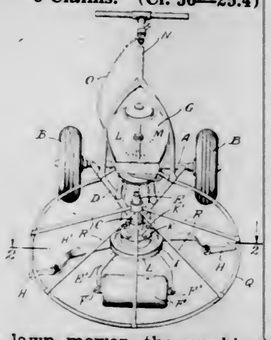
2,287,126

LAWN MOWER

Heza H. Packwood, Reserve, La.

Application September 13, 1941, Serial No. 410,707

5 Claims. (Cl. 56—25.4)



1. In a lawn mower, the combination with a frame, of supporting means therefor including a rolling, ground engaging element, means connected to said frame to which said element is pivotally connected for rotative movement about a horizontal axis, a cutter comprising an upper section, a lower cutting blade section, and a depending intermediate section extending between and rigidly connected to each of the two first mentioned sections, and means pivotally connecting said upper cutter section to said frame for rotative movement of the cutter about a vertical axis, said cutter and ground engaging element being so relatively formed and disposed that in the rotative movement of the cutter said upper section moves along a path extending over said element and in close proximity to the upper side of the latter, and said depending cutter portion moves along a path surrounding an upper portion of said element and said cutter blade section moves along a path extending radially outwardly from the path of said depending portion.

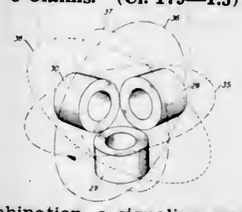
2,287,127

SIGNALING SECRECY SYSTEM

George M. Phillips, North Bergen, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 28, 1940, Serial No. 342,889

8 Claims. (Cl. 179—1.5)



1. In combination, a signaling apparatus producing a signaling magnetic field, and means to superpose a plurality of rotating noise magnetic fields on said signaling magnetic field to defeat unauthorized detection of the signaling magnetic field, said means comprising inductances differently oriented with respect to each other to cause the rotating noise field to cover all space in the vicinity of and surrounding said apparatus, and means to energize said inductances.

2,287,128

PROCESS FOR PURIFYING FATTY ACIDS

Louis E. Pirkle, Baton Rouge, La., assignor to Jasco, Incorporated, a corporation of Louisiana

Application July 23, 1938, Serial No. 220,912

5 Claims. (Cl. 260—452)

1. Process for the purification of soaps of crude synthetic fatty acids prepared by oxidation of hydrocarbons comprising heating an aqueous solution of said crude soaps containing at least 60% of water, under its own vapor pressure to a temperature of about 275 to 325° C. and then subjecting the heated solution to a flash vaporization, whereupon a substantial portion of the water contained therein is vaporized together with impurities and there is recovered as the flash vaporization residue a concentrated aqueous solution of the purified soaps.

2,287,129

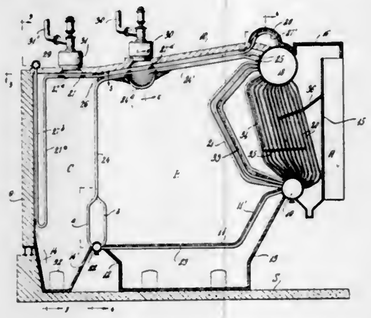
STEAM GENERATOR

John V. Pyle, Pleasantville, N. Y., assignor to Kennedy-Van Saun Mfg. & Eng. Corporation, New York, N. Y., a corporation of Delaware

Application June 14, 1939, Serial No. 279,004

11 Claims. (Cl. 122—478)

1. In a steam generating unit, a two drum boiler comprising upper and lower drums and vertically disposed tubes connecting said drums, a furnace defined by front, side, top and bottom walls and open at the rear to a side of said drum connecting tubes, a row of tubes arranged in contiguous sidewise relation transversely of the furnace connected at one end to the upper drum, said tubes extending along the top of the furnace for a portion of the length thereof and then vertically downward to the bottom of the furnace with a portion of successive tubes adjacent the lower ends offset laterally in opposite directions



and connected at said end to the lower drum, said tubes separating the furnace into a boiler combustion chamber at one side of said tubes and an auxiliary combustion chamber between said tubes and the front wall of the furnace connected in communication with the boiler combustion chamber through the spaces between offset portions of the tubes of the row of tubes, a steam superheater connected to the steam space of the upper drum disposed in the auxiliary combustion chamber, and individual fuel burner means opening to the top of each of said chambers.

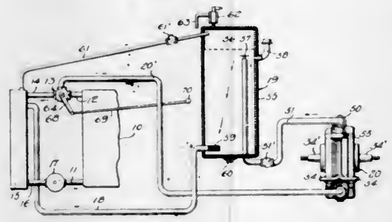
2,287,130

HYDRODYNAMIC BRAKE MECHANISM

Harold W. Ramey, Parkersburg, W. Va., assignor to The Parkersburg Rig & Reel Company, Parkersburg, W. Va., a corporation of West Virginia

Application February 26, 1941, Serial No. 380,726

30 Claims. (Cl. 188—90)



1. A braking system for a motor vehicle provided with a cooling fluid circulating system including a circulating pump, comprising a fluid friction brake including rotor and stator elements, a fluid inlet for the brake connected to said circulating system at such a point as to be subject to the pressure developed by the circulating pump, and means for varying the effective braking action of said brake without disturbing the circulation of cooling fluid through the engine.

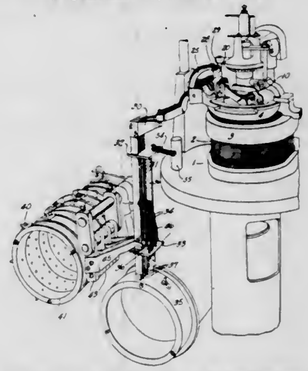
2,287,131

COMBINATION CUTTER AND BINDER FOR CIRCULAR KNITTING MACHINES

Byron C. Redeen, Milwaukee, Wis., assignor to Phoenix Hosiery Company, Milwaukee, Wis., a corporation of Wisconsin

Application March 5, 1941, Serial No. 381,825

9 Claims. (Cl. 66—140)



1. A cutting and binding attachment for circular knitting machines having knitting needles and a plurality of yarn fingers for selectively throwing any one of a plurality of yarns into and out of the field of action of the needles and comprising an individual cutter and binder for each yarn, said individual cutters and binders being grouped together in cooperative relation to the knitting field adjacent the point where the yarn fingers throw the yarn into and out of the field of action of the needles, each cutter and binder including a combined movable clamping and cutting blade, spring means biasing said movable blades to cutting position, an operating lever for each movable blade, each operating lever and its movable blade having interengageable camming surfaces cooperable when the lever is swung to control the position of the blade, and cam means for selectively swinging said levers.

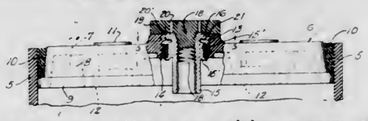
2,287,132

STORAGE BATTERY

John T. Redmon, Memphis, Tenn., assignor to Globe-Union Inc., Milwaukee, Wis., a corporation of Delaware

Application December 29, 1939, Serial No. 311,492

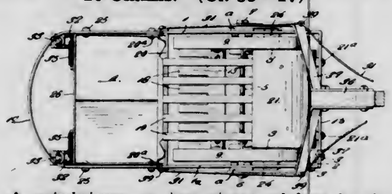
3 Claims. (Cl. 136—178)



3. A storage battery comprising a case, an internally threaded opening for said case, a filling tube and vent valve assembly fitted into said opening as a unit and comprising, an annular member having external threads interthreaded with said opening, said member having a vent extending vertically from the top to bottom thereof, a filling tube slidably fitted in said member and having its lower end extending substantially below the opening in the case, said tube having a radial flange at its upper end extending over the top opening of said vent and adapted to seat upon and close said vent when said tube is urged downwardly by gravity, means acting between said tube and said member to resist

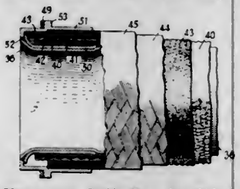
relative rotation thereof while permitting relative axial movement, and a cap having a vent hole therein for closing said opening, said cap and said tube having interengaging screw means to lift said tube and open the vent in said member as said cap is brought into closing contact with said opening.

2,287,133
TOY
Otis F. Reiter, Baltimore, Md., assignor to Fastpic Corporation, Baltimore, Md., a corporation of Maryland
Application December 31, 1940, Serial No. 372,658
10 Claims. (Cl. 55—17)



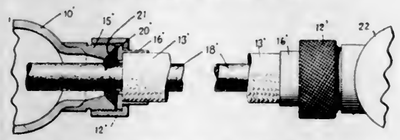
1. A miniature or toy stone picker having a main frame member consisting of a metal strip in one piece set up on edge with side bars, a front and a rear cross bar, the ends of said strip metal member being connected together, a cross bolt or shaft mounted on said side bars and extending laterally beyond said side bars, carrying wheels mounted on said shaft at points within said main frame and spaced from said side bars, stone lifting arms carried by said wheels, said lifting arms being spaced apart, and conveyor bars for receiving the stones which are elevated by the stone lifting arms, said conveyor bars being spaced apart for the movement of the stone lifting arms between them in a direction towards the front of the machine, and means by which the appliance can be moved forwardly consisting of a handle having portions pivotally mounted on the cross bolt or shaft outside the side bars of the main frame.

2,287,134
SHIELDED IGNITION MANIFOLD SYSTEM
Edwin A. Robertson, Sandusky, Ohio, assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application August 10, 1935, Serial No. 35,683
3 Claims. (Cl. 174—74)



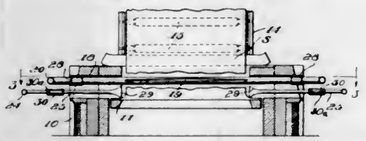
3. A shielding conduit for ignition wires and the like comprising a semi-flexible loom tube of interwoven metal wire and fibrous strands, a covering of yieldable moisture-proof material, such as rubber, surrounding and having interlocking relation with said tube, a pair of superposed braided metallic jackets surrounding said coating, the inner jacket being partially embedded in said coating and having good electrical conductivity and the outer of said jackets having good abrasion-resisting qualities, and a ferrule in an end of said conduit comprising a rigid metallic sleeve surrounding said end and a metallic sleeve expanded within said end of the conduit to compress the latter between said sleeves, the outer end of said second-named sleeve being flared outwardly and secured to said first-named sleeve, as by soldering.

2,287,135
COUPLING MEANS
Edwin A. Robertson, Sandusky, Ohio, assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application January 31, 1938, Serial No. 187,779
13 Claims. (Cl. 174—35)



1. In a union such as for coupling the conduit sections of radio shielding for an electrical conductor, the combination of an electrical conductor, companion union members, one of said members being provided with an interior end recess and both of said members being provided with exterior opposed faces, means for coupling said union members together, a rigid, pressure-resisting metal washer having a solid portion thereof disposed between and engaging said opposed exterior faces, and a rubber grommet disposed in said recess between and in engagement with said members and squeezed inwardly about said conductor.

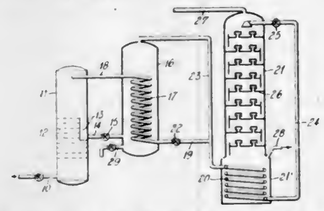
2,287,136
MANUFACTURE OF SHEET GLASS
Eugene Rolland and Charles J. Richter, Clarksburg, W. Va., assignors of one-half to Adamston Flat Glass Company, and one-half to Rolland Glass Company, both of Clarksburg, W. Va., corporations of West Virginia
Application July 17, 1939, Serial No. 284,973
9 Claims. (Cl. 49—17)



1. In sheet glass drawing apparatus comprising a glass-melting tank, a stretching and setting chamber communicating with the tank, an annealing lehr disposed above the chamber, and means for continuously drawing a glass sheet upwardly from the tank and successively through the chamber and lehr; the improvement comprising a pair of parallel slotted air conduits extending through the chamber adjacent to and parallel with opposed faces of a glass sheet being drawn, a pair of parallel air conduits extending into the chamber from each opposite side thereof and terminating adjacent the opposite edges of the sheet substantially below the first-named conduits, and a blower in communication with all of the conduits and operative to draw air from the chamber through the last-mentioned conduits and exhaust air into the chamber through the first-mentioned conduits.

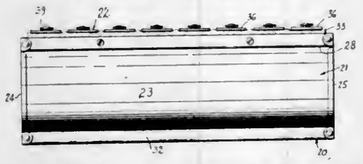
6. In a method of treating a glass sheet while being continuously drawn upwardly from a bath of molten glass and through a stretching and setting chamber having a debiteuse block at the base thereof; the steps consisting in withdrawing air from the chamber adjacent the debiteuse block at spaced points at each side of the sheet and adjacent the vertical edges thereof; and simultaneously directing the withdrawn air together with a further volume of atmospheric and pre-heated air against the opposite surfaces of the glass sheet at positions substantially above the points from which the air is withdrawn, the air being directed against the glass sheet in film formation from edge to edge of the sheet and at an angle to the surfaces thereof.

2,287,137
METHOD OF AND APPARATUS FOR ELIMINATING IMPURITIES WHEN SEPARATING GAS MIXTURES
Harold T. Ross, Bayside, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio
Application November 15, 1940, Serial No. 365,756
19 Claims. (Cl. 62—122)



1. A method for eliminating higher boiling point impurities in the separation of air by rectification at low temperatures which comprises compressing, cooling, and partially liquefying the air to be separated; scrubbing the gaseous portion of the cooled air with the liquid portion to concentrate said impurities substantially entirely in the liquid portion; separating the liquid containing said impurities from the gaseous portion; vaporizing a major part of said liquid by heat exchange with said gaseous portion to form a concentrate of said impurities; withdrawing such impurity containing concentrate; and passing the impurity free material of said gaseous portion and the vapors of said vaporization into a rectifying apparatus for separation into oxygen and nitrogen containing products.

2,287,138
XYLOPHONE
Elmer Sas, New York, N. Y.
Application January 9, 1941, Serial No. 373,721
7 Claims. (Cl. 84—410)

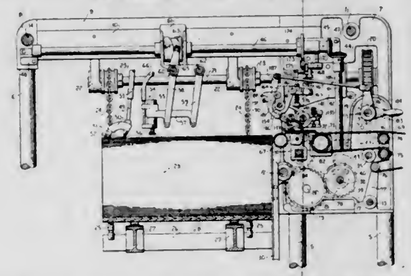


1. In a xylophone, an elongated resonance box made of sheet material, being open at the top and having a bottom, two side walls and two end walls, and being of a generally lyre shape cross section, its side walls having oppositely curved upper and lower portions, so that said box is narrower at the top, its side walls having inwardly curved or convex upper portions, and wider towards the bottom, its side walls having oppositely, outwardly, curved or convex lower portions.

2,287,139
MATERIAL FOR MAKING RUBBER ARTICLES
George Schneider, Montclair, N. J., assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application February 21, 1939, Serial No. 257,659
5 Claims. (Cl. 154—2)

1. A material for making vulcanized rubber articles, comprising a shaped rubber composition having embedded therein a fabric, the weft yarns of which fabric comprise fusible synthetic resin that becomes ineffective at vulcanization temperatures.

2,287,140
SHEET FEEDING APPARATUS
Walter E. Schneider, Leo C. Williams, and Edward J. Yeo, Pearl River, N. Y., assignors to Dexter Folder Company, Pearl River, N. Y., a corporation of New York
Application March 26, 1941, Serial No. 385,242
20 Claims. (Cl. 271—56)



1. In a sheet calipering mechanism for sheet feeders: a normally stationary caliper element; a rotary sheet calipering member spaced from and cooperating with said caliper element to effect actuation thereof in the event more than a predetermined number of sheets at a time is passed between the same and said sheet calipering member, said sheet calipering member having an abbreviated sheet engaging surface normally disposed out of sheet calipering position; and means for rotating the sheet calipering member at predetermined intervals in one direction only to move the sheet engaging surface thereof through sheet calipering position.

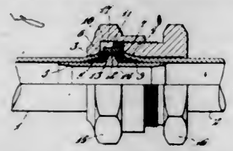
2,287,141
LIQUID DIRT SOLVENT FOR EGGS AND PROCESS FOR APPLYING SAME
Ralph Webb Schofield, Vashon, Wash.
No Drawing. Application December 8, 1939, Serial No. 308,198
12 Claims. (Cl. 99—113)

5. An egg cleaning liquid dirt solvent comprising an aqueous solution containing by volume a fruit acid which has been derived from chemically pure fruit acid in a strength of 9.1% to 15%; and ethyl alcohol substantially 0.9% by volume.

11. The method of cleaning eggs comprising wetting a rubbing means with a liquid dirt solvent comprising an aqueous solution containing by volume a fruit acid which has been derived from chemically pure fruit acid in a strength of 9.1% to 15% and ethyl alcohol substantially

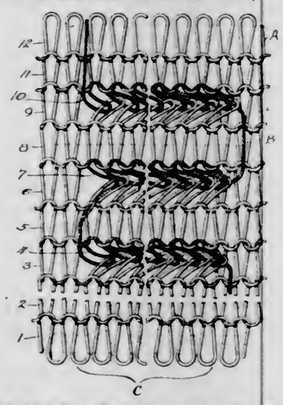
0.9% by volume; and rubbing an egg with said rubbing means to dissolve the dirt from the egg by a physical-chemical reaction so that the dirt is dissolved in the solution and left in the rubbing means as a stain.

2,287,142
PIPE COUPLING
Oliver Edwin Simmonds, Ripley, England, assignor to Simmonds Development Corporation Limited, London, England
Application November 25, 1940, Serial No. 367,124
In Great Britain December 21, 1939
11 Claims. (Cl. 285—126)



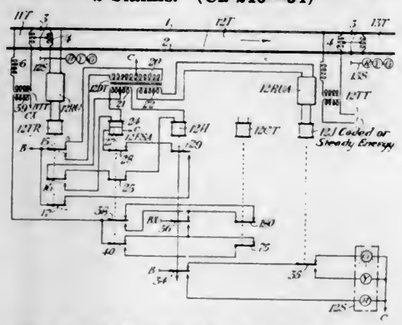
1. A pipe coupling comprising pipes to be joined having flared ends forming conical mouths, a supporting tube extending into the pipe ends, a packing member mounted on the supporting tube, said packing member being of one-piece and having its exterior surface cylindrical at the intermediate portion thereof and conical at the end portions thereof, said conical end portions corresponding to the conical mouths of the pipe ends, means for drawing the pipe ends together to press the inner surfaces thereof against the conical outer surfaces of the packing member, and a retaining ring closely fitting over the said intermediate portion of the packing member to prevent the packing member from lifting away from the supporting tube when the pipe ends are drawn together.

2,287,143
KNITTED FABRIC
Otto F. Smetana, Concord, N. C., assignor of one-half to Ernest A. Feustel, Hasbrouck Heights, N. J.
Application July 25, 1940, Serial No. 347,393
4 Claims. (Cl. 66—178)



1. A flat-knitted fabric comprising full courses of a main yarn, and having a bulged enlargement spaced from the selvages of the fabric, said enlargement including short courses of other yarn, said short courses being each formed between full courses of the main yarn.

2,287,144
RAILWAY SIGNALING SYSTEM
Crawford E. Staples, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application February 3, 1940, Serial No. 317,161
2 Claims. (Cl. 246—34)

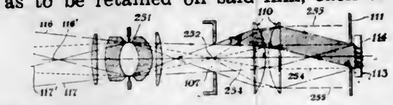


1. In a coded railway signaling system, in combination, a stretch of railway track having a pair of track rails divided by insulated joints into successive track sections including adjoining forward and rearward sections, means for at times supplying coded energy and at other times supplying steady energy to the rails of said forward section, a code following track relay having a winding receiving energy from the rails of said forward section, a transformer, a first and a second auxiliary relay associated with said track relay, means including a contact of said track relay for varying the energization of the transformer primary winding in response to code following operation of the track relay, means operative when the track relay contacts are in their released position for supplying energy from the transformer secondary winding to a winding of the first auxiliary relay, a holding circuit operative when the contacts of the track relay and of the first auxiliary relay are picked up for supplying energy to a winding of the auxiliary relay to maintain the contacts of the auxiliary relay picked up, means responsive to continued code following operation of the track relay subsequent to picking up of the contacts of the first auxiliary relay for supplying energy to the winding of the second auxiliary relay, a first supply circuit for supplying coded energy to the rails of said rearward section, said first supply circuit including a back contact of one of said auxiliary relays, a second supply circuit for supplying steady energy to the rails of said rearward section, said second supply circuit being complete when and only when the contacts of the first auxiliary relay are picked up and the contacts of the second auxiliary relay are released, and a third supply circuit established on picking up of the contacts of the second auxiliary relay for supplying coded energy to the rails of said rearward section.

2,287,145
MOTION PICTURE RECORD
Thomas Stephen, New York, and Richard K. Parsell, Manhasset, N. Y.; said Parsell assignor to said Stephen
Original application February 8, 1936, Serial No. 62,900, now Patent No. 2,185,610, dated January 2, 1940. Divided and this application December 30, 1939, Serial No. 311,868
4 Claims. (Cl. 88—19.5)

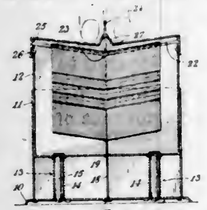
1. A record adapted for cinematography which

comprises an elongated film, a plurality of substantially similar scanning elements on one side of said film, a series of composite images including the entire longitudinal extent (in a direction corresponding to the longitudinal extent of the film) of the photographed subject recorded on the other side of said film in chemical material so as to be retained on said film, each of said



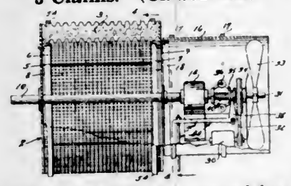
images being confined within the limits of longitudinal extent of each of said scanning elements on said film and each of said scanning elements being adapted to direct rays of light from points disposed longitudinally of said film and behind said scanning element at substantially different angles with respect to rays of light from the other of said points behind said element in a plane intersecting the film longitudinally.

2,287,146
HAIRPIN DISPENSER
William Stern, New York, N. Y.
Application February 10, 1941, Serial No. 378,160
4 Claims. (Cl. 312—64)



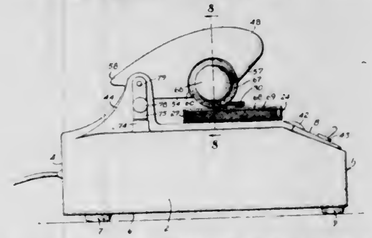
1. In a hairpin dispenser, a stationary member, a movable hairpin container operative in respect to the latter, hairpin suspension means in said container adapted to guide hairpins towards a place of ejection, a hairpin ejector in said stationary member, a container cover having guide means for the top end of hairpins and provided with a hairpin discharge opening for accommodating a single hairpin, said opening being disposed in a substantially vertical plane of the ejector, and depressible means normally urging the container outwards, a plurality of hairpins carried by the suspension means so that a single hairpin aligns with the ejector and contacts with the latter when the container is depressed, whereby the pin is ejected.

2,287,147
EVAPORATIVE COOLER
Robert S. Stratton, Phoenix, Ariz.
Application November 23, 1940, Serial No. 366,813
3 Claims. (Cl. 261—92)



1. An evaporative cooler comprising, in combination, a cylindrical evaporative element having a cylindrical pad of fibrous, porous material, bearing supports therefor so that said element will turn axially in a horizontal plane, a pan positioned beneath said element adapted to maintain water at a level sufficient to immerse a peripheral portion of said evaporative pad throughout its rotary movement, said pan having a drain valve provided with a stem and a water supply pipe with a constant level feed valve thereon, mechanism including a motor for turning said element at a speed sufficient to maintain said pad in moistened but not wetted condition, mechanism in connection with said motor for drawing air through said element and automatic means for filling said pan with water to said predetermined level upon the commencement of the operation of said device, maintaining this level during operation, and discharging water from said pan when operation is stopped, including governor mechanism operative in conjunction with said turning mechanism adopted to communicate its motion relative to the speed of rotation to said drain valve stem and said water feed valve so that when operation is commenced said drain valve closes and said constant level feed valve opens and when operation is stopped said drain valve opens and said feed valve closes.

2,287,148
WEAR AND HARDNESS TESTING INSTRUMENT
Ralph F. Taber, North Tonawanda, N. Y.
Application May 20, 1938, Serial No. 208,953
12 Claims. (Cl. 73—51)

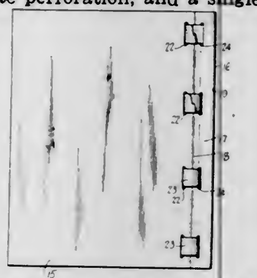


1. A wear testing machine, comprising a support, a movable specimen holder for producing surface travel of a specimen mounted thereon, means for driving said holder, a pair of movable wearing means having travelling wearing surfaces with a portion of each engaged with spaced portions of the surface of said specimen and driven through said specimen and holder by said driving means, said wearing means having the surfaces thereof travelling at an acute angle to said specimen surface during contact therewith, the angle of travel of the surface of one wearing means relative to the direction of travel of the specimen surface being opposite to the angle of travel of the surface of the other wearing means, each wearing means alternately producing wear on the same surface area of said specimen, and means for registering the duration of wear on said specimen.

2,287,149
BOOK COVER
Rudolf Tauber, New York, N. Y.
Application December 13, 1940, Serial No. 369,915
5 Claims. (Cl. 129—1)

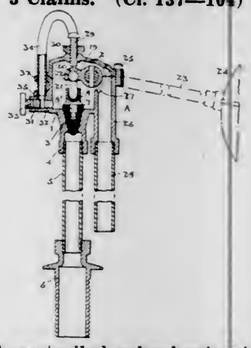
1. A book cover comprising a pair of cover plates and a U shaped back strip, flexible connections uniting the lateral edges of said strip to the rear marginal edges of said plates, said cover plates each having a perforation therethrough adjacent its flexible connection and each

connection having a perforation adjacent the nearest plate perforation, and a single ring fas-



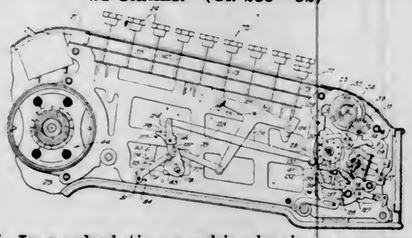
tener passing through each group of alined perforations.

2,287,150
FLOAT VALVE
William Taylor, Peterboro, Ontario, Canada
Application August 23, 1940, Serial No. 353,853
3 Claims. (Cl. 137—104)



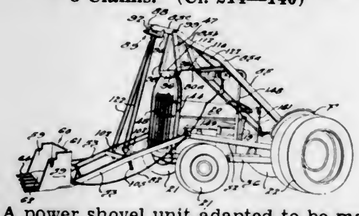
1. A float-controlled valve having in combination, a valve casing having an elongated tapering valve seat, a self-centering elongated tapered valve guided by said valve seat and having an open socket in the top, a float-actuated rock shaft oscillatably journalled in said casing and having an arm extending laterally therefrom within the casing formed with a downwardly facing socket directly above the valve, a pin having a ball-shaped upper end flexibly seated in the arm socket and extending loosely into said valve socket, and means for limiting the valve-opening movement of said arm.

2,287,151
CALCULATING MACHINE
Joseph A. V. Turck, Wilmette, Ill., assignor to Felt & Tarrant Mfg. Co., Chicago, Ill., a corporation of Illinois
Application September 21, 1940, Serial No. 357,678
21 Claims. (Cl. 235—82)



5. In a calculating machine having an accumulator, denominational orders of mechanism for actuating said accumulator, and columns of depressible keys for controlling operation of said actuating mechanisms; means settable to condition the machine for subtraction, and means conditioned by said settable means and operable in response to the depression of any said key and by the actuating mechanism associated therewith to cause operation of the next higher denominational order of actuating mechanism.

2,287,152
POWER SHOVEL
Adam A. Waldecker, Dearborn, Mich.
Application February 20, 1941, Serial No. 379,825
8 Claims. (Cl. 214—140)



1. A power shovel unit adapted to be mounted upon a tractor and operated thereby, comprising articulated longitudinal frame members detachably connected to the front and rear axles of said tractor, a pair of boom sticks pivotally mounted at their inner ends to said frame members at points located in front of said rear axle, said boom sticks extending longitudinally of the tractor to points in advance of the front end of said tractor and having an interconnecting transversely extending reinforcing frame member therebetween located intermediate the forward ends of said boom sticks and the front end of the tractor, spaced pulleys mounted upon said reinforcing frame members, an articulated upright frame structure having its lower ends pivotally mounted upon the forward ends of the longitudinal frame members, said upright frame structure extending above the top of the tractor, a pair of upwardly inclined forwardly extending boom supports pivotally mounted at their inner ends to said longitudinal frame members at points located behind the rear axle, said boom supports being pivotally connected adjacent their forward ends to said upright frame structure, a twin pulley device carried by and located between the boom supports at a point in advance of the pivotal connection between said boom supports and said upright frame structure, a dump bucket pivotally mounted upon the forward end portions of the boom sticks, power operated elevating means for said bucket and boom sticks carried by said boom supports and including a substantially horizontal driven shaft, a friction clutch and brake device and a twin winding drum mounted on said shaft and rotatable therewith when power from the tractor is transmitted to said shaft, means for transmitting power to said driven shaft, and cable means interconnecting said boom sticks and boom supports and adapted to be wound onto said drum for lifting the boom sticks and dump bucket to an elevation approximating that of the forward portions of the boom supports when said power operated means is actuated, said articulated upright frame structure comprising a lower inverted substantially U-shaped portion adapted for rocking movement with said longitudinal frame members when the tractor travels over uneven surfaces and a superimposed substantially A-shaped portion attached to the boom supports and adapted to remain stationary with said supports during the relative rocking movement of said lower frame portion.

2,287,153
FOUNDRY FACING
Burgess P. Wallace, Brooklyn, N. Y.
No Drawing. Application May 11, 1940, Serial No. 334,613
3 Claims. (Cl. 22—189)

1. An intermediate product for use in a spray composition for metal casting sand molds comprising a dry mixture consisting principally of a carbonaceous dust, the particles of which are coated with an adhesive agent consisting of dextrine and are intimately admixed with at least 2% and not more than 10% of bentonite and said mixture containing not less than ¼% and not exceeding 3% of a thickening agent belonging to the group consisting of karaya gum and tragacanth gum, said dry product being characterized by the fact that when admixed with one to two volumes by weight of water, then a water suspension of the composition can be obtained which is susceptible of being continually sprayed from a spray nozzle as a uniform coating upon the surface of a green sand mold and in which suspension the composition remains suspended for long periods of time without the solids of the mixture becoming compacted in such a manner that they can not be readily re-suspended by merely manually stirring the mixture.

2,287,154
PHOSPHORIC ACID DICHLORIDES OF COMPOUNDS HAVING A BACTERICIDAL ACTION AND PROCESS FOR THE MANUFACTURE OF SAME
Kurt Warnat, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application July 24, 1939, Serial No. 286,298. In Germany July 30, 1938
9 Claims. (Cl. 260—397.7)

1. Compounds of the formula



wherein R represents a radical selected from the group consisting of hydrogen, alkyl and aralkyl radicals, R′ represents a sulphurous radical selected from the group consisting of —SO—, —SO_2— and —SO_2NH— radicals, and R″ represents a radical selected from the group consisting of sulphon amido, sulphon alkyl amido, sulphon dialkyl amido, dialkyl amino, acyl amino, and phosphoric acid dichloride amino radicals said radical R″ being in a position selected from the group consisting of para and meta positions.

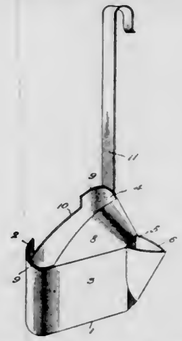
2,287,155
PHOSPHORIC ACID DICHLORIDES OF 4-AMINO BENZENE SULPHONAMIDE AND PROCESS FOR THE MANUFACTURE OF SAME
Kurt Warnat, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application May 1, 1939, Serial No. 271,162. In Germany May 16, 1938
9 Claims. (Cl. 260—397.7)

1. A compound of the formula

$Cl_2PO—NHC_6H_4SO_2N(R)(R')$

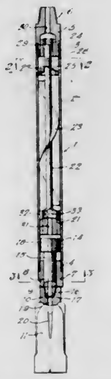
wherein R and R′ are radicals selected from the group consisting of hydrogen and lower alkyl radicals.

2,287,156
SKIMMER
George D. White, Jersey City, N. J., assignor of one-half to Charles V. Holsey, Jersey City, N. J.
Application August 29, 1941, Serial No. 408,708
6 Claims. (Cl. 65—28)



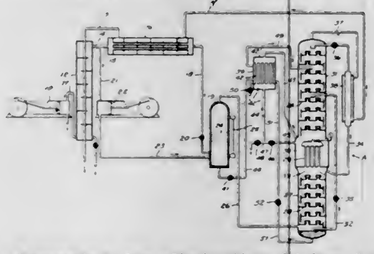
1. A skimmer comprising a closed bottom receptacle provided at one side with a discharge spout, the interior of which is isolated from the interior of the receptacle except at a discharge opening near the bottom of the receptacle and spout, and a hood covering the top of the receptacle adjacent the spout, said receptacle being provided in its side remote from the spout with a liquid inlet at a lower elevation than the upper edges of the receptacle and spout, and a handle for manipulating said skimmer.

2,287,157
HYDRAULIC DRILLING JAR
Mahlon H. Wolff, Los Angeles, Calif.
Application June 9, 1941, Serial No. 397,239
6 Claims. (Cl. 255—27)



1. A drilling jar adapted to be secured to drill pipe and rotated thereby, including a tubular body, an anvil within said body, a bit secured to one end of said anvil, an external separable jaw clutch between the body and said bit, the body when rotating producing rotation of said bit when the clutch is engaged, lifting of the body disengaging said clutch to permit rotation of the body independent of rotation of the bit, a hammer within the body, and means for producing impact between the hammer and the anvil to produce a jarring action on said bit, said means functioning independent of rotation of the body.

2,287,158
METHOD OF AND APPARATUS FOR SEPARATING GAS MIXTURES
Edward F. Yendall, Kenmore, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio
Application November 15, 1940, Serial No. 365,816
24 Claims. (Cl. 62—175.5)



12. Apparatus for eliminating higher boiling impurities prior to the separation of a gas mixture by rectification at low temperatures which comprises means for separating the liquid phase fraction of a cooled and partly liquefied gas mixture from the gaseous fraction thereof in a manner such that said impurities are substantially entirely contained in said liquid fraction; means for vaporizing a major part of said liquid fraction to concentrate the impurities in the remainder; means for withdrawing such remainder; and means for subjecting said gaseous fraction and the vapors of said vaporization of the liquid fraction to rectification.

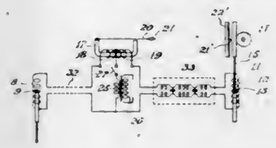
2,287,159
LAMINATED TRIM PANEL
Paul R. Zinser, Detroit, Mich., assignor to Woodall Industries Incorporated, Detroit, Mich., a corporation of Michigan
Application March 27, 1937, Serial No. 133,291
1 Claim. (Cl. 154—45.9)



A laminated embossed trim assembly comprising a layer of absorbent fibrous wadding, a layer of trim material overlying one surface of the wadding, strips of loosely woven fibrous sheet material saturated with a thermoplastic adhesive overlying corresponding portions of opposite surfaces of the wadding, one of said strips being relatively light weight and flexible and disposed between the wadding and the trim material, the other strip being relatively heavy and self form sustaining and adapted to assume and permanently retain an embossed design, said laminated assembly being embossed and compacted together along the median longitudinal line of said strips spaced between the longitudinal margins of the strips, said wadding being held adhesively compacted together along said line between said strips by adhesive flowed from the strips onto the wadding along said line, said trim material being adhesively held along said compacted line to the wadding, said strips serving to give form and contour to the wadding and trim material extending away from opposite sides of the compacted line.

2,287,160
ELECTRICAL COMMUNICATION
Wilson Aull, Jr., Flushing, N. Y.
Application November 6, 1939, Serial No. 303,097
3 Claims. (Cl. 177—351)

1. Means for measuring changes which comprises variable transmitting and receiving impedances, an electro-magnetic device having a tuned reed and two opposed and equalized coils

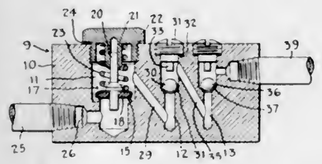


in series with the respective impedances and means for adjusting the receiving impedance and at the same time moving an indicating device.

2,287,161
COATED CELLULOSIC PRODUCTS AND METHOD FOR PRODUCING THE SAME
Robert W. Ball, Avondale, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 23, 1940, Serial No. 315,168
16 Claims. (Cl. 106—214)

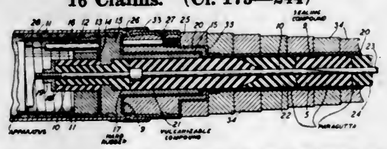
1. A process for producing a coated, sheeted cellulosic fabric comprising applying to said fabric an aqueous adhesive coating composition containing as an essential ingredient pigment anhydrite treated with from about .1 to 2%, based on the pigment, of a water-soluble alkali polymeric polyhydroxy compound from the group consisting of carboxyalkyl ethers and acid esters of carbohydrates and polyvinyl alcohols as a thinning agent for said composition, said anhydrite having a reflectance value in the blue region of not less than about 0.9, a frequency particle size average not exceeding about 0.7 micron, and an oil absorption value ranging from about 12.5 to 37.5, said adhesive being relatively inert towards said anhydrite.

2,287,162
FLASH PROTECTION DEVICE
Conrad De K. Bliss, Englewood, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application December 27, 1939, Serial No. 311,088
8 Claims. (Cl. 48—192)



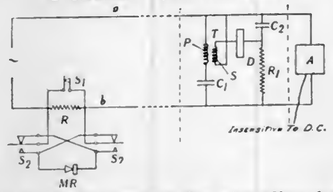
1. Apparatus for protecting a gas line against flash-backs including in combination a first check valve biased toward closed position and comprising a seat and a valve element, one of which has a rubber face soft enough to accommodate itself, when under pressure, to foreign bodies that become lodged between the valve element and seat, means exerting a continuous predetermined force that urges said valve element toward said seat, and a second check valve on the down-stream side of and in series with the first check valve, said second check valve having a bias toward closed position and opening in the direction of gas flow, and including a seat and a metal valve element.

2,287,163
SEAL AND JOINT FOR DEEP-SEA CABLES
Walter M. Bishop, Flushing, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 13, 1939, Serial No. 267,632
16 Claims. (Cl. 173—244)



1. In a method of molding a seal about an intermediate portion only of an elongated strand, the steps of placing in a mold the said portion of the strand and a predetermined quantity of a cold sealing compound surrounding said portion, of tightly confining said compound between contiguous surfaces of said mold, of heating the mold and contents to plasticize said compound, of applying a high pressure to said compound as confined within the closed mold to compress it and force it into close contact with the said strand, of cooling the mold and contents, and of preventing substantial relaxation of said pressure until the compound has cooled substantially to the solid state.

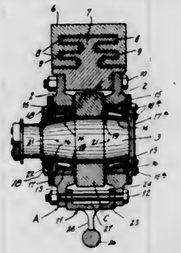
2,287,164
ELECTRIC SIGNALING SYSTEM
Edward Albert Henry Bowsher, London, England, assignor to International Standard Electric Corporation, New York, N. Y.
Application June 4, 1937, Serial No. 146,451
In Great Britain June 19, 1936
5 Claims. (Cl. 177—352)



1. In an arrangement for signaling by direct current over a two-conductor circuit connected to an A. C. load and traversed by alternating current, a direct current responsive device comprising an electromagnetic relay connected on one side to one conductor of said circuit, and means rendering said relay independent of influence of said alternating current comprising a transformer primary bridged across said alternating current circuit and a transformer secondary coupled to said primary and connected at one end to the other side of said relay and at the opposite end to the other conductor of said circuit, the resistance of said primary winding being low, and the inductance of said primary winding being equal to the mutual inductance of said primary and secondary windings.

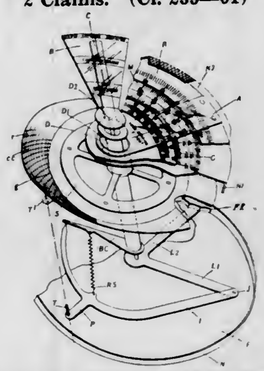
2,287,165
LOCOMOTIVE CROSSHEAD
Tracy V. Buckwalter, Massillon, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application August 17, 1940, Serial No. 353,046
8 Claims. (Cl. 308—3)

1. In a locomotive crosshead construction, a horizontally disposed overhead guide, a crosshead suspended from and slidable along said guide, a piston rigidly connected to said crosshead below said guide for moving said crosshead therealong, a main rod pivotally connected to said crosshead at the level of said piston, and means on the lower portion of said crosshead for balancing the unbalanced inertia forces in said construction due



to the overhead suspension of said crosshead, said means comprising a member rigid with and extending below the bottom of said crosshead, the lower portion of said member being enlarged to provide increased weight at a maximum distance below said piston rod.

2,287,166
DEVICE FOR ASSISTING NAVIGATION
Henri Gaston Busignies, Louis Charles Gallant, and Paul Lucien Bour, Paris, France, assignors to International Standard Electric Corporation, New York, N. Y.
Application May 17, 1939, Serial No. 274,148
In France June 2, 1938
2 Claims. (Cl. 235—61)

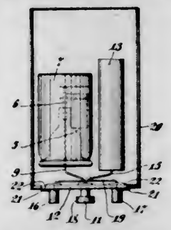


1. A calculating device for radio direction finders comprising a rotatable disc bearing a scale of geographic meridians, a rotatable annulus carrying a scale of radio goniometric bearings, said scales being concentrically arranged, a first cursor arm secured to said annulus and cooperating with said disc for indicating the true goniometric bearings, a second cursor arm rotatably adjustable over said scales for indicating the geographical course to be followed, and a third cursor arm rotatable over said scale, and means for causing relative displacement between said second and third cursor arms upon rotation of said first cursor arm to compensate for errors peculiar to the radio goniometer arrangement with which the calculating device is to be used.

2,287,167
STARTER SWITCH
Charles Chirelstein, Newark, N. J.
Application July 23, 1941, Serial No. 403,655
3 Claims. (Cl. 200—122)

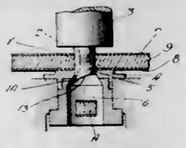
1. A glow switch having a bimetallic element

heated by glow discharge and having an insulating base with terminal pins engageable with two of the contacts of a four pole thermal relay switch socket and two additional terminal pins on said



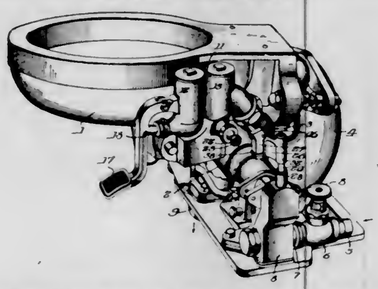
insulating base located to engage the two other contacts of such a socket and a permanent electrical connection between said two additional terminal pins.

2,287,168
PUNCH
James K. Duncan, Chicago, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application April 11, 1940, Serial No. 329,007
6 Claims. (Cl. 164—124)



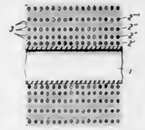
1. A punch of the class described comprising a tubular shank having a sharp cutting edge at its forward end substantially flush with the outer surface of said shank and sloping from one side thereof rearwardly toward the opposite side of said shank and the portion of the punch adjacent said cutting edge being beveled inwardly therefrom, said beveled surface extending from said cutting edge to the central opening in said shank and at the leading side of said punch forming a more acute angle with the surface of said shank than at the opposite side of the punch.

2,287,169
TILTING CLOSET ACTUATOR MECHANISM
Edward A. Fredrickson, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application August 25, 1941, Serial No. 408,197
5 Claims. (Cl. 4—10)



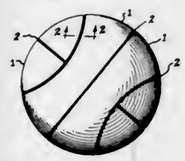
1. In combination, a foldable type closet bowl, a flush valve therefor, means for actuating the said flush valve upon unfolding movement of the said bowl, the said means comprising a tiltable valve actuator, tripping means for the said actuator, the said tripping means including a fixed, substantially vertical supporting means therefor, means on said supporting means for adjustably positioning the said tripping means, a pawl secured to the end of the said arm in the path of the said actuator, the said pawl providing index means, whereby upon folding movement of the said closet bowl the said pawl releases to permit untripped movement of the said valve actuator and upon unfolding movement of the said closet bowl the said pawl acts to trip the said valve actuator.

2,287,170
INDUCTANCE DEVICE
Albert G. Ganz, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 14, 1940, Serial No. 365,627
5 Claims. (Cl. 175—356)



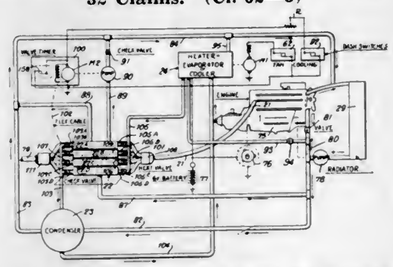
1. A high frequency inductance device for the transmission of frequencies of the order of 10 kilocycles or higher comprising a multilayer winding, each layer having a plurality of turns and insulation between adjacent layers, characterized in this that said layers and said insulation are adjusted to give between adjacent layers an inherent capacitance which varies progressively from the innermost layer to the outermost layer by such relative values that the potential gradient from layer to layer due to capacitances is substantially the same as the potential gradient from layer to layer due to magnetic flux linkages.

2,287,171
GAME BALL
Hugo Goldsmith, Cincinnati, Ohio, assignor to Sport Products, Inc., Cincinnati, Ohio, a corporation of Ohio
Application July 20, 1939, Serial No. 285,571
1 Claim. (Cl. 273—65)



A play or game ball having a carcass or body portion and a cover or casing for said carcass made up of a plurality of separate pieces of leather like material secured to said carcass by an adhesive, said material of said cover pieces having an outer grain surface and an inner skin surface, and said cover pieces having edge portions cut angularly at the edges of said pieces from the grain side of the pieces and the skin surfaces of the pieces secured to the carcass of the ball without distortion from the normal contour of the skin surfaces of the pieces when applied to the ball.

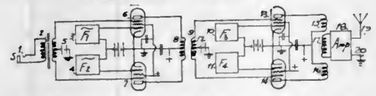
2,287,172
METHOD OF AND APPARATUS FOR REFRIGERATION AND AIR CONDITIONING
Laurence S. Harrison, Bronxville, and Allen A. Canton, New York, N. Y., and Alfred G. Kay, Palm Beach, Fla., assignors, by mesne assignments, to said Laurence S. Harrison
Application January 10, 1939, Serial No. 250,142
32 Claims. (Cl. 62—5)



1. An air conditioning system for automotive vehicles driven by internal combustion engines, comprising in combination, a generator-adsorber provided with a plurality of generator-adsorber units containing a refrigerant adsorbent material, means for selectively passing hot exhaust gases from the motor to said units to drive the refrigerant out of said adsorbent material, a condenser receiving said refrigerant from successive units, means for selectively passing engine cooling fluid to said units which are not being heated to cause the material to adsorb refrigerant, an evaporator receiving refrigerant from said condenser, and means for supplying refrigerant from said evaporator to said units.

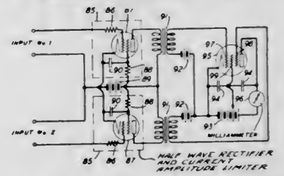
31. The method of producing refrigeration from the waste heat of combustion of an internal combustion engine, and comprises; admitting to portions of a non-liquid porous refrigerant adsorbent material, which is stable and effective at the temperatures of engine cooling fluid and engine exhaust gases, a refrigerating fluid which is capable of being adsorbed in substantial quantities by the adsorbent material at the temperatures approximating the temperatures of engine exhaust gases; circulating engine cooling fluid at times in good heat exchanging relation to but not in contact with the adsorbent material for causing the adsorbent action; and alternatively circulating engine exhaust gases in good heat exchanging relation to but not in contact with the material for heating the material at times to drive off the adsorbed refrigerating fluid.

2,287,173
MEANS OF RADIO TRANSMISSION AND RECEPTION BY MEANS OF UNIDIRECTIONAL MODULATION
Julius Hartz, New Orleans, La.
Application June 6, 1940, Serial No. 339,124
6 Claims. (Cl. 250—6)



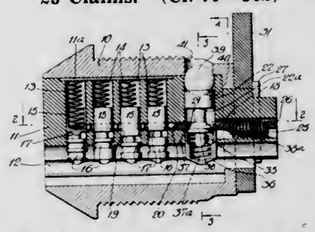
1. The combination in a modulation system of a modulated modulating high frequency source whose wave form provides a succession of equal time period half waves alternately polarized respecting a zero value; a pair of oscillation generators each coupled to a modulator, which modulators in the absence of signals are biassed closely to cut-off, means for applying to the modulators the said alternately polarized modulating currents which currents, due to the bias on the modulators, result in uni-directional modulation of each carrier, and means for transmitting and receiving the said alternately polarized uni-directional modulations.

2,287,174
RELATIVE PHASE MEASURING CIRCUIT AND METHOD
Raymond A. Heising, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 16, 1939, Serial No. 295,220
7 Claims. (Cl. 172—245)



1. The method of determining the relative phase of two alternating currents of the same frequency comprising rectifying each current to obtain one-half only of each cycle, passing each rectified current through an amplitude limiting device to produce substantially square-topped impulses of a particular amplitude and measuring the degree of overlap in time of the pulses derived from one current with respect to those derived from the other current to obtain an indication of the phase relation between said currents.

2,287,175
LOCK
Frederic K. Heyer, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application May 15, 1940, Serial No. 335,285
23 Claims. (Cl. 70—362)

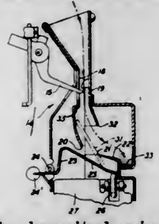


1. In a lock of the class described, a cylinder, a key plug rotatably mounted in said cylinder and having a keyway, tumblers adapted to be positioned by a key inserted into said keyway, a locking member for locking said key plug against free rotation relatively to said cylinder, said tumblers having slots into which said locking member is adapted to enter whereby to release said key plug for rotation, means for moving said locking member into said tumbler slots, and means for maintaining said locking bar out of said tumbler slots until said key plug is rotated relatively to said cylinder.

2,287,176
TELEPHONE COIN COLLECTOR
Frederick A. Hoyt, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 29, 1940, Serial No. 321,367
6 Claims. (Cl. 232—57.5)

1. A telephone coin collector comprising a coin

hopper having a substantially vertically arranged coin receiving chute, means for directing coins of a plurality of denominations into said chute, a first coin channel and a second coin channel leading from said chute, a pivoted coin trap in said first channel for supporting a coin falling into said first channel, means for guiding a deposited coin onto said trap for support in such a position that the upper face of the deposited coin acts as a deflector to receive the bottom edge



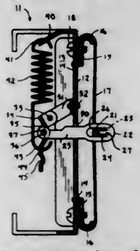
of a subsequently deposited coin to laterally deflect the subsequently deposited coin, said guiding means and said first channel above said trap having such a configuration that the bottom edge of said subsequently deposited coin in falling into said first channel initially strikes the upper face of the previously deposited coin at a point substantially remote from the periphery of the said previously deposited coin, said second channel having a coin entrance for receiving said deflected coin.

2,287,177

TEMPERATURE RESPONSIVE DEVICE

Frederick D. Joesting, Chicago, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application September 1, 1939, Serial No. 293,091
4 Claims. (Cl. 297—11)



1. A temperature responsive device comprising in combination, a relatively non-expansible support, a relatively expansible elongated one-piece metal ribbon, and a pair of mounting members having rounded surfaces over which the ends of said metal ribbon are stretched, said ends being split to relieve internal stresses which may be set up in them due to mounting or dimensional variations due to temperature changes.

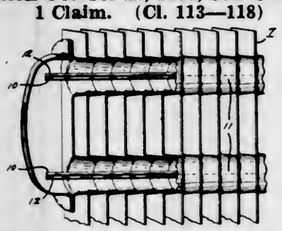
3. A temperature responsive device comprising in combination, an expansible ribbon, a pivoted lever, a link operatively connecting said ribbon and lever, and a spring connected at one end to a fixed support and at the other end to said lever at a point on the other side of the pivot for said lever from said support, said spring exerting a rotative force on said lever which places said ribbon under an initial tension, expansion of said ribbon due to a rise in temperature permitting said spring to rotate said lever in a direction to increase the angle between said lever and said spring, said angle being of such size that as the angle is increased upon expansion of said ribbon the increased rotative force exerted by said spring on said lever is sufficient to maintain said ribbon under a substantially constant tension.

2,287,178

METHOD OF FORMING REFRIGERATING APPARATUS

Hal C. Johnston, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application October 22, 1938, Serial No. 236,482
1 Claim. (Cl. 113—118)



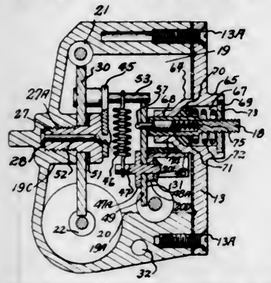
The method of manufacturing tubing which comprises telescoping a plurality of tubular elements together so as to form a tube, placing bonding material along the length of said tube, placing a relatively small distributing strip of a material having a higher melting point than the melting point of the bonding material along one wall of said tube, heating the assembly to a temperature sufficient to melt said bonding material but not sufficient to melt said distributing strip, whereby said strip serves to distribute evenly the molten bonding material along the length of said tube.

2,287,179

FLUID PRESSURE CONTROLLED WINDSHIELD WIPER

Frederick Kocher, Wilkinsburg, Pa., assignor to Earnest E. Fehlman, Detroit, Mich.

Application March 1, 1939, Serial No. 259,085
16 Claims. (Cl. 121—164)



1. In a windshield wiper motor unit in combination with the lubricating system of an internal combustion engine, means whereby the de-energized operating fluid from said motor unit returns to the low pressure side of said lubricating system through a loop passage arranged to conduct said operating fluid at one point to a horizontal level lower than the horizontal level of the point of connection with the said low pressure side of said lubricating system.

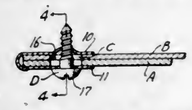
15. A housing for a windshield wiper motor comprising a body having a tubular chamber in the top thereof, a tubular cylinder near the bottom thereof, two tubular chambers near the bottom thereof in close proximity to each other and to said cylinder but arranged so that neither shall lie directly between the other one and said cylinder, all of said chambers and said cylinder lying parallel with each other, and a substantially rectangular chamber open on one side but adapted to be closed by a plate affixed thereto and provided on its closed side with a boss adapted for mounting the internal mechanism of said motor, said chamber lying intermediate the chamber at the top of said housing and the cylinder and communicating in a wide portion with said top chamber intermediate the two ends thereof and in a wide portion with said cylinder and one of the two bottom chambers intermediate the ends of each thereof, whereby the housing with the central rectangular chamber therein may be cast in one piece and the other chambers and cylinder and passages therebetween may be easily provided by drilling.

2,287,180

FASTENER

Harold W. Kost, Ferndale, Mich., assignor, by mesne assignments, to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan

Application September 19, 1938, Serial No. 230,563
7 Claims. (Cl. 85—36)



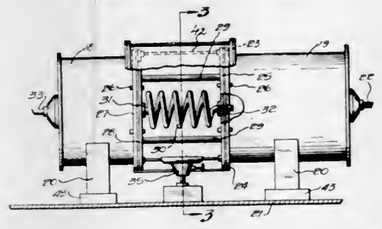
1. A fastener for securing a structure provided with a hole through which a screw or the like extends, comprising a unitary substantially C-shaped strip of sheet material having the arms thereof disposed in superposed relation, a thread engaging portion formed in one arm, and a tongue struck out of the material in the region of said thread-engaging portion, said tongue being adapted to enter the hole in the structure thereby to hold the fastener against displacement.

2,287,181

WATER HEATER

Steve Latanski, Chicago, Ill.

Application October 30, 1940, Serial No. 363,392
2 Claims. (Cl. 122—23)



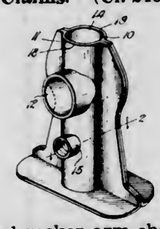
1. A water heater comprising a pair of horizontally disposed axially alined cylinders of unequal length, said cylinders being spaced from one another and being of the same diameter, a cold water inlet at the outer end of the longer cylinder, a hot water outlet at the outer end of the smaller cylinder, a horizontally disposed coiled pipe arranged within the space between the two cylinders and having its ends extending into the respective centers of the inner opposed ends of the spaced cylinders, a series of pipes interconnecting the spaced cylinders and arranged concentrically around the coiled pipe, heating means for said pipes arranged beneath the coiled pipe, and a cylindrical heat insulated shell embracing the inner end portions of the spaced cylinders and encasing the pipes and the heating means for the latter.

2,287,182

ROCKER ARM SHAFT BRACKET

James M. Leake, Toledo, Ohio, assignor to Toledo Stamping and Manufacturing Company, Toledo, Ohio, a corporation of Ohio

Application July 29, 1938, Serial No. 221,959
4 Claims. (Cl. 248—14)



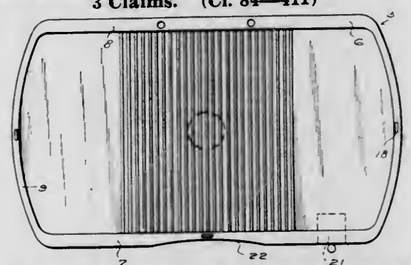
1. A stamped rocker arm shaft bracket having substantially parallel superimposed layers, a hub comprising annular flanges struck in opposite directions from said layers, a foot or base comprising flanges struck in opposite directions from said layers and a substantially vertical hole formed by opposite grooves in the adjacent surfaces of said layers.

2,287,183

MUSICAL INSTRUMENT

Grover H. Lively, St. Albans, W. Va.

Application December 29, 1941, Serial No. 424,819
3 Claims. (Cl. 84—411)



1. A musical instrument comprising a substantially flat hollow box having an imperforate top and a bottom provided with a tone hole, said top being formed of a central metallic section having its surface roughened and relatively thin end sections of fibrous material, said bottom being disposed in spaced relation under both the central and end sections.

2,287,184

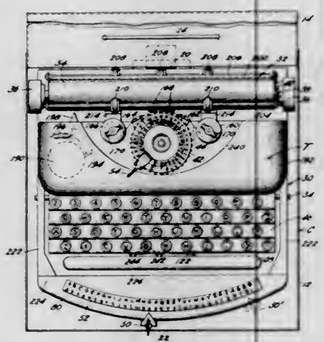
TOY TYPEWRITER

Raymond J. Lohr, Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York

Application April 6, 1939, Serial No. 266,315
13 Claims. (Cl. 197—47)

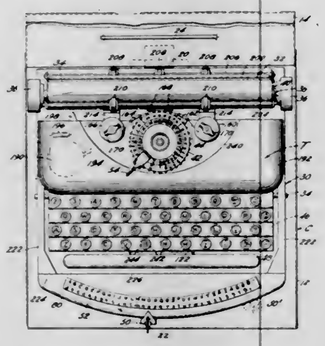
1. A toy typewriter comprising a frame, a carriage slidable on said frame, a rotatably mounted type wheel, means supporting said type wheel for movement toward and away from said carriage in order to print a type character, a simulated keyboard bodily movably mounted in the frame, a type selector located remote from and operable independently of the keyboard for ro-

tating the type wheel to select a type character, and means so connecting the said keyboard and



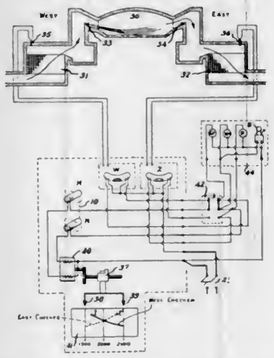
said type wheel supporting means that depression of the keyboard causes a printing movement of the type wheel.

2,287,185
TOY TYPEWRITER
Raymond J. Lohr, Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York
Original application April 6, 1939, Serial No. 266,315. Divided and this application September 17, 1940, Serial No. 357,081
8 Claims. (Cl. 197—89)



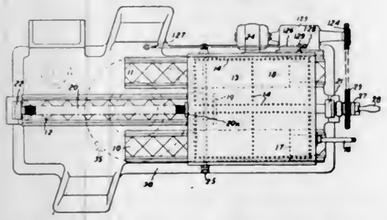
1. A toy typewriter comprising a frame, a carriage slidable on said frame, a printing wheel, a simulated keyboard depressibly mounted to actuate the printing wheel, a feed dog normally engaging said carriage for causing step by step forward movement of the carriage, an elongated spacer bar in front of the simulated keyboard near the front of the frame, said spacer bar being depressed by said keyboard when the keyboard is depressed, and also being independently depressible, linkage between said spacer bar and said feed dog for causing movement of the feed dog in response to normal movement of the spacer bar, and additional means whereby increased movement of the spacer bar greater than the normal movement operates to free the carriage and the feed dog from one another in order to afford free movement of the carriage in either direction.

2,287,186
FLOW REVERSAL IN OPEN HEARTH FURNACES AND THE LIKE
Kenneth C. McCutcheon and Walter E. Hand, Ashland, Ky., assignors to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio
Application September 8, 1939, Serial No. 293,998
7 Claims. (Cl. 236—15)



4. The method of operating a regenerative furnace which comprises selecting as a basis of furnace reversal a definite temperature drop in the air entering the furnace from its temperature at the start of a cycle to the point of reversal, reversing the furnace upon the attainment of said temperature drop of the air entering the furnace from its temperature at the start of each cycle, during conditions of furnace balance, and varying said temperature drop during conditions of furnace unbalance in such manner as to tend to restore conditions of furnace balance.

2,287,187
MACHINE FOR PLANING METAL SHEETS
Thomas Jerome Masse, Alexandria, near Sydney, New South Wales, Australia, assignor to The Edes Manufacturing Company, Plymouth, Mass., a corporation of Massachusetts
Application July 28, 1939, Serial No. 286,952
In Australia March 30, 1939
21 Claims. (Cl. 90—25)



1. In an apparatus for machining metal including a movable work table, means for holding work to be machined on said table, a spindle rotatable in bearings above said table, a tool head fixed on one end of said spindle and at least one tool secured to said tool head, mounting means for said spindle comprising a thrust bearing and cushioning spring means on which the axial load of the spindle is supported in compression and adjustable means for applying downward pressure to the top end of the spindle in opposition to the upward thrust of said cushioning spring means.

2,287,188
STABILIZING VINYL AROMATIC RESINS AGAINST LIGHT
Lorne A. Matheson and Raymond F. Boyer, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application May 6, 1940, Serial No. 333,598
18 Claims. (Cl. 260—91)

1. A plastic composition comprising a vinyl aromatic resin and, as an agent for stabilizing the resin against discoloration by light, an amine having an ionization constant greater than 10^{-9} and having a boiling point above 200° C. at atmospheric pressure.

2,287,189
STABLE COMPOSITIONS CONTAINING VINYLIDENE CHLORIDE POLYMERIC PRODUCTS
Lorne A. Matheson, Raymond F. Boyer, and Gerald H. Coleman, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application September 19, 1940, Serial No. 357,407
6 Claims. (Cl. 260—80)

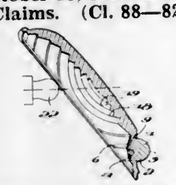
1. A composition of matter comprising a polymeric vinylidene chloride product, and, as a stabilizer therefor, an aryloxy-alkyl ester of an unsaturated carboxylic acid containing a maximum of 2 carboxylic groups.

2,287,190
ANTIPICKING DEVICE
Glenn E. Mitchell, Hayward, Calif.
Application January 30, 1940, Serial No. 316,345
11 Claims. (Cl. 119—97)



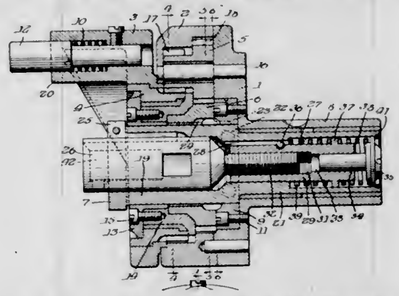
9. An anti-picking device for application to the beak of a fowl, comprising an element adapted to straddle and lightly rest upon the upper mandible of a fowl and extend beyond the tip thereof, said element having integral inturned pivot members for engagement in the nasal fossae of a fowl, and a smooth contour free of lateral wire screen engageable projections.

2,287,191
REFLECTOR
James A. Morehead, Huntington, W. Va., assignor to Samuel M. Dover, Chicago, Ill.
Application October 18, 1938, Serial No. 235,685
6 Claims. (Cl. 88—82)



1. A light transmitting and reflecting signalling lamp lens having a main body portion adapted to transmit light therethrough from a light source and an insert adapted to reflect light along a path substantially parallel to the incident beam, said body portion and insert being of different kinds of glass, said insert comprising a preformed mass extending into and integrally united at its periphery with the body portion, said body portion having joined thereto a layer of glass overlying the insert and integrally united therewith over a substantial part of its area, the outer surface of said layer and the exposed opposite surface of the insert being of the necessary curvature and spacing to constitute an autocollimating reflector.

2,287,192
THREADING HEAD FOR MACHINE TOOLS
Alfred Mueller, Berwyn, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application March 27, 1940, Serial No. 326,152
9 Claims. (Cl. 10—138)

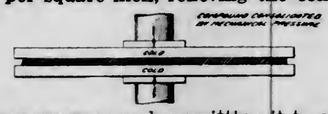


1. A threading head of the type described, the said head comprising a combined threading holder and spindle, a driving member, a driven member, the said driving member being engageable with the said driven member to drive the said driven member at a rotational velocity in excess of the rotational velocity of the said driving member, the said driving member including a drive ring and idler gears whereby upon rotational movement of the drive ring the driven member is caused to rotate in the direction of rotation of the drive ring but at an increased velocity, the said spindle being normally nonrotatable but upon predetermined axial positioning thereof being engageable with the said driven member for rotational movement therewith, a clutch ring cooperating with the said spindle, the said driven member having an annular recess providing for engagement by movable means positioned upon the spindle, the said movable means being positioned within the annular recess of the driven member, the said latter movable means comprising balls in the outer periphery of the said spindle selectively engageable respectively with grooves in the said driven member or with grooves in the said clutch ring for rotating the spindle after threading is done or locking the spindle against rotation during the threading operation.

2,287,193
PROCESS FOR MAKING CLOSED-CELL CELLULAR RUBBER
Robert L. Overstreet, Bedford, Va., assignor, by mesne assignments, to Salta Corporation, Jersey City, N. J., a corporation of Delaware
Application March 4, 1939, Serial No. 259,732
9 Claims. (Cl. 18—53)

1. The method of manufacturing closed-cell cellular rubber, which comprises consolidating a mass of rubber compound by mechanical pressure

while cold, then subjecting the compound to a neutral gas under a pressure of several thousand pounds per square inch, relieving the compound



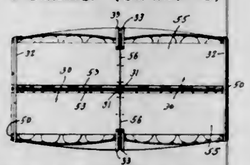
of the gas pressure and permitting it to expand, and then vulcanizing the compound by heat under conditions which prevent further expansion thereof.

2,287,194

MULTIPLE BOX

Hale Paxton, Santa Ana, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware

Application February 5, 1938, Serial No. 188,910
6 Claims. (Cl. 217—5)



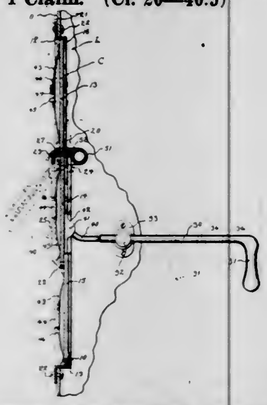
1. A shipping box comprising a plurality of similar individual box units positioned alongside each other with the bottom and one side of each unit lying against other units, and means securing said units together, in which each individual box unit has a double center partition composed of two distinct heads and in which the bottom and said mentioned one side wall of each unit are discontinuous between the center heads, and the remaining side wall is continuous across said center heads, said last mentioned side wall of each unit forming an exterior wall of the complete shipping box.

2,287,195

LOCOMOTIVE CAB WINDOW

John W. Richardson, Milwaukee, Wis., assignor to The Prime Manufacturing Company, Milwaukee, Wis.

Application March 29, 1939, Serial No. 264,742
1 Claim. (Cl. 20—40.5)



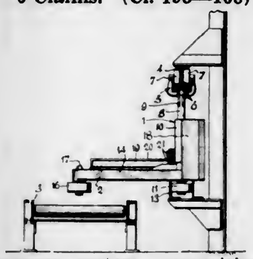
A locomotive cab window comprising, a metal frame including longitudinally extending side bars, top and bottom cross-bars, and an intermediate cross-bar, a top transparent panel fitted in the upper part of the frame, a swinging panel having a frame hingedly connected to the intermediate cross-bar, a transversely extending distributing manifold pipe having upper and lower rows of openings communicating therewith facing toward said panels, said pipe being adapted to receive heated air, and said pipe being carried by and forming a part of the transversely extending intermediate cross-bar, whereby heat from said pipe will be transmitted to the cross-bar and the hinge to prevent freezing up of said hinge.

2,287,196

CONVEYER

Robert J. Roland, Cincinnati, Ohio, assignor to The Alvey-Ferguson Company, Cincinnati, Ohio, a corporation of Ohio

Application April 17, 1941, Serial No. 389,032
6 Claims. (Cl. 198—168)



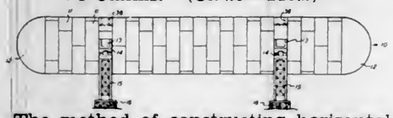
1. A conveyer system, comprising: a roller conveyer and a trolley conveyer adjoiningly arranged, the trolley conveyor having a radial arm for contacting and translating an article upon the roller conveyer, a carriage suspended from said trolley conveyer traversing a guideway of the trolley conveyer, said radial arm being mounted upon said carriage and extended horizontally over the roller conveyer for engagement with an article upon said roller conveyer for translating the same, said arm traversing said guideway to sustain the same against lateral displacement.

2,287,197

METHOD OF CONSTRUCTING HORIZONTAL CYLINDRICAL TANKS

William A. Sandberg, Los Angeles, Calif., assignor to Lacy Manufacturing Company, Los Angeles, Calif., a corporation of California

Application March 19, 1940, Serial No. 324,837
3 Claims. (Cl. 29—148.2)



1. The method of constructing horizontal cylindrical tanks of large diameter which comprises: constructing in an axially vertical position cylindrical rings having the diameter required for the tank by joining the straight ends of arcuately curved sheets; staying said rings to prevent deformation when said rings are lifted; lifting said rings to an axially horizontal position, and assembling said rings end to end; resting each ring as assembled on two points of support; hydraulically applying a lifting effect to said supporting points as said rings are rested thereon and thereby bringing the adjacent ends of said rings into abutting position; joining said abutting ends to form a continuous cylinder and

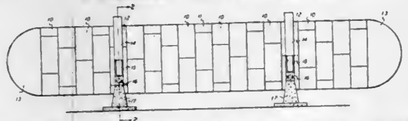
maintaining said lifting effects in hydraulic balance during said joining step to provide uniform support for said cylinder and prevent distortion thereof; attaching heads to the ends of said cylinder to form a substantially closed tank, and finally lowering said tank into its permanent position by withdrawing said hydraulic effect.

2,287,198

METHOD OF CONSTRUCTING HORIZONTAL CYLINDRICAL TANKS

William A. Sandberg, Los Angeles, Calif., assignor to Lacy Manufacturing Company, Los Angeles, Calif., a corporation of California

Application March 19, 1940, Serial No. 324,838
4 Claims. (Cl. 29—148.2)



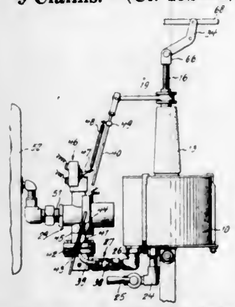
3. In the construction of a horizontal cylindrical tank, the steps comprising: erecting in an axially horizontal position a ring-shaped section of said tank including a stiff circumferential girder; bracing said girder to resist an overturning force; attaching tank shell material at each end of said section and thus forming a cylinder of progressively increasing length, and supporting said cylinder during said construction solely on a foundation bearing only against said girder-including section.

2,287,199

AUTOMATIC STOPPING DEVICE FOR AUTOMOTIVE VEHICLES

Walter A. Schick, Brooklyn, N. Y.

Application August 28, 1941, Serial No. 408,634
9 Claims. (Cl. 192—3)



1. In combination with an internal combustion engine and the intake manifold thereof, a movable member, suction-operated means connected with said manifold for moving said member, a normally closed ignition switch, a normally closed valve in the passage connecting said manifold with said means, means for opening said valve to permit the suction from said manifold to move said member, and delayed action means between said switch and said member for opening said switch at a time interval after said member has begun to move.

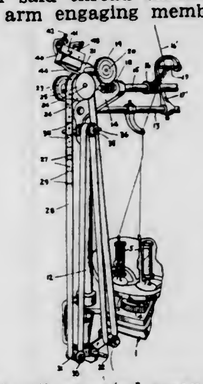
2,287,200

BRAIDING MACHINE

Roger M. Scott, Providence, R. I., assignor to New England Butt Company, Providence, R. I., a corporation of Rhode Island

Application August 13, 1941, Serial No. 406,625
6 Claims. (Cl. 96—19)

1. The combination with a braiding machine for braiding cord ends over cord strands having driving and driven means and stop motion means including a stop motion arm for disconnecting the driving and driven means, of a stop motion actuating means independently of the movement of said thread carriers including a stop motion arm engaging member, a solenoid



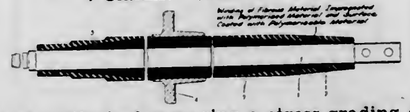
coil, solenoid coil operated means for actuating said stop motion arm engaging member, and means actuable at predetermined points in the braid formation and in response to changes in the tension on the cord strands for energizing said solenoid coil to operate said stop motion means through said stop motion arm engaging member.

2,287,201

ELECTRICAL STRESS GRADING DEVICE

Thomas Robertson Scott and John Krauss Webb, London, England, assignors to International Standard Electric Corporation, New York, N. Y.

Application October 15, 1938, Serial No. 235,183
In Great Britain November 24, 1937
7 Claims. (Cl. 174—143)



1. A method of preparing a stress grading device comprising building up alternate layers of insulation and conductive material around a central member by alternately winding sheets or tapes of fibrous material impregnated with polymerized material around said member and forming a layer of conductive material on said sheets or tape, said impregnated sheets or tapes being in a non-adhesive state before winding, and rendering the surface polymer of the impregnating material tacky and adhesive by applying polymerizable material thereto, and maintaining said polymerizable material at a polymerizing temperature until polymerization occurs whereby said device forms a substantially solid unit.

2,287,202

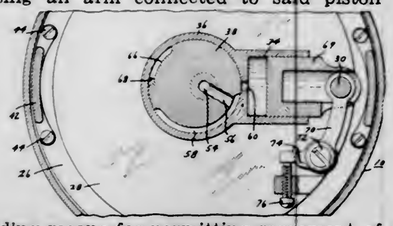
REFRIGERATING APPARATUS

Harry F. Smith, Lexington, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application October 26, 1938, Serial No. 237,089
2 Claims. (Cl. 230—177)

1. A pump including a cylinder, a piston extending into the cylinder, an inlet for said cylinder, an outlet for said cylinder, a connection to said piston capable of yielding under abnormal compression within said pumping cylinder com-

prising an arm connected to said piston and



yielding means for permitting movement of said arm to avert greater compression in the pump.

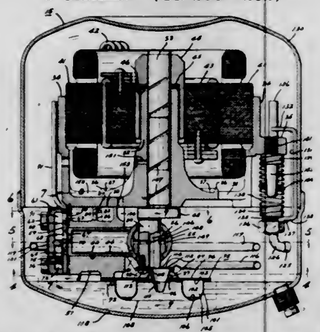
2,287,203

REFRIGERATING APPARATUS

Rolf M. Smith, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application September 29, 1939, Serial No. 297,148

8 Claims. (Cl. 230—232)



1. A sealed unit comprising, a casing having a motor and a compressor directly connected to said motor disposed therein and being resiliently supported therefrom, said casing being under compressor suction pressure, refrigerant conveying means having a connection with said compressor and a connection with said casing, said means including a device carried by said motor-compressor for receiving and muffling refrigerant discharged from said compressor, said means also including a pipe having an end secured to said device and having its other end secured to said casing for directing refrigerant discharged from said compressor to the exterior of said unit, said pipe being in the form of a coil and having a convolution thereof extending around said compressor to provide the pipe with a resilient portion intermediate its secured ends, and means abutting said compressor and applying force to said resilient intermediate convolution portion of the pipe coil at a plurality of widely spaced apart points for preventing same from generating audible sounds.

2,287,204

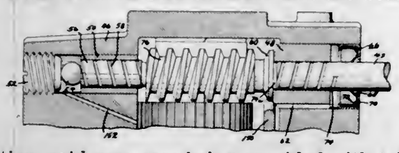
DOMESTIC APPLIANCE

William K. Smith, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application September 30, 1938, Serial No. 232,588

6 Claims. (Cl. 184—13)

3. In combination, a gear case, a worm and worm wheel rotatably mounted in the gear case, said worm being provided with a worm shaft portion, said gear case being provided with a plain bearing portion for rotatably supporting the worm shaft portion, said worm shaft portion being provided with a shoulder fitting against one end of the bearing portion, one of said portions being provided with a generally helical lubricant groove extending between the shaft portion and the bearing portion to said shoulder for feeding lubricant between said shoulder and the bearing



portion, said gear case being provided with lubricant up to the level of said bearing portion and said worm for supplying lubricant to the bearing portion and parts within said gear case, said gear case being provided with a rib cooperating with the worm wheel for raising the lubricant level adjacent said worm shaft bearing portion.

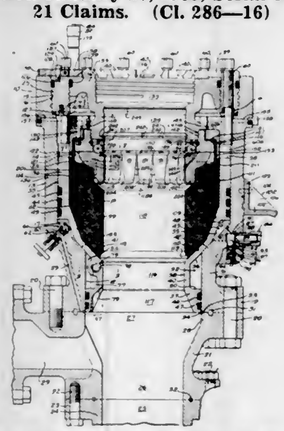
2,287,205

PACKING HEAD

Frederick Stone, Redondo Beach, Calif., assignor to Hydril Company of California, Los Angeles, Calif., a corporation of California

Application January 27, 1939, Serial No. 253,102

21 Claims. (Cl. 286—16)



1. In a packing head for well pipe, a tubular housing adapted to take elongated work through its bore, a radially contractible packer in the housing and adapted to encircle the work, there being a space within the housing and an inlet for introducing fluid under pressure to said space, an increase in the fluid pressure within the space being effective to contract the packer radially about the work, and a safety valve adapted normally to permit flow of fluid through the valve and inlet to and from said space, said valve being adapted to close the inlet by virtue of a sudden reduction of inlet pressure to prevent continued flow of fluid from said space through the inlet.

2,287,206

MULTIPLE CONE DISPENSER

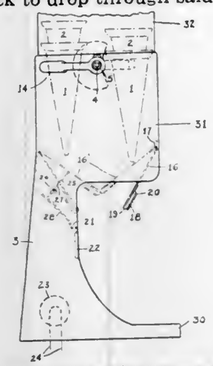
Werd W. Turnbull, Chattanooga, Tenn.

Application August 26, 1940, Serial No. 354,234

4 Claims. (Cl. 312—44)

1. A pastry cup dispenser of the character described comprising a housing, having an opening adjacent its lower end, means disposed within said housing and positioned above said opening

for supporting a stack of nested cones, means for successively releasing the lowermost cone from the stack to drop through said opening, and



doors below said supporting means for engaging the tops of the cones passing through said opening when in open position for supporting them.

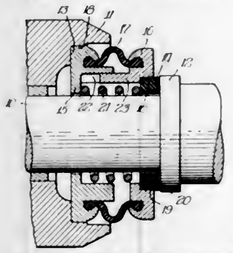
2,287,207

SEAL

Rudolph J. Vedovell, Kenilworth, Ill., assignor to Chicago Rawhide Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application November 28, 1940, Serial No. 367,605

2 Claims. (Cl. 286—11)



1. In an end-thrust seal, two axially spaced centrally apertured front and rear plates, said plates being provided with axially projecting formations which slidingly fit together to form an axially continuous enclosure, a flexible diaphragm connecting said plates outwardly of the axially projecting formations, a sealing ring secured to the front plate at one end of the enclosure, and a coil spring confined within the enclosure and compressed between the rear plate and the sealing ring.

2,287,208

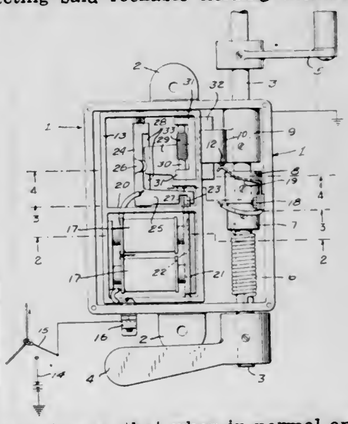
ELECTRIC STOP MOTION CONTROLLER FOR KNITTING MACHINES

Edward Vossen, Brooklyn, N. Y., assignor to Stop Motion Devices Corporation, New York, N. Y., a corporation of New York

Application January 20, 1942, Serial No. 427,424

2 Claims. (Cl. 66—163)

1. In an electric stop mechanism for power driven machines, the combination with a circuit closer governed by conditions in the material operated on of a controller comprising a housing, means of connecting said housing with the machine, opposing apertures in the ends of said housing, a rod passing through said housing and apertures and rotatable axially in said apertures as bearings, means on said rod to transfer its rotary motion to the mechanism of said machine, a spring mounted on said rod and anchored at one end in said rod and at the other end in said housing and exerting on said rod rotary tension in one direction, means of limiting the arc of rotation of said rod, a cam member fixed and mounted on said rod, the rotating portion of said cam being contoured to form a cog member, a rockable holding member pivoted on said housing and cooperating with said cog member, an electromagnet, an armature, means connecting said rockable holding member with



said armature so that when in normal operation the circuit is open and the rod is rotated against said spring to the proper angle said armature through said connecting means engages said rockable member and fixes it in position holding said cog, cam and rod against rotation under actuation of said spring, and when said circuit is closed said electromagnet is energized and shifts said armature into position releasing said connecting means and rockable member and said rod rotates under actuation of said spring and transfers its motion to the mechanism of said machine.

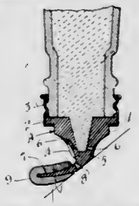
2,287,209

DEVICE FOR DISPENSING FLUID FROM CONTAINERS

Arthur J. Weiss, West Orange, N. J., assignor to Shu-Milk Products Corporation, Passaic, N. J., a corporation of New Jersey

Application May 28, 1941, Serial No. 395,503

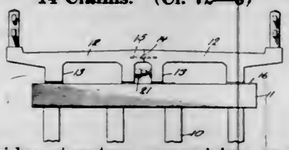
3 Claims. (Cl. 15—139)



1. A device for dispensing and applying liquids, comprising a member having a cylindrical portion with a cap attached thereto, said cap being threaded to enable it to be attached to a container, said member having a tapered portion with flat walls, each of said walls having a longitudinal channel and a transverse slit in the bottom of the channel to enable the dispensing of liquid, a relatively thin tapered spreader integral with the member, said spreader having a

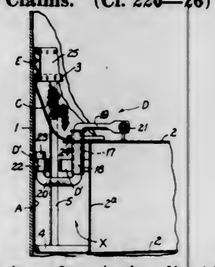
transverse slot immediately above the connection of the spreader with the body member, and fabric attached to and covering the sides of the spreader.

2,287,210
BRIDGE CONSTRUCTION
Arvin S. Wellborn and Harry B. Wall, Little Rock, Ark.
Application November 14, 1939, Serial No. 304,397
14 Claims. (Cl. 72—8)



1. A bridge structure comprising one or more spans each made of span sections, at least one of said span sections being movable laterally of the bridge away from the other, each span section comprising longitudinal girders and a floor section supported thereby, and transverse bents or piers supporting said sections, said girders being of the metal I-beam type, the girder spanning the line of separation of the floor sections consisting of channel irons secured together, said channel irons being secured respectively to the respective span sections.

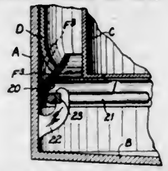
2,287,211
FLOATING TANK ROOF
John H. Wiggins, Chicago, Ill.
Application December 21, 1938, Serial No. 247,031
10 Claims. (Cl. 220—26)



1. In a container for storing liquids, the combination of a side wall, a floating roof, a sealing means for the space between said roof and side wall, comprising a seal adapted to act on said side wall, a supporting means for said seal, a flexible member attached to said seal and to said roof to form a closure for the space at the peripheral edge of the roof, thus forming an annular vapor space between said closure and the liquid in the tank, presser devices within said annular vapor space that move relatively to said seal and force said seal outwardly against said side wall, and an actuating means for said presser devices arranged on the exterior of the roof.

2,287,212
SEALS FOR FLOATING ROOFS
John H. Wiggins, Chicago, Ill.
Application April 1, 1939, Serial No. 265,432
1 Claim. (Cl. 220—26)

A liquid storage apparatus, comprising a tank provided with an upright side wall, a floating roof that normally floats upon and is sustained by the liquid in the tank, a primary seal for the annular space between the side wall and the peripheral edge of the roof, comprising a relatively deep, annular-shaped side wall shoe mounted on the roof and arranged in sliding engagement with the tank side wall, the lower end of said shoe being submerged in the liquid in the tank when there is sufficient liquid in the tank to float or sustain the roof, a supporting means in the lower portion of the tank for sustaining the roof and maintaining it in spaced relation with the bottom of the tank when there is not sufficient liquid in the tank to float the roof, and an auxiliary bottom seal in the lower portion of



the tank that comes into service and cuts off the escape of vapors upwardly through the space between the tank side wall and the annular shoe of the primary seal, when the roof rests upon or is carried by said supporting means, said auxiliary seal comprising a flexible or pliable element joined in a gas-tight manner to the tank side wall, throughout the entire circumference of the side wall and disposed so that when the roof comes to rest on said supporting means, a portion of the roof moves into gas-tight engagement with said flexible or pliable element.

2,287,213
FLOATING ROOF FOR LIQUID STORAGE APPARATUS
John H. Wiggins, Chicago, Ill.
Application May 10, 1939, Serial No. 272,748
1 Claim. (Cl. 220—26)

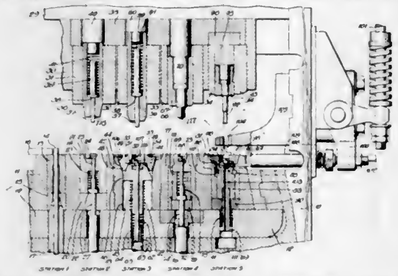


A floating tank roof of relatively great diameter, composed of a deck portion of a single thickness, made up of metal plates joined together, a stiff annular pontoon at the periphery of the roof attached adjacent its upper end to said deck portion, a relatively large diameter pontoon of stiff construction arranged at the center of the roof and attached adjacent its upper end to said deck portion, said pontoons being separated from each other by an annular space that is bridged by the deck portion and the center pontoon being considerably deeper than the annular pontoon and having its top disposed in a considerably higher horizontal plane than the top of the annular pontoon, said deck portion and pontoons being connected together and disposed in such relative relationship that when the roof is floating on the liquid in the tank said deck portion will always be in tension and will cause eccentric loads to be carried from one side of the roof to the other through the plates of said deck portion.

2,287,214
MEANS FOR MAKING ARTICLES HAVING A POLYGONAL CROSS SECTION OR THE LIKE
Richard Lester Wilcox, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a corporation of Connecticut
Application November 10, 1941, Serial No. 418,600
25 Claims. (Cl. 10—85)

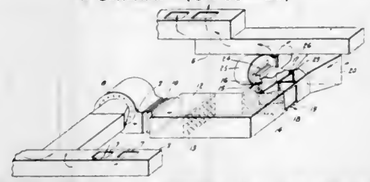
13. Mechanism for producing a nut or similar

blank having a portion thereof substantially cylindrical in cross section and another portion substantially polygonal in cross section comprising in part a die to receive one end of a cylindrical portion of a workpiece, in which the work-



piece is held rigid during the upsetting thereof, and a squeeze die that applies pressure to the workpiece outside of the die and without disturbing the metal of the cylindrical portion.

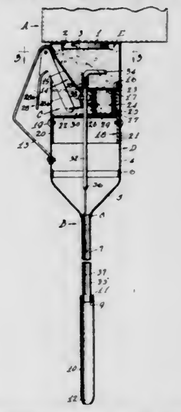
2,287,215
VENTILATING SYSTEM
Alfred O. Williams, Battle Creek, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application November 1, 1939, Serial No. 302,281
4 Claims. (Cl. 98—10)



1. In a duct arrangement for the ventilating system of a rail car, a transverse fresh air duct beneath the car having a normally directed outlet port, a longitudinally extending return air duct transversely offset with respect to said fresh air outlet port beneath the car having an outlet port and passageway opening at right angles to said fresh air outlet port, a mixing chamber common to said ports, a single damper pivoted intermediate its ends between said outlet ports and having the portion on one side of said pivot swinging in said fresh air duct and the other portion swinging across said return air duct outlet port, a third opening in said chamber, an inlet supply duct communicating with said last mentioned opening for conducting air to said car, the construction and arrangement of said fresh air outlet port, said return air outlet port and said damper being such that when the damper is moved to position to permit full flow of air from said return outlet port to said mixing chamber, the fresh air outlet port is partially unobstructed.

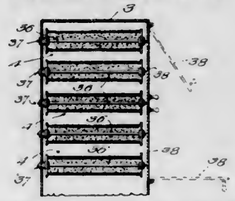
2,287,216
DISPENSER
William Williams, Monterey, Calif.
Application March 4, 1940, Serial No. 322,132
6 Claims. (Cl. 221—119)

1. A dispenser comprising a container for material, a discharge spout extending therefrom, the spout having an enlarged upper portion and a restricted lower portion, the latter being disposed at the outlet end of the spout, valve means in the upper enlarged portion for controlling flow of the material from the container to the discharge end of the spout, and agitating means in the restricted portion of the spout active on the ma-



terial passing therethrough and being operated by the valve means when the material is being valved into said restricted spout portion to prevent clogging of the material therein.

2,287,217
MOISTURE ABSORBING APPARATUS
Malcolm B. Wright, Sr., Hammond, La., assignor of one-half to Sidney Perkins, Hammond, La.
Application February 27, 1939, Serial No. 258,807
2 Claims. (Cl. 183—4)



1. In a drying apparatus, an absorption chamber open at its front, a hinged closure for the chamber, means for circulating air through said chamber, and means in the chamber for removing moisture from air consisting of a plurality of containers arranged in rows with the containers of one row in staggered relation to the containers of adjoining rows, supporting rods extending horizontally in said chamber and each having one end portion secured through the rear wall of the chamber, said containers having foraminous walls whereby air may pass through the containers, tubes carried by said containers longitudinally thereof and fitting about said rods to support the containers therefrom, and means in said containers for absorbing moisture from air passing through the chamber and the containers.

2,287,218
ANTIFOULING COMPOSITION
George H. Young and Peter Gray, Pittsburgh, Pa., assignors to Stoner-Mudge, Inc., Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application January 9, 1941, Serial No. 373,830
3 Claims. (Cl. 260—19)

1. An antifouling composition comprising (1) at least one toxic agent selected from the group

consisting of the lower alkyl, aryl, and alicyclic substituted phenols in which the substituting group contains no more than 6 carbon atoms, together with their chlorinated derivatives; (2) at least one toxic agent selected from the group consisting of the pyridine and benzopyridine cyclic nitrogen coal tar bases and their lower alkyl-substituted homologs in which the substituting group contains no more than 6 carbon atoms; (3) at least one toxic agent selected from the group consisting of the aromatic unsaturated mono-aldehydes containing one double bond in the sidechain carrying the aldehyde group together with their lower alkyl nuclear-substituted homologs in which the substituting group contains no more than 6 carbon atoms; (4) a permeable resinous organic film-forming vehicle; and (5) a volatile organic solvent for the whole composition.

2,287,219

PROCESSES OF HYDROGENATING NITRILES

Hobart P. Young, Jr., Winnetka, and Carl W. Christensen, Chicago, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application March 27, 1939, Serial No. 264,478
8 Claims. (Cl. 260—583)

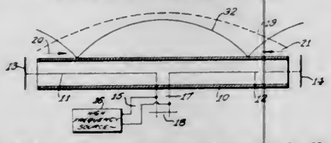
1. The process of preparing aliphatic amines having at least six carbon atoms which comprises catalytically hydrogenating a liquid mixture composed of the corresponding fatty acid nitrile in the presence of an aqueous solution of an alkaline-reacting material in sufficient quantity to maintain free hydroxyl ions in the mixture.

2,287,220

TRANSMITTING ANTENNA

Andrew Alford, New York, N. Y., assignor to Mackay Radio and Telegraph Company, New York, N. Y., a corporation of Delaware

Application April 9, 1941, Serial No. 387,653
12 Claims. (Cl. 250—33)



1. A radio antenna comprising a hollow conductor means extending from a position adjacent to a feeding point to a more distant point, an inner conductor means arranged within the hollow of said hollow conductor means, extending throughout the length and slightly beyond the distant end thereof, means for coupling the distant ends of said hollow conductor means and said inner conductor means with one another, and means for supplying energy to at least one of said conductor means at said feeding point.

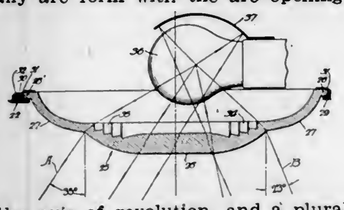
2,287,221

LIGHTING FIXTURE

Henry G. Alm, Elkhart, Ind., assignor to The Adlake Company, a corporation of Illinois

Application August 5, 1939, Serial No. 288,543
5 Claims. (Cl. 240—106.1)

1. A lens of the class described having an outer surface defined as a surface of revolution generated by revolving about an axis a line lying in a single plane and comprising a straight line terminating at each end in an arc bending toward the axis of revolution, and an inner surface defined as a surface of revolution generated by revolving about an axis a line lying in a single plane and made up of a central portion of substantially arc form with the arc opening away



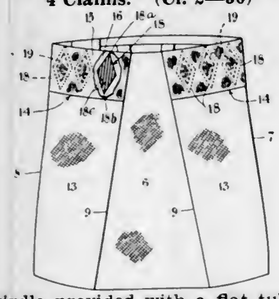
from the axis of revolution, and a plurality of steps extending beyond the end of the central portion and lying on the circumference of a circle the curvature of which is toward the axis of revolution.

2,287,222

FOUNDATION GARMENT

Louis J. A. Amyot, Quebec, Quebec, Canada

Application May 26, 1941, Serial No. 395,176
4 Claims. (Cl. 2—36)



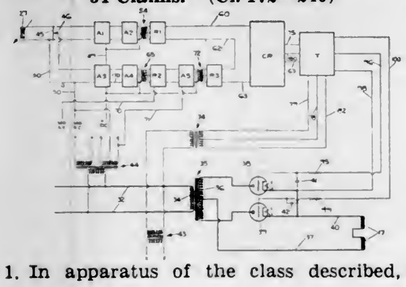
1. A girdle provided with a flat tubular stiffening band portion at the upper edge thereof and a plurality of diamond shaped stiffening elements contained within said band portion, each diamond shaped stiffening element comprising a piece of textile fabric presenting a pointed upper end adjacent the top of said band portion and a pointed lower end adjacent the bottom of said band portion, said piece of fabric being provided with a plurality of vertically extending stiffening cords, the number and stiffening effect of which is greatest across the intermediate or widest portion of the fabric.

2,287,223

VIBRATING APPARATUS CONTROL

Clyde W. Baird, Columbus, Ohio, assignor, by mesne assignments, to The Traylor Vibrator Company, a corporation of Colorado

Application October 2, 1939, Serial No. 297,622
34 Claims. (Cl. 172—240)



1. In apparatus of the class described, the

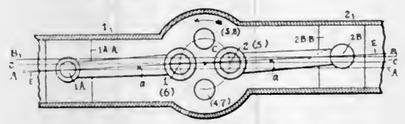
combination with a vibratory motor including a vibrated member for doing work on material, of electromagnetic means for vibrating said member, electrical means operable by vibration of said member to provide a fluctuating voltage proportional to the amplitude of vibration thereof, a power circuit for said electromagnetic means including a gaseous electron discharge tube having an element for controlling the conductivity thereof, and means operable in response to the voltage provided by said electrical means for controlling said conductivity controlling element for determining both the frequency and amperage of the current delivered to said electromagnetic means.

2,287,224

INTERNAL COMBUSTION ENGINE

Jean A. H. Barkeij, Altadena, Calif.

Application May 9, 1939, Serial No. 272,559½
12 Claims. (Cl. 123—56)



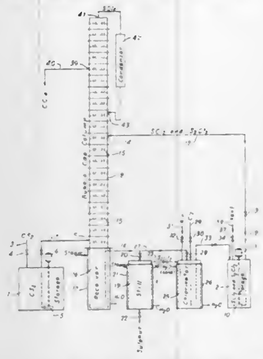
1. In an internal combustion engine having four cylinders arranged in two planes around the crankshaft alternately in staggered relation, said crankshaft having only two crankpins, the connecting rods of the pistons of the cylinders **1** and **2** being arranged side by side on one crankpin, and the connecting rods of the pistons of cylinders **3** and **4** arranged side by side on the other crankpin, said crankpins so arranged that the pistons in cylinders **1** and **3**, and those in cylinders **2** and **4** reach their top dead center position simultaneously with an interval of 180°, said two groups of cylinders arranged at 180°, the axis of said crankshaft offset an equal amount from said two cylinder planes and on that side of both cylinder planes on which the connecting rods of all pistons approach the axes of said cylinders.

2,287,225

PRODUCTION OF CARBON TETRACHLORIDE

Joy E. Beanblossom, Niagara Falls, N. Y., assignor to Hooker Electrochemical Company, Niagara Falls, N. Y., a corporation of New York

Application November 20, 1940, Serial No. 366,427
10 Claims. (Cl. 260—664)



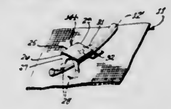
2. The process for production of carbon tetrachloride which comprises causing carbon disulphide to rise through a lower reaction zone of a column reactor to a higher reaction zone of said column, in vapor phase; there chlorinating the carbon and sulphur substantially completely out of it, producing carbon tetrachloride and sulphur monochloride; causing the sulphur monochloride to descend in said lower reaction zone in liquid phase, counterflow with respect to more carbon disulphide rising therein in vapor phase, producing more carbon tetrachloride and liberating sulphur; causing the free sulphur to descend in said lower reaction zone; causing the carbon tetrachloride to rise in said lower reaction zone and, together with the carbon tetrachloride produced in said higher reaction zone, to rise in said higher reaction zone, in vapor phase; and withdrawing free sulphur from below said lower reaction zone and carbon tetrachloride from above said higher reaction zone.

2,287,226

SECURING MEANS

Samuel S. Bernstein, Los Angeles, Calif., assignor to B. and F. Corporation, a corporation of California

Application November 18, 1940, Serial No. 366,100
7 Claims. (Cl. 24—85)



1. A fastener formed of metal for use in attaching a section of a coil spring or the like to a supporting member comprising an intermediate portion adapted to be disposed closely adjacent and longitudinally of a section of the spring to be attached, a forward portion adapted to straddle the spring section and extending away from the plane of the intermediate portion and terminating in a pair of curved prongs adapted to engage the supporting member, and a rear portion extending away from the plane of the intermediate portion on the same side thereof as said forward portion and adapted to engage the spring section.

2,287,227

COMPOUND OR ALLOY FOR COATING WELDS

Clinton Bowsher, Lima, Ohio, assignor to The Artkraft Sign Company, Lima, Ohio, a corporation of Ohio

No Drawing. Application April 12, 1941, Serial No. 388,493
3 Claims. (Cl. 75—166)

3. An alloy having a melting point of less than 850° F. and adapted to be spread when applied as a cold stick to a heated metal surface to form a homogeneous coating thereon which tenaciously adheres to the metal surface, said alloy comprising by weight approximately 6½ to 22 parts zinc, 7¼ parts bismuth, 12½ parts tin, ¾ part metallic mercury and 57½ to 73 parts lead.

2,287,228

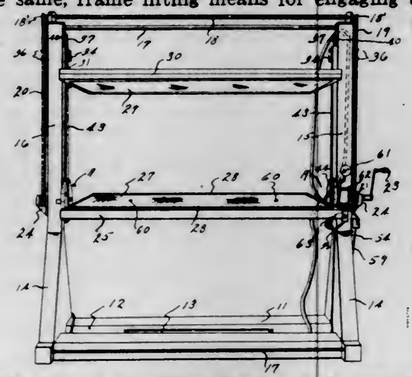
PRINTING FRAME

James T. Campbell, Highland Park, Mich.

Application January 24, 1941, Serial No. 375,728
19 Claims. (Cl. 95—76)

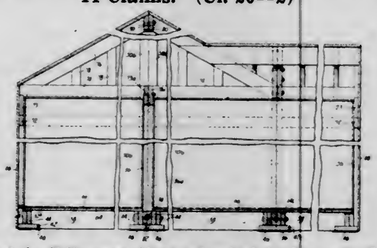
1. In a vacuum printing mechanism, supporting means, a blanket frame and a cooperating air sealing glass frame, guide means secured to said frames and rotatably mounted on said sup-

porting means, and adapted to slidably engage the same, frame lifting means for engaging the



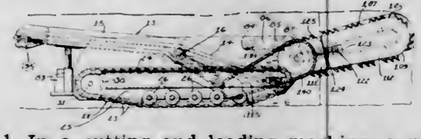
guide means of either frame, and operative means joined to said lifting means.

2,287,229
BUILDING CONSTRUCTION
Miles H. Carpenter, Merrick, N. Y., assignor to Duramore Buildings, Inc., Brooklyn, N. Y., a corporation of New York
Application January 27, 1941, Serial No. 376,023
11 Claims. (Cl. 20—2)



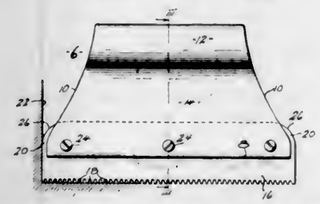
1. A building section adapted to be completely prefabricated apart from and transported to the building site and there joined with at least one more similar section to form a completed building, said section comprising a generally rectangular base frame in the form of an inverted T beam, a floor secured directly onto the stem surfaces of said frame, and at least two adjacent vertical outside walls secured to said frame and to each other, said walls fitting within the outer angles of said T beam frame, having face contact of the inner sides of the walls against the vertically rising stem and end contact against the head of the inverted T.

2,287,230
CUTTING AND LOADING MACHINE
Frank Cartlidge, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application January 11, 1941, Serial No. 374,029
12 Claims. (Cl. 262—9)



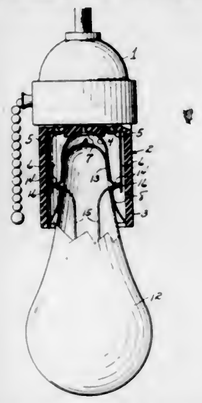
1. In a cutting and loading machine, a pair of spaced apart cutter chains guided for orbital movement in parallel spaced vertical planes, a plate disposed between said cutter chains, and material carrying flights connected between said chains and movable along said plate to form a conveying means for conveying the material cut by said chains.

2,287,231
PASTE SPREADER
Murinda M. Cathcard and Harry H. Cathcard, Independence, Mo.
Application December 30, 1940, Serial No. 372,276
5 Claims. (Cl. 91—62.5)



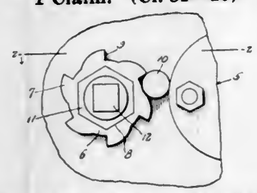
1. A spreader of the character described comprising a resilient strip having a serrated edge; a U-shaped holder, formed of stiff material rebent upon itself along a medial transverse line, for the strip; and means for clamping the strip between the free edges of the legs of said holder with the serrated edge thereof projecting beyond the confines of said holder.

2,287,232
ELECTRICAL CONNECTOR
Anna E. Connors, Portland, Oreg.
Application March 24, 1941, Serial No. 384,992
1 Claim. (Cl. 173—328)



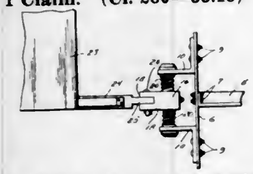
A socket for the reception of an electrical device in which the circuit carrying conductors terminate in contacts formed on radially disposed diametrically arranged projections, comprising a body, a cylindrical skirt formed on said body, a substantially bell shaped cup member within the skirt and having its small end innermost and fixed centrally to the body, said cup member being provided with diametrically opposed bayonet slots for receiving said projections, and a pair of spaced parallel spring strip contact members fixed to the body and extending therefrom for disposal between the skirt and the cup member and registering with the slots for disposal in the path of the contacts of said device.

2,287,233
NUT HOLDER
Perl E. De Ford, Twin Falls, Idaho, assignor of one-half to P. H. Detweiler, Twin Falls, Idaho
Application January 24, 1940, Serial No. 315,446
1 Claim. (Cl. 81—10)



A device of the character described for blocking rotation in one direction of a nut frozen on a bolt comprising a disc apertured to fit over said nut in different angular positions and having peripheral teeth thereon, a relatively stationary abutment spaced radially outwardly from said disc, and a removable cylindrical chock insertable between a pair of contiguous teeth and said abutment, said chock fitting part way in between the contiguous teeth and extending radially outwardly of the same a distance greater than the distance between the addendum circle of the teeth and said abutment.

2,287,234
TRAILER HITCH
Gilbert D. Ducharme, Detroit, Mich.
Application June 17, 1941, Serial No. 398,470
1 Claim. (Cl. 280—33.15)

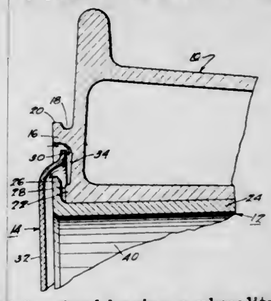


In a trailer hitch, an elongated plate adapted to be attached at one side thereof to a lead vehicle in upended vertical position, a pair of L-shaped brackets fixed to the other side of said plate and having horizontal arms extending laterally from the plate in vertically spaced relation, a post fitted endwise between said arms and fixed thereto, a rectangular hitch block extending lengthwise from said post and having a bored end slidably and rotatably mounted on said post and a bifurcated opposite end for connection to a trailer, a pair of coil springs sleeved onto said post intermediate said block and said arms, respectively, to exert tension against opposite sides of said block and thereby cushion sliding movement of the block in opposite directions, and means to vary the tension exerted by said springs independently.

2,287,235
PEST CONTROL
Robert B. Flint, Wilmington, Del., and Frank H. Kaufert, St. Paul, Minn., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 27, 1940, Serial No. 342,684
24 Claims. (Cl. 167—30)

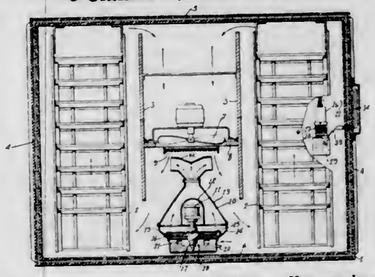
1. A pest control composition useful for controlling fungi, insects, bacteria and like organisms which contains as an active ingredient a cupric chelate of an ortho-carbonyl phenol in which the carbonyl substituent is selected from the class consisting of hydrogen and a monovalent aliphatic radical which characterizes the carbonyl group as a carbonyl group of a ketone or ester.

2,287,236
AIRPLANE WHEEL
Frederick C. Frank, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application January 12, 1940, Serial No. 313,506
6 Claims. (Cl. 301—6)



1. A vehicle wheel having a plurality of annular bosses forming between them a recess external to the wheel, and a cover plate terminating in the recess formed between the bosses, said bosses being substantially L shaped in cross section.

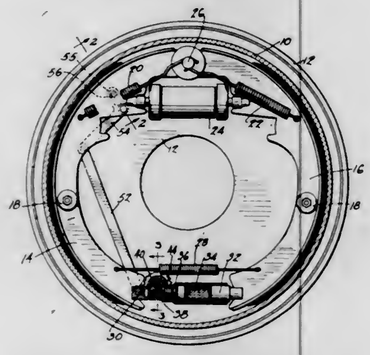
2,287,237
HUMIDIFIER AND CONTROL FOR INCUBATORS
Charles F. Gedge, Springfield, Ohio, assignor to The Buckeye Incubator Company, Springfield, Ohio, a corporation of Ohio
Application August 14, 1939, Serial No. 290,050
6 Claims. (Cl. 236—44)



5. In an incubator, a moisture dispensing device comprising a rotatable moisture spraying means, electrical means for rotating said spraying means, means for circulating air through and around the incubator trays in the incubator, means driven by said means for rotating said spraying means for circulating air through said spraying means, a mercury wet bulb thermometer having the bulb thereof disposed within the incubator so positioned therein that the air circulated within the incubator will impinge upon the bulb of said thermometer, wick means for supplying moisture to the bulb of said thermometer, contacts in said thermometer adapted to be electrically interconnected by the mercury therein due to a change in height of the mercury column caused by changing conditions of the circulating air which impinges upon the bulb of said thermometer, relay means for controlling

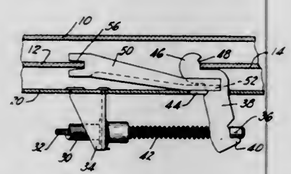
current flow to the electrical means for driving said spraying device, and a sensitive relay operated by said current flow through said mercury thermometer, said sensitive relay controlling current flow to said first mentioned relay to control the operation thereof and thus control the operation of the electrical means for rotating said spraying means.

2,287,238
BRAKE
Rudolph A. Goepfrich, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application November 20, 1939, Serial No. 305,270
7 Claims. (Cl. 188—79.5)



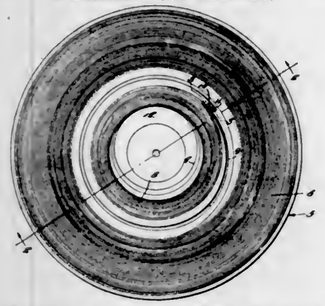
1. A brake comprising a plurality of brake shoes, anchoring and applying means between the ends of the shoes at one side of the brake, and a wear adjustment embodying a shoe connecting device opposite the anchoring and applying means including parts spaced apart by mercury, for increasing the effective length of said device with a substantial rise in temperature, and automatic means for actuating the adjustment when brake-applying movement exceeds a predetermined amount.

2,287,239
BRAKE
Rudolph A. Goepfrich, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application October 19, 1940, Serial No. 361,863
5 Claims. (Cl. 188—78)



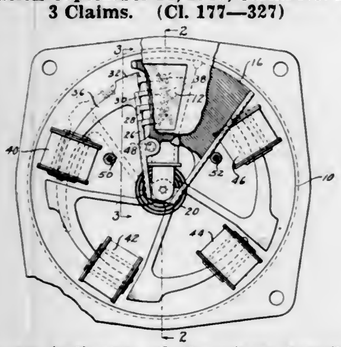
1. In a brake having a support member associated therewith, brake applying means comprising a lever extending through an opening in the support member, and a thrust link adapted to be moved under the influence of the said lever, the thrust link having a flange at least partially covering the opening in the support member.

2,287,240
PHONOGRAPH RECORD
Guy E. Haltenhof, Columbia, Ill., assignor of ten per cent to Fridolin Bersche, Waterloo, Ill., and thirty-nine per cent to Leo A. Weilbacher, Columbia, Ill.
Application May 14, 1941, Serial No. 393,435
3 Claims. (Cl. 274—42)



1. A phonograph record of the disk type having spirally arranged sound grooves in its surface, a second record disk secured to the upper surface of the first disk and also having sound grooves in its upper surface, said second record having a spirally formed peripheral edge portion defining a radial projection having a circumferentially extending tapering surface, and a guide groove leading from the sound grooves of the first disk to the sound grooves of the second disk across said tapering surface.

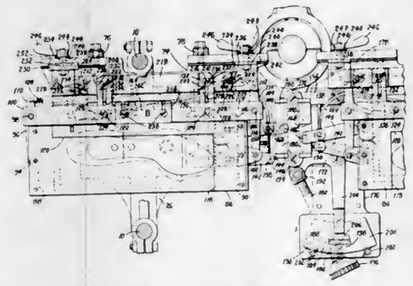
2,287,241
INDICATOR
Theodore W. Hallerberg, Chicago, Ill.
Application September 14, 1940, Serial No. 356,810
3 Claims. (Cl. 177—327)



1. In an indicator of the class described, a movable translucent color screen having a plurality of differently colored sections, a plurality of independently movable armatures, each armature carrying indicia, a solenoid associated with each armature, a light source, means normally urging the color screen in one direction so as to bring one of the color sections in front of the light source, means urging said armatures in the opposite direction, each solenoid when energized drawing its respective armature out of the position to which it is urged, means carried by the color screen in position to be engaged by any one of the armatures when its respective solenoid has been de-energized and thus to move the color screen so as to move said one color section out of position and bring another color section in front of the light source, said armature urging means being sufficiently strong to overcome

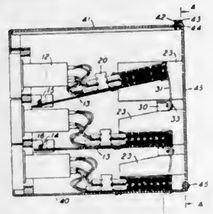
the color screen urging means, and said indicia being moved to a position in line with the light source and said color screen only in the deenergized condition of the solenoid whereby the particular armature which has caused said color screen to be moved may be identified.

2,287,242
MACHINE FOR SHAPING SOLES
Fred V. Hart, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application July 29, 1940, Serial No. 348,079
21 Claims. (Cl. 12—21)



1. In a machine for shaping soles, the combination with devices relatively movable to apply shaping pressure to a sole, of means for supporting a sole in position to be acted upon by said devices but initially out of contact therewith, said means comprising a member of greater area than the sole and located between said devices in position to receive a sole and having formed thereon gaging surfaces arranged respectively to engage the edge face of the sole at an end and at one side to locate the sole lengthwise and laterally of said shaping devices, and means for adjusting said sole supporting means to vary the location of the gaging surfaces thereon relatively to the shaping devices to accommodate soles of different styles and sizes.

2,287,243
ELECTRICAL SHIELDING APPARATUS
Charles A. Hebert, New York, N. Y., and Anthony J. Wier, Elizabeth, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 19, 1940, Serial No. 346,288
5 Claims. (Cl. 175—307)



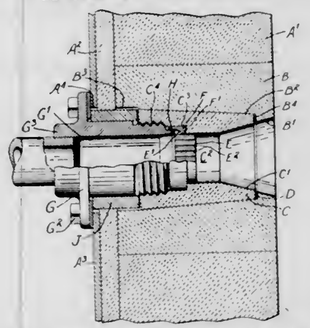
1. An apparatus rack comprising standards, apparatus mounting plates secured to said standards, rows of apparatus affixed to said plates, shielding means disposed between rows of said apparatus, and means to support said shielding means in different pivotal positions relative to the rows of said apparatus between which said shielding means is disposed.

2,287,244
CATALYTIC COMPOSITION
Heinz Heinemann, Pampa, Tex., assignor to the firm Danciger Oil & Refineries, Inc., Tulsa, Okla.
No Drawing. Application December 19, 1940, Serial No. 370,738
18 Claims. (Cl. 252—199)

1. A catalytic composition containing water, and a metal halide known in anhydrous condition as a Friedel-Crafts catalyst, admixed with an oxygen containing compound of antimony selected from the group consisting of antimony compounds obtained by hydrolytic decomposition in aqueous solution, of a water-soluble compound of antimony, oxides and oxide hydrates of antimony, oxy-acids of antimony, and antimony compounds obtained by acidifying an aqueous solution of a salt of an antimonic acid.

13. A catalytic composition containing water, and zinc chloride, admixed with a precipitate obtained by treating antimony pentachloride with about an equal amount of water, and a solid carrier substance.

2,287,245
FURNACE WALL BURNER
Frederic O. Hess, Philadelphia, Pa., assignor to The Selas Company, Philadelphia, Pa., a corporation of Pennsylvania
Application May 3, 1938, Serial No. 205,681
15 Claims. (Cl. 158—7)

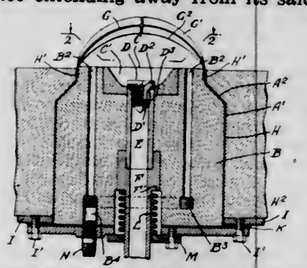


1. The combination with a masonry furnace wall, including a molded prefired block of refractory material permanently mounted in said wall and having one side facing the furnace chamber and having a passage which extends through said wall and block and comprises a burner seat portion formed in said block, and a tubular molded refractory burner body seated in said seat and insertable in and removable from said seat through the outer end of said passage and comprising an orifice wall portion which forms the outer end wall of a combustion space including the inner end portion of said passage and which is formed with a plurality of orifices adapted to discharge distributed jets of a combustible mixture of air and gas into said combustion space.

2,287,246
FURNACE WALL BURNER
Frederic O. Hess, Philadelphia, Pa., assignor to The Selas Company, Philadelphia, Pa., a corporation of Pennsylvania
Application July 29, 1940, Serial No. 348,325
4 Claims. (Cl. 158—99)

1. A gas burner having a combustion space increasing in cross section with the distance from

the bottom thereof, and including means for passing a combustible air and gas mixture into said space including a multiplicity of supply channels opening to said space at distributed points adjacent the margin of a bottom portion of said space, so that the mixture discharged by said channels may form burning jets respectively adjacent and alongside sections of the wall of said space extending away from its said bottom



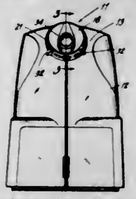
portion, and including refractory material forming the said wall sections so that the latter are adapted to be heated to incandescence by said jets, the discharge end portions of said channels and said wall sections being relatively shaped and disposed to avoid impingement of the inner flame cone portions of the burning jets against said wall sections, and a body of heat conducting material extending across the top of said combustion space.

2,287,247

SIZER CONSTRUCTION FOR PENCIL SHARPENERS

Edward C. Hoffmann, University City, Mo., assignor to Triple "E" Products Company, St. Louis, Mo., a corporation of Missouri

Application October 22, 1941, Serial No. 416,039
3 Claims. (Cl. 120—96)



1. A sizing construction for pencil sharpeners comprising a support, a stationary member connected to the support, a movable member on the support between the support and the stationary member, alined apertures in the support and the stationary member, and spaced apertures in the movable member adapted to be moved into alinement with the aforesaid alined apertures.

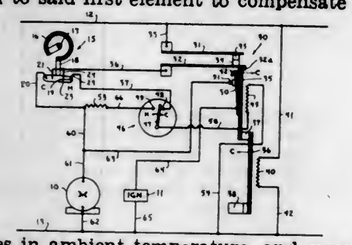
2,287,248

BURNER CONTROL SYSTEM

Gifford I. Holmes, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application March 30, 1940, Serial No. 327,060
12 Claims. (Cl. 236—68)

1. In a burner control system comprising an electrically operable fuel controller and a controlling circuit therefor including a normally closed safety switch, in combination, timing means including a first element movable in a first direction upon heating and in a second direction upon cooling to mechanically open said safety switch when cool and to hold said safety switch closed when hot, a continuously heated second compensating element operatively connected to said first element to compensate it for



changes in ambient temperature, and means for causing heating of said first element when said controlling circuit is open but not when said circuit is closed, said first element being heated as a result of successful combustion.

2,287,249

CHLORINE DERIVATIVES OF BENZYL PHENYL ETHER

Harold S. Holt, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 27, 1940, Serial No. 342,693
3 Claims. (Cl. 260—612)

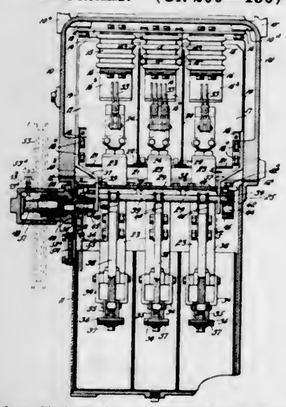
1. A polychlorinated benzyl phenyl ether selected from the class consisting of trichlorobenzyl phenyl ether, trichlorobenzyl o-tolyl ether, trichlorobenzyl 2-acetyl phenyl ether, and trichlorobenzyl 4-tertiary-amyl phenyl ether.

2,287,250

CIRCUIT BREAKER

Emil A. Ileman, Bethlehem, Pa., assignor, by mesne assignments, to The Pennsylvania Company for Insurances on Lives and Granting Annuities, Philadelphia, Pa., a corporation of Pennsylvania

Application June 22, 1940, Serial No. 341,790
16 Claims. (Cl. 200—150)



1. A circuit breaker comprising a top casing, a lower tank in sealed connection therewith and downwardly removable from the top casing, disconnecting switches within the top casing, a support carried by and within the upper portion of the tank and removably connected within the tank, insulators containing conductors secured to and passing through said support, said conductors carrying the movable contacts of the disconnecting switches at their upper ends, make and break contacts at the lower ends of said conductors, and operating means for said last named contacts supported by said support.

2,287,251

MANUFACTURE OF NONPOROUS METAL ARTICLES

William David Jones, London, England

No Drawing. Application July 1, 1940, Serial No. 343,492. In Great Britain July 7, 1939
2 Claims. (Cl. 75—22)

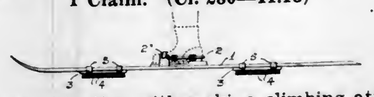
2. A process for the manufacture of non-porous metal articles of high density, high tensile strength and high elongation comprising cold pressing a pulverulent mass of an aluminum alloy consisting of 1.5 to 6% magnesium, 2 to 3.5% manganese, an effective amount up to 5% silicon, an effective amount up to 1% antimony and the balance aluminum at a pressure of more than five tons per square inch to form a compact, and again pressing the compact at a pressure less than that employed in the cold pressing while at a temperature of about 400 to 600° C. to convert the compact into a non-porous body of high density and high tensile strength.

2,287,252

ATTACHMENT FOR SKIS

Berthold Kaufmann, Great Neck, N. Y.

Application April 30, 1940, Serial No. 332,425
1 Claim. (Cl. 280—11.13)



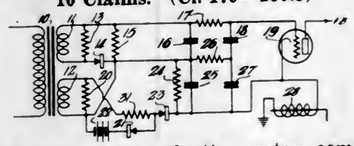
In combination with a ski, a climbing attachment comprising two body members having a flat upper face adapted to directly contact with the lower face of the ski, massed bundles of bristles carried by the body member and depending therefrom a substantial number thereof extending at right angles to the flat upper face of the body member, the bristles being relatively short, closely massed and having the characteristic of flexing out of said right angular position upon depression by the weight of a skier and the ability to spring back to initial position upon release of said weight, and means attaching each body member to the lower face of a ski in such manner that the body members are secured forwardly and rearwardly of the central foot supporting area of the ski.

2,287,253

SOUND RECORDING APPARATUS

Edward W. Kellogg, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application October 17, 1940, Serial No. 361,560
10 Claims. (Cl. 179—100.3)



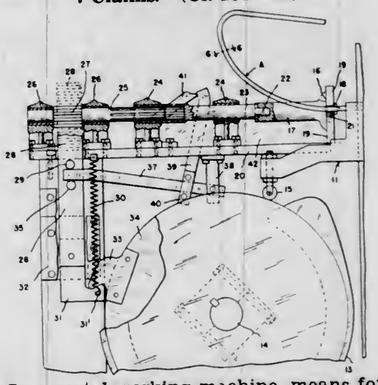
1. A ground noise reduction system comprising a half wave rectifier for providing an envelope current, a second rectifier arranged to rectify waves of opposite polarity to those which said first rectifier rectifies, means for limiting the rectified voltage of the second rectifier, and means for adding the voltages derived from said rectifiers.

2,287,254

METALWORKING MACHINE

Homer G. Kellogg, Detroit, Mich., assignor to Motor Products Corporation, Detroit, Mich., a corporation of New York

Application May 19, 1941, Serial No. 394,216
7 Claims. (Cl. 164—68)



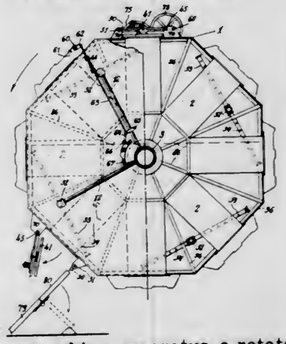
1. In a metal working machine, means for advancing a strip of stock along a predetermined path of travel, a cut-off device supported to one side of the path of travel of the stock for rocking movement and having a cutting portion movable across the path of travel of the stock to sever the stock, a rack supported for reciprocation transversely of the axis of rocking movement of the cut-off device, means for periodically reciprocating the rack, and a connection between the rack and cut-off device operable upon movement of the rack in one direction to simultaneously rock the cut-off device to sever the stock and to move the cut-off device in the direction of advancement of the stock.

2,287,255

ICE MAKING APPARATUS

Carl E. Langgaard, Mineola, N. Y., assignor to George G. Sloan, Brooklyn, N. Y.

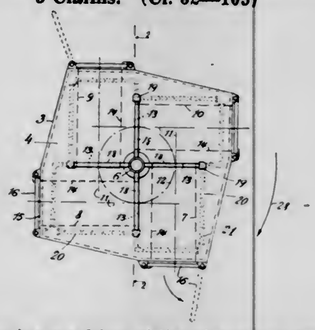
Application June 13, 1941, Serial No. 397,907
14 Claims. (Cl. 62—105)



1. In an ice making apparatus, a rotatable barrel, a plurality of freezing containers, means for supporting the same within said barrel arranged radially about the axis of rotation of the barrel and in rows parallel to said axis, said containers

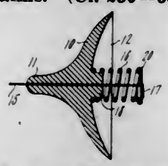
opening outwards from said barrel, an individual cover for each container hinged to said barrel, means for opening and closing all the covers in a row of containers at one time, means for individually adjusting the closure of the covers on the containers, means for applying a refrigerant externally of the containers within the barrel, means for rotating said barrel and means for filling said containers with water.

2,287,256
ICE MACHINE
Carl E. Langgaard, Mineola, N. Y., assignor to George G. Sloan, Brooklyn, N. Y.
Application June 13, 1941, Serial No. 397,908
5 Claims. (Cl. 62—105)



1. In an ice machine of the character described a rotatable barrel-formed housing, a plurality of freezing containers, means for supporting the same within said housing in sets of containers spaced side by side longitudinally of the axis of rotation of said housing, the containers in each set being arranged equidistantly circumferentially of said axis with the bottom of each container in substantially parallel relation to the side of an adjacent container in the same set.

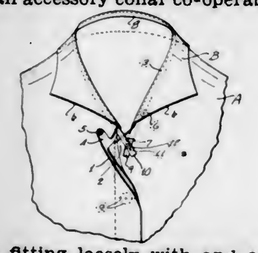
2,287,257
ANTENNA DRAG CUP
William P. Lear, Dayton, Ohio, assignor, by mesne assignments, to Lear Avia, Inc., Piqua, Ohio, a corporation of Illinois
Application April 5, 1940, Serial No. 327,984
12 Claims. (Cl. 250—33)



1. A drag-unit for a trailing antenna comprising a cup having a hollow section, a member extending through said cup in slidable relation therewith, and resilient means operably attaching one end of said member to said cup in a manner permitting said cup to be slidable on said member.

2,287,258
APPAREL GARMENT
Viola A. Levy, New York, N. Y., and Mary Estel Donahue, St. Louis, Mo., assignors to Angelica Jacket Company, St. Louis, Mo., a corporation of Missouri
Application October 29, 1941, Serial No. 416,930
2 Claims. (Cl. 2—139)

1. An apparel-garment comprising a bodice having a neck-opening and provided at said opening with overlapping flaps, one of said flaps being provided with a slit located for concealment by the other flap when in overlapping relation, and an accessory collar co-operable with the



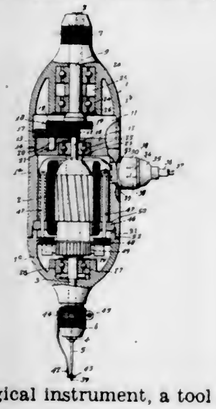
bodice for fitting loosely with and around said opening and provided with co-operable tabs arranged for securement the one to the other, one of said tabs being co-operatively sized for projection through said slit.

2,287,259
COLLAPSIBLE TUBE OR RECEPTACLE
Carl Lindstrom, Chicago, Ill.
Application July 1, 1940, Serial No. 343,319
7 Claims. (Cl. 221—60)



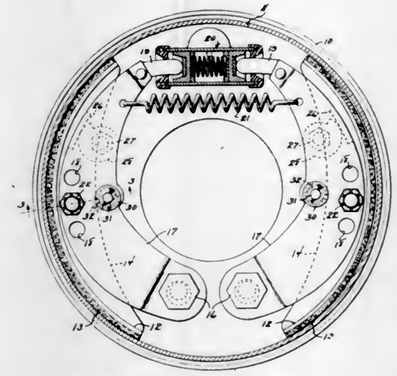
1. A collapsible container comprising a cylindrical tube of thin plastic material of uniform thickness along its entire length, said tube having a tapered portion at one end terminating in a threaded neck, a closure at the other end of said tube, and a metal reinforcing strip embedded within the material of said tube, said reinforcing strip having a threaded portion within said neck, a conical portion in the tapered end of said tube, and legs extending downwardly from said conical portion along opposite sides of the body of said tube.

2,287,260
SURGICAL INSTRUMENT
James Vernon Luck, Los Angeles, Calif.
Application August 20, 1940, Serial No. 353,328
4 Claims. (Cl. 172—36)



1. In a surgical instrument, a tool handle having an elongated shell-form casing to be grasped in the surgeon's hand, an electric motor mounted coaxially within the casing, a chuck at one end of the casing having a shaft in alignment with the axis of the motor and directly connected to the same, a chuck coaxially mounted on the other end of the casing, with a driving shaft extending into the casing in alignment with the motor-shaft, reduction gearing for driving the last-named shaft from the motor, and a flexible connection including an electric cord carrying circuit wires connected to the casing at substantially the middle point thereof so as to leave the surface of the casing between the chucks and the flexible connection, free to be grasped by the surgeon in using the instrument.

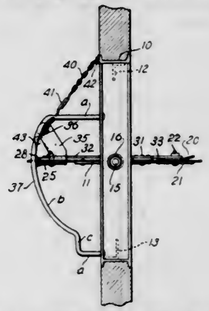
2,287,261
BRAKE SHOE
Wesley E. McColgan, Trinity Center, Calif.
Application August 30, 1941, Serial No. 409,050
4 Claims. (Cl. 188—78)



1. In a brake mechanism, a base plate, a drum, an internal shoe having a webbing provided with a plurality of holes, a two-sided lever having a plurality of holes pivoted near the heel of the shoe to the base plate, and straddling the webbing, a stop member on the lever, compression means for applying force to the end of the lever near the toe of the shoe, a bolt adapted to be inserted in any set of holes, selectively, in the webbing and lever, and a cam-shaped member on the base plate abutting the lever and adjustably coacting with the stop to limit the movement of the lever when the shoe is retracted.

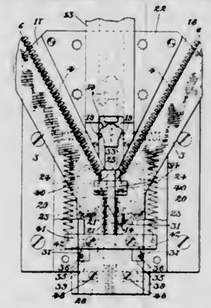
2,287,262
FIRE DAMPER
Fred D. Merry, Toledo, Ohio, assignor to The American Warming and Ventilating Company, Toledo, Ohio, a corporation of Ohio
Application May 7, 1940, Serial No. 333,796
9 Claims. (Cl. 98—1)

1. In a fire damper, a frame forming an opening and having inwardly projecting edge parts, a blade mounted for vertical swinging movements in said frame between said parts, means carried by said blade and including inwardly and outwardly shiftable members at the upper and lower edges thereof and connections therebetween operable by gravity action to move said members into locking coaction with the respective edge parts to lock the blade in closed position when it has moved to such position, means coacting with said first means to retain its members retracted from edge part engaging positions until the blade



is moved to its closed position, and releasable means for holding the blade in open position.

2,287,263
APPARATUS FOR ASSEMBLING SLIDE FASTENER STRINGERS
Peder Nedal, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania
Original application May 26, 1936, Serial No. 81,811. Divided and this application June 24, 1940, Serial No. 342,143
5 Claims. (Cl. 29—84)



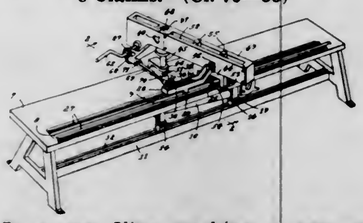
1. Apparatus for assembling pairs of stringers of individual fasteners from continuous strips comprising rows of interlocking fastener members and intervening gap spaces forming a series of connected individual fastener stringers, which comprises a pair of guideways each receiving one of said strips, said guideways converging at a common point into a single guideway for connected pairs of interlocked stringers, means for holding a slider at the converging point of said channels in such position that the branches of the slider channel register with the guideways, said holding means being yieldable to release said slider when a substantial pull is exerted thereon by the fastener stringers, and means automatically feeding sliders in turn to said slider holding means.

2,287,264
PREPARATION OF MONOCALCIUM PHOSPHATE
Sihon C. Ogburn. Jr., Westfield, N. J., assignor to General Chemical Company, New York, N. Y., a corporation of New York
No Drawing. Application July 20, 1940, Serial No. 346,552
7 Claims. (Cl. 23—109)

1. The method of removing iron from monocalcium phosphate liquor which comprises con-

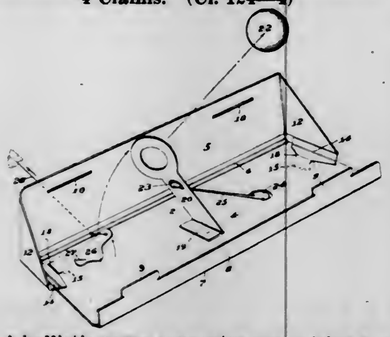
tacting the liquor with an oxygen-containing gas to substantially completely oxidize the iron to the ferric condition and thereby effect the formation of insoluble ferric phosphate, and separating the insoluble ferric phosphate thus formed from said monocalcium phosphate liquor, the pH value of the liquor during the contact thereof with the oxygen-containing gas and subsequent separation thereof from the insoluble ferric phosphate not exceeding about 3.

2,287,265
SAW FILING MACHINE
Oltmann Oltmanns, Baileyville, Ill.
Application April 10, 1941, Serial No. 387,929
8 Claims. (Cl. 76—35)



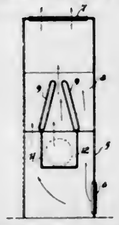
1. In a saw filing machine, a saw support adapted to permit movement of a saw carried thereby, a frame extending transversely relative to the support, another frame movable relative to the first frame adapted to hold a file in working relation to said support, one of said frames having a pair of endless parallelogram-shaped grooves provided therein, followers on the other of said frames working in said grooves to guide the movable frame for movement in a parallelogram path always parallel to the support, means to prevent retrograde movement of the followers relative to the grooves at one end of the reciprocatory movement of the movable frame relative to the stationary frame, and means for reciprocating the movable frame.

2,287,266
BALLISTIC GAME APPARATUS
Robert K. Ostrander, South Orange, N. J., assignor to The Forbes Lithograph Manufacturing Company, Boston, Mass., a corporation of Massachusetts
Application May 7, 1940, Serial No. 333,801
4 Claims. (Cl. 124—4)



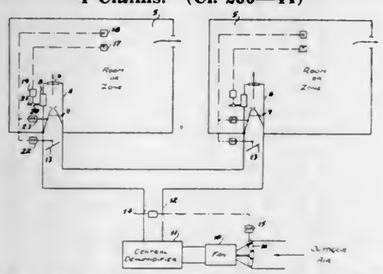
1. A ballistic game apparatus comprising a container having when closed exposing spaced sides, a bottom edge forming portion flexibly connecting said sides, end forming pieces inturned between said sides, and a trap attached interiorly to one of said sides; said container being convertible when open into a trap housing from out of which a ball may be thrown from said trap, said one of said sides forming a bottom wall bearing said trap, the opposite one of said sides angularly turned forming an upright breast wall from behind and above which a ball may be thrown from said trap, and said end forming pieces when outturned forming supports for said breast wall.

2,287,267
HEAT EXCHANGER
Robert T. Palmer, Sharon, Mass., assignor to B. F. Sturtevant Company, Boston, Mass.
Application May 18, 1940, Serial No. 335,966
9 Claims. (Cl. 257—137)



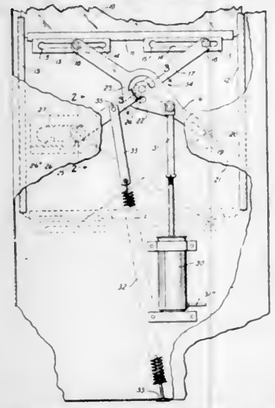
1. In a heat exchange unit having an outlet, a primary air inlet, a recirculated air inlet and an ejector for inducing the flow of air through said recirculated air inlet, with air from said primary air inlet for discharge through said outlet, heat exchange surfaces forming a Venturi air passage in the path of the air discharged by said ejector.

2,287,268
PSYCHROMETRICALLY CONTROLLED AIR COOLING SYSTEM
Robert T. Palmer, Sharon, Mass., assignor to B. F. Sturtevant Company, Boston, Mass.
Application May 18, 1940, Serial No. 335,967
4 Claims. (Cl. 236—44)



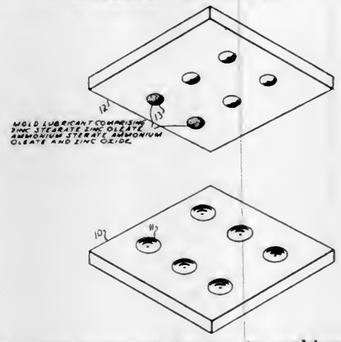
4. An air conditioning system comprising a central source for supplying conditioned air under pressure, a local recirculation unit having an air outlet and a recirculated air inlet in the conditioned space, an ejector in said unit connected to said source for inducing the flow of recirculated air into said inlet through the flow of the conditioned air from said source, and for discharging the mixed air through said outlet, means including local psychrometrically responsive means for varying the volume of air supplied from said source to said ejector, and means for so adjusting said ejector that upon an increase in the volume of conditioned air thereto, its air inducing action is decreased and upon a decrease in the volume of conditioned air thereto, its air inducing action is increased whereby at all times a substantially constant mixed air volume is supplied through said outlet.

2,287,269
MECHANISM FOR IMPARTING RECTILINEAR RECIPROCATING MOVEMENT TO MEMBERS SUCH AS VEHICLE WINDOWS
John B. Parsons, Toledo, Ohio
Application September 4, 1940, Serial No. 355,350
2 Claims. (Cl. 268—126)



1. Means for effecting movement of a member in opposite directions, composed of two arms pivotally connected to have scissor-like movement, means to connect an end portion of one of said arms to the member to actuate the latter, means to pivotally connect the opposite end portion of said arm to a relatively fixed point, means connected to said opposite end portion of said arm to actuate same and thereby the member, means to mount the end portion of the other arm which lies adjacent to the said opposite end portion of the first named arm for sliding and pivotal movement, a spring device connected at one end to said other arm at a point between the pivotal point of the arms and the said end of said other arm, and depending therefrom, and means to connect the opposite end of the spring device to a relatively fixed point whereby said spring device lies in a plane at an acute angle to a vertical line drawn through the pivot of the arms in all positions thereof.

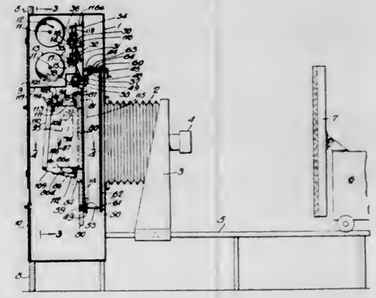
2,287,270
MOLD LUBRICANT AND METHOD OF MOLDING RUBBER ARTICLES
Edward G. Partridge, Stow, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application July 5, 1940, Serial No. 344,137
6 Claims. (Cl. 18—47)



1. A mold lubricant for use in making molded rubber articles or the like, comprising zinc stearate, zinc oleate, ammonium stearate, ammonium oleate, and zinc oxide.

6. The method of making a joined rubber article which comprises semi-vulcanizing two or more component parts of the article in a mold coated with a mold lubricant comprising zinc stearate, assembling the semi-vulcanized component parts, and completing the vulcanization of the assembled structure under pressure, whereby the mold lubricant adhering to the rubber is absorbed in the rubber and a unitary structure is obtained.

2,287,271
PROCESS CAMERA
Frank T. Powers, Glen Cove, N. Y.
Application January 25, 1940, Serial No. 315,519
19 Claims. (Cl. 95—34)

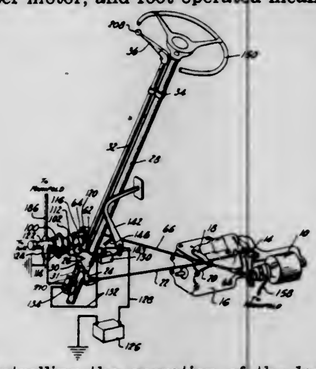


1. A camera including in combination an objective, a source of photosensitive material in strip form, means for feeding variable lengths of the material to the image field of the camera, a support for the variable length of material to be exposed, suction means including perforations on the face of the support for holding the severed material on the support, guiding means adjacent to said support and engageable with the edges of the length to be exposed to bring the length close to the support to give preliminary suction sealing contact between the material and support, means for severing the variable length of material from the remainder of the strip and means for moving the support and the severed material held thereon transversely to the axis of the objective whereby the length to be exposed may be centered with reference to the axis of the objective.

2,287,272
CLUTCH AND TRANSMISSION OPERATING MECHANISM
Harold W. Price and Earl R. Price, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application June 22, 1939, Serial No. 280,610
9 Claims. (Cl. 192—.01)

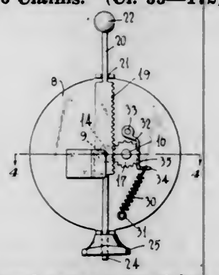
1. In an automotive vehicle provided with a selective transmission and a steering wheel, means including a selector mounted beneath the steering wheel for effecting a rail selecting operation of the transmission, power means for establishing the transmission in gear including a pressure differential operated motor operably connected to the transmission, valve means for controlling the operation of the motor, means for operating the valve including the aforementioned selector and linkage interconnecting the selector and valve, and further including power means comprising a pressure differential operated

motor, a valve for controlling the operation of the latter motor, and foot operated means for in



part controlling the operation of the last-mentioned valve.

2,287,273
TIRE TREAD GAUGE
Michael Rabb, Newark, N. J., assignor to Atlas Supply Company, Newark, N. J., a corporation of Delaware
Application November 29, 1941, Serial No. 421,052
6 Claims. (Cl. 33—172)

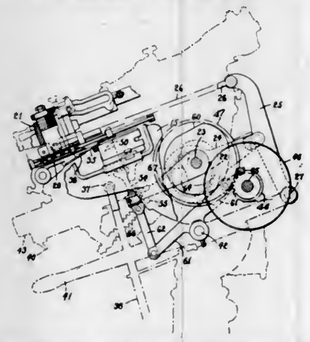


1. A tire tread gauge comprising a casing having a member projecting from the interior to the exterior thereof, a toothed element in the casing connected to said member, a toothed pinion having its teeth meshing with the teeth of the toothed element, a brake operatively connected with the pinion for resisting movement of the latter, an indicator dial in the casing visible from the exterior thereof, a pointer cooperating with the dial, means operatively connecting the pointer to said pinion, and manually operated means cooperating with the toothed element to return the pointer to zero.

2,287,274
PROCESS OF SEPARATING LEAD AND ZINC SULPHIDES
Anderson W. Ralston and Ervin W. Segebrecht, Chicago, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application November 9, 1939, Serial No. 303,712
4 Claims. (Cl. 209—167)

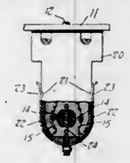
1. The process of separating zinc sulphide from lead sulphide in ores containing the same, which comprises subjecting an aqueous pulp of the ground ore to froth flotation in the presence of an amine compound chosen from the group consisting of unsubstituted primary aliphatic amines containing at least six carbon atoms and water-soluble salts thereof.

2,287,275
TRIMMING MACHINE
William Thomas Buckingham Roberts, Leicester, England, assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application January 28, 1941, Serial No. 376,307
In Great Britain February 29, 1940
4 Claims. (Cl. 12—83.5)



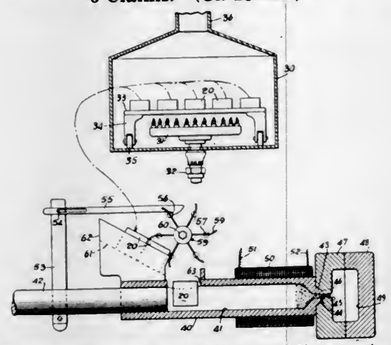
1. A trimming machine comprising a cutting bed having a U-shaped recess to receive the toe end of a partially fabricated shoe on a last, shoe-clamping means arranged to secure the forepart of the shoe in said recess, an articulated U-shaped wiping element arranged to travel heightwise of the last between the toe of the shoe and said surface of said recess, said wiping element comprising a series of connected and relatively movable parts, resilient means arranged to maintain said parts in contact with said surface, mechanism arranged to impart heightwise wiping movement to said wiping element, spreading means arranged to lay the toe margin of the shoe on said cutting bed, and cutting mechanism arranged to sever surplus material from the margin spread on said cutting bed.

2,287,276
LOCKING DEVICES FOR TUBULAR LAMPS
Richard M. Runge, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a corporation of Connecticut
Application January 15, 1941, Serial No. 374,449
8 Claims. (Cl. 173—328)



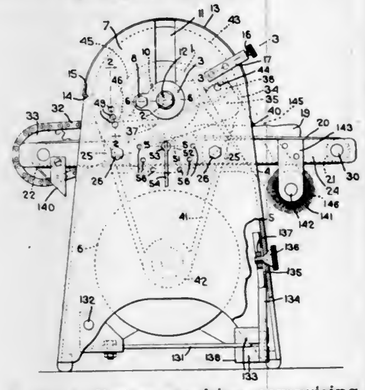
1. In combination, a tubular lamp having parallel terminals at an end thereof, a supporting socket having a single straight passageway through which the two terminals may be inserted or removed, arcuate passageways on opposite sides of the straight passageway through which the terminals may be turned, and spring contacts to engage the terminals when turned from the entrance position and normally hold the lamp in the socket, a plunger insertible into the straight passageway after the insertion of the lamp terminals and extending across the first intersection of the straight and arcuate passageways to prevent turning of the lamp sufficiently to permit its removal, and means to removably hold the plunger in place.

2,287,277
METHOD OF FORMING AND INJECTING THERMOPLASTIC MATERIALS
Charles D. Ryder, Covington, Ky., assignor to The Grotelite Company, Inc., Bellevue, Ky., a corporation of Kentucky
Application July 21, 1939, Serial No. 285,754
6 Claims. (Cl. 18—55)



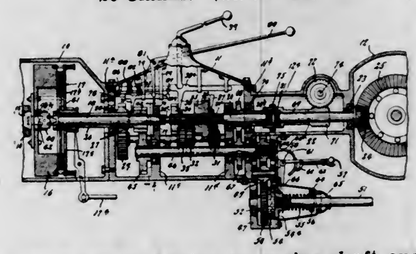
2. In a method of injection molding materials, compressing a predetermined quantity of thermoplastic material to form a solid pellet and placing it in a frangible container, heating the container enclosed pellet to a temperature immediately below the deformation temperature of the material, inserting the heated pellet retained in the container in an injector chamber having a capacity per injection stroke slightly less than the volume of said container, and injecting the material therefrom into a mold.

2,287,278
MEAT SLITTING MACHINE
Joseph P. Spang, Quincy, Mass., assignor to Cube Steak Machine Company, Inc., Boston, Mass., a corporation of Massachusetts
Application May 9, 1939, Serial No. 272,602
5 Claims. (Cl. 17—25)



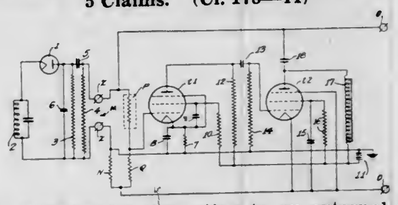
3. A meat-slitting machine comprising a set of rotary meat-treating members, a shaft on which said members are mounted, means to give the shaft a continuous rotative movement, an endless meat-supporting apron for feeding a slice of meat past said meat-treating members, guide rolls around which said apron passes, a sprocket wheel rigid with one of said guide rolls, and means separate from the shaft-rotating means and actuated by said shaft to rotate said sprocket wheel with a continuous feeding movement, said means comprising an idler sprocket wheel situated on the opposite side of said shaft from the first-named sprocket wheel, a sprocket chain passing around said sprocket wheels and a driving sprocket wheel fast on said shaft and which engages and has operative driving connection with the upper side of the upper run of said sprocket chain between the idler sprocket wheel and said first-named sprocket wheel.

2,287,279
CONTINUOUS POWER TAKEOFF DRIVE
Emil F. Stumpf, Valmeyer, Ill.
Application January 16, 1941, Serial No. 374,734
20 Claims. (Cl. 74—11)



1. In a tractor having an engine shaft and a transmission shaft disposed coaxially with each other; a longitudinally movable shaft disposed coaxially between said shafts, means for effecting driving engagement between said movable shaft and said transmission shaft, a tubular shaft revolubly mounted on said movable shaft, a clutch means for connecting and disconnecting said tubular shaft from said engine shaft, transmission mechanism actuated by said tubular shaft for driving said transmission shaft, a power takeoff shaft arranged below said transmission shaft, and power takeoff mechanism operated by said movable shaft and actuating said power takeoff shaft.

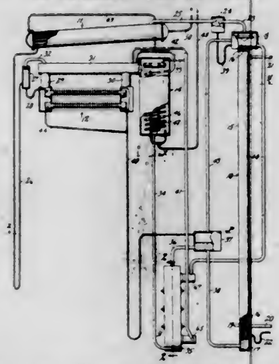
2,287,280
DETECTION ARRANGEMENT AND NEGATIVE IMPEDANCE FOR SAME
Frederick E. Terman, Stanford University, Calif., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application June 30, 1939, Serial No. 282,055
5 Claims. (Cl. 178—44)



1. A device for presenting to an external circuit a current voltage characteristic corresponding to a negative admittance, which comprises an amplifier having an input including a grid lead and a cathode lead and an output, a first impedance joined in series with said external circuit to form a first voltage divider, a connection from the junction between said external circuit and said impedance to the grid lead, a second and a third impedance joined in series with each other to form a second voltage divider, a connection from the junction between said second and third

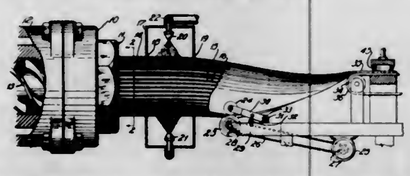
impedances to the cathode lead, and means connecting said two voltage dividers in parallel across said output.

2,287,281
REFRIGERATION
Albert R. Thomas, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application July 30, 1940, Serial No. 348,490
11 Claims. (Cl. 62—119)



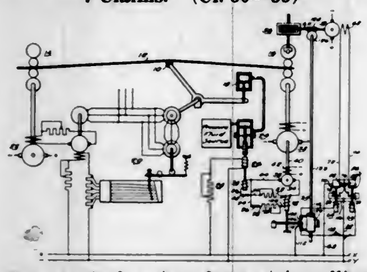
1. In an absorption refrigeration system including a generator and an absorber and in which liquid is raised by vapor-lift action in the generator and the raised liquid flows to the absorber and from the latter to the generator by gravity, a liquid heat exchanger having multiple vertically extending passages for absorption liquid flowing from the generator to the absorber and additional multiple vertically extending passages for absorption liquid flowing from the absorber to the generator, said heat exchanger being so constructed and arranged and interrelated with respect to the rate of flow of liquid effected by gravity that heat exchange in the individual passages controls and promotes movement of relatively stagnant liquid upward and downward in the adjacent individual passages.

2,287,282
METHOD OF MAKING FLAT ARTICLES HAVING GROOVED SURFACES
Nelson E. Tousley, Waban, Mass., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application March 9, 1939, Serial No. 260,752
5 Claims. (Cl. 18—47.5)



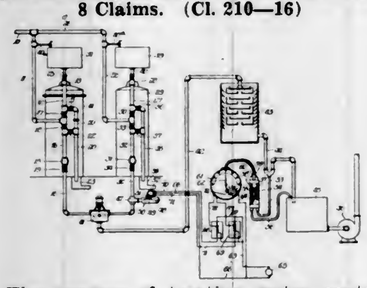
4. The method of making a tread having a multiplicity of flexible tread ribs of rubber-like material, which method comprises extruding the rubber-like material to provide a laterally convex sheet with a multiplicity of longitudinally extending tread ribs on its outer face, and flattening the sheet and thereby providing a tread face with the ribs thereof shifted toward one another to reduce the spacing between the ribs and present the ribs collectively as the tread face.

2,287,283
CONTROL SYSTEM
Joe Weber, Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 14, 1941, Serial No. 393,391
7 Claims. (Cl. 80—35)



1. In a control system for a strip rolling mill, means responsive to variations of the speed of the mill, and means controlled by said speed responsive means for varying the screw-down setting of the mill to thereby compensate for variations in the reduction of the strip due to changes in the speed of the mill.

2,287,284
APPARATUS AND METHOD FOR TREATING WATER
Abraham Sidney Behrman, Chicago, Ill., assignor to Infilco, Inc., Chicago, Ill., a corporation of Delaware
Application August 21, 1937, Serial No. 160,219
8 Claims. (Cl. 210—16)

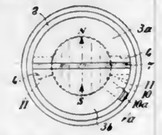


1. The process of treating water containing salts of an alkaline earth and an alkali metal, capable of producing mineral acids by hydrogen exchange, which comprises passing a stream of uniform flow of said water through a hydrogen exchange zeolitic material, passing a second stream of said water through an alkali metal exchange material, mixing said streams, determining the hydrogen ion concentration of the mixed effluent, and controlling the volume of said second stream in accordance with said hydrogen ion concentration determination to produce a substantially constant hydrogen ion concentration as indicated by said determination.

2,287,285
PREPARATION OF POTASSIUM THIOCARBONATE
Wallis R. Bennett, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application August 30, 1940, Serial No. 354,832
4 Claims. (Cl. 23—50)

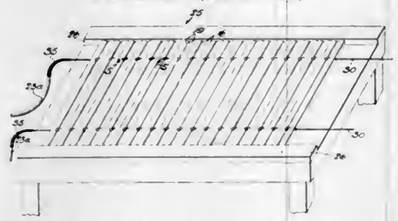
1. A method for the preparation of potassium thiocarbonate which comprises the steps of partially reacting potassium sulfide with a molecular excess of carbon bisulfide in the presence of water, thereafter adding alkali in sufficient amount to adjust the pH of the reaction mixture to above 8.0, and continuing the reaction to completion.

2,287,286
MAGNETIC CHUCK
Julius Bing and Otto Block, Berlin, Germany, assignors to Karl Otto Goettsch, Silvahof, Berne, Switzerland
Application July 27, 1939, Serial No. 286,931
In Germany August 13, 1938
5 Claims. (Cl. 175—367)



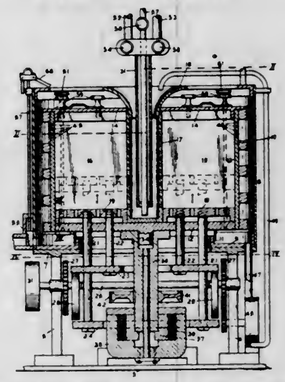
1. A magnetic chuck comprising, a disc-shaped boss adapted to be supported on a machine tool, a disc-shaped plate of non-magnetic material secured to one face of said disc-shaped boss, a plurality of soft iron sectors attached to and extending axially from said non-magnetic disc-shaped plate forming a hollow cylindrical axially extending space between the sectors, said sectors being circumferentially spaced providing diametrically opposite gaps extending throughout the length of said sectors, a cylindrical-shaped permanent magnet polarized transversely of the axis thereof rotatably mounted in said cylindrical space with said sectors forming bearings for the permanent magnet, a disc-shaped pole plate having its central portion extending diametrically therethrough composed of non-magnetic material and its side portions of magnetic material, said plate being secured to and having its magnetic portions in engagement with the free ends of said sectors, the median plane of said central portion coinciding with the median plane of the diametrically opposite gaps between the sectors, means interposed between the disc-shaped pole-plate and an end of said permanent magnet magnetically insulating the pole-plate with respect to said end of the permanent magnet, and means for rotating said permanent magnet with respect to said sectors.

2,287,287
METHOD AND APPARATUS FOR MAKING HINGE JOINTS
Fred S. Boltz, Mansfield, Mass.
Application January 2, 1941, Serial No. 372,802
3 Claims. (Cl. 29—84)



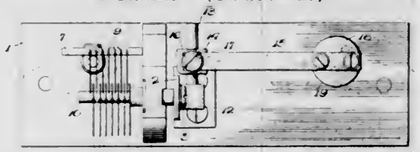
1. A tool for drawing through aligned identical bores of a plurality of members a flexible cord of a size to fit said bores, comprising a stiff rod of sufficient length to be passable through the aligned bores, and a woven sheath attached to one end of said rod and adapted to receive a length of said cord, said sheath being so loosely woven as to be capable of elongation to an extent that the meshes of the sheath may engage the cord therein.

2,287,288
WASHING MACHINE
Michael N. Bonsiakos, San Francisco, Calif.
Application May 13, 1941 Serial No. 393,180
1 Claim. (Cl. 68—23)



In a washing machine, a base, a casing supported above said base, a vertically disposed shaft mounted on said base and extending into said casing, a tub carried by said shaft and concentrically arranged in said casing, partitions formed in said tub to form tub sections, perforations formed in the upper portion of the sides of each of said sections, each of said sections having a removable cover secured thereto, perforated plunger plates positioned in each of said sections, said plates having the same area as the exposed area of the bottom of the sections, and means for reciprocating said plunger plates.

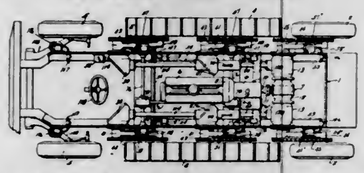
2,287,289
TEMPERATURE RESPONSIVE DEVICE
Joseph M. Brian, Linthicum Heights, Md., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application June 29, 1939, Serial No. 281,985
3 Claims. (Cl. 297—15)



1. In a thermally responsive device, a driven element having a rotatable shaft, an arm attached to said shaft and projecting laterally therefrom, a bimetallic strip comprising a strip of one metal secured to a strip of a dissimilar metal at a plurality of points over their common length, the interface between the two metals defining a plane surface at a predetermined reference temperature, means for mounting said bimetallic strip with said interfacial plane substantially parallel to the axis of rotation of said shaft and for rotating said bimetallic strip about an axis substantially perpendicular to said axis

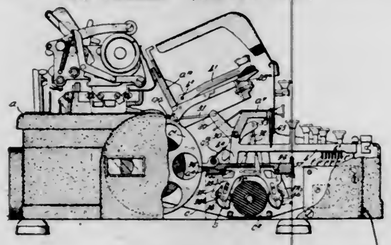
of rotation of said shaft and to said interfacial plane and parallel to the plane determined by the thermally produced movement of said bimetallic strip, and means providing a driving coupling between one end of said bimetallic strip and said arm.

2,287,290
MOBILE UNIT
Floyd de L. Brown, New York, N. Y.
Application June 10, 1939, Serial No. 278,570
10 Claims. (Cl. 180—9.1)



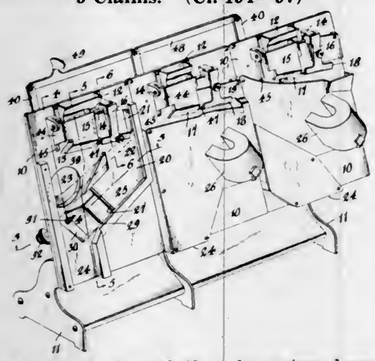
1. In a mobile unit having a transmission, a supporting frame and a main drive mechanism; a plurality of pairs of freely suspended track-connected drive wheel assemblies; power take-off means from the transmission to raise the said pairs of track-connected drive wheel assemblies; said power take-off means comprising a shaft extending longitudinally of the supporting frame, a raising gear provided with a recessed clutch surface and freely spinning on said shaft, a lowering gear provided with a recessed clutch surface and freely spinning on said shaft in a direction opposite to said raising gear, a cone gear fixed to said shaft intermediate said raising and lowering gears, means to selectively engage said cone-shaped gear with the said raising and lowering gears to rotate the longitudinal shaft, a pair of worms mounted on said longitudinal shaft in spaced relation, a pair of transverse shafts supported by the said frame, a worm wheel mounted on each of said transverse shafts and engaging with each of said worms, a crank mounted on both ends of each of said transverse shafts to engage each of said track-connected wheel assemblies when rotated in a counter-clockwise direction; and clutch means to disconnect the track-connected drive wheel assemblies from the main drive mechanism.

2,287,291
KEYBOARD TAPE PERFORATOR
Arthur H. Buckley, Chicago, Ill.
Application April 6, 1939, Serial No. 266,260
10 Claims. (Cl. 164—112)



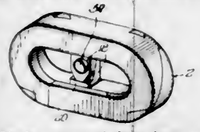
1. The combination of a set of punches for perforating a tape, a set of keys, a power-driven continuously rotatable roll having a friction driving face, shifting devices individually operable by the friction face of said roll for operatively imparting strokes to the punches, comprising levers for engaging the punches, means selectively controlled by the keys for engaging said devices and said roll for operating the punches singly or permutably by the power from the roll, tape-feeding mechanism, and a device engageable with said roll for operating said mechanism by power directly from the roll and means for rendering said device for operating the tape-feed mechanism operative by the set of keys, and comprising a lever concentrically movable with the punch-engaging levers.

2,287,292
COIN CONTROL MECHANISM
Kenly C. Bugg, Farmington, Mo., assignor to The Rudolph Wurlitzer Company, North Tonawanda, N. Y., a corporation of Ohio
Application March 17, 1938, Serial No. 196,468
5 Claims. (Cl. 194—97)



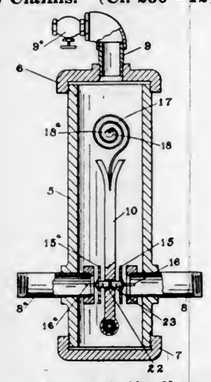
1. A coin device of the character described, comprising a coin chute through which coins are adapted to roll, said chute being downwardly inclined and inclined to the vertical and terminating at its lower end in separate passages for the discharge of genuine and spurious coins, respectively, said passages being disposed side by side in different planes parallel to the vertical incline of the chute and the latter having a lateral opening therein, means adjacent said chute and in advance of said discharge passages for creating a magnetic field, whereby to govern the momentum of travel of the coins according to their permeability and their subsequent discharge through one or the other of said separating passages, and a deflecting member disposed beyond the magnetic field-creating-means and substantially in the plane of said lateral opening for directing the coins into their respective discharge passages.

2,287,293
LINK
John O'Fallon Clark, University City, Mo., assignor to The American Brake Shoe and Foundry Company, New York, N. Y., a corporation of Delaware
Application April 26, 1941, Serial No. 390,458
6 Claims. (Cl. 59—87)



1. A chain link comprising two complementary link members separated in a cleavage plane that includes both the end and side portions of the link and adapted to be assembled by relative lateral sliding of the link members toward one another, each link member having at one side a receiving opening for an element to which the link is to be connected and on its other side a filler for the opening of its complementary link member, each of said link members having lugs spaced from said filler forming positioning abutments for the other of said link members and providing transversely disposed recesses lying substantially in the plane of cleavage adapted to receive the ends of its complementary link member, and means for interlocking the said link members at approximately the central part thereof.

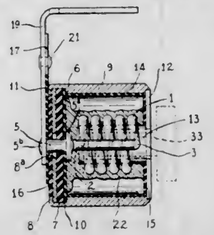
2,287,294
AUTOMATIC WATER TEMPERATURE CONTROL
John J. Coile and Raymond F. Atkinson, Mount Vernon, Ohio
Application January 30, 1941, Serial No. 376,648
3 Claims. (Cl. 236—12)



1. Means for thermostatically controlling the mixture of hot and cold liquids including in combination, a vertically extending casing having in the opposite sides of its lower portion axially alined inlets for hot and cold liquids into said casing and a controllable outlet for the mixed liquid at its upper end, a rigid lever having a forked upper end and fulcrummed at its lower end in the lower portion of said casing, a pair of axially alined valves for said inlets connected with the lower portion of said lever said valves rectilinearly operable in both directions by said lever for varying and controlling the proportions of the flow of the hot and cold liquids into said casing, the length of said lever above the connection of said valves therewith being largely in excess of that from said connection to the fulcrum of the lever, and a thermostatic element adjustably fixed in the upper portion of said casing and engaging by contact only the fork of said lever for actuating and controlling the positions of said valves.

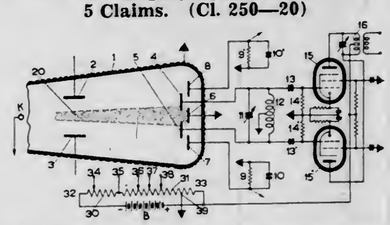
2,287,295
HEATER FOR THERMAL RELAYS
Irvin W. Cox, West Allis, and Edwin W. Seeger, Wauwatosa, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application March 19, 1941, Serial No. 384,036
5 Claims. (Cl. 201—67)

1. An electric heater for a thermally responsive device comprising in combination with a heater coil a metal tube surrounding said coil, an insulating head attached to one end of said tube provided with transverse passages for conductive portions at the ends of said coil to support said coil concentrically with respect to said tube and insulating the same therefrom, a metallic head attached to the other end of said tube and provided with a wall forming a



central well extending into the inside of said coil, and an insulating and heat conducting plastic coating on said coil and covering at least a portion of the inside surface of said metal enclosure, said tube and said heads providing for a substantially air-tight enclosure of said coil.

2,287,296
DISTURBANCE SUPPRESSION IN RADIO RECEIVERS
George Dallos, Ujpest, Hungary, assignor to United Incandescent Lamp & Electrical Company, Limited, Ujpest, Hungary
Application August 23, 1938, Serial No. 226,232
In Hungary April 9, 1938
5 Claims. (Cl. 250—20)

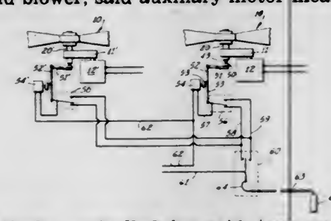


1. An arrangement for suppressing disturbances in radio receiving sets, comprising in combination, a signal receiving channel, an electron ray tube arranged in said channel, means for deflecting the electron beam in said tube, a plurality of collector electrodes adapted to receive said beam in accordance with the degree of deflection, means for blocking the receiver connected to some of said collector electrodes, means for focusing the beam on the collector electrodes, and means for controlling the intensity of the beam in dependency upon the rhythm of the signal.

2,287,297
MECHANICAL DRAFT COOLING TOWER
David Brainard Dewey, Pasadena, Calif., assignor to The Fluor Corporation, Ltd., Los Angeles, Calif., a corporation of California
Application December 20, 1940, Serial No. 371,020
13 Claims. (Cl. 261—109)

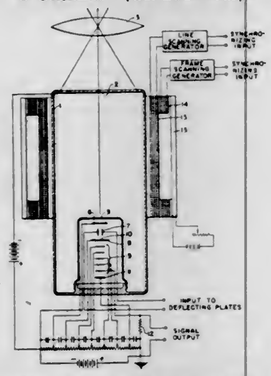
1. In a cooling tower including means for spraying water, a blower for forcing air through said spray and a collection basin for the cooled water, the combination of: motor means for driving said blower at substantially constant speed, a temperature-responsive device in heat exchange relation to the cooled water, and auxiliary motor means independent of said first mo-

tor means for varying the volume of air moved by said blower, said auxiliary motor means being



operatively controlled by said temperature-responsive device.

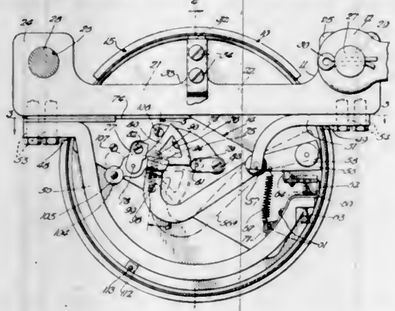
2,287,298
DISSECTOR TUBE ARRANGEMENT
Wolfgang Dillenburger, Klein-Machnow, Germany, assignor to Fernseh G. m. b. H., Berlin-Zehlendorf, Germany
Application October 31, 1940, Serial No. 363,793
In Germany November 28, 1939
3 Claims. (Cl. 178—7.2)



1. An image dissector tube having a photoelectric cathode, an anode shield having a scanning aperture therein of dimensions permitting the electron picture signal current emitted by an elemental area of said cathode corresponding to a single picture element to pass therethrough, an electron multiplier for multiplying said signal current passing through said aperture, electrode means having solid portions for intercepting electrons and an opening for passage of said electron picture signal current therethrough, and means for producing a deflecting field between said scanning aperture and said electrode means for deflecting said electron current upon said solid portions of said electrode means in accordance with a deflecting wave thereby to prevent said current from entering said multiplier and generating a picture signal.

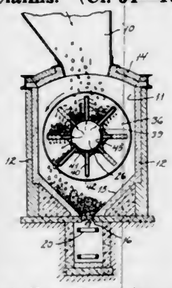
2,287,299
DYNAMOMETER
William C. Dillon, Chicago, Ill., assignor to W. C. Dillon & Company, Inc., Chicago, Ill., a corporation of Illinois
Application June 24, 1939, Serial No. 280,957
6 Claims. (Cl. 265—68)

1. A dynamometer comprising, in combination, means adapted to flex in response to applied force, substantially rigid relatively movable members having relative positions determined by flexure of said means, and indicating means controlled by the relative positions of said movable members, said indicating means including a rack and pinion and a lever for actuating the rack in response to relative movement of said members, means including resilient members



connecting said lever to said rack and to one of said movable members, stops for limiting the movement of said rack, said springs preventing damage to said rack and pinion upon overload and said stops preventing disengagement of the rack and pinion.

2,287,300
CLINKER COOLER
Michael A. Eiben, Cleveland, Ohio
Application August 26, 1938, Serial No. 226,937
9 Claims. (Cl. 34—109)

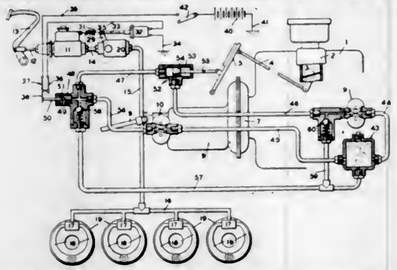


1. A device of the character described, comprising a drum having a fluid passageway therein, partitions extending radially therefrom and providing pockets, the partitions comprising individual tubular members, each of which is in communication with said passageway, and each of which has openings providing communication between the interior thereof and the pockets.

2,287,301
BRAKE CONTROL MECHANISM
Walter R. Freeman, Clayton, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application May 24, 1941, Serial No. 394,969
13 Claims. (Cl. 192—3)

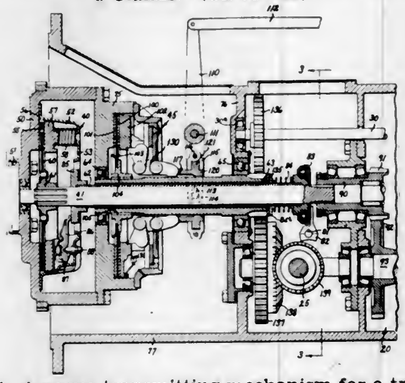
1. In apparatus of the class described, a vehicle provided with a propelling engine, with a torque transmitting connection between the engine and the wheels and with a braking system, means associated with the braking system for holding the brakes applied after being applied by the usual control means, a fluid pressure system including a fluid pressure generator driven by the engine, a second fluid pressure system including a fluid pressure generator driven by an

element of the torque transmitting connection which is operable only when the vehicle is moving, means controlled by the fluid pressure developed by either generator for causing the hold-



ing means to be inoperative, and means for preventing the fluid pressure developed by the engine driven generator from being effective to cause the brake holding means to be inoperative when the vehicle is in stopped condition.

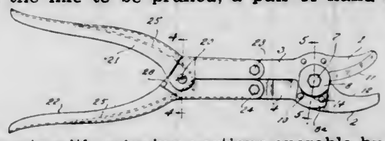
2,287,302
POWER TAKE-OFF
Clayton E. Gifford and John F. Harrison, Marion, Ohio, assignors to The Huber Mfg. Company, Marion, Ohio, a corporation of Ohio
Application December 6, 1940, Serial No. 368,898
2 Claims. (Cl. 74—11)



1. A power transmitting mechanism for a tractor comprising a flywheel, a clutch carried by said flywheel, a power shaft extending from said clutch and actuated thereby, a clutch actuating sleeve surrounding said shaft and slidable longitudinally with respect to the shaft, a second clutch having means connecting the same to said flywheel co-axial with said first clutch, a second power shaft extending from said second clutch and surrounding said sleeve, and bearing means supporting said second power shaft independently of said sleeve.

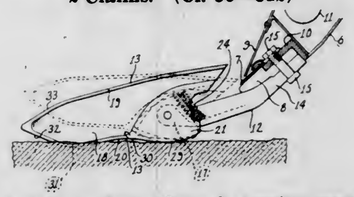
2,287,303
PRUNING SHEARS
Charles Habart and John Lukes, Cleveland, Ohio
Application July 4, 1939, Serial No. 282,769
3 Claims. (Cl. 30—252)

3. A pruning tool comprising a pair of relatively flat sheet metal shear blades having parallel shank portions in edgewise abutting alignment, mutually overlapping apertured ear formations providing pivot portions, plates rigid with respective blades laterally beyond the ear formation of the other, each plate extending in snug abutting relation to the ear formation of the other to hold the blades in shearing relationship, pivot means engaging the apertures of the ear formations, said blades having shear-cutting edges adapted to slide past each other and spaced a considerable distance apart when the shanks are in edgewise abutting contact and oppositely curved to provide a receiving throat for branches and the like to be pruned, a pair of hand grip



elements with gripping portions operable by one hand, pivoted to each other beyond the ends of the shanks from the blade pivot and having arms pivoted to the ends of the shanks lying remotely of the blade pivot for spreading the shanks apart and thereby causing the shearing edges to cut the work as the gripping portions are brought toward each other by hand pressure thereon, and spring means arranged for normally spreading the gripping portions apart to open the blades.

2,287,304
PICKUP DEVICE
Harry A. Hall, Morral, Ohio
Application February 21, 1941, Serial No. 379,967
2 Claims. (Cl. 56—312)

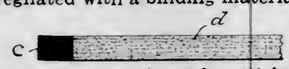


1. A pick-up device for a harvester comprising a supporting member having means for rigidly connecting the same with a downwardly and forwardly inclined cutter bar and having a part arranged to extend forwardly and downwardly from said cutter bar, a pick-up member pivotally mounted near its rear end on the forward portion of said supporting member, and spring means tending to move the forward end of said pick-up member downwardly with relation to said supporting member, the lower surface of said pick-up member having a ground engaging portion near the rear end thereof, a second ground engaging portion near the forward end thereof, and a forward portion extending upwardly and forwardly from said second ground engaging portion, and the upper surface of said pick-up member having a relatively short forward portion extending downwardly and forwardly at a substantial inclination, said upper surface extending rearwardly from said forward portion thereof at a relatively small inclination to a point a short distance beyond the pivotal axis of said pick-up member.

2,287,305
SEPARATOR FOR ELECTRIC ACCUMULATORS
Edgar Haverbeck, Berlin, Germany, assignor to The Electric Storage Battery Company, Philadelphia, Pa., a corporation of New Jersey
Application July 29, 1939, Serial No. 287,387
In Germany September 28, 1938
1 Claim. (Cl. 136—146)

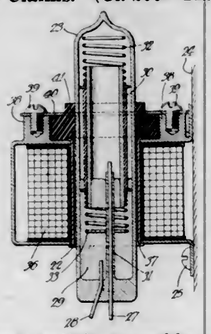
A separator for use in an electric accumulator

comprising, glass-wool and wood particles intermingled and intermeshing one with the other and impregnated with a binding material to form



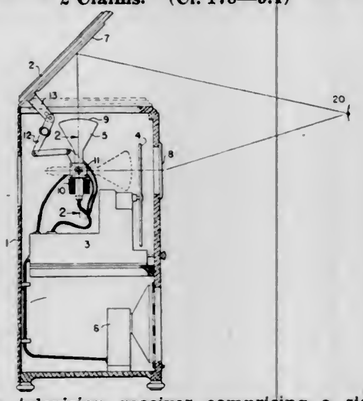
a unitary structure, said wood particles ranging in size from dust to shavings and having constituents beneficial to the negative plates.

2,287,306
MERCURY SWITCH RELAY
Uno C. Hedin and Carl H. Larson, Elkhart, Ind., assignors to The Adlake Company, a corporation of Illinois
Application June 12, 1939, Serial No. 278,710
21 Claims. (Cl. 200—112)



1. A mercury switch assembly comprising a coil having an opening, a vertically positioned switch envelope extending through said coil, electrodes and a quantity of mercury within said envelope, means responsive to said coil for changing the condition of the circuit through the electrodes, and an elastic sleeve frictionally engaging the upper portion of said envelope to maintain said envelope in position relative to said coil.

2,287,307
TELEVISION RECEIVING SYSTEM
Philip J. Herbst, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware
Application October 29, 1940, Serial No. 363,338
2 Claims. (Cl. 178—5.4)



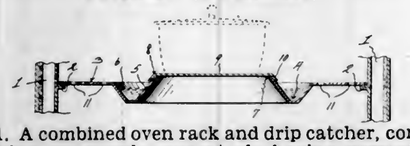
1. A television receiver comprising a signal-reproducing device having a picture-reproducing screen, a color filter disposed in front of said screen when said reproducing device is in a first position, an adjustable reflecting surface normally positioned in a first closed position and adjustable to a second open position opposite said screen when said reproducing device is in a second position, and means operably connecting said reproducing device and said reflecting surface for effecting simultaneous adjustments thereof to their first and second positions.

2,287,308
INTERLOCKING BUCKLE
William Hill, New York, N. Y.
Application September 6, 1939, Serial No. 293,585
1 Claim. (Cl. 24—75)



In a device of the class described, a buckle comprising two members adapted for interlocking engagement, one of said members being at one end formed with a transverse substantially cylindrical recess therein, the outer edge of the wall abutting said recess being formed with a slanting surface, said wall having a dent provided therein, the second member terminating at one end in a crosswise arranged substantially cylindrically-shaped post adapted to slidably engage said recess, said second member being formed with a slanting wall and having a recess between the latter and said post, and a lug arranged in said recess and abutting the post, said lug being adapted to engage the dent in the first member, whereby to lock the latter in interengaging position with the second member, and means provided upon each of said members for engaging a strap, substantially as shown and described.

2,287,309
COMBINED OVEN RACK AND DRIP CATCHER
Richard Howard, Los Angeles, Calif.
Application June 29, 1940, Serial No. 343,291
2 Claims. (Cl. 126—337)



1. A combined oven rack and drip catcher, comprising an annular receptacle having upwardly diverging inner and outer walls, a flat body connected with and extending laterally from the top edge of the outer wall and surrounding the receptacle and having a width sufficient for engagement at its opposite edges with oppositely disposed ovenrack supporting means, said inner wall extending to a height a substantial distance above the plane of said surrounding body, and a cover cap for the central opening of the receptacle adapted to rest upon the top edge of said inner wall and having a surrounding angularly extending flange directed into the receptacle and engaging against the top surface of the inner wall.

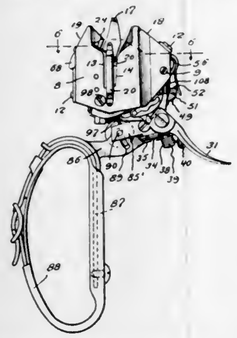
2,287,310
KELLY JOINT MARKER
John H. Howe, Kingsville, Tex., assignor of one-half to Joe C. Ryals, Aransas Pass, Tex.
Application August 7, 1940, Serial No. 351,679
1 Claim. (Cl. 116—135)

A marker for application to an element of an oil well drill string to mark the position of said element relative to the drill rig rotary with the drill bit engaging the bottom of the drill hole, said marker comprising a member positioned on said element above the rotary and engageable with the top of the rotary, said member including a pair of sections each of angle shape, hinge means connecting the two sections together at one end, ears extending outwardly from the other ends of the sections, a bolt passing through the



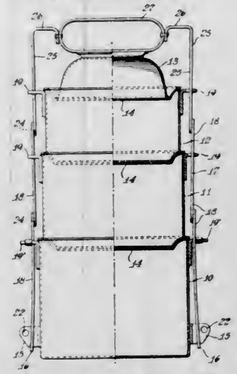
ears for holding the sections together with the sections loosely fitting around the element, the lower edges of the sections being flat to engage the top of the rotary and spring fingers having their lower ends connected with the outer faces of the member, with the upper portions of the fingers bowed inwardly and resiliently engage the element, a finger being placed on each of the four sides of the member.

2,287,311
KNOT TYING DEVICE
William A. Huffstickler, Gastonia, N. C., assignor to Knotters, Incorporated, West Gastonia, N. C., a corporation of North Carolina
Application August 19, 1940, Serial No. 353,283
13 Claims. (Cl. 289—3)



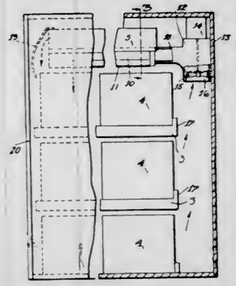
1. In a knotter, the combination of knot-tying instrumentalities, a driving member operatively connected to said instrumentalities, a laterally shiftable trigger releasably connected with said operating member, and means for laterally shifting said trigger to automatically release the trigger from said driving member upon completion of the knot-tying operation.

2,287,312
FOOD KIT
Tayegjee G. A. Kader, Surat, India
Application May 31, 1939, Serial No. 276,745
1 Claim. (Cl. 206—4)



A kit comprising a plurality of receptacles for interfitting with each other, plates forming covers for said receptacles and seats therefor when superimposed thereon, foldable bails for separable engagement with the receptacles when nested and when seated upon said plates, one of said receptacles being of bowl form, a handle carried by said bail, yoke-like handles on certain of the said receptacles and receiving the bail, clips hingedly secured to certain of said yokes to hold the said bail immovably in place when the receptacles are in superimposed relation and adapted to be disengaged when the said receptacles are in nested relation, and keeper and hasp connections between one of the receptacles and said bail, the said plates being nested with relation to each other when the receptacles are nested one within the other and superimposed thereon and held by said bail.

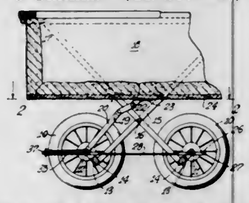
2,287,313
REFRIGERATING APPARATUS
Milton C. Knight, Worcester, Mass.
Application November 9, 1940, Serial No. 365,023
6 Claims. (Cl. 62—72)



1. Refrigerating apparatus comprising, in combination, a casing having walls of thermal insulating material, and providing a chamber having longitudinally extending racks for supporting rows of carriers for perishable food, with said carriers spaced from each other and from the side walls of said chamber, means for supporting a container for a coolant in the upper portion of said chamber above said carriers, and means at one end of said casing for directing a current of air first along the bottom of said

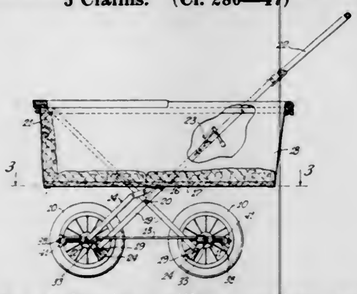
coolant container in an unobstructed path toward the opposite end of said casing, and then downwardly around said food carriers.

2,287,314
RUNNING GEAR FOR COLLAPSIBLE CARRIAGES
Samuel Kroll and Nathan J. Kroll, Chicago, Ill.
Application December 6, 1940, Serial No. 368,754
3 Claims. (Cl. 280—47)



2. In a baby carriage having a collapsible body structure and a chassis comprising a pair of side bars, a wheel bearing axle spanning said side bars and carrying shackle members connected to said collapsible body structure, for transmitting weight applied to said collapsible body structure to said wheel bearing axles, the combination of means for compensating for increased weight applied to said collapsible body structure said means comprising slot formations in said side bars, bearing members for said wheel bearing axle, means movable in said slots for slidably connecting said bearing members to said side bars, and spring means for resisting the sliding movement of said bearing members when weight is applied as aforesaid.

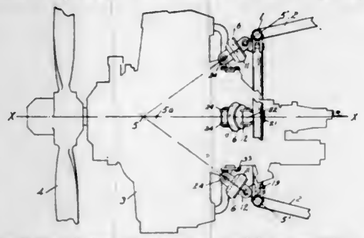
2,287,315
COLLAPSIBLE CARRIAGE AND SHACKLE MOUNTING THEREFOR
Samuel Kroll and Nathan J. Kroll, Chicago, Ill.
Application December 6, 1940, Serial No. 368,755
5 Claims. (Cl. 280—47)



1. In combination with a carriage running gear structure having side bars, and a wheel-bearing axle, bearing structures for said axle each comprising a bearing plate, means providing slidable adjustable connection between the plate and the side bars, and means for manually adjusting said plate relative to said side bars, said last-named means comprising a threaded portion on said bearing plate and a wing nut threaded thereon, and a spring shackle carried by said axle and adjustable therewith.

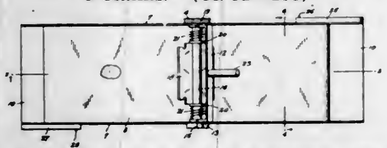
2,287,316
RESILIENT MOUNTING
Hugh C. Lord, Erie, Pa., assignor to Lord Manufacturing Company, Erie, Pa., a corporation of Pennsylvania
Application February 11, 1941, Serial No. 378,377
7 Claims. (Cl. 248—5)

1. A yielding mounting comprising members having opposing substantially plane faces, and resilient material between the faces yielding to permit a shear movement of the members in different edgewise directions of the faces, and



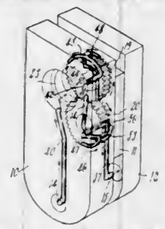
an auxiliary joint means on said mounting providing for local swinging of the faces in one shear direction to provide differential resistance of the mounting in two shear directions.

2,287,317
BLADE-SHARPENING AND HONING DEVICE
Stephen P. McDonnell, St. Cloud, Minn.
Application June 25, 1941, Serial No. 399,712
3 Claims. (Cl. 51—153)



1. In a blade honing and stropping device, a frame embodying a pair of opposed parallel side members, a sharpening element supported between said side members, a blade holder movable longitudinally of said frame and embodying a rotatable blade-carrying rod having ends thereof engaging in slots provided longitudinally of said sides of the frame, a double-ended head on one end of said rod, a trip bar on the frame in the path of the head for effecting a quarter of a turn of said rod, a gear on the other end of said rod, and a rack bar on the other of the sides of said frame at the end thereof opposite to the first-named end of the frame and disposed in the path of the gear for effecting a one-half revolution of said rod.

2,287,318
BALANCED PRESSURE METERING PUMP
Frederic McIntyre, Newton, Mass.
Application March 16, 1939, Serial No. 262,079
11 Claims. (Cl. 103—126)



1. A metering pump having a casing with internal merging gear chambers, intake and outlet spaces at opposite sides of the merging portions of said chambers and external inlet and discharge ports, pump gears occupying said chambers with clearances sufficient for rotation and insufficient to permit substantial leakage of fluid around the gears meshing together between

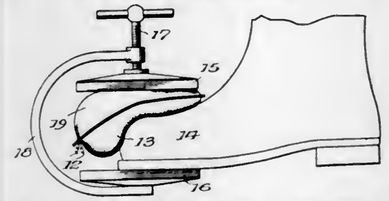
said intake and outlet spaces, the casing having an internal channel leading from the inlet port to a limited portion of the circumference of one gear diametrically opposite to the meshing point between the gears, a second channel leading from said portion of the circumference of said gear to the intake space of the gear chambers, a third channel leading from the outlet space of the gear chambers to the outer peripheral part of the other gear, and a fourth channel leading from said peripheral part of the last named gear to the discharge port of the pump.

2,287,319
PARAFFIN REMOVING DEVICE
Ira A. Miller, Houston, Tex., assignor to Herbert C. Otis, Dallas, Tex.
Application July 14, 1939, Serial No. 284,417
22 Claims. (Cl. 166—18)



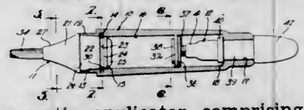
1. A paraffin removing device including, a support, a scraping member carried by the support for removing paraffin from a tubular conductor as the device is lowered therethrough, and means on the support arranged to lock the device against upward movement in the conductor in the event an upward force is exerted against the lower end of the device, whereby said device is prevented from being forced upwardly and out of the conductor during the lowering operation.

2,287,320
VULCANIZING IMPLEMENT
Byron V. Mitchell, Jamaica, N. Y.
Application August 21, 1940, Serial No. 353,585
2 Claims. (Cl. 219—46)



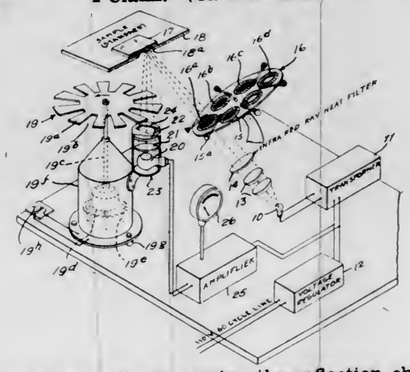
1. A vulcanizing implement composed of a woven fabric container, a flexible partition dividing said container into two separate compartments, an electrical heating unit carried by said partition, a granular material of low thermal conductivity in one of said compartments, and a mass of granular material of high thermal conductivity loosely confined in the second compartment.

2,287,321
COSMETIC APPLICATOR
Charles A. Mureau, Los Angeles, Calif.
Application October 4, 1939, Serial No. 297,821
6 Claims. (Cl. 15—137)



1. A cosmetic applicator comprising a body having an opening forming a reservoir for the cosmetic, cosmetic applying means removably secured to the body to have its inner face at an end of the body opening and to be freed for ready removal by an outward thrust, a plunger operable in the body opening to eject the cosmetic to the applying means and engageable with the inner face of the applying means to exert an outward force thereon and thus free the applying means for removal when the supply of cosmetic is exhausted and means for operating the plunger.

2,287,322
APPARATUS FOR TESTING COLOR
Oscar E. Nelson, Tyrone, Pa., assignor to West Virginia Pulp and Paper Company, New York, N. Y., a corporation of Delaware
Application December 14, 1939, Serial No. 309,142
1 Claim. (Cl. 250—41.5)

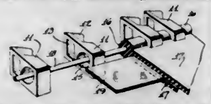


In a device for measuring the reflection characteristics of a surface to be tested, and employing a photoelectric cell against which a beam of light from said surface is impinged, a thermionic amplifier for said cell and an indicating device actuated thereby, the improvement which consists in the combination with the foregoing of a light interrupting device in the path of said beam to said cell, said device consisting of a plurality of movable vanes and means for driving same, an apertured diaphragm coacting therewith whereby to periodically interrupt said light beam, said vanes and the aperture being so arranged that the shadows of said vanes cast upon said aperture are substantially equal in size and area to said aperture whereby a current of substantially 100% modulation and of substantially sine form is produced in said cell and of a frequency facilitating the amplification of said current by said amplifier.

2,287,323
FASTENER
Noel J. Poux, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania
Application December 29, 1937, Serial No. 182,292
7 Claims. (Cl. 24—205)

1. In a flexible fastener of the class described,

cooperating series of substantially rigid fastener elements, each element being integral and having a head portion and a stringer engaging portion with a bead-receiving opening having continuous walls, a longitudinally inextensible stringer of reinforced homogeneous resilient flex-



ible material having a thickened bead portion disposed in the bead-receiving openings of the fastener elements and bonded to said fastener elements, said stringer having a flat portion extending from said thickened bead portion and integral therewith for attachment at the side of an opening.

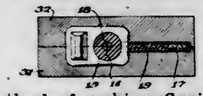
2,287,324

SLIDE FASTENER MANUFACTURE

Noel J. Poux, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania

Original application December 29, 1937, Serial No. 182,292. Divided and this application June 22, 1940, Serial No. 341,857

5 Claims. (Cl. 18—59)



1. The method of making flexible fasteners of the class described, comprising placing a series of fastener elements in aligned and spaced relation, each of which elements has interengaging portions for cooperating with a flexible stringer, and then molding the stringer from flexible moldable material in engagement with said fastener elements whereby said fastener elements are held on said stringer when molded.

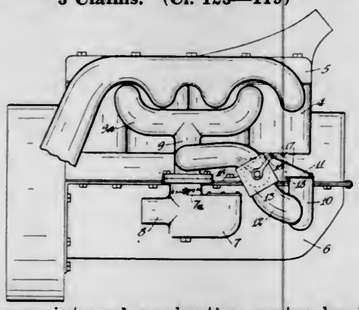
2,287,325

INTERNAL COMBUSTION ENGINE

Douglas D. Raze, Robbinsdale, Minn.

Application October 28, 1938, Serial No. 237,500

3 Claims. (Cl. 123—119)



1. In an internal combustion engine having a conventional cylinder, a piston adapted to reciprocate therein and a crank shaft connected to one side of said piston, a crank case adapted to enclose said crank shaft and sealed completely from the outer atmosphere, a carburetor, an intake conduit leading from said carburetor to the opposite side of said piston from said crank shaft, a lubricant inlet for said crank case, a pressure balancing conduit connected between said lubricant inlet and said intake conduit, said pressure balancing conduit being of sufficient diameter to permit substantially instantaneous balancing of differential pressures between opposite sides of said piston, a valve in said pressure balancing conduit, a hinged closure cap for said lubricant inlet, and a connection between said valve and said closure cap whereby said valve and said cap will move in unison and said closure cap being in closed position when said valve is in open position.

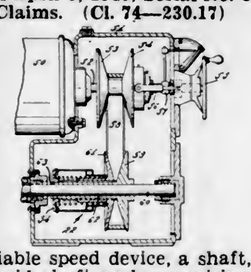
2,287,326

PRELOADED SAFETY SPRING UNIT

Paul B. Reeves and Theodore P. Knoedler, Columbus, Ind., assignors to Reeves Pulley Company, Columbus, Ind., a corporation of Indiana

Application April 5, 1940, Serial No. 328,012

8 Claims. (Cl. 74—230.17)



1. In a variable speed device, a shaft, a pulley mounted on said shaft and comprising a coned disc fixed to said shaft and having an elongated hub projecting from its coned face, a mating coned disc slidably mounted on said hub, a tubular casing fixedly secured on said hub and spaced from the coned face of said first disc by said second disc, a second tubular casing telescopically associated with said first-named casing and bearing on said second-named disc, a coiled spring received within said telescoping casings and urging separation thereof, and means limiting the degree of separation of said casings, the abutment for one end of said spring being axially removably associated with one of said casings.

2,287,327

TOOTHBRUSH

Adolph Rickenbacher, Los Angeles, Calif.

Application November 12, 1940, Serial No. 365,164

10 Claims. (Cl. 15—176)



1. A tooth brush handle means for a brush head having a mounting stud comprising a handle body, a member secured to the handle body to extend forwardly therefrom and provided at its forward end with an eye for receiving the stud, the member having forwardly convergent edges, and a sliding element movable along the member and cooperable with said edges to contract the eye onto the stud.

2,287,328

STUDIO SPOT LAMP

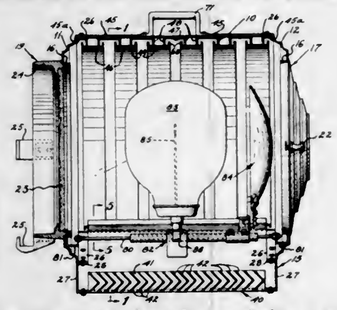
Jess C. Rose, Los Angeles, Calif., assignor to Bardwell & McAlister, Inc., Los Angeles, Calif., a corporation of California

Application February 3, 1941, Serial No. 377,154

4 Claims. (Cl. 240—47)

1. In a lamp having a pair of spaced front and rear generally circular end frames: a ventilated, water excluding and light trapping cylindric wall construction extending between and mounted at opposite ends on said end frames.

said cylindric wall construction comprising inner and outer rows of spaced circumferential channels extending longitudinally between the end frames and closely radially juxtaposed to one another, each such channel comprising a web and a pair of flanges extending in the same direction from opposite edges of said web, the channels of the outer row facing inwardly and the channels of the inner row facing outwardly,



and the channels of each row being positioned opposite the spaces between the channels of the other row, and the spacing between channels being such that the two flanges of the individual channels of each of the rows extend beyond and receive between them the adjacent flanges of the two adjacent channels of the other row, and means interconnecting all said channels to form an integrated structure.

2,287,329

HAND PROTECTING GRIP

Agustin Santa Maria and Francisco Larrondo, Mexico City, Mexico

Application May 9, 1941, Serial No. 392,798

1 Claim. (Cl. 229—54)



A hand protecting grip for bag handles and the like, comprising an elongated body curved longitudinally throughout its length, said body having rounded ends and an under face substantially curved transversely, said body having a groove along the longitudinal center of the upper face thereof to provide a seat for the handles, said groove increasing in width from the transverse center of the body to the outer ends thereof, the ends of the bottom wall of the groove being rounded, said groove being of a depth and width to wholly accommodate the diameter of the handles for the latter to engage the bottom wall, and the side walls of the groove being disposed at right angles to the bottom wall to cooperate with the depth of the groove to prevent casual removal of the device from the handles.

2,287,330

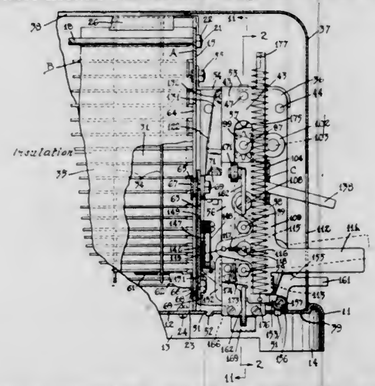
FOOD COOKING DEVICE

Robert Sardeson, Minneapolis, Minn., assignor to Harold C. Genter, Miami Beach, Fla.

Application August 27, 1938, Serial No. 227,131

21 Claims. (Cl. 161—16)

1. In combination, a movable member, movable in opposite directions, driving means for imparting to said movable member timed movement in one direction, said movable member being adapted to commence timed movement at any of a number of positions upon termination of its movement in the opposite direction, adjustable means for terminating movement of said



movable member in the latter direction and at any of a number of said positions, and movable means moved by said movable member for moving said adjustable means to procure variation in the duration of the period of movement of said movable member in said first mentioned direction.

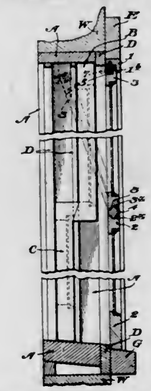
2,287,331

STORM AND SCREEN SASH

Cecil A. Smith, St. Marys, Pa.

Application February 5, 1941, Serial No. 377,553
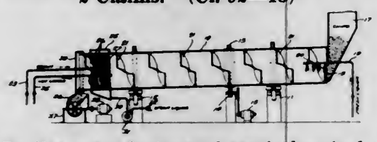
5 Claims. (Cl. 20—55)



1. In combination with a window frame provided with vertically slidable glazed sashes and having an open trim frame around the front thereof including a sill; a sash frame seated upon the sill and fitted within the opening bounded by the trim frame, said sash frame having an inwardly extending flange adjacent its outer face; a lower storm or screen sash section fitted between the walls of the sash frame and closing the lower portion of the opening therein, with its outer face engaging said flange; an upper storm or screen sash section fitted between the walls of the sash frame and closing the upper portion of the opening therein with its outer face engaging said flange; a removable locking bar between the adjacent rails of the upper and lower sections having its ends entering slots in the sides of

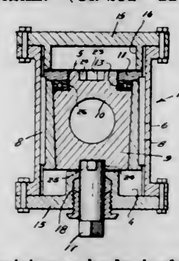
the sash frame; said bar and adjacent rails having interengaging means whereby the adjacent rails will be held against inward movement with respect to the window frame; and means for maintaining the opposite rails of said sections in position in the sash frame.

2,287,332
ROTARY DIGESTER
James E. Steely, Rosedale, Covington, Va., assignor to West Virginia Pulp and Paper Company, New York, N. Y., a corporation of Delaware
Application May 25, 1939, Serial No. 275,689
2 Claims. (Cl. 92—18)



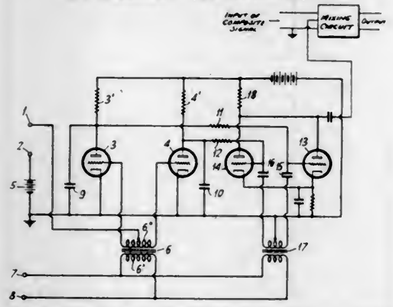
1. In the manufacture of semi-chemical pulp, an inclined rotary digester comprised of a metal shell for cooking divided raw cellulose-bearing material under atmospheric pressure preparatory to the mechanical disintegration of said material, in combination, vanes internal of said shell and attached thereto permitting agitation and regulating the feed of said material, a device for admitting said material at the charge end of said digester, a spray device for admission of treating liquid adjacent said charge end, a steam conduit for admitting steam adjacent the discharge end and means in said digester for screening and washing the digested pulp preparatory to discharging the same comprising a foraminous portion of said shell, and spray devices for the admission of washing fluid adjacent said foraminous portion.

2,287,333
VALVE
Vernon S. Walker and Loyal R. Babb, Tulsa, Okla.
Application October 24, 1940, Serial No. 362,678
1 Claim. (Cl. 251—113)



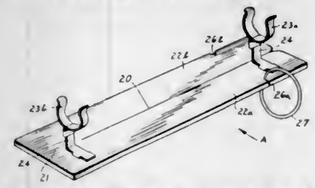
A valve comprising a body including a cylinder having a diametrically opposite inlet and outlet, said cylinder being open at its ends, an internally tapered seat removably mounted in the cylinder and having diametrically opposite ports therein communicating with the inlet and outlet, a tapered plug rotatably mounted in the seat and having a diametrically extending passage therein for communication with the ports, removable end plates on the body closing the ends of the cylinder, an inwardly projecting flange on one end plate forming an abutment for one end of the plug, a packing gland on the other end plate projecting into the cylinder and forming an abutment for the other end of the plug, a manipulating stem for the plug journaled in the packing gland, said plug having a transverse groove in its end adjacent the stem, and a transverse key on the inner end of the stem engaged in the groove to provide a rotatable connection between the plug and stem, said key engaging the packing gland to prevent removal of the stem.

2,287,334
ELIMINATION OF UNDESIRED ELECTRICAL SIGNALS
Eric Lawrence Casling White, Middlesex, England, assignor to Electric & Musical Industries Limited, Middlesex, England, a company of Great Britain
Application May 5, 1939, Serial No. 271,902
In Great Britain May 17, 1938
7 Claims. (Cl. 250—27)



1. Apparatus for eliminating from a composite wave form an undesired recurrent wave form comprising means for rectifying said composite wave form, means for developing a wave form similar to said undesired wave form, means for impressing said latter developed wave form onto said rectifying means, balanced opposing amplifying means comprising thermionic means having a plurality of anodes, cathode means and at least one control electrode, means for impressing the output of said rectifying means onto the control means of said balanced opposed amplifying means, and means to change the balanced state thereof for impressing the developed wave form similar to the undesired wave form onto control means of said amplifying means.

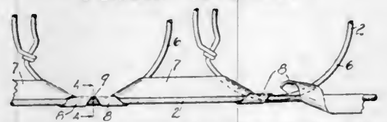
2,287,335
PROTECTOR FOR USE IN HAIR WAVING APPARATUS
Emile J. Yven, Jackson Heights, N. Y., assignor to Clairol Incorporated, Stamford, Conn., a corporation of Connecticut
Application May 28, 1941, Serial No. 395,567
6 Claims. (Cl. 132—36.1)



1. A non-reusable scalp protector for use in permanent waving and made of readily destructible material suitable for single application, comprising a slitted base, a hair gripping element separably mounted on said base, and having upstanding walls extending through the slit thereof, and resilient means for drawing the portions of the base bounding the slit and the upstanding

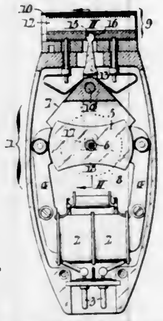
parallel walls of the hair gripping element towards one another, whereby to lock the hair gripping element within the slit and to seal the slit.

2,287,336
SPRING STRUCTURE FOR CUSHIONS, MATTRESSES, OR THE LIKE
Leonard A. Young, Detroit, Mich.
Application September 9, 1940, Serial No. 355,967
8 Claims. (Cl. 5—260)



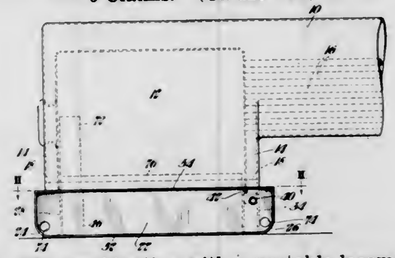
1. In a spring structure, the combination of body springs arranged in rows, the springs of adjacent rows being connected, a top border frame of wire, certain body springs being arranged with their top coils in underlapping relation to a side member of said border frame, and combined clip and brace members formed of flat strips of metal and terminating at each end in laterally extending spiral coils, the spiral coils of said members clampingly embracing the overlapping portions of the frame member and coils of a pair of adjacent springs with the body portions of said combined clip and brace members resting upon the end coils of the pair of adjacent springs and at the inside of the border frame member with their outer edges in supporting engagement with the border frame member and constituting reinforcing means therefor.

2,287,337
POWER ACTUATED SHAVER
Hans J. Zimmermann, Philadelphia, Pa., assignor of one-half to Kern Dodge, Philadelphia, Pa.
Application March 21, 1940, Serial No. 325,147
2 Claims. (Cl. 30—43)



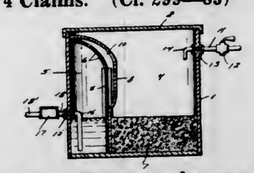
1. In a power actuated shaving device including a drive shaft, and a movable cutter; an eccentric cam on said shaft, said cam being preferably of substantially equilateral triangular contour with curved faces of corresponding shape, an adjoining pair whereof are mainly within the circumferential confines of said shaft and are respectively active and inactive according to the direction of rotation, the intervening curvature projecting wholly beyond such circumferential confines and always serving as a dwell; and means operatively coupling the cam to the movable cutter, whereby each half-revolution of the former imparts consecutive accelerative and decelerative reciprocatory movements to the latter of major degree with initial and terminal dwell periods of minor duration.

2,287,338
PORTABLE BOILER FLAME CHAMBER
James W. Adams, Dallas, Tex., assignor to Oil Well Supply Company, a corporation of New Jersey
Application August 15, 1939, Serial No. 290,283
6 Claims. (Cl. 110—87)



1. The combination with a portable locomotive type boiler having an open-bottom firebox and depending water legs, of a separable portable unitary flame chamber device therefor comprising a substantial continuation of the firebox and including a metal framework proportioned to receive and support said firebox by the water legs thereof, said device enclosing the open bottom of said firebox, the device having an inner refractory lining carried by and secured to the metal framework and defining a flame chamber disposed below said water legs and a burner mounted on said device for firing the boiler.

2,287,339
COMPOUND DISPENSER FOR WASHING MACHINES
Alfred C. Balcunas, Dorchester, Mass.
Application June 12, 1941, Serial No. 397,829
4 Claims. (Cl. 299—83)

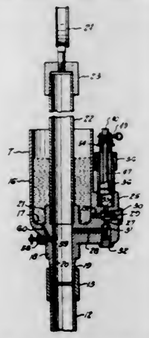


1. A compound dispenser for washing machines and the like comprising a container, a partition dividing the container into two chambers, said partition being formed of spaced walls forming a chamber therebetween in communication with the first-named chambers, one chamber containing a cleansing compound, means for introducing a liquid into the chamber containing the compound to form a saturated solution which passes through the partition into the second chamber, and a discharge pipe entering the second chamber.

2,287,340
METHOD OF AND MEANS FOR TESTING WELL TUBING
Carl H. Browall, Ada, Okla.
Application August 24, 1939, Serial No. 291,650
5 Claims. (Cl. 137—77)

1. A testing device including, an annular body having an open top forming a fluid reservoir, means for mounting the body on a fluid conductor, said body having a passage establishing communication between the reservoir and the conductor, means mounted on the body for forcing the fluid from the reservoir into the conductor under pressure so as to subject said con-

ductor to such pressure, a tubular pipe extending axially of the body and having its lower end communicating with the bore of the conductor, a pressure gauge mounted on the closed top of the



pipe for indicating the pressure conditions therein, and a manually operated relief valve for releasing the fluid under pressure from the conductor.

2,287,341

BODY-WEIGHT-DISTRIBUTING CONSTRUCTION FOR SHOES AND THE LIKE

William C. Burns, Santa Ana, Calif.

Application June 2, 1941, Serial No. 396,309
5 Claims. (Cl. 36—71)



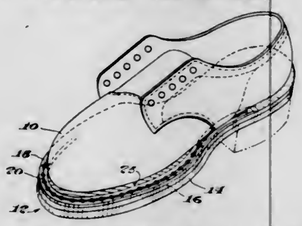
1. A weight-distributing construction for use in a shoe at the inner weight-bearing surface thereof, which comprises: a plurality of spaced elevated shoulder members adapted to underlie the sole of the foot of the wearer of the shoe, one of said shoulder members being located at a position such as to be subjacent the cuboid arch of the foot, and each of the remainder of said plurality of shoulder members being located in spaced relation to said one shoulder member, and of materially greater vertical thickness than said one shoulder member.

2,287,342

METHOD OF MAKING SHOES

Thomas P. Butler, Jr., Salem, Mass.

Application October 17, 1941, Serial No. 415,389
4 Claims. (Cl. 12—142)



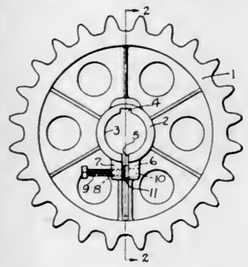
1. A method of making a nailed shoe which comprises the steps of providing an outsole, uniting a relatively narrow welt strip to the marginal portions of the upper surface of said outsole with the outer edge of said strip substantially flush with the periphery of said outsole by sewing to form a row of stitches conforming to and slightly within the outer peripheral edge of said outsole, lasting an upper to an insole having a contour conforming to a line slightly within the inner marginal edge of said welt strip, removing the last, holding said upper in one hand and said outsole in the other hand and placing the upper in assembled relation upon said outsole using the inner marginal edge of said welt as a visual guide to enable the operator to properly position the upper with relation to the outsole, and while said upper and outsole are thus positioned, presenting the same to a nailing machine to nail the upper to said outsole.

2,287,343

METHOD OF SECURING DEVICES TO SHAFTS

Oswald Duda, Corsicana, Tex., assignor to American Well & Prospecting Company, a corporation

Application April 8, 1938, Serial No. 200,974
1 Claim. (Cl. 29—159.3)



A method of fitting fastening and releasing sprocket wheel and the like hubs upon shafts which comprises providing a hub having a split therein with an extending ear at each side of the split, threading a member into one ear and against the other ear to spread the ears and expand the hub within the elastic limit of the material, boring the hub to a size but slightly greater than the diameter of the shaft while the hub is thus expanded, positioning the hub upon the shaft, removing or releasing the member so as to allow the ears and hub to contract so that the hub is firmly seated on the shaft due to its inherent resiliency, and compressing the ears toward each other to secure the hub to the shaft with little or no stress in the metal of the hub.

2,287,344

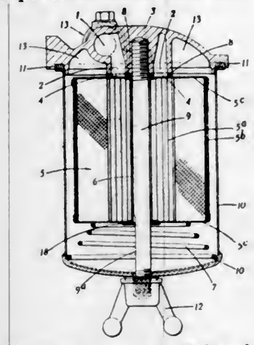
FILTER

Harold Sidney Easton and Cecil Gordon Vokes, London, England

Application January 22, 1940, Serial No. 315,110
In Great Britain February 7, 1939
7 Claims. (Cl. 210—183)

1. A filter including a filter unit having end plates, a tube connected to the end plates and traversing and forming an imperforate passage through the unit, filtering material surrounding the tube, the unit being formed with port means outside the tube giving access to the interior space of the unit, an enclosure containing the unit and defining inlet and outlet passages, a bolt upon which the tube is slidably mounted, and resilient means normally holding the port means of the unit in register with the appropriate inlet

passage, the arrangement being such that excessive back pressure moves the unit on the bolt



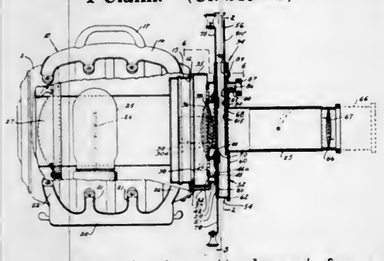
against the resilient means and thereby by-passes the filtering material.

2,287,345

OPTICAL PROJECTION DEVICE

Carl R. Erickson, Los Angeles, Calif., assignor to Bardwell & McAlister, Inc., Los Angeles, Calif., a corporation of California

Application April 2, 1940, Serial No. 327,401
1 Claim. (Cl. 240—3)



An optical projection attachment for a spot lamp having a lamp casing and a light source in said casing, comprising: a supporting frame demountably attachable to the forward end of said lamp casing, said supporting frame having a forward wall disposed at right angles to the lens axis and formed with a large round aperture, a forwardly projecting tubular member rotatably mounted at its rearward end in said aperture, a frame mounted on the forward end of said tubular member and comprising spaced parallel forward and rearward walls at right angles to the lens axis and connecting wall portions, a condenser lens mounted to the rear of said rearward wall, sliding aperture defining mats mounted between said forward and rearward walls, a projection lens tube mounted on the forward side of said forward wall, and an aperture plate received between said forward and rearward walls and rotatably mounted on said forward wall.

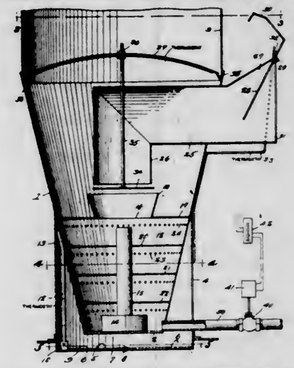
2,287,346

OIL BURNER

William J. Fishel, Winston-Salem, N. C.

Application October 12, 1940, Serial No. 360,981
2 Claims. (Cl. 158—91)

1. A burner for use in heaters comprising a body having a combustion chamber in the lower portion thereof provided with a flared outlet at its top, a jacket surrounding the combustion chamber and communicating therewith, said jacket having an air inlet, means for supplying liquid fuel to the bottom portion of the combustion chamber, an air flue opening into the body and downwardly toward the flared outlet of the combustion chamber, said flue having an air inlet at its outer end, means outside of but controlled by heat generated within the combustion chamber for increasing the flow of air



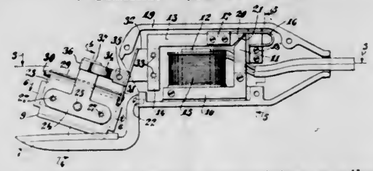
into said inlet as the temperature in the burner rises, a spreader interposed between the flue outlet and the outlet of the combustion chamber, and a thermostat controlled by the heat in the burner for shifing the spreader toward the flue outlet as the temperature rises, thereby to increase the velocity and spread of the increased volume of air admitted through the flue inlet.

2,287,347

ELECTRIC SCISSORS

George A. Gillen, Bronx, N. Y., assignor to Daniel F. Young, Rockville Centre, N. Y.

Application May 6, 1941, Serial No. 392,031
7 Claims. (Cl. 30—228)



1. An electric scissors, comprising a vibrating motor having an F frame and a cooperating L armature opposed at its opposite ends to the opposite ends of the frame and having its intermediate portion opposed to the end of the short leg of the F frame, an energizing magnet winding on said short leg of the F frame, means for yieldingly supporting the armature in vibrating relation to the magnet frame, a razor blade holder mounted on the armature and a stationary blade in cooperative relation to a razor blade secured in said holder.

2,287,348

COATING PAPER

James Grant Hayden, Jr., Westernport, Md., assignor to West Virginia Pulp and Paper Company, New York, N. Y., a corporation of Delaware

No Drawing. Application May 11, 1939, Serial No. 272,961
5 Claims. (Cl. 117—155)

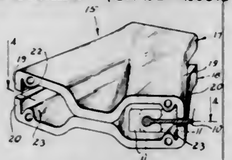
1. An improved paper having a base sheet and a coating comprising clay and in which the clay particles are held together and to the base sheet

by a synthetic water-insoluble plastic material of the group consisting of

Ethyl cellulose (carbon tetrachloride soluble)
Polyvinyl acetate-methylal
Polyvinyl acetate-acetal
Polystyrene
Cellulose acetobutyrate
Methyl methacrylate resin
Polyvinyl acetate
Acrylic acid resin

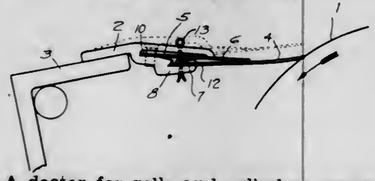
the said coating having been deposited on the base sheet from a solution of the plastic material in a volatile organic solvent carrying the clay in suspension and the content of said plastic material being from 3% to 30% based on the dry weight of the coating.

2,287,349
LOCKING SLIDE FASTENER
Roy Hirsch, Flushing, N. Y., assignor to Universal Slide Fastener Co. Inc., Long Island City, N. Y., a corporation of New York
Application September 26, 1941, Serial No. 412,496
8 Claims. (Cl. 24—205.5)



4. A slider adapted to form a component of a slide fastener assembly, including upper and lower wings embodying dependent rail-forming portions, said wings being interconnected intermediate said rails in spaced relationship to provide a pair of diverging scoop-camming channels, said wings having protuberances of an approximately semi-conical contour formed on the inner faces thereof in proximity to said rails, the axis of each of said protuberances being parallel to the adjacent rail, said protuberances being adapted to coact with surfaces of slide fastener scoops designed for entry within said channels to produce a camming action to interlock such scoops with said slider under certain conditions in the use of the slide fastener.

2,287,350
DOCTOR MECHANISM FOR ROLLS AND CYLINDERS
Frederick W. Lodding, Worcester, Mass.
Application November 8, 1938, Serial No. 239,529
3 Claims. (Cl. 92—74)



1. A doctor for rolls and cylinders comprising a pivotally mounted holder having a slot therein, a thin flexible blade having one edge thereof seated within said slot and providing a projection near said edge extending upwardly from the free surface of the blade and of less thickness than the entrance to said slot, a pressure plate overlying said blade within said slot, means for holding said pressure plate within said slot, with an edge of said plate extending beyond said slot to bear on said blade and providing a projection, intermediate its edges and extending downwardly towards said blade, for engaging said blade projection within said slot to prevent removal of said blade from the slot in the direction of the blade width, shifting of said blade lengthwise of the slot serving to disengage said projections and thereby permit removal of the blade from the holder by passage of said blade projection through the slot entrance.

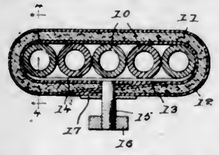
2,287,351
RESINOUS PRODUCT AND METHOD OF MANUFACTURE THEREOF
Robert W. Martin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 30, 1939, Serial No. 264,970
8 Claims. (Cl. 260—110)

1. A method of directly producing from pine wood a pulverulent, free-flowing resin which is substantially insoluble in light petroleum hydrocarbons which includes extracting pine wood with an organic solvent which dissolves the normally solid resinous materials and terpene oils present in said wood, separating the extract from the wood, evaporating from said extract said solvent and other volatile portions to produce a solid residue, treating said residue with a substantially saturated low-boiling paraffin hydrocarbon in liquid state at a temperature below that at which the insoluble particles of the residue soften to dissolve substantially all the rosin and leaving an insoluble residue in a finely divided form and recovering said insoluble residue, which, after drying, is in a pulverulent and free-flowing condition, having the aforesaid characteristic.

2,287,352
RESIN MANUFACTURE
Robert W. Martin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 30, 1939, Serial No. 264,971
7 Claims. (Cl. 260—110)

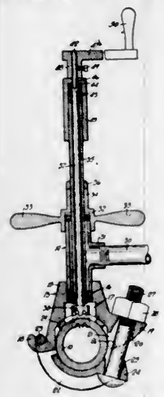
4. A method of directly producing a resin which is substantially insoluble in light petroleum hydrocarbons which includes extracting pine wood with toluene, said extract containing the normally solid resinous materials and terpene oils present in said wood, diluting said toluene extract with pentane in an amount sufficient to precipitate that portion of the resinous materials from the toluene extract which is substantially insoluble in pentane, separating said insoluble portion from the solution and drying the residue.

2,287,353
TRUSS PAD
Charles W. Minnick, Baltimore, Md.
Application October 1, 1941, Serial No. 413,213
4 Claims. (Cl. 128—117)



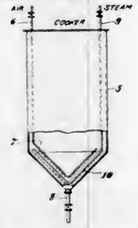
4. In a truss pad, a plurality of resilient tubular sections, and a wrapper embracing the said tubular sections so as to retain the same in parallel and in row arrangement with the ends open and uncovered.

2,287,354
GUIDED PIPE CUTTER
Arthur C. Misch, South Bend, Ind., assignor to M. B. Skinner Co., South Bend, Ind., a corporation of Indiana
Application November 27, 1939, Serial No. 306,284
8 Claims. (Cl. 77—37)



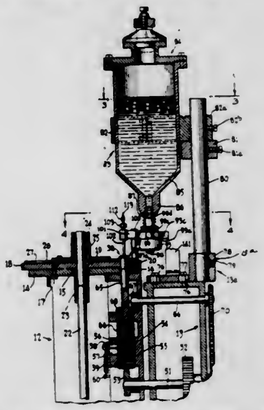
1. A pipe tapping device adapted to be mounted on a branch connector secured to a pipe to be tapped, comprising, a shaft, a cutter mounted on one end of said shaft, an elongated externally screw threaded sleeve snugly receiving said shaft for rotation therein, a member adapted to be mounted on said connector and having a threaded connection with said sleeve whereby said sleeve may be advanced within said connector and relative to said pipe, and a member screw threaded on said sleeve for adjusting the position of said shaft longitudinally of said sleeve.

2,287,355
FRACTIONATION OF HYDROCARBONS
Albert Ramsey Nevitt, New Brunswick, N. J., assignor to Bradford Penn Refining Corporation, Clarendon, Pa., a corporation of Pennsylvania
Application June 5, 1939, Serial No. 277,418
7 Claims. (Cl. 196—13)



1. The process of converting a hydrocarbon material containing in excess of 49% paraffins and having an initial boiling point ranging between 270° F. and 300° F. and an end boiling point between 470° F. and 520° F., into a selective solvent capable of reacting with other hydrocarbons of the same grouping and boiling within narrow limits, thus to separate them into selective pure hydrocarbons, said process comprising heating a paraffin hydrocarbon and contacting the same with an aqueous solution of metallic salts capable of promoting oxidation of the paraffins, passing air therethrough while the hydrocarbon is in contact with said solution, removing the oxidized portion of the mixture, chlorinating the remaining portion of said mixture under conditions to form a super-saturated solution, removing part of said solution containing water, adding sodium chloride to said removed water containing part of said solution, returning the thus treated water containing part of the solution and the oxidized portion of the mixture first removed to the chlorinated portion of the mixture, reheating the thus combined mass, treating with air sufficiently to aid combination of the oxidized portion with the chlorinated portion, settling out the undesired portion and then filtering and decolorizing the remaining desired solvent portion with adsorbent medium to form a solvent soluble in water and petroleum hydrocarbons.

2,287,356
LINING MACHINE
Isidor Newman, New York, N. Y.
Application May 19, 1939, Serial No. 274,581
26 Claims. (Cl. 113—80)

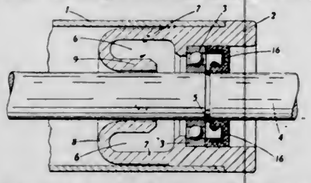


13. In a machine of the character described, a vertical spindle, means for rotating said spindle vertically about its axis, a receptacle, a rotary valve controlling the discharge of liquid from said receptacle, means controlled by an article on said spindle in raised position to rotate the valve to open position, and a nozzle on said valve rotatable therewith and adapted to point toward an article on the upper end of the spindle when the valve is open, and to point away from said article when the valve is rotated to closing position.

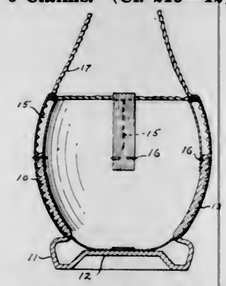
2,287,357
LUBRICATION OF CONVEYER ROLLERS
Tage Georg Nyborg, Worcester, England, assignor of one-half to The Mining Engineering Company Limited, Worcester, England
Application March 15, 1940, Serial No. 324,199
In Great Britain March 18, 1939
4 Claims. (Cl. 308—187)

2. A bearing lubricating means, including two relatively rotatable concentric elements spaced apart to provide an oil reservoir between them, anti-friction bearings between and at the respective ends of the elements, an enlarged chamber carried by the outer element inwardly of and adjacent each bearing, each chamber being formed

with a relatively deep recess opening only toward the adjacent bearing with an inner wall providing with the inner member restricted communication with the reservoir.



2,287,358
BOTTLE BASKET
Enrico Prati, Asti, and William P. Lass, Santa Cruz, Calif.
Application November 19, 1941, Serial No. 419,664
6 Claims. (Cl. 215—12)



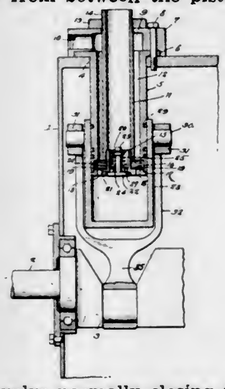
1. A bottle basket formed of plastic material and shaped to fit a bottle having a substantially globular body member, said basket having slits formed in its upper edge to permit admission of the bottle to a point beyond its greatest diameter.

2,287,359
MOTOR FUEL PRODUCTS
Thomas H. Rogers and Vanderveer Voorhees, Hammond, Ind., assignors to Standard Oil Company, Whiting, Ind., a corporation of Indiana
No Drawing. Application August 20, 1930, Serial No. 476,717
5 Claims. (Cl. 44—9)

2. The method of preserving a cracked hydrocarbon distillate which tends to deteriorate and develop gum on storage, which method comprises incorporating in said distillate a trace of a naphthol, less than .1%, sufficient to substantially retard such deterioration and gum formation.

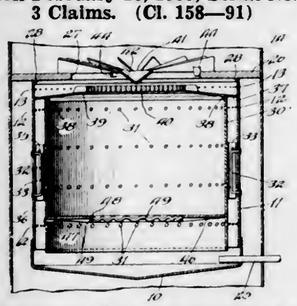
2,287,360
AIR COMPRESSOR
Paul Sappington, Los Angeles, Calif.
Application October 7, 1941, Serial No. 414,015
1 Claim. (Cl. 230—174)

In an air compressor the combination with a housing having an opening and a crank shaft mounted for rotation in the housing, of an outer tubular piston supported on the housing and extending thereinto through the opening, a head overlying and clamped upon the housing and a portion of the outer tubular piston, means for binding the parts together, said head providing a discharge chamber therein and having an opening, an inner piston extending through and engaging the wall of the opening, said inner piston being tubular and spaced from and concentric with the outer piston, a valve casing removably seated in the lower end of the inner piston, an annular flange thereon bridging the space between the valve casing and the outer piston and apertured to provide outlets, a spring-pressed valve normally closing the outlets against pressure of air from between the pistons, a spring-



controlled valve normally closing the valve casing against pressure from without the pistons, a cylinder closed at one end and open at its other end, said cylinder being fitted snugly about and slidable along the outer piston, and a pitman connection between the cylinder and the crank shaft.

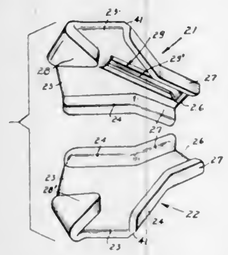
2,287,361
OIL BURNING HEATER
Frederick G. Suchland, Quincy, Ill., assignor to The Quincy Stove Manufacturing Company, Quincy, Ill., a corporation of Illinois
Application February 16, 1939, Serial No. 256,619
3 Claims. (Cl. 158—91)



1. An oil burning heater comprising a pot open at the top and provided with means for flow of air thereinto, a plate associated with said pot centrally apertured to permit flow of gases from said pot, said pot being also provided with secondary air holes above said plate and a second plate above said secondary air holes apertured to permit flow of gases therethrough and means associated with said second plate comprising a central portion above said aperture and vanes extending therefrom to obstruct and spread the gases flowing therethrough.

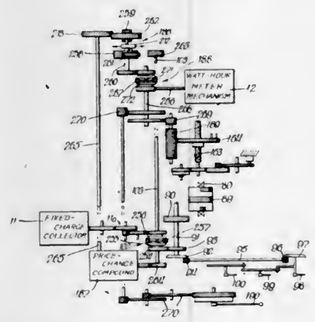
2,287,362
SLIDER
Maurice Voity, Long Island City, N. Y., assignor to Universal Slide Fastener Co. Inc., New York, N. Y., a corporation of New York
Application September 16, 1940, Serial No. 356,899
3 Claims. (Cl. 24—205)

3. A slider for separable fasteners comprising separate front and rear plates of sheet material, each having perpendicularly-directed guide tracks, an inwardly bent substantially triangular tongue integral with and projecting from an end of each of said plates, each said tongue being of the same thickness as the plate sheet material and disposed in parallelism with and extending against its corresponding plate with the apex



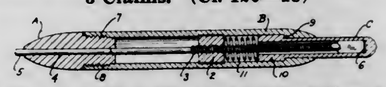
of each tongue triangle directed longitudinally of the slider, said plates and tongues being symmetrically arranged against and secured to each other across the tongues thereof to predeterminedly space and hold said plates relative to each other, said guide tracks being less in height than the tongue thickness whereby the opposed ends of the flanges are spaced from each other.

2,287,363
PREPAYMENT MECHANISM
George Edward Weston, Enfield, England, assignor to Sangamo Electric Company, Springfield, Ill.
Application February 12, 1938, Serial No. 190,180
In Great Britain February 16, 1937
7 Claims. (Cl. 194—1)



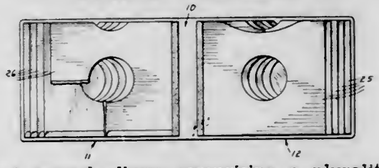
2. A prepayment electricity meter comprising, coin handling mechanism including coin receiving and coin testing means in which an inserted coin is arranged to travel step by step through the mechanism, an integrating meter for recording the consumption of energy, credit registering mechanism and means for operating the same in a credit direction in accordance with the operation of said coin handling mechanism and in a debit direction by said meter, and means controlled by said credit registering mechanism when the latter is in a position approaching zero credit for automatically and momentarily interrupting the supply circuit through said meter and for interrupting the supply when zero credit is reached until a fresh coin is inserted.

2,287,364
MECHANICAL PENCIL
Charles E. Wehn, Alameda, Calif., assignor to Listo Pencil Corporation, Alameda, Calif., a corporation of California
Application October 6, 1941, Serial No. 413,772
3 Claims. (Cl. 120—18)



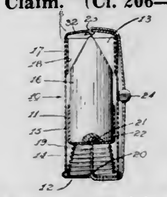
1. In a pencil having a barrel section and a point section at its forward end, with a lead receiving passage formed therein, a nut secured within the barrel against rotation, a threaded rod extending through the nut and into the lead receiving passage, a rotor projecting through an opening formed in the rear end of the barrel, a splined telescoping connection formed between the rotor and the threaded rod, means securing the rotor against endwise removal from the barrel, and a helical spring surrounding the threaded rod and interposed between the nut and the rotor to frictionally resist rotation of the rotor.

2,287,365
PHONOGRAPH RECORD ALBUM
Samuel Widder, New York, and Irving Weinger, Brooklyn, N. Y., assignors to J. Widder & Co., New York, N. Y., a copartnership comprised of Samuel Widder and William Widder
Application April 4, 1941, Serial No. 386,792
6 Claims. (Cl. 129—15)



2. A record album comprising a plurality of base members connected by a backbone, a series of record-receiving envelopes and means hingedly connecting said envelopes to one or the other of said base members in laterally spaced relationship, said means including strips of flexible material, each connected to an envelope and to one of said base members to provide a hinge line therebetween and flexible means overlying said hinge-forming strip in its zone of connection to one envelope and spanning the space between such envelope and an adjacent envelope and being secured to the latter, said means functioning to maintain the hinge line against dislocation in the movement of said envelopes.

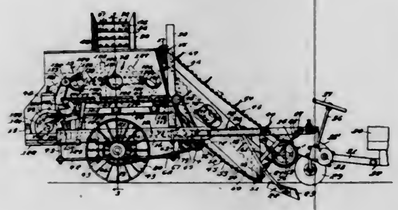
2,287,366
LIPSTICK DEVICE
James L. Younghusband, Chicago, Ill.
Application October 13, 1941, Serial No. 414,793
1 Claim. (Cl. 206—56)



A lipstick device comprising a hollow body member having side walls, a closed bottom and an open top, a holder adapted to hold lipstick

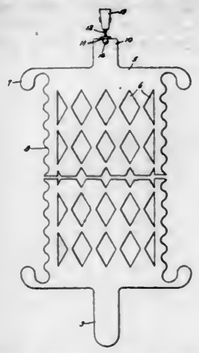
movable within said body member, a spring positioned within said body member with its lower portion contacting said bottom and its upper portion contacting the bottom of said holder, a separate closure adapted to removably close said open top, said closed bottom having a small opening therethrough, a cord attached on one end to said holder and on the other end to said closure, said cord extending through said opening in said bottom, said spring adapted to exert upward pressure on said holder for projecting said lipstick above said open top when said closure is removed, said closure adapted upon removal from said open top to fall by gravity completely away from said open top so that the user may grasp the side walls of the body member free from any obstruction by said closure for application of said lipstick by the user, said cord adapted upon pressure from the user on said closure to pull said holder with its lipstick against the action of said spring back into said hollow body member, said cord being of sufficient length to permit said closure to be removably positioned to cover said open top, and a ball of larger diameter than the opening in said bottom, said ball attached to said cord below said bottom and positioned on said cord spaced from said closure, so that when said closure is removed from the open top of said body member and released from control by the user, said ball will engage the bottom of said body member and stop the upward movement of the spring from ejecting said holder and its lipstick out of said body member, said ball in engaging the bottom of said body member also preventing said closure from contacting the bottom of said body member.

2,287,367
SUGAR BEET MACHINE
Joseph S. Albin, Prosser, Wash.
Application June 8, 1940, Serial No. 339,563
8 Claims. (Cl. 55—9)



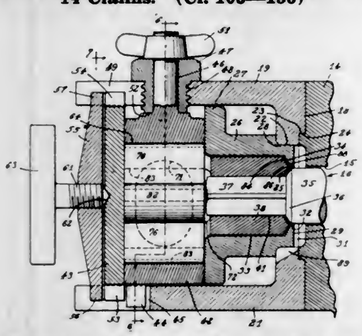
1. A beet harvesting and topping machine comprising a portable frame; an endless conveyer extending longitudinally of the frame and adapted to carry beets toward the rearward end thereof; a motor mounted on the frame and having a driving connection with the said conveyer; a beet topper arranged laterally of the conveyer; digger means arranged at the front of said frame to remove the beets from the ground; a traction operated drive means mounted on the frame; and upwardly and rearwardly inclined endless conveyers interposed between the digger means and the said first conveyer and having a driven connection with the said traction operated drive means, said last conveyers being adapted to receive the beets from the digger means and to deposit the same on the first conveyer, whereby operators positioned laterally of the said first conveyer and in front of the topper may pick the beets from the conveyer and feed the same into the said topper.

2,287,368
YARN HOLDER
Barbara R. Anderson, Los Angeles, Calif.
Application June 7, 1941, Serial No. 397,109
1 Claim. (Cl. 242—136)



A yarn holder comprising a substantially rectangular perforated plate having hook-like lateral extensions at the corners thereof, the longitudinal edges of said plate between said lateral extensions being scalloped, a handle extending from one end of the plate, a member extending from the other end of the plate having a bent-over lug extending at right angles to said plate, and a clamp means swivelled in said lug.

2,287,369
PUMP
Swan F. Anderson, Rockford, Ill.
Application January 31, 1940, Serial No. 316,472
14 Claims. (Cl. 103—136)



1. The combination in a demountable pump of a yoke comprising a central portion and spaced arms extending therefrom disposed in parallel disposed spaced relation and forming a fixed frame for the pump, a pump casing comprising a one-piece cylinder of relatively thick rigid material disposed between said arms having plane ends, projecting portions anchored in said arms to retain the same against rotation, and laterally disposed inlet and outlet flanges, a rotary movable vane impeller in said cylinder, an end member disposed between one end of said cylinder and said central portion, said end member and said frame being shaped for reception of the end member in free locating abutment with said frame, an end member disposed against the opposite end of said cylinder shaped for locating abutment with respect to said arms, said end members having plane accurately finished faces arranged to abut the ends of said cylinder in

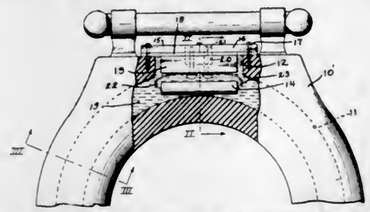
sealing relationship to form therein a pump chamber, and a clamp acting between said arms and the last mentioned end member manually operable to compress said end members and said cylinder against said central portion to press said faces against the ends of said cylinder member and thereby seal the junction therebetween against leakage, said arms and said clamp being the sole means for securing the parts together.

2,287,370
ROOF FRAMING SUPPORT
John G. Becker, San Angelo, Tex.
Application December 19, 1941, Serial No. 423,663
3 Claims. (Cl. 108—1)



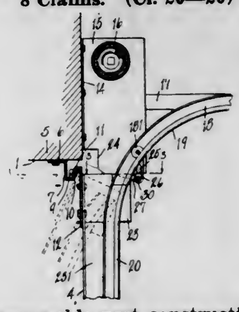
1. In a roof arch, a bow which is T-shaped in cross section, comprising a transverse head and a depending shank, the shank comprising a line of upper members and a line of lower members, the members of the respective lines being disposed in longitudinal, edge-to-edge engagement, the members of each line being tapered from an intermediate point to their extremities, the tapered portions of the members of the upper line being superposed on the tapered portions of the members of the lower line, in oppositely-projecting relation, to give the shank a substantially uniform height, and to dispose the end surfaces of adjoining members of the upper line in break-joint order with respect to the end surfaces of adjoining members of the lower line, the head comprising strips disposed end-to-end, the end surfaces of the strips being located in break joint order with respect to the end surfaces of adjoining members of the upper line, and means for securing the head and the shank together.

2,287,371
HEATED TOILET SEAT
George R. Blakesley and Frederick Herbert Haas, West Los Angeles, Calif.
Application August 23, 1940, Serial No. 353,811
2 Claims. (Cl. 219—19)



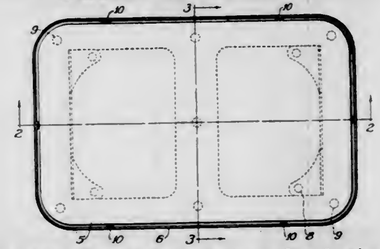
1. A toilet seat having a hollow interior and being formed at one end thereof to define an opening communicating with the hollow interior, a heat-distributing liquid disposed within and substantially filling the hollow interior, a closure member removably secured to said seat and normally sealing said opening, an electric heater unit carried by said closure member and disposed within the hollow interior of the seat and immersed in said liquid, said heater being insertable through said opening and being removable with said closure member as a unit, means defining a recess in said closure member, pin connector means on said closure member and within said recess for protection by said closure member, and in circuit connection with said heater, and a plug insertable in said recess in contact with said pin connector means.

2,287,372
REMOVABLE POST FOR VERTICALLY ACTING DOORS
Herbert Cady Blodgett, Hartford City, Ind., assignor to Overhead Door Corporation, Hartford City, Ind., a corporation of Indiana
Application February 12, 1940, Serial No. 318,406
8 Claims. (Cl. 20—20)



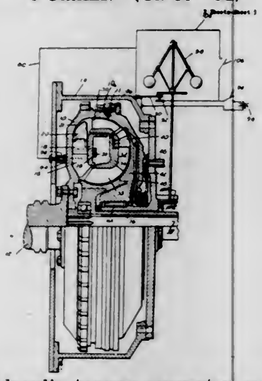
8. In a removable post construction for vertically sliding doors, a keeper in fixed relation at the top of a door opening receiving said construction, a post having a latch member adjacent the top thereof releasably engageable with said keeper, means for maintaining said post in vertical position in the plane of the door opening, said latch member being fully disengageable from said keeper by lifting of the post to remove the latter bodily from operative position in the door opening, and means coacting with said post and the bottom of said door opening to restrain the post in the front-to-rear direction at that point.

2,287,373
SADIRON REST
William M. Cissell, near Louisville, Ky.
Application November 25, 1940, Serial No. 367,030
3 Claims. (Cl. 248—117.3)



2. A sad-iron rest consisting of a horizontal base having a perimetrical flange extending substantially vertically-upwardly from the marginal edges of the said base; a plate of heat insulating material disposed upon the said base and within the said flange, the said plate having its marginal edges spaced laterally-inwardly from, and substantially parallel with, corresponding faces of the said flange; and a plurality of projections extending laterally-inwardly from opposing faces of the said flange, and frictionally engaging the corresponding marginal edges of the said plate, for frictionally securing the said plate to the said base in the aforesaid spaced relation with the said flange.

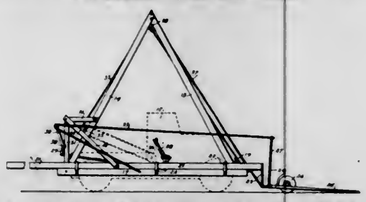
2,287,374
HYDRAULIC TORQUE CONVERTER
Adiel Y. Dodge, South Bend, Ind.
Application March 18, 1938, Serial No. 196,712
6 Claims. (Cl. 60—54)



1. A hydraulic torque converter comprising a vaned impeller and a vaned rotor forming a liquid circuit, a set of relatively fixed vanes at the inlet end of the impeller, a set of eccentrically pivoted vanes at the outlet end of the impeller to change the impeller discharge angle, a plurality of weights eccentrically connected to said pivoted vanes to move the vanes in response to centrifugal force, pins carried by said weights, a ring having slots in which said pins fit to move all of the pivoted vanes in unison and resilient means urging said ring in one direction.

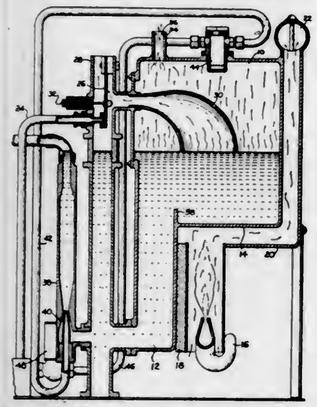
5. In a hydraulic torque converter, a rotatable casing member, a plurality of vanes pivotaly carried by said casing member on axes at right angles to the casing member wall, and a plurality of supplemental vanes pivotally mounted on said first named vanes respectively on axes at right angles to said first named axes.

2,287,375
COMBINED HAY RAKE AND STACKER
Clyde A. Ford, Jr., Olney Springs, Colo.
Application October 5, 1940, Serial No. 359,846
4 Claims. (Cl. 214—141)



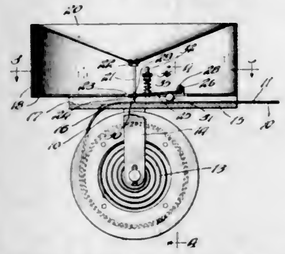
1. Apparatus of the character described, comprising, a rigid frame adapted to be secured to and carried by a powered vehicle, a yoke pivoted to one end of and in embracing relation with said frame for actuation through a vertical arc, means and connections between said yoke and the power unit of said vehicle selectively operable to swing said yoke relative to said frame, arms slidably associated with the side members of said yoke, a rake assembly hingedly carried by the forward ends of said arms, links engaging between said arms and frame to extend the former forwardly of said yoke as the yoke is swung upwardly relative to said frame, flexible, non-extensible connections engaging between yoke side members and upright portions of said rake assembly and about idler rollers carried by said frame above the pivotal axis of said yoke, whereby said rake assembly is normally maintained in load-carrying attitude during actuation of said yoke, and manually-operable means for shifting said idler rollers longitudinally of said frame to vary the attitude of said rake assembly.

2,287,376
HUMIDIFIER
Francis A. Furlong and Norman C. Penfold, Chicago, Ill., assignors to Autogas Company, Chicago, Ill., a corporation of Illinois
Application September 11, 1940, Serial No. 356,270
7 Claims. (Cl. 122—382)



1. A humidifier comprising a tank to contain water, means for heating water in the tank to vaporize it, a horn member in the tank terminating in a downwardly facing opening at the desired level of water in the tank, means operated by flow of steam through said horn member when the water level falls below said opening for admitting water to the tank, means for periodically draining the water from the tank, and spray means operable simultaneously with the draining means and so positioned in the tank as to flush it, the water being of such temperature that the formation of steam during the flushing and draining operation does not take place.

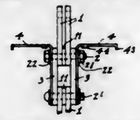
2,287,377
PHONOGRAPHIC DEVICE
Edwin L. Gallier, Chicago, Ill.
Application July 22, 1940, Serial No. 346,789
7 Claims. (Cl. 274—11)



1. In a phonographic device, the combination with a movable sound record tape, of a sound reproducer to engage the tape in one direction of movement, a spring for retracting the tape,

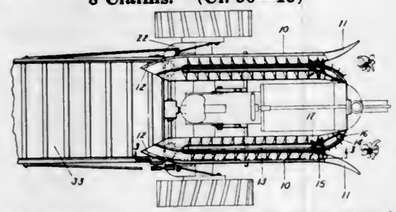
and means comprising a roller device engaging the tape for moving the sound reproducer from engagement with the tape when it is retracted.

2,287,378
FLIGHT CONVEYER
Henry W. Hapman, Detroit, Mich.
Application February 1, 1940, Serial No. 316,706
2 Claims. (Cl. 198—171)



1. In a flight conveyer for a conduit arranged to follow a desired circuit; a chain comprising alternate pairs of inner and outer links connected by transverse pivot pins; a series of flights formed from plate material cut to conform substantially to the interior surface of said conduit and extending sidewise from said links in opposite directions from opposite sides of said chain; and arms extending at an angle to said flights and having openings fitting over the ends of said pivot pin for securing said flights upon said chain, said flights having bent-up peripheral projections extending outwardly from their marginal edges, said projections being adapted to slidably contact the interior surface of the conduit.

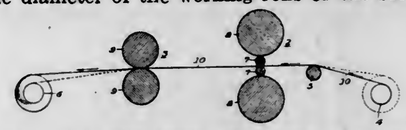
2,287,379
TWO-ROW TOPPER
Vern H. Kiehl, Guide Rock, Nebr.
Application October 23, 1940, Serial No. 362,383
8 Claims. (Cl. 56—15)



1. A topper for attachment to a tractor having a body portion and a draw bar, said topper including an upwardly and rearwardly inclined harvesting elevator, a rotary cutter in the forward portion of said harvesting elevator for severing the grain heads from the stalks, an endless conveyor in said harvesting elevator, a supporting bracket and a transverse shaft releasably secured to the draw bar of the tractor, a supporting prop pivotally secured at its lower extremity to said transverse shaft and rigidly secured at its upper extremity to said harvesting conveyor at the upper extremity thereof, means under the control of the driver of the tractor for imparting arcuate movement to said harvesting conveyor about said transverse shaft as a pivot to thereby raise or lower the forward extremity of said harvesting elevator, and means for driving said rotary cutter and said endless conveyor.

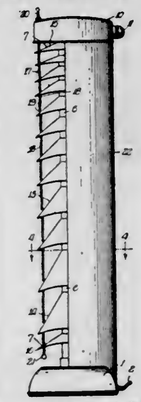
2,287,380
METAL ROLLING
Clarence J. Klein, Hollidays Cove, W. Va., and Ernest W. Rieger, Bloomingdale, Ohio
Application January 30, 1940, Serial No. 316,314
6 Claims. (Cl. 80—35)

1. A two-stand, skin-pass mill for imparting stiffness to strip metal while slightly reducing the thickness comprising a 4-high mill having work rolls having a diameter not greater than about one-fourth of the diameter of the backing-up rolls, a second mill in tandem with the first mill, the diameter of the working rolls of the second



mill being at least twice the diameter of the working rolls in the first mill, means for introducing the strip into the first mill under back tension, and means beyond the exit side of the second mill for exerting forward tension on the strip as it leaves the rolls of the second mill.

2,287,381
LIGHTING FIXTURE
William E. Laidley, Chicago, Ill., assignor to Clarence L. Steber, Chicago, Ill.
Application January 8, 1940, Serial No. 312,885
2 Claims. (Cl. 240—81)

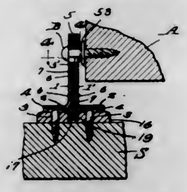


1. A lighting fixture comprising a base, a vertically disposed elongated cylindrical lighting element mounted on said base, a plurality of concentrically arranged, vertically spaced shades about said light and supported from said base, each shade having upwardly inclined converging side walls, the angle of inclination of said side walls progressively increasing in one direction, and a unitary curved reflector arranged on said base to extend vertically adjacent said tubular element and in partial surrounding relation with respect thereto, said vertical reflector having a plurality of separate reflecting surfaces arranged to reflect light in directions away from said lighting element.

2,287,382
BARRIER ALARM
Jay K. Livingston, Houston, Tex., assignor of one-half to Ben Battelstein, Houston, Tex.
Application August 4, 1941, Serial No. 405,390
6 Claims. (Cl. 177—314)

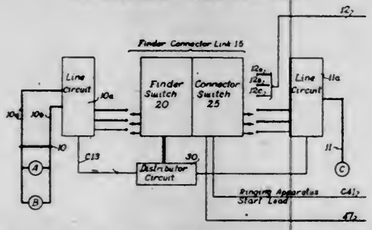
1. In a signal mechanism, a frame member defining part of an opening in an otherwise enclosed structure, a vertically movable barrier extended across the opening, a retainer carried by the barrier, an electric signal circuit including an alarm, and a keeper fixedly mounted on the

frame member, said keeper comprising spaced contact members connected to the respective sides of the circuit, and an insulating member between the contact members, said contact and insulating members having registering tortuous slots opening through one edge of the keeper and leading to openings in the members of the keeper and shaped for the reception of the retainer,



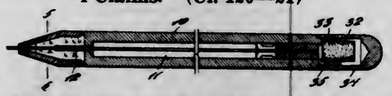
the opening in the insulating member being smaller than the opening in one of the contact members and being positioned and proportioned to define an insulating rib extending inwardly beyond the walls of the openings in the contact members, the retainer and the keeper forming a combined circuit closer and hold-down, the retainer being so located on the barrier as to enter the slots.

2,287,383
TELEPHONE SYSTEM
Clarence Ernest Lomax, Oak Park, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application April 22, 1940, Serial No. 330,977
38 Claims. (Cl. 179—27)



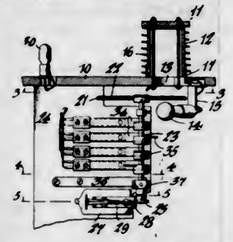
1. In a telephone system, a multiparty subscribers' line, means for selectively signaling the substations associated with said line in setting up reverting call connections between said substations, and means comprising a relay which is energized over said line in response to the answering of a reverting call at one of said substations for transmitting a signal to the answering substation.

2,287,384
PENCIL
Rene Martines, Cranston, R. I.
Application January 23, 1942, Serial No. 427,975
4 Claims. (Cl. 120—21)



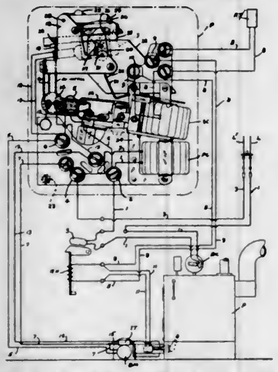
1. A pencil comprising a barrel having an axial bore therethrough, a lead of small diameter in said bore, clutch means at one end of the barrel for gripping and holding said lead, and weighting means attached to said lead and freely axially movable in said barrel bore to serve as the sole means for gravitationally assisting in the movement of the lead through the barrel.

2,287,385
CHANGEABLE LIGHTING DEVICE FOR GAMES
Howard F. Maurer, North Tonawanda, N. Y.
Application October 8, 1940, Serial No. 360,277
6 Claims. (Cl. 273—118)



1. In a device of the character described, a game board over which balls are adapted to roll, an illuminable element mounted thereon and including a yieldable ball-impacting member, a normally open switch including said member as a part thereof and movable to a momentarily closed positon by impact of a ball against the same for illuminating said element in response to each impact, a changeable color unit movably disposed in correlation with said illuminable element for varying its color when moved to different positions, and means operatively connected to said color unit and included in the circuit of said switch for actuating such unit from one color display position to another.

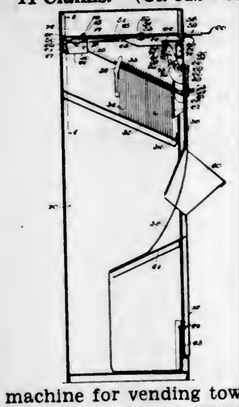
2,287,386
IGNITION CONTROL
Ira E. McCabe, Chicago, Ill.
Application May 7, 1940, Serial No. 333,815
5 Claims. (Cl. 158—28)



1. A control for electrical ignition means employed with electrically operated fluid fuel burners, a burner motor circuit including a control switch, electrically operated means for actuating said switch to open and closed position, an ignition circuit including an electrical ignition device therein, a switch normally urged to closed position connected in the ignition circuit energized through said burner control switch for the electrical ignition device, a normally inactive electro-thermal actuator rendered operative upon the closure of both the burner control and ignition switches, means rendered active by the electrical operated means upon closing the burner control switch to establish an operative connection between the electro-thermal actuator and

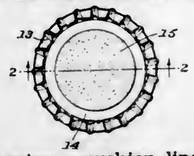
closed ignition switch to cause the opening of the ignition switch by the thermal actuator after a predetermined movement of the actuator and thereafter hold the ignition switch open while the electro-thermal actuator returns to normal inactive position, said means, upon deenergization of the electrically operated means to open the main switch, adapted to remove the operative connection between the thermal actuator and ignition switch and release the ignition switch from its held open position to allow its immediate return to its normally closed position irrespective of the condition of the electro-thermal actuator.

2,287,387
VENDING MACHINE
Harry F. Mayfield, Anderson, S. C., assignor to Barnhardt, Inc., Concord, N. C., a corporation of North Carolina
Application July 27, 1940, Serial No. 347,973
11 Claims. (Cl. 312—37)



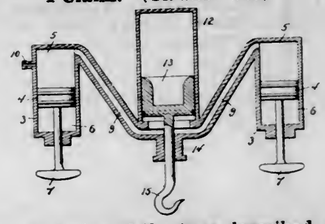
2. In a machine for vending towels or the like having grommets, a case, a grommet receiving rod arranged within the case, a movable dispensing element carried by the rod, a movable closure element to control the withdrawal of the towel passing the dispensing element, means to lock the closure element in the closed position, and common means to actuate the movable dispensing element and the locking means to release the closure element.

2,287,388
CONTAINER CLOSURE
Charles E. McManus, Sprink Lake, N. J., and Giles B. Cooke and Victor A. Ryan, Baltimore, Md., assignors to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York
Application January 8, 1942, Serial No. 426,074
2 Claims. (Cl. 215—39)



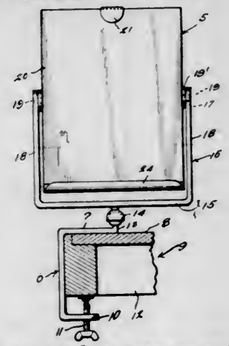
1. A cap having a cushion liner and a facing thereon characterized by freedom from cracking and imperviousness to gases, said facing including a continuous film composed of chlorinated rubber as its major ingredient, a hard resin in substantially lesser amount than the chlorinated rubber and effective to toughen and harden the film and a plasticizer in substantially greater amount than said resin but in substantially lesser amount than said chlorinated rubber and effective to maintain the hard, tough rubber-resin film flexible and resistant to cracking under sealing compression.

2,287,389
BUMPER, ESPECIALLY APPLICABLE TO RAILWAY VEHICLES
Jean Mercier, Paris, France
Original application March 7, 1936, Serial No. 67,715. Divided and this application December 12, 1939, Serial No. 308,886. In France March 12, 1935
1 Claim. (Cl. 213—223)



A bumper device of the type described, for use in connection with a vehicle and especially a railway vehicle, which comprises, in combination, at least two buffers movably carried by said vehicle on either side of the longitudinal axis thereof, two cylinders rigidly carried by said vehicle, pistons movable in said cylinders with a fluidtight fit and rigid with said buffers, respectively, a third cylinder, a piston movable with a fluidtight fit in said third cylinder, passages for interconnecting both of the first mentioned cylinders at their rear ends and the third mentioned cylinder at its front end, a compressible fluid filling the whole of these passages and the chambers of said cylinders that are connected together by said passages, means for elastically opposing displacements of the third piston under the effect of a pressure transmitted thereto by said fluid, said fluid being compressible, and a drag hook rigidly connected to the piston in the third cylinder, the area of the cross section of the third cylinder being substantially equal to the sum of the areas of the cross sections of the two first mentioned cylinders.

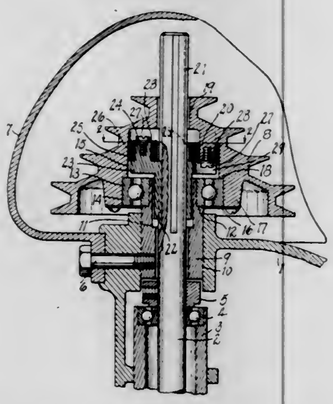
2,287,390
SCORE PAD HOLDER
Maybelle M. Michael, Vero Beach, Fla., assignor of one-half to M. Naquin Byles, Vero Beach, Fla.
Application June 8, 1940, Serial No. 339,553
2 Claims. (Cl. 281—4)



1. The combination of a score pad holder and

support therefor comprising a substantially rectangular plate having its lower edge formed into a combined pad support and pencil trough, said plate having a clamp formed on its upper edge, a U-frame having pivot means at its extremities to pivotally support said plate, and pivot support means connecting said U-frame to a table, whereby said plate may be rotated on a horizontal and a vertical axis.

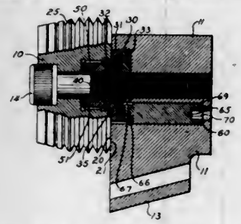
2,287,391
DRILL PRESS
Henry E. Musselman, Kalamazoo, Mich., assignor to Atlas Press Company, Kalamazoo, Mich.
Application March 28, 1941, Serial No. 385,641
14 Claims. (Cl. 77—5)



1. In a drill press, in combination with a drill bearing head having a vertically reciprocal spindle rotatable therein, and a pulley surrounding said spindle at its upper end, said pulley having means associated therewith for rotatably mounting the same on said head, a sleeve-like spindle driving member splined on said spindle at the upper end thereof, said pulley having an axial recess telescopingly receiving said member with radial clearance to permit misalignment of said pulley and member and being apertured coaxially with said recess for the slidable reception of the spindle, driving lugs on said pulley and member disposed internally of said recess, the respective lugs of said pulley and member extending parallel to the axis of the pulley in opposite directions and axially overlapping one another, and a cushion element of elastic compressible material snugly receivable in said pulley recess in surrounding relation to said spindle, said element being fixedly secured to and drivingly engaging said lugs for the elastic transmission of torque between the pulley and member.

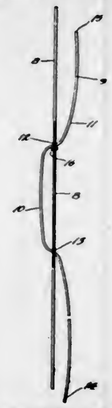
2,287,392
CHASER ASSEMBLY
Frederic Nell, Waynesboro, Pa., assignor to Landis Machine Company, Waynesboro, Pa., a corporation of Pennsylvania
Application May 22, 1940, Serial No. 336,666
19 Claims. (Cl. 10—103)

1. In a thread-cutting device, a chaser holder; a circular chaser assembly mounted on said holder for limited rocking movement about a fixed axis; and means for rocking said chaser about said axis, comprising a self-locking rotatable device, having an eccentric portion, mounted in



said holder and operably connected to said chaser assembly.

2,287,393
PHONOGRAPHIC DEVICE
Ladis H. Ottofy, Chicago, Ill.
Application December 30, 1939, Serial No. 311,711
4 Claims. (Cl. 274—11)

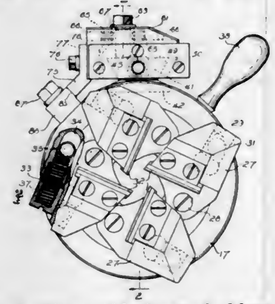


3. In a phonographic device, a sound record strip having a recorded sound track at one side thereof, a sheet sounding diaphragm having an opening through which the strip is inserted and a vibration transmitting member at the edge of the opening, a staple extending from the diaphragm at a distance from the opening for confining an intermediate portion of the strip between the staple and the opening with the sound track engaging the vibration transmitting member at the edge of the opening when the strip is moved through the opening and under the staple, and the opposite side of the strip being drawn against the inner side of the staple when the strip is moved in the intended sound producing direction.

2,287,394
TAPER DIE HEAD
Charles A. Reimschissel, Waynesboro, Pa., assignor to Landis Machine Company, Waynesboro, Pa., a corporation of Pennsylvania
Application May 13, 1940, Serial No. 334,916
14 Claims. (Cl. 10—100)

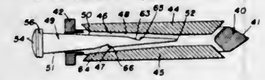
1. In combination, tangential chasers; pivoted chaser-holders carrying said chasers; an oscillatory ring for actuating said holders and chasers; an abutment carried by said ring; and a cam adapted to contact said abutment and being so inclined as to actuate said ring; means adjustably mounting said cam for movement into

various degrees of inclination with respect to said abutment, to compensate for taper errors inci-



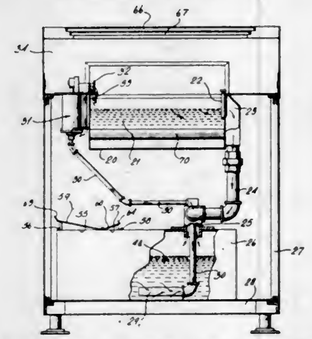
dent to pivoting said chaser holders inwardly or outwardly.

2,287,395
SELF-ANCHORING DEVICE
William R. Reynolds, Chicago, Ill.
Application July 15, 1940, Serial No. 345,462
3 Claims. (Cl. 85—23)



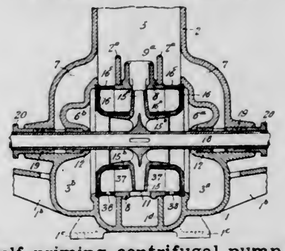
2. In a self-anchoring fastener, the combination with an elongated shank element of substantially non-ductile material, having an inner straight surface and a curved camming surface along the length thereof, an elongated wedging member of non-ductile material disposed longitudinally along said straight inner surface of said non-ductile shank element surface for longitudinal displacement relative to said shank camming surface to effect radial displacement coincident with its longitudinal displacement, and a comparatively ductile elongated shank element complemental to said non-ductile shank element to substantially complete the external engaging surface of said non-ductile shank element with said wedging member disposed therebetween to effect their radial separation.

2,287,396
FAT LEVELING SYSTEM
Ernest J. Roth, Norwood, N. J., assignor to Joe Lowe Corporation, New York, N. Y., a corporation of Delaware
Application May 9, 1941, Serial No. 392,678
2 Claims. (Cl. 53—7)



1. A fat leveling system for a doughnut machine comprising a kettle for containing frying fat, a tank for containing a reserve supply of fat for replenishing the fat in the frying kettle, said tank being positioned beneath the kettle, a circulating pump mounted upon the wall of the kettle, a supply pipe connecting the tank with the intake side of the pump, a delivery pipe connected to the delivery side of the pump and emptying into the frying kettle, an overflow chamber adjoining and opening into said frying kettle, a gate mounted in the opening between said overflow chamber and said frying kettle, said gate being slidably adjustable to different heights to raise and lower the fat level of the kettle to allow excess fat to flow from the kettle into the overflow chamber, and a gravity return pipe connecting with said overflow chamber and extending downwardly therefrom into said reserve tank in close proximity to said supply pipe to utilize the hot fat drained out of the kettle to melt the fat in the reserve tank commencing with that portion of the fat which immediately surrounds the entrance to the supply pipe.

2,287,397
DOUBLE SUCTION LIQUID PUMP
Herbert E. Rupp, Springfield Township, Richland County, Ohio
Application March 29, 1940, Serial No. 326,744
19 Claims. (Cl. 103—113)

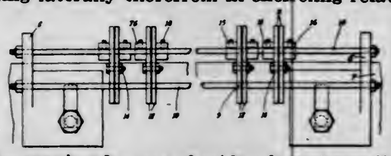


16. A self-priming centrifugal pump having a closed type impeller rotating on a horizontally disposed axis, suction passages at opposite sides of the impeller through which the impeller takes in fluid at its central portion, an annular housing in which the impeller rotates forming around the periphery of the impeller a passage or passages through which fluid discharges from the impeller, a casing enclosing and providing around said housing a chamber in which priming water can be retained at a level substantially higher than the other mentioned parts and from the upper part of which air can discharge during priming, annular chambers adjacent to the periphery of the impeller at opposite sides thereof having apertures for admitting water from said first mentioned chamber, there being clearance between the periphery of the impeller and said housing permitting restricted flow of water from said annular chambers laterally to the periphery of the impeller.

2,287,398
APPARATUS FOR CUTTING CLOTH
John Slingsby Taylor, Macclesfield, England
Application November 14, 1941, Serial No. 419,068
In Great Britain October 30, 1940
1 Claim. (Cl. 164—36)

A cloth cutting apparatus having a pair of transversely extending, non-rigid rods disposed one above the other and in different vertical planes, blade holders supported for sliding movement along said rods and each comprising a pair of right-angled triangular plates having openings

for the passage of said rods, that edge of each of said plates forming the hypotenuse of the triangle being bevelled and each plate having a collar extending laterally therefrom in encircling relation

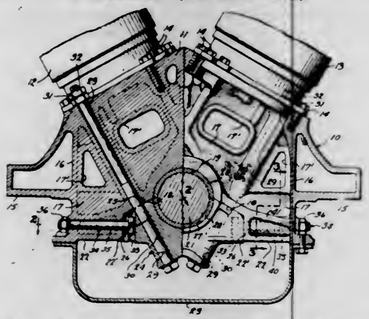


to the opening for one of said rods and a radially extending screw threaded into each of said collars for clamping the plate on said rod, and means for clamping each pair of plates together.

2,287,399
INTERNAL COMBUSTION ENGINE

Marsden Ware, Huntington Woods, and Marvin J. Steele, Detroit, Mich., assignors to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan

Application December 23, 1939, Serial No. 310,676
4 Claims. (Cl. 121—194)



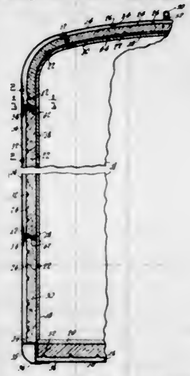
1. An internal combustion engine casing comprising a crankcase shell having angularly disposed pairs of cylinders fixed on the top wall thereof, relatively thin webs formed integral with the shell and extending transversely thereof in planes between the adjacent pairs of cylinders, said webs having a bottom face with a central crankshaft bearing portion and portions adjacent the bearing portion extending outwardly and downwardly, bearing cap structures having faces complementary to and bearing against the outwardly and downwardly extending portions of the bottom faces of the webs, angularly disposed bolts of relatively large diameter extending through the shell, the webs and the cap structures in a relation parallel to the axes of the pairs of adjacent cylinders and outside of the crankshaft bearing portions thereof, means securing the bolts in tension to compress the caps, webs and crankcase adjacent thereto, bolts anchored to the bearing caps outside of the angularly disposed tension bolts and extending horizontally through the webs and the shell, and securing means applied to the ends of the horizontally extending bolts exteriorly of the shell in a relation to place the bolts in tension and holding the portions of the webs and crankcase adjacent the horizontal bolts under compression.

2,287,400
CAR CONSTRUCTION

Edward H. Wells, Jr., New York, N. Y., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York

Application February 16, 1940, Serial No. 319,191
7 Claims. (Cl. 105—423)

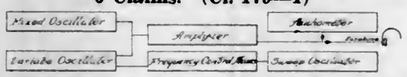
1. A wall structure for railway passenger cars and the like comprising an outer substantially air-impervious sheathing, a substantially continuous inner liner spaced from said sheathing, and defining with said outer sheathing a space closed from the interior of the car, framing members within said space supporting said sheathing and liner, vapor-permeable insulating units within said space and located between said framing members, means at spaced intervals supporting said insulating units against said liner to provide a passageway between said insulating units and sheathing, and means located at spaced points opening said space to communication with the exterior of the car.



2,287,401
ALL-FREQUENCY GENERATOR

Arthur M. Wengel, Madison, Wis., assignor to Ray-O-Vac Company, a corporation of Wisconsin

Application June 17, 1940, Serial No. 341,015
6 Claims. (Cl. 179—1)



1. Apparatus of the character described for producing, for hearing testing purposes, a background sound comprising a substantially uniform distribution of frequencies and a separate single-frequency test note, including: an oscillator having a tuned circuit determining the frequency generated; means for rapidly periodically varying the effective inductance in the tuned circuit through a predetermined range; means for generating a substantially single-frequency note; and means for simultaneously impressing the background sound and the note on the ear being tested.

2,287,402
CORE FOR IMMERSION HEATERS

William H. Wood, South Euclid, and Oscar C. Trautman, Parma, Ohio

Application August 2, 1940, Serial No. 349,906
5 Claims. (Cl. 201—63)

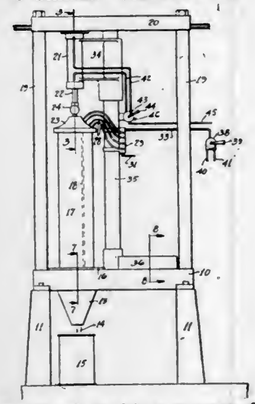


1. A refractory core for a resistance element comprising a number of individual pieces, each precisely alike and constituting a segment of a cylinder, such segment having longitudinal sides that lie in radial planes passing through the same center, the longitudinal sides of one segment abutting the longitudinal sides of another segment and being so arranged that a number of segments form a section of a cylinder, each segment having spaced ribs on its arcuate outer surface, one of said ribs extending radially beyond the other ribs so as to support said segment in a predetermined position with respect to an enclosing member, and all of said ribs extending in planes that are inclined with respect to the axis of said cylinder.

2,287,403
METHOD OF AND APPARATUS FOR TREATING VENEER BLOCKS

Ellsworth S. Young, Skamokawa, Wash.

Application October 10, 1939, Serial No. 298,808
6 Claims. (Cl. 117—59)



2. In the art of making veneer from blocks of veneer logs which contain pitch seams, the steps of conserving such blocks by preventing collapse thereof during the turning operation, which consists in subjecting the veneer block to the pitch dissolving action of a heated fluid and when the pitch seam has been cleared of its pitch, filling such seam with a filler of supporting material of roughly the same resistance to cutting as the wood of the block.

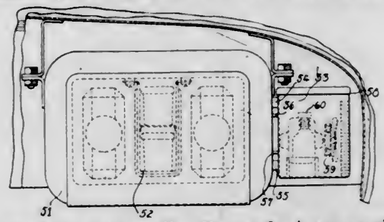
5. In an apparatus for treating veneer blocks containing pitch seams to prevent collapse of such blocks during the turning operation; a grate for supporting a veneer block in vertical position, a tank for holding a filler material to be substituted for the free pitch in the block, a cap to close the upper end of the block, means for transferring the block with its cap from the grate to the tank, and means for delivering a pitch removing fluid thru the cap to the block when the block is supported on the grate and for creating a suction in the cap when the block is within the tank to cause the filler material to rise within the block to replace the removed pitch.

2,287,404
MOBILE COLD STORAGE AND REFRIGERATING APPARATUS

Oscar U. Zerk, Chicago, Ill.

Application May 3, 1938, Serial No. 205,707
8 Claims. (Cl. 62—117)

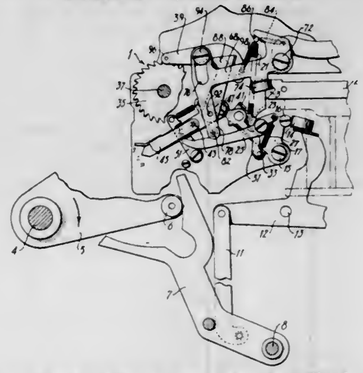
6. The combination with an automotive vehicle including an instrument panel, a cowl and an insulated cabinet and refrigerator apparatus for cooling the interior of the cabinet, the cabinet and refrigerator apparatus being disposed beneath the cowl and between the instrument panel and dash, the refrigerating apparatus adapted to be secured to a portion of the cabinet, and said cabinet adapted to be secured to the instrument panel and to the said cowl, and said cabinet being normally disposed at an angle to the horizontal, and said cowl comprising a portion disposed in superposed spaced relation to said cabinet and being generally disposed on an inclined plane to said panel.



2,287,405
PAPER FEEDING MECHANISM FOR ACCOUNTING MACHINES

Walter A. Anderson, Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware

Application June 26, 1940, Serial No. 342,545
2 Claims. (Cl. 197—129)



2. In a machine of the class described, printing type, a paper-supporting platen having two parts, the parts each being movable into and out of printing position with respect to said type, line spacing mechanism including a spacing wheel connected to each part of the platen, and spacing fingers cooperating with said spacing wheels, manipulative means for regulating the cooperation of the fingers with the wheels, means associated with each spacing finger to prevent its cooperation with its corresponding wheel when its corresponding platen part is out of printing position with said type, means to automatically render said preventing means ineffective when its corresponding platen part moves into printing position with said type, and means operable at the will of the operator for latching said preventing means in ineffective position.

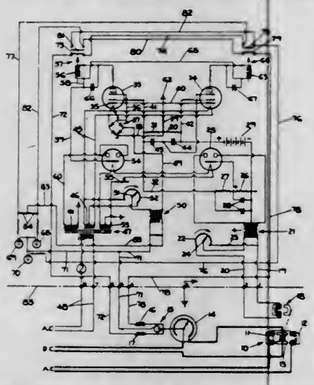
2,287,406
VIBRATION CONTROL APPARATUS

Clyde W. Baird, Columbus, Ohio, assignor to The Traylor Vibrator Company, a corporation of Colorado

Application December 23, 1940, Serial No. 371,314
16 Claims. (Cl. 172—240)

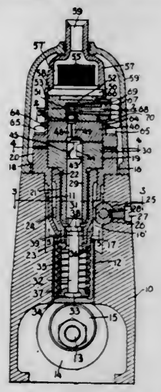
1. Vibratory control apparatus comprising a

vibratory electro-magnetic motor, means for maintaining the amplitude of vibration thereof at a substantially predetermined fixed value comprising means for controlling the current flow to said motor, mechanism for producing a voltage proportional to the amplitude of vibration of said



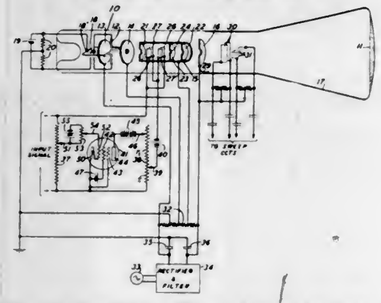
vibratory motor, means for matching the produced voltage with a standard voltage, and mechanism responsive to both positive and negative differences between said produced voltage and said standard voltage to adjust said motor current controlling means.

2,287,407
FUEL PUMP
David B. Baker and Raymond E. Peterson, Riverside, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application April 20, 1940, Serial No. 330,749
13 Claims. (Cl. 103—41)



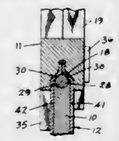
1. In injection fuel pump construction and in combination a sleeve having a shoulder at one end thereof and an internal bearing portion, a piston control member rotatably mounted in said sleeve, said member having an external bearing portion journaled in the bearing portion of the sleeve, said member having gear teeth formed thereon and said sleeve being provided with an opening at the side thereof for engagement of a driving member with said gear teeth, and a cylinder depending in the control member in spaced relation with respect thereto, and having a flanged head portion mounted on the shoulder of said sleeve.

2,287,408
MODULATING AND COMPENSATING APPARATUS
Millard W. Baldwin, Jr., Glen Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 31, 1940, Serial No. 348,604
7 Claims. (Cl. 178—7.5)



1. In combination with a device having control means and being characterized by a partly non-linear relation between input signals applied to said control means and output signals of said device, an impedance element having at least two terminals, one of said termnials being connected to said control means, a discharge device having input terminals and output terminals, said output terminals being connected to two terminals of said impedance element, said discharge device and impedance element constituting together means for compensating for distortion in said output signals due to said non-linear relation, said last-mentioned means having a characteristic related to the departure of the characteristic of said first-named device from linearity, means for applying said input signals to said input terminals to produce a voltage drop across said impedance element, means for applying said input signals to said impedance element and said control means in series in a sense such that the control means voltage due to said last-named voltage stands in additive relation to the control means voltage due to said input signals, and means for biasing said discharge device to be operative over a portion of the input signal range in which the characteristic of said first-named device is non-linear and inoperative over another portion of said range in which said characteristic is linear, whereby the over-all characteristic of said first-named device and said compensating circuit, taken together, is linear.

2,287,409
LEATHER GOODS EDGE PRESSING DEVICE
Samuel Biawitz, Flushing, N. Y.
Application February 5, 1942, Serial No. 429,627
11 Claims. (Cl. 69—8)



1. In combination with a press, cooperative heated dies adapted to open and close, one of said dies being internal and fashioned to engage inside of said leather case, the other of said dies being external and adapted to engage outside of said leather case and having a groove into which the edge of the case enters, and a strip of slightly compressible material mounted on the edge of said internal die and comprising a counter pressure portion against which said external die engages to press the edges of said leather goods.

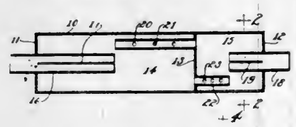
2,287,410
ADHESIVE
Ernest R. Boller, Twinsburg Township, Summit County, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 17, 1940, Serial No. 370,479
11 Claims. (Cl. 106—84)

1. In a process for producing a sodium silicate-clay adhesive, the steps comprising agitating china clay, in an amount equivalent to about from 5 to 12 per cent by weight of the adhesive, with an aqueous solution of a deflocculant for the clay to obtain a fluid clay slip and adding the slip to an amount of concentrated sodium silicate solution such that the sodium silicate solids content of the final composition is from about twenty-four to thirty-eight per cent by weight with a degree of agitation at the point of mixing such that dispersion of the clay in the silicate is effected without flocculation of the clay, the mixture being subjected to a temperature of about from 160 to 310° F.

2,287,411
ADHESIVE
Ernest R. Boller, Twinsburg Township, Summit County, and Raymond F. Remler, Lakewood, Ohio, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 19, 1940, Serial No. 370,806
4 Claims. (Cl. 106—84)

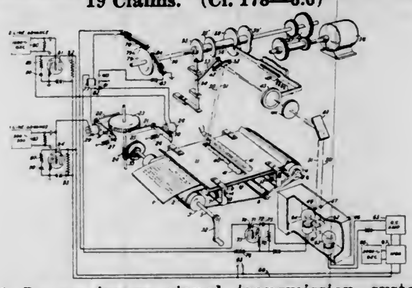
1. In a process for producing china clay-silicate adhesives the step comprising effecting admixture of sodium silicate with china clay in an aqueous medium at a temperature of from about 115 to 162° C. and a super-atmospheric pressure of from about 10 to 80 pounds per square inch, the proportions of water and sodium silicate glass being such as to give an ultimate product having a specific gravity of about from 35 to 45° Bé. after all the glass has dissolved with the clay present, and the clay being present in the proportion of one part of clay for about from 1.6 to 12 parts of glass.

2,287,412
SILENCER
Roland B. Bourne, West Hartford, Conn., assignor to The Maxim Silencer Company, Hartford, Conn., a corporation of Connecticut
Application December 26, 1940, Serial No. 371,603
15 Claims. (Cl. 181—57)



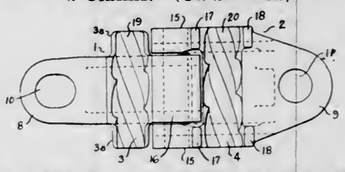
1. A silencer comprising a casing, a partition within the casing dividing it into two chambers, a conduit extending from the partition into one of said chambers only, a second conduit extending from the partition into the second named chamber only, and conduits for the introduction of gas into one of the chambers and for the exhaust of gas from the other of said chambers.

2,287,413
FACSIMILE SYSTEM
Edmond Bruce, Red Bank, and William Herriott, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 31, 1940, Serial No. 363,598
19 Claims. (Cl. 178—6.6)



1. In an image signal transmission system, means for scanning an elemental line of a field to be transmitted and deriving image signals therefrom, means for scanning another like elemental line of said field in advance of said first-named line and deriving auxiliary signals therefrom, and means for advancing said field relatively to both of said scanning means under control of said auxiliary signals.

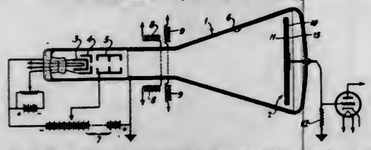
2,287,414
CABLE CLAMP
Arthur W. Buckner, Houston, Tex.
Application June 1, 1940, Serial No. 338,315
2 Claims. (Cl. 24—132)



1. A cable clamp comprising a pair of clamp members having outwardly arched, intermediate jaws whose inner sides are recessed for accommodating cables to be clamped together, one of said clamp members being wider than the other and being provided, at one end, with spaced bearings located at its margins and having a pair of spaced horns at each of said margins, the horns of each pair being on opposite sides of said jaw, the other clamp member being of substantially uniform width throughout the major portion of its length and being of much greater width than thickness and having a single bearing fitted closely between said spaced bearings and of a length equal to the width of its clamp member and of a length greater than the total length of the spaced bearings, a pin extending through said bearings, the ends of said clamp members remote from said bearings being formed into ears having bolt holes therethrough which register when said clamp members are in clamping relation about a cable, the jaw of the narrower of said clamp members being extended each way forming side extensions which fit between the horns of the corresponding pairs when the clamp

members are in clamping relation and whose ends are flush with the outer sides of the corresponding horns, a clamp bolt through the holes of said ears provided with a clamp nut whereby said clamp members may be drawn together to clamp a cable between them.

2,287,415
CATHODE RAY SIGNAL GENERATOR
Carlos E. Burnett, Maplewood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 15, 1939, Serial No. 309,396
7 Claims. (Cl. 250—164)

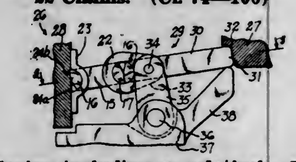


1. A cathode ray signal generator tube including an electron gun for developing a beam of electrons and a target adapted to be scanned by said beam, said target comprising a foundation capable of liberating more than one secondary electron for each electron from said beam impinging thereon and a composite coating over a portion of said foundation including a homogeneous mixture of at least two materials having similar secondary electron emitting properties and capable of liberating fewer secondary electrons than said foundation for each electron from said beam impinging thereon.

2,287,416
PRODUCTION OF IMPROVED PIGMENTS
Curtis Marshall Dann, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 2, 1940, Serial No. 332,979
6 Claims. (Cl. 106—309)

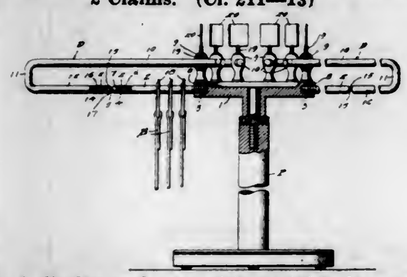
1. In a process for the production of pigments adapted for direct use through simple mix-in coating compositions and having a mix-in particle size value not in excess of substantially 15 microns, the steps which comprise displacing substantially all the water from a pigment water mixture with a non-aqueous volatile organic hydrophilic liquid, adding to the resulting dewatered pigment a polar-nonpolar compound, and thereafter removing the non-aqueous solvent liquors from the substantially non-aqueous treated pigment by evaporation.

2,287,417
TOGGLE
Peter De Mattia, Passaic, N. J.
Application February 11, 1941, Serial No. 378,388
22 Claims. (Cl. 74—106)



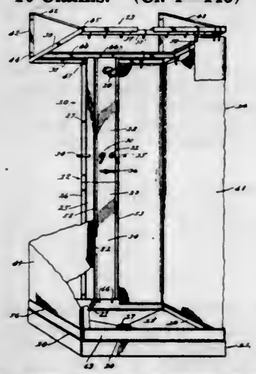
1. A device including a relatively fixed first member, a reciprocable second member for delivering a power stroke, a toggle whereof one link is connected to the second member and the other link is separably engageable with the first member, actuator means for expanding and collapsing the toggle and for reciprocating the toggle to an extent less than the path of movement of the second member, the separable link being adapted to move laterally away from the first member in the collapsing position of the toggle, said actuator means causing said lateral movement of the separable link and causing the connected link to retract the second member, the actuator means causing the connected link to initially advance the second member and moving the separable link into engagement with the first member and finally causing the toggle to move substantially to dead center position, and stop means for limiting the lateral movement of the separable link to cause the toggle to assume a predetermined expanding position.

2,287,418
DISPLAY DEVICE
Christopher William Dudley, Bennettsville, S. C.
Application December 1, 1941, Serial No. 421,257
2 Claims. (Cl. 211—13)



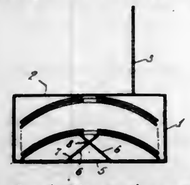
1. A display rack comprising a table, bars carried by the table and extending outwardly and substantially radially therefrom and spaced circumferentially around the table, upstanding posts carried by the table adjacent to the inner end of each of the bars, a second elongated bar freely insertible through a hole in each of the posts, said second bar being of a length to extend beyond the outer end of an adjacent first bar, the outer end of the second bar being continued by a depending bar and a returned bar in longitudinal alignment with the adjacent first bar and terminating closely adjacent thereto.

2,287,419
SHOWER CABINET
Montague H. Duval, Great Neck, N. Y.
Application September 30, 1940, Serial No. 359,150
10 Claims. (Cl. 4—146)



1. In a shower cabinet, a receptor having upwardly extending side walls, a shower curtain, means for supporting said curtain so that its lower edges terminate within the receptor, a curtain engaging strip loosely slidable on said receptor, and means to detachably secure the curtain to the strip whereby a water-tight and floating connection is provided between the receptor and curtain.

2,287,420
PAPER SHEET DISPENSING CARTON
William E. Edmonston, Chappaqua, N. Y., assignor to Riegel Paper Corporation, New York, N. Y., a corporation of New Jersey
Application October 30, 1940, Serial No. 363,512
4 Claims. (Cl. 206—57)



1. A paper sheet dispensing carton having an opening in one wall through which individual sheets may be withdrawn, and a follower forming a portion of the opposite wall, said follower comprising a pair of interlocking sections formed by scoring the wall, the interlocking sections being adapted to be folded into the carton in angular position and engaging each other to retain them in such position.

2,287,421
STABILIZATION OF HALOGENATED COMPOUNDS
Lawson Egerton, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 14, 1940, Serial No. 365,635
16 Claims. (Cl. 175—41)



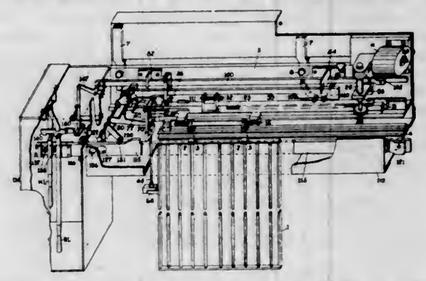
1. A halogenated organic compound which by virtue of its halogen content tends to corrode metallic bodies when maintained in contact with them at elevated temperatures and under an electric potential, said halogenated compound containing a small percentage of selenium.

7. A condenser armature comprising foil of a metal selected from the group consisting of aluminum and tin having on its surface a film of a substance selected from the group consisting of sulphides of said metal and selenides of said metal.

11. An electric capacitor comprising armatures formed of a metal selected from the group consisting of aluminum and tin separated by a dielectric comprising a halogenated organic compound containing a small percentage of a substance selected from the group consisting of sulphur and selenium.

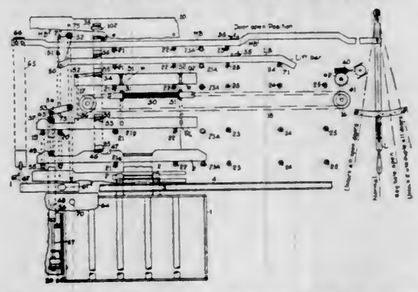
2,287,422
SYSTEM AND APPARATUS FOR OPERATING PRISON CELL DOORS
Oscar S. Field, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application July 12, 1939, Serial No. 284,077
48 Claims. (Cl. 189—7)

41. In a system for locking and operating prison cell doors, a unitary power mechanism for each door including a reversible electric motor and means driven thereby for automatically operating the lock bolt of the door and moving the door to either its closed or open position, said motors each having opening and closing control circuits for causing operation thereof to open or close the door, a master switch at a remote control point manually operable to a door opening and a door closing position, a plurality of manually operable individual control switches one for each door located at the same remote control point and remaining in the position last operated for the desired control until subsequently changed, each of said individual control switches being operable to render the energization of the motor control circuits for the corresponding door



dependent upon the operated position of said master switch, whereby any plurality of doors may be selected by positioning the corresponding individual control switches as a group to be simultaneously opened or closed by the master switch, each of said individual control switches being also operable to control the energization of the associated motor control circuits to open or close the corresponding door by itself independently of the operated position of the master switch and the individual control switches for all other doors, whereby any selected door may be opened or closed by itself in response to the manipulation of the corresponding individual control switch while any selected group of doors is subject to simultaneous operation by manipulation of the master switch.

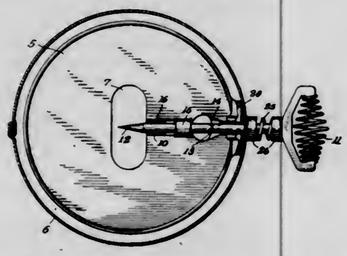
2,287,423
SYSTEM AND APPARATUS FOR OPERATING PRISON CELL DOORS
Oscar S. Field, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application June 14, 1940, Serial No. 340,434
36 Claims. (Cl. 189—7)



1. Prison door operating and locking means comprising in combination, a casing, two operating bars of general rectangular cross-section

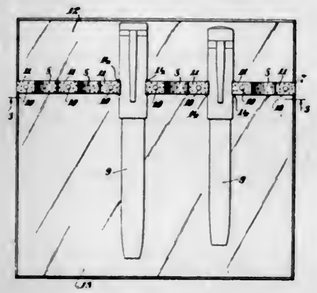
standing on edge one against the other and mounted for horizontal endwise movement in said casing either separately or together, one of said bars being notched at the top, a coupling member pivotally connected to the other of said bars to engage the notch of said one bar when said coupling member assumes its active condition and said bars are in registration, the engaging portion of said coupling member being narrower than said notch to afford lost motion, a door, means for operatively connecting said door to said one bar for sliding movement therewith, a motor which may be operated in either of two directions, a lock bolt, means for operating said lock bolt to its unlocking position operated by said other bar as permitted by said lost motion before said coupling member operates said one bar during opening movement of said other bar, and interconnecting mechanism between said motor and said other bar whereby said motor may operate said other bar and in turn said one bar and said door through the medium of said coupling member, said interconnecting mechanism being constructed so that said motor can operate said other bar but said other bar cannot operate said motor, whereby said door may be operated by said motor and inter-connecting mechanism to any position and held in that position, may be locked by said lock bolt in the closed position, or may be released for hand operation by disengagement of said coupling member.

2,287,424
DAMPER
Thomas Fletcher, Ravenna, Ohio, assignor to The A. C. Williams Company, Ravenna, Ohio, a corporation of Ohio
Application September 20, 1940, Serial No. 357,574
3 Claims. (Cl. 126—292)



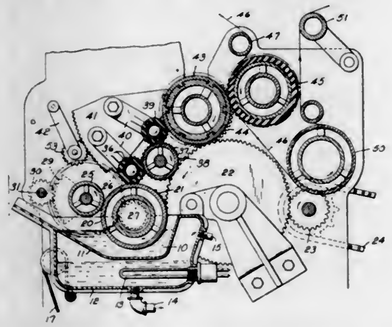
2. In a damper, the combination of a damper plate, a removable spindle mounted in locking position therein, a handle attached to the spindle for rotating the damper plate and a stove pipe in which the damper is mounted for rotation, said stove pipe being substantially circular in cross-section; a large bearing on the damper plate, the bearing surface of which is curved substantially in accordance with the curvature of a segment of a sphere struck from a center substantially coincident with the center of curvature of the cross-section of the stove pipe, said bearing being provided with an opening extending from the outside substantially to the center thereof through which the spindle passes to locking position substantially central of the bearing; and resilient means for maintaining the bearing in rotatable position against the inner face of the stove pipe; the construction and arrangement being such that the damper is substantially self centering in the stove pipe in open, closed and intermediate positions with the spindle passing through only one side thereof.

2,287,425
DISPLAY HOLDER
Joseph H. Fox, New York, N. Y.
Application August 27, 1941, Serial No. 408,445
2 Claims. (Cl. 211—60)



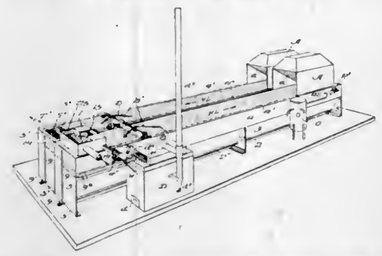
1. A holder for the display of articles such as fountain pens, said holder comprising a wooden base having a groove across the face of the same, a strip of sponge rubber seated on-edge in said groove, said strip having notches in the outer exposed edge of the same of a size to compressibly grip the fountain pens or other articles entered therein and resilient pins driven in through the exposed edge of the strip, between said notches into the material of said wooden base at the bottom of said groove.

2,287,426
HOT CARBON SPOTTING APPARATUS
Louis F. Hageman, Niagara Falls, N. Y., assignor to American Sales Book Company, Inc., Niagara Falls, N. Y., a corporation of Delaware
Application November 19, 1938, Serial No. 241,386
5 Claims. (Cl. 91—50)



1. Apparatus for applying isolated carbon spots to moving stationery comprising, a dope roll for raising melted carbon material from a supply thereof, a regulating roll cooperating with the dope roll for controlling the amount of material carried forward by the dope roll, means for rotating said dope and regulating rolls at different surface speeds relative to each other, a plate cylinder for transferring said carbon material to the stationery, means operating independently of the regulating roll for conveying the carbon material from the dope roll to the plate cylinder, an impression cylinder and means for rotating said plate and impression cylinders at different surface speeds relative to each other.

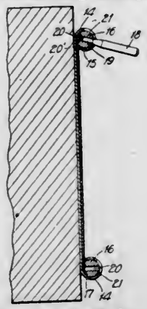
2,287,427
SYSTEM OF WATER PURIFICATION AND WASTE DISPOSAL
Charles Gilbert Hawley, Chicago, Ill.; Hope Hawley Degenhardt and Virginia Taylor Hawley, executrices of Charles Gilbert Hawley, deceased, assignors, by mesne assignments, to Hawley Engineering Corporation, Cleveland, Ohio, a corporation of Ohio
Application January 15, 1937, Serial No. 120,792
2 Claims. (Cl. 210—2)



1. In a system practiced as herein described, two readily movable tanks set side-by-side and devoted respectively to primary and secondary sedimentation, in combination with an influent well, means for feeding raw sewage to the well, a continuous rotary screen and a screening conveyor removably positioned upon the head of the primary tank, conduit means for conducting the sewage from the well, through the screen and into the primary tank, a mechanism partly positioned in said well and controlling the rotation of said screen in inverse relation to the sewage level in said well, a scum skimmer at the foot of each said tanks, an effluent outfall at the foot of the secondary tank, aeration chambers respectively mounted upon the foot of the primary tank and the head of the secondary tank, a high speed sewage sub-dividing and elevating rotor positioned to remove sedimented sewage from the foot of the primary tank and, in the form of a fine spray, direct it upward into the aeration chamber thereon, a cross trough positioned in the primary chamber for the reception of the falling sewage, a similar rotor and a trough having lower and upper separated channels positioned in the head portion of the secondary tank beneath the aeration chamber thereon, means for rotating each of said rotors, the lower channel of the second trough receiving sewage from the first mentioned trough and directing the sewage to the second rotor while the upper channel of said second trough receives the sawage falling in the second aeration chamber, and feeds it into the main body of sewage in said secondary tank, a furnace adjacent said tank, having a movable foraminous desiccator therein, to which the screenings are fed by the screening conveyor, means to discharge sludge from the bottoms of the tanks to the desiccator, an offtake flue from the furnace, a condenser connected to the offtake flue, and means to move the desiccator to agitate the material fed thereto and deliver it to the furnace.

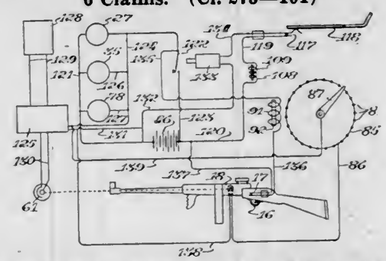
2,287,428
PRICE TICKET HOLDER
Leo Hopp, New York, N. Y., and William Dill, Newark, N. J., assignors to The Hopp Press, Incorporated, New York, N. Y., a corporation of New York
Application January 30, 1941, Serial No. 376,560
4 Claims. (Cl. 40—17)

2. A price ticket holder comprising a main body portion, resilient retaining flanges extending along opposite edges of the main body portion, and ticket clamping means carried by one of the resilient retaining flanges, said clamping



means comprising a rigid bar enclosed within the retaining flange and rotatable therein to positions to clamp and release a ticket mounted in the holder, and means for rotating said rigid bar within the retaining flange.

2,287,429
ELECTRIC SHOOTING RANGE
Donald E. Hooker and Frank G. Nicolaus, Chicago, Ill., assignors to Raymond T. Moloney, Chicago, Ill.
Original application August 10, 1940, Serial No. 352,152. Divided and this application January 29, 1941, Serial No. 376,524
6 Claims. (Cl. 273—101)

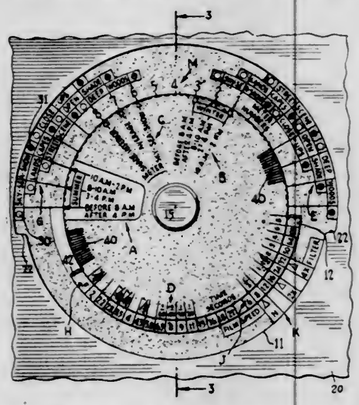


1. In a target apparatus comprising a track, a carriage on the track, a motor to move the carriage along the track, a target movably carried in relation to the carriage and including a photo-electric cell, a second motor to drive the target relative to the carriage, a light shooting element including an electric lamp, a rotary wiper switch, a third motor to drive the switch and establish contacts to light the lamp, and a switch to control operation of the rotary wiper switch.

2,287,430
CALCULATOR
George Kende, New York, N. Y., and Philip J. Brownscombe, East Orange, N. J., assignors to Universal Camera Corporation, New York, N. Y., a corporation of Delaware
Application December 3, 1938, Serial No. 243,746
3 Claims. (Cl. 235—88)

1. An exposure calculator for cameras comprising a flat bottom disc, a flat top disc and a bowed middle disc, said discs being relatively rotatable about a common axis, the apex of said bowed middle disc being in frictional contact with said top disc adjacent said common axis and the base of said bowed middle disc being in frictional contact with said bottom disc remote

from said common axis so that the frictional contactive force between said middle disc and said top disc is substantially smaller than the



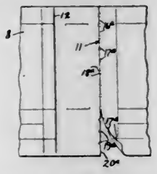
frictional contactive force between said middle disc and said bottom disc for the purposes set forth.

2,287,431

SEVERANCE STRUCTURE FOR MANIFOLDING STATIONERY

James Gordon Kerr, Washington, D. C., assignor to Gilman Fanfold Corporation, Niagara Falls, N. Y., a corporation of Delaware

Application November 7, 1940, Serial No. 364,685
4 Claims. (Cl. 282—19)



1. In a manifolding assembly, in combination, a plurality of continuous interleaved manifolding strips having longitudinally spaced transverse weakened severance lines along which the assembly may be severed into leaf lengths, each said severance line including spaced elongated cuts extending through the strip and aligned along the line, and ties extending transversely of each said severance line and positioned between respective adjacent said cuts and having opposing strip attachments of different strength, said strip attachments of each tie being spaced apart longitudinally of the assembly to cause said ties to be elongated longitudinally of the assembly to facilitate assembly folding, said opposing strip attachments of each said tie being offset in opposite directions from the course of the said cuts of each said severance line, said assembly being folded along said severance lines into a zigzag pack.

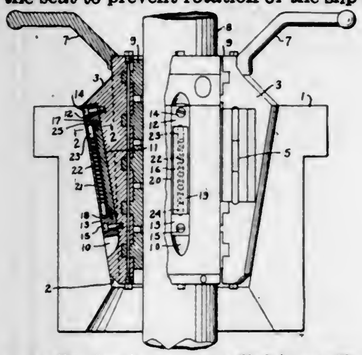
2,287,432

PIPE HOLDING SLIP

Robert B. Kinzbach, Houston, Tex.

Application December 7, 1940, Serial No. 368,993
14 Claims. (Cl. 24—263)

1. A pipe holding slip shaped to fit into a slip seat and to surround a pipe through the seat, means housed within the outer side of the slip and pivotally connected thereto and engageable with the seat to prevent rotation of the slip in the



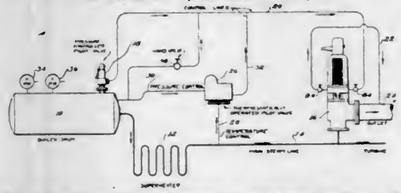
seat and effective to cause radial inwardly pressure of the slip against the pipe held thereby.

2,287,433

SYSTEM FOR SAFEGUARDING THE OPERATION OF STEAM BOILERS

Erling Klafstad, Melrose, Mass., assignor to Crosby Steam Gage & Valve Company, Boston, Mass., a corporation of Massachusetts

Application March 21, 1938, Serial No. 197,089
1 Claim. (Cl. 122—479)



Means for safe guarding a steam system having a boiler and superheater, comprising a safety valve venting directly from the drum of the steam boiler at a predetermined pressure, a second and spring-loaded safety valve venting from the steam line at the delivery side of the superheater and set to vent through the spring load at a predetermined and lower pressure than the drum safety valve, an independent pilot valve connected with the steam drum and set to operate at a predetermined pressure lower than the setting of the drum safety valve, a pressure chamber associated with the superheater safety valve, connections for delivering steam from the drum to the pressure chamber when the pilot valve opens, and a piston within the chamber and connected with the spindle of the superheater safety valve and of sufficient area to augment the lifting pressure exerted by the superheated steam and invariably cause operation and venting of the superheater safety valve independent of the spring load upon opening of the pilot.

2,287,434

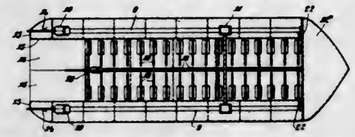
FLOATING DRYDOCK

Charles O. Knudsen, Brooklyn, N. Y.

Application October 7, 1940, Serial No. 359,999
3 Claims. (Cl. 114—45)

2. A ship salvaging floating drydock, comprising a submersible hull having a buoyant center section and buoyant side sections, said buoyant center section having a permanent deck for drydocking purposes and an open bay at one end of the same between the buoyant side sections

for entry of a ship to be salvaged and to be drydocked on said deck, said buoyant side sections rising above said buoyant center section at opposite sides of said drydocking deck, elevated trackways on top of said upstanding buoyant side sections and extending along opposite sides of



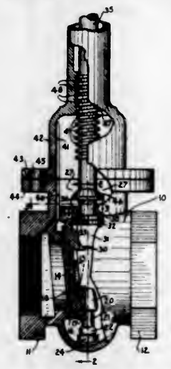
said open bay, removable and replaceable decking over said bay and coextensive with the permanent decking to afford drydocking facilities the full length of the hull and a bridge crane operable along the elevated trackways on top of said buoyant side sections and over said bay to service the full length of said drydock.

2,287,435

VALVE

Arthur J. Koon, Grand Rapids, Mich., assignor to Jacob R. Wiggers, Grand Rapids, Mich.

Application August 16, 1940, Serial No. 352,835
8 Claims. (Cl. 251—68)



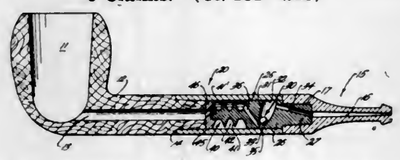
1. A valve comprising a casing having a seat, a disk movable to a position in front of and a second position away from said seat, and means for urging the disk laterally against the seat, said means comprising a plurality of spheroid segmental wedges located at or near the periphery of the disc, the disk being formed with conical seats for slidably receiving the wedges, said wedges being free to rotate about their longitudinal axes for the purpose described.

2,287,436

GRAVITY BALL CHECK DEVICE AND SELF-CLEANING CONDENSER FOR SMOKERS' PIPES OR CIGARETTE HOLDERS

Harry Korn and Max Korn, Los Angeles, Calif.

Application March 23, 1940, Serial No. 325,624
6 Claims. (Cl. 131—213)



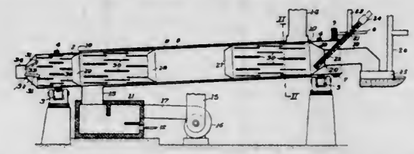
6. In a smoking appliance the combination of a sleeve, a block-like structure fitted therein and having transverse smoke passages interconnecting at opposite sides of the block and on the inside of the sleeve, a condenser connected to the block provided with a head with a sliding fit in the sleeve, there being a smoke passage through said head, the head having a collar connected thereto adapted to retain a filter aligning with the end of the said smoke passage, one end of the block being adapted for attachment of a pipe stem having a bowl with a smoke duct through the stem leading to the collar.

2,287,437

LOW TEMPERATURE CARBONIZATION OF COAL

Carl E. Lesher, Ben Avon Heights, and John B. Goode, McDonald, Pa., assignors to Pittsburgh Coal Carbonization Company, Pittsburgh, Pa., a corporation of Delaware

Application January 26, 1940. Serial No. 315,718
10 Claims. (Cl. 202—9)



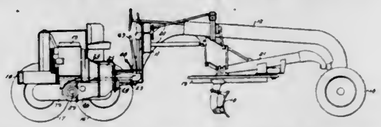
5. A process of low temperature carbonization of coking coal to form balls of semi-coke comprising heating to a temperature not substantially lower than about 600° F. and not substantially higher than about 800° F. a mixture of coking coal and breeze and tumbling said heated mixture and advancing the same at an average speed of less than 10 feet per minute to preheat said mixture in a first zone and reduce the coal to plastic state and continuing said tumbling and heating to form the coal into balls in a second zone and at least partially temporarily segregating in the direction of movement the tumbling mixture in said respective zones.

2,287,438

BRAKE MECHANISM

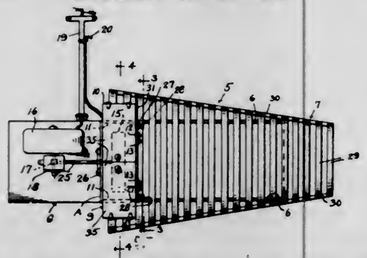
Horace W. Lindsay, La Porte, Ind., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application September 29, 1941, Serial No. 412,800
9 Claims. (Cl. 37—156)



9. In a grader, a wheeled frame, a moldboard mounted on said frame, a pair of tandem cases pivotally mounted on said frame, a propulsion system for said grader comprising an engine, two pairs of driving wheels mounted in tandem on said cases, and transmission means connecting said engine with said driving wheels, and means for decelerating said grader while maintaining said moldboard at a substantially constant height comprising a brake connected between said transmission means and said frame, at least one pair of brakes connected between one of said pairs of driving wheels and said tandem cases, and common means for applying the first and second said brakes.

2,287,439
MACHINE FOR CLEANING FRINGES ON DOMESTIC CARPETS AND ORIENTAL RUGS
Hrach Lucassian, Chicago, Ill.
Application October 17, 1940, Serial No. 361,632
9 Claims. (Cl. 15—40)

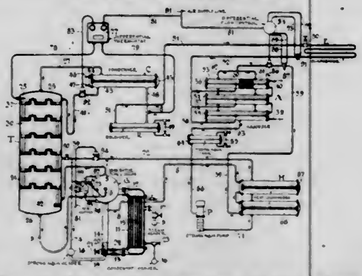


1. A floor traversing machine for cleaning the fringe only on rugs and carpets the combination of, a wheeled chassis, a cleaning solution tank mounted on the chassis, means carried by the chassis for raising and directing the fringed edge of a rug over the solution tank, means operable in the tank for successively scrubbing the bottom and top of the fringe and means disposed over the tank for wiping the solution off the fringe prior to delivery back on the floor.

2,287,440
PROCESS OF MAKING PIGMENT MATERIAL
Ray L. McCleary, Richardson Park, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 16, 1939, Serial No. 262,184
6 Claims. (Cl. 83—94)

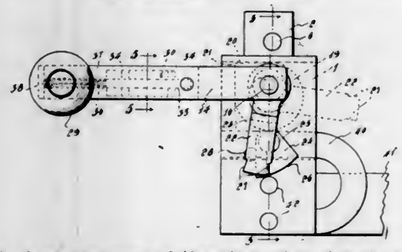
1. In a process for producing an improved extender material the steps which comprise taking a calcite ore comprising iron disulfide, said ore being in the form of a coarse powder, and heating it at a temperature between about 425° C. and about 550° C. to develop magnetic susceptibility and thereafter passing it through a magnetic separator.

2,287,441
ABSORPTION REFRIGERATION SYSTEM
Walter R. McGinnis, York, Pa., assignor to York Ice Machinery Corporation, York, Pa., a corporation of Delaware
Application June 13, 1939, Serial No. 278,949
13 Claims. (Cl. 62—5)



8. In a refrigeration system of the absorption type, comprising a generator, a condenser, an absorber, an evaporator, and means for conveying refrigerant from the generator to the evaporator; a bubble tower interposed between the generator and condenser and having a plurality of bubble plates, said tower serving to rectify and to cool the ammonia vapors passing upwardly therethrough; means for supplying substantially anhydrous ammonia liquid from said condenser to said bubble tower adjacent the top thereof to flood certain of the plates with liquid ammonia; means for returning one portion of the strong aqua from the absorber to the generator; means for returning another portion of strong aqua to an intermediate point in said bubble tower; means for controlling the supply of said anhydrous ammonia to said tower in accordance with the temperature differential between the liquid ammonia flowing from the condenser and the ammonia vapor leaving the tower; and means for maintaining a predetermined ratio between the weak aqua and the ammonia vapor flowing to the absorber.

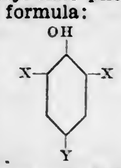
2,287,442
ROTARY TYPE CAN OPENER
Robert E. McLean, Fort Benning, Ga.
Application September 3, 1941, Serial No. 409,419
15 Claims. (Cl. 30—9)



1. A can opener of the character stated, comprising a body member, a knife carried thereby, a can flange engaging driving wheel rotatably supported on the body member for movement relative to the knife, a thrust element having operative connection with said wheel for imparting movement thereto relative to the knife, the thrust element having operative connection with the body member, a lever means operatively connected with the thrust element for effecting movement of the latter, a crank connected with said wheel for imparting rotary motion thereto, and means carried by the crank for intermittent connection with the lever upon turning of the crank and wheel to effect oscillation of the lever and actuation of the thrust means for moving the wheel relative to the knife.

2,287,443
OCTYL-HALO-PHENOLS
Lindley E. Mills, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application March 28, 1940, Serial No. 326,471
7 Claims. (Cl. 260—623)

1. A tertiary-octyl-halo-phenol having the following structural formula:

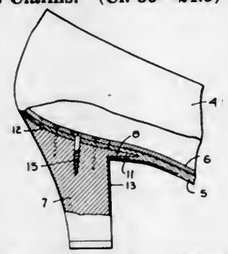


wherein one X represents halogen, the other X represents a member of the group consisting of halogen and hydrogen, and Y represents a tertiary-octyl radical.

2,287,444
PROCESS FOR OBTAINING CLEAR EXTRACTS FROM SEMILIQUID MIXTURES
Max Rudolf Morgenthaler, Vevey, Switzerland, assignor, by mesne assignments, to Inredeco, Inc., Panama City, Panama, a corporation of Panama
No Drawing. Application December 3, 1940, Serial No. 368,320. In Germany April 4, 1938
5 Claims. (Cl. 99—22)

1. A method of clarifying an aqueous extract of a food, said extract containing finely divided solid particles in suspension, which consists in transforming said extract into a paste with the use of gelatinized starch, then refrigerating said paste to freeze the water thereof, then thawing said paste to liquefy the water thereof, then mechanically separating the water and the substances which are dissolved therein from the gelatinized starch, sufficient gelatinized starch being thus used to retain substantially all said solid particles during said separation.

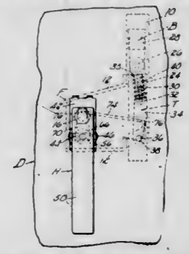
2,287,445
SHOE AND HEEL CONSTRUCTION
Joseph Palumbo, Columbus, Ohio, assignor of one-half to Vulcan Corporation, Portsmouth, Ohio
Application May 25, 1940, Serial No. 337,243
3 Claims. (Cl. 36—24.5)



1. A shoe comprising an upper structure, a sole, a heel having a lip projecting forward from the upper margin of the breast thereof, said lip presenting a downward projecting convexed bottom face having its mid portion flat, a heel retaining lip of generally semi-circular form struck up from said sole and engaging the lower face of said lip and tapering outwardly in thickness to a thin outer marginal edge and so shaped and positioned upon said flat portion of the lip that it will affect a smoothly curved bottom face upon the lip and covering means struck up from said sole overlying said lip and flap to present a finished appearance to the shoe bottom.

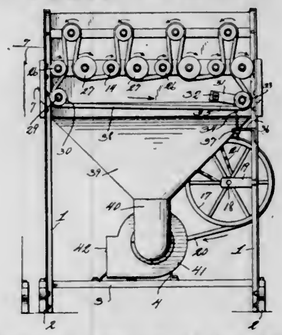
2,287,446
REFRIGERATOR LATCH MECHANISM
Stuart W. Parsons, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a corporation of Connecticut
Application July 30, 1940, Serial No. 348,462
2 Claims. (Cl. 292—167)

2. A refrigerator latch including a bolt supported on the interior of a door, a handle operably mounted on the exterior of the door for pivotal movement in a plane at right angles to said door, means for operatively connecting the handle to the bolt and including a bushing having an airtight fitting in an aperture in the door, a shaft extending through said bushing and rotatably journalled therein, the tolerance between said bushing and shaft being such as to permit rotation of the shaft while reducing air flow therethrough to a minimum, an operable connection between the handle and the rock shaft exterior of the door and comprising an offset on the handle engageable with a shoulder



extending laterally from the rock shaft and parallel to the face of the door, and an operable connection between the rock shaft and the bolt on the interior of the door.

2,287,447
CLEANING MEANS FOR FRUITS, VEGETABLES, ETC.
Raymond Peeples, Palisade, Colo.
Application December 12, 1940, Serial No. 369,899
3 Claims. (Cl. 146—202)

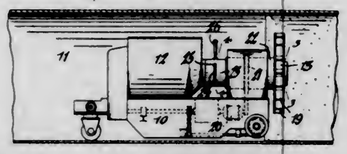


1. A brushing machine of the character described, comprising a group of spiral brushes disposed in relatively close parallel relation in a common plane, said brushes being rotatably supported and being all of the same diameter, a second group of spiral brushes disposed in relatively close parallel relation in a common plane above and in relatively close relation to the first brushes, the planes of the two groups of brushes being parallel and the brushes of the second group being rotatably supported, pulley members connected with the brushes of the first group, pulley members connected with the brushes of the second group, the pulley members of the first group being alternately of small and large diameter, and a driving connection between and common to all of the pulleys of the two groups and arranged to rotate all of the brushes of the first group in one direction and to rotate all of the brushes of the second group in one direction and oppositely to the direction of rotation of the brushes of the first group.

2,287,448
APPARATUS FOR COATING PIPES AND THE LIKE
Albert G. Perkins, Warsaw, N. Y., assignor to Centriline Corporation, Ampere, N. J., a corporation of Delaware
Application November 23, 1940, Serial No. 366,901
5 Claims. (Cl. 91—44)

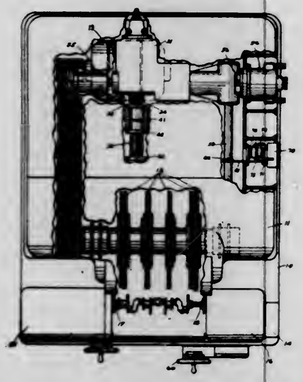
1. An apparatus for lining the inner walls of

pipe lines, comprising a conduit adapted for communication at one end with a source of coating material, and open at its opposite end for the discharge of the material, a ported member adjustably mounted at the discharge end of said conduit for movement to different radial posi-



tions to control the desired angular flow of material therefrom, some of said ports being small and others comparatively large, and a rotary dispensing head disposed about and in operative communicating relation to said ports for receiving the material therefrom and directing it by centrifugal force onto the pipe wall.

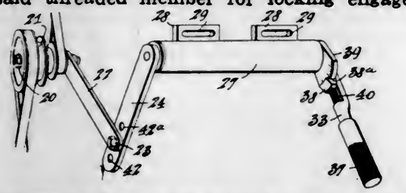
2,287,449
WHEEL SPEED CONTROL
Ralph E. Price, Highfield, Md., assignor to Landis Tool Company, Waynesboro, Pa.
Application November 8, 1940, Serial No. 364,922
4 Claims. (Cl. 51—166)



1. In a grinding machine, a work support, a wheel support, a grinding wheel rotatably mounted thereon, means for driving said wheel, a speed control means therefor, mechanism for effecting a relative transverse positioning and feeding movement between said supports, mechanism operable independently of said positioning mechanism for effecting a relative adjusting movement between said supports for changing the zone of operation of said positioning movement as the wheel becomes smaller due to wear and dressing, and a mechanism actuated by said adjusting mechanism for operating said speed control means.

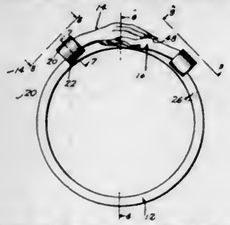
2,287,450
BELT TIGHTENER
Robert B. Price, Tulsa, Okla.
Application March 14, 1941, Serial No. 383,409
1 Claim. (Cl. 74—242.15)

In an adjustment control mechanism for plural transmission belts, a fixed housing having a segmental portion, a radially adjustable element therein, a threaded member adjustable in said element and carried thereby, a rotatable handle on said radial element, and a pressure plate on said threaded member for locking engage-



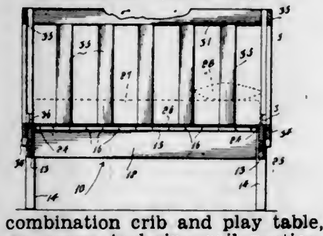
ment with said segmental portion upon actuation of said handle.

2,287,451
ARTICLE OF JEWELRY
Aaron Reiter, New York, N. Y.
Application June 13, 1941, Serial No. 397,840
11 Claims. (Cl. 63—15)



1. An article of jewelry such as a ring, bracelet or the like comprising an annular member, relatively movable parts carried by said annular member externally to and adjacent the outer periphery thereof, one of said parts being movable on said outer periphery of the annular member in a direction circumferentially of said annular member toward and away from said other part while said annular member is in position on the wearer, said movable part having a circumferential extent less than that of said annular member.

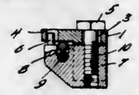
2,287,452
COMBINATION CRIB AND PLAY TABLE
Ida C. Rossom, Bergenfield, N. J.
Application October 24, 1940, Serial No. 362,670
1 Claim. (Cl. 5—93)



In a combination crib and play table, a crib having an upper inclosing rail portion and a lower portion, said lower portion having side and end boards, legs depending from the side boards of the lower portion, the lower end of the upper portion detachably inclosing the upper end of the lower portion and blocks carried by the upper portion for supporting engagement with the upper ends of the legs carried by the lower portion, the upper inclosing rail portion including corner posts, upper and lower side rails and spaced vertical slats, the corner posts comprising angularly disposed strips, said supporting blocks being secured to the inner faces of the

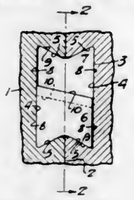
angularly disposed strips with the lower ends of the blocks substantially in the horizontal plane of the upper edges of the lower side rails when the upper portion is mounted on the lower portion and the blocks are engaged with the legs, the lower side rails and lower ends of the corner post strips overlapping the side and end boards of the lower portion of the crib and a mattress supporting panel removably carried by the side boards of the lower portion.

2,287,453
WIRE CONNECTOR
George S. Ruch, Northumberland, Pa.
Application November 4, 1941, Serial No. 417,831
2 Claims. (Cl. 24—243)



2. In a wire clamping device of the character described comprising an inverted L shaped housing member with graduated inner sides, a wedge-shaped second member adapted to be inserted in the side of the housing member provided with a transverse slotted part to receive wires and an upward projecting pin to engage the housing member, means for securely clamping the two members together by a bolt passing through the top of the housing member and the body of the clamping member, substantially as described.

2,287,454
KEY
Herman J. B. Scharnberg, deceased, late of Clewiston, Fla., by Marie M. Scharnberg, executrix, Staten Island, N. Y., assignor to said Marie M. Scharnberg
Application June 9, 1941, Serial No. 397,344
3 Claims. (Cl. 189—36)

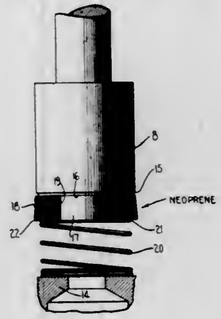


1. In a compound key for securing two elements together, a pair of counterpart sections each having spaced plane parallel side faces, an outer surface of V-configuration extending between said side faces of each section and adapted to engage correspondingly disposed surfaces of said elements, and contiguous inner surfaces on said sections interposed between said outer faces; said contiguous inner faces being inclined transversely and longitudinally of said key so that upon a predetermined movement of said sections said outer faces will be urged into tighter engagement with said elements and draw said elements together.

2,287,455
CORRECTED BASIC REFRACTORY
Gilbert E. Seil, Cynwyd, Pa., assignor to E. J. Lavino and Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application October 11, 1940, Serial No. 360,745
2 Claims. (Cl. 106—62)

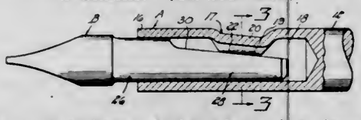
1. The process of making refractory material of periclase and calcium orthosilicate bonded with calcium aluminate, which comprises using a lime-magnesia starting material such as dolomite, mixing therewith starting materials that yield both alumina and silica in calculated amounts, raising the temperature of the mix to approximately 3100° F., that is, a point below the fusion point of the mass but above that at which chemical equilibrium is reached between the reactant constituents, by which calcium aluminate is formed first and thereafter stabilized calcium orthosilicate whereby there is yielded a reaction product containing neither free lime nor free silica but including periclase and calcium orthosilicate as the refractory and major components of which calcium orthosilicate forms substantially not less than 50% by weight of the refractory material with a bonding and minor component of calcium aluminate as the major portion of the bonding component; the amount of alunina added being such as to yield not less than substantially 5% of Al_2O_3 in the finished product and to leave the lime of the starting material in molecular excess, and the amount of silica added being such as to provide the molecular percentage of the residual lime remaining after formation of the calcium aluminate in twice the molecular percentage of the silica in the mix.

2,287,456
SEALING MEANS
Roscoe C. Springston, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan
Application March 28, 1940, Serial No. 326,523
4 Claims. (Cl. 309—23)



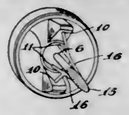
1. In a pressure operated device, a tubular housing having an open-ended bore for connection at one end to a source of high pressure, a piston reciprocally fitting in said bore and projecting from the other end thereof, a flexible, pliable sealing member seated against said piston within said bore, said sealing member having a diameter greater than the diameter of said bore such that said sealing member is radially under compression, and a helical coil compression spring holding said sealing member against said piston, said spring having an end coil directly engaging and indenting the peripherally marginal portion of said sealing member, the indentation of said sealing member by said spring acting to compress further the peripherally marginal edge portion of the spring engaged face of said sealing member laterally into tight engagement with said bore.

2,287,457
SCREW DRIVER
Austin L. Stowell and Frederick A. Volz, New Britain, Conn., assignors to The Stanley Works, New Britain, Conn., a corporation of Connecticut
Application July 2, 1940, Serial No. 343,540
2 Claims. (Cl. 279—102)



1. A tool holder of the character described, having a socket provided with a longitudinally extending cylindrical bore open at one end, the outer surface of said socket being indented inwardly to provide the inner surface of said socket with a pair of spaced apart integral longitudinally extending chordal wedging shoulders intermediate of the ends of the socket and tapering towards the closed end of the socket, and a removable tool receivable within said socket and having a flat face provided with a corresponding taper to said socket shoulders and adapted to frictionally engage same to retain same within the bore.

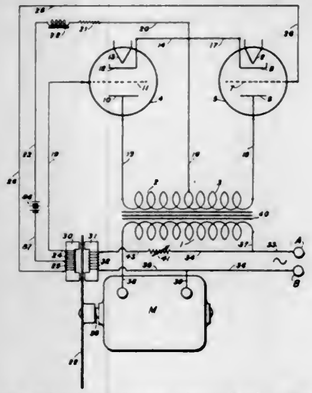
2,287,458
SPRAYING APPARATUS
Robert W. Tracy, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a corporation of Ohio
Application March 8, 1937, Serial No. 129,605
3 Claims. (Cl. 299—140.1)



1. A spraying apparatus of the class described including means to discharge an air supported stream of coating material and means to discharge a plurality of air jets to change the cross-sectional contour of the stream to a broadened form of substantially predetermined pattern, said last means including, on each of two opposite sides of the stream, means to forwardly discharge two air jets with one jet between the stream and other jet, the two jets being directed to converge and merge to form a single broadened jet directed towards said stream, the axes of discharge of the two jets being disposed out of direct intersecting relation to cause the plane of broadening of the merged jets to be abnormal to a plane lengthwise of the stream and common to both said axes and to cause the major portion of the merged jets to impinge the stream at one side of its axis of discharge and in opposition to the merged jets at the other side of the stream to effect a transverse broadening of the stream in a plane abnormal to a plane substantially common to the axes of discharge of the merging jets and lengthwise of the material stream.

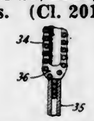
2,287,459
MEANS FOR REGULATING VARIABLE CONDITIONS
Fritz Frederick Uehling, Passaic, N. J.
Application August 31, 1940, Serial No. 354,959
3 Claims. (Cl. 172—239)

1. In a device of the class described, the combination with a transformer consisting of two iron cores separated by air gaps and a coil wound on each of said cores, of a metallic disc rotatably located in said air gaps, a source of current for supplying energy to one of the coils to create magnetic flux in a magnetic circuit which includes both cores, the air gaps and the



disc, and which induces electrical energy in the other coil, and means controlled by said induced energy for rotating the disc to create eddy currents which react with the flux to influence said induced energy.

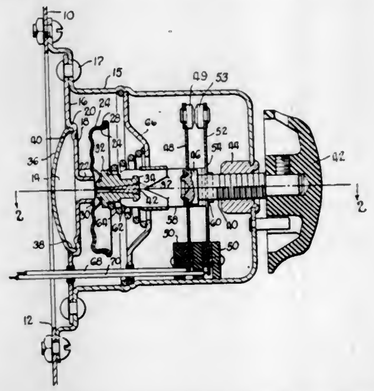
2,287,460
INSULATED HEATER AND METHOD OF MANUFACTURE
Edward R. Wagenhals, Summit, and Lawrence R. Shardlow, North Arlington, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application November 29, 1940, Serial No. 367,774
8 Claims. (Cl. 201—67)



4. Method of making a coiled heater comprising the steps of helically coiling a fine wire about a long soluble mandrel, heating the coiled wire to set the wire, cutting the coil and mandrel to form a plurality of relatively short coil sections, coating the coil with the exception of a small length adjacent the ends with a coating of insulation, firing the coiled wire, coating and mandrel to sinter the said coating to form a substantially solid mass including the wire, coating, and mandrel, dissolving the mandrel from the coiled wire leaving the fine wire bare on the inside of said coil and on the ends thereof, welding said coil at each end to a current carrying terminal, and applying insulating material to the bare ends of said coil to fill the ends of the coil with said material.

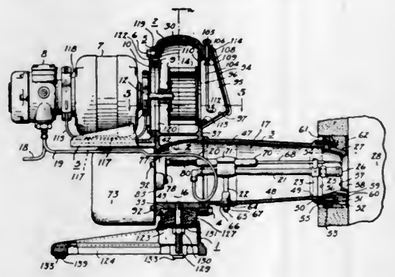
2,287,461
TEMPERATURE CONTROL UNIT
John E. Woods, Brookline, Mass., assignor to Clifford Manufacturing Co., Boston, Mass., a corporation of Delaware
Application February 27, 1940, Serial No. 321,037
2 Claims. (Cl. 200—140)

1. A temperature control unit designed for attachment to the wall of an oven or the like, comprising a supporting plate connected to the wall of the oven about an opening formed therein, said supporting plate being provided with an offset indented portion in its face and forming a centrally disposed offset hollow support terminating in a free edge indented at its outermost portion, an arched disk having a depending flange seated in said indented portion in said face in bonded relation therewith, a diaphragm assembly comprising a relatively fixed and a relatively movable diaphragm each provided with inner and outer free ends, the inner end of said relatively fixed diaphragm being seated in the indented portion in the free edge of said hollow support in bonded relation therewith, a head portion reduced at one end thereof to provide a



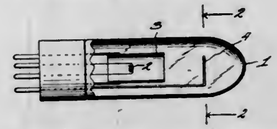
shoulder, the inner end of the relatively movable diaphragm being seated on the shoulder of said head portion in bonded relation therewith, the outer free ends of said diaphragms being turned back upon themselves in a direction toward said disk to provide an indented portion, said outer free ends of the said diaphragms being bonded together at said indented portion, said arch disk and diaphragm assembly limiting a fluid chamber, switch mechanism including a movable contact connected with and operated by the movement of said head, an adjustable fixed contact, and a manually operated knob for positionally setting the adjustable contact for the control of selected temperatures.

2,287,462
BLOWER UNIT FOR OIL BURNERS
Reginald W. Beckett, Elyria, Ohio
Original application February 4, 1938, Serial No. 188,731. Divided and this application February 5, 1940, Serial No. 317,245
12 Claims. (Cl. 230—117)



1. In an oil burner having a supporting structure including a housing providing a blower chamber, a bracket having a vertical portion disposed against the housing and removably attached thereto and a horizontal portion extending from the housing, a rotor in the chamber, a motor supported by the horizontal portion of the bracket and having a shaft extending through openings in the vertical portion of the bracket and the housing to support and actuate the rotor in the chamber, said openings being in register and sufficiently large to pass the rotor while the latter is on the shaft, and a closure member having a running fit with the shaft and normally disposed over the openings to substantially close the latter, whereby the bracket with the motor, rotor, and closure attached thereto are removable from the housing as a unit or alternatively the motor with the rotor and closure attached thereto are removable from the bracket and housing as a unit.

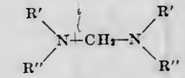
2,287,463
ELECTRICAL RECORDING DEVICE
Archie Henry Blue, Christchurch, New Zealand, assignor of one-fourth to Ross Derisley Wood, and two-twentieths to Henry Poynton Bridge, both of Christchurch, New Zealand
Application January 17, 1940, Serial No. 314,328
2 Claims. (Cl. 176—122)



1. A glow discharge device, comprising an elongated envelope containing mercury vapor, a filamentary cathode within and on the longitudinal center of the envelope, an anode in the form of a cylinder coaxial with the envelope and enclosing said cathode and electrically separated therefrom and having a terminal exposed exteriorly of the envelope for the connection of a source of electric potential therewith, and a target grid disposed in spaced relation with the cathode and spaced from an end of the anode and upon the axial center of the anode in line longitudinally of the anode with the cathode.

2,287,464
PREPARATION OF AMINOMETHYL ETHERS
Louis H. Bock, Glenside, Pa., assignor to Röhm & Haas Company, Philadelphia, Pa.
No Drawing. Application March 26, 1940, Serial No. 326,047
7 Claims. (Cl. 260—584)

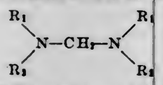
7. A method for preparing tertiary aminomethyl ethers which comprises reacting a member of the group consisting of anhydrous formaldehyde and polymers of formaldehyde with a diamine of the formula



wherein R' and R'' represent members of the group consisting of aliphatic and alicyclic hydrocarbon groups and aralkyl groups when taken individually and when taken together saturated divalent groups which jointly with the nitrogen form a heterocycle, and an alcohol selected from the group consisting of primary and secondary alcohols and removing the water formed in the reaction.

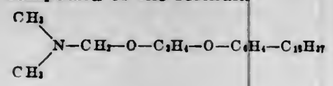
2,287,465
AMINOMETHYL ETHERS OF ETHER ALCOHOLS
Louis H. Bock, Glenside, Pa., assignor to Röhm & Haas Company, Philadelphia, Pa.
No Drawing. Application March 26, 1940, Serial No. 326,043
9 Claims. (Cl. 260—570.7)

1. A method for preparing tertiary aminomethyl polyethers which comprises reacting a member of the group consisting of anhydrous preparations of formaldehyde and polymers of formaldehyde with a diamine of the formula



wherein R_1 and R_2 represent members of the group consisting of aliphatic and alicyclic hydrocarbon groups and aralkyl groups when taken individually and when taken together saturated divalent groups which jointly with the nitrogen form a heterocycle and an ether alcohol and removing the water formed in the reaction.

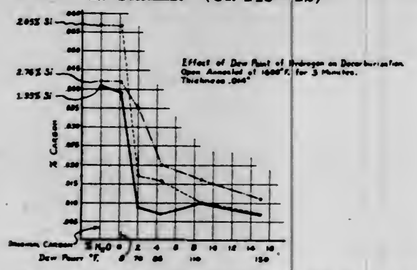
9. A compound of the formula



2,287,466
PROCESS OF PRODUCING HIGH PERMEABILITY SILICON STEEL
Victor W. Carpenter, Franklin, Ohio, assignor to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio
No Drawing. Application December 5, 1939, Serial No. 307,716
17 Claims. (Cl. 148—12)

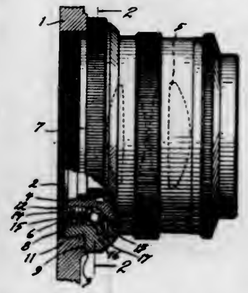
1. A process of securing a twin-derivative orientation in silicon steel and involving a single cold rolling stage, which process comprises hot rolling silicon steel containing substantially from 1 to 4% silicon to a gauge 3 to 6 times the desired final gauge, cold rolling the said steel to gauge and finally heat treating the said steel at temperatures between substantially 1300 and substantially 2200 degrees F., said temperature varying directly with the said silicon content, and being of such duration that a twin-derivative orientation of the crystals results.

2,287,467
PROCESS OF PRODUCING SILICON STEEL
Victor W. Carpenter, Middletown, and John M. Jackson, Franklin, Ohio, assignors to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio
Application January 3, 1940, Serial No. 312,258
12 Claims. (Cl. 148—12)



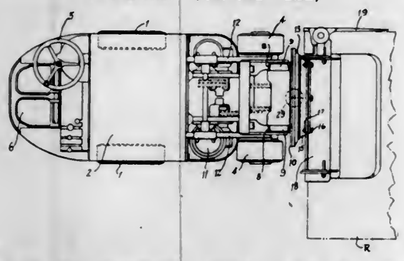
1. A process of decarburizing silicon steel sheet or strip containing from 0.05% to 4% silicon which comprises open annealing said sheet or strip at a temperature substantially within the range of 1350 to 1650 degrees F., in an atmosphere predominantly of hydrogen and containing water vapor substantially within the range of two to thirty-five per cent.

2,287,468
LENS MOUNT
Irving Cisski, Schiller Park, Ill., assignor to General Scientific Corporation, Chicago, Ill., a corporation of Illinois
Application April 24, 1940, Serial No. 331,436
4 Claims. (Cl. 88—57)



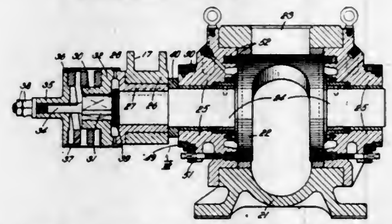
1. In a lens mount, the combination with a lens carrier member, of a bored mounting member on which said lens carrier is screwthreaded for adjustment with reference thereto axially of a lens carried by said carrier member, and clamping means operative between said members for fixedly securing said carrier member in adjusted position on said mounting member comprising a screw screwthreaded on one of said members on an axis extending longitudinally of the lens axis, a clamp element movable radially of the lens axis to engage a cylindrical surface, coaxial with the lens axis, on the other of said members, and wedging means operative between said screw and clamp element to clamp said clamp element against said cylindrical surface.

2,287,469
INDUSTRIAL TRUCK
Clyde E. Cochran, Cleveland, Ohio, assignor to The Elwell-Parker Electric Company
Application April 9, 1941, Serial No. 387,622
9 Claims. (Cl. 214—121)



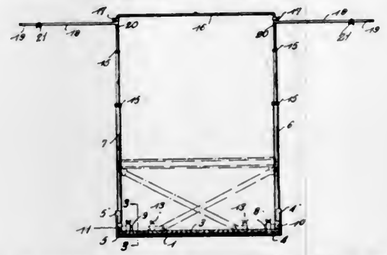
1. In an industrial truck, load supporting means, and means for rotating said load supporting means about an axis which extends in the general direction of movement of the truck, said last-named means comprising a hollow rotatable member, a motor substantially disposed within and concealed by said member for rotating said member, gearing interconnecting said motor and rotatable member for rotating the latter.

2,287,470
VALVE OPERATING MECHANISM FOR CONCRETE PUMPS
James Ernest Conacher, Watford, England, assignor to Blaw-Knox Limited, London, England, a British company
Application March 23, 1940, Serial No. 325,520
In Great Britain April 3, 1939
2 Claims. (Cl. 137—146)



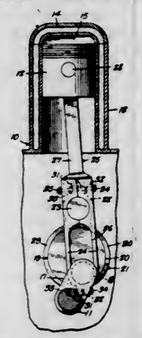
1. In a concrete pump having a valve for controlling the flow of the concrete, valve-operating mechanism comprising a member adapted to impart an oscillatory motion to the valve body, and a coupling between said member and said valve body, said coupling being in the form of a dog-clutch having at least one tooth of which the working faces are so inclined that while, on the one hand, they are capable of applying positive force to the valve body to cause it to close completely under normal conditions and to open but do not transmit mechanical power to the valve body when the resistance to movement of the latter in its closing direction is greater than a predetermined value, on the other hand, they are capable of transmitting to the valve body, for the opening movement of the latter, greater mechanical power than that available for closing it, and stops arranged positively to limit the travel of the valve body in either direction so that if the mechanical oscillatory movement of said oscillatory member and the mechanical oscillating movement of the valve body tend to come out of phase, due to said coupling, the correct phase relation is restored by said limiting stops.

2,287,471
DRAPE SUPPORT
Robert R. De Ment, Cleveland, Ohio
Application March 14, 1940, Serial No. 323,956
9 Claims. (Cl. 45—106)



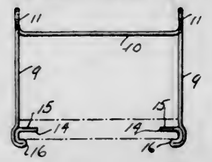
1. A drape support comprising a base of substantial length, a pair of foot members operatively connected to said base and mounted for slidable movement past each other, each being slidable throughout substantially the entire length of said base, a pair of spaced uprights having pivotal connection at their lower ends with said foot members, and a horizontally disposed drape bar having pivotal connection with the top part of said uprights, said pivotal connections being about parallel axes transversely of the length of said base, whereby said uprights and drape bar may be folded down together upon said base, and means for holding said uprights in upright position.

2,287,472
CRANKSHAFT AND CONNECTING ROD CONNECTION
Elias G. Eby, Pharr, Tex.
Application March 22, 1941, Serial No. 384,734
6 Claims. (Cl. 74—44)



1. In combination, a cylinder, a piston operating within said cylinder, a connecting rod pivotally attached to the piston, a crank shaft having a crank formed thereon, an eccentric fixedly mounted on the crank portion of the crank shaft, arms having one end secured to the connecting rod and the other end thereof formed with slots for receiving the crank portion of the crank shaft whereby to permit the crank to have a limited sliding movement relative thereto, and a strap having one end mounted for rotation on the eccentric and the other end thereof extending radially outwardly from the eccentric and being pivotally attached to the said arms.

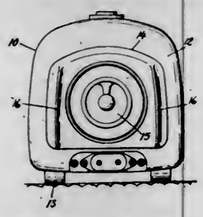
2,287,473
PANTS AND SKIRT HANGER
William H. Glines, Berkeley, Calif.
Application March 31, 1941, Serial No. 386,018
2 Claims. (Cl. 211—113)



1. A garment hanger comprising a flat supporting member formed with a plurality of elongated fingers longitudinally extending from the rear portion thereof and positioned in parallelism with space therebetween for receiving the end portions of a garment, a bracket removably secured to said rear portion of the supporting member, said bracket embodying in its construction spaced arms extending forwardly over said supporting member and fingers, said arms being formed with hook shaped portions adjacent their upper ends and with a straight transverse cross rod connecting the hook shaped portions, the

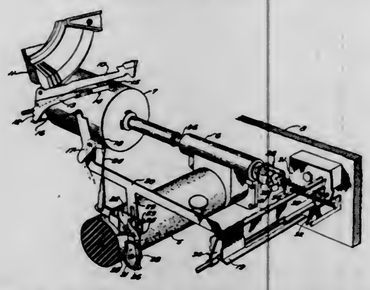
opposite lower ends of said arms being inwardly bent and receivable in recesses provided in the supporting member.

2,287,474
VACUUM CLEANER
Erik Oskar Helge Hansson, Stockholm, Sweden, assignor to Electrolux Corporation, Dover, Del., a corporation of Delaware
Application December 8, 1939, Serial No. 308,145
In Sweden December 8, 1938
1 Claim. (Cl. 15—16)



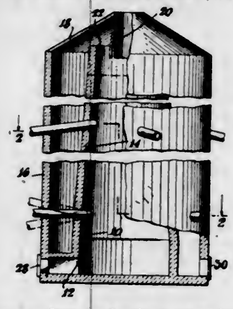
In a vacuum cleaner, a hollow casing provided with a dust bag opening at one end, means for supporting said casing on a horizontal surface with said opening in a substantially vertical plane, a casting secured to the opposite end of said casing and formed with an outlet opening and a plurality of symmetrically located ridge-like members cast integral with said casting and projecting therefrom on either side of said outlet opening for providing a stable support on the horizontal surface for said casing in an upright position with said dust bag opening in a horizontal plane and for spacing said outlet opening from the supporting surface, whereby air discharged through said outlet opening may escape between said members.

2,287,475
TYPEWRITING MACHINE
William F. Helmond, West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application December 22, 1939, Serial No. 310,547
7 Claims. (Cl. 197—17)



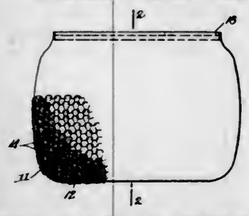
1. In a typewriting machine having a system of type actions, power driven means for actuating the type actions and a universal lock bar movable into and out of locking relation with said type actions; in combination, a centrifugal device rotatable with said power driven means and having its axis substantially at a right angle to the longitudinal axis of said lock bar, said centrifugal device including an actuator movable substantially on the axis of said device in response to rotation thereof, and means operatively connecting said actuator and lock bar, said actuator having swiveling engagement with said connecting means.

2,287,476
APPARATUS FOR REDUCING ORE
Frank Hodson, Elmhurst, and Paul A. Hirsch, New York, N. Y., assignors to American Ore Reduction Corporation, New York, N. Y., a corporation of Delaware
Original application October 6, 1937, Serial No. 167,542. Divided and this application December 22, 1939, Serial No. 310,548
11 Claims. (Cl. 266—24)



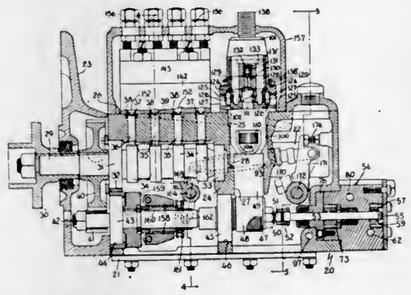
1. A furnace for reducing ore to metal comprising an inner shaft, an outer shaft substantially concentric with, in spaced relation to and defining with said inner shaft a settling chamber, an end closure for said outer shaft spaced from an adjacent end of said inner shaft, an annular member depending from said closure into said inner shaft and defining therewith a separating slot communicating with said settling chamber, means for injecting ore into said inner shaft and means for maintaining in said inner shaft a gyrating column of reducing gases for entraining and reducing said ore to metal, and directing at least a portion of said reduced metal through said separating slot by centrifugal force.

2,287,477
CLEANING PAD
David P. Israel, Boston, Mass.
Application April 29, 1941, Serial No. 390,925
1 Claim. (Cl. 15—219)



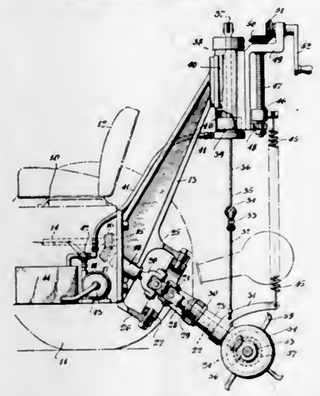
A cleaning pad of the character described, comprising a bag of knitted jersey fabric, and a filler of soft and springy particles of ground sulpho-chlorinated oil, said particles having a fineness of coarse sand, some of said particles adhering to the exterior of the bag, and others being compressed together and lodged in the meshes of the bag until the pad is squeezed, the loops of the knitted fabric resiliently yielding under compression of the pad and cooperating with the springy particles to exude more of said particles during useful application of the cleaning pad.

2,287,478
FUEL PUMP FOR ENGINES
Edward A. Johnston, Chicago, and Raymond E. Peterson, Riverside, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application April 20, 1940, Serial No. 330,750
20 Claims. (Cl. 123—140)



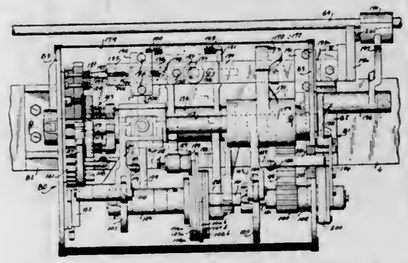
18. In a fuel injection pump construction, a unitary casing provided with a partition wall providing support for bearings, a bore formed in the casing in the partition wall thereof, a removable injection plunger unit fitted on the casing and depending within said bore, a drive shaft mounted in the casing being supported by a bearing at one end of the casing and a bearing in the partition wall, a driving shaft mounted in the casing parallel to the drive shaft and rotatably supported by bearings at one end wall of the casing and in the partition wall, gearing for driving said shaft from the drive shaft, a centrifugal governor carried by the driving shaft, a plunger control member mounted for reciprocation in the partition wall, and control linkage operatively connected to the governor and the control member.

2,287,479
TILLING DEVICE
Cadwallader W. Kelsey, Troy, N. Y., assignor to Rototiller, Inc., Troy, N. Y., a corporation of Delaware
Application December 14, 1939, Serial No. 309,199
2 Claims. (Cl. 97—40)



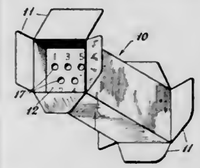
1. An apparatus of the character described comprising a frame adapted to be secured to a vehicle, a portion of said frame forming a shaft casing, a drive shaft mounted in said casing and coupled for rotation to a source of power within said vehicle, a second drive shaft for association with said first named shaft, a pair of universal joints interposed between said drive shafts and operatively connecting the same, a driven shaft mounted at right angles to said drive shafts, rotary tillage units secured to said driven shaft for rotation therewith, a casing housing said second drive shaft and a universal joint for coupling said casing to said first named casing, said universal joint being located at the position of and encircling said first named universal joints associated with said drive shafts.

2,287,480
LACE ATTACHMENT FOR FLAT KNITTING MACHINES
Fritz Lambach, Fairview, N. J.
Application August 30, 1939, Serial No. 292,549
26 Claims. (Cl. 66—96)



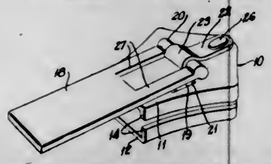
1. In a flat knitting machine having a main cam shaft and a loop transfer device movable in and out of operating position: a lace attachment comprising a rotatable pattern wheel; a lace cam on said cam shaft; means arranged between the cam shaft and pattern wheel and adapted to be actuated by said cam for imparting intermittent rotation to said pattern wheel; adjustable means controlled by said pattern wheel and adapted to act on said loop transfer device to operate the same; adjusting means also controlled by said pattern wheel to adjust said adjustable means for varying its action on said transfer device; and means associated with the loop transfer device and operable with its movement out of operating position for locking said rotation imparting means against actuation by said cam.

2,287,481
EXPOSURE METER FILM CARTON
William C. Lockwood, Chicago, Ill.
Application January 22, 1940, Serial No. 314,987
4 Claims. (Cl. 88—23)



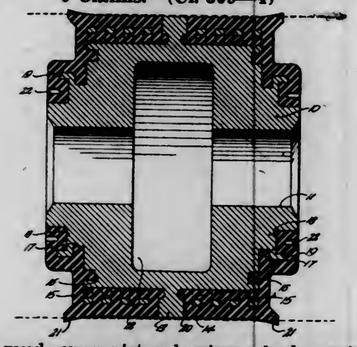
1. In a device of the class described, a photographic film carton adapted to be opened at each of its ends, and a movable flap carried by said carton and adapted to be positioned to form a transverse partition within said carton, said flap being provided with visual or optical light measuring means.

2,287,482
LOCK SLIDER
Davis Marinsky, Bronx, N. Y., assignor, by mesne assignments, of one-half to said Davis Marinsky and one-half to Louis H. Morin, Bronx, N. Y.
Application April 20, 1940, Serial No. 330,663
4 Claims. (Cl. 24—205.5)



2. The combination with a slider for fastener stringers of the class described, of means forming a pivotal mounting for a slider pull, said means comprising a spring member, one end portion of said member being secured to the slider, the other free yieldable end portion of said member forming a pivot bearing, a pull having a pivot end, means at said pivot end limiting the extent of the pivot portion of the pull, said spring member constituting the sole means for mounting the pull on the slider, and the bearing of said spring member engaging the pivot of the pull, retaining the pull against displacement from the slider and also engaging the limiting means of said pivot end to retain the pull against lateral movement on the slider.

2,287,483
MUD PUMP PISTON
Erwin E. Miller, Fullerton, Calif.
Application February 27, 1940, Serial No. 321,061
9 Claims. (Cl. 309—4)

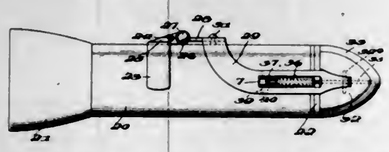


4. A mud pump piston having a body equipped with a central flange, the periphery of which is adapted to engage the walls of a mud pump liner, there being spaced perforated flanges on the body on each side of the central flange, and rubber molded about and between the flanges and through the perforations therein, there being grooves formed on the ends of the body, said grooves being arranged at substantially right angles to each other and the rubber extending over the ends of the body and filling said grooves.

2,287,484
COATING COMPOSITION AND USE THEREOF
Louis Pereny, Homewood, and George A. Meisinger, Chicago, Ill., assignors to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application May 8, 1939, Serial No. 272,462
4 Claims. (Cl. 117—7)

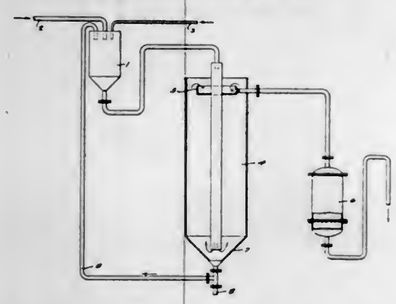
1. A method of treating textile fabric mounted in diaphragm fashion, which comprises applying to the mounted woven fabric a film-forming coating solution comprising volatile solvent and dissolved ethyl cellulose having an ethoxyl content essentially in the range upwardly from 42% to below 47.5% by weight, and having plasticizer in the proportion of about 1 part by weight to at least about 4 to 5 parts by weight of said ethyl cellulose, and evaporating the volatile solvent to form a film, whereby the treated fabric is shrunk and tautened in its mounting, and is resistant to damage by contact with gasoline and like hydrocarbons.

2,287,485
FLASHLIGHT CASE AND SUPPORT
Louis Bryon Pierce, Klamath Falls, Oreg.
Application March 24, 1939, Serial No. 263,992
9 Claims. (Cl. 248—359)



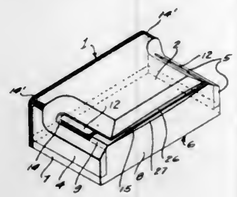
8. In a device of the character described a supporting unit comprising a pair of arm members pivotally connected together at one end thereof, a foot pad member pivotally connected to the free end of each of said arms, said foot pads being formed to provide surfaces adapted to grip opposite sides of a supporting object and with surfaces adapted to engage each other to dispose said foot pads in position to form a base on which the unit may stand erect on a flat surface, and means for drawing the free ends of said arms toward each other to urge said foot pads into clamping engagement with opposite sides of a supporting object or into engagement with each other to form a base for the supporting unit.

2,287,486
PROCESS FOR REMOVING SILICIC ACID FROM WATER
Hellmuth Reichelt, Bitterfeld, and Hans Zirngibl, Wolfen, Kreis Bitterfeld, Germany
Application August 25, 1939, Serial No. 291,930
In Germany September 19, 1938
2 Claims. (Cl. 210—23)



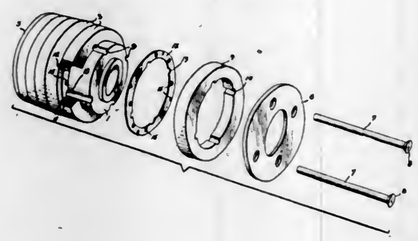
1. A process for removing silicic acid from water which comprises treating the water at pH-values between 7 and 9 with magnesium aluminates containing about 2 mols of magnesium oxide per 1 mol of aluminium oxide and separating the resultant sludge from the water.

2,287,487
BOX FOR RAZOR BLADES
John G. Roberts, Dobbs Ferry, N. Y.
Application October 15, 1938, Serial No. 235,188
8 Claims. (Cl. 206—16)



1. A rectangular box having top, side and end walls which define a chamber having its transverse dimensions in length and width substantially those of a safety razor blade, the said box having a continuous coplanar U-shaped dispensing slot adjacent the top wall, said slot having its mid portion extending through a side wall longitudinally of the box and each end portion extending around an adjacent corner of the box and continuing along an end wall, the corners of the box adjacent the end portions of the slot being cut away along said portions to expose the ends of a razor blade positioned within the box sufficiently for finger engagement by an operator.

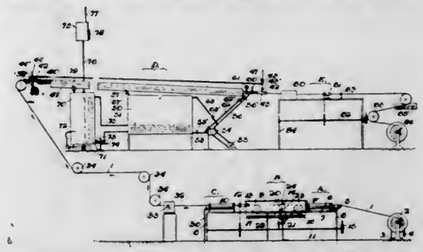
2,287,488
PULLEY
Frederick N. Ross, Grosse Pointe Park, Mich.
Application April 22, 1939, Serial No. 269,328
7 Claims. (Cl. 74—230.7)



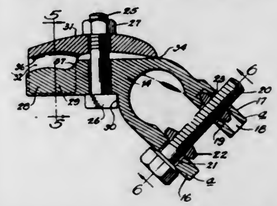
1. A pulley for a flat driving belt comprising a hub, a plurality of separate rings of live rubber with fabric incorporated therein disposed over the hub, and a drive ring of smaller diameter than the rubber rings between each two adjacent rubber rings having a driving relation with the hub and having projecting means extending into the rubber rings.

2,287,489
APPARATUS FOR PRODUCING INSULATING CONDUCTORS
John H. S. Skoning, Cranston, R. I.
Original application February 14, 1939, Serial No. 256,392. Divided and this application May 31, 1939, Serial No. 276,752
11 Claims. (Cl. 91—18)

1. An apparatus for producing insulated conductors comprising an elongated autoclave means to pass a fiber covered impregnated conductor continuously through the autoclave, a tank for containing an immersion liquor and means to circulate immersion liquor to and from the autoclave and tank under pressure.



2,287,490
BATTERY TERMINAL
William G. Tenney, Chicago, Ill.
Application April 14, 1941, Serial No. 388,472
3 Claims. (Cl. 173—259)

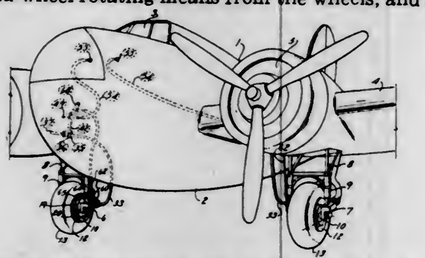


1. A battery terminal comprising a body having a battery post attaching portion comprising a pair of arms adapted for movement toward and from each other, there being a pair of registering openings in the two arms, a threaded bolt passing through the openings of a diameter sufficiently less than that of the openings to permit the two arms to move toward and from each other without binding on the bolt, one of the arms being recessed inwardly from its end to provide a hollow chamber having substantially plane inner side wall surfaces communicating with the opening therein, the other arm having plane inner and outer surfaces, a nut received within the chamber adapted for threaded engagement with the bolt, a head on the bolt in engagement with the other arm, a thrust collar adjacent the inner side of the arm last named, and means for permitting adjustment of the thrust collar on the bolt at a distance from the head sufficient for permitting free movements of the two arms angularly with respect to the bolt axis, the opposite faces of the nut, the contacting faces of the thrust collar, and the contacting face of the bolt head being of convex shape whereby to permit such faces to engage with the adjacent plane arm surfaces in various adjusted positions thereof at points relatively close to the openings therethrough.

2,287,491
AIRCRAFT LANDING GEAR
Percy B. Wolverton and Chester R. Hughes, Kansas City, Mo.
Application September 19, 1940, Serial No. 357,376
14 Claims. (Cl. 244—103)

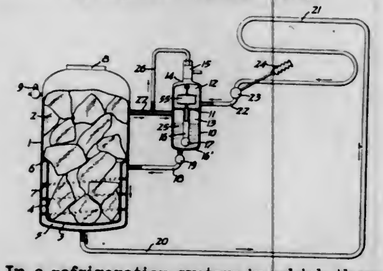
1. In combination with an aircraft having landing wheels, a shock absorber and a source of power, means connected with the source of power engageable with said landing wheels for rotating

the same, means for effecting disengagement of said wheel rotating means from the wheels, and a



control for said disengaging means engaged with and actuated by said shock absorber.

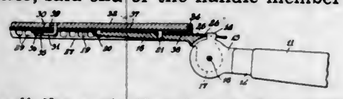
2,287,492
REFRIGERATING SYSTEM
Harry A. B. Brown, Pittsburgh, Pa.
Application May 27, 1940, Serial No. 337,464
10 Claims. (Cl. 62—91.5)



1. In a refrigeration system in which there is a tank of solid CO_2, a cooling coil, a control chamber, and a passageway in heat exchange relationship with the solid CO_2 in said tank; said cooling coil, control chamber and passageway being connected in series to form an endless conduit for a liquid refrigerant, a CO_2 gas pressure line communicating between said tank and chamber providing for gas pressure in said chamber for causing periodic circulation of the liquid refrigerant through said conduit under influence of said gas pressure, control means for said gas comprising a valve body in said line provided with a single, movable valve element therein, ducts in said body for said gas controlled by movement of said element and arranged and adapted to establish gas communication between said tank and chamber, and the venting of gas in said chamber to the atmosphere, alternately upon movement of said valve element between two predetermined positions on said body, a float supported on the liquid refrigerant in said chamber responsive for movement between two predetermined levels of the liquid refrigerant in said chamber, separate spaced means secured to said valve element positioned for engagement by said float at said levels for moving said valve element to one or the other of said two positions according to the level of the liquid in said chamber.

2,287,493
COLLAPSIBLE SAFETY RAZOR
Angelo Cuomo, Brooklyn, N. Y.; Anthony J. Forte, executor of said Angelo Cuomo, deceased
Application April 17, 1940, Serial No. 330,041
3 Claims. (Cl. 30—47)

1. A safety razor comprising a blade carrier and a handle member, means for releasably clamping a blade upon the blade carrier, means pivotally connecting said carrier and handle member with each other at one of their ends for relative movement into folded collapsed relation and into longitudinally extended relation with each other, said end of the handle member having a radially projecting lug, and a resiliently yieldable latch element fixed to the blade carrier and projecting longitudinally beyond said end thereof, said latch element having an opening therein adapted to receive said lug of the handle member and releasably latch the blade carrier and handle member in extended relation to each other.

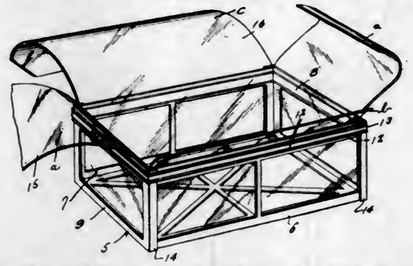


2,287,494
MEANS FOR MOUNTING ROOM THERMOSTATS
Ira E. McCabe, Chicago, Ill.
Application April 20, 1940, Serial No. 330,677
6 Claims. (Cl. 200—139)

1. A temperature responsive electric switch mechanism including a temperature responsive actuating means and an electric switch mechanism operated thereby carried on a base detachably mounted upon a spaced apart wall bracket plate for securing the instrument upon a support, said wall bracket plate provided with means for adjustably securing said plate upon the support, said wall bracket plate supporting terminals adapted to be connected in circuit with the circuit to be controlled by the switch mechanism, said base provided with electric contact studs connected to the terminals of the switch mechanism and arranged to engage the terminals on the wall bracket plate, and means for securing the base upon said wall bracket plate with the contact studs in engagement with the terminals on said plate and wherein the terminals adapted to be connected in circuit with the circuit to be controlled are mounted on a plate of insulation secured to the wall bracket plate and each terminal provided with a binding post at one end and an offset forked and adapted to receive and engage the contacts studs carried on the base.

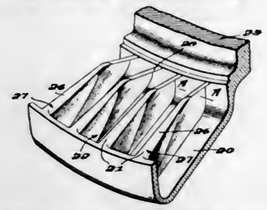
2,287,495
SANITARY FOOD CONTAINER
Paul A. Moyers, Fort Collins, Colo.
Application May 17, 1940, Serial No. 335,822
2 Claims. (Cl. 206—44)

1. A container of the class described comprising a box-like structure having its top open, a strip of transparent material extending over the upper face of the bottom of the structure and up the end walls thereof with its ends projecting from the end walls to form flaps, a second strip of transparent material having a portion extending over the bottom of the structure and parts extending up the sides of the structure with one end extending a considerable distance above one side of the structure to form a long flap and its other extending but a short distance above the opposite side of the structure as to form a short flap, the flaps of the first strip being adapted to be folded over the contents of the box and the



long flap of the second strip to be folded over the flaps of the first strip and the end of this long flap with the short flap being folded over the upper portion of the outer face of the adjacent side of the structure and a band passing around the top portion of the structure and over the ends of the long flap and the short flap to hold said flaps in closing position.

2,287,496
HYDRAULIC COUPLING
Isaac C. Popper, New York, N. Y., assignor to Automatic Turbine Drive Company, Inc., a corporation of New York
Application July 29, 1939, Serial No. 287,415
4 Claims. (Cl. 60—54)



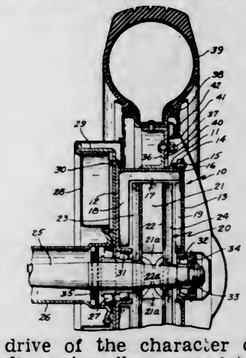
1. A cupped rotor for a hydraulic coupling having a hub and radial vanes, which vanes form buckets therebetween, said vanes each having a portion extending from the rotor body and a second portion extending from the first portion to the edge, the relative thickness of said portions being predetermined to obtain a desired slip.

2,287,497
STALL WARNING INDICATOR
William C. Rockefeller, Pasadena, Calif., assignor to Vultee Aircraft, Inc., Vultee Field, Calif., a corporation of Delaware
Application February 24, 1941, Serial No. 380,110
6 Claims. (Cl. 177—311)



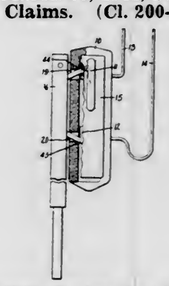
1. In combination with an airplane having a wing, a stall indicator comprising a flap-like plate disposed adjacent the trailing edge of the wing and hinged along one margin thereof and about an axis substantially coincident with said trailing edge so that in response to rearward flow of air over the wing during normal flight condition of the airplane it swings rearwards into a trailing position wherein it projects rearwards beyond the trailing edge of the wing and is substantially coplanar with the adjacent portion of the top surface of said wing and in response to forward flow of air over the trailing edge of the wing due to the airplane approaching a stalled flight condition it swings forwards into an indicating position wherein it overlies said adjacent portion of the top surface of the wing.

2,287,498
HYDRAULIC WHEEL DRIVE
William W. Scofield, Old Greenwich, Conn.
Application February 8, 1941, Serial No. 378,117
2 Claims. (Cl. 60—54)



1. In a drive of the character described, a driving shaft, an impeller secured to said shaft to be driven thereby and including a pair of longitudinally spaced discs and radially extending blades extending between said discs and fins projecting from the outer sides of the discs, a rotatable housing enclosing the impeller and driven thereby and having peripheral and ends walls spaced from the impeller, a series of vanes on the peripheral and end walls of the housing extending inwardly toward the blades and spaced at their inner ends a short distance from the peripheral and side edges of the blades and fins respectively, and said discs having openings therethrough adjacent the inner ends of the blades to permit circulation of liquid inwardly to the spaces between the blades from the spaces between the end wall vanes.

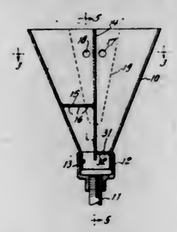
2,287,499
JUMPERING DEVICE
Sidney R. Smith, Jr., Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application March 20, 1941, Serial No. 384,376
14 Claims. (Cl. 200—114)



1. A jumpering device for interconnecting a

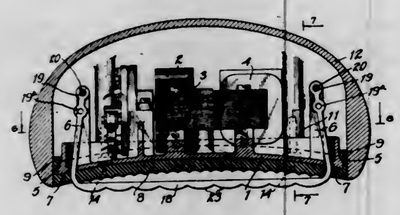
pair of terminals of an electrical device comprising an insulating handle, a pair of spaced relatively movable contacts mounted on said handle, means electrically interconnecting said contacts, and means including said handle for moving one of said contacts relative to the other.

2,287,500
SANITARY BEER COMB AND COCKTAIL MIXER RECEPTACLE
Peter Solinas, Brooklyn, N. Y., assignor to Louis A. Coppola, Brooklyn, N. Y.
Application February 27, 1941, Serial No. 380,791
5 Claims. (Cl. 141—1)



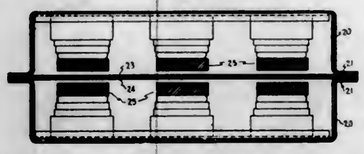
1. An automatic cleansing and hygienic holding device for beer combs and cocktail mixers comprising in combination, a support including a water inlet, a frusto conical receptacle having an aperture connected with said inlet and mounted on said support, said receptacle providing a bottom liquid-receiving region therein, a partition dividing said receptacle vertically and forming two separate compartments on opposite sides thereof, said partition extending upwardly from said bottom region which is thereby common to both compartments, each compartment having a bottom opening into said region and said region being open to the water inlet, a drain on the wall of the receptacle, and each compartment having an outlet in the upper part thereof into said drain.

2,287,501
VIBRATOR
William A. Thomas, Riverside, Conn., assignor to Schick Incorporated, a corporation of Delaware
Application November 25, 1940, Serial No. 367,013
7 Claims. (Cl. 128—32)



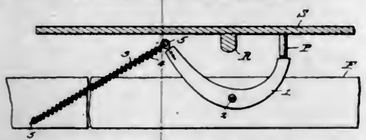
1. In a vibrator of the kind described, a base, a cushion pad under the base to engage the back of the hand, vibrator mechanism mounted on the base, a housing for said mechanism, a plurality of screws for securing the housing to the base within the area thereof covered by said pad, the latter having marginal portions positioned to be engaged and clamped by the housing as the latter is drawn toward the base by said screws.

2,287,502
ELECTRICAL DISTRIBUTION SYSTEM
Alva A. Togesen and Lawrence E. Fisher, Detroit, Mich., assignors to Bulldog Electric Products Company, Detroit, Mich., a corporation of West Virginia
Application June 12, 1941, Serial No. 397,720
31 Claims. (Cl. 171—97)



1. An electrical distribution system comprising an elongated distributor made up of lengths joined end to end, each length of distributor comprising a casing made of elongated parts joined longitudinally on meeting lines, with certain of the parts overlapping the others at one end of the casing length and underlapping the others at the other end of the casing length, whereby casing lengths are joined end to end by scarf lap joints, each length of distributor also comprising conductor lengths within the casing length and substantially coterminous therewith, the conductor lengths of one distributor length being arranged to lap over conductor lengths of another distributor length when the two distributor lengths are joined end to end, the lapping planes of the conductor lengths being parallel to the lapping planes of the casing lengths, whereby the conductor lengths and the casing length of a distributor length may be moved simultaneously and in the same direction for end to end joining to the corresponding parts of an installed distributor length.

2,287,503
PIANO
Archie Mitchell Tyson, Dallas, Tex.
Application August 1, 1941, Serial No. 405,088
3 Claims. (Cl. 84—189)

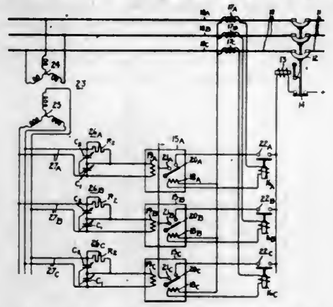


1. In a stringed musical instrument the combination with a frame, and a sounding board having a string side and a back side, of a spring connected at one end only to the instrument frame and having a vibratory portion substantially parallel with the sounding board, and thrust-transmitting means between the other end of the spring and the back side of the sounding board.

2,287,504
PROTECTIVE APPARATUS
Albert R. van C. Warrington, Wallingford, Pa., assignor to General Electric Company, a corporation of New York
Application January 21, 1941, Serial No. 375,209
11 Claims. (Cl. 175—294)

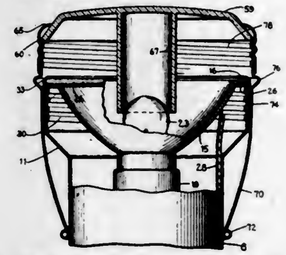
1. A protective relaying system for a power circuit including a power directional responsive device having a potential winding, and circuit means for energizing said potential winding from said power circuit including a plurality of capacitors, said capacitors having such a value of

capacitance that the capacitive reactance thereof when connected in parallel is substantially



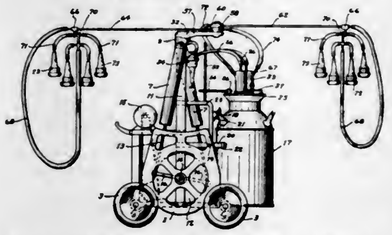
equal to the inductive reactance of said potential winding under all operative conditions.

2,287,505
FLASHLIGHT
Orville T. Wood, Clinton, Mass., assignor to Blake Manufacturing Corporation, Clinton, Mass., a corporation of Massachusetts
Application April 12, 1940, Serial No. 329,236
6 Claims. (Cl. 240—10.66)



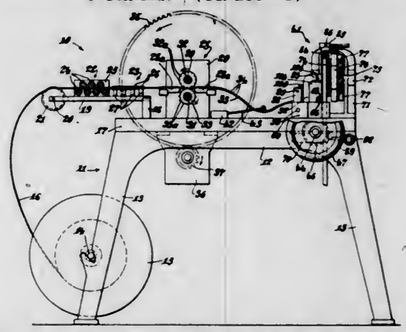
1. In a flashlight, the combination, with a lamp, a casing and a reflector, of a lens, a tubular diffusing screen carried thereby, means mounting the lens on the casing and means to reciprocate the lens mounting means with respect to the casing between a first position and a second position to cause the diffusing screen to telescope over the lamp in one position of the lens and intercept the light rays passing from the lamp to the reflector and to expose the source of light to the reflector in the other position.

2,287,506
MILKING MACHINE
Benjamin H. Anderson, Madison, Wis., assignor to Ben. H. Anderson Manufacturing Co., Madison, Wis., a corporation of Wisconsin
Application December 10, 1938, Serial No. 244,927
11 Claims. (Cl. 31—82)



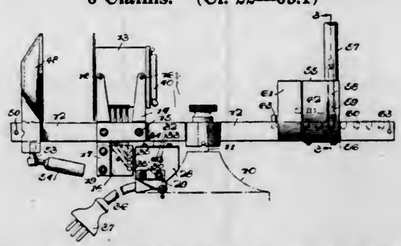
8. In a milking machine, a milk receiving container, a cover for said container, said cover having at least one opening therein, a valve retaining ring mounted loosely in said opening, a valve plate mounted in said retaining ring, a valve chamber having an internal valve seat therein mounted loosely on said retaining ring, the base portion of said valve chamber fitting loosely within said retaining ring, and a yoke removably mounted on said cover and adapted to maintain said valve chamber on said retaining ring and to maintain said valve retaining ring in said opening.

2,287,507
SLIDE FASTENER MACHINE
Stephen Antonietta, Port Richmond, Staten Island, N. Y.
Application January 22, 1941, Serial No. 375,377
6 Claims. (Cl. 153—1)



1. A machine for making slide fasteners having U-shaped headed fastener elements spaced along a stringer on which they are clamped, including a first means for feeding a headed wire-like member step by step according to the spacing of the heads along the member, a second means for cutting said member into said U-shaped elements, a third means for clamping said elements on a stringer, a shaft, and cam means thereon including a plurality of like spaced cam blocks each having cam portions for actuating the first, second and third means.

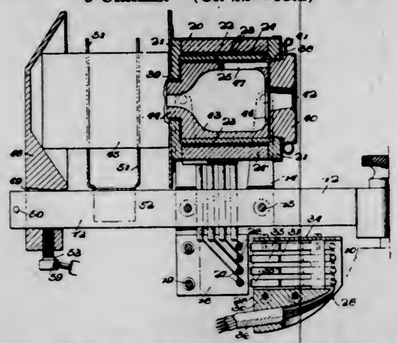
2,287,508
DENTAL CASTING MACHINE
Herbert R. Berger, Brooklyn, N. Y., assignor to J. F. Jelenko & Co. Inc., New York, N. Y., a corporation of New York
Original application September 28, 1938, Serial No. 232,207. Divided and this application May 3, 1941, Serial No. 391,685
6 Claims. (Cl. 22—65.1)



1. In a centrifugal casting machine, a base, a bar rotatably carried by said base, means to rotate said bar, a heating chamber carried by the bar, an electrical heating element in said cham-

ber, a contact block depending from said bar and having contacts connected to said heating element, a sliding contact holder carried by said base, a sliding contact plate carried by said holder, contacts on said plate and connected to a source of electric current, and means to move the contact plate into the path of the contact block.

2,287,509
DENTAL CASTING MACHINE
Herbert R. Berger, Brooklyn, N. Y., assignor to J. F. Jelenko & Co. Inc., New York, N. Y., a corporation of New York
Application May 3, 1941, Serial No. 391,685, which is a division of application Serial No. 232,207, September 28, 1938. Divided and this application September 16, 1941, Serial No. 410,979
6 Claims. (Cl. 22—65.1)



1. In a casting machine, a base, a bar rotatably carried by the base, a heating chamber carried by the bar, and a flask holder adjustably mounted on the bar and adapted to clamp the receiving end of the mold against the heating chamber, said flask holder having an inner flaring surface engageable with the opposite end of the mold.

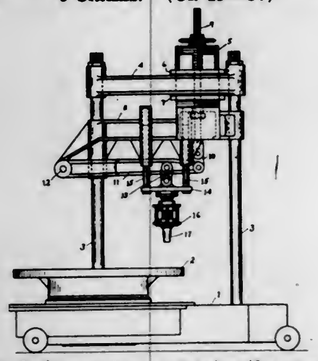
2,287,510
CYANOETHYLATED ARYLALIPHATIC KETONES
Herman A. Bruson, Philadelphia, Pa., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa.
No Drawing. Original application April 19, 1941, Serial No. 389,332. Divided and this application June 24, 1941, Serial No. 399,504
11 Claims. (Cl. 260—465)

1. As a new compound, an arylaliphatic ketone having a plurality of β-cyanoethyl radicals on an aliphatic carbon atom contiguous to the carbonyl group.

2,287,511
ASPHALT MANUFACTURE
Robert E. Burk and Charles H. Whitacre, Cleveland, Ohio, assignors to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Original application November 23, 1936, Serial No. 112,348. Divided and this application March 23, 1938, Serial No. 197,680
3 Claims. (Cl. 196—22)

1. A process of making asphalt, which comprises heating with temperature rise to 350–400° F. and thickening a petroleum residuum in the absence of injected air to asphalt-consistency with a small amount of an aluminum chloride catalyst.

2,287,512
GLASS PRESSING APPARATUS
Robert P. Cassell, Jeannette, Pa., assignor to The Jeannette Glass Company, a corporation of Pennsylvania
Application July 15, 1939, Serial No. 284,723
6 Claims. (Cl. 49—37)



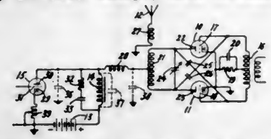
6. In glass-pressing apparatus the combination with a rotatable mold-carrying table of a fixed frame structure extended upwardly of the table; and an assembly adjustable as a unit in the said fixed frame structure toward and from the said table comprising a fluid-pressure cylinder out of line with the path followed by molds on the said table and having a piston and piston rod, a movable mounting structure, a pressing-plunger and plunger-carrying member mounted on said mounting structure for independent straight-line movement toward and from the path followed by molds on the said table, a lever pivoted on said mounting structure remotely from the fluid-pressure cylinder and the mounting of said plunger-carrying member to travel a relatively great linear distance in those locations for any angular movement of the said lever, and link connections between the piston rod of said fluid-pressure cylinder and said lever and between said lever and said plunger-carrying member.

2,287,513
TILE BINDER
Frank W. Corkery, Crafton, and Ralph H. Bailey, Clairton, Pa., assignors to Pennsylvania Industrial Chemical Corporation, a corporation of Pennsylvania
No Drawing. Application July 5, 1939, Serial No. 282,866
10 Claims. (Cl. 260—36)

1. A tile binder composition for mastic tile consisting essentially of high molecular weight coumarone-indene polymers having an average molecular weight above 1000, and a non-volatile unctuous plasticizer boiling above 300° C. and melting below 20° C. compatible with the said high molecular weight coumarone-indene polymers, the said tile binder composition as a whole being characterized by a penetration of less than 30 under a 200 gram load for 5 seconds at a temperature of 115° F. and by the property of pliability in a thin film.

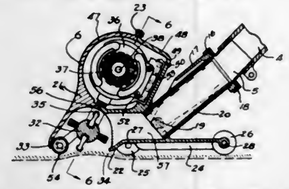
2,287,514
ELECTRIC TRANSLATING CIRCUIT
Robert B. Dome, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application March 11, 1941, Serial No. 382,701
10 Claims. (Cl. 179—171.5)

5. A signal transmission system for transmitting signals between a source and a load with uniform gain over a range of frequencies, said source including an inductance which tends to increase transmission time of signals at a low frequency in said range, and means to reduce



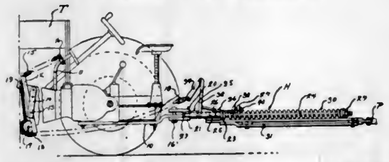
signal transmission time at said low frequency comprising a resistance in series with a capacitance connected across said inductance, the resistance and the capacitive reactance of said capacitance being equal at said low frequency to half the reactance of said inductance.

2,287,515
VACUUM CLEANER
Dewey M. Dow and Frederick H. Burmeister, Toledo, Ohio, and Christian R. Heckler, Wilmington, Del., assignors to Air-Way Electric Appliance Corporation, Toledo, Ohio, a corporation of Delaware
Original application March 8, 1935, Serial No. 9,934. Divided and this application February 27, 1940, Serial No. 321,042
7 Claims. (Cl. 15—6)



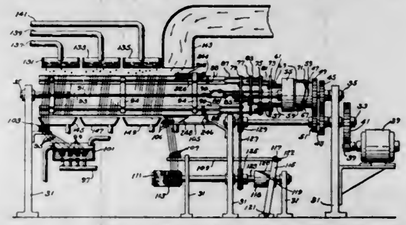
1. In a vacuum cleaner, a floor tool comprising a suction chamber having a mouth, means supporting said suction chamber for travel over a surface to be cleaned, with said mouth spaced above said surface, a frame slidably mounted therein, an agitator rotatably mounted in said frame, a motor mounted on said frame, means connecting said motor and said agitator whereby said agitator may be driven by said motor, said frame, motor and agitator comprising a unit that is vertically movable in said floor tool with said agitator located in said mouth, and resilient means interposed between said unit and said chamber and adapted to assist in maintaining said agitator in a proper working position with reference to said surface.

2,287,516
TRACTOR HITCH
Michael A. Endres, Cross Plains, Wis.
Application April 29, 1940, Serial No. 332,330
11 Claims. (Cl. 180—14.5)



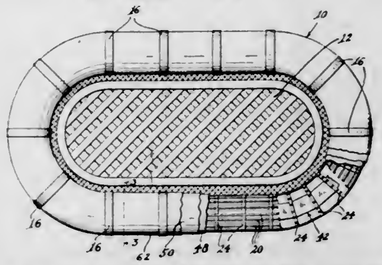
1. A tractor hitch comprising, a drawhead for connection with the drawbar of a tractor, a crosshead for connection with the hitch of a plow movable toward and away from the drawhead, spring means resisting movement of the crosshead away from the drawhead, a swinging hitch lever pivotally carried by the drawhead, a crossbar on the crosshead normally disposed in front of the lever and engaging the lever for swinging the lever to a lowered position upon rearward movement of the crosshead against the tension of said springs, and a pivoted trip lever carried by the crosshead normally arranged in the path of the swinging movement of the first-mentioned lever and movable away from the lever upon impact of the plow with a solid object.

2,287,517
YARN PROCESSING APPARATUS
Alvin L. Ewing, Richmond, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application May 10, 1941, Serial No. 392,873
18 Claims. (Cl. 242—53)



1. A yarn processing reel comprising two sets of yarn carrying bars, the bars of one of said sets disposed alternately between the bars of the other of said sets, the bars of said sets movable axially and radially relative to the other of said sets whereby to advance the yarn helically along the reel, a yarn severing mechanism positioned adjacent one end of said reel and an actuating means for said yarn severing mechanism, said actuating means positioned in the path of said helically advancing yarn whereby the advancing yarn will actuate said severing mechanism to sever one or more courses of the helically advancing yarn.

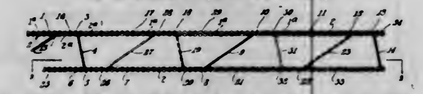
2,287,518
LIFE RAFT
Edmund T. Flynn, Scituate, Mass., assignor to William J. Sullivan, Boston, Mass., and Frank A. Powers, Quincy, Mass.
Application October 6, 1941, Serial No. 413,725
16 Claims. (Cl. 9—11)



1. A buoyancy unit for life rafts, comprising an endless structural frame having a multiplicity of cross-partitions arranged in spaced relation along the endless extent of the frame, and a series of endless ribs extending along the frame and spaced apart around the edges of said cross-partitions, each rib being secured to the edge

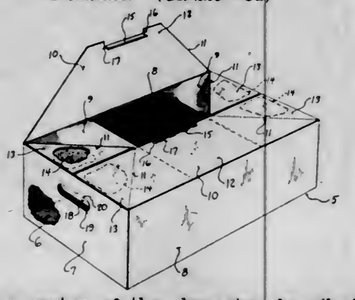
region of each partition; and a waterproof covering of sheet material enveloping the ribs and partitions throughout the endless extent of the frame, and forming, with said cross-partitions, a succession of water-tight air chambers within the frame.

2,287,519
MULTIPLE WARP LADDER WEB
George Frederick French, Manchester, England, assignor, by mesne assignments, to Roger French, Manchester, England, and himself
Application April 22, 1938, Serial No. 203,584
In Great Britain December 22, 1937
16 Claims. (Cl. 139—384)



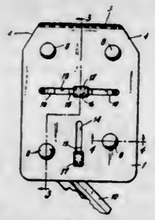
1. In ladder web including two woven outer bands and cross-straps therebetween at spaced intervals, the improvement which comprises three sets of warp threads, each set forming successively a section of an outer band, a binding-in thereon, a cross-strap, the opposite binding-in and a section of the opposite outer band, and additional warp threads continuously forming part of the respective outer bands.

2,287,520
CARTON
Edison C. Freshwaters, Milwaukee, Wis., assignor to Jos. Schlitz Brewing Company, Milwaukee, Wis., a corporation of Wisconsin
Application May 29, 1939, Serial No. 276,306
4 Claims. (Cl. 229—51)



1. In a carton of the character described: a wall composed of two sets of opposite hinged flaps folded one upon the other, the combined width of the flaps of one set being substantially equal to the dimension of the carton in the direction of the width of said flaps so that the free edges of said first designated flaps opposite their hinges are contiguous; two rows of perforations in each of the first designated flaps, each row of perforations extending uninterruptedly from the medial portions of the free edges of said first designated flaps to one corner of said wall at the flap hinges so that each corner of said wall is connected with a row of perforations and so that said first designated flaps are divided into medial sections adapted to swing to open positions on the hinge axes of said first designated flaps by the tearing of the first designated flaps along their perforations and end sections adapted to be swung to open positions on the hinge axes of the other flaps upon tearing of said first designated flaps along their perforations; and means for securing the end sections of said first designated flaps to said other flaps whereby all of said flaps are maintained in carton sealing positions and whereby tearing of the first designated flaps along their perforations releases the medial portions thereof for opening swinging motion on the hinge axes of said first designated flaps and releases said other flaps and the end sections of the first designated flaps connected thereto for opening swinging motion on the hinge axes of said other flaps thereby exposing the entire contents of the carton.

2,287,521
KEY CASE
William N. Handley, Richmond, Mo.
Application February 10, 1941, Serial No. 378,183
3 Claims. (Cl. 150—40)



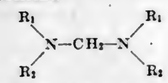
1. A key case comprising two side walls having integral hinge connection along one edge for swinging movements from and to approximately parallel positions and one of which walls has a transverse slot between said hinge connection and the opposite edge of the case, two laterally spaced combined fasteners and spacers connecting said walls between said slot and said hinge connection constituting pivots for keys and holding said walls from spreading apart, an additional fastener connecting said walls beyond said slot from said hinge connection and holding said walls in spaced relationship and also from spreading apart, and an actuator mounted for sliding movements in and along said slot and holding the intermediate portions of said walls spread apart and arranged to engage keys pivoted on either one of said combined fasteners and spacers and extending across said slot and to move said engaged keys to positions in which they extend laterally beyond said case while the keys pivoted on the other fastener and spacer remain unmoved.

2,287,522
PURIFICATION OF CAMPHOR
Clyde O. Henke, Wilmington, and Gastao Etzel, Newark, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 4, 1939, Serial No. 297,956
4 Claims. (Cl. 260—589)

1. The process of refining crude camphor which comprises adding to a solution of crude camphor in a solvent which is unreactive with camphor and caustic alkali, about 0.1 to 5% by weight of an alkali metal hydroxide based on said crude camphor, heating the same, distilling off the solvent and distilling off the camphor while maintaining a temperature of 185° to 230° C.

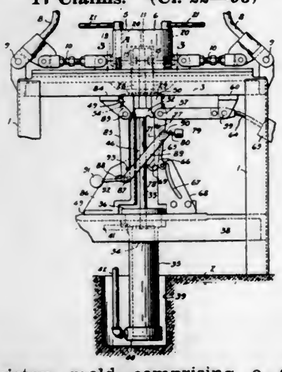
2,287,523
PROCESS FOR PREPARING FORMYL DIAMINES
Alva L. Houk, Philadelphia, Pa., assignor to Röhm & Haas Company, Philadelphia, Pa.
No Drawing. Application November 8, 1940, Serial No. 364,843
5 Claims. (Cl. 260—584)

1. The process of preparing N,N,N',N'-aliphatically substituted formyl diamines which comprises reacting by heating between about 70° C. and about 150° C. in the presence of a small amount of water methacrolein and a compound of the formula



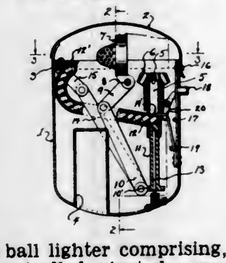
wherein R_1 and R_2 are aliphatic hydrocarbon groups.

2,287,524
MOLDING APPARATUS
Sidney W. Jackson, Parma, Ohio, assignor to The Permold Company, Cleveland, Ohio, a corporation of Ohio
Application February 26, 1941, Serial No. 380,695
17 Claims. (Cl. 22—93)



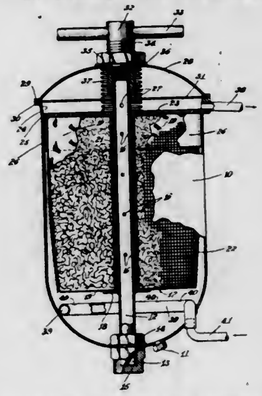
1. A piston mold comprising a supporting structure, mold sections recessed to define a casting cavity, a core having central and outer sections, means having connection with the central section and operative to withdraw the same from a casting, a member mounted on the structure and guided thereby for movement over a predetermined path, said member having pivotal connection with the outer sections, and mechanism secured to the outer section and adapted to make connection with said means during the withdrawal of the central section to be shifted by the operation of the withdrawing means to tilt the outer section on the pivot and then withdraw the outer section while the latter is guided by said member.

2,287,525
FIREBALL LIGHTER
Harry R. Kitts, Green Bay, Wis., assignor of one-half to Arthur W. Juster, Green Bay, Wis.
Application July 28, 1941, Serial No. 404,379
3 Claims. (Cl. 67—7)



1. A fire ball lighter comprising, a casing and a spring controlled pivoted cover therefor, an ignition sleeve fixed in the casing having a roughened surface discharge mouth, a fire ball tubular channeled magazine in communication with the lower end of the ignition sleeve, a reciprocative hammer rod mounted in the sleeve having its top face normally below the magazine channel track, and a toggle link connection between the ignition sleeve and casing cover for reciprocating the hammer rod, a reciprocating fire ball retaining finger extending into the sleeve for confining a fire ball, a manually controlled spring release lock for the cover and a lever engageable therewith for actuating the finger, the spring release lock being adapted to simultaneously release the cover whereby the fire hammer is reciprocated after withdrawing the ball release finger.

2,287,526
OIL FILTER
Alfred W. Krogman, West Long Branch, N. J.
Application October 25, 1941, Serial No. 416,489
12 Claims. (Cl. 210—140)

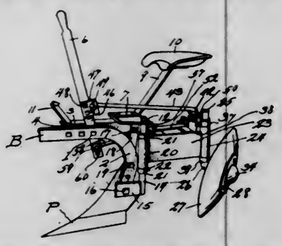


1. An oil filter embodying therein a casing, a standpipe within and projecting above said casing, a filter body within said casing about said standpipe, said standpipe having a plurality of spaced openings therethrough communicating with said filter body on different horizontal levels, means supporting said filter body away from the bottom of said casing to form a feed chamber, means forming a filtered oil chamber above said casing including a partition plate mounted upon said standpipe adjacent the top of said casing, and a removable closure for said casing forming, with said plate, the filtered oil chamber, said standpipe having an opening therethrough communicating with said filtered oil chamber, an oil outlet for said last named chamber, and oil delivery means comprising a pressure feed pipe within the feed chamber having a plurality of outlet openings in its length, whereby oil is delivered to said chamber at a plurality of points and with low velocity.

2,287,527
ROOT TRIMMING PLOW
Mathias J. Lentsch, Silverton, Oreg.
Application March 8, 1941, Serial No. 382,438
6 Claims. (Cl. 97—129)

2. In combination with a ground working implement, a root trimming plow comprising a beam plate, means for pivotally connecting said plate beam with the ground working implement, a shaft rotatably supported by the beam plate and dis-

posed in a vertical direction, a root trimming disk carried by the lower portion of the shaft and means carried by the ground working implement



and operatively connected with the plate beam and the shaft for simultaneously swinging the beam plate and rotating the shaft.

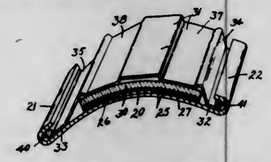
2,287,528

IRONER SHOE

Thomas J. Litle, Jr., South Bend, Ind., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware

Original application March 25, 1940, Serial No. 325,822. Divided and this application March 5, 1941, Serial No. 381,882

10 Claims. (Cl. 219—19)



1. In an ironing machine shoe having a sole plate and an electric heating unit comprising electrically insulated resistance elements, said heating unit being placed in contact with the back of said sole plate, in combination, a heat insulating member substantially covering said heating unit, a back member, a plurality of protuberances extending inwardly of said back member and positioned over said resistance elements in such manner as to spring said back member toward said sole plate, and means for fastening said back member to said sole plate, whereby said protuberances press said insulating member against said heating unit and force said heating unit into intimate contact with said sole plate thereby providing a conductor path of low resistance for the flow of heat from said resistance element to said sole plate.

2,287,529

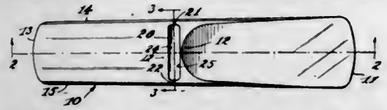
REED OF CANE, PLASTIC, OR ANY OTHER MATERIAL FOR CLARINETS, SAXOPHONES, AND LIKE MUSICAL INSTRUMENTS

Mario Maccaferri, New York, N. Y.

Application June 13, 1941, Serial No. 397,948

1 Claim. (Cl. 84—383)

In a plastic reed for musical instruments tapering at one end to form a vamp and having at the other end a mouthpiece attachment portion forming a heel, the combination of a cutout extending generally transversely to the longitudinal axis of the reed but not entirely across the same, and having no part of the cutout below the median plane of the reed, the longitudinal width of the cutout being smaller than its transverse length, said cutout being spaced from the longitudinal center not more than about one-sixth of the length of the reed measured from said center, shoulder portions flush with the upper surface of the reed extending longitudinally along the lateral margins of the reed and bounding each of the transverse ends of the cutout, and an un-



curved bottom of the plastic reed in a plane parallel with said median plane, the bottom wall of the cutout being above the median line and in a plane with the inner edges of the longitudinal shoulders, said cutout remaining open and unfilled, whereby the pitch tones are enabled to sound with their harmonics.

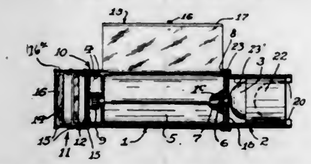
2,287,530

HANDY KIT NOVELTY

Emanuel R. Morando, New York, N. Y.

Application January 15, 1942, Serial No. 426,836

4 Claims. (Cl. 132—79)



1. In a handy kit and novelty device for pocketbooks, hand-bags and pockets of the character described, the combination, of an outer casing, preferably of a square design, said casing having a long slit longitudinally thereof, another longitudinal opening provided in another portion of said casing, a reflector mirror arranged within said casing, a roll of tissue paper arranged therein, one end of said casing having a handle portion, said handle portion having a refillable lipstick secured therein, the other open end of said casing providing means to have a hinged compact box inserted therein, said reflector mirror adapted to move up through said opening and to set upright thereon, said lip-stick adapted to be removed for use and replaced, said compact box adapted to be opened for using contents therein and for closing same when not in use, and means to turn said roll of tissue paper to feed out through said slit in said casing, for tearing off a required amount for use, means to reinsert said reflector mirror in said casing, and said compact box, cover of casing adapted to be removed to replace a new roll of tissue paper.

2,287,531

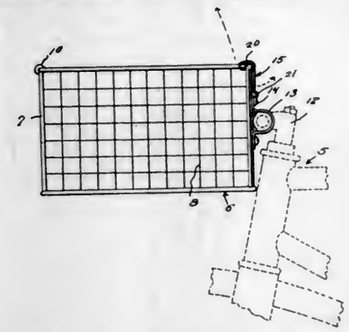
ARTICLE CARRIER

Sam Lee Ong, San Mateo, Calif.

Application May 6, 1941, Serial No. 392,190

1 Claim. (Cl. 224—36)

In a carrier for bicycles, a receptacle including a frame having upper and lower bars to each vertical wall thereof, spaced rigid flat members extending between and joined to the upper and lower bars of one of the vertical walls of the receptacle to reinforce the frame and each bent substantially intermediate its ends to form a seat for handle bars of a bicycle locating the receptacle above and below the plane of the handle bars with one of the lower bars of the receptacle frame resting against the frame of the bicycle, and substantially U-shaped clamps placed about and tightly engaging the handle



bars and detachably secured to the members at opposite sides of the seats.

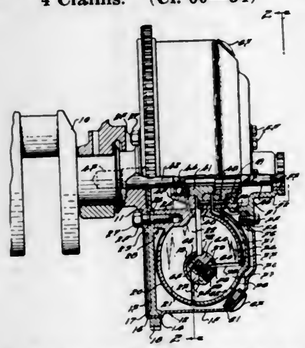
2,287,532

FLUID COUPLING

Herbert F. Patterson, St. Clair Shores, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application May 4, 1938, Serial No. 206,038

4 Claims. (Cl. 60—54)



3. In a fluid coupling including an impeller structure and a plurality of runner structures, each of said structures including outer and inner members bounding respectively a working chamber within which the fluid medium circulates and a non-working chamber about which the latter circulates, and balancing means carried by the inner member of each of said runner structures and disposed substantially within said non-working chamber, the member of one of said runner structures having openings therein adapted to accommodate access to the balancing means carried by the other of said runner structures.

2,287,533

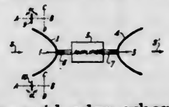
ULTRA HIGH FREQUENCY ANTENNA FEEDBACK BALANCER

Harold O. Peterson, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application March 10, 1939, Serial No. 260,947

9 Claims. (Cl. 250—15)

1. A high frequency relay station comprising a receiving antenna, a reflector for concentrating received signals on said antenna, an amplifier connected to said antenna and a transmitting antenna connected to an output of said amplifier, a baffle adjacent the edge of said reflector, said baffle being adjustable in its position with respect to said reflector and rotatable about an



axis parallel to said edge whereby energy of a predetermined magnitude and phase may be fed back from said transmitting antenna to said receiving antenna.

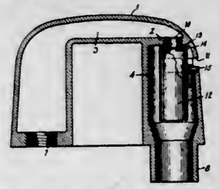
2,287,534

VACUUM BREAKER

James H. Powers, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York

Application March 19, 1941, Serial No. 384,117

5 Claims. (Cl. 137—111)



1. A vacuum breaker for connection in the supply line of a plumbing system, comprising a casing having walls defining an inlet chamber and an outlet chamber below the inlet chamber, a restricted conduit connecting said chambers, an overflow in the walls of the outlet chamber having an area greater than that required to carry all of the discharge from said conduit whereby the maximum liquid level in said outlet chamber is below the top of the overflow, said liquid level being spaced below the lower end of said conduit, a tubular shield mounted in the outlet chamber on said conduit and depending within the outlet chamber below said overflow opening for preventing splashing through said overflow opening, said shield being spaced from the walls of the outlet chamber, and a vent opening in said shield above said liquid level.

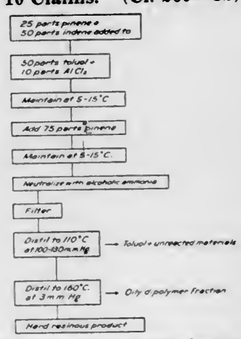
2,287,535

COPOLYMERIZATION OF TERPENE HYDROCARBONS AND COAL TAR HYDROCARBONS

Paul O. Powers, Lancaster, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania

Application June 8, 1939, Serial No. 278,128

10 Claims. (Cl. 260—32)



1. The process which comprises mixing a coal

tar fraction containing at least five per cent of unsaturated aromatic reactive material including coumarone and indene with a relatively small amount of terpene hydrocarbons of the $C_{10}H_{16}$ series as compared with the amount of unsaturated aromatic reactive material, reacting the mixture in the presence of aluminum chloride and a dispersing agent selected from the group consisting of benzene, toluene, chloroform, and carbon tetrachloride, thereafter adding a further quantity of terpene hydrocarbons and continuing the reaction, and neutralizing the reaction product.

2,287,536

UREA-PHENOL-FORMALDEHYDE ADHESIVE

Paul O. Powers, Lancaster, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania

No Drawing. Application June 8, 1939, Serial No. 278,129

3 Claims. (Cl. 260—45)

1. The process of making an adhesive, which comprises adjusting to a pH of about 5.5 to 7.0 a mixture of urea, phenol and an aqueous solution of formaldehyde containing 37% formaldehyde, the phenol being in the proportion of about 40% to about 60% of the total weight of phenol and urea, heating the mixture at a temperature of about 140 degrees to 180 degrees F. for about three hours and then boiling the mixture until it contains about 20% water.

2,287,537

PROCESS FOR THE PRODUCTION OF BETA-ALKOXYCARBOXYLIC ACIDS

Hermann Schulz, Neu-Isenburg, Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to Chemical Marketing Company Inc., New York, N. Y.

No Drawing. Application May 10, 1939, Serial No. 272,851. In Germany May 19, 1938

10 Claims. (Cl. 260—530)

1. The process of producing beta-ethoxypropionic acid which comprises establishing a mixture of beta-ethoxypropionaldehyde with about 2% of its weight of manganese acetate and about 25% of its weight of acetic acid, bubbling oxygen through said mixture over a period of about two hours to form a solution containing beta-ethoxypropionic acid, maintaining the temperature of said mixture at about 40° C. throughout the bubbling, and recovering said beta-ethoxypropionic acid by rectification in vacuo.

2,287,538

PROCESS FOR THE PRODUCTION OF DENSELY SINTERED CERAMIC MASSES

Karl Schusterius, Berlin-Dahlem, Germany, assignor to the firm Rosenthal-Isolatoren G. m. b. H., Selb (Bavaria), Germany

No Drawing. Application September 22, 1937, Serial No. 165,080. In Germany September 24, 1936

6 Claims. (Cl. 106—46)

1. A process of manufacturing dense ceramic materials, such as for electrical insulators, comprising the steps of forming a finely divided mixture consisting of about 30% to about 60% of slag obtained from calcium phosphate in the presence of reducing elements and silicate-containing materials, such as sand, in an electric furnace, and a balance substantially consisting of silicate selected from aluminum- and magnesium-silicates, shaping and finally sintering said mixture into a dense body.

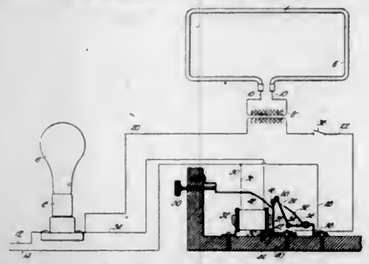
2,287,539

ELECTROMAGNETIC SWITCH

William Russell Spaulding, Kansas City, Mo.

Application January 9, 1939, Serial No. 249,987

1 Claim. (Cl. 200—87)



An electromagnetic switch for electrical circuits comprising an electromagnet; a vertically disposed armature, hinged at its lower end to permit the upper free end thereof to move toward and from the electromagnet; a roller on the face end of the armature extending along the full length of the longitudinal edge thereof and constituting a contact member of the switch; an inclined contact arm mounted to have one end thereof freely movable toward and from the armature and normally held by gravity against the roller on the armature; a roller on the said one end of the contact arm extending along the full length of the longitudinal edge thereof and in engagement with the roller on the armature; a stop to limit the movement of the armature toward the electromagnet to preclude direct contact of the former with the latter; a spring to yieldably hold the armature a predetermined distance from the electromagnet, said spring serving to force the armature from the electromagnet after the spring has had energy established therein by movement of the armature toward the electromagnet; and a resilient stop against which said contact arm strikes as it approaches the end of its path of travel farthest from said electromagnet, whereby said resilient stop serves to force the contact arm to return toward the electromagnet and aramature after the resilient stop has had energy established therein by movement of the contact arm away from the electromagnet and armature.

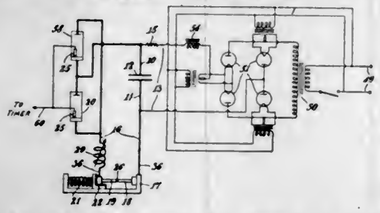
2,287,540

SURFACE WELDING

Alfred Vang, Detroit, Mich., assignor to Clayton Mark & Company, Evanston, Ill.

Application August 12, 1940, Serial No. 352,210

5 Claims. (Cl. 219—4)



1. An electric circuit for fusing a partially contacting juncture between conducting materials by means of a high frequency alternating current, said circuit consisting of materials held in partial contact for the fusing operation, electrodes for contacting said materials, a capacitor, means for charging said capacitor, and electronic switching means capable of passing a high frequency alternating current, said electrodes, capacitor and switching means being directly serially connected and so proportioned as to establish a high frequency alternating current upon discharge of said capacitor.

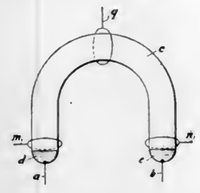
2,287,541

DISCHARGE TUBE

Alfred Vang, Detroit, Mich., assignor to Clayton Mark & Company, Evanston, Ill.

Application November 7, 1940, Serial No. 364,701

8 Claims. (Cl. 250—27.5)



1. A discharge tube of the character described, comprising in combination, an envelope of insulating material formed into the shape of an inverted U; a mercury electrode in each end of said inverted U-shaped envelope; means whereby said mercury electrodes may be connected to an outside circuit; an ignition electrode located outside said envelope near each of said mercury electrodes, and a control grid located outside said envelope half way between said mercury electrodes.

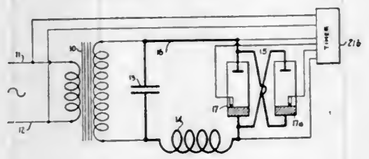
2,287,542

ELECTRIC INDUCTION HEATING

Alfred Vang, Detroit, Mich., assignor to Clayton Mark & Company, Evanston, Ill.

Application November 8, 1940, Serial No. 364,770

4 Claims. (Cl. 250—36)



1. A device for translating electric power, comprising a source of alternating current, a condenser connected across said source, a tube having two liquid electrodes, means for starting an ionized discharge in said tube, and an inductor, said inductor and said tube being connected in series across said condenser, said inductor and said condenser being tuned to a frequency sufficiently high so that said tube conducts at least one discharge in both directions during the deionization time of said tube.

2,287,543

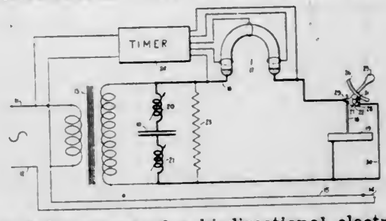
WELDING METHOD AND APPARATUS

Alfred Vang, Detroit, Mich., assignor to Clayton Mark & Company, Evanston, Ill.

Application December 18, 1940, Serial No. 370,687

7 Claims. (Cl. 219—8)

3. The method of electric arc welding which comprises discharging a capacitor through welding electrodes in timed relation to the charging



thereof, by means of a bi-directional electronic discharge device.

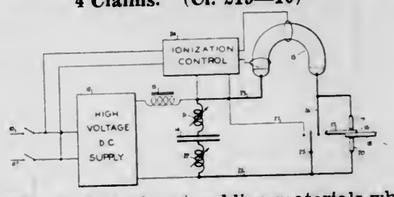
2,287,544

ELECTRIC WELDING OF METALS AND THE UNITING OF DISSIMILAR METALS

Alfred Vang, Detroit, Mich., assignor to Clayton Mark & Company, Evanston, Ill.

Application February 25, 1941, Serial No. 380,427

4 Claims. (Cl. 219—10)



1. The method of spot welding materials which includes placing said materials together so lightly as to maintain air spaces therebetween and applying to said materials a single discharge of electric current sufficiently heavy to cause an arc within said air spaces, said arc acting as a heating means for performing said weld by said single discharge, said current being supplied through spot welding electrodes applied to said materials with relatively light pressure, and said current being of such brief duration as to penetrate the materials only sufficiently to form a shallow weld therebetween.

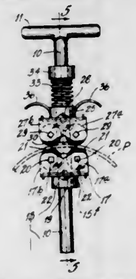
2,287,545

POLISHING TOOL

Vincent P. Wieck, St. Louis, Mo.

Application September 23, 1938, Serial No. 231,293

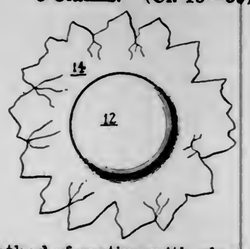
6 Claims. (Cl. 15—104.03)



6. In a tool of the kind described, a portable base having a handle and a slide-bar extending therefrom, a first abutment adapted to be adjustably secured along the slide-bar, a first slide on the bar, a spring between the first abutment and the slide, urging the slide away from the abutment, handle means on the first slide shaped to be engaged by the fingers while the palm of the hand engages the handle on the base, for

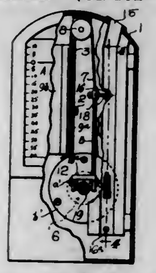
drawing the slide against the spring, a second adjustable abutment on the bar to limit movement of the first slide under influence of the spring, a second slide adjustably mounted on the slide bar for movement toward or from the first, means to secure the second slide in adjusted position, and brush means oppositely disposed on the slides.

2,287,546
PROCESS OF MANUFACTURING GLASS-COATED PLASTIC MATERIAL
Frederick J. Binda, Boston, Mass., assignor, by mesne assignments, to Polaroid Corporation, Dover, Del., a corporation of Delaware
Application February 24, 1938, Serial No. 192,234
5 Claims. (Cl. 18—59)



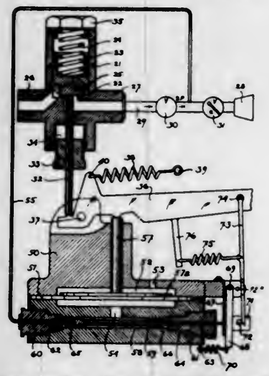
1. A method of coating with glass a lens formed of cellulose acetate comprising bringing a thin heated film of glass into contact with said lens, the film being of such a temperature as to conform readily to the surface of the lens with which it is brought in contact, said film being of such exceeding thinness as to harden in contact with the said surface of said lens without destroying the optical properties thereof, and pressing said film against said lens with substantially no more pressure than necessary to establish said contact and to cause said film to adhere to said cellulose acetate.

2,287,547
PARKING METER
Joseph F. Balisteri, Dallas, Tex.
Application May 20, 1938, Serial No. 208,987
2 Claims. (Cl. 161—15)



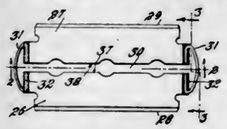
1. A parking meter including a housing having open sides, vertically slotted and numerically scaled faces in said openings, a rod having its ends protruding through said slots and carrying pairs of oppositely directed pointers, a weight connected intermediate the ends of said rod, a clock mechanism, a pulley operated by said clock mechanism, a clutch effecting connection between said pulley and clock mechanism, a cable connected to said pulley, a second pulley in the top of said housing, said cable overriding said second pulley and being joined to said weight to support the same, whereby said pointers will ascend from an initial position when said clutch is operative, and coin controlled means operative to release said clutch to cause said weight and pointers to drop to their initial position in said housing.

2,287,548
VALVE CONTROLLING APPARATUS
John Gustaf Mauritz Brodén, Malmo, Sweden, assignor to Kockums Mekaniska Verkstads, Aktiebolag, Malmo, Sweden, a corporation of Sweden
Application October 31, 1938, Serial No. 238,114
In Sweden November 2, 1937
16 Claims. (Cl. 137—139)



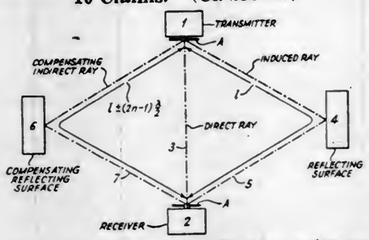
1. A valve device for controlling the flow of pressure medium in a conduit, comprising valve means, actuating means for operating the valve means, a releasable stop mechanism for normally maintaining the actuating means in position with the valve means closed, restoring means operatively associated with said actuating means for restoring the valve means, means communicating the restoring means with the pressure medium supplied to the valve means for actuating the restoring means, means independent of the pressure medium for actuating said releasable stop mechanism, and a second releasable stop mechanism cooperating with said actuating means for stopping the valve means in position with the valve means opened, said restoring means cooperating with said second stop mechanism so as to bring about the restoring of the valve means to its closed position upon release of said second stop mechanism.

2,287,549
RAZOR BLADE
Axel S. Carlson, New York, N. Y., assignor of one-half to Harris M. Humason, New Canaan, Conn.
Application April 22, 1939, Serial No. 269,462
4 Claims. (Cl. 30—351)



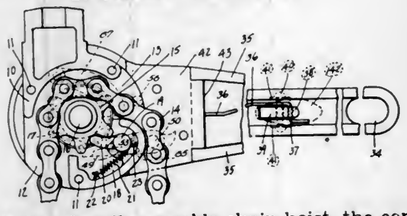
1. A razor blade unit comprising two separate blade sections movable toward and away from each other with a substantially right-line movement, the sections having inner opposed edges and one of said sections having an outer cutting edge, and spring elements connecting said blade sections.

2,287,550
RADIO SIGNALING
Philip S. Carter, Rocky Point, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application February 28, 1939, Serial No. 258,873
10 Claims. (Cl. 250—6)



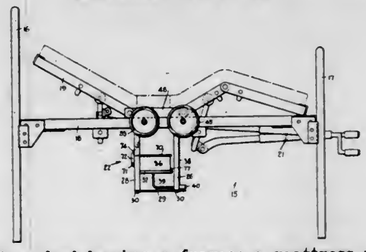
1. In a signaling system having a transmitter and a receiver with an antenna connected thereto, there being more than one path for intelligence modulated radiant energy from said transmitter to said receiving antenna, the method of avoiding interference caused by said multiple paths which comprises combining at said receiving antenna the energy arriving on all except one of said paths with similar energy in an opposing phase relationship whereby the effect of said undesired radiant energy paths is neutralized and receiving the intelligence modulated radiant energy arriving on said remaining path.

2,287,551
FREE CHAIN HOIST—FULL AUTOMATIC AND SEMIAUTOMATIC
Fredrick W. Coffing, Danville, Ill.
Application November 19, 1938, Serial No. 241,303
16 Claims. (Cl. 254—167)



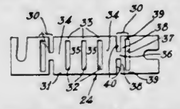
14. In a handle operable chain hoist, the combination with a support structure, a load chain sprocket, a ratchet, a shaft rigid with both and supported by the structure, an oscillatory handle for shaft movement and load control, a sprocket engaging pawl supported by the structure and normally constrained to sprocket engagement for load holding purposes, a handle carried pawl normally constrained to ratchet engagement for shaft rotation and load holding purposes, and handle carried manually operable means for removing the ratchet pawl from ratchet engagement in opposition to the ratchet pawl constraint, of means directly connected to the sprocket pawl and movable therewith, and other means carried by the handle and movable therewith, said last mentioned other means in handle movement for load lowering operatively engaging the directly connected means for sprocket pawl movement in opposition to its constraint to free the sprocket from that pawl for sprocket rotation in load lowering direction under load, said handle carried ratchet pawl and handle carrying the load while said handle continues its load lowering movement, said last mentioned other means in handle movement in the opposite direction being ineffective for actuating the directly connected means to release the sprocket pawl from sprocket engagement, the handle carried manually operable means when actuated after directly connected means operation releasing the ratchet pawl from ratchet engagement, the sprocket pawl then carrying the load and permitting free handle movement in said opposite direction, said other means and said directly connected means each having a cam face portion, each face portion of one means cooperating with the other for the purpose described.

2,287,552
HOSPITAL BED AND THE LIKE
John D. Dry, New York, N. Y.
Application December 28, 1938, Serial No. 248,055
3 Claims. (Cl. 5—90)



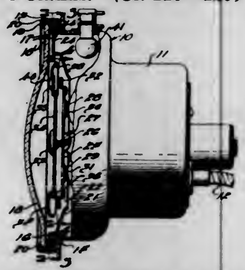
1. In a bed having a frame; a mattress positioned on said frame and provided with an opening, a separate mattress section fittable in said opening, a member supporting said mattress section and swingably connected to said frame, a first mechanism for moving said swingable member with said mattress section into and out of said opening, a support, means mounting said support on said frame for vertical movement, a bed pan on said support and adapted to be moved thereby into and out of said opening, a cover for said bed pan swingably supported on said frame, said cover being substantially V-shaped providing two legs, one of said legs projecting in the path of movement of said swingable member and engaging the same when said member is moved out of said opening, the other of said legs being engaged by said swingable member when it is moved into said opening, and a second mechanism mounted on said frame for moving said pan support, said second mechanism being adapted upon operation thereof to move said support towards and from said opening when said swingable member is moved out of said opening and said cover has been swung to one of its extreme positions.

2,287,553
FUSE
Donald W. Floten, Chicago, Ill., assignor to Chicago Roller Skate Company, Chicago, Ill., a corporation of Arizona
Application April 9, 1938, Serial No. 201,079
10 Claims. (Cl. 200—135)



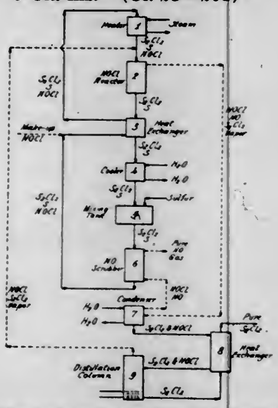
1. A fuse element made of sheet metal of uniform thickness comprising a pair of fusing sections connected by an intermediate section, each fusing section being elongated to provide sufficient electrical resistance with a large cross-sectional area, and having at least a part extending laterally of the element to provide an intermediate section of maximum length.

2,287,554
SPEEDOMETER
Wray C. Hansen, Highland Park, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application October 13, 1938, Serial No. 234,803
6 Claims. (Cl. 116—129)



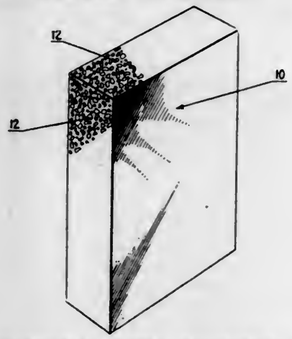
1. In an indicating device having an indicia bearing element; means for producing at any one time mainly only one of a plurality of diverse color signals comprising a movable indicating member having an opaque body portion provided with an indicating configuration in cooperative relation to said indicia bearing element, said indicating member being located in advance of said indicia bearing element, a fixed light ray coloring element having differently colored sections mainly concealed by said indicating member, said indicating member having an opening registerable with said differently colored sections during movement of said member, and a single source of light for projecting light rays through said light ray coloring element and opening and upon said indicia bearing element.

2,287,555
PRODUCTION OF SULPHUR MONOCHLORIDE
William C. Klingelhoefer, Syracuse, N. Y., assignor to The Solvay Process Company, New York, N. Y., a corporation of New York
Application January 5, 1939, Serial No. 249,420
9 Claims. (Cl. 23—205)



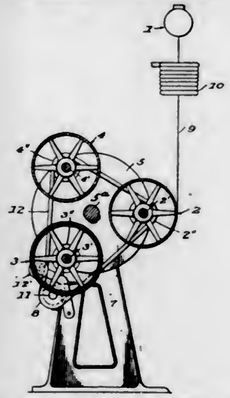
1. A continuous process for the production of sulphur monochloride which comprises continuously introducing nitrosyl chloride into contact with a reactant comprising a solution of sulphur in sulphur monochloride said reactant containing about 10% to 30% elemental sulphur and about 90% to 70% sulphur monochloride by weight, reacting said nitrosyl chloride with the dissolved sulphur at a temperature of about 100° C. to form a gaseous product comprising nitric oxide and an amount of sulphur monochloride vapor substantially equivalent to the sulphur monochloride formed in the reaction, continuously withdrawing said gaseous product and cooling it to condense sulphur monochloride therefrom.

2,287,556
TRANSLUCENT SCREEN
Edwin H. Land, Wellesley Farms, Mass., assignor, by mesne assignments, to Polaroid Corporation, Dover, Del., a corporation of Delaware
Application February 25, 1938, Serial No. 192,493
5 Claims. (Cl. 88—24)



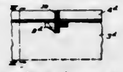
1. A translucent screen comprising a sheet-like, set dispersion of one transparent plastic material in the form of a discontinuous phase in another transparent plastic material in the form of a continuous phase, one of said plastics comprising benzyl cellulose and the other plastic comprising ethyl cellulose, the particles of the plastic forming the discontinuous phase having non-planar and non-parallel surfaces and having over-all diameters not exceeding substantially fifteen microns.

2,287,557
APPARATUS FOR CONTINUOUSLY DRAWING AND WINDING GLASS FIBERS
Piero Modigliani, Leghorn, Italy, assignor to Owens-Corning Fiberglas Corporation, Toledo, Ohio, a corporation of Delaware
Application March 3, 1939, Serial No. 259,705
In Italy March 9, 1938
9 Claims. (Cl. 49—1)



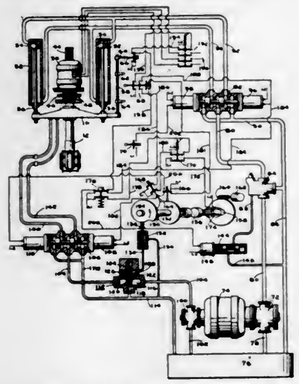
1. In an apparatus for continuously drawing and winding artificial fibers on drums which comprises a rotary frame, three drums disposed equidistantly around said frame and rotatably mounted therein, driving means for simultaneously rotating two of said drums and responsive to the angular movement of said frame to bring one of said two drums into disengaging position with said driving means while bringing the previously idle third drum into engagement with said driving means.

2,287,558
GRATING STRUCTURE
Harry S. Nagin, Pittsburgh, Pa., assignor to Reliance Steel Products Company, Rankin, Pa., a corporation of Pennsylvania
Application May 21, 1938, Serial No. 209,255
4 Claims. (Cl. 189—82)



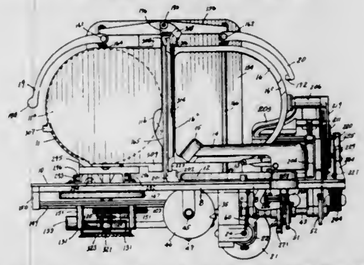
1. In a grating structure a plurality of bearer bars set on edge in spaced parallel relation, said bars having a bulbous uninterrupted head portion and a web portion, aligned straight slots in the web portion adjacent the head portion and flat cross bars disposed to extend through the slots of adjoining bearer bars, the top portion of said cross bars having recesses to conform to the head portion, and a tab portion extending from the base of each recess, the bottoms of said cross bars being continuous, the cross bar having bendable portions between the recesses which project vertically upwardly in the structure, the slots being so disposed and the bars so proportioned that the cross bars in the structure extend substantially to the top of the bearer bars and the tab portions lie in the slots, the top portions of the cross bars between the bearer bars being substantially straight.

2,287,559
POWER TRANSMISSION
Hugh C. Nye, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application December 17, 1938, Serial No. 246,251
7 Claims. (Cl. 51—34)



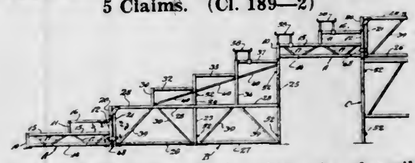
1. In a hydraulic power transmission for operating a honing machine the combination with a translatable head and an expansible hone carried thereby, of power means for effecting advancing and retracting movement of the head, a fluid motor for effecting expansion and contraction of the hone, a pump for supplying pressure fluid to operate the motor, adjustable pressure responsive means for controlling the rate of fluid delivery to the motor and thereby controlling the effective pressure on the fluid motor, power-operated means for adjusting the pressure responsive means to vary the fluid pressure effective in said motor during the honing operation, and means controlled by said power-operated means for controlling the power means for advancing and retracting the head.

2,287,560
AUTOMATIC PHONOGRAPH
Fred H. Osborne, Snyder, and Charles J. Hull, North Tonawanda, N. Y., assignors to The Rudolph Wurlitzer Company, Cincinnati, Ohio, a corporation
Application April 11, 1940, Serial No. 329,070
28 Claims. (Cl. 274—10)



17. In an automatic phonograph having a turntable and a reproducer, a record receiving carrier operable to place a record on the turntable for engagement by said reproducer, a magazine for containing a plurality of records movable with respect to said carrier for presenting a selected record thereto, a rotary member operably connected with said carrier to impart lineal motion thereto, said member having oppositely disposed and corresponding cam surfaces each of which is adapted to correspondingly position said magazine, a rotary switch rotatable with said member and having a series of contacts for closing a circuit to selectively position the magazine for the transfer of a selected record, mechanism actuated by the closing of said circuit operable to arrest the movement of said rotary member, and solenoid actuated means operably associated with said carrier to turn it for presenting one or the other side of its record to said reproducer, said means being controlled by the rotation of said member in rendering one or the other of its cam surfaces effective in the positioning of the magazine.

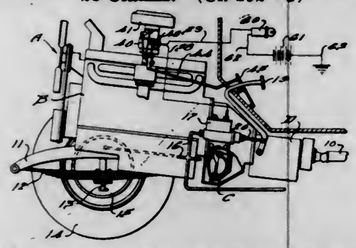
2,287,561
PORTABLE GRANDSTAND
Richard W. Page and John F. Roney, Hollywood, Calif.
Application July 29, 1940, Serial No. 348,084
5 Claims. (Cl. 189—2)



1. In a grandstand of the character described, a first unitary rigid frame comprising a front post, a rear post, said rear post being substan-

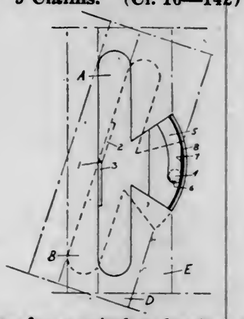
tially longer than said front post, and a step construction joining said posts, a second unitary rigid frame having a front post, a rear post, said rear post being substantially longer than said front post, and a step construction joining said second front post with said second rear post, the rear post of said first frame and the front post of said second frame being positioned adjacent to each other, and means to connect the upper end of said first named rear post with the second named front post.

2,287,562
BRAKE CONTROL
Gordon R. Pennington, Birmingham, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application November 1, 1939, Serial No. 302,289
23 Claims. (Cl. 192—3)



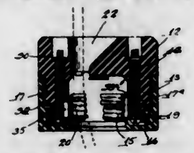
1. In an automotive vehicle having brake and accelerator pedals, a braking system including vehicle wheel brakes; apparatus operable by said brake pedal for applying said brakes; means for maintaining the application of said brakes after said brake pedal has been returned to its released position; mechanism operable by said accelerator pedal for controlling said means; and means including a fluid actuated switch operable automatically upon rapid deceleration of the vehicle for rendering said first means inoperable.

2,287,563
HINGE
Eric Sigfrid Persson, Malmo, Sweden
Application June 25, 1940, Serial No. 342,339
9 Claims. (Cl. 16—142)



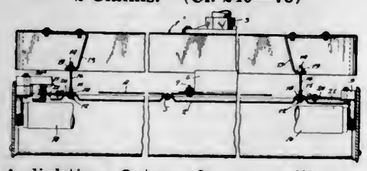
2. A hinge for a window having a frame and a sash adapted to pivot on a central horizontal axis in said frame, said hinge comprising a bearing member secured to the window frame, a pivot member secured to the window sash, two separate bearing surfaces on said bearing member, two separate pivotal bearing elements on said pivot member each for coaction with one of said bearing surfaces, said pivotal bearing elements being so positioned as to make the window sash occupy a stable equilibrium position with both pivotal bearing elements resting on their bearing surfaces, the window sash being movable from said equilibrium position towards closed position on one of said pivotal bearing elements and from the same equilibrium position in the opposite direction on the other pivotal bearing element, and resilient means for engaging and retaining one of the pivotal bearing elements at various distances above its bearing surface.

2,287,564
ELECTRIC FIXTURE
Paul D. Phillips, Elmhurst, Ill., assignor to Benjamin Electric Mfg. Company, Des Plaines, Ill., a corporation of Illinois
Application August 2, 1940, Serial No. 349,651
19 Claims. (Cl. 173—358)



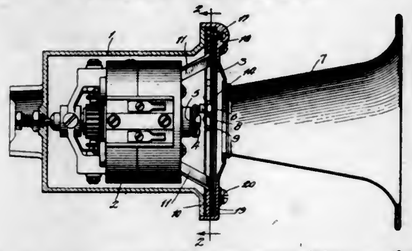
1. A socket comprising an insulating base having an axial lamp-base chamber therein, a split ring contact supported on said base and constructed to retain a lamp inserted in said chamber, said base having a side opening to said chamber corresponding to the split side of said ring, a center contact in said chamber, and wiring terminals intermediate the ends of said base and accessible through said side opening, said base having a longitudinal passage to enable wires to extend therethrough and into said chamber and inside said ring, said split ring being positioned relative to the side opening of said base to enable said wires to be bent laterally therethrough and into said side opening, said side opening providing access to said terminals for securing the wires thereto.

2,287,565
ELECTRIC LIGHTING FIXTURE
Paul D. Phillips, Elmhurst, Ill., assignor to Benjamin Electric Mfg. Company, Des Plaines, Ill., a corporation of Illinois
Application January 30, 1941, Serial No. 376,645
2 Claims. (Cl. 240—78)



1. A lighting fixture for use with an elongated fluorescent lamp comprising an elongated hood of channel section, a mounting member extending longitudinally of the hood and covered thereby, lamp holders mounted on said mounting member for supporting a lamp underneath said member, circuit-controlling apparatus electrically connected with said lamp holders mounted on said mounting member, and means for suspending said mounting member from said hood comprising a plurality of spaced internally threaded members carried by said hood, and a plurality of spaced vertically-extending screws, each screw having a swivel connection with respect to said mounting member, and two spaced threaded portions connected by a reduced shank, said two threaded portions being alternatively engageable with an internally threaded member for supporting said mounting member in two different positions with respect to said hood, said internally threaded members being located below the top of the hood a distance at least equal to the length of said reduced shank, said mounting member being clamped to the hood when the lower threaded portions of the screws engage the respective internally threaded members and the length of the reduced shank of each screw being at least equal to the distance which the mounting member must be dropped to enable wiring and inspection of the mounting member and the parts carried when the upper threaded portions of the screws engage their respective internally threaded members.

2,287,566
MOTOR OPERATED HORN
Paul D. Phillips, Elmhurst, Ill., assignor to Benjamin Electric Mfg. Company, Des Plaines, Ill., a corporation of Illinois
Application March 27, 1941, Serial No. 385,409
2 Claims. (Cl. 116—145)



1. A motor operated horn comprising a vibratable diaphragm, a motor operated ratchet wheel, and a force transmitting member in the path of the teeth of the ratchet wheel between the teeth and diaphragm for transmitting force from the ratchet teeth to the diaphragm, and means for oscillatably mounting said force transmitting member independently of said diaphragm comprising an elongated substantially straight spring having its center line extending in general tangentially to the circumference of the circular path of movement of the ratchet teeth as they move in engagement with said transmitting member.

2,287,567
COMPOSITION OF MATTER AND PROCESS OF USING THE SAME
Grover C. Porter, Maricopa, Calif.
No Drawing. Application November 24, 1939, Serial No. 305,938
7 Claims. (Cl. 252—331)

1. The process of demulsification of water-in-oil emulsions comprising treating the emulsion with a solution consisting of naphthalene and phenol in a dispersing liquid in which these materials and the oil of the emulsion are mutually miscible.

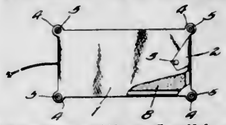
2,287,568
METHOD OF PRODUCING MOTION PICTURE FILM ILLUSTRATING SURGICAL TECHNIQUE
William Poy Jue, San Francisco, Calif.
Application June 11, 1940, Serial No. 339,894
4 Claims. (Cl. 35—17)

1. The method of producing a motion picture film of a surgical operation that comprises the steps of photographing successive appearances of a portion of the body that are graphically portrayed on separate sheets of material in which said appearances so portrayed are illustrative of successive stages of such operation,



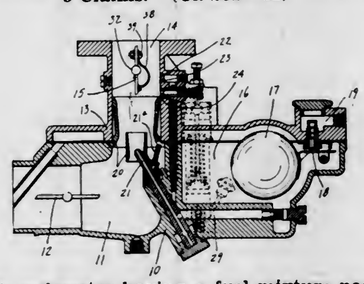
and, during said photographing, manually performing the steps of the operation on each sheet necessary to produce continuity of action between said successive appearances and to show the actual surgical technique employed in performing the operation.

2,287,569
ELECTRIC WARMING PAD
Hyman A. Premack, Chicago, Ill.
Application May 15, 1940, Serial No. 335,367
4 Claims. (Cl. 219—46)



1. In combination with a flexible encased electric heating pad comprising a complete operative unit, a separate stand for mounting the pad at an angle to the horizontal, said stand being free of sharp corners and adapted to be placed in a bed between bed covers for holding a heating pad in foot warming position and including a base, a pad support hinged to the base, means for releasably holding a pad on the outside of the support, means for releasably holding the support at an angle to the base approximating a right angle, whereby when the base is positioned in a bed the support holds a pad at an inclination approximately that of the soles of the feet of a person in the supine position and electric circuit establishing means extending to the pad independently of the stand whereby the pad remains an operative unit even when removed from the stand.

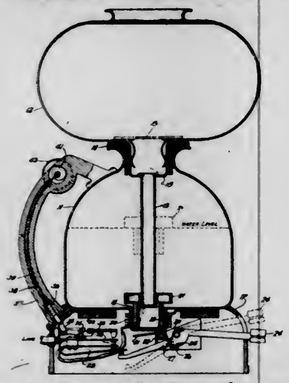
2,287,570
CARBURETOR
Edwin W. Pummill, Indianapolis, Ind.
Application January 17, 1941, Serial No. 374,869
5 Claims. (Cl. 261—41)



5. A carburetor having a fuel mixture passage and means including a nozzle for supplying liquid fuel thereto, said passage having spaced auxiliary

fuel ports communicating therewith, a butterfly throttle valve pivoted in said passage and adapted when in closed position to close off one of said ports from the down-stream side of said passage, said throttle valve having an opening therein adjacent to said ports, a plate pivoted on said throttle valve and normally lying within said opening, the pivot of said plate being eccentric of the opening whereby upon tilting of the plate in one direction the opening is uncovered and an edge of said plate is disposed adjacent to and upstream of said closed off port, said plate moved to open position by low pressure of a predetermined degree upon the down-stream side of said throttle valve, and means normally holding said plate in closed position.

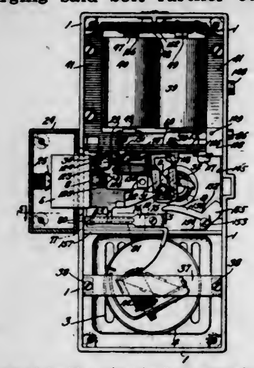
2,287,571
COFFEE MAKER
August C. Purpura, Chicago, Ill., assignor to General Electric Company, a corporation of New York
Application July 26, 1941, Serial No. 404,133
11 Claims. (Cl. 219—43)



1. A beverage brewer having a lower chamber for liquid, an upper infusion chamber communicating with said lower chamber, means for electrically heating said lower chamber to force fluid therefrom into said upper infusion chamber, a switch connected to control said heating means, said switch being biased toward open circuit position, a catch for retaining said switch in closed circuit position and an electromagnet adapted to operate said switch catch, said electromagnet having a flux path of a predetermined reluctance, and means responsive to a predetermined minimum level of fluid in said lower chamber for reducing the reluctance of the flux path of said electromagnet sufficiently to cause it to operate said switch catch to release said switch to open circuit position.

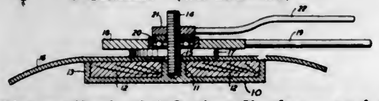
2,287,572
ALARM LOCK
Joseph R. Rodth, Wilkes-Barre, Pa., assignor to Burgroth Alarm Corporation
Application February 17, 1940, Serial No. 319,447
5 Claims. (Cl. 177—314)

1. An alarm lock mechanism including a lock casing, key actuated cylinder lock, bolt, keeper, bolt shifting knob, circuit controlled audible alarm, an electric circuit therefor including a source of current, a bolt controlled circuit closer in said circuit, knob actuated means for moving said bolt, key actuated means for moving said bolt and said knob actuated means, bolt abutment stop means within the keeper for limiting bolt movement outwardly of the casing to normal locking position within the keeper, and spring means associated with the bolt within the casing and urging said bolt further outwardly of



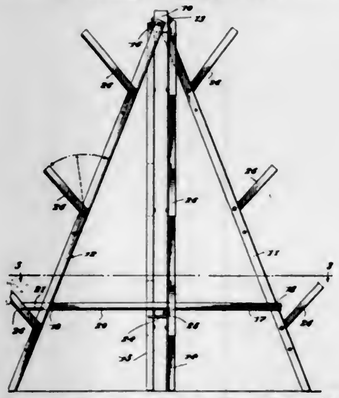
the casing, and bolt actuated means in the casing operable by such further bolt movement outwardly of the casing for bringing said circuit closer into circuit closing alarm sounding position.

2,287,573
INLAYING METHOD
Louis J. Schneider, Rockville Centre, N. Y.
Application April 23, 1940, Serial No. 331,110
5 Claims. (Cl. 154—26)



1. The method of inlaying linoleum and like materials, that comprises making a small orifice through the material within the area to be inlayed, severing the material to be replaced by an inlay by gradually applying forces simultaneously to both sides of the material, said forces cooperating by way of said orifice, removing the severed material, and securing a contrasting inlay in place of the removed material.

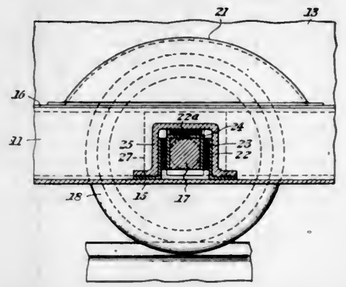
2,287,574
HAY RACK
Thomas Edgar Sikes, Greensboro, N. C.
Application January 27, 1941, Serial No. 376,219
4 Claims. (Cl. 211—29)



1. A knock-down rack of the class described

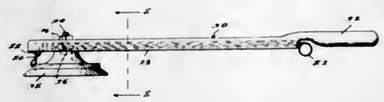
comprising a plurality of pivotally connected legs mounted for swinging movement to provide a substantially cone-like supporting rack when in a set-up position, braces for supporting the legs in a set-up position, pivotally mounted outwardly swinging retaining arms carried by said legs, and said braces having means engageable by some of said retaining arms for locking said braces against accidental detachment from said legs.

2,287,575
CAR AXLE MOUNTING
Chester G. Sensenich, Irwin, Pa., assignor to Irwin Foundry & Mine Car Company, Irwin, Pa., a corporation of Pennsylvania
Application April 25, 1941, Serial No. 390,308
4 Claims. (Cl. 105—224.1)



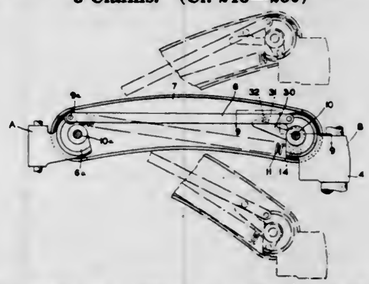
1. Means for mounting a square axle on a car bottom comprising a pair of pads of yieldable material extending along opposite sides of the axle near the ends thereof, plates bonded to the inner faces of said pads having flanges extending inwardly above said axle and bearing thereon, and plates bonded to the outer faces of said pads having flanges secured to said car bottom.

2,287,576
HANDLING DEVICE
Harry A. Solomon, Syracuse, N. Y.
Original application November 21, 1938, Serial No. 241,569. Divided and this application July 23, 1940, Serial No. 346,979
1 Claim. (Cl. 294—64)



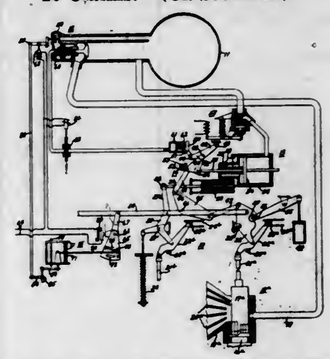
A manually manipulated handling device of the type described comprising a handle portion channel shaped in cross section and provided with a hand grip at one end thereof, a flexible suction cup secured to the opposite end of the handle portion, a wire secured at one end to said cup adjacent the peripheral edge thereof and extending axially through said channel formation toward said hand grip, the opposite end of said wire being formed with a finger engaging loop arranged below said handle in juxtaposition thereto, said loop being movable toward the handle by engagement with one finger while the hand grip is gripped by the hand, and said wire being operable during such movement of the loop portion to flex a portion of said cup out of engagement with the surface to which it is secured.

2,287,577
ADJUSTABLE SUPPORT
Robert J. Stava, East Cleveland, Ohio, assignor to Picker X-Ray Corporation Waite Manufacturing Division, Inc., Cleveland, Ohio, a corporation of Ohio
Application March 15, 1940, Serial No. 324,148
3 Claims. (Cl. 248—280)



3. Supporting means of the character described, comprising four members pivotally connected in generally parallelogram form, including oppositely disposed base and carrier members and oppositely disposed link members, spring means connecting two of said members which are relatively movable in such manner as to vary the parallelogram form and move the carrier member relative to the base member, a lever operatively connected with said spring means for varying the tension thereof, and coacting cam and follower parts for holding said lever in various adjusted positions, one of said parts being carried by one of said four members, and the other of said parts being operatively connected with said lever, said cam part having a controlling surface for loading said spring means to balance the turning moment of said carrier member and parts movable therewith in all operative positions of said supporting means, whereby said carrier member will move freely and will remain in any position to which it is moved.

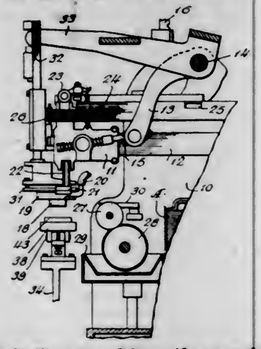
2,287,578
ELECTRIC CIRCUIT BREAKER
Carl Thumim, Yeadon, and John D. Gayer, Lansdowne, Pa., assignors to General Electric Company, a corporation of New York
Application August 28, 1940, Serial No. 354,608
10 Claims. (Cl. 200—148)



1. In an electric circuit breaker of the fluid-blast type comprising a plurality of relatively movable contacts, means for producing relative movement between said contacts, a source of fluid under pressure, means including a valve

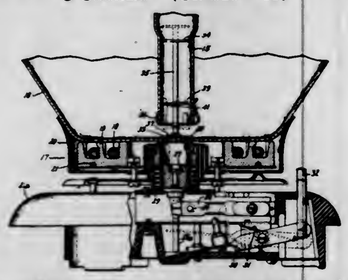
associated with said source for producing a blast of fluid adjacent said contacts during both the circuit-interrupting and the circuit-closing operations of said circuit breaker, means for causing opening of said valve for a period of time during said circuit-interrupting operation to produce an opening fluid blast, means for causing opening of said valve for a period of time during said circuit-closing operation to produce a closing fluid blast and means including a pivoted assembly having mounted thereon two independently adjustable means for adjusting the duration and time of initiation of said opening and closing fluid blasts.

2,287,579
LABELING MACHINE
George W. von Hofe, Bound Brook, N. J., assignor to New Jersey Machine Corporation, Hoboken, N. J., a corporation of New Jersey
Application December 21, 1940, Serial No. 371,147
12 Claims. (Cl. 216—12)



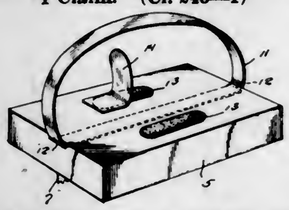
1. In a labeling machine, the combination of movable supporting means for articles to be labelled, and applying means for effecting the simultaneous application of a plurality of labels to said articles and in co-operation with the latter for adjusting said movable supporting means to automatically set said articles in the most efficient label receiving position.

2,287,580
COFFEE MAKER
Ernest A. Wagner, Milford, Conn., assignor to General Electric Company, a corporation of New York
Application October 16, 1941, Serial No. 415,225
5 Claims. (Cl. 219—43)



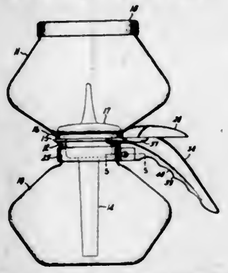
1. A coffee maker comprising a water heating vessel, a liquid transfer tube leading from said vessel through which the water is forced when it is heated, means for heating said vessel so as to heat the water therein, an actuating member in said tube, said member being provided with an aperture through which the fluid flowing in said tube can freely pass, a valve washer in said tube having an area relatively smaller than the cross-sectional area of said tube so that said fluid can flow freely through said tube around said washer, said washer being normally removed from said aperture, but movable to close said aperture responsively to a predetermined high rate of fluid flow in said tube, whereby the fluid can no longer flow through said aperture and acts upon said actuating member and washer to shift the position of said member in said tube, and a control element for said coffee maker operated responsively to the movement of said actuating member in said tube.

2,287,581
TISSUE DISPENSING DEVICE
David O. Walker, Johnston, S. C.
Application April 7, 1941, Serial No. 387,337
1 Claim. (Cl. 248—1)



In combination with a support including a substantially rigid panel and a tissue dispensing container having slots in opposite walls thereof, an endless elastic band extending through the slots and about the panel longitudinally thereof to urge the container always in the direction of one face of the panel, a second band extending tightly about the panel and transversely thereof, and adhesive pads applied to the container and adhering to the second band under the influence of the elastic band to prevent the latter and the container from accidentally shifting relative to the panel.

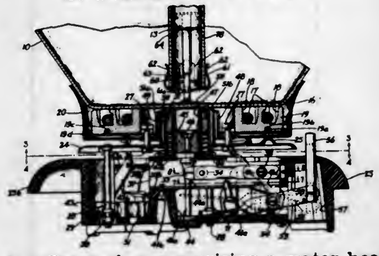
2,287,582
COVER STRUCTURE
Walter R. Weeks, Hamden, Conn., assignor to General Electric Company, a corporation of New York
Application March 22, 1940, Serial No. 325,428
4 Claims. (Cl. 53—3)



1. In a coffee maker and the like having a bowl provided with a top opening, a handle attached to said bowl adjacent said opening and having a laterally extending hand-grasping portion, a lid for covering said opening, a pivotal connection between said handle and said lid providing for swinging movement of said lid laterally from its

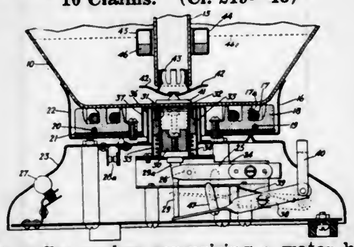
position over said opening to a position where it uncovers said opening on an axis substantially parallel with the central axis of said opening, and a depressed thumb rest formed in one side of said handle having a substantial area thereof lying under said cover when it is closed so that when said hand-grasping portion is grasped for pouring and the thumb is moved to said rest, the thumb engages the side edge of said lid and shifts it laterally from its fully closed position to an open position.

2,287,583
COFFEE MAKER
Walter R. Weeks, Hamden, Conn., assignor to General Electric Company, a corporation of New York
Application September 18, 1940, Serial No. 357,256
27 Claims. (Cl. 219—43)



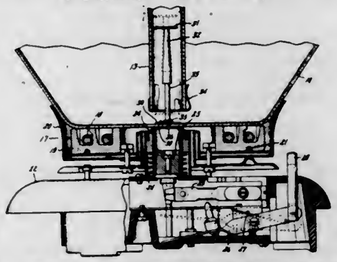
1. A coffee maker comprising a water heating bowl, a water transfer tube leading from said bowl, a heater for heating the water in said bowl to cause it to flow out of said bowl through said transfer tube, and means operated responsively to the flow of the water in said tube controlling said heater to reduce the heat applied to said bowl when the water has been substantially transferred from said bowl.

2,287,584
COFFEE MAKER
Walter R. Weeks, Hamden, Conn., assignor to General Electric Company, a corporation of New York
Application December 10, 1940, Serial No. 369,409
10 Claims. (Cl. 219—43)



1. A coffee maker comprising a water heating bowl, a liquid transfer tube leading from said bowl through which the water is forced when it is heated, means for heating said bowl, a pair of relatively movable cooperating control members for said heating means consisting of a magnet and an armature constructed and arranged to control said heating means to apply heat to said bowl when said members are moved to first predetermined positions relative to each other and to reduce the heat applied when moved to second predetermined positions relative to each other, the magnet functioning to maintain said members in said first relative positions, one of said members being mounted in said bowl, and a float in said bowl constructed and arranged to engage said one member when the liquid level in said bowl falls to a predetermined low level for moving it from the other member to cause said members to move to said second positions and thereby reduce the heat applied to said bowl.

2,287,585
COFFEE MAKER
Walter R. Weeks, Hamden, Conn., assignor to General Electric Company, a corporation of New York
Application February 7, 1941, Serial No. 377,887
6 Claims. (Cl. 53—3)

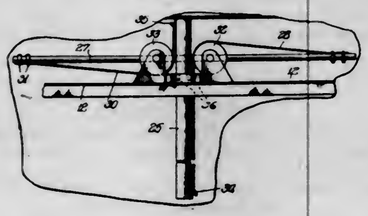


1. A coffee maker comprising a water heating vessel, a liquid transfer tube leading from said vessel through which the water is forced when it is heated, means for heating said vessel, a pair of relatively movable cooperating control members for said heating means consisting of a magnet and an armature constructed and arranged to control said heating means to apply heat to said vessel when said members are moved to first predetermined positions relative to each other and to reduce the heat applied when moved to second predetermined positions relative to each other, the magnet functioning to maintain said members in said relative positions, one of said members being mounted in said vessel on its bottom wall and the other outside of the said vessel opposite said one member, means operated responsively to the transfer of liquid from said water heating vessel moving said one member from said wall to cause said members to occupy said second predetermined positions, and said one member being provided with a series of openings therethrough to provide for the circulation of steam and water between the water in said water heating vessel and the space under said one member.

2,287,586
OUTSIDE STABILIZING MEANS FOR EXPANSION ROOF TANKS
Lester A. Wilkin and Charles L. Marner, East Chicago, Ind., assignors to Graver Tank & Mfg. Co., Inc., Catasauqua, Pa., a corporation of Delaware
Application March 21, 1940, Serial No. 325,146
8 Claims. (Cl. 220—26)

1. In a storage tank for volatile liquids, an expansion roof for said tank movable with respect thereto to vary the vapor space within the tank, means providing a seal between the tank and the roof to confine vapors within the tank, means for guiding the roof in its up and down travel including posts depending from the roof and located exteriorly of the tank, a cable extending around the exterior of the tank and supported thereby for circumferential movement, and means connecting said cable to the top and

bottom of each post respectively and arranged to cause movement of said cable in one direction as a result of up travel of the roof and movement



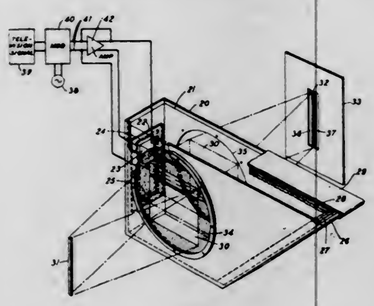
of the cable in the opposite direction as a result of down travel of the roof, whereby the roof maintains a substantially horizontal position during said travel.

2,287,587

LIGHT MODULATING APPARATUS

Gerald W. Willard, Fanwood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application November 2, 1939, Serial No. 302,544
18 Claims. (Cl. 88—61)



2. An electro-optical light controlling apparatus comprising electrically controlled light controlling means for partially controlling a light beam in accordance with a certain light transmission-voltage characteristic and a second electrically controlled light controlling means for partially controlling the light beam in accordance with a different light transmission-voltage characteristic, the light transmission of the first light controlling means being greater than that of the second light controlling means at a certain voltage and the light transmission of the second means being greater than that of the first at a different voltage.

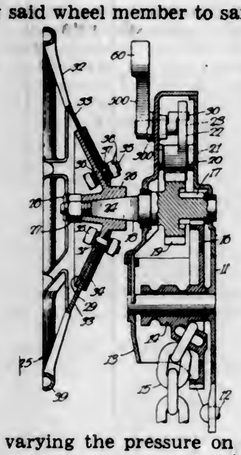
2,287,588

HAND BRAKE

Jack Wilson, Chicago, Ill., assignor to Universal Railway Devices Company, a corporation of Delaware

Application November 10, 1939, Serial No. 303,848
9 Claims. (Cl. 74—505)

1. In a railway brake, a brake operating shaft, ratchet mechanism, including a ratchet wheel fast on said shaft, for holding said shaft in brake holding position, a brake wheel member for operating said shaft, friction means for yieldingly connecting said wheel member to said shaft, and



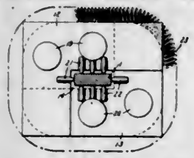
means for varying the pressure on said friction means.

2,287,589

WIRE COATING DIE

Irving H. Wilson and Alexander G. Beaver, Lynn, Mass., assignors to General Electric Company, a corporation of New York

Application July 17, 1940, Serial No. 345,992
6 Claims. (Cl. 91—53)



1. A die for use in coating wires of substantially rectangular cross-section with liquid coating material, said die comprising two L-shaped sections, at least part of the extending portions of each of said L-shaped sections comprising a plurality of spaced parallel flat fingers interleaved with the opposite spaced parallel fingers of the other of the two L-shaped sections, the two L-shaped sections cooperating to form a substantially rectangular die opening and being free to move with respect to one another to vary the size of said die opening, means on the interior surfaces of said L-shaped section for centering within said die opening the wire to be coated, and means for holding said L-shaped sections in operating position about said wire.

2,287,590

FLUOROARYLAMINOANTHRAQUINONE ACID WOOL DYESTUFFS

Alexander J. Wuertz, Wilmington, Del., Henry R. Lee, Pitman, N. J., and Edwin C. Buxbaum, Swarthmore, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 31, 1940, Serial No. 338,222
5 Claims. (Cl. 260—373)

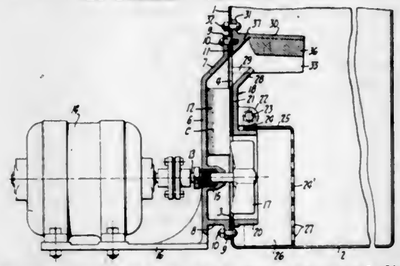
1. Compounds of the class consisting of 1-amino-4-arylaminoanthraquinones and 1-hydroxy-4-arylaminoanthraquinones in which the arylamino groups are of the benzene series and which carry fluorine directly attached to the aryl ring of the arylamino radical, and their sulfonic acid derivatives.

2,287,591

DISHWASHING APPARATUS

William R. Adams, San Francisco, Calif.

Application June 3, 1941, Serial No. 396,383
14 Claims. (Cl. 259—95)



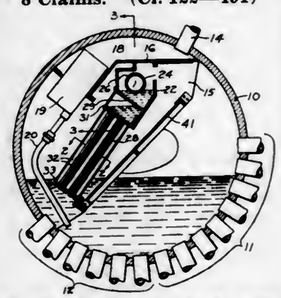
1. In a dishwashing tank, for water and dishes, having side walls and a bottom wall; a generally vertically extending conduit outside said tank, one of the walls of which conduit comprises one of said side walls; an inlet at the lower end of said conduit, and an outlet at the upper end of said conduit respectively formed in said one of said side walls and communicating between the interior of said tank and said conduit; a vertically disposed propeller within said tank adjacent said inlet and coaxial therewith for moving water from the tank through said conduit from the said inlet to said outlet; and a motor outside said tank and said conduit connected with said propeller for rotating the same to cause said movement of said water.

2,287,592

STEAM PURIFYING APPARATUS

L V Andrews, Worcester, Mass., assignor to Riley Stoker Corporation, Worcester, Mass., a corporation of Massachusetts

Application February 15, 1940, Serial No. 319,083
8 Claims. (Cl. 122—491)



1. Steam purifying apparatus comprising, in combination with a steam-and-water drum having a steam outlet, a series of parallel metal conduits located within the drum and arranged in a plurality of rows, the conduits extending downwardly across the path of the steam as it flows toward the outlet, and means to supply boiler feed water to the conduits for flow therethrough in amounts progressively decreasing in the direction of steam flow past the conduits.

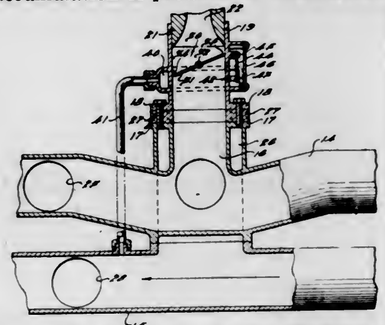
2,287,593

CARBURETOR

Thomas M. Ball, Detroit, Mich., assignor to Ball & Ball Carburetor Company, Detroit, Mich., a partnership

Application February 5, 1940, Serial No. 317,352
8 Claims. (Cl. 123—122)

1. In an internal combustion engine having a carburetor, a throttle valve for regulating the admission of fuel and air mixture to the engine, and an exhaust passage for conducting exhaust gases away from the engine, means for preventing accumulation of products of condensation at



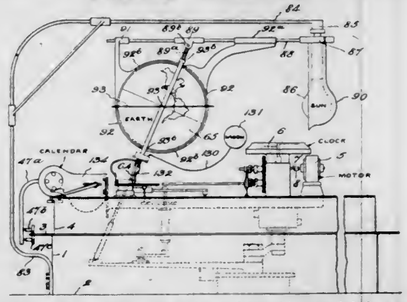
the orifices of said throttle valve during idling operation before the engine has become warm comprising a chamber surrounding said throttle valve and means for conducting exhaust gases from said exhaust passage into said chamber.

2,287,594

TELLURIAN

Angelo Barbagelata, Matawan, N. J.

Application March 25, 1941, Serial No. 385,051
9 Claims. (Cl. 35—45)



1. In a tellurian, the combination which comprises a sun-simulating sphere, an earth-simulating globe adapted to revolve about said sphere and its own axis, constant speed driving means for rotating said globe about its axis, driving means for causing said globe to revolve about said sphere connected to said constant speed driving means, and a variable ratio transmission mechanism intermediate to said constant speed driving means and said means for causing said globe to revolve about the sphere, which mechanism proportions the rate of rotation of said globe about its axis to that of the globe about the sphere, in simulation of the corresponding movement of the earth relative to the sun.

2,287,595

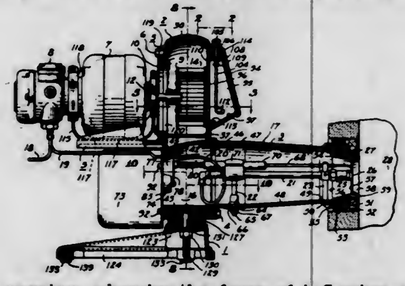
APPARATUS FOR CONTROLLING AIR FLOW

Reginald W. Beckett, Elyria, Ohio

Application February 5, 1940, Serial No. 317,243
12 Claims. (Cl. 230—114)

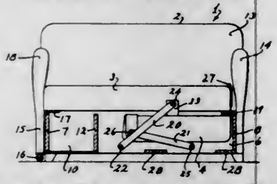
1. In an oil burner having a housing structure providing a blower chamber and a blower in the chamber, means providing an air inlet opening for said chamber disposed in a generally hori-

zontal position so that air entering into the housing flows in a generally vertical direction through the opening, a gate and means mounting the same for pivotal movement across said opening from a normal position in which the gate is generally horizontal to close the opening to an upright position in which the gate is displaced from



the opening, whereby the force of inflowing air displaces the gate from normal position and the movement of the center of gravity of the gate toward the pivot axis thereof during said displacement effects a reduction in the air force required to move the gate, and means limiting the displacement.

2,287,596
CHAIR BED
Joseph D. Bell, San Francisco, Calif.
Application December 19, 1940, Serial No. 370,756
12 Claims. (Cl. 5—25)

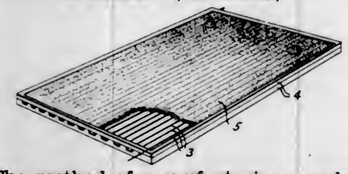


5. In an extensible settee or the like, a main frame, an auxiliary seat, and means for supporting the latter bottom-up in the frame, the said means comprising a rearwardly inclined link having one end pivoted to the main frame near the bottom of the frame and forward of the front edge of the seat and having its other end pivoted to the seat substantially above the bottom of the seat and midway of its length, and a forwardly inclined link having one end pivoted to the frame near the bottom of the same and substantially rearward of the first link and having its other end pivoted to the front portion of the seat substantially below the bottom plane thereof, whereby when the rear edge of the seat is raised, the seat is turned toward vertical position with the lower front portion of the seat serving as the axis of the turning movement and without any substantial lowering of any portion of the seat.

2,287,597
MANUFACTURE OF MELAMINE
Alfred Brookes, London, England, assignor, by mesne assignments, to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application May 11, 1940, Serial No. 334,655. In Great Britain May 11, 1939
11 Claims. (Cl. 260—248)

1. Process for the manufacture of melamine by polymerizing thereto by fusing at least one substance selected from the group consisting of cyanamide and dicyandiamide in the presence of at least one substance selected from the group consisting of the salts of guanidine, biguanide and derivatives thereof, the guanidine radicle of which is not decomposed during fusion under such conditions of time and temperature control that the salt is little decomposed to the extent of guanidine radicle being disrupted with loss of ammonia so that the salt remains and is recoverable for use in polymerizing further cyanamide or dicyandiamide.

2,287,598
METHOD OF MANUFACTURING LIGHT-POLARIZING BODIES
Charles H. Brown, Baldwin, N. Y., assignor to Polaroid Corporation, Dover, Del., a corporation of Delaware
Original application December 28, 1937, Serial No. 182,039. Divided and this application July 31, 1940, Serial No. 348,864
8 Claims. (Cl. 88—65)



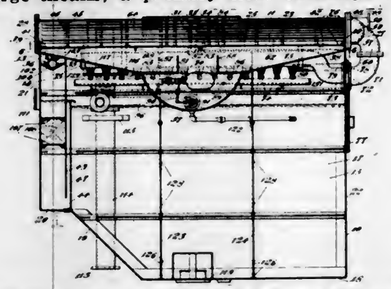
1. The method of manufacturing a polarizing body consisting of a transparent optical element having embedded therein a plurality of minute parallelly arranged electrical conductors, which comprises introducing parallelly arranged wires into said optical element, heating said wires and optical element simultaneously to bring said element into a plastic condition, and stretching said element and wires to elongate said wires and bring same closer together until the diameter of each wire has been reduced to substantially one-half micron or less and until the distances between the traces of adjacent wires on a plane parallel to the surface of said element are reduced to substantially one-half micron.

2,287,599
PRODUCTION OF DEXTRINE FROM STARCH
August J. Bulfer, Berwyn, and Clark C. Gapen, Oak Park, Ill., assignors to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application July 5, 1940, Serial No. 344,070
10 Claims. (Cl. 127—38)

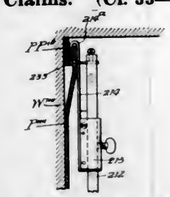
1. In the process of making dextrine which comprises heating starch in a dry state having distributed therein a converting agent: the improvement which consists in using as said converting agent monochlor acetic acid and chlorine gas with the material maintained at dextrinizing temperatures.

2,287,600
DEAERATOR AND FEED HEATER
John E. Burkhardt, Quincy, and Benjamin Fox, Wollaston, Mass., assignors to Bethlehem Steel Company, a corporation of Pennsylvania
Application March 29, 1940, Serial No. 326,646
8 Claims. (Cl. 183—2.5)

1. In an apparatus for deaerating and heating feed water, a single container comprising: a secondary heat exchange compartment having inlet means adapted for supplying a heating fluid thereto; a condensate collecting compartment having inlet means for receiving condensate and vapor from said secondary heat exchange compartment; a condensate deaerating compartment having fluid conveying conduit means for receiving condensate from said condensate collecting compartment adapted to discharge the same into said condensate deaerating compartment in comminuted streams; a feed water deaerating and storing compartment having vapor inlet means for receiving vapor from said condensate deaerating compartment, condensate liquid seal inlet means for receiving condensate from said condensate deaerating compartment, a feed water emergency overflow discharge means, and a feed water storage discharge means; a primary heat exchange compartment having fluid conveying conduit means for receiving vapor from said feed water deaerating and storing compartment, fluid conveying conduit means for receiving vapor from said condensate collecting compartment, condensate liquid seal outlet means for discharging condensate into said feed water deaerating and storing compartment, and outlet means adapted to communicate the same with the atmosphere; and means for conducting feed water to be heated and deaerated successively in heat exchange relation with vapor in said primary heat exchange compartment, and with vapor in said secondary heat exchange compartment, and then into a discharge means adapted to discharge feed water in a plurality of comminuted streams within said feed water deaerating and storing compartment.

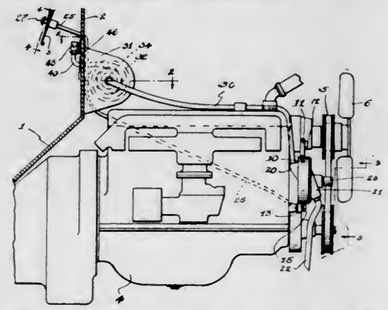


2,287,601
SCRIBER
George H. Callaghan, Chicago, Ill.
Continuation of application Serial No. 201,270, April 11, 1938. This application November 20, 1940, Serial No. 366,454
8 Claims. (Cl. 33—41)



1. As a new article of manufacture, a scriber adapted for use in scribing pieces of linoleum and like material in connection with application or laying thereof and comprising an elongated bar having at one end thereof a transversely extending scribing needle adjustable in the direction of its length and having the point thereof projecting beyond one side face of the bar, a tubular slide block mounted on the bar for sliding movement longitudinally of the latter and provided with means for releasably securing it in the various positions into which it is slid, and an elongated comparatively narrow arm positioned in opposed relation with, and spaced a short distance from, said one side face of the bar and having one of its ends fixedly connected to the block so that it is bodily slidable with the latter relatively to the bar and having the other end thereof opposite said one end of the bar and provided with a centrally disposed longitudinal closed ended slot through which the point of the needle extends and also provided with a single laterally disposed cylindrical guide element adjacent its outer extremity projecting in the same direction as the point of the needle.

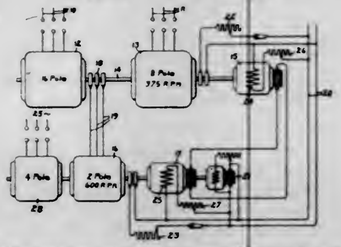
2,287,602
VACUUM SWEEPER FOR AUTOMOBILES
Edward Campbell, Detroit, Mich.
Application March 26, 1941, Serial No. 385,385
1 Claim. (Cl. 15—15)



A vacuum sweeper for an automotive vehicle having an engine compartment and a passenger compartment separated by a partition, a suction fan including a housing having an inlet and an outlet, means for mounting the suction fan in the engine compartment, the suction fan having an operating member, control means operable to shift the operating member into and out of cooperative relationship with an element driven by the engine for controlling the operation of the suction fan, a casing mounted on said partition in the engine compartment, the partition having an aperture therein which opens into the passenger compartment and the casing, a reel journaled in the casing on an axis substantially paralleling the partition, the reel having a hollow interior which opens on its axis, a conduit extending from the inlet of the housing through the casing on the axis of the reel and into the hollow of the reel, a flexible conduit adapted to be wound upon the reel and having one end connected with the hollow interior of the reel, said flexible conduit extending through the aperture in the partition and into the passenger compartment and arranged to have a nozzle attached thereto, said aperture snugly fitting the flexible conduit substantially throughout its circumferential extent, the reel having a single groove formation relatively large as compared to the diameter of the flexible conduit whereby a plurality of convolutions of the flexible conduit are superimposed upon each other when the flexible conduit is wound upon the reel so that all convolutions are in approximate alignment with the aperture in the partition, and spring means acting on the reel to normally wind the flexible

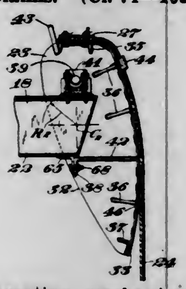
conduit thereon and arranged to flex for the withdrawing of the flexible conduit from the reel into the passenger compartment for use.

2,287,603
FREQUENCY CHANGER SET
Charles C. Clymer, Altamont, N. Y., assignor to General Electric Company, a corporation of New York
Application April 1, 1942, Serial No. 437,107
3 Claims. (Cl. 171—123)



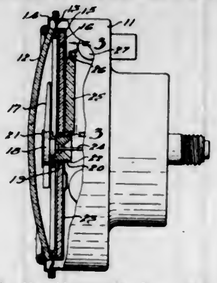
1. A frequency changer comprising a main set having a wound secondary induction machine and a synchronous machine with their rotary members mechanically connected together, auxiliary control apparatus therefor comprising a synchronous machine and a direct current machine having their rotary members mechanically connected together, the synchronous machine of said auxiliary apparatus being electrically connected to the secondary of said induction machine, a second direct current machine having its rotary member mechanically connected with the rotary members of the main set and being electrically connected in series with the first mentioned direct current machine, a direct current supply for the field windings of said synchronous and direct current machines and means for varying the current in such field windings.

2,287,604
WALKING BEAM
George S. Comstock, Jr., Bethlehem, Pa., assignor to Bethlehem Steel Company, a corporation of Pennsylvania
Application May 29, 1940, Serial No. 337,805
11 Claims. (Cl. 74—103)



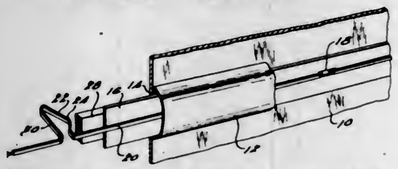
1. In well operating mechanism, a Samson frame, a walking beam bearing mounted on said frame, a walking beam mounted for oscillatory motion in said bearing, an adjustable bearing mounted at one end of said walking beam, the said adjustable bearing comprising a beam plate and a bearing block, the said beam plate being adapted for fixed engagement with the said walking beam end and having a spherically curved bearing surface, the said bearing block having a spherically curved bearing surface adapted for engagement with the spherically curved bearing surface of said beam plate and having a shaft bearing opening adapted to seat a shaft, an abutment on the said walking beam end, a horsehead comprising a mounting shaft adapted for engagement with said saddle bearing opening and a clamping bracket, means for adjustably fixing the said adjustable bearing upon the said walking beam end, and means for adjustably fixing the said clamping bracket to the said abutment.

2,287,605
INDICATING DEVICE
John B. Dickson and Henry R. Voorhees, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application May 28, 1941, Serial No. 395,606
12 Claims. (Cl. 116—129)



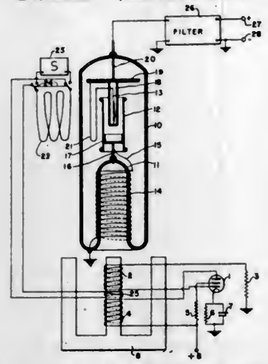
1. In an indicating device, an illuminable transparent element having a configuration associated therewith, a transparent element for receiving light and reflecting the same to edge illuminate the first mentioned element, and light focusing member disposed in light transmitting relationship between a source of light and the second mentioned element and having a light receiving end adjacent said source including a light reflecting surface constituting a portion of an elliptical surface of revolution and an outlet end adjacent the second mentioned element for emitting light upon the latter, said outlet end being located substantially at a focus of the ellipse of which said surface portion is a surface of revolution.

2,287,606
FASTENING DEVICE
Walter R. Eady, Royal Oak, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application July 8, 1940, Serial No. 344,365
4 Claims. (Cl. 189—88)



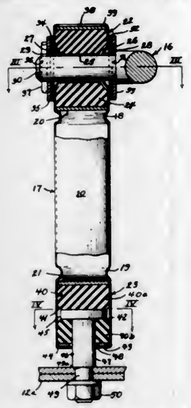
1. A trim molding assembly comprising a channel member having its edges reversely bent inwardly, a holding strip in said channel between the body of said channel and its inwardly turned edges, and a fastener consisting in an elongated metal strip having a multiplicity of fastener elements formed at spaced intervals along the length of said strip as an integral part thereof, said metal strip extending between said holding strip and the body of said channel with said fastener elements projecting through said holding strip.

2,287,607
RECTIFIER
Philo T. Farnsworth, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware
Application March 5, 1940, Serial No. 322,362
1 Claim. (Cl. 250—27.5)



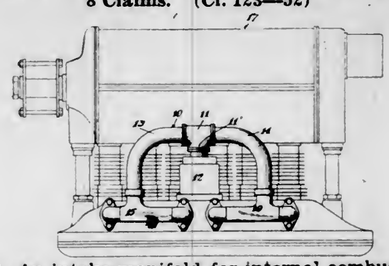
A unitary rectifier tube structure comprising an envelope having a hollow re-entrant stem, a cathode, an anode, and a secondary winding wound on said re-entrant stem within said envelope and supported thereby, said winding being connected to said anode and adapted to be coupled to a primary winding disposed in said re-entrant stem outside of said envelope.

2,287,608
JOINT ASSEMBLY
Oliver S. French, Detroit, Mich., assignor to Thompson Products Incorporated, Cleveland, Ohio, a corporation of Ohio
Application May 10, 1940, Serial No. 334,317
1 Claim. (Cl. 74—579)



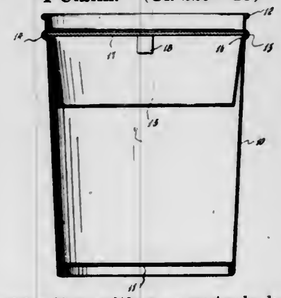
In a shock absorber assembly including a link having side and end walls defining bushing housings at the ends thereof, a shock absorber with a swingable arm having an end portion extending through the side wall of the link into one bushing housing of the link, means in said bushing housing resiliently mounting said end portion of said arm, and a construction acted on by said shock absorber through said link, the improvements which comprise a headed stud fixedly mounted on said construction having a shank extending through an end wall of said link in spaced relation from said end wall and a head with opposed faces seated in the other bushing housing of the link, a resilient member in said other bushing housing receiving the stud shank and having an end face abutting one face of the stud head, and a second resilient member in said other bushing housing having an end face abutting the opposite face of the stud head, said resilient members resisting relative tilting movements between the stud and link whereby the link is adapted to wobble relative to the construction upon misalignment of the stud and resiliently mounted end portion of the arm while said resilient members urge the link to realign said stud and end portion of the arm thereby aiding the shock absorber.

2,287,609
MANIFOLD FOR INTERNAL COMBUSTION ENGINES
Alfred T. Gregory, Farmingdale, N. Y., assignor to Fairchild Engine and Airplane Corporation, Farmingdale, Long Island, N. Y., a corporation of Maryland
Application June 27, 1940, Serial No. 347,827
8 Claims. (Cl. 123—52)



1. An intake manifold for internal combustion engines comprising a tube having branches each communicating with a carburetor and intake ports of an internal combustion engine, said branches being of such length as to have a resonant frequency which is substantially equal to or a multiple of the forcing frequency of said engine at maximum brake means effective pressure.

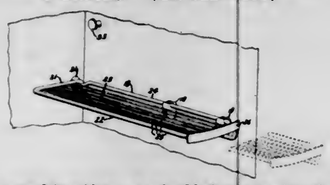
2,287,610
CREAM CHEESE BOX OR CARTON
Charles Louis Guidry, New Orleans, La., assignor of one-half to L. P. Forrester, New Orleans, La.
Application November 9, 1939, Serial No. 303,686
1 Claim. (Cl. 229—15)



In combination with a receptacle having a rib about the same providing an interior groove, a receptacle within the first receptacle having an outwardly extending upper portion of greater

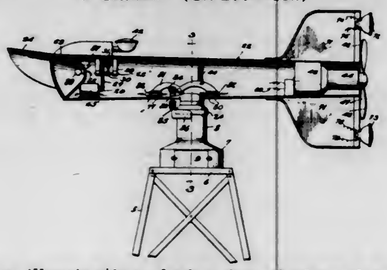
diameter than the interior of the first receptacle at the entrance to the groove suspended in said groove, and a closure disposed in said groove above said portion of greater diameter than the interior of the first receptacle at the entrance to the groove.

2,287,611
SHELF
George C. Harbison, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application July 25, 1940, Serial No. 347,456
6 Claims. (Cl. 211—150)



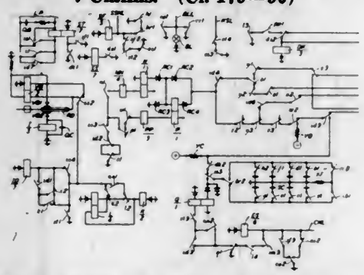
1. In combination, a shelf for use in the food storage compartment of a refrigerator cabinet, said shelf having two different surfaces either of which may be used as an article supporting surface, shelf supporting means including a bracket on said wall and a pair of vertically spaced-apart supporting portions extending longitudinally of said shelf along a marginal edge thereof, said portions serving to selectively position the shelf in one of two vertically spaced-apart positions by inversion thereof. said means being arranged and constructed for engaging and retaining one of said supporting portions in order to permit the selective pivotal movement of said shelf between a substantially horizontal and a substantially vertical position thereof, and also being constructed and arranged to slidably engage said shelf.

2,287,612
ILLUMINATING DEVICE FOR AIRPLANE LANDING FIELDS
George F. Hardin, McKenzie, Tenn.
Application March 13, 1940, Serial No. 323,802
1 Claim. (Cl. 177—352)



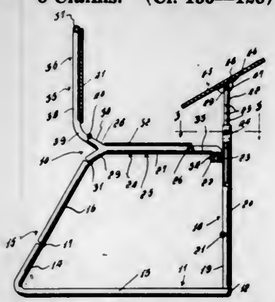
An illuminating device for airplane landing fields, comprising a tower, a lamp support mounted for a horizontal rotary movement at the upper end of the tower, a weather vane on the support moved by the action of wind pressure against the vane rotating said support, a lamp at the front end of the lamp support adapted to illuminate the landing field, distinctive signal lamps mounted at the rear end of the lamp support, electric circuits for the lamps, and means to close the circuit to one of said signal lamps and the lamp at the front end of the support in one position of the support, and means responsive to rotation of the support to open said circuit and close the circuit to the other signal lamp.

2,287,613
KEY PULSING SENDER FOR TELEPHONE SYSTEMS
George C. Hartley and Glyn D. H. Griffith, London, England, assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application April 17, 1940, Serial No. 330,158
In Great Britain May 2, 1939
7 Claims. (Cl. 179—90)



1. In a telephone system, control equipment comprising a plurality of registering devices, means for setting up registrations on certain of said registering devices, an impulse transmitter, means for placing said impulse transmitter under the control of said registering devices in turn, testing means, and means operated in response to the completed control of said impulse transmitter by each of said registers to render said testing means effective to determine whether a registration exists on the next registering device.

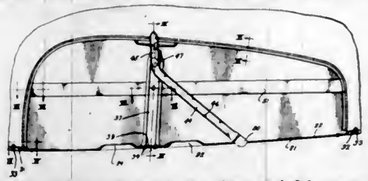
2,287,614
PORTABLE FOLDING CHAIR
Homer W. Hawkins, Sweetwater, Tex.
Application June 12, 1941, Serial No. 397,801
8 Claims. (Cl. 155—128)



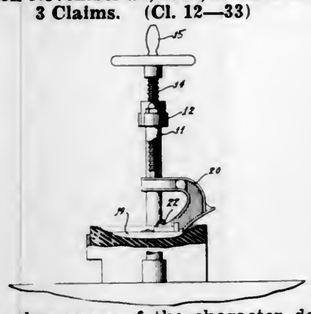
5. A folding chair comprising a pair of rear legs formed of hingedly connected sections, a base portion connected to the lower ends of said legs, a front leg rising from the forward part of the base portion and formed of hingedly connected sections, a seat hingedly connected at its rear end to the upper ends of said rear legs, and means for detachably connecting said seat to the front leg for maintaining the parts in extended positions.

2,287,615
FENDER SHIELD AND MOUNTING
Herbert S. Jandus, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application July 15, 1940, Serial No. 345,477
7 Claims. (Cl. 280—153)

1. As an article of manufacture, a fender shield for disposition on a vehicle fender over the wheel opening thereof, a resilient stiffening member mounted on and extending over the rear face of said shield and secured thereto at its outer end, the peripheral edge of said fender shield and said resilient stiffening member being shaped so that in an unstressed position the peripheral edge of said fender shield cannot be seated on said fender, and means on said shield engageable with said fender for warping said shield and said stiffening member, whereby said shield is held in tight engagement with said fender throughout substantially its entire peripheral edge.



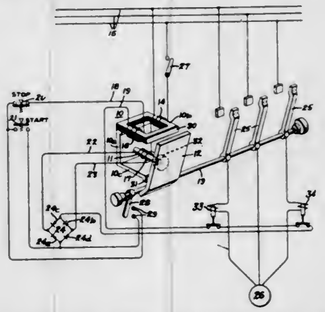
2,287,616
SHOE PRESS WITH INTERCHANGEABLE LAST PLATE
Leonard Ippolito, Jersey City, N. J.
Application November 26, 1941, Serial No. 420,483
3 Claims. (Cl. 12—33)



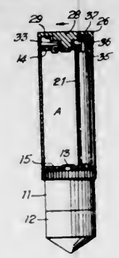
1. In a shoe press of the character described the combination of a base, said base having two sole-shaped recesses; a pair of thick, rubber pads fitted into said recesses; a plurality of spacer members adapted for insertion in said base and said rubber pads; a pair of pillars fastened in said base; a yoke supported by said pillars; a pair of press screws located centrally over each of said recesses in said base and rotatable in said yoke; a hand wheel adaptable for use with either of said screws; a last member having a U shaped body adaptable for insertion between said screws and said base, said last member having a nose-shaped lower extremity and flange-like ribs on either side of same; and an interchangeable sole plate having a recess fitting over said flange-like ribs and a spring catch fitting over said nose-shaped lower extremity of said last member.

2,287,617
MOTOR STARTER
Benjamin W. Jones, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 3, 1940, Serial No. 343,791
4 Claims. (Cl. 175—294)

1. A time delay undervoltage release motor starter comprising a magnetic core structure having a floor member and two side walls, one of said side walls being composed of laminations and provided with a primary winding and a secondary winding, means for connecting said primary winding to a source of supply, a core piece secured to said floor member between said side walls, a D. C. operating coil mounted on said core piece, electrical connections between said secondary winding and said D. C. coil, a rectifier included in said connections for supplying direct current to said operating coil thereby to provide quiet operation, a switching device included in said connections, an armature member pivotally mounted near the free edge of one of said walls and arranged to bridge the space between the free edges of said walls when attracted to its picked up position in response to energization of said operating coil and contacts actuated by movement of said armature for connecting a motor to a source of supply.

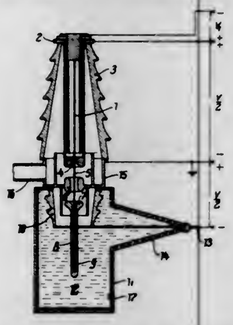


2,287,618
TOILET ACCESSORY
Henry Josephs, New York, N. Y.
Application June 23, 1941, Serial No. 399,325
4 Claims. (Cl. 242—55.5)



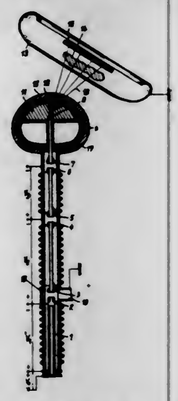
1. A toilet accessory adapted to be carried on the person comprising a body portion for a roll of tissue, said body portion constituting an elongated substantially symmetrical casing concentric to a longitudinal axis and said body portion having an opening at its side substantially the size of the tissue roll for insertion of the roll sidewise therethrough, a friction roller eccentric to and lengthwise of said body portion, exterior means concentric with respect to said body portion for rotating said friction roller, and a closure for said opening of the body portion, said closure being movable in closing the same toward said friction roller into close proximity thereto by which in closing the same said closure grips the out-going portion of the tissue between the closure and said friction roller, whereby the tissue is situated to be fed and rotation of the roller feeds the tissue along the closure surface.

2,287,619
DEVICE FOR THE PRODUCTION OF SLOW NEUTRONS
Hartmut Israel Kallmann, Berlin-Charlottenburg, and Ernst Kuhn, Berlin, Germany
Application June 8, 1940, Serial No. 339,560
In Germany June 9, 1939
12 Claims. (Cl. 250—84)



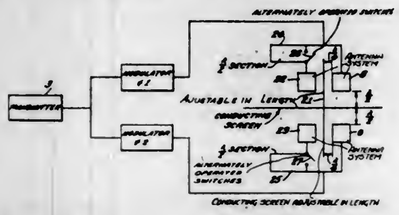
1. A device for generating slow neutrons, comprising a body of insulating material which is capable of slowing down quick neutrons; a grounded conductive casing surrounding the body of insulating material; an artificial source of quick neutrons within and substantially surrounded by the body of insulating material; means for maintaining the source of quick neutrons at a high potential with respect to ground; means for exciting the source of quick neutrons; and a rigid insulator within the conductive casing and interposed between the latter and the source of quick neutrons, said rigid insulator being surrounded by the body of insulating material.

2,287,620
DEVICE FOR IRRADIATING OBJECTS WITH NEUTRONS, ESPECIALLY FOR DEPICTING THEM BY MEANS OF NEUTRON-RADIATION
Hartmut Israel Kallmann, Berlin-Charlottenburg, and Ernst Kuhn, Berlin, Germany
Application June 8, 1940, Serial No. 339,561
In Germany June 9, 1939
8 Claims. (Cl. 250—51)



1. A device for irradiating an object with neutrons, comprising a source of neutrons, means for exciting the neutron source, means for maintaining the neutron source at a high potential relative to earth, a discharge shield substantially enclosing the neutron source, and a second discharge shield adapted to house an object to be irradiated, said second discharge shield being arranged opposite to the first named discharge shield.

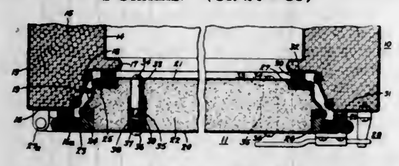
2,287,621
TWO COURSE LOCALIZER
Armig G. Kandoian, New York, N. Y., assignor to International Telephone & Radio Manufacturing Corporation, a corporation of Delaware
Application January 3, 1940, Serial No. 312,199
9 Claims. (Cl. 250—11)



1. An arrangement for eliminating reflection interference in multiple antenna systems, comprising a source of radio frequency energy, a first uni-directional antenna system radiating in one direction, and a second uni-directional antenna system radiating in substantially the opposite direction connected to said source, and means for cyclically shifting the phase of the energy supplied to one of said antenna systems with respect to the other system.

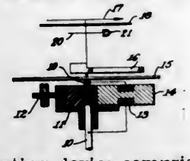
3. An antenna system, comprising a first pair of radiating antennas, a conducting screen between said antennas for regulating the radiation therefrom, a second pair of radiating antennas, a conducting screen between said second antennas for regulating the radiation therefrom, and a conducting screen substantially at right angles to said screens between said first and second pairs of antennas for directing the radiation of each pair.

2,287,622
REFIGERATOR CABINET
Ralph E. King, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application August 27, 1940, Serial No. 354,397
4 Claims. (Cl. 20—35)



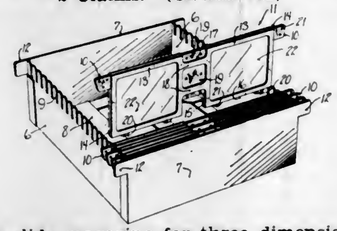
1. In a thermally insulated refrigerator cabinet having a door opening, a door for closing said opening, means for maintaining said door in the closed position thereof, said door comprising an inner portion and an outer portion, sealing means carried by each of said portions for sealing the space between said door and the walls of said cabinet, a breaker strip of thermally resistant and flexible material closing the opening between said portions, and means extending between said door portions and constructed and arranged for urging apart said portions.

2,287,623
DIRECTION FINDING APPARATUS
Norman E. Klein, Chicago, Ill., assignor, by mesne assignments, to International Telephone & Radio Manufacturing Corporation, a corporation of Delaware
Application October 25, 1939, Serial No. 301,098
3 Claims. (Cl. 250—11)



1. An indicating device comprising an electromagnet rotatable about an axis adjacent one end thereof, means for producing cyclical current variations in said electromagnet, means for rotating said electromagnet in timed relation with said current variations, a disc of electrical conductive material which has the characteristic of producing localized magnetic poles whose orientation is determined by the periodicity of said current variations and the rate of rotation of said electromagnet, said disc being mounted substantially perpendicular to the axis of rotation of said electromagnet, and a rotatable indicating magnet positionally responsive to the orientation of said localized poles in said disc and mounted so that said disc is between said electromagnet and said indicating magnet.

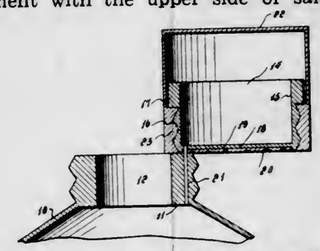
2,287,624
SLIDE HOLDER AND MAGAZINE
Adolph L. Langenfeld, New Holstein, Wis.
Application October 10, 1940, Serial No. 360,620
2 Claims. (Cl. 211—41)



1. A slide magazine for three dimension projectors comprising: an open topped receptacle having two spaced parallel walls; a plurality of substantially rectangular slide holders each having two slides mounted therein in definite fixed relative positions; projections extending sidewise outwardly from the upper corners of each slide holder; and means on the said two walls of the receptacle engaging the undersides of the projections and cooperating with the sides of the projections to support the slide holders in the receptacle in positively spaced parallel relationship and against swinging motion about said points of contact between the projections and said means, the projections extending beyond said walls of the receptacle to the exterior thereof so as to be accessible to slide lifting mechanism.

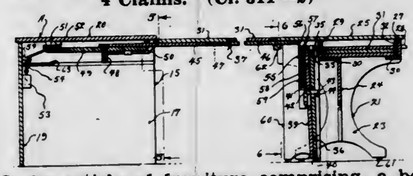
2,287,625
NONREMOVABLE CONTAINER CLOSURE
Eugene J. Leach, Whitefish, Mont.
Application June 19, 1941, Serial No. 398,823
1 Claim. (Cl. 221—60)

A non-removable cap for containers having externally threaded necks comprising an upper externally threaded neck section, said upper neck section being cup-shaped and the thread thereof corresponding in diameter and pitch to the thread of the container neck, a pin extending through and turnably mounted in the bottom of the upper neck section, the lower end of the pin being anchored in the container neck for swingably connecting said upper neck section to the container neck so that the upper neck section will swing in a plane substantially at a right angle to the axis of the container neck, said pin having a head at its upper end in engagement with the upper side of said bottom



to hold the bottom in engagement with the free end of the container neck, a cap having an internally threaded outer end for engaging the thread of the upper neck section, and said cap being turnable, when the upper neck section is alined with the container neck for advancing its threaded portion onto the thread of the container neck for holding the upper neck section in alinement with the container neck, and said cap, when retracted, being out of engagement with the container neck and supported solely by the upper neck section to swing therewith for exposing the bore of the container neck.

2,287,626
COMBINATION DESK AND DINING TABLE
Albert J. Luebke, Jr., Milwaukee, Wis.
Application April 1, 1940, Serial No. 327,237
4 Claims. (Cl. 311—2)

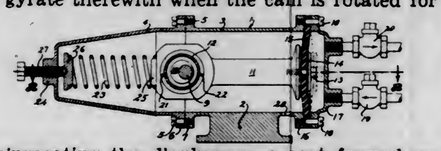


2. An article of furniture comprising, a body portion simulating a kneehole desk, a serving table section slidable within the kneehole portion of the desk and having a part thereof forming a portion of the front of the body of the desk, said serving table section being movable entirely out of the body for use independent thereof, a plurality of removable table top leaves carried by the serving table section, and a collapsible bridge structure carried by the body and normally housed within the kneehole portion of the body and adapted to be detachably connected to the table section and suspended between the body portion and table section in a horizontal plane when the table section is spaced from the body portion, whereby to provide a horizontal support for the table leaves.

2,287,627
DIAPHRAGM PUMP
Job F. Malsbary and Walter W. Taylor, Oakland, Calif.
Application January 23, 1940, Serial No. 315,180
5 Claims. (Cl. 103—150)

1. In a diaphragm pump, a housing having a

diaphragm supported in one end thereof, a rotary shaft transversely supported in an intermediate section of a housing and having a cam thereon, an abutment in the other end of the housing, a connecting rod having one end connected to the diaphragm and having an annular bearing on the other end fitted over the cam to gyrate therewith when the cam is rotated for

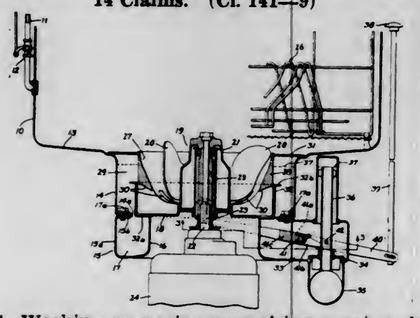


reciprocating the diaphragm, a seat formed on the extreme bearing end of the connecting rod opposite the diaphragm, and a spring having its outer end bearing on the abutment and its inner end bearing on the seat to gyrate with the bearing, the spring serving to equalize pressures on the bearing during compression and suction strokes and the seat having means for holding the spring end against lateral slipping.

2,287,628
WASHING APPARATUS

Kenton D. McMahan, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application October 26, 1939, Serial No. 301,415
14 Claims. (Cl. 141—9)



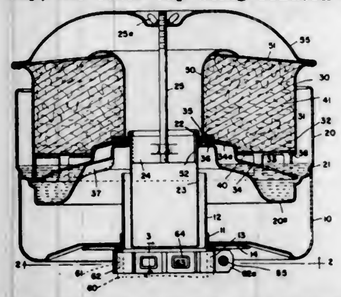
1. Washing apparatus comprising a vat, a device in said vat for continuously circulating a body of cleansing liquid in said vat, a drain port for said vat, a drain valve for said port, a screen, operating means for actuating said drain valve to close and open said port, and means operable responsively to said actuating means operating when said drain valve is closed to cause the liquid to flow to said circulating device through said screen in one direction, and when said drain valve is opened to cause the liquid to flow to said drain port through said screen in the opposite direction.

2,287,629
AIR CLEANER

Merritt A. Mieras, Redford Township, Wayne County, Mich., assignor to Industrial Wire Cloth Products Company, Wayne, Mich., a corporation of Michigan

Application February 23, 1940, Serial No. 320,395
2 Claims. (Cl. 183—15)

1. An air cleaner consisting of an annular cup having its bottom wall depressed to provide a sump for containing a body of oil and having an annular shoulder surrounding the central opening, a second annular cup nested within the first and seated upon said shoulder, said second cup being of such diameter as to provide an annular air inlet between the outer walls of the cups, said second cup having its outer wall extending downwardly into said sump and provided with a plurality of air openings and having its bottom wall sloping upwardly toward the center of the cup, the outer cup being reduced in di-

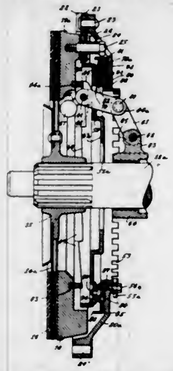


ameter adjacent the juncture of the outer and bottom walls of the inner cup, but spaced therefrom, whereby a restricted annular oil passage is formed connecting the sump with the air inlet, a mass of spongy filamentary material in said second cup and supported above the air inlets and bottom wall thereof, and air outlet means arranged beyond said material from the air inlet.

2,287,630
CLUTCH

Kay Miller, Rockford, Ill., assignor to The Atwood Vacuum Machine Company, Rockford, Ill., a copartnership composed of Seth B. Atwood and James T. Atwood

Application April 12, 1941, Serial No. 388,283
4 Claims. (Cl. 192—68)

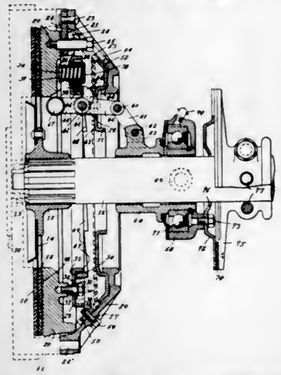


1. In a friction clutch, the combination with a flywheel constituting the driving element, and a clutch disc constituting the driven element, of a back plate for the flywheel, a pressure plate turning with the back plate and movable toward and away from the same in the disengagement and engagement of the clutch, respectively, a ring mounted for rotary adjustment relative to the back plate, circumferentially extending cam means on the pressure plate in concentric relation with said ring, one or more elongated levers extending in the general direction of the axis of rotation of said clutch but radially spaced therefrom, each pivoted intermediate its ends on said ring and having a radially projecting finger on the pivoted portion engaging the circumferentially extending cam means, a counterweight on one end of each of said levers, and means including toggle links pivotally connected with the other end of said levers for oscillating the same to force the pressure plate away from the back plate to engage the clutch, said levers being adjustable with the ring circumferentially with respect to the cam means.

2,287,631
CLUTCH

Kay Miller, Rockford, Ill., assignor to The Atwood Vacuum Machine Company, Rockford, Ill., a partnership composed of Seth B. Atwood and James T. Atwood

Original application April 12, 1941, Serial No. 388,283. Divided and this application November 24, 1941, Serial No. 420,198
2 Claims. (Cl. 192—68)



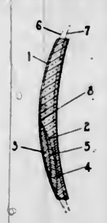
1. In a friction clutch, the combination with a flywheel constituting the driving element, and a clutch disk constituting the driven element, of a back plate for the flywheel, a pressure plate turning with the back plate and movable toward and away from the same in the disengagement and engagement of the clutch, respectively, a ring mounted for rotary adjustment relative to the back plate, circumferentially extending cam means on the pressure plate in concentric relation with said ring, one or more elongated levers extending in the general direction of the axis of rotation of said clutch but radially spaced therefrom, each pivoted intermediate its ends on said ring and having a radially projecting finger on the pivoted portion engaging the circumferentially extending cam means, a counterweight on one end of each of said levers, means including toggle links pivotally connected with the other end of said levers for oscillating the same to force the pressure plate away from the back plate to engage the clutch, said levers being adjustable with the ring circumferentially with respect to the cam means, and spring means held between the cam means and the pressure plate in preloaded condition and arranged to be compressed further by the action of said levers in the engagement of the clutch whereby to exert increased pressure on the pressure plate while the clutch is engaged.

2,287,632
MULTIFOCAL LENS

Harold R. Moulton, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application September 13, 1939, Serial No. 294,721
2 Claims. (Cl. 88—54)

1. A blank for a multifocal lens comprising a major piece of lens medium of a relatively high index of refraction having a countersink curve therein, a minor piece of lens medium of a relatively low index of refraction secured in said countersink, said minor piece of lens medium having a countersink curve therein angularly disposed relative to the major countersink so as to intersect said major countersink adjacent a given contour edge portion thereof, a segment of lens medium of a relatively high index of refraction secured in the countersink in said minor piece of

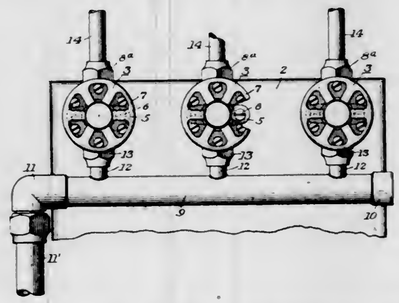


lens medium and a curved optical surface on said segment side of the composite pieces of lens medium formed to such a depth as to cause a portion of the contour edge of said segment and the line of intersection of the countersink curve of said minor piece of lens medium with the countersink curve of the major piece of lens medium to be substantially coincident, the curvature of the countersink in the minor piece of lens medium being of a shorter radius than the curvature of the countersink in the major piece of lens medium.

2,287,633
PIPING SYSTEM AND MANIFOLD CONSTRUCTION

Kenneth M. Newcum, Pittsburgh, Pa., assignor to Superior Valve & Fittings Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application August 16, 1939, Serial No. 290,413
4 Claims. (Cl. 137—78)



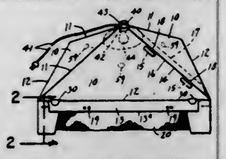
1. A manifold structure comprising in combination a supporting panel having a row of valves mounted thereon, each valve having a body whose main axis is perpendicular to the panel, each body having a foot at the base thereof by means of which it is attached to and supported on the panel, each body also having a connecting nipple projecting therefrom perpendicular to its longitudinal axis, the nipples of the several valve bodies being parallel and in the same plane, and a manifold tube with which the several nipples are connected, said manifold tube being thereby located to one side of the row of valves in the same plane as the nipples which connect to it and being supported in position by the valves.

2,287,634
LOCKING PIN
Archie Macphail Niven, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application May 31, 1941, Serial No. 395,969
1 Claim. (Cl. 85—8.5)



A locking pin for reception in an opening extending at right angles to the axis of a bolt or rod comprising a straight body portion adapted to be inserted in the opening, a head portion being return bent inwardly and in a plane substantially at right angles to the axis of the bolt or rod, a portion of said head being bent out of the plane in one direction, and a portion at the free end of said straight body portion being bent in an opposite direction to the plane of said head but being capable of being forced through the opening in the bolt or rod.

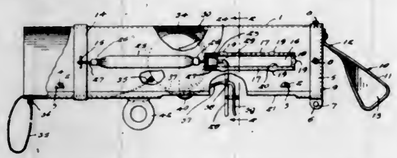
2,287,635
BROODER CONSTRUCTION
Wilfred C. Nolte, Indianapolis, Ind., assignor to Anderson Box Company, Indianapolis, Ind., a corporation
Application May 9, 1941, Serial No. 392,738
8 Claims. (Cl. 119—33)



1. A brooder structure including a polygonally outlined body portion, lower side edges being substantially coplanar when arranged in brooder top formation, an independent depending flap on each side edge, adjacent ends of adjacent flaps forming a vertical corner, and a corner leg at each corner including two portions positioned angularly of each other and at approximately the interior angle between the corner forming flaps, each leg portion including a slot extending downwardly from the top edge and of a depth at least equal to the depth of the adjacent flap, and a tongue extending upwardly from the top edge of each portion and extending through the body portion adjacent flap connection thereto and then extending angularly thereof for locking purposes, each corner leg securing adjacent flaps in angular relation and spacing the lower edges thereof from the leg supporting surface.

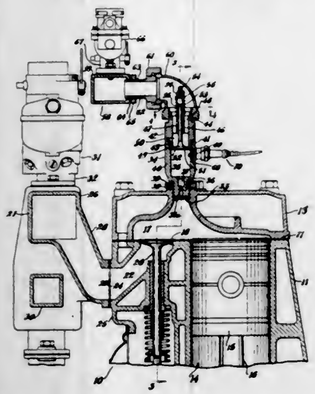
2,287,636
BALL GUN
Richard Bruster Hayter, Kansas City, Mo., assignor of one-third to Randolph Barnum, and one-third to John Seals, both of Kansas City, Mo.
Application June 27, 1939, Serial No. 281,486
4 Claims. (Cl. 124—21)

1. A ball gun, comprising a tube open at one end, a pair of slots formed longitudinally of the tube in opposite sides thereof, said slots being adjacent the other end of the tube, a trigger slot formed in the tube between said oppositely positioned slots, a bar extending transversely within the tube and having end portions extending through said opposite slots, elongated stretchable members secured to the tube upon the outside thereof and to the extended ends of said bar, said members normally urging the bar to move forwardly in the slots, a handle carried by the bar and extending downwardly through



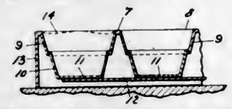
the last-mentioned slot, means carried by the bar for receiving and supporting a ball at the forward side of the bar, a trigger pivoted on said handle and extending forwardly from the pivot to the front of said means and upwardly to retain a ball in said means, and a weight carried by the trigger adjacent its forward end and effecting oscillation of the trigger for release of the ball when the trigger is released.

2,287,637
INTERNAL COMBUSTION ENGINE
Otto I. Oyler, Canton, Ohio
Application February 24, 1941, Serial No. 380,108
6 Claims. (Cl. 123—75)



1. In an internal combustion engine, engine walls including a cylinder having a bore and a cylinder head extending over one end of the cylinder bore, a piston operating in the cylinder bore, the cylinder and cylinder head walls and the piston forming therebetween a main combustion and cylinder chamber, one of the engine walls having formed therein an opening, and an auxiliary combustion chamber unit separably connected with the main combustion and cylinder chamber wall having the opening formed therein, the auxiliary combustion chamber unit including walls forming an auxiliary combustion chamber and one of the auxiliary combustion chamber walls extending over the opening in the engine wall and having formed therein a restricted control orifice communicating through the opening between the auxiliary combustion chamber and the main combustion and cylinder chamber, and the auxiliary combustion chamber unit including intake valve means opposite the restricted orifice.

2,287,638
BAKING PAN
William E. Pereira and Walter J. Hunter, Cincinnati, Ohio
Application December 26, 1940, Serial No. 371,642
4 Claims. (Cl. 53—6)

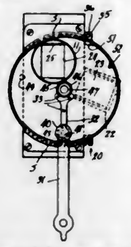


1. In a baking pan unit the combination of a plate having a plurality of openings formed therein, a number of telescoping members forming an open-topped receptacle, means for fastening the uppermost member of each receptacle to the plate subjacent an opening, a strap fastened to the bottoms of the receptacles, and support means on the plate for freely suspending the receptacles beneath said plate.

2,287,639
LUBRICANT COMPOSITION COMPRISING ORGANIC SULPHONAMIDES
Wilbur Bennett Pings, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 27, 1939, Serial No. 270,423
18 Claims. (Cl. 252—48)

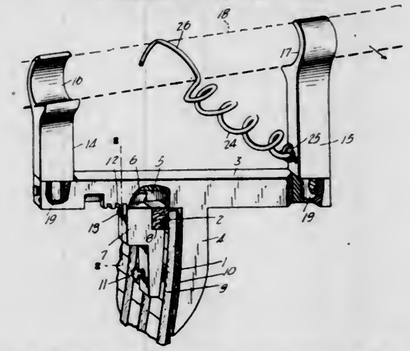
1. A lubricant composition comprising an aqueous carrying medium containing from 10% to 80% of a sulphonamide having an organic radical attached to the sulphur atoms.

2,287,640
SHIFTABLE FILM-HOLDER FOR CAMERAS
Alexander Raynes, New York, N. Y.
Application November 2, 1940, Serial No. 364,017
5 Claims. (Cl. 95—49)



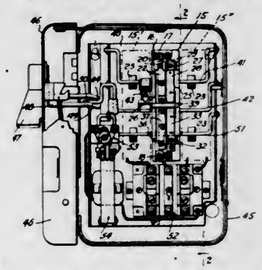
1. In a photographic camera, a plate having an opening therein, a lens receiving tube on the plate in registry with the said opening, a holder for receiving photographic film rotatably mounted on the said plate, the said plate having a film exposing opening, a ground glass carried by the said film holder, the film exposing opening and ground glass being spaced apart so that when one of them is brought into registry with the opening in the plate by the rotation of the film holder the other will be out of registry with the said opening, means for automatically returning the film holder from the position where the ground glass is in registry with the opening in the plate to the position where the film exposing opening in the film holder is in registry with the said opening, the said means comprising a bored hub on the plate, the said plate having a pin receiving hole, a shaft on the film holder extending into the said hub, a coiled spring about the said shaft adapted to be tensioned when the film holder is rotated to bring the ground glass into registry with the opening in the plate, a post, an arm pivotally mounted at one end on the post, a pin carried by the arm at the opposite end, a spring for pressing the said pin into the pin receiving hole, the film holder having a pin receiving hole in angularly spaced relation to the pin receiving hole in the plate and adapted to receive the pin when the film holder is rotated to bring the ground glass into registry with the plate opening, and means whereby the arm may be pressed to bring the pin out of the hole in the film holder to permit the spring in the hub to rotate the holder to bring the film exposing hole therein into registry with the opening in the plate.

2,287,641
FISHING ROD SUPPORT
Joseph O'Neil Arnold Russell, Toronto, Ontario, Canada
Application January 13, 1941, Serial No. 374,293
In Canada September 4, 1940
2 Claims. (Cl. 248—42)



2. A fishing rod support comprising a bar extending at right angles to the boat, means for clamping the bar to the sides of the boat, a supporting standard at each end of the bar having jaws for holding the rod, the openings of which are set in opposite directions so that when that portion of the rod extending between the standards is grasped by the hand of the user and turned horizontally on a pivot formed by the user's wrist both jaws are disengaged simultaneously.

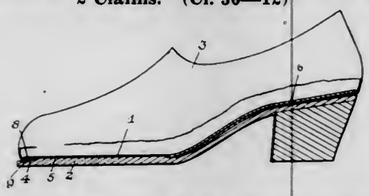
2,287,642
ELECTRIC SWITCH
Raymond N. Rowe, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a corporation of Connecticut
Application March 1, 1941, Serial No. 381,223
10 Claims. (Cl. 200—114)



1. A switch unit including a base portion hav-

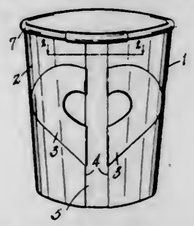
ing a flat front supporting surface and another flat supporting surface formed rearwardly and laterally of the front supporting surface, said rear supporting surface being formed with at least one opening extending to the rear of the base, a switch terminal at each end of the base, two contacts on the rear supporting surface on opposite sides of the opening, a switch carrier extending through said opening, means for actuating the carrier from behind the base, a switch piece on said carrier, means removably securing the switch piece to the carrier, said means and said switch piece being accessible entirely from the front of the base, said contacts, carrier and switch piece being disposed rearwardly of the front supporting surface in all positions of the switch, a pair of spaced fuse terminal pieces mounted flat on the front supporting surface, a fuse holder on each fuse terminal piece, a strap connection between at least one of said terminal pieces and one of said contacts, means of connection between the other contact and one of said switch terminals and means of connection between the other fuse terminal piece and the other switch terminal.

2,287,643
SHOE
Anthony Ruggiero, Rochester, N. Y.
Application March 26, 1935, Serial No. 13,062
2 Claims. (Cl. 36—12)



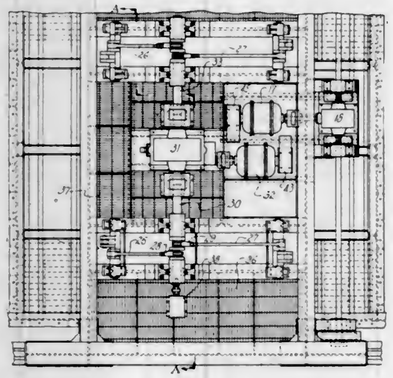
1. In a shoe, an insole having heel, shank and marginal forepart portions of insole thickness and having an integral relatively thin membrane at its central forepart area, and an outsole having a complementary raised land at its central forepart area fitted against and supporting said membrane.

2,287,644
HANDLED CUP
Henry Schacht, Kalamazoo, Mich., assignor to Sutherland Paper Company, Kalamazoo, Mich.
Application December 11, 1939, Serial No. 308,686
11 Claims. (Cl. 229—4.5)



1. A handled cup of fibrous material throughout, comprising a body member formed from a blank disposed in tubular form with the ends of the blank spaced substantially from one another, said blank having handle members formed integrally on said ends and normally disposed in concentric relation to the body member, and a supplemental strip bridging the space between said ends, said strip being of a substantially heavier grade of stock than said blank and having the sides thereof skived and adhesively secured to said spaced ends whereby to complete the circular outline of the cup, said skived portions minimizing the thickness of the wall of the cup at the points of securement thereof to the blank, said handle members being capable of being erected from said concentric position to an outwardly converging relation to one another to thereby provide a stable handle for the cup.

2,287,645
COVER OPERATING MECHANISM FOR SOAKING PIT FURNACES
Howard F. Spencer, Pittsburgh, Pa., assignor to Amco, Incorporated, Pittsburgh, Pa., a corporation of Pennsylvania
Original application December 17, 1937, Serial No. 180,337. Divided and this application April 21, 1938, Serial No. 203,337
3 Claims. (Cl. 268—10)

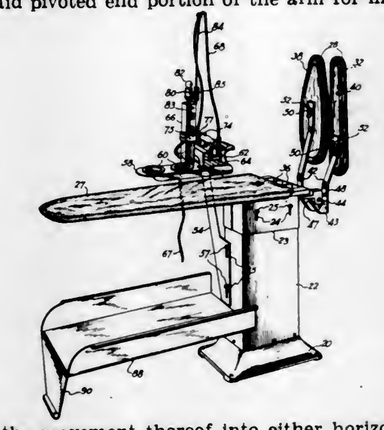


1. A cover operating mechanism comprising a carriage, a cover suspended from said carriage, means for actuating the cover suspension to raise and lower the cover, said means comprising a plurality of bell crank levers having one arm linked to the cover, a drive shaft having oppositely disposed cranks connected by rods to the other arm of said levers, the angular disposition of the cranks and levers being such as to lock the cover actuating levers in both the lowered and retracted positions of the cover.

2,287,646
IRONING APPARATUS
James W. Steele, North Kansas City, Mo.
Application December 10, 1938, Serial No. 244,972
1 Claim. (Cl. 38—134)

Ironing apparatus comprising a support for a main ironing board, a horizontal transverse pivot rod adjacent to the top of said support, an auxiliary ironing board provided with an arm composed of parallel end portions and an intermediate diagonal portion connecting said end portions, one of said end portions being provided with a counterweight portion pivotally mounted on said rod and the other end portion of said arm being secured to the under face of said auxiliary ironing board whereby the latter may be swung into horizontal and spaced parallel relation to the upper face of the main board, said counterweight portion of the arm being pivoted in eccentric relation to said rod for holding the arm normally

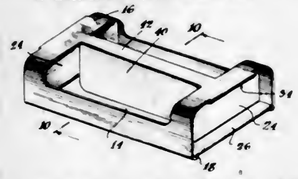
in upright inoperative position, and stop means at said pivoted end portion of the arm for limiting the movement thereof into either horizontal operative position or upright inoperative position.



2,287,647
MANUFACTURE OF INTERMEDIATES FOR DYESTUFFS
Harvey Irvin Stryker, Carneys Point, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 22, 1941, Serial No. 394,653
5 Claims. (Cl. 260—570)

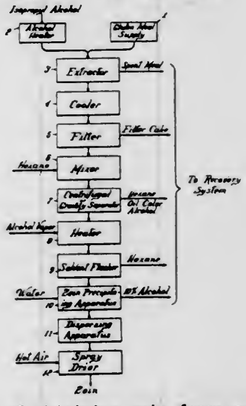
1. In the manufacture of a diamino-diarylketone by reacting a compound selected from the group consisting of the dialkyl anilines and the monoalkyl-ortho toluidines with phosgene followed by separation of the by-product hydrochloride of the substituted arylamine, the improvement which consists of washing the crude diamino-diaryl-ketone with dilute aqueous phosphoric acid.

2,287,648
COLLAPSIBLE CARTON
Frederick A. Sunderhauf, Rutherford, N. J., and Frank W. Broderick, New Brighton, N. Y., assignors to Reynolds Metals Company, Richmond, Va., a corporation of Delaware
Application October 6, 1939, Serial No. 298,170
4 Claims. (Cl. 206—44)



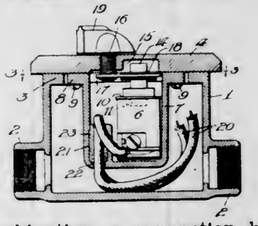
1. A flat, collapsible carton produced by a one-piece die-cut and die-scored blank, which includes a bottom member, a one-piece top member forming the top and sides of the carton, end members positioned inside of the outer limits of the said top and bottom members, bridging and stiffening panels connecting the top and bottom members to the end members, locking means to lock the carton in assembled position, and further panels hinged to said top member and adapted to be folded downwardly and inwardly into engagement with said bottom member to strengthen said carton against outside pressure when in assembled condition.

2,287,649
PROCESS FOR THE PRODUCTION OF ZEIN
Lloyd C. Swallen, Pekin, Ill., assignor to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey
Application November 14, 1938, Serial No. 240,307
7 Claims. (Cl. 260—123)



6. Process of obtaining zein from corn gluten which comprises: extracting the zein with aqueous isopropyl alcohol of a concentration and at a temperature which also extracts oil and coloring matter; mixing with the zein solution a petroleum hydrocarbon solvent having a boiling point substantially within the range of 122°–212° F. and separating the petroleum hydrocarbon solvent, oil and coloring matter from the alcohol zein solution.

2,287,650
EXPLOSIONPROOF SWITCH DEVICE
Nils A. Tornblom, Chicago, Ill., assignor to Appleton Electric Company, a corporation of Illinois
Application May 31, 1940, Serial No. 338,068
3 Claims. (Cl. 200—168)



1. In combination, a connection box having a one-piece detachable cover, a solid-walled open-top container for a switch underlying and having the top thereof closed by the cover, means concealed by the cover when the latter is on the box for securing the container to the cover, both the box and the container having wide endless bearing faces engaging with the under side of the cover, the width of said bearing faces being so great that any flame which may enter between the same from within the container will be extinguished before reaching the space in the box surrounding the container, a switch in the container, an actuator for the

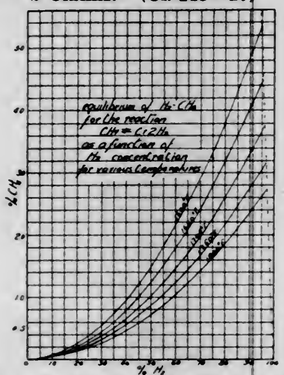
switch extending through the cover, and conductors extending from the switch through and sealed in a wall of the container.

2,287,651

METHOD OF CARBURIZING WITHOUT DETERIORATION OF FURNACE ALLOYS

John J. Turin, Toledo, Ohio, assignor to General Properties Company, Inc., a corporation of Delaware

Application September 5, 1941, Serial No. 409,716
2 Claims. (Cl. 148—17)



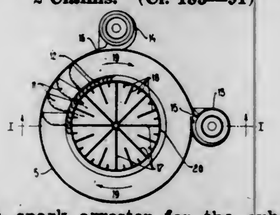
1. The method of carburizing steel articles which comprises enveloping the articles at carburizing temperature in an atmosphere whose dewpoint is not in excess of 20° F. and which contains hydrogen and carbon monoxide and which contains less carbon dioxide than that necessary to be in equilibrium with the carbon monoxide at the said temperature and which contains from one to ten times the amount of methane required to be in equilibrium with the hydrogen at the said temperature, the remainder of the atmosphere consisting of nitrogen and constituting at least forty per cent by volume of said atmosphere.

2,287,652

SPARK ARRESTER

Hermannus van Tongeren, Heemstede, Netherlands

Application November 26, 1940, Serial No. 367,295
In Germany November 24, 1939
2 Claims. (Cl. 183—91)



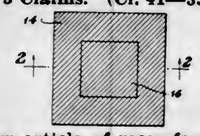
1. In a spark arrester for the exhaust flues of Diesel engines, a cylindrical casing having frusto-conical top and bottom walls provided with coaxial inlet and outlet openings of equal diameter, a cyclone outside of the casing and having its inlet connected with the side of the casing, an annular series of whirl producing vanes carried by the said frusto-conical bottom wall of the casing, a substantially bi-conical deflector member supported on said vanes coaxially of the casing inwardly of said inlet opening, and gas outlet means communicating with said outlet opening of the casing, said means comprising a substantially circular vaned outer wall extending from the peripheral portion of the bi-conical member to said outlet opening, a perforated wall within the vaned wall and permitting the passage of gas from the vaned wall to said outlet opening, and a series of radially and vertically disposed baffle walls within the perforated wall and extending from the top of the bi-conical member to the mouth of the outlet opening.

2,287,653

FLOOR COVERING TILE

Bernard J. Walker, Islington, Mass., assignor to Bird & Son, Inc., East Walpole, Mass., a corporation of Massachusetts

Application December 6, 1940, Serial No. 368,775
3 Claims. (Cl. 41—35)



1. As a new article of manufacture, a tile for use as an element of floor covering and adapted to be handled and shipped as a unit comprising hard surfaced, flexible covering material such as linoleum and the like having a border portion and a removable central portion within said border portion symmetrical about its vertical and horizontal axes cut from and completely severed therefrom, said removable portion held against displacement from within said border portion solely by frictional engagement of its marginal edges with the adjacent cut edges of said border portion whereby said removable portion may be readily removed, reoriented, replaced and frictionally held in position while said tile is being laid as an element of floor covering.

2,287,654

COPPER PLATING

Christian J. Wernlund, North Tonawanda, and Harry Lloyd Benner and Robert Richard Bair, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 4, 1938, Serial No. 206,002
15 Claims. (Cl. 204—52).

1. The process which comprises electroplating copper from a solution containing the double cyanide of copper and an alkali metal, at least 1 oz. per gallon of an alkali metal hydroxide, 1 to 8 oz. per gallon of an alkali metal sulfocyanide and a small amount of a soluble carbohydrate.

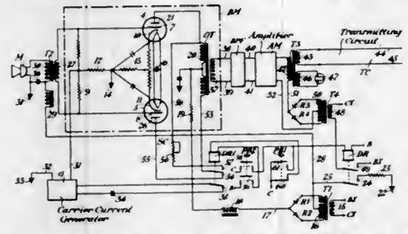
2,287,655

TRANSMITTING APPARATUS FOR COMMUNICATION SYSTEMS

Leland D. Whitelock, Wilkinsburg, and Ralph K. Crooks, Sharpsburg, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application April 22, 1941, Serial No. 389,762
10 Claims. (Cl. 179—1)

1. In transmitting apparatus for a communication system the combination comprising, a generator operable to deliver a carrier current, a microphone, a balanced modulator including two electron tubes whose input circuits are coupled to said generator and to said microphone to effect a carrier telephone current in the output circuits of the tubes, control means operable to a first and a second position, means including the first position of said control means to adjust said generator to deliver a carrier current of a preselected frequency suitable for said telephone current, means including the second position of said control means to open the output circuit of a selected



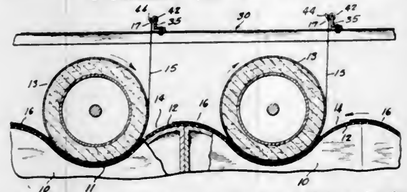
one of said tubes and to adjust said generator to deliver a carrier current of a frequency equal to said preselected frequency varied by a preselected voice frequency for creating a signaling current in the output circuit of the other tube, and a transmitting circuit coupled to said output circuits for transmission of either the telephone current or of the signaling current.

2,287,656

IRONING MACHINE STRIPPER

Joseph Wilkinson, Bridgeport, Conn., assignor, by mesne assignments, to Pullclean Towel Cabinet Co., Inc., New York, N. Y., a corporation of New York

Application July 31, 1940, Serial No. 348,636
8 Claims. (Cl. 38—67)



7. A stripper for an ironing machine including a steam chest and a roll mounted above the chest to cooperate therewith, comprising a flat flexible strip to extend between the roll and chest, means on one end of the strip to suspend the stripper from a support comprising a grommet including a washer having an opening therethrough, the end of the strip passing through said opening and wrapped around the washer, an eyelet comprising two members, one member forming a flange with a central opening on one side of the washer and the other including a flange on the other side of the washer and a sleeve portion extending through the washer and the first flange, and said sleeve portion having its free end turned over on the first flange to secure the two members together and the wrapped end of the strip to the washer.

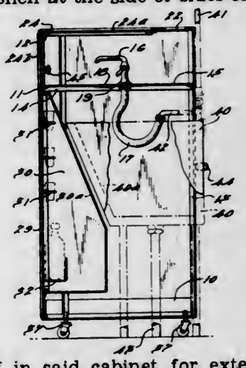
2,287,657

LAUNDRY TUB CABINET

William A. Wisckol, Detroit, Mich., assignor to Douglas & Lomason Co., Detroit, Mich., a corporation of Michigan

Application November 9, 1939, Serial No. 303,543
11 Claims. (Cl. 312—171)

11. A bar cabinet for use with an open-topped laundry tub, said cabinet including front and end walls and being open at the back to extend over said tub, a top panel provided with an opening of less area than the panel to provide a relatively wide top shelf at the side or sides of the open-



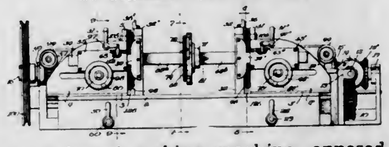
ing, a shelf in said cabinet for extending over the top of the tub, a water faucet mounted on said shelf below the level of the top panel and the opening therein, and means for connecting said faucet with the water outlet of the tub.

2,287,658

BARREL ASSEMBLING MACHINE

William Ralph Anderson, Chicago, Ill.

Application March 24, 1939, Serial No. 263,942
In Canada October 26, 1937
27 Claims. (Cl. 147—1)



1. In a barrel making machine, opposed inwardly facing hoop holders, an expansible member disposed between said holders, and about which member the staves are adapted to be placed, the ends of the staves projecting into hoops carried by said holders, means for expanding said member against the staves, means for moving said holders towards each other in directions lengthwise of said staves to force the hoops carried thereby over the staves to bend the staves on said expansion member as a fulcrum, means for rotating said holders, end hoop holders, and means for moving said end hoop holders towards each other in directions lengthwise of said staves to force the last said hoops over the ends of the staves.

2,287,659

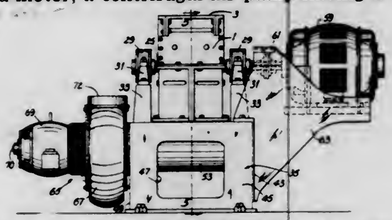
MILL

Charles M. Bindner, Normandy, Mo., assignor to Dixie Machinery Mfg. Co., St. Louis, Mo., a corporation of Missouri

Application October 16, 1940, Serial No. 361,374
2 Claims. (Cl. 83—11)

1. A mill comprising a base forming a longitudinal sump having an endwise outlet, at least one air inlet at its opposite end and an upward opening, said base having integral upward pedestals, grinding means on the base communicating with said upward opening and comprising a separate enclosure between said pedestals and being attached to the base, rotary grinding means in said enclosure and supported by the pedestals and having its axis parallel to the axis of the sump,

a motor having a direct coupling with said rotary means, a bracket attached to and extending with an overhang from the base and carrying said motor, a centrifugal air pump having a central inlet and having an exclusive attachment to the base with said inlet adjacent to the outlet of the sump, and a motor attached coaxially to said centrifugal air pump.

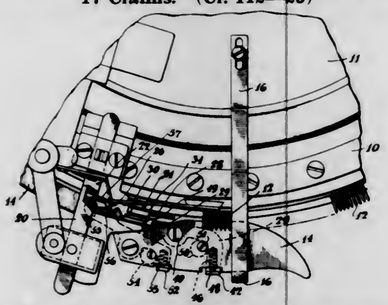


2,287,660

LOOP DRAWING MEANS FOR FABRIC LOOPING MACHINES

Jacob Frederick Binkley, Winston-Salem, N. C.

Application December 17, 1940, Serial No. 370,440
17 Claims. (Cl. 112—25)



1. In a fabric looping machine comprising a frame and a fabric feeding device having a series of fabric supporting points disposed in a plane for movement relative to said frame; the combination of means to draw laterally relative to said points the loops of the fabric supported thereon, which comprises a fabric engaging element disposed adjacent the plane of said points with a surface thereof inclined away from and in the direction of movement of said points, and means presenting a surface extending adjacent to and spaced substantially equidistantly from and and along said inclined surface to urge the threads of the fabric against said inclined surface and cause the overlapping threads of two adjacent courses to be engaged by said inclined surface for movement therealong.

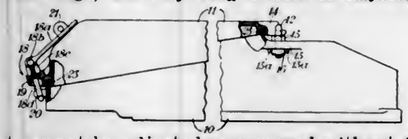
2,287,661

COVER SECURING MEANS FOR CASINGS

Herbert L. Bone, Forest Hills, and Kenneth J. J. McGowan, Pittsburgh, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Original application October 20, 1937, Serial No. 170,060. Divided and this application July 28, 1939, Serial No. 287,116
1 Claim. (Cl. 220—55)

Means for securing one end of a removable cover to a casing comprising lugs provided on the sides of the casing and a U-bolt overlying fingers provided on the cover and secured at its ends to said lugs by means of nuts screwed onto the bolt above the lugs and other nuts screwed onto the bolt below the lugs, the lower nuts being disposed in recesses formed on the undersides of the lugs, whereby said U-bolt is adjustable



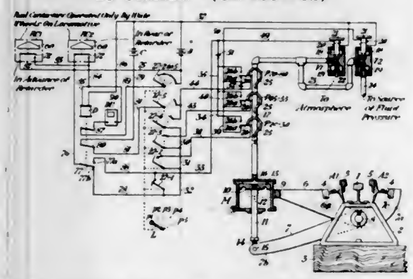
but cannot be adjusted or removed without first removing said cover and then backing off the upper nuts a sufficient amount to permit the lower nuts to clear said recesses.

2,287,662

RAILWAY BRAKING APPARATUS

Herbert L. Bone, Forest Hills, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application July 5, 1941, Serial No. 401,185
15 Claims. (Cl. 188—62)



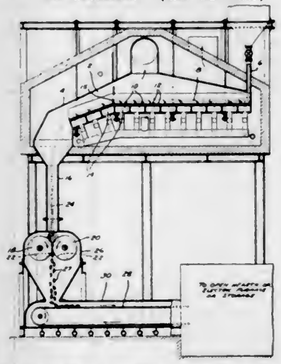
1. In combination, a car retarder, manually operable means for opening and closing said car retarder, and means controlled by the wide wheels of a locomotive for opening said retarder if it is closed when the locomotive approaches it.

2,287,663

METAL PRODUCTION

Herman A. Brassert, Rye, N. Y., assignor to Minerals and Metals Corporation, New York, N. Y., a corporation of Delaware

Application December 7, 1940, Serial No. 369,053
18 Claims. (Cl. 75—22)



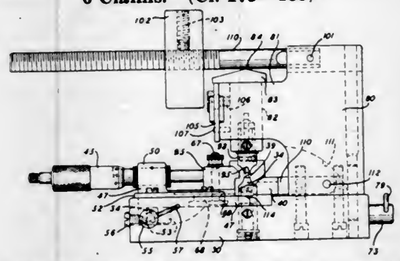
1. The process of producing primary solids of substantially virgin metal, which consists in directly reducing finely divided concentrated ore at temperatures below both the melting and the sintering temperatures of the metal constituent thereof to be recovered and forthwith compressing the metallic powder thus produced into a self-sustaining mass while said powder is still hot from the reducing operation, is still substantially free of any surface contamination and, therefore, of higher than ordinary chemical activity at the surface and is in a protective atmosphere, all as a continuous process carried out at temperatures below both the welding and the fusion temperatures of the metal.

2,287,664

ARTICLE TESTING APPARATUS

Rudolph S. Brescka, Cranford, Edward J. Meagher, Westfield, and Edward C. Rearick, Cranford, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application March 8, 1939, Serial No. 260,492
6 Claims. (Cl. 175—183)



2. An apparatus for testing articles comprising an electrical testing circuit including means to indicate the electrical characteristics of an article for use in an electrical unit when mechanically supported in the manner in which it is to be supported in the unit, contact members included in the circuit movable one relative to the other to so mechanically support the article, a table disposed adjacent the members to assist in locating the article therebetween but positioned free of the article when the article is supported by the contact members, and means to cause the contact members to apply a predetermined pressure to the article.

2,287,665

METHOD OF HALOGENATING CYCLOHEXANE

Edgar C. Britton and Ralph P. Perkins, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

Application March 9, 1938, Serial No. 194,916
2 Claims. (Cl. 260—648)

1. In a method wherein a halogen selected from the class consisting of chlorine and bromine is reacted with liquid cyclohexane to produce a cyclohexyl halide, a polyhalo-cyclohexane and gaseous hydrogen halide, the step of scrubbing the hydrogen halide with the polyhalocyclohexane to extract vaporized cyclohexane therefrom.

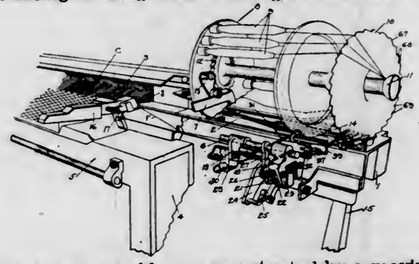
2,287,666

THREAD PARTING MECHANISM

Carl D. Brown, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine

Application February 27, 1941, Serial No. 380,907
11 Claims. (Cl. 139—263)

1. In an automatic filling replenishing loom of the type incidentally forming incoming and outgoing filling ends and having a temple thread cutter, the combination of a magazine assembly adapted to hold a plurality of reserve filling carriers and having a holder to which the ends of the filling on said reserve filling carriers are attached and movable means actuated by a moving part of the magazine assembly for parting each successive incoming filling end adjacent said holder a plurality of picks after formation thereof.

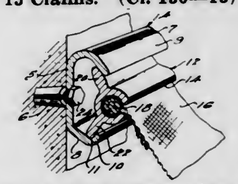


2,287,667

AWNING FASTENER

Winfield B. Brown, Detroit, Mich.

Application December 7, 1940, Serial No. 368,970
15 Claims. (Cl. 156—15)



1. An awning fastener comprising a base member adapted to be affixed to a support, and an awning retaining member demountably interlocked on said base member and retained in assembled relation by gravity, said latter member being demountable from said base member by moving the same in opposition to gravitational forces.

2,287,668

PROCESS OF EQUALIZING THE COLOR IN PINEAPPLES

Bernard J. Butler, Paia, Territory of Hawaii, assignor to Maui Pineapple Company, Ltd., Paia, Territory of Hawaii, a corporation of Hawaii

No Drawing. Application August 19, 1940, Serial No. 353,303
3 Claims. (Cl. 99—100)

2. The process of removing natural white spots from pineapple which comprises heating the pineapple and then subjecting it to a vacuum correlated to the temperature of the fruit to produce flashing of the aqueous content thereof.

2,287,669

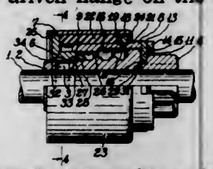
ENGINE STARTER DRIVE

James E. Buxton, Elmira Heights, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

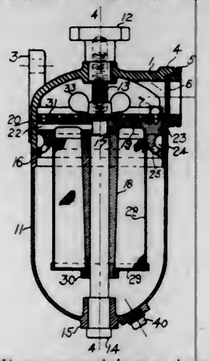
Application February 25, 1941, Serial No. 380,504
8 Claims. (Cl. 74—7)

1. In an engine starter drive, a power shaft, a screw shaft fixed thereon, a pinion slidably journalled on the power shaft, a nut threaded on the screw shaft, a barrel member fixed to the pinion, said screw shaft having an abutment within the barrel, said barrel having an internal

shoulder adapted to engage the abutment to limit the travel of the pinion, said nut having a driving flange, a driven flange on the barrel, a cylinder of elastically deformable material mounted on the barrel between said flanges, and means for limiting the separation of the flanges.



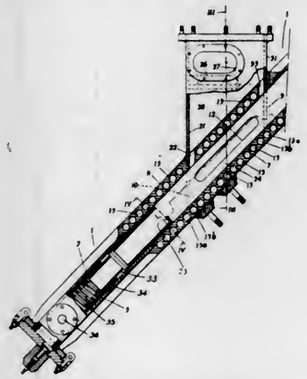
2,287,670
OIL FILTER
Harry A. Dever, Exeter, Nebr.
Application March 18, 1941, Serial No. 384,013
3 Claims. (Cl. 210—165)



1. An oil filter comprising a top portion provided with devices for engaging a support, a bowl portion arranged below the top, an axial bolt rod extending through the said top and bowl and having a threaded upper end, a cap nut engaging the threads of the rod above the top and adapted to secure the top and bowl together in detachable relation, a core portion having a central sleeve body constructed to fit on said bolt rod lengthwise, devices constructed to secure the core on the rod, said core having an annular disk upper portion, said disk having grooves in its upper surface and perforations in the grooves, the said disk being extended downwardly around its edge and said downward portion having an outside encircling groove, oil inlets in communication with the said outside groove, said groove being constructed with openings whereby oil enters the bowl, a cylindrical filter carried by the said core sleeve and engaging the said downwardly extended edge portion of the disk, said disk having an oil cavity arranged to receive oil from within the filter and whereby filtered oil may pass through the disk perforations into the disk grooves, and said top being constructed with oil outlets.

2,287,671
TUBULAR MELTING FURNACE
Percy Dunsheath, Abinger, and Francis Tadman Griffiths, Gravesend, England, assignors to W. T. Henley's Telegraph Works Company Limited, Westcott, Dorking, England, a British company
Application November 25, 1940, Serial No. 367,057
In Great Britain January 25, 1939
5 Claims. (Cl. 13—22)

1. In an electrically heated inclined tubular furnace for the melting of metal ingots, a long melting chamber with a lateral pocket resulting in a central portion of the chamber being of greater width than the end portions, a plurality of cylindrical electric heaters fitted in transversely extending recesses of corresponding form in the bottom wall of said central portion of



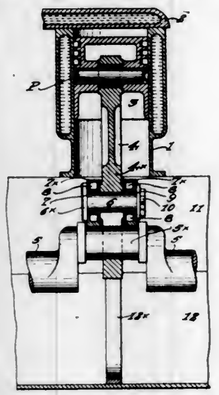
greater width, and means for guiding an ingot fed into the chamber from the upper end, past the lateral pocket in the central portion and means for arresting the downward movement of the ingot and retaining it on the electrically heated bottom wall of said central portion and opposite said lateral pocket.

2,287,672
CONVERSION OF HYDROCARBONS
Frank C. Fahnestock, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application October 4, 1941, Serial No. 413,647
4 Claims. (Cl. 196—52)

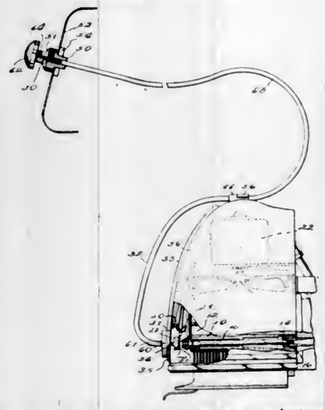
2. In hydrocarbon conversion processes wherein hydrocarbons are converted in the presence of a contact mass and the contact mass is subsequently regenerated and in which the regenerated contact mass is brought to reaction pressure level after regeneration and before reaction by introducing thereto a hydrocarbon repressuring medium, the improvement comprising admixing steam with said hydrocarbon repressuring medium in quantities sufficient to prevent development of localized high temperature zones at points adjacent repressuring medium entry points upon subsequent regenerations.

2,287,673
DRIVING MEANS FOR MOTORS, ENGINES, PUMPS, AND THE LIKE
Michael J. Farrell, Atlantic Highlands, N. J., assignor of one-fourth to Francis J. McKeever, Jersey City, N. J.
Application February 16, 1940, Serial No. 319,218
7 Claims. (Cl. 74—44)

1. The combination in a driving means for internal combustion engines and the like, of a cylinder, a piston, a shaft, a circuit contact ring surrounded by the shaft, means for operatively connecting said ring and the piston, a device for causing the rotation of the shaft, said device being in contact with said ring, and a bearing medium intermediate the shaft and rotation device and eccentric to the rotation device adapted to operatively maintain said contact of the rotation device and ring, in the reciprocation of the piston, said bearing medium being free from connection to the shaft rotation device.

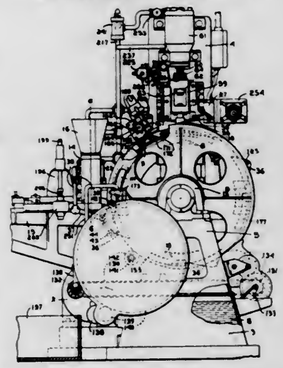


2,287,674
AUTOMOBILE HEATER CONTROL APPARATUS
Gordon J. Fairbanks, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application September 8, 1941, Serial No. 410,032
3 Claims. (Cl. 237—1)



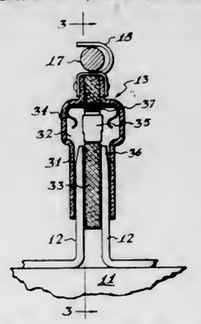
3. In an automobile heater of the internal combustion type having an irregularly shaped casing and a reciprocable valve for controlling its operation, the combination of a flexible cable having one end secured to said valve, said cable being capable of transmitting torque and longitudinally directed forces, a pair of mounting plates conforming to the shape of said casing and secured thereto, a rigid guiding tube having its ends secured to said mounting plates for guiding said flexible cable, a control button positioned remote from said heater, said control button being secured to the other end of said flexible cable, and a flexible tube surrounding and guiding the portion of the flexible cable extending from the heater to the control button, said flexible tube having one end secured to one of said mounting plates and its other end secured to a support adjacent said control button.

2,287,675
MOLDING PRESS
Charles Fair and Charles B. Gary, Portsmouth, Ohio, assignors to Vulcan Corporation
Application July 30, 1938, Serial No. 222,130
12 Claims. (Cl. 18—21)



4. In a press for molding plastic material, a rotatable carrier, a plurality of molds disposed along the periphery of the carrier and movable therewith, a plunger around which the carrier extends, the plunger being movable outwardly from within the carrier to compress material in the molds, means within the carrier for limiting outward movement of the plunger to predetermine the amount of compression in the molds, and means within the carrier rotatable about the plunger as an axis for adjusting said limiting means.

2,287,676
SWITCH
William H. Frank and Lawrence E. Fisher, Detroit, Mich., assignors to Bulldog Electric Products Company, Detroit, Mich., a corporation of West Virginia
Application February 19, 1941, Serial No. 379,602
9 Claims. (Cl. 200—163)



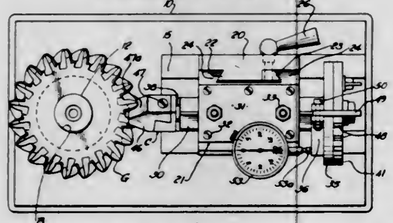
1. A switch having a back from which forwardly projects stationary contact prongs, a movable contact set mounted to move rectilinearly towards and away from said back for engaging or leaving said stationary contacts, the movable contact consisting of two parts, with one part being a flexible strap embracing the stationary contacts, and the other being a contact block fitting between the prongs, and adapted to be engaged and gripped thereby, the block being mounted to have lost motion travel with respect to the strap in the direction of movement of the strap and block, whereby the

strap embraces the prongs to squeeze them together and grip the block only after the block has moved into the space between them, and frees the prongs to release their grip on the block before the block moves out of the space between them the strap being arranged to engage the stationary contacts after and disengage them before the block does.

2,287,677
TESTING INSTRUMENT FOR TOOTHED WHEELS

Fred W. Fraumann and Harry E. Kitchen, Buffalo, N. Y., assignors to Farrel-Birmingham Company, Inc., Buffalo, N. Y.

Application January 14, 1939, Serial No. 250,984
2 Claims. (Cl. 33—174)

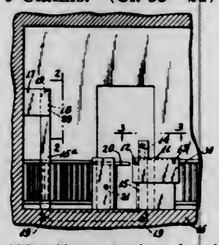


1. A testing device for pairing helical cutters of the pinion type wherein the cutting edges lie in a substantially common plane adjacent one face surface of the cutter, comprising means axially supporting a cutter for free rotary movement, a carriage, means supporting the carriage for sliding movement lateral to the cutter axis, a member rotatably carried by the carriage on an axis perpendicular to the cutter axis at the zone of the cutting edges of the cutter, means for selectively positioning the block in symmetrical angular positions with reference to a plane normal to the axis of the cutter, comprising a test block secured to said member and extending toward said cutter axis, a notched anchor wheel secured to said member, means securing the anchor wheel to the carriage including an index finger on the carriage engageable in one of the notches of the anchor wheel, and indicating means operated by and during movement of said carriage.

2,287,678
IDENTIFICATION DEVICE

James Edwin Godwin, New York, N. Y.

Application March 25, 1941, Serial No. 385,048
9 Claims. (Cl. 35—21)

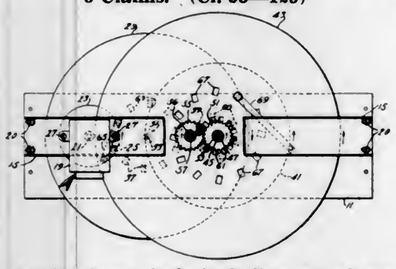


1. An identification device having a casing with a pair of adjacent screens, a transparent tape for receiving identification indicia, means for projecting the indicia of said tape onto one of said screens, a tube rotatively and longitudinally slidably supported within said casing behind the other of said screens, a plurality of slides mounted on said tube and having printed identification indicia to be compared with said first mentioned identification indicia, means for rotating and moving said tube longitudinally to align a desired slide with said second screen, and means for projecting the indicia of the aligned slide onto said second screen so that the printed identification indicia of said slide may be compared with the identification indicia of said tape.

2,287,679
DIAL CLOCK

Frederick A. Greenawalt, Columbus, Ohio

Application February 21, 1941, Serial No. 379,963
5 Claims. (Cl. 58—125)

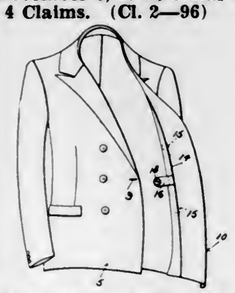


1. A dial type clock including an elongated front frame plate, an elongated rear frame plate spaced from and rigidly secured to the front plate to provide a supporting frame, three dial plates rotatably and overlappingly supported in said frame with their axes in alinement longitudinally of said elongated frame and having peripherally spaced figures thereon cooperative to indicate the time of day, a plurality of tabs on each dial plate integral therewith and punched out laterally therefrom on circles of relatively small diameters to have one face thereof extend substantially radially of the dial plate, an electric motor supported on the rear frame plate, a disc supported thereby and caused to rotate through one complete turn in a minute, a driving pin extending laterally of said disc and caused to engage flatwise with consecutive tabs on the first of said dials at one minute intervals to cause said first dial to turn through a predetermined angle and two other laterally projecting driving pins driven by said first dial to engage flatwise with consecutive bent-out tabs on the other dials at different time intervals to cause different predetermined turning movements thereof to cause figures on all the dials alined with the alined axes to indicate the time of day.

2,287,680
DOUBLE BREASTED COAT

Jerome Giuseffi, Cincinnati, Ohio, assignor to The Goodall Worsted Company, Sanford, Maine, a corporation of Maine

Application November 6, 1941, Serial No. 418,059
4 Claims. (Cl. 2—96)

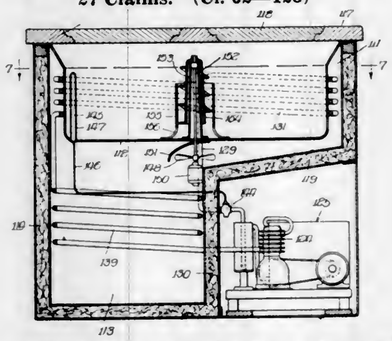


1. In a double breasted coat, a flap secured to the inside of the overlying section of the coat front, and a button on the flap adapted to engage the underlying section of the coat front for holding said underlying section in proper wearing position.

2,287,681
REFRIGERATING DEVICE FOR BOTTLED BEVERAGES

Frederick E. Hazard, Chicago, Ill.

Application July 3, 1935, Serial No. 29,600
27 Claims. (Cl. 62—128)

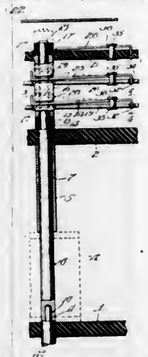


1. In a refrigerating device, an upper compartment provided with a tank forming a container for bottled beverages and the like, a refrigerating compartment below said tank providing a precooler for the bottled beverages, and a refrigerant-evaporator in said upper compartment surrounding the tank, said upper and lower compartments communicating to permit free passage of convection currents between said compartments.

2,287,682
COMBINATION SWITCH AND RECORD SELECTOR

Earle G. Henry, Chicago, Ill., assignor to Buckley Music System, Inc., a corporation of Illinois

Application April 19, 1941, Serial No. 389,345
8 Claims. (Cl. 200—16)



3. In a switch device, a lengthwise movable plunger having a long peripheral layer of conductive material at each end of which is located a layer of insulating material, three spring contact fingers cooperating with said layers to cause said layer of conductive material to connect one of said fingers to either of the others depending upon the position of the plunger, and said layer of conductive material containing a transverse groove in which one of said fingers seats itself when the plunger is in the position into which it is brought upon the energization of the coil and thereby yieldingly holds the plunger in the latter position.

2,287,683
PURIFICATION OF PHOSPHORIC ACID

Rudolph J. Hurka, Anniston, Ala., assignor to Monsanto Chemical Company, a corporation of Delaware

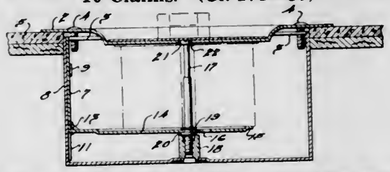
No Drawing. Application February 23, 1940, Serial No. 320,416
12 Claims. (Cl. 23—165)

1. The process of removing arsenic from phosphoric acid substantially completely comprising flowing a liquid, arsenic bearing, phosphoric acid containing from 0.1% to 0.01% of hydrochloric acid, HCl, over a copper surface, at such a rate as to substantially completely deposit said arsenic upon said copper surface.

2,287,684
MOUNTING MEANS FOR ENCLOSED ELECTRIC DEVICES

John G. Jackson and Ralph H. Kingdon, Detroit, Mich., assignors to Square D Company, Detroit, Mich., a corporation of Michigan

Application October 10, 1938, Serial No. 234,092
10 Claims. (Cl. 174—57)

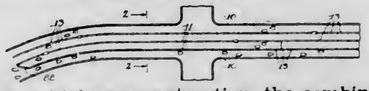


1. Supporting and enclosing means for an electric circuit controlling instrumentality comprising an enclosing box, a front cover for said box, a support for said instrumentality slidably mounted within the box and movable in opposite directions in a path perpendicular to the back wall of the box, to adjust the position of the instrumentality with respect to the location of the front cover, and means including a single screw manipulable to effect positive movement of the support in at least a forward direction with respect to said box.

2,287,685
MEANS FOR PROVIDING VARIABLE CAPACITY HIGHWAYS

Otto K. Jelinek, Chicago, Ill.

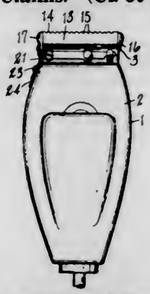
Application August 3, 1940, Serial No. 350,962
11 Claims. (Cl. 94—1)



1. In a highway construction, the combination with a pavement having a longitudinal slot therein, of jacks positioned in said slot at intervals, a vertically movable curb arranged in sections end to end near the top of said slot and means at the upper end of each jack connected to the adjacent ends of two of said sections, whereby each section is provided with two jacks to raise the same, depending members on said curb sections each supporting a compression spring near the lower end thereof, relatively fixed abutments for the upper ends of said springs and means for applying fluid pressure to said jacks to raise said curb sections and to compress said

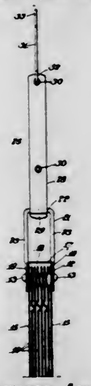
springs, whereby said curb sections may descend under the influence of said springs when said fluid pressure is released.

2,287,686
SHAVING OR HAIR CLIPPING APPARATUS
Ralph E. Jones, Grand Rapids, Mich.
Application January 29, 1940, Serial No. 316,154
12 Claims. (Cl. 30—43)



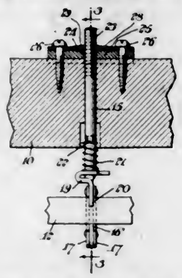
1. In a razor structure having a handle and an open ended cutting head adapted to be removably attached thereto, a pair of guard elements for said head disposed at the opposite ends thereof, one of said elements being pivotally secured to the handle to pivot with reference to the head and transverse the length thereof and thereby expose or cover the adjacent end of the head, spring means on said pivoted guard element engaged by the head and handle for holding the element in operative closing relation to the end of the head, and means for removably securing said head to said handle.

2,287,687
LOOM HARNESS
John Jacob Kaufmann, Elkins Park, Pa., assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application December 29, 1939, Serial No. 311,455
6 Claims. (Cl. 139—92)



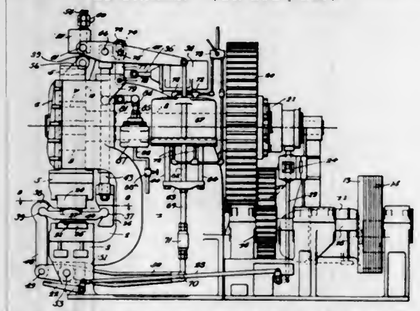
1. In a loom harness for supporting small groups of heddles, heddle supporting bars upon which said heddles are mounted, side members having their end portions engaging the end portions of said supporting bars, U-shaped members each having vertical leg portions resiliently impelled towards each other and engaging the end portions of the supporting bars, and bail members each having leg portions engaging the end portions of the supporting bars to retain the various parts assembled on said supporting bars.

2,287,688
HEDDLE FRAME
John Jacob Kaufmann, Elkins Park, Pa., assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application May 8, 1941, Serial No. 392,435
8 Claims. (Cl. 139—92)



1. A supporting device for the heddle bars of loom harness frames including a bolt member, means carried by said bolt member for supporting a heddle bar, said bolt member having a threaded portion, a block member mounted on the rail of the frame and having a threaded aperture engaged by the threaded portion of the bolt member, a plate member positioned a short distance from the block member and having a threaded aperture engaged by the threaded portion of the bolt member, and means for pressing the plate member toward the block member to cause the plate member to grip the threads of the bolt member.

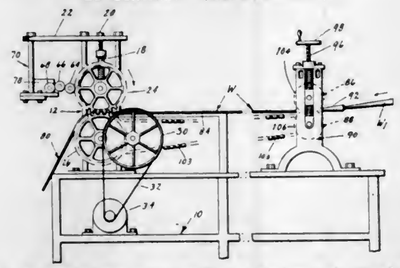
2,287,689
TIE-PLATE PUNCH
William F. Longfield, Cleveland, Ohio, assignor to The Cleveland Punch & Shear Works Company, Cleveland, Ohio, a corporation of Ohio
Application August 2, 1940, Serial No. 349,872
13 Claims. (Cl. 164—110)



1. In a device of the character described, the combination of a supporting base, a reciprocating tool carrying slide thereabove, means for reciprocating said slide, a blank holder disposed between said base and said slide, means for operating said blank holder from said slide comprising, a lever pivoted intermediate its ends, operative connections between one end of said lever and said slide, a rod connected at its upper end to said lever and at its lower end to said blank holder, a second lever pivoted intermediate its ends, operative connections between one end of said lever and said blank holder, an expansible link connecting the other end of said second mentioned lever and the free end of said first mentioned lever, and yieldable, adjustable means

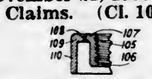
connected to said rod for maintaining said parts in a definite predetermined position when the slide is in its uppermost position.

2,287,690
MARKING AND CUTTING MACHINE
Charles Lester Loverch and Jacob K. Rubin, Brooklyn, N. Y.
Application March 23, 1942, Serial No. 435,814
13 Claims. (Cl. 101—227)



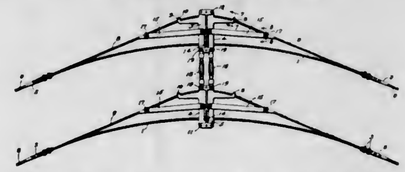
1. Apparatus for cutting strips of predetermined lengths from a web of sheet material and for simultaneously marking said strips adjacent the cut edges thereof, said apparatus comprising a pair of rollers mounted for rotation and having a peripherally continuous bight relation during the rotation thereof, means for rotating said rollers, a plurality of narrow elongated bars carried by one of said rollers at its outer periphery and spaced from each other peripherally of said last mentioned roller, said roller which carries said bars having in its peripheral surface a plurality of peripherally spaced longitudinal grooves parallel to the roller axis and said bars being mounted in said grooves, respectively, for movement radially of the roller to positions in which they project beyond said peripheral surface, resilient means for moving said bars to said positions thereof, means positioned adjacent said roller and engageable by said bars in succession, in said positions thereof, during the rotation of said roller for applying a marking substance to said bars, said bars extending longitudinally of the roller carrying the same whereby to apply to said sheet material, when the latter is moved between said rollers in engagement therewith, a plurality of lines spaced from each other in the direction of the feed of said material, and a cutter carried by said last mentioned roller parallel to the axis thereof and projecting outwardly of said peripheral surface for continually severing from said material a predetermined length of marked material during the feed of the material for said marking thereof, said cutter comprising a bar disposed between two of said marking bars in close relation thereto whereby one of said last mentioned bars is effective both to press the web, adjacent the cut edge thereof, against one of said rollers and to apply said marking material to said web near said cut edge thereof.

2,287,691
METHOD OF MAKING SELF-LOCKING NUTS
Elie Raoul Marchou, Neuilly-sur-Seine, France
Application November 21, 1938, Serial No. 241,575
2 Claims. (Cl. 10—86)



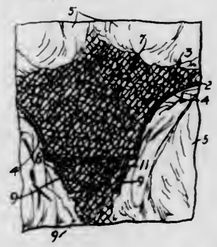
2. The method of forming a deformable self-locking nut from a tubular blank which includes holding the inner surface of said blank against radial expansion inwardly, holding a predetermined part of the external surface of said blank against radial expansion outwardly, holding said blank against axial movement in one direction, pressing into a flange the part of said blank which is free to radially expand outwardly, providing a plurality of radial slots intermediate the edges of said flange, holding a portion of said flange from movement axially of said blank, applying pressure to said flange thereby shaping a portion of the same into a skirt, and stamping threads on the innermost wall of the cylindrical portion of said blank.

2,287,692
TROLLEY WIRE SUPPORT
Samuel S. Matthes, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application January 16, 1940, Serial No. 314,118
17 Claims. (Cl. 191—40)



1. A trolley wire support for use on a curve in an overhead system, comprising an elongated strain plate, an elongated flexible curved bar of rectangular cross-section adapted to guide a current collector along its lower edge, means attached to the bar adjacent its longitudinal center and cooperating with the strain plate whereby the bar is attached to the strain plate, a plurality of means on the plate adapted to cooperate with the said means on the bar whereby the position of the bar may be changed along the longitudinal axis of the plate and the curvature of the bar changed whereby the ends of the bar are brought into tangency with the adjacent trolley wire, means on the plate to attach thereto supporting means for the plate, means on the plate to receive and anchor the trolley wire to the plate and means at each end of the bar to receive the trolley wire and hold it in predetermined relation to the bar.

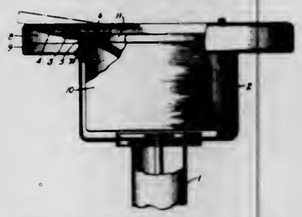
2,287,693
FRESH VEGETABLE PACKING
Frank J. McCann, Salinas, Calif.
Application August 12, 1940, Serial No. 352,221
2 Claims. (Cl. 99—193)



1. A lettuce pack comprising, a lettuce crate having superimposed layers of lettuce heads arranged therein, each two layers of heads being separated by a flexible sheet of material formed

to completely encompass the upper portion of each head in the under layer and having a passage formed therethrough between each set of four adjacent head-encompassing portions, and a layer of crushed ice disposed over said sheet and passing downwardly through each of said passages.

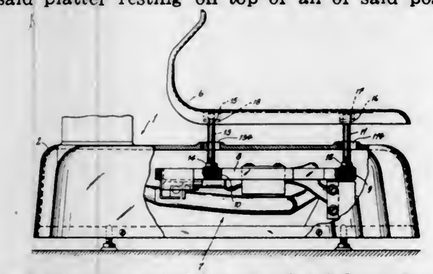
2,287,694
ASH RECEIVER
Edward F. McDonald, Buffalo, N. Y., assignor to McDonald Products Corporation, Buffalo, N. Y.
Application September 29, 1939, Serial No. 297,018
2 Claims. (Cl. 131—241)



1. An ash receiver comprising a receptacle open at the upper end, a narrow rim having an imperforate supporting section normally positioned in substantially horizontal relation but having the surface slightly inclined to position the outer edge slightly above the inner edge, a depending annular flange on the inner edge of said section slidably engaged in the upper end of said receptacle with the under face of said section adjacent said flange seated on the upper edge of said receptacle, said flange having the lower end portion offset inwardly in spaced annular relation to the inner wall of said receptacle, said offset forming a seat below the upper edge in said receptacle, means securing said receptacle to said flange, an ash container formed to slidably fit in said annular flange and engage said seat with the upper edge substantially aligned with the upper surface of said section and the bottom portion suspended in said receptacle from said seat in spaced relation to the walls of said receptacle, and an annular flange depending from the outer edge of said section extending below the bottom face of said section and cooperating to form an annular handle for said ash receiver while said section will normally support a cigarette, or the like in transversely extending relation at any part of its surface when at rest thereon but will cause a cigarette in motion relative thereto and in other than a substantially transverse position to roll or slide inwardly toward said container.

2,287,695
WEIGHING SCALE
William B. McMillan, Clayton, Mo., assignor to Hussmann-Ligonier Company, St. Louis, Mo., a corporation of Missouri
Application September 21, 1940, Serial No. 357,695
7 Claims. (Cl. 265—27)

1. A weighing scale comprising weighing mechanism having a platter supporting frame secured thereto, front platter supporting posts mounted on the front portion of said frame, rear platter supporting posts having reduced neck portions near their upper ends mounted on said frame and a platter having front post retaining members with openings therethrough adapted to retain said front posts and rear post retaining members having slots therein adapted to engage said reduced neck portions in said rear posts, said platter resting on top of all of said posts

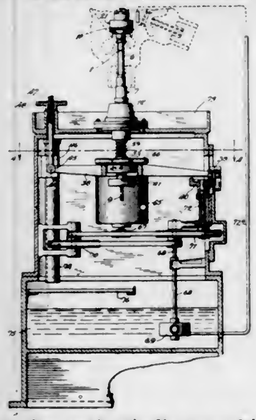


and being prevented from horizontal movement by said retaining members engaging said post.

2,287,696
CARBONIZATION OF CELLULOSE ESTERS
Charles Franklin Miller, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 2, 1940, Serial No. 321,908
7 Claims. (Cl. 41—41)

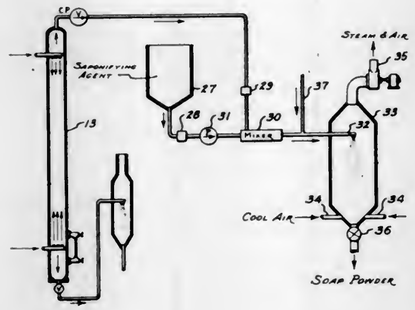
1. A process for the selective destruction of the cellulose ester component of a mixed fabric containing cellulose ester fibers, which comprises treating the same with a polyhydroxy phenol.

2,287,697
VALVE SEAT GRINDER
Harry G. Miller, Denver, Colo.
Application February 7, 1941, Serial No. 377,812
9 Claims. (Cl. 51—125)



1. In a valve seat grinding machine for refinishing valve seats and valve seat inserts in one piece airplane cylinders by means of a high speed abrasive tool driven through a valve stem passage, the combination of a pilot having an axial bore and adapted to extend through said valve stem passage and form a guiding fit therein and locking means to secure said pilot in place with a drive shaft extending through said bore and rotatably and axially movable therein, a high speed abrasive tool mounted upon and guided by one end of said pilot and fixed to said drive shaft for rotary and axial movement therewith, an axially movable non-rotating drive shaft bearing member encompassing the upper end of said drive shaft and axially movable therewith and having a non-rotatable connection with said pilot sleeve whereby alignment of said drive shaft and said tool are provided irrespective of the axial position of said tool, and means to intermittently impart reciprocating axial movement to said drive shaft to raise and lower said high speed abrasive tool with respect to the valve seat without interrupting the rotary motion thereof.

2,287,698
SOLID COMMINUTED SOAP
Victor Mills, Cincinnati, Ohio, assignor to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio
Application February 1, 1939, Serial No. 254,035
1 Claim. (Cl. 252—368)



A free flowing, substantially non-dusting, comminuted soap product having a moisture content of about ten to about twenty-five percent, a bulk density of about .25 to about .40 as compared to water, and composed predominantly of particles easily visible to the naked eye, said particles being individual fragments resulting from the explosion of larger particles and being of feather-like, irregular shape, individually heavier than water, having a surface and a uniform solid interior of about equal hardness and moisture content and a uniform composition throughout any cross section of same and which when placed in distilled water at 110° F. in the proportion of ¾ gram of the soap product to ½ liter of water and stirred with a tablespoon at the rate of 25 double strokes per ¼ minute substantially as described, dissolves substantially completely as evidenced by the absence of any substantial proportion of undissolved particles when the soap-containing water passes through a 60 mesh sieve, in a period of time not substantially exceeding 15 seconds.

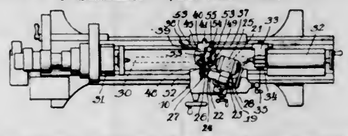
2,287,699
STABILIZED DICALCIUM PHOSPHATE
Henry V. Moss and Maurice G. Kramer, St. Louis, Mo., assignors to Monsanto Chemical Company, a corporation of Delaware
No Drawing. Application February 15, 1940, Serial No. 319,108
7 Claims. (Cl. 23—109)

6. Dicalcium phosphate dihydrate crystals containing a minute amount of tetra sodium pyrophosphate adsorbed from a water solution upon said crystals and stabilized thereby against loss of water of hydration.

2,287,700
RUBBER COMPOSITION
Irving E. Muskat and Frederick Gage, Akron, Ohio, assignors to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
No Drawing. Application October 19, 1939, Serial No. 300,202
7 Claims. (Cl. 260—765)

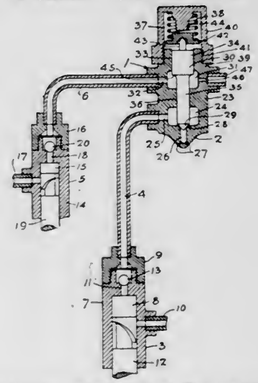
1. A rubber composition comprising rubber and a suitable quantity of a finely divided precipitated calcium silicate having an average particle size not substantially in excess of about one micron, the molecular ratio of SiO_2 to CaO in said silicate being not less than about 2 to 1.

2,287,701
GRINDING WHEEL DRESSER
James Holly Nelson, Racine, Wis., assignor to The Dumore Company, Racine, Wis., a corporation of Wisconsin
Application March 28, 1940, Serial No. 326,507
7 Claims. (Cl. 125—11)



1. A grinding wheel dresser for mounting on a lathe having a frame, a headstock and a tailstock with a spindle, said dresser comprising a supporting member removably secured to said tailstock spindle, a longitudinal member secured to said supporting member substantially parallel to the axis of said tailstock spindle, and extending toward said headstock, and a dressing device adjustably mounted on said longitudinal member whereby it may be positioned between said headstock and said tailstock.

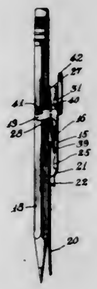
2,287,702
FUEL INJECTION DEVICE
William M. Nichols, Auburn, N. Y., assignor to American Locomotive Company, New York, N. Y., a corporation of New York
Application May 15, 1941, Serial No. 393,643
1 Claim. (Cl. 123—139)



Fuel injection apparatus for supplying fuel to an internal combustion engine cylinder comprising a casing having a fuel injection port in one end thereof provided with a valve seat, a fuel chamber adjacent said seat, a piston cylinder, and a wall separating said chamber from

said cylinder having an orifice extending therethrough; a unitary valve element including a control valve for said seat, a piston in said cylinder spaced from said wall providing a chamber for working fluid, and a stem extending through and closing said orifice and rigidly connecting said valve with said piston; a pumping device communicating with said fuel chamber for supply of fuel thereto; another pumping device communicating with said working fluid chamber for supplying working fluid thereto and for alternately producing fluid pressure and release of same therein whereby under said pressure said piston is moved in one direction to move said valve to port-open position; and a spring bearing on said piston for moving said piston in the opposite direction when said pressure is released for moving said valve to port-closed position, said spring being compressed by said piston during its first said movement.

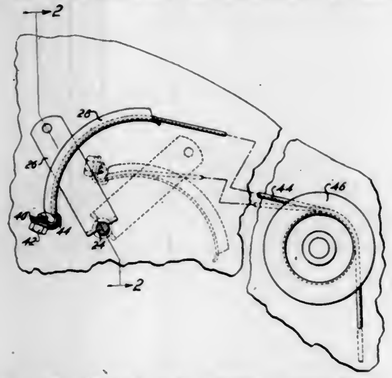
2,287,703
COMBINATION PENCIL CLIP AND SHARPENER
Gustaf W. Nyberg and Charles Johnson, Chicago, Ill.
Application May 11, 1940, Serial No. 334,480
17 Claims. (Cl. 120—84)



1. In combination in a device of the character described, an elongated body member having a pair of opposed pencil-embracing arms at one end of said body, a spring lever located between said arms and having a free end for engaging and pressing an associated pencil against said arms, a separate knife blade member located between said spring member and said body member for sharpening the point of the pencil when the latter is removed from the device and inserted between said spring member and said body member, and means at the opposite end of said body for clamping the other end of said spring member and said knife blade permanently to said body member.

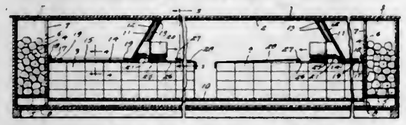
2,287,704
ACCELERATOR CONTROL
John O. Oberg, Kenosha, Wis., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland
Application January 27, 1941, Serial No. 376,101
5 Claims. (Cl. 74—513)

1. In a throttle control device, a shaft rotatably supported for opening said throttle, an arm secured to said shaft and extending radially therefrom, an arcuate ramp secured to said arm and eccentrically with respect to said shaft, a cable extending over said ramp and secured to one end thereof, and an accelerator pedal, the



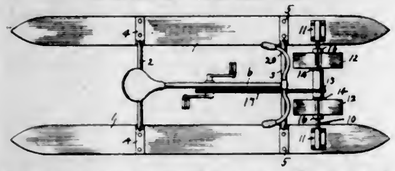
other end of said cable being secured to said pedal.

2,287,705
PRECOOLING APPARATUS
Sidney Perkins, Hammond, Marion T. Fannaly, Ponchatoula, and Malcolm B. Wright, Jr., Hammond, La.
Application February 3, 1941, Serial No. 377,262
6 Claims. (Cl. 62—24)



1. In combination with a refrigerator having bunkers at its ends and means for supporting stacks of material between the bunkers and the center of the refrigerator, partitions in the refrigerator over the stacks spaced from ends of the stacks and in sealed engagement with the walls and the top of the refrigerator, blankets for the stacks extending between the bunkers and the lower ends of the partitions and resting upon the stacks, platforms resting upon exposed portions of the stacks, means for shifting the platforms along the stacks, necks extending outwardly from the partitions about openings formed therein, tubular fan housings carried by said platforms and extending longitudinally of the refrigerator with their inner ends connected with outer ends of the necks, and fans in the housings for drawing cold air out of space between the partitions and the bunkers and discharging the same along the exposed portions of the stacks.

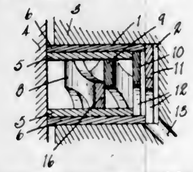
2,287,706
BICYCLE BOAT
Elwood R. Perry, Charlottesville, Va.
Application September 2, 1941, Serial No. 409,295
1 Claim. (Cl. 115—26)



A bicycle boat comprising two floats, a frame connecting said two floats, a sprocket-wheel

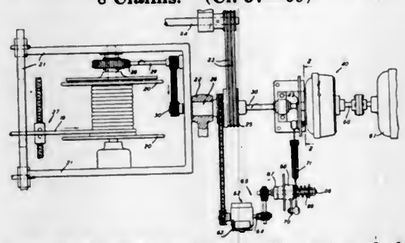
mounted in said frame, pedals secured to said sprocket-wheel, a shaft connecting said two floats near the front end thereof, a sprocket-wheel revolubly mounted on said shaft and having square sockets in opposite ends thereof, two paddle wheels revolubly mounted on said shaft each having a square boss on one end to fit into the square socket of the sprocket-wheel hub, collars rigidly secured to said shaft adjacent the paddle wheels to hold them securely to the sprocket-wheel, and means mounted in said frame for guiding the boat.

2,287,707
PISTON RING ASSEMBLY
Harold P. Phillips, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich.
Application July 24, 1939, Serial No. 286,055
12 Claims. (Cl. 309—45)



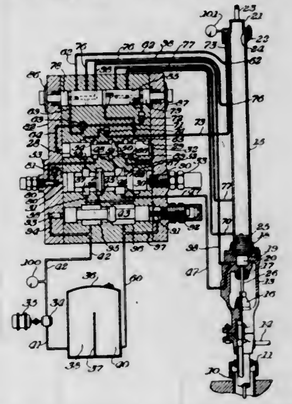
12. In a piston ring assembly, a plurality of annular split wall engaging elements including at least one pair of elements of different diameters in side-by-side engagement, and a further element in axially spaced relation to the pair, the larger element of said pair being disposed axially remote from said further element, and means for radially expanding said elements including means expandingly engaging said larger and further elements, and means radially overlapping said larger element to engage the smaller element of said pair and expand the same independently of the remote and further elements.

2,287,708
STRAND HANDLING APPARATUS
Ellwood W. Reynolds, Westfield, and Daniel V. Waters, Flemington, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 9, 1941, Serial No. 392,670
8 Claims. (Cl. 57—69)



1. In an apparatus for handling strands having a cradle driven in rotation at constant speed and a reel mounted in the cradle with its axis at an angle to the axis of the cradle to be rotatable with the cradle about the axis thereof and simultaneously rotatable about its own axis, means to drive the reel in rotation about its own axis to exert constant tension upon a strand wound on the reel, the said means comprising a shaft entering the cradle in the axis of rotation thereof, means to drive the reel from the shaft, constant speed power supply means, and constant torque transmission means interposed between the power supply means and the shaft to convert the constant speed variable torque of the power means into constant torque variable speed at the shaft.

2,287,709
HYDRAULIC WELL PUMPING MECHANISM
Louis A. Ringman, Toledo, Ohio, assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application January 30, 1940, Serial No. 316,323
3 Claims. (Cl. 121—158)

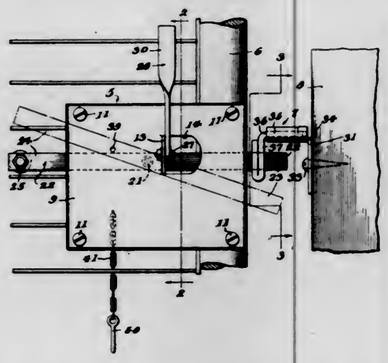


1. In a fluid operated pumping mechanism, the combination of a cylinder, a piston working in the cylinder and biased to move toward one end of the latter, a master valve arranged when in one position to admit fluid under pressure to one end of the cylinder to move the piston toward the other end and when in another position to relieve the fluid pressure from the cylinder to permit the piston to return, a pilot valve arranged to control the operation of the master valve, two sets of control lines, one set entering the cylinder adjacent one end and the other adjacent the other end for regulating the stroke of the piston, check valve mechanism, and unitary means for selectively connecting one control line through said check valve mechanism from each set with the pilot valve for operating the same, the pressure of the fluid being effective through a selected control line at one end to actuate the pilot valve in one direction and the relief of said pressure through a selected control line at the other end being effective to actuate the pilot valve in the other direction and accordingly control the stroke of the piston.

2,287,710
LATCH
Robert L. Sayles, Meriden, Kans., assignor of one-half to Stewart K. Sayles, Meriden, Kans.
Application February 3, 1941, Serial No. 377,232
1 Claim. (Cl. 292—236)

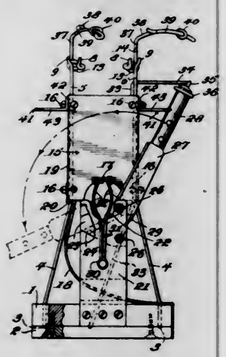
In a gate latch, a substantially rectangular shaped casing provided with slots in opposite end walls thereof and having ears struck out from opposite side walls thereof providing openings arranged between the slots and opposite to each other, a latch bar pivoted in said casing and protruding through the slots, said ears being arranged at right angles to the side walls of the casing and extending in opposite directions to each other, and L shaped levers pivoted on the ears with portions thereof extending

through the openings and engaging over the bar and the other portions extending upwardly and



outwardly from the casing to provide handles for the manual pivoting of said latch bar from either side of the casing.

2,287,711
POULTRY HOLDING AND BEHEADING DEVICE
Thomas A. Schuhmacher, Chadron, Nebr.
Application August 8, 1941, Serial No. 406,054
3 Claims. (Cl. 17—12)



1. A poultry holding and beheading device comprising a base, rods secured to said base and including upright portions, a rectangular housing secured to the upright portions and supported thereby above the base, said housing having open upper and lower ends and adapted to receive a fowl therein, means secured to and rising from the base and having a seat in the upper end thereof for receiving the neck of the fowl, cutting means pivotally secured for swinging movement relative to the seat for severing the neck, a drip shield between the base and the housing to underlie the latter for receiving blood to direct the same from the device, said upright portions extending above the housing, spring clamping jaws for holding the legs of the fowl and formed on the upper ends of certain of said upright portions and connected to the other upright portions for the latter to support the jaws, and means for holding the neck in the seat.

2,287,712
FERROTITANIUM ALLOY
Jerome Strauss, New York, N. Y., and Holbert Earl Dunn, Bridgeville, Pa., assignors to Vanadium Corporation of America, New York, N. Y., a corporation of Delaware
No Drawing. Application February 15, 1940, Serial No. 319,080
3 Claims. (Cl. 75—58)

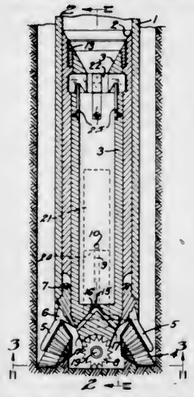
1. A ferro-titanium alloy containing less than 10% carbon, an effective amount of titanium, an effective amount of zirconium, the sum of the titanium and zirconium being between about 10 and 50%, the zirconium not exceeding the titanium, about 2 to 15% of manganese, the balance being substantially all iron except for silicon in amount from about .05 to 30% and aluminum in amount from a trace up to about 10%.

2,287,713
TORQUE CONTROLLED ENGINE
Stanley M. Udale, Detroit, Mich., assignor to George M. Holley and Earl Holley
Application May 10, 1940, Serial No. 334,329
2 Claims. (Cl. 123—98)



1. A torque control for an internal combustion engine having a carburetor, a throttle therefor, a fuel valve therefor, adapted to admit extra fuel to obtain maximum power, an ignition timing device, a torque indicating device, and means responsive to the torque when the torque exceeds a predetermined maximum torque for closing the throttle, for admitting extra fuel and for retarding the timing device.

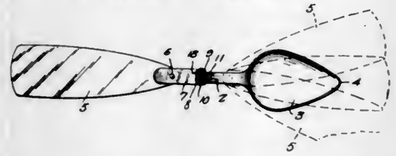
2,287,714
DRILL BIT
Clinton L. Walker, Piedmont, Calif.
Application November 6, 1939, Serial No. 303,004
9 Claims. (Cl. 255—75)



1. The combination in a tool for a rotary drill stem of a drilling device, of a tubular support insertable through said stem, arms pivoted on the end of the support, roller cutters on said arms, a second tubular support telescoped within said first support on which the first support is

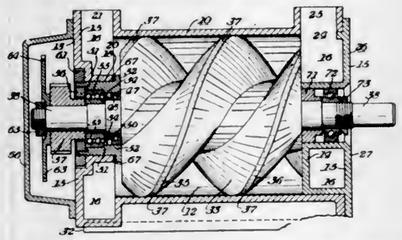
suspended, means on said second support for moving the arms and therefore the cutters outwardly of the stem axis to cutting position, and means for locking said cutters on the end of the drill stem.

2,287,715
SHIELDED SPOON
Lloyd P. Weens, Rockford, Ill.
Application April 4, 1941, Serial No. 386,937
5 Claims. (Cl. 30—326)



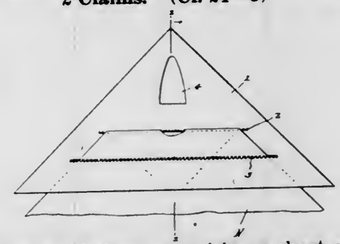
1. A spoon for use in eating citrus fruits, comprising a handled bowl, a foldable fan like shield hingedly associated with the handle for hinged movement to a normal position in overlapped contacting relation with the handle or to an operative position in overlying spaced relation with the bowl, and means for urging and holding the shield to and in its normal position.

2,287,716
FLUID DEVICE
Joseph E. Whitfield, Grove City, Pa.
Application April 22, 1941, Serial No. 389,729
22 Claims. (Cl. 230—143)



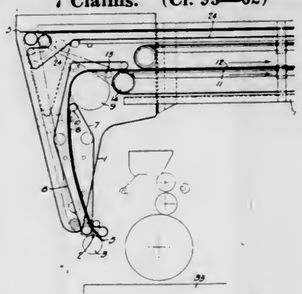
1. In a fluid device of the character described, the combination of a casing having parallel cylindrical chambers which intersect to form a common chamber, a rotor member and a gate member rotatably disposed in said chamber, said members having complementary intermeshing helical threads and grooves of such shape as to form a continuous seal line therebetween which extends from one end to the other and is maintained as the members rotate, the threads of the rotor member extending through no more than one complete turn, both chambers being open at one end providing a fluid inlet, an end wall closing a portion of both chambers at the other end providing a fluid outlet therein, the cylindrical walls of the chambers and the threads and grooves of the members cooperating to form fluid pockets which advance toward the outlet end when the members rotate, said end wall covering substantially one side of the corresponding ends of said members and extending between and to the other side of said members to the intersection of said chambers to completely close each pocket until said pockets are closed at the other end by the cooperation of the threads and grooves of the members forming the sealing line across the common chamber at the intersection of the two chambers.

2,287,717
NAPKIN HOLDER
Merritt Wesley Barnes, Syracuse, N. Y.
Application August 26, 1941, Serial No. 408,392
2 Claims. (Cl. 24—8)



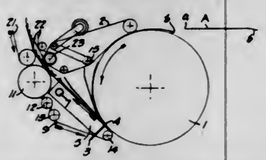
1. A napkin holder comprising a sheet of substantially triangular shape, upper and lower slits in the sheet paralleling each other and also paralleling the lower edge of the device and the apex of the device having an opening therein, some of the walls of the slits being cut to provide saw teeth projections.

2,287,718
APPARATUS FOR GUMMING THE FLAPS OF ENVELOPES OR BAGS
Harold Holmyard Beasley, Ashton Gate, Bristol, England
Application July 5, 1941, Serial No. 401,209
In Great Britain June 20, 1940
7 Claims. (Cl. 93—62)



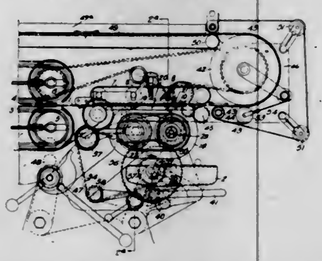
1. An improved method of gumming the flaps of envelopes or bags in the manufacture of envelopes or bags consisting in arranging and supporting the envelopes or bags in overlapping relationship in a continuous line with predetermined areas of their flaps exposed as an uninterrupted surface and traversing the line of envelopes endwise each with an ungammed flap at one end, gumming the exposed areas of the flaps during their translative movement, reversing the direction of travel of the line of envelopes or bags and bending the gummed flaps away from each other whilst maintaining their travel after their flaps have been gummed so that the gummed flaps do not contact and the line of envelopes or bags with ungummed flaps is subjacent to the line of envelopes or bags with gummed flaps, heating the two lines of envelopes or bags, transversely bowing the line of envelopes or bags with the gummed flaps, and maintaining a continuous stream of overlapping envelopes or bags by feeding envelopes or bags successively on to the trailing end of the line of envelopes or bags to maintain a uniform layer and line of travelling envelopes or bags.

2,287,719
ARRANGING AND FEEDING ENVELOPES OR BAGS FOR GUMMING THE FLAPS
Harold Holmyard Beasley, Ashton Gate, Bristol, England
Application July 5, 1941, Serial No. 401,210
In Great Britain June 20, 1940
9 Claims. (Cl. 271—8)



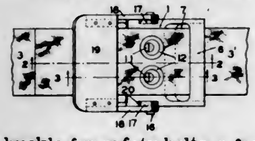
1. Improved apparatus for arranging and feeding envelopes or bags as a preliminary step in gumming the flaps thereof in connection with envelope or bag making machines, comprising means adapted to reverse the envelope sections during their travel from the base closing stage to the gumming stage, such reversal consisting in making the trailing ends at the base sealing stage into the leading ends at the flap gumming stage, means automatically partially overlapping the reversed envelopes or bags in such manner that a continuous line of envelopes or bags is formed and predetermined areas of the flaps are exposed on one side of the line of envelopes or bags, and means automatically conveying the line of overlapped envelopes towards a flap gumming stage.

2,287,720
GLUING OR GUMMING ARTICLES
Harold Holmyard Beasley, Ashton Gate, Bristol, England
Application July 5, 1941, Serial No. 401,211
In Great Britain June 20, 1940
9 Claims. (Cl. 91—54)



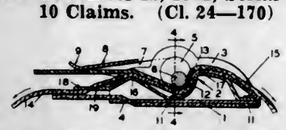
1. Apparatus for gluing or gumming articles comprising a driven endless conveying or feeding device for the articles, an endless driven gluing or gumming member adapted to brush or scrub the articles and located immediately subjacent to said conveying or feeding device over which the articles are adapted to be fed by the conveying or feeding device, a parallel pair of longitudinal skid bars located opposite sides of the upper track of the said endless brushing or scrubbing member and adapted to engage marginal parts of the articles during their passage across the brushing or scrubbing member, means to adjust the space between said skid bars, means to feed the articles in a continuous stream between the said conveying or feeding device and the gluing or gumming member, and means to withdraw and traverse the articles away from said gluing or gumming member at a greater speed than their rate of travel over such member.

2,287,721
BUCKLE
Howard Beazley, Marshall, Mo.
Application September 27, 1941, Serial No. 412,556
7 Claims. (Cl. 24—180)



4. In a buckle for safety belts, a frame attached at one end to the fixed end of a belt, said frame being provided at the other end with a keeper for the free end of the belt, a movable member carried by the frame, said member including a pair of arms and a transverse finger piece, cams rigidly carried by the arms and cooperating with the frame, a cross bar eccentrically pivoted in said cams, and a tongue rigidly carried by said bar and projecting through a face of the frame to engage the free end of the belt.

2,287,722
BUCKLE
Howard Beazley, Marshall, Mo.
Application November 12, 1941, Serial No. 418,731
10 Claims. (Cl. 24—170)



10. In a buckle for safety belts, a frame formed of a sheet of metal, said frame having a pair of integral ridges one of which forms a breast, side plates carried by the sheet, a finger piece pivoted between said side plates, a tail piece carried by said finger piece and cooperating with the breast to clamp the two ends of a belt together, and frictional means carried by the finger piece operating on the side plates to dampen the movement of said finger piece.

2,287,723
COMPACTER
Wilmer B. Boyd and Frank L. Carpenter, Lincoln, Nebr.
Application February 20, 1940, Serial No. 319,959
2 Claims. (Cl. 94—50)

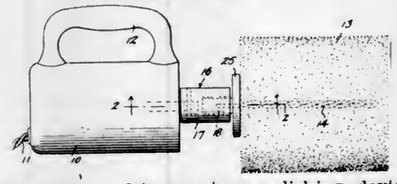


1. In a compacter the combination with a frame, and a ballast box suspended intermediate the ends of the frame, of a rear compacter wheel assembly comprising bracket members projecting rearwardly from the ballast box, a pivot shaft carried by the bracket members extending transversely of and below the frame, a plurality of forks pivotally secured to the shaft and extending rearwardly to a point underneath the rear end of the frame, a saddle plate on top of the rear end of each fork, a compacter wheel journalled for rotation in each fork between the saddle plate and the pivot shaft, there being an elongated opening in each saddle plate, a respective rod for each fork rigidly secured at the upper end to the frame and slidably projecting through the elongated opening in the saddle plate of the fork, a helical compression spring sleeved on each rod between the frame and saddle plate, and a stop collar on each rod engageable with the underneath face of the saddle plate to limit downward movement of the fork and respective compacter wheel under action of said spring when the compacter wheel encounters a soft section of a roadbed.

2,287,724
ANTISEPTIC
Milton T. Bush, Nashville, Tenn., assignor to Mallinckrodt Chemical Works, St. Louis, Mo., a corporation of Missouri
No Drawing. Application April 5, 1939, Serial No. 266,127
14 Claims. (Cl. 167—71)

1. An antiseptic containing, as an active ingredient thereof, a substance which, in aqueous solution, provides a cation having the type-formula R—Hg^+, where R is an alkyl.

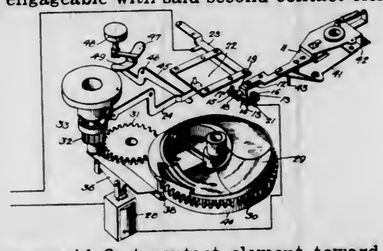
2,287,725
MOTOR DRIVEN ROTARY POLISHING DEVICE
John Conte, Jersey City, N. J.
Application January 15, 1941, Serial No. 374,444
1 Claim. (Cl. 15—23)



In a motor driven rotary polishing device, a motor including a driven shaft, a polishing element including a spirally twisted wire core having rearwardly directed spaced terminals, a plug member having a flanged outer end through which flange the terminals of the core extend and are anchored in longitudinally extending grooves in the periphery of the plug member and protrude above the periphery thereof to provide longitudinally extending splines, a socket member secured to the driven shaft of the motor and having an axial bore and longitudinally extending peripheral grooves in the periphery of the bore in which bore the plug member is slidable with its splines disposed in the said peripheral grooves for keying the plug member to the socket for rotation therewith and said plug member having a circumferential groove in the periphery thereof, and a spring pressed ball carried by said socket member and adapted to engage in said circumferential groove for detachably retaining the plug member in the bore of the socket and for releasably retaining the motor and polishing element against axial separation.

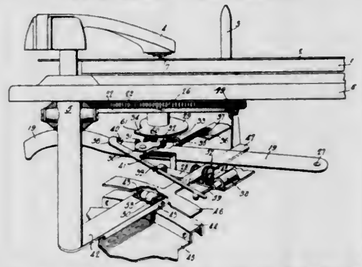
2,287,726
AUTOMATIC PHONOGRAPH
Richard S. Cranmer, Philadelphia, Pa., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application August 21, 1941, Serial No. 407,787
8 Claims. (Cl. 274—15)

3. In an automatic phonograph having a tone arm and means for moving the tone arm from a record-finishing position to a record-commencing position, a trip mechanism for controlling said means comprising a member movable with said tone arm, an electrical contact arm having one end pivotally mounted on said member and carrying a contact element at its free end, a second contact element comprising a plane surface disposed in closely spaced parallel relation to the path of movement of said first contact element, said first contact element being normally out of engagement with said second element, a friction roller mounted on the pivot of said contact arm and engageable with said second contact element



to move said first contact element toward said second contact element, means for periodically moving said second contact element out of engagement with said roller at time-spaced intervals such that said first contact element is prevented from engaging said second contact element until the movement of the tone arm exceeds its normal rate, and means operable by the engagement of said first contact element with said second contact element for actuating the tone arm moving means.

2,287,727
AUTOMATIC PHONOGRAPH
Richard S. Cranmer, Philadelphia, Pa., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application May 15, 1941, Serial No. 393,636
11 Claims. (Cl. 274—10)

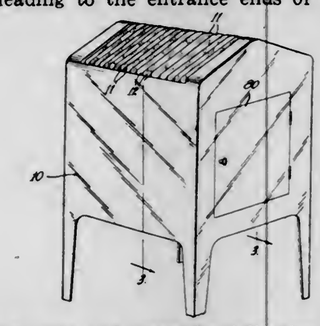


1. In an automatic phonograph having a turntable and a tone-arm adapted to move across a recording, a trip mechanism comprising a member adapted to move with the tone-arm, a pair of electrical contacts carried by said member, means urging said contacts toward the open position, holding means preventing movement of one of said contacts thereby causing one of said contacts to approach the other as said tone-arm traverses the recording, and means operable by the turntable periodically to release said holding means at intervals bearing a predetermined timed relation to the normal speed of advance of said tone-arm.

2,287,728
SORTING MACHINE
James F. Dale, Highland Park, Ill.
Application May 31, 1941, Serial No. 396,036
24 Claims. (Cl. 271—64)

1. A machine for sorting business papers com-

prising means defining a plurality of sorting compartments, means defining separate feed passageways leading to the entrance ends of the said



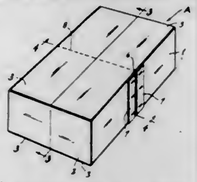
compartments, and means for delivering said papers into the said compartments to form edgewise stacks of increasing height.

2,287,729

CONTAINER

Clifford D. Fallert, St. Louis, Mo., assignor to Gaylord Container Corporation, St. Louis, Mo., a corporation of Maryland

Application May 13, 1940, Serial No. 334,731
3 Claims. (Cl. 229—51)



1. A carton comprising a closed body including top, bottom, side walls and two adjacent partition walls connecting said side walls and dividing said carton into compartments, said top walls comprising inturned flaps along the upper and lower edges of said end walls that terminate short of said partition walls and inturned flaps that extend continuously along the upper and lower edges of said side walls from end to end thereof across the partition walls and are folded over upon and secured flatwise to said end wall flaps, each of said side walls having a vertical slot therein disposed in alinement with said partition walls, whereby said carton is adapted to be divided into separate closed carton sections by severing said top and bottom walls along lines extending from the slot in one of said side walls to the slot in the other of said side walls, each of said partition walls comprising a member that is separate from said side walls and has both end portions bent away from the other partition wall and permanently secured flatwise to the adjacent side wall.

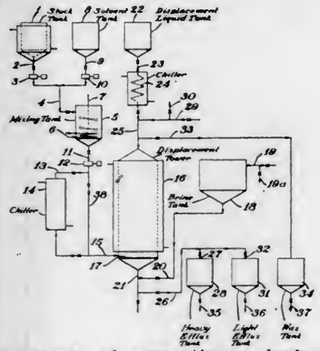
2,287,730

TREATMENT OF WAX

Seymour W. Ferris, Aldan, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania

Application January 30, 1935, Serial No. 4,157
9 Claims. (Cl. 196—18)

1. A process for dewaxing waxy oil which comprises chilling waxy oil to congeal the same and leaching the congealed waxy oil with a solvent which has a relatively high solvent power for the oil but a relatively poor solvent power for the wax, the temperature of leaching being sufficiently low to maintain said wax in a solid condition, said solvent being of a higher specific gravity than said wax and separating said wax from the oil solvent solution.



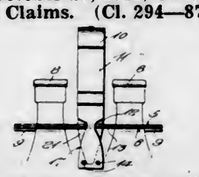
3. The process of separating a hydrocarbon oil-wax mixture into solid constituents and liquid constituents, which comprises producing a wax-containing mixture, cooling said mixture to effect crystallization of wax to form a wax mass containing less than substantially 10% by volume of solid wax and displacing from said wax mass, without substantial agitation thereof and under a low differential pressure, the liquid constituents of said mass with a displacing liquid, while maintaining a substantially horizontal interface between said displacing liquid and the liquid constituents being displaced.

2,287,731

COMBINED BOTTLE LIFTER AND CARRIER

Charles M. Franks and William A. Nightingale, Evansville, Ind.

Application October 20, 1941, Serial No. 415,814
12 Claims. (Cl. 294—87)



1. A device of the class described including relatively stationary and movable plates having registering openings therein adapted to receive the neck of a bottle, and a supporting handle movable through the plates and provided with means coacting with said plates for actuating the movable plate to grip the bottle neck when an upward pull is exerted on the handle and to release said movable plate from gripping engagement with the bottle neck when the handle is depressed.

2,287,732

PROCESS FOR RECLAIMING SULPHURIC ACID

Frederick E. Frey and Ralph C. Cole, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application September 2, 1939, Serial No. 293,302
3 Claims. (Cl. 23—172)

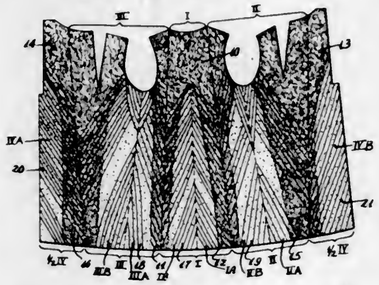
2. The process of reclaiming sulphuric acid that has become spent in use as a catalyst for the alkylation of low boiling isoparaffins with olefins to produce saturated hydrocarbons in the motor fuel boiling range which comprises adding the spent acid to from 1.5 to 4 times its own weight of ice to cool the material to a subatmospheric temperature and cause an oil to be precipitated, removing said oil mechanically, steam distilling the diluted acid by concomitant heating and injection of steam to remove additional organic material present in the spent acid without substantially concentrating said acid and subsequently removing water from the acid until it becomes concentrated to a strength suitable for re-use for the alkylation of isoparaffins with olefins and has a free sulphuric acid content of at least about 95 per cent.

2,287,733

SHEARED BEAVER COAT AND METHOD OF MAKING THE SAME

Armin Fried, New York, N. Y.

Application May 3, 1941, Serial No. 391,670
3 Claims. (Cl. 149—28)



1. In a method for making the body section of a sheared beaver fur coat having a specific arrangement of light gray and dark gray areas of skins as described, the steps of cutting each skin down the center and then cutting the central and bottom areas of each half skin into diagonal strips, and then arranging said cut parts into a panel which is the required length of the fur coat and which has a dark gray area across its top portion and down its sides and the remainder of its area of light gray.

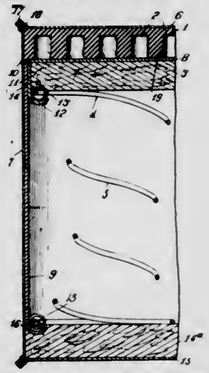
2,287,734

MATTRESS

William W. Gleason, Chicago, and Anthony J. Schob, Oak Park, Ill., assignors to Nachman-Springfilled Corporation, Chicago, Ill., a corporation of Illinois

Application June 5, 1939, Serial No. 277,464
6 Claims. (Cl. 5—351)

1. A structure of the type specified including a spring assembly, fibre batts mounted upon faces of the latter, a fabric housing for said assembly and batts including a boxing strip, top and bottom cover sheets secured marginally to the upper and lower edges of the boxing strip with one of said cover sheets in contact with one of said batts and the other thereof spaced from the other of said batts, a fabric sheet disposed immediately over said last-named batt and secured marginally to said boxing strip in spaced relation to the top cover sheet for cooperation with the latter and said boxing strip to provide a compartment to receive a resilient pad of a molded material, and a pad of the last-named type completely filling said compartment, the inner horizontal wall of said last-named compartment equipped with a slit between parallel edges thereof substantially equal in length with the latter through which said pad



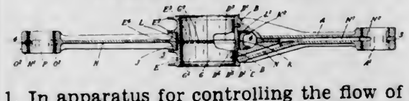
may be inserted into and removed from said compartment.

2,287,735

COOLING OF PISTONS OF INTERNAL COMBUSTION ENGINES

Frank Bernard Halford, Edgware, England, assignor to D. Napier & Son Limited, London, England, a company of Great Britain

Application October 30, 1941, Serial No. 417,199
In Great Britain November 8, 1940
3 Claims. (Cl. 123—176)



1. In apparatus for controlling the flow of liquid from a crankshaft towards the piston of an internal combustion engine, the combination of a hollow crank pin with a radial passage leading from its interior to an opening in the outer surface of the crank pin, a connecting rod having a passage therein running throughout its length with one open end of this passage in the crank pin end and the other open end within the opposite end of said connecting rod, a shell lying within said crank pin end having its inner surface a groove running circumferentially for a determined distance only and a hole through the shell which registers with the opening in said crank pin end of the passage through the connecting rod, so that liquid can flow from the said groove into the said passage, and a lining of bearing metal in the shell with a series of holes through this bearing metal positioned where they will register with the groove in the shell, cooling liquid being thus able to flow to the passage through the connecting rod from the interior of the crank pin upon rotation of the crank shaft only during such time as the end of the radial passage through the crank pin is passing along opposite to the groove in the said shell.

2,287,736

PRODUCTION OF MOTOR FUELS BY SOLVENT EXTRACTION

Arthur B. Hersberger, Lansdowne, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application May 16, 1939, Serial No. 273,890
6 Claims. (Cl. 196—13)

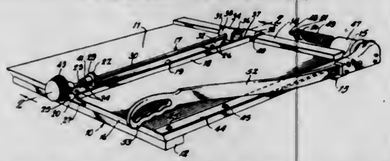
1. In the solvent refining of mineral oils, the

process which comprises separating an oil containing paraffinic and naphthenic hydrocarbons into fractions respectively more paraffinic and more naphthenic than the original oil by extracting said oil with a solvent comprising morpholine and a lower aliphatic alcohol.

2,287,737
TREATMENT OF WHEAT AND KINDRED CEREALS
Erich Gustav Huzenlaub, Brentford, England, assignor of one-half to John Heron Rogers, Kenley, England; Francis Heron Rogers executor of said John Heron Rogers, deceased
No Drawing. Application February 21, 1940, Serial No. 320,212. In Great Britain March 16, 1939
10 Claims. (Cl. 99—80)

1. A process for the treatment of cereal grain containing starch particles, for the purpose of obtaining an improved product, which comprises the steps of removing entrained air from the grain by subjecting it to a high vacuum treatment, soaking the whole of the grain in water at a raised temperature to dissolve out at least a substantial portion of the nutritive solutes; applying fluid pressure so as to force the solution into said starch particles and enrich them with a substantial portion of said solutes, and removing the grain from the solution and drying it.

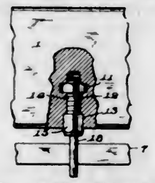
2,287,738
PAPER CUTTER GUIDE
Jonas F. Johnson, deceased, late of Chicago, Ill., by Ellen S. Johnson, administratrix to collect, Chicago, Ill., assignor to Ellen S. Johnson, Chicago, Ill.
Application October 4, 1941, Serial No. 413,605
11 Claims. (Cl. 164—44)



1. An adjustable guide for a paper cutter having a substantially flat topped base with oppositely beveled front and rear edge portions, said guide comprising a guide bar adapted to be positioned transversely of the base of the paper cutter, a flanged member carried by the guide bar and adapted to have sliding frictional engagement with the beveled front edge of the base, a second flanged member carried by the guide bar and adapted to have sliding frictional engagement with the beveled rear edge of the base, and a clamp operating member carried by the base intermediate the front and rear flanged members and adapted to move the flanged members relatively to each other, and cam-wise transversely of the beveled edges with which said flanged members are engaged to anchor the guide bar and to force the guide bar close to the base.

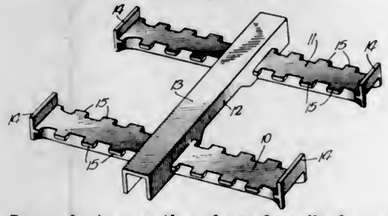
2,287,739
ADJUSTABLE SUPPORT FOR HEDDLE BARS
Leo Montie Johnston, Jenkintown, Pa., assignor to Walker Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application July 23, 1941, Serial No. 403,638
8 Claims. (Cl. 139—92)

1. A heddle frame, comprising the combination of a rail, a heddle bar carrying heddles, a nut-and-bolt unit one element of which is attached and secured against rotation with respect to said rail and the other element being provided with a swivel extension, an intervening element rotat-



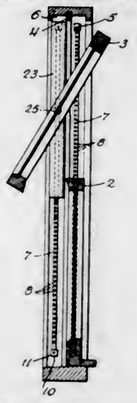
ably supported by said extension and normally connected to said bar, to permit adjustment of the tension upon the heddles carried by said bar without rotating or disengaging said intervening element from said bar.

2,287,740
TRAY FOR HEAT TREATING FURNACES
Henning Klouman, Michigan City, Ind., assignor to Michiana Products Corporation, Michigan City, Ind., a corporation of Indiana
Application April 8, 1941, Serial No. 387,397
6 Claims. (Cl. 263—47)



1. In a device of the class described, spaced parallel side pieces having lateral projections between their ends, and flanges projecting upwardly at their ends above the level of the lateral projections, and a plurality of cross pieces loosely connected with said lateral projections, the end cross pieces being limited by the upward projections against movement lengthwise of the device.

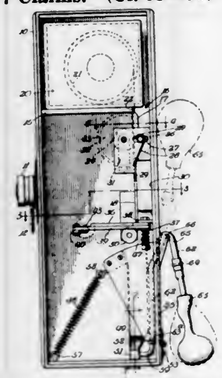
2,287,741
WINDOW STRUCTURE
Joseph I. Levyn, Brooklyn, N. Y.
Application August 10, 1939, Serial No. 289,381
4 Claims. (Cl. 20—49)



1. A window structure comprising a frame

having a pair of facing runways, a sash, a rod provided with a row of apertures arranged in each of said runways extending from near the bottom to near the top of the runway secured at their ends to said frame, a slide bar on each side of said sash, and a pivotal lock on each vertical side edge of said sash for pivotally locking said sash to said rods, each of said pivotal locks including a spring-pressed pin adapted to be forced into one of the apertures in a rod, and cam means caused to function by said sash when the sash is turned from a vertical position to release said spring-pressed pin.

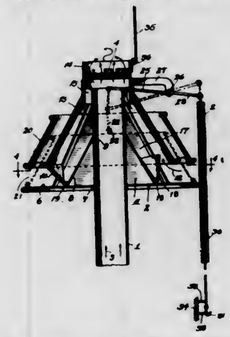
2,287,742
PHOTOGRAPHIC APPARATUS
Louis Mandel, Chicago, Ill.
Application July 25, 1940, Serial No. 347,505
7 Claims. (Cl. 95—90)



1. A developing container of the character described, means for supplying a developing solution to and for removing it from said container, the said means embodying a hollow compressible element, and a flexible tubular member forming communication between said element and said container whereby upon compression of said element said solution will be ejected therefrom through said tubular member and into the said container, and upon expansion thereof the said solution will be withdrawn from the container into said element, the point of connection of said tubular member with the container being such that when the said hollow element is allowed to hang by said tubular member, the latter will be distorted to close the communication between said hollow element and said container.

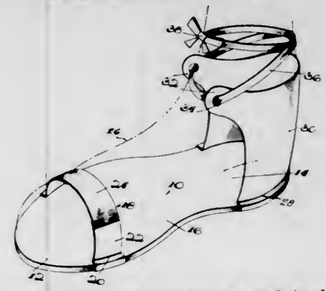
2,287,743
VENTILATOR AND SMOKE REMOVER
James H. McPartland, St. John, New Brunswick, Canada
Application March 13, 1940, Serial No. 323,774
5 Claims. (Cl. 98—62)

1. A ventilator of the character described, comprising a bottom plate adapted to fit over a pipe, said ventilator including a hood arranged over said bottom plate and surrounding said pipe, said hood being cone-shaped and spaced from said bottom plate, an inner hood connected with said bottom plate and contacting said pipe for providing an annular upwardly inclined space and for deflecting horizontally moving air upwardly to the top of said pipe, and tubular means mounted on the upper end of said hood above the top of the pipe, said tubular means including a closure member adapted to be adjusted so that when it is in its raised position the air will move to a discharge point upwardly and



when in its lowered position the air will move downwardly through said pipe.

2,287,744
CONDUCTIVE FOOTWEAR
Leo J. Monahan, Humboldt, Tenn., assignor to O'Donnell Shoe Company, Humboldt, Tenn., a corporation of Minnesota
Application October 8, 1941, Serial No. 414,172
3 Claims. (Cl. 175—264)

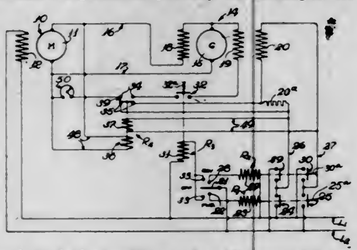


1. A conductive overshoe adapted to be worn over an ordinary non-conductive shoe comprising in combination, a bottom sole formed of relatively soft resilient material which offers a relatively high resistance to passage of electrical charges, said sole having a toe portion and a heel portion, a heel piece secured to the heel portion and extending upwardly therefrom, said heel piece being also formed of such conducting material and making electrical contact with the sole portion, and a flexible fastening strap electrically connected to the heel piece and adapted to be tied around the ankle of the user, above the non-conductive shoe, said strap being also formed of such conducting material whereby static electrical charges gathered in the human body are shunted around the non-conductive shoe by being passed through the strap, heel piece and bottom sole.

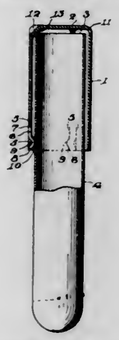
2,287,745
MOTOR CONTROL SYSTEM
Richard J. Morawetz, Elm Grove, Wis.
Application September 29, 1939, Serial No. 297,085
4 Claims. (Cl. 172—239)

4. In a control apparatus for a Ward Leonard system including a motor operated from means comprising a generator having a separately excited field and a shunt field, the combination of a reversing switch mechanism for controlling

the application of voltage to said separately excited generator field to start and stop the generator and reverse the output voltage thereof, means including a normally closed first switch operable when said switch is open to diminish the potential applied to the separately excited field, means including a second switch associated with the generator shunt field circuit and operable when said switch is open to reduce the potential applied to the generator shunt field, and means responsive jointly to changes in motor speed and the setting of said reversing switch mechanism for closing said second switch and opening said first switch in response to acceleration of the motor from rest to a speed exceeding a predetermined value and thereafter maintaining said switches in such condition irrespective of subsequent changes in motor speed so long as said reversing switch mechanism is not again actuated and for opening said second switch and closing said first switch in response to a subsequent change in the setting of said reversing switch mechanism.

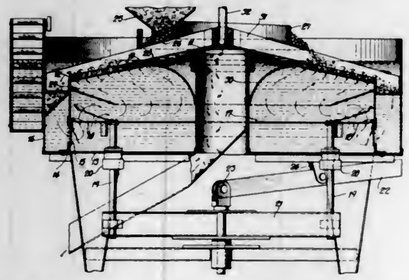


2,287,746
TEST TUBE CLOSURE
Harry E. Morton, Drexel Hill, Pa.
Application August 19, 1939, Serial No. 290,964
2 Claims. (Cl. 215—38)



1. The combination of a test tube for use in microbiological work, having an open end portion of uniform diameter, with an elongated cap comprising a cylindrical wall, slightly larger than the end portion of said tube over which said cap telescopes, and an end wall in slightly spaced relation with respect to the open end of said tube, circumferentially spaced resilient means carried by said cap to uniformly space and prevent tilting of said cap with respect to said tube, and circumferentially spaced ribs extending at an angle of substantially 45° with and connecting said cylindrical and end walls of said cap and engaging the circular edge of the open end of said tube, to positively center and provide a substantially uniform capillary space between said cap and both the sides and the end of said tube, and through which space gasses are free to pass into and from said tube.

2,287,747
APPARATUS FOR SEPARATING SOLIDS OF DIFFERENT GRAVITIES
Frank Pardee, Hazleton, Pa., assignor to Anthracite Separator Company, Hazleton, Pa., a corporation of Pennsylvania
Application March 8, 1940, Serial No. 322,883
13 Claims. (Serial No. 209—456)



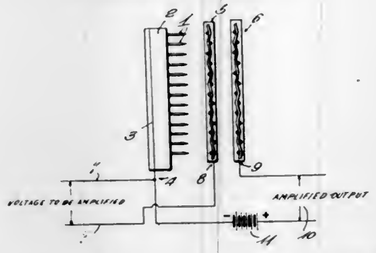
1. Apparatus of the type described which comprises a material-supporting plate permeable to fluid and having an upper central discharge opening and a peripheral discharge edge, and being inclined radially between said opening and said edge, a spirally positioned scraper movable on the surface of said plate, means to rotate said scraper about a central axis to move material upwardly on said plate toward said central discharge opening, means to supply material to be supported to the upper surface of said plate in an annular path intermediate to said opening and said discharge edge, means to circulate fluid upwardly and outwardly through said plate to buoy the lighter material over said scraper toward the outer end of said plate, and means to prevent the flow of said fluid through a part of said plate above the annular feed path.

2,287,748
APPARATUS FOR SEPARATING SOLIDS OF DIFFERENT GRAVITIES
Frank Pardee, Hazleton, Pa., assignor to Anthracite Separator Company, Hazleton, Pa., a corporation of Pennsylvania
Application February 25, 1941, Serial No. 380,470
6 Claims. (Cl. 209—456)



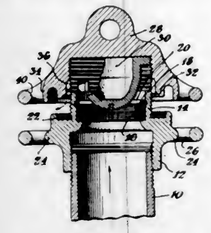
1. Apparatus for separating solids of different densities which comprises a supporting conical perforated separating plate, means for buoying fluid through said plate and over the lower edge thereof, means to deposit materials to be separated in an annular zone between said upper and lower edges, a scraper to move said material toward the upper part of said plate, said scraper having an undulating upper edge to provide areas that permit formation of deeper strata of the separated materials followed by periods where the scraper height is lower and the buoying surge of the fluid downwardly over the plate is increased rapidly to remove the separated upper stratum.

2,287,749
METHOD AND APPARATUS FOR AMPLIFYING ELECTRICAL CURRENTS
Games Slayter, Newark, Ohio, assignor to Slayter Electronic Corporation, a corporation of Ohio
Application February 12, 1938, Serial No. 190,307
Renewed March 29, 1940
14 Claims. (Cl. 179—171)



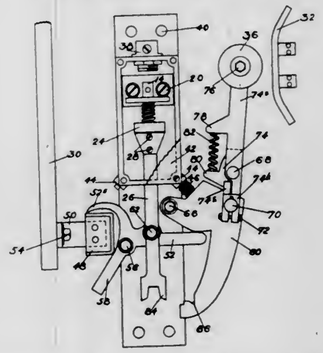
1. An electric discharge system comprising, in atmospheric air, a stream-lined discharge electrode including a multiplicity of discharge points, a screen-like control electrode disposed adjacent said discharge points, a screen-like receiving electrode aligned with said discharge points and spaced from said screen-like control electrode, said stream-lined and screen-like electrodes being unobstructive to the passage of air in the operation of said system, an input circuit connected between said plurality of discharge points and said control electrode, and an output circuit connected between said receiving electrode and said plurality of discharge points.

2,287,750
FILL PIPE CAP
William B. Clayton, Waco, Tex.
Application October 30, 1939, Serial No. 301,875
3 Claims. (Cl. 220—29)



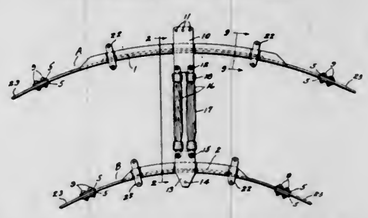
1. A pipe closure comprising a seat member adapted to be screwed onto a pipe, having a threaded portion to receive a cap and having a resilient washer inside of said threaded portion and a fibrous washer outside of said threaded portion, a cap adapted to be screwed onto said seat member, having a rigid internal projection adapted to contact with said resilient washer at an acute angle to the axis of the pipe so that contact between said rigid projection and said resilient washer will be maintained throughout a substantial axial movement of said cap and having a ring adapted to contact with said fibrous washer on a line substantially transverse the axis of the pipe, whereby said fibrous washer may be positively compressed while contact is being maintained between said rigid projection and said resilient washer to the end that a closure will be had comprising two lines of contact with an entirely enclosed space between them.

2,287,751
INTERLOCK FOR ELEVATOR DOORS
Emory W. Fenn, Chicago, Ill.
Application September 27, 1940, Serial No. 358,693
12 Claims. (Cl. 187—31)



1. Interlocks for elevator doors having an electrical circuit, a circuit breaker, means for actuating the circuit breaker, said means comprising a rod, a forked lever arm, a flat plate cooperating with the forked end of the lever arm, locking means for the circuit breaker and door, said locking means comprising a rocker arm engaging the rod, means for actuating the locking means, said means comprising a two-piece pivotally joined extension arm adjustably secured to said rocker arm at one end and having a roller on its opposite end.

2,287,752
TROLLEY WIRE SUPPORT
Samuel S. Matthes, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application December 31, 1935, Serial No. 56,973
Renewed November 13, 1939
22 Claims. (Cl. 191—33)



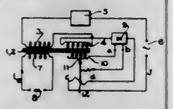
1. A trolley wire support comprising an elongated body forming a segment of a circle and having two portions at substantially right angles to each other, one of the portions forming an arcuate brace to hold the other portion in shape against strains tending to distort the same, a flange secured to the said second portion and forming with the said first portion a groove to receive a trolley wire, the said second portion extending beyond the ends of the said first portion, spaced means secured to and forming a channel at each end of the second portion to receive the trolley wire, and a hold-down member at each end of the said second portion and secured to the spaced means to depress the trolley wire and hold it in alignment with an edge of the second portion, and means attached to the body for attachment to supporting wires.

2,287,753
UNIFORM
Raymond P. Neitzel, Troy, N. Y., assignor to Marvin-Neitzel Corporation, Troy, N. Y., a corporation of New York
Application March 16, 1939, Serial No. 262,256
1 Claim. (Cl. 2—74)



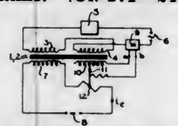
In a nurse's uniform, the combination of a waist and skirt, said waist comprising a shoulder, back and front side portions, the side edges of said front portions being spaced, a bib portion terminating adjacent the waistline and having its side edges overlapping and secured to the edges of said front side portions, said bib portion having a cut-out at the top forming a neck opening, a top side edge of said bib being secured adjacent the shoulder of said waist, said waist portion in back having an integral central skirt forming extension, gathers in the said waist portion and skirt forming extension at the waistline, a complementary skirt forming member secured to the side edges of said extension and to the lower edges of said waist and bib, and an adjustable belt stitched to a portion of the complementary skirt portion and covering the line of connection between said skirt section and waist.

2,287,754
POWER AMPLIFIER
Gustav Barth, Berlin, Germany, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany, a corporation of Germany
Application April 3, 1940, Serial No. 327,702
In Germany November 30, 1938
8 Claims. (Cl. 171—242)



1. A magnetic amplifier comprising a magnetizable core carrying a pair of windings connected in series opposed relation, a source of alternating current connected to energize said pair of windings, means for rectifying the output current of said windings, a direct current input circuit including a third winding on said core whereby during current flow in said third winding the permeability of said core is decreased thus causing an increase in the output current of said pair of windings, a feed back circuit comprising a fourth winding for said core electrically connected to the output of said rectifying means for aiding the effect of the third winding in additionally decreasing the permeability of said core in accordance with the output current of said pair of windings, and control means in said feed back circuit traversed by the output current of said rectifying means for modifying the effect of said fourth winding on said core.

2,287,755
POWER AMPLIFIER
Gustav Barth, Berlin, Germany, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany, a corporation of Germany
Application April 26, 1940, Serial No. 331,874
In Germany November 30, 1938
7 Claims. (Cl. 171—242)

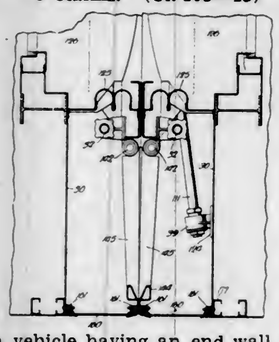


1. A magnetic amplifier comprising a magnetizable core carrying a pair of windings connected in series opposed relation, a source of alternating current connected to energize said pair of windings, means for rectifying the output current of said windings, a direct current input circuit including a third winding on said core whereby during current flow in said third winding the reactance and output current of said pair of windings are varied, feed back means for said core for additionally varying the reactance of said pair of windings in accordance with the output current of the rectifying means, and control means electrically connected with said feed back means and said rectifying means and energized by the current flowing in the direct current input circuit for controlling the effect of said feed back means on said core as a function of the current flowing in said direct current input circuit.

2,287,756
CONDENSATION PRODUCT OF THE UREA-FORMALDEHYDE TYPE
Alfred Brookes, London, England, assignor, by mesne assignments, to American Cyanamid Company, New York, N. Y.
No Drawing. Application April 27, 1940, Serial No. 332,101. In Great Britain January 27, 1939
8 Claims. (Cl. 260—71)

1. A hardenable urea-formaldehyde condensation product mixed with about 10% of melamine.
2. A hardenable urea-formaldehyde condensation product mixed with 2–5% of a melamine salt.

2,287,757
VEHICLE DIAPHRAGM
Andrew Christianson, Hammond, Ind., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application October 19, 1940, Serial No. 361,980
9 Claims. (Cl. 105—15)

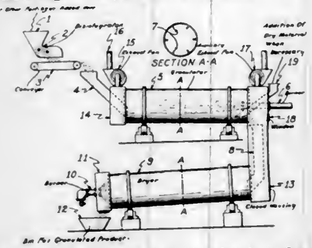


1. In a vehicle having an end wall, an inherently elastic diaphragm extending at right angles outwardly from the vehicle end wall, diaphragm supporting means for the free edge of the diaphragm connected to said vehicle and adapted to have longitudinal movement with relation thereto and being maintained spaced from the end wall at a variable distance dependent upon said longitudinal movement of said supporting means with respect to said vehicle, the diaphragm being supported along one of its edges in fixed relation to the vehicle end wall and held under initial tension between said vehicle and the cooperating diaphragm supporting means, and secured at its opposite edges by independent and separate clamping means embracing the marginal portions only o fthe diaphragm and leaving the diaphragm imperforate.

2,287,758
PROCESS FOR THE PRODUCTION OF DICALCIUM PHOSPHATE
Edward J. Fox, Washington, D. C.
No Drawing. Application January 14, 1941, Serial No 374,357
4 Claims. (Cl. 23—108)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

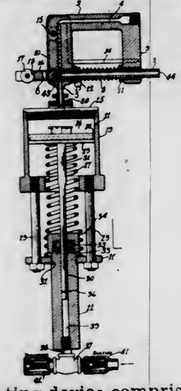
1. The process for producing dicalcium orthophosphate comprising heating monocalcium chlorophosphate, substantially free of calcium chloride, in an atmosphere of steam, until decomposition to hydrochloric acid gas and solid dicalcium orthophosphate is substantially complete, removing the hydrochloric acid gas and recovering the dicalcium orthophosphate.

2,287,759
PROCESS FOR THE GRANULATION OF FERTILIZERS
John O. Hardesty, Arlington, Va., and William H. Ross and Kenneth D. Jacob, Washington, D. C., assignors to Henry A. Wallace, as Secretary of Agriculture of the United States of America, and his successors in office
Application March 15, 1940, Serial No. 324,016
10 Claims. (Cl. 71—40)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A continuous process for producing fertilizer granules of predetermined physical structure and substantially uniform size and shape, directly from superphosphate, which comprises, mechanically disintegrating the superphosphate, thence screening this disintegrated material, thence subjecting a continuous stream of the disintegrated, screened material to cascading action in the presence of a non-drying atmosphere, the while heating the material to such a temperature between 60° C. and 100° C. and maintaining a respective and substantially constant solution phase content in the material between 20.9% and 15.9% in correlation with said temperature as will engender a fluidity of the solution phase to cause agglomeration of the fine particles and form granules of uniform size and to prevent agglomeration of the large particles at any stage during the cascading action, thence allowing the continuous flow of the agitated mass to fall directly into a cooling medium, thereby causing a rapid congealing and drying of the surfaces of the resulting granules, and preventing further agglomeration, and maintaining uniformity in size and structure.

2,287,760
LUBRICATOR
Patrick K. Hicks, Columbus, Ohio
Application June 22, 1939, Serial No. 280,587
3 Claims. (Cl. 221—47.1)

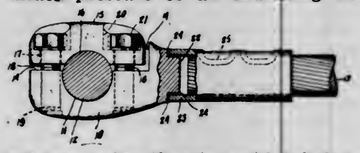


1. A lubricating device comprising means forming a lubricant receiving chamber, a plunger reciprocable therein, an air cylinder fixedly attached to said chamber-forming means, a piston reciprocable therein and fixedly connected to said plunger, a manually operable control valve having a substantially U-shaped body to provide a carrying handle for the device, means mounting said valve upon said cylinder having a cylinder-connecting conduit therein, said handle having a cored passageway providing an inlet passage for admitting air under pressure and conducting said air through said handle into said cylinder-connecting conduit, a manually reciprocable rod journaled transversely of and within the legs of the U-shaped handle for intersecting said passageway, said rod having a bore therein for interconnecting the intersected portions of said passageway when said rod is in one position, and having another bore therein adapted to connect said cylinder-connecting conduit to the atmosphere when said rod is in another position, said rod being adapted to seal off said inlet passageway when said rod is in said other position.

2,287,761
ELECTRICAL CABLE CONNECTOR
Irving Frederick Matthysse, New York, N. Y., assignor to Burndy Engineering Company, Inc., a corporation of New York
Application July 17, 1940, Serial No. 345,871
1 Claim. (Cl. 173—269)

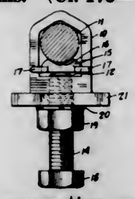
An electrical connector for electrically and mechanically joining cables, comprising a connector body having means at one end thereof for mechanically clamping a cable thereto, and made of metal having a high tensile strength for obtaining high strength in the clamping means; and a tubular sleeve of malleable metal, extend-

ing from said connector body, and adapted to flow under pressure of an indenting tool, for



connecting a cable thereto, said tubular sleeve rigidly attached to the connector body to form an integral unitary structure therewith.

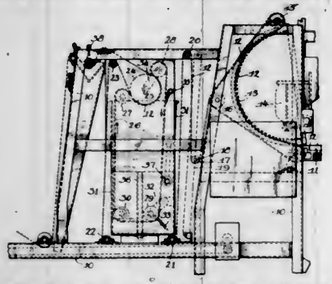
2,287,762
CURRENT TRANSFORMER TERMINAL CONNECTOR
Julian Rogoff, New York, N. Y., assignor to Burndy Engineering Company, Inc., a corporation of New York
Application July 25, 1939, Serial No. 286,335
2 Claims. (Cl. 173—269)



1. An electrical connection comprising a rigid tubular connector body; a stationary plate, said connector body provided with an inner cable engaging surface, and an outer plate engaging surface; a pressure bar within said body guided by the walls of said body and provided with a cable engaging surface; a pressing and supporting screw threaded through the plate engaging surface of said body and projecting through the stationary plate to press the pressure bar against the cable within the connector body and to support the cable, the pressure bar, and the connector body on the stationary plate, said screw having a length sufficient to grip a cable of minimum diameter and extend through the stationary plate; and a nut positioned on said screw for simultaneously locking the screw against rotation and the connector body to the stationary plate.

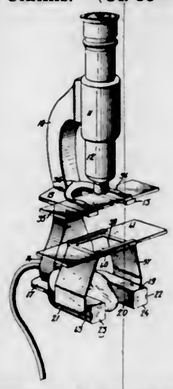
2,287,763
MACHINE FOR DEVELOPING BLUEPRINTS
Harold J. Brunk, Chicago, Ill., assignor to The C. F. Pease Company, a corporation of Delaware
Original application January 21, 1939, Serial No. 252,203, which is a division of application Serial No. 11,142, March 14, 1935. Divided and this application January 31, 1941, Serial No. 376,869
8 Claims. (Cl. 95—75)

1. A blue print machine comprising a printing station and a washing station and means for feeding a band of blue print paper past said stations with its sensitized side exposed thereto, and an intermediate moisture applying station comprising an endless belt of absorbent material, a water tank into which said belt dips while traveling and means for pressing the coated side



of said blue print paper against said endless belt above the water level whereby said blue print paper is moistened insufficiently to cause discoloration of the white areas.

2,287,764
MICROSCOPE AND ILLUMINATED STAND THEREFOR
Jacques L. Gary, Bronx, N. Y., assignor to Robert Gary, Bronx, N. Y.
Application March 13, 1940, Serial No. 323,691
4 Claims. (Cl. 88—39)



1. In an assembly of the class described comprising a metal stand including an upper portion having means for carrying a microscope tube, a back base portion below the upper portion and having therein an opening, a lamp socket disposed in the opening and having a forwardly projecting light bulb, the filament of the bulb being optically axial with the microscope tube, feet extending from the back portion on opposite sides of the bulb, said feet having grooves therein, a sheet metal clip having flanges grippingly disposed in the grooves, said clip having an open top, and a light diffusing glass carried by said top over its opening.

DESIGNS

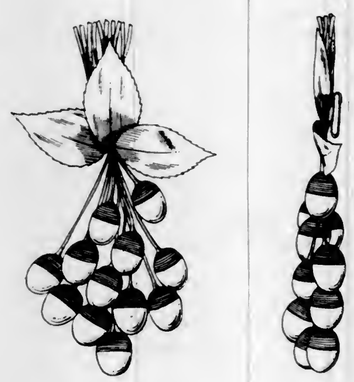
JUNE 23, 1942

132,839
DESIGN FOR A NOVELTY PIN
Samuel J. Blume, Brooklyn, N. Y.
Application May 12, 1942, Serial No. 106,876
Term of patent 3½ years



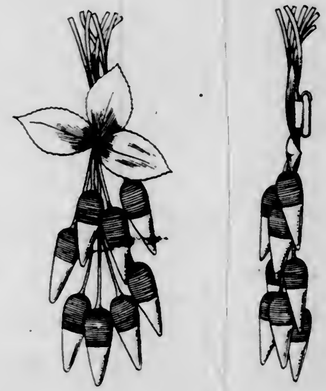
The ornamental design for a novelty pin, substantially as shown.

132,840
DESIGN FOR A NOVELTY PIN
Samuel J. Blume, Brooklyn, N. Y.
Application May 12, 1942, Serial No. 106,877
Term of patent 3½ years



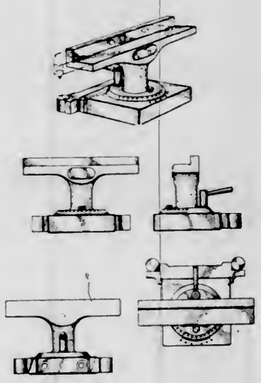
The ornamental design for a novelty pin, substantially as shown.

132,841
DESIGN FOR A NOVELTY PIN
Samuel J. Blume, Brooklyn, N. Y.
Application May 12, 1942, Serial No. 106,878
Term of patent 3½ years



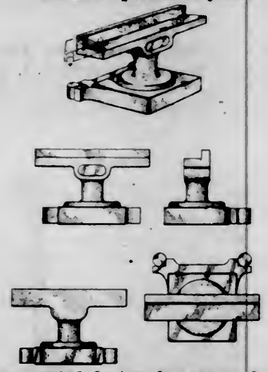
The ornamental design for a novelty pin, substantially as shown.

132,842
DESIGN FOR AN ANGLE DRESSER FOR ABRADING ELEMENTS
Earl G. Goehle, Huntington Woods, Mich.
Application February 19, 1942, Serial No. 105,896
Term of patent 7 years



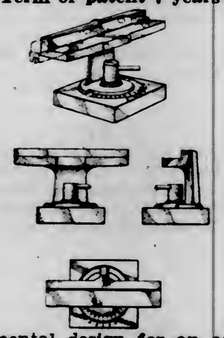
The ornamental design for an angle dresser for abrading elements, substantially as shown and described.

132,843
DESIGN FOR AN ANGLE DRESSER FOR ABRADING ELEMENTS
Earl G. Goehle, Huntington Woods, Mich.
Application February 19, 1942, Serial No. 105,897
Term of patent 7 years



The ornamental design for an angle dresser for abrading elements, substantially as shown and described.

132,844
DESIGN FOR AN ANGLE DRESSER FOR ABRADING ELEMENTS
Earl G. Goehle, Huntington Woods, Mich.
Application May 21, 1942, Serial No. 106,971
Term of patent 7 years



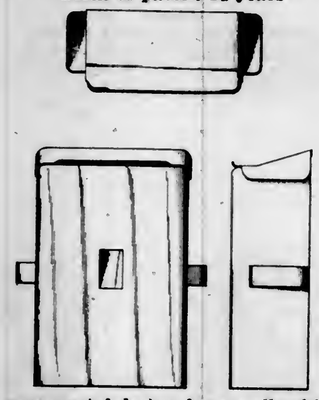
The ornamental design for an angle dresser for abrading elements, substantially as shown and described.

132,845
DESIGN FOR A BROOCH
Bertha J. Hansen, Rutherford, N. J.
Application April 21, 1942, Serial No. 106,646
Term of patent 7 years



The ornamental design for a brooch, as shown.

132,846
DESIGN FOR A WALL CABINET
Philip D. Parsons, Swarthmore, Pa., assignor to Scott Paper Company, Chester, Pa., a corporation of Pennsylvania
Application October 6, 1941, Serial No. 103,666
Term of patent 14 years



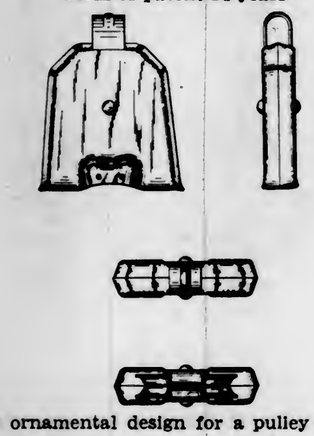
The ornamental design for a wall cabinet, substantially as shown.

132,847
DESIGN FOR A POSTER OR SIMILAR ARTICLE
Creed W. Rinehart, Dayton, Ohio
Application January 2, 1942, Serial No. 104,973
Term of patent 3½ years



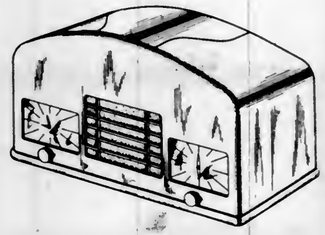
The ornamental design for a poster or similar article substantially as shown.

132,848
DESIGN FOR A PULLEY BLOCK
Henry Auslander, Brooklyn, N. Y.
Application March 19, 1942, Serial No. 106,251
Term of patent 14 years



The ornamental design for a pulley block, as shown.

132,849
DESIGN FOR A RADIO CABINET
Natalie A. Allo, Escanaba, Mich.
Application January 26, 1942, Serial No. 105,448
Term of patent 14 years

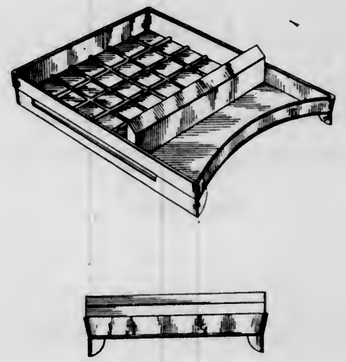


The ornamental design for a radio cabinet, as shown and described.

132,850
DESIGN FOR A PRESSING IRON STAND
William M. Cissell, St. Mathews, near Louisville, Ky.
Application October 13, 1941, Serial No. 103,752
Term of patent 14 years

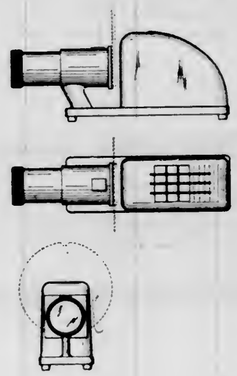
The ornamental design for a pressing iron stand, as shown.

132,851
DESIGN FOR A HAIRPIN TRAY OR THE LIKE
Carla B. Cooper, Los Angeles, Calif.
Application August 2, 1941, Serial No. 102,653
Term of patent 3½ years



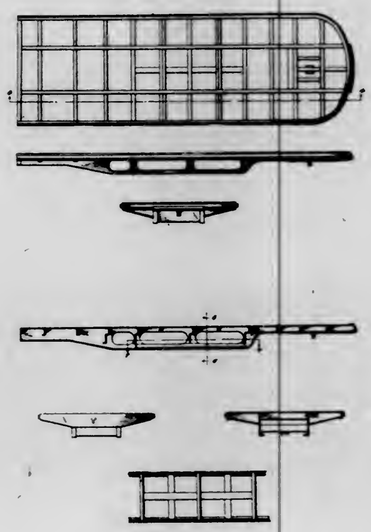
The ornamental design for a hairpin tray or the like, substantially as shown.

132,852
DESIGN FOR A PROJECTOR
Gustave Fassin, Ann Arbor, Mich.
Application November 10, 1941, Serial No. 104,101
Term of patent 14 years



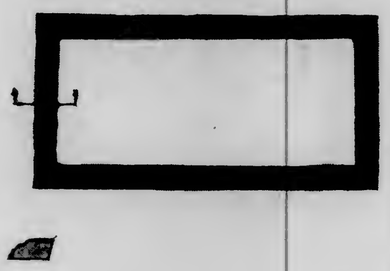
The ornamental design for a projector, substantially as shown and described.

132,853
DESIGN FOR AN OPEN WEB TRAILER FRAME
James Madison Foster, Memphis, Tenn.
Application July 19, 1941, Serial No. 102,296
Term of patent 14 years



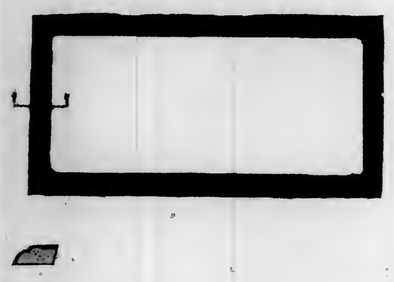
The ornamental design for an open web trailer frame, as shown.

132,854
DESIGN FOR A MEMORIAL GRAVE MARKER
Otto H. Harer, Painesville, Ohio
Application November 24, 1941, Serial No. 104,283
Term of patent 14 years



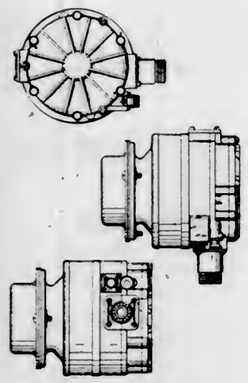
The ornamental design for a memorial grave marker, as shown.

132,855
DESIGN FOR A MEMORIAL GRAVE MARKER
Otto H. Harer, Painesville, Ohio
Application November 24, 1941, Serial No. 104,284
Term of patent 14 years



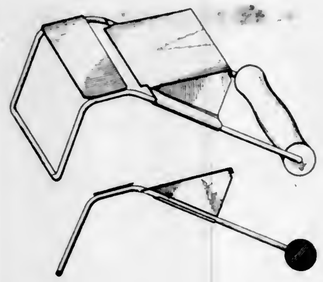
The ornamental design for a memorial grave marker, as shown.

132,856
DESIGN FOR AN ENGINE STARTER
Ralph M. Heintz, Cleveland, Ohio, assignor to Jack & Heintz, Inc., Bedford, Ohio
Application February 23, 1942, Serial No. 105,955
Term of patent 14 years



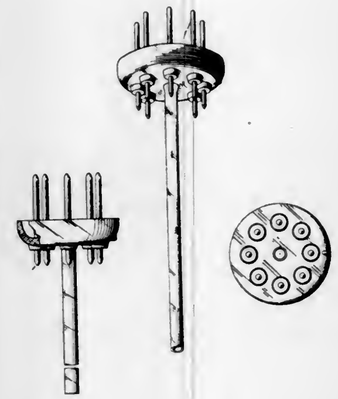
The ornamental design for an engine starter, as shown.

132,857
DESIGN FOR A SLICER
Robert W. Linenfelser, Monroe, Mich.
Application May 17, 1941, Serial No. 100,999
In Canada April 10, 1941
Term of patent 14 years



The ornamental design for a slicer, as shown and described.

132,858
DESIGN FOR A STEM BASE FOR AN ELECTRON TUBE OR SIMILAR ARTICLE
Carl F. Miller, Austin, Pa., assignor to Hygrade Sylvania Corporation, Salem, Mass., a corporation of Massachusetts
Application May 16, 1940, Serial No. 92,400
Term of patent 14 years



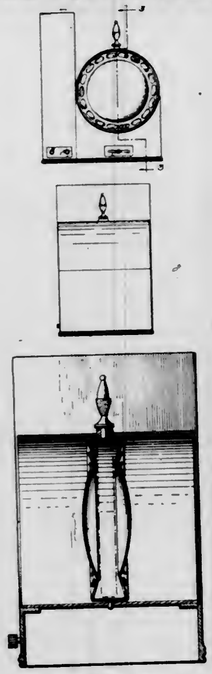
The ornamental design for a stem base for an electron tube or similar article, substantially as shown.

132,859
DESIGN FOR A SAFETY RAZOR GUARD
Carl N. Shipley, Chicago, Ill.
Application April 20, 1942, Serial No. 106,631
Term of patent 14 years



The ornamental design for a safety razor guard, substantially as shown.

132,860
DESIGN FOR A COMBINED HEARING AID AMPLIFIER AND BATTERY CASING
Christian A. Volf, Van Nuys, Calif.
Application June 22, 1940, Serial No. 93,180
Term of patent 3½ years



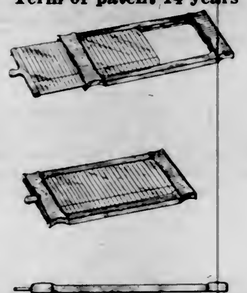
The ornamental design for a combined hearing aid amplifier and battery casing, substantially as shown and described.

132,861
DESIGN FOR A BADGE
Richard Francis Walker, Jr., New York, N. Y.
Application February 2, 1942, Serial No. 105,566
Term of patent 3½ years



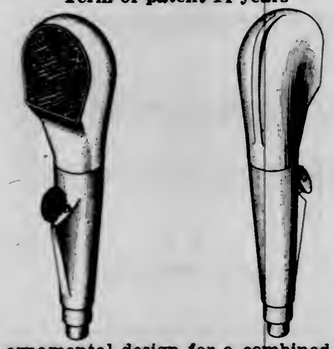
The ornamental design for a badge, substantially as shown.

132,862
DESIGN FOR A TELEPHONE REMINDER
George E. Morton, Los Angeles, Calif.
Application November 4, 1941, Serial No. 104,017
Term of patent 14 years



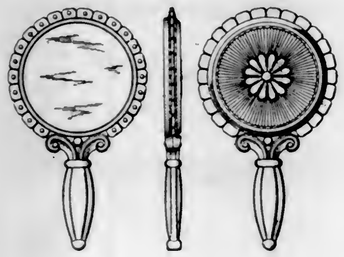
The ornamental design for a telephone reminder, as shown and described.

132,863
DESIGN FOR A COMBINED MICROPHONE AND HAND CONTROL DEVICE FOR A PHONOGRAPH
William J. O'Neil, Atlantic Beach, N. Y., assignor to Dictaphone Corporation, New York, N. Y., a corporation of New York
Application March 13, 1942, Serial No. 106,195
Term of patent 14 years



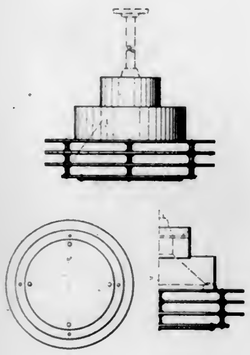
The ornamental design for a combined microphone and hand control device for a phonograph, substantially as shown.

132,864
DESIGN FOR A HAND MIRROR
Irving W. Rice, New York, N. Y.
Application May 9, 1942, Serial No. 106,838
Term of patent 3½ years



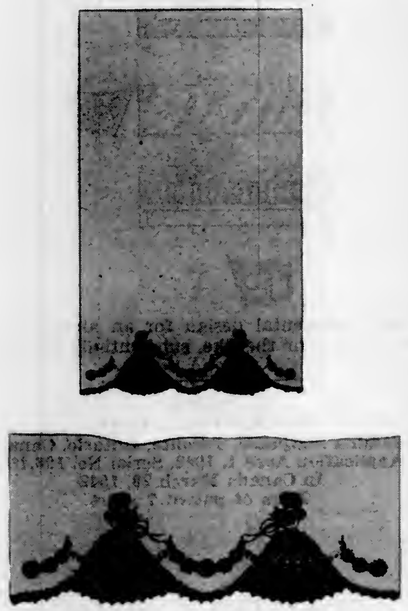
The ornamental design for a hand mirror, substantially as shown.

132,865
DESIGN FOR A SOUND REPRODUCER OR THE LIKE
Kyle M. Drollinger, Wichita Falls, Tex., assignor to Herbert W. Carpenter, Wichita Falls, Tex.
Application February 9, 1942, Serial No. 105,727
Term of patent 3½ years



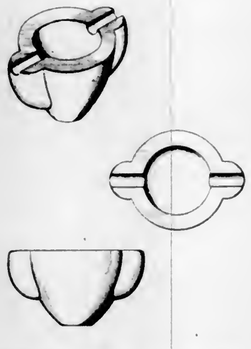
The ornamental design for a sound reproducer or the like, substantially as shown.

132,866
DESIGN FOR AN EMBROIDERED TEXTILE FABRIC OR LIKE ARTICLE
Morris E. Darrish, St. Louis, Mo.
Application December 15, 1941, Serial No. 104,629
Term of patent 14 years



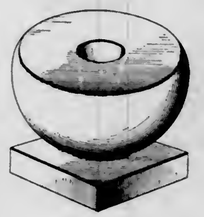
The ornamental design for an embroidered textile fabric or like article, substantially as shown.

132,867
DESIGN FOR AN ASH TRAY
Charles W. Sawyer, Toledo, Ohio, assignor to Libbey Glass Company, Toledo, Ohio, a corporation of Ohio
Application September 25, 1941, Serial No. 103,491
Term of patent 7 years



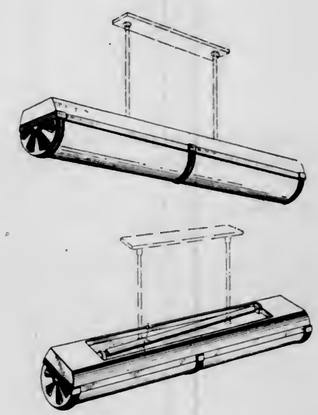
The ornamental design for an ash tray, substantially as shown.

132,868
DESIGN FOR A CANDLESTICK HOLDER
Charles W. Sawyer, Toledo, Ohio, assignor to Libbey Glass Company, Toledo, Ohio, a corporation of Ohio
Application September 25, 1941, Serial No. 103,488
Term of patent 7 years



The ornamental design for a candlestick holder, substantially as shown.

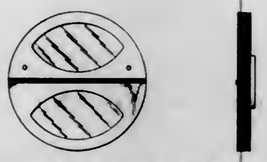
132,869
DESIGN FOR A FLUORESCENT LUMINAIRE
Frederic C. Winkler, Lakewood, and Carl F. Haas, Cleveland, Ohio, assignors to Westinghouse Electric & manufacturing Company, a corporation of Pennsylvania
Application January 29, 1941, Serial No. 98,506
Term of patent 14 years



The ornamental design for a fluorescent luminaire, as shown and described.

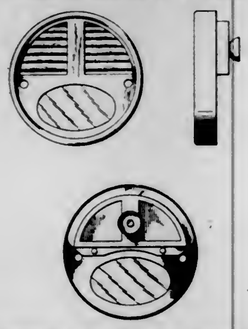
132,870
DESIGN FOR A BLACK-OUT UNIT FOR TAILLIGHT LENS
Walter C. Thee, United States Army
Application February 2, 1942, Serial No. 105,600
Term of patent 3½ years





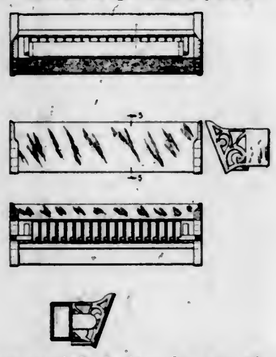
The ornamental design for a black-out unit for taillight lens, as shown.

132,871
DESIGN FOR A BLACK-OUT UNIT FOR A COMBINATION TAILLIGHT, AND SERVICE AND STOPLIGHT LENS
Walter C. Thee, United States Army
Application January 22, 1942, Serial No. 105,367
Term of patent 3½ years



The ornamental design for a black-out unit for a combination taillight, and service and stop light lens, as shown.

132,872
DESIGN FOR AN AIR STERILIZING LAMP FIXTURE OR THE LIKE
Meyer B. Cherniak, New York, N. Y.
Application June 28, 1941, Serial No. 101,795
Term of patent 7 years



The ornamental design for an air sterilizing lamp fixture or the like, substantially as shown.

132,873
DESIGN FOR A DOLL
Adamina McQuhae, Toronto, Ontario, Canada
Application April 1, 1942, Serial No. 106,420
In Canada March 20, 1942
Term of patent 7 years



The ornamental design for a doll, as shown.

THE
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CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

CONTENTS

	Page
ISSUE OF JUNE 30, 1942	955
NOTICE OF CANCELLATION	955
BRIEFS IN APPEALED CASES	955
ADJUDICATED PATENTS	955
NOTICE	956
APPLICATIONS UNDER EXAMINATION	956
DECISIONS OF THE U. S. COURTS—	
Mishawaka Rubber and Woolen Manufacturing Company v. S. S. Kresge Company	957
Milcor Steel Company v. George A. Fuller Company, Neff Lathing Company, Inc., and Conver Steel and Wire Co., Inc.	959
In re Guthans	961
DISCLAIMERS	963
BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS	964
TRADE-MARKS PUBLISHED (119 APPLICATIONS)	973
TRADE-MARK REGISTRATIONS GRANTED	988
REISSUES	999
PLANT PATENTS	999
PATENTS GRANTED	1198
DESIGNS	

June 30, 1942

Trade-Marks	211—No.	396,061 to No.	396,271, inclusive.
Reissues	2—No.	22,126 to No.	22,127, inclusive.
Plant Patents	3—No.	523 to No.	530, inclusive.
Patents	824—No.	2,287,765 to No.	2,288,588, inclusive.
Designs	67—No.	132,874 to No.	132,940, inclusive.
Total	1,107		

Notice of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., June 4, 1942.*

Bascom Beshong Company, Inc., its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Royal Manufacturing Company, Allentown, Pennsylvania, to effect the cancellation of registration No. 255,057, issued April 9, 1929, to Bascom Beshong Company, Inc., 115 Center Street, Malden, Massachusetts, and a notice of such proceeding sent by registered mail to said Bascom Beshong Company, Inc., at said address having been returned by the post office as undeliverable, notice is hereby given that unless said Bascom Beshong Company, Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Briefs in Appealed Cases

All briefs filed in this Office should have conspicuously printed thereon a statement designating the particular tribunal of the Patent Office to which the brief is addressed.

Adjudicated Patents

(D. C. Ill.) Tupper patent, No. 1,585,318, for Time-controlled electric signaling device, claim 11 *Held* valid and infringed. *Universal Neon Equipment Co.* v. *Brefeld*, 44 F. Supp. 473.

(D. C. Ill.) Tupper patent, No. 1,585,319, for Periodic electric signaling device, claim 19 *Held* valid and infringed. *Id.*

(C. C. A. Md.) Ericson patent, No. 1,940,406, for Paper drinking cup, *Held* invalid. *Connecticut Paper Products* v. *New York Paper Co.*, 127 F.(2d) 423.

(C. C. A. Mass.) Anderson patent, No. 1,950,588, for Windshield wiper or the like, claims 1 to 5 *Held* invalid. *Anderson Co.* v. *Lion Products Co.*, 127 F.(2d) 454.

(D. C. Mass.) Borders patent, No. 1,967,858, for Friction stop for bowling alleys, claim 1 *Held* invalid. *Borders* v. *Ray*, 44 F. Supp. 478.

(D. C. Mich.) Meikle patent, No. 1,977,521, for Apparatus for producing combustion, *Held* invalid and not infringed. *Meikle* v. *Timken-Detroit Axle Co.*, 44 F. Supp. 460.

(D. C. Ill.) McIlvaine patent, No. 2,040,753, for Electric ray producing device, claim 5 *Held* invalid. *McIlvaine Patent Corporation* v. *Walgreen Co.*, 44 F. Supp. 530.

(D. C. Ill.) McIlvaine patent, No. 2,060,584, for Electric light, claim 1 *Held* invalid. *Id.*

(C. C. A. Md.) Emerson patent, No. 2,206,838, for Dispensing, *Held* invalid. *Connecticut Paper Products* v. *New York Paper Co.*, 127 F.(2d) 423.

(C. C. A. Md.) Emerson design patent, No. 118,578, for Design for a paper cup dispenser, *Held* invalid. *Id.*

(D. C. Mich.) Meikle reissue patent, No. 20,939, for Apparatus for producing combustion, *Held* invalid and not infringed. *Meikle* v. *Timken-Detroit Axle Co.*, 44 F. Supp. 460.

NOTICE

Board of Appeals—Decisions—Time for Response

U. S. PATENT OFFICE, *Washington, January 28, 1935.*

There appears to be some confusion among attorneys and applicants as to the time within which action must be taken in applications following a decision of the Board of Appeals.

The decision of the Board of Appeals is "an action" in the application, and, in order to save the application from abandonment, amendment must be filed within six months from the date of that decision unless an appeal has been taken to the Court of Customs and Patent Appeals or review of the decision sought by a bill in equity under section 4915.

The Examiner will not notify the applicant of the decision of the Board of Appeals.

CONWAY P. COE,
Commissioner.

Condition of Applications Under Examination at Close of Business June 13, 1942

(Total number of applications awaiting action, excluding Trade-Mark Division, 45,339; Trade-Mark Division, 1,025. Oldest new case, Aug. 20, 1941; oldest amended, Apr. 28, 1941.)
(The dates given are 1941 except where † indicates 1942)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Oct. 2	Sept. 29	681
2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Dec. 11	Oct. 6	603
3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	†Jan. 17	†Jan. 24	571
4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating, Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	†Jan. 7	Dec. 29	478
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	†Jan. 30	†Jan. 12	380
6. LEWERS, A. M., Carbon Chemistry (part)	Oct. 6	Oct. 13	1,295
7. JARBOE, C. G., Optics; Photography	Oct. 10	Oct. 9	1,137
8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	Nov. 10	Dec. 4	694
9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Dec. 18	Dec. 6	636
10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	---	---	---
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	†Feb. 21	†Feb. 27	330
12. SPINTMAN, SAMUEL (Act.), Machine Elements; Mechanical Starters; Stop Mechanisms	†Jan. 5	Dec. 22	469
13. BORLIK, F. J., Gear Cutting, Milling, and Planting; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Sept. 13	Sept. 13	610
14. FREEHOF, H. B. (Act.), Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	†Jan. 22	†Jan. 23	596
15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Oct. 31	Oct. 28	1,134
16. SPENCER, C. J., Telegraphy; Telephony	Dec. 6	Dec. 6	605
17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Sept. 8	Sept. 6	1,011
18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Dec. 3	Nov. 14	564
19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Nov. 12	Nov. 12	614
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	Dec. 29	Dec. 18	377
21. THOMPSON, T. J., Textiles; Cloth Finishing	†Jan. 21	†Feb. 10	356
22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	Aug. 25	Aug. 25	1,829
23. BUTTNER, W. J., Registers (part)	Oct. 16	Oct. 6	222
24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Dec. 20	Dec. 22	752
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	†Jan. 14	†Jan. 15	428
26. YOUNG, R. R., Electricity, Generation; Motive Power	†Jan. 9	Dec. 31	454
27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	Oct. 18	Nov. 6	455
28. SOLYOM, H. L., Internal-Combustion Engines; Machine Elements; Cylinders and Pistons	†Jan. 8	Oct. 13	344
29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	Nov. 17	Nov. 3	603
30. McCANN, L. P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	†Mar. 5	†Mar. 6	370
31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	Dec. 16	Dec. 16	1,390
32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Dec. 8	Dec. 2	870
33. KAUFFMAN, H. E. (Act.), Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads.	Dec. 15	Dec. 17	727
34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Surface Track; Track Sanders; Draft Appliances; Signals and Indicators.	†Feb. 19	†Feb. 18	391
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Portable Receptacles	Sept. 15	Aug. 27	1,049
36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Dec. 19	Dec. 17	605
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	†Mar. 4	†Feb. 25	446
38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stoneworking; Wells; Plastic Compositions.	Dec. 4	Dec. 4	683
39. WHITNEY, F. I., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	†Jan. 27	†Jan. 29	495
40. DRUMMOND, E. J., Metallic, Wood, Paper, and Special Receptacles	Nov. 8	Nov. 8	1,396
41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	Dec. 31	Dec. 29	511
42. CUTTING, H. O., Electric Signaling	Dec. 18	Dec. 17	523
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Oct. 2	Sept. 27	900
44. HARVEY, L. P., Refrigeration	Dec. 20	†Jan. 13	301
45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Oct. 29	Nov. 19	695
46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Nov. 4	Nov. 5	743
47. KANOF, W. J., Clutches; Brakes	Oct. 20	Oct. 30	1,061
48. ROEPKE, O. B., Electricity, General Applications; Igniters	Nov. 5	Nov. 6	856
49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Dec. 4	Nov. 8	649
50. LEVIN, S., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	Nov. 8	Nov. 12	1,614
51. BACKUS, C. D., Radiant Energy (part)	†Feb. 20	†Feb. 23	421
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	†Feb. 6	†Feb. 18	305
53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Dec. 1	†Apr. 28	485
54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	†Jan. 23	†Jan. 8	526
55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	†Feb. 11	†Feb. 11	258
56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Oct. 17	Oct. 16	1,355
57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	†Jan. 14	†Feb. 5	208
58. DOWELL, E. F., Abrading; Bottles and Jars	†Feb. 9	Dec. 29	382
59. SHEPPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	Sept. 10	Sept. 12	1,549
60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	†Feb. 2	†Feb. 2	284
61. YUNGKWAI, B., Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	Nov. 18	Nov. 8	833
62. PUGH, E. C., Games; Geometrical Instruments	Nov. 13	Sept. 6	554
63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	Aug. 20	Aug. 23	1,300
64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats and Glue; Liquid Coating Compositions; Fuel.	Dec. 3	Dec. 3	1,565
65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	Dec. 11	Dec. 2	441
Trade Marks: F. A. RICHMOND	†May 7	†May 6	1,025
Designs: H. H. KALUPY	†Apr. 11	†Apr. 18	380

DECISIONS IN PATENT AND TRADE-MARK CASES

Supreme Court of the United States

MISHAWAKA RUBBER AND WOOLEN MANUFACTURING COMPANY
v.
S. S. KRESGE COMPANY

No. 649. Decided May 4, 1942

1. TRADE-MARKS—NATURE—PROTECTION.

"The protection of trade-marks is the law's recognition of the psychological function of symbols. If it is true that we live by symbols, it is no less true that we purchase goods by them. A trade-mark is a merchandising short-cut which induces a purchaser to select what he wants, or what he has been led to believe he wants. The owner of a mark exploits this human propensity by making every effort to impregnate the atmosphere of the market with the drawing power of a congenial symbol. Whatever the means employed, the aim is the same—to convey through the mark, in the minds of potential customers, the desirability of the commodity upon which it appears. Once this is attained, the trade-mark owner has something of value. If another poaches upon the commercial magnetism of the symbol he has created, the owner can obtain legal redress."

2. SAME—PROTECTION—STATUTORY RIGHT UNDER ACT OF 1905.

By the Trade-Mark Act of 1905 the right to be protected against an unwarranted use of a mark registered under that act has been made a statutory right.

3. SAME—INFRINGEMENT—ACCOUNTING OF PROFITS.

Where, in an action for infringement of a trade-mark registered under the act of 1905, infringement and damage are found, that act, in the matter of assessing profits, requires the trade-mark owner to prove only the sales of articles bearing the infringing mark.

4. SAME—SAME—SAME.

"If it can be shown that the infringement had no relation to profits made by the defendant, that some purchasers bought goods bearing the infringing mark because of the defendant's recommendation or his reputation or for any reason other than a response to the diffused appeal of the plaintiff's symbol, the burden of showing this is upon the poacher. The plaintiff of course is not entitled to profits demonstrably not attributable to the unlawful use of his mark. * * * The burden is the infringer's to prove that his infringement had no cash value in sales made by him. If he does not do so, the profits made on sales of goods bearing the infringing mark properly belong to the owner of the mark."

5. SAME—SAME—SAME.

"One who makes profits derived from the unlawful appropriation of a mark belonging to another cannot relieve himself of his obligation to restore the profits to their rightful owner merely by showing that the latter did not choose to use the mark in the particular manner employed by the wrongdoer."

ON WRIT of certiorari to the United States Circuit Court of Appeals for the Sixth Circuit. Reversed.

Mr. George L. Wilkinson (*Mr. Eugene M. Giles* with him on the brief) for Mishawaka Rubber and Woolen Manufacturing Company.

Mr. William B. Giles for S. S. Kresge Company.

Mr. Milton Handler, *Mr. Herman Shulman* and *Mr. Arthur T. Vanderbilt* filed brief on behalf of Pepsi-Cola Company as amicus curiae.

Mr. Justice FRANKFURTER delivered the opinion of the Court.

The petitioner, which manufactures and sells shoes and rubber heels, employs a trade-mark, registered under the Trade-Mark Act of 1905, 33 Stat. 724, 15 U. S. C. § 81 et seq., consisting of a red circular plug embedded in the center of a heel. The heels were not sold separately, but were attached to shoes made by the petitioner. It has spent considerable sums of money in seeking to gain the favor of the consuming public by promoting the mark as assurance of a desirable product. The respondent sold heels not made by the petitioner but bearing a mark described by the district court as

"a circular plug of red or reddish color so closely resembling that of the plaintiff [petitioner] that it is difficult to distinguish the products sold by the defendant from the plaintiff's products."

The heels sold by the respondent were inferior in quality to those made by the petitioner, and "this tended to destroy the good will created by the plaintiff in the manufacture of its superior product." Although there was no evidence that particular purchasers were actually deceived into believing that the heels sold by the respondent were manufactured by the petitioner, the district court found that there was a "reasonable likelihood" that some purchases might have been induced by the purchaser's belief that he was obtaining the petitioner's product.

"The ordinary purchaser, having become familiar with the plaintiff's trade-mark, would naturally be led to believe that the heels marketed by the defendant were the product of the plaintiff company."

Concluding that the petitioner's mark had thus been infringed, the Court enjoined future infringement and also ordered that the respondent account to the petitioner for profits made from sales

"to purchasers who were induced to buy because they believed the heels to be those of plaintiff and which sales plaintiff would otherwise have made."

Complaining of this criterion for determining the profits that improperly accrued to the respondent by reason of the infringement, the petitioner appealed to the Circuit Court of Appeals for the Sixth Circuit, which affirmed the decree. 119 F. 2d 316. Deeming the matter to present an important question under the Trade-Mark Act, we brought the case here, 315 U. S. —, solely to review the provisions of the decree dealing with the measure of profits and damages for the infringement found by the two lower courts. Whether there was such an infringement as to entitle the petitioner to the remedies provided by the Federal trade-mark laws is therefore not open here.

[1] The protection of trade-marks is the law's recognition of the psychological function of symbols. If it is true that we live by symbols, it is no less true that we purchase goods by them. A trade-mark is a merchandising short-cut which induces a purchaser to select what he wants, or what he has been led to believe he wants. The owner of a mark exploits this human propensity by making every effort to impregnate the atmosphere of the market with the drawing power of a congenial symbol.

Whatever the means employed, the aim is the same—to convey through the mark, in the minds of potential customers, the desirability of the commodity upon which it appears. Once this is attained, the trade-mark owner has something of value. If another poaches upon the commercial magnetism of the symbol he has created, the owner can obtain legal redress. And in this case we are called upon to ascertain the extent of the redress afforded for infringement of a mark registered under the Trade-Mark Act of 1905.

[2] [3] The "right to be protected against an unwarranted use of the registered mark has been made a statutory right" by that act. *Thaddeus Davids Co.* v. *Davids*, 233 U. S. 461, 471; 202 O. G. 952. Section 19 of the act provides that

"upon a decree being rendered in any such case for wrongful use of a trade-mark the complainant shall be entitled to recover, in addition to the profits to be accounted for by the defendant, the damages the complainant has sustained thereby, and the court shall assess the same or cause the same to be assessed under its direction . . .; and in assessing profits the plaintiff shall be required to prove defendant's sales only; defendant must prove all elements of cost which are claimed." [1] 33 Stat. 724, 729; 15 U. S. C. § 99.

Infringement and damage having been found, the act requires the trade-mark owner to prove only the sales of articles bearing the infringing mark. Although the award of profits is designed to make the plaintiff whole for losses which the infringer has caused by taking what did not belong to him, Congress did not put upon the despoiler the burden—as often as not impossible to sustain—of showing that but for the defendant's unlawful use of the mark, particular customers would have purchased the plaintiff's goods.

[4] [5] If it can be shown that the infringement had no relation to profits made by the defendant, that some purchasers bought goods bearing the infringing mark because of the defendant's recommendation or his reputation or for any reason other than a response to the diffused appeal of the plaintiff's symbol, the burden of showing this is upon the poacher. The plaintiff of course is not entitled to profits demonstrably not attributable to the unlawful use of his mark. Cf. *Straus* v. *Notasemc Co.*, 240 U. S. 179, 183; 226 O. G. 1433; compare *Sheldon* v. *Metro-Goldwyn Corp.*, 309 U. S. 390; *Westinghouse Co.* v. *Wagner Mfg. Co.*, 225 U. S. 604; 180 O. G. 323. The burden is the infringer's to prove that his infringement had no cash value in sales made by him. If he does not do so, the profits made on sales of goods bearing the infringing mark properly belong to the owner of the mark. *Hamilton-Brown Shoe Co.* v. *Wolf Bros.*, 240 U. S. 251; 225 O. G. 1441. There may well be a windfall to the trade-mark owner where it is impossible to isolate the profits which are attributable to the use of the infringing mark. But to hold otherwise would give the windfall to the wrongdoer. In the absence of his proving the contrary, it promotes honesty and comports with experience to assume that the wrongdoer who makes profits from the sales of goods bearing a mark belonging to another was enabled to do so because he was drawing upon the good will generated by that mark. And one who makes profits derived from the unlawful appropriation of a mark belonging to another cannot relieve himself of his obligation to restore the profits to their rightful owner merely by showing that the latter did not choose to use the mark in the particular manner employed by the wrongdoer.

The starting point of the case before us is respondent's infringement of the petitioner's trade-mark in violation of the Federal act. The decree is assailed by the petitioner because, upon its reading of the decree, it is awarded only those profits which it can affirmatively prove to have resulted from sales

"to purchasers who were induced to buy because they believed the heels to be those of plaintiff, and which sales plaintiff would otherwise have made."

We are not prepared to say that such is not a sensible reading of the language in which the decree was cast, the purpose of which was to recover profits that came to the respondent through its infringement and that in good conscience belong to the petitioner. The decree in effect requires the petitioner to prove by a procession of witnesses that when they bought heels from the infringer they had a clear, well-focussed consciousness that they were buying the petitioner's heels and that otherwise they would not have bought them. But the shoe is on the other foot. The creation of a market through an established symbol implies that people float on a psychological current engendered by the various advertising devices which give a trade-mark its potency. It is that which the Trade-Mark Act of 1905 protects. We therefore vacate the decree in order that the cause be remanded to the district court for the entry of a decree in conformity with this opinion. If the petitioner suffered damages beyond the loss of profits the decree should provide for the assessment of such damages.

Reversed.

The CHIEF JUSTICE and Mr. Justice ROBERTS took no part in the consideration or decision of this case.

Mr. Justice BLACK, dissenting, with whom Mr. Justice DOUGLAS and Mr. Justice MURPHY concur:

Mishawaka does not sell detached rubber heels. The heels bearing its mark are attached to the rubber boots and shoes it manufactures, and reach the market only as parts of these larger products. Kresge, on the other hand, sells in its retail stores detached rubber heels manufactured by others. Hence, like the courts below, I find it difficult to conclude that there were substantial probabilities of deception and that Kresge's sales took away business that might otherwise have gone to Mishawaka. In any event, the economic rivalry, if it existed at all, was so remote and indirect that an injunction alone would seem to have afforded ample relief against the infringement, found by both courts below to have been without fraudulent intent.

Moreover, upon the extensive evidence introduced by both parties, the trial court concluded that there was

"no direct proof of any ordinary purchaser being misled into believing that heels marketed by the defendant were products of the plaintiff company."

The Circuit Court of Appeals reached a similar conclusion:

"No justification is found in the record for an inference that anyone appears to have been deceived by appellee's trade-mark into purchasing its shoe heels and lifts in the belief that he was purchasing shoe heels produced by appellant." 119 F. 2d 316, 324.

If the respondent had wilfully palmed off the heels it sold as products of the petitioner, and if it had been shown that the petitioner had suffered any injury, I should agree to a decision resolving doubts about the measure of damages in favor of the petitioner. But under the circumstances of this case, I believe the effect of the decision handed down is to grant a windfall to the petitioner and to impose a penalty upon the respondent, neither of which is deserved. Finding nothing in the Trade-Mark Act of 1905 which compels such a result, I can see no abuse of discretion in the decree of the trial court which the circuit court of appeals affirmed. *Saxlehner* v. *Siegel-Cooper Co.*, 179 U. S. 42; 93 O. G. 947. Cf. *Straus* v. *Notasemc Co.*, 240 U. S. 179, 182–183; 226 O. G. 1433.

[1] The committee reports upon the bill which became the 1905 act make these observations on § 19: "By section 19 provision is made for proceedings in equity against the infringer of a registered trade-mark. This section corresponds in terms with section 4921 of the Revised Statutes relating to patent cases, except that it specially provides the manner in which profits shall be ascertained. Under existing rules it is necessary for the complainant to prove sales and costs with entire and absolute accuracy. The only persons having knowledge of making the sales are the defendant or some one in his employ. It has seemed, therefore, only fair and just that if the complainant proves the sales, the defendant should be required to produce evidence of the expenses he was put to in making such sales as an offset against the sales proven by the complainant." Sen. Rep. No. 3278, 58th Cong., 3d Sess., p. 10; H. Rep. No. 3147, 58th Cong., 3d Sess., p. 9.

Supreme Court of the United States

MILCOR STEEL COMPANY

v.

GEORGE A. FULLER COMPANY, NEFF LATHING COMPANY, INC., AND CONVER STEEL & WIRE CO., INC.

No. 720. Decided April 27, 1942

1. PATENT—CLAIMS—MEASURE OF GRANT.
   The claims of a patent, not the specifications, afford the measure of the grant to the patentee. Out of all the possible permutations of elements which can be made from the specifications the patentee reserves for himself only those contained in the claims.

2. SAME—DISCLAIMER—VALIDITY.
   Where, upon comparison of the combination covered by a patent when granted, determined by consideration of the original claims, with the combination purportedly embodied by the claims after disclaimer under Rev. Stat. § 4917, 35 U. S. C. § 65, it appears that the revised patent includes new elements which were not present in the original *Held* that the attempted disclaimers invalidated the claims.

3. SAME—SAME—SAME—TEST.
   It is no test of the validity of a disclaimer under Rev. Stat. § 4917, 35 U. S. C. § 65, that it would have a narrowing effect in that it would restrict the patent claims to cover the claimed combination only when the features described in the disclaimers were present.

4. SAME—REISSUE OR DISCLAIMER.
   "If an alteration of one of the essential elements of a claimed combination were permissible at all it would be under the reissue statute, Rev. Stat. § 4916, 35 U. S. C. § 64, which grants rights only from the date of reissue and after consideration by the Patent Office. * * * To permit such substantial alterations under the disclaimer statute which, where applicable, gives effect to the revised claims from the date of the original issue without any consideration by the Patent Office would be contrary to the policy of the patent laws. * * * It would also retroactively create possibilities of innocent infringement where no one would reasonably have suspected them to exist."

5. SAME—DISCLAIMER—VALIDITY—HOLDSWORTH PATENT NO. 2,105,770.
   Held that the courts below properly decided that the attempted disclaimers under Rev. Stat. § 4917, 35 U. S. C. § 65, of claims 6 and 7 of Holdsworth Patent No. 2,105,770, for a wall, invalidated said claims.

ON WRIT of certiorari to the United States Circuit Court of Appeals for the Second Circuit. Affirmed.

Mr. George L. Wilkinson (*Mr. Asher Blum* with him on the brief) for Milcor Steel Company.

Mr. Malcolm K. Buckley (*Mr. Conrad Christel* with him on the brief) for George A. Fuller Company, Neff Lathing Company, Inc., and Conver Steel & Wire Co., Inc.

Mr. Truman Sunderland Safford filed brief as amicus curiae.

Mr. Justice BLACK delivered the opinion of the Court.

This is a suit brought in the district court for infringement of two claims of a patent issued to one Holdsworth and assigned to the petitioner. One defense pleaded by the respondents was that Holdsworth was not the original inventor. When a patentee,

"through inadvertence, accident, or mistake, and without any fraudulent or deceptive intention . . . has claimed more than that of which he was the original or first inventor . . .",

Rev. Stat. § 4917, 35 U. S. C. § 65, preserves for him or his assignee

"all that part which is truly and justly his own, provided the same is a material or substantial part of the thing patented."

The method prescribed for saving the patent in part is "disclaimer of such parts of the thing patented" as the patentee or his assignee "shall not choose to claim." After the respondents answered, the petitioner filed disclaimers in the Patent Office with respect to the two claims in suit, purporting to narrow their scope in accordance with the statutory authorization. The defendants then moved for summary judgment on the pleadings pursuant to rules 12(*c*) and 56(*b*) of the Federal Rules of Civil Procedure. Their grounds, among others, were that the revised claims added new elements not recited in the original ones; and represented an effort to give the old patent a new scope not previously contemplated and never passed upon in the light of the prior art by the Patent Office. The district court found that the disclaimers did import new elements not included in the original claims and held that they rendered the claims invalid, relying upon our decision in *Altoona Theatres* v. *Tri-Ergon Corp.*, 294 U. S. 477, 452 O. G. 705. Ac-

cordingly, it entered summary judgment for the defendants. The circuit court of appeals affirmed. 122 F. 2d 292.

As we read the opinion of the court below, it affirms the proposition that where a disclaimer attempts to add a new element to a claim the disclaimer is invalid even though it may also make the revised claim narrower than the original. We granted certiorari because of alleged conflict with decisions on the question in other circuits.[1]

The patent in suit here is for a wall, to be used as a partition between rooms or on the inner side of the walls of the building itself. The necessary parts are a piece of metal to be fastened to the ceiling; another to be fastened to the floor; upstanding channel iron supports running between the top and bottom members; metal lathing to be fastened by wires to the skeleton wall in order that plastering may be supported.

[1] The specifications describe and drawings illustrate (1) a top angle iron member with a perforated surface or flange hanging downward so as to fit into slots at the top of the upstanding irons; (2) recesses in the base member providing a snug fit for the bottom part of the upstanding channel irons. The two claims in controversy are printed in the margin.[2] As the courts below pointed out, it is these claims, not the specifications, that afford the measure of the grant to the patentee.[3]

"Out of all the possible permutations of elements which can be made from the specifications he reserves for himself only those contained in the claims." 122 F. 2d 292, 294.

The foregoing features appearing in the specifications are not set out in the claims themselves; the claims do not indicate in any way that these features were essential parts of the combination for which the patent was issued. On the contrary, Holdsworth asserted that his specifications in general showed only a "preferred embodiment" of his invention, and with respect to the ceiling member in particular, stated: "I do not wish to be limited to an angle iron for completing the top of the metal construction."

[2] [3] The disclaimers, however, purported to make these two features essential parts of the claimed combination. One disclaimer substituted for part of one of the original general claims a description of a

"ceiling member [which] comprises a vertical depending perforated flange, one side of which is overlapped by metal lathing";

and the other disclaimer substituted for part of another original general claim a description of a

"base member . . . composed of a longitudinal strip having recesses to receive the lower ends of the webs of channel wall supports, the flanges of the channel wall supports overlapping the base members adjacent the recesses."

Limiting ourselves as we must to the original claims to determine the nature of the combination covered by the patent when it was granted, and comparing that combination with the one purportedly embodied by the claims after the disclaimer, we can only conclude that the revised patent includes new elements which were not present in the original.

The petitioner's argument is that the statute authorizes any disclaimer which actually narrows the claim, and that its disclaimer would have the requisite narrowing effect because it would restrict the claims to cover the combination only when the features described in the disclaimers were present.

But in *Altoona Theatres* v. *Tri-Ergon Corp.*, supra, 489–490, the test which the petitioner argues for here was rejected. Although this Court recognized that an effect of the disclaimer in controversy in the Altoona case was

"in one sense to narrow the claims",

it concluded that the disclaimer statute

"does not permit the addition of a new element to the combination previously claimed whereby the patent originally for one combination is transformed into a new and different one for the new combination."

The Holdsworth patent was for a structure composed of a combination of familiar elements. If there was novelty it consisted in the combination.

"A combination is always an entirety. In such cases, the patentee cannot abandon a part and claim the rest, nor can he be permitted to prove that a part is useless, and, therefore, immaterial. He must stand by his claim as he has made it. If more or less than the whole of his ingredients are used by another, such party . . . has not used the invention or discovery patented. With the change of the elements the identity of the product disappears." *Schumacher* v. *Cornell*, 96 U. S. 549, 554.

This Court has explicitly recognized that the disclaimer statute cannot be invoked to justify such a change. *Vance* v. *Campbell*, 1 Black 427, 429. And here, as in the Altoona case, the revised claims change the combination set out in the original claims. The disclaimers do more than delete a "distinct and separable matter . . . without mutilating or changing what is left standing"; they change the character of the claimed invention and are therefore unauthorized by the disclaimer statute. *Hailes* v. *Albany Stove Co.*, 123 U. S. 582, 587, 42 O. G. 95.

[4] If an alteration of one of the essential elements of a claimed combination were permissible at all it would be under the reissue statute, Rev. Stat. § 4916, 35 U. S. C. § 64, which grants rights only from the date of reissue and after consideration by the Patent Office. *Altoona Theatres* v. *Tri-Ergon Corp.*, supra, 491. To permit such substantial alterations under the disclaimer statute which, where applicable, gives effect to the revised claims from the date of the original issue without any consideration by the Patent Office would be contrary to the policy of the patent laws. In the words of Mr. Justice Bradley, it would permit "a man . . . by merely filing a paper drawn by his solicitor, [to] make to himself a new patent." *Hailes* v. *Albany Stove Co.*, supra, 587. Cf. *Brooks* v. *Fiske*, 15 How. 212, 219. It would also retroactively create possibilities of innocent infringement where no one would reasonably have suspected them to exist.

[5] The courts below properly decided that the attempted disclaimers here invalidated the claims in controversy. Accordingly, the judgment is affirmed.

[1] See, e. g., *Payne Furnace & Supply Co.* v. *Williams-Wallace Co.*, 117 F. 2d 823; *Cincinnati Rubber Mfg. Co.* v. *Stowe-Woodward, Inc.*, 111 F. 2d 239.

[2] "6. A wall construction for a room having a floor and a ceiling, said wall construction including a base member and a ceiling member, said wall construction also including upstanding wall-supports whose height is less than the maximum vertical distance between said base member and said ceiling member, said upstanding wall supports being located between said base member and said ceiling member, said wall supports being vertically movable relative to said base member and to said ceiling member when said wall supports are assembled with said base member and said ceiling member, *and means operative to prevent any substantial tilting movement of said wall supports from their predetermined upstanding position.*

"7. A wall construction for a room having a floor and a ceiling, said wall construction including a base member and a ceiling member, said wall construction also including upstanding wall-supports whose height is less than the maximum vertical distance between said base member and said ceiling member, said upstanding wall supports being located between said base member and said ceiling member, said wall supports being vertically movable relative to said base member and to said ceiling member when said wall supports are assembled with said base member and said ceiling member, *said base member and said ceiling member being shaped to provide means which are operative to prevent any substantial tilting of said wall supports from their predetermined upstanding position.*"

Italics have been added to mark those portions in which the two claims differ from each other.

[3] Rev. Stat. § 4888, 35 U. S. C. § 33, requires that the applicant for a patent "shall particularly point out and distinctly claim the part, improvement, or combination which he claims as his invention or discovery." See *Paper Bag Patent Case*, 210 U. S. 405, 419, 136 O. G. 1297; *Mahn* v. *Harwood*, 112 U. S. 354, 360–361, 30 O. G. 657.

U. S. Court of Customs and Patent Appeals

IN RE GUTHANS

No. 4,558. Decided February 24, 1942

[125 F.(2d) 722]

1. PATENTABILITY—COMMERCIAL SUCCESS.

"It is the rule that in cases where doubt as to patentability exists commercial success, when duly proven, may be given some persuasive force. * * * This rule does not apply, however, where the question of patentability is not in doubt."

2. SAME—LUBRICATING APPARATUS.

Certain claims to lubricating apparatus for the propeller shaft of watercraft and stern bearings thereof *Held* unpatentable over the prior art.

APPEAL from Patent Office. Affirmed.

Mr. John E. Jackson (*Mr. E. W. Shepard* of counsel) for Guthans.

Mr. W. W. Cochran (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

GARRETT, *P. J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Examiner disallowing certain claims embraced in appellant's application for patent relating, according to the statement in the specification, "to improvements in lubricating apparatus for the propeller shaft of watercraft and stern bearings thereof."

Five claims, numbered 1 to 5, inclusive, were involved in the appeal to the Board and in the appeal to us but at the oral hearing before us counsel for appellant moved to dismiss the appeal as to claim No. 5, which motion will be allowed. Of the remaining claims, numbered, respectively, 1 to 4, inclusive, claim No. 1 reads:

1. A lubricating apparatus for a shaft and its bearing comprising a yieldingly positioned gland engaging a packing carried in a recess in the bearing, lubricant extruding means connected by a duct with the bearing and driving means for said extruding means driven by the shaft so as to constantly force the lubricant at a substantially constant pressure to the interior of the bearing along said shaft against the action of the yieldingly pressed gland.

In the brief for appellant it is said:

Claim 2 is of similar scope to claim 1, but specifically mentions a spring-pressed gland and the piston and cylinder for forcing the lubricant through the duct leading to the bearing.

Claims 3 and 4 define the combination in more specific terms, bringing in the fluid supply tank and the relief valve and the connection from the supply tank to the intake side of the pump. These detailed features are apparent from consideration of the specification and drawings, and are intended to set forth, with that degree of particularity required by the statutes, the exact elements which in practice have been found to produce excellent results.

The Examiner describes the invention in the following manner:

This device covers a means for lubricating and sealing a bearing for propeller shafts of watercraft and stern bearings and contemplates means for forcing lubricant to the outboard bearing under pressure along the propeller shaft and against a force exerted on a packing by a spring-pressed gland. The arrangement is such that sand, grit, and water are kept out of the bearing and wear on the packing is automatically compensated for.

The pressure on the lubricant to force same to the bearing is brought about through a pump operated from the propeller shaft. This forces a liquid into a cylinder thereby driving a piston against a quantity of lubricant in said cylinder, which escapes through a conduit to the bearing and packing.

We quote from the brief filed before us by the Solicitor for the Patent Office (omitting the numerals which identify the parts shown in the drawings) the following:

The main features of this device, as they appear in the claims here involved, may be summarized as follows: a gland engages a packing, carried in a recess of the bearing of the shaft, the gland being pressed by a spring. There is a lubricant cylinder, within which is a piston which extrudes lubricant through the duct to lubricate the bearing. The shaft drives a pump.

The Examiner rejected the claims now before us, first, upon the ground of old and exhausted combination and, second, as not being patentable over prior art. The first ground was overruled by the Board, but the second ground was approved. The references cited by the Examiner and in the decision of the Board are: Scott, 53,190, March 13, 1866; Davis, 724,086, March 31, 1903; Bennett, 1,097,074, May 19, 1914; Hodgkinson, 1,323,474, December 2, 1919; Scoville, 1,696,737, December 25, 1928; More et al., 1,997,069, April 9, 1935.

The Examiner's analysis of the references was made in connection with his rejection upon the ground of old combination, which ground the Board overruled but without questioning the correctness of the Examiner's analysis. The Board's statement concerning the prior art is as follows:

The prior art discussed by the Examiner discloses a lubricant pump operated from a shaft which discharges a lubricant against a packing member surrounding the shaft (see Hodgkinson). It also shows a gland in a packing member which is spring pressed into position. We fail to find patentability in arranging such gland structure so that the pressure of the lubricant from the pump is exerted against the action of the spring acting upon the gland. Bennett describes a submerged shaft having a packing gland held tight against a ring by combined spring and lubricant pressure and to use the lubricant pressure to oppose the spring does not appeal to us as patentable. The patentee describes using light lubricant pressure under normal conditions.

Appellant's brief contains an analysis of the references, as does the brief filed by the Solicitor for the Patent Office. These need not be repeated in detail, but such parts of them as are pertinent will be alluded to hereinafter.

It is contended by appellant that there is no reference which discloses the combination that he has perfected and that

"without invention one cannot piece together the isolated portions of the teachings taken from six prior patents and arrive at a device capable of producing the result which practice has demonstrated the device of appellant's invention in reality produces."

The brief for appellant also states:

Appellant contends that the decision of the Board of Appeals is inconsistent in holding that although the Examiner was unjustified in rejecting the claims on the basis of exhausted combination, no invention was involved particularly in the absence of any patent fairly disclosing the claimed combination.

It appears that the instant application is a division of another application which matured into a patent. Neither the original application nor the patent appears in the record, but it is stated in appellant's brief that the gland per se, mentioned in all the claims before us, and its mounting and related structure, is covered by the patent. Appellant's claims here, of course, are for the combination of which the gland is an element.

It is not contended that any one of the references anticipates the appealed claims, the ground of rejection being, as expressed in the brief filed by the Solicitor for the Patent Office, "not anticipation but lack of patentable invention over what is shown by the references."

In both the brief and oral argument before us appellant has greatly stressed the presence in his combination of the spring-pressed gland in an arrangement which extrudes lubricant against the action of such gland, it being said:

No reference of record shows a spring pressed gland in combination with means actuated by the lubricated shaft for extruding lubricant against the spring action of such gland. In the absence of such reference, it is submitted that the rejection must fall.

The feature so referred to, it may be said, is specifically set out only in claim 1. The other claims before us do not mention it. We understand the result obtained by the arrangement described is that the lubricant passes through the packing gland in a direction contrary to the direction of the water pressure whereby, as stated in appellant's brief, the packing is "purged of sand, grit and other foreign matter * * *."

The brief filed by the Solicitor for the Patent Office points out that the patent to Davis (which relates to a submerged gudgeon bearing) discloses a construction whereby sand, grit, or other foreign substances are excluded from the surfaces of the journal box and the gudgeon; that the patent to Hodgkinson (which relates to a stern tube for ships) discloses a propeller shaft mounted in bearings with an annular space supplied with lubricant from a supply tank by means of a pump which is operated from the shaft to be lubricated, the specification reciting that the pump

"may be so connected that it may be operated directly from the propeller shaft or it may be separately operated or be capable of separate operation, if desired";

and that the patent to Bennett (which relates to a packing designed to obviate undue wear of the packing and to permit efficient lubrication of the bearing and at the same time to prevent water from without entering into the bearing) discloses a packing guard and packing rings pressed by springs, together with a pipe adapted to be connected with a suitable source of fluid supply which may be lubricating fluid.

Appellant does not question the presence in the respective references of the elements, or features, so described, nor is it questioned that such features function in the manner indicated by their description. On the other hand, the tribunals of the Patent Office did not find that the prior art disclosed a combination which embraced a spring-pressed gland, such as appellant's, or an equivalent thereof, in an arrangement such as that shown by appellant.

It was pointed out by the Examiner, however, that the patent to Bennett and also that to More et al. (which relates to a pump) discloses a spring as part of the sealing means used for preventing the entrance of water into a bearing, the spring being so arranged that it performs the sealing function.

Appellant's spring-pressed gland, as has been stated, is new, and was found per se patentable over prior art, but we are unable to discern wherein the placing of such spring-pressed gland in an arrangement such as that defined in claim No. 1, could render the combination created thereby patentable.

By way of argument the brief filed by the Solicitor for the Patent Office states:

It is to be noted that with the longitudinal shaft there are only two directions and the water acts in one direction with the lubricant pressure in the opposite direction. It must be obvious if there is a spring-pressed gland on such a shaft the pressure of the spring must act either with the water or with the lubricant.

While appellant in his brief at page 8 refers to an extract from his specification as indicating a peculiar cooperation between the particular direction of spring pressure stated in claim 1, nevertheless, analysis of the portion of the specification quoted at pages 8 and 9 of appellant's brief appears to indicate only one function for the spring pressure—namely, to constantly compensate for the wear taking place on the packing. This function obviously occurs in those of the references which show spring-pressed packings, regardless of whether the pressure is in the direction of the water or in the direction of the lubricant.

Furthermore, as to the function mentioned in the specification for forcing the lubricant against the water pressure, the identical function is indicated in the references, namely to avoid the entry of grit into the bearing.

During the prosecution of the application in the Patent Office appellant introduced evidence respecting the commercial success of his device.

[1] It is the rule that in cases where doubt as to patentability exists commercial success, when duly proven, may be given some persuasive force. *In re Charles H. Peddrick, Jr., and Philip Wager Lewis*, 18 C. C. P. A. (Patents) 1161, 48 F.(2d) 415, 410 O. G. 813. This rule does not apply, however, where the question of patentability is not in doubt. *In re Alfred L. Phelps and Arthur J. Carter*, 18 C. C. P. A. (Patents) 1036, 47 F.(2d) 387, 409 O. G. 289.

As we view the situation here the element of doubt is not present.

As has been stated above, claim No. 1 is the only claim in which the feature actively stressed by appellant is definitely expressed, and upon the record presented there is no necessity for discussing the other claims.

[2] In conformity with the motion of appellant made at the oral presentation of the case before us, the appeal is dismissed as to claim No. 5, and being satisfied that the Board reached the correct conclusion as to claims Nos. 1, 2, 3, and 4, its decision rejecting them is affirmed.

Affirmed.

Disclaimers

1,756,251.—*Boris N. Lougovoy*, Montclair, N. J. PHTHALIC-UREA RESIN AND PROCESS OF MAKING SAME. Patent dated April 29, 1930. Disclaimer filed June 8, 1942, by the assignee, *Ellis-Foster Company*; the licensee, *Plaskon Company, Incorporated*, concurring and assenting.

Hereby enters this disclaimer to claim 12 of said patent.

2,173,054.—*Emmet F. Hitch*, Wilmington, Del. MONAZO DYES FOR CELLULOSE ESTERS AND ETHERS. Patent dated September 12, 1939. Disclaimer filed June 3, 1942, by the assignee, *E. I. du Pont de Nemours & Company*.

Hereby enters this disclaimer as to claims 2 and 5 of said patent.

2,161,678.—*Kenneth H. Klipstein*, Short Hills, N. J. LUBRICATING COMPOSITION. Patent dated June 6, 1939. Disclaimer filed June 6, 1942, by the assignee, *American Cyanamid Company*.

Hereby disclaims claims 1, 2, and 3.

2,214,468.—*Paul U. Lannerd*, North Tonawanda, N. Y. PROJECTION DEVICE. Patent dated September 10, 1940. Disclaimer filed May 30, 1942, by the assignee, *The Rudolph Wurlitzer Company*.

Hereby enters its disclaimer to that part of the claims in said specification which is in the following words, to wit: So much of claims 1, 5, 15 and 17 of said patent as is in excess of:

Film manipulating mechanism for an automatic multi-film projecting apparatus having a single reproducing device common to all of the film magazines, and a single means common to all of the film magazines selectively operable to actuate the film engaging and driving members of a selected and placed magazine.

2,216,040.—*Harry L. Mead* and *Ernest J. Maust*, Brewster, Fla. BENEFICIATION OF PHOSPHATE ROCK BY FROTH FLOTATION. Patent dated September 24, 1940. Disclaimer filed June 4, 1942, by the assignee, *American Cyanamid Company*.

Hereby disclaims claim 1.

2,231,686.—*Burton E. Shaw*, Bristol, Ind. SWITCH STRUCTURE. Patent dated February 11, 1941. Disclaimer filed June 9, 1942, by the inventor; the assignee, *Penn Electric Switch Co.*, approving.

Hereby enters this disclaimer to claims 1, 2, and 3.

2,247,687.—*Edward A. Johnston*, Chicago, Ill. TRACTOR MOUNTED HARVESTER. Patent dated July 1, 1941. Disclaimer filed May 30, 1942, by the assignee, *International Harvester Company*.

Hereby enters this disclaimer to claims 3, 4, 5, 6, 15 and 16.

2,248,267.—*Dana Howland Bacon*, Arlington, Mass. VOLTAGE LIMITER. Patent dated July 8, 1941. Disclaimer filed June 2, 1942, by the assignee, *National Company, Inc.*

Hereby enters this disclaimer to claims 1, 5, 7, 8 and 11 in said specification.

BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS

RENDERED DURING MAY, 1942

EX PARTE WHITSON PRODUCTS CO., INC., Serial No. 443,901.

In a decision rendered May 1, 1942 (163 Ms. Dec. 935, 53 U. S. P. Q. 424), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks in refusing registration, under the act of 1905, to Whitson Products Co., Inc., of New York, N. Y., of the alleged trade-mark "Golden Whip," for goods described in the application as

"a preparation made of egg yolks and modified milk proteins for improving the texture and freezing qualities of frozen confections."

The Examiner refused registration on the ground that the mark is descriptive of the goods. In agreeing with the Examiner, the First Assistant Commissioner said:

"Applicant's product is a finely powdered substance of a light yellow color. According to applicant's counsel, it is now sold only to ice cream manufacturers, who add it 'to the mix which is made in the manufacture of frozen confections;' but no claim is made that it is not suitable for use in the kitchen, and for other purposes than that specified.

"Webster's New International Dictionary defines the word 'golden' as 'having the color of gold;' and according to the same authority, 'whip' means 'a dish made by whipping cream, eggs, etc.' The word 'golden' thus fairly describes the appearance of applicant's product, and the word 'whip' is descriptive of its 'character or quality.' *In re General Permanent Wave Corporation*, 28 C. C. P. A. 1099, 118 Fed.(2d) 1020."

BAUSCH & LOMB OPTICAL COMPANY *v.* MAX BRESSLER, Opposition No. 20,133.

In a decision rendered May 4, 1942 (163 Ms. Dec. 937, 53 U. S. P. Q. 433), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition by Bausch & Lomb Optical Company, of Rochester, N. Y., to the application of Max Bressler, of Chicago, Ill., for registration of the notation "Metro-Cam" as a trade-mark for cameras. The opposition was predicated upon opposer's prior use and registration of the trade-mark "Metrogon" for objective lenses.

Before the First Assistant Commissioner the opposer insisted that the proposed registration should be refused on the ground that applicant, as an individual, has made no use of the mark he sought to register. The opposer based this contention upon applicant's testimony to the effect that the mark is used by a partnership known as Metropolitan Industries, and upon certain documentary evidence introduced by applicant in support of that testimony. With reference to these proofs, the First Assistant Commissioner stated:

"The application was filed May 6, 1940. Applicant's testimony was taken February 7, 1941. He testified that at that time the mark had been in use for one year. The earliest of the documents referred to is dated May 9, 1940. There is thus no affirmative showing that applicant was not using the mark when his application was filed, and his sworn application must be accepted as prima facie proof that he was. *General Baking Co. v. Commander-Larabee Corporation*, 23 C. C. P. A. 973, 82 Fed.(2d) 427."

The applicant argued that the goods of the parties are not of the same descriptive properties, that their marks are not confusingly similar, and that opposer had failed to prove use of its mark in connection with the goods specified in the registration. In regard to this argument, the First Assistant Commissioner said:

"Opposer took no testimony, but the registration of its mark under the Trade-Mark Act of 1905 is prima facie evidence of ownership, and ownership implies use. *Ely & Walker Dry Goods Co. v. Sears, Roebuck & Co.*, 24 C. C. P. A. 1244, 90 Fed.(2d) 257. And while there is no evidence that opposer's objective lenses are used with cameras, it is a matter of common knowledge that practically all cameras are equipped with objective lenses, and would be useless without them.

"Applicant complains of the Examiner's taking judicial notice 'of the fact that cameras and various lenses therefor are sold in the same stores at various prices.' But whether the Examiner was right or wrong in that regard, lenses and cameras are so intimately related that their sale under identical or closely similar trade-marks would inevitably lead to confusion as to their origin.

"Manifestly the marks here under consideration are not identical; but they are quite similar, particularly in sound. Resolving doubts in opposer's favor, in accordance with the well established practice, I think there is a reasonable likelihood that their concurrent use may confuse purchasers, and that opposer would thus be damaged by the registration of applicant's mark."

EX PARTE THE BROWN FENCE & WIRE COMPANY, Serial No. 439,586.

In a decision rendered May 4, 1942 (163 Ms. Dec. 936, 53 U. S. P. Q. 434), *First Assistant Commissioner Frazer* reversed the action of the Examiner of Trade-Marks in refusing registration to The Brown Fence & Wire Company, of Cleveland, Ohio, of the notation "Weed-Master" as a trade-mark for "electric fence chargers." The Examiner based his refusal on the ground that said notation is confusingly similar to the trade-mark "Stockmaster," previously registered for "electric fence controllers for controlling the electric current supply to fences or fence wire." In concluding that, in the absence of opposition, applicant was entitled to the proposed registration, the First Assistant Commissioner said:

"Manifestly applicant's goods and those of the reference possess the same descriptive properties, but they are not necessarily identical. The marks have in common only the word 'master,' which, if not actually descriptive, is so highly suggestive, as used in both marks, as to have little, if any, trade-mark significance. Viewed in their entirety, the expressions 'Stockmaster' and 'Weed-master' differ so substantially in appearance, in sound, and in meaning, that I doubt the likelihood of any confusion arising through their concurrent use."

HIGH ROCK GINGER ALE COMPANY *v.* THE MIL-K-BOTL CORPORATION OF AMERICA, Opposition No. 19,911.

In a decision rendered May 4, 1942 (163 Ms. Dec. 938, 53 U. S. P. Q. 431), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences in so far as by that decision the Examiner dismissed the opposition by High Rock Ginger Ale Company, of Baltimore, Md., to the

application of the Mil-K-Botl Corporation of America, of St. Louis, Mo., for registration of the trade-mark "Sun Drop" for non-alcoholic, maltless beverages sold as soft drinks, and extracts and concentrates for making such beverages. The Assistant Commissioner reversed the decision of the Examiner in so far as by that decision the Examiner adjudged the applicant not entitled to registration of said trade-mark.

In its notice of opposition, High Rock Ginger Ale Company asserted ownership and use since February 2, 1937, of the trade-mark "Sun Spot" for goods identical with those named in the opposed application. In said application the Mil-K-Botl Corporation of America asserted ownership and use of the mark "Sun Drop" by applicant and its predecessor since April 29, 1929, and also asserted ownership by applicant of a registration No. 269,655, issued April 15, 1930. As stated by the Assistant Commissioner, the applicant introduced this registration in evidence. He observed that this registration shows the mark thereof to be "Sun Drop" for flavoring extracts and concentrated syrups for making soda water and other beverages, particularly orange beverage. He also observed that the mark is somewhat differently displayed from the mark of the application, and that the registration was issued to J. F. Lazier Manufacturing Co., Inc., of St. Louis, Mo. The Assistant Commissioner stated that to prove ownership of this registration and of the mark thereof, applicant presented a recorded assignment dated October 20, 1939, to it from J. F. Lazier Manufacturing Co., Inc., of this "Sun Drop" trade-mark and registration and "the good will of the business to which the mark is used."

In regard to this assignment, the Assistant Commissioner stated:

"Opposer attacks the validity of this assignment, asserting that it has not been established that the assignor was using the mark at the time of the assignment and that the assignment established merely abandonment of the mark by the assignor and that applicant acquired no rights under the assignment. Opposer stresses the fact that on cross-examination applicant's witnesses were called on to produce company records to support their statements that the assignor was using the mark at the time of the assignment and that applicant acquired the good will of the business in connection with which the assignor was using the mark, and, on instruction of counsel for applicant, refused to produce such records although the witnesses stated such records were in existence and could be produced.

"The execution of the assignment document was duly proven by applicant. The burden then of proving abandonment and non-use was on opposer. I do not consider the mere fact that applicant refused to produce records of sales of goods under the mark overcomes its prima facie ownership and use of the mark evidenced by the registration or establishes abandonment of the mark. Evidently opposer did not care to attempt to have the records produced as a part of its own case.

"Opposer also calls attention to the statement of one of applicant's witnesses that under privilege of applicant the assignor is still selling orange beverage under the mark; applicant, according to the witness, having started with the lemon beverage under the mark and intends eventually to take over the orange beverage business. To my mind this statement relates to a transition period and does not establish that under the assignment the assignor did not intend to discontinue the sale of the orange beverage under the mark, but, on the contrary, indicates to me that it is the intention of the assignor to pass over to applicant the orange beverage business, and all the associated good will. Prima facie, the assignment gave applicant the right to the exclusive use of the mark for the goods named in the registration. There is no evidence that the assignor retained any adverse right in the mark or that applicant, under the assignment, cannot assert its right to the exclusive use of the mark at any time. In my opinion the temporary continuing use of the mark by the assignor does not establish that applicant did not acquire or does not have the right to the exclusive use of the mark, and does not establish abandonment of the mark or that applicant did not acquire the mark and the good will under the assignment. I hold the assignment valid and the mark not abandoned and applicant owner of the mark and the registration. Accordingly, applicant, through its predecessor J. F. Lazier Manufacturing Co., Inc., is deemed to have established use and ownership of the 'Sun Drop' mark of the assigned registration for the goods named in the registration. As stated, this registration issued April 15, 1930, which is long prior to the date of first use asserted by opposer of its mark 'Sun Spot'."

In finding the Mil-K-Botl Corporation of America entitled to the registration for which it made application, the Assistant Commissioner had the following to say:

"However, the opposed application was not filed until after opposer began to use the word 'Sun Spot' on its goods, and although the application includes the goods named in the registration, to wit, flavoring extracts and concentrated syrups for making soda water and other beverages, the application further includes non-alcoholic, maltless beverages sold as soft drinks, and made from such extracts and concentrates. The latter goods are clearly of the same descriptive properties as the extracts and concentrates. *In re Coca Cola Bottling Co. of Los Angeles*, 18 C. C. P. A. 1384, 49 F.(2d) 838, 412 O. G. 559. And I believe it would be considered natural for both soft drinks and extracts for making the drinks to come from the same manufacturer, particularly as there is no evidence to the contrary and both parties are making and selling both the extracts and beverages made therefrom.

"Both marks 'Sun Drop' and 'Sun Spot' include prominently the word 'Sun'. This gives the entire marks a resemblance in significance or suggestiveness. *Florida Citrus Canners Cooperative v. California Fruit Growers Exchange*, 25 C. C. P. A. 963, 95 F.(2d) 512. Each of the marks comprises two words, and there is some resemblance between the words 'Spot' and 'Drop'. Considering the marks in their entireties and noting the goods to which they are applied, it is my opinion that the marks so resemble each other that their concurrent use on the goods stated would be likely to cause confusion and mistake on the part of the public and to deceive purchasers. I mention this because confusing similarity is pleaded.

"In view of the ownership by applicant of registration No. 269,655, of the mark 'Sun Drop' and the close relationship between the goods named in this registration and in the application for registration of the mark 'Sun Drop', it is my opinion that applicant has the right to the exclusive use of the mark 'Sun Drop' for the goods named in the application over any right of opposer, and applicant is entitled to registration. *The Penetrine Corporation v. Plough, Inc.*, 28 C. C. P. A. 1307, 121 Fed.(2d) 539, 50 U. S. P. Q. 133."

J. F. LAZIER MANUFACTURING CO., INC. (MIL-K-BOTL CORPORATION OF AMERICA, ASSIGNEE, SUBSTITUTED) *v.* HIGH ROCK GINGER ALE COMPANY, Opposition No. 17,968.

In a decision rendered May 4, 1942 (163 Ms. Dec. 941, 53 U. S. P. Q. 425), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition by J. F. Lazier Manufacturing Co., Inc., of St. Louis, Mo., (Mil-K-Botl Corporation of America, also of St. Louis, Mo., assignee, substituted), to the application of High Rock Ginger Ale Company, of Baltimore, Md., for registration of a composite mark in which the words "Sun Spot" are the dominating feature, applied to non-alcoholic, maltless beverages sold as soft drinks, and extracts used in making them.

Applicant claimed use since February 2, 1937. In the notice of opposition filed by J. F. Lazier Manufacturing Co., Inc., that company asserted a registration of the mark "Sun Drop" issued to that company April 15, 1930, for flavoring extracts and concentrated syrups for making soda water and other beverages, particularly orange beverage, and also asserted continuous ownership of said registration and continuous use of the mark on the goods named

therein. As stated by the Assistant Commissioner, during the pendency of the proceedings, Mil-K-Botl Corporation of America presented a recorded assignment dated October 20, 1939, to it from J. F. Lazier Manufacturing Co., Inc., of the "Sun Drop" trade-mark and registration and "the good will of the business to which the trade-mark is used", and thereupon that company became substituted as opposer in the proceeding.

As in Opposition No. 19,911, the High Rock Ginger Ale Company attacked the validity of said assignment, but the Assistant Commissioner repeated the rulings made in his decision in that other opposition and held the assignment valid and the mark not abandoned and the substituted opposer owner of the mark and the registration.

In regard to the questions of the similarity of the goods and the marks, the Assistant Commissioner stated:

"The goods are clearly of the same descriptive properties, and are identical as to extracts used in making soft drinks such as soda water.

"This leaves for consideration the question whether the marks 'Sun Spot' and 'Sun Drop' applied to soft drinks and extracts for making them are or are not confusingly similar.

"Both include prominently the word 'Sun'. This gives the entire marks a resemblance in significance or suggestiveness. *Florida Citrus Canners Cooperative* v. *California Fruit Growers Exchange*, 25 C. C. P. A. 963, 95 F.(2d) 512, 471 O. G. 716. Each of the marks comprises two words, and there is some resemblance between the words 'Spot' and 'Drop'. Considering the marks in their entireties and noting the goods to which they are applied, it is my opinion that the marks so resemble each other that their concurrent use on the goods stated would be likely to cause confusion and mistake on the part of the public and to deceive purchasers, and the Examiner was correct in sustaining the notice of opposition."

J. F. LAZIER MANUFACTURING CO., INC. (MIL-K-BOTL CORPORATION OF AMERICA, ASSIGNEE, SUBSTITUTED) *v.* HIGH ROCK GINGER ALE COMPANY, Opposition No. 18,286.

In a decision rendered May 4, 1942 (163 Ms. Dec. 944, 53 U. S. P. Q. 427), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition by J. F. Lazier Manufacturing Co., Inc., of St. Louis, Mo., (Mil-K-Botl Corporation of America, also of St. Louis, Mo., assignee, substituted), to the application of High Rock Ginger Ale Company, of Baltimore, Md., for registration of a composite mark in which the words "Sun Orange" are the dominating feature, applied to non-alcoholic, maltless beverages sold as soft drinks, and extracts used in making them.

Applicant claimed use since February 2, 1937. In the notice of opposition filed by J. F. Lazier Manufacturing Co., Inc., that company asserted a registration of the mark "Sun Drop" issued to that company April 15, 1930, for flavoring extracts and concentrated syrups for making soda water and other beverages, particularly orange beverage, and also asserted continuous ownership of said registration and continuous use of the marks on the goods named therein. As stated by the Assistant Commissioner, during the pendency of the proceedings, Mil-K-Botl Corporation of America presented a recorded assignment dated October 20, 1939, to it from J. F. Lazier Manufacturing Co., Inc., of the "Sun Drop" trade-mark and registration and "the good will of the business to which the trade-mark is used", and thereupon that company became substituted as opposer in the proceeding.

As in Opposition No. 19,911, the High Rock Ginger Ale Company attacked the validity of the assignment but the Assistant Commissioner repeated the rulings made in his decision in that other opposition and held the assignment valid and the mark not abandoned and the substituted opposer owner of the mark and the registration.

In regard to the questions of the similarity of the goods and the marks, the Assistant Commissioner said:

"The goods are clearly of the same descriptive properties, and are identical as to extracts used in making soft drinks such as soda water.

"This leaves for consideration the question whether the marks 'Sun Orange' and 'Sun Drop' applied to soft drinks and extracts for making them are or are not confusingly similar.

"The Examiner of Trade-Marks held, and I think correctly, that the word 'Orange' of the 'Sun Orange' mark was descriptive. It describes the soft drink to which the mark is applied as being an orange beverage. In this respect the word 'Orange' is similar to the word 'Lemon' of the mark 'Lemon Frost' and which has been held to be descriptive of extracts and syrup for making soft drinks. *In re Coca Cola Bottling Company of Los Angeles*, 18 C. C. P. A. 1384, 49 F.(2d) 838, 412 O. G. 559. Following the Examiner's ruling that the word 'Orange' was descriptive, applicant disclaimed the right to exclusive use of the word 'Orange' apart from the mark as a whole. Accordingly I consider the word 'Orange' in the mark to have minor trade-mark significance and the word 'Sun' to have dominating trade-mark significance therein. *American Brewing Company, Inc.*, v. *Delatour Beverage Corporation*, 26 C. C. P. A. 778, 100 F.(2d) 253, 501 O. G. 293. The word 'Sun' is also prominent in the mark 'Sun Drop' and this gives the marks a resemblance in significance and suggestiveness. *Florida Citrus Canners Cooperative* v. *California Fruit Growers Exchange*, 25 C. C. P. A. 963, 95 F.(2d) 512, 471 O. G. 716.

"Considering the marks in their entireties and noting the goods to which they are applied, it is my opinion that the marks so resemble each other that their concurrent use on the goods stated would be likely to cause confusion and mistake on the part of the public and to deceive purchasers, and the Examiner was correct in sustaining the notice of opposition."

J. F. LAZIER MANUFACTURING CO., INC. (MIL-K-BOTL CORPORATION OF AMERICA, ASSIGNEE, SUBSTITUTED) *v.* HIGH ROCK GINGER ALE COMPANY, Opposition No. 18,290.

In a decision rendered May 4, 1942 (163 Ms. Dec. 946, 53 U. S. P. Q. 429), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition by J. F. Lazier Manufacturing Co., Inc., of St. Louis, Mo., (Mil-K-Botl Corporation of America, also of St. Louis, Mo., assignee, substituted), to the application of High Rock Ginger Ale Company, of Baltimore, Md., for registration of a composite mark in which the words "Sun Fruit" are the dominating feature, applied to non-alcoholic, maltless beverages sold as soft drinks, and extracts used in making them.

Applicant claimed use since February 2, 1937. In the notice of opposition filed by J. F. Lazier Manufacturing Co., Inc., that company asserted a registration of the mark "Sun Drop" issued to that company April 15, 1930, for flavoring extracts and concentrated syrups for making soda water and other beverages, particularly orange beverage, and also

asserted continuous ownership of said registration and continuous use of said mark upon the goods named therein. As stated by the Assistant Commissioner, during the pendency of the proceedings, Mil-K-Botl Corporation of America presented a recorded assignment dated October 20, 1939, to it from J. F. Lazier Manufacturing Co., Inc., of the "Sun Drop" trade-mark and registration and "the good will of the business to which the trade-mark is used", and thereupon that company became substituted as opposer in the proceeding.

As in Opposition No. 19,911, the High Rock Ginger Ale Company attacked the validity of the assignment but the Assistant Commissioner repeated the rulings made in his decision in that other opposition and held the assignment valid and the mark not abandoned and the substituted opposer owner of the mark and the registration.

In regard to the questions of the similarity of the goods and the marks, the Assistant Commissioner stated:

"The goods are clearly of the same descriptive properties, and are identical as to extracts used in making soft drinks such as soda water.

"This leaves for consideration the question whether the marks 'Sun Fruit' and 'Sun Drop' applied to soft drinks and extracts for making them are or are not confusingly similar.

"The Examiner of Trade-Marks held, and I think correctly, that the word 'Fruit' of the 'Sun Fruit' mark was descriptive. It describes the soft drink to which the mark is applied as a fruit beverage. In this respect the word 'Fruit' is similar to the word 'Lemon' of the mark 'Lemon Frost' and which has been held to be descriptive of extracts and syrup for making soft drinks. *In re Coca Cola Bottling Company of Los Angeles*, 18 C. C. P. A. 1384, 49 F.(2d) 838, 412 O. G. 559. Following the Examiner's ruling that the word 'Fruit' was descriptive, applicant disclaimed the right to exclusive use of the word 'Fruit' apart from the mark as a whole. Accordingly I consider the word 'Fruit' in the mark to have minor trade-mark significance and the word 'Sun' to have dominating trade-mark significance therein. *American Brewing Company, Inc.*, v. *Delatour Beverage Corporation*, 26 C. C. P. A. 778, 100 F.(2d) 253, 501 O. G. 293. The word 'Sun' is also prominent in the mark 'Sun Drop' and this gives the marks a resemblance in significance and suggestiveness. *Florida Citrus Canners Cooperative* v. *California Fruit Growers Exchange*, 25 C. C. P. A. 963, 95 F.(2d) 512, 471 O. G. 716.

"Considering the marks in their entireties and noting the goods to which they are applied, it is my opinion that the marks so resemble each other that their concurrent use on the goods stated would be likely to cause confusion and mistake on the part of the public and to deceive purchasers, and the Examiner was correct in sustaining the notice of opposition."

LEHN & FINK PRODUCTS CORPORATION *v.* DREZMA, INC., Opposition No. 19,887.

In a decision rendered May 5, 1942 (163 Ms. Dec. 949, 53 U. S. P. Q. 435), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences dismissing the opposition by Lehn & Fink Products Corporation, of Bloomfield, N. J., to the application of Drezma, Inc., of New York, N. Y., for registration of the notation "Cool Flame" as a trade-mark for lipstick, but refused registration of applicant's said mark. The Examiner of Trade-Mark Interferences held the word "Flame," as applied to applicant's goods, to be descriptive, and refused registration in the absence of an appropriate disclaimer. Such a disclaimer was filed by the applicant, but the First Assistant Commissioner stated that he was unable to agree with the Examiner that the disclaimer rendered applicant's mark registrable. He said:

"If the word 'Flame' is descriptive of lipstick, so is the word 'Cool,' and for the same reason. Both have a well-recognized significance with respect to color, which was the Examiner's reason for requiring applicant to disclaim the word 'Flame.' The propriety of that requirement need not be discussed here, because it is conceded by applicant. 'Flame' is defined in Webster's New International Dictionary as 'the color of flame; flame scarlet.' The same authority gives one definition of the word 'cool' as 'of colors, producing a sense of coolness.' Both words of applicant's mark are thus descriptive, or misdescriptive, of the character of the goods to which the mark is appropriated."

With reference to the opposition, the First Assistant Commissioner stated:

"In view of applicant's disclaimer, the opposition was properly dismissed. As between the parties to this proceeding opposer has established prior use of the word 'Flame' on lipstick; but because the word is descriptive of such goods, opposer has acquired no exclusive right to its use. Any dealer has the right to apply to his merchandise a word which truly describes it."

ANACONDA COPPER MINING COMPANY ET AL. *v.* METALS DISINTEGRATING COMPANY, INC., Opposition No. 21,813.

In a decision rendered May 11, 1942 (163 Ms. Dec. 951, 53 U. S. P. Q. 473), *First Assistant Commissioner Frazer* denied a petition filed by Anaconda Copper Mining Company, of Butte, Mont., and other petitioners, and concerning an application of Metals Disintegrating Company, Inc., of Union, N. J., for trade-mark registration. The petition asked that the Commissioner of Patents

"authorize and direct the Examiner of Interferences to grant a reasonable period of time within which the notice of opposition herein may be verified by the opposers, and to institute the opposition upon the filing of such verification."

As stated by the First Assistant Commissioner, within thirty days after publication of the application of Metals Disintegrating Company, Inc., sought to be opposed, a notice of opposition was filed, duly signed by their respective officers on behalf of the several petitioners, but unverified. Because of the absence of a verification, which he held

"should have been supplied within the thirty days allowed by statute from the date of publication of the trade-mark opposed,"

the Examiner refused to institute the opposition proceeding.

Counsel for petitioners took the position that the words "filing" and "filed," as used in section 6 of the Trade-Mark Act of February 20, 1905, may properly be construed as having reference to the physical act of lodging the notice of opposition in the Patent Office, and pointed out that they, as duly authorized attorneys, performed such physical act in this case, and paid the statutory filing fee. Counsel thus argued that the express language of the statute entitled petitioners to a reasonable time after its filing to verify their notice of opposition. The First Assistant Commissioner stated that the precise question presented by the petitioners was considered by the Commissioner of Patents in the case of *Milton Bradley Co.* v. *J. W. Spear & Sons*, 114 Ms. D. 144, 4 T. M. Rep. 460, and was determined adversely to the contention advanced by petitioners. He quoted from said decision at length.

The First Assistant Commissioner noted that,

prior to its amendment in 1907, section 6 of the act contained no provision for the filing of an opposition by the opposer's attorney, and its subsequent verification by the opposer. He also noted that, with reference to the amendment, counsel had the following to say in their brief:

"We submit that the arbitrary refusal to institute the opposition proceedings is in direct conflict with the spirit and purpose of the amendment of March 2, 1907, to section 6 of the act of February 20, 1905. The sole reason for permitting an attorney to file an opposition is to permit increased use of the privilege of opposing registration of trade-marks. A ruling that an unverified notice of opposition cannot be considered filed by attorneys, apparently merely because the attorneys' signature was not affixed to the notice of opposition, when all of the acts generally considered to constitute 'filing' were performed by duly authorized attorneys, not only strains the language of the statute and the accepted definitions of the word 'filed' used in the statute, but further does violence to the intent of Congress, as evidenced by the passage of the amendment, that reasonable liberality be allowed in connection with the bringing of oppositions."

In regard to this argument of the petitioners, the First Assistant Commissioner stated that a somewhat different view as to the purpose of the amendment was taken by the Court of Appeals of the District of Columbia in the case of *The Hall's Safe Co. v. Herring-Hall-Marvin Safe Co.*, 31 App. D. C. 498, 1908 C. D. 473, decided shortly after the passage of the amendatory act. He quoted from the decision of that court as follows:

"As it sometimes happened that illness or absence of the opposer rendered it impossible for him to make the required verification within the thirty days required by the act, the amendatory act of 1907 undertook to remedy this hardship by providing that an opposition may be filed in the name of an opponent by his duly authorized attorney within the time, but the same shall be null and void, unless verified by the opposer within a reasonable time thereafter. * * *

"The mischief sought to be remedied was, as heretofore pointed out: An opposition might be filed in the name of a party by his attorney, the verification of which by the party, himself, could not be obtained within the thirty days, and he was permitted to make it within a reasonable time thereafter. The statute was not intended to apply to a case where the opposer was able and ready to verify but failed to do so in the manner provided by law."

CROWN PRODUCTS CORPORATION *v.* TAMA TRADING CO., LTD., Opposition No. 21,584.

In a decision rendered May 11, 1942 (163 Ms. Dec. 954, 53 U. S. P. Q. 475), *First Assistant Commissioner Frazer* denied a petition filed by Crown Products Corporation, of Los Angeles, Calif., in this opposition proceeding brought against an application of Tama Trading Co., Ltd., also of Los Angeles, Calif., and pending before the Examiner of Trade-Mark Interferences. The petition purportedly was filed under rule 62 of the Rules of Practice relating to trade-marks. However, the First Assistant Commissioner stated that the relief sought finds no basis in the provisions of that rule. He added that the petition was nothing more or less than a protest against the granting of the application by Tama Trading Co., Ltd., for registration.

The petitioner urged that the Examiner of Trade-Marks was inconsistent in passing for publication the application of the party Tama Trading Co., Ltd., after finally rejecting petitioner's application for registration of a similar mark, appropriated to the same merchandise. The First Assistant Commissioner noted that petitioner had not appealed from the Examiner's action in its own case, but insisted that the opposed registration should be refused for the same reason, namely, that the mark sought to be registered constitutes scandalous matter. In discussing petitioner's arguments, the First Assistant Commissioner said:

"It is now too well established to require a citation of authorities that in an opposition proceeding it is the duty of the Examiner of Interferences to determine the right of registration of the applicant's trade-mark, and that in so doing he may consider any ground of rejection that could have been considered by the Examiner of Trade-Marks in the ex parte prosecution of the application. Presumably the Examiner of Interferences will discharge that duty in the instant case. In so doing he will have access to the publications now relied upon by petitioner, which were not called to the attention of the Examiner of Trade-Marks. As to what his ruling should be I express no opinion."

EX PARTE THE DOBECKMUN COMPANY, Serial No. 438,614.

In a decision rendered May 13, 1942 (163 Ms. Dec. 955, 53 U. S. P. Q. 476), *First Assistant Commissioner Frazer* denied a petition brought by The Dobeckmun Company, of Cleveland, Ohio. As stated by the First Assistant Commissioner, that company applied for registration of the word "Plasticolor" as a trade-mark for "cover paper comprised of transparent sheeting laminated to paper." The Examiner of Trade-Marks rejected the application in view of the prior registration to Riegel Paper Corporation of a somewhat similar mark for related merchandise. Thereupon, applicant submitted a letter from Riegel Paper Corporation, signed by its advertising manager, stating

"that we would have no objection to your using the name 'Plasti-Color' on your new laminated cover."

The Examiner refused to accept this letter as "a consent to register," and a second letter was submitted in which Riegel Paper Corporation's advertising manager advised applicant that

"you have our permission to enter the word 'Plasticolor' as a trade-mark and we have no objection whatsoever to your use of this name."

The Examiner found this second letter objectionable because it was not signed by an officer of the corporation and because it used the words "permission to enter" instead of "consent to register." The Examiner required a new letter of consent so signed and worded.

With respect to the petition by the Dobeckmun Company, the First Assistant Commissioner stated:

"Instead of doing the simple and obvious thing of complying with the Examiner's requirement, applicant petitions that the Examiner be instructed to accept the consent as filed. Applicant argues that the words 'enter' and 'register' are synonymous in meaning, and that 'it would certainly appear that no agent of the registrant corporation would have more authority to determine for the corporation the markets in which its trade-marked goods would be sold and whether there would be any likelihood of confusion between its trade-mark and applicant's trade-mark.' Quoting further from the brief:

"'It is admitted that in many instances, an advertising manager may not have authority to act and bind his corporate principal, but it is submitted there is no particular magic in the signature of a corporation's officer. The test of the binding nature of a corporation's agent's act is not determined by the status of the agent, i. e., whether the agent is an elected officer or an appointed department manager, but by whether or not the act was done within the scope of the agent's apparent authority.'

"I am constrained to agree with the Examiner that in so far as the record discloses the advertising manager of Riegel Paper Corporation has no authority to 'sign away its rights,' and I think the Examiner acted wisely in requiring the signature of an officer of the corporation. As to the words 'enter' and 'register,' it is true that in one sense they do have the same meaning. But the law recognizes no such thing as entering trade-marks; it provides for their registration.

"If Riegel Paper Corporation is willing to consent to the registration of applicant's mark, no reason is made to appear why it should not say so, officially, and in appropriate language."

C. B. SHANE CORPORATION *v.* ELLIS COAT CO., INC., Opposition No. 20,017.

In a decision rendered May 15, 1942 (163 Ms. Dec. 956, 53 U. S. P. Q. 525), *Assistant Commissioner Van Arsdale* reversed the decision of the Examiner of Trade-Mark Interferences and thereby sustained the opposition of C. B. Shane Corporation, of Chicago, Ill., to the application of Ellis Coat Co., Inc., of Manchester, Conn., for registration of the trade-mark "Twin Season" for ladies' coats.

Opposer based its opposition on its registered trade-mark "Season Skipper" for men's, boys', women's and girls' overcoats and topcoats. The Assistant Commissioner held that opposer had established ownership and use of its mark several years prior to the time applicant first adopted and used its mark. He also held that the goods of the parties are of the same descriptive properties and concluded that the sole issue related to the question of confusing similarity between the marks "Twin Season" and "Season Skipper." In deciding this issue adversely to the applicant, the Assistant Commissioner stated:

"The Examiner held the marks not confusingly similar because he considered the word 'Season' not to be dominant in either mark. Applicant goes further and asserts the word 'Season' is descriptive of clothing. I am not informed what attribute of topcoats or overcoats is described by the word 'Season' or what is the descriptive significance of that word in relation to such garments, and I am unable to comprehend any meaning of the word 'Season' that is descriptive of topcoats or overcoats. The Examiner and applicant have referred to the fact that quite a few other persons have included the word 'Season' in their registered trade-marks for fabrics, piece goods and various items of clothing, but not including topcoats or overcoats. Such registrations by others, however, hardly render the word descriptive of any attribute of topcoats or overcoats or have caused the word 'Season' to mean generally an item of clothing, or specifically a topcoat or overcoat.

"I consider the word 'Season' in the marks under consideration to be at least as dominant therein as the other words of the marks, namely 'Twin' and 'Skipper,' and to contribute to the trade-mark significance of the marks as a whole. Also, the marks appear to have the similar suggestiveness of indicating that the garments are suitable for more than one season of the year. Incidentally it is noted that opposer's president testified the expression 'Season Skipper' was intended to mean a topcoat which because of having a detachable lining was suitable for wear at all seasons.

"In my opinion the word 'Season' is so prominent in each of the marks and their suggestive meaning is so alike that despite the dissimilarity of the words 'Twin' and 'Skipper' and the fact that the word 'Season' follows the word 'Twin' in the one mark and precedes the word 'Skipper' in the other, likelihood of confusion by the concurrent use of the marks on topcoats and overcoats is quite possible."

With reference to certain evidence offered by opposer, the Assistant Commissioner had the following to say:

"Opposer has presented evidence concerning a psychological test or experiment purporting to show that among a group of individuals who were first shown a series of trade-marks among which was the mark 'Season Skipper' and later were shown another series of marks including the mark 'Twin Season' a small minority of the group indicated they had seen the mark 'Twin Season' in the first series of marks. I consider this evidence wholly inconclusive and of no probative force and to be incompetent as evidence of confusing similarity of the marks."

MEDALLION WINE CORPORATION *v.* WALBAUM, GOULDEN & CO. (CHAMPAGNE HEIDSIECK & CO. MONOPOLE, ASSIGNEE, SUBSTITUTED), Cancellation No. 3633.

In a decision rendered May 20, 1942 (163 Ms. Dec. 959, 53 U. S. P. Q. 526), *First Assistant Commissioner Frazer* denied a petition brought by the Medallion Wine Corporation, of New York, N. Y., the applicant for cancellation of three trade-mark registrations issued to Walbaum, Goulden & Co., of Reims, France, under the act of February 20, 1905, and assigned to Champagne Heidsieck & Co. Monopole, of Lyon, France. As stated by the First Assistant Commissioner, the applicant, Medallion Wine Corporation, submitted certain interrogatories directed to an officer of the respondent corporation, Champagne Heidsieck & Co. Monopole. The Examiner of Trade-Mark Interferences sustained respondent's exceptions to all the proposed interrogatories. By its petition, Medallion Wine Corporation sought a reversal of that action.

The First Assistant Commissioner set forth the facts of the case and his rulings upon the petition as follows:

"Respondent's registrations are for champagne wines, and the registered marks all include the French word 'Monopole.' It is alleged in the petition for cancellation that respondent's use of the word is deceptive, in that it 'constitutes a claim by the user of the exclusive selling rights in the trade-marked commodity,' which rights respondent 'actually does not enjoy or possess.' It is further alleged that petitioner is using the same word as a part of its own trade-mark for the same goods, and 'has been given written notice of infringement' of respondent's marks by respondent's attorneys. In other words petitioner finds itself hampered in practicing the same deception of which it accuses respondent, and so deems itself injured by respondent's registrations.

"By the affirmative allegations of its own pleading petitioner thus disqualifies itself to maintain the proceeding. *Ubeda v. Zialcita*, 226 U. S. 452, 1913, C. D. 517; *The Federal Products Co. v. Lewis*, 57 App. D. C. 338, 23 Fed. (2d) 759; *Deitsch Brothers v. Loonen*, 39 App. D. C. 114, 1912 C. D. 531. And it would be idle indeed to require respondent to answer interrogatories based upon such a pleading."

EX PARTE EASTMAN KODAK COMPANY, Serial Nos. 445,386, 445,387, 445,388, 445,389, 445,390, and 445,391.

In a decision rendered May 20, 1942 (163 Ms. Dec. 958, 53 U. S. P. Q. 553), *First Assistant Commissioner Frazer* acted upon a petition brought by Eastman Kodak Company, of Rochester, N. Y. The petitioner prayed that prosecution be stayed in each of its six trade-mark applications, pending a decision on appeal to the Commissioner of a seventh application, which decision will determine the question of registrability with respect to all of the applications.

The First Assistant Commissioner noted that each of the six applications has received one office action, to which no response has been filed, and that within one year from the date of that action, applicant must respond in order to avoid abandonment. He stated that when that has been done, the petition, if renewed, will be granted to the extent that proceedings will be suspended in the Patent Office until after the disposition of the appeal.

HAMILTON WATCH COMPANY *v.* LONGINES-WITTNAUER WATCH CO., INC., Interference No. 3212.

In this interference proceeding, involving the application of Longines-Wittnauer Watch Co., Inc., of New York, N. Y., filed November 18, 1939, and

published January 16, 1940, for registration of the word "Mainliner" as a trade-mark for "watches and clocks," and the application of Hamilton Watch Company, of Lancaster, Pa., filed February 14, 1940, for registration of the same word as a trade-mark for "watches and watch parts," the Examiner of Trade-Mark Interferences ruled that Hamilton Watch Company was the owner of the trade-mark in issue and entitled to its registration, and that Longines-Wittnauer Watch Co., Inc., was not so entitled.

Upon appeal by Longines-Wittnauer Watch Co., Inc., *First Assistant Commissioner Frazer*, in a decision rendered May 25, 1942 (163 Ms. Dec. 960, 53 U. S. P. Q. 553), modified the decision of the Examiner. The First Assistant Commissioner adjudged that neither party to the proceeding was entitled to the registration for which it applied.

The First Assistant Commissioner agreed with the appellant, the Longines-Wittnauer Watch Co., Inc., that the appellee, Hamilton Watch Company, had by its testimony proved nothing more than use of the word "Mainliner" as a grade mark as of any time prior to appellant's filing date. He stated that what might have occurred since that time was immaterial in this proceeding. He said:

"Appellee manufactures a number of models, styles, and grades of watches, all of which are sold under its trade-mark 'Hamilton.' To distinguish among these various products, it has adopted certain names and numerals. It produces a so-called railroad watch known as '992,' and another known as 'Mainliner;' the chief difference between them being that the former carries a 21-jewel movement, and the latter a 23-jewel movement. Similar designations applied to other watches in precisely the same manner are frankly characterized by appellee's witnesses as grade marks; but because these two have been more widely advertised than some of the others, and because they are known to a special class of purchasers, appellee takes the position that they should be differently classified.

"While there is some evidence in appellee's record that the word 'Mainliner' indicates origin of the watches to which it is applied by appellee, the testimony as a whole is so indefinite and contradictory as to leave the matter in considerable doubt. It may well be that its invariable association with the name 'Hamilton' by appellee explains the fact that the word has come to mean a watch of appellee's manufacture, even though used as a grade mark.

* * * * * * *

"It must be remembered that as junior party the burden of proof rests upon appellee, and that all doubts must be resolved against it. *Brewster-Ideal Chocolate Co.* v. *Dairy Maid Confectionery Co.*, 20 C. C. P. A. 848, 62 Fed.(2d) 844. Thus resolving doubts, it is my opinion that appellee has failed to establish trade-mark use of the mark sought to be registered as of any time earlier than appellant's filing date. And while such use is alleged to have been commenced some twenty-eight months prior to that date, it is significant that appellee did not file its application until shortly after the publication of appellant's mark.

The First Assistant Commissioner noted that the appellant, Longines-Wittnauer Watch Co., Inc., took no testimony. He stated that, in the absence of evidence to the contrary, its sworn application for registration was sufficient proof that it was using the mark "Mainliner" as a trade-mark when its application was filed, citing *General Baking Co. v. Commander-Larabee Corporation*, 23 C. C. P. A. 973, 82 Fed.(2d) 427. He added, however, that it did not necessarily follow that appellant was entitled to register the mark. On this matter he had the following to say:

"It is argued in appellant's brief that 'in determining the question of priority, the principal issue is whether the junior party has established that prior to the senior party's filing date the junior party made use of the name "Mainliner" as a trade-mark, for obviously even if the junior party used the name prior to the senior party's filing date but did not, prior to that date, use the name as a trade-mark priority must be awarded to the senior party.' As supporting authority appellant cites the case of *Norwine Coffee Co. v. Chase & Sanborn*, 19 C. C. P. A. 1198, 58 Fed.(2d) 430. That was a trade-mark interference proceeding in which the Court of Customs and Patent Appeals, reversing the Commissioner of Patents, awarded 'priority and right of registration' to the senior party, notwithstanding the fact that the junior party had used the mark there in issue, as a grade mark, for some three years before its adoption and use as a trade-mark by the senior party. That case, however, was overruled by necessary implication in *The Coshocton Glove Co.* v. *Buckeye Glove Co.*, 24 C. C. P. A. 1338, 90 Fed.(2d) 660, where the same court, five years later, in an opinion written by the same judge, again reversed the Commissioner, and held that under circumstances similar to those of *Norwine Coffee Co.* v. *Chase & Sanborn*, neither party was entitled to registration. The court there said:

"'It is our view that, under the facts developed here, neither party has shown itself entitled to claim ownership and, therefore, exclusive use of the mark. Appellant did not own the mark at the time of filing its application because it had not used it as a technical trade-mark. This it did not attempt to do prior to the date claimed by appellee. On the other hand, appellee, at the time it claims to have adopted the mark, had no right to appropriate it to its exclusive use because of appellant's prior use of it to indicate a grade, or model, of its merchandise.'

"The same situation exists here. While appellee has not succeeded in establishing its own right to register the mark in issue, it has nevertheless proved that it had used the mark, before appellant's date of first use, in such a manner as to bar registration to appellant."

ALLEN LABORATORIES INCORPORATED *v.* THE PERSONAL PRODUCTS CORPORATION, Opposition No. 20,253.

In a decision rendered May 27, 1942 (163 Ms. Dec. 963, 53 U. S. P. Q. 556), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of Allen Laboratories Incorporated, of New York, N. Y., to the application of The Personal Products Corporation, of New Brunswick, N. J., for registration of the notation "Meds" as a trade-mark for tampons.

The opposition was predicated upon opposer's ownership of the trade-mark "Med-I-Pax," registered to opposer's assignor about two years prior to applicant's date of first use, for "medicated vaginal suppositories." Applicant pointed to the fact that, as actually used by opposer, the mark is "Medipax;" but the First Assistant Commissioner stated that, whatever effect might otherwise be attributed to this slight change, it is immaterial here, because opposer is still the owner of the mark as registered.

In agreeing with the Examiner that the opposition should be sustained, the First Assistant Commissioner said:

"Applicant's tampons are designed for catamenial use. Opposer's product includes a tampon, to which the medicated suppository is attached, and which serves to hold the suppository in position and to distribute the medicament after insertion. Mechanically and in general appearance the two devices are substantially the same. As stated by the Examiner, they are noncompetitive; but they are very closely associated in use, and may reasonably be assumed to be produced by the same manufacturer. I doubt that one would be mistaken for the other, but if sold under similar trade-marks I am convinced that there is at least some likelihood of confusion as to origin. In reaching this conclusion I have not overlooked existing differences in price and in methods of sale. Both are subject to change. Nor is it material that there is no evidence of actual confusion. *Kroger Grocery & Baking Co.* v. *Blue Earth Canning Co.*, 24 C. C. P. A. 1098, 88 Fed.(2d) 725.

"Applicant cites such cases as *Puerto Rico Distilling Co.* v. *The Coca-Cola Co.*, 28 C. C. P. A. 1143, 120 Fed.(2d) 370, to the effect 'that specific differences in goods which are of the same general descriptive character should be considered in connection with differences in marks in fairly determining the question of likelihood of confusion.' That rule is applicable here, because the goods of the parties are specifically different, and their marks are not identical. But there is another well-established rule requiring that doubts be resolved against the newcomer. Thus resolving doubts in the instant case, it is my opinion that applicant's mark, 'Meds,' and opposer's mark, 'Med-I-Pax' or 'Medipax,' are too nearly alike to be concurrently used on goods so nearly related as those to which such marks are respectively applied, without reasonable likelihood of resulting confusion."

CHARLES R. WALGREEN, JR., *v.* GREENWALD HOSIERY CO., INC., Opposition No. 19,888.

In a decision rendered May 27, 1942 (163 Ms. Dec. 965, 53 U. S. P. Q. 555), *First Assistant Commissioner Frazer* reversed the decision of the Examiner of Trade-Mark Interferences and thereby dismissed the opposition of Charles R. Walgreen, Jr., of Chicago, Ill., to the application of Greenwald Hosiery Co., Inc., of Scranton, Pa., for registration of the word "Waldgreen" as a trade-mark for various items of wearing apparel.

This opposition proceeding was originally instituted by said Charles R. Walgreen, Jr., and Walgreen Co., jointly; the notice of opposition alleging the appropriation by applicant of the surname and the corporate name of the respective opposers. Applicant moved to dismiss on the ground of misjoinder of parties. The Examiner of Trade-Mark Interferences denied the motion to dismiss but required the opposers "to make an election as to which * * * will continue to further contest this proceeding." The election was made and the proceeding was in effect dismissed as to Walgreen Co.

Before the First Assistant Commissioner both parties complained of the procedure adopted by the Examiner of Trade-Mark Interferences. The First Assistant Commissioner stated that opposer might not be heard to do so because he acquiesced. He said that applicant's argument in that regard need not be considered because, as presented, the opposition must be dismissed.

In dismissing the opposition, the First Assistant Commissioner stated:

"There is here no question of confusion in trade. The only question is whether or not 'Waldgreen' is opposer's name, and so forbidden registration by the proviso of section 5 of the act of February 20, 1905, 'that no mark which consists merely in the name of an individual * * * shall be registered.' If so the statutory bar to registration is absolute, and opposer need not prove that he would be damaged thereby; but otherwise I think such proof is necessary, and I find none in the record.

"Manifestly the two words 'Walgreen' and 'Waldgreen' are very similar, but they are not identical; and it will be observed that the quoted proviso of the statute makes no reference to marks that resemble the name of an individual. Registration is prohibited only where the mark 'consists merely' in such a name. 'Waldgreen' is not opposer's name; nor does it have any significance, so far as I am aware, as a surname or otherwise."

PRINCE MATCHABELLI INC., *v.* MARTIN DE BOTELHO, Opposition No. 20,369.

In a decision rendered May 29, 1942 (163 Ms. Dec. 966, — U. S. P. Q. —), *Assistant Commissioner Van Arsdale* reversed the decision of the Examiner of Trade-Mark Interferences and thereby dismissed the opposition by Prince Matchabelli Inc., of New York, N. Y., to the application of Martin de Botelho, also of New York, N. Y., for registration of a trade-mark for toilet preparations. The trade-mark applicant sought to register is a composite mark and, as described by the Assistant Commissioner:

"consists of the initials A de M arranged vertically in the center and framed on each side by a nude female figure in side view, facing outwardly, the figures having upstretched hands supporting a crown over the initials A de M. The crown of the mark consists of a jeweled circlet heightened with a plurality of upwardly and outwardly extending prongs or fingers which are ball-tipped."

As stated by the Assistant Commissioner, the opposer asserted ownership and prior use of a representation of a crown as its trade-mark for goods of the same descriptive properties as the goods named in applicant's application. The crown in opposer's mark the Assistant Commissioner described as follows:

"This crown is of a different type from the crown incorporated in applicant's mark, being of domed configuration and consisting of a circlet heightened with arched members meeting centrally some distance above the circlet and surmounted at the center with a globe and cross."

The Examiner based his decision sustaining the present opposition on res judicata. Judgments had been entered in favor of Prince Matchabelli Inc., in several previous opposition proceedings where the same trade-mark was relied upon by that opposer. In regard to these prior proceedings, the Assistant Commissioner said:

"It is of record that opposer on the basis of this trade-mark filed notices of opposition against registration by applicant of three composite trade-marks, each including a crown, and upon applicant's failure to file any answer or reply to the notices of opposition secured judgment in its favor on default. None of these other trade-marks of applicant included the initials 'A de M' or any female figures, and the crowns of those marks were of the dome-shaped type and not of the uncovered annular band type as in applicant's present mark. Practically the only similarity between applicant's present mark and those previous marks of applicant is that each includes a representation of a crown of some sort, the crowns, however, being of different types and design. The crowns of applicant's prior marks are much more similar to the crown of opposer's mark than is the crown of applicant's present mark."

The Assistant Commissioner added:

"The Examiner was of the opinion that the crown representation contained in applicant's present mark is at least as prominent a part of that mark as were the crown representations in the previous marks of applicant against which opposer secured the sustaining of its notices of opposition on default and therefore held that the question of applicant's right to registration of the mark presently applied for is res judicata, thus requiring sustaining of the notice of opposition herein."

In disagreeing with the position of the Examiner of Trade-Mark Interferences, the Assistant Commissioner stated:

"It seems to me the consideration should not have been restricted solely to a comparison of the relative prominence of the display of the crown representations in applicant's marks, but should have been extended at least to a comparison of the specific crown symbol of applicant's present mark with the specific crown symbols of applicant's previous marks and with opposer's specific crown symbol. It was opposer's specific crown representation that was involved in the prior opposition proceedings and the question of confusion therewith of applicant's marks by reason of the specific crown representations therein. To my mind the adjudications did not extend to applicant's use in a composite mark of any and all crown representations as prominently as the specific crown representations appeared in applicant's prior marks, particularly as it appears from the testimony that crown representations are in quite general use by the trade on cosmetic and toilet preparations.

"In my opinion the crown representation included in applicant's present mark is so radically and distinctively different from the crown representations of applicant's prior marks and from opposer's mark that res judicata does not apply to the present situation. See *A. Leschen & Sons Rope Company* v. *The American Steel and Wire Co.*, 19 C. C. P. A. 851, 55 F.(2d) 455, 418 O. G. 3. In that case opposer having used a red strand in rope as a trade-mark and asserting its trade-mark to consist of a strand of 'distinctive color' had previously successfully opposed registrations of a yellow strand and of a blue strand as trade-marks, but the court held the previous

decisions did not establish res adjudicata in an opposition against registration of a silver strand as a trade-mark, stating:

"The parties are the same, but the trade-marks are different, and we would not be justified in applying the doctrine of res adjudicata—'.

"It does not appear from the record that the goods of either party are known by the name 'Crown.' Opposer's goods are usually ordered by the name 'Matchabelli's.' Opposer has always used the one particular design of crown, and this design is considered distinctive."

In conclusion, the Assistant Commissioner stated that, considering applicant's mark in its entirety, it was his opinion that this mark is so dissimilar from appellant's crown trade-mark that there would be no likelihood of confusion or deception of purchasers resulting from the concurrent use of the marks on the goods to which they are applied.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 30, 1942

[VOL. 539. No. 5]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 451,351. THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Mar. 2, 1942.

PACKIT

FOR COTTON WADDING.
Claims use since July 1, 1941.

Ser. No. 452,353. HYGRADE SEED COMPANY, INC., Fredonia, N. Y. Filed Apr. 15, 1942.

"Make every plot a garden spot"

No claim is made to the word "Garden" apart from the mark.

FOR VEGETABLE AND FLOWER SEEDS.
Claims use since Jan. 3, 1942.

Ser. No. 452,463. AMERICAN WOOLEN COMPANY, New York, N. Y. Filed Apr. 21, 1942.

AMERLAC

FOR FIBROUS MATERIALS IN THE FORM OF FILAMENTS OF STAPLE OR LONGER LENGTHS PRODUCED FROM PROTEINACEOUS SUBSTANCES.
Claims use since Apr. 8, 1942.

Ser. No. 452,619. PEARCE & FRIEDMAN INC., New York, N. Y. Filed Apr. 27, 1942.

MEXAMIGO

FOR FINISHED AND PARTLY FINISHED PREPARED LEATHER.
Claims use since Mar. 18, 1942.

Ser. No. 452,622. RAYONIER INCORPORATED, San Francisco, Calif. Filed Apr. 27, 1942.

RAYOCORD

FOR WOOD PULP.
Claims use since Mar. 30, 1942.

CLASS 2

RECEPTACLES

Ser. No. 443,111. CHASE BRASS & COPPER CO. INCORPORATED, Waterbury, Conn. Filed Apr. 30, 1941.

CHASE

FOR BASE METAL SALT-AND-PEPPER SHAKERS, BASE-METAL GLASS-LINED OCCASIONAL BOXES FOR MISCELLANEOUS USE, BASE-METAL CANDY BOXES SOLD IN TRADE EMPTY, BASE-METAL LIPSTICK HOLDERS SOLD IN TRADE EMPTY, AND BASE-METAL ROUGE BOXES SOLD IN TRADE EMPTY.

Claims use on base-metal salt-and-pepper shakers since Apr. 24, 1934; on base-metal glass-lined occasional boxes for miscellaneous use since Aug. 28, 1934; on base-metal candy boxes sold in trade empty since Mar. 15, 1937; on base-metal lipstick holders sold in trade empty since Mar. 19, 1941; and on base-metal rouge boxes sold in trade empty since Mar. 19, 1941.

Ser. No. 444,519. ELIZABETH ARDEN SALES CORPORATION, New York, N. Y. Filed June 14, 1941.

GLASS HOUSE

FOR LIPSTICK CONTAINERS OF BASE METAL HAVING A TRANSPARENT PLASTIC REMOVABLE OUTER CASE, SOLD EMPTY.
Claims use since Feb. 7, 1941.

Ser. No. 452,128. "INTHEBAG" LAUNDRY SALES CO., New Orleans, La. Filed Apr. 3, 1942.

"Inthebag"

FOR LAUNDRY BAGS WHICH ARE BOTH SOLD AND LEASED (IN EMPTY CONDITION) IN INTERSTATE TRADE.
Claims use since Mar. 9, 1942.

Ser. No. 452,260. DEWEY AND ALMY CHEMICAL COMPANY, Cambridge, Mass. Filed Apr. 10, 1942. Under the act of February 20, 1905, as amended June 10, 1938.

CRY-O-PAK

No claim is made to the word "Pak" apart from the mark.

FOR CARTONS HAVING AN INNER IMPERMEABLE BAG OR LINER.

Claims use since July 2, 1940.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 452,884. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio. Filed May 8, 1942.

Firestone

FOR KEY CASES.

Claims use since Jan. 1, 1927.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 451,743. THE EXCELSIOR VARNISH WORKS, INC., Cleveland, Ohio. Filed Mar. 19, 1942.

DERMULSION

FOR SOLVENT, DETERGENT PREPARATION FOR REMOVING GREASE, GRIME, OIL, AND THE LIKE FROM THE HANDS AND THE SKIN AND HAVING ALSO ANTISEPTIC PROPERTIES, WHICH IS AN AID IN THE PREVENTION OF INFECTION AND DERMATITIS.

Claims use since Jan. 15, 1942.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 408,512. SHARP & DOHME, INCORPORATED, Philadelphia, Pa. Filed July 14, 1938.

B-G-PHOS

The letters "B" and "G" per se are disclaimed.

FOR PHARMACEUTICAL PREPARATIONS USEFUL AS TONICS INCLUDING AMONG OTHERS TONICS WHICH IMPROVE THE APPETITE AND STIMULATE THE DIGESTIVE FUNCTIONS.

Claims use since June 10, 1938.

Ser. No. 448,359. COCILANA, INC., Brooklyn, N. Y. Filed Nov. 3, 1941.

KOSILANA COUGH-NIPS

The words "Kosilana" and "Cough" are disclaimed apart from the mark.

FOR MEDICATED CANDY COUGH LOZENGES.

Claims use since Sept. 2, 1941.

Ser. No. 450,309. HARRY B. JACKSON, doing business as The E-Z Speedy Co., Cincinnati, Ohio. Filed Jan. 19, 1942.

E-Z SPEEDY

FOR CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS FOR RELIEF OF HEADACHES AND CONSTIPATION.

Claims use since Aug. 20, 1941.

Ser. No. 450,552. SCOTT & BOWNE, Bloomfield, N. J. Filed Jan. 28, 1942.

LINIMENTO DE SCOTT



The applicant is the owner of T. M. 342,040, effected under the 10-year proviso and including the name "Scott." No claim is made to the word "Linimento" apart from the mark.

FOR SKIN LINIMENT.

Claims use since Jan. 20, 1942.

Ser. No. 450,553. SCOTT & BOWNE, Bloomfield, N. J. Filed Jan. 28, 1942.

PECTORAL DE SCOTT



The applicant is the owner of T. M. 342,040 effected under the 10-year proviso and including the name "Scott." No claim is made to the word "Pectoral" apart from the mark.

FOR COUGH REMEDY.

Claims use since Dec. 17, 1941.

Ser. No. 450,554. SCOTT & BOWNE, Bloomfield, N. J. Filed Jan. 28, 1942.

UNGUENTO DE SCOTT



The applicant is the owner of T. M. 342,040, effected under the 10-year proviso and including the name "Scott." No claim is made to the word "Unquento" apart from the mark.

FOR SKIN OINTMENT.

Claims use since Jan. 20, 1942.

Ser. No. 450,772. L. SONNEBORN SONS, INC., New York, N. Y. Filed Feb. 5, 1942.

TEXTARID



PROCESSED WATER REPELLENT

No claim is made to the words "Processed Water Repellent" apart from the mark.

FOR CHEMICAL PRODUCT—NAMELY, A WATERPROOFING FINISHING MATERIAL FOR TEXTILES.

Claims use since May 18, 1939.

Ser. No. 451,851. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Mar. 23, 1942.

IRRADOL-A

The letter "A" is disclaimed apart from the mark.

FOR PREPARATION USED IN PREVENTION AND TREATMENT OF NUTRITIONAL DISTURBANCES.

Claims use since Nov. 14, 1928.

Ser. No. 451,853. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Mar. 23. 1942.

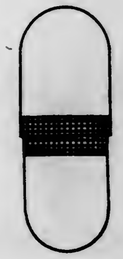


The trade-mark is applied to the goods by means of a white band encircling the capsule. The representation of the capsule is disclaimed.

FOR A PREPARATION CONTAINING THE VITAMIN B COMPLEX AND VITAMIN C USED IN TREATMENT OF CERTAIN VITAMIN DEFICIENCIES; A SEDATIVE AND ANALGESIC PREPARATION USED IN TREATMENT OF NERVOUS CONDITIONS ASSOCIATED WITH PAIN AND DISCOMFORT; A PREPARATION CONTAINING A SUBSTANCE POSSESSING VITAMIN K ACTIVITY USED IN TREATMENT OF VITAMIN K DEFICIENCIES.

Claims use since Dec. 6, 1935.

Ser. No. 451,854. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Mar. 23, 1942.



The trade-mark is applied to the goods by means of a black band encircling the capsule. The drawing is lined to indicate the color black. The representation of the capsule is disclaimed.

FOR A MULTIPLE VITAMIN PREPARATION USED IN TREATMENT OF VITAMIN DEFICIENCIES; A PREPARATION CONTAINING THE VITAMIN B COMPLEX USED IN TREATMENT OF CERTAIN VITAMIN DEFICIENCIES; AN IRON PREPARATION USED IN TREATMENT OF HYPOCHROMIC ANEMIAS; A PREPARATION CONTAINING CONCENTRATED ANTIANEMIC EXTRACT OF STOMACH TISSUE, AN IRON SALT, THIAMINE HYDROCHLORIDE, AND RIBOFLAVIN USED IN TREATMENT OF VARIOUS TYPES OF ANEMIA; AN ORAL ESTROGENIC PREPARATION FOR TREATMENT OF ENDOCRINE DEFICIENCIES.

Claims use since Sept. 23, 1931.

Ser. No. 451,855. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Mar. 23, 1942.

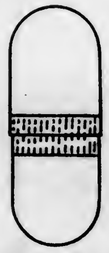


The trade-mark is applied to the goods by means of a yellow band encircling the capsule. The drawing is lined to indicate the color yellow. The representation of the capsule is disclaimed.

FOR A PREPARATION CONTAINING AN IRON SALT AND DESICCATED FRESH WHOLE BILE USED IN TREATMENT OF SECONDARY ANEMIA AND BILIARY DISTURBANCES; A PREPARATION CONTAINING PYRIDOXINE HYDROCHLORIDE USED IN TREATMENT OF CERTAIN VITAMIN DEFICIENCIES; A PREPARATION CONTAINING A STARCH DIGESTANT AND THE VITAMIN B COMPLEX FOR TREATMENT OF CERTAIN VITAMIN DEFICIENCIES AND DIGESTIVE DISTURBANCES.

Claims use since Feb. 12, 1940.

Ser. No. 451,856. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Mar. 23, 1942.



The trade-mark is applied to the goods by means of a lavender band encircling the capsule. The drawing is lined to indicate the color lavender. The representation of the capsule is disclaimed.

FOR A PREPARATION CONTAINING AN ORAL BACTERIAL VACCINE USED IN PREVENTION OF UPPER RESPIRATORY INFECTIONS.

Claims use since Sept. 20, 1934.

Ser. No. 452,271. SAMUEL LOSEFF, doing business as Loseff Laboratory, Chicago, Ill. Filed Apr. 10, 1942.

CAL-COLOID



The word "Coloid" is disclaimed apart from the mark.

FOR OINTMENTS FOR EXTERNAL USE IN THE TREATMENT OF IMPETIGO CONTAGIOSA, FOLLICULITIS, PUS INFECTIONS, PYOGENIC ULCERS, ECTHYMA, SYCOSIS, TINEA-FEET, SEBORRHEIC DERMATITIS, INFECTIONS ECZEMATOID DERMATITIS, ETC.

Claims use since Dec. 11, 1939.

Ser. No. 452,292. ELBERT H. PRATT, doing business as Arzone Products Co., Chicago, Ill. Filed Apr. 11, 1942.

GUARDEX

FOR MOTHPROOFING PREPARATIONS.

Claims use since Mar. 15, 1941.

Ser. No. 452,467. D'ORSAY SALES CORPORATION, New York, N. Y. Filed Apr. 21, 1942.

Intoxication

FOR PERFUMES, TOILET WATERS, COLOGNES, BATH POWDERS, TALCUM POWDERS, FACE POWDERS, BATH SALTS, ROUGE, LIPSTICKS, FACE CREAMS, AND HAND CREAMS.

Claims use since Mar. 27, 1942.

Ser. No. 452,743. COTY, INC., New York, N. Y. Filed May 2, 1942.

RED RIBBON

The word "Red" is disclaimed apart from the mark.

FOR FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES.

Claims use since Apr. 13, 1942.

Ser. No. 452,754. THE PURE OIL COMPANY, Chicago, Ill. Filed May 2, 1942.

PETROPON

FOR HYDROCARBON POLYMERS AND OTHER HEAVY OR VISCOUS MINERAL OIL PRODUCTS FOR USE IN THE INDUSTRIAL ARTS.

Claims use since Apr. 24, 1942.

Ser. No. 452,766. E. J. DAILEY, doing business as E. J. Dailey's Laboratories, San Diego, Calif. Filed May 4, 1942.

SUGRETUS

FOR MEDICINE FOR DIABETES.

Claims use since Apr. 1, 1939.

Ser. No. 452,770. BARRETT FISHER, doing business as Westville Laboratories, New Haven, Conn. Filed May 4, 1942.

APPLELOK

FOR SPRAY FOR APPLE AND OTHER FRUIT TREES.

Claims use since July 15, 1941.

Ser. No. 452,777. JANTZEN KNITTING MILLS, Portland, Oreg. Filed May 4, 1942.

JAN

FOR SUN TAN LIQUID CREAM ALSO USED FOR PROTECTING THE SKIN FROM THE SUN'S RAYS AND THE WEATHER.

Claims use since Mar. 30, 1942.

Ser. No. 452,783. BESSIE G. O'NEILL, doing business as Southwest Chemical Co., Eagle Rock, Calif. Filed May 4, 1942.

GOPHER-GO

FOR POISONED RAISIN AND BARLEY MIXTURE FOR THE CONTROL OF GOPHERS, PRAIRIE RATS, SQUIRRELS, AND MICE.

Claims use since Dec. 24, 1931.

Ser. No. 452,791. FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed May 4, 1942.

NEOZYME

FOR ENZYME PREPARATION FOR USE AS A PHARMACEUTICAL—NAMELY, A DIGESTIVE ENZYME.

Claims use since Apr. 24, 1942.

Ser. No. 452,792. FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed May 4, 1942.

PECTAMINE

FOR NUTRITIVE SOLUTION FOR INJECTION IN PATIENTS WHO ARE NOT RECEIVING PROPER NOURISHMENT ORALLY, AND AS A TRANSFUSION.

Claims use since Apr. 24, 1942.

Ser. No. 452,830. LEX LABORATORIES, INC., Flushing, N. Y. Filed May 6, 1942.

MULTI - LEX

FOR MEDICINAL COMPOUNDS OF MULTIPLE VITAMIN FACTORS.

Claims use since June 30, 1941.

Ser. No. 452,831. LEX LABORATORIES, INC., Flushing, N. Y. Filed May 6, 1942.

POLY-LEX

FOR MEDICINAL COMPOUNDS OF MULTIPLE VITAMIN FACTORS.

Claims use since June 30, 1941.

Ser. No. 452,837. QUEENS VITAMIN PRODUCTS, INC., Flushing, N. Y. Filed May 6, 1942.

V - ALL

FOR MEDICINAL COMPOUNDS OF MULTIPLE VITAMIN FACTORS.

Claims use since June 30, 1941.

Ser. No. 452,863. NATIONAL MINERAL COMPANY, Chicago, Ill. Filed May 7, 1942.

Textrol

FOR PERMANENT WAVING CURLING AGENT.

Claims use since May 15, 1941.

Ser. No. 452,869. PARFUMS SCHIAPARELLI, INC., New York, N. Y. Filed May 7, 1942.

Salut

FOR PERFUMES, TOILET WATERS, ROUGES, LIPSTICKS, FACE CREAM, FACE POWDERS, AND DUSTING POWDERS.

Claims use since Sept. 10, 1937.

Ser. No. 452,888. FOLEY & COMPANY, Chicago, Ill. Filed May 8, 1942.

BANNER

FOR COLD, COUGH, LUNG, AND BRONCHIAL MEDICINES, LAXATIVES AND CATHARTICS, SALVES FOR INJURIES TO AND DISEASES OF THE SKIN, COLIC, DIARRHEA, KIDNEY AND BLADDER MEDICINES, PREPARATIONS FOR THE TREATMENT OF PILES, COUGH DROPS, TOOTH PASTE, VITAMIN TABLETS, COLD CREAM, TALCUM POWDER, FACE POWDER, LIPSTICK, ROUGE AND PREPARATIONS FOR THE SKIN, HAIR AND NAILS.
Claims use since January, 1898.

Ser. No. 452,890. FRANKLIN LABORATORIES, INC., Hackettstown, N. J. Filed May 8, 1942.

S·P·R·A·C·E

FOR PHARMACEUTICAL PREPARATION USED IN THE TREATMENT OF HEMORRHOIDS.
Claims use since Apr. 9, 1942.

Ser. No. 452,909. ELIZABETH KENT, INC., New York, N. Y. Filed May 9, 1942.

Truly yours,

FOR PERFUME, TOILET WATER, FACE POWDER, TALCUM POWDER, LIPSTICKS, AND ROUGE.
Claims use since Apr. 8, 1942.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 451,414. F. A. JOSEPH, doing business as Safex Company, New York, N. Y. Filed Mar. 5, 1942.

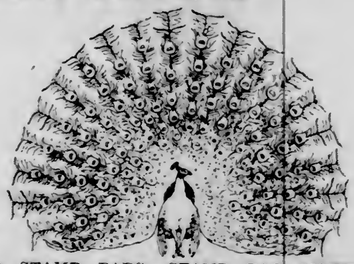
SAFEX

FOR GLASS ASH TRAYS.
Claims use since Dec. 1, 1941.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 449,391. PEACOCK LABORATORIES, INC., Philadelphin, Pa. Filed Dec. 11, 1941.



FOR STAMP PADS, STAMP PAD MOISTENER PREPARATION, AND STAMP PAD INK FOR MARKING THE SILVER OR OTHER REFLECTING FILMS ON THE BACKS OF MIRRORS.
Claims use since Nov. 3, 1941.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 444,960. BALTIMORE LUMBER COMPANY, Baltimore, Md. Filed June 30, 1941.



All words are disclaimed apart from the mark.
FOR LUMBER.
Claims use since Apr. 15, 1941.

Ser. No. 450,939. MICHEL & PFEFFER IRON WORKS, INC., San Francisco, Calif. Filed Feb. 13, 1942.



Applicant disclaims the words "Metal Products" apart from the mark.
FOR STRUCTURAL PARTS FOR STEEL BUILDINGS, STEEL DOORS, STEEL WINDOWS, AND STRUCTURAL STEEL.
Claims use since Dec. 1, 1941.

Ser. No. 451,483. ASH GROVE LIME & PORTLAND CEMENT COMPANY, Kansas City, Mo. Filed Mar. 9, 1942.

DURA WHITE

The word "White" is disclaimed except as used with the word "Dura."
FOR POWDERED CEMENT.
Claims use since Feb. 28, 1942.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 449,538. AUBURN CENTRAL MANUFACTURING CORPORATION, Connersville, Ind. Filed Dec. 17, 1941.



FOR COMBINED CABINETS AND SINKS.
Claims use since Feb. 28, 1941.

Ser. No. 450,774. WHITE MACHINE WORKS, Fort Wayne, Ind. Filed Feb. 5, 1942.

Strataflo

FOR CHECK AND FOOT VALVES, PUMP STRAINERS, WELL SCREENS AND WELL SEALS.
Claims use since Dec. 1, 1941.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 448,425. H. BOKER & CO., INC., New York, N. Y. Filed Nov. 6, 1941.

TWIN MO

FOR STEEL BARS, STEEL RODS, AND STEEL DRILL RODS.
Claims use since July 10, 1941.

Ser. No. 450,182. METALLIZING ENGINEERING COMPANY, INC., Long Island City, N. Y. Filed Jan. 13, 1942.

METCOLOY

FOR NICKEL-CHROMIUM AND CHROMIUM ALLOY WIRES USED IN THE MAKING OF SPRAY METAL COATINGS.
Claims use since Jan. 31, 1938.

CLASS 15

OILS AND GREASES

Ser. No. 448,871. THE NATIONAL REFINING COMPANY, Cleveland, Ohio. Filed Nov. 24, 1941.

NATIONAL EN-AR-CO TUNE

FOR FLUSHING AND LUBRICATING OIL.
Claims use since October, 1941.

Ser. No. 452,313. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla. Filed Apr. 13, 1942.

PHILGUN

FOR LUBRICANTS.
Claims use since Mar. 25, 1941.

Ser. No. 452,314. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla. Filed Apr. 13, 1942.

PHILSTIK

FOR LUBRICANTS.
Claims use since Mar. 25, 1941.

Ser. No. 452,315. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla. Filed Apr. 13, 1942.

PHILTRACK

FOR LUBRICANTS.
Claims use since Mar. 25, 1941.

Ser. No. 452,316. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla. Filed Apr. 13, 1942.

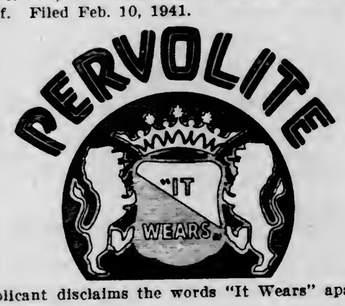
PHILUBE

FOR LUBRICANTS.
Claims use since Mar. 25, 1941.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 440,521. THE PERVO COMPANY, Los Angeles, Calif. Filed Feb. 10, 1941.



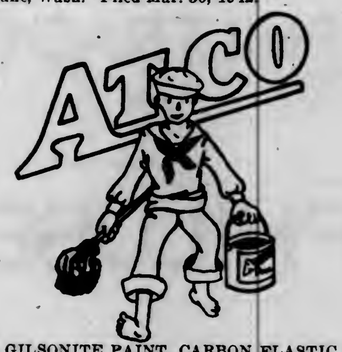
Applicant disclaims the words "It Wears" apart from the mark.
FOR PAINT PRODUCTS—NAMELY, ALUMINUM POWDER FOR MAKING PAINT, ALUMINUM PASTE FOR MAKING PAINT, BLACK PAINT, BRONZING LIQUID, CHRISTMAS TREE PAINT, DRY PAINT COLORS, GROUND COLOR, JAPAN DRIERS, PAINT ENAMELS, FLAT PAINT, CRACK FILLER, PASTE WOOD FILLER, FLATTING OIL, GLOSS OIL, GRAPHITE PAINT, KALSOMINE, LIQUID FOR BLENDING PAINTS, CLEAR LACQUER, LINOLEUM LACQUER, TRAFFIC LINE WHITE PAINT, LACQUER THINNER, LINSEED OIL, PIGMENT WALL SEALER, SURFACE SEALING MATERIAL FOR UNDERLYING PAINT MATERIAL, PIGMENT WALL SEALER REDUCER, PREPARED PAINT, LEAD AND ZINC PASTES FOR MAKING PAINT, WHITE AND RED LEAD, RUST INHIBITIVE BROWN METAL PRIMER, ROOF AND BARN PAINT, PAINT AND VARNISH REMOVER, STAINS, PREPARED SHELLAC, PAINT OILS, STAIN KILLING POWDER FOR USE IN MIXING PAINT MATERIAL, TURPENTINE, EXTERIOR UNDERCOATER AND PRIMER, VARNISHES, PROTECTIVE WAX FOR COVERING STRUCTURAL SURFACES, AND WHITING.
Claims use since June, 1939.

Ser. No. 450,266. TRUSCON LABORATORIES, INC., Detroit, Mich. Filed Jan. 16, 1942.

SPEED-REX

FOR SYNTHETIC RESINOUS COATING FOR MACHINERY IN THE NATURE OF AN ENAMEL THEREFOR.
Claims use since June, 1940.

Ser. No. 451,998. AMERICAN TAR COMPANY, Seattle and Spokane, Wash. Filed Mar. 30, 1942.



FOR GILSONITE PAINT, CARBON ELASTIC PAINT, STACK AND BOILER PAINT, LIGHT CREOSOTE OIL USED PRIMARILY AS A PAINT AND STAIN SOLVENT, AND TAR AND CREOSOTE USED PRIMARILY FOR PAINTING AND PRESERVING SHINGLES, FENCE POSTS, ETC.
Claims use since Mar. 1, 1922.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 448,352. ZENITH RADIO CORPORATION, Chicago, Ill. Filed Nov. 1, 1941.

ZENITH SHORTWAVE MAGNET

No claim is made to the word "Shortwave" apart from the mark.
FOR RADIO AND TELEVISION RECEIVING SETS AND PARTS THEREOF.
Claims use since Oct. 22, 1941.

Ser. No. 452,398. IRVINGTON VARNISH & INSULATOR CO., Irvington, N. J. Filed Apr. 17, 1942.

HYFLEX

FOR EXTRUDED PLASTIC TUBING FOR ELECTRICAL INSULATION.
Claims use since Mar. 11, 1942.

Ser. No. 452,399. IRVINGTON VARNISH & INSULATOR CO., Irvington, N. J. Filed Apr. 17, 1942.

TRANSFLEX

FOR EXTRUDED PLASTIC TUBING FOR ELECTRICAL INSULATION.
Claims use since Dec. 15, 1941.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 452,769. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio. Filed May 4, 1942.

Firestone

FOR PLAYING CARDS.
Claims use since May 8, 1935.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 445,611. THE NEW METHOD EQUIPMENT COMPANY, Indianola, Iowa. Filed July 24, 1941.

HAYMASTER

FOR FARM MACHINERY—NAMELY, HAY LOADERS, HAY AND STRAW STACKERS AND RAKES.
Claims use since June 17, 1941.

Ser. No. 449,205. FOSTER MACHINE CO., Westfield, Mass. Filed Dec. 5, 1941.

TENSIOMATIC

FOR YARN WINDING MACHINERY.
Claims use since Oct. 7, 1941.

Ser. No. 449,702. A. K. ROBINS & CO., INC., Baltimore, Md. Filed Dec. 22, 1941. Under 10-year proviso.

ROBINS

FOR CANNING MACHINERY—NAMELY, SPINACH WASHER, SPINACH SAND REMOVER, SPINACH BLANCHER, STEAM BLANCHER, SCALDER, STEAMER, ELEVATOR, ROTARY PEA AND BEAN WASHER, DISC EXHAUSTER, STRAIGHT LINE EXHAUSTER, CIRCLE STEAM HOIST, RETURN EXHAUSTER, PULP REMOVER, PULPER, PULP FINISHER, STRINGLESS BEAN CUTTER, BEAN SLITTER, CORN ON COB WASHER, CORN SILKER AND CLEANER, PINEAPPLE CORER.
Claims use since 1875.

Ser. No. 449,963. EMSCO DERRICK & EQUIPMENT COMPANY, Los Angeles, Calif. Filed Jan. 2, 1942.



FOR STEEL DERRICKS, SUB-STRUCTURES FOR STEEL DERRICKS, DRAWWORKS, POWER RIGS, CUSTOM BUILT POWER UNITS, REVERSE CLUTCHES, ROTARY MACHINES, SLUSH PUMPS, SWIVELS, CROWN AND TRAVELING BLOCKS, DRILL COLLARS, AND DRILL STEMS, OIL FIELD CHAIN, PUMPING UNITS AND PULLING MACHINES, ALL BEING STRUCTURES, MACHINES, MACHINE PARTS AND TOOLS ASSOCIATED WITH WELL DRILLING AND WELL PRODUCING RIGS FOR USE IN THE DRILLING AND OPERATION OF OIL WELLS.
Claims use since Apr. 1, 1928.

Ser. No. 4451,134. CHASE BRASS & COPPER CO. INCORPORATED, Waterbury, Conn. Filed Feb. 21, 1942.

CHASE

FOR BRONZE AND BRASS BUSHINGS, COPPER HAMMER HEADS, COPPER SOLDERING TOOLS, ICE TONGS FOR HOUSEHOLD USE, BASE METAL CHEESE KNIVES, BASE METAL SERVING FORKS AND SPOONS, BOTTLE OPENERS, BRONZE BOAT SHAFTING, NUT CRACKERS, HAND-OPERATED OILERS, HAND-OPERATED OIL GUNS, GREASE GUNS, TIRE PUMPS, FOOTBALL INFLATORS, AND HACK SAW BLADES.
Claims use on bronze and brass bushings since Jan. 24, 1930; on copper hammer heads since Feb. 18, 1930; on copper soldering tools since Nov. 11, 1930; on ice tongs for household use since June 12, 1934; on base metal cheese knives since Nov. 23, 1935; on base metal serving forks and spoons since Nov. 23, 1935; on bottle openers since Apr. 7, 1936; on bronze boat shafting since June 11, 1936; on nut crackers since Oct. 13, 1936; on hand-operated oilers since Apr. 23, 1940; on hand-operated oil guns since May 1, 1940; on grease guns since May 1, 1940; on tire pumps since May 1, 1940; on football inflators since May 1, 1940; and on hack saw blades since Dec. 16, 1941.

Ser. No. 451,834. H. BOKER & CO., INC., New York, N. Y. Filed Mar. 23, 1942.

TWIN MO

FOR STEEL DRILL RODS, AND STEEL TOOL BITS.
Claims use since July 10, 1941.

Ser. No. 452,520. BROWER MANUFACTURING CO., Quincy, Ill. Filed Apr. 23, 1942.

MOLAS-O-FIER

FOR MACHINE THAT MIXES MOLASSES INTO DAIRY AND HOG FEEDS.
Claims use since July, 1941.

Ser. No. 452,662. WINDSOR-LLOYD PRODUCTS, INC., Wilmington, Del. Filed Apr. 28, 1942.

PATROL

FOR CARBURETORS AND FUEL PUMPS FOR AUTOMOBILES.
Claims use since Apr. 1, 1942.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 443,630. COOK ELECTRIC COMPANY, Chicago, Ill. Filed May 16, 1941.

TEMPR UNER

FOR THERMOSTATS FOR USE IN HEATING SYSTEMS.
Claims use since March, 1941.

Ser. No. 452,404. REPUBLIC PICTURES CORPORATION, New York, N. Y. Filed Apr. 17, 1942.



FOR MOTION PICTURES AND MOTION PICTURE FILMS, WHICH HAVE RECORDS OF SOUND, WORDS AND/OR MUSIC THEREON, AND MOTION PICTURE FILMS ADAPTED FOR SYNCHRONIZATION WITH SOUND, WORDS, AND/OR MUSIC RECORDS.
Claims use since Nov. 10, 1941.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 452,683. L. G. BALFOUR COMPANY, Attleboro, Mass. Filed Apr. 30, 1942.

AIRFLOW

FOR JEWELRY FOR PERSONAL WEAR AND ADORNMENT, NOT INCLUDING WATCHES.
Claims use since Sept. 5, 1941.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 449,087. THE VILTER MANUFACTURING COMPANY, Milwaukee, Wis. Filed Dec. 1, 1941. Under 10-year proviso.

Vilter

FOR REFRIGERATING MACHINES, AIR-COOLERS

FOR REFRIGERATION EQUIPMENT, ICE-MAKING AND ICE-BRIQUETTING MACHINES, ICE DISINTEGRATORS AND DISTRIBUTORS, SLUSH ICE DEWATERERS, SAND COOLERS, ICE SKATING RINKS, BRINE COOLERS, AND GASEOUS REFRIGERANT COMPRESSORS.
Claims use since 1879.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 452,135. SAUGATUCK-DOUGLAS ARTS & CRAFTS COMPANY, Detroit, Mich. Filed Apr. 3, 1942.

RIVER GUILD



FOR CHAIRS, DESKS, TABLES, CHESTS, AND CABINETS.
Claims use since Mar. 1, 1942.

Ser. No. 452,745. THE DUPLI-SCORE, INC., St. Paul, Minn. Filed May 2, 1942.

DUPLI - SCORE

The word "Score" is disclaimed apart from the mark.
FOR BOWLING SCORE SHEET TABLES.
Claims use since Aug. 1, 1941.

Ser. No. 452,860. KOBACKER STORES, INC., TIEDTKE DIVISION, Toledo, Ohio. Filed May 7, 1942.

JUMBO
MATTRESS

Applicant disclaims the word "Mattress" apart from the mark.
FOR INNERCOIL AND INNERSPRING BED MATTRESSES.
Claims use since Mar. 17, 1937.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 443,553. CHASE BRASS & COPPER CO. INCORPORATED, Waterbury, Conn. Filed May 14, 1941.

CHASE

FOR PYROPHORIC CIGAR LIGHTERS, CANDLESTICKS, CONDENSER TUBES.
Claims use on pyrophoric cigar lighters since Oct. 11, 1932; on candlesticks since Oct. 18, 1935; and on condenser tubes since Apr. 10, 1941.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 442,476. THE ANCHOR PACKING COMPANY, Philadelphia, Pa. Filed Apr. 11, 1941.

VYB⚡REX

The prefix of the trade-mark comprises the letters "VYB."
FOR MACHINERY PACKING.
Claims use since Oct. 12, 1940.

Ser. No. 452,231. WOLVERINE FABRICATING & MFG. CO., INC., Detroit, Mich. Filed Apr. 8, 1942.

VULKOL

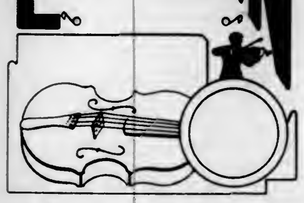
FOR SHEET PACKING AND GASKET MATERIAL COMPRISING A FIBER BASE SHEET COATED WITH A COMPRESSIBLE SEALING MATERIAL AND SHEET GASKETS CUT FROM SUCH SHEET PACKING MATERIAL.
Claims use since Mar. 26, 1942.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 450,805. E. & O. MARI, INC., Long Island City, N. Y. Filed Feb. 6, 1942.

CRITERION



FOR STRINGS MADE OF GUT, METAL OR OTHER MATERIALS, FOR MUSICAL INSTRUMENTS OF ALL SORTS AND DESCRIPTIONS.
Claims use since July 15, 1930.

Ser. No. 450,807. E. & O. MARI, INC., Long Island City, N. Y. Filed Feb. 6, 1942.

REGINA



FOR STRINGS MADE OF GUT, METAL OR OTHER MATERIALS, FOR MUSICAL INSTRUMENTS OF ALL SORTS AND DESCRIPTIONS.
Claims use since Apr. 4, 1941.

CLASS 37

PAPER AND STATIONERY

Ser. No. 448,898. BROWN COMPANY, Berlin, N. H. Filed Nov. 25, 1941.

AQUALIZED

FOR PAPER PRODUCTS—NAMELY, PAPERS FOR MAKING BAGS AND WRAPPING PAPERS.
Claims use since Oct. 1, 1938.

Ser. No. 452,588. W. A. SHEAFFER PEN COMPANY, Fort Madison, Iowa. Filed Apr. 25, 1942.

OSMALLOY

FOR FOUNTAIN PENS AND PENCILS.
Claims use since Apr. 15, 1942.

Ser. No. 452,682. AMERICAN WRITING PAPER CORPORATION, Holyoke, Mass. Filed Apr. 30, 1942.

EAGLE -A



PAPERS

The word "Papers" is disclaimed except as shown.
FOR WRITING AND PRINTING PAPER.
Claims use since June 6, 1940.

CLASS 39

CLOTHING

Ser. No. 430,446. GOODMAN & SUSS CLOTHES CORPORATION, New York, N. Y. Filed Apr. 6, 1940.

Kingcrest

FOR MEN'S COATS, VESTS, TROUSERS, OVERCOATS, AND TOPCOATS.
Claims use since 1930.

Ser. No. 442,257. ELLIS COAT CO., INC., Manchester, Conn. Filed Apr. 4, 1941.

CLIMATE-TAMER

The word "Climate" is disclaimed apart from the mark.
FOR LADIES' COATS, MEN'S COATS AND CHILDREN'S COATS.
Claims use since Feb. 10, 1941.

Ser. No. 442,622. BENJAMIN R. BRODY, New York, N. Y. Filed Apr. 16, 1941.



The drawing is lined for blue and gold. The words "Morning" and "Night" are disclaimed apart from the mark.
FOR WOMEN'S AND MISSES' WEARING APPAREL—NAMELY, HATS, BONNETS, BERETS, CAPS, HOODS, AND SNOODS, UNDERWEAR, VESTS, PANTIES, UNDERDRAWER STEP-INS, BRASSIÈRES, FOUNDATION GARMENTS, CORSETS, CHEMISES, NIGHT GOWNS, PAJAMAS, NEGLIGEES, DRESSING GOWNS, SLIPS, DRESSES, BLOUSES, SHIRTWAISTS, UNDERSKIRTS AND OUTSKIRTS, JACKETS, SPORT CLOTHES—NAMELY, SLACKS, PANTS, SHORTS AND VESTS, GLOVES MADE OF LEATHER OR FABRIC OR COMBINATIONS THEREOF, SWEATERS, OVERCOATS, RAINCOATS, RAIN CAPES, EVENING WRAPS, EVENING DRESSES, BELTS FOR OUTER WEAR, HANDKERCHIEFS, HAIR NETS, SHOES AND SLIPPERS MADE OF LEATHER OR FABRIC OR COMBINATIONS THEREOF, AND OVERSHOES.
Claims use since November, 1940.

Ser. No. 444,303. MABEL WINKEL & CO., New York, N. Y. Filed June 7, 1941.

Julianelli

The mark is a facsimile of the signature of Mabel Julianelli, partner in applicant firm.
FOR BOOTS, SHOES, AND SLIPPERS OF LEATHER, FABRIC, AND/OR COMBINATIONS THEREOF.
Claims use since Dec. 1, 1940.

Ser. No. 444,507. THE MANHATTAN SHIRT COMPANY, New York, N. Y. Filed June 13, 1941. Under section 5b of the act of 1905, as amended in 1920.

Manhattan

FOR ARTICLES OF WEARING APPAREL SPECIALLY DESIGNED FOR USE BY WOMEN—NAMELY, SKIRTS, BLOUSES, SHIRTS, AND PAJAMAS.
Claims use since May 20, 1941.

Ser. No. 452,328. OLIVE COAT CO., INC., New York, N. Y. Filed Apr. 14, 1942.

OLIVE

FOR LADIES' COATS.
Claims use since Jan. 1, 1935.

Ser. No. 452,364. SAMUEL SLATE, doing business as Bardon of Hollywood, Los Angeles, Calif. Filed Apr. 15, 1942.

California CHARROS

Applicant disclaims the word "California."
FOR MEN'S AND WOMEN'S OUTER SHIRTS, SLACKS, RIDING BREECHES, AND JACKETS.
Claims use since Mar. 23, 1942.

Ser. No. 452,668. FRENCH VEILING CORP., New York, N. Y. Filed Apr. 29, 1942.

NOLASTIC

FOR HAIR NETS.
Claims use since Apr. 21, 1942.

Ser. No. 452,767. EASTERN ISLES IMPORTING CO., INC., New York, N. Y. Filed May 4, 1942.

Blitzies

FOR WOMEN'S WEAR—NAMELY, BLOUSES, SHIRTWAISTS, PANTIES, AND COMBINATIONS THEREOF.
Claims use since February, 1942.

Ser. No. 452,805. MAX HAWTOF, Philadelphia, Pa. Filed May 5, 1942.

RAP-A-JAP

FOR MEN'S AND BOYS' PANTS, SUITS, TOPCOATS, AND OVERCOATS.
Claims use since Apr. 13, 1942.

Ser. No. 452,938. SAMETTE MANUFACTURING COMPANY, Allentown, Pa. Filed May 11, 1942.

Palette

FOR LADIES' UNDERWEAR—NAMELY, LADIES' SLIPS.
Claims use since May 4, 1942.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 449,425. B. KUGEL COMPANY, INC., New York, N. Y. Filed Dec. 12, 1941.

ADD-A-MOTIFS

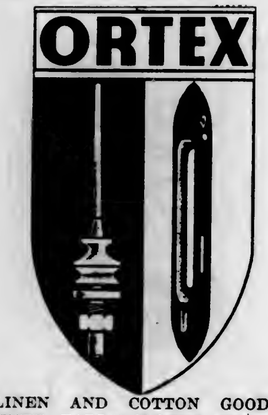
Applicant disclaims the word "Motifs" as used apart from the mark.
FOR MACHINE HEM-STITCHED TEXTILE MOTIFS FOR USE IN CROCHETING AND OTHER FANCY WORK.
Claims use since Dec. 3, 1941.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 451,057. ORIGINAL TEXTILE CORPORATION, Paterson, N. J. Filed Feb. 18, 1942.

ORTEX



FOR LINEN AND COTTON GOODS—NAMELY, TABLE LINEN, TABLE CLOTHS, BED LINEN, BED CLOTHES, BEDDING, SHEETING, TOWELS, AND THE LIKE.
Claims use since Jan. 9, 1942.

Ser. No. 451,102. CAPITOL PIECE DYE WORKS INC., New York and Garnerville, West Haverstraw, N. Y. Filed Feb. 20, 1942.

RAY-O-SET

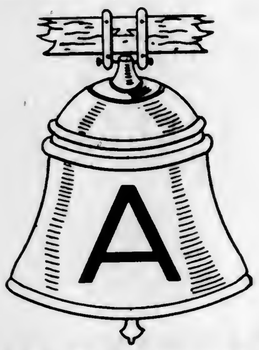
FOR PIECE GOODS, SILKS, RAYONS, AND COTTONS, AND MIXTURES THEREOF.
Claims use since June 1, 1940.

Ser. No. 451,289. CAMEO FABRICS, New York, N. Y. Filed Feb. 28, 1942.



The picture is fanciful. The word "Crepe" is disclaimed apart from the mark.
FOR WOVEN TEXTILE FABRICS IN THE PIECE OF ACETATE RAYON AND OTHER SYNTHETIC YARNS.
Claims use since April, 1941.

Ser. No. 451,435. BELLA AND COMPANY, New York, N. Y. Filed Mar. 6, 1942.



FOR UPHOLSTERY AND DRAPERY TEXTILE PIECE GOODS OF COTTON, RAYON, AND MOHAIR.
Claims use since August, 1936.

Ser. No. 451,688. PICARDY MILLS, INC., Brooklyn, N. Y. Filed Mar. 17, 1942.

Elvette

FOR DOUBLE WOVEN COTTON PIECE GOODS FOR GLOVES.
Claims use since Oct. 1, 1941.

Ser. No. 452,383. WULLSCHLEGER & Co., New York, N. Y. Filed Apr. 16, 1942.

JERISSA

FOR SILK, SATIN, RAYON, AND COTTON FABRICS, AND MIXTURES THEREOF, IN THE PIECE.
Claims use since Feb. 21, 1942.

Ser. No. 452,401. THE MILLVILLE MANUFACTURING COMPANY, Philadelphia, Pa. Filed Apr. 17, 1942.

ROYALSPUN

FOR DIAPER CLOTH OF COTTON AND RAYON, IN THE PIECE.
Claims use since Feb. 27, 1942.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 452,900. S. WILLIAM BLACKMAN, doing business as National Syringe & Glass Products Co., New York, N. Y. Filed May 9, 1942.

NASCO

FOR HYPODERMIC SYRINGES.
Claims use since Apr. 30, 1942.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 452,541. THE SQUIRT COMPANY, Beverly Hills, Calif. Filed Apr. 23, 1942.

Squirt

FOR NON-ALCOHOLIC GRAPEFRUIT DRINK AND BASES AND SIRUPS AND EXTRACTS FOR MAKING SAME.
Claims use since June 5, 1937.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 448,372. JOHN D. RICH, doing business as Saunemin Produce Company, Saunemin and Chicago, Ill. Filed Nov. 3, 1941.



The words "Brand" and "Packed for Saunemin Produce Company, Saunemin and Chicago, Ill." are disclaimed apart from the mark.
FOR CANNED FOOD PRODUCTS—NAMELY, CANNED FRUITS AND CANNED VEGETABLES.
Claims use since July 1, 1938.

Ser. No. 449,685. THE H & H GROCERY CO., Baltimore, Md. Filed Dec. 22, 1941.

NAVY GIRL



FOR CANNED FISH.
Claims use since October, 1938.

Ser. No. 449,993. KELLOGG COMPANY, Battle Creek, Mich. Filed Jan. 5, 1942.

GRO-CAT

The word "Cat" is disclaimed apart from the mark.
FOR FEEDS FOR CARNIVOROUS ANIMALS.
Claims use since August, 1922.

Ser. No. 449,994. KELLOGG COMPANY, Battle Creek, Mich. Filed Jan. 5, 1942.

GRO-KIT

The word "Kit" is disclaimed apart from the mark.
FOR FEEDS FOR CARNIVOROUS ANIMALS.
Claims use since August, 1922.

Ser. No. 450,632. QUALITY PRODUCTS, INC., La Feria, Tex. Filed Jan. 31, 1942.

TEXVITA

FOR GRAPEFRUIT JUICE FOR FOOD PURPOSES.
Claims use since Sept. 23, 1941.

Ser. No. 451,322. RFD FARM PRODUCTS, Glenview, Ill. Filed Feb. 28, 1942.

RFD Honey-Yum

No claim is made to the word "Honey" except as shown.
FOR SPREAD FOR BREAD, CRACKERS, COOKIES, AND THE LIKE COMPOSED OF CRYSTALLIZED HONEY, SALT, AND CERTIFIED FOOD COLORING.
Claims use since Dec. 20, 1941.

Ser. No. 452,172. RAHR MALTING CO., Manitowoc, Wis. Filed Apr. 6, 1942.



No claim is made to the wording "Manitowoc, Wis., U. S. A." nor to "Cereal Products Co." except as shown.
FOR MALT.
Claims use since Feb. 21, 1922.

Ser. No. 452,595. AMERICAN INDUSTRIES CORPORATION, San Francisco, Calif. Filed Apr. 27, 1942.

Four Monks

FOR VINEGAR.
Claims use since July 8, 1936.

Ser. No. 452,626. UDDO & TAORMINA COMPANY, Brooklyn, N. Y. Filed Apr. 27, 1942.

LA PATRIA NOSTRA

FOR CANNED OLIVE OIL.
Claims use since 1920.

Ser. No. 452,638. ANTONIO CORRAO, doing business as Universal Salad Oil Co., Brooklyn, N. Y. Filed Apr. 28, 1942.



The pictorial representation is fanciful. The word "Italia" is disclaimed apart from the mark.
FOR EDIBLE PEANUT OIL.
Claims use since Dec. 11, 1941.

Ser. No. 452,657. ALBERT W. SISK & SON, Preston, Md. Filed Apr. 28, 1942.

ROCKRIDGE

FOR CANNED TOMATOES.
Claims use since September, 1909.

Ser. No. 452,883. CRANBERRY CANNERS, INC., Hanson, Mass. Filed May 8, 1942.

Ocean Spray

FOR CANNED DEHYDRATED CRANBERRY FLAKES.
Claims use since Mar. 5, 1942.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JUNE 30, 1942

396,061. OUTER SHIRTS AND JACKETS. OBERMAN & COMPANY, Jefferson City, Mo.
Filed January 30, 1937. Serial No. 388,364. PUBLISHED APRIL 14, 1942. Class 39.

396,062. PUNCH BOARDS. RICHARD F. CONWAY, Chicago, Ill.
Filed November 15, 1937. Serial No. 399,748. PUBLISHED MARCH 4, 1941. Class 22.

396,063. MEDICAL AND SURGICAL DRESSINGS, BANDAGES, AND PLASTERS, NON-MEDICATED. T. J. SMITH & NEPHEW, LIMITED, Hull, England.
Filed November 29, 1937. Serial No. 400,254. PUBLISHED FEBRUARY 22, 1938. Class 44.

396,064. COSMETICS—NAMELY, NIGHT CREAM, EXTRA RICH NIGHT CREAM, THROAT CREAM, CLEANSING CREAM FOR DRY SKIN, ETC. CARSON PIRIE SCOTT & COMPANY, Chicago, Ill.
Filed July 25, 1940. Serial No. 434,317. PUBLISHED APRIL 14, 1942. Class 6.

396,065. LUBRICANTS—NAMELY, LUBRICATING OILS AND GREASES. GULF OIL CORPORATION, Pittsburgh, Pa.
Filed August 29, 1940. Serial No. 435,499. PUBLISHED APRIL 21, 1942. Class 15.

396,066. ENAMEL ADAPTED FOR COATING FINGER NAILS, AND LIPSTICKS. REVLON PRODUCTS CORPORATION, New York, N. Y.
Filed September 19, 1940. Serial No. 436,143. PUBLISHED APRIL 21, 1942. Class 6.

396,067. LADIES', MISSES', AND JUNIORS' DRESSES AND WRAPS. PROM DANCE FROCKS, INCORPORATED, New York, N. Y.
Filed September 27, 1940. Serial No. 436,439. PUBLISHED DECEMBER 3, 1940. Class 39.

396,068. ASBESTOS-CEMENT SHINGLES SOLD IN CARTONS, BUNDLES, PACKAGES, OR THE LIKE. JOHNS-MANVILLE CORPORATION, New York, N. Y.
Filed November 7, 1940. Serial No. 437,656. PUBLISHED APRIL 21, 1942. Class 12.

396,069. PERFUMES, TOILET WATER, COLOGNE, TALCUM POWDER, DUSTING POWDER, SACHETS. S. S. PIERCE CO., Boston, Mass.
Filed November 23, 1940. Serial No. 438,183. PUBLISHED JANUARY 7, 1941. Class 6.

396,070. HYDRAULIC AND WATER-PROOFED MASONRY MORTAR AND COMPOSITION OR ADMIXTURE FOR INCORPORATION WITH CONCRETE MIX OR THE LIKE. JAMES RIVER HYDRATE & SUPPLY COMPANY, Indian Rock and Buchanan, Va.
Filed December 13, 1940. Serial No. 438,825. PUBLISHED APRIL 21, 1942. Class 12.

396,071. CHEMICAL PREPARATIONS DESIGNED TO BE APPLIED TO PRINTED MATTER, PICTURES, PAPERS, ETC., FOR RENDERING SAME GREASE, WATER AND VAPOR-PROOF AS WELL AS ALKALI, ACID, AND ALCOHOL RESISTANT. GEMLOID CORPORATION, Elmhurst, Long Island, N. Y.
Filed December 19, 1940. Serial No. 439,017. PUBLISHED APRIL 14, 1942. Class 6.

396,072. ALL KINDS OF WINES. SANCHEZ ROMATE HERMANOS, S. A., Jerez de la Frontera, Spain.
Filed December 21, 1940. Serial No. 439,075. PUBLISHED MARCH 31, 1942. Class 47.

396,073. ALL KINDS OF WINES. SANCHEZ ROMATE HERMANOS, S. A., Jerez de la Frontera, Spain.
Filed December 21, 1940. Serial No. 439,078. PUBLISHED MARCH 31, 1942. Class 47.

396,074. ALL KINDS OF WINES. SANCHEZ ROMATE HERMANOS, S. A., Jerez de la Frontera, Spain.
Filed December 21, 1940. Serial No. 439,079. PUBLISHED MARCH 31, 1942. Class 47.

396,075. ELECTRIC SWITCHES FOR ACTUATOR MECHANISMS FOR ELECTRIC SWITCHES, HOUSINGS FOR ELECTRIC SWITCHES, ETC. MICRO-SWITCH CORPORATION, Freeport, Ill.
Filed January 2, 1941. Serial No. 439,353. PUBLISHED APRIL 7, 1942. Class 21.

396,076. ELECTRIC SWITCHES. MICRO SWITCH CORPORATION, Freeport, Ill.
Filed January 2, 1941. Serial No. 439,355. PUBLISHED APRIL 7, 1942. Class 21.

396,077. BLACK CARBON PIGMENT FOR USE IN THE INDUSTRIAL ARTS. THE PEERLESS CARBON BLACK COMPANY, Pittsburgh, Pa.
Filed January 16, 1941. Serial No. 439,726. PUBLISHED APRIL 22, 1941. Class 6.

396,078. RUBBER SUBSTITUTES AND RUBBER COMPOSITION MATERIAL IN SHEET OR BLOCK FORM MADE UP OF A MIXTURE OF RUBBER AND OTHER INGREDIENTS. ANGIOLO TREVES, DARIO TREVES AND VITTORIO OVAZZA, Turin, Italy.
Filed January 28, 1941. Serial No. 440,035. PUBLISHED APRIL 7, 1942. Class 50.

396,079. ALKALINE EARTH METAL SILICATE HAVING PIGMENTARY PROPERTIES FOR GENERAL USE IN THE INDUSTRIAL ARTS. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa.
Filed February 1, 1941. Serial No. 440,210. PUBLISHED APRIL 14, 1942. Class 6.

396,080. TONGUE AND GROOVE AERATED CONCRETE PLANK. MARTIN FIREPROOFING CORPORATION, Buffalo, N. Y.
Filed February 19, 1941. Serial No. 440,785. PUBLISHED APRIL 8, 1941. Class 12.

396,081. ELECTRICAL SIGNAL RECEIVING UNITS—NAMELY, RADIO AND COMBINATION RADIO AND PHONOGRAPH SETS AND TELEVISION SETS. CENTURY RADIO CO. INC., Philadelphia, Pa.
Filed February 20, 1941. Serial No. 440,800. PUBLISHED MAY 20, 1941. Class 21.

396,082. ANALGESIC AND ANTIPYRETIC IN TABLET FORM TO BE USED ONLY BY OR ON THE PRESCRIPTION OF A PHYSICIAN. L. E. STOTLAR, doing business as Physicians Supply Company, Herrin, Ill.
Filed February 21, 1941. Serial No. 440,888. PUBLISHED MARCH 10, 1942. Class 6.

396,083. ELECTRIC LIGHTING FIXTURES. BENJAMIN ELECTRIC MFG. COMPANY, Des Plaines, Ill.
Filed February 27, 1941. Serial No. 441,041. PUBLISHED APRIL 21, 1942. Class 21.

396,084. ELECTRIC LIGHTING FIXTURES. BENJAMIN ELECTRIC MFG. COMPANY, Des Plaines, Ill.
Filed February 27, 1941. Serial No. 441,042. PUBLISHED APRIL 21, 1942. Class 21.

396,085. ELECTRIC LIGHTING FIXTURES. BENJAMIN ELECTRIC MFG. COMPANY, Des Plaines, Ill.
Filed February 27, 1941. Serial No. 441,043. PUBLISHED APRIL 21, 1942. Class 21.

396,086. ELECTRIC LIGHTING FIXTURES. BENJAMIN ELECTRIC MFG. COMPANY, Des Plaines, Ill.
Filed February 27, 1941. Serial No. 441,044. PUBLISHED APRIL 21, 1942. Class 21.

396,087. PERFUME. IRRESISTIBLE, INC., Jersey City, N. J.
Filed March 14, 1941. Serial No. 441,541. PUBLISHED APRIL 21, 1942. Class 6.

396,088. DISINFECTANT. JOSEPH UDDO, doing business as Johnson Chemical Co., Brooklyn, N. Y.
Filed April 28, 1941. Serial No. 443,060. PUBLISHED APRIL 21, 1942. Class 6.

396,089. COMBS; AND TOILET SETS EACH CONSISTING OF BRUSHES BACKED OR TRIMMED WITH NON-PRECIOUS METAL, COMB, NAIL FILE, AND SCISSORS, ALL IN A TOILET SET CONTAINER. CHASE BRASS & COPPER CO. INCORPORATED, Waterbury, Conn.
Filed April 30, 1941. Serial No. 443,114. PUBLISHED APRIL 14, 1942. Class 40.

396,090. FLUORESCENT LAMPS, ELECTRICAL LIGHTING FIXTURES, ELECTRICAL APPLIANCES—NAMELY, BULBS, STARTERS, ETC. AMERICAN FLUORESCENT LIGHTING CORPORATION, New York, N. Y.
Filed May 16, 1941. Serial No. 443,621. PUBLISHED APRIL 14, 1942. Class 21.

396,091. MEN'S, WOMEN'S, AND CHILDREN'S WASHABLE COTTON WORK UNIFORMS, APRONS, LINEN AND COTTON JACKETS. WHITEHOUSE MANUFACTURING COMPANY, Chicago, Ill.
Filed May 28, 1941. Serial No. 444,028. PUBLISHED APRIL 14, 1942. Class 39.

396,092. PORCELAIN COATED METAL SHEETS. TEXLITE, INCORPORATED, Dallas, Tex.
Filed May 31, 1941. Serial No. 444,104. PUBLISHED APRIL 21, 1942. Class 12.

396,093. PORCELAIN COATED METAL SHEETS. TEXLITE, INCORPORATED, Dallas, Tex.
Filed May 31, 1941. Serial No. 444,105. PUBLISHED APRIL 21, 1942. Class 12.

396,094. CHEESE. STELLA CHEESE COMPANY, Chicago, Ill.
Filed June 3, 1941. Serial No. 444,163. PUBLISHED APRIL 21, 1942. Class 46.

396,095. METHOXY ETHYL OLEATE. OHIO-APEX, INC., Nitro, W. Va.
Filed June 17, 1941. Serial No. 444,604. PUBLISHED NOVEMBER 25, 1941. Class 6.

396,096. ELECTRICALLY OPERATED OR ELECTRICALLY CONTROLLED APPARATUS AND PARTS THEREOF FOR INSTALLATION AS A UNIT IN HOLLOW TOY ARTICLES ADAPTED TO PRODUCE THEREIN ANIMATING ILLUSIONS OF SIGHT AND/OR SOUND. THE A. C. GILBERT COMPANY, New Haven, Conn.
Filed June 23, 1941. Serial No. 444,760. PUBLISHED APRIL 7, 1942. Class 21.

396,097. MEAT PRODUCTS—NAMELY, SAUSAGE. OSCAR MAYER & Co., Chicago, Ill.
Filed July 10, 1941. Serial No. 445,238. PUBLISHED APRIL 21, 1942. Class 46.

396,098. FLUID FLOWMETERS, RING-BALANCE METERS, CHART TYPE RECORDERS FOR RECORDING FLUID FLOW, PRESSURE, TEMPERATURE, FURNACE DRAFT, LIQUID LEVELS AND PERCENTAGE OF CO_2, PANEL ASSEMBLIES OF METERS AND RECORDERS, CHARTS FOR USE ON RECORDERS AND INTEGRATORS. REPUBLIC FLOW METERS COMPANY, Chicago, Ill.
Filed July 12, 1941. Serial No. 445,299. PUBLISHED OCTOBER 14, 1941. Class 26.

396,099. PARALLEL RULERS, STRAIGHTEDGES, T-SQUARES, PARALLEL RULING ATTACHMENTS, CABLES FOR PARALLEL RULING ATTACHMENTS, ETC. HAROLD L. DE LISLE, doing business as Engineering Sales Company, Sheboygan, Wis.
Filed July 14, 1941. Serial No. 445,319. PUBLISHED APRIL 21, 1942. Class 26.

396,100. METAL WORKING MACHINERY—NAMELY, LATHES, SHAPERS, MILLING MACHINES, ETC. DELAWARE MACHINERY CORPORATION, New York, N. Y.
Filed July 19, 1941. Serial No. 445,490. PUBLISHED APRIL 7, 1942. Class 23.

396,101. MANUALLY OPERABLE PNEUMATIC CONTROL VALVES EMPLOYED IN INDUSTRIAL MACHINERY, DRILL RIGS, EXCAVATING MACHINES, MACHINE TOOLS, HOISTS, BOATS, DREDGES, POWER SHOVELS, AND CRANES. THE WESTINGHOUSE AIR BRAKE COMPANY, Borough of Wilmerding, Pa.
Filed July 22, 1941. Serial No. 445,567. PUBLISHED APRIL 21, 1942. Class 23.

396,102. RADIATOR PREPARATIONS — NAMELY, ANTI-LEAK COMPOUNDS, ANTI-RUST COMPOUNDS, FLUSHING COMPOUNDS. COMMERCIAL SOLVENTS CORPORATION, New York, N. Y.
Filed July 28, 1941. Serial No. 445,685. PUBLISHED APRIL 21, 1942. Class 6.

396,103. ELECTRIC CONTACTS, ELECTRIC TUBE AND LAMP WELDS, FLUORESCENT POWDERS AND SOLUTIONS FOR TREATMENT OF INTERNAL SURFACES OF ELECTRIC DISCHARGE TUBES AND LAMPS, LEAD-WIRES, ELECTRODES AND TUBING FOR ELECTRIC DISCHARGE LAMPS AND TUBES; ELECTRIC SPOT WELDERS AND WELDING TIMERS. CALLITE TUNGSTEN CORPORATION, Union City, N. J.
Filed July 29, 1941. Serial No. 445,714. PUBLISHED APRIL 7, 1942. Class 21.

396,104. PIECE GOODS OF COTTON, WOOL, RAYON, SILK, AND COMBINATIONS THEREOF. HARRISON MILLS, INC., East Newark, N. J.
Filed August 4, 1941. Serial No. 445,938. PUBLISHED APRIL 21, 1942. Class 42.

396,105. INSECTICIDES. JACOBO BONIFACIO BLEA, doing business as California Pharmacal Company, Los Angeles, Calif.
Filed August 5, 1941. Serial No. 445,975. PUBLISHED MARCH 31, 1942. Class 6.

396,106. MANURE, COMPOST, AND PLANT PREPARATIONS MADE FROM FARM-YARD MANURE, QUARTZ, OAK BARKS, CAMOMILE, VALERIANA, YARROW, AND TERAXICUM OFFICINALIS, DESIGNED TO INCREASE THE FERTILIZING PROPERTIES OF COMPOST AND MANURE. BIO-DYNAMIC FARMING AND GARDENING ASSOCIATION, INC., Phoenixville, Pa.
Filed August 19, 1941. Serial No. 446,351. PUBLISHED APRIL 14, 1942. Class 10.

396,107. MACHINE TOOLS—NAMELY, GRINDING MACHINES FOR GENERAL METAL WORKING PURPOSES, INCLUDING TOOL AND CUTTER GRINDERS EXCLUSIVE OF ANY ABRADING ELEMENTS. THE CINCINNATI MILLING MACHINE CO., Cincinnati, Ohio.
Filed August 25, 1941. Serial No. 446,517. PUBLISHED APRIL 21, 1942. Class 23.

396,108. SOAP PACKED IN HOUSEHOLD SIZE PACKAGES. CHAS. W. YOUNG & Co., Philadelphia, Pa.
Filed August 30, 1941. Serial No. 446,712. PUBLISHED APRIL 21, 1942. Class 4.

396,109. GAS BURNERS, GAS BURNING HUMIDIFIERS, GARBAGE INCINERATORS, AND WATER HEATERS. AUTOGAS COMPANY, Chicago, Ill.
Filed September 5, 1941. Serial No. 446,788. PUBLISHED OCTOBER 21, 1941. Class 34.

396,110. APPARATUS IN TELEPHONE SYSTEMS—NAMELY, CABLE TERMINAL UNITS, SUB-STATION PROTECTORS, PROTECTED AND UNPROTECTED TERMINALS, AND MOUNTINGS THEREFOR. COOK ELECTRIC COMPANY, Chicago, Ill.
Filed September 15, 1941. Serial No. 447,042. PUBLISHED APRIL 14, 1942. Class 21.

396,111. STOCKINGS AND SOCKS. THOMAS SHERRIFF CUNNINGHAM, Stewarton, Scotland.
Filed October 11, 1941. Serial No. 447,695. PUBLISHED APRIL 14, 1942. Class 39.

396,112. AUTOMATIC REGULATORS FOR CONTROLLING THE SPEED OF ENGINE DRIVEN COMPRESSORS OR PUMPS. LE ROI COMPANY, West Allis, Wis.
Filed October 11. 1941. Serial No. 447,703. PUBLISHED APRIL 21, 1942. Class 23.

396,113. PACKAGE CONTAINING MINIATURE SAMPLES OF VARIOUS SHADES OF FACE POWDER. THE ARMAND COMPANY, Des Moines, Iowa.
Filed October 13, 1941. Serial No. 447,718. PUBLISHED APRIL 21, 1942. Class 6.

396,114. STAPLING MACHINES, STAPLE REMOVERS, PAPER PUNCHES, AND PENCIL SHARPENING MACHINES. METAL SPECIALTIES MANUFACTURING CO., Chicago, Ill.
Filed October 13, 1941. Serial No. 447,750. PUBLISHED APRIL 21, 1942. Class 23.

396,115. INTERNAL COMBUSTION ENGINE PISTONS, INTERNAL COMBUSTION ENGINE PISTON PINS, INTERNAL COMBUSTION ENGINE BEARINGS, VEHICLE WHEEL ALIGNERS AND INTERNAL COMBUSTION ENGINE CONNECTING RODS. THE TOLEDO STEEL PRODUCTS COMPANY, Toledo, Ohio.
Filed October 22, 1941. Serial No. 448,017. PUBLISHED APRIL 7, 1942. Class 23.

396,116. MEN'S NECKTIES. ISIDORE GOLDENBERG, New York, N. Y.
Filed October 23, 1941. Serial No. 448,045. PUBLISHED APRIL 21, 1942. Class 39.

396,117. DOLLS AND OTHER TOYS—NAMELY, STUFFED ANIMALS. LOLITA DUNCAN MUNFORD, Richmond, Va.
Filed October 27, 1941. Serial No. 448,162. PUBLISHED APRIL 21, 1942. Class 22.

396,118. ELECTRIC SIGNS WITH CHANGEABLE LETTER FEATURE. NATIONAL SCREEN SERVICE CORPORATION, New York, N. Y.
Filed October 28, 1941. Serial No. 448,202. PUBLISHED APRIL 14, 1942. Class 21.

396,119. PAINTS—NAMELY, WOOD OR CEMENT FLOOR PAINT, HOUSE PAINT, AND PAINT ENAMELS. OLD COLONY PAINT & CHEMICAL CO., Los Angeles, Calif.
Filed October 31, 1941. Serial No. 448,298. PUBLISHED FEBRUARY 3, 1942. Class 16.

396,120. FERTILIZERS. SUTTON & SONS LIMITED, Reading, England.
Filed November 1, 1941. Serial No. 448,347. PUBLISHED APRIL 21, 1942. Class 10.

396,121. MEN'S CLOTHING—NAMELY, MEN'S SUITS. ALFRED DECKER & COHN, INC., Chicago, Ill.
Filed November 10, 1941. Serial No. 448,501. PUBLISHED APRIL 14, 1942. Class 39.

396,122. MEN'S NECKTIES AND MUFFLERS. MCCURRACH ORGANIZATION INCORPORATED, New York, N. Y.
Filed November 10, 1941. Serial No. 448,514. PUBLISHED JANUARY 20, 1942. Class 39.

396,123. FIREBRICK, REFRACTORY TILE, REFRACTORY MATERIALS USED IN FURNACE CONSTRUCTION, INCLUDING REFRACTORY CEMENTS. FERRO ENAMEL CORPORATION, Cleveland, Ohio.
Filed November 13, 1941. Serial No. 448,605. PUBLISHED JANUARY 13, 1942. Class 12.

396,124. NECKTIES AND CRAVATS. HUT NECKWEAR CO. INC., New York, N. Y.
Filed November 13, 1941. Serial No. 448,614. PUBLISHED JANUARY 20, 1942. Class 39.

396,125. CANNED FRUITS. SCHUCKL & Co., INC., doing business as Sunnyvale Packing Company, San Francisco, Calif.
Filed November 21, 1941. Serial No. 448,805. PUBLISHED APRIL 21, 1942. Class 46.

396,126. DAIRY MACHINERY—NAMELY, MILK AND CREAM SEPARATORS. WARTSILA-YHTYMA O/Y-WARTSILA-KONCERNEN A/B, Vartsila, Finland.
Filed November 28, 1941. Serial No. 449,028. PUBLISHED APRIL 21, 1942. Class 23.

396,127. LUBRICATING OILS AND GREASES. FREEDOM OIL COMPANY, Freedom, Pa.
Filed November 29, 1941. Serial No. 449,045. PUBLISHED APRIL 21, 1942. Class 15.

396,128. HOSIERY. HANES HOSIERY MILLS CO., Winston-Salem, N. C., and New York, N. Y., assignors to Hanes Hosiery Incorporated, New York, N. Y., a corporation of New York.
Filed December 3, 1941. Serial No. 449,135. PUBLISHED APRIL 21, 1942. Class 39.

396,129. ELECTRIC LAMPS. RAFAEL ANGEL RODRIGUEZ, doing business as Electric & Automotive Products Co., New York, N. Y.
Filed December 3, 1941. Serial No. 449,156. PUBLISHED APRIL 14, 1942. Class 21.

396,130. ELECTRICAL AIR CIRCULATORY FANS. CIRCULATORS & DEVICES MFG. CORP., New York, N. Y.
Filed December 4, 1941. Serial No. 449,168. PUBLISHED APRIL 21, 1942. Class 21.

396,131. MACHINERY FOR SECURING THIN METALLIC PRINTING PLATES TO RIGID CURVED BACKING MEMBERS. ELECTROGRAPHIC CORPORATION, New York, N. Y.
Filed December 5, 1941. Serial No. 449,204. PUBLISHED APRIL 14, 1942. Class 23.

396,132. PERFUMES. PARFUMS MASSENET, INC., New York, N. Y.
Filed December 5, 1941. Serial No. 449,212. PUBLISHED APRIL 21, 1942. Class 6.

396,133. LIQUID CLEANER FOR REMOVING STAINS RESULTING FROM THE ACTION OF SILVERING SOLUTIONS FROM THE HANDS, ETC., OF THOSE ENGAGED IN MAKING MIRRORS. PEACOCK LABORATORIES, INC., Philadelphia, Pa.
Filed December 11, 1941. Serial No. 449,388. PUBLISHED APRIL 14, 1942. Class 4.

396,134. TARTARIC ACID, EPSOM SALTS, THIOUREA, TIN CHLORIDE, ROCHELLE SALT, LEAD NITRATE, SILVER NITRATE, SODIUM HYDROXIDE, AMMONIUM WATER, AND NITRIC ACID. PEACOCK LABORATORIES, INC., Philadelphia, Pa.
Filed December 11, 1941. Serial No. 449,390. PUBLISHED APRIL 14, 1942. Class 6.

396,135. AMMUNITION—NAMELY, SHOT CARTRIDGES. ANDOVER KENT INC., Middletown, Conn.
Filed December 16, 1941. Serial No. 449,510. PUBLISHED APRIL 14, 1942. Class 9.

396,136. GOAT'S MILK. JUAN M. CEBALLOS, doing business as Three Winds Dairy, Westbury, Long Island, N. Y.
Filed December 20, 1941. Serial No. 449,638. PUBLISHED APRIL 21, 1942. Class 46.

396,137. PIECE GOODS IN RAYON OR SILK OR COMBINATION THEREOF. PLYMOUTH DYE WORKS, INC., Paterson, N. J.
Filed December 22, 1941. Serial No. 449,699. PUBLISHED APRIL 21, 1942. Class 42.

396,138. LADIES' COTTON UNDER-GARMENTS—NAMELY, BRAS, "BRIEFS," TRUNKS, AND TIGHTS. ROLLINS HOSIERY MILLS, INC., Des Moines, Iowa.
Filed December 22, 1941. Serial No. 449,703. PUBLISHED APRIL 14, 1942. Class 39.

396,139. PREPARATION USED FOR THE TREATMENT OF ATHLETE'S FOOT. DRUG GUILD, INC., New York, N. Y.
Filed December 24, 1941. Serial No. 449,733. PUBLISHED APRIL 21, 1942. Class 6.

396,140. STOCK TONICS AND CONDITIONERS CONSISTING OF A MIXTURE OF POTASSIUM CARBONATE, POTASSIUM HYDROXIDE, ETC. WILLIAM J. SOLTER, doing business as Superior Products Company, Golden, Colo.
Filed December 26, 1941. Serial No. 449,788. PUBLISHED APRIL 14, 1942. Class 6.

396,141. INCANDESCENT ELECTRIC LIGHT BULBS. TESTED PAPERS OF AMERICA, INC., Chicago, Ill.
Filed December 27, 1941. Serial No. 449,813. PUBLISHED APRIL 14, 1942. Class 21.

396,142. ELECTRIC GENERATORS, SPARK PLUGS, RADIO RECEIVING SETS, AND WET AND DRY STORAGE BATTERIES. ECONOMY AUTO STORES, INC., Atlanta, Ga.
Filed December 31, 1941. Serial No. 449,900. PUBLISHED APRIL 14, 1942. Class 21.

396,143. TEA. THOMAS J. LIPTON, INC., Hoboken, N. J.
Filed December 31, 1941. Serial No. 449,907. PUBLISHED APRIL 21, 1942. Class 46.

396,144. TEA. THOMAS J. LIPTON, INC., Hoboken, N. J.
Filed December 31, 1941. Serial No. 449,908. PUBLISHED APRIL 21, 1942. Class 46.

396,145. TEA. THOMAS J. LIPTON, INC., Hoboken, N. J.
Filed December 31, 1941. Serial No. 449,909. PUBLISHED APRIL 21, 1942. Class 46.

396,146. TEA. THOMAS J. LIPTON, INC., Hoboken, N. J.
Filed December 31, 1941. Serial No. 449,910. PUBLISHED APRIL 21, 1942. Class 46.

396,147. LACES IN THE PIECE. I. ZENDMAN, INC., New York, N. Y.
Filed December 31, 1941. Serial No. 449,934. PUBLISHED APRIL 7, 1942. Class 42.

396,148. BOWLING ALLEYS. FORREST NALL, Kansas City, Mo.
Filed January 2, 1942. Serial No. 449,968. PUBLISHED APRIL 21, 1942. Class 22.

396,149. BUILDING BLOCK FOR PLASTIC FLOORS OR ROOFS. JOHN J. WIDMAYER, doing business as Widmayer Steel Company, Washington, D. C.
Filed January 3, 1942. Serial No. 449,984. PUBLISHED APRIL 7, 1942. Class 12.

396,150. INSECTICIDES. STANLEY HOME PRODUCTS, INC., Westfield, Mass.
Filed January 6, 1942. Serial No. 450,030. PUBLISHED APRIL 14, 1942. Class 6.

396,151. PIECE GOODS OF SPUN RAYON FABRICS. THE BARBIZON CORPORATION, New York, N. Y.
Filed January 9, 1942. Serial No. 450,086. PUBLISHED APRIL 21, 1942. Class 42.

396,152. CLOTH FINISHING MACHINES ACTING TO SPONGE THE CLOTH. PARKS AND WOOLSON MACHINE CO., Springfield, Vt.
Filed January 9, 1942. Serial No. 450,113. PUBLISHED APRIL 21, 1942. Class 23.

396,153. PHYSICAL TRAINING STRUCTURES. POTOMAC ENGINEERING SERVICE COMPANY, Chicago, Ill.
Filed January 10, 1942. Serial No. 450,146. PUBLISHED APRIL 21, 1942. Class 12.

396,154. PORTABLE HAND OPERATED FIRE EXTINGUISHERS. ATLAS SUPPLY COMPANY, Newark, N. J.
Filed January 12, 1942. Serial No. 450,154. PUBLISHED APRIL 21, 1942. Class 23.

396,155. FLOOR TILES. DAVID E. KENNEDY, INC., Brooklyn, N. Y.
Filed January 12, 1942. Serial No. 450,163. PUBLISHED APRIL 21, 1942. Class 12.

396,156. MEN'S PAJAMAS. THE ENRO SHIRT COMPANY, INC., Louisville, Ky.
Filed January 13, 1942. Serial No. 450,178. PUBLISHED APRIL 21, 1942. Class 39.

396,157. SELVAGE STRIPS CUT FROM LENGTHS OF PIECE GOODS AND PLACED IN TRANSPARENT PACKAGES TO BE USED IN CROCHETING, KNITTING, PUNCHWORK AND WEAVING. CLARENCE M. MORETTI, doing business as Selvo Co., San Francisco, Calif.
Filed January 13, 1942. Serial No. 450,185. PUBLISHED APRIL 21, 1942. Class 43.

396,158. BEDSPREADS AND RUGS. CABIN CRAFTS, Dalton, Ga.
Filed January 15, 1942. Serial No. 450,222. PUBLISHED APRIL 21, 1942. Class 42.

396,159. DRY CELL AND WET STORAGE BATTERIES, ELECTRIC CURRENT RECTIFIERS, GENERATORS FOR ELECTRIC CURRENT, ETC. TECA CORPORATION, New York, N. Y.
Filed January 15, 1942. Serial No. 450,249. PUBLISHED APRIL 21, 1942. Class 21.

396,160. ELECTRICAL FENCE CHARGING APPARATUS AND EQUIPMENT COMPRISING ELECTRIC FENCE CONTROLLERS AND ASSOCIATED EQUIPMENT SUCH AS ELECTRONIC TUBES, WIRES, INSULATORS, TESTERS AND GROUND CLAMPS. FARMERS ENGINEERING & MANUFACTURING CO., Wilkinsburg, Pa.
Filed January 16, 1942. Serial No. 450,259. PUBLISHED APRIL 21, 1942. Class 21.

396,161. DRESS SHIELDS. RAND RUBBER COMPANY, Brooklyn, N. Y.
Filed January 20, 1942. Serial No. 450,344. PUBLISHED APRIL 14, 1942. Class 40.

396,162. PADDING CEMENT. CHAMPION MFG. CO., Charlotte, N. C.
Filed January 21, 1942. Serial No. 450,354. PUBLISHED APRIL 21, 1942. Class 5.

396,163. LADIES' AND MISSES' HATS. ASSOCIATED LERNER SHOPS OF AMERICA, INC., New York, N. Y.
Filed January 22, 1942. Serial No. 450,388. PUBLISHED APRIL 14, 1942. Class 39.

396,164. PRINTED FELT-BASE FLOOR COVERING. CARTHAGE MILLS INCORPORATED, Cincinnati, Ohio.
Filed January 22, 1942. Serial No. 450,390. PUBLISHED APRIL 14, 1942. Class 20.

396,165. ELECTRIC TACKING IRONS AND ELECTRIC IRONS FOR THERMOPLASTIC MOUNTING OR ATTACHING. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y.
Filed January 23, 1942. Serial No. 450,415. PUBLISHED APRIL 21, 1942. Class 21.

396,166. ELECTRIC TACKING IRONS, AND ELECTRIC IRONS FOR THERMOPLASTIC MOUNTING OR ATTACHING. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y.
Filed January 23, 1942. Serial No. 450,416. PUBLISHED APRIL 21, 1942. Class 21.

396,167. COSMETIC MITTENS CONTAINING BATH, TALCUM, FACE, AND DUSTING POWDERS. PARFUMS CHARBERT, INC., New York, N. Y.
Filed January 23, 1942. Serial No. 450,424. PUBLISHED APRIL 21, 1942. Class 6.

396,168. LADIES' AND MISSES' COATS, SUITS, AND SKIRTS. JOSEPH STEIN, doing business as Joseph Stein Coat Co., New York, N. Y.
Filed January 23, 1942. Serial No. 450,432. PUBLISHED APRIL 21, 1942. Class 39.

396,169. LAXATIVE. S. C. WELLS & COMPANY, Le Roy, N. Y.
Filed January 23, 1942. Serial No. 450,436. PUBLISHED APRIL 21, 1942. Class 6.

396,170. CONFECTION—NAMELY, CANDY BARS. HOLLY-CATER COMPANY, Cleveland, Ohio.
Filed January 24, 1942. Serial No. 450,449. PUBLISHED APRIL 21, 1942. Class 46.

396,171. CLEANSING, FOUNDATION, AND EMOLLIENT CREAMS FOR THE SKIN, SKIN FRESHENERS, ASTRINGENT AND ANTISEPTIC MOUTH WASHES, MINERAL OIL FOR MEDICINAL USE, MILK OF MAGNESIA, AND EXTRACT OF WITCH HAZEL. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed January 26, 1942. Serial No. 450,476. PUBLISHED APRIL 14, 1942. Class 6.

396,172. ELECTRICAL HEATING DEVICE WITH OPEN COIL HEATING ELEMENT AND RHEOSTAT CONTROL TO PROVIDE A SMALL, CONCENTRATED SOURCE OF HEAT FOR LABORATORY USE. FISCHER SCIENTIFIC COMPANY, Pittsburgh, Pa.
Filed January 26, 1942. Serial No. 450,478. PUBLISHED APRIL 21, 1942. Class 21.

396,173. THERAPEUTIC VITAMIN PREPARATION. SUNWAY VITAMIN CO., Chicago, Ill.
Filed January 26, 1942. Serial No. 450,496. PUBLISHED APRIL 14, 1942. Class 6.

396,174. TEXTILE FABRICS IN THE PIECE, OF RAYON, ACETATE, SILK, CREPE, COTTON, AND IN COMBINATIONS THEREOF. KLEIN BROTHERS TEXTILE CORP., New York, N. Y.
Filed January 27, 1942. Serial No. 450,509. PUBLISHED APRIL 21, 1942. Class 42.

396,175. COTTON TWINE. CLEMENT L. YANCEY, JR., doing business as Greensboro Cotton Twine Company, Greensboro, N. C.
Filed March 18, 1942, Serial No. 451,734. PUBLISHED MAY 5, 1942. Class 7.

396,176. POWER TRANSMISSION MACHINERY COMPRISING ROTARY SHEAVES. ALLIS-CHALMERS MANUFACTURING COMPANY, Milwaukee, Wis.
Filed January 30, 1942. Serial No. 450,581. PUBLISHED APRIL 7, 1942. Class 23.

396,177. NON-ALCOHOLIC BEVERAGES AND THE BASES, SYRUPS, CONCENTRATES, AND/OR EXTRACTS FOR MAKING SAME. THE SQUIBT COMPANY, Beverly Hills, Calif.
Filed February 2, 1942. Serial No. 450,667. PUBLISHED APRIL 21, 1942. Class 45.

396,178. PREPARATIONS FOR THE HANDS AND FINGER NAILS COMPRISING NAIL POLISH, NAIL LACQUER, NAIL POLISH REMOVER, ETC. JAMES L. YOUNGHUSBAND, Chicago, Ill.
Filed February 2, 1942. Serial No. 450,670. PUBLISHED APRIL 14, 1942. Class 6.

396,179. LIQUID NAIL POLISHES. PEGGY SAGE, INC., Stamford, Conn.
Filed February 3, 1942. Serial No. 450,695. PUBLISHED APRIL 14, 1942. Class 6.

396,180. PORTABLE HOISTS AND CRANES. SILENT HOIST WINCH & CRANE CO., Brooklyn, N. Y.
Filed February 3, 1942. Serial No. 450,699. PUBLISHED APRIL 14, 1942. Class 23.

396,181. YARNS OF CELLULOSE. COURTAULDS, LIMITED, London, England.
Filed February 4, 1942. Serial No. 450,712. PUBLISHED APRIL 14, 1942. Class 43.

396,182. RAYON YARNS. COURTAULDS, LIMITED, London, England.
Filed February 4, 1942. Serial No. 450,716. PUBLISHED APRIL 14, 1942. Class 43.

396,183. RAYON YARNS. COURTAULDS, LIMITED, London, England.
Filed February 4, 1942. Serial No. 450,718. PUBLISHED APRIL 14, 1942. Class 43.

396,184. YARNS OF CELLULOSE. COURTAULDS LIMITED, London, England.
Filed February 4, 1942. Serial No. 450,720. PUBLISHED APRIL 14, 1942. Class 43.

396,185. YARNS OF CELLULOSE. COURTAULDS, LIMITED, London, England.
Filed February 4, 1942. Serial No. 450,722. PUBLISHED APRIL 14, 1942. Class 43.

396,186. YARNS OF CELLULOSE. COURTAULDS, LIMITED, London, England.
Filed February 4, 1942. Serial No. 450,724. PUBLISHED APRIL 14, 1942. Class 43.

396,187. PLATE GLASS SUBSTITUTE MADE FROM SYNTHETIC RESIN OR ANY OTHER MATERIAL. MAX B. HEIM, New York, N. Y.
Filed February 5, 1942. Serial No. 450,767. PUBLISHED APRIL 21, 1942. Class 50.

396,188. ANTISEPTIC, GERMICIDAL, AND FUNGICIDAL PREPARATION FOR USE ON TEXTILES, PLASTIC MATERIALS, LEATHER, RUBBER AND PAPER. LEO JACK RAMPEL, doing business as Perm-Aseptic Co., New York, N. Y.
Filed February 5, 1942. Serial No. 450,771. PUBLISHED APRIL 21, 1942. Class 6.

396,189. LADIES' HOUSE DRESSES AND APRONS. JEUDA TEXTILE CORPORATION, New York, N. Y.
Filed February 6, 1942. Serial No. 450,800. PUBLISHED APRIL 21, 1942. Class 39.

396,190. CANNED DOG FOOD. FOSTER CANNING COMPANY OF OHIO, Napoleon, Ohio.
Filed February 9, 1942. Serial No. 450,851. PUBLISHED APRIL 21, 1942. Class 46.

396,191. TRACING CLOTH AND PENCIL CLOTH. ARKWRIGHT FINISHING COMPANY, Providence, R. I.
Filed February 11, 1942. Serial No. 450,892. PUBLISHED APRIL 21, 1942. Class 37.

396,192. BANANAS. FRUIT DISPATCH COMPANY, New York, N. Y.
Filed February 11, 1942. Serial No. 450,896. PUBLISHED APRIL 21, 1942. Class 46.

396,193. MEN'S TOPCOATS AND OVERCOATS. STEIN BROS., New York, N. Y.
Filed February 11, 1942. Serial No. 450,911. PUBLISHED APRIL 14, 1942. Class 39.

396,194. YARNS, THREADS AND YARN AND THREAD FILAMENTS. AMERICAN VISCOSE CORPORATION, Wilmington, Del.
Filed February 12, 1942. Serial No. 450,916. PUBLISHED APRIL 7, 1942. Class 43.

396,195. MEN'S CLOTHING—NAMELY, OVERCOATS, TOPCOATS AND SUITS. JOSEPH H. COHEN & SONS, VANITY CLOTHES, INC., New York, N. Y.
Filed February 12, 1942. Serial No. 450,917. PUBLISHED APRIL 21, 1942. Class 39.

396,196. ARTIFICIAL LEATHER. THE PANTASOTE LEATHER COMPANY, Passaic, N. J.
Filed February 12, 1942. Serial No. 450,918. PUBLISHED APRIL 21, 1942. Class 50.

396,197. HAND OPERATED TOOLS—NAMELY, AXES, CULTIVATORS, CUTTERS, LETTUCE CUTTERS, ETC. THE UNION FORK & HOE COMPANY, Columbus, Ohio.
Filed February 12, 1942. Serial No. 450,930. PUBLISHED APRIL 21, 1942. Class 23.

396,198. LADIES' UNDERWEAR. ARNOLD M. ELBE CO. INC., New York, N. Y.
Filed February 14, 1942. Serial No. 450,960. PUBLISHED APRIL 14, 1942. Class 39.

396,199. PAPER CUTTERS, PAPER TRIMMERS, PAPER CHOPPERS, ROTARY PAPERBOARD CUTTERS, KNIFE GRINDERS, ETC. HARRIS-SEYBOLD-POTTER COMPANY, Cleveland, Ohio.
Filed February 14, 1942. Serial No. 450,964. PUBLISHED APRIL 21, 1942. Class 23.

396,200. TOILET TISSUE. LEADWAY STORES CORPORATION, also doing business as Leadway Foods, Chicago, Ill.
Filed February 14, 1942. Serial No. 450,970. PUBLISHED APRIL 21, 1942. Class 37.

396,201. LIPSTICK, ROUGE, NAIL POLISH, AND FACE POWDER. LEHN & FINK PRODUCTS CORPORATION, Bloomfield, N. J.
Filed February 14, 1942. Serial No. 450,971. PUBLISHED APRIL 21, 1942. Class 6.

396,202. ANTI-FREEZE, BRAKE FLUID, INSECT SPRAY. AMERICAN OIL COMPANY, Baltimore, Md.
Filed February 16, 1942. Serial No. 450,986. PUBLISHED APRIL 14, 1942. Class 6.

396,203. ANTI-FREEZE, BRAKE FLUID, INSECT SPRAY. AMERICAN OIL COMPANY, Baltimore, Md.
Filed February 16, 1942. Serial No. 450,988. PUBLISHED APRIL 14, 1942. Class 6.

396,204. NEGLIGEE DRESS SHIRTS. CLUETT, PEABODY & Co., INC., Troy, N. Y.
Filed February 16, 1942. Serial No. 451,002. PUBLISHED APRIL 21, 1942. Class 39.

396,205. AIR RIFLES. DAISY MANUFACTURING COMPANY, Plymouth, Mich.
Filed February 16, 1942. Serial No. 451,006. PUBLISHED APRIL 14, 1942. Class 9.

396,206. OXIDES OF IRON HAVING A GENERAL USE IN THE INDUSTRIAL ARTS. REICHARD-COULSTON, INC., New York, N. Y.
Filed February 16, 1942. Serial No. 451,019. PUBLISHED APRIL 21, 1942. Class 6.

396,207. INFANTS' AND CHILDREN'S KNITTED UNDERWEAR. E-CUT KNITTING MILLS, Royersford, Pa.
Filed February 18, 1942. Serial No. 451,048. PUBLISHED APRIL 21, 1942. Class 39.

396,208. WATCHES—NAMELY, WRIST OR STRAP WATCHES. BULOVA WATCH COMPANY, INC., New York, N. Y.
Filed February 19, 1942. Serial No. 451,072. PUBLISHED APRIL 21, 1942. Class 27.

396,209. APLITE. DOMINION MINERALS, INCORPORATED, Washington, D. C.
Filed February 19, 1942. Serial No. 451,075. PUBLISHED APRIL 21, 1942. Class 1.

396,210. HATS FOR WOMEN. HAT CORPORATION OF AMERICA, Norwalk, Conn.
Filed February 19, 1942. Serial No. 451,081. PUBLISHED APRIL 14, 1942. Class 39.

396,211. COTTON BATTING OR COTTON BATTS. LOCKPORT COTTON BATTING CO., Lockport, N. Y.
Filed February 19, 1942. Serial No. 451,083. PUBLISHED APRIL 21, 1942. Class 1.

396,212. COTTON BATTING OR COTTON BATTS. LOCKPORT COTTON BATTING CO., Lockport, N. Y.
Filed February 19, 1942. Serial No. 451,084. PUBLISHED APRIL 21, 1942. Class 1.

396,213. COAL. OLD BEN COAL CORPORATION, Chicago, Ill.
Filed February 19, 1942. Serial No. 451,087. PUBLISHED APRIL 21, 1942. Class 1.

396,214. SYNTHETIC ORGANIC CHEMICALS WHICH ARE ALKYLATED ACID AMIDES AND SUBSTANCES DERIVED THEREFROM. SHARPLES CHEMICALS INC., Philadelphia, Pa.
Filed February 19, 1942. Serial No. 451,091. PUBLISHED APRIL 21, 1942. Class 6.

396,215. CHEMICALS AND INSECTICIDES FOR SPRAYING AND DUSTING PURPOSES. CENTRAL CHEMICAL CORPORATION OF MARYLAND, Hagerstown, Md.
Filed February 20, 1942. Serial No. 451,103. PUBLISHED APRIL 21, 1942. Class 6.

396,216. NON-ALCOHOLIC, NON-CEREAL, MALTLESS, CARBONATED BEVERAGES, AND SYRUPS AND EXTRACTS FOR MAKING THE SAME. SAFEWAY STORES, INC., OF NEVADA, Oakland, Calif.
Filed February 20, 1942. Serial No. 451,120. PUBLISHED APRIL 21, 1942. Class 45.

396,217. MEDICINAL CIGARETTES FOR THE RELIEF OF ASTHMA AND THROAT IRRITATIONS. JOHN K. BRATER AND CO. INC., New York, N. Y.
Filed February 21, 1942. Serial No. 451,132. PUBLISHED APRIL 14, 1942. Class 6.

396,218. BREAKFAST CEREAL. THE GREAT ATLANTIC & PACIFIC TEA COMPANY, New York, N. Y.
Filed February 21, 1942. Serial No. 451,138. PUBLISHED APRIL 21, 1942. Class 46.

396,219. DYE REMOVING MATERIALS, DYEING MATERIALS, AND FABRIC FINISHING MATERIALS. CHARLES E. MAHER, doing business as Style Cemar Co., Chicago, Ill.
Filed February 21, 1942. Serial No. 451,142. PUBLISHED APRIL 21, 1942. Class 6.

396,220. LADIES' AND MISSES' DRESSES, BLOUSES, SUITS, SLACKS, PAJAMAS, HOUSECOATS, PLAYSUITS, AND OVERALLS. MAYFLOWER DRESS CO., INC., New York, N. Y.
Filed February 21, 1942. Serial No. 451,144. PUBLISHED APRIL 21, 1942. Class 39.

396,221. PERFUMES, TOILET WATERS, SACHETS, EAU DE COLOGNES, TALCUM, FACE AND BATH POWDER, FACE CREAMS AND CLEANSING CREAMS, AFTER SHAVING LOTION, AND HAIR TONIC. PARFUMS CHARBERT, INC., New York, N. Y.
Filed February 21, 1942. Serial No. 451,146. PUBLISHED APRIL 14, 1942. Class 6.

396,222. BEER. TIVOLI BREWING COMPANY, Detroit, Mich.
Filed February 21, 1942. Serial No. 451,150. PUBLISHED APRIL 21, 1942. Class 48.

396,223. LIQUID PREPARATION ADAPTED FOR USE ON THE LEGS TO CREATE THE EFFECT OF SILK STOCKINGS. BEAUTY COUNSELORS, INC., Grosse Pointe, Mich.
Filed February 23, 1942. Serial No. 451,159. PUBLISHED APRIL 21, 1942. Class 6.

396,224. CHILDREN'S COMBINATION GARMENTS CONSISTING OF SHORTS, A WRAP AROUND SKIRT AND A BIB FRONT SUSPENDER. G., H. & E. FREYDBERG, INC., New York, N. Y.
Filed February 23, 1942. Serial No. 451,168. PUBLISHED APRIL 21, 1942. Class 39.

396,225. VITAMIN PREPARATION. NYAL COMPANY, Detroit, Mich.
Filed February 23, 1942. Serial No. 451,178. PUBLISHED APRIL 21, 1942. Class 6.

396,226. DOLLS. IDEAL NOVELTY & TOY CO., Long Island City, N. Y.
Filed February 25, 1942. Serial No. 451,207. PUBLISHED APRIL 21, 1942. Class 22.

396,227. LIQUID CHEMICAL PREPARATION USED AS A COATING FOR PRESERVING PAPER SUCH AS PAMPHLETS, NEWSPAPERS, CLIPPINGS, ILLUSTRATIONS, ETC. THE MARTIN DENNIS COMPANY, Newark, N. J.
Filed February 26, 1942. Serial No. 451,226. PUBLISHED APRIL 21, 1942. Class 6.

396,228. LADIES' AND CHILDREN'S HATS. BETMAR HATS INC., New York, N. Y.
Filed February 27, 1942. Serial No. 451,255. PUBLISHED APRIL 14, 1942. Class 39.

396,229. MEN'S DRESS AND SPORT SHIRTS. BEAVER SHIRT MANUFACTURING CO., INC., New York, N. Y.
Filed February 28, 1942. Serial No. 451,282. PUBLISHED APRIL 21, 1942. Class 39.

396,230. LIPSTICKS. CHRISTY COSMETICS, INC., New York, N. Y.
Filed February 28, 1942. Serial No. 451,294. PUBLISHED APRIL 14, 1942. Class 6.

396,231. APPLE JUICE FOR FOOD PURPOSES AND CANNED SWEET POTATOES. FRANCIS C. STOKES COMPANY, Vincentown, N. J.
Filed February 28, 1942. Serial No. 451,324. PUBLISHED APRIL 21, 1942. Class 46.

396,232. MATERIALS AND SOLUTIONS FOR TREATING PRINTING PLATES TO PREPARE AND PRESERVE REPRODUCIBLE IMAGES THEREON. ADDRESSOGRAPH-MULTIGRAPH CORPORATION, Cleveland, Ohio.
Filed March 2, 1942. Serial No. 451,332. PUBLISHED APRIL 14, 1942. Class 6.

396,233. ENAMEL ADAPTED FOR COATING FINGER NAILS, AND LIPSTICKS. REVLON PRODUCTS CORPORATION, New York, N. Y.
Filed March 9, 1942. Serial No. 451,503. PUBLISHED APRIL 21, 1942. Class 6.

396,234. TYPEWRITERS. REMINGTON RAND INC., Buffalo, N. Y.
Filed March 10, 1942. Serial No. 451,541. PUBLISHED APRIL 21, 1942. Class 23.

396,235. VARIOUS DRUGS AND PHARMACEUTICALS FOR HUMAN USE, SUCH PRODUCTS BEING IN THE FORM OF THE USUAL PREPARATIONS FOR ORAL OR PARENTEREL ADMINISTRATION, ETC. THE LAKESIDE LABORATORIES, INC., Milwaukee, Wis.
Filed March 11, 1942. Serial No. 451,552. PUBLISHED APRIL 21, 1942. Class 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

396,236. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WESTERN AUTO SUPPLY COMPANY, Kansas City, Mo. Filed Mar. 14, 1938. Serial No. 404,067.

WIZARD

FOR INCANDESCENT ELECTRIC LAMPS.
Claims use since Mar. 24, 1936.

396,237. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) METROPOLITAN ICE CREAM CO., St. Louis, Mo. Filed Nov. 14, 1940. Serial No. 437,874.

The ESQUIRE

FOR ICE CREAM, ICES, AND SIMILAR FROZEN CONFECTIONS.
Claims use since Oct. 15, 1940.

396,238. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Nov. 18, 1940. Serial No. 438,021.

KLEEN LINE

FOR HAND-OPERATED MECHANICAL PAINT STRIPING TOOL.
Claims use since July 20, 1939.

396,239. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GENERAL ELECTRIC X-RAY CORPORATION, Chicago, Ill. Filed Jan. 29, 1941. Serial No. 440,090.

Supermix

FOR CHEMICALS FOR DEVELOPING AND FIXING X-RAYS.
Claims use since Jan. 20, 1941.

396,240. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARD & RAND, INC., New York, N. Y. Filed Feb. 3, 1941. Serial No. 440,247.

BOLIVAR

FOR RAW, UNPROCESSED COFFEE IN BULK.
Claims use since Apr. 15, 1939.

396,241. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ANDERSEN'S, Buellton, Calif. Filed Mar. 4, 1941. Ser. No. 441,188.

ANDERSEN'S

FOR MINCE MEAT, SPICES, SPLIT PEAS, SPLIT PEA SOUP, BREAD, AND DRIED FRUITS, COFFEE, PIES.
Claims use since Jan. 1, 1940.

396,242. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) K. & W. GLASS WORKS, INC., West New York, N. J. Filed Apr. 19, 1941. Serial No. 442,750.

SHINY — BRITE

FOR CHRISTMAS TREE ORNAMENTS.
Claims use since Apr. 14, 1941.

396,243. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LAWRENCE BARRY, LTD., New York, N. Y. Filed Apr. 25, 1941. Serial No. 442,930.

Barry

FOR RAZOR BLADES.
Claims use since Mar. 26, 1941.

396,244. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. GENERAL ELECTRIC X-RAY CORPORATION, Chicago, Ill. Filed Apr. 25, 1941. Serial No. 442,954.

EZEMIX

FOR CHEMICALS FOR FIXING X-RAYS.
Claims use since Feb. 6, 1940.

396,245. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. GENERAL ELECTRIC X-RAY CORPORATION, Chicago, Ill. Filed Apr. 25, 1941. Serial No. 442,955.

REDIMIX

FOR CHEMICALS FOR DEVELOPING X-RAYS.
Claims use since Feb. 6, 1940.

396,246. (CLASS 37. PAPER AND STATIONERY.) DIEBOLD SAFE & LOCK COMPANY, Canton, Ohio. Filed May 3, 1941. Serial No. 443,223.

CARD-O-GUIDES

FOR COMPOSITE GUIDES FOR CARD FILING EQUIPMENT.
Claims use since Mar. 5, 1941.

396,247. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LUCAS KIL-TONE CO., Philadelphia, Pa., assignor to John Lucas and Company, Inc., Philadelphia, Pa., a corporation of Maryland. Filed May 15, 1941. Serial No. 443,612.

HOLD-TITE

FOR INSECTICIDES AND FUNGICIDES.
Claims use since Apr. 15, 1941.

396,248. (CLASS 48. MALT BEVERAGES, AND LIQUORS.) THE CROCKERY CITY ICE & PRODUCTS COMPANY, East Liverpool, Ohio. Filed May 20, 1941. Serial No. 443,715.

Webber's OLD LAGER

FOR BEER.
Claims use since Mar. 17, 1941.

396,249. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL STARCH PRODUCTS INC., New York, N. Y. Filed May 20, 1941. Serial No. 443,726.

CLEARSIZE

FOR LAUNDRY STARCHES.
Claims use since Mar. 15, 1941.

396,250. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MELVIN H. JACOBS, doing business as Eaton Products, Chicago, Ill. Filed May 26, 1941. Serial No. 443,933.

EATON'S

FOR COLOGNE.
Claims use since Dec. 1, 1940.

396,251. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LINE MATERIAL COMPANY, Milwaukee, Wis. Filed May 26, 1941. Serial No. 443,942.

ROUND IM WOUND

FOR ELECTRICAL TRANSFORMERS.
Claims use since Apr. 1, 1941.

396,252. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) AMALGAMATED LEATHER COMPANIES, INC., Wilmington, Del. Filed June 10, 1941. Serial No. 444,369.

ELKID

FOR GLAZED KID LEATHER.
Claims use since Apr. 1, 1941.

396,253. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LEACOCK & CO., INC., New York, N. Y. Filed Aug. 12, 1941. Serial No. 446,164.

LEASPUN

FOR PRINTED AND UNPRINTED SPUN RAYON AND COTTON FABRICS IN THE PIECE, TABLE CLOTHS, NAPKINS, SCARVES, KITCHEN AND BATHROOM TOWELS.
Claims use since May 1, 1941.

396,254. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LYNDON PRODUCTS CORPORATION, Norwalk, Conn. Filed Aug. 27, 1941. Serial No. 446,580.

Lady Lyndon

FOR LIPSTICK, FACE LOTIONS, CLEANSING CREAM, CREAM MASK.
Claims use since Dec. 3, 1938.

396,255. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) VANCE J. COLEMAN, doing business as Rapids Machinery Company, Marion, Iowa. Filed Sept. 12, 1941. Serial No. 446,992.

MARION MIXER
MFG'D BY
Rapids Machinery Co.
MARION, IA.

FOR COMBINED CONVEYOR AND MIXER FOR STOCK FEEDS, FLOURS, AND THE LIKE.
Claims use since Sept. 25, 1926.

396,256. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE FOSTORIA PRESSED STEEL CORPORATION, Fostoria, Ohio. Filed Oct. 6, 1941. Serial No. 447,563.

EVENRAY

FOR ELECTRICALLY-GENERATED-RAY HANDLING APPARATUS FOR KILNS, TUNNELS, TRAVEL WAYS, MORE PARTICULARLY AS PROJECTING SAID RAYS FROM SINGLE OR MULTIPLE SOURCE, AND SUCH ASSEMBLING AND MOUNTING IN APPROPRIATE GROUPINGS IN SAID EQUIPMENT TO RESPOND TO THE REQUIREMENTS OF THE WORK, INCLUDING PARTS THEREOF, AS ADAPTED FOR BAKING, DRYING, CURING, PROCESSING TREATMENT, AND FOR ACTING UPON COATED, PAINTED, AND ENAMELED FINISHES OF INDUSTRIAL ARTICLES.
Claims use since Mar. 15, 1941.

396,257. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COMMERCIAL SOLVENTS CORPORATION, New York, N. Y. Filed Oct. 21, 1941. Serial No. 447,973.

NOR'WAY

FOR RADIATOR PREPARATIONS—NAMELY, ANTI-LEAK COMPOUNDS, ANTIRUST COMPOUNDS, FLUSHING COMPOUNDS.
Claims use since Apr. 11, 1941.

396,258. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COMMERICAL SOLVENTS CORPORATION, New York, N. Y. Filed Oct. 21, 1941. Serial No. 447,974.

NOR'WAY



FOR RADIATOR PREPARATIONS—NAMELY, ANTI-LEAK COMPOUNDS, ANTIRUST COMPOUNDS, FLUSHING COMPOUNDS.
Claims use since Apr. 11, 1941.

396,259. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PAUL HEIMLICH, doing business as Color Bath Co., New York, N. Y. Filed Oct. 22, 1941. Serial No. 448,002.

COLOR-BATH

FOR HAIR DYES AND SHAMPOO TINTS.
Claims use since August, 1939.

396,260. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ARTHUR R. NELSON, doing business as Nelson Manufacturing Co., Bay City, Mich. Filed Nov. 25, 1941. Serial No. 448,919.

Nelson
Trailer Dolly

FOR TRAILER BOGIES.
Claims use since Apr. 3, 1939.

396,261. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LAVINIA P. CROCKER, doing business as Pingo Company, Boston, Mass. Filed Dec. 18, 1941. Serial No. 449,567.

STOVGLAZ

FOR LIQUID CHEMICAL PREPARATION FOR APPLICATION TO STOVES FOR THE PURPOSE OF SEALING THE PORES AND PROVIDING A PROTECTIVE WATERPROOF NON-RUSTING SURFACE.
Claims use since March, 1940.

396,262. (CLASS 45. BEVERAGES, NONALCOHOLIC.) THE SEVEN-UP BOTTLING CO. OF BALTIMORE, INC., doing business as Caton Spring Water Co., Catonsville, Md. Filed Dec. 23, 1941. Serial No. 449,728.

Caton

FOR NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME, GINGERALE, AND SPRING WATER CARBONATED AND STILL.
Claims use since Jan. 1, 1903.

396,263. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES E. FROSST & CO., Montreal, Quebec, Canada. Filed Jan. 14, 1942. Serial No. 450,199.

Frosst

FOR BIOLOGICAL MEDICAMENTS OF ANIMAL OR VEGETABLE ORIGIN, AND PHARMACEUTICAL MEDICAMENTS OF ANIMAL, VEGETABLE OR MINERAL ORIGIN, IN THE FORM OF AMPOULES, APPLICATORS, BOUGIES, CAPSULES, CERATES, COLLODIONS, CONFECTIONS, CREAMS, CRYSTALS, DECOCTIONS, ELIXIRS, EMULSIONS, ESSENCES, EXTRACTS, EYE DROPS, EYE DISCS, EYE OINTMENTS, GARGLES, GRANULES, INFUSIONS, INHALATIONS, INJECTIONS, INSUFFLATIONS, JELLIES, LINCTUS, LINIMENTS, LIQUIDS, LOTIONS, LOZENGES, MIXTURES, OINTMENTS, PAINTS, PASTES, PASTILLES, PIGMENTS, PILLS, PLASTERS, POULTICES, POWDERS, SOLUTIONS, SPIRITS, SPRAYS, SUPPOSITORIES, SYRUPS, TABLETS, TINCTURES, WATERS AND WINES, WHICH MAY BE FOR HUMAN AND VETERINARY USE FOR INTERNAL AS WELL AS EXTERNAL APPLICATION AS ACIDIFIERS, ALKALINIZERS, ALTERATIVES, ANALEPTICS, ANALGESICS, ANAESTHETICS, ANODYNES, ANTACIDS, ANTI-ASTHMATICS, ANTHELMINTICS, ANTIDOTES, ANTIEMETICS, ANTICONVULSANTS, ANTIMALARIALS, ANTINEURITICS, ANTI-PELLAGRIC AGENTS, ANTI-PERIODICS, ANTIPRURITICS, ANTI-PYRETICS, ANTIRACHITIC AGENTS, ANTI-RHEUMATICS, ANTISCABIOUS AGENTS, ANTI-SCORBUTICS, ANTISEPTICS, ANTISPASMODICS, ANTI-SYPHILITICS, ASTRINGENTS, BACTERICIDES, CARDIAC STIMULANTS, CATHARTICS, CHEMOTHERAPEUTIC AGENTS, CHOLOGAGUES, CHOLERETICS, CIRCULATORY DEPRESSANTS, COUNTER IRRITANTS, DIAPHORETICS, DIETARY SUPPLEMENTS, DIGESTANTS, DIURETICS, ECBOLICS, EMMENAGOGUES, EMOLLIENTS, ENDOCRINE PRODUCTS, EXPECTORANTS, FUNGICIDES, GERMICIDES, GONOCCOCCIDES, HAEMATINICS, HAEMATOPOIETICS, HAEMORRHOIDAL AGENTS, HAEMOSTATICS, HEPATIC STIMULANTS, HYPNOTICS, INCONTINENCE AGENTS, INTESTINAL ANTISEPTICS, KERATOLYTIC AGENTS, LAXATIVES, MILK MODIFIERS, NASAL MEDICAMENTS, NUTRIENTS, OPOTHERAPICS, OPHTHALMIC AGENTS, ORGANOTHERAPEUTICS, OXYTOCICS, PARACITICIDES, RUBRIFACIENTS, SCHLEROSING AGENTS, SEDATIVES, STOMACHICS, TONICS, URINARY ANTISEPTICS, URINARY ACIDIFIERS, URINARY ALKALIZERS, UTERINE SEDATIVES, VAGINAL MEDICAMENTS, VASO-CONSTRICTORS, VASO-DILATORS, AND VITAMIN PREPARATIONS.
Claims use since Nov. 20, 1899.

396,264. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALBA PHARMACEUTICAL COMPANY, INC., New York, N. Y. Filed Jan. 26, 1942. Serial No. 450,467.

ALBA PHARMACEUTICAL COMPANY, INC.

FOR ADSORBENT, ANTACID, ASTRINGENT, AND DEMULCENT PREPARATION, ANALGESICS, ANESTHETICS, ANTIASTHMATIC AND ANTISPASMODIC PREPARATIONS, ANTIBACTERIALS, ANTICATARRHAL PREPARATIONS, ANTIPNEUMOCOCCAL PREPARATIONS, ANTIRACHITIC PREPARATIONS, ANTISEPTICS AND GERMICIDES, ANTISYPHILITICS, A CARDIOTONIC AND MUSCLE STIMULANT, A CHOLAGOGUE AND LAXATIVE, DISINFECTANTS, ENDOCRINE PREPARATIONS, HEMOSTATIC PREPARATIONS, SALT SUBSTITUTES, SEDATIVES, VASOCONSTRICTORS, VASODILATORS, AND VITAMIN PREPARATIONS.
Claims use to an adsorbent, antacid, astringent and demulcent preparation since 1938; to analgesics since 1936; to anesthetics, antiasthmatic and antispasmodic preparations, antibacterials, and anticatarrhal preparations since 1937; to antipneumococcal preparations since 1936; to antirachitic preparations since 1937; to antiseptics and germicides since 1935; to antisyphilitics, a cardiotonic and muscle stimulant, a cholagogue and laxative, disinfectants, and endocrine preparations since 1936; to hemostatic preparations since 1937; to salt substitutes, sedatives, and vasodilators since 1936; and to vasoconstrictors and vitamin preparations since 1937.

396,265. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COOK LABORATORIES, INC., New York, N. Y. Filed Feb. 13, 1942. Serial No. 450,932.

COOK LABORATORIES, INC.

FOR LOCAL ANESTHETICS AND LOCAL ANESTHETICS WITH VASOCONSTRICTORS.
Claims use since Aug. 31, 1933.

396,266. (CLASS 15. OILS AND GREASES.) AMERICAN OIL COMPANY, Baltimore, Md. Filed Feb. 16, 1942. Serial No. 450,993.

AMERICAN

FOR GASOLINE, LUBRICATING OILS, AND GREASES.
Claims use since May 1, 1931.

396,267. (CLASS 15. OILS AND GREASES.) AMERICAN OIL COMPANY, Baltimore, Md. Filed Feb. 16, 1942. Serial No. 450,994.

AMERICAN

FOR GASOLINE, LUBRICATING OILS, AND GREASES.
Claims use since May 1, 1931.

396,268. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) COMPO SHOE MACHINERY CORPORATION, Boston, Mass. Filed Mar. 21, 1942. Serial No. 451,797.

COMPO

FOR SHOE MACHINERY.
Claims use since March, 1929.

396,269. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EMIL JOHN FEURER, doing business as Baby Products, Chicago, Ill. Filed Apr. 8, 1942. Serial No. 452,217.

DI-PER-RASHE

FOR EXTERNALLY USED OINTMENT FOR BABY USE.
Claims use since Feb. 5, 1941.

396,270. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PENNSYLVANIA SAW CORPORATION, York, Pa. Filed Apr. 21, 1942. Serial No. 452,484.

Penn State

FOR SAWS OF ALL KINDS—NAMELY, HAND SAWS, CROSS-CUT SAWS, PANEL SAWS, MITRE SAWS, COMPASS SAWS, CABINET SETS, RIP SAWS, AND BRICK SAWS.
Claims use since Aug. 24, 1935.

396,271. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) GOLDBERG & SELTZER, INC., New York, N. Y. Filed Apr. 29, 1942. Serial No. 452,669.

SLAC PLASTIC

FOR LADIES' HANDBAGS AND POCKETBOOKS.
Claims use since Apr. 1, 1941.

REISSUES

JUNE 30, 1942

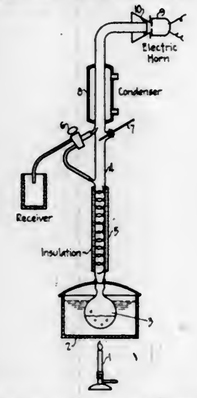
22,126

SEPARATION OF PHASES WITH THE AID OF SONIC WAVES

Donald S. McKittrick, Oakland, and Robert E. Cornish, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Original No. 2,265,762, dated December 9, 1941, Serial No. 328,756, April 9, 1940. Application for reissue January 26, 1942, Serial No. 428,268

2 Claims. (Cl. 202—39)



1. In a distillation process wherein ascending vapors contact liquid reflux in a reflux zone, the step of subjecting the overhead vapors in said zone to the direct influence of sonic vibrations of frequencies between 50 cycles per second and 5 megacycles per second, thereby increasing efficiency of fractionation in said zone.

22,127

COMPOSITION OF MATTER AND PROCESS OF PREPARING THE SAME

Joseph E. Plumstead, Wilmington, Del., assignor by mesne assignments, to West Virginia Pulp & Paper Company, New York, N. Y., a corporation of Delaware

No Drawing. Original No. 2,186,040 dated January 9, 1940, Serial No. 746,266, September 29, 1934, which is a division of Serial No. 679,993, July 11, 1933. Application for reissue November 16, 1940, Serial No. 365,992. Renewed December 27, 1938

18 Claims. (Cl. 106—306)

1. A process of preparing a pigment product, comprising treating alkaline earth metal carbonate particles in the presence of water with a reactive, inorganic, substantially water-soluble compound having a sulphite radical to partially dissolve the alkaline earth metal carbonate particles to form substantially water-insoluble, substantially opaque alkaline earth metal carbonate pigment particles having corroded surfaces.

PLANT PATENTS

GRANTED JUNE 30, 1942

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

528

PEACH TREE

Walter E. Lammerts, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif., a corporation of California

Application September 19, 1941, Serial No. 411,575

1 Claim. (Cl. 47—62)

A new and distinct variety of peach tree characterized as to novelty by its early ripening period, its vigorous growth and exceptional strength; the early flowering and leafing resulting in consistency in size, quality, and quantity of its fruit as compared with other early varieties; the yellow flesh coloring of the fruit, and almost complete absence of variation in this light yellow flesh color, substantially as shown and described.

529

PEACH TREE

Walter E. Lammerts, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif., a corporation of California

Application September 20, 1941, Serial No. 411,715

1 Claim. (Cl. 47—62)

A new and distinct variety of peach characterized as to novelty by its early ripening and the high skin coloring of its fruit; the resistance to delayed foliation in mild winter climates; and uniform production annually of satisfactory crops, substantially as shown and described.

530

ROSE PLANT

James N. Meadowcroft, Sr., Kennett Square, Pa., assignor to J. H. Thompson's Sons, Kennett Square, Pa.

Application January 9, 1942, Serial No. 426,232

1 Claim. (Cl. 47—61)

A new and distinct variety of hybrid tea rose plant, characterized as to novelty by its strong habits of growth, lasting quality of its blooms, large size and cupped form of its flowers, and the color combination of said flowers, substantially as shown and described.

PATENTS

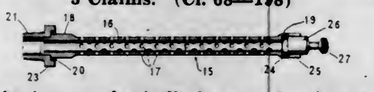
GRANTED JUNE 30, 1942

2,287,765

YARN TREATING APPARATUS

James I. Burnham, La Grange, Ga., assignor to Callaway Mills, La Grange, Ga., a corporation of Georgia

Application May 9, 1939, Serial No. 272,560
3 Claims. (Cl. 68—198)



1. An improved spindle for yarn treating apparatus including a perforated tubular body portion with screw threaded means at one end for securing it to a carrier and having the bore at the opposite end tapered with its smaller diameter outermost and slitted to provide expandable jaws at said end and a plug slidable in said slitted end, said plug being tapered with its inner end larger than its outer end for closing said slitted end and expanding said jaws within a yarn-supporting sleeve mounted on the spindle whereby said sleeve is held thereon to at least some extent by fluid pressure within the spindle exerted on the slidable plug.

2,287,766

RUBBER FLOORING OR SHEETING

Carroll C. Davis, Belmont, Mass., assignor to Boston Woven Hose & Rubber Company, Cambridge, Mass., a corporation of Massachusetts

No Drawing. Application March 15, 1940, Serial No. 324,121
1 Claim. (Cl. 260—763)

A rubber-like electro-conductive flooring substantially of the following composition processed to a homogeneous mass and shaped in sheet form and vulcanized to provide flooring sufficiently flexible and resilient to form a quiet and easy treading surface and capable of being bent and rolled without cracking and resiliently firm and hard to a degree precluding permanent indentation in use:

	Approx. parts by weight
Smoked sheet rubber	23
Graphite	59
Graphite and commercial carbon black	12
Pine tar	2¾
Zinc oxide	1⅞
Stearic acid	⅞
Sulfur	1/8
Benzothiazyl disulfide	¼
Mixed polymers of 2,2,4-trimethyl-1,2-dihydroquinoline	¼
	100

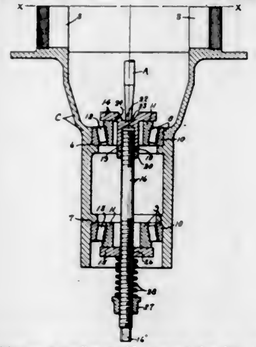
2,287,767

BEARING SETTING INSTRUMENT

Ralph L. Dodge, Syracuse, N. Y., assignor to New Process Gear Corporation, Syracuse, N. Y., a corporation of Delaware

Application March 25, 1940, Serial No. 325,817
1 Claim. (Cl. 29—85)

An instrument for accurately setting the axially aligned drive pinion bearings of a differential gearing into their spaced seats with the inner one of said bearings arranged in predetermined spaced relation to the axis of the side bearing seats of said differential gearing, said instrument comprising, in combination, a spindle adapted to extend through said bearings, a pair of pressure members operatively carried by said spindle in spaced relation to each other longitudinally thereof for engaging the outer ends of said bearings, and means coacting with the spindle for urging said members toward each other and pressing the bearings into their seats, the pressure member nearest the side bearing seats of said differential gearing having a recess providing a bottom surface in the free side thereof, said recess being of a sufficient and accurate depth



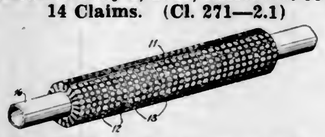
that said bottom surface thereof is in a plane of the inner contact surface of said pressure member and therefore in the plane of the adjacent end surface of the bearing it is adapted to contact, whereby a measuring instrument can be used in connection with said bottom surface to accurately determine the distance from said contact surface to the axis of the side bearing seats, when said pressure member is in contact with said end of said inner bearing, and in such manner to find the distance from said axis to the plane of said latter bearing end, for the purpose set forth.

2,287,768

ROLLER HAVING SURFACE OF SPONGE RUBBER KNOBS

George R. Eckstein, Buffalo, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application May 4, 1940, Serial No. 333,273
14 Claims. (Cl. 271—2.1)



1. In the feeding of continuous webs of thin, flexible sheet material to automatic machinery, the step of passing the webs around a resilient roller through an arc of at least 90° to smooth them out for the manipulative section of the machinery, said roller having a surface of sponge rubber knobs capable of movement radial and tangential to the roller surface to compensate for irregularities in the physical characteristics of the webs without the necessity of placing the webs under high tension.

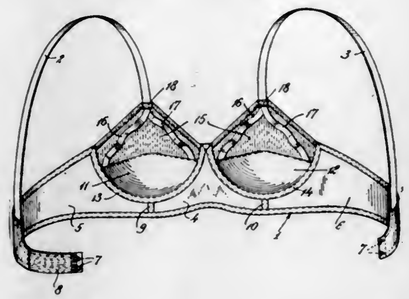
3. In the feeding of continuous webs of thin, flexible, non-fibrous sheet material to automatic machinery, the step of passing the webs around a resilient roller through an arc of at least 90° to smooth them out for the manipulative section of machinery, said roller comprising a rigid steel core 30 inches long and 2 inches outside diameter and a soft resilient sponge rubber layer 1 inch thick adhered thereto, the surface of said sponge rubber layer having longitudinal and circumferential grooves ⅞ inch deep cutting the surface into squares having an area of 0.25 square inch.

2,287,769

BRASSIÈRE

Leon N. Alberts, Yonkers, N. Y.

Application June 14, 1941, Serial No. 398,089
6 Claims. (Cl. 2—42)



1. In a garment of the class described, a band of soft flexible material adapted to encircle the bust having a pair of outwardly extending generally conical recesses at the front to receive the breasts, each of said recesses including a lower breast-supporting portion, a shoulder strap extending upwardly centrally above each of the recesses, connecting means for each shoulder strap comprising a pair of side straps secured at their lower ends to the band at the sides of the recesses at places substantially in horizontal alinement with the centers thereof and having their upper ends secured to the shoulder strap, and an extensible connection between the upper portion of the band and each shoulder strap comprising upwardly extensible fabric overlying the upper portion of the breast, whereby said side straps are caused to support the lower portion of the band beneath each breast thereby lifting the breasts and at the same time drawing them inwardly at the sides and causing them to conform to the shape of the recesses without applying tension over the front of the breasts.

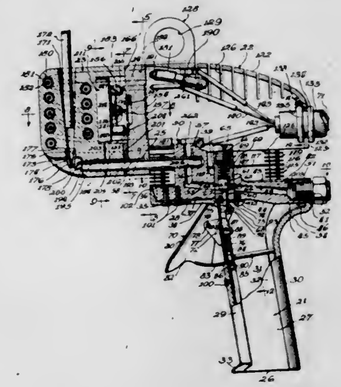
2,287,770

METAL SPRAY GUN

Frans O. Albertson, Sioux City, Iowa, assignor to Albertson & Company, Inc., Sioux City, Iowa, a corporation of Iowa

Application January 11, 1939, Serial No. 250,292
3 Claims. (Cl. 91—12.2)

1. In a spray gun for metal having a nozzle for metal, an air nozzle unit comprising a metal tube having means at one end for connection to an air conduit, and having an air nozzle disposed at the opposite end, said air nozzle having a narrow, arcuate aperture, said tube having intermediate its ends, a metal alignment block located in predetermined longitudinal position on said tube for determining the spacing of said nozzle from said metal nozzle, and said block having shoulders for engaging complementary



shoulders on said gun for determining the rotative position of said nozzle and tube with respect to said metal nozzle.

2,287,771

PRODUCTION OF POWDERED ALLOYS

Peter P. Alexander, Marblehead, Mass.

No Drawing. Application January 9, 1940, Serial No. 313,116
6 Claims. (Cl. 75—0.5)

2. The process of forming powdered alloys consisting of a metal selected from a first group consisting of titanium, zirconium, tungsten, hafnium, thorium, tantalum, uranium, molybdenum, chromium and beryllium and an alloying element selected from a second group consisting of titanium, zirconium, tungsten, hafnium, thorium, tantalum, uranium, molybdenum, chromium, beryllium, carbon, iron, nickel and cobalt which comprises thoroughly mixing a powdered oxide of the metal of the first group with the alloying element in powdered form and a powdered metal hydride selected from a group consisting of calcium hydride, barium hydride and strontium hydride, raising the temperature of the mixture to the point where the hydrogen is liberated from the metal hydride, the liberated hydrogen reducing the metal oxide whereupon the oxygen liberated therefrom combines with the metal liberated from the metal hydride, and thereafter further raising the temperature until the metal of the first group diffuses into the alloying element of the second group.

2,287,772

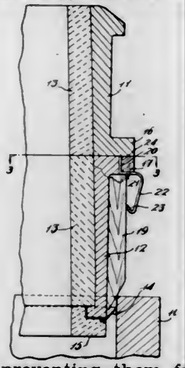
HOT TOP BLOCKING

Benjamin F. Anthony, Youngstown, Ohio, assignor to The Ferro Engineering Company, Cleveland, Ohio, a corporation of Ohio

Application October 22, 1940, Serial No. 362,210
6 Claims. (Cl. 22—147)

1. In a hot top adapted to be supported upon an ingot mold during the pouring operation by a plurality of upright blocks, means on the hot top comprising outwardly projecting abutments for the upper ends of the blocks, and spring clips removably mounted in the hot top for frictionally

holding the blocks against the side walls of the



hot top and preventing them from being dislodged accidentally.

2,287,773

RUBBERLIKE MATERIALS

Reginald George Robert Bacon, William Baird, Bernard James Habgood, and Leslie Budworth Morgan, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application February 28, 1940, Serial No. 321,350. In Great Britain March 3, 1939

6 Claims. (Cl. 260—768)

1. Process for the manufacture of rubber-like materials, having higher resistance to oils and solvents than natural rubber, which comprises dissolving natural rubber in a solvent therefor, dissolving dithiocyanogen in a solvent therefor which is miscible with the rubber solvent, and reacting the natural rubber with from about 5 per cent to about 50 per cent of the amount of dithiocyanogen necessary to completely saturate the natural rubber by mixing the reactants in solution.

2,287,774

RUBBERLIKE MATERIALS

Reginald George Robert Bacon, Bernard James Habgood, and Rowland Hill, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application February 28, 1940, Serial No. 321,351. In Great Britain March 8, 1939

17 Claims. (Cl. 260—79)

2. Process for the manufacture of rubber-like materials, having higher resistance to oils and solvents than natural rubber, which comprises dissolving a polymeric material, of the group consisting of polymers of butadiene-1,3, polymers of 2-chlorobutadiene-1,3, polymers of 2-methylbutadiene-1,3, polymers of 2,3-dimethylbutadiene-1,3, and interpolymers of said dienes with lesser quantities of other unsaturated substances which will polymerize with them, in a solvent therefor, dissolving dithiocyanogen in a solvent therefor, which is miscible with the solvent for the polymeric material, and reacting said polymeric material with from about 5 per cent to about 40 per cent of the amount of dithiocyanogen necessary to saturate completely said polymeric material by mixing the reactants in solution.

3. Process of claim 2 further characterized in that the rubber-like material is compounded and vulcanized.

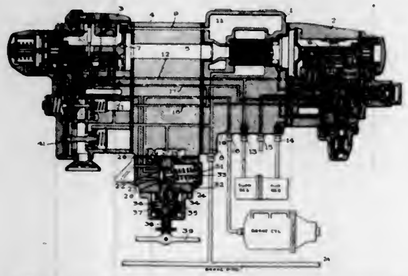
2,287,775

RELEASE VALVE

Roy E. Baker and Glenn A. Thompson, Reading, Mass., assignors to The New York Air Brake Company, a corporation of New Jersey

Application July 29, 1941, Serial No. 404,556

11 Claims. (Cl. 303—68)



1. The combination of a brake controlling valve device of the automatic type having a brake cylinder connection with communicating passage through which actuating air flows to and from the brake cylinder connection; a releasing valve controlling the brake cylinder passage and having a normal position in which the passage is open, and an abnormal position in which the passage is closed and the brake cylinder connection is vented; manually operable means for shifting the releasing valve to said abnormal position; and restoring means normally effective to shift said releasing valve to, and to maintain it in, said normal position.

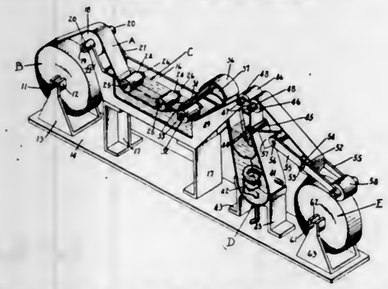
2,287,776

METHOD OF SEALING MOISTURE IN SHEET FIBER MATERIAL

Llewellyn Biggs, Leonia, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application December 27, 1938, Serial No. 247,930

1 Claim. (Cl. 117—60)



The method of sealing moisture within sheet fiber material to prevent subsequent drying out of the same with resulting cracking of the stock when articles are drawn therefrom, which comprises feeding a web of the fiber material through a bath of water beneath the surface thereof at a predetemined speed to permit all exposed surfaces including the side edges of the material to absorb a definite and predetermined degree of moisture, removing excess water from the moistened material while controlling the amount of such removal, immediately thereafter feeding the moistened web of fiber material through a bath of molten wax while maintaining said web freely suspended beneath the surface thereof to insure completely coating the opposite surfaces

and side edges of the material with sufficient wax to effectively seal the moisture therewithin, and finally removing excess wax coating from said moistened and coated material, whereby to produce a fiber sheet material having sealed therewithin the desired moisture content, to maintain pliability of such material during storage and to permit fiber articles to be subsequently drawn therefrom without cracking of the material.

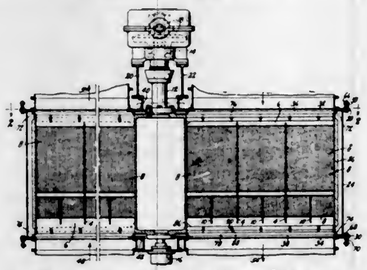
2,287,777

REGENERATIVE HEAT EXCHANGER

Gustav Karl William Boestad, Lidingo, Sweden, assignor, by mesne assignments, to Jarvis C. Marble, Leslie M. Merrill and Percy H. Batten, trustees

Original application January 22, 1937, Serial No. 121,890. Divided and this application October 5, 1939, Serial No. 298,047. In Germany January 23, 1936

7 Claims. (Cl. 257—6)



1. In a regenerative heat exchanger, a rotor having a series of radially extending partitions and packing members secured to the ends of said partitions, said packing members being rigidly secured at their inner ends relative to said partitions and being yieldingly connected to the partitions to permit relative movement of the packing members with respect to the partitions in the plane of the partitions.

2,287,778

WITHDRAWN

2,287,779

DEEP WELL PUMPING MECHANISM

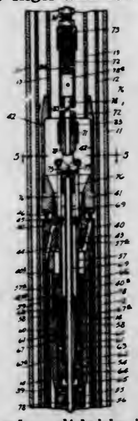
Charles C. Carlisle, Independence, Kans.

Application September 18, 1940, Serial No. 357,249

14 Claims. (Cl. 121—157)

1. In an apparatus of the character described, a motor cylinder, a motor piston in said cylinder, a reversing valve casing connected with the motor cylinder, a reversing valve slidable in the casing and adapted to alternately connect the opposite ends of the motor cylinder with a high pressure fluid supply and with a low pressure exhaust, an extension on said slide valve cooperating with the valve casing to form an alternate high and low pressure chamber, a pilot valve slidable in said extension of the reversing valve to alternately connect the high pressure fluid supply with said chamber and with said low pressure exhaust to effect movement of the reversing valve in the casing, and a reciprocating member having lost motion connection with the motor piston and having connection with said pilot valve to effect shifting of the pilot valve in selective positions of the motor piston.

11. In an apparatus of the character described, a reversing valve casing having an annularly dished pocket in an end thereof, a reversing valve slidable in the casing, an extension on said valve having an end cooperating with said pocket to form an alternate high and low pressure chamber, and a pilot valve slidable in said extension to alternately connect a high pressure fluid supply with said pressure chamber to effect shifting of the reversing valve.



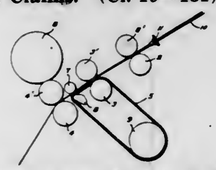
2,287,780

LONG DRAFT APRON

Frank H. Carman, Lancaster, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania

Application November 21, 1939, Serial No. 305,429

7 Claims. (Cl. 19—131)



1. A long draft apron for use in fiber drawing comprising a seamless, tubularly woven fabric foundation in substantially completely, radially extended condition, an impregnating composition substantially filling the interstices of said fabric, and a seamless, oil resistant, flexible wearing surface integrally united with said foundation, said wearing surface being vulcanized in situ on said foundation.

2,287,781

ARTIFICIAL ARM AND HAND

William T. Carnes, Kansas City, Mo.

Application August 1, 1940, Serial No. 349,375

5 Claims. (Cl. 3—12)

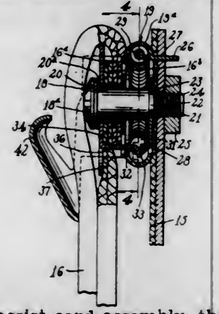
5. An artificial arm, including a hand comprising a palm member, finger members hingedly connected to said palm, a crank shaft journaled in the palm member, levers connecting the fingers to the crank shaft, a toothed segment fixed on the crank shaft, a worm shaft journaled in the palm and enmeshed with the toothed segment, a winding drum journaled in the palm, a flexible cord adapted to have one end attached to a shoulder harness to be manually pulled, said flexible cord having a portion intermediate its length encircling and attached to the worm shaft and having its other end encircling and attached to the winding drum, a manual pull on the cord rotating the worm shaft and winding drum to

open the fingers, a lever arm fixed to turn with the winding drum, and a retractile spring having



one end attached to the palm and its other end to the lever to resist manual pull on the cord and to return the winding drum and worm segment to close the fingers.

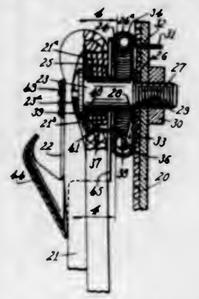
2,287,782
ASSIST CORD ASSEMBLY
Arthur Claud-Mantle, Trumbull, Conn., assignor to The Bassick Company, Bridgeport, Conn., a corporation of Connecticut
Application February 23, 1940, Serial No. 320,390
22 Claims. (Cl. 105—354)



1. In an assist cord assembly, the combination of an assist member in the form of a loop of strap material having approximately parallel portions facing each other, a fastener member having a shank serving as a pivotal mounting for said member adjacent the upper end thereof and providing for the swinging movement of the side portions of the member in the respective planes in which their strap material is disposed, a case into which said fastener member extends adapted for mounting on the side of the car body, and means including a spring in said case and a loop carried member projecting through the rear portion or flap of the loop member into cooperation with said spring for holding said loop member normally in a predetermined position in its plane of swing.

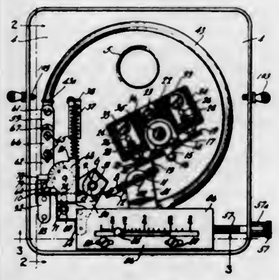
2,287,783
ASSIST CORD ASSEMBLY
Arthur Claud-Mantle, Trumbull, Conn., assignor to The Bassick Company, Bridgeport, Conn., a corporation of Connecticut
Application May 12, 1941, Serial No. 393,052
20 Claims. (Cl. 105—354)

1. In an assist cord assembly, a flexible looped strap having a grommet extending through at least one of its side portions, a plate for taking pull on a part of the strap attached to the upper portion of the strap by the grommet and having a hole for a fastener screw, a screw passing through said hole and through at least a portion



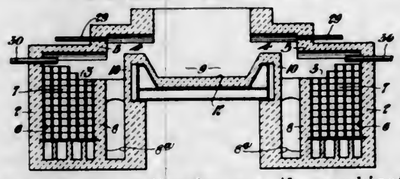
of the strap for pivotally mounting the loop member on a supporting wall, and a retainer removably associated with the upper end portion of the loop and holding the upper portion of the loop adjacent the screw in place.

2,287,784
CONTROL DEVICE
Lewis L. Cunningham, Milwaukee, Wis., assignor to Perfex Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application February 20, 1939, Serial No. 257,485
23 Claims. (Cl. 200—81)



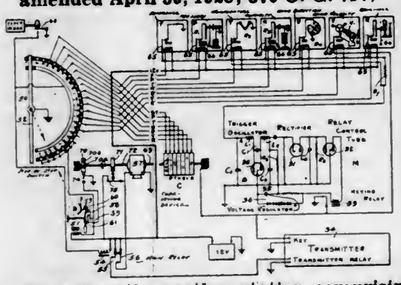
1. In a control device, a base, a Bourdon tube mounted on said base, a freely movable switch operating arm having two positions, magnetic biasing means for holding said arm in one position, spring biasing means for holding said arm in its other position, a pivot pin for supporting said arm on said base, a lost motion member pivoted on said pin, a calibrating screw on said lost motion member arranged to engage one end of the arm, an adjustable cam also arranged to engage said arm, a second pivot pin for supporting said adjustable cam on said lost motion member, an adjustable connector between said Bourdon tube and said lost motion member whereby motion of said Bourdon tube in one direction will cause said calibrating screw to engage one side of the arm and initiate movement of the arm to one of its positions and motion of said Bourdon tube in the other direction will cause said adjusting cam to engage the other side of the arm and initiate movement of the arm to the other of its positions, and an adjustable loading spring fastened to the lost motion member for loading the Bourdon tube a variable amount whereby the operating point of the Bourdon tube is changed.

2,287,785
REGENERATIVE FURNACE
William T. Dean, Gary, Ind.
Application July 31, 1940, Serial No. 348,871
5 Claims. (Cl. 263—15)



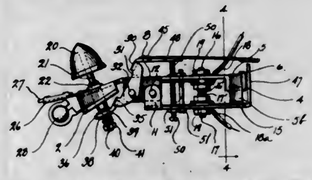
1. In a regenerative furnace, the combination with a hearth, of regenerator chambers spaced therefrom, slag pockets between each chamber and the hearth, said furnace having combustion zones disposed above the pockets and regenerator chambers each comprising a rich combustion chamber adjacent the hearth and a lean fuel combustion chamber above a regenerator chamber, bridge walls adjacent the hearth and deflecting walls above the regenerator chambers, said walls defining vertical passages between the rich and lean fuel firing zones. said passages being disposed over the slag pockets, whereby entrained solids are precipitated into a pocket upon a flow of hot gases from the hearth to a regenerator chamber.

2,287,786
AUTOMATIC WEATHER STATION
Harry Diamond, Washington, D. C., and Wilbur S. Hinman, Jr., Falls Church, Va., assignors to the Government of the United States of America, as represented by the Secretary of Commerce
Application August 30, 1941, Serial No. 408,954
6 Claims. (Cl. 250—2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



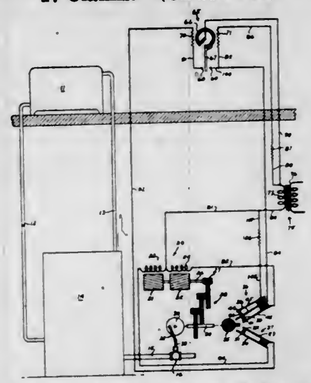
1. An automatic weather station comprising a radio transmitter having a keying circuit and an on-off circuit, a plurality of factor responsive keying means (F to key, P to key, T to key, V directly to key, etc.) in keying relation to said keying circuit and adapted to produce keying in discrete aural pulses at rates dependent upon the values of the factors, some of said factors being meteorological factors, a plurality of coded keying means having codings related to said factors and selectably connectable in keying relation to said keying circuit, report initiating means for closing the on-off circuit of said transmitter to put the transmitter in operation, automatic step-by-step switching means for sequentially connecting in said keying circuit in a predetermined order predetermined ones of said coded keying means and said factor responsive keying means, and automatic means for maintaining operation of said switching means throughout a predetermined whole number of complete sequence cycles and for then opening the on-off circuit of said transmitter and stopping operation of said switching means in a predetermined step-off position.

2,287,787
THERMOSTATIC SWITCH
Roy N. Dickey, Seattle, Wash., assignor to Meets-A-Need Manufacturing Company, Seattle, Wash., a corporation of Washington
Application September 4, 1940, Serial No. 355,355
5 Claims. (Cl. 200—139)



1. A switch of the character described comprising a main frame, a switch plate pivotally mounted thereon for oscillating action, switch contacts mounted by the frame and plate respectively for connection in the electric circuit that is to be controlled by the switch and adapted to be engaged and disengaged by movement of the said plate to close and open the circuit, a magnet disposed in position to magnetically resist movement of the plate for opening of the closed circuit, a rocker frame pivoted on the main frame, a rigid arm thereon for engaging the switch plate to open the circuit, a thermostatic arm fixed on the rocker frame for engaging the switch plate and adapted to be raised and lowered relative thereto by adjustment of the rocker frame, and a control member for adjusting the rocker frame in one direction for positive opening of the switch and in the other direction to first close the switch and then determine the position of the thermostatic arm for its actuation of the switch frame to open position at a predetermined temperature.

2,287,788
CONTROL SYSTEM
Earl F. Diekhoff, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application September 26, 1938, Serial No. 231,651
17 Claims. (Cl. 236—68)



1. In a temperature controlling system, a temperature responsive element, a circuit controlling

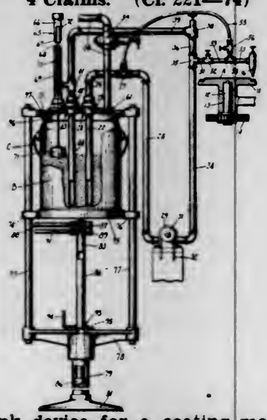
means carried by said element and movable into first, second and third circuit controlling positions in response to variations in the ambient temperature for controlling temperature changing apparatus for a space whose temperature is to be controlled, auxiliary meating means having fixed high and low capacities located closely adjacent said temperature responsive element, means responsive to movement of said circuit controlling means to the first circuit controlling position to cause operation of said auxiliary heating means at the fixed high capacity thereof, means responsive to movement of said circuit controlling means to the second circuit controlling position to cause operation of said auxiliary heating means at the fixed low capacity thereof, and means responsive to movement of said circuit controlling means to the third circuit controlling position to interrupt operation of said auxiliary heating means.

2,287,789

DISPENSING DEVICE

William S. Drollet, Sacramento, Calif., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application October 14, 1939, Serial No. 299,558
4 Claims. (Cl. 221—74)



1. A tank device for a coating machine and the like, which comprises a removable vertically reciprocable open top tank for retaining the coating material, a cover plate designed for sealing the open top of said tank, means for dispensing the coating material, a pipe line connecting said cover plate and the interior of said tank with said dispensing means for conducting coating material to the latter, means for supporting and clamping said tank in sealing engagement with said cover plate, and means for moving said tank supporting means toward and away from said cover plate respectively to clamp the open top of said tank in sealing engagement with said cover plate and to facilitate convenient removal and replacement of said tank.

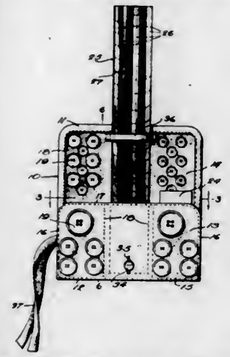
2,287,790

SEWING KIT

Ralph A. Butland, Washington, D. C.

Application August 19, 1941, Serial No. 407,504
2 Claims. (Cl. 223—107)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a sewing kit, the combination of a flexible folder having an exterior portion of substantially rectangular shape, an interior portion of substantially rectangular shape in face-to-face relationship with the interior surface of the exterior portion, said interior portion being coextensive with the exterior portion in width and extending approximately one-half of the length of said exterior portion, and being stitched to the exterior portion around three sides; parallel lines of stitching spaced apart from each other to form scores to facilitate folding and to define a plurality of pockets in side-by-side relationship with each other, one of said pockets being of size and shape adapted to receive one end of a thread assembly; a thread assembly extending into said pocket, said thread assembly including a plurality of separate, independent threads of different colors and materials extending in a



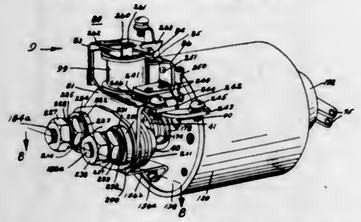
general longitudinal direction with respect to the thread assembly, a closure tab attached to the end of said thread assembly and constituting two thicknesses of relatively thin flexible material positioned on opposite sides of the thread assembly and united by parallel lines of stitches, said individual stitches being arranged to pass between the individual threads of the assembly and exert frictional resistance to the removal of each of the individual threads from the assembly; anchor means on the closure tab to maintain said tab in fixed position with respect to the folder and to permit removal and replacement of the thread assembly, cooperating anchor means on the pocket of the folder, and a retaining loop surrounding the thread assembly at a point remote from said pocket and in alignment therewith.

2,287,791

ENGINE STARTER CONTROL APPARATUS

John B. Dyer, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application July 12, 1934, Serial No. 734,739
Renewed November 8, 1939
21 Claims. (Cl. 290—38)



7. In an electrically controlled engine starter apparatus having, in combination, an electric

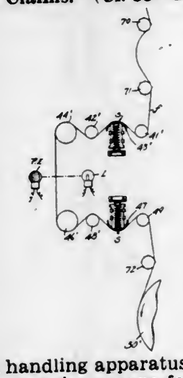
motor provided with a field frame and a shaft rotatable therein which, when rotated, is operable to rotate the engine shaft, a means for controlling the operation of said motor comprising a magnet having a housing mounted on top of the motor frame, windings within the housing, a magnet armature slidably supported by the magnet housing and movable in a path substantially parallel to the axis of the motor shaft, a switch for controlling the operation of the motor also supported by the magnet housing, and means whereby said switch is operated by the magnet armature.

2,287,792

APPARATUS FOR CONTROLLING THE FEEDING OF FILM

Warren Dunham Foster, Washington Township, Bergen County, N. J., assignor to Kinatome Patents Corporation, Ridgewood, N. J., a corporation of New York

Application October 8, 1934, Serial No. 747,474
23 Claims. (Cl. 88—16.2)



1. In a film handling apparatus, a delivery carrier, a take-up carrier, means for feeding a film from said delivery carrier toward said take-up carrier, tension control mechanism cooperating with one of said carriers, said mechanism comprising axially fixed convex arcuate film engaging means for engaging the same side of the film at longitudinally spaced positions to provide a bight, a movable member for engaging the film in said bight throughout the entire feeding operation, and means for pressing said member against the film continuously for subjecting the film to predetermined conditions of tension during the feeding operation, and means additional to the foregoing engaging the film between said last-mentioned carrier and said bight-providing means for subjecting the film to a constant and uniform retarding force throughout the feeding operation supplemental to but independent of the control applied by said tension control mechanism.

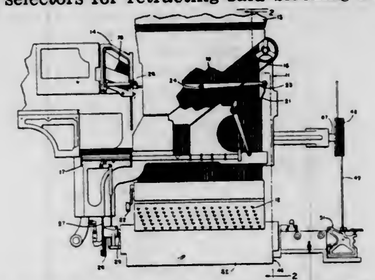
2,287,793

CONTROL MECHANISM FOR LINECASTING AND COMPOSING MACHINES

Maurus T. Goetz, Chicago, Ill., assignor, by mesne assignments, to Teletypesetter Corporation, a corporation of Delaware

Application December 29, 1939, Serial No. 311,483
23 Claims. (Cl. 199—51)

1. In a selector mechanism, a plurality of selectable elements, a set of selectors coded to select three of said elements simultaneously, means for normally blocking one of said three elements against response with the other two elements to said selectors, and means controlled by one of said other two elements upon response thereof to said selectors for retracting said blocking means



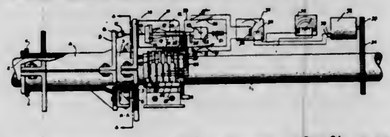
from blocking relation to said normally blocked element.

2,287,794

APPARATUS FOR MEASURING MECHANICAL POWER

Ross Gunn, Washington, D. C.

Application August 14, 1939, Serial No. 290,043
12 Claims. (Cl. 265—25)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In combination with a power shaft, a space discharge device comprising an envelope enclosing at least three electrodes, at least one of which is electron emissive and at least one of which is movable with respect to the envelope, means for securing said envelope and at least the movable electrode to said shaft at spaced points therealong to thereby cause an increase in resistance between a plurality of electrodes simultaneously with a decrease in a like resistance upon subjecting the shaft to torsion, a bridge circuit in which the space discharge device is connected to form two branches thereof, a generator driven by said shaft and means controlled by said bridge circuit and generator for indicating a quantity that is proportional to both the torque and speed of the shaft.

2,287,795

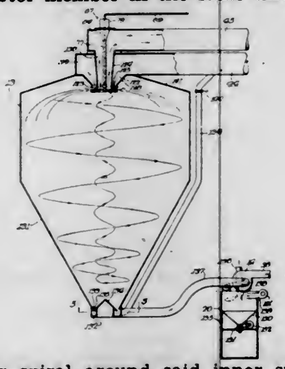
MECHANISM FOR REMOVING MOISTURE FROM LIQUID PRODUCTS

Joseph M. Hall, Chicago, Ill., assignor to Drying & Concentrating Company, a corporation of Delaware

Application December 8, 1938, Serial No. 244,642
13 Claims. (Cl. 159—4)

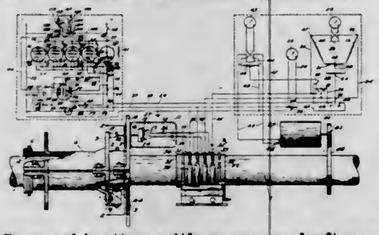
13. In a system for removing moisture from liquid products, a drying chamber substantially circular in cross section, a conduit for conducting a gaseous drying medium to the intake of said chamber, means for causing said medium to move downwardly within said chamber in an outer spiral and then ascend in an inner spiral rotating in the same direction as said outer spiral and within said outer spiral to a point of discharge from said chamber, spray means for spraying a liquid product into the outer spiral only of said medium, a deflector member within the upper end portion of said chamber and extending around said inner spiral and having an outwardly and downwardly sloping surface for deflecting

the drying medium entering said chamber downwardly and outwardly, and means for rotating said deflector member in the same direction as



said outer spiral around said inner spiral for assisting in the rotation of said drying medium in entering said chamber.

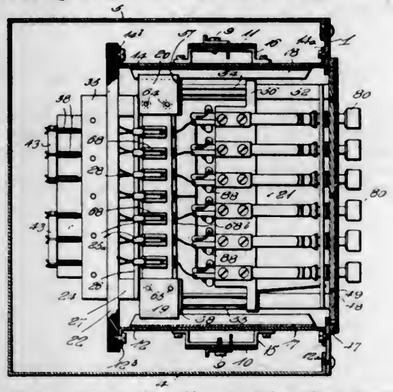
2,287,796
APPARATUS FOR MEASURING MECHANICAL POWER AND/OR TORQUE
Wayne C. Hall, Washington, D. C.
Application January 26, 1940, Serial No. 315,722
6 Claims. (Cl. 265—25)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In combination with a power shaft a space discharge device comprising an envelope enclosing at least three electrodes, at least one of which is electron emissive and at least one of which is movable with respect to the envelope, means for securing said envelope and at least the movable electrode to said shaft at spaced points therealong to thereby cause an increase in resistance between a plurality of electrodes simultaneously with a decrease in a like resistance upon subjecting the shaft to torsion, a bridge circuit in which the space discharge device is connected to form two branches thereof, a generator driven by said shaft and an instrument for indicating a quantity that is proportional to both the torque and speed of the shaft, the output terminals of said generator being connected across a diagonal of the bridge circuit and the instrument being connected across the remaining diagonal thereof.

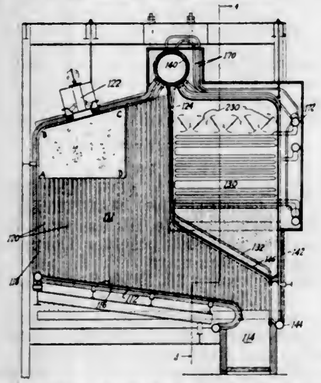
2,287,797
APPARATUS FOR CONTROLLING ELECTRIC CIRCUITS
Stanley M. Hanley, Grosse Pointe, Mich., assignor to Power Equipment Company, Detroit, Mich., a partnership
Application July 29, 1939, Serial No. 287,425
5 Claims. (Cl. 175—298)

1. A switching system comprising in combination, a fixed frame, insulated panel means mounted on said fixed frame, pin connectors supported with respect to one side of said insulated panel means, selector switches connected with said pin connectors and mounted with respect to the other side of said insulated panel means, apertured front panel means mounted in parallel relation to said insulated panel means opposite said pin connectors, a removable frame insertable into and removable from said fixed frame through the aperture in said front panel means, said removable frame carrying a multiplicity of electrical switches operative to effect various circuit per-



mutations and combinations, and socket connectors insulatingly supported on said removable frame and electrically connected with certain of the contacts on said electrical switches, said socket connectors being aligned to mechanically engage said pin contacts on said insulated panel means when said removable frame is inserted in position with respect to the front panel means of said fixed frame for establishing an electrical circuit between the contacts on said electrical switches and the selector switches on said insulated panel means.

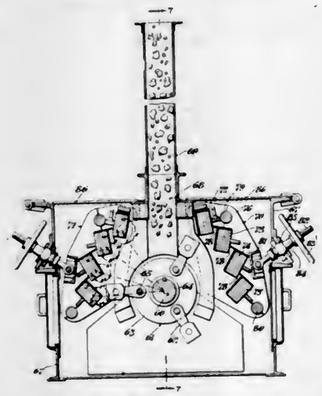
2,287,798
VAPOR GENERATOR
Ralph M. Hardgrove, Westfield, N. J., and Robert K. Behr, Mount Vernon, N. Y., assignors to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application August 3, 1938, Serial No. 222,780
8 Claims. (Cl. 122—235)



5. In a steam generator, a combustion chamber, a convection section in which spaced tubes

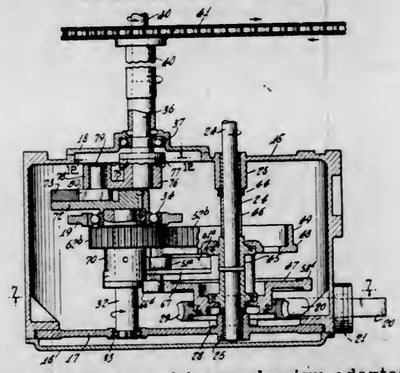
extend across the path of the furnace gases from the combustion chamber, spaced tubes connected into the fluid system of the generator and defining a division wall between the combustion chamber and the convection section, said tubes having lower portions disposed beneath the convection section, the lower portions of some of the tubes being arranged in wall alignment while the remainder are arranged as a screen across the furnace gas inlet of the convection section, refractory material filling the spaces between the tubes which are in wall alignment, and a baffle construction, extending upwardly from said wall aligned tubes and into the convection section to direct the furnace gases over the tubes of the convection section above the screen.

2,287,799
HAMMER MILL
Stanley D. Hartshorn, Wayne, Pa.
Application June 13, 1939, Serial No. 278,974
12 Claims. (Cl. 83—46)



1. A hammermill for frangible material comprising a rotor, a plurality of hammers carried by said rotor imparting a peripheral speed of over three thousand feet per minute to the hammers, a feed projecting material radially inward along a straight line into the hammer circle at a speed causing the full-sized pieces of material entering into the leading half of the hammer interval to pass within the hammer circle a distance at least equal to the average radii of such pieces so that the pieces are fully impacted and the fragments projected tangentially at the point of impact, and a plurality of separate anvil bars constituting the sole stationary means for impacting and fracturing the material as it passes through the mill and including an initial anvil bar having its impact surface extending inward toward the hammer circle and inclined away from the line of travel of the entering material to squarely receive and reduce said fragments from the initial hammer impact and reflect the pieces back into the hammer circle, and a succeeding anvil bar having its impact surface extending inward toward the hammer circle and inclined toward the line of the entering material to squarely receive and reduce the fragments reflected into and reduced and re-projected by the hammers, the fragments passing back and forth between the hammers and anvils being reduced to predetermined size by impact and discharged without substantial attrition between the hammers and stationary surfaces of the mill.

2,287,800
INTERMITTENT DRIVE MECHANISM
Thomas Blair Hawkes, Champlain, N. Y., assignor of one-half to The Sheridan Iron Works, a corporation of New York, and one-half to T. W. & C. B. Sheridan Company, a corporation of New York
Application June 13, 1940, Serial No. 340,272
6 Claims. (Cl. 74—436)



1. A combination drive mechanism adapted to the uses described, having an intermediate rotor between driving and driven rotors, and comprising in combination, first, an intermittent drive mechanism between the driving and intermediate rotors of a kind having sector gearing to transmit in each cycle, between dwells, a substantial stage of fast drive with smooth acceleration and deceleration between dwells and gear drive, and, second, a continuous drive mechanism between the intermediate and driven rotors of a kind affording alternately faster and slower periods of rotation; said two mechanisms having coordinated connections to the intermediate rotor whereby in each cycle the faster period of the second mechanism occurs during the fast drive stage of the first mechanism thereby to enhance further the driven rotor speed during such fast stage, and whereby the slower period of the second mechanism is apportioned to occur during the acceleration and deceleration stages respectively of the first mechanism thereby to decrease the rates of acceleration and deceleration of the driven rotor and thus smooth these actions preceding and following each period of enhanced speed.

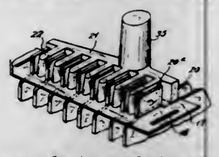
2,287,801
SCOURING AND ABRADING APPLIANCE
Charles Hepner, Chicago, Ill.
Application January 12, 1940, Serial No. 313,579
3 Claims. (Cl. 15—209)



2. An abrasive device such as a scouring pad, comprising a backing, an adhesive on a face of said backing, and a substantially planar sheet-like mass of metal wool composed of abrasive metal filaments extending in the same general direction, said mass being corrugated along substantially parallel lines transverse to said filaments, and forming regularly spaced troughs and crests along said filaments, with said troughs and the backing bonded together by said adhesive, leaving the intervening sides and crests of the abrasive metal filaments projecting free of said adhesive and backing and substantially free of

one another, the spaces between adjacent crests providing pockets for the reception of shavings or chips cut from the work by said filaments, whereby the efficiency of the crests is substantially unimpaired with continued use of said device.

2,287,802
MANUFACTURE OF STORAGE BATTERIES
James R. Hill, Cleveland Heights, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Application April 29, 1940, Serial No. 332,180
2 Claims. (Cl. 136—176)



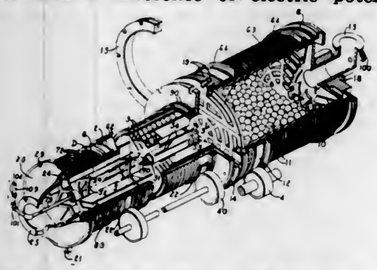
1. In the manufacture of storage batteries, the steps of providing a plurality of battery plates having projecting lugs, arranging the plates in a group with the lugs disposed substantially in a row, applying a slotted and longitudinally perforated strip to the plate group so as to cause said lugs to extend through the slots, lead-burning a connector to the lugs above the strip, and removing the strip from the plate group by parting the same along its longitudinal perforation.

2,287,803
DIRECT CONVERSION OF ALCOHOLS TO ACIDS
David C. Hull, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application September 7, 1938, Serial No. 228,822
6 Claims. (Cl. 260—531)

6. A process for the direct oxidation of a lower aliphatic alcohol to obtain the corresponding acid which comprises preparing a solution of a metal ion of a metal numbered 25 to 29 inclusive of the periodic table in an aliphatic acid as a catalyst solution, introducing material amounts of a lower aliphatic alcohol and lower aliphatic aldehyde into said catalyst solution said alcohol being in substantial excess, oxidizing the alcohol of the resulting solution of catalyst, alcohol and aldehyde by treating said solution with a gaseous oxidizing medium, and maintaining the temperature of the solution of catalyst, alcohol and aldehyde during its treatment with the gaseous oxidizing medium such that the solution is maintained in the liquid phase.

2,287,804
DEVICE FOR RECOVERY OF MINERALS
Henry L. Johnson, Bremerton, Wash., assignor of fifteen per cent to Carl S. Halverson, Bremerton, Wash.
Application July 22, 1938, Serial No. 220,807
34 Claims. (Cl. 209—179)

1. Mechanism for recovering values, as gold, from ore, comprising a rotative shell, a plurality of amalgam-coated baffles therein, rotative with the shell and contacted by the ore as the shell rotates, insulating means between the baffles and the shell, and means including an external current source having one terminal connected to the baffles to impress a charge of one sign thereupon, and its other terminal arranged to impress a static electric charge of opposite sign upon the ore particles, to charge the ore particles and the baffles with a difference of electric potential,



thereby to assist deposition of the values upon the baffles.

2,287,805
RIFLE RACK
William B. Johnson, United States Army
Application November 13, 1941, Serial No. 418,884
9 Claims. (Cl. 211—64)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

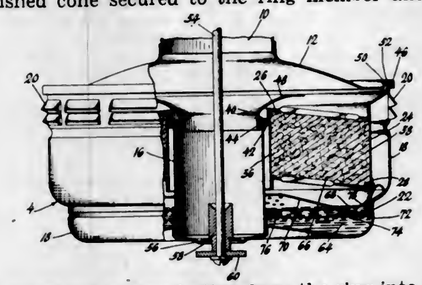


7. In combination with a rifle mounting bracket having a muzzle socket open at the top and the front, a retainer structure comprising an L-shaped cross bolt having a straight portion adapted to project across the front opening of the muzzle socket of the rifle bracket and frictionally engage the lower portion of the rifle barrel, the cross bolt including a pivot portion arranged at an angle to the cross bolt portion, said pivot portion of the cross bolt being mounted in angular relationship to the direction of release movement of the rifle whereby the frictional engagement between the bolt and the rifle will normally maintain the retaining cross bolt in position, the construction and arrangement being such that the straight portion of the cross bolt will snap into release position responsive to a sharp outward force applied to the rifle.

2,287,806
AIR CLEANER AND SILENCER ASSEMBLY
Herbert G. Kamrath, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 25, 1935, Serial No. 41,999
Renewed July 18, 1940
25 Claims. (Cl. 183—15)

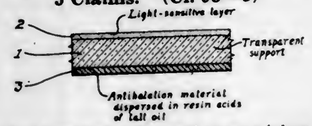
1. In an air cleaner, an outer casing, a filter assembly supported thereon but spaced from the

casing to form an annular air passage, a baffle comprising a ring shaped member, a truncated dished cone secured to the ring member and a



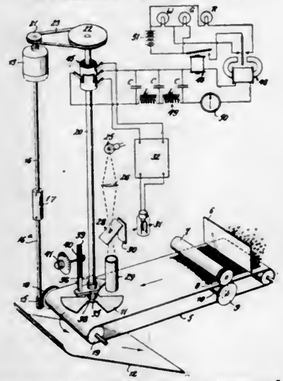
plurality of legs projecting from the ring into the space betwen the filter assembly and the casing to support the baffle below the filter assembly.

2,287,807
PHOTOGRAPHIC MATERIAL
John David Kendall and Kenneth John Challis, Ilford, England, assignors to Ilford Limited, Ilford, England, a British company
Application March 5, 1941, Serial No. 381,924
In Great Britain April 12, 1940
5 Claims. (Cl. 95—8)



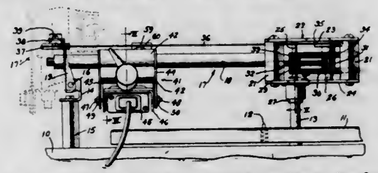
1. A photographic element comprising a transparent support, a coating of light-sensitive material on one face of the support and an antihalation layer on the other face of the support, said antihalation layer comprising a continuous film of the mixed resin acids of tall oil and, dispersed throughout said film, a colouring matter which is absorptive of light of wavelengths to which the light-sensitive coating is sensitive.

2,287,808
APPARATUS FOR DETECTING A DEFINITE COLOR PHASE DURING THE PROCESSING OF A MATERIAL
Henry Lehde, Brooklyn, N. Y.
Application June 12, 1940, Serial No. 340,212
2 Claims. (Cl. 88—14)



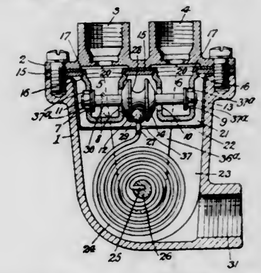
1. Apparatus for the comparison of color surfaces, comprising a light sensitive electrical element the output of which varies in accordance with the amount of light projected thereon, a rotating sector disk having a standard color surface on one side, a source of light, a reflecting tube directing light from said source against the standard color surface of the said sector disk, means for supporting a second color surface adjacent to the other side of the said sector disk, a mirror disposed intermediate one end of the said reflecting tube and said light source and directing to said light sensitive element the light reflected into the said tube from the said color surfaces, and means for detecting pulsations in the output of said light sensitive element.

2,287,809
PHONOGRAPH RECORD CUTTING MECHANISM
Anthon A. Leonard, Glenside, Pa., assignor to Heinze Electric Corporation, Lowell, Mass., a corporation of Michigan
Application June 17, 1940, Serial No. 340,915
14 Claims. (Cl. 274—13)



1. In a phonograph record cutter including means for supporting and rotating a record, a guide means extending transversely above said record supporting means, a cutter carriage movably mounted on said guide means, a cutter head carried by said carriage and carrying a cutting tool adapted to rest upon and cut a record carried by said record supporting means, a feed cable movably mounted adjacent said guide means, and means operatively connected to said record rotating means for moving said cable, means on said carriage for lifting said cutting tool from said record, and releasable means on and for clamping said cable to said carriage, the improvement comprising means operatively connecting said lifting and clamping means for successively operating said lifting means to lift said cutting tool and for thereafter releasing said clamping means.

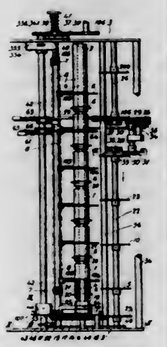
2,287,810
MIXING VALVE
James K. Lund, Oak Park, Ill., assignor to The Dole Valve Company, Chicago, Ill., a corporation of Illinois
Application December 22, 1938, Serial No. 247,265
4 Claims. (Cl. 236—12)



1. A mixing valve comprising an outer casing,

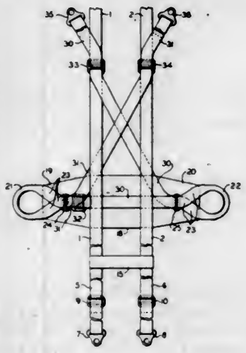
a removable cover therefor, two inlets for the water of different temperatures connected with said removable cover, water receiving chambers separate from said casing and said cover into which said inlets discharge, each of said water receiving chambers having two outlet ports and being completely closed except for said inlets and said outlet ports, a single shaft having portions extending into both of said water receiving chambers, four valves on said shaft, one for each of said ports, a mixing chamber into which said water receiving chambers are received, said outer casing being provided with an outlet, a coiled bimetal thermostat in said outer casing, having one end fastened to a normally stationary part inside the casing, said mixing chamber provided with an opening through which the other end of said thermostat projects into the mixing chamber, and means for connecting said end of said thermostat with said shaft so that the thermostat controls the position of said shaft and valves responsive to the temperature of the mixed water.

2,287,811
CHANGE GIVING VENDING MACHINE AND THE LIKE
Karl Hilding Lundqvist, Stockholm, Sweden, assignor to Kooperativa Förbundet Förening U. P. A., Stockholm, Sweden
Application November 7, 1939, Serial No. 303,212
In Sweden November 7, 1938
2 Claims. (Cl. 194—80)



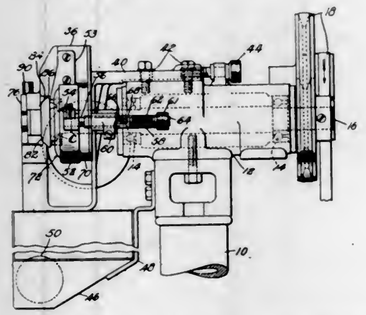
1. In a change giving vending machine having a rotary member, a coin controlled mechanism to rotate said member through an angle proportional to the total value of the inserted coins, a series of change delivery devices adapted to effect the delivery of coins of different denominations, respectively, and a series of change delivery discs controlling the different change delivery devices, respectively, the combination of a main delivery shaft, having secured thereto some of said change delivery discs respectively controlling change delivery devices for coins of lower denominations, an auxiliary delivery shaft, having fixed thereto at least one of said change delivery discs controlling a change delivery device for coins of one higher denomination, means drivingly connecting said rotary member with said main delivery shaft, and gearing between said main and auxiliary delivery shafts, said gearing being adapted upon rotation of said main delivery shaft through a predetermined angle to rotate said auxiliary delivery shaft through a predetermined smaller angle.

2,287,812
PARACHUTE HARNESS
Frank G. Manson, Dayton, Ohio
Application August 6, 1940, Serial No. 351,636
11 Claims. (Cl. 244—151)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



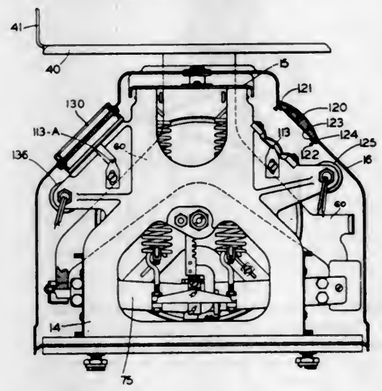
1. A parachute harness comprising a pair of substantially parallel lift webs extending the full length of the wearer's back, each of said lift webs terminating in a leg strap having a free end disposed in front of the wearer; a webbing strap attached transversely to said lift webs so as to be disposed horizontally across the wearer's back, said webbing strap having a leg-strap-engaging loop at each end thereof; an adjustable strap secured to said webbing strap and having reaches extending diagonally across the wearer's back and from approximately said loops respectively to an opposite shoulder of the wearer, said reaches terminating in free ends disposed in front of the wearer; and quick-release fastening means for securing together all of said free ends.

2,287,813
TRIMMING MACHINE
Donald G. McLean, Beverly, Mass., and George A. Miner, Goffstown, N. H., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application October 22, 1940, Serial No. 362,258
20 Claims. (Cl. 12—88)



1. In a trimming machine, a rotatable cutter having spaced arms, a hood extending about the cutter and open at one side thereof, and a disk secured to the cutter at the outer side, said disk being provided with a series of openings adapted to create a current of air inwardly between the cutter-arms to the interior of the hood.

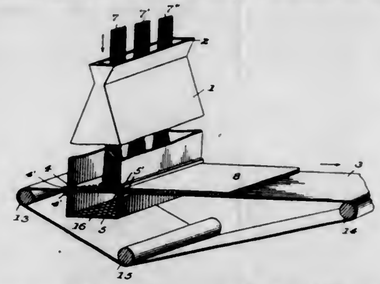
2,287,814
SCALE
David A. Meeker, Troy, and Kenneth C. Allen, Dayton, Ohio, assignors to The Hobart Manufacturing Company, Troy, Ohio, a corporation of Ohio
Application July 8, 1938, Serial No. 218,240
17 Claims. (Cl. 265—38)



1. A scale of the character described which comprises a base, a frame extending upwardly from the base, a chart supported by said frame, an enclosing decorative casing adapted to be received over said frame and having an opening therein for the movable platter support, a flexible strip mounted on said base and adapted to normally extend laterally outward from the periphery of the base into a position to be engaged and bent downwardly by said enclosing casing when received in position over said frame for sealing the lower peripheral edge of said casing with respect to said base, a load receiving platter, a substantially cylindrical platter supporting member extending upwardly through said opening in said casing, an annular member sealed with respect to said opening in said casing and closely approaching the wall of said platter supporting member throughout its periphery to maintain an effective sealing of the interior of the scale, and means positioned within the confines of said platter supporting member for removably fastening said platter in place thereon while maintaining the interior of said scale substantially sealed.

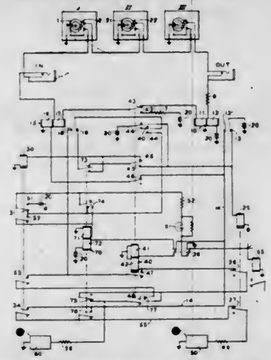
2,287,815
METHOD OF MAKING MAT OF GLASS FIBERS
Piero Modigliani, Livorno, Italy, assignor to Owens-Corning Fiberglas Corporation, Toledo, Ohio, a corporation of Delaware
Application March 3, 1939, Serial No. 259,704
In Italy March 8, 1938
9 Claims. (Cl. 19—156)

1. The method of producing a mat which comprises depositing a plurality of strips of artificial fibers upon a surface, each strip being composed of a plurality of layers of fibers, the fibers of each layer being parallel and arranged in predetermined crossing relation with a contiguous layer



of parallel fibers and commingling the deposited fibers.

2,287,816
DOUBLE SIGNAL SYSTEM
Manfred W. Muehter, Nutley, N. J., assignor to American District Telegraph Company, New York, N. Y., a corporation of New Jersey
Application July 12, 1938, Serial No. 218,795
11 Claims. (Cl. 177—367)

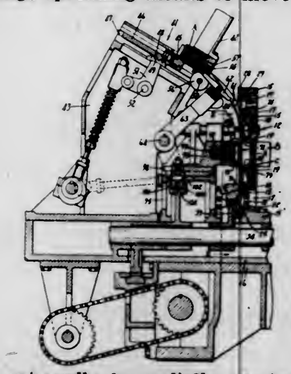


1. In a signalling system, a transmission line, a plurality of stations connected in said line, a relay responsive to ground impulses connected to one end of said line, another relay responsive to breaks in said line and connected to the other end of said line, a switching relay energized by contacts of said first relay for energizing said second relay through ground whereby said second relay responds to ground signals, a recorder and switching means controlled by said main switching means for connecting said recorder to contacts of said second relay whereby the ground signals are recorded during short-circuits of said line or said stations.

2,287,817
CAN END ASSEMBLING MACHINE
John H. Murch, East Orange, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application August 24, 1940, Serial No. 354,115
7 Claims. (Cl. 93—55.1)

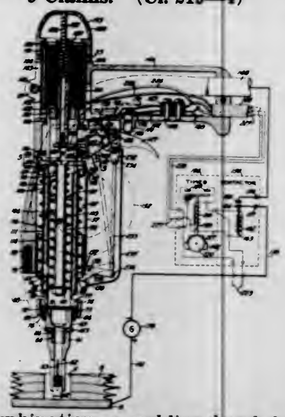
1. In a machine for assembling a flat fibre can end member within a rectangular fibre can body having an annular inwardly extending shoulder bead constituting a seat for said end and also setting off an outer terminal flange on said body for surrounding and enclosing said end, the combination of means for moving within and spreading said can body flange outwardly, means for

moving an end member into temporary engagement with said spreading means, and means for thereafter moving said can end member relative to and into wedging engagement with said can body flange spreading means to move the latter



radially outwardly by radially exerted pressure of said end member, thereby expanding outwardly said can body flange as said end member moves therewithin towards its said shoulder bead seat at the inner end of said body flange.

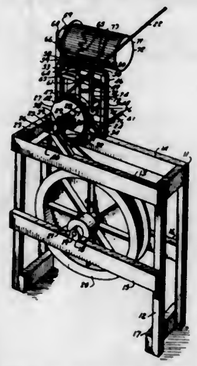
2,287,818
STUD WELDER
Edward F. Nelson, Vallejo, Calif.
Application May 31, 1940, Serial No. 338,179
9 Claims. (Cl. 219—4)



9. In combination, a welding head for carrying a first metallic member to be welded to a second metallic member, means for positioning said welding head relative to said second metallic member, and a single self-propelling element in said welding head for moving said first metallic member in a cycle from and toward said second metallic member.

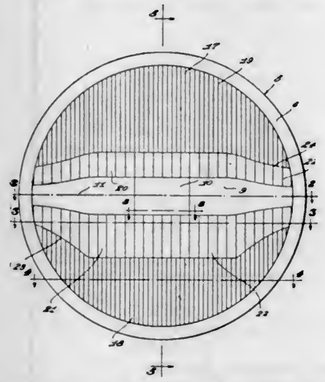
2,287,819
DEVICE FOR RECORDING DRILLING OPERATIONS
Paul Briscoe Nichols, Seminole, Okla., assignor, by mesne assignments, of one-half to Cities Service Oil Company, Bartlesville, Okla., a corporation of Delaware
Application May 21, 1938, Serial No. 209,257
3 Claims. (Cl. 234—5.8)

3. A recorder including a chart, means removably supporting the chart, means for advancing the chart, a stylus, means movably supporting the stylus in contact with the chart, a freely oscillatable member connected with the stylus and adapted upon oscillation to move the latter, a rotor member, one of said members constituting a magnet for effecting a magnetic drag between the members to actuate the oscillatable member, said oscillatable member being positioned adjacent the rotor member and being normally disposed substantially radial thereto, said oscillat-



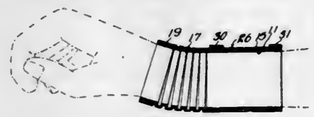
able member being adapted upon rotation of the rotor member to move out of and away from its substantially radial position with respect to the rotor member and to approach a tangential position with a portion thereof in proximity to the peripheral regions of the rotor member due to the magnetic drag between the members, and means connecting the rotor member with an operating mechanism having intermittent directional movement.

2,287,820
CONVERGENT RAYS SAFETY LENS
Gustaf H. Nystrom, Columbus, Ohio
Application November 7, 1940, Serial No. 364,717
5 Claims. (Cl. 240—41.4)



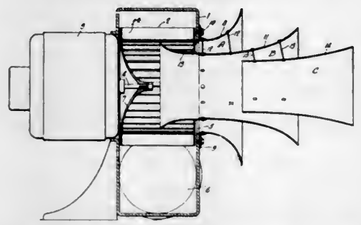
1. A lens having an intermediate horizontally disposed prismatic zone the central portion of which comprises two horizontal surfaces inclined toward each other to form an apex at the central transverse axis of the lens and being substantially rectangular in shape to produce a horizontal light beam and upper and lower converging light rays intersecting said beam, and lateral portions on opposite sides of the rectangular portion extending in the direction of the rim of the lens and gradually reduced in thickness from the rectangular portion to said rim, said prismatic zone being free from flutes, and vertical flutes disposed above and below the prismatic zone for producing light rays of subdued intensity.

2,287,821
ORTHOPEDIC COMBINED WRIST JOINT AND DISTAL FOREARM SUPPORT
Daniel O'Donovan, New York, N. Y.
Application April 10, 1940, Serial No. 328,845
2 Claims. (Cl. 128—77)



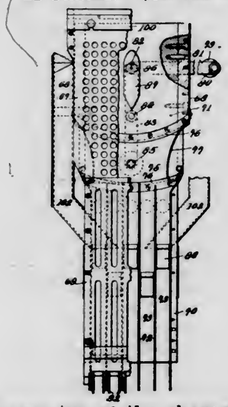
1. In a flexible wrist joint support, a flexible and pliable backing having a relatively narrow distal portion and a relatively wide proximal portion, an expandible and contractible gusset intervening and connected to said portions and having formed therein a plurality of substantially sinuous ribs disposed lengthwise of said support, a lining secured to said backing and having an intermediate portion provided with a plurality of substantially sinuous ribs fitting into and interlocking with said first mentioned ribs, a reinforcing and flexible strip secured to said proximal portion, complementary and disconnectible fastening means secured to said strip, and complementary fastening means secured to said distal portion.

2,287,822
BLOWER
Ralph K. Odor, Edmond, Okla., and Kern Dodge, Philadelphia, Pa., assignors to J. H. Everest, Errett Newby, M. W. McKenzie, William H. Odor, Ralph K. Odor, H. Barney Crawford, all of Oklahoma County, Okla., and Kern Dodge, Philadelphia, Pa., as trustees
Application July 26, 1940, Serial No. 347,730
8 Claims. (Cl. 230—127)



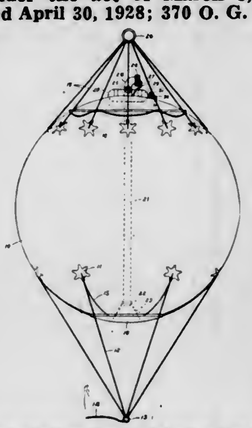
1. In a blower, a casing having intake and discharge ports, a centrifugal rotor intermediate said ports, a tubular assembly extending outwardly from the intake port of said blower and consisting of a plurality of funnel-like tubes decreasing in cross-sectional area toward said port and assembled in nested and relatively spaced relation one within another so as to afford between each adjoining pair of tubes a longitudinally extending intake channel, the sum of the effective intake areas of all the channels through said assembly as measured in the planes of the outer ends of the respective tubes being materially in excess of twice the area of the intake port of said casing.

2,287,823
CROWN CAP FEEDING AND POSITIONING MEANS
Paul E. Pearson, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application November 9, 1938, Serial No. 239,726
11 Claims. (Cl. 113—114)



1. In apparatus of the character described, a cap receiving and delivering chute including a cap receiving chamber, means for receiving caps from the chamber and arranging them in longitudinal rows, an agitator vane freely swingable on a pivot pin in said chamber, and means for reciprocating the pin transversely of its axis.

2,287,824
FUEL DELIVERY STATION
Paul E. Pihl and Charles F. Coe, United States Navy
Application June 1, 1938, Serial No. 211,170
4 Claims. (Cl. 114—0.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



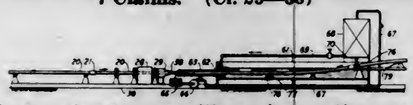
1. A fueling station comprising a portable, collapsible, inflatable fuel container, a collapsible fuel supply and discharge line extending within said container to adjacent the bottom thereof, a filler and supply line fitting extending into said container and connected to said container collapsible supply line, a gas pressure bottle, a conduit connecting said gas pressure bottle to said container, and a control and release valve connected to said pressure supply conduit.

2,287,825

APPARATUS FOR COOLING COATED PIPE

William R. Postlewaite, San Francisco, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware

Application July 30, 1938, Serial No. 222,207
7 Claims. (Cl. 25—38)



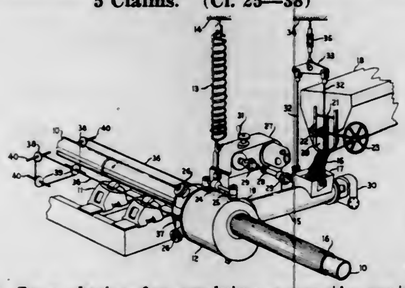
1. A cooler for use with a pipe coating apparatus of the type in which the pipe is advanced axially into and through an extrusion chamber to form a thick layer of hot thermo-plastic material on said pipe, comprising a tank, means for supplying liquid to said tank to maintain a predetermined level of the liquid in said tank, an opening in a wall of said tank positioned below said predetermined level through which opening said newly coated pipe passes into said tank, said opening having a diameter larger than the outside diameter of the coated pipe passing therethrough, and means in said opening to restrict the outflow of liquid from said tank through the opening around the newly coated pipe, said last named means being so constructed and arranged as to be out of contact with the coated pipe passing through said opening.

2,287,826

MASTIC NOZZLE FOR COATING PIPE

William R. Postlewaite and Rodney A. Vertrees, San Francisco, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware

Application July 25, 1939, Serial No. 286,428
5 Claims. (Cl. 25—38)



1. In a device for applying a mastic coating to pipes or the like which are being advanced relatively thereto to pass into and through said device, an extrusion nozzle having a generally horizontal longitudinal axis, means for supplying mastic into said nozzle to form a relatively thick coating on said pipe, a resilient support for said nozzle acting in a vertical line at right angles to its longitudinal axis, and means for varying the location of the point of support of said nozzle longitudinally along the nozzle axis with respect to the center of gravity of said nozzle so that said nozzle may be balanced to produce a smooth concentric coating on said relatively moving pipe.

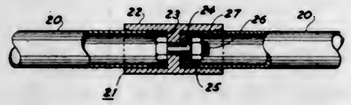
2,287,827

PIPE COATING COUPLER

William R. Postlewaite, San Francisco, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware

Original application July 30, 1938, Serial No. 222,207. Divided and this application April 26, 1940, Serial No. 331,849
3 Claims. (Cl. 285—1)

1. A temporary coupler for use in a pipe coating apparatus of the type in which lengths of pipe are advanced successively into and through an extrusion chamber to form a thick layer of corrosion resistant material on said pipe lengths, said coupler comprising cylindrical means provided with opposed bores of substantially uniform



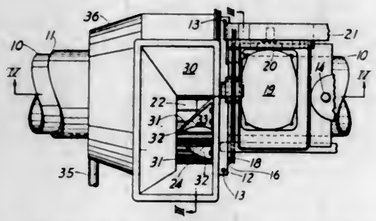
diameter, each of said bores adapted to receive and protect an end of two successive lengths of pipe to be coated so that no coating will be deposited for a predetermined distance along said pipe length, and means in one of said bores operable from the opposite bore to engage one of said pipe lengths.

2,287,828

PIPE COATING APPARATUS

Lloyd Bryan, Los Angeles, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware

Application May 2, 1940, Serial No. 332,878
6 Claims. (Cl. 25—38)



1. In a device for continuously applying a relatively thick coating of mastic to a pipe or the like, a body having a tapered outlet nozzle to define the outer diameter of said coating and to compact said mastic onto said pipe, a cylindrical outer sleeve communicating with said nozzle, a mastic inlet opening for said sleeve, an inner sleeve concentric with said outer sleeve and spaced from said pipe to be out of contact therewith, said sleeves cooperating to form an annular chamber extending substantially longitudinally with respect to said pipe, a rotatable ring forming one end of said annular chamber, and a plurality of blades secured to the inner face of said ring and adapted to be rotated thereby within said annular chamber to urge said mastic into said tapered nozzle.

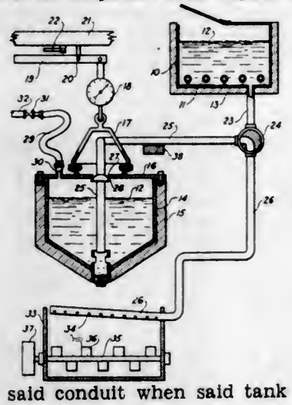
2,287,829

LIQUID METERING DEVICE

Lloyd Bryan, Los Angeles, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware

Application May 3, 1940, Serial No. 333,152
6 Claims. (Cl. 221—95)

1. Apparatus for dispensing predetermined quantities of a liquid, such as melted bituminous material or the like, comprising a movable tank for said liquid, said tank having a closed bottom, means for weighing said tank and its liquid contents, a conduit independent of said tank and extending into the lower portion of said tank, valve means responsive to movement of said tank to close the top thereof at a predetermined point in its travel, and means for admitting a pressure fluid above the liquid in said tank to displace said liquid outwardly



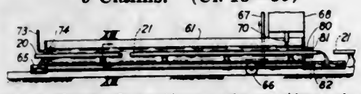
through said conduit when said tank is closed.

2,287,830

METHOD OF COATING PIPE

William R. Postlewaite, San Francisco, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware

Original application July 30, 1938, Serial No. 222,207. Divided and this application May 10, 1940, Serial No. 334,390
9 Claims. (Cl. 18—59)



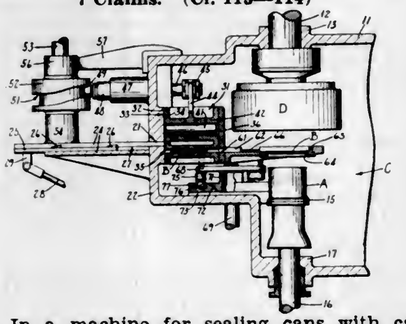
1. A method of continuously coating pipe comprising the steps of continuously advancing a pipe and simultaneously extruding a thick layer of heated thermoplastic material on the outer surface of said pipe, and immediately thereafter, and prior to any contact of said coated pipe with any solid supporting surface, passing said coated pipe below the surface of a liquid bath to cool and harden said coating to a degree where it may be supported without material deformation of said thermoplastic material.

2,287,831

CAN CLOSING MACHINE

Roland E. Renard, San Francisco, Calif., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application April 25, 1939, Serial No. 269,999
7 Claims. (Cl. 113—114)



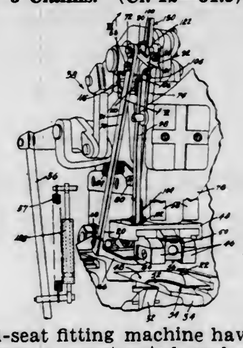
1. In a machine for sealing cans with can covers, the combination of a housing enclosing a vacuum chamber and having a wall provided with a can cover entrance port, a wall inside said chamber and spaced relative to said housing port wall and having a cover discharge port therein disposed in longitudinal alignment with and spaced vertically out of register with said entrance port, a reciprocable slide valve interposed between said housing port wall and said inside wall and having a pocket open at its opposite ends adapted to retain a can cover, and means for bodily moving said slide valve vertically first in one direction into a position which registers said pocket with said entrance port for receiving a cover therethrough from an outside source of supply while blocking off said inner discharge port against the entrance of atmospheric air into said chamber, and then in the opposite direction to register said pocket with said inner discharge port for delivery of said pocketed cover therethrough and into said chamber while blocking off said entrance port against the entrance of atmospheric air into said chamber, and means for sweeping said cover from said valve pocket out through said inner discharge port and into said vacuum chamber.

2,287,832

HEEL-SEAT FITTING MACHINE

Charles A. Robinson, Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application September 16, 1940, Serial No. 356,942
5 Claims. (Cl. 12—31.5)



1. A heel-seat fitting machine having, in combination, means constructed and arranged to conform the heel-seat portion of a sole to a predetermined shape, said means comprising a crease plate having a concave work supporting surface, one or more knives for trimming a chip from the conformed heel-seat portion of the sole to form a heel-seat tab on the sole, an ejector having a work engaging portion mounted for swinging movement over and in close proximity to but spaced from said work supporting surface of the crease plate about an axis which is spaced a considerable distance from said plate and extends widthwise of the plate, mechanism for operating the ejector to remove the chip from said crease plate, and means for varying the position of the axis about which the ejector is swung lengthwise of the plate.

2,287,833

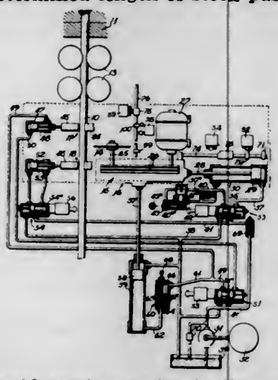
CUTOFF MACHINE

William F. Ridgway, Rockford, Ill., assignor to The Ingersoll Milling Machine Company, Rockford, Ill., a corporation of Illinois

Application January 3, 1939, Serial No. 248,948
13 Claims. (Cl. 29—69)

1. A machine for cutting off successive longitudinal sections from a length of stock moving

continuously in a downward direction, said machine having, in combination, a vertically movable carriage, a power actuated cutter mounted on said carriage for horizontal movement across the path of said stock, upper and lower clamps on said carriage positioned to grip said stock above and below the line of severance of the stock by said cutter, means responsive to the advance of a predetermined length of stock past the cut-



ter when said carriage is in starting position to initiate downward movement of the carriage, application of said clamps and advance of said cutter, means responsive to severance of the stock by said cutter to release said lower clamp and retract the cutter, and means responsive to retraction of the cutter out of the path of said stock to release said upper clamp and initiate upward movement of said carriage.

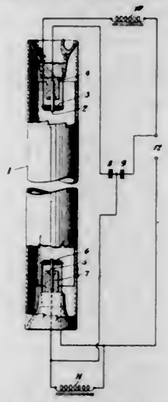
2,287,834

GAS DISCHARGE DEVICE AND CIRCUIT THEREFOR

Samuel Ruben, New Rochelle, N. Y.

Application July 5, 1940, Serial No. 344,031

2 Claims. (Cl. 176—124)



1. In combination with an electric gaseous discharge device comprising a sealed envelope, a gaseous atmosphere within said envelope, a pair of ionic discharge electrode assemblies at each end of said envelope each comprising a filamentary and cooperating electrode, the filament electrodes being connected to opposite terminals of an alternating current line with a current-limiting reactance in series; an auxiliary circuit connected to the line comprising an inductance and a series capacitance, one electrode assembly being connected to said inductance and the other electrode assembly connected to said capacitance, with current-limiting means to limit the discharge from said capacitance.

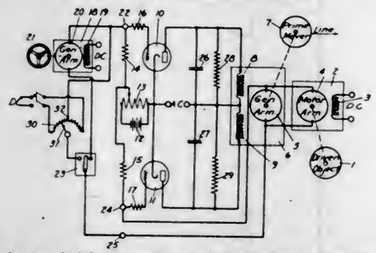
2,287,835

APPARATUS FOR CONTROLLING ROTATION

Howard A. Satterlee, Dayton, Ohio, assignor to Submarine Signal Company, Boston, Mass., a corporation of Maine

Application December 23, 1940, Serial No. 371,332

12 Claims. (Cl. 172—239)



1. A variable speed motor system comprising a motor having an armature, a generator for supplying power to said motor and having a continuously driven armature and two field windings, a pair of gaseous grid-controlled rectifiers, one of said rectifiers being connected to supply current from an alternating source to one of said field windings to provide a flux in one direction and the other rectifier being connected to supply current to the other field winding to provide a flux in the other direction and a grid circuit for said rectifiers including a common cathode connection, a center-tapped resistor connected by one end to the grid of one rectifier and by the other end to the grid of the other rectifier and by its center tap to the common cathode connection and means for impressing a controlled potential across said resistor comprising a source of direct potential controllable in polarity and magnitude connected in series with the motor armature.

2,287,836

PARASITICIDE

Frank B. Smith and John N. Hansen, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application May 31, 1940, Serial No. 338,043

20 Claims. (Cl. 167—31)

1. A parasiticidal composition comprising as a toxic ingredient an amino-acid ester salt of a phenol.

2,287,837

METHOD AND APPARATUS FOR APPLYING COATING MATERIALS

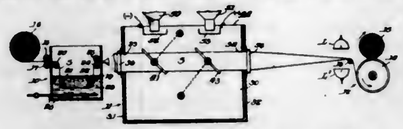
James S. Smyser, deceased, late of Quincy, Mass., by Granite Trust Company, executor, Quincy, Mass., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

Substituted for abandoned application Serial No. 722,288, April 25, 1934. This application January 22, 1941, Serial No. 375,432

6 Claims. (Cl. 117—17)

1. In the process of coating a surface with solid particles wherein said particles are to be

adhesively united to said surface, and which comprises forming an electrostatic field between a projecting and receiving electrode, the steps which include positioning an adhesively coated surface in said field, imparting an electrostatic



charge of the same polarity as that of the projecting electrode to substantially all of the particles to be coated before they enter said field and then introducing the particles thus charged into said field in a position to be impelled, oriented and dispersed by said field upon said adhesive surface.

2,287,838

METHOD OF MANUFACTURING CONFECTION AND PRODUCT

Joseph Stanley, Jackson Heights, N. Y., assignor to American Lecithin Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application October 17, 1938, Serial No. 235,450

20 Claims. (Cl. 99—23)

1. A confection composition of matter comprising a solid comminuted material dispersed in a fatty material, and also containing a proportion of a mixture of a phosphatide and a salt, the positive ion of which is hydrophilic, and the negative ion of which is lipophilic, dispersed therein.

2,287,839

PROCESS OF SPINNING

Johann Joseph Stoeckly, Teltow-Seehof, Germany, assignor to North American Rayon Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application November 23, 1938, Serial No. 241,958. In Germany November 23, 1937

4 Claims. (Cl. 18—54)

1. A process of producing curled, unfelted, full-bodied staple fibers which comprises extruding a viscose solution having a cellulose content of about 8% and an alkali content of about 5% and having a ripeness of about 3 to 1 degrees Hottenroth through a spinning nozzle into an aqueous spin bath containing about 250 to 350 grams per liter of soluble salts at a temperature of about 45° C. to form a water-soluble cellulose xanthate thread, cutting said thread into staple fibers of cellulose xanthate, mechanically opening said fibers, introducing said fibers into an acidifying bath containing about 10 to 50 grams per liter of sulphuric acid to decompose said xanthate fibers directly into curled, unfelted, full-bodied staple fibers of regenerated cellulose and then after-treating said fibers.

2,287,840

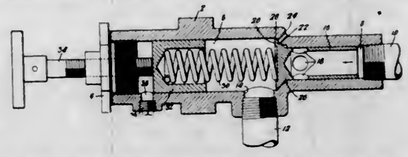
RELIEF VALVE

Frank E. Stratton, Beverly, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey

Application April 12, 1940, Serial No. 329,270

3 Claims. (Cl. 137—53)

1. A fluid-pressure relief valve comprising a housing having two alined elongated bores of different diameters, means in said housing providing a discharge opening communicating with the larger of said bores, a hollow open-ended pressure-operated valve member slidably mounted in the smaller of said bores and provided with a plurality of radial ports for connecting said smaller bore with said larger bore and said discharge port when said valve member is moved to open position and said ports withdrawn from said smaller bore, yieldable means opposing movement of said valve member to said open position and operating to return said valve member to a closed position in which said ports are within said smaller bore to cut off the flow of fluid through said ports, and an integral imperforate



head on said member positioned in one of said bores and arranged to remain in that one bore as the valve member moves between open and closed positions, said head having a cylindrical peripheral surface of slightly smaller diameter than the bore in which it is positioned whereby a restricted annular passage is provided between said head and the bore, said head operating in conjunction with liquid in the last-named bore to dampen the movements of said valve member between said open and said closed positions and to reduce the frequency with which fluid flow is cut off by the covering of said ports.

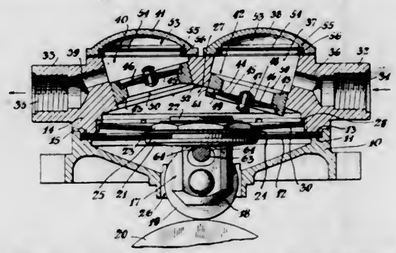
2,287,841

FLUID TRANSFER APPARATUS

Warner T. Tabb, Brooklyn, N. Y., assignor, by mesne assignments, to Reconstruction Finance Corporation, New York, N. Y., a corporation of the United States

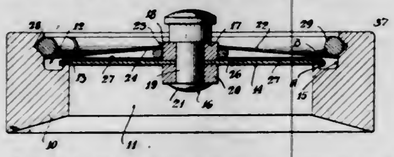
Application October 22, 1940, Serial No. 362,179

17 Claims. (Cl. 103—150)



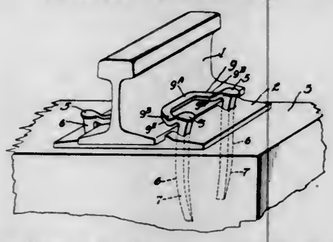
1. Fluid transfer apparatus comprising, in combination, a casing, a resilient diaphragm structure having lateral rigidity and certain spring characteristics peripherally mounted on said casing to form therewith a pump chamber, an outwardly projecting operating member rigidly mounted on said diaphragm by attachment thereto for substantial alignment of said member free from any bearing support, a diaphragm-biasing leaf-like spring structure having certain spring characteristics positioned in the chamber with outer portions thereof seated on said casing and the central portion thereof forming an abutment for said diaphragm structure, and means between substantially the central portions of said spring structure and said diaphragm structure to cause them to operate together to attain certain net spring characteristics.

2,287,842
VALVE
Warner T. Tabb, Brooklyn, N. Y., assignor, by mesne assignments, to Reconstruction Finance Corporation, New York, N. Y., a corporation of the United States
Application October 22, 1940, Serial No. 362,180
5 Claims. (Cl. 251—144)



1. A check valve comprising, in combination, a frame, a valve seat on said frame, a valve plate structure seated on said seat free from contact with said frame elsewhere and having a centering aperture, a leaf-like spring structure having lateral rigidity and a guiding aperture, spacing means comprising opposed projecting members one of which is received in the valve plate centering aperture and another of which is received in the spring guiding aperture and opposed abutments spacing said valve plate structure and said spring structure from each other, and means on said frame holding peripheral portions of said spring structure in a fixed manner whereby it is stressed to bias and center said valve plate structure to said seat, said spring structure being of such configuration and dimension as to provide for free passage of fluid through the valve when said valve plate structure is unseated and to serve as a stop for limiting travel of said valve plate structure.

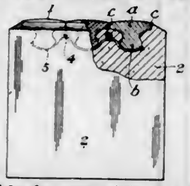
2,287,843
CLAMP
Francis Tvrzicky, Chicago, Ill.
Application September 5, 1939, Serial No. 293,485
15 Claims. (Cl. 238—349)



1. A unitary rail clamp comprising a pair of substantially vertically disposed spaced spike portions, and a laterally disposed cross-bar clamp portion having its end portions formed integrally with the upper portions of said spike portions, the rail-engaging section of said clamp portion being bodily laterally offset to extend beyond a horizontal line intersecting the centers of said spike portions, the said end portions of said cross-bar clamp portion extending upwardly into mergence with the upper ends of said spike portions.

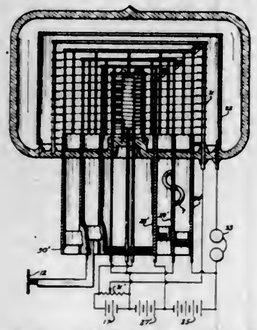
15. In combination with a tie, a tie-plate having a rail seat and a pair of spaced openings on one side of the seat, and a rail mounted on the seat, a member having a pair of spaced prongs extending through the openings and driven into the tie and also having a spring extending inwardly from each prong over the rail base and a connection between the inner ends of the springs engaging the top of the rail base to urge the rail against its seat, the prongs being joined only by said springs and connection.

2,287,844
RUBBER COVERED PAVING BLOCK
Marcel Tiberghien, Muizon, France, assignor to Societe Anonyme dite: "Caoutchouc Reno," Muizon, France
Application December 30, 1938, Serial No. 248,598
In France January 12, 1938
2 Claims. (Cl. 94—15)



1. A paving-block comprising a block of rigid material in one face of which are provided grooves having a bulged profile, the cross section of which first narrows towards said face and then joins with said face by a flared portion having rounded edges with smooth walls, and a rubber covering, the cross section of which shows two bulged parts joined by a narrow median part, one of said bulged parts forming a rib adapted to exactly fit in said groove and against its rounded and smooth edges, the other bulged part of said covering forming a head of flat cross section, wider than said groove and intended to rest on the edges of said groove and on the face of the block whereby relative movement between the rubber and rigid material is rendered possible.

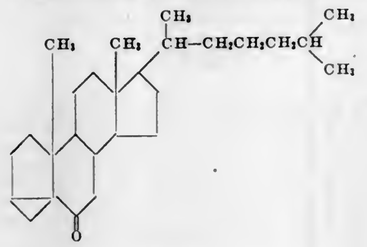
2,287,845
THERMIONIC VACUUM TUBE AND CIRCUITS
Russell H. Varian and David Packard, Stanford University, Calif., assignors to The Board of Trustees of The Leland Stanford Junior University, Stanford University, Calif.
Application March 8, 1939, Serial No. 260,546
4 Claims. (Cl. 250—27)



3. In a receiver of the character described, an electron emitting cathode, hollow resonant circuit means including a grid operating on the principle of space charge control, means for applying signal control potentials to said grid, a second hollow resonant circuit concentric with said first resonant circuit for deriving oscillatory energy from the electrons emitted from said cathode, a grid concentric with said second hollow resonant circuit for segregating said electrons into two groups according to their velocities subsequent to the derivation of said oscillatory energy, and means for collecting one group of electrons so segregated.

2,287,846
DERIVATIVES OF i-CHOLESTEROL
Everett S. Wallis and Erhard Fernholz, Princeton, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Original application January 16, 1937, Serial No. 120,880, now Patent No. 2,205,448, dated June 25, 1940. Divided and this application April 16, 1940, Serial No. 329,911
2 Claims. (Cl. 260—397.2)

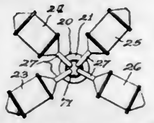
1. i-cholestanone of the following formula:



2,287,847
OXYGEN-EVOLVING SUBSTANCES
Thomas J. Webb, Plainfield, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application February 17, 1938, Serial No. 191,061
14 Claims. (Cl. 167—72)

4. A dry pulverulent composition comprising zinc peroxide and a soluble ionizable compound of a heavy metal having more than one well-defined valency series of compounds and melting within the range of 1060–1480° C.

2,287,848
METHOD OF CASTING
Carl Wessel, Chicago, Ill., assignor, by mesne assignments, to Carl Wessel and Lew W. Cleminson, both of Chicago, Ill., trustees
Application January 16, 1939, Serial No. 251,092
9 Claims. (Cl. 22—57)

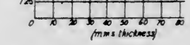


1. The method of casting which comprises melting the casting metal in a plurality of melting furnaces arranged to provide batches of molten metal for discharge into a ladle at regular intervals to maintain the head of metal in said ladle at predetermined height and to maintain the high temperature of metal in said ladle, maintaining the temperature of the metal in said ladle by insulation and by periodic supply of hotter metal, discharging the molten metal from said ladle at its lower end laterally and upwardly into a mold having a cavity and a downwardly directed filling opening, the molten metal welling up into said mold to fill the mold without splashing, and with a minimum contact of molten metal to the air in the mold, maintaining the temperature of the casting metal in the mold cavity by insulation of said mold, and keeping the mold in connection with the supply of molten metal while the metal solidifies in the mold, beginning at a point remote from the filling opening, downward to the filling opening, whereby the shrinkage is taken up by the supply of additional molten metal from said ladle until the casting is solidified to its filling opening, successively applying similar molds to said discharge opening of said ladle, and removing the molds from the castings after filling and congelation, to permit the free contraction of the casting without interference of the mold while cooling.

2,287,849
ANTISTICK SURFACE COATING
Clarence Walter Wilson, Norco, Calif., assignor to California Fruit Growers Exchange, Los Angeles, Calif., a corporation of California
No Drawing. Application August 17, 1940, Serial No. 353,125
14 Claims. (Cl. 206—84)

1. A method of producing relatively non-sticky surfaces of asphalt, bitumen, and the like, which comprises placing in immediate juxtaposition with the surface a coating containing effective quantities of pectate.

2,287,850
GRAY CAST IRON
Horace John Young, Bradford, England
Application November 22, 1937, Serial No. 175,904
In Great Britain February 10, 1937
13 Claims. (Cl. 75—123)

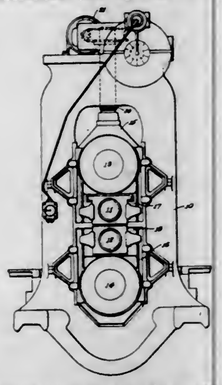


1. As a new article of manufacture, a machineable gray cast iron having an all-pearlitic metallographic structure containing no free ferrite and comprising silicon in amount in excess of 2½ up to 7%, and chromium in effective amount above .75% balanced with the silicon content in accordance with the dimensions of the section of the casting to produce an all-pearlitic structure therein without superheating.

2,287,851
AUTOMATIC SPEED CONTROL FOR CONTINUOUS ROLLING MILLS
Alexander Zeitlin, New York, N. Y., assignor, by mesne assignments, to Sperry Products, Inc., a corporation of New York
Application April 18, 1941, Serial No. 389,193
7 Claims. (Cl. 80—35)

4. In a continuous rolling mill comprising a plurality of mill stands, each having pressure rolls and a motor for driving said rolls, means whereby a constant quantity of material may be caused to pass through said rolls per unit of time, said means comprising means for generating a voltage signal at one mill stand in response to quantity of material passing through said rolls, means for generating a voltage signal at the adjacent mill stand in response to quantity of material passing through the rolls thereof, means for opposing the signals from the respective stands, and means whereby any differential volt-

age signal controls the speeds of the motors of



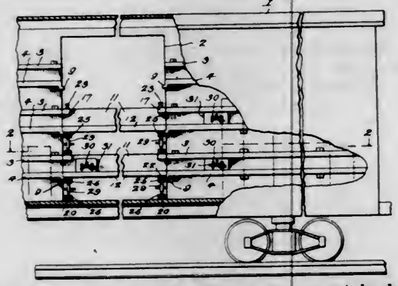
said mill stands to operate the same in directions so as to render said quantities equal.

2,287,852

BLOCKING APPARATUS

Charles A. Zyara, Whiting, Ind.

Application April 21, 1941, Serial No. 389,652
11 Claims. (Cl. 105—369)



1. The combination with a transport body, of a pair of horizontal parallel racks secured to each side wall of the body, the said pairs of opposed racks being parallel and coplanar, there being a door opening in each side of the body providing a hiatus in the racks at each opening, a blocking member removably mounted across the door opening, a rack thereon alined with the intersected rack in the body, a cross-head proportioned for insertion through the door opening and downwardly in the body back of the member, rack-engaging gears adjacent to the ends of the cross-head, and means for simultaneously rotating the gears to move the cross-head along the racks.

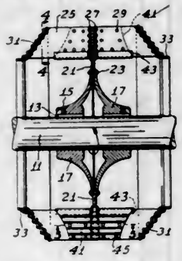
2,287,853

CENTRIFUGAL FAN

Thomas B. Allardice, New York, N. Y., assignor to B. F. Sturtevant Company, Boston, Mass., a corporation of Massachusetts

Application September 26, 1941, Serial No. 412,441
3 Claims. (Cl. 230—128)

1. A double intake centrifugal fan for handling abrasive-carrying gas, comprising a rotor having a shaft, a pair of hub members fixed upon the shaft, an integral annular centre plate with its inner margin clamped rigidly between the outer margins of the hub members, blades secured to the centre plate and extending axially across the rotor with their outer edges substantially flush with the outer periphery of the plate, means for supporting the intake ends of the blades, the periphery of the plate being removed immediately in advance of each blade for a depth not exceeding the radial depth of the blade and to a limited extent peripherally, leaving the disk intact immediately to the rear of each blade with an integral annular portion



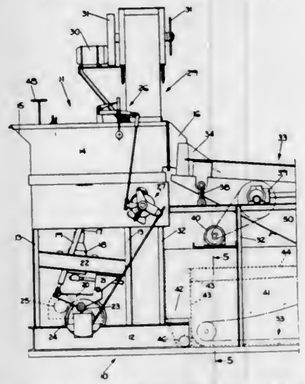
between the inner edges of the blades and the hub members, thus providing a limited free space in front of each blade in which space the opposite, inwardly flowing streams of abrasive-carrying gas will impinge directly upon one another, a sufficient peripheral portion of the integral plate being retained behind each blade to afford ample strength for the support thereof.

2,287,854

COAL WASHERY

George L. Arms, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio

Application February 7, 1939, Serial No. 254,990
3 Claims. (Cl. 209—13)



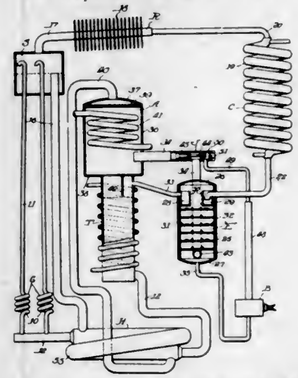
1. Coal washing apparatus comprising a unitary main frame, a gravity separator fixed to said main frame at one end thereof, a settling tank fixed to the opposite end of said main frame, a dewatering screen supported by the side walls of said settling tank, a chute connecting said separator and screen for delivering the overflow from said separator to said screen, means for delivering the liquid passing through said screen to the end of said settling tank opposite said separator and a conveyor mechanism in said settling tank for collecting and dewatering the settleable solids contained in said liquid, the coal passing over said screen and the solids removed from said settling tank being delivered at the same end of said frame and in juxtaposed position.

2,287,855

METHOD OF AND APPARATUS FOR PRODUCING REFRIGERATION

Earl Babcock, Chicago, Ill., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application May 21, 1930, Serial No. 454,216
Renewed September 1, 1933
43 Claims. (Cl. 62—119.5)



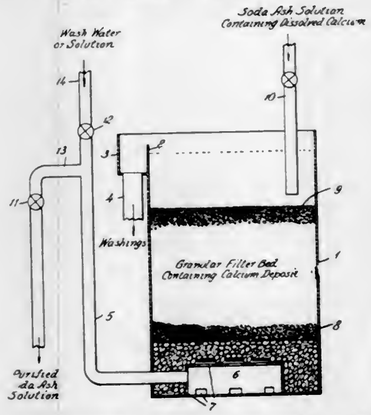
1. In an absorption refrigerating system, an evaporator, an absorber, conduits connecting said evaporator and absorber and adapted to convey an auxiliary pressure equalizing fluid therebetween and means for removing liquid from said evaporator, means for changing the liquid so removed to a vapor and means for causing the vapor so formed to produce circulation of said auxiliary agent through said absorber, evaporator and conduits.

2,287,856

PURIFICATION OF SODA ASH SOLUTIONS

Herman A. Beekhuis, Jr., Petersburg, and Ernest Gaskins, Hopewell, Va., assignors to The Solvay Process Company, New York, N. Y., a corporation of New York

Application November 22, 1940, Serial No. 366,544
10 Claims. (Cl. 23—63)



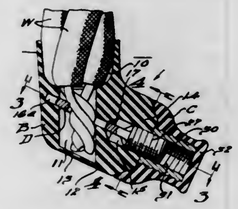
1. The process for removing calcium from a concentrated solution of soda ash containing dissolved calcium salt which comprises filtering said solution through a filter bed of granular material inert towards said solution and containing an amount of calcium salt deposited from a solution containing calcium and sodium carbonates, corresponding to at least 0.25 pound calcium per cubic foot of the granular material.

2,287,857

CONNECTOR

John D. Benfield, Grosse Pointe Woods, Mich.

Application February 25, 1941, Serial No. 380,503
2 Claims. (Cl. 174—87)



1. In a connector for binding together a plurality of flexible members under pressure, a body member having a cup-like socket formed therein and a substantially cylindrical bore forming a continuation of said socket for receiving the end portions of the flexible members, said body member having a keyway extending therein at an acute angle to said bore, said body member also having an offset portion provided with a substantially cylindrical bore extending at substantially the angle of said keyway, a clamping member having a relatively snug fit in said keyway and slidable longitudinally therein, said clamping member having a loop portion cooperable with said first named bore and a threaded shank portion normally fitting within said second bore, and a removable and rotatable cap member threadedly engaging said shank for moving said clamping member in a longitudinal direction in the keyway to draw the clamping member toward said cap member and clamp or bind the flexible members under pressure between the loop portion of said clamping member and the adjacent wall of the first named bore, said offset portion and said cap member having releasable cooperating locking means formed on their adjacent faces, the cooperating faces of said offset portion and said cap member extending at angles of approximately 45° whereby to hold the parts in alignment and thus reduce the possibility of breakage or splitting of the body in the location of said keyway upon rotation of the can member into locked condition.

2,287,858

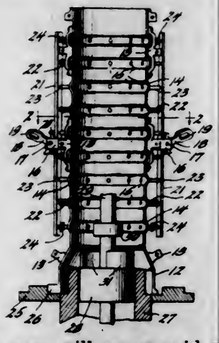
APPARATUS FOR MANUFACTURING CONCRETE PIPES

Eugene F. Bespalow, Memphis, Tenn., assignor to Choctaw Culvert & Machinery Company, Memphis, Tenn., a corporation of Delaware

Application July 23, 1941, Serial No. 403,726
6 Claims. (Cl. 25—36)

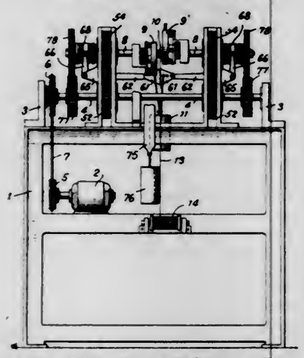
1. A generally cylindrical form for concrete pipes, said form having a plurality of longitudinal rows of spaced apertures, a bar disposed longitudinally of the form and overlying each row of apertures, a plurality of pins fixedly carried by said bar and extending into said apertures, guide means for said bars, spring means disposed between each bar and the outer face of the form, and cam devices carried by the guide means, whereby manipulation of the cam will cause said

pins to project interiorly of the form and re-



lease of the cam will cause said pins to be retracted by said spring means.

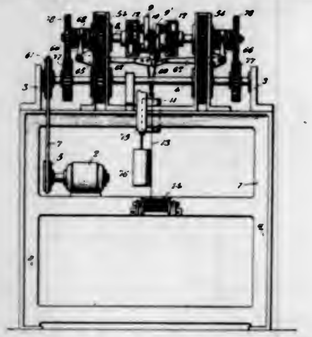
2,287,859
BALL WINDING MACHINE
Boris Bogoslowsky, New York, N. Y.
Application March 25, 1940, Serial No. 325,677
15 Claims. (Cl. 242—3)



1. In a machine for winding a strand to form a spherical body by imparting relative movement between the spherical body and strand feeding means, the combination of two discs having opposing working surfaces resiliently urged toward each other to hold the body therebetween and separately rotatable about respective eccentric parallel axes, means for rotating said discs to roll the body held therebetween along oppositely moving spaced circular paths tangent to a common plane bisecting said body, and means for revolving said discs about a winding axis equidistant from and lying in the plane of said parallel axes to give said body a component of winding rotation, and means for relatively moving working surfaces of said discs in a direction perpendicular to the said axes at timed intervals during the rotation of said discs about their respective axes.

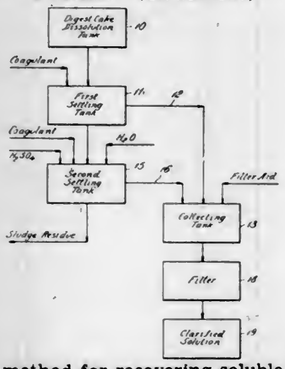
2,287,860
WINDING MACHINE
Boris Bogoslowsky, New York, N. Y.
Application November 30, 1940, Serial No. 367,870
9 Claims. (Cl. 242—3)

1. In a ball winding machine, in combination, a pair of oppositely disposed winding heads, said winding heads being mounted for rotation on a common axis to impart winding rotation to the ball about said axis, each of said winding heads comprising a pair of parts each having a working surface adapted to engage the ball, and each of said parts being mounted for rotation on an axis parallel to the axis of said winding heads, but eccentric thereto, said pairs of parts being adapted to impart to the ball additional com-



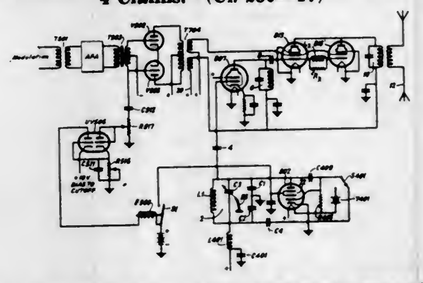
ponents of rotation about two additional axes inclined to said first named axis, and means carried by one of the parts of each of said pairs and movable relative thereto for imparting to the ball an additional component of rotation about an additional axis perpendicular to said first named axis.

2,287,861
TREATMENT OF TITANIUM SOLUTIONS
L'Roche G. Bousquet, Baldwin, and Maxwell J. Brooks, New York, N. Y., assignors to General Chemical Company, New York, N. Y., a corporation of New York
Application March 29, 1940, Serial No. 326,668
4 Claims. (Cl. 23—117)



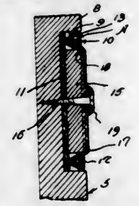
4. The method for recovering soluble titanium salt from material resulting from separation of titanium salt solution, of the group consisting of titanium sulfate and titanium chloride and having acidity factor less than 85%, from the bulk of solid matter initially contained in said solution, which method comprises treating the material, without substantial heating, with acid of the group consisting of sulfuric and hydrochloric acids in amount so that the acidity factor of the liquid phase of the mass thus formed is increased to not less than 100%, and then introducing into said mass water in amount such that the free acid concentration of the liquid phase of the resulting mass is not less than 55 gpl. equivalent sulfuric acid and separating titanium salt solution from residual solid matter.

2,287,862
TRANSMITTING SYSTEM
Joseph Brian, Montreal, Quebec, Canada, assignor to Radio Corporation of America, a corporation of Delaware
Application December 24, 1940, Serial No. 371,519
4 Claims. (Cl. 250—17)



1. In combination, an oscillation generator having grid, plate and cathode electrodes connected to circuits for the production of high frequency oscillations, said generator also having a screen grid, an amplifier having a cathode, a grid and a plate, means for supplying oscillations from the generator to the grid and cathode of the amplifier, a load circuit connected to the plate and cathode of the amplifier, a source of audio frequency waves, means to amplify the audio frequency waves, means to utilize the amplified audio waves for varying the voltage on the screen grid and plate of the power amplifier to modulate the output thereof, an electromagnetically operated switch for opening and closing the direct current circuit to the screen grid of the oscillation generator, a blocked electron discharge system in series with said electromagnetically operated switch normally preventing flow of current through the coil of said switch and thereby maintaining the same open, a rectifier for rectifying a part of the amplified signal waves, a time constant circuit across which rectified current is impressed, and a connection from said time constant circuit to said blocked electron discharge system operating to unblock said system in the presence of rectified voltage across said time constant circuit, thereby closing said switch and thereby permitting said oscillation generator to generate oscillations.

2,287,863
LEVEL
William C. Buckley, Reynolds, N. Dak.
Application June 5, 1941, Serial No. 396,758
2 Claims. (Cl. 33—213)



1. In a level, an elongated body having a scale straight edge and offset at its medial portion to provide a frame part having an annular recess in one face thereof, a liquid spirit tube of annular formation seated in said recess and of transparent material, a cushion disc between said tube and the inner wall of the recess, a disc-like member positioned in the recess within the annular tube and detachably secured to the frame part and provided with a marginal flange overlying a portion of the tube, a cushion gasket arranged between the tube and the flange and cooperative with the cushion disc in supporting the tube within the recess against breakage.

2,287,864
BETA OXY NAPHTHOIC ACID AND PROCESS FOR PREPARING THE SAME
John Burton and Philip I. Bowman, Passaic, N. J., assignors to Heyden Chemical Corporation, New York, N. Y., a corporation of New York
No Drawing. Application October 28, 1940, Serial No. 362,183
7 Claims. (Cl. 260—520)

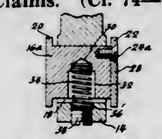
6. As a new product free-flowing crystals of beta oxy naphthoic acid substantially free from lumps, aggregates and fine powder, and having a wetting agent blended therewith.

2,287,865
COMBINED RING AND PIN
Charles A. Carleton, Minneapolis, Minn.
Application September 13, 1941, Serial No. 410,714
5 Claims. (Cl. 63—1)



1. A device of the kind described comprising a crown, and a ring-like pin passed through the crown with the long and short end projecting from the same, said short end having a secured sheath adapted to receive and hold the free end of said pin.

2,287,866
VIBRATION DAMPER
Carmer Criswell, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 19, 1940, Serial No. 361,859
6 Claims. (Cl. 74—604)

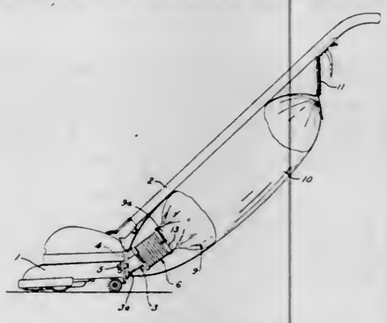


1. A rotatable shaft subject to disturbing impulses causing it to vibrate transversely, a part rigid with the shaft extending outward therefrom substantially normal to the shaft axis, said part having a hole therein, extending substantially parallel with the shaft axis, a damping body seated in said hole and capable of sliding therein in an axial direction and a spring arranged to exert its force on said body in opposition to centrifugal force during rotation of the shaft.

2,287,867
SUCTION CLEANER
George P. Dalger, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application February 23, 1940, Serial No. 320,358
6 Claims. (Cl. 181—42)

1. A bag-mounting muffler adapted to be attached to the exhaust outlet of a suction clean-

er, comprising a tubular member of resilient flexible sound-absorbing material reinforced throughout its length by a length of wire wound in the form of a helix, whereby said tubular member is prevented from collapsing upon flexure with-

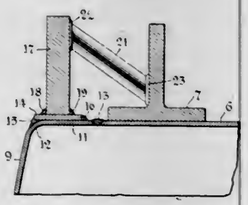


in its length, a fitting attached to one end of said tubular member for connection with the exhaust outlet from said cleaner, and a contractible clamping ring surrounding the outer end of said tubular member for the attachment of a filter bag thereto.

2,287,868
MANUFACTURE OF STORAGE BATTERIES
Robert A. Daily, Muncie, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
No Drawing. Application December 22, 1939. Serial No. 310,553
8 Claims. (Cl. 136—78)

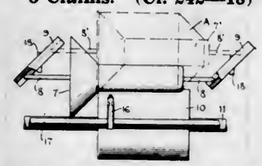
2. In a process for conditioning lead storage battery plates for use in storage batteries of the sulphuric acid type; the step of immersing the pasted plates in sulphuric acid solution having a specific gravity of between 1.320 and 1.774 in order to convert substantially all of the lead oxide to a basic lead sulphate.

2,287,869
PRESSURE TANK FOR MILK
Herbert H. Ehrman, Canton, Ohio, assignor to York Ice Machinery Corporation, York, Pa., a corporation of Delaware
Application July 5, 1939, Serial No. 282,884
3 Claims. (Cl. 220—71)



3. A metal tank comprising in combination a thin metal cylindrical shell; a thin metal flanged head connected with said shell by a butt weld between flange and shell; a doubler strip encircling said flange and welded thereto; a comparatively massive ring encircling said strip and welded thereto; and a staying structure encircling and reacting against said shell and connected with said ring near the outer margin thereof.

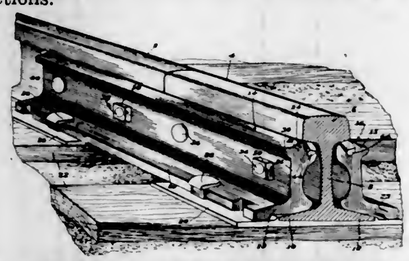
2,287,870
PACKAGE
William J. Elvin, Frostburg, and William T. Stearn, Cumberland, Md., assignors to Celanese Corporation of America, a corporation of Delaware
Application July 3, 1940, Serial No. 343,698
8 Claims. (Cl. 242—18)



1. A yarn package winding device comprising driving means adapted to drive a yarn package by frictional engagement with yarn on the surface thereof, traversing means adapted to traverse yarn to and fro over part of the length of said package, and means for producing a relative motion in the direction of the axis of said package between said package and the field of traverse of said traversing means as the axis of said package moves away from said driving means during the building up of said package, so as to shape said package during winding.

2,287,871
RAIL JOINT SPLICE
Claude L. Fero, Malden, Mass.
Application October 9, 1939, Serial No. 298,581
7 Claims. (Cl. 238—244)

1. A rail joint splice bar having a head, a web and a base, a recess in the inner round of the head and a bearing member seated in said recess and having an exposed surface adapted to abut against substantially only the fillet of the rail, said recess and member having conforming cross sections.



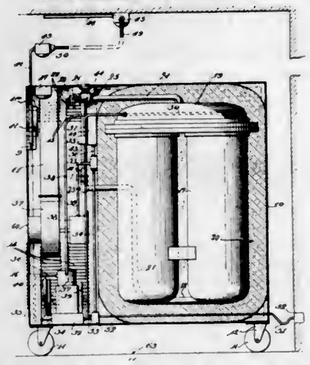
2. In a rail joint, the combination of a pair of rails joined end to end, each rail having a head, a web and a base, a pair of metal splice bars extending along opposite sides of the webs of the rails between the under surface of the rail heads and the upper surface of the rail bases and across the joint between the rails, each bar having head and base members and an intervening web, a longitudinal recess of constant cross section in said head member, a bearing member of constant cross section seated in said recess and held thereby against lateral movement, said bearing member having at least substantially half its depth embedded within said recess and having a projecting portion provided with a bearing face abutting the under surface of the adjacent side of the rail head, the portion of said bearing member received within said recess being shaped to fit the recess tightly and abut the metal of said head member forming the walls of said recess, and bolts holding the bars against the rails to secure the rails together.

2,287,872
PRINTER'S BLANKET
John W. Foster, Ridgewood, N. J., assignor to Tingue, Brown & Co., a corporation of New York
Application June 5, 1939, Serial No. 277,472
15 Claims. (Cl. 154—54.5)



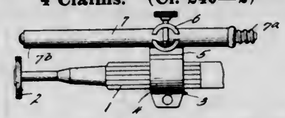
1. A printer's blanket of substantial thickness and having a resilient laminated body portion and a resilient laminated flap portion of the same material as said body portion, and also having a hinge connecting said portions and wall portions on adjacent end faces of said body and flap portions and having said wall portions longitudinally spaced by a distance at least as great as the thickness of said flap portion and cooperating with said hinge to bring portions of the underfaces of said body and flap portions into adjacency to form a substantially closed inner corner in certain angular relations of said body and flap portions.

2,287,873
FIRE EXTINGUISHING APPARATUS
Eric Geertz and Charles A. Getz, Glen Ellyn, Ill., assignors to Cardox Corporation, Chicago, Ill., a corporation of Illinois
Application May 19, 1941, Serial No. 394,196
20 Claims. (Cl. 169—31)



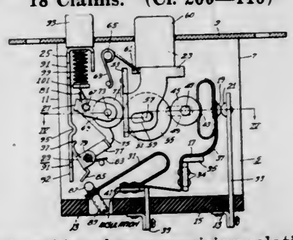
20. Fire extinguishing apparatus comprising the combination with the enclosure to be flooded with carbon dioxide vapors to create a fire extinguishing atmosphere, of heat responsive means located at different points in the enclosure and exposed to the temperatures prevailing at said points, a transportable cabinet adapted to be moved into said enclosure, means housed in said cabinet for confining carbon dioxide to be used for creating the said fire extinguishing atmosphere in the enclosure, a discharge device connected to said confining means and adapted to discharge the carbon dioxide into the enclosure, means for initiating the flow of carbon dioxide to the discharge device, heat responsive means for actuating the flow initiating means to effect discharge of the carbon dioxide upon detection of a fire, means for adjustably mounting the heat responsive means on the cabinet so that it may be projected into a position adjacent the ceiling of the enclosure to be exposed to the enclosure temperature at that level, means for connecting the heat responsive means located at different points in the enclosure to the heat responsive means adjustably mounted on the cabinet, and means carried by the cabinet for drawing carbon dioxide vapors from near the floor level of the enclosure and projecting them in the direction of the ceiling to effect circulation of said vapors and thereby maintain a uniform concentration of the extinguishing atmosphere throughout the height of the enclosure.

2,287,874
LAMP HOLDER ATTACHMENT FOR DENTAL HAND PIECES
Francis J. Gibbons and John J. Gibbons, Scranton, Pa., and Anna Gibbons, Brentwood, Md.
Application August 11, 1941, Serial No. 406,418
4 Claims. (Cl. 240—2)



1. A lamp holding attachment for dental handpieces comprising a clamp adapted to be fixedly attached to the handpiece, a block rotatably mounted upon the top of said clamp so as to swing about an axis substantially perpendicular to the longitudinal axis of said handpiece, means for retaining said block in different positions of rotatable adjustment, an arcuate seat formed upon said block disposed in a direction transversely of the handpiece, a cylindrical retainer resting within said arcuate seat, a slot diametrically dividing said retainer from one end inwardly for a substantial portion of its length and terminating in an enlarged cylindrical opening providing a socket for receiving a dental lamp, the arrangement being such that a dental lamp may be introduced laterally through the slot into said socket, releasable means for drawing together the slotted sections of the retainer for clamping the lamp in the socket, an ear located upon the block adjacent that end of the retainer opposite its slotted end, a stud projecting axially from the retainer through an opening in said ear, and a nut for frictionally holding the end of the retainer in contact, said nut being releasable to permit angular adjustment of the retainer upon its seat.

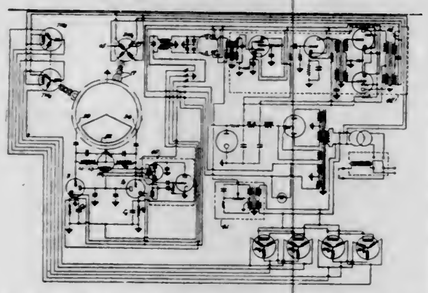
2,287,875
CIRCUIT BREAKER
Othmar Grober, Berlin-Siemensstadt, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 19, 1941, Serial No. 389,387
In Germany October 25, 1939
18 Claims. (Cl. 200—116)



18. A circuit breaker comprising relatively movable contacts biased to open-circuit position, operating means comprising a movable operating

member having a roller rotatably carried thereby for closing said contacts upon movement of said operating member to closed position, said roller also being movable relatively to said operating member to permit opening of said contacts, a releasable member having a roller rotatably mounted thereon engaging the roller of said operating member, said releasable member normally being held in a normal position in which the roller thereof serves as a fixed counter bearing for the roller of said operating member whereby the roller of said operating member forces said contacts closed upon movement of said operating member to closed position, said releasable member when released permitting opening of said contacts irrespective of the position of said operating member, a latch for restraining said releasable member in said normal position, and an electro-responsive trip element operable in response to predetermined abnormal conditions to move said latch to effect release of said releasable member, and spring means for automatically returning said operating member to open position and said releasable member to its normal position following a tripping operation of the breaker.

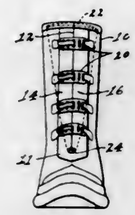
2,287,876
FOLLOW-UP MECHANISM
Norman L. Haight, East Orange, N. J., assignor to Sperry Products, Inc., Hoboken, N. J., a corporation of New York
Application March 20, 1941, Serial No. 384,387
3 Claims. (Cl. 172—239)



1. In a follow-up system for sensitive elements, a follow-up element, an electric system including a plurality of condensers, each condenser comprising a member carried by said follow-up element, a member carried by said sensitive element and a conducting dielectric, said members being so positioned that relative movement between said elements increases the capacity and decreases the resistance of certain of said condensers while decreasing the capacity and increasing the resistance of the other of said condensers to the same amount so that the total capacity and resistance of said system remains constant, and means whereby the differential capacities and resistances between said condensers actuate said follow-up element in the same direction as said sensitive element.

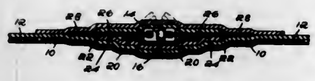
2,287,877
RUBBER SHOE
John E. Hard, Cranston, R. I., assignor to Goodyear Footwear Corporation, Providence, R. I., a corporation of Delaware
Application August 2, 1940, Serial No. 349,491
1 Claim. (Cl. 36—50)

A water-tight rubber shoe comprising a quarter having a vertically extending opening in its front; a foldable web closing said opening and having portions secured to the front of said quarter along the bottom and side edges of said opening; a facing member secured to the front of said quarter along the said bottom and side edges of said opening and beyond the edges of the said web portion and having flaps extending toward



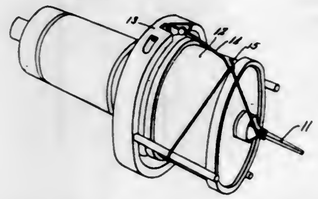
one another and adapted to abut along a frontal seam; fastening means attached to said flaps for holding them in abutting relation along said seam; and a drain opening in said facing member below said seam and flaps just above the bottom juncture of the quarter, web and facing member to provide a drain outlet from the space between said flaps and web.

2,287,878
RUBBER FOOTWEAR
John E. Hard, Cranston, R. I., assignor to Goodyear Footwear Corporation, Providence, R. I., a corporation of Delaware
Application August 2, 1940, Serial No. 349,492
1 Claim. (Cl. 36—50)



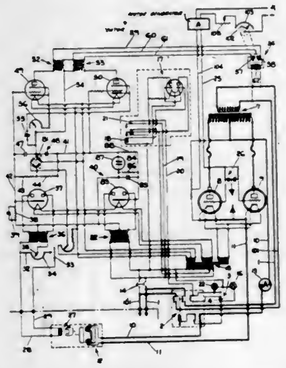
A quarter for rubber footwear having an outer layer of rubber material with an inner lining of fabric and having an instep seam; a "zipper" fastener for closing said seam having the inner surface of the portions of its fabric tapes remote from the metallic elements attached to the outer surface of said outer layer of rubber material; an inner layer of fabric material attached to the inner surface of the portions of said fabric tapes adjacent to the metallic elements; a layer of rubber material attached to the inner surface of the portions of said fabric tapes intermediate the heretofore mentioned portions thereof, the last said layer of rubber materially overlying and being attached to the aforesaid inner layer of fabric material and being attached to the outer layer of rubber material of the quarter; a similar layer of rubber material attached to the outer surface of the portions of the said fabric tapes adjacent to the metallic elements; a surface layer of rubber material overlying and being attached to the last said layer of rubber material and extending sidewise therebeyond for attachment to the outer surface of the portions of said fabric tapes remote from said metallic elements and to the outer surface of the outer layer of rubber material of the quarter; all said layers being severed along a plane passing through the instep seam at right angle to the normal plane of the "zipper" tapes.

2,287,879
TANGLED WIRE MASS
Daniel E. Hennessy, Leominster, Mass., assignor to Springfield Wire & Tinsel Co., West Springfield, Mass., a corporation of Massachusetts
Original application March 17, 1939, Serial No. 262,508, Patent No. 2,240,185, dated April 29, 1941. Divided and this application January 31, 1940, Serial No. 316,551
4 Claims. (Cl. 140—71)



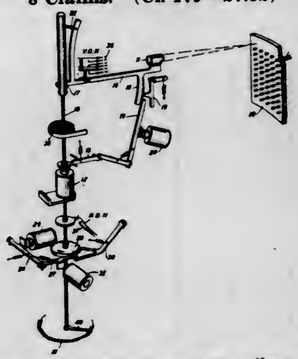
1. A wire mass for use as an abrasive, filter, or the like, comprising a continuous length of flat wire in the form of a plurality of loops of small diameter in relation to that of the mass, the continuous length of wire following a random course through the mass with adjacent loops in random planes.

2,287,880
APPARATUS FOR OPERATING VIBRATORY MOTORS
Harker H. Hittson, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application January 10, 1941, Serial No. 373,985
5 Claims. (Cl. 172—126)



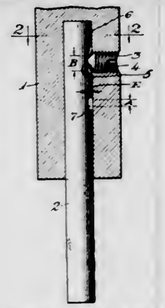
5. Vibration control apparatus comprising the combination with a vibratory electro-magnetic motor having a natural period of vibration, of means for supplying variable frequency current to said vibratory motor including an oscillating generator, and means constructed and arranged to respond to variations in the amplitude of vibration of said vibratory motor from a preselected value, and means controlled by said last named means to adjust the frequency of the current delivered to said vibratory motor toward or from its natural period of vibration thereby to maintain the amplitude of vibration of said vibratory motor substantially constant.

2,287,881
TELEPHONE SYSTEM
William H. T. Holden, Long Island City, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 24, 1939, Serial No. 258,128
8 Claims. (Cl. 179—27.52)



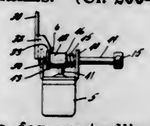
1. In a coordinate system, subscribers' lines arranged in horizontal rows, links arranged in vertical rows across said subscribers' lines, a cold cathode tube at each intersecting point of a subscriber's line and a link, each tube having electrodes connected to a subscriber's line and electrodes connected to a link, means for establishing connections from a calling line over the electrodes in a tube to one end of a link, means for establishing a light beam, means for momentarily flashing said beam on a tube having electrodes of a called line and another end of said link causing said last-mentioned tube to break down and establish a connection between said called line and said other end of said link over the associated electrodes, and means for signaling the calling line in case the called line is busy.

2,287,882
PUNCH
Lyman C. Huff, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application April 25, 1941, Serial No. 390,289
10 Claims. (Cl. 164—124)



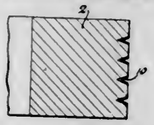
1. A punch of the class described of substantially the same diameter at both ends having a section of reduced cross-sectional area adapted to be contacted by a set screw for retaining the punch in a holder therefor, and having a second section of greater weakness than the first named section disposed intermediate the first named section and the outer end of the punch.

2,287,883
SWITCH CONTROL DEVICE
David P. Joffo, New York, N. Y.
Application March 7, 1941, Serial No. 382,248
5 Claims. (Cl. 200—39)



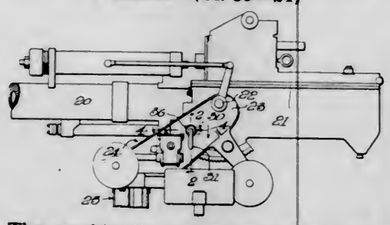
2. In a device for controlling current supply to electrically operated devices, a clock mechanism, a switch, a support for the switch, a lever journalled for movement on the support to actuate the switch, a pin on the lever, a detent on the support to engage the pin, a second detent movable into and out of the path of movement of the lever by the clock mechanism to release the pin from the first detent and engage with the lever, said second detent being moved out of the path of the lever by a further movement of the clock mechanism at a predetermined time and tensioning means associated with the lever to move the switch to its closed position when the second detent has released the lever.

2,287,884
PISTON RING
Walter E. Jominy, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 2, 1940, Serial No. 343,588
5 Claims. (Cl. 309—44)



1. A piston ring having a circumferential rubbing surface, an oil groove in said surface, said oil groove being lined with an antifriction material extending to said rubbing surface.

2,287,885
BREECH BLOCK OPERATING MEANS
Bryan P. Joyce, East Orange, N. J.
Application August 1, 1940, Serial No. 349,113
7 Claims. (Cl. 89—24)



2. The combination of a gun cradle having a lateral opening, a gun reciprocably mounted in said cradle and including a transverse rotatable breech block operating shaft which recoils with the gun, one end of said shaft being disposed near said opening, a rotatable member mounted in said opening and having an outwardly projecting portion by means of which it may be rotated, the axes of said rotatable member and the aforesaid shaft being unidirectional, and interengageable driving elements on said rotatable member and said one end of said shaft for establishing a driving connection from said rotatable member to said shaft when the breech block is to be operated by hand, the driving element on said shaft being rearwardly disengageable from the driving element on said rotatable member, whereby recoil of the gun with said driving elements engaged will not kick said rotatable member.

2,287,886
CONTAINER SHIP
William P. Kellett, New York, N. Y.
Application May 17, 1940, Serial No. 335,697
9 Claims. (Cl. 214—15)



7. A container ship having hatchways leading to the several decks, slotted guideways extending from said hatchways longitudinally of the decks, driving cables arranged within said guideways and extending across the hatch opening, sheaves arranged at the far side of said hatchways to guide said cables, sheaves arranged at the opposite ends of said guideways and power-driven to operate said cables, trolleys slidably mounted in said guideways, and containers having a centrally arranged draft rigging at each end to engage said trolleys.

2,287,887
SCARF AND SASH
Seymour L. Kramer, New York, N. Y.
Application June 19, 1940, Serial No. 341,252
6 Claims. (Cl. 2—91)

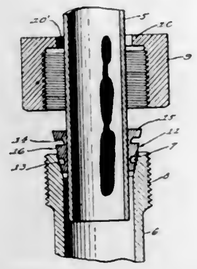


1. A scarf including an elongated piece of textile fabric and a ring connected to one end thereof disposed laterally thereon with its opening in the direction of the length of the scarf, so that the other end may be passed therethrough.

2,287,888
MANGANESE-BASE ALLOYS
William Kroll, New York, N. Y., assignor to Electro Metallurgical Company, a corporation of West Virginia
No Drawing. Original application January 17, 1940, Serial No. 314,229. Divided and this application April 27, 1940, Serial No. 332,017. In Luxemburg May 22, 1939
2 Claims. (Cl. 75—134)

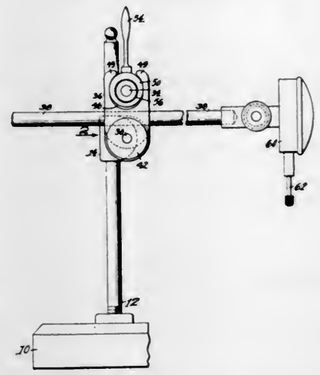
1. Alloy composed of manganese, copper, nickel and aluminum, the aluminum being between 0.1% and 10%, the nickel being between 0.5% and 10%, and the copper being between 1% and 35%, the remainder being manganese, the manganese percentage being at least 50%.

2,287,889
LOCK JOINT COUPLING
Ernest Krumsiek and Ray Kileen, Decatur, Ill., assignors to Mueller Co., Decatur, Ill., a corporation of Illinois
Application December 3, 1940, Serial No. 368,401
3 Claims. (Cl. 285—166)



1. A joint comprising two tubular portions in telescoped relation, the inner portion being deformable and the outer portion having a conical outwardly enlarged mouth, a conical compression ring of smaller angle than said mouth received in and having an external annular groove within the latter, said compression ring surrounding said inner member, and a nut threaded on said outer portion engaging and wedging said ring in said mouth and collapsing said ring circumferentially inwardly in the zone of said groove whereby a mating circumferential indentation is formed in said inner portion.

2,287,890
ADJUSTMENT FOR DIAL INDICATORS
Joseph A. Legassey, Leominster, Mass.
Application January 21, 1941, Serial No. 375,369
8 Claims. (Cl. 248—124)

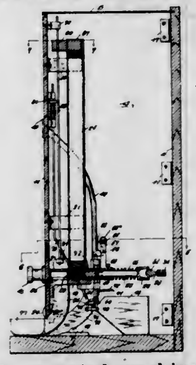


1. In an adjusting device for a dial indicator, a holder adapted to be secured to a support, a dial indicator holding clamp adapted to be rotatably secured to said holder, means to frictionally secure said holder to said support in approximate desired position, a pair of arms on said clamp, said arms having opposed bearing surfaces facing each other, an eccentric located between said arms and adapted to contact said bearing surfaces, and means on said holder supporting said eccentric.

2,287,891
PRODUCTION OF HYDROCARBONS AND THEIR DERIVATIVES FROM MIXTURES OF HYDROGEN AND OXIDES OF CARBON
Eduard Linckh, Ludwigshafen-on-the-Rhine, Germany, assignor, by mesne assignments, to Standard Catalytic Company, a corporation of Delaware
No Drawing. Application March 17, 1938, Serial No. 196,364. In Germany November 14, 1935
7 Claims. (Cl. 260—449)

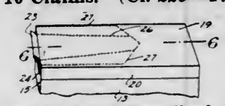
1. A process for the conversion of mixtures of carbon monoxide and hydrogen into hydrocarbons containing more than one carbon atom in the molecule which comprises contacting such mixture at a temperature between 150 and 500° C. with a catalyst obtained by treating fused ferrosoferric oxide with a reducing gas at a temperature between about 300 and about 850° C.

2,287,892
CHANGE MAKING MACHINE
Henry W. Lormor, Cleveland Heights, Ohio
Substituted for abandoned application Serial No. 216,712, June 30, 1938. This application October 5, 1939, Serial No. 298,090
6 Claims. (Cl. 194—91)



1. In a coin operated machine, a coin chute, means for temporarily supporting a coin after its insertion into the chute, a lever, a fulcrum for said lever, a pin upon which said fulcrum is carried, said chute having an opening therein through which said pin is adapted to move, said pin being movable through said opening into engagement with said supported coin, means for moving the lever bodily to carry said pin into engagement with the coin whereby movement of the fulcrum is stopped and then to swing the lever upon said fulcrum, and means adapted to be actuated by the swinging movement of the lever for delivering articles from said machine.

2,287,893
SEALED BOX WITH POURING SPOUT
Carl F. Lundberg, Minneapolis, Minn.
Application October 3, 1940, Serial No. 359,513
10 Claims. (Cl. 229—17)



1. A box of the kind described provided with a projectable pouring spout, the spout bottom-forming plate of which, when the spout is closed, forms a part of the top of the box, and a fragile

sealing strip applied to the box and covering the otherwise exposed bottom-forming plate of the spout, said sealing strip having a portion united thereto by fragile tearing lines that extend beyond the free end of said bottom-forming plate, the said sealing strip normally entirely covering and extending beyond the area of the bottom-forming plate of said spout and completely sealing the same.

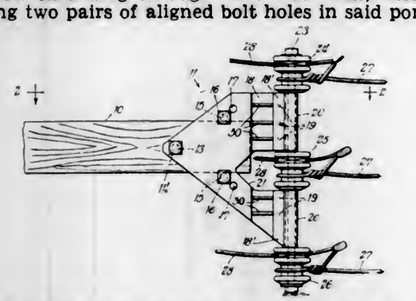
2,287,894
MECHANICAL PENCIL
John P. Lynn, Chicago, Ill., assignor to Dur-O-Lite Pencil Company, Melrose Park, Ill., a corporation of Delaware
Continuation of application Serial No. 213,754, June 15, 1938. This application October 10, 1941, Serial No. 414,398
1 Claim. (Cl. 120—17)



A mechanical pencil having, in combination, lead feeding means at the lower portion thereof and an upper chamber, a lead magazine slidably mounted in said chamber and having its upper end terminating short of the upper end of said chamber, actuating means for causing an up and down motion to said magazine mounted in said chamber and extending beyond the upper end of said pencil, means connecting said magazine and said lead feeding mechanism, and said magazine and actuating means having abutting engagement inside of said chamber and below the upper end thereof, and further having free sliding contact against the inside walls of said chamber, and said actuating means being held in operative position in said chamber by frictional engagement with the inside walls of said chamber, and being removable from said chamber by an endwise pull but being reversible in said chamber end to end for actuating said pencil in either position thereof, and said actuating means further having a space therein adapted to house an eraser.

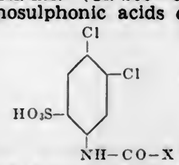
2,287,895
SECONDARY RACK CONSTRUCTION
Russell H. MacKinnon, Evanston, Ill., assignor of one-half to Eugene C. Black, Evanston, Ill.
Application December 29, 1939, Serial No. 311,502
6 Claims. (Cl. 248—67.7)

5. As an article of manufacture, a bracket for mounting an insulator pin and insulators and forming an endwise extension of a cross arm to one end of which it is adapted to be secured, comprising a one piece sheet metal member folded back on itself with the portions opposite the folded edge in parallel spaced relation for receiving therebetween the end of the cross arm, there being a pair of aligned bolt holes in said portions adjacent their outer ends for receiving a bolt extending through said cross arm, there being two pairs of aligned bolt holes in said portions intermediate their ends so spaced as to receive bolts extending across the upper and under surfaces of said cross arm in close proximity thereto but not through the same so as to prevent spreading thereof in the event of its cracking longitudinally as a result of the presence of an aperture therein for receiving said bolt, the folded edge portion being shaped to receive the insulator pin.



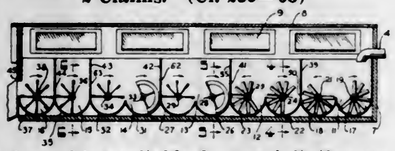
2,287,896
PRODUCTION OF ACYL AMINOSULPHONIC ACIDS
Henry Martin, Basel, Hans Heinrich Zaeslin, Riehen, near Basel, and Rudolf Hirt and Curt Glatthaar, Basel, Switzerland, assignors to the firm J. R. Geigy A. G., Basel, Switzerland
No Drawing. Application November 24, 1939, Serial No. 306,028. In Switzerland December 19, 1938
5 Claims. (Cl. 260—507)

1. Acyl-aminosulphonic acids of the formula



wherein X stands for a member of the group consisting of the halogen-substituted benzyl and benzene radicals, said acids possessing marked moth-proofing properties.

2,287,897
MANUFACTURE OF ORGANIC DERIVATIVES OF CELLULOSE MATERIALS
Herbert E. Martin, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware
Original application May 13, 1938, Serial No. 207,696. Divided and this application March 30, 1940, Serial No. 326,911
2 Claims. (Cl. 259—68)

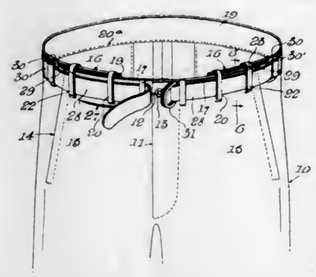


1. A machine suitable for precipitating an organic derivative of cellulose from solution, comprising a series of contiguous troughs for the solution, certain adjacent troughs forming zones and certain single troughs forming zones, inlet means at one end of said series of troughs, outlet means at the other end of said series of troughs, inlet means for the precipitant near the inlet means for the solution, and a series of rotary members, one in each trough, the rotary members in at least one zone near the inlet comprising a pair of stirrers having plates set in a spiral, said stirrers being adapted to mix material as it passes through said zone to the next zone, the rotary members in at least one further zone comprising a helical plate cooperating with a paddle member to draw out material as it passes to the next zone, and the rotary member in at least one zone near the outlet comprising paddles.

2,287,898
STABILIZATION OF GASOLINE AND THE LIKE
Jacque C. Morrell, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Original application November 11, 1929, Serial No. 406,515. Divided and this application May 12, 1938, Serial No. 207,574. Renewed May 4, 1940
5 Claims. (Cl. 44—9)

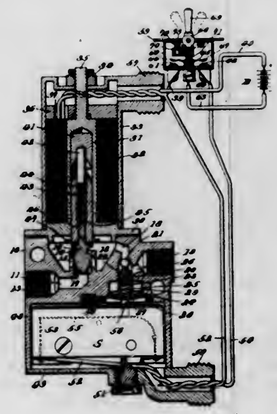
1. A motor fuel product consisting substantially entirely of cracked hydrocarbon distillates of the character of gasoline which tend to deteriorate and develop gums on storage, said product containing a small proportion of beta-naphthylamine such that its tendencies to deteriorate and develop gums are appreciably inhibited.

2,287,899
ADJUSTABLE WAIST CONSTRUCTION
William H. Nix, Lebanon, Tenn.
Application October 23, 1939, Serial No. 300,836
7 Claims. (Cl. 2—237)



1. A garment having a waist, said waist being severed downwardly from the upper edge and having overlapping portions at the zone of severance in relatively slidable relation, a loop member of a material having approximately the flexibility of cloth secured to both portions and slidable longitudinally and extending loosely over and loosely for a distance below the upper edge of one of said portions, a pocket having its opening at the zone of severance, said pocket at the top on opposite sides of its opening being secured partially to each portion, and the inner wall of said pocket being slit downwardly at said zone of severance.

2,287,900
PRIMING VALVE ASSEMBLY
Arthur L. Parker, Cleveland, Ohio
Application March 17, 1941, Serial No. 383,828
17 Claims. (Cl. 123—187.5)



1. A valve assembly for controlling the passage of priming fuel to an internal combustion engine, comprising a valve casing through which the fuel passes, a normally closed valve shiftable between open and closed positions for controlling the passage of fuel through said valve casing, means operable to hold said valve in an open position prior to starting of the engine in order to permit continued flow of fuel to the engine, and means responsive to starting of the engine for effecting release of the valve holding means on initial starting of the engine to permit simultaneous closing of the valve.

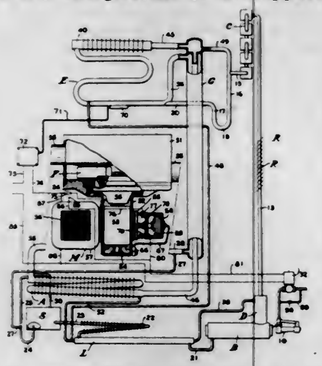
2,287,901
PRODUCTION OF IMPROVED OILS FOR LUBRICATING PURPOSES
Mathias Pier, Heidelberg, and Friedrich Christmann, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to Standard Catalytic Company, a corporation of Delaware
No Drawing. Application April 17, 1933, Serial No. 666,542. In Germany April 20, 1932
7 Claims. (Cl. 252—52)

1. An improved lubricating oil comprising a viscous hydrocarbon containing a waxy distillation residue of a product prepared by the condensation of an acid chloride of a carboxylic acid having a molecular weight of more than 200.

2,287,902
REFRIGERATION
Clarence G. Puchy, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio
Application February 5, 1940, Serial No. 317,388
33 Claims. (Cl. 62—5)

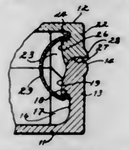
1. An absorption refrigerating apparatus of the type having an inert pressure equalizing medium circuit, a power-driven means for circulating said medium in said circuit, said power-driven means comprising a two-pole induction motor of the type having a gap between adjacent pole tips, a control for energizing the apparatus and means responsive to a temperature rise inci-

dent to the energization of the apparatus for



closing the gap between adjacent pole tips.

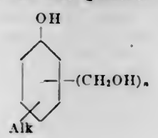
2,287,903
CLOSED RECEPTACLE OR CASE
Merrill L. Rathbun, Salamanca, N. Y.
Application August 1, 1940, Serial No. 349,203
1 Claim. (Cl. 220—31)



In a closed receptacle having a body and cover, cooperating pivotal means on said body and cover, spring seats integral with said body and cover and within said receptacle adjacent said pivotal means and separated thereby, each of said seats having two contact surfaces connected by a rounded surface, the seat in said body comprising an outwardly projecting shoulder defining a downwardly opening groove and the seat in said cover comprising an outwardly projecting shoulder defining an upwardly opening groove when said cover is in closed position, a flat spring engageable with said seats and serving to secure said pivotal means in operable relationship, each end of said spring having two contact surfaces connected by a rounded surface, the rounded surfaces being opposite and contacting the rounded surfaces of said seats, whereby during movement of the cover to and from closed position a rounded surface of said spring will rotate on the rounded surface of said seats.

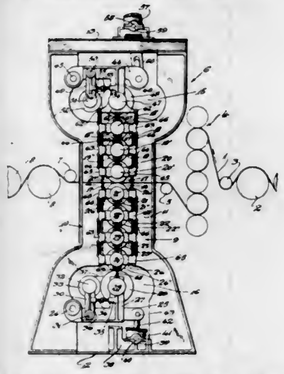
2,287,904
DERIVATIVES OF PHENOLS
Reginald John William Reynolds and Eric Everard Walker, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application August 29, 1940, Serial No. 354,698. In Great Britain January 3, 1938
3 Claims. (Cl. 260—624)

1. As new organic compounds, the hydroxyphenyl-carbinols of the general formula



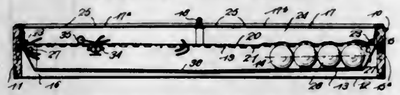
wherein Alk stands for an alkyl radical having from 12 to 18 carbon atoms in its structure, while n is an integer less than 3.

2,287,905
COATING MACHINE
Howard B. Richmond, Gilbert K. Dickerman and William F. Thiele, Wisconsin Rapids, Wis., assignors to Consolidated Water Power and Paper Company, Wisconsin Rapids, Wis., a corporation of Wisconsin
Application January 8, 1941, Serial No. 373,566
8 Claims. (Cl. 91—48)



1. A device for coating paper which comprises in combination, a frame, a pair of rolls supported adjacent their ends in said frame, said rolls having their axes horizontally disposed in vertical alignment with the opposed surfaces adjacent each other, means for passing a flexible web between said roll surfaces, a pair of rolls positioned adjacent the lower portion of said frame, said rolls having their axes in substantially horizontal alignment, the opposed surfaces of said last mentioned rolls being positioned adjacent each other to provide a nip for holding coating material, dams carried at the ends of said nip to prevent loss of coating material from said nip, one of said last mentioned rolls being positioned beneath said first mentioned rolls in supporting relation thereto, said supporting roll being of relatively larger diameter than said first mentioned rolls whereby to substantially prevent excess deflection of said first mentioned rolls, said supporting roll being adapted to transfer coating material to one of said first mentioned roll surfaces whereby said coating material is applied to a surface of said web.

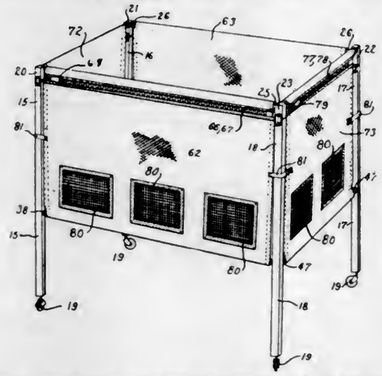
2,287,906
INCUBATION OF EGGS
Ralph R. Root, Lakewood, Ohio
Application January 17, 1940, Serial No. 314,279
10 Claims. (Cl. 119—36)



1. In an incubator, a tray having a substantially air-tight bottom and adapted to contain a plurality of eggs, an air-pervious sheet extending over and adapted to contact the tops of the eggs and provided with an electric heating means, and means for withdrawing air from within the tray at points below said sheet but above the general mid-plane of the eggs for causing a flow of air downwardly through said sheet and across the upper portions of the eggs substantially without causing a forced movement of the air surrounding the lower portions of the eggs.

10. The method of incubating eggs which comprises arranging eggs in a group, applying a heated air-pervious solid to the tops of the eggs, withdrawing air from the egg group at a point below said solid but above the mid-plane of the eggs, admitting and diffusing fresh air through said solid and over the upper surfaces of said eggs, and maintaining the air in contact with the lower surfaces of the eggs substantially free from currents.

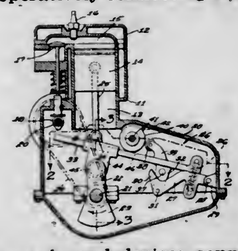
2,287,907
BABY BED
Theodore W. Schettler, Jr., Indianapolis, Ind.
Application April 4, 1940, Serial No. 327,760
1 Claim. (Cl. 5—98)



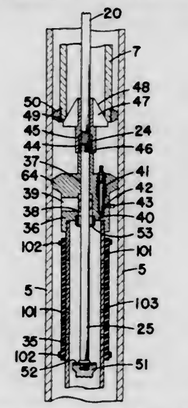
In a portable collapsible baby bed, four corner posts each post comprising separate upper and lower portions, a top side rail fixed to the upper end portions of a pair of said posts, a top side rail fixed parallel to the first side rail to the upper end portions of the other posts, top end rails engaging the upper end portions of corresponding posts, lower side and end rails removably engaging respectively with said lower post portions at a common horizontal elevation, all to form a bed frame, and canvas sections wrapping around said rails to form a floor area, side and end walls, and serving as bed frame stabilizing means, said upper post end portions being hinged to their lower post portions to permit swinging of the lower post portions inwardly under their respective interconnecting top side rails when their lower side rails are removed to permit frame collapsing, said lower side and end rails being removably received by their ends in post carried sockets, said canvas sections serving to draw and retain those lower rails in said sockets, said top end rails being hinged by one end each to the respective top end portions of diagonally opposite posts and detachably connected by the other end to the other diagonally opposite posts so as to permit these end rails to swing around toward the top side rails extending from those posts to which they are hinged.

2,287,908
INTERNAL COMBUSTION ENGINE
Henry Schmidt, Detroit, Mich.
Application November 4, 1940, Serial No. 364,201
7 Claims. (Cl. 123—197)

1. In an internal combustion engine having a piston and a crank, mechanism for operatively connecting the piston and the crank comprising, a lever member pivotally connected to the piston, a reaction member having a reaction surface varying in its distance from said pivotal connection, and a contact portion on said lever engaging and travelling along said reaction surface during operation whereby to provide a movable fulcrum therebetween during operation, means for operatively connecting said lever member to the crank, and devices connected to said lever and responsive solely to an explosion stroke of said engine for bringing said contact portion into engagement with said reaction surface and operative during other strokes of said engine to separate the same whereby to increase said distance and consequently to increase the torque on said crank during the explosion stroke only.



2,287,909
EXPANSION CHAMBER FOR PRESSURE CORE BARRELS
Benjamin W. Sewell, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware
Application February 10, 1940, Serial No. 318,266
6 Claims. (Cl. 255—72)

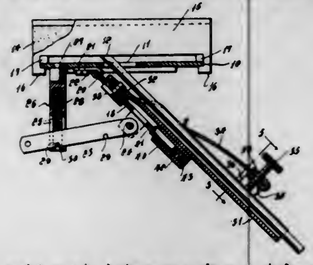


1. In a pressure core barrel provided with a pressure chamber adapted to be closed in a fluid-tight manner, a fluid-tight expansible member fluidly connected to the pressure chamber.

2,287,910
TOOL FOR HOLDING DENTAL INSTRUMENTS FOR SHARPENING
Albert N. Slack, Bakersfield, Calif.
Application October 3, 1940, Serial No. 359,612
3 Claims. (Cl. 51—220)

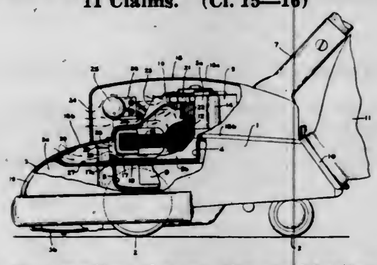
2. A device of the class described comprising a table having a slot through which an article

to be sharpened is adapted for projection, an apron pivoted to the table, holder means on the apron for the article, a post depending from the table, a link pivoted to the apron and passing



through said post, interengaging notch and pin means between the post and link, and spring means mounted by the post urging engagement of the notch and pin means.

2,287,911
SUCTION CLEANER
Eugene L. Snyder, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application April 29, 1940, Serial No. 332,217
11 Claims. (Cl. 15—16)



1. In a suction cleaner, the combination of a casing including a nozzle chamber and a fan chamber communicating with said nozzle chamber, said casing being relatively deeply recessed substantially throughout the top surface area thereof, a motor mounted within said recess with a cavity extending around the base thereof and having ports adjacent opposite ends thereof for the circulation of cooling air therethrough, and a cover member extending over the exposed portion of said motor and having laterally projecting marginal wall segments seating around the edges of said recess and closing off a portion of said cavity to form an air passage communicating with the ventilating port at the base of said motor frame, one of said marginal wall segments having an opening therein connecting said air passage with the atmosphere.

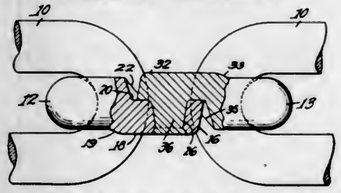
2,287,912
GARMENT BAG
John J. St. Laurent, Chickasaw, Ala., assignor, by mesne assignments to International Paper Company, New York, N. Y., a corporation of New York
Application April 5, 1940, Serial No. 328,058
1 Claim. (Cl. 206—7)

A garment bag comprising a flat tubular body including opposed wall portions, one of said wall portions being provided with a flap projecting beyond the end of the other wall portion, said other wall portion being provided with a centrally disposed upwardly tapering tab of less width than said flap and of a length equal to that of the flap, adhesive applied to the inner surface of said flap in spaced strips, the void between said spaced strips of adhesive being disposed generally opposite said tab, the upper corners of said tubular body being folded over onto the wall portion that includes said tab along



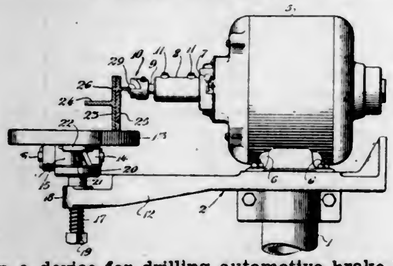
lines substantially meeting at the top, the sides of said tab substantially coinciding with the fold lines to thereby provide oppositely inclined shoulder portions, said flap and said tab conjointly forming a central valve for passage of a garment hanger hook and being automatically closeable following passage of the hook therethrough.

2,287,913
CHAIN LINK
Henry St. Pierre, Worcester, Mass.
Application July 9, 1941, Serial No. 401,604
9 Claims. (Cl. 59—87)



8. A chain link comprising a pair of generally U-shaped parts having their ends adapted to be connected, pins rising from certain of said ends and bores through certain other ends, said pins being received in said bores to complete the link, and the ends having the bores being thicker than the ends having the pins in a direction normal to the general plane of the link.

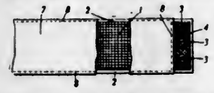
2,287,914
BRAKE LINING DRILLING SUPPORT
Frederick C. Stanley, Bridgeport, Conn., assignor to Raybestos-Manhattan, Inc., Passaic, N. J., a corporation of New Jersey
Application November 13, 1940, Serial No. 365,449
1 Claim. (Cl. 77—63)



In a device for drilling automotive brake linings while said linings are in situ upon a previously drilled brake shoe which comprises, a support, a platform mounted upon said support, a work-holding plate for holding said brake shoe pivotally mounted upon said platform whereby said plate may be rocked about said pivot in a vertical plane, a drill bit horizontally positioned

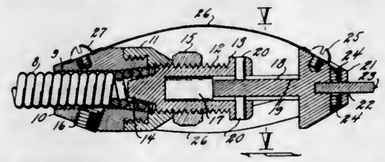
over said plate, means for rotating said drill bit, and means spaced from said plate pivot for adjustably supporting said plate at a predetermined position beneath said drill bit to adjust said brake shoe relative to said drill bit, said means comprising a screw having threads of relatively large pitch threadedly mounted in a portion of said platform, said screw being provided with a threaded aperture, a second screw having threads of relatively smaller pitch threaded into said aperture, said plate being supported by said second screw.

2,287,915
ELECTRICALLY HEATED CLOTHING AND EQUIPMENT
Eric Hardman Taylor, Brookside, Combs, England
Application December 11, 1940, Serial No. 369,666
In Great Britain March 4, 1940
13 Claims. (Cl. 219—46)



1. An electrical resistance heating element comprising a strip of wire gauze covered with flexible fabric and having press-stud connectors secured to said gauze for enabling electrical connection to be made therewith.

2,287,916
CLOGGED SEWER CUTTING HEAD
Robert F. Therrien, Toledo, Ohio, assignor of one-half to Henry A. Luelf, Toledo, Ohio
Application November 8, 1939, Serial No. 303,394
1 Claim. (Cl. 15—104.30)

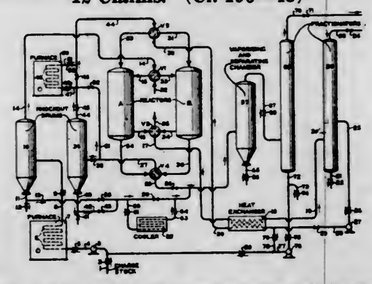


A passage-effecting tool comprising a nose, a rotary follower, a coupling from the follower to the nose including a splined connection providing telescopic means between the follower and nose, whereby the distance therebetween may be varied, and spring strip means fastened directly to the nose and follower, said spring strip means bowing outwardly from the rotation axis between the nose and follower upon resistance to progress of the nose.

2,287,917
MANUFACTURE OF CATALYTIC MATERIAL
Charles L. Thomas and Joseph D. Danforth, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application August 23, 1940, Serial No. 353,896
5 Claims. (Cl. 252—259)

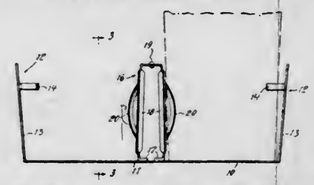
4. A process for the manufacture of granular catalyst particles from synthetically composited gels which comprises making an aqueous slurry of said catalyst gels having a paste-like consistency, forming said catalyst slurry into a uniformly thin layer not substantially more than two inches in thickness, shrinking under slow drying conditions at a temperature of approximately 150–200° F. to form a granular material of a particle size greater than 20 mesh, further drying the resulting preshrunk material at a temperature of 225–300° F. and then calcining at a temperature above 1000° F.

2,287,918
HYDROCARBON CONVERSION
Maynard P. Venema, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application August 21, 1940, Serial No. 353,514
12 Claims. (Cl. 196—48)



7. A process for the conversion of hydrocarbon oil which comprises vaporizing and heating said oil to a catalytic cracking temperature, supplying the heated vapors to a reactor comprising a catalytic reaction zone and a non-catalytic reaction zone and therein subjecting the same to contact with a mass of cracking catalyst in said catalytic reaction zone, fractionating the resulting cracked vapors to form reflux condensate and to separate fractionated vapors, supplying at least a portion of said reflux condensate to a non-catalytic reaction zone of a second reactor and therein passing the same in indirect heat exchange relationship with catalyst undergoing regeneration in a catalytic reaction zone of the same reactor to heat said reflux condensate and effect thermal conversion thereof, continuing said thermal conversion in the non-catalytic reaction zone of the first mentioned reactor, fractionating the resulting thermally cracked vapors to form reflux condensate and to separate a stream of fractionated vapors, supplying at least a portion of the last mentioned reflux condensate to the catalytic cracking step, and finally condensing the fractionated vapors.

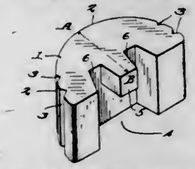
2,287,919
CAN GRIPPER
Eugene Ulzheimer, Jamaica, N. Y.
Application June 19, 1941, Serial No. 398,717
1 Claim. (Cl. 220—1)



A can receptacle comprising a base formed of a pair of spaced parallel members, end members extending upward from said base and having opposed horizontal jaws mounted thereon, a pair of laterally opposed intermediate upright members mounted on said base members, a spring joining said opposed intermediate members, each of said intermediate members having a pair of

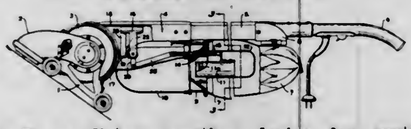
longitudinally spaced upright legs, each of said legs being twisted inwardly, and a spring on each of said legs on that surface thereof which faces toward the adjacent of said jaws.

2,287,920
COUNTER SHAPER
William H. Weaser, Pittsfield, Mass.
Application September 2, 1941, Serial No. 409,287
2 Claims. (Cl. 12—103)



1. A counter shaper so constructed as to function without resort to a toe section, and comprising a free block, of an outline conforming to the inner surface of a shoe-counter, and provided on its outer surface with friction means of such configuration as to acquire a firm hold on said surface, the length of the block being such as to confine the shaping to a counter, the block being provided with a lower recess, the block having vertical slots leading downward to the recess and defining a lug capable of being grasped vertically by the human thumb and finger and horizontally by a pair of pliers inserted into the slots.

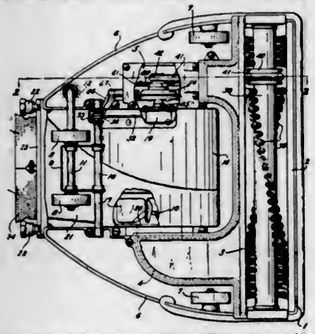
2,287,921
SUCTION CLEANER
Harry B. White, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application November 18, 1939, Serial No. 305,058
16 Claims. (Cl. 15—16)



1. In a dirt-compacting device for suction cleaners, the combination with dirt-separating means including a filter bag, a dirt receptacle communicating with said filter bag through an opening toward which the dirt progresses naturally, a dirt compacting member mounted adjacent the entrance to said receptacle to force dirt therein and means operated by the manual propulsion of said cleaner to actuate said dirt-compacting means to feed the dirt from said bag into said receptacle.

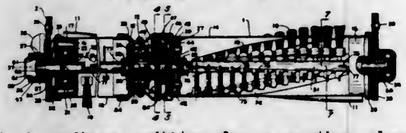
2,287,922
SUCTION CLEANER
Harry B. White, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application May 9, 1938, Serial No. 206,761
6 Claims. (Cl. 15—8)

6. In a suction cleaner of the type having an ambulatory nozzle unit including a nozzle and supporting means, a rotary agitator in said nozzle, and a pivoted fan chamber unit mounted on said unit including a fan chamber and a handle, a driving shaft actuating said fan, and power-transmission means between said agitator and said shaft; a rotatable pulley seat carried by said shaft, a stationary pulley seat carried by said nozzle unit, in axial alignment with respect to said shaft, and spaced axially from said rotatable seat, a pulley unit shiftable axially between



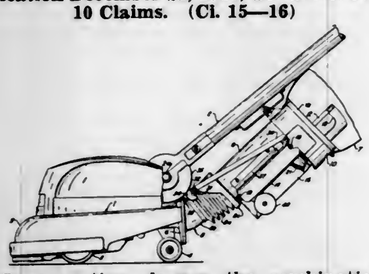
said pulley seats, centrifugally operated means carried by said shaft to secure said shaft to said rotatable seat, and means actuated by the pivotal movement of said fan chamber unit to shift said pulley unit between said seats.

2,287,923
SUCTION CLEANER
Harry B. White, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application December 29, 1939, Serial No. 311,512
15 Claims. (Cl. 15—8)



1. A unitary agitator for a suction cleaner comprising a rotary surface-contacting agitating element, a first rotatable element adapted to receive a rotating force, a second rotatable element, speed-reducing means connecting said first and second rotatable elements, and means to connect selectively said surface-contacting element to said first or second rotatable elements to determine the speed of rotation of said agitating element.

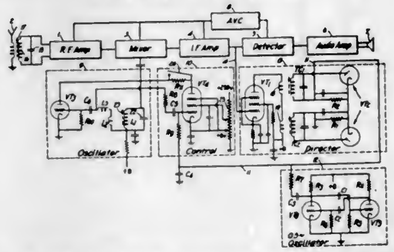
2,287,924
SUCTION CLEANER
Harry B. White, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application December 21, 1940, Serial No. 371,126
10 Claims. (Cl. 15—16)



1. In a suction cleaner, the combination of suction-creating means, a filter bag connected with the outlet from said suction-creating means,

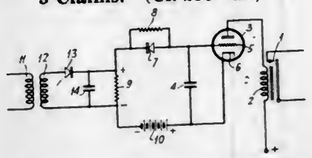
a dirt receptacle communicating with said filter bag at its lower end, a dirt compacting member for feeding the dirt from said bag into said receptacle during the operation of said cleaner, means to develop usable power during cleaner operation, mechanism for transmitting the power from said source to said compacting member, a frame supporting said compacting member and mounted for limited tilting movement, and means for tilting said frame at predetermined intervals to vary the path of movement of said compacting member.

2,287,925
RADIO RECEIVER
Sidney Y. White, Wilmette, Ill.
Application February 29, 1940, Serial No. 321,377
9 Claims. (Cl. 250—40)



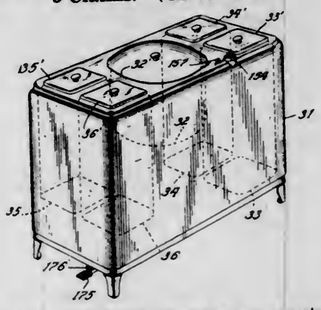
4. A radio receiver comprising an input circuit having an acceptance band at least as wide as the frequency spectrum of a plurality of transmitting stations having different carrier frequencies, a tunable circuit, means free of mechanical inertia for continuously and automatically tuning said tunable circuit over a range of frequencies substantially as wide as the acceptance band of said input circuit, a mixing device connected to said input and tunable circuits and a frequency responsive device connected to the output of said mixing device and arranged to render ineffective the action of said automatic tuning means on the tuning of said tunable circuit in response to currents in the output of said mixing device of a predetermined frequency.

2,287,926
SIGNAL ACTUATED ALARM CIRCUIT
Erich Ernst Zepler, Chelmsford, England, assignor to Radio Corporation of America, a corporation of Delaware
Application February 23, 1939, Serial No. 257,901
In Great Britain March 4, 1938
5 Claims. (Cl. 250—27)



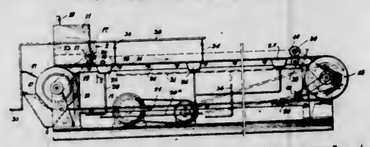
1. In combination, a thermionic discharge tube having grid and anode circuits connected thereto, a normally charged condenser in said grid circuit, a first and second resistor connected in series across said condenser, means for normally biasing said tube to cut-off, signal input means, means for rectifying said signal, means for applying said rectified signal across the first of said resistors whereby said condenser is slowly discharged through said second resistor and a unidirectional conductance across said second resistor, said unidirectional conductance being so poled that upon cessation of said signal the charge on said condenser is quickly restored to normal, and the cut-off bias is restored to the grid of said tube.

2,287,927
AUTOMATIC WASHING MACHINE
Henry W. Altorfer, Peoria, Ill.
Application November 23, 1938, Serial No. 241,901
5 Claims. (Cl. 68—148)



1. A self-contained laundry apparatus, comprising a small tub adapted to receive clothes but lacking capacity for sufficient washing fluid to wash the clothes, means in the tub rotatable therewith for agitating the contents thereof, mechanism to effect oscillation of said agitating means, a tank having a capacity many times that of the tub adapted to contain the complete washing supply of cleansing liquid, and means for forcing substantially continuous rapid circulation of the cleansing liquid in a course from the tank to the tub and from the latter back into the tank during the operation of the agitating means, whereby a batch of clothes in the tub may be subjected to a volume of changing liquid many times greater than the capacity of the tub during the period of operation of the agitating means.

2,287,928
PROCESS FOR TREATING PROTEINACEOUS MATERIAL
Francis Clarke Atwood, Newton, Mass., assignor to Atlantic Research Associates, Inc., Newtonville, Mass., a corporation of Delaware
Application November 27, 1939, Serial No. 306,257
1 Claim. (Cl. 260—120)



The process for treating casein curds to obtain a relatively low ash casein product which comprises the steps of advancing casein curds through a plurality of zones, subjecting the curds to suction forces at the first zone to filter and remove whey from the curds, spraying an aqueous washing liquid over the advancing curds at a second zone and maintaining the washing liquid and curds in contact with each other while the curds are advancing and until the curds reach a third zone and for a sufficient time to effect a solution in the washing liquid of impurities occluded in the curds, and filtering by suction

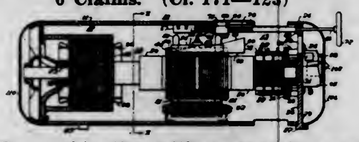
forces the advancing layer of curds and washing liquid at the third zone to remove the washing liquid and dissolved impurities.

2,287,929

MOTOR-GENERATOR SET AND GENERATOR

John H. Blankenbuehler, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 23, 1939, Serial No. 280,687
6 Claims. (Cl. 171—123)



1. The combination with a generator comprising, a frame with oppositely positioned field pole members secured within the frame, of a slidable magnetic shunt member disposed to bridge adjacent pole tips of the oppositely positioned field-pole members, adjusting means operable in the axial direction for effecting movement of the shunt member and indicating the output of the generator for different positions of the shunt member, and guide means positioned within the frame having bearing surfaces to support the shunt member so shaped as to guide it radially away from the pole tips as well as axially in response to operation of the adjusting means.

2,287,930

PLASTIC MATERIAL

Ralph Canter, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

No Drawing. Application June 9, 1939, Serial No. 278,324
4 Claims. (Cl. 260—15)

1. A plastic composition comprising a cellulose acetate base combined with a urea formaldehyde resin, said resin being in proportion between 5 and 40% by weight of cellulose acetate.

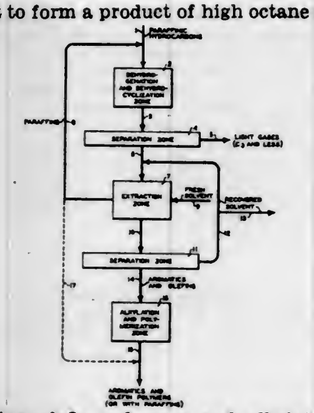
2,287,931

TREATMENT OF HYDROCARBONS

Ben B. Corson and George S. Monroe, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application October 7, 1939, Serial No. 298,390
4 Claims. (Cl. 196—52)

4. A process for increasing the anti-knock value and boiling range of a paraffinic hydrocarbon fraction containing hydrocarbons of less than 6 and hydrocarbons of at least 6 carbon atoms in straight chain arrangement, which comprises contacting said fraction with a dehydrogenation and dehydrocyclization catalyst to produce a mixture containing paraffins, olefins and aromatics by reactions involving substantial dehydrogenation to olefins of paraffins containing less than 6 carbon atoms in straight chain arrangement and dehydrocyclization to aromatics of paraffins containing at least 6 carbon atoms in straight chain arrangement, separating said mixture into a liquid phase and a gaseous phase and extracting the former by a selective solvent to separate olefins and aromatics from a paraffinic raffinate, recycling at least a portion of said raffinate to further dehydrogenation and dehydrocyclization, and subjecting said olefins and aromatics to polymerization and alkylation treatment in the absence of said gaseous phase and in the presence of a polymerizing and alkylating catalyst to form a product of high octane number



containing olefin polymers and alkylated aromatics.

2,287,932

PRODUCTION OF EFFECTS ON ARTIFICIAL MATERIALS

Henry Ewing, Spondon, near Derby, England, assignor to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application September 13, 1939, Serial No. 294,671. In Great Britain October 7, 1938
5 Claims. (Cl. 8—114.5)

1. Process for the production of crepe fabrics, which comprises treating a fabric, both the warp and weft of which are composed of the same hydrophobe film-forming polymer, the warp yarns having a low twist and the weft yarns having a high twist but below the twist normally given to the yarns employed in the production of said crepe fabrics, with aqueous formaldehyde of a concentration between 0.5 and 2% so as to cause said warp yarns to stiffen, and subjecting the so-treated fabric to a crepe-scouring bath.

2,287,933

TANGENT BENDER

Lee B. Green, Lakewood, Ohio, assignor to Cyril J. Bath, Chagrin Falls, Ohio

Application June 22, 1940, Serial No. 341,945
16 Claims. (Cl. 153—48)



1. In a machine of the character described, a pair of die members relatively movable toward and from each other and one of which has an angular projection adapted to overlie a side portion of the other when the die members are closed, said other die member having a curved portion projecting beyond said one die member, and a third die member having a substantially flat face adapted to extend substantially tangentially to said curved portion when the first-mentioned die members are closed and an angular projection also adapted to overlie a side portion of said other die member, means for actuating said third die member so as to cause the point of tangency to travel around said curved portion including a rack on said third die member having its pitch line lying substantially in the plane of said flat face and a gear sector fixed with respect to said one die member and with which said rack meshes, and a spring-pressed roller acting on the third die member to hold said rack and sector in mesh and to press said third die member against said curved portion during travel of the point of tangency therearound.

2,287,934

MANUFACTURE OF FLUORO-HYDROCARBONS

Aristid V. Grosse and Carl B. Linn, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application October 31, 1938, Serial No. 238,051
7 Claims. (Cl. 260—653)

1. A process for the manufacture of di-fluoroparaffins which comprises interacting a member of the acetylene series of higher molecular weight than acetylene with a molal excess of substantially anhydrous liquid hydrogen fluoride at a temperature below the boiling point of hydrogen fluoride.

2,287,935

TREATMENT OF HYDROCARBONS

Aristid V. Grosse and William J. Mattox, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application October 9, 1939, Serial No. 298,704
8 Claims. (Cl. 260—668)

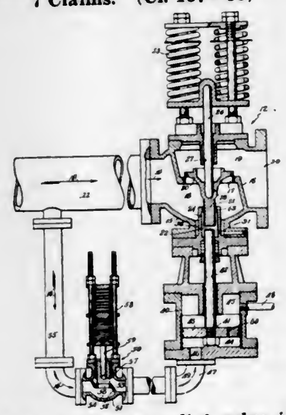
1. A process for producing a substantially olefin-free aromatic product from aliphatic hydrocarbons which comprises subjecting the aliphatics to dehydrocyclization, thereby forming a reaction mixture containing aromatics and olefins, contacting said mixture with a hydrogen-transferring catalyst under conditions adequate to convert the olefins to aromatic and paraffinic hydrocarbons, separating the paraffins from the aromatics and supplying the same to the dehydrocyclization step, and recovering the separated aromatic hydrocarbons.

2,287,936

RELIEF VALVE

Alexander V. Hose, Marblehead, Mass., assignor to Atwood & Morrill Co., Salem, Mass., a corporation of Massachusetts

Application July 31, 1940, Serial No. 348,728
7 Claims. (Cl. 137—53)



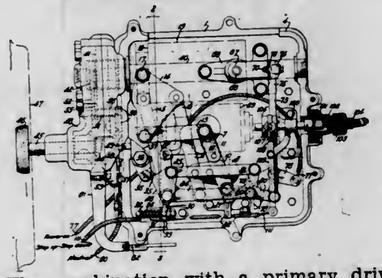
1. In a steam line, a relief valve installation comprising a relief valve which is opened when the steam pressure exceeds a predetermined limit, a second relief valve which is opened when the steam pressure exceeds a limit higher than that assigned to the first relief valve, and a steam cylinder including a piston actuated solely by the steam permitted to flow when the second relief valve is opened for further opening the first relief valve.

2,287,937

GEAR SHIFTING APPARATUS

Winthrop A. Johns, New Brunswick, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York

Application May 19, 1939, Serial No. 274,634
18 Claims. (Cl. 74—336.5)



1. The combination with a primary driving element, a driving shaft, a clutch for connecting said driving shaft to said driving element, and a driven shaft, of transmission mechanism for coupling said driven shaft to said driving shaft; said transmission mechanism including a plurality of coupling means alternatively operable to provide different speed ratios of said shafts, a pair of slide rails each movable axially in opposite directions from a neutral position to render operable certain of said coupling means, a control member movable to a plurality of predetermined positions, to select and to move in the desired direction one or the other of said slide rails, thereby to render operable a particular one of said coupling means, power means for moving said control member to each of said predetermined positions, latch means normally rendering said power means inoperative to effect movement of said control member, a governor responsive to the speed of said driven shaft for determining the position to which said control member will next be moved by said power means, and unlatching means including a release member operable upon an uncoupling movement of said clutch for releasing said latch means, and a second release member operable by said governor, said release members being connected mechanically in parallel to said latch means, whereby both of said release members must be actuated to render said power means operable to move said control member into a new position as determined by said governor.

2,287,938

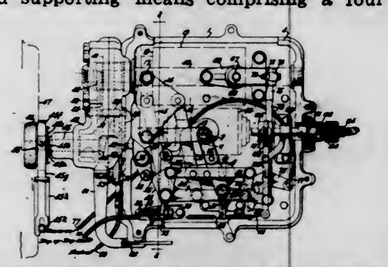
GEAR SHIFTING APPARATUS

Winthrop A. Johns, New Brunswick, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York

Application August 1, 1939, Serial No. 287,794
11 Claims. (Cl. 74—336.5)

1. A gear shifting apparatus for use with a change speed gear of the type including a pair of slide rails operable in opposite directions from neutral positions to control the speed ratio be-

tween a driving and a driven shaft, said apparatus comprising a shift link extending transversely of said rails, coupling means projecting from the shift link for engagement with one or the other of said slide rails, means supporting said shift link, for axial movement to engage said coupling means with one or the other of said slide rails, said supporting means comprising a four bar



parallel motion linkage having a single fixed pivot point, one end of said shift link being pivotally connected to a bar of said linkage at a point remote from said fixed pivot point, and means coupled to the other end of said shift link for moving said shift link angularly, thereby to move the slide rail that is engaged by said coupling means.

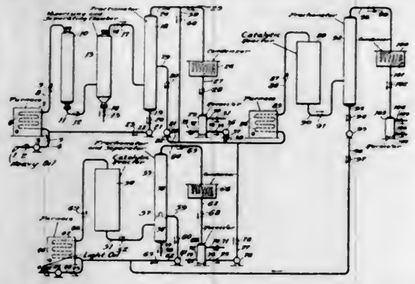
2,287,939
RESPIRATOR
Herman T. Kraft, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application September 21, 1939, Serial No. 295,950
4 Claims. (Cl. 128—30)



1. A rubber edge sealing strip for respirators comprising a thin walled flexible rubber tube, a rubber holding strip longitudinally slotted and formed with divergent flanges, said tube being disposed against the flanges in parallelism with the strip and bonded thereto, and a flexible rubber flap secured to a longitudinal portion of the tube and spaced from both flanges, the surface of the tube intervening between one of the flanges and said tube portion being of greater circumferential extent than the tube surface between the other flange and said tube portion.

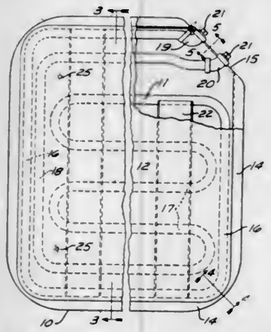
2,287,940
HYDROCARBON CONVERSION
Edwin H. McGrew, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application August 21, 1939, Serial No. 291,193
2 Claims. (Cl. 196—52)

1. A hydrocarbon oil conversion process which comprises thermally cracking a heavy hydrocarbon oil, catalytically cracking a lighter hydrocarbon oil, separating a light reflux condensate heavier than gasoline from the vapors produced by the thermal cracking of said heavy oil, commingling said light reflux condensate and gasoline products of both said cracking treatments, subjecting the resultant mixture to the action of a cracking catalyst at a temperature in the approximate range of 600 to 900° F. for a contact time adequate to effect a substantial transfer of



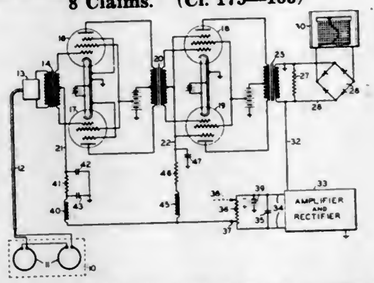
hydrogen from said reflux condensate to gasoline boiling olefins present in said mixture, whereby to produce a more saturated gasoline, and recovering the more saturated gasoline thus produced.

2,287,941
REFRIGERATION APPARATUS
Orton S. McGuffey, Lansing, Mich., assignor to Kold-Hold Manufacturing Company, Lansing, Mich., a corporation of Michigan
Application May 31, 1940, Serial No. 338,178
4 Claims. (Cl. 62—95)



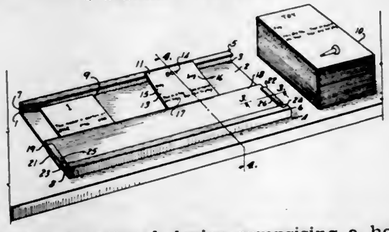
1. A hold over refrigeration unit including, in combination, a sealed sheet metal tank having closely spaced opposed side walls of relatively large area, the interior of said tank being free from abrupt corners and being substantially filled with a liquid hold over solution, and means for freezing said hold over solution progressively from the perimeter of the tank toward the center thereof comprising an elongated evaporator tube disposed within the tank in spaced relation to said side walls and having inlet and outlet ends communicating with the exterior of the tank, said evaporator tube including a first portion extending substantially around the perimeter of the tank in closely spaced relation thereto and other portions distributed substantially uniformly throughout the remainder of the tank, the first portion being arranged to receive refrigerant before said other portions and the maximum distance between the said first portion of the tube and the adjacent walls of the tank being substantially less than the maximum distance between any other portion of the tube and the walls of the tank adjacent thereto.

2,287,942
ELECTRONIC AMPLIFIER
Dale H. Nelson, Water Mill, and William D. Buckingham, Southampton, N. Y., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application December 7, 1938, Serial No. 244,330
8 Claims. (Cl. 175—183)



1. In combination, means for generating low frequency signals of the order of one or two cycles a second, an amplifier having its input circuit connected to said first-named means and means connected to the output circuit of said amplifier for varying the gain of the amplifier in proportion to a root of the input voltage whereby the voltage variations in the output circuit vary exponentially but to a smaller extent than the corresponding input voltages for signals of different amplitudes, said means for varying the gain of the amplifier including means whereby the output response of the amplifier to each individual signal impulse is controlled in accordance with the magnitude thereof.

2,287,943
EDUCATIONAL DEVICE
Maurice J. O'Sullivan, Kansas City, Mo.
Application February 2, 1940, Serial No. 316,963
2 Claims. (Cl. 35—35)



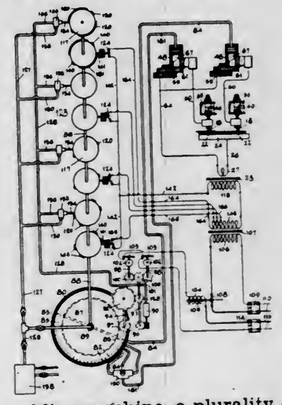
1. An educational device comprising a holder having a flat base portion provided with opposed longitudinal edge portions turned upwardly and inwardly to provide a pair of inwardly facing opposed retaining channels adapted to receive the opposite ends of one or more interchangeable display members, a display member comprising a substantially flat rectangular sheet of resilient material of a length slightly greater than the distance between the extreme opposed edges of the channel, said member being adapted to have one transverse edge portion received within one of said channels and the other edge portion selectively received within the other channel or resting upon the edge thereof, a mask member substantially equal in length to the lenth of the base portion and of a width approximately equal to one-half the width of the latter, said mask member being adapted to have one longitudinal edge thereof received in said first mentioned channel and to overlie a portion of the display member and conceal the same, a pair of upwardly and inwardly turned ears carried at the transverse edges of the base portion adapted to overlie the transverse edges of the mask member to removably retain the same in position in the holder, and spacing strips secured to the underneath side of the mask member at the opposite side edges thereof and adapted to rest on the base portion of the latter to maintain the mask member slightly elevated from the base portion.

2,287,944
DEVICE FOR USE IN HANDLING LOOSE BULK MATERIAL
Elmer E. Peterman, Jamestown, N. Y.
Application May 3, 1940, Serial No. 333,165
5 Claims. (Cl. 214—10)



1. A device facilitating use of a conveyor loader in the handling of loose bulk material comprising a plurality of units, each of said units having spacedly joined upstanding sides, that define a full length top opening, a removable cover mounted on said sides to close said opening and cooperating therewith to provide an open-ended passageway and means for aligning said units to provide a tunnel into which the conveyor of said loader may be projected.

2,287,945
WELDING MACHINE
Hugo Purat, Detroit, Mich., assignor to Progressive Welder Company, Detroit, Mich., a corporation of Michigan
Application March 6, 1940, Serial No. 322,567
8 Claims. (Cl. 219—4)



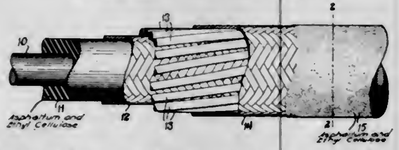
1. In a welding machine, a plurality of welders having welding electrodes for engaging the work; a source of welding current; a plurality of fluid operated switches for connecting the electrodes to the source of welding current; a source of supply of fluid pressure; means for connecting the switches to the source of fluid pressure in succession; a fluid pressure motor connectable to the source for operating the said means; a valve for controlling the speed of the motor; and an element connected to the said means for periodically operating the valve to vary the speed of

movement of the element and the length of period in which certain of the electrodes is connected to the source of current.

2,287,946
ANTISKINNING AND WEATHER RESISTING AGENT FOR DRYING OIL COMPOSITIONS
Harold C. Reynolds, Jr., Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application October 22, 1938, Serial No. 236,579
7 Claims. (Cl. 106—222)

1. A coating composition containing a drying oil, a positive oxidation catalyst and, as a negative oxidation catalyst, a hydrocarbon substituted carbamonitrile in sufficient quantity to substantially prevent oxidation of the composition in the packaged state without materially retarding the normal drying rate of the composition when exposed in a thin film state to the normal atmosphere.

2,287,947
WEATHERPROOF INSULATED ELECTRIC WIRE
Richard W. Shoemaker, Woodbury, Conn., assignor to Chase Brass & Copper Co. Incorporated, Waterbury, Conn., a corporation
Application July 24, 1940, Serial No. 347,178
2 Claims. (Cl. 174—107)



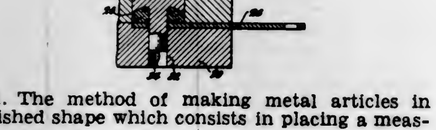
2. An outdoor weatherproof insulated electric wire for use in exposed locations where the wire is subjected to weather and including in combination: a metallic wire; a seamless inner insulating coating extruded into surrounding relation with the said metallic wire and having a major portion of said extruded coating of ethyl cellulose and a minor portion of asphaltum; an inner covering of textile material surrounding the said extruded coating; a plurality of conducting strands surrounding the said inner covering; an outer covering of textile material surrounding the said plurality of conducting strands; and an outer weatherproofing coating containing a major portion of asphaltum and a minor portion of ethyl cellulose and surrounding the said outer covering of textile material.

2,287,948
INDIUM PLATING
Clarence F. Smart, Pontiac, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
No Drawing. Application December 16, 1938, Serial No. 246,064
1 Claim. (Cl. 204—45)

A process for the electro-deposition of adherent deposits of indium comprising, passing an electric current through an electrolyte from an inert anode to a cathode under a voltage of from about three to ten volts and with a current density of about 10 to 150 amperes per square foot of cathode area; the electrolyte being free of at least substantially all cyanide and consisting of an aqueous solution of the following essential constituents in approximately the amounts given per gallon of water: a compound of indium in which the indium content is about one to six ounces, dextrose approximately half the indium content and at least one ounce, and sodium hydroxide from about six to twelve ounces; said electrolyte being maintained during operation at a temperature of about 70° F. to 175° F.

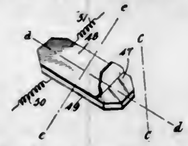
2,287,949
VITAMIN E SUBSTITUTE AND PROCESS OF MAKING IT
Lee Irvin Smith and Herbert E. Ungnade, Minneapolis, Minn., assignors to Regents of the University of Minnesota, Minneapolis, Minn., a corporation of Minnesota
No Drawing. Application July 14, 1939, Serial No. 284,460
5 Claims. (Cl. 260—479)

4. A compound having the structure



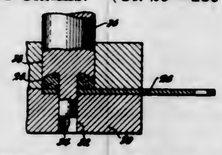
where R is selected from the group consisting of hydrogen and a monobasic carboxylic aliphatic acyl radical.

2,287,950
PIEZOELECTRIC DEVICE
Raymond W. Tibbetts, Camden, Maine
Application September 23, 1938, Serial No. 231,398
15 Claims. (Cl. 171—327)



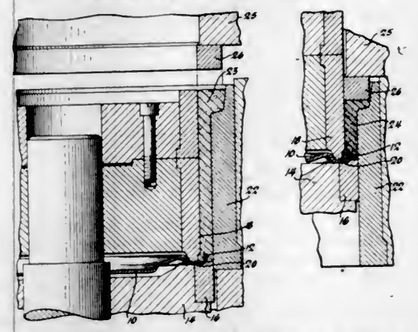
1. A method of making piezo-electric devices comprising bodies formed of homogeneous water soluble crystalline material of high specific inductive capacity and having electrodes on one or more surfaces thereof, said method comprising applying directly to the body surface to be electroded a thin coating of water or other solvent of the body material or a solution of the same material in a suitable solvent and applying under slight pressure a very thin metallic foil, such as gold leaf, having the property of forming with the recrystallized surface of the body material a molecular and intimate bond.

2,287,951
METAL ARTICLE AND METHOD OF MAKING SAME
Herman Tormyn, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 17, 1939, Serial No. 274,292
11 Claims. (Cl. 29—189)



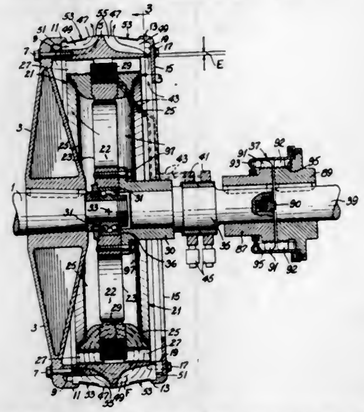
1. The method of making metal articles in finished shape which consists in placing a measured quantity of metal fragments in a mold, forming them under heavy pressure into a substantially solid piece approximating the desired shape but somewhat larger in size, heating the piece in a non-oxidizing atmosphere to sintering temperature and pressing it while hot into finished form in a suitable die.

2,287,952
BRAKE DRUM AND METHOD OF MAKING SAME
Herman Tormyn, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 28, 1939, Serial No. 292,193
10 Claims. (Cl. 29—152.2)



1. A method of making a metallic brake drum having an upwardly extending braking ring adjacent the outer periphery of the drum which comprises, pressing ferrous metal powder under high pressure into annular form to provide at least the upwardly extending braking ring portion of the brake drum, and sintering said upwardly extending braking ring portion of pressed ferrous metal powder.

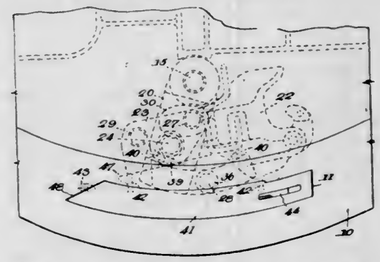
2,287,953
ELECTRICAL APPARATUS
Martin P. Winther, Waukegan, Ill., assignor to Martin P. Winther, as trustee
Application May 4, 1940, Serial No. 333,313
17 Claims. (Cl. 172—284)



1. Eddy-current apparatus comprising a rotary hollow drum having a continuous peripheral portion for flux passage and eddy-currents, ribs on the other side of the drum forming intermediate passages of a depth extending close to the limits of the eddy-current region, said ribs carrying substantially all of the flux passing through the continuous portion, covering means around the ribs to direct air axially through said passages, said passages having inlet openings edgewise of the drum and radially directed outlets.

10. Eddy-current apparatus comprising a double truncated inductor drum, said drum being hollow and having an inside eddy-current surface, heat radiating ribs on the outside of the drum providing spaces having mid-outlets and edgewise inlets, covering means forcing air flow adjacent to the ribs from the inlets to the outlets, and spaced guide means at the edges of the drum adapted to bring air toward the ribs from a radial direction.

2,287,954
LOCOMOTIVE PILOT COUPLER STRUCTURE
Harry H. Wolfe, Columbus, Ohio, assignor to The Buckeye Steel Castings Company, Columbus, Ohio, a corporation of Ohio
Application March 15, 1940, Serial No. 324,171
17 Claims. (Cl. 213—4)



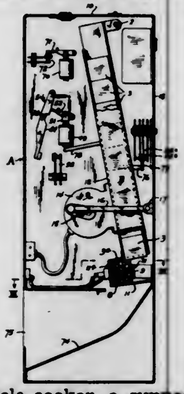
1. In a pilot type coupler construction of the kind in which the coupler is housed in a pocket when in retracted position, the improvement which comprises a sectional coupler shank, the sections of the shank being pivotally connected together for horizontal movement with respect to each other, and one section being pivotally mounted in the pocket, and means for detachably and substantially rigidly securing said sections together and in substantial alignment with one another when in operative position.

2,287,955
DEVICE FOR MOVEMENT OF AIRCRAFT
Joseph Zunino, San Francisco, Calif.
Application March 31, 1941, Serial No. 386,049
8 Claims. (Cl. 214—65.5)



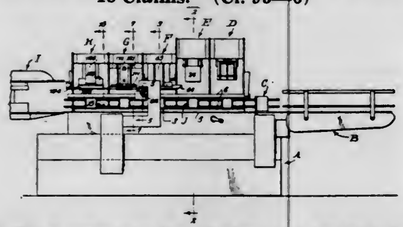
1. A device for movement of aircraft by engagement with a steerable wheel in the landing gear, comprising a pair of stiff but yieldable members spaced apart at one end and converging at the other to define a frame, a pair of opposed aircraft wheel engaging members on the spaced apart ends of the frame members, and means for flexing said yieldable frame members to draw together the spaced apart ends thereof and thus to move the said wheel engaging members from inoperative to operative position.

2,287,956
SAUSAGE COOKER
Albert E. Aff, Rockaway Beach, Calif.
Application January 2, 1941, Serial No. 372,769
3 Claims. (Cl. 219—19)



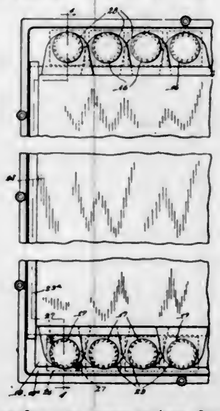
1. In an article cooker, a support, a substantially vertically disposed container adapted to receive a plurality of articles in stack formation, a pivoted connection between the upper end of the container and the support, a U-shaped bracket on the lower end of the container forming a support for the articles in the container, a pair of spaced electric terminals on said bracket, an article extractor adjacent the U-shaped bracket, means for imparting movement to the container about its pivoted support to move the lower end of the container to and away from the extractor, a backstop on the extractor causing the electric terminals to enter the lowermost article in the stack when the container is moved toward the extractor, means for closing an electric circuit through the terminals and the article to heat the article, means for breaking said circuit when the article reaches a predetermined temperature, and means actuated by movement of the container away from the extractor for releasing the heated article for discharge.

2,287,957
BAG CLOSING AND SEALING APPARATUS
Howard G. Allen, Niagara Falls, and Karl Clifford Saunders, Kenmore, N. Y., assignors to Consolidated Packaging Machinery Corporation, a corporation of New York
Application August 4, 1940, Serial No. 351,374
18 Claims. (Cl. 93—6)



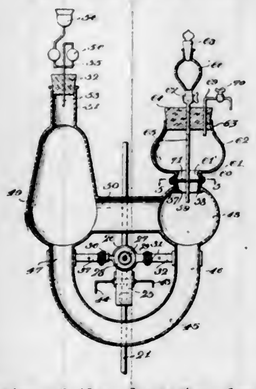
1. In a machine for closing and sealing slack filled paper bags having collapsed upstanding mouths, means for forming spaced upper and lower crease lines below the end of said bag mouth, and means including an arcuately cross-sectioned folding blade having an edge engageable with the end portion of said bag mouth and projectable forwardly and downwardly over said upper crease line for folding the end of said bag mouth along the said upper crease line.

2,287,958
HEAT EXCHANGE APPARATUS
William Astle, Chicago, Ill.
Original application August 27, 1937, Serial No. 161,265. Divided and this application August 26, 1940, Serial No. 354,276
7 Claims. (Cl. 257—245)



2. A heat exchange apparatus for controlling the exchange of heat from one flowing fluid film to another comprising a plurality of thin flat juxtaposed cells, each providing a thin fluid film flow space, a casing in which said cells are placed, means for circulating a fluid within said casing and over the outer surfaces of said cells, and tubes extending through the wall of the casing and communicating with the interiors of said cells, respectively, to provide a circulation of fluid within the cells, said tubes being movable longitudinally through openings in the wall of the casing whereby the cells may be separated for cleaning without disconnecting the tubes, said tubes extending transversely with respect to the planes of the cells, the connections of the tubes with the cells being offset with respect to each other laterally of the cells to prevent interference between the respective tubes and connections.

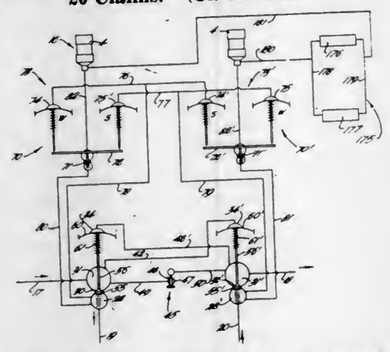
2,287,959
CHEMICAL GAS GENERATOR
Charles C. Bailey, Beverly Hills, Calif.
Application September 20, 1940, Serial No. 357,650
3 Claims. (Cl. 23—282)



1. A device of the character described comprising a stand, a support device pivoted on a

horizontal axis thereon, means to secure the support at adjusted positions on its axis, a generator on said support having a U-shaped tube in a vertical plane transverse to said axis, a cross conduit connection between its upper arm portions, a generator chamber mounted over one arm in communication therewith, and a displacement chamber mounted over the other arm in communication therewith, and normally extending above liquid level in the generator chamber, and an automatic vent device at the top of the second named chamber.

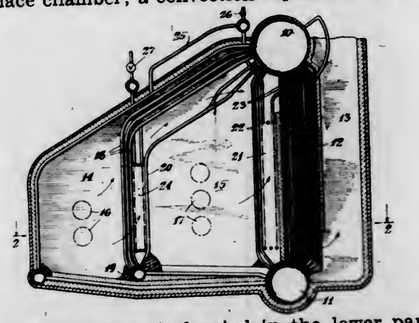
2,287,960
HYDRAULIC STEERING AND CONTROL APPLIANCE
Charles U. Ballard, Inglewood, Calif.
Application October 9, 1939, Serial No. 298,686
20 Claims. (Cl. 60—54.5)



1. In a hydraulic pulsator system, means forming two hydraulic sides with liquid flow connections combined with a supply and drainage means for liquid to both sides of the system, each having a normally closed valve therein, pressure actuated means for each valve, one actuated by a relatively weak and the other by a relatively strong hydraulic reaction, hydraulic flow connections between both sides of the system to the pressure actuated means of said valves whereby both the relatively high pressure and relatively low pressure of the pulsator system operate the valve having a connection only to the low pressure side of the pulsator system for a flow of liquid to or from such low pressure side of the pulsator system, the two sides of the pulsator system each having a positive lock valve therein, the valve on the high pressure side being operative to open for flow of liquid therein, a hydraulic operative device for each of the lock valves with liquid pressure connections between both sides of the system, each hydraulic operative device having means to open its associated lock valve, the high pressure connection from the high pressure side operating the pressure device on the lock valve of the low pressure side to positively open such valve for reverse flow of liquid in the low pressure side.

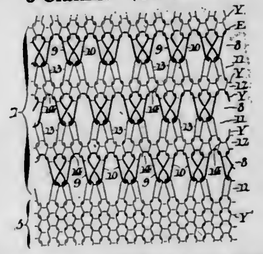
2,287,961
SEPARATELY FIRED SUPERHEATER ARRANGEMENT
John A. Barnes, Chappaqua, N. Y., assignor to The Superheater Company, New York, N. Y.
Application November 1, 1939, Serial No. 302,326
1 Claim. (Cl. 122—473)

In a boiler having upper and lower drums interconnected by a bank of generating tubes, means defining a furnace space at one side of said bank, other generating tubes having substantially vertical portions arranged in a row extending transversely of said space for dividing it into a boiler furnace chamber and an auxiliary furnace chamber, individual fuel feeding means for said chambers, and a superheater positioned to be heated by fuel burned in said auxiliary furnace chamber; a convection superheater hav-



ing tubular elements located in the lower part of said bank and spaced from said upper drum; and baffle means on said tubes extending upwardly from the bottom of said furnace space to a point above said superheater and adjacent said drum for precluding the flow of gases from said auxiliary furnace chamber over said convection superheater and directing gases from said auxiliary furnace chamber into the part of said generating bank above said convection superheater.

2,287,962
STOCKING
Edwin Brand Beacham, Easton, Pa.
Application April 24, 1940, Serial No. 331,284
3 Claims. (Cl. 66—172)

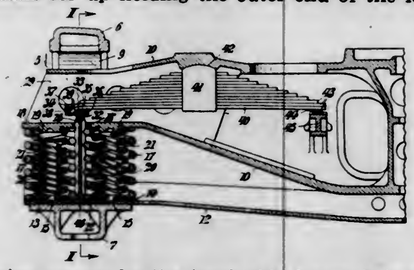


1. A stocking comprising a leg portion; a garter-attaching portion at the top; and a strain-absorbing zone between said leg and said garter-attaching portion, in which zone plain loop courses of inelastic yarn alternate with courses of elastic yarn having enlarged loops in spaced wales transferred laterally all in the same direction and doubled in each instance with the loop in the next adjacent wale.

2,287,963
SPRING SUPPORT FOR RAILWAY TRUCKS
Charles D. Barrett and Charles R. Whitehead, Altoona, Pa.
Application September 27, 1941, Serial No. 412,550
8 Claims. (Cl. 105—197.1)

1. In a truck comprising a side frame having a bolster window; a hollow bolster with an end in said window; coil spring means in said window yieldingly supporting the bolster end for up-and-

down movement; and leaf spring means mounted in the bolster and extending lengthwise thereof with bearing upward intermediate its ends on an upper bearing in said bolster, while its outer end is free in the hollow bolster end for yieldingly sustaining the bolster in parallel with the coil spring means aforesaid; the combination of plate means for up-holding the outer end of the leaf



spring means, by the truck side frame, between groups of the coil spring means but independently of the latter, and such plate means also coacting with the outer end of the leaf spring means, whereby said plate means can tilt in a direction paralleling the bolster but is restrained against inclination in a plane at right angles thereto.

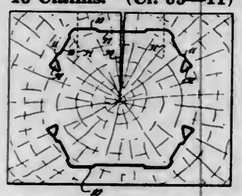
2,287,964

ANTISPLITTING DEVICE

Raymond E. Beegle, East St. Louis, Ill.

Application October 4, 1941, Serial No. 413,686

18 Claims. (Cl. 85—11)



1. An anti-splitting device of the character described, comprising a strip member formed to provide a body and relatively divergent arms thereon, and an angulate, substantially closed terminal element on at least one of said arms, said terminal including at least two angularly related rectilinear portions.

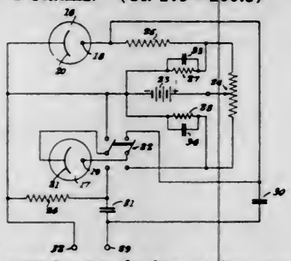
2,287,965

METHOD AND APPARATUS FOR THE OPERATION OF PHOTOELECTRIC CELLS

Willy Borberg, Astoria, Long Island, N. Y., assignor to International Projector Corporation, New York, N. Y., a corporation of Delaware

Application March 16, 1940, Serial No. 324,272

4 Claims. (Cl. 179—100.3)



1. In a sound reproducing system for stereophonic recordings, a photoelectric cell circuit comprising a plurality of photoelectric cells, a source of polarizing potential connected to said cells, the cathodes of said cells being connected together and to a common output terminal, the anodes of the said cells being connected to separate output terminals said anodes being connected through separate amplifiers to separate speakers.

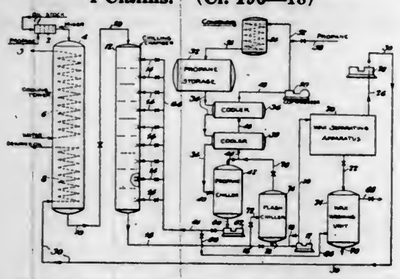
2,287,966

PROCESS FOR DEWAXING MINERAL OILS

David G. Brandt, Westfield, N. J., assignor to Cities Service Oil Company, New York, N. Y., a corporation of Pennsylvania

Application May 11, 1938, Serial No. 207,232

4 Claims. (Cl. 196—18)



1. In the process of dewaxing petroleum lubricating oil stocks in which the oil stock to be dewaxed is diluted with liquid propane in sufficient quantity to completely dissolve the oil stock and provide a solution which will be fluid and readily handled at temperatures below the pour point of the oil stock, the improvement which comprises cooling the solution by indirect heat exchange with a cooler low gravity liquid to a temperature just short of that of wax precipitation in the solution, thereafter passing the oil mixture to be dewaxed through a series of relatively large zones in which the mixture is gradually chilled to progressively lower temperatures by mixing therewith precooled liquid propane under conditions adapted to prevent vaporization of any of the propane, introducing the cooled propane into the oil mixture in each zone in a jetting action adapted to cause only mild eddying currents in each of said zones to effect equilibrium between the oil mixture and the introduced cold propane, maintaining a superatmospheric pressure in each zone and preventing substantial agitation therein, introducing a sufficient proportion of cold liquid propane into said zones to completely precipitate the wax content of the oil desired to be removed therefrom by the time the oil has passed through said series of zones, and separating the precipitated wax from the resulting chilled oil mixture to produce a dewaxed petroleum lubricating oil stock.

2,287,967

WRINGER

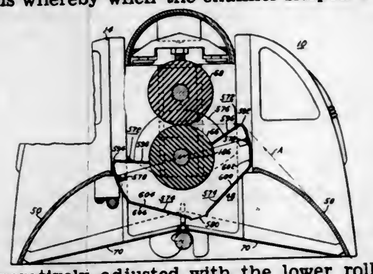
Frank Breckenridge, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application May 23, 1939, Serial No. 275,163

10 Claims. (Cl. 68—249)

1. In a reversible wringer having a frame and a plurality of rolls one above the other, an elongated inwardly flanged unitary channel shaped device mounted about the lower roll only and movable with respect to the frame and lower roll

embodying a portion on each side of the wringer, each of which at one time serves as a guard, clothes feeder and water deflector, and at another time as a collector for the clothes, and means whereby when the channel shaped device



is operatively adjusted with the lower roll, the portion which is to serve as a guard, clothes feed and water deflector is elevated and the portion which is to serve as a clothes collector is lowered, at least a part of the guard and feed portion extending in front of the rolls.

2,287,968

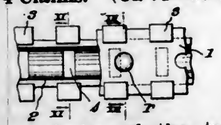
MEANS TO REMOTELY CONTROL DEVICES

Georges Broulhiet, Paris, France

Application March 29, 1940, Serial No. 326,814

In Luxemburg March 27, 1939

4 Claims. (Cl. 74—501)



1. A control device of the type described, which comprises in combination, a thin flexible guiding element having flat guiding surfaces, a flat thin flexible transmission strip slidable in said guiding element, and means on said guiding element for holding said transmission element against said flat guiding surfaces of said guiding element, said guiding element being bowed transversely between said guiding surfaces and having a greater resistance to bending along lines running transversely across the guiding surfaces of said guiding element than said transmission strip.

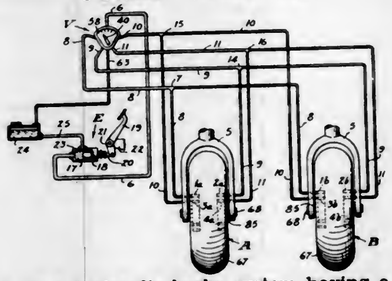
2,287,969

BRAKE SYSTEM

Ray W. Brown, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application September 23, 1940, Serial No. 357,834

8 Claims. (Cl. 188—152)



1. In a hydraulic brake system having a plurality of fluid actuable brakes operatively associated with one wheel, means for energizing the fluid in the system, conduits effecting a fluid connection between the brakes and said means, and valve means interposed in said connection and manually operable to readily interrupt the fluid connection at will between the energizing means and one of the brakes and to radially reestablish such connection at will.

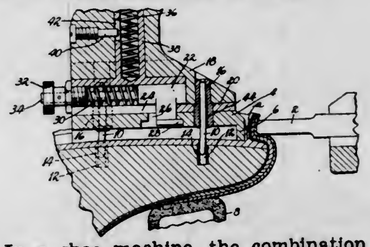
2,287,970

WORK-POSITIONING MEANS FOR SHOE MACHINES

Philip E. Burby, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application August 12, 1941, Serial No. 406,528

6 Claims. (Cl. 12—14)



1. In a shoe machine, the combination with means for operating on shoe materials on a last, of a plurality of pins arranged to extend into holes in the bottom of the last to position the last relatively to said operating means, the last-engaging portions of said pins being deflectable laterally to permit them to adjust themselves to variations in the positions of the holes due to expansion or contraction of the last.

2,287,971

ICE TRAY

Clifford R. Carney, Dearborn, Mich.

Application November 9, 1940, Serial No. 364,979

8 Claims. (Cl. 62—108.5)



1. An ice tray grid comprising a plurality of substantially vertically disposed transversely extending separator members, a longitudinal separator member mounted on the transverse separator members and movable from a substantially vertical normal ice forming position to an angularly inclined ice releasing position, and means comprising oppositely movable longitudinally extending bars associated with the longitudinal member whereby longitudinal movement of the bars in opposite directions moves the longitudinal separator member angularly from said normal substantially vertical position to release ice.

2,287,972

ICE TRAY

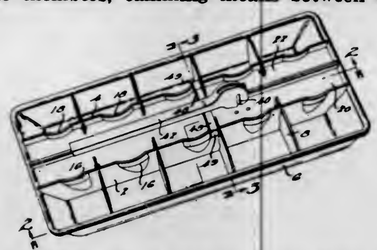
Clifford R. Carney, Dearborn, Mich.

Application November 12, 1940, Serial No. 365,140

13 Claims. (Cl. 62—108.5)

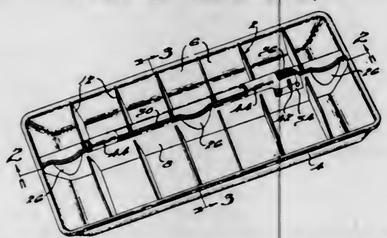
1. An ice tray grid comprising a plurality of spaced longitudinal separator members having

substantially vertically disposed slots, a plurality of transverse separator members mounted in said slots, a pair of longitudinally extending actuating bars interposed between the longitudinal separator members, camming means between said



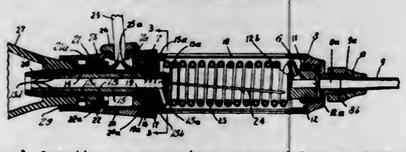
bars and longitudinal separator members, and motion transmitting means associated with said actuating bars to move the bars in opposite directions to actuate the camming means and move the longitudinal separator members angularly to release ice.

2,287,973
ICE TRAY
Clifford R. Carney, Dearborn, Mich.
Application December 7, 1940, Serial No. 369,037
12 Claims. (Cl. 62—108.5)



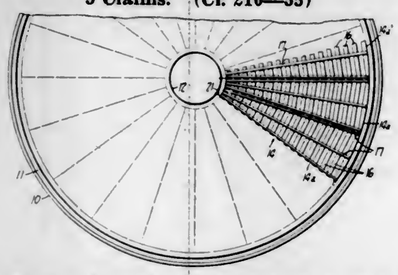
1. An ice tray grid comprising a longitudinal separator member movable angularly about a horizontal axis and having a plurality of spaced substantially vertically extending slots, a plurality of transversely extending separator members mounted on the longitudinal member and projecting through said slots, a longitudinally movable bar associated with the longitudinal separator member and engaging the transverse separator members, and means to move said bar longitudinally relative to the longitudinal separator member to move each transverse separator member about vertical axes and to move the longitudinal separator about a horizontal axis to release ice.

2,287,974
HEATING APPARATUS
Nathan B. Cohen, Minneapolis, Minn.
Application June 16, 1939, Serial No. 279,456
4 Claims. (Cl. 219—39)



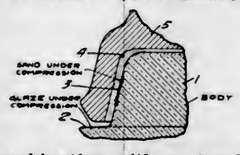
1. A heating apparatus comprising a tubular shell including spaced apart walls, a fluid conveying member fixed in each of said walls and insulated therefrom, one of said fluid conveying members being situated entirely within said tubular shell, an electrical resistance element constituted as a tubular entity within said shell and having a longitudinally extending passageway through which a fluid is adapted to be made to flow, the opposite end portions, respectively, of said electrical resistance tubular entity being secured to said fluid conveying members, respectively, in fluid conveying relation to said members, and means including at least one of said fluid conveying members for applying electrical current to said element.

2,287,975
LIQUID TREATMENT APPARATUS
Neil R. Collins, San Francisco, and Albin E. Esterberg, Menlo Park, Calif., assignors to Marine Magnesium Products Corporation, a corporation of Delaware
Application December 9, 1939, Serial No. 308,416
5 Claims. (Cl. 210—55)



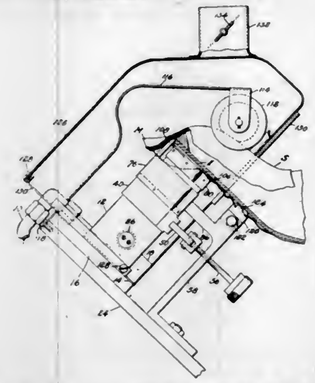
1. In liquid treatment apparatus, a tank for holding a body of liquid undergoing treatment, said tank being provided with means for introducing liquid material into the same and means for removing treated liquid from the tank, and a cover floating upon the surface of the liquid and serving as means to suppress wave action due to wind, said cover comprising a plurality of sections and means for loosely connecting said sections together for relative movement with respect to each other.

2,287,976
INSULATOR
Carl David Croskey and Davidge Harrison Rowland, Baltimore, Md., assignors to Locke Insulator Corporation, Baltimore, Md., a corporation of Maryland
Application June 27, 1940, Serial No. 342,798
4 Claims. (Cl. 174—209)



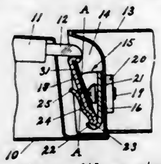
1. The combination with an insulator body of ceramic material having a coefficient of expansion in the nature of 5.8 to 6×10^{-6}, of ceramic glazing material therefor, said glazing material having a coefficient of expansion in the order of 5.3×10^{-6} per degree centigrade, a band of ceramic sand applied to the insulator body after the same has been coated with said ceramic glazing material, said sand having a coefficient of expansion less than 5.3×10^{-6} per degree centigrade, said body, glaze and sand being adapted to be vitrified simultaneously.

2,287,977
SHOE TREATING APPARATUS
Lee H. Cushman, South Hamilton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 6, 1941, Serial No. 382,048
17 Claims. (Cl. 12—1)



1. In a shoe-treating apparatus, a pair of members having steam chambers and emission ports arranged to direct steam to the marginal portion of the toe end of a partially lasted shoe positioned adjacent thereto, and means for adjusting said members relatively to one another in accordance with the width of the toe portion of the shoe to be treated.

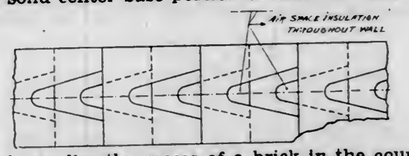
2,287,978
STRIKER PLATE
Edgard C. De Smet, Toledo, Ohio, assignor, by mesne assignments, to Reconstruction Finance Corporation, Cleveland, Ohio, a corporation of the United States
Application June 12, 1940, Serial No. 340,137
7 Claims. (Cl. 292—340)



1. The combination with a striker plate comprising a one piece yieldable retainer; a housing having a substantially flat base portion; means for securing the housing to a door pillar; said housing provided with a turned in lip to cooperate with said retainer to provide a hinged connection; means associated with said housing including a pair of ears to limit the outward swing of said retainer; and spring means for normally projecting the retainer.

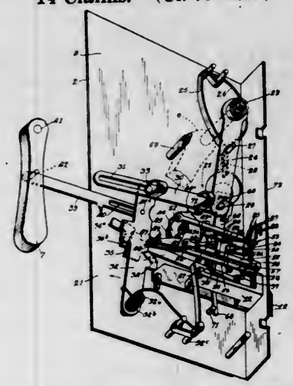
2,287,979
BUILDING BRICK OR BLOCK
Richard J. Dickhout, Detroit, Mich.
Application January 29, 1940, Serial No. 316,158
1 Claim. (Cl. 72—41)

In a structural wall made of rectangular bricks having three solid edges and one recessed edge whereby each brick is substantially "U" shaped and the projected plan area of the recess is substantially less than a moiety of the projected rectangular plan area, a number of courses, each course comprising a number of said bricks, adjoining bricks in each course being disposed so that adjacent bricks abut recessed edge to solid edge, each brick in each course being so disposed that the solid center base portion of said "U" shaped



brick overlies the recess of a brick in the course thereunder, said solid center base being spaced intermediate the extent of said last-named recess whereby continuous vertical interconnected air chambers are formed in said wall.

2,287,980
DOOR LOCKING MECHANISM
Alexander C. Findlay, Flint, Mich.
Application October 23, 1939, Serial No. 300,720
14 Claims. (Cl. 70—264)

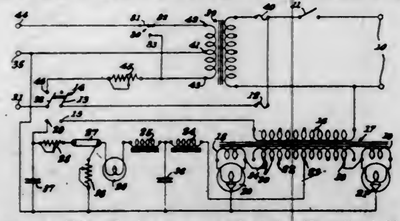


1. A system for locking a plurality of doors from a single station comprising, in combination, a latch bolt associated with each door, a handle for each door, means normally operatively connecting each handle with its associated bolt, means for disabling said last means and for disconnecting each handle from its associated bolt, a single controller, motion transmitting connections between said controller and said disabling means and operable by said controller, and means for disabling said motion transmitting connections and for preventing disconnection of all said handles from their associated bolts when one of said doors is not in a position to be latched by said bolts.

2,287,981
METHOD AND APPARATUS FOR SUPPLYING CURRENT TO EXCITER LAMPS
George Friedl, Jr., Fanwood, N. J., assignor to International Projector Corporation, New York, N. Y., a corporation of Delaware
Application March 16, 1940, Serial No. 324,317
19 Claims. (Cl. 179—100.3)

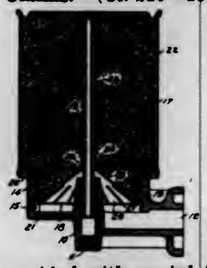
1. In combination, an alternating current power supply line, a plurality of light sources, a rectifier having its input connected to the power supply line, said rectifier being adapted to supply direct current for operating a light source, a transformer having its primary connected to said power supply line and having a first part of its secondary adapted to supply alternating cur-

rent for operating a first of said light sources, and having a second part of its secondary adapted to supply alternating current for heating a second of said light sources preliminary to operation, the second part of the secondary being connected to the second light source, the output



of the rectifier being connected to the first light source and means for substantially simultaneously disconnecting the input of the rectifier from the power supply line and connecting the first part of the secondary of the transformer to the first light source.

2,287,982
OIL FILTER
Conrad E. Frudden, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application May 22, 1940, Serial No. 336,487
8 Claims. (Cl. 210—131)

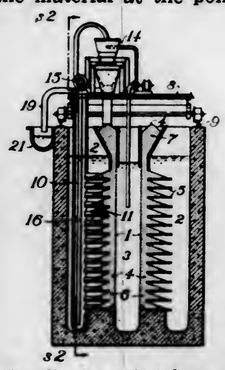


1. A filter provided with an inlet port and an outlet port and comprising a container having an opening at one end thereof, filtering material within said container, an internal peripheral flange adjacent said opening, and a retainer for said filtering material comprising a disk provided with a central opening communicating with one of said ports and an apertured, discontinuous, resilient peripheral portion which, in its normal unstressed condition, is larger in diameter than said flanged opening, whereby said retainer may be inserted into said container through said flanged opening.

2. A filter provided with an inlet and an outlet and comprising a casing having an opening provided with an internal flange, filtering material within said container, and a foraminated closure for said casing comprising a conical flexible disk having a normal diameter larger than said flanged opening, said disk being provided with a plurality of radial slots extending inward from the periphery thereof, whereby said disk is rendered sufficiently compressible to pass through said flanged opening.

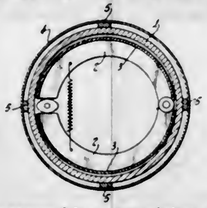
2,287,983
FILTER
Weston Gavett, Plainfield, N. J.
Application February 23, 1939, Serial No. 257,951
17 Claims. (Cl. 210—128)

1. The process of filtering liquids which consists first, in flowing the liquid horizontally through a body of granular filter media the entering surface of which is sloped to the angle of repose of the media to facilitate the discharge of the deposited solids, second, in removing the surface layer of the media to a predetermined depth with the solids deposited thereon, third, in collecting the material at the point of removal



and conducting it, separated from the surrounding body of unfiltered liquid, outside of the filter, and fourth, in adding clean filtering material to the outlet portion of the filter bed and advancing it toward the inlet portion to simultaneously replace the material removed and restore the sloping surface, while the filter is in service and without interrupting the filtering operation.

2,287,984
DAMPING DEVICE
James Robinson Glazebrook, New York, N. Y., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application May 22, 1940, Serial No. 336,496
6 Claims. (Cl. 188—218)



1. A brake assembly comprising a brake drum, metallic damping means therefor, and a plurality of members for insulating said damping means from said body, said damping means being supported on said drum by said members with a major portion of said damping means being spaced from said drum in position to be independently vibrated, and the remaining portion of said damping means being in contact with said members.

2,287,985
LACED BOOT
Sylvester R. Gookin, Quincy, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application June 13, 1940, Serial No. 340,233
2 Claims. (Cl. 24—145)

1. A boot upper comprising quarters having separable cooperative lacing margins and a series of incisions in each of them, a plurality of sheet metal strips each having a U-shaped loop portion extending through one of said incisions and engaging both ends thereof, and each having flat confronting end portions lying against opposite faces of the upper back of the corresponding in-

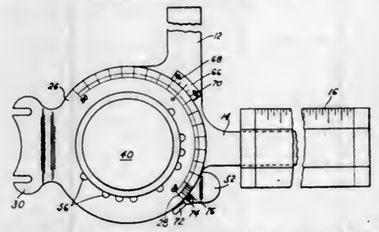


cision, the loop portion of each strip being formed and arranged to provide a lacing bridge on the outer face of the upper, and clenched fasteners each extending through both end portions of a strip and through the interposed portion of the upper.

2,287,986
RESINOUS COATING COMPOSITION
Daniel Mace Gowing, Upper Darby, and Philip Francis Sanders, Philadelphia, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 18, 1940, Serial No. 330,268
9 Claims. (Cl. 260—22)

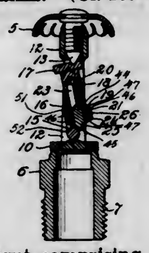
1. An enamel comprising an alkyd resin from the class consisting of fatty oil and fatty oil acid modified alkyd resins having an acid number greater than 10, at least two driers selected from the class consisting of cobalt, manganese, and lead soaps, and from .10 to 10% of material selected from the class consisting of diphenyl guanidine and triphenyl guanidine based on the resin content of the enamel.

2,287,987
DRAFTING APPARATUS
Walter J. Greenleaf, Meadville, Pa.
Application May 28, 1940, Serial No. 337,634
14 Claims. (Cl. 33—79)



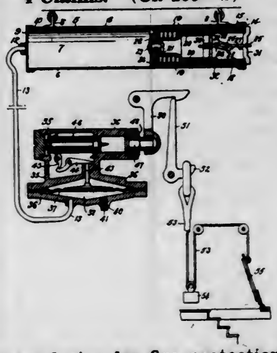
5. Drafting apparatus including a plate having integral angular arms, a protractor disk, a bolt pivotally connecting the plate and disk, a knob on the bolt for tightening the disk against the plate, means holding the bolt against rotation relative to the disk, means increasing the clamping diameter of the bolt and knob on the plate, a spring finger integral with the plate and in the plane of the plate, a tapered pin upstanding from the finger and adapted to engage in any one of a series of holes in the disk, and means for holding the pin out of engagement with holes.

2,287,988
FUSIBLE STRUT FOR AUTOMATIC SPRINKLERS
William B. Griffith, Audubon, N. J.
Application July 26, 1940, Serial No. 347,657
5 Claims. (Cl. 169—38)



5. A fusible strut comprising a rod having an axial bore, a shaft slidably mounted in said bore, an enlarged head upon the outer end of said shaft, a washer formed of fusible material, said washer having a peripheral portion positioned between said head and the end of the rod, protuberances positioned axially upon opposite faces of the washer, and said rod and said head having axial recesses formed therein adapted to be occupied by said protuberances.

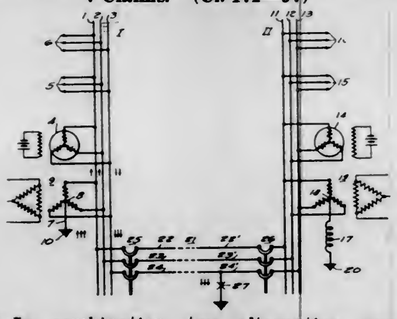
2,287,989
RELEASE DEVICE FOR FIRE PROTECTION APPARATUS
William B. Griffith, Audubon, N. J.
Application February 27, 1941, Serial No. 380,840
4 Claims. (Cl. 169—2)



4. A release device for fire protection apparatus comprising, a cylinder forming an air chamber subject to a rapid rate in rise of temperature, a head closing one end of the cylinder, a collar upon the end of the cylinder opposite to the head, a sleeve supported upon the collar and extending axially into the cylinder, a plunger mounted for movement within the cylinder between the inner end of the sleeve and said head, a spring tending to move the plunger for compressing the air in said chamber, a cup-shaped piston slidably mounted in said sleeve with its open end adjacent to the collar, means securing the closed end of the piston to the plunger, a link including separable members and

a fusible element adapted for releasing said members at a predetermined temperature, means securing one member of the link to the piston at the open end of the latter, a cross-bar detachably mounted upon the collar, means securing the opposite member of the link to the cross-bar for normally holding the piston against the action of the spring, and said cylinder having an air outlet connection.

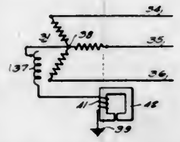
2,287,990
ZERO SEQUENCE ISOLATOR
Samuel B. Griscom, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 12, 1941, Serial No. 402,175
7 Claims. (Cl. 171—97)



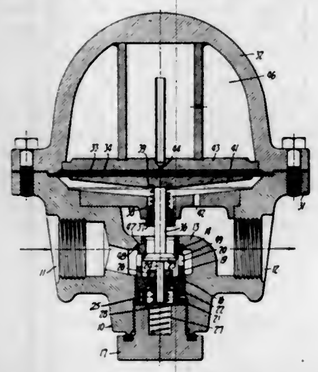
7. In combination, two alternating current polyphase electric systems comprising a plurality of circuit conductors, one of said systems having a grounded neutral and the other of said systems having a grounded arc suppressing inductive reactance means which grounds a point of the system and is so dimensioned electrically as to take up upon grounding of one phase conductor of the system a current which substantially neutralizes the resultant capacity current flowing to ground over the ungrounded phase conductors of the system, a tie line interconnecting said systems for exchange of power between the systems, and means connected in said tie line for introducing a high reactance to the flow of zero sequence current through the tie line circuit conductors connected between the systems, while permitting the ready flow of balanced polyphase power current between the systems, comprising an iron core about which is provided a winding for each phase conductor of the tie line circuit, the several windings being closely coupled, being wound in the same direction, and being similarly connected to the several phase conductors, an additional winding on the core and capacitor means connected across this winding of such capacitance that the fundamental frequency reactive component of the core magnetization current is essentially neutralized for normal phase to neutral voltage impressed across the terminals of the phase conductor windings associated with the core.

2,287,991
ALTERNATING-CURRENT ELECTRIC POWER SYSTEM
Samuel B. Griscom, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 12, 1941, Serial No. 402,176
4 Claims. (Cl. 171—97)

4. In combination, an alternating-current electrical transmission system having a ground fault neutralizer comprising a grounding reactor connected between a neutral point of the system and ground and so dimensioned electrically as to take upon the grounding of one phase conductor of the system a current which substantially neutralizes the resultant capacity current flowing to ground over the ungrounded phase conductors of the system, and a resonance current eliminating device connected in series with said grounding reactor between said neutral point of the system and ground and so dimensioned electrically as to present a much higher reactance to the flow of low values of current through it than does the grounding reactor and to present a progressively lower reactance to the flow of current through it at current values below that which flowing in the grounding reactor neutralizes the capacity current above-named.

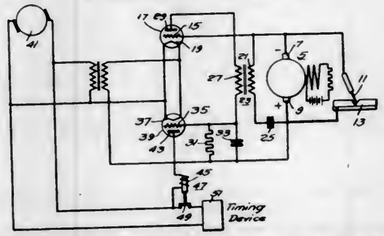


2,287,992
VALVE CONSTRUCTION
Marvin H. Grove, Berkeley, Calif.
Application October 4, 1939, Serial No. 297,855
3 Claims. (Cl. 50—21)



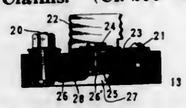
1. In a valve construction, a valve body having fluid inlet and outlet passages and also having bridge means between said passages, a seat ring fitted upon the bridge means, an opening through one side of the body in general alignment with the seat ring, a closure for the opening removably secured to the body, a sleeve extending from the seat ring and disposed within said opening, there being a clearance between the sleeve and the body whereby alignment of the sleeve is determined by the positioning of the seat ring, resilient means interposed between the closure and the adjacent end of said sleeve, whereby said sleeve is urged by said resilient means to rigidly hold the seat ring upon the bridge, a valve member cooperating with the valve seat, a stem secured to the valve member, said stem terminating short of said closure and being guided solely within the sleeve, and spring means interposed between the valve stem and said closure.

2,287,993
ELECTRIC DISCHARGE APPARATUS
Finn H. Gulliksen, Pittsburgh, Joseph W. Allison, Swarthmore, and Cullen T. Pearce, Ridley Park, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 7, 1939, Serial No. 293,726
9 Claims. (Cl. 219—8)



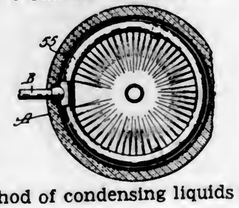
1. For use in actuating a timer that times the operation of an arc-welder supplied from a potential source, the combination comprising electric discharge valve means having control circuit means and principal circuit means interposed between said source and said timer and means for impressing the terminal potential of said source on said control circuit means and on said principal circuit means.

2,287,994
ELECTRIC SWITCH
Herman J. Hammerly, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a corporation of Connecticut
Application January 27, 1940, Serial No. 315,957
5 Claims. (Cl. 200—6)



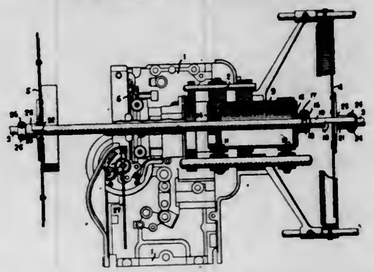
1. An electric switch including a plate having an angular extension on one edge thereof with a slotted portion, an insulating base on said plate, a stationary contact on the base, a movable contact biased into engagement with the stationary contact, a pivoted lever on the base for moving said movable contact out of engagement with said stationary contact, said lever having an extension movable in said slotted portion and a handle pivoted on said plate extension for actuating said lever.

2,287,995
APPARATUS AND METHOD FOR CONDENSING LIQUIDS
Raymond R. Haugh, Chicago, Ill., assignor to Vernon C. Usher, Chicago, Ill.
Application December 16, 1939, Serial No. 309,689
6 Claims. (Cl. 159—4)



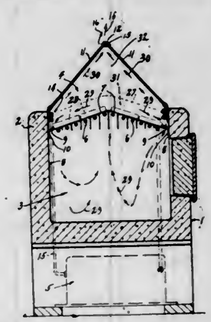
3. A method of condensing liquids which comprises mixing said liquid with superheated steam, collecting the treated liquid, dispersing the treated liquid into small drops and adding the same to the mixture of superheated steam and liquid.

2,287,996
ADJUSTING MEANS FOR FRONT AND REAR SHUTTERS OF MOTION PICTURE PROJECTORS
Henry F. Heidegger, Brooklyn, N. Y., assignor to International Projector Corporation, New York, N. Y., a corporation of Delaware
Application July 15, 1938, Serial No. 219,333
15 Claims. (Cl. 88—19.3)



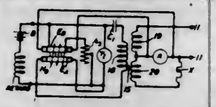
15. In a motion picture projector, a rotatable shaft, a front and a rear shutter adjustably secured to said shaft and an adjusting rod removably mounted in the optical axis of said projector and having portions thereof so spaced as to be in the path of movement of said shutters and serving as a means to indicate where the shutters should be secured to said shaft.

2,287,997
REFRIGERATED SHOWCASE
Edwin W. Jarvis, Los Angeles, Calif., assignor to Kold-Kist, Inc., Los Angeles, Calif., a corporation of California
Application February 3, 1941, Serial No. 377,126
6 Claims. (Cl. 62—89.5)



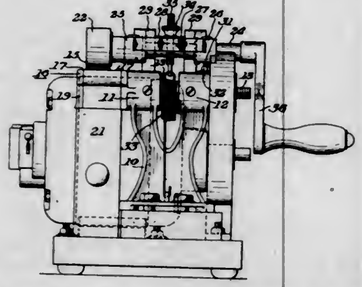
1. In a refrigerated display case, the combination of a display rack, transparent members disposed over the display rack, refrigerating means disposed below the display rack, the display rack being positioned in the case to provide an air passage at its edge adjacent the inner wall of the case, the transparent members being inclined upwardly over said display rack, and means for heating the air adjacent the lower position of the transparent members so that heated air flows upwardly along the inner surface of the transparent members.

2,287,998
TELEPHONE CIRCUIT
Kenneth S. Johnson, South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 10, 1939, Serial No. 278,411
14 Claims. (Cl. 179—81)



1. A telephone set circuit comprising a transmitting circuit including a transmitter, a receiving circuit including a receiver, and variable resistance means in said receiving circuit for reducing the side tone that would be produced in said receiver during talking into said transmitter, the resistance of which means varies non-linearly with its temperature.

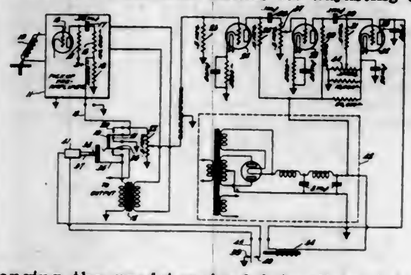
2,287,999
MACHINE FOR CONDITIONING LEATHER SURFACES
John H. Kelly, Pittsburgh, Pa.
Application May 7, 1940, Serial No. 333,783
12 Claims. (Cl. 69—1)



1. A machine for conditioning the surface of leather preparatory to receiving a cementitious substance, consisting of a rotary driven cutter having teeth on its perimetral surface for producing the conditioned surface, a pressure roll having a resilient perimetral portion and rotatably supported to cooperate with the cutter in forming a throat through which the leather passes, and means to rotate the pressure roll for controlling the movement of the leather passing through the throat.

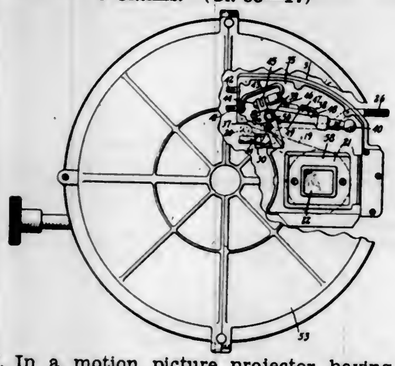
2,288,000
SOUND REPRODUCING APPARATUS
Norval Ray Kelly, Great Neck, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application October 31, 1939, Serial No. 302,248
3 Claims. (Cl. 179—100.4)

1. In combination, an electrical phonographic translating device, an output circuit therefor, means connected in said output circuit for opening said circuit, and means connected to said translating device and said circuit opening means for causing said circuit opening means to open when the output is below a predetermined intensity and for causing said means to close said circuit when the said output is above said predetermined intensity, said predetermined intensity substantially corresponding with the surface noise level of said phonographic translating device and potentiometer means for adjusting and



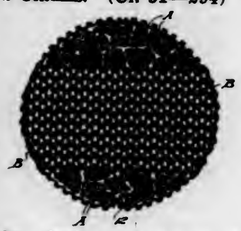
changing the predetermined intensity point.

2,288,001
FRAMING MECHANISM FOR MOTION PICTURE PROJECTORS
Albert Kindelmann, Floral Park, and Leo Thoma, Richmond Hill, N. Y., assignors to International Projector Corporation, New York, N. Y., a corporation of Delaware
Application September 10, 1938, Serial No. 229,270
9 Claims. (Cl. 88—17)



7. In a motion picture projector having an aperture, a fire shutter, a framing light, manually actuatable means having a one way connection with the fire shutter and serving as a means to move said framing light adjacent the aperture and simultaneously to move the fire shutter away from the aperture and means to move the framing light away from the aperture and to move the shutter to close the aperture when the manually actuatable means is released.

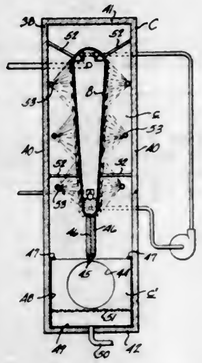
2,288,002
SCOURING DEVICE
Barclay A. Kingman, Orange, N. J., assignor to Downy Products Company, Orange, N. J., a corporation of New Jersey
Application July 15, 1941, Serial No. 402,465
2 Claims. (Cl. 51—294)



1. A scouring device comprising, an internal

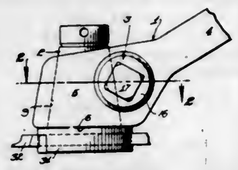
mass of spongiform material and an external covering enveloping said mass, said covering comprising an open mesh fabric knitted from vegetable fiber yarn, and a coating comprising a mixture of pulverized abrasive material and an insoluble adhesive whereby the abrasive is secured to strands of said mesh fabric without filling or obstructing the mesh openings thereof.

2,288,003
AIR CONDITIONING APPARATUS
George M. Kleucker, St. Louis, Mo., assignor to Midwest Coolers, Inc., St. Louis, Mo., a corporation of Missouri
Application June 12, 1939, Serial No. 278,607
6 Claims. (Cl. 62—133)



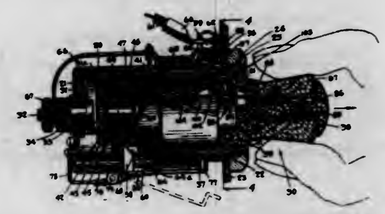
1. Air conditioning apparatus comprising a chamber-providing structure having upper and lower compartments, a heat exchanger in the upper compartment, means associated with said heat exchanger for forming a coating of ice thereon, means in the lower compartment for receiving and holding the ice upon removal from the heat exchanger, and means for passing air through the lower compartment.

2,288,004
TOOL HOLDER
Earl M. Lauderdale, Walnut Park, Calif.
Application October 21, 1940, Serial No. 362,101
13 Claims. (Cl. 82—37)



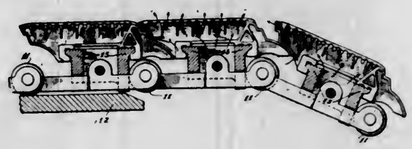
1. A machining tool holder comprising: a mounting member having a tapered socket therein, and a key bore disposed in laterally offset but intersecting relation therewith; a correspondingly tapered mandrel adapted to fit said socket and carrying a machining tool element; and a key post fitting said bore; said key post having a notch complementary to said tapered socket and said mandrel having a keyway complementary to said key bore.

2,288,005
CIGAR LIGHTER
Herbert G. Lehmann, Wood-Ridge, N. J., assignor to Automatic Devices Corporation, Bridgeport, Conn., a corporation of Connecticut
Application August 8, 1938, Serial No. 223,627
18 Claims. (Cl. 219—32)



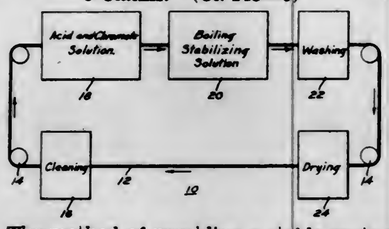
1. In a cigar lighter, a holding device; an igniting unit having a heating element thereon removably mounted on the holding device; a detent carried by the holding device for yieldably maintaining the igniting unit in position on the holding device; means for energizing the heating element; electromagnetic means rendered operative upon energization of the heating element to actuate the detent to hold the igniting unit positively against withdrawal from the holding device; and means, mechanically independent of said detent, for altering the energization of said electromagnetic means to render it inoperative upon the heating element attaining a predetermined useable temperature, whereby the detent becomes yieldable again and the igniting unit can be withdrawn from the holding device.

2,288,006
GRATE BAR
William Lloyd, New York, N. Y., assignor to Combustion Engineering Company, Inc., New York, N. Y.
Application December 2, 1939, Serial No. 307,220
3 Claims. (Cl. 110—40)



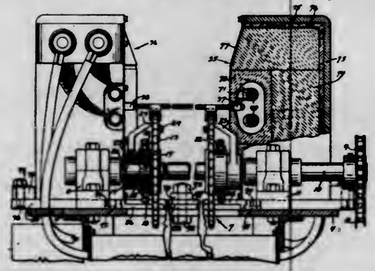
3. In a travelling grate having carrier bars, each bar being provided with a skeleton dovetail extending lengthwise thereof and formed with air slots between the dovetail portions; a plurality of fuel supporting keys mounted on said dovetails of said bars formed on their side faces with contacting ribs extending from their top rear edges to their bottom rear edges and formed on their side faces with other contacting ribs extending along their front edges from the bottom of nozzle-like air passages just below the top of each of the keys and thence for a substantial distance downwardly, said contacting ribs along the rear edges of the keys lying in substantial contact with said contacting ribs along the front edges of the next adjacent keys, whereby the air flow to the space between the adjacent keys is admitted substantially only through said nozzle-like air passages.

2,288,007
CORROSION RESISTANT FILM ON ZINC
John C. Lum, Union, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 26, 1941, Serial No. 380,653
5 Claims. (Cl. 148—6)



1. The method of providing a stable protective coating on zinc or cadmium base metals which comprises applying a solution containing a chromium compound and a mineral acid to the metal and thereafter applying a hot aqueous solution containing at least one solute selected from the group consisting of alkali hydroxides and chromate and dichromate salts to provide for a durable, heat stable protective coating.

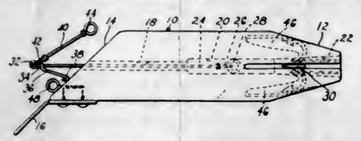
2,288,008
HEAT TREATING APPARATUS
Joseph Mason, Providence, R. I., assignor, by mesne assignments, to United Aircraft Products, Inc., Dayton, Ohio, a corporation of Ohio
Application July 16, 1941, Serial No. 402,600
9 Claims. (Cl. 263—8)



1. In a heat treating apparatus, the combination with a conveyor, of heaters disposed at opposite sides of the conveyor, each heater being formed with a heating slot which is disposed in confronting relation to the conveyor and which extends longitudinally thereof so that opposite ends of articles supported on the conveyor may be carried into, through, and away from said slots, and means for adjusting each of the heaters toward and away from each other and also angularly in the plane of the conveyor travel to cause the mouths of the slots to converge or diverge relative to each other.

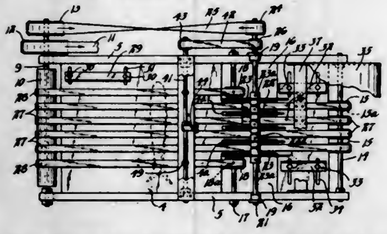
2,288,009
FISHING LURE OR ARTIFICIAL FISHING BAIT
Joseph Stephen Matasy and Andrew Paul Ballantyne, Youngstown, Ohio
Application June 26, 1940, Serial No. 342,490
5 Claims. (Cl. 43—46)

1. A fishing lure comprising a body simulating the shape of a fish and having a longitudinal bore therethrough, a gang hook, means extending through the longitudinal bore and secured to the gang hook, a stop on the front end of said means to limit the backward movement of said means in the bore and so constructed and arranged that when such limit is reached the gang hook will hang free of the body in fish-engaging position, said body having a plurality of longi-



tudinally extending slots adjacent the rear portion thereof so that when the means is pulled forwardly in the longitudinal bore the points and barbs of the gang hook are received in the slots and are completely covered and inoperative, and a lock associated with the end of said means opposite the gang hook for securing the means to hold the gang hook in inoperative position.

2,288,010
FISH CUTTING MACHINE
John M. Meland, Minneapolis, Minn.
Application May 7, 1941, Serial No. 392,241
8 Claims. (Cl. 17—4)

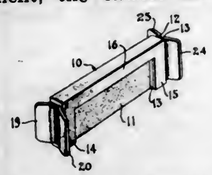


1. A machine for cutting fish and the like comprising a frame having forward and rear ends, forward and rear pulley shafts rotatably mounted in parallelism at the two ends of the frame, pulleys carried by said forward and rear shafts, spaced endless belts working over the pulleys on the two shafts, a knife shaft mounted for rotation above said belts, a plurality of inner circular knives carried by said knife shaft in spaced relation, a pair of outer circular knives also carried by said knife shaft and spaced outwardly respectively from the outermost of the inner knives, said outer knives being of greater diameter than the inner knives, said inner knives being adapted to work between adjacent belts and the outer knives being adapted to work at the outer edges of the outermost belts, means for driving one of said pulley shafts and means for driving said knife shaft.

2,288,011
TEETH SEPARATOR
Albert D. Mizzy, New York, N. Y.
Application November 23, 1940, Serial No. 366,835
5 Claims. (Cl. 32—64)

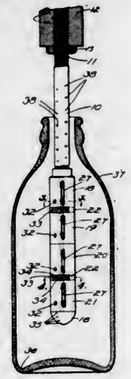
3. In a tooth separator, a blade having an abrading surface, a guard for the blade having a detent thereon for interlockment of blade and guard upon face-to-face placement of blade against guard, and a carrier for the assembly of blade and guard having an abutment on which the assembly is seated by one edge thereof, a second abutment against which is set one face of said guard when the assembly is seated on the

first abutment, and means on the carrier for holding the blade against the guard and for holding the assembled blade and guard against said second abutment, the carrier having an end



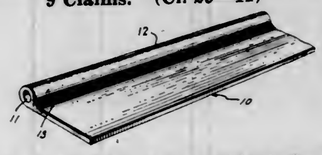
opening through which the assembly may be introduced and moved longitudinally thereof over said first named abutment to its home, or operative, position in the carrier.

2,288,012
ADJUSTABLE NOZZLE FOR TEMPERING BOTTLES AND OTHER GLASS CONTAINERS
Charles E. Mongan, Jr., Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware
Application August 21, 1940, Serial No. 353,453
5 Claims. (Cl. 299—144)



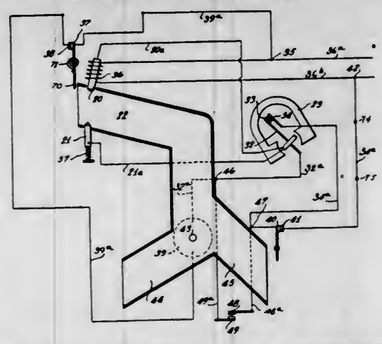
1. A nozzle of the character described comprising a tubular body member having a longitudinally extending narrow discharge aperture at one side thereof, a longitudinal series of sleeves on the body member, each independently rotatable around the axis of the body member independently of the body member, each sleeve having an elongate narrow aperture adapted to uncover a portion of the aperture in the body member for the full width of said last named aperture when the sleeve is angularly adjusted on the body member to a particular position thereon and to vary to zero the extent that said portion of the aperture in the body member will be open on rotation of said sleeve member from said particular position in either direction, and ring segments on the body member between adjacent sleeves, said ring segments being secured against rotary movement relatively to the body member so that the ends of each ring segment are located at opposite sides of the longitudinally extending discharge aperture in said tubular body member at substantial distances from said opposite sides of that aperture, the adjacent sleeves on said tubular body member having longitudinally extending lugs at their adjacent ends projecting into the arcuate gap between the ends of the intervening ring segment, the free ends of said lugs being close to each other, said lugs being formed to provide slots therein constituting end extensions of the elongate narrow apertures in said sleeve and the width of said lugs being sufficiently less than that of the gaps between the ends of the ring segment to permit said angular adjustments of said sleeves on said tubular body member.

2,288,013
METHOD OF MAKING CONNECTORS
Roy D. B. Moynahan, Birmingham, and Edward K. Pilcher, Detroit, Mich., assignors to Bohn Aluminum & Brass Corporation, Detroit, Mich., a corporation of Michigan
Application October 27, 1941, Serial No. 416,700
9 Claims. (Cl. 29—11)



1. The method of making a blank for a connector which comprises: extruding a length of material in the form of a strip having a hollow bead along one edge, and cutting away sections of the hollow bead to form a strip having perforated segments projecting along one edge thereof.

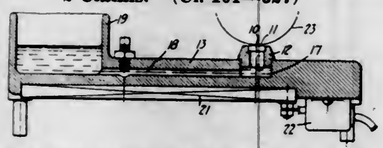
2,288,014
DEVICE FOR THE AUTOMATIC DETECTION OF GENUINE COINS
James F. Mullen, River Rouge, and Wendell R. Brooks, Dearborn, Mich., assignors to Electric Slug Rejector and Manufacturing Corporation, a corporation of Missouri
Application January 12, 1940, Serial No. 313,550
4 Claims. (Cl. 194—100)



1. In a coin detecting device, a primary actuating control circuit including a galvanometer type relay provided with a pair of contacts, a pair of spaced coin contacts in said circuit adapted when bridged by a genuine coin, to cause said relay to be energized, a coin selector including a coin chute, and a secondary actuating circuit for actuating said selector including a solenoid, connections thereto from a main source of electricity through said relay and a work circuit in shunt with said relay contacts having a normally open switch therein mounted adjacent to said solenoid and coin selector to be closed by said solenoid immediately said solenoid is caused to be actuated by the presence of a genuine coin in said primary circuit, thereby to maintain cur-

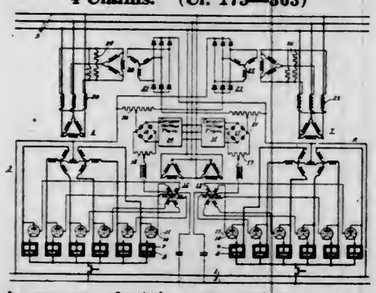
rent through said work circuit around said galvanometer contacts directly to said solenoid from said main source of electricity, a normally closed switch in said work circuit and means projecting into said coin chute beyond said coin selector to cause said normally closed switch to be opened by the passage of a genuine coin after said coin has passed said selector, thereby to interrupt the flow of current to said solenoid.

2,288,015
MARKING DIE
Harold J. Mumma, Glendale, Calif., assignor to Ahlburg Company, Los Angeles, Calif., a corporation of California
Application October 18, 1939, Serial No. 299,985
2 Claims. (Cl. 101—327)



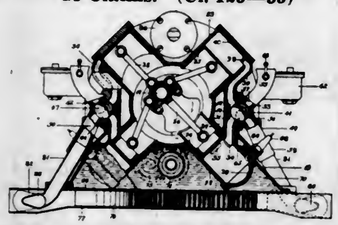
1. In a self inking marking appliance, a die block having raised characters formed on its upper face, relatively narrow slits extending through the block and through the characters, whereby said slits interrupt the outer faces of the characters and follow generally the contouring of the characters, a mounting for the block, said mounting affording a reservoir for ink upon the underside of the block and in communication with said slits, said slits providing a supply of ink by capillary action at said upper face, and means for supplying a fluid ink to said reservoir.

2,288,016
VAPOR ELECTRIC DEVICE
Henry C. Myers, Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 26, 1940, Serial No. 362,932
4 Claims. (Cl. 175—363)



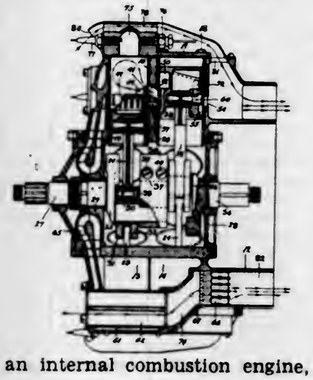
1. A vapor electric conversion system for transferring electric energy between an alternating current circuit and a direct current circuit comprising a plurality of parallel operating converters, each converter including a transformer interconnecting the circuits and a plurality of electric valves for controlling the flow of energy through said transformer, a control electrode for each valve of each of said converters, a source of control energy for said control electrodes, auxiliary valves for applying said control energy to said control electrodes, an impulsing transformer for controlling the auxiliary valves of each converter, a biasing system for each impulsing transformer including a constant biasing potential, a biasing potential proportional to the load on a parallel operating converter other than the converter being controlled and circuit means for connecting said biasing potentials in series between the impulsing transformer of the converter being controlled and the negative direct current bus.

2,288,017
INTERNAL COMBUSTION ENGINE
Alfons H. Neuland, Cleveland, Ohio
Application January 13, 1940, Serial No. 313,656
13 Claims. (Cl. 123—55)



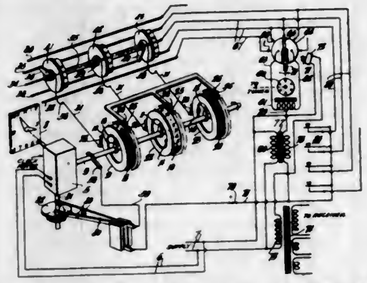
1. In a two stroke cycle internal combustion engine having a crankshaft with a pair of opposed cranks, a pair of in line combustion cylinders, a second pair of in line combustion cylinders arranged substantially at right angles to said first pair of combustion cylinders, a pair of in line induction cylinders arranged substantially at right angles to said first pair of combustion cylinders and a second pair of in line induction cylinders arranged substantially at right angles to said second pair of combustion cylinders for charging said combustion cylinders, a piston for each cylinder connected with said crankshaft so that one of the pistons in each of the pairs of cylinders form a group connected to one of said cranks and the other piston in each of the pairs of cylinders form a group connected to the other crank, and means for connecting each of said combustion cylinders with a corresponding induction cylinder characterized in that each combustion cylinder in one pair is connected with an induction cylinder connected to the same crank and in that each combustion cylinder in the second pair is connected with an induction cylinder connected with the opposite crank.

2,288,018
INTERNAL COMBUSTION ENGINE
Alfons H. Neuland, Cleveland, Ohio
Application March 18, 1940, Serial No. 324,546
14 Claims. (Cl. 123—70)



1. In an internal combustion engine, a combustion piston provided with a duct in its skirted portion adapted to conduct the engine working fluid, a combustion cylinder provided with an exhaust port adapted to be uncovered by the piston and further provided with an induction port also adapted to be uncovered by the piston but only after said piston has partly uncovered the exhaust port, an induction piston provided with a duct adapted to conduct the engine exhaust gas, an induction cylinder provided with an induction port and with an exhaust port adapted to be alternately covered and uncovered by the induction piston, an induction transfer duct connecting the inductions ports and an exhaust transfer duct connecting the exhaust ports in said cylinders, means for charging the induction cylinder through the duct in said combustion piston, means for exhausting the combustion cylinder through the duct in said induction piston, and means including a crankshaft for establishing relative movement between said pistons so that coverage of the exhaust port in the induction cylinder preceeds coverage of the induction port in the combustion cylinder.

2,288,019
TIME CONTROLLED RADIO TUNING SYSTEM
William E. Newman, Moorestown, N. J., and Ellwood S. Maris, Upper Darby, Pa., assignors to Radio Corporation of America, a corporation of Delaware
Application March 1, 1941, Serial No. 381,260
6 Claims. (Cl. 250—40)



1. In a time preselection control system, a plurality of control circuits, a plurality of control circuit selector switch means therefor each having a common input connection, means providing a plurality of synchronously driven time controlled movable contacts, a manually adjustable contact associated with each of said synchronously driven contacts, means for moving said adjustable contacts relative to said synchronously driven contacts by a predetermined number of unitary time intervals, and means providing a circuit from each of said adjustable contacts to the input connection of one of said switch means, whereby said contacts and switch means operate in pairs to provide selection and time operation of said control circuits.

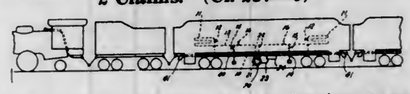
2,288,020
METHOD OF MAKING PRINTING SCREENS
David B. Noland and Murray L. Loftin, Nashville, Tenn.
Application March 27, 1939, Serial No. 264,438
2 Claims. (Cl. 41—38.5)

1. A method of forming a printing screen, comprising impregnating a wire screen of bronze with aluminum foil, forming a protective thermoplastic layer about said foil, etching the composite sheet with a mordant for said aluminum foil, drying the plate, heating the same to melt



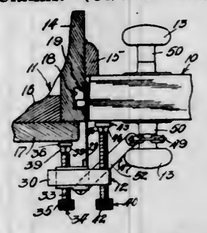
the protective layer, and then re-etching the same in the mordant bath while agitating the bath.

2,288,021
TRAIN HEATING SYSTEM
Rudolf M. Ostermann, Kenilworth, Ill., assignor to The Superheater Company, New York, N. Y.
Application July 30, 1940, Serial No. 348,347
2 Claims. (Cl. 237—6)



1. In a train heating system having a main boiler supplying steam to radiators in cars of the train through a train heating line, separately fired, auxiliary boilers carried by the cars provided with water chambers receiving condensate from said heating line and heaters, and fuel burning means individual to said auxiliary boilers; a direct connection from each auxiliary boiler to said train heating line for returning directly thereto the steam generated from said condensate means responsive to the amount of condensate in the water chamber of an auxiliary boiler for automatically placing its fuel burning means in operation when a predetermined amount of condensate from steam supplied by said main boiler accumulates in said chamber and for discontinuing the operation of said fuel burning means upon evaporation of a determined amount of condensate and return thereof as steam to said train heating line.

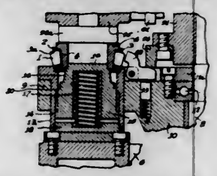
2,288,022
DOOR EMERGENCY LOCK
James J. O'Brien and James Strad, Chicago, Ill.
Application December 14, 1940, Serial No. 370,084
9 Claims. (Cl. 292—291)



1. A readily demountable closure lock for a door comprising a plate insertable between the door and its closure jamb, a hook flange at one end of said plate for insertion into a recess and hooking engagement with an edge of a keeper in said jamb, threaded means carried by said plate and adjustable for engagement with the face of said jamb and cooperating with said hook flange for detachably fixing said plate on the jamb, an arm pivotally carried at one end by said threaded means, an additional threaded means carried by and at the other end of said arm, said arm being swingable into and out of the path of movement

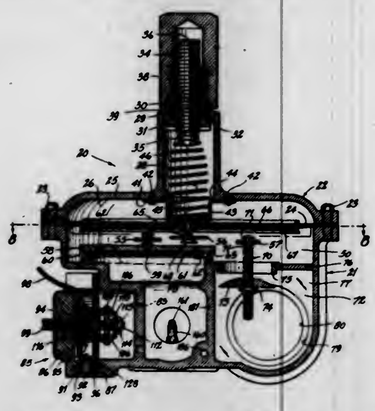
of said door, said additional threaded means being adjustable for engagement with said door for tightly locking the latter against said jamb.

2,288,023
MACHINE FOR ASSEMBLING ROLLER BEARINGS
Herman A. Ortegren and Charles C. Howenstine, Detroit, Mich., assignors to Bower Roller Bearing Company, Detroit, Mich., a corporation of Michigan
Original application December 8, 1937, Serial No. 178,784. Divided and this application April 29, 1940, Serial No. 332,315
5 Claims. (Cl. 29—84)



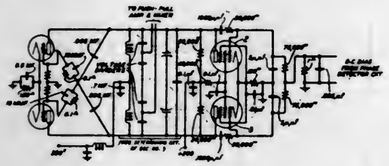
1. In a machine for assembling anti-friction bearings with multiple rollable elements in apertured cages, a base member, a workholder member rotatably mounted on said base member, a plurality of bearing cage holder members spaced at intervals around said workholder member, cage locating means associated therewith and movable into and out of said cage apertures, means for rotating and indexing said workholder member, and means operable in timed relationship with the rotation of said workholder member for actuating said cage locating means.

2,288,024
GAS VALVE
Lawrence M. Persons, St. Louis County, Mo., assignor to Automatic Control Corporation, St. Louis, Mo., a corporation of Delaware
Application November 28, 1938, Serial No. 242,748
6 Claims. (Cl. 50—5)



5. A gas valve comprising a casing, a pressure-actuated diaphragm within the casing, a chamber on each side of the diaphragm, a lever pivoted to the casing disposed within one chamber, said lever being connected to the diaphragm for movement therewith, an inlet chamber, an outlet chamber, a valve within the said one of said chambers connected to the lever for movement therewith adapted to close an opening between the outlet chamber and the said one of said chambers when in one extreme position of movement, a second valve in the inlet chamber connected to the lever for movement therewith adapted to move towards and away from an opening between the inlet chamber and the one of said chambers, and means for exhausting gas from and introducing gas into the other of said chambers to control the movement of the diaphragm.

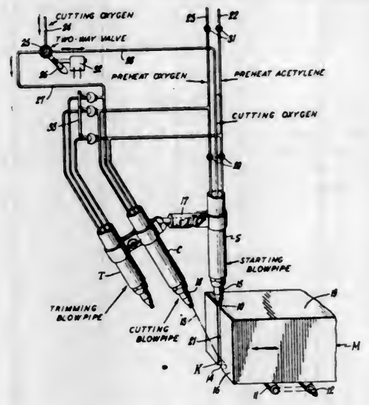
2,288,025
AUTOMATIC FREQUENCY CONTROL SYSTEM
Allen F. Pomeroy, Long Island City, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 3, 1940, Serial No. 350,298
5 Claims. (Cl. 250—36)



1. A system for maintaining the frequencies of two waves in locked frequency relation, comprising a source of controlled frequency waves including a reactive frequency determining circuit, a source of controlling frequency waves, a conjugate input phase detector for combining the said waves with the resultant production of a direct potential varying as in accordance with the change in relative phase of the combined waves, and a reactance control tube circuit connecting said phase detector with said source of controlled waves for converting said changes in direct potential to corresponding changes in a reactance element of said frequency determining circuit, said source of controlled waves being a push-pull oscillator and said reactance control circuit comprising a pair of reactance control tubes in like parallel input relation, the output electrodes of said parallel input reactance tube circuit, between which the reactance change occurs, being connected to the frequency determining circuit of said push-pull oscillator so that its reactance is effectively a part thereof.

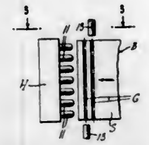
2,288,026
METHOD OF AND APPARATUS FOR INITIATING METAL-REMOVING OPERATIONS
John A. Rea, Shaker Heights, Ohio, assignor to The Linde Air Products Company, a corporation of Ohio
Application May 31, 1940, Serial No. 338,199
10 Claims. (Cl. 148—9)

8. In a method of performing a main metal-removing operation by applying a main metal-removing stream of oxidizing gas to successive portions of a surface of a ferrous metal body along a path beginning at a zone on said surface, the improvement which comprises quickly heating said zone for thermo-chemical reaction with said stream, by projecting a separate flame-cutting starting jet toward said zone along said surface from an edge of said body bordering on said surface to react exothermally with surface portions of said body, said jet thereby forming an incandescent strip extending from said edge to said zone, said incandescent strip being adapted to react with said main metal-removing



stream of oxidizing gas at said zone to start said main metal-removing operation.

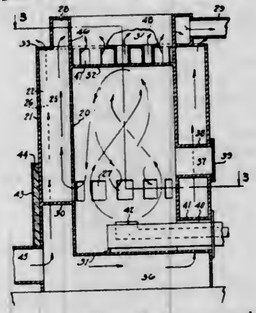
2,288,027
METHOD OF AND APPARATUS FOR INITIATING DESURFACING OPERATIONS
Arthur P. Scheller, Irvington, N. J., assignor to The Linde Air Products Company, a corporation of Ohio
Application May 31, 1940, Serial No. 337,973
15 Claims. (Cl. 148—9)



1. A method of initiating the thermo-chemical removal of a portion of metal from the surface of a ferrous metal body, comprising flame-cutting a groove in said surface adjacent to the starting zone of such metal removal to preheat said zone to the ignition temperature; and applying a metal-removing stream of oxidizing gas obliquely along said surface and against said zone in a direction substantially perpendicular to said groove.

2,288,028
FURNACE
Max C. Richardson, Portland, Oreg., assignor to Iron Fireman Manufacturing Company, Portland, Oreg.
Application November 7, 1939, Serial No. 303,233
4 Claims. (Cl. 126—99)

1. A furnace of the class described consisting of a cylindrical fire box, a plurality of vertical gas flues disposed around said fire box and having out-turned median ridges, the outer walls of the flues being vertical members, having a V-shape in cross-section, the fire box wall constituting the inner sides of the flues, the wall of said fire box having openings connecting with the lower ends of said gas flues, a manifold connected with the upper ends of said gas flues and having open stack connections, a case surrounding said fire box and gas flues spaced therefrom to form an air-warming compartment, and a burner in said fire box disposed below the lower ends of the



openings communicating between said fire box and gas flues.

2,288,029
APPARATUS FOR FORMING HOLLOW GLASS ARTICLES
George E. Rowe, Wethersfield, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware
Application November 4, 1937, Serial No. 172,682
2 Claims. (Cl. 49—5)

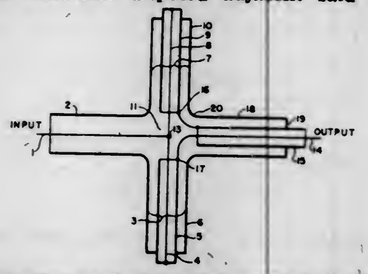


2. In apparatus for forming hollow glass articles, a glass gathering blank mold having a wide-mouthed shallow cavity of substantially less depth than the width of the glass intake mouth thereof, a neck ring having a cavity of appropriate size and contour to form, in effect, an extension of the blank mold cavity when the neck ring is disposed in cooperative registering relation with the blank mold, a cylindrical carrier for the neck ring aligned therewith and having an inner diameter less than that of the neck ring, a pressing plunger mounted to slide in said cylindrical carrier between a position at which the plunger is withdrawn from the neck ring and a position at which the plunger projects into said neck ring in spaced relation with the wall of the neck ring cavity, means limiting the relative movements of the plunger and the cylindrical carrier, a head carrying said plunger, and spring means between said cylindrical carrier and said head tending to maintain the plunger retracted with respect to said neck ring, said head and said plunger being formed with passages adapted to conduct air under pressure to the interior of said neck ring.

2,288,030
TRANSMISSION LINE STRUCTURE
Hans Salinger, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware
Application January 10, 1941, Serial No. 373,869
3 Claims. (Cl. 178—44)

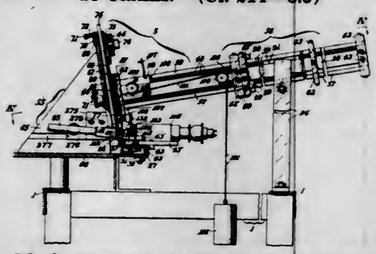
1. A transmission-line structure including a single input terminal line and a single output terminal line, each having an inner conductor

and an outer conductor, a plurality of transmission-line elements having inner conductors and shield conductors connected so as effectively to constitute a reactance network between said input and said output lines, a connection between one of said transmission line element conductors and the outer conductor of one of said terminal lines whereby current flows along the inner surface of said last-named outer conductor and also incidentally along its outer surface, and a shield conductor disposed adjacent said last-



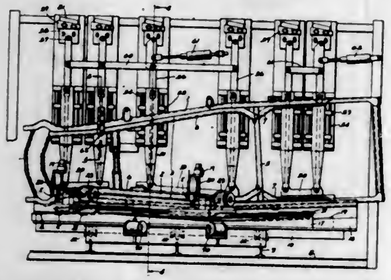
named outer conductor and connected thereto at one of its ends and to another conductor of said structure at the other of its ends, thereby to provide a return flow of said incidental current to said structure, the reactance of the transmission line element formed by said last-named shield conductor and said last-named outer conductor being electrically connected in parallel relation to the reactance of one of said transmission line elements.

2,288,031
FEED MECHANISM
Charles C. Schaefer and Soren A. Tollefson, Oaklyn, and Herman F. Nied, Camden, N. J.
Original application June 10, 1939, Serial No. 278,574. Divided and this application September 19, 1941, Serial No. 411,460
15 Claims. (Cl. 214—8.5)



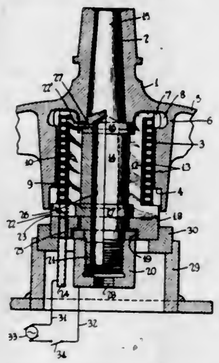
1. Mechanism for feeding individual elements to a moving conveyor, adapted for continuous progression, and including means for supporting the elements in vertical position, a container for the elements with means urging them toward an outlet orifice, a sustaining means for the elements, a device for ejecting the elements individually through the container outlet and depositing them on an adjacent holder, means operating said device incidental to progression of the conveyor, and the holder embodying a recess for temporary reception of the disc; means to prevent vibratory displacement of the disc from the holder recess; means in juxtaposition to the said holder effective to project the element therefrom into coaction with the conveyor supporting means; a suitably influenced thrust device, in the path of the conveyor active flight operative to push the elements received by the conveyor into grippage by the lateral projections aforesaid; and buffer means constraining the element carrying supports from inclination during the impact caused by the disc ejector.

2,288,032
AUTOMATIC WELDING APPARATUS
William E. Smith, Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio
Application December 17, 1940, Serial No. 370,498
10 Claims. (Cl. 219—8)



10. In a welding machine, means for clamping work in fixed position, a welding head, means for moving said welding head lengthwise of the work, means for moving the head horizontally, means for moving the head vertically and on a component of all three directions simultaneously.

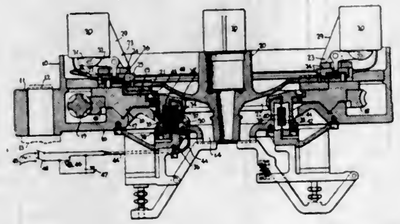
2,288,033
METHOD OF PRODUCING AUTOFRETTAGED HUBS
Howard E. Somes, Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan
Original application September 22, 1936, Serial No. 101,993. Divided and this application January 21, 1938, Serial No. 186,192
6 Claims. (Cl. 148—21)



6. The method of heating the bore of a hollow magnetic body throughout an annular zone of predetermined radial depth and predetermined axial extent, which comprises helically passing high frequency alternating current through an annular path extending closely adjacent to and beyond the ends of said zone and directing substantially the entire flux created by such current

through a confined highly permeable path first longitudinally of and radially within the current path, thence substantially in its entirely beyond the ends of said current path and radially directly into said body at regions axially spaced from the extremities of said zone and finally also substantially in its entirety longitudinally through the cross-section of said body including the zone of predetermined axial extent whereby the said substantial entirety of magnetic flux extends parallel to said zone throughout its axial extent to effect heating of said zone to substantially uniform radial depth throughout the axial extent thereof.

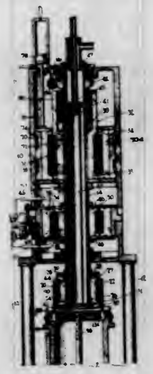
2,288,034
ELECTRIC TRANSMISSION SYSTEM
Howard E. Somes, Grosse Pointe Park, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan
Application July 25, 1939, Serial No. 286,345
8 Claims. (Cl. 266—6)



1. In combination, a stationary support, a work holder rotatably mounted on said support, an electrically actuated work engaging latch element carried by the work holder for securing a workpiece in place in said work holder, yieldable means cooperating with said stationary support and with said latch element for moving the latch element in a direction to cooperate with the work, a secondary transformer element in the form of an annulus mounted on the work holder concentric with the axis of rotation of the latter and electrically connected with a latch actuating element for energizing the same, a primary transformer element in the form of an annulus mounted on the stationary support concentric with said axis of rotation and out of contact with but in inductive relation with said secondary transformer element, and means fixed in relation to said stationary support for effecting connection of said primary element with a source of electric energy supply.

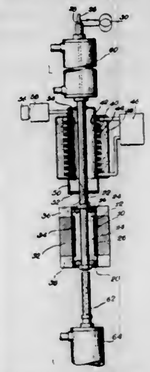
2,288,035
HEAT TREATING APPARATUS
Howard E. Somes, Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan
Application May 17, 1940, Serial No. 335,844
11 Claims. (Cl. 219—13)

1. Apparatus for induction heating comprising a support, a member rotatably carried by said support and fixed against axial movement with respect thereto, a heat-treat head including an inducing coil carried by said rotatable member, a transformer secondary having a coil concentric with and fixedly carried by said member, electric circuit connections between said inducing coil and said transformer coil, and a transformer primary coil concentric with said secondary coil and carried on said support for cou-



pling relation with said secondary coil.

2,288,036
INDUCTION HEAT TREATING
Howard E. Somes, Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan
Application May 20, 1940, Serial No. 336,128
12 Claims. (Cl. 219—13)

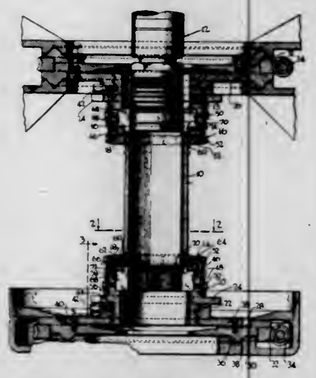


1. In an electromagnetic induction heat treatment apparatus, a heat treat head, means for relatively moving said heat treat head into and out of operative position with relation to a work piece, means independently of and operatively associated with said head for abstracting heat therefrom, and means for reducing any tendency for moisture to form on said head while the head is at a temperature below that at which moisture might be deposited thereupon.

2,288,037
CLUTCH
Howard E. Somes, Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan
Application May 20, 1940, Serial No. 336,130
12 Claims. (Cl. 219—13)

1. In a chuck, an annular support member, a plurality of resilient members substantially uniformly circumferentially spaced and secured to said member and paraxially extending, said member having torsion resisting recesses and

shoulders for maintaining said resilient members



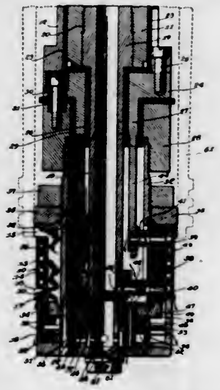
paraxial, and a gripping finger on each of said resilient members.

2,288,038
HEAT TREATING APPARATUS
Howard E. Somes, Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan
Original application January 21, 1937, Serial No. 121,598, now Patent No. 2,208,607, dated July 23, 1940. Divided and this application July 22, 1940, Serial No. 346,812
11 Claims. (Cl. 219—13)



1. Apparatus for heat treating an elongated hollow cylindrical object at and near the inner surface, comprising means for holding the object to be treated, a transformer having relatively movable primary and secondary windings, an induction heating element electrically connected with the secondary winding for energization thereby, means for moving the heating element and the complete transformer as a unit relative to the holding means to move the heating element through the hollow object, and means for moving the primary winding into and out of transformer coupling relation with the secondary winding independently of the relative movement between the heating element and the said holding means.

2,288,039
HEAT-TREATING APPARATUS
Howard E. Somes, Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan
Original application June 8, 1939, Serial No. 277,996. Divided and this application September 22, 1941, Serial No. 411,851
12 Claims. (Cl. 219—13)

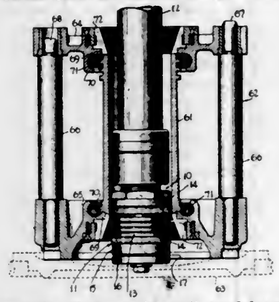


1. In combination an induction heat-treating head comprising a hollow cylindrical core support, a hollow cylindrical radially laminated core mounted on said support, a flange carried by the support near the longitudinally outer end for engagement with the longitudinally outer end of the core, a clamping nut threaded onto the support longitudinally inward of the core for clamping the core against the said flange, a tubular conductor winding for the core having terminals extending radially inward to the interior of the support, a mounting flange threaded onto the longitudinally inner end of the core support, a terminal ring element secured to the mounting flange and insulated therefrom, a conducting extension element connecting the terminal ring with the longitudinally inner terminal of the tubular winding through the interior of the support, a hollow supporting shaft for the coil and core support extending through the core support and electrically connected with the longitudinally outer terminal of the coil, and a conducting sleeve element mounted on said supporting shaft, insulated therefrom and secured to said terminal ring in electrical connection therewith.

2,288,040
WORK HOLDER FOR HEAT-TREATING APPARATUS
Howard E. Somes, Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan
Original application June 8, 1939, Serial No. 277,996. Divided and this application September 22, 1941, Serial No. 411,852
14 Claims. (Cl. 219—13)

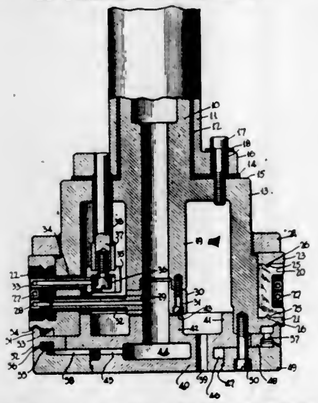
1. In combination, an induction heat-treating head having an inducing coil of definite axial length arranged to be passed through a hollow cylindrical workpiece from outside of one end through and out of the other end, a holder for the workpiece, and a pair of annular end pieces of low magnetic reluctance carried by the holder arranged to form short hollow cylindrical extensions for each end of the workpiece effectively

extending each end a distance equal to at least



the axial length of the said coil and having their inside surfaces outwardly flared.

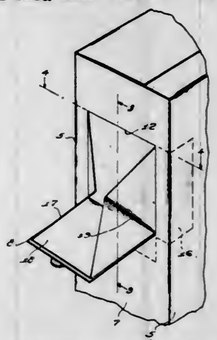
2,288,041
INDUCTION HEAT-TREATING APPARATUS
Howard E. Somes, Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan
Original application September 17, 1937, Serial No. 164,320. Divided and this application September 23, 1941, Serial No. 411,963
15 Claims. (Cl. 219—13)



1. An induction heating head comprising inner and outer concentric members of electrically conductive material, means electrically insulating said members from each other, an annular induction heating element surrounding one of said members, and a pair of terminal conductors for said heating element arranged within the confines of the annulus thereof, one of said conductors being electrically connected to one of said members and the other of said conductors being electrically insulated from said last mentioned one member and being electrically connected to the other of said members.

2,288,042
DISPENSING CARTON
Lila H. Spilman, Knoxville, Tenn.
Application April 1, 1940, Serial No. 327,303
1 Claim. (Cl. 221—11)

A dispensing carton having an opening in one wall, a closure constructed of the material of the wall and having one edge connected to said wall for swinging into and out of position relative to the opening for opening and closing the carton, a foldable spout including a bottom wall secured to the inner face of the closure and of a size less than the size of said closure to permit the latter to move into the opening flush with the wall of the carton, and side walls integral with the bottom wall and creased transversely thereof to permit folding of said side walls on the bottom wall



during the movement of the closure into a position closing said opening, said side walls extending beyond one end of the bottom wall and through the opening and secured to the inner face of the wall of the carton about said opening, and a securing tab for releasably securing the closure in opening-closing position.

2,288,043
ADJUSTABLE ELECTRICAL RESISTANCE
Thomas Leonard Stanton, Ruislip, England, assignor to The Bell Punch Company Limited, London, England, a British company
Application December 19, 1941, Serial No. 423,605
In Great Britain October 3, 1940
2 Claims. (Cl. 201—56)

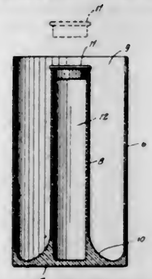


1. An adjustable electrical resistance comprising a coil of wire having closely arranged turns, a support for said coil, a slider, and means guiding said slider for movement along said coil, said slider carrying a blade shaped to provide a V-shaped projecting portion arranged to seat between adjacent turns of said coil and a recess within said projecting portion, and a resilient member having one end secured to said slider and the other end engaged within said recess to urge the blade into engagement with the coil.

2,288,044
GLASS
Norman J. Stemme, St. Louis, Mo.
Application March 13, 1940, Serial No. 323,721
1 Claim. (Cl. 62—147)

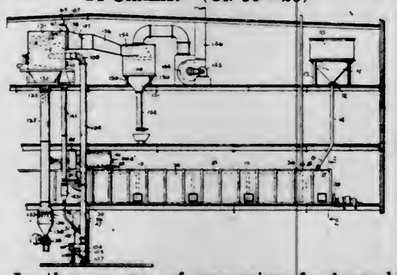
A drinking receptacle comprising a continuous exterior wall, a continuous bottom, and an interiorly disposed continuous wall connected to the bottom and extending upwardly therefrom, said bottom portion having a curved inside surface blending into the inner side of the exterior wall and into the outer side of the interior wall, said interiorly disposed wall being of a predetermined less height than the exterior wall, the inner side of the exterior wall and the outer side of the interior wall and a portion of the bottom

defining a first chamber, the interior side of the interior wall and another portion of the bottom defining a second chamber of such height and of such restricted diameter as to tend to



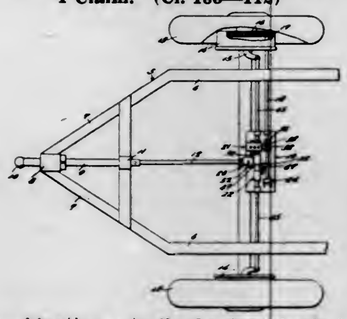
restrict the spilling of the contents of the second chamber during the normal use of the receptacle, and means for substantially sealing the opening of the interiorly disposed continuous wall.

2,288,045
PROCESS FOR ROASTING COCOA BEANS
Thomas J. Stephens, New York, N. Y.
Application October 1, 1938, Serial No. 232,746
14 Claims. (Cl. 99—23)



1. In the process of preparing food products from cocoa beans, the herein described steps of continuously moving a continuous mass of the cocoa beans through a predetermined path and infusing heat at a predetermined temperature into the moving beans during their transit through the first part of the path and maintaining said beans at a predetermined temperature during transit through the latter part of said path.

2,288,046
TRAILER BRAKE CONTROL
Walter D. Stong, Flint, Mich.
Application August 21, 1940, Serial No. 353,564
1 Claim. (Cl. 188—112)

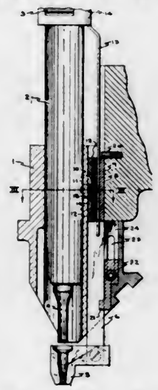


In combination, a trailer having wheels, brakes associated with the wheels, a slidable draft tongue for the trailer, a brake control mechanism, a fluid reservoir, a pump, a valve controlled by the tongue, said reservoir, pump and valve being in communication, and an expansible brake operator in communication with the pump and valve and adapted to be expanded when the valve is opened to communicate the reservoir with the brake operator, and means actuated by the wheels of the trailer for controlling the said expansible operator independently of the valve when the trailer moves independently of a lead vehicle in a rearward direction.

2,288,047
CERAMIC BODY AND A METHOD OF MAKING THE SAME
John D. Sullivan and Chester R. Austin, Columbus, Ohio, assignors to Battelle Memorial Institute, Columbus, Ohio, a corporation of Ohio
No Drawing. Application December 24, 1938, Serial No. 247,682
6 Claims. (Cl. 106—71)

1. A baked but unburned slip-cast ceramic product consisting essentially in its finished form of a major portion of ceramic material including plastic clay, and 5 to 20 per cent of a resin.

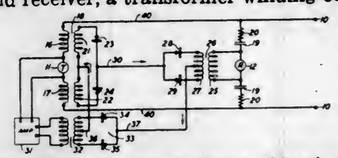
2,288,048
RIVETING MACHINE
Eben D. Taylor, Jackson, Mich., assignor to Tomkins-Johnson Company, Jackson, Mich., a corporation of Michigan
Application November 12, 1938, Serial No. 239,999
10 Claims. (Cl. 78—49)



1. In a riveting machine, a frame, a set, means for operating said set, rivet holding jaws associated with said set, arms mounting said jaws, means supporting said arms, a slideway for said supporting means, said slideway being in said frame at one side of the path of movement of said set, a member connected to said set operating means, said supporting means and member having a frictional connection, and means for limiting the movement of said supporting means in said slideway, whereby said supporting means is moved by said member within limits determined by said limiting means.

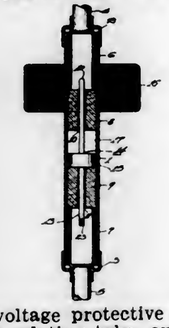
2,288,049
TELEPHONE SET CIRCUIT
Richard J. Tillman, Brooklyn, and Manvel K. Zinn, Manhasset, N. Y., assignors to Bell Telephone Laboratories Incorporated, New York, N. Y., a corporation of New York
Application June 10, 1939, Serial No. 278,398
18 Claims. (Cl. 179—81)

1. A telephone set circuit comprising line terminals, a transmitting circuit including a transmitter and a transformer winding in series across said terminals, a transformer winding coupled to said first winding and having variable impedance means connected across its ends, a receiving circuit connected across said terminals, and including a receiver, a transformer winding in parallel with said receiver, a transformer winding coupled



to said third-mentioned winding and having variable impedance means connected across its ends, said impedance means in the listening condition of said telephone set circuit being of high impedance, and means responsive to voice currents generated by the transmitter when talked into for causing said impedance means to become of low impedance.

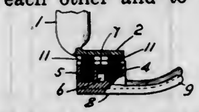
2,288,050
LIGHTNING ARRESTER
Hans Vatter, Berlin-Charlottenburg, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 17, 1939, Serial No. 274,156
In Germany May 19, 1938
18 Claims. (Cl. 175—30)



1. An over-voltage protective device comprising a hollow insulating tube, an electricity-conducting means secured gas-tight to one end of said tube, said means comprising a cylindrical electrode inside said tube near said end thereof, an electricity-conducting means secured gas-tight to the other end of said tube, said tube being filled with a gas at sub-atmospheric pressure, means within said tube for forming a discharge path between the first and second said means, the last said means comprising a movable electrode axially disposed with respect to said cylindrical electrode, and spaced from its sides, means for moving said movable electrode out of said cylindrical electrode, and means for guiding said movable electrode during such movement.

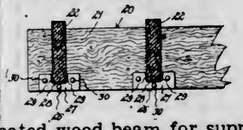
2,288,051
COMPENSATING DOUBLE PRESSER FOOT
Max T. Voigt, Reading, Pa.
Application July 29, 1939, Serial No. 287,316
3 Claims. (Cl. 112—235)

1. A compensated double presser foot for sewing machines comprising, a shank adapted to interfit with the carrying parts of a sewing machine, a yoke carried by the end of said shank, a pivot carried by said yoke, a pair of separate presser shoes mounted on said pivot for reciprocating and pivoting movement in a vertical plane relative to each other and to said pivot, and



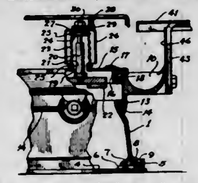
springs interposed between said yoke and each of said presser shoes and yieldingly stressing said presser shoes to the limit of their movement away from said yoke.

2,288,052
FABRICATED WOOD BEAM
Frank R. Walker, Glencoe, Ill.
Application August 14, 1940, Serial No. 352,625
3 Claims. (Cl. 20—1)



1. A fabricated wood beam for supporting the studs forming the framework of a partition to overcome the damaging effect coincident to the shrinking of beams or joists, said partition supporting beam comprising spaced apart longitudinal timbers with the grain of the wood running lengthwise, and stud supporting members spaced apart between the timbers and rigidly secured thereto at only the lower edges thereof, whereby the vertical position of the supporting members and studs will be unaffected by the shrinkage of the longitudinal timbers laterally or across the grain above the member securing means.

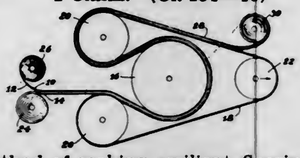
2,288,053
SCALE SHIELD
Charles T. Walter, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application November 7, 1939, Serial No. 303,280
5 Claims. (Cl. 265—27)



1. A scale for determining the weight of articles that may have fluids dripping therefrom, the scale having a weighing system and including indicating means, a sealed housing for enclosing said system and said indicating means, a weighing platform for supporting the article to be weighed, said platform comprising an open grill work, connecting means extending through said housing, said connecting means being secured between said platform and said weighing system to transmit the weight to be measured to said system, said connecting means thus being movable with the system and platform which have relative motion with respect to the housing when an article is placed on the platform, and a flexible sealing means sealed to said housing and said connecting means, said grill platform being provided so that excess liquids may drain rapidly from the articles whereby the influence of this

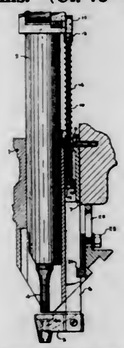
excess fluid upon the weighing system is removed, and said flexible seal being provided so that all fluids draining from the platform will flow down the outside of said housing.

2,288,054
METHOD OF MAKING RUBBER FLOORING
James C. Walton, Newton Center, Mass., assignor to Boston Woven Hose & Rubber Company, Cambridge, Mass., a corporation of Massachusetts
Application July 15, 1939, Serial No. 284,696
1 Claim. (Cl. 154—40)



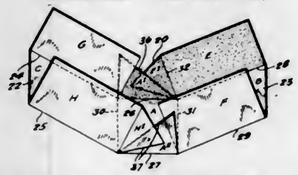
A method of making resilient flooring in continuous strip form and embodying a top wear-resistant layer of relatively dense and cured rubber and a relatively thinner bottom layer of cured sponge rubber vulcanized into face to face contact with a textile fabric sheet which is bonded between and to the top and bottom layers, which consists in compounding and forming sponge rubber into a sheet strip of predetermined thickness and width, bonding a textile fabric backing strip to one face of the sponge rubber strip, vulcanizing the sponge rubber strip, applying a vulcanizable adhesive coating to the exposed face of the textile fabric backing strip, continuously feeding the resulting composite sheet and a relatively dense and thicker sheet of unvulcanized rubber together in parallel relation through an arcuate vulcanizing field of substantial length with the coated face of the fabric backing strip in face to face contact with the dense rubber sheet, and continuously compressing said sheets into firm face to face contact and continuously vulcanizing the rubber of the relatively dense sheet and the compressed sheets into a unit at their contacting faces as the sheets pass through said field, thereby producing the said resilient flooring continuously and in continuous lengths.

2,288,055
RIVETING MACHINE
Loyd A. Ward, Jackson, Mich., assignor to The Tomkins-Johnson Company, Jackson, Mich., a corporation of Michigan
Application September 17, 1936, Serial No. 101,210
4 Claims. (Cl. 78—49)



1. In a riveting machine jaws for holding a rivet, a rivet set, means for reciprocating said set into operative engagement with a rivet in said jaws, a slideway, a slide within said slideway, an abutment projecting from said slide, a rod passing through said abutment, connected to said means for reciprocating said set for movement therewith, an abutment at each end of said rod, a helical spring disposed around said rod on each side of said abutment projecting from said slide and respectively abutting against the abutments on the ends of said rod, and means connecting said jaws to said slide, whereby said helical springs constitute a resilient connection between said slide and said means for reciprocating said set, to move said jaws to dispose a rivet held in said jaws adjacent the work to be riveted and to withdraw said jaws from said work.

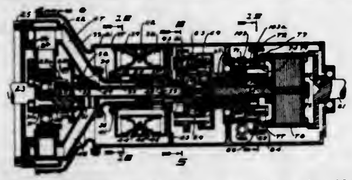
2,288,056
CONTAINER CONSTRUCTION
Oscar W. Wentz, Long Island City, N. Y., assignor to United States Automatic Box Machinery Co. Inc., Boston, Mass., a corporation of Massachusetts
Application May 12, 1939, Serial No. 273,198
2 Claims. (Cl. 229—16)



2. A paper container made of a single sheet and comprising a four-sided bottom, two opposed sides of which are extended to form opposed end walls, the latter each having lateral extensions, juxtaposed lateral extensions being overlapped and adhesively secured together thereby to form opposed side walls, said bottom having flap extensions one at each of its two remaining sides and each flap extension being joined to said bottom throughout the length of the said side of the bottom, whereby said two remaining bottom sides form axes about which said flap extensions may be respectively folded, said flap extensions being folded about their respective said axes upwardly and respectively received in between and adhesively secured to the overlapped lateral extensions of said two side walls, the outermost of each of said overlapped lateral extensions that form said two side walls having downwardly directed flap extensions which, where they respectively join the outermost of said overlapped lateral extensions, are of dimensions at least equal respectively to the lengths of said two remaining sides of said bottom and are folded about said respective axes against and adhesively secured to the under face of the bottom, whereby the two angles formed by the bottom and said two side walls are, throughout their respective apexes which are formed by said axes, at least double-walled, said two side wall flap extensions being together of an area completely covering over said bottom when adhesively secured thereto, thereby to make said bottom at least double-walled.

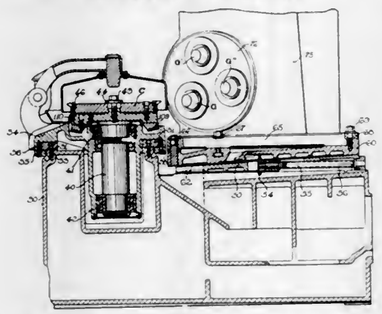
2,288,057
TRANSMISSION MECHANISM
Roy W. Weston, Flint, Mich.
Application August 10, 1938, Serial No. 224,169
5 Claims. (Cl. 74—189.5)

1. In a transmission mechanism, input shaft, an output shaft, a differential gear connected to rotate with said input shaft, a second differential gear connected to rotate with said output shaft, a differential spider member mounted to rotate between said differential gears, differential pinion gears carried by said spider member and meshing with said differential gears, a fluid displacing mechanism positioned to be actuated by relative rotation between said input shaft and said spider member and designed to allow relative rotation in amount proportional to said fluid displacement, a fluid operated unit carried to rotate with said input shaft having a plurality of opposed pistons



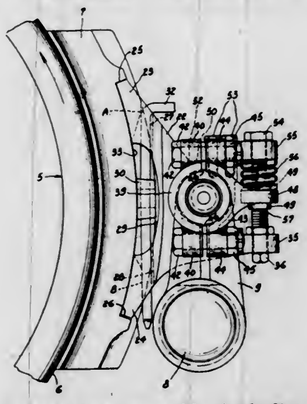
and cylinders movable in proportion to the displacement of fluid from said fluid displacing mechanism, a reaction ring, ends of said opposed pistons positioned to contact said reaction ring, means for adjustably supporting said reaction ring at varying amounts of eccentricity from the center of rotation of said motor, thereby to vary the displacement of fluid allowed to be made by said fluid displacing mechanism into said fluid operated unit whereby relative movement is allowed between said input shaft and said spider member to control gear ratio in proportion to the eccentricity of said reaction ring.

2,288,058
MACHINE FOR CUTTING GEARS
Ernest Wildhaber, Irondequoit, and Clarence T. Galloway, Rochester, N. Y., assignors to Gleason Works, Rochester, N. Y., a corporation of New York
Application June 22, 1938, Serial No. 215,188
25 Claims. (Cl. 90—9)



1. In a gear cutting machine, a work support, a rotary cutter having a plurality of cutting blades arranged radially part-way only around its periphery with a gap between the last and first blades, means for rotating the cutter, means for moving the cutter longitudinally of a tooth space to be cut in time with the cutter rotation so that different blades of the cutter cut at different points along the length of the tooth space during a revolution of the cutter, means for holding the work support against rotation while the cutter is taking its cuts, and means driven in time with the rotation of the cutter for indexing the work support when the gap in the cutter is abreast of the work.

2,288,059
BRAKE SHOE MOUNTING
Alfred O. Williams, Battle Creek, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application May 29, 1940, Serial No. 337,793
10 Claims. (Cl. 188—212)



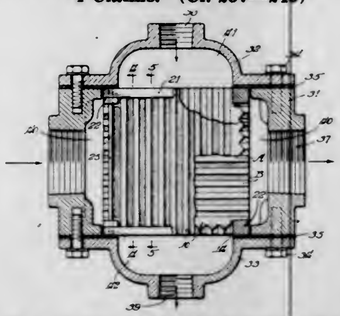
1. A brake shoe assembly including a brake arm having a transverse pivot, a brake shoe head on said pivot and having a rearwardly offset lug, means non-rotatably mounted relative said pivot having a lug portion vertically spaced above said lug, an adjusting stud between said lug and lug portion, means carried on said head overlying said lug portion, and resilient means biased between said overlying means and said lug portion normally rotating said head in one direction relative to said arm, said rotation being limited by said stud.

2,288,060
SOLID WATER-IN-ROSIN PAPER SIZE
Fritz Ariedter, Cologne-Kalk, and Alois Allina, Vienna, Germany, assignors to Gustav Staelin, Larchmont, N. Y.
Application September 2, 1938, Serial No. 228,080
4 Claims. (Cl. 106—238)

2. The process of making concentrated solid water-in-rosin size gel suitable for making dilute aqueous sizing suspensions having practically all size particles less than about 1 micron in diameter which comprises establishing a body of molten rosin having a temperature of about 80 to about 100° C., slowly introducing into said molten rosin up to about 5% by weight of water and about 0.1 to about 0.5% by weight of soluble alkali to form a fluid water-rosin mixture, agitating and reducing the temperature of said water-rosin mixture to about 75 to about 90° C., introducing during agitation at least two protective colloids selected from the group consisting of starches, dextrins, animal glue, gelatine and casein at a temperature of about 40 to about 60° C. in an amount equivalent to about 3 to about 20% of the weight of the rosin and at a rate not greater than that at which said colloids are taken up by the water-rosin mixture, continuing the agitation until a homogeneous water-in-rosin emulsion is formed, slowly introducing into said water-in-rosin emulsion up to about 2% of ammonia by weight in the form of about 33% aqua ammonia, allowing an amount of said ammonia equal to about 0.8% to about 1.0% by weight of the rosin to react with said water-in-rosin emulsion, and then allowing said water-in-rosin emulsion to cool to form a concentrated water-in-

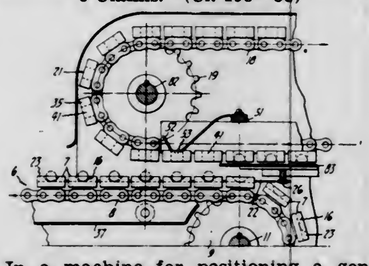
rosin gel containing an amount of total alkali only sufficient to combine with all the protective colloids present and about 20% to about 45% of the rosin present and suitable for the preparation of dilute aqueous rosin suspensions having practically all size particles less than about 1 micron in diameter and containing up to about 93% free rosin.

2,288,061
OIL COOLER AND HEAT EXCHANGER
Arthur B. Arnold, Racine, Wis., assignor to Modine Manufacturing Company, Racine, Wis., a corporation of Wisconsin
Application October 28, 1940, Serial No. 363,081
4 Claims. (Cl. 257—245)



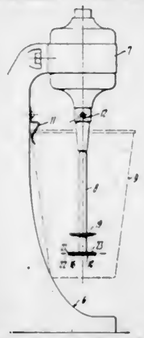
4. In a device of the kind described, the combination of a plurality of substantially square, similar plates, each of the latter having oppositely disposed offset portions adjacent a pair of edges, said plates being corrugated intermediate said offset portions and stacked in assembled relation with alternate plates similarly positioned and with the offset portions of the respective plates positioned at the edges of the intermediate corrugated portion of an adjacent plate, and means for bonding said plates to one another throughout their contacting portions when in assembled relationship, said offset portions being provided with corrugations similar to and engageable with the intermediate corrugations of an adjacent plate, operative to form a series of passages extending transversely to and sealed from one another.

2,288,062
FRUIT HANDLING MACHINE
George W. Ashlock, Jr., Oakland, Calif.
Application September 27, 1940, Serial No. 358,654
8 Claims. (Cl. 198—33)



1. In a machine for positioning a generally spherical article having at least one face thereon capable of resting stably on a flat surface, a first conveyor movable over a path, said conveyor including a row of article receptacles, each receptacle having a slot therein extending in the direction of movement of said conveyor and to adjacent the bottom of each of said receptacles, each receptacle having an inner substantially concave surface for supporting an article positioned therein, an article engaging member positioned parallel to a portion of said path and extending therealong in said slot with a surface thereon co-operatively adjacent the bottom of said receptacle, a second conveyor having a portion thereof extending in a spaced relation to and overlying a portion of said first conveyor and spaced from said first conveyor a distance greater than substantially the diameter of the article at that point whereat said second conveyor releases an article carried thereby to fall into a receptacle on said first conveyor when said first conveyor is traversing said first path portion.

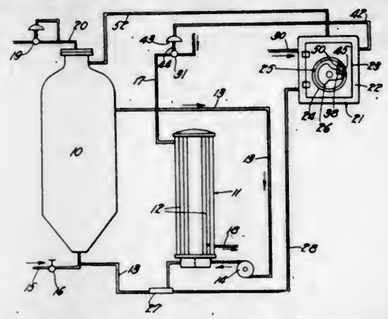
2,288,063
DRINK MIXING DEVICE
George W. Ashlock, Jr., Oakland, Calif.
Application October 28, 1940, Serial No. 363,102
2 Claims. (Cl. 261—93)



1. A mixing device of the class described comprising a standard having a supporting base and carrying a motor and having means for removably supporting a container, an impeller shaft normally positioned substantially vertically to depend from said motor through the atmosphere into materials to be mixed in said removably supported container, said shaft having a passage extending from the atmosphere to adjacent an end of said shaft, and a rotor on said shaft adjacent said end having passages extending from adjacent the periphery of said rotor to said passage, said rotor also having a passage for admitting materials undergoing mixing through a central portion of said rotor into said passages upon rotation of said rotor to mix in said passages air drawn in through said hollow shaft and materials admitted through said rotor passage.

2,288,064
TIME CYCLE CONTROL MECHANISM
Nikolai Belaef, Boston, Mass., assignor to Mason-Neilan Regulator Company, Boston, Mass., a voluntary trust of Massachusetts
Application November 13, 1939, Serial No. 304,086
6 Claims. (Cl. 236—46)

1. In a time cycle controller having a condition value setting mechanism, the combination with a chart and associated recorder mechanism, of a cam and associated means for governing the control setting of said condition value setting mechanism, a rotatable shaft on which said chart is mounted, a bridge extending over said chart and pivotally mounted at one side thereof, said cam being rotatably mounted over said chart on said bridge, and having its axis of rotation substantially in axial alignment with the axis of



said shaft, cam driving mechanism associated with said bridge, and means for operating said cam driving mechanism and for rotating said chart at predetermined rates in respect to time.

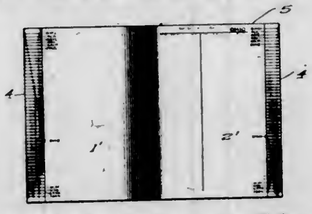
2,288,065
DIGESTION TUBE
Joseph Benotti, Weston, Mass., assignor to Ethan Allan Brown, Boston, Mass.
Application April 10, 1941, Serial No. 387,951
3 Claims. (Cl. 23—292)



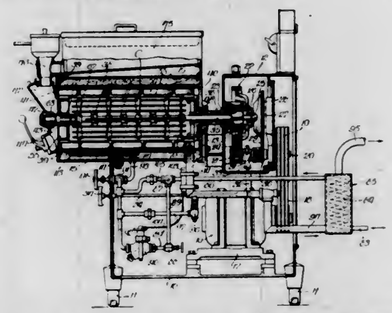
1. A digestion tube having a closed end and an open end, the portion of the tube adjacent the end closure comprising, with such closure, a relatively shallow and wide well for retaining a body of liquid to be mixed, heated, dissolved, boiled or digested, and a length of said tube adjacent its open end comprising a relatively long charging, discharging and spatter intercepting portion, said portions being interconnected by an intermediate reversely curved portion through which liquid may freely flow but which will intercept boiling liquid thrown upwardly from a body of boiling liquid in the well portion.

2,288,066
MULTIPLE INDEX
George H. Bloom, New York, N. Y.
Application June 4, 1941, Serial No. 396,622
2 Claims. (Cl. 283—40)

1. A book having an index-register on the face of its front cover comprising a multiplicity of indicia in the form of parallel markings including lines which extend toward one edge of the cover, a corresponding set of markings disposed upon the front face of each page of the book and directly underlying those of the cover, the lines of said corresponding set going fully to the page edges so as to be visible when the book is closed, and means visibly dividing the closed book into a number of sections corresponding to the number of indicia, said means comprising further markings of much greater width than the lines and disposed one upon each page at the outer extremity of one of the lines of that page so that it appears as a short cross-line along the edge of said page when the book is closed.

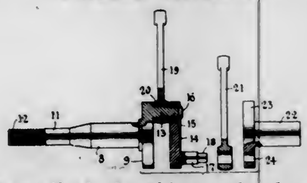


2,288,067
ICE CREAM FREEZER
Arthur H. Boileau, Cedar Rapids, Iowa, assignor to Cherry-Burrell Corporation, Wilmington, Del., a corporation
Original application January 26, 1939, Serial No. 252,884. Divided and this application December 26, 1939, Serial No. 310,892
8 Claims. (Cl. 62—114)



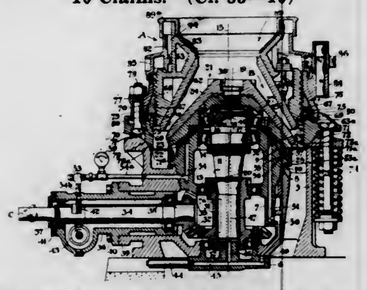
3. An ice cream freezer comprising, in combination, a freezing chamber defined by a shell forming the inner wall of an evaporator and gas separating means, an outer wall structure fabricated of sheet metal and defining the outer wall of said evaporator, said outer wall structure having a continuous, inwardly extending, helical flange fixed to said shell throughout its entire length, a continuous substantially helical refrigerant passage intermediate said shell and said outer wall, said passage being defined along its edges by adjacent elements of said helical flange, refrigerant supply and discharge conduits associated with the opposite ends of the passage within said evaporator and gas separating means, automatic valve means in said supply conduit for controlling the flow of refrigerant to said evaporator and gas separating means, said automatic valve means being responsive to the temperature of refrigerant in said discharge conduit, and heat exchange means associated with said refrigerant supply and discharge conduits for pre-cooling refrigerant supplied to said evaporator and gas separating means without substantially reducing the pressure of said refrigerant.

2,288,068
CRANKSHAFT MANUFACTURE
Charles Brebeck, Herkimer, N. Y.
Application July 19, 1940, Serial No. 346,419
2 Claims. (Cl. 29—6)



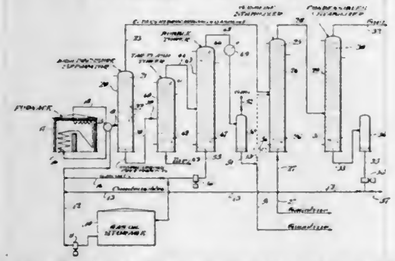
1. The method of making a plural part crank shaft with one-piece connecting rods assembled thereon, which consists in forming separate units in which at least one end of each crank pin is unattached, hardening the pins of said units, assembling a one-piece hardened connecting rod on each said pin, assembling a web to each said pin by a force fit to secure the rod thereon, submerging the cooperating hardened bearing surfaces of the pin and rod in a cooling liquid, and then welding the pin to the web while the cooperating hardened bearing surfaces of the pin and rod are subjected to the action of the cooling medium.

2,288,069
CRUSHER
Raymond E. Browning, Verdun, Quebec, Canada
Application June 30, 1939, Serial No. 282,227
10 Claims. (Cl. 83—10)



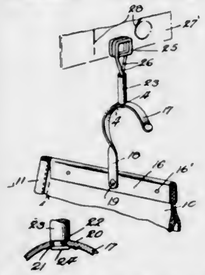
9. A crusher comprising a frame, an outer downwardly and outwardly flaring conical crushing member mounted on said frame so that its central axis is vertical, a crusher head shaft rotatably mounted in said frame and comprising a vertically extending lower portion whose central axis coincides with the central axis of said outer crushing member and an inclined upper portion about which an inner conical crushing member is concentrically mounted for free rotation, said inner crushing member presenting a downwardly and outwardly flaring crushing surface opposed to the downwardly and outwardly flaring surface of the outer member and the central axis of the upper portion of said crusher head shaft being obliquely inclined so that it intersects the vertical axis of the outer crushing member at a focal point located below the crushing zone formed by and between the opposing surface of the two crushing members, said crusher being further characterized in that the inner crushing member is supported for oscillating movement by spherically curved bearing surfaces whose centre of curvature coincides with said focal point, one of said bearing surfaces constituting a rigid part of said frame and the other of said bearing surfaces being rigid with the inner crushing member.

2,288,070
HYDROCARBON CONVERSION PROCESS
Morris T. Carpenter, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application August 8, 1939, Serial No. 288,988
5 Claims. (Cl. 196—9)



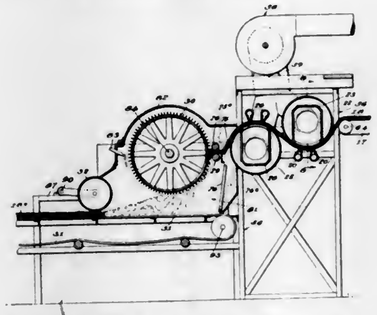
1. In a hydrocarbon conversion system wherein hydrocarbons are subjected to elevated temperatures and pressures for effecting said conversion, the method of fractionating the products of conversion which comprises introducing said products into a separator zone at a pressure within the approximate range of 325 to 350 pounds per square inch, maintaining a temperature at the top of said separator zone within the approximate range of 300 to 600° F., maintaining a temperature at the bottom of said separator zone within the approximate range of 750 to 900° F., said conditions in said separating zone effecting the separation of an overhead fraction containing substantially all of the C_1 to C_4 hydrocarbons along with substantial amounts of gasoline and a bottoms fraction containing substantially all of the tar and gas oil with substantial amounts of gasoline hydrocarbons, separately recovering gasoline and condensible hydrocarbons from said overhead fraction without substantial reduction of pressure, and separating the bottoms fraction into gasoline and gas oil at low pressure.

2,288,071
GARMENT SEPARATOR WITH SIZE INDICATOR
Morris Cohen, Washington, D. C.
Application December 17, 1940, Serial No. 370,549
2 Claims. (Cl. 40—11)



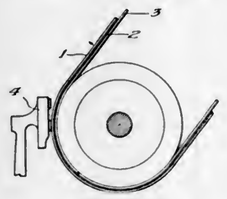
1. A garment separator comprising a body portion, a hook secured to the body portion to suspend the same from a pole and thereby arranged upon the pole, said hook being provided in its crown with an opening, a shank having an extension rotatably mounted within the opening of the crown and projecting beyond the opening so that the extension engages with the pole or the like when the hook is arranged upon the pole, and means carried by the shank for holding a card or the like.

2,288,072
METHOD AND APPARATUS FOR MAKING BONDED FIBROUS PRODUCTS
Howard W. Collins, Newark, Ohio, assignor, by mesne assignments, to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application June 22, 1938, Serial No. 215,144
10 Claims. (Cl. 154—27)



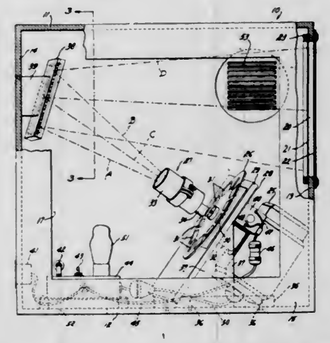
3. Apparatus for forming a strong, tough fibrous product which comprises means for producing a mat of glass wool, a perforated rotatable drum over one major surface of said mat passes, means for blowing air laden with binder dust through said mat and into said drum, means associated with said drum for exhausting said air, a second perforated rotatable drum over which the opposite major surface of said mat passes, means for blowing air laden with binder dust through said mat and into said second drum in the direction opposite the direction of the first dust laden air, and means associated with said second drum for exhausting the air passing thereinto.

2,288,073
PRINTING PLATE HAVING A WATER REPELLENT SURFACE AND METHOD OF PREPARING SAME
Herbert L. Davis and Edward A. Reineck, Appleton, Wis., assignors to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia
Application March 30, 1939, Serial No. 264,948
6 Claims. (Cl. 41—41.5)



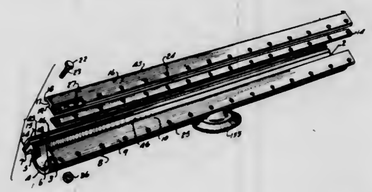
1. The method of preparing a printing plate adapted for use as a master copy sheet in reproducing copies of images formed of aqueous-inks which comprises placing a flexible master sheet having a water repellent greasy surface against a transfer sheet having a coating of a water and grease compatible material, the greasy surface of the master sheet being in contact with the coating of the transfer sheet, and impressing the matter to be copied on the exposed surface of the master sheet whereby ink receptive portions which may be inked and reinked with an aqueous ink are formed on the other side of the sheet.

2,288,074
PHOTOGRAPHIC PROJECTION APPARATUS
Allan V. Ditty, Detroit, and Arthur J. Bradford, Grosse Pointe Park, Mich., assignors to Motion Picture Engineering Co., Detroit, Mich., a corporation of Michigan
Application February 8, 1940, Serial No. 317,804
1 Claim. (Cl. 88—27)



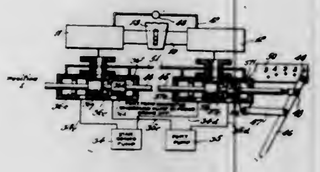
Photographic projecting apparatus comprising a casing having front, side, bottom and rear walls, a pair of spaced brackets secured to the bottom wall, a base member mounted in the casing including a plate-like support mounted in the casing attached to said brackets at a compound angle, a light projector mounted on one side of said base member, a rotatable picture disk mounted on the opposite side of said base member, a lens tube bracket secured to the base member projecting forwardly and upwardly to be positioned in front of the picture disk and a lens carrying tube supported by said bracket whereby light rays may pass through an opening in the base-like member and through the picture disk to impose an image of said picture on one of the walls of the cabinet.

2,288,075
ROCK DRILL
Milon Gay Edwards and Frank M. McKinley, Joplin, Mo.
Application September 18, 1939, Serial No. 295,356
7 Claims. (Cl. 255—45)



1. In an apparatus of the character described, a guide shell having downwardly diverging ways provided with bearing surfaces located in inclined planes intersecting with each other at a point above the shell, a drill cylinder having diverging guide wings slidably supported on said ways, means having surfaces contacting the guide wings in planes parallel with said bearing surfaces of the ways for retaining said guide wings in sliding contact with said ways, and actuating means for moving the drill cylinder on the guide shell.

2,288,076
STEERING GEAR FOR SHIPS
Ralph Erling, Cranford, N. J., assignor to Lidgerwood Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application September 2, 1938, Serial No. 228,121
3 Claims. (Cl. 60—52)



1. In a steering gear, a rudder crosshead, fluid-pressure devices each connected to said crosshead and operable respectively to impart movement to said crosshead in opposite directions, a starboard pump and a port pump each of the reversible delivery type and connected to and each operable independently of the other to supply fluid under pressure to said devices selectively to impart movement one way or the other to said crosshead, each of said pumps being of the variable-stroke type, a first valve and a second valve operable jointly to control operating action of said gear, each of said pumps having a direct connection from one side thereof to said first valve, each of said pumps having a direct connection from the other side thereof to said second valve, and means common with respect to said valves for operating the same simultaneously and in unison, said valves having a given operating position in which said port pump is effective, and said starboard pump is by-passed and shut off from said devices, said valves having another operating position in which both pumps are shut off from said devices and in which only said starboard pump is by-passed and in which the fluid is trapped in said devices, said valves having still another position in which both pumps are by-passed and shut off from said devices and in which the fluid is trapped in said devices, said valves having still another position in which both pumps are shut off from said devices and in which only said port pump is by-passed and in which the fluid is trapped in said devices, said valves having still another position in which said starboard pump is effective and said port pump is by-passed and shut off from said devices.

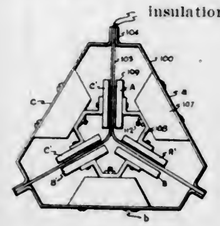
2,288,077
SPRING CONTACT DEVICE FOR WINDOW SASHES
Willis W. Fabry, South Pasadena, Calif.
Application July 4, 1939, Serial No. 282,766
1 Claim. (Cl. 292—17)

In a device of the character described, a base plate having provisions for attaching it to the edge of a window sash, and a pair of bowed springs extending longitudinally of the plate, each of said springs having a straight portion at one end, each of said straight portions being secured to the plate, said plate having a pair of spaced ridges extending substantially parallel with the longitudinal edges of the plate and defining a groove between the springs, each of said ridges engaging the edge of one of said straight portions,



whereby the springs are maintained substantially parallel with the ridges.

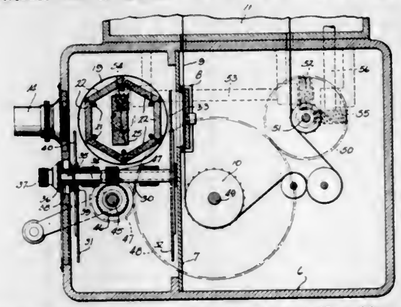
2,288,078
ELECTRICAL DISTRIBUTION SYSTEM
Lawrence E. Fisher and Alva A. Togesen, Detroit, Mich., assignors to Bulldog Electric Products Company, Detroit, Mich., a corporation of West Virginia
Application July 9, 1941, Serial No. 401,680
8 Claims. (Cl. 171—97)



1. In a polyphase distribution system, a source of polyphase alternating current, a plurality of wide thin bars or conductors connected thereto and arranged in remotely spaced definite and distinct pairs, each pair comprising two evenly and closely spaced conductors of different phases, arranged wide face near wide face, each phase comprising two conductors of different pairs, the relative arrangement of and the spacing between the two conductors of a pair being small enough to permit the currents in the conductors of the pair to neutralize their relative magnetic effects but the spacing being large enough to provide adequate relative insulated clearance, between the conductors of the pair, the spacing between the pairs being large enough to provide adequate heat dissipation from the pairs and satisfactory access between the pairs for tools and hands and fasteners used in joining and supporting the conductors, the spacing between pairs being considerably greater than the spacing between conductors of a pair, the two conductors of each phase being arranged adjacent, with thin edge near thin edge, and spaced angularly less than 180° to form a V, there being three phases and three pairs of conductors and thus three such V's, with the three V's interspaced to form a Y arrangement, and a triangular casing surrounding the conductors and having wide thin heat radiating surfaces close to and parallel to the wide surfaces of the conductors.

2,288,079
MOTION PICTURE APPARATUS
Charles L. Fitz, Three Lakes, Wis., assignor of one-third to F. H. Dobbs and one-third to F. C. Cheatham, both of Three Lakes, Wis.
Application July 10, 1939, Serial No. 283,599
8 Claims. (Cl. 88—16.8)

3. In an optical system, the combination with a primary lens and means for the continuous, non-intermittent advance of a film planiformly in spaced relation to the lens, of a hollow prism comprising opposed parallel flats mounted for rotation on a transverse axis lying across the



shortest line between the lens and the film, and an optical corrective member disposed within the prism whereby light passing between the lens and film must traverse two opposed flats of said prism and the intervening optical corrective member.

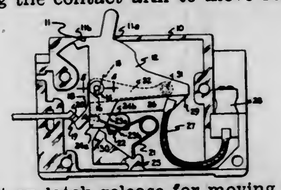
2,288,080
METHOD OF PREPARING DRYING STICKS FOR SAUSAGE CASINGS
Morris Forman, Brooklyn, N. Y.
Application April 17, 1939, Serial No. 268,329
2 Claims. (Cl. 117—59)



1. In a method of preparing a stick for use in a process of drying sausage casings in a heated drying chamber, the steps of selecting an elongated stick of porous wood adapted to receive thereover the casing to be dried, soaking the stick in a bath of hot brine to cleanse the pores and crevices of the stick in the region of the outer lateral portion thereof, immersing the cleansed stick in a hot bath of liquid paraffin for a period of time sufficient to enable said pores and crevices to absorb a portion of the paraffin, removing the stick from the paraffin bath and supporting it vertically in the atmosphere to permit the excess liquid paraffin on the outer surface to drain off and the absorbed paraffin within the stick to solidify, and coating the lateral surface of the stick with an outer layer of paraffin to coact with the paraffin embedded in the stick to prevent the impregnation thereof with vapors exuded from the casing under the influence of the heat in the drying chamber, and to prevent the dried casing from adhering to the stick whereby it may readily be removed.

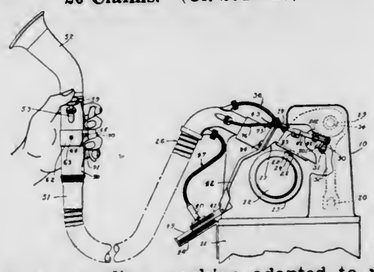
2,288,081
CIRCUIT BREAKER
William H. Frank, Detroit, Mich., assignor to Bulldog Electric Products Company, Detroit, Mich., a corporation of West Virginia
Application November 8, 1941, Serial No. 418,419
16 Claims. (Cl. 200—116)

1. In a circuit breaker, a manually actuable contact support mounted for rotation about an axis, a contact arm pivotally mounted thereon to rotate with respect thereto about an axis of rotation, and having at a contact point thereof a movable contact portion, a stationary contact to be engaged thereby, means releasably interlatching the support and contact arm at a latching point, the axes being between the arm contact point and the interlatch point, and a single spring engaging the contact arm and the support simultaneously for biasing and indexing the support into and in its extreme positions, in one of which the contact arm contact is biased against the stationary contact for contact pressure, the spring also biasing the contact arm to move relative to



the support on latch release for moving the contact thereof away from the stationary contact, the aforesaid axes being so spaced relative to each other that the arm cannot rock on either of the two pivots, selectively, the spring, when the parts are in closed circuit position, and interlatched, biasing the arm to its closed circuit position, and at the same time biasing the support to its closed circuit position, and when the latch releases, while still biasing the support to its closed circuit position, biasing the arm out of its closed circuit position.

2,288,082
DICTATION MACHINE CONTROL MEANS
Eugene P. Gailmard, Chicago, and Roger C. Johnson, Moline, Ill.
Division of application November 20, 1936, Serial No. 111,829, now Patent No. 2,265,034, dated December 2, 1941. Continuation of application September 3, 1938, Serial No. 228,410. Divided and this application May 10, 1941, Serial No. 392,884
20 Claims. (Cl. 274—17)

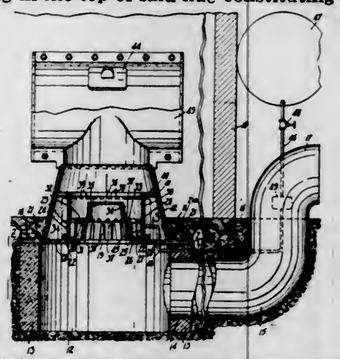


1. In a recording machine adapted to make sound recordings on a record and having a voice tube and means to receive a pad of index slips, the combination of mechanism on said machine for supporting the uppermost slip of said pad in separated relation with respect to the other slips thereof and for perforating said uppermost slip to form an indexed control record, and means on said voice tube in a position to be actuated by the speaker talking into said voice tube for operating said perforating mechanism.

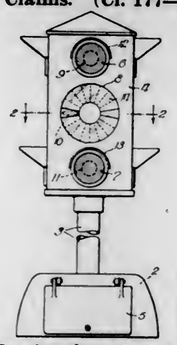
2,288,083
OIL BURNING APPARATUS
Percy Gainey, Linden, N. C.
Application March 20, 1940, Serial No. 324,953
6 Claims. (Cl. 158—91)

1. An oil burner unit comprising an annular

body having a central opening and an oil cup surrounding said opening, a barrel extending above said cup and being provided with a series of secondary air inlet openings, a tubular flue extending upwardly from the center of said body, said flue being open at the top and bottom thereof and communicating with said central opening, the opening in the top of said flue constituting a supplemental secondary air inlet opening, said body being provided with a series of vertical primary air inlet openings arranged between said cup and said central opening, and said flue being provided with a series of primary air inlet openings communicating with said central opening and arranged to deliver air at an angle to said vertical openings.



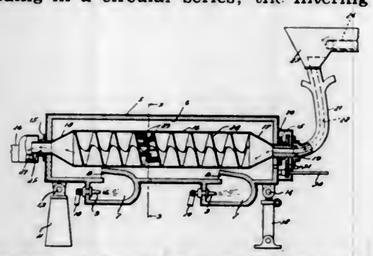
2,288,084
SIGNALING APPARATUS
Johannes Gandl, Chicago, Ill.
Application September 2, 1938, Serial No. 228,175
13 Claims. (Cl. 177—337)



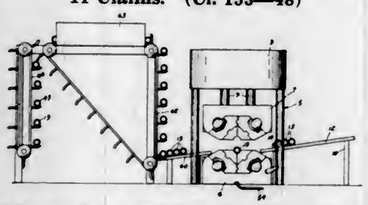
1. In a traffic signaling device, a round transparent panel having red and green sections separated by yellow sections, the yellow sections being equal and disposed 180° apart, the red and green sections also being equal and having an angular width which is an exact multiple of the yellow sections, a light behind said panel, a shaft for rotating said light, and means for intermittently rotating said shaft in steps, the angular distance moved in each step being exactly equal to the angular width of said yellow sections.

2,288,085
ROASTER
James Gea, Joliet, Ill., assignor of one-fourth to Palmer Di Giulio and one-fourth to Fiore Di Giulio, both of Joliet, Ill.
Application December 3, 1940, Serial No. 368,410
1 Claim. (Cl. 34—58)

In an apparatus for processing raw material a revoluble drum having a helical flange fixedly mounted internally thereof and extending substantially from one end to the opposite end of the drum to provide a spiral course for raw material passing through the drum, and said helical flange, intermediate the ends thereof having opposed portions provided with filtering elements extending in a circular series; the filtering elements associated with each of the said opposed portions of the flanges terminating short of the next adjacent and opposed portion and in staggered overlapping relation with reference to the filtering elements associated with the other of said opposed portions and said filtering elements being disposed in the path of material traveling through the drum.



2,288,086
APPARATUS FOR FORMING AXLE HOUSINGS
Joseph H. Gettig and George Spatta, Buchanan, Mich., assignors to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application June 29, 1940, Serial No. 343,120
11 Claims. (Cl. 153—48)

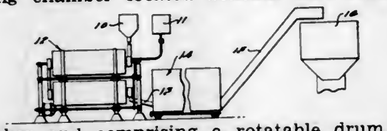


5. Means for straightening the arms of a tubular axle housing comprising longitudinally spaced cooperating dies for receiving and swaging said arms, means rotatably mounted intermediate said dies for engaging the center of said blank to rotate it relative to said dies between successive swaging thereof, means for actuating said blank rotating means, and means in said rotating means operable to discharge said blank from said dies.

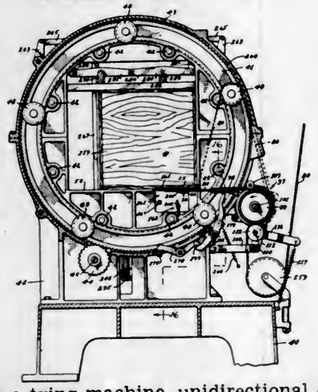
10. In an apparatus for forming an axle housing, a pair of longitudinally spaced upper and lower die members for engaging the arms of said blank, arcuate trackways intermediate the lower die members, a rocking member mounted in said trackways for movement in a transverse arc, and means in said rocking member engageable with the center portion of said blank for rocking said blank therewith whereby said blank may be rocked into different angular positions intermediate successive die operations.

2,288,087
APPARATUS FOR FORMING DUSTLESS CARBON BLACK
Hilding Hanson, Charleston, W. Va., and Robert W. Skoog, Borger, Tex., assignors to United Carbon Company, Inc., Charleston, W. Va., a corporation of Delaware
Application July 29, 1940, Serial No. 348,322
2 Claims. (Cl. 259—65)

1. An apparatus for the manufacture of dustless carbon black and comprising a mixing chamber for admixing predetermined amounts of dry carbon black and a wetting agent to form a wetted friable mass, said mixing chamber comprising a rotatable drum having a rotatable shaft extending lengthwise therethrough, a plurality of radial pins on said drum extending inwardly thereof toward said shaft, a plurality of radial arms on said shaft and extending outwardly thereof toward said drum, and a rotary agglomerating chamber located beneath said mixing chamber and comprising a rotatable drum, a stationary shaft extending lengthwise of said last named drum, a plurality of radially extending pins secured to said drum and projecting inwardly toward the center thereof, a single row of pins secured to and positioned longitudinally along said stationary shaft and projecting outward in one direction only toward said drum, the pins on said drum and the single row of pins on said stationary shaft lying in alternating courses.



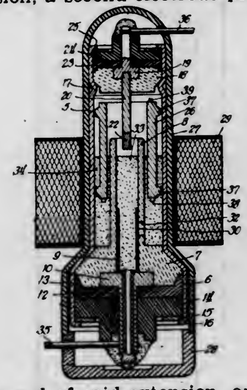
2,288,088
TYING MACHINE
Leo M. Harvey, Los Angeles, Calif., assignor to The Gerrard Company, Incorporated, Chicago, Ill., a corporation of Delaware
Application September 4, 1935, Serial No. 39,192
50 Claims. (Cl. 100—31)



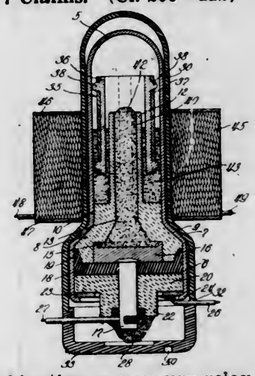
17. In a tying machine, unidirectional operating means turning at all times in but one direction for looping a band around an article to be tied, which looping means is movable in the same direction during each successive looping operation, and means for tensioning the band during a predetermined portion only of the looping operation.

2,288,089
MERCURY RELAY
Uno C. Hedin, Elkhart, Ind., assignor to Bucklen-Bear Laboratories, Inc., Elkhart, Ind., a corporation of Indiana
Application May 6, 1940, Serial No. 333,533
24 Claims. (Cl. 200—97)

3. A mercury relay comprising a vertical metal envelope having a ceramic insert in the lower end thereof provided with an axially upwardly directed tubular extension open at the upper end thereof, an electrode in the base of said extension having a thin metallic sleeve portion lining the inner wall of said extension for a portion of its axial extent, a body of mercury surrounding the extension, a second electrode projecting into the upper end of said extension, and means for displacing mercury from around said extension over the upper end thereof to effect contact between said electrodes within said extension.



2,288,090
MERCURY RELAY
Uno C. Hedin, Elkhart, Ind., assignor to Bucklen-Bear Laboratories, Inc., Elkhart, Ind., a corporation of Indiana
Application September 21, 1940, Serial No. 357,768
7 Claims. (Cl. 200—112)



1. In combination, a mercury relay switch including a tubular body portion and an enlarged end portion, a coil adapted to receive said body portion, and a clamp for securing said coil and switch to a supporting surface comprising a U-shaped portion receiving said coil between the legs thereof and having apertures through which said tubular body extends, and a bolt passing through said leg portions and having means at one end engaging the enlarged end of said switch to hold it against axial and rotational movement relative to said clamp.

2,288,091
PROCESS FOR THE RECOVERY OF NITRIC OXIDE FROM GASEOUS MIXTURES
Kenneth H. Hoover, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application August 2, 1940, Serial No. 350,150
5 Claims. (Cl. 23—161)

4. In a process for recovering nitric oxide by

oxidation of the nitric oxide and recovery of the resulting nitrogen dioxide from gaseous reaction products of the vapor phase nitration of a paraffin hydrocarbon, said products containing unreacted hydrocarbon and nitric oxide, wherein the hydrocarbon liquefies under the conditions employed for so oxidizing the nitric oxide, thereby tending to form an explosive gaseous mixture due to a decrease in the gaseous hydrocarbon content of the mixture, the improvement which comprises avoiding the formation of the explosive mixture by the removal of the liquefiable hydrocarbon and replacing the same with a diluent gas that is normally gaseous at the reaction temperature in such amounts that the formation of an explosive mixture is avoided on subsequent addition of sufficient oxygen to oxidize said nitric oxide to nitrogen dioxide, adding sufficient oxygen in said mixture to oxidize said nitric oxide, but insufficient to form a flammable mixture, effecting reaction between said oxygen and said nitric oxide, recovering nitrogen dioxide from the resulting gaseous mixture and maintaining the other constituents of the gaseous mixture in the gaseous phase throughout said oxidation and recovery steps.

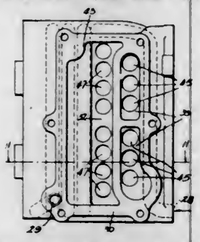
2,288,092

DIE-CAST CYLINDER BLOCK

Finn T. Irgens, Wauwatosa, Wis., assignor to Outboard Marine & Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Original application August 12, 1939, Serial No. 289,746. Divided and this application June 7, 1941, Serial No. 397,019

7 Claims. (Cl. 123—173)



4. A cylinder comprising a sleeve, a water tube extending circuitously about the sleeve adjacent one end thereof and free of other portions of the sleeve, a casting in which the sleeve and tube are embedded and bonded, said casting being extended across the sleeve at said end to provide a cylinder head closure and being provided adjacent the portions of said sleeve not encircled by said tube with a transfer passage opening to the opposite end of the casting and an inlet passage spaced on the opposite side of the sleeve from said transfer passage and for which said casting is provided with a removable closure, the sleeve and casting having registering port means affording communication between the respective passages and the interior of the sleeve, the side surfaces of the respective port means opening into the respective passages being aligned with each other.

2,288,093

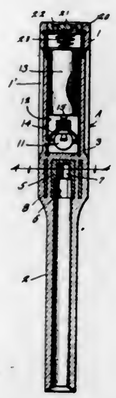
COMBINED TOOL HANDLE AND LAMP

Norbert F. A. Kaffenberger and Walter Sheffer, Middletown, Ohio

Application June 19, 1941, Serial No. 398,846

1 Claim. (Cl. 240—6.46)

A device of the class described comprising a tubular holder of translucent material including a hollow hand grip portion, and a reduced tool housing portion extending from one end of the hand grip portion, a transverse partition in said hand grip portion adjacent said end thereof dividing the interior of the holder into a chamber in the hand grip portion and an axial bore extending from said partition through said tool housing portion, illuminating means in said



chamber including an electric light facing said partition, and a tool turning socket in said end of the hand grip portion at the inner end of said bore and abutting said partition, said socket having a longitudinally slotted side wall structure through which the translucent material extends to anchor the socket and to permit light rays passing through the partition to pass through the socket to the tool housing portion and the bore thereof.

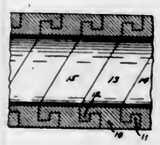
2,288,094

METHOD OF MAKING TUBING

John Karmazin, Grosse Ile, Mich., assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application January 28, 1939, Serial No. 253,392

1 Claim. (Cl. 113—35)



The method of manufacturing tubing having substantially smooth inner and outer surfaces which comprises forming a metal strip with opposed complementary edges reduced so that the sum of the thickness of the two edges substantially equals the thickness of the main part of the strip, and having complementary ridges and grooves on said edges, forming one ridge smaller than its cooperating groove to provide a recess when said complementary edges are overlapped, spirally winding said strip to overlap said complementary edges and simultaneously placing bonding material into said recess, and thereafter subjecting said assembly to a high temperature so as to bond said overlapping edges.

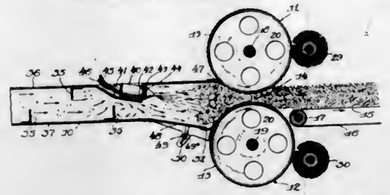
2,288,095

METHOD AND APPARATUS FOR PRODUCING BOUND BATTS

Harvey B. Lindsay, Evanston, and Norman R. Easter, Park Ridge, Ill., assignors to Dry-Zero Corporation, Chicago, Ill., a corporation of Illinois

Application May 23, 1939, Serial No. 275,208

8 Claims. (Cl. 154—27)



1. The method of forming a bound batt from fibers having a relatively high wet-resistant surface, which comprises blowing loose fibers through an air conduit, spraying an emulsified liquid adhesive into the conduit in the form of a fine mist so as to deposit individual minute globules on localized surface areas of the fibers without substantial penetration thereof, and passing the body of fibers between opposed perforated carrier surfaces in the area of said mist spray.

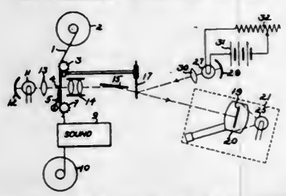
2,288,096

TELEVISION FILM PROJECTOR

Harry R. Lubcke, Los Angeles, Willet H. Brown, Santa Anita, and William S. Klein, Los Angeles, Calif., assignors to Don Lee Broadcasting System, Los Angeles, Calif., a corporation of California

Application July 27, 1940, Serial No. 347,906

17 Claims. (Cl. 178—7.2)



1. The method of television transmission from motion picture film with a pickup device having a photosensitive screen of the charge-storing type which comprises the steps of progressing said film intermittently, projecting stationary images of successive frames of said film onto said screen during substantially the whole intervals between such progressions, and illuminating said screen during the periods of movement of said film with substantially the same quantity of light as comprises said images but having different distribution over said screen than the light projected thereon during the image projecting intervals.

2,288,097

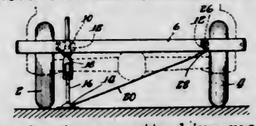
LIFTING JACK

Millard B. Lucker, St. Joseph, Mich., assignor to Auto Specialties Manufacturing Company, St. Joseph, Mich., a corporation of Michigan

Application October 25, 1939, Serial No. 301,245

3 Claims. (Cl. 254—133)

2. A jack base for a lifting jack having means adapted to receive an elongated vertically extending portion of the jack and wherein said vertically extending portion is provided with a lifting member to engage the part to be lifted, said base having an opening therein, and a flexible cable connected to said opening, the opposite end



of the cable having an attaching means adapted detachably to engage a remote part of the automobile whereby to hold the cable taut when the base is in load supporting position.

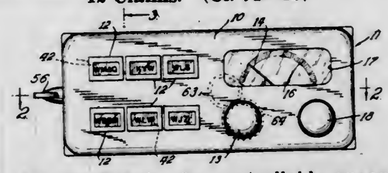
2,288,098

CONTROL DEVICE FOR CONTROLLABLE APPARATUS

Richard C. Marholz and Alexander W. Plensler, Chicago, Ill., assignors to Belmont Radio Corporation, Chicago, Ill., a corporation of Illinois

Application December 12, 1938, Serial No. 245,078

12 Claims. (Cl. 74—10)



1. A control device for controllable apparatus, including frame means, a rotary shaft mounted in said frame means, an actuator supported in said frame means for linear movement toward said rotary shaft, and means on the rotary shaft engageable by said actuator for transposing linear movement of the actuator into rotary movement of the shaft, said means comprising a pair of cams, with the cam surfaces thereof spaced apart axially, but with said cams operatively connected and rigid with respect to one another and normally retained on said shaft against movement relative thereto.

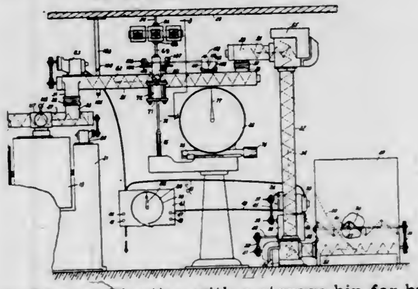
2,288,099

CONTINUOUS METERING CONVEYER FOR BULK MATERIAL

Erwin S. Mason, Norwood, Ohio, assignor to The J. H. Day Company, Cincinnati, Ohio, a corporation of Ohio

Application October 18, 1939, Serial No. 300,049

18 Claims. (Cl. 198—39)



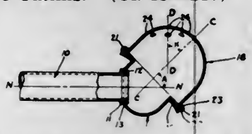
1. The combination with a storage bin for bulk material and a distributing device, of a conveyer unit disposed between said storage bin and distributing device including means for weighing the material as it is conveyed to said distributing device, said weighing means comprising a hori-

zontal conveyer including independent drive means, a weighing scale member, means pivotally suspending said horizontal conveyer, at substantially its center of gravity, from said scale member whereby to impart to the horizontal conveyer the characteristics of tiltability of its ends in opposite directions vertically, and full bodily suspension from the scale member, said horizontal conveyer having inlet and outlet ports disposed at opposite ends thereof, means extending between said storage bin and the inlet port of said horizontal conveyer for transferring the contents of said storage bin to said horizontal conveyer, said outlet port being in communication with said distributing device, the constancy of the weight of material being conveyed through said horizontal conveyer at any instant being indicated on said scale and means responsive to the tilting movements of the horizontal conveyer, for signalling the presence of inconsistencies in the feed of material advanced by the transferring means aforesaid.

2,288,100
CHEWING GUM BASE
George James Manson, Brantford, Ontario, Canada, assignor to Shawinigan Chemicals, Limited, Montreal, Quebec, Canada
No Drawing. Application September 18, 1939, Serial No. 295,513. In Canada August 3, 1939
1 Claim. (Cl. 99—135)

A chewing gum base comprising a tasteless and odourless polyvinyl ester; a plasticiser compatible with polyvinyl ester, non-toxic and relatively insoluble in water; a mineral filler in the form of an inert, smooth, tasteless, non-toxic, odourless, finely divided mineral material; and a non-toxic oleaginous substance free from unpleasant taste or odour and adapted to prevent separation between the filler and ester.

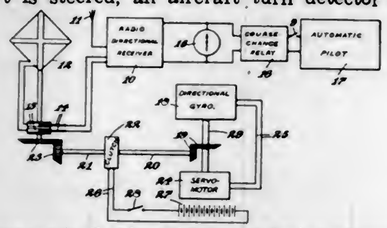
2,288,101
ADJUSTABLE DUSTER NOZZLE
John Mayer, Hastings, Minn., assignor to H. D. Hudson Manufacturing Company, Chicago, Ill., a corporation of Minnesota
Application June 15, 1940, Serial No. 340,742
5 Claims. (Cl. 43—147)



1. A duster appliance comprising a dust delivery tube, a hollow sheet metal cup piece secured to the sheet metal tube in a position such that the edge of the cup lies in a plane at an angle of less than ninety degrees to the axis of the tube, and a cap for the cup attached to the edge for rotation thereon, said cap having an opening positioned for discharging dust at an angle to axis of rotation of said cap.

2,288,102
RADIO DIRECTION FINDING APPARATUS
Frederick William Meredith, London, England, assignor to S. Smith & Sons (Motor Accessories) Limited, London, England, a British company
Application March 1, 1940, Serial No. 321,766
In Great Britain March 31, 1939
4 Claims. (Cl. 172—282)

1. Control apparatus for use in aircraft comprising a directional radio receiving apparatus, means operated by said receiving apparatus to give a directional indication by which the aircraft is steered, an aircraft turn detector and



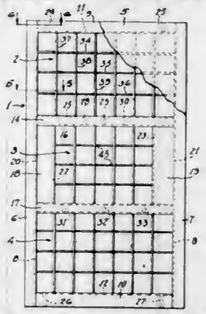
means controlled by said turn detector automatically altering the directional indication by an amount corresponding approximately to 0.7 of the angle through which the craft turns and in the opposite sense.

2,288,103
MATTRESS CONSTRUCTION
David Micon, Los Angeles, Calif.
Application July 28, 1939, Serial No. 287,031
4 Claims. (Cl. 5—356)



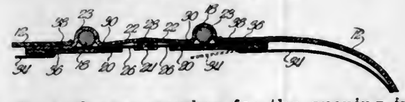
1. A device of the type described comprising padding material having a cover fabric in overlying relation thereto and anchoring means in underlying relation thereto, an anchoring element incorporated in said cover fabric, and a tie cord interconnecting said anchoring means and said anchoring element, in which said anchoring element comprises: a textile loop woven into and forming an integral part of said cover and extending from the underside thereof, the two sides of said loop entering said cover fabric at points so closely spaced to each other that there is negligible bulging of said cover between said points in response to strain on said loop.

2,288,104
VENTILATED HOLLOW PANEL
Michel Pasquier, Portland, Oreg., assignor to M and M Wood Working Company, Portland, Oreg., a corporation of Oregon
Application February 12, 1940, Serial No. 318,459
8 Claims. (Cl. 20—35)



3. A hollow panel comprising longitudinally grooved stiles, longitudinally grooved rails having tenons in the ends thereof engaging the grooves in said stiles so as to form a frame, intersecting core strips having tenons on the ends thereof engaging said grooves, said strips being identically slotted at their points of intersection, a portion of each slot providing ventilating communication through said strips, and apertures in said frame to provide continued ventilating communication with the ambient atmosphere.

2,288,105
LUGGAGE CLOSURE CONSTRUCTION
Joseph H. Plotkin, Chicago, Ill., assignor to Oshkosh Trunks and Luggage, a corporation of Wisconsin
Application April 22, 1940, Serial No. 330,999
2 Claims. (Cl. 190—48)

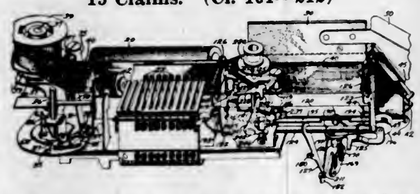


1. In a closure member for the opening in a piece of hand luggage, a pair of strips placed face to face and extending along the margin of the piece of luggage adjacent the opening, reinforcing means interposed between said strips, stitching uniting said strips with the margin of said piece of luggage on one side of said reinforcing means, and a webbing tape with fastener elements thereon, one edge of said tape being inserted between said strips and retained therebetween by stitching through said strips on the side of said reinforcing means opposite said first mentioned stitching and adjacent said fastener elements, the outer one of said strips projecting from the line of said last-mentioned stitching to the center line of the fastener elements.

2,288,106
VISCOSE SPINNING SOLUTION
Elmar Profft, Berlin-Lichterfelde, Germany, assignor to North American Rayon Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application August 3, 1939, Serial No. 288,170. In Germany August 6, 1938
9 Claims. (Cl. 106—165)

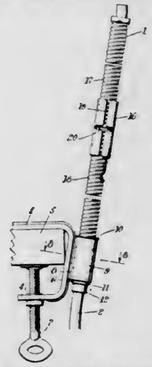
1. A spinning solution for the manufacture of artificial silk comprising a viscose solution and a disulphide derived from a petroleum fraction having a boiling point above 120° C., said disulphide forming connective and intermeshing bridging bonds between the principal valence chains of the cellulose contained in said viscose solution.

2,288,107
PRINTING MACHINE
Ernest Racz, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a corporation of Michigan
Application November 26, 1940, Serial No. 367,234
15 Claims. (Cl. 101—212)



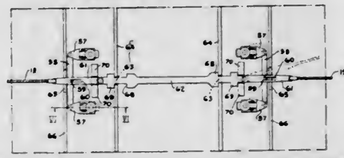
1. In a machine of the class specified, having driving means, a platen, a carrier, means supporting said carrier for movement parallel to and toward and away from said platen, a printing cylinder, means rotatably supporting said printing cylinder on said carrier on an axis substantially parallel to the face of said platen and transverse to the length thereof, spring means urging said carrier toward said platen, latch means for holding said carrier away from said platen, means for operating said latching means to permit movement of said carrier toward said platen, means operated from said driving means for moving said carrier in a printing and in a return stroke lengthwise of said platen, and means operable from said driving means while said carrier is close to the starting point of said return stroke to return said carrier to latched position away from said platen.

2,288,108
ELECTRICAL CONDUCTOR SUPPORT
Carl Roll, Union, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application March 15, 1941, Serial No. 383,473
1 Claim. (Cl. 287—78)



In an electrical conductor support having a resiliently deflectible staff member composed of generally cylindrical separable sections formed from helical-wound wire, means to connect said sections comprising a tubular connecting sleeve formed with a longitudinal dividing slit and a transverse slot intersecting said slit to provide at the ends of said sleeve independently-yielding cylindrical terminal portions having lengths greater than and unsprung internal diameters less than the external diameters of said separable sections.

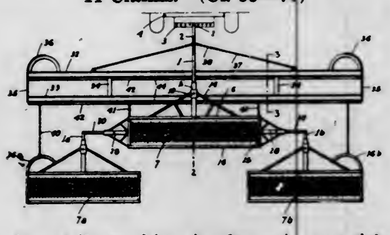
2,288,109
MATERIAL HANDLING APPARATUS
John D. Russell, Sugarcreek Township, Venango County, and Henry Thies, Franklin, Pa., assignors to Joy Manufacturing Company, a corporation of Pennsylvania
Application March 20, 1940, Serial No. 325,002
6 Claims. (Cl. 280—99)



1. The combination in a mine car having a wheeled undercarriage of a draft bar slidably mounted on the bottom of said car, a draft bar section pivoted to each end of said draft bar, a linkage mechanism for connecting each pivoted draft bar section to the wheels at the respective

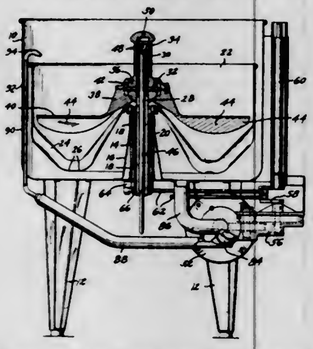
end of the car, means connected to said draft bar sections for pulling said car in either direction, and means associated with said draft bar sections for locking the draft bar section on the trailing wheels in position against lateral movement.

2,288,110
EARTH WORKING IMPLEMENT
Theodore G. Schmeiser, Fresno, Calif.
Application April 12, 1941, Serial No. 388,257
11 Claims. (Cl. 55—77)



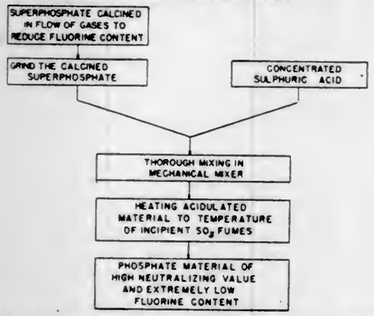
1. An earth working implement comprising a roller unit including a frame, a tubular member projecting forwardly from the frame, means releasably securing said member in connection with the frame, a sleeve surrounding said member adjacent its forward end, diagonal brace elements between the frame and sleeve, a tubular tongue telescoped into the tubular member, and releasable securing means between said tongue and said tubular member.

2,288,111
WASHING MACHINE
Don O. Scott, Birmingham, Mich., assignor to Bendix Home Appliances, Inc., South Bend, Ind., a corporation of Delaware
Application April 15, 1939, Serial No. 267,954
8 Claims. (Cl. 68—38)



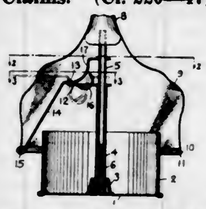
2. A cleaning machine comprising a container to receive material to be cleaned and mounted with its axis substantially vertical, a post extending vertically through the container, a substantially horizontal scrubber plate mounted on said post and overlying the material, a movable connection enabling the scrubber plate to move vertically and to tilt upon its vertical axis and to rest on the material regardless of the angle of the surface thereof, interconnected mechanism for oscillating the container and the scrubber plate relative to each other and for periodically raising and lowering the scrubber plate from and back upon the material, such mechanism including a device for oscillating the container and the scrubber plate a plurality of times for each raising and lowering of the scrubber plate.

2,288,112
PROCESS OF TREATING SUPERPHOSPHATES
Mark Shoeld, Baltimore, Md., assignor to The Davison Chemical Corporation, Baltimore, Md.
Application February 12, 1940, Serial No. 318,595
6 Claims. (Cl. 71—40)



1. A process of preparing an acidic, non-hygroscopic, free-flowing superphosphate having a low fluorine content and a high neutralizing value comprising the steps of calcining a superphosphate in the presence of heated gas currents between 600 to 800° C., grinding the calcined superphosphate, reacidulating the calcined superphosphate with a substantial amount of concentrated sulphuric acid and thereafter heating the reacidulated calcined superphosphate for a period of time and at a temperature sufficient to reduce the fluorine content to about 0.015%.

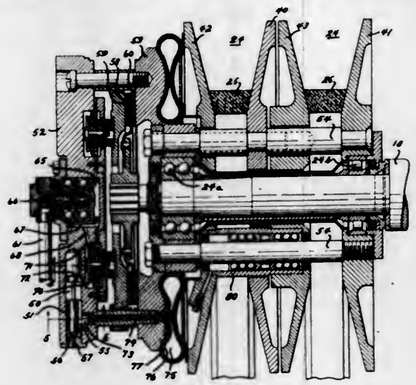
2,288,113
CONTAINER
Alexander G. Smirnoff, New York, N. Y.
Application January 22, 1941, Serial No. 375,372
7 Claims. (Cl. 220—47)



1. A container comprising a base adapted to support removable articles, a post supported on the base, a member slidably supported on the post, means to urge the member upward, a hood supported on the sliding member, the lower portion of the hood loosely enclosing the base, and means to raise one side of the hood, by depressing the sliding member with the upper portion of the hood.

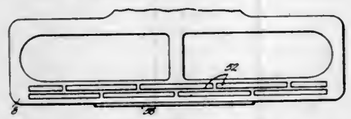
2,288,114
REFRIGERATING APPARATUS
Harry F. Smith, Lexington, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application November 25, 1938, Serial No. 242,212
1 Claim. (Cl. 74—230.17)

A variable ratio drive including a driver member, a driven member, means whereby said driver member drives said driven member, means for varying the speed of said driven member with respect to the speed of said driver member, pneumatic means for controlling said last named means, means for supplying fluid under pressure to said pneumatic means, a radially extending



bore in one of said members, a plunger slidably mounted in said bore and adapted to slide outwardly in response to centrifugal force, spring means biasing said plunger inwardly, and means whereby movement of said plunger in said bore varies the operation of said pneumatic means so as to vary the speed of said driven member.

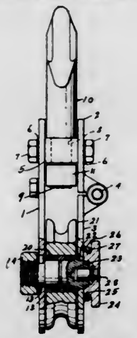
2,288,115
VACUUM SWEEPER
Cecil S. Soldanels, Kansas City, Mo.
Application March 12, 1941, Serial No. 382,907
3 Claims. (Cl. 15—4)



1. In a vacuum sweeper having a mouth; a bracket along one edge of the mouth; and a series of permanent magnets carried by the bracket, said magnets being in the form of bars arranged in at least two parallel rows with the ends of the bars of one row disposed near the medial transverse portions of the bars in the adjoining row.

2,288,116
SNATCH BLOCK
Crawford K. Stillwagon, Houston, Tex.
Application November 18, 1941, Serial No. 419,566
2 Claims. (Cl. 254—193)

2. A snatch block comprising a frame composed of approximately parallel side plates one of which is formed of a fixed section and a hinged section and the other being unitary, means for maintaining the unitary plate and the fixed section together and in spaced relation, a sheave spindle one end of which is secured to the unitary plate and the other end of which is extended through the hinged section and is provided with an internal socket and external threads, a nut, means on the hinged section for loosely mounting said nut to swivel, said nut having internal threads adapted to mesh with said external threads and having guide means which extend into the socket when the hinged



section of the plate is brought into parallel relation with said unitary plate.

2,288,117
FUSE CONSTRUCTION
Hugh A. Triplett, Wilmette, Ill., assignor to Schweitzer & Conrad, Inc., Chicago, Ill., a corporation of Delaware
Application August 16, 1939, Serial No. 290,358
37 Claims. (Cl. 200—117)



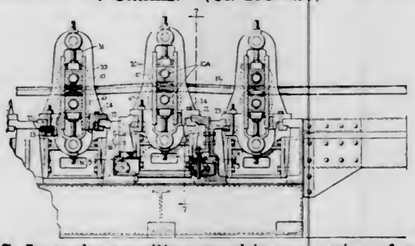
14. A circuit interrupter comprising, in combination, a body of solid arc extinguishing material having a bore from the surface of which an arc extinguishing medium is evolved due to the heat of an arc, a pair of relatively movable apart terminals between which an arc is adapted to be drawn in said bore, a member movable away from said body of solid arc extinguishing material, a pulley mounted on said movable member, a flexible lead secured at one end to one of said terminals and extending through said bore and looped over said pulley, means fastening the other end of said flexible lead between said body of solid arc extinguishing material and said movable member whereby for a given movement of the latter said one terminal moves twice as far, and spring means biasing said movable member for effecting such movement on release of said one terminal.

2,288,118
METHOD OF PREPARING SODA CRACKERS AND COMPOSITION THEREFOR
Edwin A. Vaupel, Chicago Heights, Ill., assignor to Victor Chemical Works, a corporation of Illinois
No Drawing. Application October 5, 1939, Serial No. 298,113
10 Claims. (Cl. 99—91)

3. In the preparation of soda crackers in which a sponge dough is prepared and is later augmented and fermented before baking, and in which the leavening action is supplied by yeast and in which soda is added to overcome acid produced by the yeast, the method of controlling the ultimate pH value of the resulting crackers within the pH range 7.0–7.5 which comprises adding to the sponge, bicarbonate of soda in excess sufficient to provide in the absence of a buffering agent a pH value in the baked cracker over 8.0

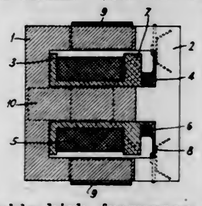
together with an ammonium salt of a strong acid in proportions to produce a cracker within the pH range of 7.0–7.5.

2,288,119
DRAW ROLLING MACHINE
William A. Weightman, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application February 15, 1940, Serial No. 318,983
7 Claims. (Cl. 153—28)



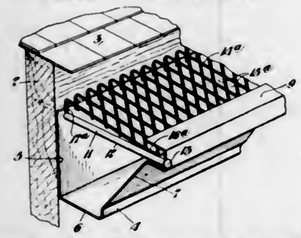
2. In a draw-rolling machine, a series of sets of draw rolls arranged to act commonly upon strip material drawn through the rolls in succession and generally in a common plane, and common means for bodily offsetting from said common plane an intermediate set of rolls, as a unit, simultaneously at the opposite ends thereof and without disturbing the cooperative relation of the rolls of said set, said intermediate set being disposed near the delivery end of said series of sets to offset predisposition from rectilinear form of the finished drawn stock which may exist prior to its delivery from the rolls.

2,288,120
IRON-CORED COIL
William Sidney Challis, Hayes, England, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain
Application November 18, 1939, Serial No. 305,108
In Great Britain November 10, 1938
1 Claim. (Cl. 171—242)



In a variable high frequency inductance device, a direct current control winding, a high frequency inductance winding made of a wire suitable for carrying high frequency currents, an iron core composed of low frequency material forming a closed magnetic path around said winding said iron core being made up of a pair of laminated E-shaped auxiliary cores mounted face-to-face adjacent one another and with their respective limbs partially overlapping, said control winding being wound around that portion of the central limb of said iron core which includes at least a part of the un-overlapped portion of the central limb of one of said auxiliary cores and the overlapped portion thereof, said high frequency winding being in axial alignment with said control winding, said high frequency winding being spaced from said control winding by a distance exceeding a predetermined minimum value and wound around only the un-overlapped portion of the central limb of the other of said auxiliary cores, a cylindrical coil support for said control winding concentric with said central limb portion, said support being provided with a spacer flange located between said two windings, said flange having a thickness to provide said minimum value spacing, the arrangement being such that a change in current in the direct current winding causes the permeability of the core to change and thereby produce a change in the inductance of the other winding, the portion of the iron core associated with the direct current winding having a greater cross-section area than the portion of the iron core associated with the high frequency inductance winding.

2,288,121
PROTECTOR FOR EAVE TROUGHS
William A. Cisar, North Chicago, and William K. Sandmeyer, Waukegan, Ill., assignors to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application August 4, 1940, Serial No. 351,309
1 Claim. (Cl. 108—30)

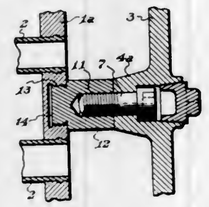


The combination with an eave trough having an inwardly projecting flange along the outer free edge thereof and an inner wall disposed beneath the eave, of trough supports extending transversely through the trough and beneath said outer flange, and a protector of substantially rigid metal having openings therethrough, the protector extending longitudinally of the trough and freely supported therein by the trough supports, said protector having its outer longitudinal edge portion bent upwardly and its inner longitudinal edge bent downwardly, both of said edge portions resting upon the trough support, said protector being downwardly inclined outwardly from said inner edge to a level beneath that of the trough flange, the overall transverse dimension of the protector being slightly less than the distance from the inner wall of the trough to the outer edge thereof and the outer edge portion of the protector fitting loosely beneath the trough flange to facilitate positioning the protector in the trough, the depth of the inner bent edge of the protector being variable to vary the inner height of the protector and the inclination thereof.

2,288,122
METALLIC COMPOSITION FOR ELECTRICAL CONTACTS AND THE LIKE
Irvin W. Cox, West Allis, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
No Drawing. Application July 3, 1941, Serial No. 400,959
18 Claims. (Cl. 200—166)

1. An electrical contact composed of silver and cadmium sulphide, the quantity of cadmium sulphide being not in excess of 20 per cent.

2,288,123
HEAT EXCHANGER TUBE SHEET CONNECTION
Joseph A. Coy, Tulsa, Okla.
Application June 11, 1941, Serial No. 397,642
4 Claims. (Cl. 85—1.5)



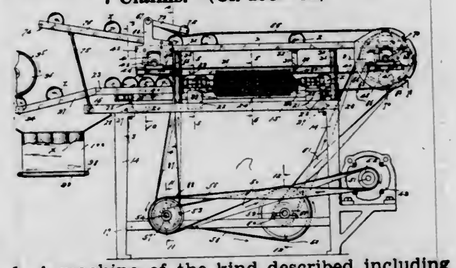
1. In a heat exchanger cover head and tube sheet in spaced relation, means for connecting said cover head to said tube sheet, said means comprising a headed bolt extending through the cover head and having its head disposed in a chamber of the cover head, a connecting plug having a large threaded end threaded into an enlarged threaded recess in the tube sheet, said plug having a reduced threaded aperture into which the bolt is threaded.

2,288,124
DRILLING STRING PROTECTOR
Thomas A. Creighton, Long Beach, Calif., assignor of one-half to Martha H. Wright, Los Angeles, Calif.
Application November 13, 1939, Serial No. 303,955
3 Claims. (Cl. 308—4)



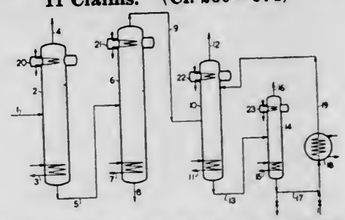
2. A protector for a rotary well drilling string made up of threadedly connected parts, the protector comprising a one piece tubular body threaded at its ends to be secured between two parts of the string to extend longitudinally of the string and to form an interposed part thereof, the body having external grooves extending longitudinally from one end thereof, the ends of the grooves at said end of the body being clear and open when the body is secured between said parts of the string, elements of hard wear resisting material passed into the grooves from said end of the body and projecting from the exterior of the body, and means on the body for retaining the elements in the grooves and removable to allow removal of the elements without necessitating detachment of the body from the adjacent string parts.

2,288,125
CONVEYER
Frank W. Douthitt, Ortonville, Minn.
Application June 19, 1940, Serial No. 341,309
7 Claims. (Cl. 198—34)



1. A machine of the kind described including an upper track and a lower track, a pair of horizontally disposed and radially spaced pulleys, one of which is driven, an endless belt arranged to run over the pulleys with its upper run on the upper track for conveying a can horizontally and transversely disposed thereon, the lower run of the belt being arranged to engage the upper surface of a can on the lower track and roll the same, a friction strap anchored at one end above the receiving end of the upper track, with its other end anchored at the receiving end of the lower track and with its intermediate portion extending substantially concentric with the belt while passing around one of the pulleys, and means normally holding the strap spaced at circumferential points about the belt while passing around the respective pulley a distance slightly less than the diameter of a can, whereby a can between the belt and the strap will place said strap under tension and thereby be frictionally held and lowered from the upper run of the belt to the lower track.

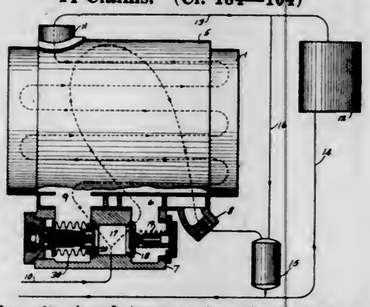
2,288,126
RECOVERY OF PURE AROMATICS
Clarence L. Dunn and Robert B. McConaughy, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application July 27, 1940, Serial No. 348,046
11 Claims. (Cl. 260—674)



3. In a process for separating a substantially pure aromatic fraction consisting essentially of aromatic hydrocarbons of identical molecular weight having at least 7 carbon atoms from a petroleum hydrocarbon distillate containing non-aromatic hydrocarbons and having a relatively wide boiling range above and below the boiling temperatures of said aromatics, the steps of fractionally distilling said distillate to produce a concentrate containing not less than about 5% of said aromatic fraction, said concentrate containing an amount of components boiling higher than about 10° C. above the upper boiling temperature limit of said aromatic fraction, which amount is not greater than the content of said aromatic

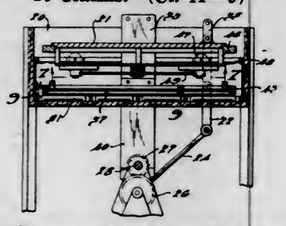
fraction in said concentrate, and a content of components boiling higher than about 15° C. above said upper boiling temperature limit which is not greater than the larger of the following: 5% of said content of said aromatic fraction and ½% of the total concentrate, said concentrate having a true initial boiling point at least about 10° C. below the lowest boiling temperature of said pure aromatic fraction and a true final boiling point at least about 2° C. above the highest boiling temperature of said pure aromatic fraction, contacting said concentrate in the vapor phase with a liquid solvent selective for aromatics, to produce a fat solvent containing absorbed aromatics only and a residual hydrocarbon vapor, separating said fat solvent from said vapor, and fractionally distilling the separated fat solvent to recover said absorbed aromatics, said solvent boiling at a temperature substantially above the said highest boiling temperature of said pure aromatic fraction.

2,288,127
VISCOSITY-CONTROLLED UNIT
Reuben G. Dykeman, Dayton, Ohio, and Henry B. Clarke, Roslyn, N. Y.
Application January 3, 1941, Serial No. 373,042
14 Claims. (Cl. 184—104)



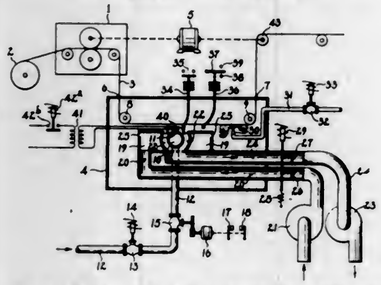
1. An oil circulatory system including a supply reservoir, oil circulating conduits leading to and from the reservoir, a heat exchange unit communicating with the reservoir, a conduit bypassing the reservoir and connecting said heat exchange unit with the return conduit from the reservoir, and viscosity responsive valves controlled by variation in viscosity of the oil governing the flow of oil alternately through the heat exchange unit and the by-pass to the exclusion of the reservoir and through the heat exchange unit and reservoir.

2,288,128
ETCHING MACHINE
Raymond Albert Erz, Detroit, Mich.
Application July 24, 1941, Serial No. 403,814
10 Claims. (Cl. 41—9)



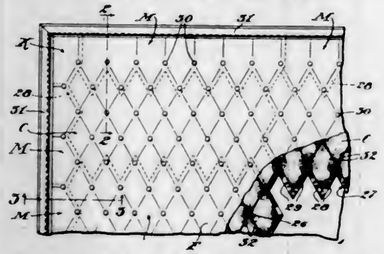
1. An etching machine comprising a tank, a plate carrier mounted for reciprocating horizontal movement therein, a plunger mounted for reciprocating vertical movement in said tank, and means for moving said plate carrier and said plunger.

2,288,129
CONTROL APPARATUS FOR PRINTING EQUIPMENT
Cyril P. Feldhausen, Wauwatosa, and Eric H. Laabs, Milwaukee, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application April 11, 1940, Serial No. 329,184
5 Claims. (Cl. 263—3)



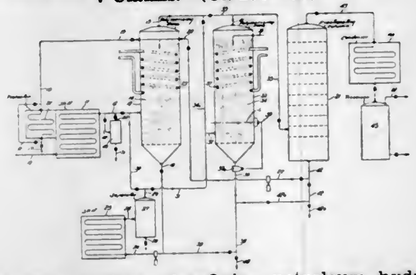
1. In a device of the character described, in combination, a drying chamber, a motor adapted to move a printed web through said chamber, a valve for controlling the supply of a heating medium to said chamber, means for controlling the speed of operation of said motor, means for controlling the degree of opening of said valve and for varying the rate of said opening in response to the speed of operation of said motor, means responsive to a temperature in said chamber and arranged to modify the controlling effect of said former means upon said valve, means to supply a given volume of cooling and combustion air to said chamber, and means to increase the supply of said air upon stoppage of said motor.

2,288,130
UPHOLSTERY CUSHION
James A. Forney, Los Angeles, Calif.
Application September 20, 1938, Serial No. 230,793
11 Claims. (Cl. 155—179)



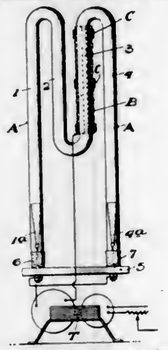
7. A composite cushion for upholstery, comprising; a plurality of unitary and homogeneous bodies of resilient material, each body having one side of permanently tufted form, and the tufts of one body matching those of the other to form when the bodies are assembled in edge to edge relation a single cushion of one design of tuft; a backing sheet of fabric for each of the bodies permanently secured thereto and projecting from the edges thereof to provide tacking strips by which the bodies can be secured in assembled form to a support.

2,288,131
PROCESS OF REFINING AND TREATING PETROLEUM HYDROCARBONS
William T. Hancock, Long Beach, Calif.
Application January 10, 1940, Serial No. 313,223
7 Claims. (Cl. 196—96)



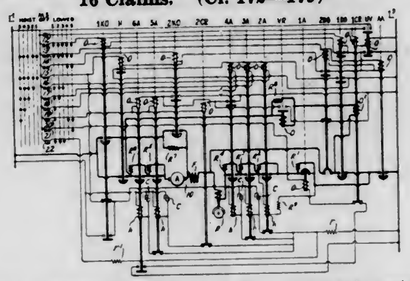
1. The method of refining petroleum hydrocarbons that includes subjecting the hydrocarbons to cracking in a cracking zone, introducing cracked hydrocarbon vapors from said zone into a polymerizing zone containing a body of adsorptive material being constantly washed by condensed fractions of the vapors, passing the vapors through and in intimate contact with said material and condensate, removing polymer-containing unvaporized oil and condensate from said polymerizing zone, subjecting the removed oil and condensate to cracking in a second cracking and essentially non-hydrogenating zone separately from and independently of the vapors passing from the first mentioned cracking zone, subjecting cracked vapors from said second cracking zone to polymerization by contacting them with adsorptive material together with the first mentioned vapors, and treating the polymerized vapors from the hydrocarbons cracked in said cracking zones to produce gasoline.

2,288,132
OZONE GENERATOR
Harry Buxton Hartman, Florence, Mass.
Application September 30, 1939, Serial No. 297,399
2 Claims. (Cl. 204—320)



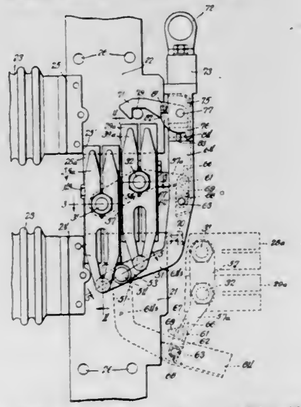
1. In an ozone generator, a tube of dielectric material containing a gas of low electrical resistance, and a mantle for avoiding the generation and concentration of excessive heat tending to destroy the tube and mantle, said mantle comprising an elongated resilient body of woven wire mesh formed into arcuate cross-sectional shape and fitted laterally in embracing relation to substantially one-half of the circumference of said tube, thereby leaving the portion of the tube opposite that embraced by the mantle exposed to the cooling effect of circulating air, and high voltage electric conductors connected respectively to said mantle and ends of said tube.

2,288,133
DYNAMIC LOWERING CRANE CONTROLLER
Paisley B. Harwood and John M. Newman, Wauwatosa, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application April 28, 1941, Serial No. 390,770
16 Claims. (Cl. 172—179)



11. In combination, a motor, means to establish different connections for said motor, resistance varying means common to said different motor connections, said resistance varying means having delaying means of the condenser type, and a master switch controlling said first mentioned means to select the motor connections, said master switch establishing selectively different charging circuits for said delaying means to afford said delaying means one time element for certain motor connections and a substantially different time element for other motor connections, and said master switch effecting the same operation of said resistance varying means free from delay by said delaying means when said master switch is moved to a given position from another given position.

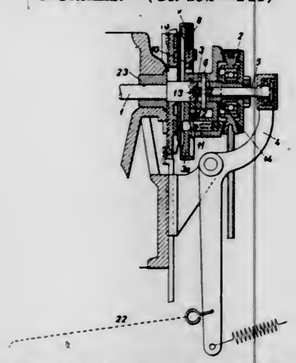
2,288,134
SWITCH
Peder B. Hoye, Maywood, Ill., assignor to Electrical Engineers Equipment Company, Melrose Park, Ill., a corporation of Illinois
Application April 6, 1940, Serial No. 328,344
39 Claims. (Cl. 200—162)



1. In an electric switch, the combination of a pair of spaced terminals, a blade structure mounted for opening and closing movements rel-

atively to said terminals, said blade structure comprising a plurality of relatively movable blade elements, and operating mechanism operative to open and close the switch, said operating mechanism including means for causing relative endwise motion between said blade elements, and including relatively rotatable members having interwedging surfaces for causing relative transverse motion between said blade elements, both in timed relation to the opening and closing movements of said blade structure.

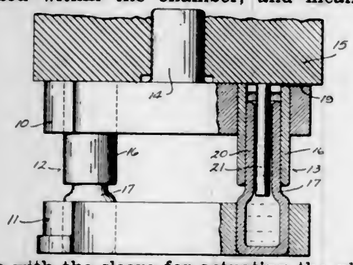
2,288,135
STOP MOTION MECHANISM FOR SEWING MACHINES
John Hoza, Belcamp, Md.
Application March 29, 1940, Serial No. 326,818
In Czechoslovakia May 28, 1938
5 Claims. (Cl. 192—148)



1. In a stopping mechanism for sewing machines, a driven shaft, a continuously rotating drive pulley rotatably mounted on said driven shaft, and manually controllable means for connecting said driven shaft operatively with said pulley and adapted to cause said driven shaft to be stopped in at least one predetermined position, a stationary brake disc provided with at least one stop member, said manually controllable means including a unitary flywheel and brake member slidably mounted on said driven shaft and rotating therewith, a manually operable lever for moving said flywheel and brake member into frictional engagement with said drive pulley, thereby causing a rotation of said driven shaft, spring means for moving said flywheel and brake member into engagement with said stationary brake disc when said manually operable lever is released, a counterweight slidably mounted on said flywheel, and a locking pin slidably mounted on said flywheel, said locking pin being controlled by said counterweight to move at a predetermined low speed of the flywheel into a position in which one end of said pin engages said stop member on said stationary brake disc when said manually operable lever is released, thus stopping the driven shaft in the desired predetermined position.

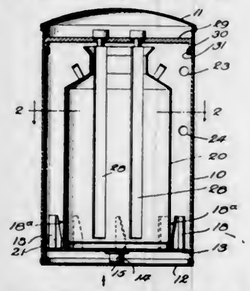
2,288,136
DIE SET
Kasimir Janiszewski, West Allis, Wis.
Application September 20, 1939, Serial No. 295,785
15 Claims. (Cl. 308—5)

1. In a device of the type described, a vertically positioned tubular leader pin having its lower terminus closed to provide a lubricant retaining chamber, a guide sleeve having its upper terminus mounted in an upper die set plate, said sleeve snugly enclosing a portion of the pin in slidable relation thereto, plunger means disposed within the chamber, and means op-



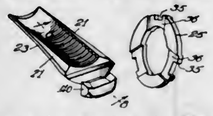
erable with the sleeve for actuating the plunger into the chamber whereby lubricant is forced from the pin chamber by displacement, thereby lubricating the pin and sleeve bearings.

2,288,137
LIQUID CONDITIONING APPARATUS
Stanley A. Jones, Chillicothe, Ohio
Application November 8, 1940, Serial No. 364,943
2 Claims. (Cl. 257—74)



1. Liquid conditioning apparatus comprising, in combination, an outer tank having an inlet and an outlet for heat exchange medium, a member mounted within the tank for rotation about a vertical axis and adapted to support thereon an inner container for the liquid to be conditioned, impeller buckets carried by said member adjacent its periphery and positioned to be impinged by the incoming heat exchange medium, the inner portions of said buckets being sloped inwardly to facilitate the centering of the inner container on the said member.

2,288,138
WIRE GRIP
Leonard Jugle, Chicago, Ill., assignor to Reliable Electric Company, Chicago, Ill., a corporation of Illinois
Application December 13, 1940, Serial No. 370,017
6 Claims. (Cl. 24—126)



4. In a wire grip of the character described, gripping jaws including neck and head portions and a jaw positioning means comprising a washer, radial neck receiving slots in said washer extending inwardly from the periphery thereof, and head receiving recesses in a surface of said wash-

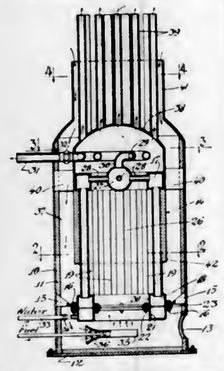
er coincident with but wider and longer than said slots whereby to maintain proper longitudinal and circumferential position of said jaws when the necks thereof are removed from said slots.

2,288,139
JUNCTION BOX FOR ELECTRICAL CIRCUITS
Florence Moore, Gibsonia, Pa.
Application August 15, 1941, Serial No. 407,049
3 Claims. (Cl. 174—59)



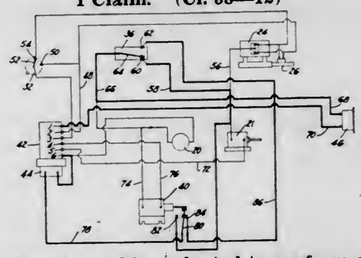
1. An electrical junction box comprising a pair of rectangular companion block sections of insulating material disposed in face to face engagement, the upper section having wire receiving recesses in the sides and ends thereof and longitudinally extending grooves in its upper face; strips of conducting material mounted in the grooves and extending through the upper section, the end portions of the strips being bent against the upper face of the upper section to provide contact members; binding screws threaded in the ends of the strips; a contact lug member adjacent one end of the upper section and extending therethrough, the end portions of the lug member being bent against the upper and lower faces of the upper section; a binding screw threaded in the lug member; a pair of contact lug members adjacent the ends of the lower section and extending therethrough with their end portions bent against the upper and lower faces thereof; binding screws threaded in the latter lug members, one of the latter lug members being in contact with the first lug member and the other lug member of the lower section being in contact with one contact strip; and a cover for the box, said cover being in the form of a casing for enclosing the said block sections.

2,288,140
BOILER
Joseph A. Niles, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, a corporation of Delaware
Application November 6, 1939, Serial No. 302,968
5 Claims. (Cl. 122—338)



1. A portable oil field boiler comprising a vertically disposed water tube steam generating section defining a combustion zone, means for passing combustion air substantially vertically downward about the exterior of said steam generating section, means for passing hot combustion gases upward through said steam generating section, a plurality of flue pipes vertically disposed above said combustion zone and means for drawing in combustion air countercurrent to said hot combustion gases and parallel to said flue pipes by natural draft.

2,288,141
CLEANING MACHINE
Wallace F. Oliver, South Bend, Ind., assignor to Bendix Home Appliances, Inc., South Bend, Ind., a corporation of Delaware
Application August 16, 1940, Serial No. 352,866
1 Claim. (Cl. 68—12)

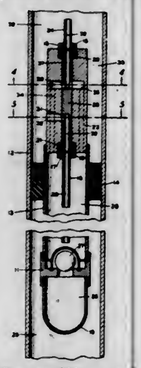


A cleaning machine adapted to perform a low-speed washing operation and a high-speed extracting operation, a motor driven controller having means for maintaining the low-speed washing operation and the high-speed extracting operation each for its own predetermined length of time, a float controlled three-way switch, a drain valve controlled three-way switch serially included in the circuit of the controller motor, one pair of the float controlled three-way switch contacts and one pair of the drain valve controlled three-way switch contacts serving to close the circuit of the controller motor to start the low-speed washing operation when the cleaning liquid reaches a predetermined high level and the drain valve is closed and the other pair of the float controlled three-way switch contacts and the other pair of drain valve controlled three-way switch contacts serving to close the circuit of said controller motor to start the high-speed extracting operation when the cleaning fluid reaches a predetermined low level and the drain valve is open.

2,288,142
WELL PUMP
Howard J. Pankratz, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application March 27, 1941, Serial No. 385,566
4 Claims. (Cl. 103—244)

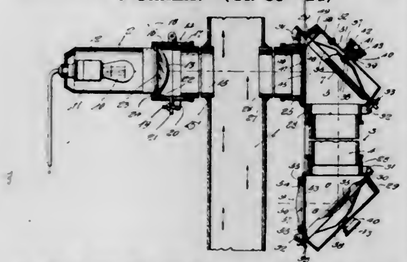
1. In a deep well lifting means, the combination of: a well casing; a barrel member stationary within the well casing comprising a fluid accumulation chamber and a rotatable valve associated therewith; said valve having an upper axial passage and a lower axial passage therein; a packer, and a gas accumulation chamber formed thereby between the well casing and the barrel member; a tubing string rotatably connected to the barrel member and rigidly attached to said valve, said tubing string communicating with the upper axial passage in the valve; a passage within the barrel member placing the fluid accumulation chamber in communication with the upper axial passage in the valve; a passage within the barrel member communicating with the exterior thereof to admit gas from the gas

accumulation chamber to the fluid accumulation chamber upon alignment of the lower axial pas-



sage in said valve therewith; and means for controlling the flow of well fluid into the fluid accumulation chamber.

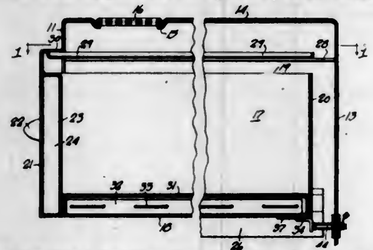
2,288,143
SMOKE DETECTOR
Creedy C. Sheppard, New York, N. Y.
Application March 20, 1941, Serial No. 384,417
9 Claims. (Cl. 88—14)



1. In a smoke detector, a light source mounted at one side of a smoke stack, a reflector box at the opposite side of the stack having an inlet and an outlet at right angles to each other and an opening between the same, a hinged cover for the opening of the reflector box, a reflecting mirror carried by said cover inwardly thereof and disposed within the box diagonally of the inlet and the outlet when the cover is closed, a soot-glass and a mounting for the soot-glass carried by the cover and mounting the soot-glass inwardly of the reflector in position for closing relation to the inlet when the cover is closed, the mounting for the soot glass being resilient to yieldably mount the soot-glass and permit yielding of the mounting and accurate seating of the soot-glass in closing relation to the inlet during closing of the cover.

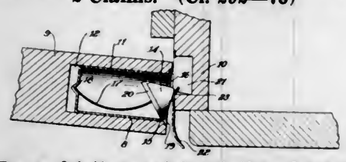
2,288,144
ELECTRIC RANGE
William H. Sickinger, St. Joseph, Ind., assignor to The Malleable Steel Range Manufacturing Company, South Bend, Ind., a corporation of Indiana
Application September 23, 1939, Serial No. 296,217
6 Claims. (Cl. 219—35)

6. In a cooking range, a range cabinet having an apertured top and front walls, a pair of vertically spaced sets of horizontal guides mounted in said cabinet, a drawer mounted on the lower set of guides and having a front wall, a cooking unit spanning said top opening, a drip pan slidable on the upper set of guides, and retaining



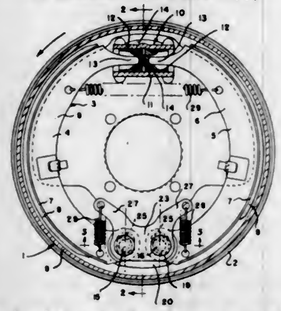
means carried by the front wall of said drawer engageable with the front of said drip pan to retain said pan in predetermined relation to said drawer.

2,288,145
FRICTION CATCH
Benedict O. Siegfus, Bakersfield, Calif.
Application May 29, 1940, Serial No. 337,910
2 Claims. (Cl. 292—78)



1. In a friction catch of the character described, a casing having an opening in the front end thereof and a notch in the rear wall thereof, a tapered catch head extending through and protruding from the opening in the front wall of the casing, and a leaf spring having one end rigidly secured to the catch head and the opposite end fitted in the said notch, the said spring being disposed to normally assume an approximately straight line position extending straight through the casing when the head is in disengaged latching position and to flex to arcuately bowed formation at either side of the normal position when the head is depressed.

2,288,146
BRAKE
Charles W. Sinclair, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Application June 28, 1940, Serial No. 343,042
2 Claims. (Cl. 188—78)

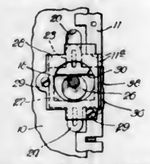


1. In a brake, a brake drum, a brake friction device engageable with said drum comprising brake shoes having corresponding ends adapted to be spread apart against said brake drum, a backing plate, a second plate secured in fixed relation to said backing plate and having an arm, anchor pins for the other ends of said shoes extending through said plates, one of said anchor pins guiding the last mentioned end of one of said shoes against said drum upon peripheral movement of said last mentioned shoe with said drum toward said last mentioned anchor pin, and a retracting spring between said last mentioned shoe end and said arm.

2,288,147
SAFETY PAPER
Burgess W. Smith, Rochester, N. Y., assignor to The Todd Company, Inc., Rochester, N. Y., a corporation of New York
No Drawing. Application March 12, 1941, Serial No. 383,030
9 Claims. (Cl. 117—1)

1. A safety paper containing a leuco derivative of a triphenylmethane dye.

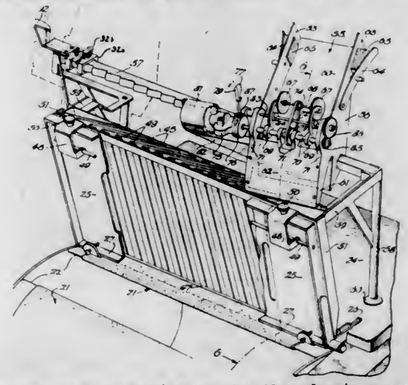
2,288,148
INTERMITTENT FILM FEEDING MEANS
Philmore F. Sperry, Chicago, Ill., assignor to Revere Camera Company, Chicago, Ill., a corporation of Delaware
Original application October 29, 1938, Serial No. 237,667. Divided and this application August 2, 1940, Serial No. 349,397
3 Claims. (Cl. 88—18.4)



1. In a mechanism of the type described, the combination of a frame plate, a second plate rigidly mounted at right angles to said first-named plate and having an opening therein past which a film may be moved in face engagement with the second plate, an angular actuating member extending about the corner formed by said two plates with one arm slidably mounted on the outer face of said first-named plate and with the other arm extending substantially to the path of the film along the second plate, a retaining plate mounted on the outer face of said first-named plate adapted in cooperation with said first-named plate to provide a recess in which said one arm of said angular actuating member is slidably mounted so as to be held firmly against angular movement in any direction with respect to said first-named plate, means located at the outer face of said first-named plate in an opening in said retaining plate adapted by operative engagement with said one arm to reciprocate said actuating member, and yielding means carried by said actuating member in position to extend through said opening in the second plate adapted by engagement with openings in a film to give the film a step by step movement along the face of the second plate.

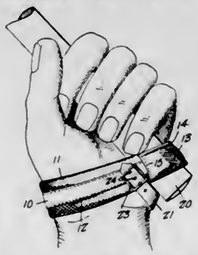
2,288,149
MANIFOLDING METHOD AND MEANS
Robert Alonzo Williams, Chicago, Ill., assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia
Application March 25, 1940, Serial No. 325,774
18 Claims. (Cl. 101—132)

1. In a sheet assembly device, sheet guiding means including a plurality of guides arranged in offset relationship to each other for completely separating a plurality of sheets and holding them shifted edgewise differentially in over-



lapping relationship whereby the sheets may be withdrawn simultaneously from the guides in overlapping relationship as aforesaid and each sheet will have a copy-receiving area exposed adjacent the aforesaid parallel edge portions.

2,288,150
WRISTBAND GRIP FOR GOLF CLUBS
Anthony J. Wyman, Orange, N. J.
Application July 28, 1941, Serial No. 404,403
2 Claims. (Cl. 273—81)

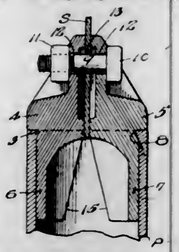


1. A device of the class described comprising, an inextensible strap, a covering of soft padding material on the strap, a covering of fabric sleeved on the padding, means for tightening the strap to encircle the wrist of the wearer and extend diagonally forward from the base of the thumb toward the little finger and present said fabric material in position to straddle the butt end of a golf club shaft at the heel of the palm of the hand, and a relatively short strap and buckle therefor secured to the inextensible strap on opposite sides of the club straddling portion of the inextensible strap and adapted to draw the club straddling portion into the form of a loop for clamping the shaft at the butt end against the palm and prevent over swinging of the club.

2,288,151
SIGN
John W. Alexander, Arlington, Va.
Application June 13, 1941, Serial No. 397,956
5 Claims. (Cl. 40—145)

1. The combination with a tubular support, of a pair of jaws and a sign mounted between the jaws, an anchoring leg on each jaw and projecting into the support, each said jaw and leg

having a pivotal point of contact with the sign, and means for clamping the jaws against the

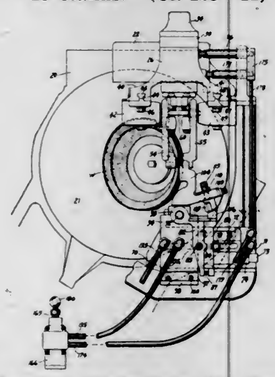


sign and thereby simultaneously engaging the anchoring legs against the inner bore of the support.

2,288,152
HECTOGRAPH BLANKET
Johan Bjorksten, Chicago, Ill., assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia
No Drawing. Application May 3, 1941, Serial No. 391,707
7 Claims. (Cl. 41—31.6)

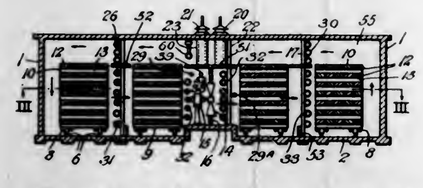
1. A hectograph blanket having a copy mass comprising a vinyl resin gel containing a non-hygroscopic liquid which is a solvent for at least one dye of high tinctorial power, the liquid of said gel being present in greater amount than said vinyl resin and said vinyl resin having a molecular weight of above approximately 10,000.

2,288,153
DRESSING MECHANISM
Edward W. Bullock, Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y., a corporation of New York
Application November 9, 1939, Serial No. 303,569
13 Claims. (Cl. 125—11)



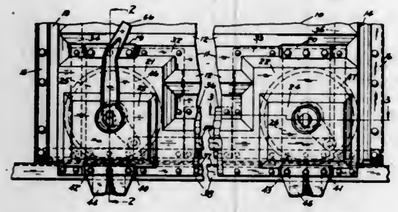
1. A dressing mechanism for dressing gear grinding wheels comprising a pair of supports, an arm journaled in each of said supports, a dressing tool mounted in one end of each arm, a plate, means connecting the plate with both of said arms, a reciprocable piston connected to the plate at a point intermediate the points of connection of said arms with the plate, and means for applying fluid pressure selectively to opposite ends of said piston to actuate said arms, said supports being adjustable angularly about the point of connection of the plate with the piston to adjust the planes of swing of the dressing tools relative to the wheel to be dressed.

2,288,154
DRY KILN AND THE ART OF KILN DRYING
James Forrest Cobb, Portland, Oreg., assignor to The Moore Dry Kiln Company of Oregon, a corporation
Application January 10, 1938, Serial No. 184,284
9 Claims. (Cl. 34—26)



1. The method of kiln drying lumber which consists of serially charging into an enclosure air permeable stock loads of lumber in spaced parallel rows on tracks, one row at a time at substantially regular time intervals, so that each row of stock loads has been dried a different amount from the other rows, circulating a common atmosphere through the rows of loads laterally from one side of the kiln to the other and in part back to the first mentioned side in recirculation, reconditioning the atmosphere between each row and replacing each row when it is dry with a green row.

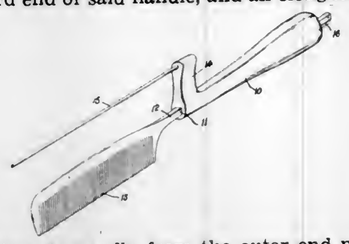
2,288,155
CAR DOOR
Frank Ditchfield, Cleveland, Ohio, assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a corporation of Ohio
Application June 7, 1940, Serial No. 339,354
9 Claims. (Cl. 16—99)



1. Lifting and supporting mechanism for a sliding door comprising spaced rollers, the web and rim of each roller being offset inwardly of the outer face of the hub of said roller, a pin for rotatably mounting each roller, eccentrically positioned trunnions extending from each pin, said trunnions being adapted to be journalled in said door, an arm extending from each pin, a bar connecting said arms, means extending from said arms toward said offset web for securing said bar to said arms, said rollers being of a size to permit full swinging movement of said arms during elevation of said door and means for effecting rotation of said pins to elevate and support said door upon said rollers.

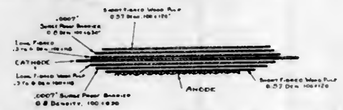
2,288,156
HAIR DRESSING INSTRUMENT
Joseph W. Dove, Port Huron, Mich., assignor of forty per cent to Lester C. Batdorff, Detroit, Mich.
Application October 19, 1940, Serial No. 361,910
5 Claims. (Cl. 132—19)

1. In a hair dressing instrument, a handle, an offset finger rest extending laterally from the forward end of said handle, and an elongated pin



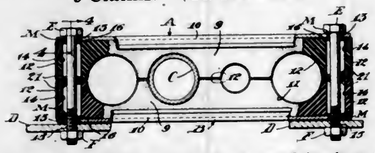
extending forwardly from the outer end portion of said finger rest.

2,288,157
DRY ELECTROLYTIC CAPACITOR AND SPACING MEANS THEREFOR
Frank S. Dunleavey, Fort Wayne, Ind., assignor to The Magnavox Company, Inc., Fort Wayne, Ind., a corporation of Indiana
Application July 3, 1940, Serial No. 343,835
2 Claims. (Cl. 175—315)



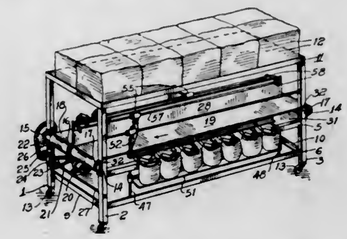
1. A dry electrolytic capacitor comprising an anode, a cathode and all paper surge-proof spacing means for said anode and cathode consisting in an absorbent sheet of paper having a density approximating 0.8 and a porosity on the order of 100 cubic centimeters in 630 seconds, and a plurality of sheets of capacitor tissue having densities within the range of 0.3 to 0.6 disposed on either side thereof, one of said sheets of capacitor tissue sheets being composed of matted short-fibered strips of wood pulp having a density on the order of 0.57.

2,288,158
CONDUIT SUPPORTING BLOCK
Herman Ray Ellinwood, Burbank, Calif., assignor to Adel Precision Products Corp., Burbank, Calif., a corporation of California
Application February 18, 1941, Serial No. 379,454
9 Claims. (Cl. 174—135)



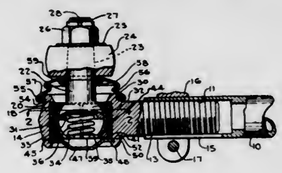
1. In a conduit support, a cushioning block of compressible resilient insulating material, and having conduit receiving channels, a pliable electrically conductive bonding strip disposed on said block for effecting electrical connection between metallic conduits disposed in said channels, a metallic support for said block, a metallic fastening element for securing said strip to said metallic support, having an end portion exposed on said metallic support for direct electrical contact with a metallic structure to which it is desired to electrically bond the conduits and means associated with said metallic support for clamping said block against said conduits and holding said end portion of said fastening element against said metallic structure.

2,288,159
SACKING DEVICE
Fredrick J. Ernst, Yakima, Wash.; Earl Ernst administrator of said Fredrick J. Ernst, deceased
Application September 30, 1940, Serial No. 359,043
2 Claims. (Cl. 198—188)



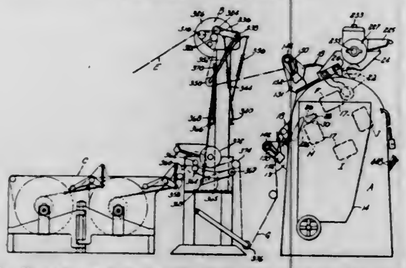
2. A device for unloading belt conveyors of articles comprising a pair of endless belts spaced apart and having an intervening upright partition, a shaft at the ends of the belts having rollers for transmitting power to the belts, a bearing block on each shaft separating the rollers thereon and supporting the partition, a frame supporting the shafts, a rod along each edge of each belt and supported by the frame over the belt edges, a shearer over each belt, each shearer having slide means at their ends and engaging the rods over their respective belts, said shearers comprising rectangular plates with bottom edges slightly spaced over their respective belts, said shearers being manually controlled and shiftable along the surfaces of their respective belts for the purposes described.

2,288,160
JOINT ASSEMBLY
William A. Flumerfelt, Columbus, Ohio, assignor to The Columbus Auto Parts Company, Columbus, Ohio, a corporation of Ohio
Application July 22, 1940, Serial No. 346,676
5 Claims. (Cl. 287—90)



1. In combination, a hollow housing; a stud member having an enlarged portion projecting into said housing; a plurality of metallic elements substantially surrounding the enlarged portion of said stud member, the exterior lateral surfaces of said elements forming together a ball-shaped configuration; a pair of similarly shaped non-metallic bearing seats having curved inner surfaces in engagement with the ball-shaped configuration; yieldable means interposed between said bearing seats and the interior walls of said housing; spring means positioned within said elements and beneath said stud member for resiliently urging said elements into engagement with said non-metallic bearing seats; a closure for the lower end of said hollow housing; and closure means engageable with said housing and said stud member forming a sealed joint construction.

2,288,161
METHOD OF AND APPARATUS FOR FORMING FIBER CAN BODIES
Alexander G. Hatch and Robert S. Condon, Rutland, Vt., assignors to Fibre Can Machinery Corporation, Rutland, Vt., a corporation of Vermont
Application July 21, 1938, Serial No. 220,474
24 Claims. (Cl. 93—81)



1. In a machine of the character described, a rotatable mandrel, means for intermittently rotating said mandrel, means for intermittently feeding a strip of material to said mandrel to be wound thereon, means for cutting said material when a predetermined length of material has been wound thereon, and means controlled by the movement of said feeding means for releasing said cutting means.

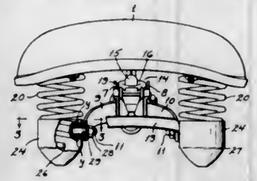
2,288,162
ELECTRIC SHAVER
Clarence P. Hulst, New York, N. Y.
Application April 5, 1941, Serial No. 386,985
4 Claims. (Cl. 30—34)



1. In an electric shaver, and in combination, a reciprocable cutter having slots extending transversely of its direction of reciprocation, a guard for said cutter having similarly extending slots, and a scraper having an edge positioned adjacent said guard at a distance of about one-sixteenth inch therefrom, substantially parallel to said direction of reciprocation and substantially complanar with an operative portion of said cutter.

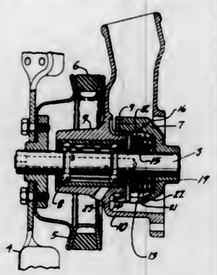
2,288,163
SPRING ASSEMBLY FOR SADDLES
Harold E. Kalter, Elyria, Ohio, assignor to The Troxel Manufacturing Company, Elyria, Ohio, a corporation of Ohio
Application July 4, 1939, Serial No. 282,798
8 Claims. (Cl. 155—5.22)

2. In a cycle saddle, a frame therefor, a reach member supporting the cantle and pommel ends of the saddle frame, a pair of coiled compression springs secured at their upper ends to the underside of the cantle end of the frame in relatively laterally spaced relation to each other, means for supporting the lower end of each said spring by a lateral rear portion of the reach member comprising at each side of the rear portion of said reach member a metal cup, said cup secured to the reach member and having a dome-shaped end wall, the lower end of said spring telescoped downwardly within the cup, spring retaining means disposed within the cup for preventing removal of said spring lower portion from said cup, said spring retaining means comprising means projected inwardly from a wall of



the cup, the tip end of the lowermost convolution of said spring when in its lowermost position resting in a crease provided between the cylindrical wall of said cup and the dome-shaped end wall and being securely retained therein, and certain convolutions of said spring being overlapped by said spring retaining means.

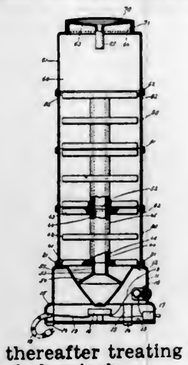
2,288,164
SHAFT SEAL
Morris Katcher, New York, N. Y.
Application October 7, 1940, Serial No. 360,025
8 Claims. (Cl. 286—7)



1. A rubber sealing member for use in a fluid seal between a shaft and a housing, with a bearing for the shaft supported by the housing, said fluid seal having a sealing washer mounted about the shaft to bear against the housing, a member being fastened to the shaft in spaced relation to the washer with compression spring means provided in the space between the washer and said latter member, said rubber sealing member being ring-shaped and mounted about the shaft between the washer and the member fastened to the shaft to keep fluid from entering the bearing, the rubber member being substantially T-shaped in cross section, the head of the T being radially inward of its stem, the stem being pressed axially against the washer and the head against the shaft by said spring means, the washer in turn being pressed against the housing by the stem.

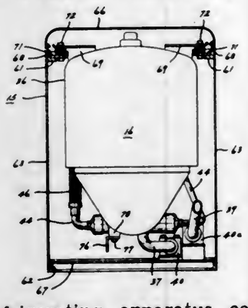
2,288,165
FILM TREATING APPARATUS AND PROCESS
Victor C. Krupa, Woodcliff Lake, N. J., and Harold R. Fleck, New York, N. Y., assignors to Vaporate Company Inc., a corporation of New York
Application March 14, 1939, Serial No. 261,776
4 Claims. (Cl. 95—89)

1. A process for treating exposed and developed film, comprising the step of supplying a substantially uniform application of heat to dehydrate the film without warping the same, and



immediately thereafter treating said heated film with vaporized chemicals.

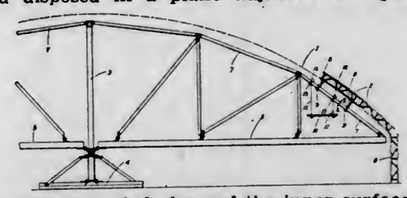
2,288,166
REFRIGERATING APPARATUS
Andrew A. Kucher, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application December 23, 1940, Serial No. 371,241
9 Claims. (Cl. 62—116)



7. A refrigerating apparatus comprising in combination, a portable cabinet having a horizontally disposed frame at the top thereof and a horizontally disposed frame at the bottom thereof, side walls secured to said frames to form a compartment, a refrigerant compressing and liquefying unit enclosed by said side walls and having provisions for connecting same with refrigerant conduits adapted to communicate with an evaporator located exteriorly of said cabinet, said unit including a motor, a compressor and a condenser enclosed in a sealed casing, and said casing being suspended from said frame at the top of said cabinet and supported within said compartment above the frame at the bottom of said cabinet solely by said side walls.

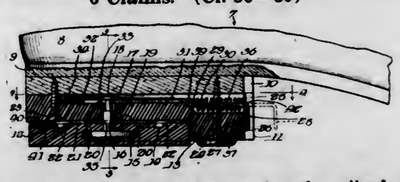
2,288,167
MOVABLE SCAFFOLD
Robert G. Le Tourneau, Peoria, Ill., assignor to R. G. Le Tourneau, Inc., a corporation
Original application September 16, 1940, Serial No. 356,939. Divided and this application April 10, 1942, Serial No. 438,373
5 Claims. (Cl. 304—2)

1. An interior scaffold for construction of domes, said scaffold including a central post, means supporting the post at its lower end, a scaffold portion projecting radially from said post and mounted in connection therewith for rotation about the axis of said post, said scaffold portion having an upper edge portion generally symmetrical to the configuration of the dome and disposed in a plane adjacent but spaced



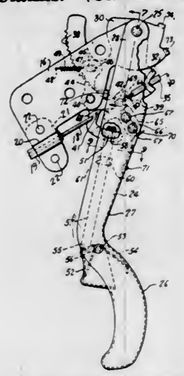
from the intended plane of the inner surface of the dome, and a workman's platform carried by said scaffold adjacent said upper edge portion, said platform being adjustable for position lengthwise of the scaffold.

2,288,168
HEEL
Edward E. Leu, Chicago, Ill.
Application May 20, 1941, Serial No. 394,313
6 Claims. (Cl. 36—39)



1. In a device of the character described, interchangeably removable and replaceable heel means rotatably secured to fixed heel means, the said removable and replaceable heel means adapted to receive limited and intermittent rotation imparted to it by a wearer equipped with the said device when walking, the said removable and replaceable heel means provided with arcuately shaped lubricant transfer recesses.

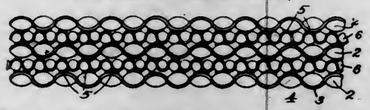
2,288,169
MECHANISM CONTROL APPARATUS
Charles S. McCarthy, Toledo, Ohio, assignor to The Bingham Stamping Company, a corporation of Ohio
Application April 16, 1940, Serial No. 329,935
4 Claims. (Cl. 74—541)



1. In combination, a lever system, including a relatively stationary support; a lever member pivotally secured to the support; a sector piv-

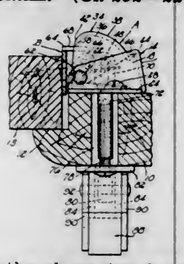
otally carried by said support movably associated with the lever, said sector having a laterally extending V-shaped portion arranged to be connected to the load to be actuated, said lever member being normally in engagement with said laterally extending portion whereby movement of the lever toward load actuating position moves said sector in the same direction; a one-way clutch carried by said lever for establishing a one-way driving connection between said lever and said sector effective after said lever has been moved from initial position; locking means associated with said support for restraining movement of said sector in its other direction whereby repeated reciprocatory movements of said lever through said one-way clutch moves said sector in only one direction; and common means for releasing said locking means and concurrently rendering said one-way clutch ineffective.

2,288,170
THERMAL INSULATING MATERIAL
William J. Moeller, Mount Healthy, Ohio, assignor to The Philip Carey Manufacturing Company, a corporation of Ohio
Application May 28, 1936, Serial No. 82,266
5 Claims. (Cl. 154—45)



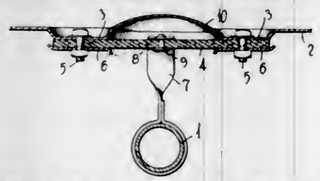
1. In a heat insulating material, adjacent superposed layers of felted sheet material provided with a portion arranged in a neutral plane and on opposite sides of said neutral plane with a plurality of independent convex portions spaced from each other having the characteristics of having been formed in said felted sheet material during its manufacture but before being dried, concave portions adjacent to said convex portions separating a convex portion from an adjacent convex portion, the exterior of said convex portions being larger than the interior of adjacent concave portion, all so arranged that the convex portions of one layer are opposite to and face the convex portions of the next adjacent layer so as to contact and provide a multiplicity of irregular formed air spaces between said layers, said convex and concave portions of one layer differing in size from the convex and concave portions of the adjacent layer.

2,288,171
CABINET LATCH
David Malcolm Robinson, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a corporation of Connecticut
Application July 13, 1940, Serial No. 345,254
1 Claim. (Cl. 292—221)



In a latch of the character described, an open top casing having spaced side members and a rear member, a bolt pivotally mounted on said casing and including spaced side arms and a semi-circular cuter connecting wall having a sharply downturned forward camming portion, said spaced side arms of the bolt being positioned between said side members and pivotally mounted adjacent their forward ends on a pin carried by the side members of said casing adjacent the forward edges thereof, said outer connecting wall having an abutment extending from its rear edge and engaging a stop extending from the rear member of the casing, spring means normally pivoting said bolt to latching position with said abutment engaging said stop whereby said camming portion will be in alignment with the bolt pivot pin to define an opening for the reception of a keeper and the outer connecting wall of the bolt to close the open top of the casing.

2,288,172
SOUND DEADENING CONNECTION
Theodore Ulrich, Detroit, Mich., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application August 4, 1939, Serial No. 288,274
5 Claims. (Cl. 248—54)

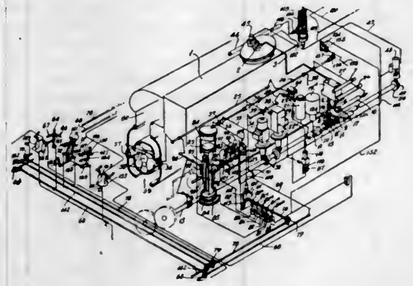


1. Means for connecting a vehicle accessory such as the exhaust pipe to a panel such as the floor plate of the vehicle body, comprising spaced projections on one side of said panel, a member of non-resonant web-shaped material secured to and bridging said projections, and means secured to said member and to said accessory, said means being also secured to a narrow region of said member which region is situated about midway between said projections and the width of which is only a small fraction of the distance between said projections, whereby transmission of sound from said accessory to said panel is effectively suppressed.

2,288,173
CONTROL FOR INTERNAL COMBUSTION ENGINES
George J. Wohanka, St. Louis, Mo., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo., a corporation of Missouri
Application August 2, 1940, Serial No. 349,793
12 Claims. (Cl. 60—97)

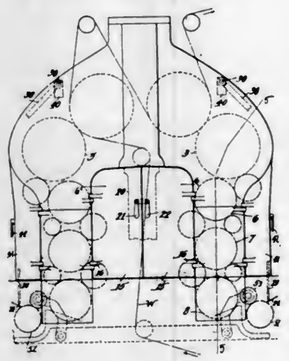
1. In a power plant, the combination with an internal combustion engine having means to supply fuel, engine gearing shiftable to cause the engine to operate ahead and astern, means providing power to start the engine in motion, and a motor to shift said engine gearing from ahead to astern running position and vice versa, of a manually operable mechanism to control the supply of fuel to the engine, another mechanism manually operable independently of the first mentioned mechanism, to control the operation of both said motor and said engine-starting power means, and means to prevent the supply of fuel to the engine while said engine-starting power means is in operation.

9. The combination with a plurality of internal combustion engines each including engine gearing shiftable to cause its engine to operate ahead and astern, and means providing power to start said engines in motion, of a motor at each engine to shift the engine gearing of its



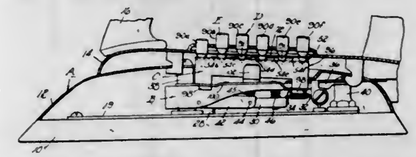
engine from ahead running to astern running position and vice versa, manually operable pilot maneuvering mechanism to control the operation of said motors of all said engines simultaneously and also to control the operation of said engine-starting power means.

2,288,174
PRINTING PRESS
Henry A. Wise Wood, deceased, late of New York, N. Y., by Elizabeth Ogden Wood, executrix, New York, N. Y., and Charles L. Ricards, South Plainfield, N. J., assignors to Wood Newspaper Machinery Corporation, Plainfield, N. J., a corporation of Virginia
Application May 31, 1939, Serial No. 276,702
4 Claims. (Cl. 101—176)



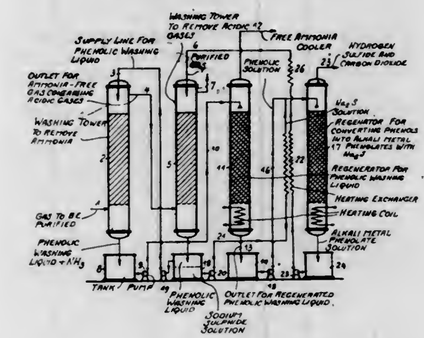
1. A printing press comprising printing couples located at the top thereof, a press frame supporting the couples and of an arch formation, inking mechanisms comprising horizontal rolls and cylinders located in vertical alignment within the two sides of the frame, covering panels movably mounted on the frame for enclosing the sides of the couples and inking mechanism and for exposing them when desired, said inking mechanisms comprising vertical fountain blade adjusting screws having screw manipulating keys at their upper ends, for the purpose described, adapted to be exposed for adjustment, and removable guard sections or cover plates on which said screws are mounted and with which they are removable.

2,288,175
SADIRON
Nils T. Almquist and Paul J. Kircher, New Britain, Conn., assignors to Landers, Frary & Clark, New Britain, Conn., a corporation of Connecticut
Application November 12, 1940, Serial No. 365,278
19 Claims. (Cl. 200—138)



1. In an electric iron, thermal responsive means, a switch actuated by said thermal responsive means, means for adjusting said switch relative to said thermal responsive means and comprising a plurality of independently operable manual control elements exterior of the iron, and means interior of the iron operable upon the operation of any one of said elements to adjust said switch.

2,288,176
RECOVERY OF READILY VOLATILE BASES
Hans Baehr, Leuna, Germany
Application January 20, 1939, Serial No. 251,998
In Germany January 21, 1938
7 Claims. (Cl. 23—196)

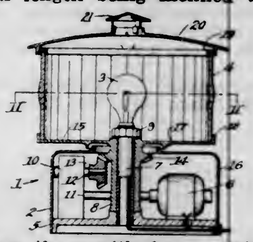


1. The process of treating a fluid containing a volatile amino base and a gaseous weak acid for selectively recovering said volatile amino base therefrom which comprises contacting said fluid at a temperature at which substantially only said volatile amino base is absorbed, with a liquid essentially comprising a substance selected from the group consisting of phenol, cresols, xylenols and mixtures thereof.

2,288,177
FLOODLIGHT
James M. Bailey, Columbus, Ohio
Application November 3, 1938, Serial No. 238,572
5 Claims. (Cl. 240—49)

1. In a floodlight, a light source, a light transmitting drum mounted for rotary movement around said light source, said drum being formed of groups of circumferentially disposed spherical lens elements, the lenses of each group having different principal focal lengths, said lenses being inclined with respect to the axis of rotation of

said drum, the lenses with the shortest principal focal length being inclined to a greater

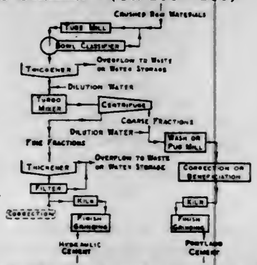


degree than those with longer principal focal lengths.

2,288,178
PROCESS OF PREPARING ACYLATED HALOGEN ALKYL AMINES
Herbert Bestian, Frankfort-on-the-Main-Unterliederbach, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application July 3, 1939, Serial No. 282,692. In Germany July 12, 1938
5 Claims. (Cl. 260—404)

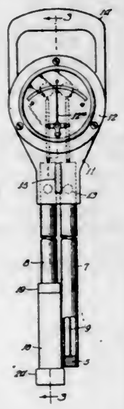
5. The process of preparing stearic acid-β-chlorethyl amide which comprises adding ethylene imine in at most equimolecular proportion to stearic acid chloride in the absence of an agent having an alkaline action.

2,288,179
CEMENT AND CEMENT MANUFACTURE
Charles H. Breerwood, Narberth, Pa., assignor to Valley Forge Cement Company, Catasauqua, Pa., a corporation of Pennsylvania
Application April 16, 1940, Serial No. 329,841
15 Claims. (Cl. 106—100)



1. The method of manufacturing a hydraulic cement in which an available natural material containing calcium carbonate in an amount in excess of that essential to produce the cement is utilized as the source of at least the principal proportion of the raw material mixture, and in which the material is a member of the class consisting of argillaceous limestones, marls and chalks, each containing substantial proportions of at least one siliceous mineral which can be released and increased in proportion to the calcium carbonate in the low orders of particle size by grinding the material, which comprises grinding the material to a degree sufficient to free a proportion of siliceous mineral particles at least equal to the proportion thereof desired for said raw material mixture and to concentrate said proportion and increase the relative proportion of said siliceous mineral to the proportion of calcium carbonate in the low orders of particle size, subjecting a slurry of the material so ground to particle size classification so controlled that the separation is made at that point in the particle size range where the relative proportions of said siliceous mineral and calcium carbonate are satisfactory for the mixture, thickening the low orders of particle size so separated and utilizing them as at least the major proportion of the ultimate raw material mixture, burning said mixture for a time and at a temperature at least sufficient to liberate carbon dioxide but below that of incipient fusion, cooling the products resulting from burning said low orders of particle size and grinding them to cement fineness.

2,288,180
APPARATUS FOR MEASURING pH
Fred C. Brengman, Elmhurst, and Milton E. Parker, Barrington, Ill., assignors to Beatrice Creamery Company, Chicago, Ill., a corporation of Delaware
Application June 8, 1938, Serial No. 212,430
1 Claim. (Cl. 204—195)

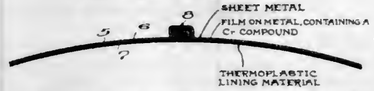


A portable testing apparatus for measuring pH of a liquid including in combination a housing, an electric meter mounted in said housing, a pair of spaced insulating tubes extending downwardly from said housing so as to be immersible directly together in the liquid whose pH is to be tested, an antimony electrode mounted in the lower end of each of said tubes, the electrode in one of the tubes being immersed in the liquid to be tested, an insulating tubular container at the lower end of the other tube and enclosing the electrode therein, said container containing a standard solution to which the electrode therein is always in liquid contact and having a semi-permeable membrane across its lower end to prevent ready mixing of the standard solution and the liquid being treated when both tubes are immersed in the liquid whose pH is to be tested but instantly permitting a current to directly flow through the liquid to be tested and the standard solution, and electrical conductors leading from said electrodes to said meter, said meter indicating any flow of current between said electrodes whereby the exposed electrode will be positive with respect to the electrode in the container if the liquid is more acid than the standard solution and said exposed electrode will be negative if the liquid being tested is more alkaline than the standard solution.

2,288,181
METHOD OF MANUFACTURING ETHER ALCOHOLS
Kurt Burgdorf, Herbert Frotscher, and Hubert Machon, Chemnitz, Germany, assignors to American Hyalsol Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 23, 1939, Serial No. 257,962. In Germany February 23, 1938
8 Claims. (Cl. 260—615)

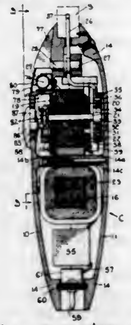
2. A method of manufacturing ether alcohols of the general formula $(RO)_x.Alk.(OH)_y$ by reacting compounds of the general formula ROQ, wherein R is a hydrocarbon radical and Q is selected from the group consisting of alkali metals and hydrogen, where Q is hydrogen the compound ROQ being in admixture with a compound which in the reaction displaces the hydrogen with an alkali metal atom, with compounds of the general formula $Hal_x.Alk.(COOR')_y$, wherein Hal is a hydrogen atom, Alk is a polyvalent aliphatic radical, R' is an akyl radical and x and y are whole numbers from 1 to 6, and subjecting the resulting ether compound to catalytic hydrogenation.

2,288,182
CONTAINER MANUFACTURE
Leo P. Curtin, Cranbury, N. J., assignor, by mesne assignments, to Curtin-Howe Corporation, a corporation of Delaware
Application April 6, 1939, Serial No. 266,424
3 Claims. (Cl. 113—120)



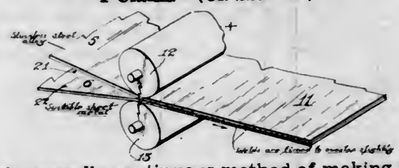
1. A metal container for foodstuffs and the like, having at least its inner surface coated with a thermoplastic chemically-resistant lining material applied over a film comprising a compound of chromium and bonded to the metal thereby, and having longitudinal and end joints containing said lining material and hermetically sealed thereby.

2,288,183
ILLUMINATING MOTOR TOOL
Godfrey Dalkowitz, Brooklyn, N. Y., assignor to American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia
Application March 10, 1939, Serial No. 260,907
4 Claims. (Cl. 172—36)



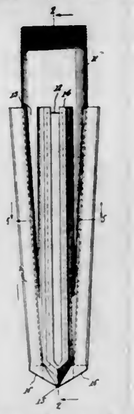
1. In combination, a motor, a casing to house the parts thereof in the form of a shell composed of two interfitting sections, and a pair of opposed rod-like members projecting from the midportions of the interior walls of said sections, so as to meet and thereby to constitute a pillar-like strut resisting collapse of the casing.

2,288,184
METHOD OF MAKING STAINLESS-CLAD SHEET STEEL
Howard W. Dodson and David G. Neuman, Philadelphia, Pa.
Application April 7, 1939, Serial No. 266,607
1 Claim. (Cl. 219—10)



A generally continuous method of making two-ply stainless-clad sheet-steel, which comprises bringing together a preformed relatively thin and relatively wide sheet of stainless steel-alloy and a pre-formed sheet of ordinary steel of generally like width, along a line across the sheets, exerting pressure upon said sheets simultaneously to press said sheets together on said line while the widths of said sheets are in substantial registration with each other along said line of pressed-contact, continuously moving successive portions of said sheets into said pressed-line contact in a direction transversely of said line, and intermittently passing a welding electrical current through said two sheets through substantially the entire line of pressed-contact as successive portions of said sheets are moved into said pressed-line contact, of an intensity and volume and for a sufficient length of time in relation to the speed of the motion of said sheets to weld said two sheets together substantially continuously throughout their contiguous major surfaces by closely-spaced generally parallel line-welds, each formed simultaneously across the width of said sheets.

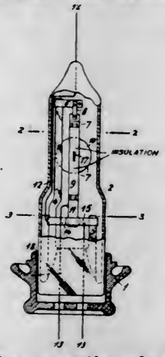
2,288,185
SAND POINT
Harlan B. Fairbanks, Yakima, Wash.
Application November 18, 1940, Serial No. 366,171
7 Claims. (Cl. 37—58)



1. A suction nozzle of the character described comprising a tube having elongated longitudinal slots therein, longitudinal ribs disposed at each side of each slot and projecting outwardly be-

yond said tube to form continuations of the side walls of the slots, a point secured to the end of the tube, the ribs of each slot being connected at the leading or lower end of each slot and extending beyond the other trailing or upper end of the slot to provide an opening through which particles jammed between the ribs may work out and escape from the ribs and slot.

2,288,186
ELECTROMAGNETIC RELAY
Alfred Gaebel and Hans-Fredi Schwartz, Berlin, Germany, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application April 26, 1938, Serial No. 204,441
In Germany May 4, 1937
2 Claims. (Cl. 200—87)



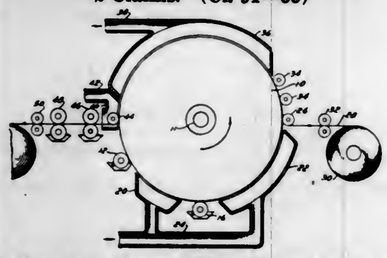
1. In an electromagnetic relay, an evacuated envelope, a stem forming part of said envelope, a relatively long and a relatively short rod of insulating material embedded in said stem and projecting therefrom, a flat strip of insulating material hingedly supported on the free end of the long rod, the free end of the flat strip being adjacent the free end of the short insulating rod, contacts carried by the flat strip near its end, contacts carried by the two rods cooperating with the contacts on the flat strip, lead-in wires extending through the stem to the contacts on said flat strip and on the short insulating rod, a lead-in wire extending through another portion of the envelope to the contact on the relatively long rod, arcuate iron plates conforming to the walls in the envelope fastened to said flat strip intermediate its ends, and electromagnets outside of said envelope in alignment with said iron plates.

2,288,187
METHOD OF FORMING INDICIA ON COUNTER WHEELS
Joseph A. Gits and Jules P. Gits, Chicago, Ill.
Application March 12, 1938, Serial No. 195,505
6 Claims. (Cl. 18—61)



6. A method of molding indicia in the wall of an annular body so that said indicia are exposed along the outer peripheral surface thereof which comprises forming indicia-conforming recesses of a predetermined depth in said wall along said outer peripheral surface, forming a recess in said wall along an inner peripheral surface opposing said outer peripheral surface, predetermining the depth of said recess on said inner peripheral surface to provide an opening between the same and said indicia recesses, the opening being of such size and extent with respect to said indicia recesses that a portion only of the floor of said indicia recesses is removed but unrestricted communication is provided between said inner recess and each indicia recess, and flowing indicia-forming material through said inner recess to fill said indicia recesses.

2,288,188
METHOD AND APPARATUS FOR MAKING COATED FABRICS
William F. Grupe, Lyndhurst, N. J., assignor, by mesne assignments, to Interchemical Corporation, New York, N. Y., a corporation of Ohio
Application June 20, 1939, Serial No. 280,034
2 Claims. (Cl. 91—55)



2. Apparatus for continuously producing coated fabrics comprising a continuously moving casting surface; coating means for applying a first layer of a film forming material upon said casting surface; heating means for partially setting such first applied layer; means for applying a second layer of a different coating material upon the exposed surface of the first applied layer; means for bringing a web of fabric into contact with said second layer; means for successively applying positive pressure to the web and cast layers; heating means for drying the materials while adhering to the casting surface; and means comprising a roll for stripping the web with the cast layers bonded thereto from said casting surface.

2,288,189
LOOSE-LEAF BINDER
James P. Guinane, New York, N. Y.
Application February 21, 1941, Serial No. 379,954
2 Claims. (Cl. 129—17)

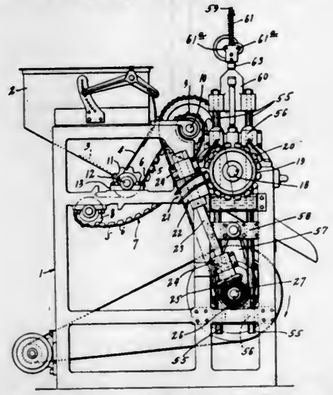


1. A loose-leaf binder comprising a U-shaped back having a central hinge and a pair of cover members hingedly connected to the upper edges of the back, a pair of hinged angle members respectively connected to the inner sides of said back and having a hinge connection between them overlying said back, a female locking member connected to one of said angle members and a yieldable male member connected to the other of said angle members, said female member having a plurality of openings engageable by said male member to determine the locked angular relationship of said angle members, the vertical walls of said back extending above and below said hinge connection of said angle members, whereby inward pressure exerted on the vertical walls of said back below said hinge connection causes said locking members to separate so as to open the binder and whereby inward pressure exerted on the vertical walls of said back above said hinge connection causes said locking members to approach each other so as to close the binder.

2,288,190
METHOD OF MAKING SPONGE RUBBER
Marion M. Harrison, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application January 25, 1940, Serial No. 315,623
3 Claims. (Cl. 260—723)

1. The method of making sponge rubber which comprises dissolving propane in an aqueous dispersion of a rubber material, the solution being effected under such conditions of temperature and pressure that the propane occupies a smaller volume than it would ordinarily occupy at normal room temperature and atmospheric pressure, then altering at least one condition of temperature or pressure in order to deposit the propane from solution in the form of small bubbles, to produce an expanded structure, and thereafter setting the expanded structure to an irreversible condition.

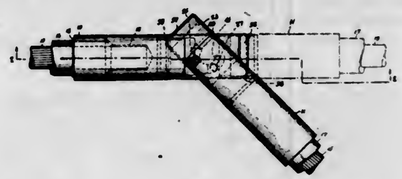
2,288,191
NUTCRACKING MACHINE
Frank Hayes, El Monte, Calif.
Application February 5, 1941, Serial No. 377,419
7 Claims. (Cl. 146—12)



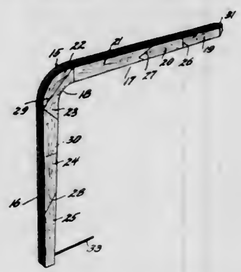
1. In a cracking machine including a cracker member, a drum carrying the cracker member, a cracker head, means for intermittently advancing the drum to position the cracker member under the cracker head, said means including a worm wheel secured to the drum and having equally spaced bearing members forming a worm gear, and a driven worm member including a bearing member actuating worm having a pitch for only a portion of its extent, and being straight for another portion of its extent.

2,288,192
CONSTANT PRESSURE CLASP CONNECTOR
Charles Joseph Hegenauer, Hastings on Hudson, N. Y., assignor to Burndy Engineering Company, Inc., a corporation of New York
Application July 19, 1941, Serial No. 403,131
3 Claims. (Cl. 287—93)

3. A clasp connector for transmitting electric current comprising two interlocking body sections; means for pivoting one body section on the other to unlocking position whereby the two body sections may be unlocked and separated; a pair of springs, one attached to each of the body sections, said springs moving one upon the other to transmit the current and to insure good electrical contact when the two body sections are interlocked.



2,288,193
STRUCTURAL MEMBER AND BUILDING STRUCTURE
Erwin A. Horn, Irving F. Laucks, and P. Bobbin Attwell, Seattle, Wash., assignors, by mesne assignments, to I. F. Laucks, Inc., Seattle, Wash., a corporation of Washington
Application July 24, 1939, Serial No. 286,266
5 Claims. (Cl. 20—91)



1. A laminated structural member having curvature in a single plane and consisting of adhesively united flat plywood laminae which are substantially parallel with the plane of curvature of the member, the laminae being each composed of a plurality of contiguous pieces in longitudinally extending relation; the pieces each comprising outer plies with the grain running in the same direction and an inner ply with the grain running transversely with respect to the grain of the outer plies and the pieces being disposed with the grain of the outer plies running generally longitudinally of the member.

2,288,194
VULCANIZATION OF RUBBER
Paul C. Jones and Roger A. Mathes, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application February 8, 1939, Serial No. 255,358
11 Claims. (Cl. 260—787)

1. The process which comprises vulcanizing a rubber in the presence of a member of the class consisting of 2-mercaptothiazolines and salts thereof in which a metal is combined solely with the acid radicals thereof, and a member of the class consisting of monocarboxylic acids and their metallic salts.

2,288,195

RUBBER COMPOSITION HAVING HIGH FLEX-RESISTANCE AND LOW HYSTERESIS

Paul C. Jones, Silver Lake, and Warren E. Phillips, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application October 17, 1940, Serial No. 361,616
11 Claims. (Cl. 260—788)

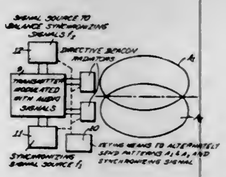
1. The process which comprises vulcanizing a rubber in the presence of a fatty acid and of two accelerators present in proportions of from about 1:3 to 3:1 and magnesium oxide, one of the accelerators being selected from the class consisting of substituted thiuram sulfide and N,N'-thioamine accelerators and the other accelerator being selected from the class consisting of 2-mercaptothiazolines and zinc salts thereof.

2,288,196

RADIO BEACON SYSTEM

Ernst Kramar, Berlin, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company

Application November 18, 1938, Serial No. 241,155
In Germany November 18, 1937
2 Claims. (Cl. 250—11)



1. A radio system comprising a radio transmitter for emitting radiation patterns alternately and in the rhythm of two kinds of signals produced by a keying operation, said two kinds of signals being adapted to complete each other to form a continuous signal, a source of synchronizing signals, means for coupling said source of synchronizing signals to said transmitter simultaneously with one of said two kinds of signal, a radio receiver for receiving said signals, an optical indicating device adapted to be actuated by said two kinds of signals of said received signals, switching means at said receiver operative at the rhythm of said keying operation to apply the two kinds of received signals in comparison fashion to said optical indicating device and a simple relay operated by said synchronizing signal for operating said switching means.

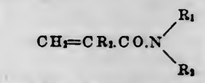
2,288,197

ACRYLIC ACID AMIDES

Georg Kränzlein and Martin Corell, Frankfort-on-the-Main, Germany

No Drawing. Application July 24, 1940, Serial No. 347,306. In Germany August 31, 1939
2 Claims. (Cl. 260—562)

1. The compounds of the following general formula:



wherein R_1 and R_2 stand for aryl and R_3 stands for a substance of the group consisting of hydrogen and alkyl.

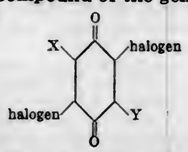
2,288,198

ETHERS OF MONO-HYDROXY-HALOGEN-1.4-BENZOQUINONES AND A PROCESS OF PREPARING THEM

Gerhard Langbein, Hofheim in Taunus, Germany, assignor to General Aniline & Film Corporation, a corporation of Delaware

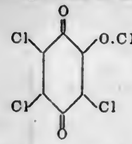
No Drawing. Application November 29, 1938, Serial No. 242,917. In Germany December 4, 1937
6 Claims. (Cl. 260—396)

1. The process which comprises heating a benzoquinone compound of the general formula



wherein X and Y represent members of the group consisting of hydrogen, halogen and methyl, with a saturated aliphatic alcohol in the presence of a diluent and of one mol equivalent of an acid binding agent calculated on the basis of the quinone compound, whereby only one halogen atom is replaced by an alkoxy group.

6. The compound of the formula



forming orange-coloured leaflets melting at 84° C. to 85° C.

2,288,199

FOOT PROTECTOR

Minnie Levy, Brooklyn, N. Y., assignor of one-half to William Levy, Brooklyn, N. Y.

Application February 13, 1939, Serial No. 256,209
3 Claims. (Cl. 36—10)



1. A foot protector comprising a body of thin elastic non-porous material having a sole portion and an upper portion shaped to substantially conform to and incase the toe area and forward portion of the foot, a plurality of non-elastic stiffening members secured to the body to embrace substantially the entire upper portion of the body to thereby maintain the body in foot-receiving configuration, the stiffening members having guiding and securing tabs extending rearwardly from the body and terminating at locations within the length of the sole, and means for securing the said tabs to the shoe.

2,288,200

PROCESS FOR THE PRODUCTION OF WATER-SOLUBLE CELLULOSE ETHERS IN POWDER FORM

Georg Meyer, Hanover, Germany

No Drawing. Application May 11, 1938, Serial No. 207,330. In Germany May 15, 1937
3 Claims. (Cl. 260—232)

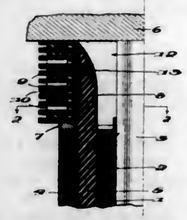
1. A process for the production of water-soluble cellulose ethers in powder form, in which solutions of cellulose ether compounds, which are soluble both in cold and in hot water and in aqueous alkali hydroxides, are dried in thin layers on surfaces heated to drying temperatures above 100° C.

2,288,201

HIGH TENSION TRANSFORMER

August Meyerhans, Rieden, near Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland, a joint-stock company

Application June 24, 1939, Serial No. 281,023
In Germany June 28, 1938
3 Claims. (Cl. 175—356)



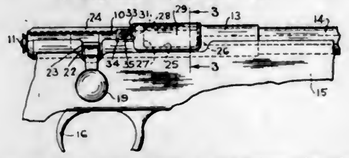
1. In a high tension transformer comprising a central core and an end yoke and concentric high and low voltage windings on said central core terminating short of said end yoke and providing an annular gap therebetween, a laminated insulating cylinder of substantially constant wall thickness concentric with and disposed in the gap between the windings in close contact with the surface of each and completely filling the gap therebetween, said insulating cylinder being formed with an end portion extending beyond the ends of said windings in the direction of said yoke, said extending end portion of the insulating cylinder having its laminations separated and spread out progressively from a point adjacent the end of the high voltage winding to the end of the insulating cylinder to form a plurality of integral axially spaced annular flange elements extending radially from the body of said cylinder over the end of the high voltage winding for shielding the same from the yoke, the over-all dimension across said flanges in the axial direction being at least twice the wall thickness of the laminated cylinder in the radial direction.

2,288,202

FIREARM

Harold F. Mossberg, New Haven, Conn., assignor to O. F. Mossberg & Sons, Inc., New Haven, Conn., a corporation of Connecticut

Application March 2, 1939, Serial No. 259,341
5 Claims. (Cl. 42—16)



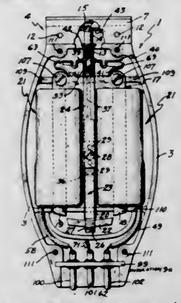
2. In combination with a receiver having an axially directed slot and a port opening therein, a bolt slidable in the receiver and an operating handle on the bolt and slidable in the slot in the receiver to slide the bolt forwardly and rearwardly through the receiver, a port cover comprising an arcuately shaped front portion freely overlying the receiver to cover the port opening therein when in one position, a rear portion adapted to slide in the slot in the receiver, means to secure the said narrow portion to said bolt and a portion extending downwardly through the slot from the rear end of the front portion to the front end of the rear portion to connect them together.

2,288,203

ELECTRIC RECIPROCATING MOTOR

Thomas J. Murphy, Stamford, Conn.

Application January 11, 1939, Serial No. 250,349
15 Claims. (Cl. 172—126)



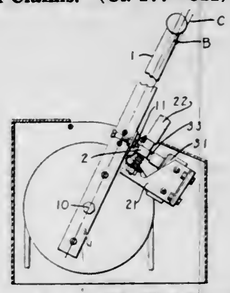
1. In a device of the character described, a reciprocating element, means for reciprocating the element comprising a magnetic core having spaced poles, a reciprocable armature associated with said poles, means for exciting the poles to reciprocate the armature, a supporting element of substantially U-shape having spring side arms and a connecting bar for said side arms, a stationary support, means for mounting the free ends of said arms on said stationary support, a supporting yoke having side arms connected at one end to the armature and at the other end to the connecting bar of the supporting element, and means for connecting said latter ends to the reciprocating element for operating it.

2,288,204

LANDING GEAR WARNING SWITCH CUTOUT

Albion I. Ostlund and John A. Minshull, Seattle, Wash., assignors to Boeing Aircraft Company, Seattle, Wash., a corporation of Washington

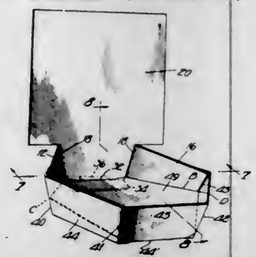
Application November 29, 1941, Serial No. 420,996
4 Claims. (Cl. 177—311)



1. In combination with the throttle lever of an airplane, movable in a fixed path between open and closed positions, and with the retractable landing gear, a signal, means to energize said signal if the throttle lever is moved substantially to closed position while the landing gear is retracted, said means including an actuator disposed in the path of the throttle lever,

but spaced sufficiently from the latter, in its closed position, that the actuator can not be operatively engaged for energization of the signal, a spacer member normally interposed between the actuator and the throttle lever, of a size to span the gap therebetween, for energization of the signal as the throttle lever substantially reaches closed position, a support for said spacer member permitting its movement at will from between the throttle lever and the actuator, to deenergize the signal at will, and means active upon reverse movement of the throttle lever to restore the spacer member immediately to its normal interposed position.

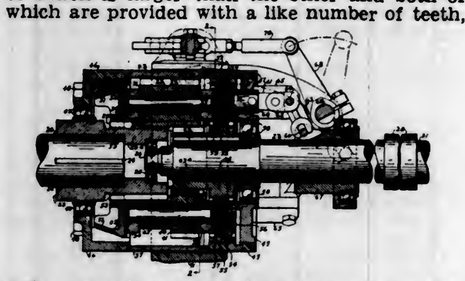
2,288,205
DISPLAY CONTAINER
Richard Eaton Paige, Flushing, N. Y.
Application May 19, 1939, Serial No. 274,582
1 Claim. (Cl. 229—41)



A collapsible container comprising a continuous side wall structure including a single front wall panel, a single back wall panel having a keeper opening therein, a hinged tab extending from the lower edge of the back wall panel, a tab or tongue projecting from the inner edge of the hinged tab in the direction of the keeper opening and forming the lower edge of the keeper opening side walls hingedly connected to the front wall panel and the back wall panel, said side walls each comprising a plurality of hingedly connected panels, a bottom wall, said bottom wall comprising a single panel hingedly connected to the front wall panel, a tongue projecting from the rear edge of the bottom wall panel, said bottom wall panel having a dimension in the direction of the side walls which is sufficiently greater than the distance between the side walls to prevent the bottom wall passing therethrough, whereby when the bottom wall panel is placed in bottom forming position, an outwardly directed pressure will be exerted upon the side walls, forcing them outwardly and thereby moving the front and rear walls towards each other to maintain the tongue of the bottom wall panel in the keeper opening of the back wall panel and by means of the weight of contents of the receptacle, to exert a downward pressure upon the tab or tongue which forms the lower edge of the keeper opening to rock the hinged tab upon the lower edge of the back wall panel into bottom supporting position beneath the bottom wall.

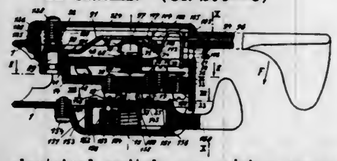
2,288,206
REVERSE GEAR
Douglas M. Pierpont, Hamden, Conn., assignor to The Snow & Petrelli Mfg. Co., New Haven, Conn., a corporation of Connecticut
Application June 30, 1938, Serial No. 216,644
24 Claims. (Cl. 74—298)

1. A reverse gear including a gear-train comprising in combination, two coaxial sun gears one of which is larger than the other and both of which are provided with a like number of teeth,



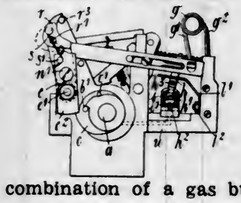
and a reversing gear-train interconnecting the two said coaxial gears in such manner as to cause one thereof to reversely drive the other.

2,288,207
ELECTRICAL SWITCH, PARTICULARLY FOR CONTROL OF WARNING AND LIGHTING DEVICES FOR VEHICLES
Henri Paul Marcel Quillery, La Garenne-Colombes, France
Application January 24, 1938, Serial No. 186,702
In France January 28, 1937
11 Claims. (Cl. 200—6)



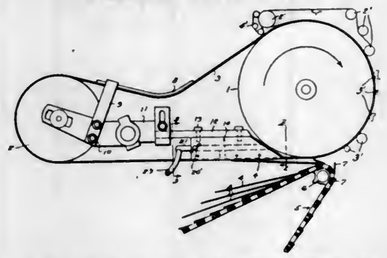
1. An electrical switch comprising supporting means, a fixed plate carried by said supporting means, a movable plate, means mounting said movable plate for rotation about an axis to occupy with reference to said fixed plate a number of angular positions, cooperating contact members carried by said plates, a control lever, means mounting said control lever for rotation from its inoperative position in one or the other direction about an axis substantially parallel with the first mentioned axis through an angle corresponding to the rotation of said movable plate from one position to the following one, a ratchet connection between said movable plate and said lever whereby said movable plate is adapted to be driven in one or the other direction by rotation of said lever in the same direction and from its inoperative position, and resilient means urging said lever to its inoperative position to which it is returned after each movement.

2,288,208
MEANS FOR CONTROLLING THE SUPPLY OF GAS TO BURNERS
Mechel Rabinowicz, London, England
Application May 6, 1939, Serial No. 272,274
In Great Britain May 10, 1938
11 Claims. (Cl. 158—117.1)



10. The combination of a gas burner, a gas tap for controlling the supply of gas thereto, automatic closing means connected to the gas tap, manual actuating means for the gas tap to enable the tap to be opened against the action of said closing means, a thermostat device located in the heating zone of said burner, a movable locking member for retaining the gas tap on the open position and abutment means for limiting the withdrawal movement of the locking member to the amount required to bring it out of its operative position, with actuating mechanism connected to said thermostat device and to said locking member for moving the locking member into and withdrawing it out of its operative position under the control of the thermostat device, said actuating means and locking member having teeth arranged for mutual driving engagement at least during the withdrawal of the locking member from its operative position, for ensuring the withdrawal of the locking member, and the actuating mechanism being movable relatively to the locking member during the continued heating and cooling of the thermostat device subsequently to the movement of the locking member into its operative and inoperative positions, respectively.

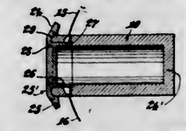
2,288,209
SUCTION HEAD
Benjamin Ray Sammons, Atlanta, Ga., assignor of one-half to The Atlanta Envelope Co., Atlanta, Ga.
Application December 20, 1941, Serial No. 423,827
3 Claims. (Cl. 271—3)



1. In a machine of the class described, the combination with a gum applying cylinder, a perforated conveyor belt for transporting blanks to be gummed around said cylinder downwardly and rearwardly and having a lower stretch extending horizontally rearwardly of said cylinder, of means to hold the leading edges of such blanks to the under side of said stretch comprising a block-like elongated suction head mounted above said lower stretch to extend lengthwise rearwardly from said cylinder with its bottom resting on said stretch, said head having a longitudinal central slot extending therethrough closed at its front end and opening at its bottom onto said stretch, and means to attach a suction line to said head to create suction in said slot, said means including a member closing the rear end of the slot and adjustable therein into different set positions to vary the length of the slot.

2,288,210
CORE TAKING PROJECTILE
Marcel Schlumberger, Paris, France
Application May 3, 1939, Serial No. 271,523. Renewed October 31, 1939. In France March 7, 1939
16 Claims. (Cl. 255—1)

1. A coring tool comprising a hollow member adapted to be driven into a formation, and an element detachably secured to the hollow member, said element having means extending outwardly from the said hollow member, for making a hole in a formation, of greater cross-sectional area than the outer cross-sectional area of the hollow member, and being adapted to be loosened by the impact of the tool with the formation in order to facilitate the removal of the hollow member from the formation.



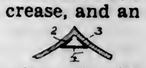
2,288,211
PROCESS FOR THE PRODUCTION OF BETA-ALKOXYALDEHYDES
Hermann Schulz, Neu-Isenburg, Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to Chemical Marketing Company Inc., New York, N. Y.
No Drawing. Application May 10, 1939, Serial No. 272,850. In Germany May 19, 1938
8 Claims. (Cl. 260—602)

6. A process for producing beta-alkoxy propional and beta-alkoxy alpha-methyl propional which comprises mixing an unsaturated aldehyde selected from the group consisting of acrolein and alpha-methyl acrolein with an aliphatic alcohol having not more than 6 carbon atoms in the molecule in the ratio of 1 part of aldehyde to about 1 to about 4 parts of said alcohol in the presence of water and of a quantity of concentrated hydrochloric acid amounting to about 15% of the weight of said unsaturated aldehyde during not more than about 2 hours and at a temperature of about 10° to about 20° C. to obtain a reaction mixture, stirring said reaction mixture at about 20° C., for not more than about three more hours to obtain a reaction mixture containing beta-alkoxy dialkyl acetal of said unsaturated aldehyde, adding a quantity of dilute hydrochloric acid which is about 20% of the weight of said unsaturated aldehyde and to provide a total quantity of acidic catalyst amounting to about 25% of the weight of said unsaturated aldehyde, hydrolyzing said reaction mixture in the presence of said acidic catalyst for not more than an additional 2 hours to obtain a reaction mixture containing beta-alkoxy derivative of said unsaturated aldehyde and beta-alkoxy dialkyl acetal of said unsaturated aldehyde, adding a quantity of sodium hydroxide and alkaline buffer salt sufficient to neutralize said reaction mixture, removing excess alcohol from said reaction mixture, extracting said residue with a solvent to obtain a solution containing said beta-alkoxy derivative and said beta-alkoxy dialkyl acetal and a solvent-insoluble residue, separating said solution containing said beta-alkoxy derivative and said beta-alkoxy dialkyl acetal from said solvent-insoluble residue and then separating said beta-alkoxy derivative of said unsaturated aldehyde.

2,288,212
CREASE CONSTRUCTION FOR TROUSERS
David Segelin and Solomon Segelin, Rochester, N. Y.
Application August 1, 1939, Serial No. 287,770
1 Claim. (Cl. 2—231)

In combination with a creased garment, of a tape, adhesive covered areas along the edges of

said tape attached to the back of the garment on each side of its crease, and an uncoated area in-



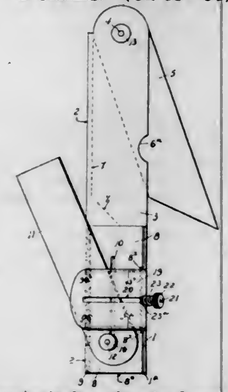
termediate the edges of said tape bridging the back of the garment crease at the rear of the coated areas of the tape.

2,288,213

CARPENTER'S FRAMING TOOL

Harry M. Smith, Seattle, Wash.

Application June 30, 1941, Serial No. 400,474
6 Claims. (Cl. 33—90)



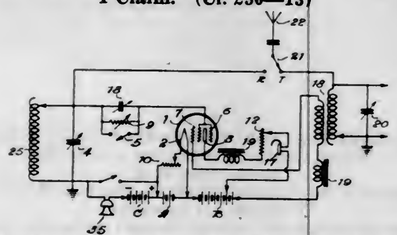
1. A carpenter's framing tool comprising a flat elongated body having a longitudinal straight edge and an end straight edge normal thereto, a leaf plate hinged along one longitudinal edge to the straight edge side of said body, the hinge joint forming a part of the first mentioned straight edge, said leaf plate having an end straight edge normal to the first mentioned straight edge and in the same plane as the first mentioned end straight edge, a slotted quadrant plate rigidly secured at one end to the edge of the body opposite the longitudinal straight edge of the body and projecting across the leaf plate, a stud bolt secured to said leaf plate and projecting through the slot of said quadrant plate, a thumb nut on said bolt to secure the leaf plate to the quadrant plate, and a cross-bevel plate pivoted to said leaf plate and lying flat against the same.

2,288,214

RADIO SYSTEM

Frank E. Summers, near Memphis, Mo., assignor to Radio Corporation of America, New York, N. Y., a corporation of Delaware

Continuation of application Serial No. 706,980, January 17, 1934. This application June 26, 1939, Serial No. 281,285
1 Claim. (Cl. 250—13)



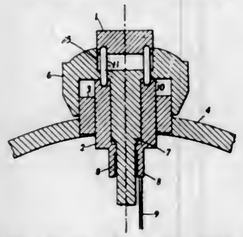
A regenerative receiving system and an oscillating transmitting system comprising an electron tube having a cathode, an anode, an inner grid, and an outer grid; a radio-frequency transformer having primary and secondary windings; aerial and ground wires; an anode circuit having said cathode, said anode, a telephone receiver and a source of electrical energy connected serially therein; an outer grid circuit having said cathode, a condenser, a radio-frequency inductance, a microphone, and a source of electrical energy connected serially therein, said condenser shunted by a non-inductive resistance element, and said radio-frequency inductance shunted by a tuning condenser which primarily determines the frequency of the radio-oscillations generated or received; an inner grid circuit having said cathode, said inner grid, the primary winding of said radio-frequency transformer, and a source of electrical energy connected serially therein, said secondary winding of said radio-frequency transformer tunable in resonance with said radio-frequency inductance of said outer grid circuit; and a two way switch means to selectively connect said aerial to the secondary winding of said radio-frequency transformer for radio transmission and to the said radio-frequency inductance for the regenerative reception of radio signals.

2,288,215

PUSHER DEVICE FOR CHRONOGRAPHS

Marcel Taubert, Paul Taubert, and Bernard Taubert, Geneva, Switzerland

Application November 3, 1938, Serial No. 238,620
In Switzerland June 21, 1937
2 Claims. (Cl. 58—74)



1. A pusher device for chronographs having in combination: a pipe mounted in a watch case; a pusher body mounted in said pipe; a winder stem mounted in said pusher body and formed at one end as a winder button, the under side of which is formed with a recess adapted to fit over the pipe and the top of which is formed with a further recess, a pusher button disposed in said last named recess; and pins extending from the upper recess to the lower recess in said winder button through corresponding openings formed therein, said pins being rigidly connected at their upper and lower ends to the pusher button and pusher body respectively so as to transmit movement of the pusher button to the pusher body.

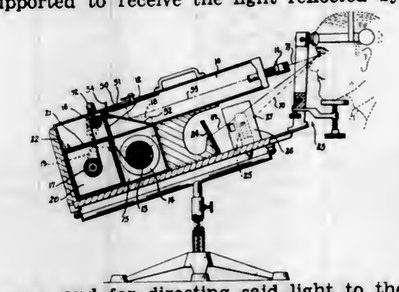
2,288,216

MEANS FOR RECORDING EYE MOVEMENTS

Edgar D. Tillyer, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application August 1, 1939, Serial No. 287,801
6 Claims. (Cl. 88—20)

1. A device for photographically recording the movement of an eye of a person comprising a dark chamber, means for supporting a moving film in said chamber with a portion thereof exposed to receive reflected light from the cornea of the eye of an individual whose eye movement is to be recorded, means for locating the head position of said individual relative to said dark chamber, means for directing a beam of light onto the cornea of the eye of said individual at said head position at an angle whereby the light reflected by said cornea may be directed to the chamber, a focusing member adjustably supported to receive the light reflected by the



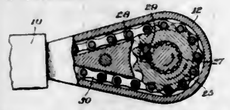
cornea and for directing said light to the exposed portion of the film, said light focusing means having an optical system consisting of a focusing lens and a prism and an adjacent block of glass of substantially equal optical path lengths, said block of glass being adapted to permit the reflected rays to pass therethrough with substantially no directional alteration and the prism being adapted to directionally change the path of light passing therethrough substantially 45°.

2,288,217

DOUBLE RATCHET WRENCH

Edmund C. Trautman, Seattle, Wash.

Application August 19, 1940, Serial No. 353,287
2 Claims. (Cl. 81—57)



1. In a wrench, a body having guideways, a spindle mounted for rotation within the body at one end of the guideways, a sprocket loosely mounted on the spindle, a ratchet coupling the sprocket to the spindle, a chain connecting with the sprocket and having its ends received within the said guideways, reciprocative means carried by the body and connecting with one end of the chain, a gear fixed to the shaft, and a pawl coupling the gear to the body, both said ratchet and said pawl overriding their respective gears when the spindle is rotated in one direction.

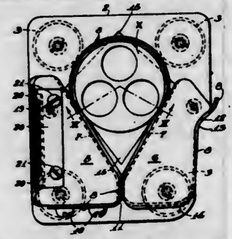
2,288,218

HOLDER FOR WORK OBJECTS

William B. Warren, Mount Lebanon, Pa., assignor to Fisher Scientific Company, Pittsburgh, Pa.

Application June 10, 1941, Serial No. 397,366
4 Claims. (Cl. 77—63)

1. A portable holder for work-objects which is adapted in use to be held by a single hand of the operator and suitable for light objects variable in diameter, said holder comprising a base member, a pair of spaced guide elements secured to said base member, said guide elements having opposed surfaces which are convergently disposed, means for supporting a work-object while disposed between said guide elements, a flexible strap adapted to form a loop between the opposed surfaces of said guide elements and to embrace the said work-object, and means for securing one end of said flexible strap against movement, the free end of said flexible strap being



adapted for extension between the convergent ends of said elements and having a further extended portion which is adapted to be held against the outer side of one of said guide elements by the same hand of the operator aforesaid.

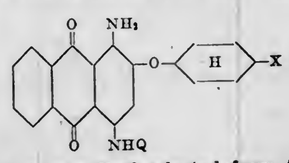
2,288,219

WOOL DYESTUFFS OF THE ANTHRAQUINONE SERIES

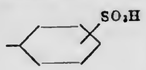
Klaus Weinand, Leverkusen-I. G. Werk, Germany, assignor to General Aniline & Film Corporation, a corporation of Delaware

No Drawing. Application May 3, 1939, Serial No. 271,508. In Germany May 7, 1938
4 Claims. (Cl. 260—373)

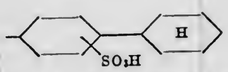
1. The compounds of the following general formula



wherein Q is a radical selected from the group consisting of



and



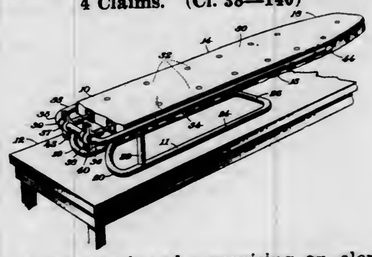
wherein X stands for a member of the group consisting of hydrogen and alkyl.

2,288,220

GARMENT PRESSING BOARD

Angelo Arabia, Bronx, N. Y.

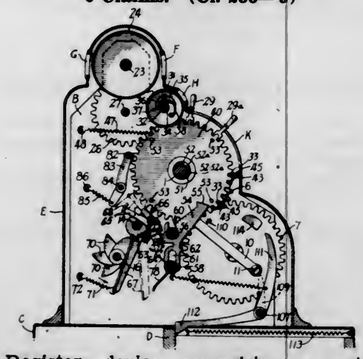
Application April 11, 1940, Serial No. 329,197
4 Claims. (Cl. 38—140)



1. An ironing board comprising an elongated panel having grooved longitudinal edges, means to support the panel spaced above a supporting

surface, a cover stretched over the upper surface of the panel and with the lateral marginal edges thereof overhanging the panel, arms pivoted to rock about a horizontal axis at one end of the panel and extending along the longitudinal edges thereof, and spring means connecting the pivoted ends of the arms and urging the same in the direction of the panel and into the said longitudinal grooves to wedge the marginal edges of the cover therein, the said cover being released by moving the arms outwardly against the resilient action of the spring means and pivoting the same out of alignment with the longitudinal edges of the board.

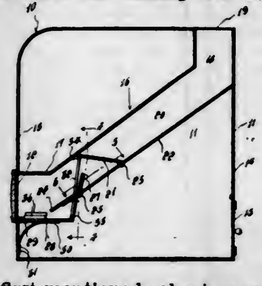
2,288,221
REGISTER DEVICE
Hilario Moreno Banuelos, Mexico City, Mexico
Application May 21, 1940, Serial No. 336,323
In Mexico June 2, 1939
6 Claims. (Cl. 235—9)



1. Register device comprising a rotatably mounted totalizer wheel, a manually adjustable trip, a rotatable pawl carrier arranged and adapted to be positioned normally by reference to the position of said trip, a pawl mounted on said carrier in position to be deflected out of operative position by said trip, means operable independently of said trip for rotating said carrier and therewith advancing said pawl, and a gear operatively connected to actuate said totalizer wheel and positioned to be engaged by said pawl when the latter is advanced by said trip whereby said gear is rotated with rotation of the pawl carrier by said independently, operable means to an extent determined by the selected operative tripping position of the trip.

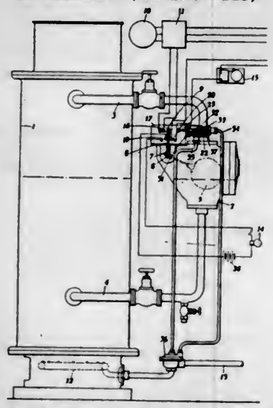
2,288,222
COIN RECEPTACLE
Herman S. Bockstein, Brooklyn, N. Y.
Application December 19, 1940, Serial No. 370,867
3 Claims. (Cl. 232—12)

3. A coin receptacle provided with a chute for the passage of coins into the receptacle, said chute having an open bottom, a platform disposed therebeneath, means for releasably holding the platform in a raised position to close the open bottom of the chute, a pivotally mounted valve disposed in the chute, means connecting the valve and platform, whereby the platform and valve will open and close simultaneously and so that the valve will be held normally in a closed position, by said first mentioned means, a second valve disposed in the chute, between the first mentioned valve and platform, said second valve being pivotally mounted in the chute and normally disposed in an open position, and a flange extending from the pivoted end of the second valve and arranged to be engaged by the first mentioned valve for closing the second valve



when the first mentioned valve is opened, and for releasing the second valve when the first mentioned valve closes to permit the second valve to return to a closed position.

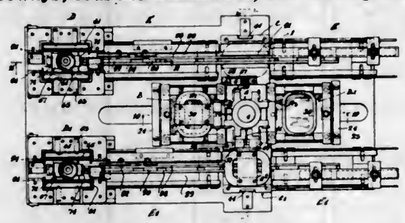
2,288,223
BOILER CONTROL APPARATUS
Leonard Bomyer, Slough, England, assignor to Ronald Trist & Co. Limited, Slough, England, a British company
Application May 13, 1940, Serial No. 334,930
In Great Britain May 19, 1939
12 Claims. (Cl. 122—448)



1. A steam boiler plant, comprising, in combination, a boiler, means for heating said boiler, control means arranged upon actuation at least to reduce the supply of fuel to said heating means, a float mounted to rise and fall with the liquid level in said boiler, a resiliently mounted armature connected directly with said float and arranged to actuate said control means mechanically as the float ascends, and a magnet towards and from which the armature moves operative to cause said armature to move with snap action on arriving at a position corresponding to the lower critical level in said boiler thereby to accelerate and make more positive the mechanical actuation of said control means by said armature.

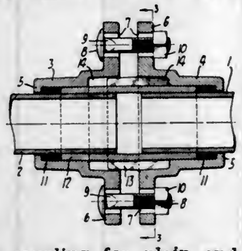
2,288,224
LINING MACHINE
Julius Brenzinger, Fairfield, Conn., assignor to The Max Ams Machine Company, Bridgeport, Conn., a corporation of New York
Application November 14, 1940, Serial No. 365,622
3 Claims. (Cl. 113—30)

3. In a lining machine, two spaced-apart and parallel can-end raceways; two can-end supporting platforms, one interposed in each raceway opposite to the other; two supply tanks, containing lining material, located intermediate the raceways; four mold members; and driving means



to cause two of said mold members to simultaneously apply lining material from said tanks to two can-ends, one on each platform, in alternation with the same action of the other two mold members.

2,288,225
PIPE COUPLING
Roger C. Boughton, San Francisco, Calif.
Application February 24, 1941, Serial No. 380,183
10 Claims. (Cl. 285—142)

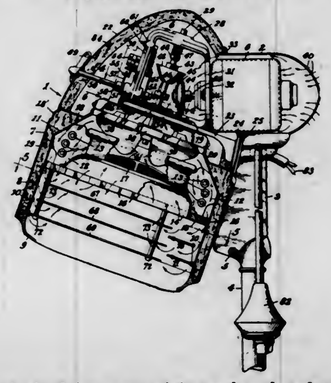


1. A pipe coupling for plain end pipe comprising: a tubular sleeve adapted to receive and enclose the adjacent ends of a pair of pipe lengths including relatively soft, compressible extensions at opposite ends of said sleeve adapted to embrace such lengths spaced from their adjacent ends; a pair of separable body members respectively formed with coaxial bores embracing opposite end portions of said sleeve including said extensions; a radially inwardly projecting annular flange on each of said body members outwardly of said extension engaging the axially oppositely outwardly facing outer ends of said extensions; said body members being movable toward each other to draw said flanges tight against said extensions for compressing the latter; means for so drawing said body members toward each other and rigid means formed integrally with said body members fully enclosing said sleeve against exposure to injury and supporting the said sleeve at its outer sides against bursting under internal pressure.

2,288,226
PHOTOGRAPHIC EMULSION
Burt H. Carroll and Charles F. H. Allen, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application February 29, 1940, Serial No. 321,594
20 Claims. (Cl. 95—7)

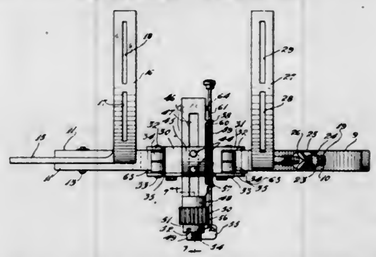
1. A photographic silver halide emulsion containing a polyonium salt which contains an onium salt group, selected from the group consisting of quaternary ammonium, quaternary phosphonium and ternary sulfonium salt groups, linked through its onium atom, by at least one bivalent organic radical, to the onium atom of another onium salt group, selected from the group consisting of quaternary ammonium, quaternary phosphonium and ternary sulfonium salt groups.

2,288,227
HAIR DRIER
Melville Clapp, Baldwin, N. Y., assignor to E. Frederics, Inc., Long Island City, N. Y., a corporation of New York
Application February 10, 1940, Serial No. 318,231
6 Claims. (Cl. 34—87)



1. A hair drier comprising a hood, a fan within the hood having its shaft extending lengthwise thereof, an air inlet at the upper end of the hood, a motor mounted at one side of the hood with its shaft extending at an angle to the fan shaft, a friction driving member mounted on the fan shaft, a complementary friction driving member mounted on the motor shaft for engagement with the first-named driving member, a heating element within the hood and a heat control switch therefor, and means for throwing one of said friction driving members into and out of engagement with the other, said means comprising a switch arm arranged to actuate said heat control switch simultaneously with engagement and disengagement of the driving elements.

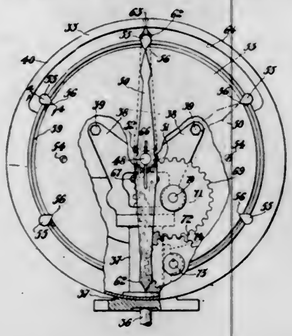
2,288,228
DEVICE FOR REPAIRING AUTOMOTIVE ENGINES
Tony De Biasse, Madison, N. J.
Application February 8, 1941, Serial No. 378,107
15 Claims. (Cl. 81—57)



1. In a device for repairing automotive engines, an arcuate guide rail, a carriage slidably mounted on said guide rail, a pinion carried by

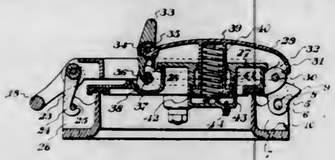
said carriage and adapted to engage the teeth of a flywheel of an engine, means to support said device from the underside of the crank case of an engine, means to prevent rotation of the pinion, and means to move the carriage along the guide rail.

2,288,229
INDICATING DEVICE
George M. Dick, Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application December 13, 1940, Serial No. 370,024
10 Claims. (Cl. 116—122)



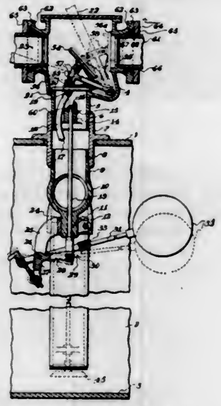
1. An indicating device for indicating the position of a load actuated by a cable-winding drum, comprising a holder having station indicators positioned thereon to correspond with stopping-stations for such load, a movable member, a driving device for moving the movable member from one station indicator to another, means for indicating a magnification of a space between the movable member and one of said station indicators as the movable member approaches each station indicator, and means acting in response to movement of the driving device for effecting intermittent movement of the last mentioned means.

2,288,230
GAUGE AND THIEF HATCH
Phillips B. Drane, Tulsa, Okla.
Application January 27, 1939, Serial No. 253,210
2 Claims. (Cl. 220—44)



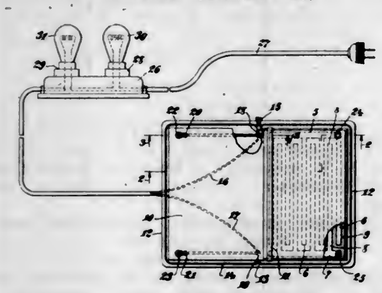
2. The combination with a relatively large yieldably mounted tank closure lid forming a valve cooperating with a valve seat carried by the tank and adapted to exhaust excess gas volume from the tank upon extreme expansion of material within the tank, of a relatively small yieldably mounted relief valve carried by the closure and cooperating with a valve seat carried by the closure surrounding a relatively small exhaust port and forming means whereby low pressures will be exhausted, means for opening said relatively small relief valve for access to the tank, a hinged hood carried by the closure, said small relief valve being connected to said hood, a latch carried by the free end of said hood, said latch cooperating with holding means carried by the closure for maintaining the hood in closed position and the small valve in yieldable engagement with its seat.

2,288,231
DIVERTING VALVE FLOAT CONTROLLED MEANS
Phillips B. Drane, Tulsa, Okla.
Application August 7, 1940, Serial No. 351,680
2 Claims. (Cl. 137—68)



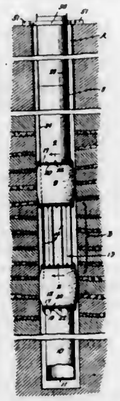
1. The combination with a float controlled valve having a push rod controlled by a rockable float arm having a float thereon, one end of the float arm extending beyond its hinging point, of adjusting and actuating means for the rod, said means comprising a bell crank lever adjacent the rod, one arm of the bell crank lever being connected to the rod and an adjustable connection between one end of the float arm and the other arm of the bell crank, said adjustable connection comprising a rock shaft in the bell crank arm, a rock shaft in the end of the float arm, an adjustable screw rotatably mounted in one of said rock shafts, said adjustable screw being threaded transversely through the other rock shafts.

2,288,232
ELECTRIC HEATING PAD
Edward A. Driscoll, Jamaica, N. Y.
Application June 9, 1941, Serial No. 397,166
8 Claims. (Cl. 219—46)



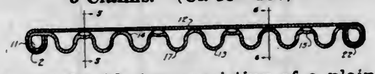
1. An electric heating pad, comprising a flexible pad of absorbent material, flexible conductors of opposite polarity confined in opposed spaced relation by the absorbent material of said pad and which material is electrically insulative-when-dry and conductive when wet, a flexible enclosure about said pad and including a folder and circuit completing means for said pad carried by said folder and cooperable to carry current to said conductors only when the folder is closed.

2,288,233
APPARATUS FOR INCREASING THE FLOW OF WATER IN ARTESIAN WELLS
Elmer D. Every, Rochelle Park, N. J.; Sara F. Every, Virgil F. Every, and Peoples Trust Company of Bergen County, executors of said Elmer D. Every, deceased, assignors, by mesne assignments, to Artesian Well & Equipment Co., Inc., Rochelle Park, N. J., a corporation of New Jersey
Application November 8, 1940, Serial No. 364,817
4 Claims. (Cl. 166—20)



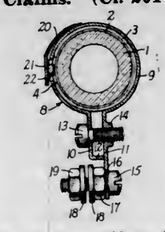
1. Apparatus for increasing the flow of water in a well including a casing of lesser diameter than the well and adapted to be positioned therein, said casing including an upper section extending from above the ground surface to a point adjacent to the upper portion of a localized area of the water bearing strata of said well, a lower section having a closed lower end and an open upper end disposed adjacent to the lower portion of said localized area and defining a receptacle within the lower section, and an intermediate ported section located at said localized area and secured at its opposite ends to the adjacent ends of said upper and lower sections respectively, expansible sleeves surrounding the lower end of said upper section and the upper end of the lower section respectively, means connecting and sealing the opposite ends of said sleeves to the casing sections respectively, means for conveying fluid to the space between the said sleeves and the casings respectively for expanding the sleeves into intimate contact with the surrounding wall of the well for closing off the space between the lower end of the upper casing and the upper end of the lower casing and the wall of the well adjacent said localized area, and plunger means adapted for reciprocation within the upper casing section under a fluid head therein for exerting pressure and suction in the ported portion of the casing and in the localized area of the well to force fluid into the crevices in the strata of the localized area and to withdraw the same therefrom so as to dislodge and remove rubble and agglomerate obstructing the free flow of the water through the crevices for collection of the rubble and agglomerate within the lower casing section.

2,288,234
METAL TABLE TOP
Thomas H. Fay, Willoughby, Ohio, assignor to Gridiron Steel Company, Cleveland, Ohio, a corporation of Ohio
Application December 12, 1939, Serial No. 308,787
5 Claims. (Cl. 38—137)



1. A metal table top consisting of a plain top sheet having a peripheral depending flange and having its surface slightly convex in contour, a bottom sheet corrugated longitudinally of the table top and having a complementary downwardly depending flange, said bottom sheet having the relatively horizontal portions of its upwardly extending corrugations formed with spaced depressed portions leaving spaced portions contacting said top sheet, said two sheets being rigidly united at such contacting portions and having the flanges rolled together to form a tubular reinforcing flange around the outer edge of the top.

2,288,235
ADJUSTABLE BAND RESISTOR
Andrew A. Foley, Camden, N. J., assignor to International Resistance Company, Philadelphia, Pa., a corporation of Delaware
Application September 14, 1940, Serial No. 356,720
5 Claims. (Cl. 201—63)

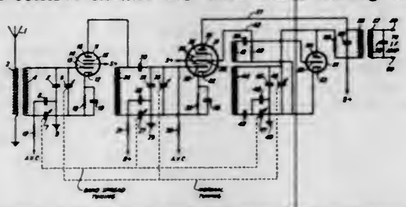


1. In resistor construction, in combination, a resistor, a bendable clamping band of substantially the same general shape as the cross section of said resistor, said clamping band when applied to said resistor fitting firmly thereabout and exerting pressure thereon, and a contact member resiliently mounted on said clamping band, the contacting portion of said contact member resiliently engaging the resistance element of said resistor, whereby the contacting portion of said contact member exerts a pressure on said resistance element substantially independent of the pressure exerted on said resistor by said clamping band.

2,288,236
TUNING ARRANGEMENT FOR RADIO SIGNALING APPARATUS
Alfred Leonard Green, Ashfield, New South Wales, Australia, assignor to Amalgamated Wireless (Australasia) Limited, Sydney, New South Wales, Australia, a company of New South Wales
Application April 11, 1941, Serial No. 388,040
In Australia April 12, 1940
13 Claims. (Cl. 250—20)

1. In a radio receiver, a tuning arrangement

comprising a plurality of tuning coils, each of said coils being shunted in its entirety by a series connected combination of a main tuning condenser and a band spread tuning condenser, uni-control means for said main tuning con-

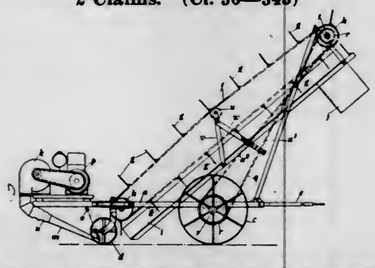


densers, additional and independent uni-control means for said bandspread tuning condensers, and means for connecting the junction points of said series connected condensers to a point of substantially zero radio frequency potential.

2,288,237
PROCESS FOR CONCENTRATING PHOSPHATE ORES
Ernest W. Greene, Plant City, Fla., assignor, by mesne assignments, to Phosphate Recovery Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application December 1, 1939, Serial No. 307,059
4 Claims. (Cl. 209—166)

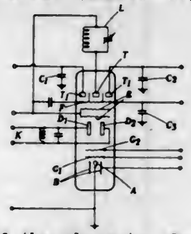
1. In a process for concentrating phosphate ore in which silica is contained, by selective flotation of the silica constituent, the steps which comprise desliming the ore, pre-treating the deslimed ore with a phosphate collecting reagent comprising a fatty acid and an alkali so proportioned with the ore as to leave the phosphate in substantially non-floatable condition, decanting the water from the thusly pre-treated ore, then conditioning the pre-treated ore in an aqueous pulp with a silica-collecting reagent comprising a high molecular weight alkyl amine so proportioned with the ore as to make the silica constituent floatable, subjecting the thus conditioned ore to a froth-flotation operation and removing the froth, and collecting the non-floated phosphate constituent of the ore as a concentrate.

2,288,238
GRASS OR HAY LIFTER
Charles Goodall, Hatton, England
Application November 12, 1940, Serial No. 365,361
In Great Britain January 30, 1940
2 Claims. (Cl. 56—345)



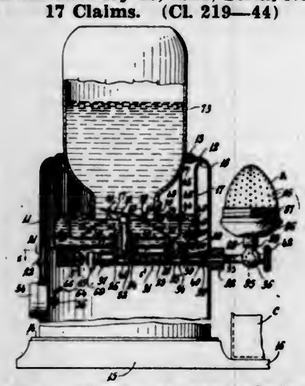
1. A grass or hay lifter comprising in combination a framework, a mechanical conveyor mounted on the framework and adapted to collect cut grass or hay from the ground and transfer it to another position, a blower also mounted on the framework and adapted to deliver a blast of air to the cut grass or hay lying on the ground for causing it to be engaged by the conveyor, and means for driving the blower and conveyor.

2,288,239
ELECTRON LENS AND DEFLECTING SYSTEM
John Henry Owen Harries, London, England
Application November 2, 1939, Serial No. 302,470
In Great Britain November 9, 1938
15 Claims. (Cl. 250—27)



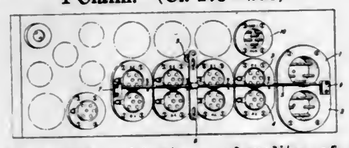
1. A device of the character described comprising an electron emitting cathode having a substantial effective emitting area, an accelerating electrode of mesh-like configuration spaced from the cathode by a distance small in comparison with the transverse dimensions of the cathode and maintained at positive potential relative thereto, a second electrode enclosing the path of electrons passing through said accelerating electrode, said second electrode being maintained at a mean potential positive relative to said cathode and being of substantially axially-symmetric configuration to produce a substantially axially-symmetric electrostatic field at high densities in the electron stream passing through said second electrode when the electron stream is undeflected, a further electrode permeable by electrons without substantial interruption thereof arranged in the electron path beyond said second electrode and maintained at higher positive voltage than said second electrode and an anode between which and said cathode are interposed the remaining electrodes.

2,288,240
BEVERAGE MAKING DEVICE
Henry F. Herman, Rye, N. Y.
Application January 17, 1941, Serial No. 374,843
17 Claims. (Cl. 219—44)



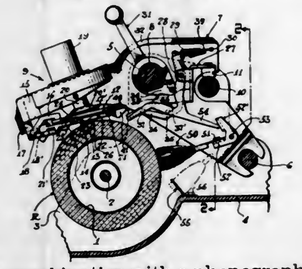
1. In a water heater, a receptacle for water to be heated having an outlet, means for heating water in said receptacle, a water supply receptacle having an outlet opening through the bottom to within the water heating receptacle, a valve for controlling the outlet of and discharge of water from the water supply receptacle adapted to automatically assume outlet closing position, and means operative to control the heating means and opening and closing of the outlet of the water heating receptacle, said means being operative when actuated to outlet closing position to actuate the valve for the outlet of the water supply receptacle to outlet opening position and permit delivery of a quantity of water from the water supply receptacle into the water heating receptacle determined by the level of water in the water heating receptacle and render the heating means inactive to heat water in the water heating receptacle, and when actuated to outlet opening position the valve for the outlet of the water supply receptacle automatically assuming position to close said outlet and shut off delivery of water from the water supply receptacle and render the heating means active to heat water in the water heating receptacle.

2,288,241
PROTECTIVE DEVICE
Arthur L. Holcomb, Tarzana, Calif., assignor to Western Electric Company, Incorporated, a corporation of New York
Application March 1, 1940, Serial No. 321,665
1 Claim. (Cl. 175—298)



In a control cabinet, a plurality of power supply receptacles, a plurality of groups of distribution receptacles each group of distribution receptacles being aligned with one of the power supply receptacles, a slotted abutment at each end of the line of receptacles, and a slidable bar supported in said slotted abutment and so disposed that in one position the said bar will partially cover and render inoperative one group of said receptacles and in the other position will partially cover and render inoperative the other group of said receptacles.

2,288,242
PHONOGRAPH
Charles Huenlich, Bloomfield, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application March 22, 1941, Serial No. 384,636
15 Claims. (Cl. 274—47)



1. The combination with a phonographic mechanism operable to record on a moving record, of a brush held in contact with the moving record to sweep the surface thereof free of dirt or loose particles; and means, associated with said mechanism and actuated intermittently in the course of a recording operation, for cleaning said brush of the sweeping collected thereby.

2,288,243
INDICATOR APPARATUS
Thomas Bertram Hyde, Chelmsford, England, assignor to Radio Corporation of America, a corporation of Delaware
Application January 9, 1941, Serial No. 373,777
In Great Britain January 30, 1940
3 Claims. (Cl. 88—24)



1. An indicator apparatus for measuring or indicating the angle of rotation of a rotatable member which is adapted for adjustment between two limiting positions through a range of substantially 180°, comprising a spindle coupled to the rotatable member and having rigidly fixed to or associated with it, a plurality of plane-reflecting surfaces having their reflecting faces passing through the axis of rotation of the spindle, the several reflecting surfaces being laterally disposed in the direction of the spindle axis and also angularly disposed relatively to each other through equal angles determined by the ratio of the range of adjustment and the number of reflecting surfaces; a source of light; a hair-line; means for focussing an image of said hair-line onto said surfaces; and a scale having a plurality of sub-scales equal to the number of plane reflecting surfaces placed one above another, the arrangement being such that images of the spot of light and hair line are reflected by only one of said surfaces at a time onto its corresponding sub-scale, said images being caused to travel across the several scales in sequence during the rotation of the rotatable member from one limiting position to another.

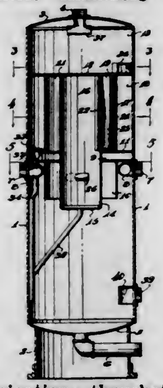
2,288,244
SPREAD COMPRISING ANIMAL BODY FAT
Stephan L. Komarik, Chicago, Ill., assignor to The Griffith Laboratories, Inc., Chicago, Ill., a corporation of Illinois
No Drawing. Application October 25, 1939, Serial No. 301,157
11 Claims. (Cl. 99—122)

1. The method of making an edible plastic spread which comprises mixing animal body fat with an edible flavoring material selected from the group consisting of cheese and peanut butter, whereby the fat absorbs material therefrom, and emulsifying the resulting mass with an emulsifier and water to form a plastic emulsion.

2,288,245
OIL AND GAS SEPARATOR
Edward C. Kopp, Fort Worth, Tex.
Application January 9, 1940, Serial No. 313,045
1 Claim. (Cl. 183—2.7)

In an oil and gas separator comprising a tank having an oil and gas inlet and outlets and diverters at the said inlets, multiple horizontal decks arranged in the said tank forming a gas outlet chamber in the top of the said tank, a central compartment and an oil pan, a cylindrical primary chamber arranged in the said tank

and adapted to depend below the lowermost of the said decks and having its bottom closed, a cylindrical baffle surrounding the lower end of the said primary chamber in the vicinity of the said diverters, tangential inlets in the said chamber within the said baffle, a cylindrical partition defining concentric chambers having narrow



vertical communications therebetween arranged in the said central compartment and having vertical baffles positioned in each of the said communications restricting the same, each of the said baffles being curved laterally of their longitudinal axes, and a louvered communication between the outermost of the said channels and the said gas outlet chamber.

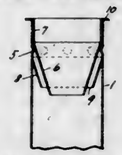
2,288,246
WHEEL MOUNTING
August F. Kuester, Clintonville, Wis.
Application October 3, 1940, Serial No. 359,589
2 Claims. (Cl. 280—124)



1. In a wheel mounting for a vehicle, a frame side beam, a pair of vertically disposed guide plates fixed to the outer face of said beam and having inner edges spaced apart and parallel and also spaced from said face, means spacing said plates from said face and forming together with said plates horizontal guideways between the ends of the plates, a pivot plate fitting between said edges of the pair of plates for vertical sliding movement and having upper and lower spaced guides fitting behind said edges of said plates to prevent outward movement of said pivot plate, said guides spacing said pivot plate from the outer face of said beam, spring means cushioning upward movement of the pivot plate, a walking beam pivoted intermediate its ends on said pivot plate behind the same for vertical oscillation in said space and in said horizontal guideways, and a pair of ground wheels journaled on opposite ends of said walking beam respectively.

2,288,247
VACUUM BREAKER
Werner Kunstorff, San Francisco, Calif.
Application May 27, 1940, Serial No. 337,449
3 Claims. (Cl. 137—111)

1. A vacuum breaker for a flush pipe comprising a vent in the wall of the flush pipe, an annular shield projecting from the inside of the pipe above the vent and having a reduced end extending below the vent, and means projecting from the pipe wall below the vent and forming a restricted passage with the lower end of the shield,



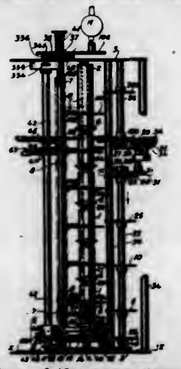
the restricted passage being disposed slightly above and spaced from the bottom of the shield so as to be remote from the normal flow of liquid passing through the flush pipe.

2,288,248
HEATING MEANS FOR GREASE GUNS
Harry L. Long, Oklahoma City, Okla.
Application October 7, 1940, Serial No. 360,186
7 Claims. (Cl. 219—39)



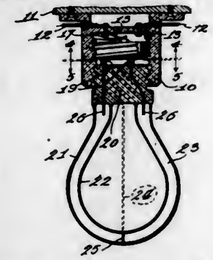
1. In combination with a grease gun having a grease conduit provided with hydraulic coupling means adapted for connection to a coupling on a bearing joint, a heating means constructed and arranged highly to heat the grease while within said conduit and immediately prior to its discharge through said coupling means.

2,288,249
CHANGE GIVING VENDING MACHINE
Karl Hilding Lundqvist, S. Hammarbyhojden, Stockholm, and Karl Matts Vigborg, Stockholm, Sweden, assignors to Kooperativa Forbundet Forening U. P. A., Stockholm, Sweden
Application April 3, 1940, Serial No. 327,606
In Sweden February 6, 1939
6 Claims. (Cl. 194—75)



1. In a machine of the type described having a rotary member, means to give to said rotary member a tendency for rotation in a predetermined direction, and a coin controlled summator including a rotary part normally coupled to said rotary member, said rotary part being normally held against rotation and being released upon the application to said summator of selected impulses, each representing a predetermined value, to permit a rotary adjustment of said rotary member through an angle proportional to the total value of the applied impulses, the combination of a mechanism for restoring said rotary member to a predetermined angular rest position, said restoring mechanism comprising a stop element adapted to assume alternatively a normal inoperative position and an operative position in which it arrests said rotary member whenever the latter, during its rotation in said predetermined direction, reaches said predetermined rest position, means, operative after each impulse-controlled adjustment of said rotary member to uncouple the latter for a predetermined length of time from said rotary part so as to permit further rotation of said rotary member in said predetermined direction, and control means for said stop element to shift the same at a certain early stage of each restoring operation to said operative position and to return said stop element to its inoperative position after the coupling between said rotary part and said rotary member has been restored.

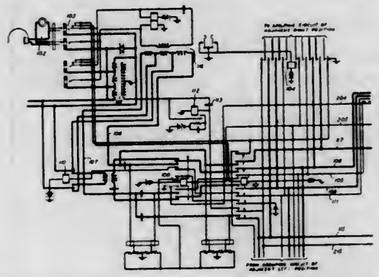
2,288,250
LUMINOUS VAPOR LAMP
Joseph Morley, Los Angeles, Calif., assignor of one-eighth to William Wilson, Los Angeles, Calif., as trustee, and one-eighth to Fred J. McKane, Los Angeles, Calif.
Application November 8, 1939, Serial No. 303,398
1 Claim. (Cl. 176—124)



In a luminous vapor lamp, the combination with a lamp socket provided with a threaded recess with contacts at the bottom of said recess and conductors connected to said contacts, of a separately formed externally threaded transformer unit seated in said socket, contacts on the inner end of said transformer unit for engaging the contacts in the recess in said socket, contacts on the outer end of said transformer unit, a screw plug seated in said socket, a lamp bulb integral with said plug, which bulb is provided with a chamber that is filled with gas that is rendered luminous by the passage of an electrical discharge therethrough, conductors embedded in said plug and having portions projecting into said gas filled chamber and contacts carried by the outer end of said plug, which contacts are connected to said conductors and are adapted to engage the contacts that are carried by the outer end of said transformer unit.

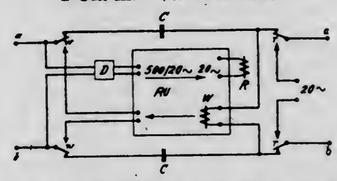
2,288,251
AUTOMATIC TOLL SWITCHING TELEPHONE SYSTEM
Paul B. Murphy, South Nyack, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 31, 1940, Serial No. 372,560
16 Claims. (Cl. 179—27)

1. In a telephone system, a plurality of operators' positions divided into two groups, a key-set circuit at each operator's position, two groups of signaling current sources one of which is normally connected with the key-set circuits of one of said groups of positions and the other of which is normally connected with the key-set circuits of the other of said groups of positions, and



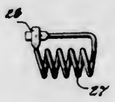
switching means for removing either one of said groups of sources from service and for connecting the other of said groups of sources to the key-set circuits of both groups of positions.

2,288,252
RINGING CIRCUIT FOR CARRIER FREQUENCY COMMUNICATION SYSTEMS
Herbert Nitz, Berlin, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application November 27, 1940, Serial No. 367,417
In Germany December 8, 1939
1 Claim. (Cl. 179—84)



In a carrier frequency terminal circuit, a line for receiving a carrier current modulated by a voice frequency ringing current, a line extending to a trunk position, a call translator for responding to said voice frequency ringing current and for controlling the application of a source of local ringing current to said last-mentioned line, an input circuit for said call translator, a demodulator having a high ohmic input resistance connected in the input circuit of said call translator, and a direct connection from the input circuit of said demodulator to said first-mentioned line.

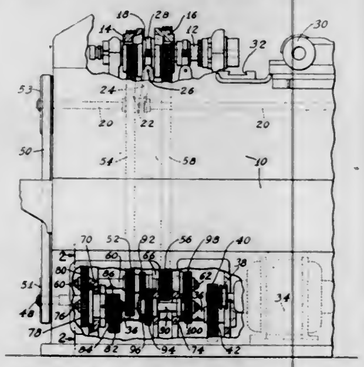
2,288,253
INTRODUCING MERCURY INTO VACUUM DEVICES
Edmund A. Reuter, East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 21, 1941, Serial No. 399,059
7 Claims. (Cl. 250—27.5)



1. A casing for the introduction of mercury into a discharge device comprising an elongated member having an interior longitudinal chamber and having means closing said chamber at

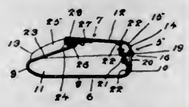
spaced parts thereof, said spaced closing means being secured externally with respect to each other.

2,288,254
SPINDLE DRIVING MECHANISM FOR SCREW AND SIMILAR MACHINES
Charles A. Rich and William E. Twamley, Providence, R. I., assignors to Brown and Sharpe Manufacturing Company, a corporation of Rhode Island
Application February 26, 1940, Serial No. 320,752
12 Claims. (Cl. 74—325)



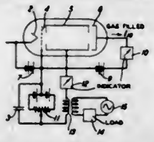
1. For use in automatic screw and similar machines, the combination with a work spindle, a pair of driven elements loose on said spindle, and means for clutching said driven elements alternatively to drive the spindle, mechanism for continuously driving said driven elements including a driving element having connection with one driven element, a second driving element having connection with the other driven element, a prime mover, gear connections including a pair of exchangeable spur gears for driving both of said driving elements from the prime mover at adjustable speeds, driving connections including a second pair of exchangeable spur gears locatable for driving one of said driving elements at adjustable speeds in alternate directions with relation to the other driving element, and supporting centers for each pair of spur gears including alternatively available reverse driving centers for said second pair of spur gears.

2,288,255
EYEGLASS CASE
James E. Ross, Affton, Mo.
Application June 10, 1940, Serial No. 339,802
3 Claims. (Cl. 206—6)



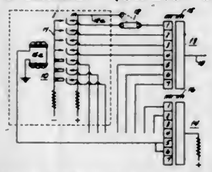
1. In an eye-glass case, a bottom section having a lip directed inwardly and upwardly from its front edge portion, a cover section pivotally connected to the bottom section and overlapping said lip, said cover section having an inwardly directed U-shaped recess in its front marginal portion, the base of said U being formed with an outwardly extending cavity throughout its extent, and a filling of friction material fitted in the cavity of the cover.

2,288,256
TRANSMISSION THROUGH SPACE DISCHARGE DEVICE
William G. Shepherd, Bayside, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 17, 1940, Serial No. 335,647
20 Claims. (Cl. 250—27)



1. The method comprising controlling the current between a first and a second electrode in a tube containing gas by establishing current flow between said electrodes and diverting current away from said second electrode by production of electron scattering in a region between said electrodes by collision between electrons and gas molecules, variably controlling the strength of the current diverted by such scattering, and utilizing the current so diverted.

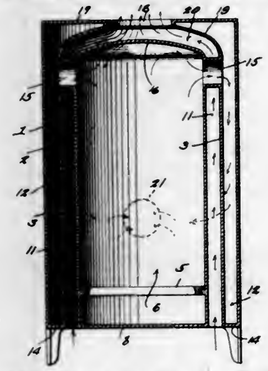
2,288,257
MEANS FOR PHASING DISTRIBUTOR BRUSHES IN PRINTING TELEGRAPHS
James A. Spencer, Teaneck, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 25, 1940, Serial No. 358,236
9 Claims. (Cl. 178—53)



1. In signaling systems for multi unit code signals, transmitting distributor switches, means for closing said switches in uniform cycles, means for sending signals of different sign through said distributor switches during the cycles thereof representing units of the characters of the message, means for altering the first means to cause it to send a phasing signal of one value at a predetermined point in each cycle and signals of another value at all the remaining points thereof.

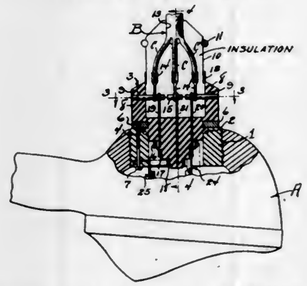
2,288,258
HOT AIR HEATING PLANT
Ira F. Ward, Golden, Colo.
Application October 29, 1940, Serial No. 363,372
1 Claim. (Cl. 126—67)

A heater of the class described, comprising a body or outer wall encasing the combustion chamber, and a horizontally circuitous air flue within the combustion chamber, the air flue being defined by inner and outer walls extending from bottom to top of the combustion chamber and being spaced apart throughout their entire surface area, the air flue and its defining walls surrounding the firebox or burner in the bottom of the combustion chamber and converging upwardly over the firebox to the center of the top of the outer or body wall of the heater, the air flue having a cold air inlet at its lowermost extremity encircling the firebox and a hot air outlet at its uppermost extremity in the center of the top of the heater, the inner air-flue wall being imperforate in its top and the outer air-flue wall having an opening in its top in conjunction with an opening in the top of the heater body, the opening being the outlet for the air-flue, the combustion chamber being divided by the air-flue into inner and outer portions, there



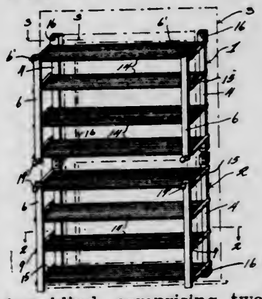
being egress means for the products of combustion to pass through the air-flue from the inner to the outer portions of the combustion chamber, there being an outlet for the products of combustion low in the body wall of the heater, both inner and outer air-flue walls throwing off heat by circulation and the body of the heater throwing off heat by radiation.

2,288,259
CONNECTING DEVICE FOR ELECTRICAL CONDUCTORS
Ricardo Gladulich, Rio de Janeiro, Brazil
Application July 26, 1940, Serial No. 347,735
In Brazil August 3, 1939
1 Claim. (Cl. 173—324)



In a swiveled electrical connecting device, a collar like base, a body rotatably mounted on the base and provided with an annular groove, a sectional ring secured to the base and mounted in the groove for detachably securing the body to the base, a substantially cylindrical upper member divided along the longitudinal center thereof to provide a pair of sections, said member having bores therein for receiving conductors and for disposal of the latter between said sections, said member being rockably mounted on the body, spaced aligned pins mounted within said member and between the sections, certain of the pins providing pivots for said member and extending through diametrically opposite sides thereof and mounted in the body, eyed terminals for the conductors and having the eyes thereof pivotally mounted on the pins, contact rings carried by the body, conductor strips having one end connected to the rings and their opposite ends terminating in eyes having the pins pivotally mounted therein, said member being slotted longitudinally and the strips being mounted in the slots to allow rocking movement of said member, and contact members fixed to the base and disposed in wiping engagement with the contact rings.

2,288,260
WINDOW BLIND
Burt Warren Touchstone, Haughton, La., assignor of one-third to Mathew J. Derryberry, Shreveport, La.
Application April 12, 1940, Serial No. 329,215
3 Claims. (Cl. 189—62)

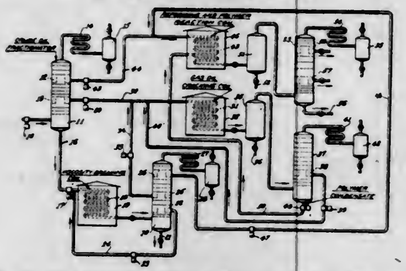


1. A window blind, comprising two pairs of spaced parallel bars, anchor members connected with and carrying one bar of each pair, said anchor members being designed for attachment to the sides of a window frame, a plurality of link members for each pair of bars, each of said link members comprising a relatively long center portion and angularly turned end portions, one end portion of each link member for each pair of bars being pivotally secured transversely of the said one anchor carried bar of each pair, the other angularly turned end portion of each link member being pivotally secured transversely of the adjacent other bar of the pair, each of the said other bars being longitudinally movable and pivotally connected with the adjacent anchor carried bar whereby the bars may be moved together and apart in their parallel relation, the link members of one pair of bars being disposed oppositely from the link members of the other pair of bars, and a relatively wide strip of elastic material connecting the central portions of each pair of link members and maintained in stretched condition therebetween and maintaining the connection between the anchor members and the bars engaged thereby.

2,288,261
TEXTILE PRINTING PASTE
John Abrams, Jersey City, N. J., assignor to Interchemical Corporation, New York, N. Y., a corporation of Ohio
No Drawing. Application March 18, 1941, Serial No. 383,925
4 Claims. (Cl. 8—70)

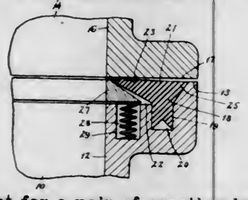
1. A textile decorating composition comprising an emulsion the inner phase of which is an aqueous liquid containing a vat dyestuff, and the outer phase of which is a water-immiscible bodying composition, and containing a phosphatide in quantity sufficient to substantially retard flushing of the vat dyestuff from the aqueous to the non-aqueous phase.

2,288,262
MANUFACTURE OF MOTOR FUEL
Harold V. Atwell, Beacon, N. Y., assignor to Gasoline Products Company, Inc., Jersey City, N. J., a corporation of Delaware
Application November 30, 1939, Serial No. 306,785
3 Claims. (Cl. 196—49)



1. In the manufacture of motor fuel, the process that comprises subjecting a naphtha stock in a reforming zone to cracking temperature adequate to effect reformation into gasoline constituents of increased anti-knock quality, subjecting a higher boiling charging stock of given boiling range in a separate cracking zone to cracking conditions of temperature and pressure to effect conversion into lower boiling hydrocarbons and higher boiling polymer products, separating the resultant cracked products into vapors and residue, fractionating the separated vapors to separate from lower boiling products a completely synthetic polymer product consisting essentially of constituents higher boiling than said higher boiling stock, directing said polymer product to said reforming zone for conversion and combination with reaction products of the reforming and subjecting the commingled constituents to conversion in the absence of any added constituents higher boiling than said naphtha stock, separating the resultant products of conversion from the reforming zone into vapors and residue, and fractionating the separated vapors to separate a gasoline product from a higher boiling completely synthetic condensate comprising polymer products of reaction and withdrawing the condensate as another product of the process.

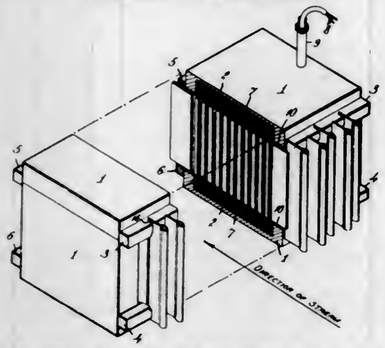
2,288,263
VULCANIZER PACKING
Henry C. Bostwick, Coventry Township, Summit County, Ohio, assignor to The Akron Standard Mold Company, Akron, Ohio, a corporation of Ohio
Application April 3, 1940, Serial No. 327,649
4 Claims. (Cl. 18—7)



1. A gasket for a pair of coacting butt-sealing members adapted to be carried by one of the members and bear against the other, said gasket having an annular substantially flat bearing face and having an annular stem, said stem being bounded by concentric cylindrical surfaces, and inward and outward flexible annular lips extending from said face to said stem, said lips being bounded by conical surfaces leading from the edge of the annular face to the respective cylindrical surfaces of the stem, whereby said gasket by reason of its stem may be seated and held in a groove in one of the members to be sealed while having inward and outward annular lips bearing against the other member.

2. Vulcanizer apparatus comprising separable casing parts having butt-seal marginal faces, an annular flexible rubber gasket having a stem portion seated in a groove in one of said margins, and having an inwardly extending sealing lip tapered toward the engaging face of the gasket, an oppositely-tapering metal ring of triangular section backing said lip, and spring means for yieldingly projecting the backing ring, said groove forming an annular channel and said stem having a pair of fish-tail sealing lips.

2,288,264
NONCHOKING MAGNETIC SEPARATOR
William Byrd, Jr., Princeton, N. J.
Application December 21, 1939, Serial No. 310,305
7 Claims. (Cl. 209—223)

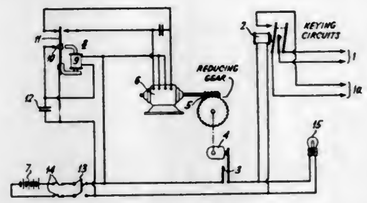


3. A magnetic separator which comprises a source of a magnetic field and a plurality of like attractor plates disposed in the magnetic field of said source and in parallel juxtaposed relation so as to form narrow channels for the flow of liquid between the adjacent parallel faces of the plates, each of said plates comprising a base of non-magnetic sheet material and a series of smooth-edged strips of magnetic material placed in contact with a surface of the base throughout their lengths, said strips being so placed that their lengths are substantially parallel with each other and with the surface of the base, said plates being disposed parallel to the direction of the magnetic field with the strips extending in a direction perpendicular to the field.

2,288,265
AUTOMATIC KEYING DEVICE
Irving F. Byrnes, Riverdale, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application February 14, 1941, Serial No. 378,881
2 Claims. (Cl. 178—66)

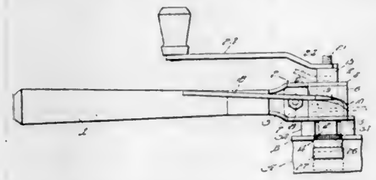
1. In an automatic keying device for radiant energy transmission of distress signals, a source of direct current, a fixed frequency vibrator of the electro-magnetic type operable from said source, said vibrator having contact members arranged to alternately close two circuit paths from one terminal of said source, an alternating current motor having windings connected to said circuit paths and to the other terminal of said

source, a reducing gear constituted by a worm driven by said motor and a gear driven by said worm, a cam rotatable by said reducing gear at a relatively slow angular velocity, said cam having a one-to-four ratio between the angles subtended by its maximum radius and its lesser



radii, contact elements operable to an open-circuit position by the cam periphery of maximum radius, and keying means including a relay energizable by periodic closure of said contact elements, during the relatively long periods of such closure as compared with the open-circuit periods.

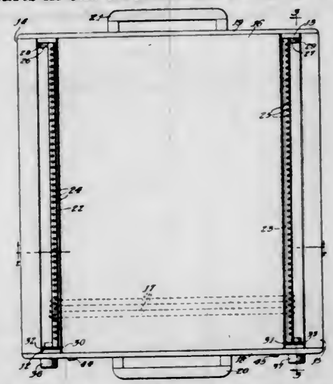
2,288,266
CAN OPENER
Herbert A. Berkman, Chicago, Ill., assignor to Zim Manufacturing Company, a corporation of Illinois
Application July 11, 1941, Serial No. 401,907
7 Claims. (Cl. 30—13)



1. A can opener comprising a handle member, a long sleeve extending transversely through and slidable lengthwise in one end of said member, a shaft extending through and rotatable in said sleeve, an operating member for said shaft on one end thereof, a feed roller on the other end of the shaft, means to move said sleeve lengthwise in either direction and to lock it in the position in which the feed roller is nearest said handle member, and a cutter mounted on said handle member in a position to cooperate with said roller, when the roller is nearest the handle, to open a can.

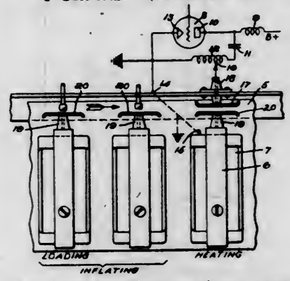
2,288,267
STRIP HOLDING DEVICE FOR DUPLICATING APPARATUS
William S. Cochran, Evanston, and Robert Alonzo Williams, Chicago, Ill., assignors to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia
Application February 3, 1941, Serial No. 377,144
17 Claims. (Cl. 101—415.1)

1. A strip holding device comprising a central portion providing a smooth writing surface, two shafts disposed at the sides of said central portion, said shafts being provided with pegs extending outwardly therefrom at opposite sides of said central writing surface, and means to rotate said shafts in the direction for carrying said pegs



outwardly so as to tension strips of paper placed on said central portion and engaging said pegs.

2,288,268
ELECTROSTATIC HEATING SYSTEM
Ervin L. Crandell, Wellesley, Mass., assignor to Compo Shoe Machinery Corporation, Boston, Mass., a corporation of Delaware
Application May 1, 1941, Serial No. 391,294
6 Claims. (Cl. 219—47)

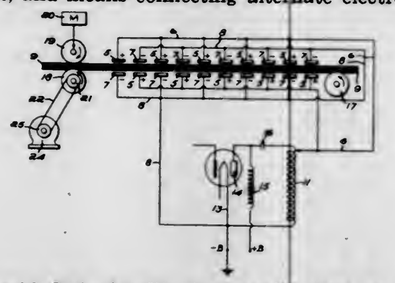


1. An electric heating system comprising an oscillator; a conveyor including a plurality of pairs of work circuit electrodes arranged to be advanced in succession for coupling to said oscillator; a stationary plate connected to one side of said oscillator; means for grounding the other side of said oscillator and one electrode of each of said pairs to said conveyor, and a plurality of movable plates connected to the other electrodes of said pairs and arranged to be advanced with their associated electrodes in substantially parallel alignment with said stationary plate to capacitively couple their associated electrodes to said one side of said oscillator.

2,288,269
ELECTROSTATIC HEATING APPARATUS
Ervin L. Crandell, Wellesley, Mass., assignor to Compo Shoe Machinery Corporation, Boston, Mass., a corporation of Delaware
Application June 4, 1941, Serial No. 396,593
12 Claims. (Cl. 219—47)

1. Electrostatic heating apparatus comprising a first plurality of electrodes arranged substantially in edge to edge alignment and adapted to be placed at one side of a work surface; a second plurality of electrodes arranged substantially in edge to edge alignment and adapted to be placed

on another side of said work surface; means forming a high frequency, electric oscillator circuit, and means connecting alternate electrodes

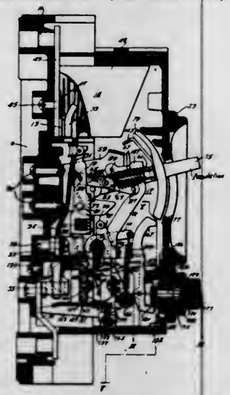


of said first plurality to opposite sides of said circuit and electrodes of said second plurality to the other side of said circuit.

2,288,270
CIRCUIT BREAKER

Hiller D. Dorfman, Forest Hills, and Gerald J. Freese, East McKeesport, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 22, 1941, Serial No. 407,884
19 Claims. (Cl. 200—89)



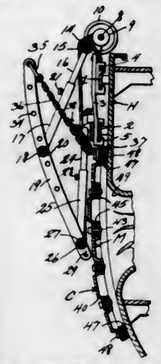
1. A circuit breaker comprising relatively movable contacts, operating mechanism therefor including an operating member movable to close said contacts, tripping means operable to cause opening of said contacts irrespective of the position of said operating member, and locking means movable to a locking position in which it is effective to prevent tripping of the breaker and in which it is also effective to prevent opening of said contacts by other than a tripping operation.

2,288,271
EMERGENCY APPARATUS FOR SHIPS

William P. Dickey, Ada, Okla.

Application June 15, 1940, Serial No. 340,823
7 Claims. (Cl. 114—227)

3. An emergency apparatus for closing a rent in a ship hull comprising a supporting structure, means for mounting such structure upon and exteriorly of the hull facilitating moving the structure from the bow to the stern of the hull, rock arms connected with the upper portion of such structure for up and down swinging movement on an axis extending substantially longitudinally of the hull, rock arms connected with the lower portion of said structure for up and down movement on an axis paralleling the first mentioned axis, elongated raising and lowering arms operatively connected with said rock arms to be swung, in upright position, around said axes, a breach mat, means for flexibly connecting the breach mat with the raising and lowering arms

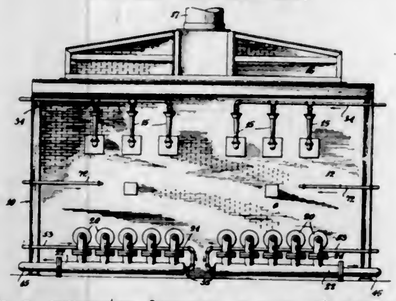


to be suspended therefrom, and releaseable means for holding the rock arms in an upwardly swung position, said arms and applied mat dropping by gravity upon release of said holding means, and said rock arms being in adjustably connected sections to facilitate longitudinally adjusting said rock arms as to length.

2,288,272
CONVERTER FURNACE

Charles T. Draney, Los Angeles, Calif.

Application May 31, 1940, Serial No. 338,148
1 Claim. (Cl. 196—116)



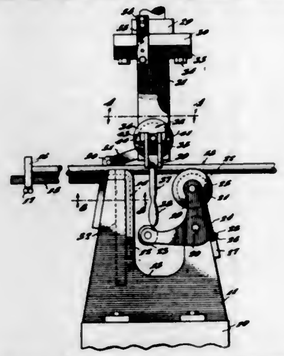
In a converter furnace, a row of converter tubes carrying hydrocarbon vapors arranged in a plane, a transverse outlet header connected across the ends of said tubes, and substantially coextensive therewith and communicating therewith to receive vapors therefrom and injector means in at least one end of said outlet header to introduce a quench fluid directly into the vapor stream therein as the vapors leave the converter tubes, and an outlet duct withdrawing vapors and quench fluid from said header at a point spaced from said injector means.

2,288,273
METHOD FOR FORMING HEATING COILS

Winford L. Enghauser, Cincinnati, Ohio, assignor to The Production Plating Works, Inc., Lebanon, Ohio, a corporation of Ohio

Original application December 5, 1938, Serial No. 243,908. Divided and this application November 17, 1939, Serial No. 304,984
1 Claim. (Cl. 153—33)

The method of forming a pipe structure consisting of the steps of: supporting a length of pipe toward its respective ends, engaging the intermediate and unsupported portion of the pipe by means of a forming roll, moving said forming roll downwardly to produce a reverse bend while supporting one of the runs by a lateral supporting surface disposed parallel with the movement of the roll and spaced therefrom by

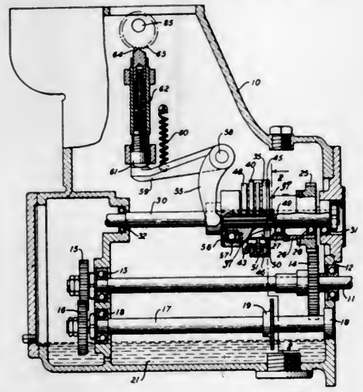


the diameter of the pipe, maintaining said one run supported as aforesaid and further moving said roll downwardly and simultaneously exerting a bending force on the other run to bend it further about the roll to create an offset loop, and engaging said last named run above the roller during formation of the loop to obtain a predetermined spacing between the upper portions of the runs.

2,288,274
ROTATABLE UNIT

Waldemar C. Ewaldson, Millington, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application April 2, 1941, Serial No. 386,398
7 Claims. (Cl. 192—113)

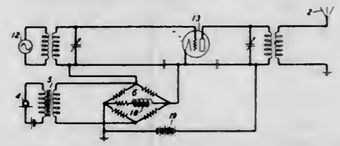


1. A rotatable unit in combination with a drive shaft, a driven shaft and means to force a supply lubricant in a definite path, the rotatable unit comprising a member mounted for rotation with the drive shaft, a member mounted for rotation with the driven shaft, means to cause relative movement of the members to cause frictional connection of the members, and an element rotatable with one of the members and formed to cut into the path of lubricant and remove quantities of the lubricant therefrom.

2,288,275
MODULATING SYSTEM

Enoch B. Ferrell, Oakhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Original application June 9, 1934, Serial No. 729,735, now Patent No. 2,159,020, dated May 23, 1939. Divided and this application June 3, 1938, Serial No. 211,548
19 Claims. (Cl. 179—171.5)

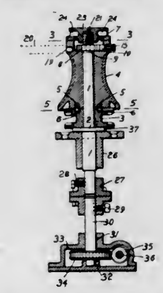


1. A modulating system comprising a vacuum tube having a cathode, a grid and a plate, a grid circuit and a plate circuit therefor, a carrier source coupled to the grid circuit, a bridge network, a signal source included in one diagonal of the bridge, and an impedance selective to low frequency included both in the other diagonal of the bridge and in the plate circuit of the tube, the grid circuit of the tube including a ratio arm of the bridge.

2,288,276
CAPSTAN OR LIKE HAULING MEANS

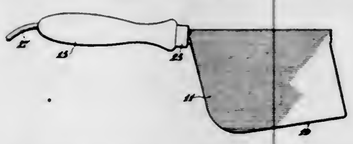
Rupert Francis Head, Burraneer Bay, near Sydney, New South Wales, Australia, assignor of one-half to Hoskins Estate Company Pty. Limited, Sydney, New South Wales, Australia, a company of New South Wales

Application September 4, 1941, Serial No. 409,455
In Australia November 5, 1940
3 Claims. (Cl. 254—150)



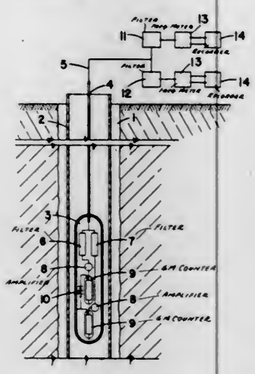
1. Capstan or like hauling means comprising a suitably journalled spindle upon which is loosely mounted a rotatable rope carrying barrel, said barrel having in its circumferential wall two or more spaced recesses to receive a tommy bar and also on its bottom face two or more spaced dowels, a gipsy wheel loosely mounted on said spindle below said barrel and having recesses in its upper face to cooperatively engage said dowels, a fixed collar associated with said spindle below said wheel, a ratchet wheel mounted on the upper portion of said spindle, a spring controlled pawl associated with said barrel and adjustable for cooperative action with said ratchet wheel, a tapped cap with flat bottom face adapted to cooperate with a flat upper face on said barrel and having two or more spaced recesses in its circumferential wall adapted to receive a tommy bar, the said cap also fitting the externally screw-threaded upper end of said spindle.

2,288,277
PRESSING DEVICE
John J. Getgey, Cincinnati, Ohio, assignor to Munny Manufacturing Company, Cincinnati, Ohio, a corporation of Ohio
Application October 23, 1939, Serial No. 300,756
3 Claims. (Cl. 219—21)



1. A creasing device, comprising, a blade having a tubular margin rolled back against the body of the blade, a second blade having its margin inserted between the rolled margin of the first blade and having a portion lying against the first blade, an ear on the tubular margin at one end for closing the tube, an obstruction on the second blade engaged within the rolled margin, a spur extending substantially parallel with the axis of the tubular margin but beyond the outline of the tubular margin, said tubular margin extended beyond the body of the blade, and a handle driven on said extended tubular margin and said spur embedded in said handle to prevent its rotation.

2,288,278
GAMMA-RAY WELL LOGGING
Lynn G. Howell, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application June 23, 1941, Serial No. 399,327
2 Claims. (Cl. 250—83.6)

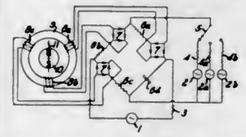


1. A method for logging boreholes by measuring gamma-ray intensity along the borehole by the use of a Geiger-Muller counter, which comprises lowering a plurality of Geiger-Muller counters in the borehole, isolating from the pulses generated by each counter a band of the frequencies contained in said pulses, said band so isolated being different for each counter and the various bands so selected as not to overlap, transmitting the bands so isolated to the surface through a single conductor, separating the bands at the surface, and separately recording a plurality of values each of which is a function of the frequency of the pulses of an individual counter.

2,288,279
SUPERPOLYAMIDE-FORMALDEHYDE REACTION PRODUCT
Heinrich Hopff, August Weickmann, and Hanns Ufer, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to E. I. du Pont de Nemours and Company, Wilmington, Del.
No Drawing. Application December 13, 1939, Serial No. 309,031. In Germany December 15, 1938
6 Claims. (Cl. 260—72)

1. A process for producing polymeric condensation products which comprises dissolving in formic acid a substance of the class consisting of synthetic linear superpolyamides and reacting material producing said superpolyamides, and reacting the solution thus obtained with formaldehyde, said superpolyamide being the reaction product of reacting material selected from the class consisting of polymerizable monoaminomonocarboxylic acids and mixtures of diamine and dibasic carboxylic acid.

2,288,280
SYNCHROSCOPE
Frederick W. Hornbruch, Jr., Roselle Park, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application June 24, 1940, Serial No. 342,152
6 Claims. (Cl. 172—245)



1. In a synchroscope for indicating the frequency and phase relations between the currents developed by two single phase alternating current generators, a bridge network having three side arms including one type of reactance and a fourth side arm including another type of reactance, the sets of opposed junction points of the network serving as input terminals for connection to the respective generators, and means responsive to the cyclic change in the magnitude of the current flow in the several side arms around the bridge network to indicate the speed and direction of motion of the current peak around the bridge network.

2,288,281
PROCESS FOR SEPARATING MIXTURES OF CHEMICALLY RELATED SUBSTANCES
Hendrik Willem Huijser and Albert Schaafsma, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application May 29, 1939, Serial No. 276,490
In the Netherlands June 10, 1938
8 Claims. (Cl. 260—593)

1. In the process of separating a mixture of ketones comprising components of relatively high and low reactivities toward bisulfites, the steps comprising countercurrently extracting said mixture with an aqueous solution of a bisulfite and an organic solvent for said ketones, which solvent is substantially immiscible with said aqueous solution, under conditions to form addition compounds of the bisulfite with the more reactive components only and to form two liquid layers, one comprising an aqueous solution of said addition compounds, and the other comprising said organic solvent containing unreacted ketones of relatively low reactivity and separating the layers.

2,288,282
PROCESS FOR PRODUCING POLYHYDROXYARYLSULPHONES
Johann Huismann, Leverkusen-Wiesdorf, Germany, assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application February 6, 1941, Serial No. 377,659. In Germany February 12, 1940
2 Claims. (Cl. 260—607)

1. Process for producing polyhydroxyarylsulphones of the general formula:

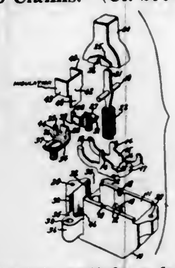
$$[R—SO_2—R_1—(SO_2—R_2)_m]—OH)_n$$

wherein R and R_2 stand for radicles of the benzene series, R_1 stands for a radicle selected from the benzene and diphenyl series, m means one of the numbers zero and one and n means one of the numbers two, three and four, which process consists in subjecting polyhalogenarylsulphones of the general formula:

$$[R—SO_2—R_1—(SO_2—R_2)_m]—hal_n$$

wherein R, R_1 and R_2 and m and n have the aforesaid signification and the halogen atoms stand in ortho and para positions to a SO_2 group, to the action of a caustic alkali in the heat.

2,288,283
ELECTRIC SWITCH
Philip Hutt, New Haven, Conn., assignor to General Electric Company, a corporation of New York
Application August 29, 1940. Serial No. 354,700
5 Claims. (Cl. 200—67)

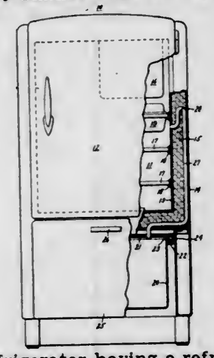


1. In an electric switch, a housing of insulating material having opposite walls defining a recess, each of said walls being provided with a slot, a stationary contact member having edge portions located in a respective slot and having a contact surface extending into the recess, said contact surface being offset from the edge portions to form a ledge, an insulating member having a web portion and spaced arms extending at right angles thereto, the arms resting on the ledge portions of the stationary contact members in the spaces between the contact surfaces and the edge portions with the web portion extending between the respective contact members, means secured to said housing and bearing against said insulating member for maintaining said contact members in fixed position on the housing, and movable contact means within the recess cooperating with the fixed contact members for controlling a circuit through the switch.

2,288,284
COFFEE EXTRACT
John L. Kellogg, Chicago, Ill., assignor, by mesne assignments, to John L. Kellogg & Co., Chicago, Ill., a corporation of Illinois
No Drawing. Application January 21, 1941, Serial No. 375,542
12 Claims. (Cl. 99—71)

1. Improvement in the process of making a beverage, of the coffee type, from roasted vegetable material to improve the flavor and aroma of the beverage made therefrom which comprises: mixing with said material a small amount of a hydrogenated edible oil.

2,288,285
DEHYDRATOR
James L. Knight, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application April 12, 1941, Serial No. 388,281
9 Claims. (Cl. 62—89)



1. In a refrigerator having a refrigerated compartment and a cooling element disposed therein, a substantially air-tight receptacle associated with said refrigerator cabinet, and means communicating between the interior of the compartment and the interior of the receptacle for permitting the passage of water vapor from the receptacle to the refrigerated compartment, said means being constructed and arranged in such a manner as to prevent the collection therein of moisture dripping from said cooling element, the walls of said compartment, or articles stored in the compartment.

2,288,286
FASTENING DEVICE
Frederick Kohnle, Dayton, Ohio, assignor to The Monarch Marking System Company, Dayton, Ohio, a corporation of Ohio
Application January 29, 1940, Serial No. 316,155
1 Claim. (Cl. 85—32)



A fastening device for attaching two elements together, said device comprising a screw threaded stud extending from and fixed to one element to be attached, a tubular retaining element fixed on the other element to be attached, the bore of said tubular retaining element including a shoulder, said screw threaded stud extending into said bore

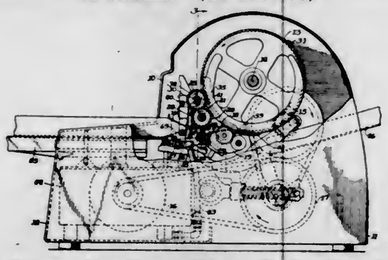
beyond said shoulder, said tubular retaining element including a portion extending axially from and adjacent the shoulder, said other element to be attached including a countersunk portion, said portion extending axially from the tubular retaining element and being swaged into said countersunk portion and thereby presenting a flush surface in conjunction with said last mentioned element to be attached when held against the other element to be attached, the shoulder of said countersunk portion lying against the underside of the shoulder of the tubular retaining element, a thrust washer lying against the upper side of the shoulder, a nut rotatably mounted within the tubular retaining element and engaged on the screw threaded stud and against the washer, and means for maintaining said nut against axial displacement from the tubular retaining element.

2,288,287

SHEET POSITIONING MEANS

Stephen Kokay, Chicago, Ill., assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia

Application August 4, 1941, Serial No. 405,337
13 Claims. (Cl. 271—53)



1. In combination with a feed roller for a duplicating machine, stop means against which a copy sheet may be positioned including a stop member slidably disposed in said feed roller, and means to urge said stop member outwardly so that a portion thereof projects outwardly beyond the surface of said feed roller, the outermost portion of said stop member being formed of shock absorbing material.

2,288,288

LUBRICATING OIL

Bert H. Lincoln, Ponca City, Okla., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application August 26, 1938, Serial No. 226,963
1 Claim. (Cl. 252—44)

A lubricant comprising in combination a major proportion of an oil of lubricating viscosity and a minor proportion of diethylarsenic phenylstearate.

2,288,289

LUBRICANT

Bert H. Lincoln, Gordon D. Byrkit, and Waldo L. Steiner, Ponca City, Okla., assignors, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application April 17, 1940, Serial No. 330,084
6 Claims. (Cl. 252—35)

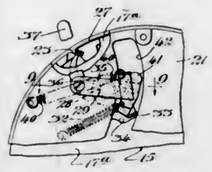
1. A lubricant comprising a major proportion of an oil of lubricating viscosity and a minor proportion of a stannic salt of an organic acid bearing at least one aromatic ring.

2,288,290

SHEET CLAMPING MEANS FOR DUPLICATING MACHINES

Alfred Marchev, La Grange, Ill., assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia

Original application March 9, 1940, Serial No. 323,164. Divided and this application July 16, 1941, Serial No. 402,570
11 Claims. (Cl. 101—409)



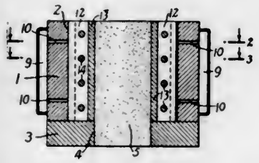
1. In a mechanism of the type described, the combination of a drum comprising a cylindrical wall portion supported between end plates with an outwardly open groove in the outer face of the cylindrical wall portion longitudinally of the drum, a bar mounted loosely in said groove adacent to the face of the drum with its outer face portion notched at the ends, circumferentially extending lugs on said end plates adapted by engagement with the notches in the bar to hold the bar loosely in position, and means normally pressing said bar against one face of the groove for holding a master sheet releasably in position in the groove.

2,288,291

METHOD OF FORMING CUTTERS

Wayne E. Martin, Bayside, N. Y.

Application April 23, 1941, Serial No. 389,858
3 Claims. (Cl. 22—116)



1. The method of forming a cutter consisting of a metallic base and tool steel cutter blades in a mold including a die and a spaced core, which consists in holding the blades in the die by means of a suction, in their ultimate relation to each other and with their base portions extending into the space between the die and the core, pouring a molten base metal into said space to embrace said blades and allowing the said base to cool.

2,288,292

MAGAZINE PENCIL ASSEMBLY

Hans Maucher, New York, N. Y., assignor, by mesne assignments, to Samuel Jacobs and Jules Jacobs, New York, N. Y., copartners doing business under the firm name and style of Norma Multikolor

Application October 29, 1940, Serial No. 363,251
14 Claims. (Cl. 120—14)

1. A multi-color pencil, comprising in combination, a casing provided with longitudinal slots,

channel guides provided with yieldable means engageable with the casing, and lead carriers



nested in said guides and shiftable through said slots into operative and inoperative positions.

2,288,293

MANUFACTURE OF LAMINATED PAPER, CARDBOARD, AND THE LIKE

Colin Metcalf, Wilmslow, England

No Drawing. Application July 6, 1939, Serial No. 283,065. In Great Britain July 21, 1938
4 Claims. (Cl. 154—40)

1. A method of manufacture of a laminated product of paper, cardboard and the like which comprises providing a liquid cementitious composition consisting essentially of an aqueous emulsion of a substance taken from the class consisting of pitch and bitumen having incorporated therein a sufficient amount of rubber in the form of latex to check migration of said substance through the individual layers of said product but insufficient to impair the adhesiveness of said substance, said amount being between about 10% and 25% based on the dried deposit of the whole cementitious composition, the amount of water in the composition being such that the same adheres to a sheet without any substantial amount of penetration, the latex containing from 35%–70% of rubber, applying said composition to one side of a sheet of said material by pressing the viscous mass onto the same, and pressing a plurality of such sheets together to cause the same to adhere.

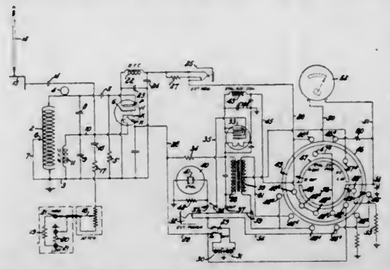
2,288,294

ULTRA HIGH FREQUENCY OSCILLATOR

Oliver James Morelock, Short Hills, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey

Application October 18, 1939, Serial No. 300,050
7 Claims. (Cl. 250—17)

1. An ultra high frequency oscillator comprising a vacuum tube having as elements thereof a cathode cooperating with a grid and plate, current sources for establishing energizing potentials between the tube elements, a condenser bypassing said plate to a grounding point for the oscillator frequencies, a pair of fixed tuning condensers serially connected between the grid and the grounding point, a connection from the junction of said tuning condensers to the cathode, a continuously variable inductance connected across said tuning condensers to form therewith an oscillatory circuit tunable over a range of frequencies, a voltage attenuator resistance network having output terminal means for receiving connections from external circuits, and means connecting said network to said oscillatory circuit to develop at said output ter-



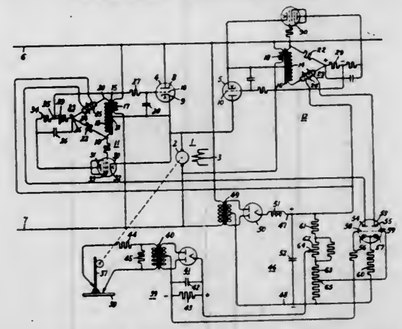
minal means a voltage output that is substantially independent of the tuning of said oscillator circuit, said connecting means being a capacitor.

2,288,295

ELECTRIC VALVE CONTROL CIRCUIT

Elmo E. Moyer, Scotia, N. Y., and Charles V. Bullen, Lubbock, Tex., assignors to General Electric Company, a corporation of New York

Application October 31, 1940, Serial No. 363,714
14 Claims. (Cl. 172—239)



1. In combination, an alternating current circuit, a load circuit, electric translating apparatus connected between said circuits and comprising an electric valve having an anode, a cathode and a control member, means for impressing on said control member an alternating voltage of variable phase displacement relative to the voltage of said alternating current circuit and comprising a static impedance type phase shifting circuit including a variable impedance element, means for controlling said variable impedance element, and means for superimposing on said alternating voltage a variable unidirectional component of voltage comprising a resistance and an electric discharge device for transmitting variable amounts of unidirectional current through said resistance and having an anode-cathode circuit and a grid circuit energized in accordance with variable phase voltages derived from said phase shifting circuit.

2,288,296

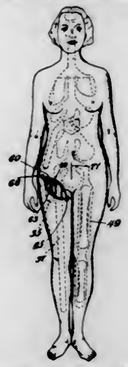
DOLL

Harold W. Munro, Providence, R. I.

Application November 19, 1940, Serial No. 366,249
9 Claims. (Cl. 35—17)

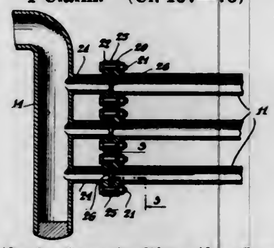
1. The method of operating on a doll having a hollow rubber-like body and internal parts

within, which consists in slitting the rubber-like body, binding the ends of the slit against tear-



ing, and spreading the slit for access to the interior.

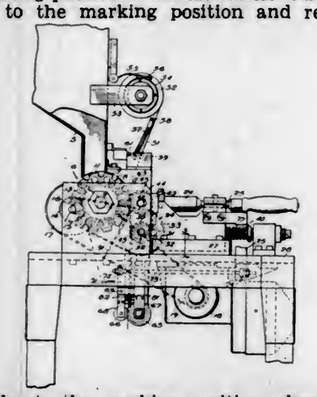
2,288,297
METHOD FOR CONTROLLING THE FLOW OF GASES
Julius M. Naiman, Detroit, Mich.
Application April 2, 1940, Serial No. 327,472
1 Claim. (Cl. 137—78)



The method of controlling the flow of gases through a bank of tubes having flow restricting inlet orifices and connected in parallel between an inlet and an outlet header and in which each of such tubes is subject to varying flow resistances during operation and in a manner such that the flow through each individual tube will be constant regardless of such variations in flow resistance, which method comprises maintaining a constant high pressure in the inlet header and a sufficiently low pressure in the outlet header that the pressure differential across each of said orifices is always sufficient to maintain the differential required for critical flow velocity conditions through each of said orifices notwithstanding variations in flow resistance in any or all of said tubes.

2,288,298
APPARATUS FOR MARKING ARTICLES
Hollis W. Norman and Richard Stech, Govans, Md., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application September 6, 1940, Serial No. 355,622
4 Claims. (Cl. 101—38)

1. An apparatus for marking articles comprising a drum for rotatably supporting articles to be marked, means for intermittently rotating said drum to carry an article to a marking position, a continuously rotating marking roller, means for feeding a marking tape between said marking roller and an article to be marked, means for retracting said marking roller from the marking position while an article is being advanced to the marking position and returning



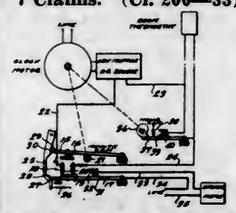
said roller to the marking position when an article has reached the marking position, and means for operating said tape feeding means only while said roller is in the marking position.

2,288,299
COMBINED COMB AND THINNING RAZOR
Vincent R. Pileggi, Philadelphia, Pa.
Application October 3, 1940, Serial No. 359,470
3 Claims. (Cl. 30—31)



2. A thinning razor guard and comb holder comprising a plurality of spaced edges at one end, a key adapted to lock a comb in position at the other end, a concave recess having an overlapping spaced flexible arm whereby said guard may be attached to a handle, said guard having a plurality of cut-outs in the upper portion thereof in order to impart flexibility to said guard.

2.288,300
CONTROL MECHANISM
William A. Ray, Glendale, Calif.
Application January 13, 1941, Serial No. 374,303
7 Claims. (Cl. 200—33)



1. In a control device: a first and a second independently movable member; means for periodically moving said first member in one direction toward said second member and in another direction away from it; said second member being biased away from said first member to a first position; means for causing said second member to be moved against the force of said bias to a second position along with said first member

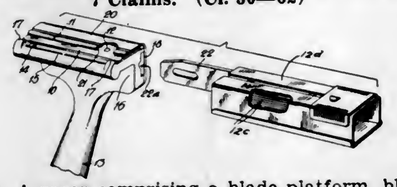
when the same is moved in said other direction, said last-named means comprising electromagnetic means associated with the members and effective only when the members are first brought into proximity with each other and the electromagnetic means is energized; means for preventing substantial subsequent movement of said first member by said periodic means when said second member is in said second position; and control means operated by the movement of said second member.

2,288,301
RAZOR
John R. Reyburn, Fairfield, Conn., assignor to Magazine Repeating Razor Company, New York, N. Y., a corporation of New Jersey
Application October 31, 1940, Serial No. 363,638
5 Claims. (Cl. 30—75)



1. A safety razor comprising a blade platform, a resiliently mounted blade aligning member normally projecting above the surface of the platform and adapted to enter an aperture in a blade and definitely locate the blade on the platform, the said aligning member having a portion sloping upwardly and in the longitudinal direction in which a blade travels when driven endwise along the platform.

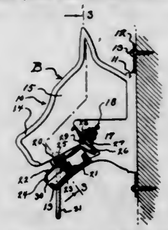
2,288,302
RAZOR
John R. Reyburn, Fairfield, and William H. Ebelhare, Nichols, Conn., assignors to Magazine Repeating Razor Company, New York, N. Y., a corporation of New Jersey
Application March 29, 1941, Serial No. 385,904
7 Claims. (Cl. 30—62)



1. A razor comprising a blade platform, blade stops associated with the platform, a blade clamping plate mounted for motion toward and from the stops and pressing resiliently toward the blade platform, said clamping plate being provided with a recess on the side facing the blade platform, a blade provided with a protuberance projecting from one face thereof clamped between the clamping plate and the blade platform, the protuberance and the recess being in engagement with each other.

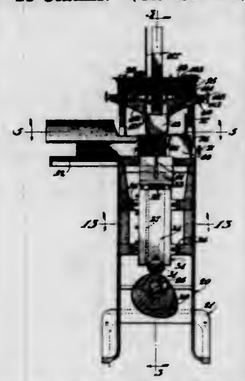
2,288,303
BRACKET
Rose M. Ryan, Robert M. Ryan, and Parnell C. Ryan, Waukesha, Wis.
Application March 8, 1941, Serial No. 382,348
2 Claims. (Cl. 248—316)

1. A device for suspending articles from a wall or other surface comprising, a bracket including a body portion, means carried by the rear end of the body portion for securing the same to a surface, a forwardly projecting rigid jaw carried by the front end of the body, a movable jaw independent of the body and the stationary jaw, and a leaf spring secured inside the body and to the inner portion of the movable jaw for supporting said jaw and normally urging the jaw



toward the stationary jaw, said spring terminating at the front of the movable jaw and having a downwardly curved guide lip for facilitating the insertion of an article between the movable jaw and the stationary jaw.

2,288,304
MACHINE FOR DIE CUTTING PAPER
Albert B. Schlattner, Cincinnati, Ohio, assignor to The Printing Machinery Company, Cincinnati, Ohio, a corporation of Ohio
Application May 22, 1941, Serial No. 394,685
13 Claims. (Cl. 164—24)

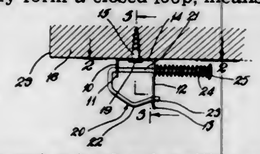


1. A machine for cutting labels or the like comprising a cutting block, a cutting die, said cutting block adapted to receive and support successive stacks of label blanks, said stacks of blanks adapted to be moved against the cutting edge of the die, a feeding shelf, a feeding slide for moving the stacks of blanks along the shelf onto the cutting block, an abutment disposed relative to the cutting block and against which the stacks are fed, a weight attached to the feeding slide and urging the slide in its stack feeding movement, and power means for returning the feeding slide to starting position.

2,288,305
HOOK MOUNTING
Arthur J. Traumüller, Sr., Brooklyn, N. Y.
Application April 1, 1941, Serial No. 386,226
5 Claims. (Cl. 248—307)

4. A device of the class described comprising a channel-shaped mounting plate having spaced depending walls, means for securing the plate to a suitable support, a hook member having a long shank portion slidably engaging the spaced walls of said plate, said hook member having a free

end portion registering with one of said walls to normally form a closed loop, means supporting



the hook member in closed position, and said last named means being manually operable to move the hook to open position.

2,288,306

PRODUCTION OF CONDENSATION PRODUCTS

Hans Wagner, Frankfort-on-the-Main, Germany, assignor to the firm of Chemical Marketing Company, Inc., New York, N. Y.

No Drawing. Application January 21, 1941, Serial No. 375,364. In Germany January 29, 1940

6 Claims. (Cl. 260—593)

1. A process for the production of unsaturated condensation products of formaldehyde and its acetals with oxo compounds, which comprises passing a mixture of a substance selected from the group consisting of formaldehyde and its acetals, and an oxo compound, in vapor phase over a catalyst containing as its essential ingredient calcium phosphate.

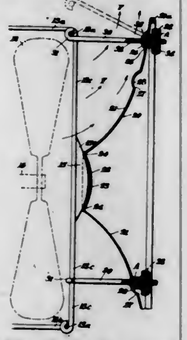
2,288,307

DEFLECTOR ATTACHMENT FOR VENTILATING FANS

William W. Welch, University City, Mo., and Benjamin Kahn, New York, N. Y.; said Kahn assignor to said Welch

Application September 26, 1940, Serial No. 358,444

7 Claims. (Cl. 230—274)



1. A detachable deflector device adapted for attachment to differently-sized guard frames of conventional electric fans in the path of direct stream flow generated thereby comprising a flared shell deflector having a closed end and a plurality of slotted equi-spaced indentations in a wall thereof, said indentations being partly-spherical in shape.

2,288,308

PUNCH AND DIE

Ivan A. Williams, Portland, Oreg.

Application April 7, 1941, Serial No. 387,182

6 Claims. (Cl. 78—1)

1. A composite tool comprising a punch and die for forming fastening elements through pieces of material to be joined together, said punch being provided with cutting edges at one



of its ends, said die comprising a plurality of yieldable members having cutting edges spaced apart a distance substantially equal to the distance between the cutting edges of the punch.

2,288,309

ALKALI-RESISTANT IRON BLUE PIGMENT

Edwin A. Wilson, Rutherford, N. J., and Irving Shack, Brooklyn, N. Y., assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio

No Drawing. Application July 31, 1940, Serial No. 348,990

6 Claims. (Cl. 106—304)

1. An iron blue pigment of improved alkali resistance, comprising ferric-ferro-cyanide particles having deposited thereon small amounts but at least 0.1% of nickel in the form of a basic water-insoluble compound.

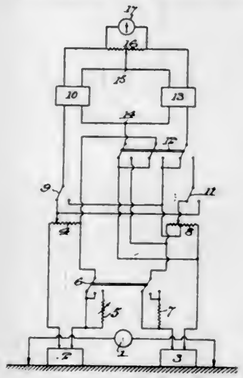
2,288,310

APPARATUS FOR GEOELECTRIC AND SEISMIC INVESTIGATIONS

Theodor Zuschlag, West Englewood, N. J., assignor, by mesne assignments, to Lundberg Exploration S. A., Panama City, Panama, a corporation of Panama

Application April 23, 1938, Serial No. 203,830

4 Claims. (Cl. 172—245)



1. Apparatus for determining the amplitude ratio and phase difference of sine wave electromotive forces of the same frequency comprising, a plurality of sources of electrical waves of the same frequency which may differ in amplitude and phase, a non-reactive resistance network constructed and arranged to measure amplitude and phase comprising a plurality of non-reactive electrical impedances connected in series, respectively, with said sources, a plurality of similar electrical amplifiers connected in circuit with said impedances, and an indicating device connected in bridge relationship with said amplifiers.

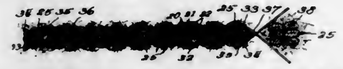
2,288,311

HEAT INSULATING MATERIAL

William F. Astley, Cicero, Ill., assignor to Union Asbestos & Rubber Company, Chicago, Ill., a corporation of Illinois

Application February 4, 1938, Serial No. 188,720

5 Claims. (Cl. 139—420)



1. An insulating blanket, comprising a plurality of warp threads spaced from each other, comprising asbestos fibers, and a plurality of closely adjacent and intermingling weft insulating members, said insulating members being arranged close to each other, and said warp threads being arranged alternately so that where one warp thread passes over a plurality of insulating weft members and under the next group of insulating weft members, the next adjacent warp threads pass under the first-mentioned insulating members and over the next mentioned group of insulating members, said insulating members comprising fluffed and open Amosite asbestos fibers having threads of asbestos intermingled therewith, at least one of said threads of each unit extending longitudinally of the insulating member and embedded therein, and another of said threads extending spirally of said insulating member for the purpose of holding said fibers together without confining the fibers or preventing the intermingling of adjacent insulating units.

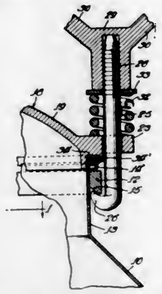
2,288,312

SPRAY TANK

William R. Brown, Chicago, Ill., assignor to W. R. Brown Corporation, Chicago, Ill., a corporation of Illinois

Application April 4, 1938, Serial No. 199,840

1 Claim. (Cl. 220—55)



In a pressure tank, a container formed of relatively light weight material, said container having a reinforced rim, a closure member for said container having a portion overhanging said rim, a plurality of spaced hooked clamping members extending through said overhanging portion and mounted on said closure member and having adjustable abutments spaced above said overhanging portion and having hooks below said overhanging portion, the reinforcement of said rim having an under surface whose inner portion is higher than its outer portion, to receive said hooks, and resilient means engaged between said abutments and said closure member and urging said hooks into engagement with said higher portion and functioning to enable said closure member to move away from said container to relieve the pressure when a predetermined pressure has been attained within said container.

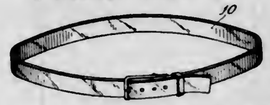
2,288,313

ARTICLE OF WEARING APPAREL, ACCESSORY, AND THE LIKE

Herbert Buchsbaum and Leonard Becker, Chicago, Ill., assignors to S. Buchsbaum & Company, Chicago, Ill., a corporation of Illinois

Application February 8, 1940, Serial No. 318,006

2 Claims. (Cl. 2—243)



1. In a body constricting type of garment supporter, a gloss surfaced strap consisting essentially of a vinyl resin, which is a co-polymer of vinyl chloride and vinyl acetate, and a plasticizer, the vinyl resin and plasticizer being of such character and present in such amount as to give a composition which is non-tacky and has substantial flexibility and elastic extensibility over a temperature range of 0° F. to 100° F., said strap being further characterized by a relatively slow return to zero elongation after substantial elastic extension, and a relatively low coefficient of friction compared to vulcanized soft rubber strap of equal tensile strength and surface smoothness tested under comparable conditions.

2,288,314

METHOD OF IMPROVING YEAST

Leo M. Christensen, Atchison, Kans., assignor to The Chemical Foundation, Incorporated, a corporation of Delaware

No Drawing. Application June 25, 1937, Serial No. 150,417

1 Claim. (Cl. 195—79)

A method of producing improved yeast strains, capable of directly fermenting the polysaccharides contained in Jerusalem artichokes, which comprises, preparing a medium containing such polysaccharides, adjusting the hydrogen ion concentration of the medium to pH 4.5 to 5; inoculating the medium with distillers' yeast and incubating at a temperature of substantially 30° C. for a period of approximately 5 to 7 days; then successively inoculating a similar medium with the yeast propagated in the preceding incubation, while successively diminishing the time of incubation.

2,288,315

INTERPOLYMERIZATION PRODUCT OF A DIALLYL ETHER AND AN UNSATURATED ALKYD RESIN

Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application December 1, 1939, Serial No. 307,147

15 Claims. (Cl. 260—42)

1. A polymerizable composition comprising a diallyl ether and an unsaturated alkyd resin.

2,288,316

APPARATUS FOR COATING PIPE

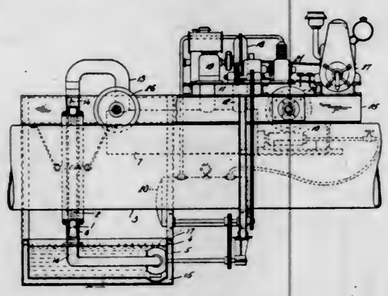
William Francis Focha, Westfield, N. J., assignor to Wailes, Dove-Hermiston Corporation, a corporation of New York

Application April 13, 1940, Serial No. 329,439

8 Claims. (Cl. 91—44)

1. Apparatus for coating pipe with hot liquid bitumen which comprises an annular duct, a plurality of orifices spaced around the inner

face of the duct, means for forcing hot liquid bitumen through the orifices and against the pipe in a plurality of radial jets, a jacket about

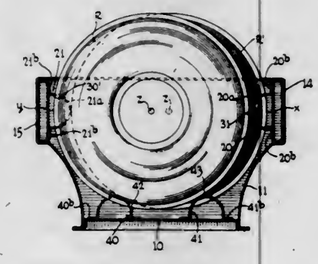


the duct, and means for passing a heating fluid through the jacket for keeping the bitumen in the duct hot.

2,288,317

RECORD HOLDER

Abraham Greenberg, Brooklyn, N. Y.
Application May 9, 1940, Serial No. 334,271
3 Claims. (Cl. 211—40)

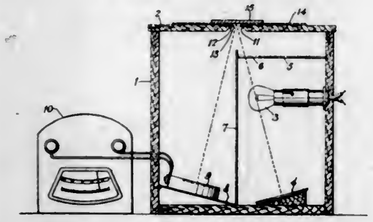


1. In a record holder of the character described wherein records are supported in staggered relation, the combination of a bottom wall and a pair of relatively spaced side walls, each of the side walls of said holder having rigidly attached thereto a hollow, elongated, transversely slotted unit of sheet material, the slots in the unit on one of said side walls being directly aligned with the space between the slots in the unit on the other of said side walls, the bottom wall of said holder having rigidly attached thereto a hollow, elongated, transversely slotted unit of sheet material, the slots of said last named unit being aligned with the slots of the unit on one of said side walls, said bottom wall having rigidly attached thereto a second hollow, elongated, transversely slotted unit of sheet material, the slots of said second unit being aligned with the slots in the unit on the other side wall, the first and second bottom wall units being spaced from each other and from said side wall units, said hollow units being so further disposed with respect to one another that the longitudinal axes of the side wall units lie in a horizontal plane which passes substantially through the center of records disposed in said holder, the width of the slots and the distance between the slots in said units being substantially equal to each other and to the thickness of the records whereby the maximum number of records may be stored in a given space.

2,288,318

ELECTROPLATING PROCESS

Raymond A. Hoffman, Euclid, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application December 29, 1937, Serial No. 182,219
12 Claims. (Cl. 204—55)



1. In a process for the electrodeposition of zinc, the step comprising depositing zinc from a cyanide-zinc bath in the presence of a bath-soluble addition agent prepared by reacting materials consisting of a phenol and an aldehyde to produce a phenol-aldehyde condensation product.

2,288,319

POUR INHIBITOR

Louis A. Mikeska, Elizabeth, and Eugene Lieber, Linden, N. J., assignors to Standard Catalytic Company, a corporation of Delaware
No Drawing. Application December 3, 1937, Serial No. 177,930
10 Claims. (Cl. 260—592)

1. The process which comprises condensing an aromatic hydrocarbon with a paraffin wax derivative selected from the group consisting of halogenated paraffin wax and olefins of the type derived therefrom, in the presence of a Friedel-Crafts catalyst at a temperature below about 300° F. to make a high molecular weight wax-aromatic hydrocarbon initial condensation product substantially non-volatile at temperatures up to at least 550° F. and recondensing said wax-aromatic product with a monobasic acyl halide using about 0.25–1.0 gram mol of the latter to each 250 grams of wax-aromatic product, in the presence of a Friedel-Crafts catalyst, hydrolyzing and removing the catalyst and subjecting the condensation product to distillation up to at least 550° F. to obtain as distillation residue a high molecular weight final acylated wax-aromatic hydrocarbon condensation product having pour point reducing properties.

2,288,320

PROCESS OF PREPARING CHROMIUM OXIDE GEL CATALYSTS

Glen H. Morey, Terre Haute, Ind., assignor to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application November 27, 1936, Serial No. 113,091
23 Claims. (Cl. 252—254)

4. In a process of preparing chromium oxide gel, the step which comprises digesting a mixture comprising bluish, chalky hydrous chromic oxide and a concentrated acidic aqueous medium whose anions consist substantially entirely of anions of a monobasic acid whose normal chromic salt is soluble in water and hydrolyzes to give free acid, said mixture containing said anions in such an amount, not to exceed one-half of the chemical equivalent of the total chromium present figured as trivalent chromium

and said digesting being continued for such a period that a thick viscous sol is obtained that is capable of yielding a dark green and gelatinous precipitate on addition of an alkali in slight excess, and subsequently adding a solution of an alkali in slight excess.

15. A process for the preparation of a catalyst of gel characteristics and containing chromium oxide as a constituent of the gel, which comprises digesting at about 100° C. a mixture comprising bluish chalky hydrous chromic oxide and about one-fourth as much of a concentrated aqueous solution of a monobasic acid whose normal chromic salt is soluble in water and hydrolyzes to give free acid as would be required to convert all of the chromic oxide to the corresponding normal chromic salt until the mixture becomes a very thick and viscous sol, adding from time to time additional smaller amounts of the monobasic acid while continuing the digesting until a small test portion of the thick viscous sol, when diluted with hot water and treated with a solution of an alkali, yields a dark green and gelatinous precipitate, the total amount of monobasic acid not exceeding one-half that required to convert all of the chromic oxide to normal chromic salt, then diluting the main portion of the thick viscous sol with hot water, mixing the diluted sol with an alkali in slight excess, thereby precipitating dark green and gelatinous hydrous chromic oxide, and washing and drying the resultant precipitate.

19. In the preparation of a chromium oxide gel catalyst the steps comprising adding concentrated ammonium hydroxide to a concentrated solution of chromic nitrate with stirring, continuing the said mixing with agitation of the mixture to effect addition to the solution of approximately 70% of the ammonia required to precipitate the metal as the hydroxide, diluting said solution by the addition of water, adding to said diluted solution ammonium hydroxide to precipitate chromium hydroxide as a gelatinous mass, separating said precipitate from said solution, and drying the precipitate to form a black vitreous chromium oxide catalyst.

2,288,321

MOLDABLE COMPOSITION AND MOLDED ARTICLE AND METHOD OF MAKING THE SAME

Birger W. Nordlander and Ira A. Hurst, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
No Drawing. Application September 27, 1939, Serial No. 296,814
8 Claims. (Cl. 260—40)

1. A composition of matter capable of being hot-molded and ejected hot from the mold and containing a filler and the reaction product of an acidic alkyd resin having an acid number of at least 125 and an active oxide of a polyvalent metal in an amount substantially in excess of 25 per cent by weight based on the weight of the alkyd resin.

2,288,322

MOLDABLE COPAL COMPOSITION AND METHOD OF MAKING THE SAME

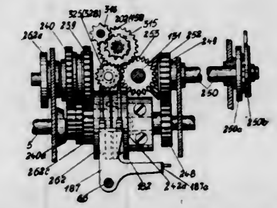
Birger W. Nordlander, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application September 27, 1939, Serial No. 296,815
5 Claims. (Cl. 106—242)

1. A composition of matter consisting of the heat reaction product of a fused acidic copal resin, at least 20% by weight of a polyvalent metal oxide based on the weight of the resin, and asbestos at an elevated temperature.

2,288,323

CALCULATING MACHINE

August Friedrich Pott, Zella-Mehlis, Germany, assignor to Mercedes Buromaschinen-Werke Aktiengesellschaft, Zella-Mehlis, Thuringia, Germany
Original application September 23, 1931, Serial No. 564,643. Divided and this application June 10, 1937, Serial No. 147,589. In Germany October 2, 1930
4 Claims. (Cl. 235—62)



1. In a calculating machine having an accumulator for registering a product, differential mechanism in which a multiplicand may be set, actuating means for said accumulator controlled by said mechanism, a shiftable carriage carrying said accumulator, a multiplier setting up mechanism including cams for setting up a multiplier, driving means for said carriage to advance the latter to the right and retract it to the left, respectively, including a device for determining the direction in which the drive shifts the carriage, a second driving means for said actuating means, and a third driving means for said multiplier setting up cams to drive said cams back to zero, in combination, a multiplication control lever settable in opposite directions, a motor drive operating all of said driving means and rendered operative upon movement of said multiplication control lever in either direction to cause the actuating means to automatically register the product in the accumulator under the control of the multiplier setting up mechanism, and means controlled by said lever upon movement thereof in opposite directions for setting said device to determine shifting of the carriage in one direction or alternatively in the other direction, respectively, during the multiplying operation.

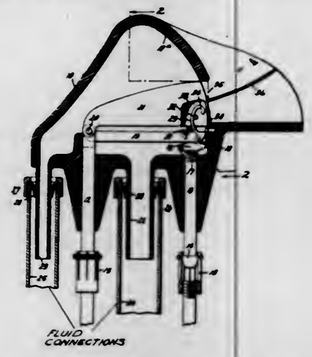
2,288,324

ELECTRIC CIRCUIT BREAKER

David C. Prince, Swarthmore, Pa., assignor to General Electric Company, a corporation of New York
Application April 26, 1940, Serial No. 331,796
8 Claims. (Cl. 200—148)

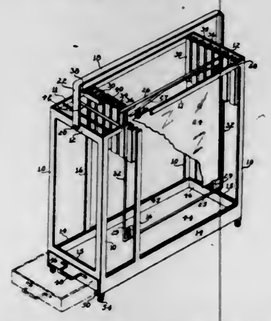
1. In an electric circuit breaker of the air-blast type including a casing, a pair of relatively movable contacts mounted within said casing, electrical connections associated with said contacts and extending from said casing so as to be united with an external electrical circuit, air connections extending from said casing and arranged to be coupled with an external air circuit, and means for uniting said air and electrical connections extending from said casing with said external air and electric circuits by a single operation, said air connections being so constructed and arranged so as to be coupled with

said external air circuit prior to the union of said electrical connections with said external elec-



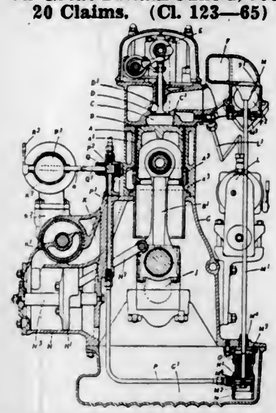
trical circuit so as to provide a test position for said circuit breaker.

2,288,325
PHOTOGRAPHIC FILM CARRIER
Jeanne L. Rodier, Worcester, Mass.
Application October 22, 1940, Serial No. 362,299
2 Claims. (Cl. 95—100)



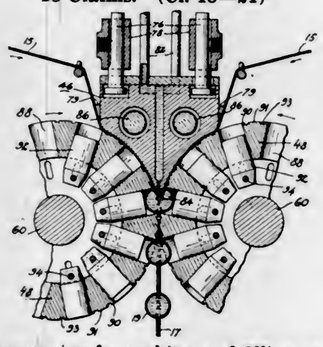
1. A photographic film carrier for supporting film frames, each of which has spaced parallel side members and a top crossbar connected thereto which projects horizontally beyond said members and means for supporting a film between said parts, comprising vertical and horizontal side and end walls forming an open framework, spaced vertical ribs projecting inwardly from the end walls near the top of the framework which provide extensive open topped channels into which said frame side members may slide, said ribs separating and preventing lateral swinging of the frames, opposed horizontal supports at the top of the framework which are arranged to be engaged by the projecting ends of said crossbars and support the film frames and permit ready removal thereof, a removable tray having imperforate sides and bottom arranged to catch and hold any liquid dripping from the films on said frames, slide runways near the bottom of the framework which slidably support the tray for a horizontal movement into and out of position beneath the suspended film frames, and a handle for carrying the carrier which is movably mounted on the framework and arranged to be moved from a carrying position above the film frames to one where it will not interfere with the vertical removal of the film frames from said channels.

2,288,326
INTERNAL COMBUSTION ENGINE
Harry Ralph Ricardo, London, England
Application May 21, 1940, Serial No. 336,450
In Great Britain June 1, 1939
20 Claims. (Cl. 123—65)



8. In an internal combustion engine operating on the two-stroke cycle with compression ignition, the combination of at least one valve-controlled exhaust port through which the exhaust gases pass from the cylinder into an exhaust manifold and thence through an opening to the atmosphere, a member mounted adjacent to the said exhaust gas outlet opening and movable into positions wherein it will obstruct in some degree the outflow of exhaust gases through the said opening, a cylinder with a piston movable therein and connected to the said gas-obstructing member, a spring acting on the said member to move the piston and the member in a direction which will cause the member to obstruct the exhaust gas outflow, and a pipe connection between the engine lubricating system and the said cylinder through which piping oil under pressure can act in the cylinder on the piston and move it and the said gas-obstructing member in a direction opposite to that in which it is moved by the said spring thereby reducing the obstruction to the gas outflow as set forth.

2,288,327
APPARATUS FOR FORMING AND FILLING CAPSULES
Robert P. Scherer, Detroit, Mich.
Application October 8, 1935, Serial No. 44,017
Renewed September 1, 1939
15 Claims. (Cl. 18—21)



1. In apparatus for making and filling capsules,

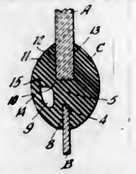
a pair of die rolls provided with capsule forming cavities, means for feeding a pair of capsule forming bands over said rolls into juxtaposition between the rolls including a feeder head arranged between said bands and supported to float universally thereupon holding each band to its roll adjacent to the point of juxtaposition of the bands between the rolls.

2,288,328
PNEUMATIC TIRE
Lawrence E. Sexton, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application May 23, 1938, Serial No. 209,479
4 Claims. (Cl. 152—209)



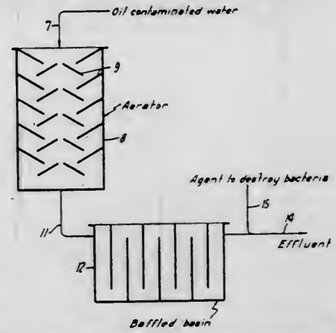
1. In a pneumatic tire, a tread portion comprising a plurality of main ribs extending obliquely and substantially perpendicular to each other from adjacent the sides of the tread, auxiliary ribs of less height than the main ribs extending parallel to said main ribs to form channels open only adjacent the sides of the tread, and spaced enlargements of substantially uniform height formed on and projecting outwardly from said ribs and into said channels and being of sufficient height as compared with their diameter and projecting radially of the tire a substantial distance beyond the ribs, whereby said enlargements are readily flexed when contacting the ground.

2,288,329
MOUNTING OR JOINT STRIP
Lawrence H. Smith, Chicago, Ill., assignor to General American Aerocoach Company, Chicago, Ill., a corporation of Delaware
Application November 5, 1940, Serial No. 364,422
3 Claims. (Cl. 189—78)



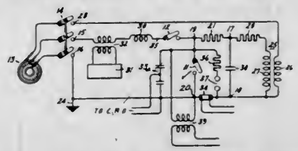
1. In a mounting strip of the class described an elongated flexible strip of rubber adapted to be interposed between the adjacent edges of the parts to be joined and having integral wing portions forming a channel for one of said parts and extending along the marginal faces of the parts to compressively engage said faces, said body having a tubular longitudinal hollow, one of said wing portions being capable of deflection against the elasticity of said rubber and into said hollow to permit the placing in or removal of one of said parts from said channel, and an integral portion of said body normally closing said hollow and bearing against said wing portion to prevent deflection of the wing, said integral portion being flexible to open said hollow.

2,288,330
PURIFICATION OF PETROLEUM CONTAMINATED WATERS
Ralph A. Stevenson, Los Angeles, Calif.
Application September 30, 1940, Serial No. 358,956
5 Claims. (Cl. 210—2)



1. A process for purifying and rendering stable a water contaminated with crude petroleum oil or waste petroleum oil from refineries of crude petroleum, the oil containing sulfur on which bacteria can feed to form in the water an objectionable product, said process comprising aerating said water, separating said oil from the aerated water to reduce the oil content thereof, and chlorinating remaining water to render said bacteria ineffective to produce hydrogen sulfide and to render a free oxygen content maintainable in said water even in the presence of remaining petroleum oil.

2,288,331
CIRCUIT BREAKER TESTING APPARATUS
Wilfred F. Skeats, Lansdowne, Pa., assignor to General Electric Company, a corporation of New York
Application August 13, 1940, Serial No. 352,392
14 Claims. (Cl. 175—183)



1. An arrangement for testing circuit breaker units comprising in combination with a unit to be tested, an auxiliary circuit breaker unit, a high current source, a high voltage source for applying a simulated recovery voltage to the breaker unit under test, a resistance element, means connecting said circuit breaker units in series circuit relation to said high current source, means connecting said resistance element between said high voltage source and the high voltage terminal of the breaker unit under test, and means associated with the circuit of said high voltage source and said breaker under test whereby the desired overshoot may be obtained in said recovery voltage.

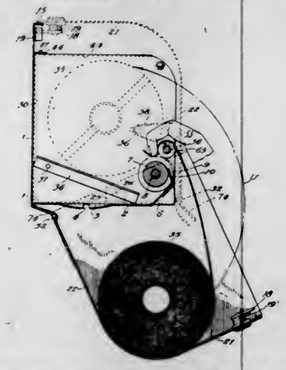
2,288,332

DISPENSING CABINET AND METHOD OF SERVICING

Frank G. Steiner, Miami Beach, Fla., and Rudolph G. Birr, Lombard, Ill., assignors to Steiner Sales Company, Salt Lake City, Utah, a corporation of Utah

Original application May 24, 1939, Serial No. 275,450. Divided and this application March 8, 1940, Serial No. 322,900

4 Claims. (Cl. 312—39)



4. A dispensing cabinet of the hang-on-the-wall type having inner and outer sections of relatively thin sheet metal, the inner section providing rear and bottom walls and the outer section providing top, side and front walls, a pair of spaced plates within the inner section each having flanges rigidly secured by their faces respectively to the faces of the rear and bottom walls to strongly reinforce the thin metal of said back and bottom walls against deformation, a dispensing mechanism mounted on and between the plates, means hinging the outer to the inner section and permitting the former to swing from cabinet-closing position to a level below the inner section to form a shelf, said means including brackets, one rigidly secured to each of the flanges of said plates which are secured to the bottom wall of the inner section, said outer section having a portion which engages the bottom wall to limit said section at shelf-forming position, said brackets thereby acting to transmit fulcruming strains to said plates rather than to said bottom wall when said outer section is in shelf-forming position to receive a supply roll of sheet material during servicing.

2,288,333

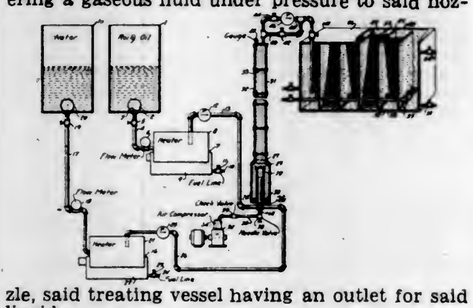
APPARATUS FOR PURIFYING PETROLEUM OIL

Dan W. Vinson, Oklahoma City, Okla., assignor to Mechanical Oil Recovery, Incorporated, Oklahoma City, Okla., a corporation of Oklahoma

Application May 24, 1937, Serial No. 144,445

8 Claims. (Cl. 210—47)

1. Apparatus of the character described including a mixing chamber having an outlet for liquids mixed therein, a treating vessel connected with the mixing chamber, a hood supported over the outlet of the mixing chamber and having outlet to the treating vessel offset from said outlet of the mixing chamber, means for introducing oil to be treated and a separate liquid into said chamber through separate lines for flow in a stream to the treating vessel, a nozzle terminating in the mixing chamber at the down-stream side of the connection of said lines with the mixing chamber, and means for intermittently delivering a gaseous fluid under pressure to said nozzle, said treating vessel having an outlet for said liquids.



2,288,334

LOCAL ANESTHETIC

Elmer B. Vliet, Lake Bluff, and Marjorie B. Moore, Waukegan, Ill., assignors to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois

No Drawing. Application May 3, 1940, Serial No. 333,110

3 Claims. (Cl. 260—471)

3. A local anesthetic compound selected from the group consisting of the gamma-di-n-butylaminopropyl ester of 3-amino-4-n-butyloxybenzoic acid and its acid addition salts.

2,288,335

SYNTHETIC ACROLEIN

Hans Walter, Frankfort-on-the-Main, and Hermann Schulz, Neu-Isenburg, Germany, assignors to Deutsche Gold-und Silber-Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany, a German company

No Drawing. Application August 30, 1939, Serial No. 292,609. In Germany September 14, 1938

19 Claims. (Cl. 260—604)

1. A process for producing acrolein which comprises reacting acetylene with formaldehyde in the vapor phase in the presence of a condensation catalyst at temperatures above 150° C.

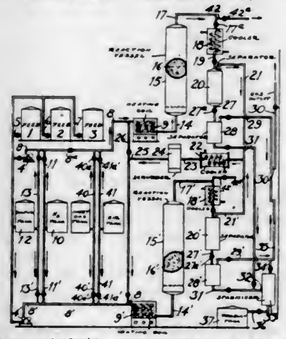
2,288,336

CATALYTIC REFORMING OF NAPHTHAS

Albert B. Welty, Jr., Elizabeth, and Stephen F. Perry, Roselle, N. J., assignors, by mesne assignments, to Standard Catalytic Company, a corporation of Delaware

Application May 4, 1939, Serial No. 271,672

4 Claims. (Cl. 196—50)



2. In the catalytic reforming of naphthas in the presence of hydrogen under conditions such that there will be no net consumption of free hydrogen in the process and in the presence of a catalyst comprising aluminum oxide and a compound of a metal of the VI group of the periodic system, the method of maintaining a substantially constant net production of free hydrogen in the process for a period of at least 12 hours which comprises progressively increasing the percentage of lower boiling hydrocarbons in the naphtha feed as the reforming period proceeds.

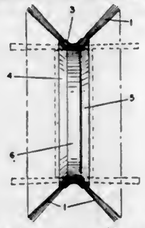
2,288,337

ROTARY BRUSH SECTION

William S. Whittle, Cleveland, Ohio, assignor to The Osborn Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application June 26, 1939, Serial No. 281,068

14 Claims. (Cl. 300—21)



1. In an annular brush section the combination of a sheet metal brush-back of U-shaped cross-section, brush material, and a retaining ring comprising a metal band of substantially U-shaped cross-section, the inner periphery of which bears indentations.

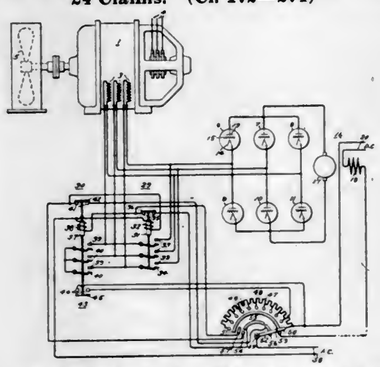
2,288,338

ELECTRIC MOTOR CONTROL SYSTEM

Clodius H. Willis, Princeton, N. J., assignor to General Electric Company, a corporation of New York

Application October 27, 1937, Serial No. 171,354

24 Claims. (Cl. 172—274)



1. In combination, an induction motor having polyphase inducing and induced windings, said induced windings being arranged to be connected in delta or in wye, a direct current motor arranged to absorb variable amounts of electric power and having armature and excitation circuits, electric valve means connected between said induced windings and said armature circuit, and a circuit for controlling the speed of said induction motor comprising means for simultaneously varying the energization of said excitation circuit and selectively connecting said induced windings in delta or in wye and means for abruptly changing the energization of said excitation circuit at the time of transition from the delta connection to the wye connection.

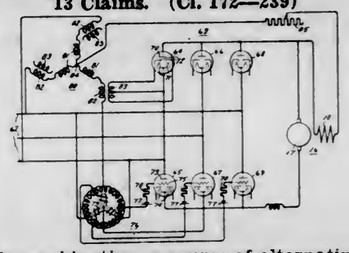
2,288,339

ELECTRIC MOTOR CONTROL SYSTEM

Clodius H. Willis, Princeton, N. J., assignor to General Electric Company, a corporation of New York

Original application October 27, 1937, Serial No. 171,354. Divided and this application December 23, 1938, Serial No. 247,494

13 Claims. (Cl. 172—239)



1. In combination, a source of alternating current, a dynamo-electric machine of the direct current type including armature and excitation circuits, an electrical network connected to said alternating current circuit and having an electrical neutral connection, electric translating apparatus connected between said alternating current circuit and said armature circuit and comprising a pair of serially connected electric valves, only one of said electric valves being provided with a control member for controlling the conductivity thereof, said excitation circuit being connected to be energized in accordance with the voltage appearing between the other of said electric valves and said neutral connection, and means for energizing said control member to control an electrical characteristic of said machine.

2,288,340

METHOD OF MAKING COMPOSITE TUBULAR STRUCTURES

William S. S. Yates, Chicago, Ill.

Original application August 29, 1936, Serial No. 98,474. Divided and this application July 21, 1939, Serial No. 285,704

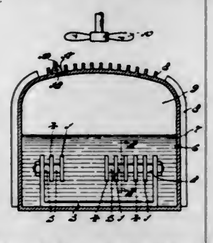
1 Claim. (Cl. 113—33)



A method of making composite tubular structures which comprises forming sheet metal into a tubular element and interfolding the longitudinal edges tightly to the extent of forming a partially complete seam lock with the oppositely presented portions of said element adjacent to said lock disposed at different radial distances from the center of each element, forming from other sheet metal a substantially tubular element having the free longitudinal edges spaced apart and dimensioned to enter the first tubular element freely without being compressed, inserting the substantially tubular element into the first tubular element, and shaping and expanding the internal tubular element into surface engagement with the external tube and simultaneously

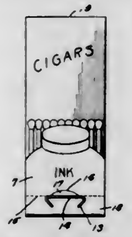
shaping the first mentioned tubular element into cylindricity, completing the seam lock by bringing the portion of the first element of lesser radial distance into the same radial distance from the center of the element as the oppositely presented portion and confining said lock between the free edges of said internal tubular element to securely retain the first mentioned edges in interfolded relation.

2,288,341
BLOCKING LAYER ELECTRODE SYSTEM
Nicolaas Willem Hendrik Addink, Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application June 12, 1940, Serial No. 340,224
In the Netherlands June 2, 1939
11 Claims. (Cl. 175—366)



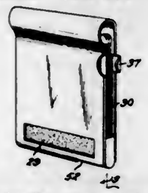
1. A device of the class described comprising a container, a cooling liquid within said container, and a plurality of blocking layer electrode systems submerged in said liquid and having a maximum admissible operating temperature, the boiling point of said liquid being substantially the same as said operating temperature at the pressure occurring within the container during operation of the device.

2,288,342
MATCH BOOK
Benjamin L. Brooks, Lynchburg, Va.
Application December 7, 1938, Serial No. 244,337
4 Claims. (Cl. 206—29)



1. Match cook comprising an integral cover strip folded to form a trough, a core of match combs seated in said trough, said cover strip having a front fold of such length as substantially to cover said match combs affording a space for advertising display, and a back fold of such length as to be flexed about the heads of said match combs, the anterior portion forming a front flap, said front fold being formed with a line of weakness the intermediate portion of which is a slit forming a tongue integral with the side of said trough when said front fold is torn off at said line of weakness, adapting said front flap to be tucked behind said tongue.

2,288,343
MATCH BOOK AND HOLDER
Benjamin L. Brooks, Lynchburg, Va.
Application July 31, 1939, Serial No. 287,640
3 Claims. (Cl. 206—33)

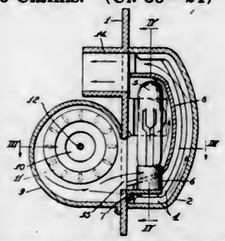


1. Match receptacle comprising a flat casing having spaced front and back walls and connecting end walls, at least one side of said casing being open, a match book holder pivotally mounted within said casing at a point near one corner thereof whereby it may be tilted to extend through the open side of said casing, said holder comprising a flat back portion with a trough at its base to snugly receive the bottom of a match book of that type having a transverse striking surface at its base, and having means for holding the match book fixed against said back portion and constructed to expose the striking surface of said match book, said casing having an elongated opening in its front wall adapted to register with the surface of the match book when said holder is in enclosed position within said casing.

2,288,344
PROCESS FOR PRODUCTION OF KETONES
Benjamin T. Brooks, Old Greenwich, Conn., assignor to Standard Alcohol Company
No Drawing. Application July 27, 1940, Serial No. 348,024
10 Claims. (Cl. 260—597)

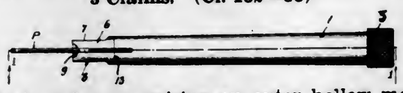
1. The process of converting olefins of more than four carbon atoms to the molecule to ketones which comprises treating the olefins with cold dilute aqueous hypochlorous acid, converting the resulting chlorohydrins to epoxides by means of concentrated alkaline reacting material, treating the epoxides with a dilute aqueous mineral acid to hydrolyze the epoxides to glycols, heating the glycol with a mineral acid of from 5 to 40% concentration selected from the group consisting of phosphoric and sulfuric acid and distilling off the ketone.

2,288,345
PROJECTOR OR THE LIKE
Herman A. De Vry and Otto R. Nemeth, Chicago, Ill., assignors to De Vry Corporation, Chicago, Ill., a corporation of Illinois
Application May 31, 1940, Serial No. 338,206
6 Claims. (Cl. 88—24)



1. In a projector which includes a lamp, a lamp housing, a blower and a casing for the blower having an outlet discharging through the lamp housing, the combination of a baffle wall disposed between the lamp and the inner surface of the housing extending in the general direction of air flow therethrough and dividing the air discharged by the blower into a stream flowing in contact with the lamp and a stream flowing between the baffle and the lamp housing, the inner surface of said housing having inwardly projecting ribs extending in the general direction of air flow through the housing for absorbing heat from the air.

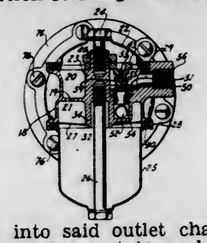
2,288,346
HAIR-CURLING DEVICE
Max Dunner, Brooklyn, N. Y., assignor to William Finkelstein, New York, N. Y., doing business as Eastern Trading Company
Application October 17, 1939, Serial No. 299,821
3 Claims. (Cl. 132—33)



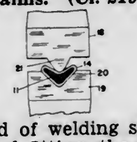
1. A curler comprising an outer hollow member, an inner member located in said outer member, said inner member and said outer member having straight and coincident longitudinal axes, said inner member being rotatable relative to the outer member, the front end-portion of the inner member projecting longitudinally in front of the front end-wall of the outer member, a sleeve mounted on the inner member, said sleeve being rotatable relative to the outer member, said sleeve having a rear portion thereof located between the front end-portion of the outer member and the respective part of the inner member, said sleeve also having a front portion which is located in front of the front end-wall of the outer member, the outer and inner walls of the rear portion of the sleeve being cylindrical respectively and substantially abutting the adjacent portions of the inner wall of the outer member and the outer wall of the inner member, the front portion of the sleeve having an outwardly tapered bore of substantially elliptical cross-section, the front end-portion of said inner member being located in said outwardly tapered bore and having a substantially flat wall and a wall of partial elliptical contour and being outwardly tapered, said wall of partial elliptical contour abutting a part of the wall of said outwardly tapered bore, said flat wall being spaced laterally from the wall of said outwardly tapered bore, said abutment of said wall of partial elliptical contour with the wall of said outwardly tapered bore compelling said inner member and said sleeve to turn in unison relative to the outer member, said inner member having supplemental bearing means which are located rearwardly of said sleeve, said inner member being hollow at and behind the end-portion thereof, to receive a shank of a Bobby-pin, said inner member being insertable rearwardly through said sleeve until said wall of partial elliptical contour abuts a part of the wall of said outwardly tapered bore.

2,288,347
FUEL FEED SYSTEM
Floyd F. Flint, St. Louis, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Original application October 24, 1939, Serial No. 300,952. Divided and this application July 27, 1940, Serial No. 347,825
2 Claims. (Cl. 103—228)

1. In a fuel pump, a body member having horizontal and side walls, a detachable cover secured to the upper part of said body and forming a pressure accumulating outlet chamber with the same, an outlet connection for said chamber, a settling bowl on the lower portion of said body and forming an inlet chamber therewith, an inlet connection for said inlet chamber, a reciprocable pumping element secured to the side of said body and forming a pumping chamber with said side wall thereof, a passage connecting said inlet and pumping chambers and having a portion extending into said outlet chamber forming a first valve chamber, a second passage extending from said pumping chamber and having a portion forming a second valve chamber opening into said outlet chamber, an upwardly facing valve seat in each of said valve chambers, a check valve on each of said valve seats, a plate element secured in said outlet chamber across said valve seats and sealing said first valve chamber from said outlet chamber but only partially covering the connection between said second valve chamber and said outlet chamber, and valve springs compressed between said plate element and said valves, said plate element being readily removable through said outlet chamber upon removal of said cover to facilitate access to and removal of said valve and spring without necessarily disturbing said seat.



2,288,348
WELDING EQUIPMENT
Russell A. Funk, Pleasant Ridge, Mich.
Application June 10, 1940, Serial No. 339,822
3 Claims. (Cl. 219—4)

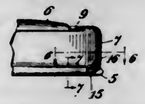


3. In a method of welding strands of wire to a tubular terminal fitting, the steps which comprise inserting the strands of wire into the tubular fitting, deforming the tubular fitting sufficiently to press the wires therein into a homogeneous mass by compressing the tubular fitting with the wire strands therein between a pair of welding electrodes, confining the deformation of the fitting during the compressing operation to a predetermined contour, and passing sufficient electrical current from one electrode to the other through the fitting and the wire strands in said fitting to weld said strands to the fitting.

2,288,349
METHOD OF MAKING CLOSURE CAPS
John C. Gibbs, Brooklyn, N. Y., assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y., a corporation of New York
Application December 1, 1938, Serial No. 243,336
3 Claims. (Cl. 113—121)

2. The method of making lug closure caps which method comprises forming a sheet metal

cup-shaped blank with a cylindrical band at the lower edge thereof having a diameter greater than the diameter of the blank above the band, turning the lower edge of said band inwardly, upwardly and outwardly to form an inturned bead on the bottom of the blank, the internal diameter of which is substantially equal to the



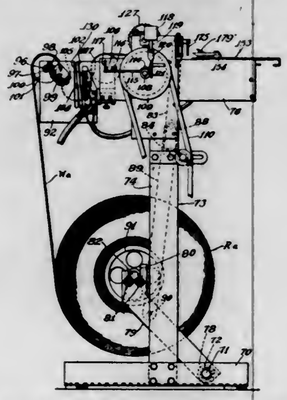
internal diameter of the normal portion of the blank, and forcing said inturned bead inwardly and upwardly at intervals about the circumference thereof to form screw lugs with relatively smooth convex surfaces for engaging screw projections on a container without indenting the metal of the blank above the enlarged zone of the blank in the forming operation.

2,288,350

SUPPORTING DEVICE

Walter T. Gollwitzer, Euclid, Ohio, assignor to Addressograph-Multigraph Corporation, Wilmington, Del., a corporation of Delaware

Application November 8, 1938, Serial No. 239,562
11 Claims. (Cl. 271—2.3)



1. In a device of the class described, means supporting a roll of paper or the like for unwinding movement whereby a web withdrawn therefrom may be supplied to a machine or the like wherein operations are performed on the web, means for imparting unwinding movement to the roll, a pair of rollers mounted in spaced apart relation and having a web passed thereover, another roller mounted intermediate said spaced apart rollers and having the web passed thereunder whereby the intermediate roller may form a loop in the web intermediate said spaced apart rollers, the last-named roller having an extension thereon, supporting means in which said rollers are mounted, and control means including a pivotally mounted arm having a cam surface thereon and normally spaced resilient contacts, said arm and said contacts being mounted on said supporting means, said contacts being positioned relative to said arm and the cam surface thereon to be urged into engagement with each other upon cooperation of said extension with said cam surface when the loop in the web is diminished in a predetermined amount to thereby set in operation the means for imparting unwinding movement to the roll whereby the magnitude of the loop formed in the web may be increased, said extension cooperating with said cam surface to enable separation of said contacts when the loop in the web attains a predetermined size.

2,288,351

WAX EMULSION

Richard Griffith, Red Bank, N. J., assignor to National Oil Products Company, Harrison, N. J., a corporation of New Jersey

No Drawing. Application December 16, 1938, Serial No. 246,121
1 Claim. (Cl. 252—311.5)

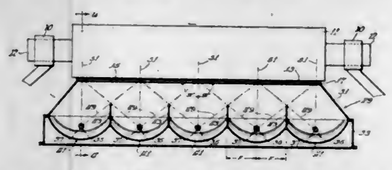
A process for producing an aqueous wax emulsion, which comprises mixing, melting and stirring a hard vegetable wax with a low melting point paraffin wax in the weight ratio of approximately 3 parts of vegetable wax to one part of paraffin wax to form a homogeneous molten mass; mixing into the molten mass a substantially anhydrous preprepared organic amine soap of a higher unsaturated fatty acid containing at least 10 carbon atoms and two double bonds per molecule to form a homogeneous mass; mixing small increments of water at a temperature of about 200° F. into the mass while maintaining the same at a temperature of at least 210° F.; and stirring the mass after the addition of each increment to effect homogeneity, the total amount of water added being sufficient to produce an emulsion of the desired consistency.

2,288,352

TRANSFER MACHINE

Charles L. Henderson, Appleton, Wis., assignor to Paper Patents Company, Neenah, Wis., a corporation of Wisconsin

Application December 24, 1938, Serial No. 247,584
2 Claims. (Cl. 95—73)



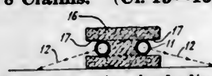
1. In a transfer machine of the class described, in combination, a generally flat transparency carrier plate supported for rectilinear movement in a plane substantially coincident with the surface thereof, a transparency having opaque areas of variable size depending upon tonal range supported on said transparency carrier plate, means for rotatably supporting a sensitized coated printing roll in contact with said transparency, said printing roll being rotated on rectilinear movement of said transparency carrier plate, means, which includes a plurality of light source-reflector combinations arranged size by side, for directing a narrow concentrated beam of light onto and through a narrow elongated portion of said transparency carrier plate, and means for so confining the light produced by each of said light source-reflector combinations that each unit of length along the illuminated portion of said carrier plate is illuminated by two, and two only, of said light source-reflector combinations, said light confining means preventing substantial reduction in size of said opaque areas in the transparency on transfer thereof.

2,288,353

WASHING APPARATUS

Stephen T. Hiatt, Fanwood, N. J.

Application April 23, 1940, Serial No. 331,102
8 Claims. (Cl. 15—130)



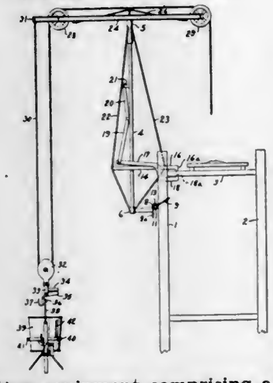
1. A washing apparatus including an elongated member of resilient porous material provided with a groove along opposite sides, a hollow conductor received entirely within said groove and being provided with apertures positioned to direct fluid streams to the exterior of the said member on to the surface being washed without contacting said member.

2,288,354

HOISTING EQUIPMENT

William J. Hill, Houston, Tex.

Application June 27, 1939, Serial No. 281,335
9 Claims. (Cl. 212—41)



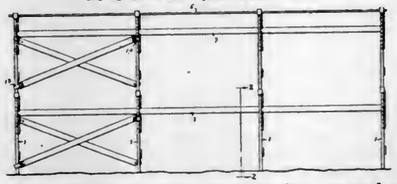
1. Hoisting equipment comprising a mast, inter-pivoted gripping members carried by said mast intermediate its end portions to releasably engage a horizontally disposed supporting platform having vertically positioned legs therebeneath, and hook members carried by arms extending transversely from the lower extremity of said mast to engage a bar releasably and vertically adjustably carried by said vertical legs below said gripping members.

2,288,355

BUILDER'S PLATFORM

William J. Hill and William C. Furry, Houston, Tex.

Application February 16, 1940, Serial No. 319,328
10 Claims. (Cl. 304—2)



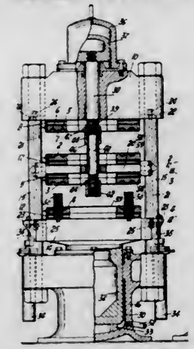
1. A builder's platform comprising spaced unitary trusses having side legs provided with projecting pins, side rails having end retainer plates provided with downwardly diverging slots to receive the pins whereby the trusses are connected together with a clamping action, cross-bars connecting some of the side legs of the trusses on each side and means for securing the cross-bars to corresponding legs.

2,288,356

PRESS FOR VULCANIZING PLAY BALLS AND SIMILAR ARTICLES

Walter E. Humphrey, Jeannette, Pa.

Application April 15, 1939, Serial No. 268,000
6 Claims. (Cl. 18—17)



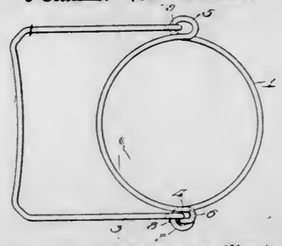
4. A press for vulcanizing hollow pressure filled rubber articles comprising a stationary press head, a movable press head, a plate intermediate the press heads, means to suspend the intermediate plate between the press heads in fully open position, but to permit it to move toward the stationary press head, pairs of molds with opposing cavities on the press heads and the intermediate plate, spring means between the movable press head and the intermediate plate, a constant pressure ram having associated therewith a stop for arresting the movement of the intermediate plate, a ram for the movable press head, means to supply fluid under two different pressures selectively to the second named ram, the pressure of the lower pressure fluid being insufficient to overcome the pressure on the first-named ram whereby the movement of the second-named ram is arrested and the pressure of the higher pressure fluid being sufficient to overcome the pressure acting on the first-named ram and bring the mold faces in contact.

2,288,357

WIRE BOTTLE CARRIER

Tazewell H. Jenkins, Chicago, Ill.

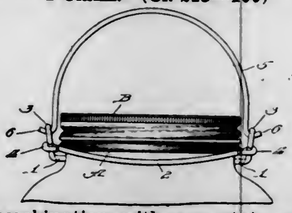
Application April 17, 1939, Serial No. 268,191
6 Claims. (Cl. 215—100)



1. A device comprising a resilient wire ring divided at one point only, one end of the ring being formed into an eye, a bail permanently connected to said eye and to a diametrically opposite point on the ring, and a hook on the other end of the wire adapted to lie flat against said

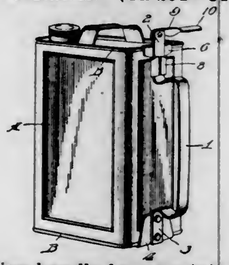
eye and having a part adapted to enter the eye to hold the ring contracted when that end of the wire is crossed over the top of the first end.

2,288,358
CARRIER FOR NECKED CONTAINERS
Tazewell H. Jenkins, Chicago, Ill.
Application April 20, 1940, Serial No. 330,651
1 Claim. (Cl. 215—100)



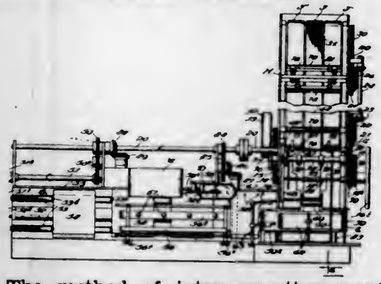
The combination with a container having a neck underlying a portion of larger diameter of a carrier comprising two bowed resilient wires embracing said neck from opposite sides, one of said wires having at its ends elongated loops lying in the plane thereof, the other wire having its end sections turned upwardly and formed at their upper ends into eyes lying in planes at right angles to a line extending between the same, said upturned sections extending through said loops and bringing the eyes above the latter and below the top of the container, and a bail having at its ends open hooks entered in said eyes from the inner sides of the latter; the ring-like member produced by the bowed wires being larger than the circumference of said neck and being flattened somewhat to cause said eyes to stand at distances from such portion of the container above the neck that is of larger diameter than the latter that are normally less than the distances that the hooks project through said eyes, and either hook being adapted to be left free to be withdrawn from the corresponding eye upon prying that part of the ring-like member containing the latter eye far enough away from the container.

2,288,359
DETACHABLE HANDLE FOR CANS
Tazewell H. Jenkins, Chicago, Ill.
Application September 9, 1940, Serial No. 355,901
5 Claims. (Cl. 294—34)



3. A pouring handle for a container having peripheral flanges projecting upwardly from the top and downwardly from the bottom, comprising a single long bar having at one end a lip adapted to hook over and engage with the inner side of the bottom flange of the container and having at its other end means, including a cam device pivoted directly to the bar for engaging and gripping the upper flange of the container and placing said bar under tension.

2,288,360
METHOD AND APPARATUS FOR INTERCONNECTING MANIFOLD SETS OF STATIONERY
Louis Jensen, Chicago, Ill., assignor to United Autographic Register Co., a corporation of Illinois
Application January 12, 1939. Serial No. 250,644
17 Claims. (Cl. 154—42)



1. The method of interconnecting manifold sets of stationery sheets into tandem relation, which comprises: moving the sets seriatim into longitudinal spaced relation with the rear marginal portion of one of the sheets in an advanced set of forms lapping a front marginal portion of a sheet in the next succeeding set of forms; and connecting the overlapping sheets, while the sets are continuously advancing forwardly.

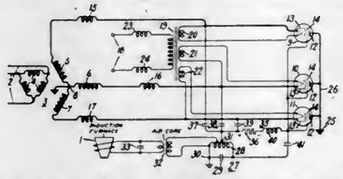
6. Apparatus for linking manifold sets of sheets, comprising: conveyor-means for moving the separate sets transversely; a conveyor angularly disposed to the conveyor-means and operating in timed relation thereto to receive the sets singly seriatim from said conveyor-means and advance them in partially overlapped longitudinally spaced relation; and means for connecting the overlapped marginal portions of the sets as they are advanced continuously by the last mentioned conveyor.

2,288,361
HOSIERY
Otto Kress and Charles E. Johnson, Appleton, Wis., assignors to The Institute of Paper Chemistry, Appleton, Wis., a corporation of Wisconsin
No Drawing. Application June 23, 1939, Serial No. 280,704
19 Claims. (Cl. 8—136)

9. The steps in the method of treating silk hosiery which comprises impregnating the hosiery with an emulsion consisting of an aqueous alkali dispersion of soya bean casein, a pre-vulcanized rubber latex, a paraffin wax and ammonium oleate, removing excess emulsion from the hosiery and breaking the emulsion remaining in the hosiery by impregnating the hosiery with a dilute aqueous aluminum sulphate solution containing a small amount of formaldehyde, the ratio of casein to wax being about 1:1 and the ratio of casein to rubber being about 1:5, said emulsion containing about 5 percent rubber.

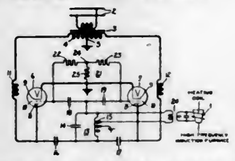
2,288,362
ELECTRIC VALVE FREQUENCY CHANGER
Elmer D. McArthur, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application August 17, 1940. Serial No. 353,133
5 Claims. (Cl. 250—36)

1. In combination, an n phase alternating current supply circuit where n is greater than 2, an alternating current load circuit of a frequency high relative to the frequency of said supply circuit, electric translating apparatus connected between said circuits and comprising an electric oscillator including a plurality of electrically displaced windings having a point thereof at ground potential, a plurality of electronic discharge devices each energized by a different one of said windings and each comprising an anode, a cathode and a control grid and an oscillatory circuit energized by said windings and said discharge devices, means for connecting the anodes of all of said electronic discharge



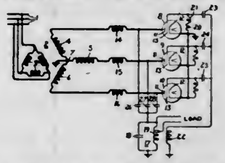
devices to ground, means for connecting each of the cathodes to a different one of said windings, and a control circuit common to all the control grids and connected to provide a path between said grids and said point of reference potential and comprising a resistance for impressing on said grids an n phase rectified negative unidirectional biasing potential produced by the combined action of the grid rectification characteristics of said electronic discharge devices.

2,288,363
ELECTRIC VALVE FREQUENCY CHANGER
Elmer D. McArthur, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 15, 1941, Serial No. 388,703
3 Claims. (Cl. 250—36)



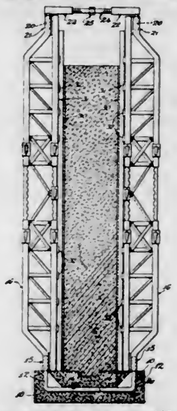
1. In combination, a single phase alternating current supply circuit, a high frequency alternating current load circuit, electric translating apparatus connected between said circuits and comprising an electric oscillator including a pair of electrically displaced windings having a point of reference potential, a pair of electronic discharge devices each connected to a different one of said windings and each including a plurality of principal electrodes, comprising an anode and a cathode, and a control grid and an oscillatory circuit energized by said windings and said electronic discharge devices, corresponding principal electrodes of said discharge devices being connected to said windings and different corresponding principal electrodes being connected directly to said point of reference potential, a control circuit exclusive of the anode-cathode circuits of said electronic discharge devices for selectively increasing the negative biasing potential impressed on said grids during the negative half cycles of voltage of said supply circuit applied between said principal electrodes and comprising a pair of serially connected resistances connected between said grids and having a common juncture and a resistance connected between said juncture and said point of reference potential, and means for coupling said control circuit to said oscillatory circuit.

2,288,364
HIGH FREQUENCY ELECTRIC VALVE GENERATOR
Elmer D. McArthur, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 15, 1941, Serial No. 388,704
4 Claims. (Cl. 250—36)



1. In combination, an alternating current supply circuit, a high frequency load circuit, electric translating apparatus connected between the circuits and comprising an electric oscillator comprising a plurality of windings having a common terminal connected directly to a point of reference potential and a plurality of electronic discharge devices each comprising a pair of principal electrodes and a control grid, and an oscillatory circuit connected to be energized by said windings and said discharge devices, means for coupling said oscillatory circuit to said grids, means for connecting corresponding principal electrodes of said discharge devices to said windings and for connecting other corresponding principal electrodes directly to said point of reference potential, a plurality of individual means energized exclusively by grid currents and each connected to a different one of said discharge devices for impressing on the associated grid a negative unidirectional biasing potential and each comprising in series relation between the grid and the associated cathode an inductance and a resistance for producing a biasing potential which is the envelope of the high frequency component of excitation derived from said oscillatory circuit and which increases in magnitude during the negative half cycles of applied anode-cathode voltage.

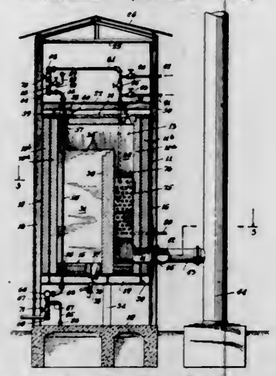
2,288,365
WALL FORM SUPPORT
Raymond J. Moths, Shorewood, Wis.
Application July 12, 1940, Serial No. 345,047
1 Claim. (Cl. 25—131)



In a form support for use with a concrete construction having a base, a U-shaped member adapted to be embedded in said base with the

ends thereof projecting out of the base and extending parallel to the sides of the form, a pair of trusses, each truss including a tubular chord, one end of each of said tubular chords being engaged over an end of the U-shaped member to support that end of each truss, and a second U-shaped member having parallel pins engaged in the opposite ends of said tubular chords to support that end of each truss.

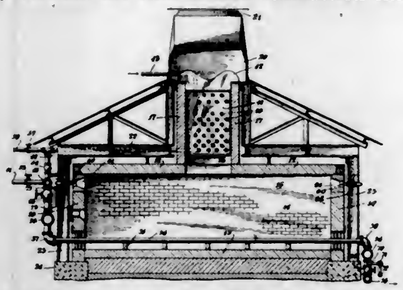
2,288,366
FURNACE
Winchell M. Parsons, Alhambra, Calif.
Application April 22, 1940, Serial No. 330,886
3 Claims. (Cl. 196—116)



2. A furnace for heating fluids comprising a pair of spaced side walls, a bridge wall parallel with said side walls dividing said furnace into a combustion zone and a convection zone, a row of burners disposed to direct a flame and hot combustion gases substantially vertically into the combustion zone in contact with and substantially parallel to said bridge wall to heat the same to radiance, a plurality of transverse walls extending between said bridge wall and the side wall of the combustion zone to divide the combustion zone into a plurality of separate combustion chambers, a bank of converter tubes in each of said combustion chambers, each bank comprising a single row of parallel-connected, vertical converter tubes extending along but spaced from the side walls of said combustion zone out of the main path of the flame and hot combustion gases to receive radiant heat from the flame, the hot combustion gases and the bridge wall, reflected heat from the adjacent side wall, and convection heat from said combustion gases, whereby a rapid and efficient heat transfer is obtained suited to quickly raise the fluid to a high temperature, means for selectively removing each bank from stream, and a bank of serially connected horizontal convection tubes in said convection zone to receive heat by convection and radiation from the hot gases from all of said combustion chambers.

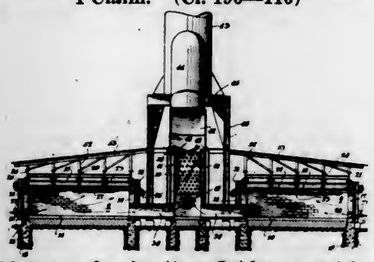
2,288,367
TUBE STILL
Winchell M. Parsons, Alhambra, Calif.
Application May 2, 1940, Serial No. 332,901
5 Claims. (Cl. 196—116)

4. A furnace for heating fluids, comprising a roof, floor and side and end walls forming a rectangular combustion zone, a plurality of separated longitudinal division walls parallel to said side walls dividing said combustion zone into a plurality of separate combuston chambers, a horizontal bank of horizontal converter tubes in each combustion chamber out of the main path of the flame and hot combustion gases, the tubes extending parallel to said side walls with their ends projecting through the opposite end walls, inlet and outlet headers located beyond the respective end walls of each chamber and connected to provide for the parallel flow of fluid through the converter tubes of each bank, a convection chamber containing a bank of convection tubes located in said roof and extending transversely across all of said combustion chambers to receive combustion gases therefrom, said convection chamber being located about midway between the ends of said combustion cham-



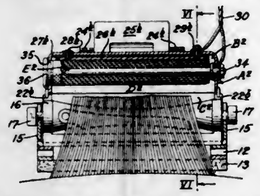
bers and being comparatively narrow in section whereby a substantial roof area is obtained on each side of said convection chamber, a horizontal row of burners in each end wall near said roof firing substantially horizontally and parallel to said converter tubes towards said convection chamber, said burners being arranged to heat the roof to radiance whereby said converter tubes are heated by radiant heat from the flame and from said roof, and means associated with the respective inlet and outlet headers for selectively shutting down said banks of converter tubes whereby one of said banks may be removed from stream without interfering with the operation of the remaining banks or with the flow of combustion gases through the convection zone.

2,288,368
FURNACE
Winchell M. Parsons, Alhambra, Calif.
Application May 31, 1940, Serial No. 338,147
1 Claim. (Cl. 196—116)



A furnace for heating fluids comprising an elongated convection chamber containing a bank of horizontal convection tubes, a plurality of separate combustion chambers spaced along each side of said convection chamber in opposite pairs, each combustion chamber comprising front and rear walls and a pair of side walls forming a substantially closed chamber with the rear wall positioned toward said convection chamber and carrying a horizontal bank of roof tubes extending between said front and rear walls, a horizontal row of burners located in the front wall of each combustion chamber near the floor thereof, firing substantially parallel to said converter tubes and toward said rear wall, and a plurality of ducts spaced along the lower part of the rear wall of each combustion chamber, said ducts being substantially parallel and extending directly into the lower part of the side of said convection chamber so as to supply gases to said convection chamber uniformly along the length thereof for heating the convection tubes therein and ducts withdrawing combustion gases vertically from the top of said convection chamber after passage over said convection tubes, said ducts being spaced along the top of said convection chamber, one duct being opposite each of said pairs of combustion chambers to receive the combustion gases therefrom with a minimum change in direction.

2,288,369
APPARATUS FOR HAIR WAVING
Alexander M. Poniatoff, Redwood City, Calif.
Application March 7, 1939, Serial No. 260,345
2 Claims. (Cl. 219—24)

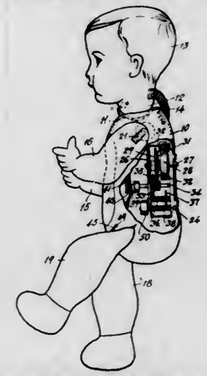


1. A hair waving apparatus comprising a heater unit including a hollow casing consisting of a substantially rigid housing forming a heater chamber and a pair of complemental casing sections forming a treating chamber communicating with said heater chamber, said casing sections being hingedly mounted for transverse separation to open said treating chamber for the insertion of a curler spindle, opposed electric contact members disposed in said heater chamber and provided with terminals projecting through the housing wall for connection with electric circuit wires, and an electrolytic heater element adapted for insertion in the heater chamber through an opening in the wall of said housing to engage said contact members, one of said electric contact members being a rod axially aligned with said opening, and the electrolytic heater element having an axial hole therein into which said rod engages.

2,288,370
PURIFICATION AND RECONCENTRATION OF SPENT SULPHURIC ACID
Chester L. Read, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application September 8, 1939, Serial No. 293,924
3 Claims. (Cl. 23—172)

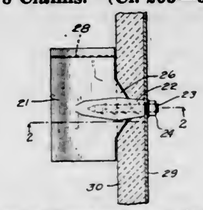
1. In the purification and reconcentration of spent sulphuric acid that had been used as a catalyst in the condensation of olefins and paraffins, the steps which comprise adding sufficient water to such spent sulphuric acid to dilute said acid so that the aqueous acid phase that is later separated out is of a concentration of 50% sulphuric acid, settling at 200° to 250° F., separating an aqueous acid phase, distilling the said aqueous acid phase containing more than 1% of carbon at a super-atmospheric pressure of 25 to 75 pounds per square inch and at a temperature of about 300° to 350° F., separating the volatile fractions, concentrating the said residual layer by blowing with hot air and fortifying with sulphur trioxide.

2,288,371
MOVABLE DOLL AND THE LIKE
Julius Rothschild, Sonneberg, Germany, assignor to Geo. Borgfeldt Corporation, New York, N. Y., a corporation of New York
Application March 14, 1939, Serial No. 261,711
In Germany May 13, 1938
5 Claims. (Cl. 46—119)



1. A movable doll or the like comprising a hollow body, a head separate from said body, spring means connecting said head with said body, limbs movably attached to said hollow body and having positions of rest, a spring motor contained in said hollow body, an eccentric driven by said spring motor, draw members connecting said head and each of said limbs to said eccentric and adapted upon rotative movement of said eccentric to move said limbs successively from their resting positions and to coact with said spring means to move said head, a shaft, gearing connecting said shaft with said spring motor and a weight eccentrically mounted on said shaft so that as the latter is rotated by said spring motor, the body portion of the doll is given a vibratory squirming motion.

2,288,372
INSERT IN ROTARY FURNACES
Heinrich Rump, Leverkusen-Wiesdorf, Germany
Application July 1, 1939, Serial No. 282,542
In Germany March 24, 1938
8 Claims. (Cl. 263—32)



8. In a rotary furnace comprising a shell and a heat-resisting lining, an insert capable of withstanding high temperatures and provided with a single shaft and a projecting rib, single means

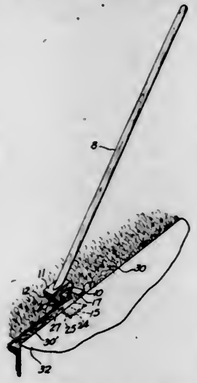
embedded in said shaft to secure said insert to said shell, the insert being supported solely by said shell, and guiding means in said heat-resisting lining to cooperate with said rib to secure said insert against rotation.

2,288,373
ELECTRICAL CONDUCTOR WITH IMPROVED HYDROCARBON INSULATOR
Warren M. Smith and Carroll J. Wilson, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application February 27, 1939, Serial No. 258,662
11 Claims. (Cl. 174—25)



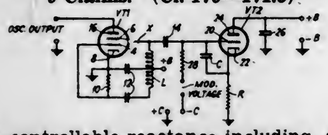
1. An electrical conductor insulated inside a casing with an organic insulation comprising a refined hydrocarbon oil of normally high chemical stability and a sufficient quantity of an alkyl hydroxy aryl mono-sulfide non-corrosive to copper miscible therewith to materially reduce gas evolution coming from the insulation due to the influence of high voltage electrical discharges on the oil.

2,288,374
LAWN EDGING, WEEDING, AND SOIL-WORKING TOOL
James W. Steele, North Kansas City, Mo.
Application June 3, 1940, Serial No. 338,481
1 Claim. (Cl. 97—227)



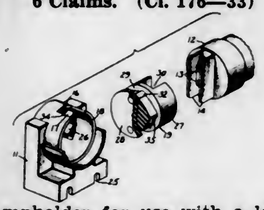
A lawn edging and soil cultivating implement comprising a combination gaging and supporting block having a flat upper face and a curved bottom face for rocking engagement upon the soil surface, a handle secured in inclined relation to the upper face of said block, and a cutting blade comprising an upright shank portion attached to one of the side faces of said block and a horizontal portion formed with an outer straight edge for abutting engagement with a guiding means, said upright and horizontal blade portions having front and rear cutting edges converging continuously from said outer straight edge to the extreme upper end of said upright shank portion of the blade.

2,288,375
FREQUENCY MODULATION
Charles L. Townsend, Bronxville, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application July 19, 1940, Serial No. 346,309
9 Claims. (Cl. 179—171.5)



1. A controllable reactance including, an electron discharge device having a grid, an anode, and a cathode, a reactance connected in an alternating current path between said grid and cathode, a resistance connected between said anode and cathode, means for applying alternating current in shunt to said reactance and resistance in series whereby alternating current flows in said resistance and reactance and alternating current relayed by said tube flows in said resistance, and a voltage the value of which varies with variations in the alternating current flowing in said reactance is developed across said reactance and a reactive effect of a value which varies with said voltage variations is produced across said reactance.

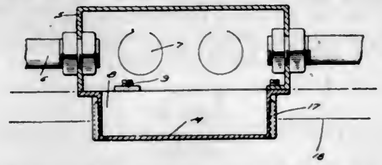
2,288,376
LAMP HOLDER
Edward B. Tuppen, Rugby, England, assignor to General Electric Company, a corporation of New York
Application October 31, 1940, Serial No. 363,779
In Great Britain November 22, 1939
6 Claims. (Cl. 176—33)



1. A lampholder for use with a lamp having spaced aligned contact prongs comprising, in combination, a base member of insulating material having spaced contact members, a rotatable member on said base operative upon turning of the lamp, said rotatable member being provided with a slot for receiving the lamp prongs by straight line movement therethrough, and means operative upon rotation of said rotatable member by turning the lamp to effect an electrical connection between the lamp contact prongs and the said contact members.

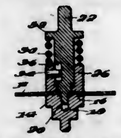
2,288,377
COVER PLATE FOR ELECTRICAL OUTLET BOXES
George O. Tuttle, Maywood, Ill.
Application January 28, 1941, Serial No. 376,372
3 Claims. (Cl. 220—3.4)

3. A cover plate for outlet boxes comprising an attaching flange, a front wall disposed in a plane spaced outwardly in parallelism from the plane of the flange, a continuous wall connecting the front wall to the flange inwardly of the marginal edges of the latter, spaced circumferential grooves on the continuous wall forming weakened portions therein for severing along a predetermined line to remove the front wall, and ribs on the continuous wall transversely of the grooves and having threaded openings longitudinally therein for receiving attaching screws for



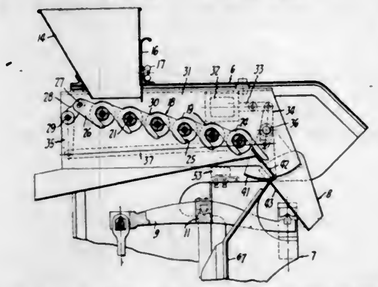
a finishing plate to be secured to the outer edge of the continuous wall after the front wall has been removed, said rib being severed flush with the unsevered portion of the continuous wall.

2,288,378
DIMPLING TOOL
Hermann E. Veit, Parkville, Md., assignor to The Glenn L. Martin Company, Baltimore, Md.
Application July 16, 1941, Serial No. 402,709
1 Claim. (Cl. 153—10)



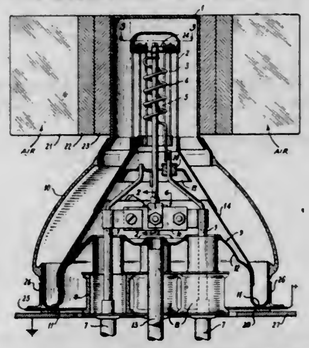
A dimpling tool comprising a peen and an anvil adapted to engage a sheet of material for producing a dimple therein, and means for bending slightly the material in an area immediately adjacent said peen in a direction opposite the dimpling movement of said peen, and means for holding said material in said area against stretching while the peen forms a dimple therein.

2,288,379
WEIGHING MECHANISM FEEDER
Edric W. Vredenburg, Oakland, Calif.
Application December 31, 1940, Serial No. 372,457
10 Claims. (Cl. 221—118)



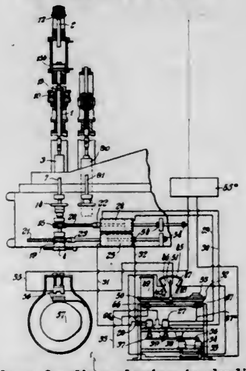
1. A device of the character described comprising a hopper for a supply of material, a plurality of rolls arranged in a side by side relationship beneath said hopper with the upper surfaces of said rolls in substantially a common plane, each roll having a plurality of circumferential grooves formed therein, the grooves in one roll being aligned with those in adjacent rolls, means for rotating said rolls in the same direction, and a plurality of members extending in the direction of said grooves and movable from a position below said plane to a position substantially above said plane.

2,288,380
HIGH FREQUENCY RADIO TUBE
Arthur K. Wing, Jr., Chatham, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 2, 1941, Serial No. 372,867
5 Claims. (Cl. 250—27.5)



1. An electron discharge device comprising a cup-shaped anode, a dish-shaped sheet metal header, a glass bulb hermetically joined to the rim of the anode and to the rim of the header, a cathode, a control grid and a screen grid coaxial with and in said anode, lead-in conductors hermetically and insulatingly sealed through the bottom of said header and connected to said cathode and control grid, a metal cone coaxial with said anode and surrounding said conductors, the small end of the cone being joined to one end of said screen grid and the large end of the cone being joined to said header.

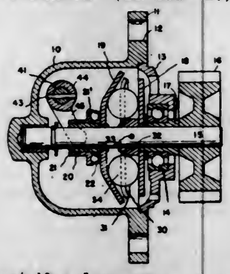
2,288,381
GLASS FEEDING DEVICE
John Thomas Wood, Bootle, Liverpool, England
Application August 20, 1938, Serial No. 226,001
In Great Britain August 21, 1937
6 Claims. (Cl. 49—55)



1. In a glass feeding device including variable gob control means, apparatus for adjusting the working movement of the gob control means in response to variations in weight of the articles formed from gobs delivered by the feeding device comprising pneumatic power actuated means for varying the working movement of the gob control means, a pneumatic power supply circuit for energizing said power actuated means, valves in said power supply circuit, means for weighing the article, means actuated by the

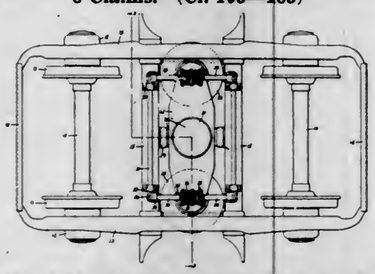
weighing means in response to variations in the weight of said articles from a predetermined standard weight to control operation of said valves, an energy control device in said valve control means, and means for actuating said energy control device in predetermined time relation to the operation of said weighing means.

2,288,382
GOVERNOR
Herman G. Adler, Detroit, Mich., assignor to Novi Equipment Company, Novi, Mich., a corporation of Michigan
Application March 31, 1941, Serial No. 386,137
8 Claims. (Cl. 264—17)



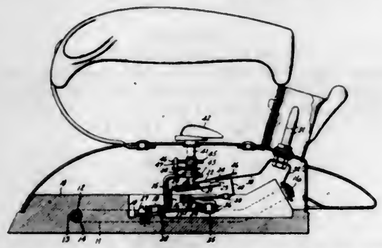
1. In a centrifugal governor, a rotary driving member having outwardly extending slots, means for rotating said member, a pair of plates at opposite sides of said member, said plates being formed to provide an outwardly reduced space therebetween, said plates being mounted for substantially free rotation and for relative axial movement, and balls in said slots engaged by annular surfaces of said plates, whereby the entire surfaces of said balls and annular surfaces of said plates are bearing surfaces, at least one of said surfaces being provided with commercial, hard, unpolished chromium plate.

2,288,383
RAILWAY TRUCK
Robert G. Anderson, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application October 30, 1940, Serial No. 363,414
8 Claims. (Cl. 105—185)



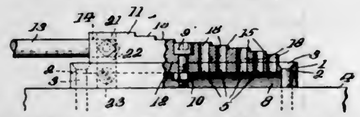
1. A vehicle truck having a frame including side frames and a pair of transoms extending therebetween, a bolster arranged between said transoms, means for supporting said bolster on said truck frame for relative lateral and vertical movement therebetween, a tilting restraint device including a torque rod mounted on one of said transoms, a pair of arms, means for providing a pivotal connection between one end of one of said arms and an end of said bolster, means for providing a pivotal connection between an end of the other of said arms and the other end of said bolster, and means for connecting the other end of each of said arms to said torque rod with one arm arranged adjacent each end of said rod for pivotal movement about an axis extending substantially transversely of said rod at an angle for providing a tilting lateral pendulum motion centering force to said bolster about a predetermined center.

2,288,384
TEMPERATURE RESPONSIVE CONTROL DEVICE
Harold R. Batchelor, Ontario, Calif., assignor to General Electric Company, a corporation of New York
Application August 27, 1940, Serial No. 354,380
7 Claims. (Cl. 200—138)



1. A temperature control device for a heated medium comprising a bimetallic element having one end secured in direct thermal relation with said medium and its opposite end free to move, control means for controlling the application of heat to said medium operated by movement of said free end of said bimetallic element, and means for preventing the temperature attained by said medium in the first cycle of operation of said control means from substantially exceeding the temperature attained in the second and succeeding cycles of operation of said control device, said means comprising a secondary bimetallic element and a heat conducting bracket for mounting said bimetallic element on said free end of said primary bimetallic element so that said primary bimetallic element substantially shields said secondary bimetallic element from direct radiation from said heated medium.

2,288,385
RIVET CUTTER
Charles L. Beard, Lancaster, Pa.
Application October 29, 1941, Serial No. 417,042
3 Claims. (Cl. 164—40)



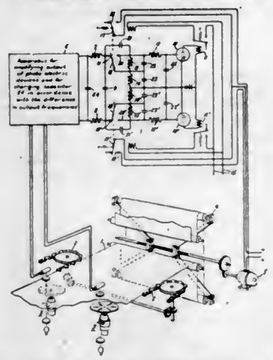
1. A cutting tool for aircraft rivets comprising a fixed base member having a series of aligned rivet receiving openings therein, said openings being of varying diameters, a cutting member rotatably mounted on said base member and being formed with a plurality of offset portions having a series of aligned rivet receiving openings therein, said openings being of varying length and diameter and coinciding with the openings in said base member, and means for rotating said cutting member relative to said base member for shearing a rivet arranged in two of said coinciding openings.

2,288,386
METHOD OF MANICURING AND ARTICLE FOR SAME
Charles W. Belden, Chicago, Ill., assignor to Steiner Sales Company, Chicago, Ill., a corporation of Utah
Application October 18, 1941, Serial No. 415,556
11 Claims. (Cl. 132—88.7)



1. In a method of manicuring nails on digits, the steps of first selecting a thin preformed cover of nail finishing material of a size and configuration conforming closely with that of the particular nail being treated, applying said cover over the exposed surface of the nail and bending the same so as to become flush with and conform to that surface, adhering the cover to that surface by tightly pressing the cover against that surface, applying a further cover of the same material over said previous cover to conceal any undulations in the nail not covered by the first cover, and thereafter trimming the extremity of the cover to the desired shape.

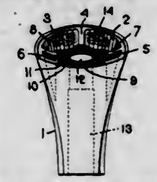
2,288,387
APPARATUS FOR STRAIGHTENING WOVEN MATERIAL
Theodore M. Berry, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Original application April 22, 1938, Serial No. 203,551. Divided and this application December 29, 1939, Serial No. 311,537
4 Claims. (Cl. 175—320)



1. In combination, a capacitor, an electroresponsive device, means controlled by a charge on said capacitor for causing said device to have alternate periods of operation and non-operation, and means in cooperation with said means for causing the length of the periods of operation to increase and the length of the periods of non-operation to decrease in response to an increase in said charge.

2,288,388
TRANSPARENT OR TRANSLUCENT SHOE HEEL
John Bolten, Andover, Mass., and Robert H. Goldbaum, Plaistow, N. H.
Application September 19, 1940, Serial No. 357,344
4 Claims. (Cl. 36—34)

1. A moulded integral shoe heel formed of plastic material having one or more wide cavities located in proximity to the curved peripheral portion of the heel on opposite sides of the longitudinal central plane of the heel and extending a substantial distance downwardly from the heel seat and providing a central integral heel seat

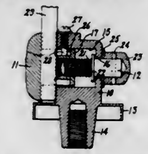


portion of sufficient area to receive the nails for attaching the heel to the shoe, and having a reticulated heel seat surface presenting closely associated angularly disposed surfaces acting to avoid deflection of the nail when driven into the heel seat.

2,288,389
COATED SHEET AND METHOD OF PREPARING SAME
Robert C. Bour, Chicago, Ill., assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia
No Drawing. Application December 2, 1939, Serial No. 307,279
17 Claims. (Cl. 41—31.6)

1. A sheet adapted to receive and retain color impressions of increased fastness to light and high color intensity by contact with a configuration of an aqueous or alcohol soluble dye susceptible to fading in light, comprising a flexible base sheet having distributed over the contact surface a composition comprising a water swellable clay in a substantially unswollen condition, said copy sheet being characterized by greater porosity than a sheet coated with said water swellable clay in the swollen condition, and the particles of clay on said copy sheet being substantially larger than the particles produced by drying a coating containing water swollen clay.

2,288,390
ELECTRICAL CONNECTOR
Michael Broverman, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application February 7, 1941, Serial No. 377,886
1 Claim. (Cl. 173—259)



An electrical connector comprising a body member provided with a substantially rectangular recess opening on one face thereof and with an opening extending through the opposing face thereof and communicating with said recess, a clamping member having a conductor receiving opening formed therein and also having a portion of rectangular cross section positioned in said recess, said clamping member being provided with a threaded opening extending in a direction substantially perpendicular to said conductor receiving opening and in alignment with the opening is said body member, said clamping member having portions extending beyond the recess in

said body member and in opposed relation to portions of said body member surrounding said recess to provide opposed surfaces of extended area between said body and said clamping member, a threaded fastening means extending through the opening in said body member and having threaded engagement with the threaded opening of said clamping member, said fastening means being provided with means cooperating with said body member to prevent substantially longitudinal movement with respect thereto so that rotation of said fastening means is effective to determine the relative positions of said body and said clamping member, and interengaging means on said body and clamping member for limiting the relative movement of said members in a direction to increase the size of said conductor receiving opening extending beyond the face of said body member to prevent accidental disassembly of said members.

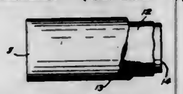
2,288,391

METHOD OF MAKING LONG DRAFT APRONS

Frank H. Carman, Lancaster, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania

Original application November 21, 1939, Serial No. 305,429. Divided and this application August 8, 1940, Serial No. 351,885

7 Claims. (Cl. 154—2)



1. In the method of making long draft aprons for use in fiber drawing, the steps comprising, impregnating a seamless, tubularly woven fabric foundation with a synthetic rubber composition, drying the fabric, slightly extending the dried fabric, applying a synthetic rubber wearing surface to said fabric, and vulcanizing the wearing surface in situ.

2,288,392

CONDENSATION PRODUCT OF ARYL AMINE AND LONG CHAIN ALIPHATIC COMPOUND

Garland H. B. Davis, Hillside, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application July 19, 1938, Serial No. 220,001

8 Claims. (Cl. 260—576)

1. An improved wax modifying agent comprising essentially a high molecular weight alkylated aryl condensation product of a paraffinic hydrocarbon having a chain of at least ten carbon atoms and an aryl amine, the amount of paraffinic substance being considerably in excess of the amount of the amine, said product resulting from an alkylation of the ring of the aryl amine and being substantially non-volatile at temperatures up to about 600° F.

8. The process which comprises essentially chlorinating paraffin wax to a chlorine content of about 11%, dechlorinating the product by gradual heating to about 650° F. to obtain the corresponding olefin, adding said dechlorinated wax together with diphenyl amine to tetrachlorethane as solvent, mixing said materials at room temperature and adding aluminum chloride thereto, using proportions of said materials corresponding to the following amounts:

Dechlorinated wax	grams	100
Diphenyl amine	do	5
Tetrachlor-ethane solvent	cc	75
Aluminum chloride	grams	15

next refluxing the resultant mixture at the boiling point of the solvent for about three hours, cooling and hydrolyzing the mixture with a mixture of ice and hydrochloric acid and extracting the condensation product with kerosene, separating and washing the extract free of acid and distilling the condensation product under high vacuum to about 600° F. to remove kerosene solvent and unreacted wax and to recover as distillation residue a high molecular weight oil-soluble product having pour-depressing properties.

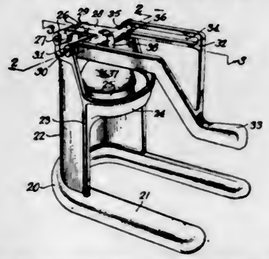
2,288,393

FRUIT PRESS

Raymond J. Cheesman, Morgantown, W. Va.

Application June 20, 1938, Serial No. 214,821

11 Claims. (Cl. 100—41)



1. A press comprising the combination of a bifurcated lever having its arms fulcrumed to a support, a circular pressure member slidingly secured at its pressure axis to said lever, means operable by said lever for moving said pressure member during the effective movement of said lever to a point where its pressure axis is nearer the fulcrum of said lever than one half the diameter of said pressure member.

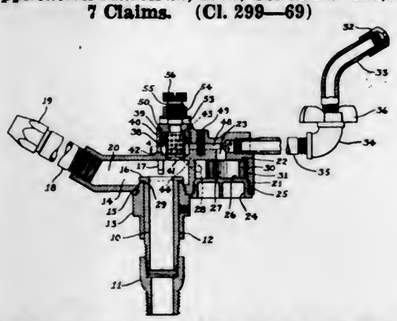
2,288,394

SPRINKLING APPARATUS

Walter H. Coles and Bert J. Nelson, Troy, Ohio, assignors to The Skinner Irrigation Company, Troy, Ohio, a corporation of Ohio

Application March 22, 1940, Serial No. 325,412

7 Claims. (Cl. 299—69)



1. A sprinkler comprising a support, a head rotatably carried by said support and having a water supply passage, a distributing pipe extending substantially radially from the head and in free communication with said water supply passage, a water chamber in said head, a passage extending from the water supply passage to the water chamber, vibration means in the chamber operated by water flow through the chamber to vibrate the head, reaction means for distributing water from the chamber and rotating the head, means for bypassing water from the water supply passage to the reaction means independent of water flow through the water chamber, and adjustable means on said head operable to adjust the relative rates of flow from the water supply passage through the water chamber and through the by-passing means to change the rate of vibration imparted to the head.

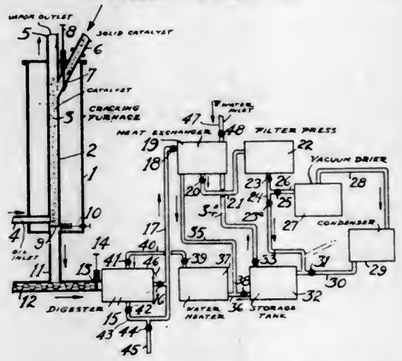
2,288,395

CRACKING WITH WATER SOLUBLE CATALYST

Carleton Ellis, Montclair, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application August 12, 1938, Serial No. 224,494

1 Claim. (Cl. 196—52)



In a process in which higher boiling petroleum hydrocarbons in vapor form are cracked in the presence of a solid water-soluble inorganic salt as a catalyst at a cracking temperature of about 850° F. to 910° F. to produce lower boiling hydrocarbons until the catalyst becomes inactive due to deposits of water-insoluble carbonaceous material, the catalyst being in solid form when first contacted with the hydrocarbon vapors and being substantially stable, non-fusible and non-volatile at the cracking temperature, the steps of regenerating the inactive catalyst which comprise mixing the inactive solid catalyst in a liquid medium consisting essentially of hot water to dissolve the water-soluble catalyst without dissolving the carbonaceous material, removing undissolved carbonaceous material, cooling the clear solution and recrystallizing the catalyst from the water solution, the catalyst being one which does not undergo any substantial hydrolysis when contacted with water.

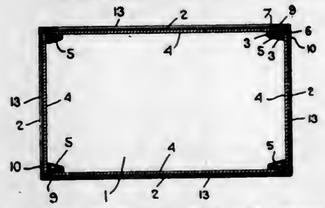
2,288,396

MILL BOX AND THE LIKE

Albert F. Fyans, Fall River, Mass.

Application March 15, 1941, Serial No. 383,606

5 Claims. (Cl. 217—12)



1. A rigid mill box or the like comprising a thick rigid bottom of fibrous material, vertical sheet metal side wall plates overlying and rigidly secured to the respective edges of said bottom having reversely bent hook-shaped end portions presenting flanges parallel to and suitably spaced from the side wall, lining sheets of fibrous material for the respective side walls having their end portions extending into the respective spaces between the side walls and the end flanges thereof, rigid sheet metal corner locking plates provided with edge flanges bent to interlock with the flanges at the contiguous ends of adjacent side plates acting to clamp the ends of said lining sheets against their respective side walls, and rigid vertical metal angle plates embracing the respective corners of the box welded to the adjacent metal side walls.

2,288,397

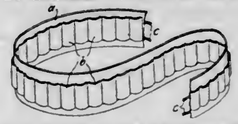
CURTAIN HEADING TAPE

George Frederick French, Manchester, England, assignor to Roger French, Manchester, England, and himself

Application August 20, 1940, Serial No. 353,430

In Great Britain August 19, 1939

10 Claims. (Cl. 139—384)



1. A curtain heading tape comprising a relatively long main tape of interwoven warp and weft threads and a series of small groups of open-ended hook-tubes woven of warp and weft and integrally with said main tape, an approximately equal number of the hook-tubes lying on each face of said main tape, said tubes alternating singly or in small groups on opposite sides of said tape, the adjacent hook-tubes being contiguous, the hook-tube straps being formed from a single undivided set of warp threads interwoven with said tape, whereby the tape may be applied to a curtain with either of its sides next the curtain, and either way up.

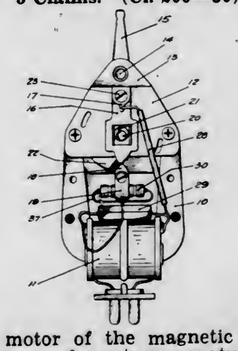
2,288,398

CURRENT INTERRUPTER

John A. Hanley, Noroton, Conn., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware

Application May 7, 1941, Serial No. 392,196

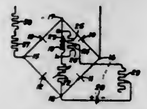
5 Claims. (Cl. 200—30)



3. In a motor of the magnetic type having field windings and a rotary armature; a current interrupter including a rocker, an elongated metal enclosure carried thereby and having

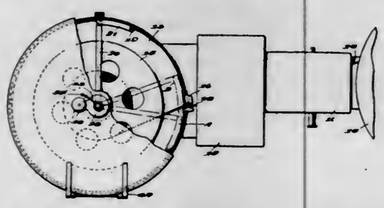
spaced electrodes, and an intermediate conductive member constructed and arranged to move longitudinally between said electrodes and having a section therein which is mounted for transverse movement and maintained at all times in contact with said metal enclosure.

2,288,399
ELECTRICAL MEASURING DEVICE
Stephen C. Hoare, Manchester, and Allen T. Sinks, Beach Bluff, Mass., assignors to General Electric Company, a corporation of New York
Application October 11, 1940, Serial No. 360,782
7 Claims. (Cl. 171—34)



7. An electrical measuring network, input terminals for impressing a voltage on said network, rectifier means, a direct current responsive device including a current conducting winding, means connecting said rectifier means and said winding in series circuit relation with respect to each other in said network, an impedance element connected in parallel with said winding, said impedance element having a terminal intermediate the ends thereof, an auxiliary source of uni-directional potential, and means connecting said auxiliary source of potential in a circuit including said intermediate terminal and said rectifier means for causing an auxiliary biasing current which flows through said rectifier means in order to increase the sensitivity of the direct current responsive device.

2,288,400
SAFETY DEVICE FOR MOTION PICTURE PROJECTORS
Herbert H. Hull and Joseph Fred Barton, Jr., Johnston City, Tenn.
Application October 16, 1940, Serial No. 361,456
21 Claims. (Cl. 116—67)

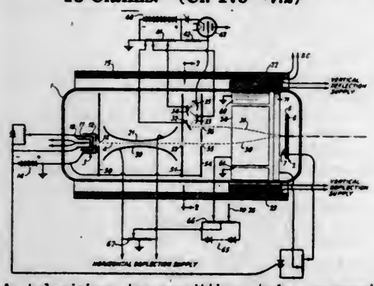


1. In a motion picture projection apparatus, a compartment adapted to enclose a moving film, a door mounted on the compartment, a feeler arm rotatably mounted on said door, means for biasing the feeler arm to a rest position, said feeler arm being rotatable to engagement position for engagement with the film, operating means for setting the feeler arm from rest position to a pre-engagement position against the action of the biasing means and for releasing the feeler arm for movement by the biasing means from pre-engagement position to engagement position, said operating means being actuated by movement of the door, and alarm means responsive to movement of the feeler arm to rest position under action of the biasing means.

2,288,401
METHOD OF TREATING DIESEL FUEL
Stewart H. Hulse and John O. Collins, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application March 28, 1940, Serial No. 326,360
7 Claims. (Cl. 44—9)

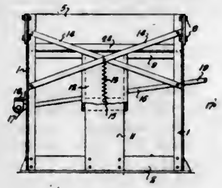
1. A method for improving sour Diesel fuel petroleum distillates which comprises adding to a sour petroleum Diesel fuel distillate oil containing at least 10 mg. of mercaptan sulfur per 100 ml. of said oil, lead sulfide, an alkali and reactive sulfur, the reactive sulfur being added in a proportion to form by reaction with the mercaptans stabilized organic compounds containing from 20 to about 200 mg. of active sulfur per 100 ml. of the oil and reacting the mercaptans with the reactive sulfur in the presence of the lead sulfide, substantially all combined lead persisting as a catalyst throughout the reaction to form stabilized organic sulfur compounds which satisfactorily permit the product to pass the A. S. T. M. copper strip corrosion test in which the copper strip is exposed to the product for three hours at 122° F.

2,288,402
TELEVISION TRANSMITTING TUBE
Harley A. Iams, Summit, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 29, 1941, Serial No. 376,453
18 Claims. (Cl. 178—7.2)



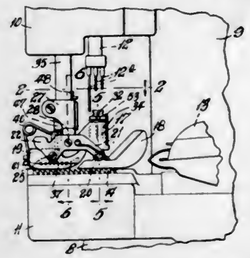
1. A television transmitting tube comprising an evacuated envelope, an electron source, means adjacent the source to accelerate electrons in a direction longitudinally of said envelope, an extended area target having its effective center offset from the initial path of said beam, means adjacent said target to decelerate said electrons to a longitudinal velocity of substantially zero adjacent said target, a magnetic coil extending over the entire path between said source and target to generate a longitudinal magnetic field, a pair of deflection plates adjacent said source and said means to deflect electrons from said source in one direction over the width of said target, means between said plates and said target to deflect the said electrons in a direction perpendicular to said target width, electron lifting means to lift the said electrons to scan the electrons over the effective height of said target in said perpendicular direction, a secondary electron emitter having a length at least equal to the effective width of said target positioned between said deflection plates and said target to liberate secondary electrons when impinged by a portion of said electrons not reaching said target and an electron collecting electrode likewise having a length at least equal to the effective width of said target and adjacent said secondary electron emitter.

2,288,403
CEMENT BLOCK MOLDING APPARATUS
William Frederick Jurgenson, Hamilton, Ontario, Canada
Application March 31, 1941, Serial No. 385,994
1 Claim. (Cl. 25—41)



In a block molding apparatus of the character described, a frame, four vertical corner posts in said frame, a molding cell structure open at its top and bottom and detachably mounted within the confines of the upper end portions of the corner posts, a reciprocable member contained within the confines of the corner posts and movable towards and away from the bottom of the molding cell structure, a removable block supporting plate of substantially the same dimensions as the bottom of the molding cell structure and resting upon the top of the reciprocable member, a pair of vertical telescopic members in each end of the frame between the corner posts and having their lower ends secured to the frame and their upper ends secured to the reciprocable member, a manually actuable vertical swingable lever mounted within the frame of the apparatus and having one end pivoted at one side of the frame and the other free end carrying a foot plate and projecting from the opposite side of the frame, a pair of bars extending between the upper telescopic members and between which the swingable lever extends and by means of which the movement of the lever is transmitted to the upper telescopic members, a spring extending from the frame to one of the movable telescopic guide members and manually urging the guide members and block supporting plate upwardly, and a latch carried upon the lower portion of the frame, and adapted to be manually engaged with the lever to retain the lever in the lowermost position against the influence of the spring.

2,288,404
PRESSER FOOT FOR SEWING MACHINES
George F. Kahre, Portland, Oreg.
Application October 27, 1939, Serial No. 301,523
11 Claims. (Cl. 112—235)



2. A presser foot for a sewing machine having a yoke, a fabric pressing section pivoted on one side to said yoke, and an adjustable bearing carried by said yoke and pivoted to the other side of said section.

2,288,405
RECOVERY OF ZINC VALUES
Raymond J. Kepfer, Lakewood, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 3, 1940, Serial No. 317,131
3 Claims. (Cl. 23—97)

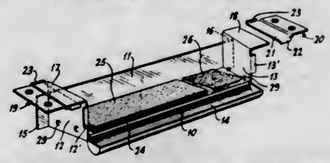
1. In a process for recovering values from galvanizers' sal skimmings containing insoluble material and zinc and ammonium chlorides in the ratio of less than 3 moles of ammonium chloride per mole of zinc chloride, the steps comprising treating the skimmings with a dilute ammonium hydroxide solution, the amount and concentration of ammonium hydroxide in the treating solution being sufficient to precipitate at least a portion of the zinc chloride as basic zinc chloride but insufficient to form ammoniated zinc chloride from the zinc chloride, and separating the insoluble material and precipitated basic zinc chloride from the treating solution.

2,288,406
POSITIONING MEANS FOR ELECTRIC SWITCHES
Donald G. Kimball, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Original application April 13, 1938, Serial No. 201,786. Divided and this application August 14, 1940, Serial No. 352,602
6 Claims. (Cl. 74—527)



1. In a positioning mechanism for an electric switch having a rotatable switch operating element, a stationary element having indentations formed in a wall thereof, a plate having opposed studs mounted on the rotatable element, links having rollers disposed in said indentations, said links being mounted on said studs, and torsion springs mounted on said studs bearing against said links to maintain said rollers within said indentations.

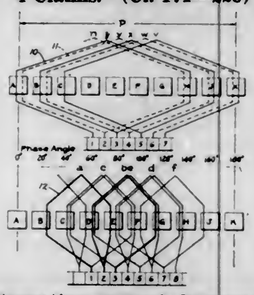
2,288,407
PENCIL POINTER
Edmund J. Lada, Woodhaven, N. Y.
Application July 2, 1941, Serial No. 400,743
12 Claims. (Cl. 120—89)



1. A device for sharpening pencils including a plate member provided with supporting legs at the opposite ends of said plate member, said plate member having means provided with a sharpening surface between said legs, and means cooperating with said legs for securing said plate member to a supporting surface, said last means

including a pair of oppositely positioned elements between which said legs are slidably received.

2,288,408
ALTERNATING CURRENT COMMUTATOR MACHINE
Arthur C. Lane, Rugby, England, assignor to General Electric Company, a corporation of New York
Application April 10, 1941, Serial No. 387,957
In Great Britain April 18, 1940
4 Claims. (Cl. 171—228)



1. An alternating current dynamoelectric machine having a slotted core and a commutator, a main winding of less than 100 per cent pitch having coils connected to said commutator, an auxiliary winding of 33⅓ per cent pitch also connected to said commutator, said windings being contained in the slots of the core and the machine having a sine wave flux distribution, each coil of the main winding being connected across the same commutator segments as a two-coil section of the auxiliary winding, the two coils of such section of the auxiliary winding being offset from each other in different slots such that the voltages of the main and auxiliary winding parts connected across the same segments are equal and in phase.

2,288,409
FREE-FLOWING SALT COMPOSITION
Alfred Lippman, Jr., and Rock L. Comstock, Weeks, La., assignors to Bay Chemical Company, Inc., New Orleans, La., a corporation of Louisiana
No Drawing. Application May 28, 1940, Serial No. 337,732
7 Claims. (Cl. 99—143)

3. A process of improving the flow and anti-caking qualities of hygroscopic salt compositions comprising admixing about 40 parts by weight of magnesium carbonate with about 1 part by weight of calcium stearate and mixing about 1.0% of this mixture with the hygroscopic substance.

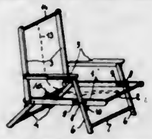
6. A composition of hygroscopic salt of improved free flowing and non-caking qualities comprising salt of particle size from 20 to 60 standard mesh with about 0.5% to 1.5% of a drier of the group consisting of magnesium carbonate, calcium carbonate and calcium phosphate intermixed with about 1/40 its weight of aluminum soap.

2,288,410
STABILIZATION OF PEROXIDE
Alfred Lippman, Jr., Weeks, La., assignor to Bay Chemical Company, Inc., New Orleans, La., a corporation of Louisiana
No Drawing. Application November 19, 1940, Serial No. 366,313
16 Claims. (Cl. 252—186)

1. A composition comprising a mixture of alkali-earth metal peroxide stabilized against deterioration by moisture with finely divided water-insoluble salt of fatty acid.

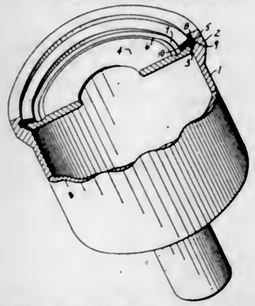
11. A composition comprising at least 90% sodium chloride, about 0.5% calcium peroxide, and intimately distributed through the mixture from 0.01 to 1% magnesium laurate of particle size to pass substantially a 44-micron sieve.

2,288,411
FOLDING CHAIR
Oscar Löwenherz, Brussels, Belgium, and Martin Behrens, Cologne, Germany
Application August 29, 1938, Serial No. 227,445
In Germany October 22, 1937
1 Claim. (Cl. 155—117)



In a folding arm chair in combination, a seat frame, a back frame, a pair of braces supporting arm rests, said seat frame, back frame, arm rests and braces forming adjustable quadrilaterals at the sides, the members of each quadrilateral being pivotally connected to each other at three of the four corners of the quadrilateral, while the two parts meeting in the fourth corner are in permanent slideable engagement with each other, two checks fixed to different faces of one of the two parts meeting in the fourth corner of each movable quadrilateral and embracing the other of said parts, being spaced from each other by a distance sufficiently exceeding the thickness of said other part at the meeting point to allow relative displacement of the parts whenever they extend substantially at right angles to each other.

2,288,412
SPINNING BOX
Henry J. McDermott, Prospect Park, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application December 21, 1940, Serial No. 371,117
1 Claim. (Cl. 57—76)

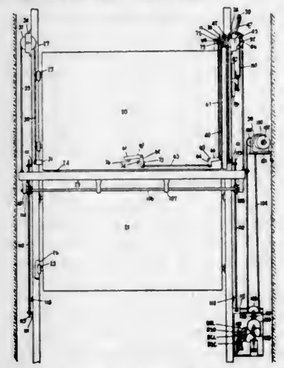


A device for collecting yarn and the like comprising a spinning box having an annular groove formed in its inner wall adjacent its open end, a cover member having an annular groove in its upper surface adjacent its periphery and a retaining means comprising a relatively narrow annular member of flexible resilient material having a continuous outer bead portion fitting in the groove of the inner wall of the spinning box and a continuous rim portion extending inwardly and downwardly into the groove in the cover member, said rim portion being of less thickness than the bead portion.

2,288,413
PLASTICIZED ARTICLE OF MANUFACTURE
Willard L. Morgan, Edgewood, R. I., assignor to Sylvania Industrial Corporation, Fredericksburg, Va., a corporation of Virginia
No Drawing. Application August 2, 1938, Serial No. 222,642
1 Claim. (Cl. 106—168)

As an article of manufacture, a pellicle of hydrophilic cellulosic material, a plasticizer in the pellicle of the type which may be used in relatively large quantities without rendering the surface of the pellicle tacky, producing brittleness in the pellicle for impairing the transparency and strength thereof, and comprising a water-soluble aliphatic nitrogen compound containing pentavalent nitrogen and selected from the group consisting of quaternary ammonium compounds and salts of amines and amides, said plasticizer being present in an amount between 10 and 20 per cent of the weight of said pellicle.

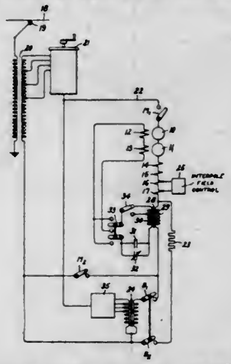
2,288,414
CONTROL SYSTEM FOR CLOSURES
Clifford Norton, Summit, N. J., and Philip Karmel, New York, N. Y., assignors to Otis Elevator Company, New York, N. Y., a corporation of New Jersey
Application December 14, 1940, Serial No. 370,120
12 Claims. (Cl. 187—54)



5. In an elevator system in which closure means is provided for controlling access to and from the elevator car at a floor, electric direct current motive means for operating said closure means, a close push button, means responsive to the pressing and holding pressed of said close push button for causing operation of said motive means to close said closure means, and means for dynamically braking said motive means upon release of said close push button before the closure means reaches closed position.

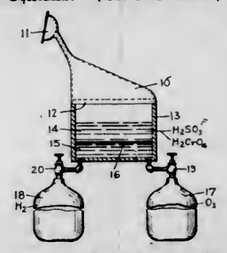
2,288,415
CONTROL SYSTEM
Harold S. Ogden, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application April 3, 1941, Serial No. 386,684
8 Claims. (Cl. 172—179)

8. In a motor control system the combination of a single phase alternating current motor having an armature and an inductive field winding, said field winding being connected for energization continuously during operation of said motor in response to the total current passing through said armature, means for improving the power factor of said motor consisting of a capacitor connected in series circuit relation with said field winding and also arranged for energization continuously during operation of said motor in



response to the total current passing through said armature, said capacitor having a capacitive reactance substantially equal to the inductive reactance of said field winding so that said capacitor and said field winding are substantially in electrical series resonance, and switching means for connecting said motor to a source of alternating current supply.

2,288,416
APPARATUS FOR THE TREATMENT OF HAY FEVER
Eugene V. O'Neill, Waterbury, Conn.
Application October 30, 1940, Serial No. 363,505
3 Claims. (Cl. 128—172)

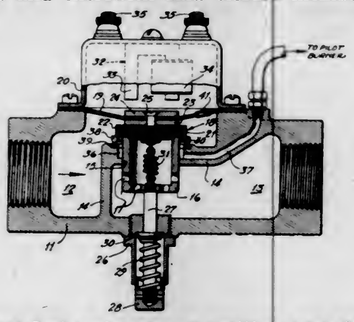


3. In an apparatus for the treatment of hay-fever and other respiratory ailments, a receptacle containing a solution of chromic acid, means to cause a gas to rise through said solution in such a manner that it will mechanically entrain a small quantity of fine chromic acid particles therein in the form of a mist, and means for administering said gas with its entrained chromic acid particles by inhalation to the respiratory tract of a patient.

2,288,417
MANUAL RESET VALVE
Eugene Paille, Los Angeles, Calif., assignor to General Controls Co., Glendale, Calif., a corporation of California
Application March 4, 1940, Serial No. 322,101
10 Claims. (Cl. 137—139)

1. In a fluid control valve, a valve body having an inlet and an outlet, means separating said

inlet and said outlet and including a movable partition having a passage therethrough, a closure member for said passage and biased to closed position, mechanical means for moving said partition while maintaining said passage closed and therewith said closure member be-



tween a first and a second position, and electromagnetic means effective when energized to retain said closure member in said second position against its bias when said partition is returned to said first position whereby said passage is opened.

2,288,418

MANUFACTURE OF MIXED PHOSPHATES

Everett P. Partridge, Beaver, Pa., assignor to Hall Laboratories, Inc., Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application November 1, 1939, Serial No. 302,345

5 Claims. (Cl. 23—106)

1. A process of making water soluble glassy mixed molecularly dehydrated phosphates, which comprises heating to a temperature above fusion and sufficient to drive off substantially all of the water of constitution a mixture containing potassium chloride, sodium chloride and phosphoric acid in the ratio of not more than 6 mols of total chloride to 3 mols of phosphoric acid and from about 0.1 to not more than 2.3 mols of potassium chloride to 1 mol of sodium chloride, and rapidly chilling the fused material.

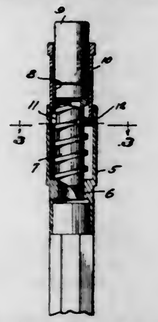
2,288,419

REMOVABLE ERASER FOR PENCILS

John D. Patrick, Oceanport, N. J.

Application February 4, 1941, Serial No. 377,379

4 Claims. (Cl. 120—38)



1. An eraser comprising a tubular body portion adapted to be fitted over one end of a pencil, a threaded member within the body portion and spaced from the wall thereof, a cup on the end of the threaded member and in which an eraser is held, a guard sleeve positioned on the threaded member and adapted to move over the eraser, a finger extending inwardly from the guard sleeve and cooperating with the threads of the threaded member in moving the guard sleeve longitudinally of the body portion, as the guard sleeve is rotated.

2,288,420

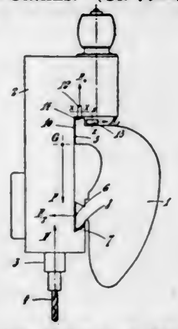
CARRIAGE CONTROL MEANS OF MACHINE TOOLS

Marcel Pégard, Paris, France

Application January 5, 1940, Serial No. 312,458

In France August 29, 1939

13 Claims. (Cl. 77—27)



1. In a machine of the type described, the combination of a support including top and bottom slideways disposed respectively toward the top and bottom of said support, both including guiding faces extending in substantially vertical planes, the top slideway further including a horizontal surface and a second vertical guiding face parallel and opposed to the first mentioned guiding face thereof, a carriage having guiding surfaces adapted to cooperate with the guiding faces of said support, the center of gravity of said carriage being located on the opposite side of said first-mentioned vertical guiding face to said second vertical guiding face of the top slideway, and rollers of vertical axis journalled on said carriage adapted to run along said last mentioned vertical guiding face of said top slideway, to balance one of the horizontal reactions of the torque produced by the weight of said carriage, the bottom slideway being adapted to oppose movement of the carriage about a horizontal axis.

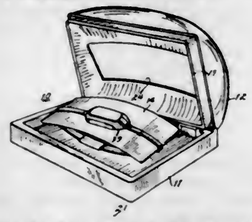
2,288,421

RECEPTACLE

Merrill L. Rathbun, Salamanca, N. Y.

Application October 5, 1939, Serial No. 298,109

2 Claims. (Cl. 206—75)



1. A receptacle for an article of merchandise comprising a base, an element disposed above and adapted at least in part to cover said base, hinge means securing said element to said base, a spring means urging said element into covering position with respect to said base, said element having a centrally disposed aperture therein, a removable pad, spring means joined to and adapted to mount said pad in said base, said pad with an article thereon being insertable into said base in a manner to register said article in part with said aperture when said element is in position to cover said base, the spring means of said element being relatively stronger than the spring means of said pad and in opposed direction whereby to compress the spring means of said pad and clamp and secure an article against displacement when said element is closed upon said base.

2,288,422

MIXED UREAS

Alfred Rohm, Leverkusen I. G.-Werk, Germany, assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application November 13, 1939, Serial No. 304,177. In Germany November 11, 1938

4 Claims. (Cl. 260—506)

(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)

1. Process for the preparation of mixed water-soluble ureas from urethanes of the general formula:

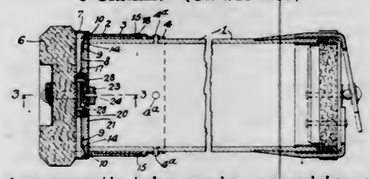
$$R{-}O.CO.N{-}R'$$
$$\quad\quad\quad

straight, generally parallel, artificially produced, organic fibers, said fibers being generally parallel to the plane of said sheet, said fibers having an



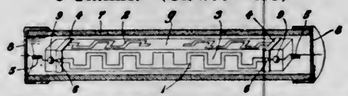
average length of at least one inch, and an average diameter of at least .0010 inch; and separate reinforcing means retaining said fibers in position.

2,288,427
PNEUMATIC TUBE CARRIER
Maurice P. Anderson, Chicago, Ill.
Application August 2, 1940, Serial No. 349,693
6 Claims. (Cl. 243—35)



1. A pneumatic tube carrier comprising a hollow receptacle for receiving material, open at both ends, an adjustable indicating device at one end comprising a cylindrical part having an inwardly turned flange attached to said hollow receptacle, a ring rotatably mounted upon said part and having a series of notches on its edge, a closing member on the interior of said hollow receptacle, attached to said flange, an end piece of non-metallic material, a cup-shaped member connected therewith, a disc in said cup-shaped member, and a spring connected with said disc, a portion of said disc fitting into the space on the interior of the flange on said cylindrical part so as to maintain the ends of said spring in proper engagement with said ring.

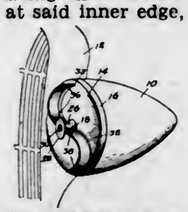
2,288,428
DEVICE FOR PROTECTING ELECTRICAL APPARATUS FROM VOLTAGE SURGES
Egon Babler, Brighton, England
Application June 5, 1940, Serial No. 338,856
In Great Britain June 20, 1939
8 Claims. (Cl. 200—115)



1. A device for protecting electrical apparatus from voltage surges embodying therein an electro-non-conductive base, electric terminals carried by said base, layers of electro-conductive material carried by said base, one end of each layer being connected with an electric terminal and the other ends of said layers being spaced apart to form a gap, the dimensions of said layers being such as to be immediately destroyed in the event of arcing across said gap.

2,288,429
HEADLIGHT WIPER
Charles Baughn, Visalia, Calif.
Application August 1, 1941, Serial No. 405,043
3 Claims. (Cl. 15—250)

1. A wiper comprising a substantially S-shaped blade having an arcuate inner edge, glass wiping means at said inner edge, a bore in said



blade, a shaft in said bore, and suction means on the end of said shaft for positioning said wiper on a glass surface.

2,288,430
SCANNING APPARATUS
Herman Carl Bauman, Brooklyn, N. Y., assignor to J. Sterling Getchell, Inc., New York, N. Y., a corporation of New York
Application July 26, 1940, Serial No. 347,742
14 Claims. (Cl. 88—20)

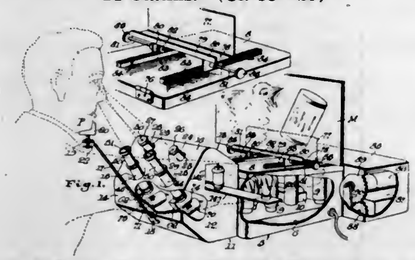
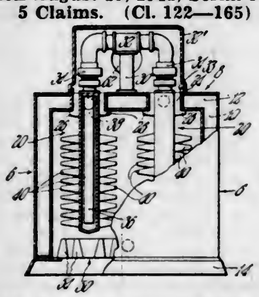


Fig. 1.

1. A device for recording the binocular movements of an individual's eyes, comprising a casing, a source of light located in the casing for projecting rays of light on the corneas of the individual's eyes, photo-electric cells mounted in the casing adapted to receive reflections from the projected light source, a vertically apertured mask positioned in front of one of said cells adapted to vary the intensity of horizontally moving light rays imposed thereon, a horizontally apertured mask positioned in front of the other cell adapted to vary the intensity of vertically moving light rays on said cell, and a recorder energized by the intensity of light imposed on the photo-electric cells for producing a single record of the movement of both eyes.

2,288,431
WATER HEATING APPARATUS
John B. Beauvais, Holyoke, Mass., assignor to Albina Beauvais
Application August 19, 1941, Serial No. 407,477
5 Claims. (Cl. 122—165)



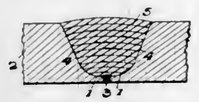
1. A water heater comprising in combination,

an outer casing having side and upper walls including interconnected spaced wall members providing interconnected vertical and upper water spaces, the upper wall provided with rectangular openings, hollow inner water compartments rectangular in cross section having upper ends disposed in said openings, spacers between opposite sides of said compartments and adjacent sides of the openings forming passageways at the upper sides of said compartments, water connections between the upper water chamber and compartments above the upper wall of the outer casing, a cover member on the upper wall of the casing around said connections having an outlet, and burners below said inner water compartments.

2,288,432
TEXTILE FINISHING
Wyly M. Billing, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 23, 1939, Serial No. 280,807
14 Claims. (Cl. 117—143)

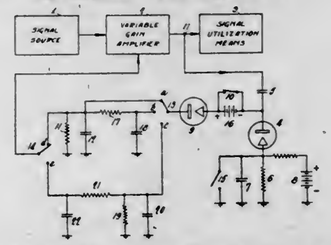
2. Process of finishing a textile fabric which includes treating the fabric with a dispersion containing a glycol ester of a rosin, said ester having a melting point within the range of about 35° to about 70° C., removing excess dispersion from the fabric and drying the fabric at a suitable elevated temperature.

2,288,433
WELDING JOINT
Hans Nielsen Boetcher and John William Hudnall, Jr., Baltimore, Md., assignors to Consolidated Gas Electric Light and Power Company of Baltimore, Baltimore, Md., a corporation of Maryland
Application August 19, 1939, Serial No. 291,088
12 Claims. (Cl. 219—10)



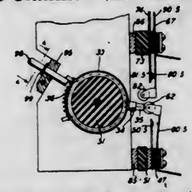
1. The method of welding the ends of pipe, pipe sections, walls of pressure containers and conduits, and the like, of moderate or heavy metal thicknesses and in the absence of a backing element, where a transverse or circumferential joint is to be formed or one that is accessible from only one side thereof, which includes the steps of shaping the edges to be welded to form protruding lips at the root which are integral and homogeneous with and formed of the same material as the entire edges to be united, said lips being of a thickness approximating light gauge pipe or plate and having a shape and thickness suitable for the butt welding of light gauge pipe or plate with substantially complete penetration to the root, opposing the extremities of said lips at a spacing suitable for butt welding of relatively light gauge pipe or plate with substantially complete penetration to the root, and in two separate steps, first butt welding the opposed lips together by fusion welding, in the absence of a backing element at the joint, so that only approximately the contiguous extremities of said lips are joined, and then thereafter filling the groove formed by the butt welding of the lips with weld metal.

2,288,434
AUTOMATIC GAIN CONTROL SYSTEM
William E. Bradley, Northampton, Pa., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application March 14, 1941, Serial No. 383,454
10 Claims. (Cl. 179—171)



1. In an electrical signalling system, a source of a modulated carrier wave signal, a variable gain amplifier for said signal, apparatus for developing a control voltage proportional to the peak amplitudes of said carrier wave signal, said apparatus comprising means responsive to carrier peaks of one polarity and separate means responsive to carrier peaks of opposite polarity, means for modifying the responsiveness of at least one of the aforesaid means thereby substantially to reduce its tendency to modify the envelope of said carrier wave signal, and means for utilizing said control signal to control the gain of said amplifier.

2,288,435
REMOTE CONTROL APPARATUS
Bennie O. Browne, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 24, 1940, Serial No. 358,126
6 Claims. (Cl. 74—568)

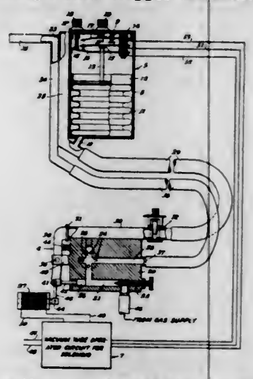


1. In a device of the character described, a cylindrical member having a tapered wall circumferential groove and a cam member adapted to be adjustably mounted in said groove, said cam member comprising a split ring of resilient material.

2,288,436
RESUSCITATING DEVICE
Alvin M. Cahan, New York, N. Y.
Application October 3, 1941, Serial No. 413,405
12 Claims. (Cl. 128—29)

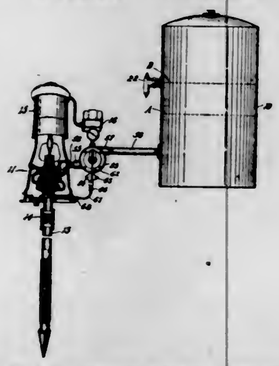
1. In a device of the character described, an intake conduit for conveying a gas to a person's tracheal passage, an exhaust conduit communicating with said intake conduit and also with the atmosphere, inlet and outlet valves for said intake and exhaust conduits, electro-magnetic means for operating said inlet and outlet valves, a vacuum tube operated trigger mechanism for controlling the operation of said electro-magnetic means and means, communicating with said exhaust conduit and responsive to predetermined upper and lower pressure limits within the entire

system, for establishing a plurality of electrical circuits through said trigger mechanism to con-



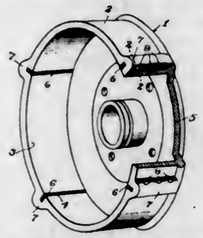
trol the functioning of said electro-magnetic inlet and outlet valve-operating means.

2,288,437
AIR CHARGER FOR STORAGE TANKS
William J. Conery and Carleton H. Newmier, Ashland, Ohio, assignors to The F. E. Myers & Bro. Co., Ashland, Ohio, a corporation of Ohio
Application July 22, 1941, Serial No. 403,508
15 Claims. (Cl. 103—6)



1. In a fluid pressure system having a water pressure pump, an actuating means for the pump, a pressure water and air tank, and a pressure controlled means for starting and stopping said pump, a pipe leading from the discharge side of the pump to said tank, an air charger located in said pipe between the pump and the tank, said air charger having an open passageway and a normally closed passageway and means in said air charger for drawing atmospheric air into the water stream from the pump when the pump starts to operate, and discharging the air mixed with the water into the tank, through the open passageway, a pipe connected to the air charger and to the intake side of the pump, and valve means in the air charger under the influence of the pump suction and subjected to the higher pressure on the pump discharge side of said valve means so that said valve means is operated by the difference of pressures for equalizing the pressure on opposite sides of said open passageway for rendering said air entrainment ineffective and for opening the closed passageway to provide a main pump discharge some time after the pump starts to operate.

2,288,438
BRAKE DRUM
Max Dach, Flushing, N. Y.
Application August 8, 1940, Serial No. 351,848
7 Claims. (Cl. 188—218)



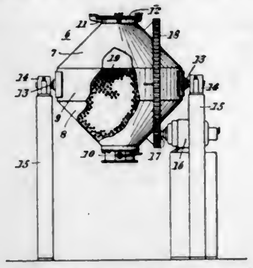
2. A ferrous metal brake drum formed exteriorly with a plurality of spaced radially outwardly extending lugs and interiorly with a braking surface, said braking surface in line with each of said lugs having a radially extended groove and a metal filling for each of said grooves formed of metal having lower resonant properties than the metal of said drum.

2,288,439
FIXTURE
Einar Axel Dahm, Eskilstuna, Sweden
Original application October 15, 1937, Serial No. 169,092. Divided and this application February 3, 1940, Serial No. 317,108
6 Claims. (Cl. 248—217)

1. A wall fixture of the character described comprising a support member adapted to seat against a wall and provided with a single central opening, a positioning element assembled with said support member and having a first aperture disposed in axial alignment with said opening, said positioning element being provided with at least two additional apertures, the axes thereof converging towards each other and meeting at said opening, two fastening members carried in said additional apertures, respectively, and extending into the wall supporting said fixture, and a securing member extending between the single opening in said support member and said first aperture of said positioning element, said securing member having a portion in contact with portions of said fastening members to secure the latter in their positions.

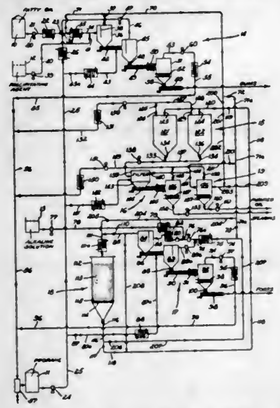
2,288,440
MIXING APPARATUS
Thomas M. Evans, Pittsburgh, Pa., assignor to H. K. Porter Company, Inc., Pittsburgh, Pa., a corporation of Pennsylvania
Application October 1, 1941, Serial No. 413,113
2 Claims. (Cl. 259—81)

1. A mixing apparatus comprising a receptacle having generally frusto-conical terminal portions joined at their bases by an intermediate generally cylindrical portion, the axes of the terminal and intermediate portions being aligned, means for mounting said receptacle for rotation about an axis transverse to said aligned axes, and a partition member within said receptacle and disposed in a plane substantially parallel to the plane defined by said aligned axes and said axis of rotation, said partition extending from the small end of one of said frusto-conical terminal portions towards the other frusto-conical portion



and having a free terminal edge within the region of the receptacle enclosed by said cylindrical intermediate portion, said partition engaging throughout its length the walls of the receptacle.

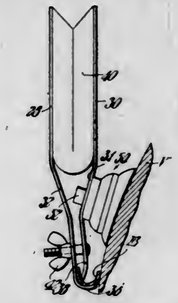
2,288,441
PROCESS FOR REFINING ANIMAL AND VEGETABLE OILS
Frederick J. Ewing, Pasadena, Calif.
Application May 19, 1939, Serial No. 274,649
5 Claims. (Cl. 260—425)



1. The process of removing gummy materials from crude fatty material containing the same which comprises the steps of mixing said crude fatty material with liquefied normally gaseous hydrocarbon to dissolve the fatty material and precipitate gummy material, and separating said precipitated gummy material from said fatty material, said steps being carried on in the presence of said hydrocarbon and under sufficient pressure to maintain said hydrocarbon in liquid form.

2,288,442
DEVICE FOR CLAMPING FISHING RODS AND THE LIKE
George F. Felton, Millers Falls, Mass.
Application May 5, 1941, Serial No. 392,015
3 Claims. (Cl. 248—229)

3. A device for carrying fish rods and the like comprising in combination, a support, a clamping structure attached thereto including a pair of relatively yieldable and relatively movable substantially parallel arm members having upper free end portions and lower end portions adapted to engage opposite sides of the eaves-trough of an automobile and means associated with said arm members for moving them towards and away from one another, said support including a yieldable member for bearing on an automo-



bile body adjacent the said eaves-trough thereof, and cushion means including a yieldable member of sponge-rubber-like material secured to the adjacent inner faces of the upper free end portions of the arm members.

2,288,443
HOLDING DEVICE
George F. Felton, Millers Falls, Mass.
Application February 16, 1942, Serial No. 431,039
3 Claims. (Cl. 248—206)

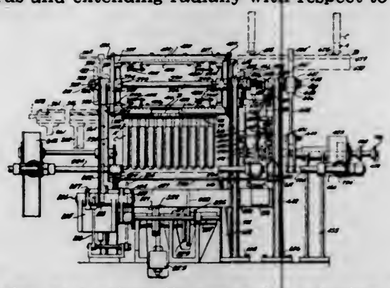


2. A holder device for pipes and the like comprising in combination, a support for attaching the device to an object in the form of a yieldable suction cup, a holder made from a single strip of relatively thin yieldable metal in the form of a U having a base and side arms extending in parallelism from opposite ends thereof that are relatively yieldable throughout their length upwardly from the base, means securing the said base and said support together, and pads of sponge rubber like material secured to adjacent inner faces of said side arms having adjacent inner faces spaced apart to provide a slot therebetween, the outer extremities of said side arms arranged in relatively diverging relation and the ends of the pads inclined inwardly downwardly from the extremities of the side arms to provide a bell mouth for said slot.

2,288,444
MACHINE FOR TREATING THIN RUBBER ARTICLES
Gustav A. Fingado, Hohokus, and Hans Ludwig, Cliffside, N. J., assignors to Julius Schmid Inc., New York, N. Y.
Application July 1, 1939, Serial No. 282,449
1 Claim. (Cl. 18—24)

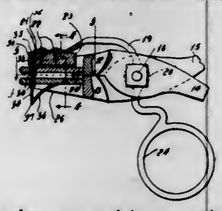
In a machine of the character described, a cylindrical spinner, a shaft extending longitudinally through the center thereof, form board guides extending longitudinally along the periphery of the spinner, a form board slidably mounted in each guide and capable of being ejected by the

entry of a new board, forms mounted on the boards and extending radially with respect to the



cylinder, and automatic means for spinning and stopping the cylinder.

2,288,445
STOCK MARKER
Absalom Guy Frizell, Greenfield, Iowa
Application November 7, 1940, Serial No. 364,745
1 Claim. (Cl. 128—316)



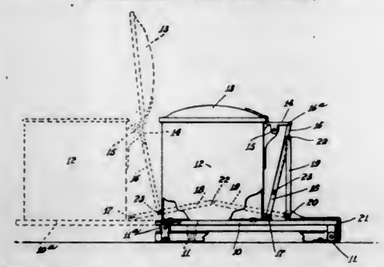
A stock marker comprising a pair of clamping members for engaging the ear of an animal, said clamping members each being bifurcated, the furcations of each of said clamping members being provided with opposed inwardly opening slots, inserts detachably mounted in said slots, said inserts being provided with corresponding openings, disposed in alinement when the clamping members are in a closed position, and a blade swingably mounted relatively to the clamping members, said blade being shaped and sized to correspond to the shape and size of said openings, said blade having an elongated lower cutting edge extending from end to end thereof and disposed for movement through the openings.

2,288,446
HAIR CURLER
Irene V. Gemerchak, Cleveland, Ohio
Application October 16, 1940, Serial No. 361,444
4 Claims. (Cl. 132—33)



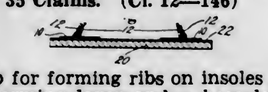
1. A hair curling device adapted to form a round curl and secure same by a bobby type hair pin comprising a tubular spindle having oppositely disposed slots extending inwardly from one end thereof, and a sliding sleeve disposed on said spindle and adapted to slide toward said end thereof over said slots, said sleeve including a flange portion having a plurality of circumferentially disposed holes extending therethrough and positioned at one end of said sleeve to engage hair wound around the slotted portion of said spindle, said holes being closely spaced and having enlarged outer end portions whereby the end of a hair pin will automatically be guided into one of said holes when moved toward said flange.

2,288,447
CONTAINER AND SUPPORT THEREFOR
Benjamin D. Goldberg, Brooklyn, N. Y.
Application May 27, 1941, Serial No. 395,345
19 Claims. (Cl. 312—150)



1. The combination with a container, of a support by which the container is moved, a stationary support for the moveable support, a cover for the container and means located behind the container cooperating with said cover, stationary support, and with a support fixed with respect to said container, for raising and lowering the cover in response to movement of the container to and fro on its moveable support.

2,288,448
MANUFACTURE OF INSOLES
Stanley M. Griswold, Newton, Mass., assignor, by mesne assignments, to B. B. Chemical Co., Boston, Mass., a corporation of Massachusetts
Application May 3, 1940, Serial No. 333,196
35 Claims. (Cl. 12—146)

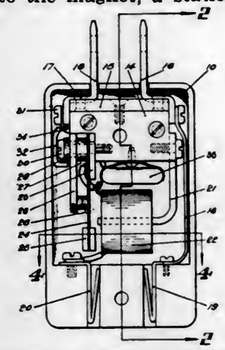


1. A strip for forming ribs on insoles comprising a rib-forming layer and a base layer both of textile material of indefinite length, the lower surface of the base layer being coated with cement whereby said layer is adapted to be secured throughout the extent of its cemented surface to an insole body, the upper surface of said rib-forming layer being coated with cement whereby the marginal portions of said rib-forming layer are adapted to be adhered together to form a sewing rib, said rib-forming and base layers being directly connected together longitudinally and continuously of the strip intermediate the margins of the layers over a wide transverse portion so that when the marginal portions of the rib-forming layer are adhered together they will taper toward each other outwardly of said base layer and will be spaced from each other adjacent to the base layer.

2,288,449
CONVERTER UNIT
John A. Hanley, Noroton, Conn., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
Application August 28, 1940. Serial No. 354,491
2 Claims. (Cl. 200—87)

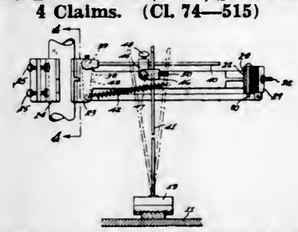
1. In a converter unit including in its structure input and output terminals, the combination with a stationary insulating block and an electro-magnet supported from one side of said block, a fulcrum piece slotted for longitudinal

adjustment in engagement with the other side of said block, a vibratory armature-carrying reed overlying the fulcrum piece and extending into proximity to the magnet, a stationary contact-



carrying arm disposed in parallel spaced relation to the reed, and a single clamping screw whereby the said fulcrum piece, reed and arm are all made fast to one side of the insulating block.

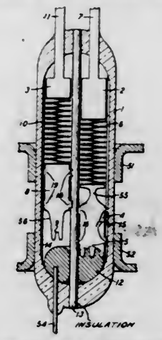
2,288,450
ACCELERATOR DEVICE
Henry W. Hapman, Detroit, Mich.
Application December 16, 1940, Serial No. 370,235
4 Claims. (Cl. 74—515)



1. Throttle operating mechanism for actuating a foot pedal throttle of a motor vehicle engine comprising, a support attachable to the vehicle, an operating lever fulcrumed on said support and arranged to be pivoted by a knee of the vehicle operator, and mechanism operatively connecting said operating lever and said foot pedal including an arm operatively connected to said lever and an adjustable slider connected to said foot pedal and slidable along said arm to different distances from the fulcrum thereof whereby to change the range of operation of said foot pedal by said lever and alter the sensitivity of operation thereof.

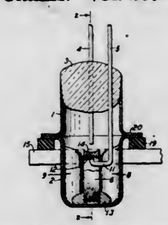
2,288,451
ELECTRIC SWITCH
Henry C. Harrison, Port Washington, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 15, 1940. Serial No. 340,651
7 Claims. (Cl. 200—112)

1. The combination in an electric switch of a closed vertical tube having a pool of mercury in the bottom thereof, a combined armature and spring member suspended from the top of said tube and normally out of engagement with said pool, a second combined armature and spring member suspended from the top of said tube and normally in engagement with said pool, the armature portions of said members being normally displaced with respect to each other, means for guiding said armatures in their vertical movements in said tube, and means for setting up a magnetic field which acts on the first



of said armatures to draw it down into engagement with said pool against the effort of the associated spring and on the other armature to draw it up out of said pool against the effort of its associated spring.

2,288,452
ELECTRIC SWITCH
Henry C. Harrison, Port Washington, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 15, 1940, Serial No. 340,654
7 Claims. (Cl. 200—112)

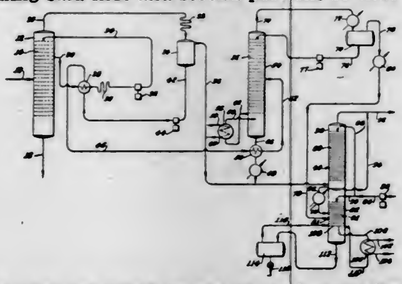


1. The combination in an electric switch of a housing envelope, a fixed solid contact mounted in said envelope and projecting into the interior thereof, a magnetic armature in the form of an annulus resting in said housing envelope in cooperative relation with said fixed contact, electromagnetic means for attracting said armature into engagement with said fixed contact, and a reservoir of mercury for wetting the contact-engaging surfaces of said armature and fixed contact.

2,288,453
SEPARATING HYDROCARBON FLUIDS
Luther R. Hill, Radburn, N. J., assignor to The M. W. Kellogg Company, New York, N. Y., a corporation of Delaware
Application May 18, 1939, Serial No. 274,339
5 Claims. (Cl. 196—11)

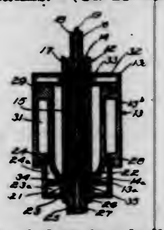
1. A method of enriching a hydrocarbon oil with C_3 and C_4 hydrocarbons derived from a lean gas and a rich gas, including the steps of subjecting said lean gas containing a substantially greater proportion of hydrocarbons lighter than C_3 than said rich gas to relatively prolonged countercurrent contact with a first portion of said hydrocarbon oil to selectively absorb C_3 and

C_4 hydrocarbons therein, subjecting said rich gas containing a greater proportion of C_3 and C_4 hydrocarbons than said lean gas to relatively brief countercurrent contact with a second portion of said hydrocarbon oil to non-selectively absorb C_3 and C_4 hydrocarbons therein, proportioning said first and second portions so that the



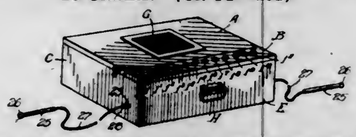
mol ratio of liquid to gas in said non-selective absorption is substantially greater than in said selective absorption, rejecting unabsorbed hydrocarbons, and combining said first and second portions to form a C_3—C_4 enriched hydrocarbon oil containing a minimum quantity of hydrocarbons lighter than C_3.

2,288,454
METHOD OF FORMING HOLLOW ARTICLES OF PLASTIC MATERIAL
John R. Hobson, West Hartford, Conn., assignor, by mesne assignments, to Plax Corporation, Hartford, Conn., a corporation of Delaware
Application May 13, 1938, Serial No. 207,698
11 Claims. (Cl. 18—55)



1. The method of forming hollow articles of organic plastic material which comprises first forming the neck of an article by injection molding of such material and then forming the body portion of said article by extruding and shaping additional material integral with the neck of said article.

2,288,455
MEANS FOR PRODUCING MUSICAL SOUNDS
Charles L. Howard, Wilmette, Ill., assignor to Helen M. Howard, Wilmette, Ill.
Application January 8, 1941, Serial No. 373,550
13 Claims. (Cl. 84—405)



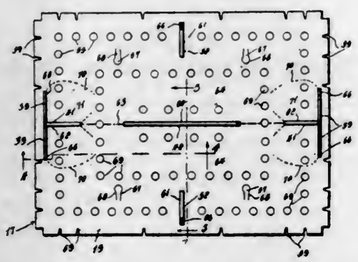
1. In an electrical musical instrument of the type having a plurality of resonating sound producing elements employing a plurality of corresponding electro-magnetically operated units each having a knocker which is adapted to vibrate one of said resonating sound producing elements, the combination of a series of solid buttons each connected to one of said magnetic units and a portable circuit closing device connected to all of said buttons through said electro-magnetically operated units and adapted to contact any one of said buttons to energize said electric magnetic units to create a musical sound.

2,288,456
APPARATUS FOR PREPARING PADS FOR SHOES
George S. Iliff, Pasadena, Calif.
Application March 21, 1941, Serial No. 384,442
7 Claims. (Cl. 12—17)



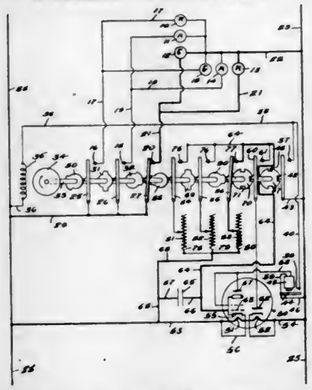
1. A heel or toe wiping device for wiping an edge covering on a shoe pad including a filler comprising: spaced plates adapted to frictionally engage the upper and lower surfaces of the pad to stretch and press overlying edges of the covering material to the upper and lower surfaces of the pad filler, at least one of said plates being adapted to yield under tension as the pad is forced between the plates.

2,288,457
POULTRY BOX
Hale M. Inman, Aberdeen, S. Dak.
Application October 17, 1940, Serial No. 361,628
12 Claims. (Cl. 229—6)



1. A chick box comprising a body portion of cardboard or the like, a longitudinal and a transverse partition disposed in the body portion and dividing it into compartments, the side and end walls of said body portion being provided with slots, tongues formed at the ends of said partitions for engaging said slots, locking means associated with the tongues for retaining them in position in the slots, all portions of the upper edges of the side and end walls being disposed at substantially the same level, a substantially flat cover for the body portion, said cover being disposed to rest on the upper edges of the side and end walls, when in a closed position, said cover having a plurality of slots, said partitions having a plurality of upwardly projecting enlargements extending through the slots, and said cover having a fold line to permit either side of the cover to be swung upwardly into an open position for exposing certain of the compartments.

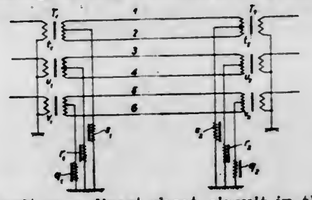
2,288,458
CYCLE TIMER CONTROL APPARATUS FOR TRAFFIC SIGNALS
Walter M. Jeffers, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York
Application December 18, 1940, Serial No. 370,692
3 Claims. (Cl. 177—337)



1. A traffic signal controller operable to effect display of the traffic signals through repeated traffic cycles comprising switching mechanism including a plurality of signal circuit contacts and a condenser discharge contact complemental to each signal circuit contact and being opened and closed in unison with the respective signal circuit contact, a motor operable to actuate said switching mechanism step by step to effect the successive operation of said signal circuit contacts and the respective condenser discharge contacts, a starting circuit and a running circuit for said motor, said starting circuit including a relay which, when energized, effects closing of said circuit, an electron discharge tube having the output thereof connected to said relay and being operable to normally energize the relay, said motor running circuit including an additional contact of said switching mechanism, said contact being normally open and being closed during each actuation of said switching mechanism, a condenser, a condenser charging circuit closed upon actuation of said switching mechanism, one side of the condenser being connected to the control grid of said tube, and a condenser discharge circuit connected through each of said condenser discharge contacts.

2,288,459
HIGH-VOLTAGE POWER TRANSMISSION SYSTEM
Julius Jonas, Zurich, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland
Application May 6, 1941, Serial No. 392,189
In Switzerland May 6, 1940
11 Claims. (Cl. 171—97)

11. In a high voltage polyphase electric transmission system, a pair of conductors for each phase, each of said pairs comprising a positive and a negative conductor for the phase corresponding thereto and being electrically insulated from each other, separate magnetically uncoupled single phase transformers supplying current to each of said pairs, separate fault extinction coils having substantially no magnetic intercoupling connecting the midpoint of the high voltage winding of each of said transformers to ground, and an automatic high-speed circuit breaker in the low voltage circuit of each of said transformers adapted to disconnect the low voltage winding on the occurrence of a double-pole

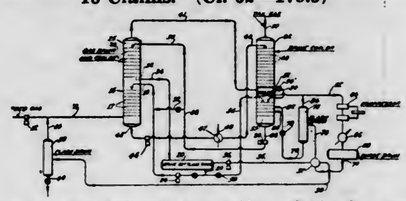


earth fault or a direct short-circuit in the single phase transmission circuit associated therewith, to reconnect the winding after a predetermined interval and to again disconnect the winding if the disturbance continues.

2,288,460
PROCESS FOR THE MANUFACTURE OF PHOSPHORIC ACID AND ITS SALTS
Jasper H. Kane, Brooklyn, and Harry G. Hansen, Richmond Hill, N. Y., assignors to Charles Pfizer & Company, Brooklyn, N. Y., a corporation of New Jersey
No Drawing. Application May 22, 1940, Serial No. 336,590
4 Claims. (Cl. 23—165)

1. Process for the preparation of phosphoric acid consisting in reacting phosphorus pentoxide with a water-free aliphatic dicarboxylic acid capable of forming a volatile organic anhydride, and heating at a temperature above the vaporizing point of the said anhydride until no further distillation occurs, thereby leaving a black tarry-appearing residue, then extracting phosphoric acid from the nonvolatile residues by treatment with water and an adsorbent, whereby after filtering a substantially colorless concentrated phosphoric acid solution is obtained.

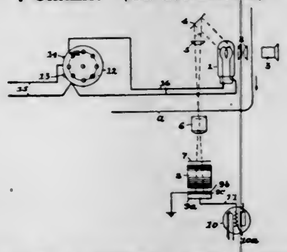
2,288,461
SEPARATING HYDROCARBON FLUIDS
Percival C. Keith, Jr., Peapack, and George Roberts, Jr., Montclair, N. J., assignors to The M. W. Kellogg Company, New York, N. Y., a corporation of Delaware
Application June 30, 1939, Serial No. 282,113
18 Claims. (Cl. 62—175.5)



16. A method of separating desired components from gaseous mixtures containing hydrocarbons which comprises passing a gas into a gas drying and cooling zone, therein contacting the gas with a relatively cold and concentrated brine to absorb moisture from the gas and cool the gas while diluting the brine and condensing higher molecular weight hydrocarbons, removing cold and dry uncondensed gases, withdrawing condensed hydrocarbons and diluted brine and separating condensed hydrocarbons as a liquid product, heating at least a portion of the diluted brine and contacting it while hot with the cold and dry uncondensed gas to reconcentrate

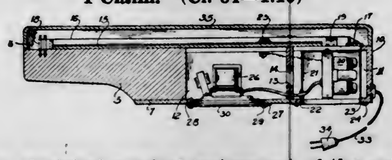
the brine, passing at least a portion of the reconcentrated brine into a refrigerating zone to refrigerate the brine, withdrawing refrigerated brine and using at least a portion thereof as the relatively cold and concentrated brine passed to said gas cooling and drying zone.

2,288,462
SOUND REPRODUCING SYSTEM
Frederick J. Kent, Glen Rock, N. J.
Application June 25, 1940, Serial No. 342,223
7 Claims. (Cl. 179—100.3)



1. A sound reproducing system including a light source, a movable sound record, means to concentrate light from said source onto a limited area of the record, a translucent screen arranged beyond the record relatively to said means and having a slit, magnifying means to project onto the area of the screen divided by the slit light escaping through the record and thereby position on the screen an image of said area, and a photo-sensitive medium in the path of light escaping through the screen and its slit.

2,288,463
ELECTRIC GUITAR
Fredray H. Kislingbury, Los Angeles, Calif.
Application October 7, 1940, Serial No. 360,063
1 Claim. (Cl. 84—1.16)



An electrical musical instrument of the guitar type comprising a body portion having a top wall with a plurality of strings secured thereon for sounding different notes, means defining a first compartment in said body portion having a rear opening, a loud speaker unit in said compartment mounted over said opening, means defining a second compartment in said body portion adjacent said first compartment, an amplifying unit in said second compartment, said second compartment having openings therein leading to said first compartment and to the top of the instrument, an electrical pick-up unit associated with said strings and means electrically connecting said electrical units for electro-acoustically translating the vibrations of the strings into sound.

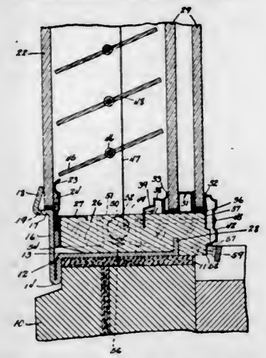
2,288,464
ELECTRIC DEHORNER
Jacob Kitchener, Princeton, N. J.
Application June 16, 1941, Serial No. 398,335
1 Claim. (Cl. 219—29)

A dehorner for cattle, sheep and goats of the age of from two to four weeks, comprising a tubular metal shank, a tubular handle formed of insulating material on one end of the shank, a cylindrical metal tip screw threadedly engaged with the shank at one end and having a thick disk closure at the other end, the outer face of the closure being provided with a concave recess adapted to be fitted over the horn of the animal,



an electric cord disposed axially in the shank and in the handle, a core of insulating material in the tip having a spiral groove on the outer surface, a helical resistance coil wound upon the core in said groove and connected to said electric cord of the tip for heating the tip to substantially a cherry red color for removing the animal's horn in minimum time and without letting of blood.

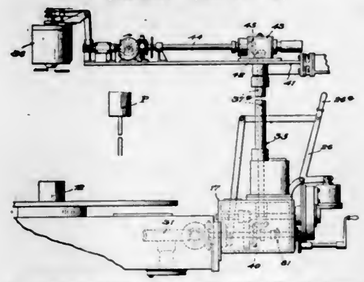
2,288,465
MULTIGLAZED WINDOW AND LIGHT SCREEN THEREFOR
Percy E. Knudsen, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Original application January 26, 1939, Serial No. 252,915. Divided and this application October 31, 1940, Serial No. 363,608
2 Claims. (Cl. 20—56.5)



1. A triple glazed window construction comprising a frame, means for securing an outer sheet of glass in the frame, a pair of spaced sheets of glass secured together by a channel element and providing an independently sealed double glazed unit, the frame and the unit being formed to permit insertion and removal of the unit as a single body from the side of the frame opposite

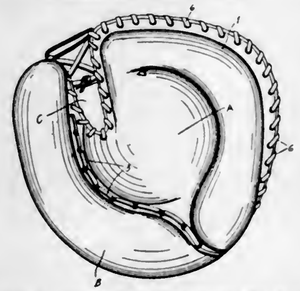
to the outer sheet of glass, and means to secure said unit in the frame in spaced relation to the outer sheet, said means comprising a screw-actuated clamping element engaging the unit and holding it in place and being operable from the exterior of the construction on the side on which the unit is disposed, whereby the unit may be removed and reinserted in the frame while the outer sheet is retained in position in the frame.

2,288,466
GLASSWARE FORMING APPARATUS
George B. Langer, Anderson, Ind., assignor to Lynch Corporation, Anderson, Ind., a corporation of Indiana
Application December 8, 1939, Serial No. 308,285
7 Claims. (Cl. 49—5)



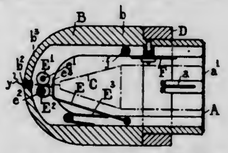
2. In combination, a mechanically driven glassware forming machine having a drive shaft geared to said forming machine, a glass feeding device for feeding charges of glass to said forming machine and a driving and synchronizing mechanism for said forming machine and feeding device, said mechanism comprising a continuously rotating sleeve surrounding said forming machine drive shaft, a clutch face on one end of said sleeve, a shiftable clutch member splined to said drive shaft for engagement with said clutch face, a driven gear on said sleeve, and means driven by said last named gear for operating said feeder in synchronism with said sleeve.

2,288,467
BASEBALL MITT OR GLOVE
Harry B. Latina, East St. Louis, Ill., assignor to Rawlings Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application April 14, 1941, Serial No. 388,451
5 Claims. (Cl. 2—19)



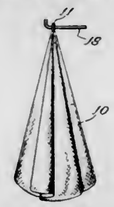
1. A baseball mitt or glove provided with a ball-receiving pocket that comprises a padded, curb-like portion built into the mitt at the heel end of the pocket and located on the underside of the piece of material that constitutes the front side of the mitt, said curb-like portion having a gap, space or joint intermediate its ends so as to impart greater flexibility to the mitt, and means for enabling the user to change the cross-sectional shape of at least one section of said curb-like portion so as to vary the shape, dimensions or location of the ball-receiving pocket.

2,288,468
SMALLWARE LOOM
Garford Lilley, John Raymond Lilley, and Eric Ronald Lilley, Derby, England
Application July 30, 1941, Serial No. 404,668
In Great Britain November 2, 1940
8 Claims. (Cl. 139—199)



1. A weft carrying device for a small ware loom comprising in combination a rear part, a front part, a holder for the two parts which engages in the shuttle track of the loom, means for locking the two parts together and to the holder and a spindle carried by the rear part to support the yarn package which spindle projects both forwardly and rearwardly of the holder when the device is in the loom.

2,288,469
PROTECTING COVER FOR AUTOMOBILE SEATS AND THE LIKE
Alex E. Lookholder, La Grange, Ill.
Application November 4, 1939, Serial No. 302,865
2 Claims. (Cl. 155—182)

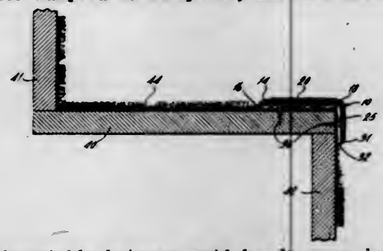


1. A protecting cover for automobile seats and the like comprising a piece of flexible material and means for identifying the surface to be exposed when the cover is in use and for hanging the cover on a hook when the cover is not in use, said means consisting of a handle on one surface of the cover, approximately midway between the edges of the cover, said handle consisting of an integral washer and stem, the stem being split between the washer and its free end and projecting from the exposed surface of the cover.

2,288,470
PROTECTIVE STAIR EDGING
Edward C. Lorraine, South Elmhurst, N. Y., assignor to O. W. Jackson & Co., Inc., New York, N. Y., a corporation of New York
Application November 15, 1940, Serial No. 365,746
2 Claims. (Cl. 20—79)

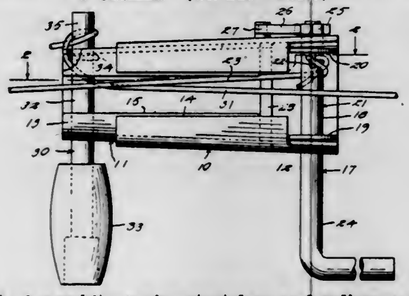
1. A protective safety edging adapted to overlie the carpet on only the forward part of the tread and the upper part of the riser of a completely carpeted stair comprising a one piece metal strip having a horizontal leg and a depending vertical leg disposed substantially at right angles to one

another, said strip having raised beads at the rear end of its horizontal leg and at the juncture of the legs, the opposing faces of said beads having their upper edges closer together than their lower edges and defining a channel between them, a flexible insert having a non-skid upper surface adapted to completely fill said channel



and insertable between said beads upon being slightly buckled, the faces of said beads gripping the insert to hold it in place, and a longitudinally extending projection on each of said legs adjacent its end so directed as to penetrate the pile of the carpet and firmly engage the carpet backing to prevent rocking of said edging.

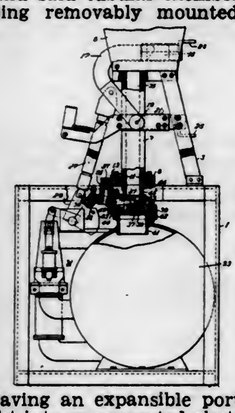
2,288,471
WIRE STRETCHER AND SPLICER
Albert D. Losee, Sumner, Nebr.
Application September 23, 1941, Serial No. 412,044
5 Claims. (Cl. 140—123.5)



1. A combined wire stretcher and splicer comprising a pair of telescopically arranged tubular members rotatable relative to each other and each having a longitudinal opening extending from end to end thereof, a winding means carried by one of said members adjacent an end thereof, and a second winding means carried by the other sleeve at the end thereof opposite from said first winding means, each winding means constituting a means for rotating one tubular member relative to the other to thereby twist a pair of oppositely extending wires about each other between said winding means.

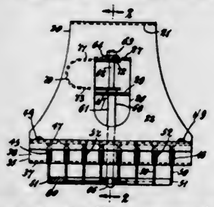
2,288,472
CIRCUIT INTERRUPTER
John B. MacNeill, Wilkinsburg, and Andrew H. Bakken, Edgewood, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 21, 1940, Serial No. 357,674
8 Claims. (Cl. 200—148)

1. In a gas blast circuit interrupter, a gas storage tank, separable contact means insulatingly mounted in fixed relation with respect to said tank, and means for conducting a blast of gas from said tank to the region of separation of said contact means, said gas conducting means including a tubular member of insulating material mounted in fixed relation with respect to said tank and a valve housing disposed between said tank and said tubular member, said valve housing being removably mounted upon said



tank and having an expansible portion adapted to be brought into unconnected abutting engagement with the end of said tubular member to seal the gas blast conducting means, said valve housing being removable without disturbing the fixed mounting relation of said contact means and said tubular member and said tank.

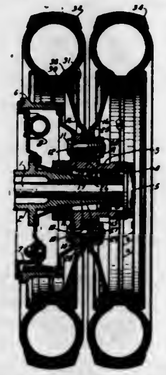
2,288,473
CHOPPER AND SLICER
George J. Mannfolk, New York, N. Y.
Application March 7, 1941, Serial No. 382,109
4 Claims. (Cl. 30—128)



1. A chopper and slicer comprising a handle, a spring supported in the handle, a supporting rod extending into the handle from its lower end and controlled by said spring, knives at the lower end of the handle with their blades extending therefrom and a guide and cleaning plate connected to said rod, said plate having guide openings for the blades of said knives.

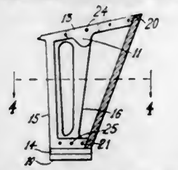
2,288,474
WHEEL STRUCTURE
John R. Manning, Santa Fe, N. Mex., assignor of one-fourth to Sue Winston and one-fourth to Martha Donaldson, both of Santa Fe, N. Mex.
Original application August 31, 1940, Serial No. 355,075. Divided and this application August 7, 1941, Serial No. 405,772
7 Claims. (Cl. 301—36)

1. In a wheel structure of the character described, a support, a hub rotatably mounted on said support and having a flange provided with spaced annularly arranged apertures, wheels mounted on said hub and having apertures alignable with the apertures in said hub, the portions of said wheels bounding said apertures being provided with annular recesses forming conical seats, a ring mounted between said wheels in load-supporting engagement with said hub and having apertures alignable with said wheel and hub apertures, annular bosses on the portions of said ring bounding said apertures therein, said



bosses having bevelled faces adapted to engage the adjacent conical seats of the annular recesses of said wheels upon said hub, whereby said ring supports said wheels upon the hub, and means connecting said hub, wheels, and ring together.

2,288,475
SHOE HEEL
Paul Mariani, New York, N. Y.
Application July 1, 1940, Serial No. 343,462
14 Claims. (Cl. 36—34)



1. A heel of the character described, comprising a C-shaped inner frame having a front wall and a sole plate and base plate rearwardly extending therefrom, and a shell having a substantially U-shaped section, encircling the sides and rear of said frame.

2,288,476
SIZE EMULSION AND METHOD OF PREPARING THE SAME
Robert T. Mashburn, Parchment, Mich., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 7, 1939, Serial No. 293,797
7 Claims. (Cl. 106—144)

1. The process which comprises passing an acidific gas into an aqueous dispersion comprising saponified rosin to partially decompose said saponified rosin and liberate free rosin of extremely fine particle size and in highly dispersed form, whereby there is formed an aqueous rosin sizing dispersion containing a high proportion of free rosin on the dry basis and being stable against flocking when diluted with hard water for a period of time greater than the normal time elapsed between adding the sizing dispersion to the paper pulp and the addition of a size precipitant.

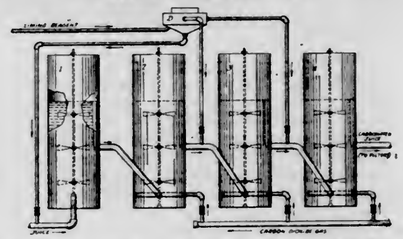
2,288,477
PRODUCTION OF ISOBUTANE
Charles W. Montgomery, Aspinwall, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application May 18, 1938, Serial No. 208,717
7 Claims. (Cl. 260—676)

1. A method of producing isobutane from normal butane without cracking, comprising contacting liquid normal butane with about 0.5 to 10 mol per cent of an aluminum halide catalyst at a temperature below the critical temperature of normal butane.

2,288,478
PHTHALOCYANINE SULPHONIC ACID CHLORIDE
Friedrich Nadler, Cologne-Mulheim, Otto Bayer, Leverkusen-I. G.-Werk, and Hans Hoyer, Frankfort-on-the-Main, Germany, assignors to General Aniline & Film Corporation, a corporation of Delaware
No Drawing. Original application May 24, 1938, Serial No. 209,720. Divided and this application August 8, 1940, Serial No. 351,906. In Germany June 8, 1939
3 Claims. (Cl. 260—314)

1. The process of preparing a phthalocyanine sulphonic acid chloride which comprises treating a phthalocyanine sulphonic acid above about 100° C. with chlorosulphonic acid for a period of time sufficient to produce the chloride.

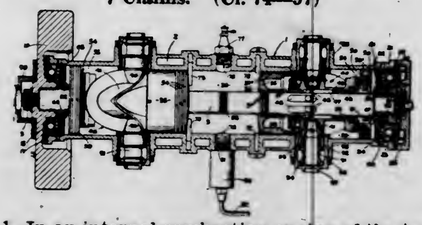
2,288,479
CARBONATION PROCESS FOR PURIFYING SUGAR JUICE
Alpheus R. Nees, Arthur N. Bennett, and Edwin H. Hungerford, Denver, Colo., assignors to The Great Western Sugar Company, Denver, Colo., a corporation of New Jersey
Application July 30, 1940, Serial No. 348,568
7 Claims. (Cl. 127—50)



1. A carbonation process for purifying beet sugar juice which comprises heating the juice, adding liming reagent thereto in an amount exceeding that required to saturate the juice with liming reagent, passing the so limed juice in a continuous stream through a predetermined path, introducing a plurality of continuous streams of liming reagent and carbon dioxide gas into the juice stream at spaced points in said path and thoroughly mixing said streams with the juice, controlling the introduction of said streams of liming reagent and carbon dioxide so that the juice in successive stages of lower alkalinity attains an end point of carbonation satisfactory for filtration, and controlling the volume of said carbon dioxide streams so that the juice possesses an alkalinity outside of its active foaming range at each of said stages, said active foaming range lying above said end point between a point slightly below the point of saturation with

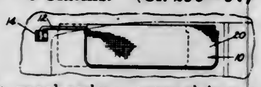
liming reagent and a point, depending on the quality of the juice, not exceeding about 0.20 gram CaO per 100 cc. of juice.

2,288,480
ENGINE OR THE LIKE
Vincent Palumbo, Cleveland, Ohio, assignor of one-fourth to John E. Bevington, Cleveland, Ohio
Application October 12, 1940, Serial No. 360,967
7 Claims. (Cl. 74—57)



1. In an internal combustion engine of the type wherein the engine shaft is disposed axially of the cylinder, and pistons are reciprocable in the cylinder in opposed relation to each other and surround the shaft; members surrounding and splined to the shaft and arranged with the pistons between them, each of said members being swiveled to the adjacent end of the near piston so that said member and piston reciprocate together but are capable of independent rotation, a housing enclosing the members, and interengaging means on the housing and members for effecting rotary motion therebetween during reciprocations of the members.

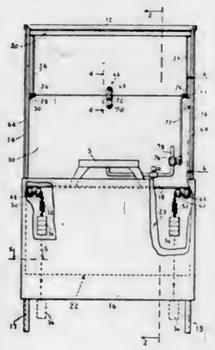
2,288,481
VISOR CONSTRUCTION
Walter J. Pelcher and Alton J. Diroff, Monroe, Mich., assignors to Woodall Industries Incorporated, Detroit, Mich., a corporation of Michigan
Application June 12, 1940, Serial No. 340,154
6 Claims. (Cl. 296—97)



1. Visor mechanism comprising a supporting rod, a visor panel provided with a mounting freely mounted upon the rod for rotatable and longitudinal adjustment with respect thereto, panel adjustment and retaining means having a resilient tubular portion embracing the rod for rotatable adjustment thereabout and grippingly engaging the rod to maintain said positions of adjustment, said adjustment and retaining means having a channel portion projecting outwardly from the tubular portion and having resilient side walls, said panel having a marginal portion received within said channel and being slidably longitudinally adjustable therethrough, the side walls of said channel portion resiliently grippingly engaging the marginal portion of the panel so as to maintain the panel at said positions of longitudinal adjustment.

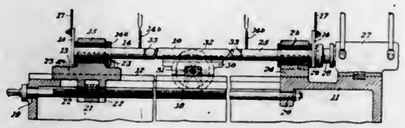
2,288,482
SAFETY STOVE-CABINET
Charles Plohberger, New York, N. Y.
Application April 1, 1940, Serial No. 327,182
9 Claims. (Cl. 126—37)

1. A safety cabinet of the character described having an opening for access to the interior of the cabinet, closure means for said opening mounted in the cabinet for movement from retracted position to projected position for covering said opening, said closure means comprising upper and lower members spaced from each other in said retracted position and movable toward each other for covering said opening, said upper member having a pivotal movement and disposed in its retracted position so that said



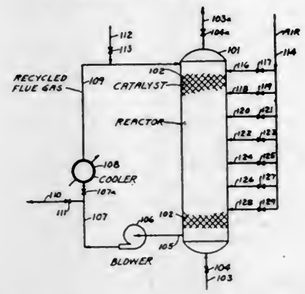
opening extends through the top of the cabinet, said lower member being mounted for sliding movement and disposed in its retracted position below said opening, said upper and lower members being movable toward each other to close said opening, means operatively connected to said upper and lower members for causing them to move to cover said opening, and temperature-responsive means for releasably preventing movement of said members to cover said opening.

2,288,483
METHOD AND APPARATUS FOR HEATING METAL PIPE OR THE LIKE
Henry A. H. Pray, Columbus, Ohio, assignor, by mesne assignments, to The Youngstown Sheet and Tube Company, Youngstown, Ohio, a corporation of Ohio
Application October 23, 1940, Serial No. 362,368
5 Claims. (Cl. 219—11)



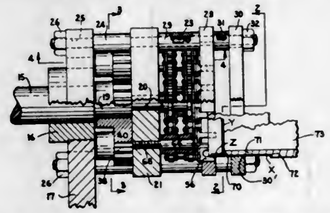
1. In a method of heating elongated metal articles to a substantially uniform temperature throughout the entire length thereof, the steps including disposing an article between and in endwise, electrically-conducting abutment with terminals having a shape, cross-sectional area, and resistance-heating characteristics substantially identical to those of the article, and passing electric current through the terminals and the article in series in the absence of artificial cooling, whereby to heat the terminals to substantially the same temperature as said article, while exerting sufficient contact pressure at the joints between the terminals and the article to prevent them from being heated to a temperature materially higher than the temperature of said article.

2,288,484
REGENERATION OF CATALYSTS BY COMBUSTION
John S. Rearick, Westfield, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application October 31, 1940, Serial No. 363,748
3 Claims. (Cl. 252—242)



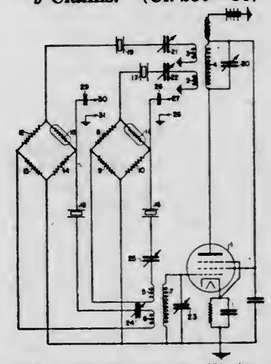
3. In a method of removing carbonaceous contaminants from a relatively elongated body of solid catalytic material by combustion of said contaminants in an oxygen-containing gas, the improvement which comprises continuously passing an inert gas lengthwise through said body of catalytic material, initially introducing an oxygen-containing gas into said body at a point near the end of said body toward which said inert gas is travelling, passing said oxygen-containing gas through that portion of said body lying between said point and said end to effect combustion of contaminants and regenerate said portion, discontinuing the introduction of said oxygen-containing gas at said first point and recommencing it at a second point more distant from said end than said first point, passing said oxygen-containing gas through that portion of said body lying between said second point and said end to effect combustion of contaminants located between said first and second points and to regenerate catalyst lying between said points, and continuing in like manner to regenerate successive portions of said body of catalyst.

2,288,485
SPINNING DEVICE FOR SQUARE CONTAINER END CLOSURE SEAMS
Granville S. Rider, New York, N. Y., assignor to Reinforced Paper Bottle Corporation, New York, N. Y., a corporation of New York
Application August 19, 1939, Serial No. 290,953
9 Claims. (Cl. 93—36.5)



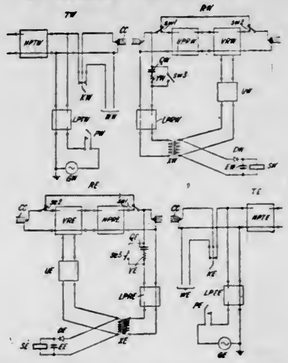
1. In a machine for curling an end of a square container shell, a spinner device comprising a non-rotatable head, a plurality of chain connected spinner elements mounted to move circuitously therein, means to drive said elements, and means to guide said shell into the zone of operation of said elements.

2,288,486
MULTIPLE-FREQUENCY OSCILLATOR
Ronald Samuel Rivlin, Wembley, England, assignor to Hazeltine Corporation, a corporation of Delaware
Application March 22, 1941, Serial No. 384,643
In Great Britain April 1, 1940
9 Claims. (Cl. 250—36)



1. A multiple-frequency oscillator comprising, a vacuum-tube repeater having input and output circuits broadly responsive to a band of frequencies, said repeater having an operating characteristic including linear and nonlinear portions, means for biasing said repeater normally to operate on said linear portion of its characteristic, a plurality of effectively isolated coupling circuits each individually sharply responsive to a predetermined different frequency in said band of frequencies for feeding back oscillations of said predetermined frequencies from said output circuit to said input circuit, means for limiting the sum of the amplitudes of said feed-back oscillations applied to said input circuit to a value below that which causes said repeater to operate on said nonlinear portion of its characteristic, and a load circuit individually associated with each of said coupling circuits.

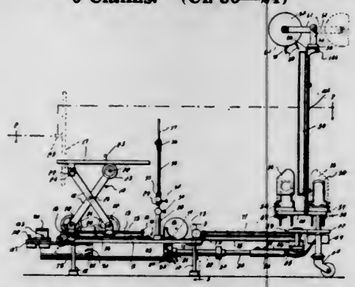
2,288,487
ELECTRIC COMMUNICATION SYSTEM
Abel Rosen, London, England, assignor to Siemens Brothers & Co., Limited, Westminster, London, England, a British company
Application April 7, 1941, Serial No. 387,223
In Great Britain June 15, 1939
9 Claims. (Cl. 178—63)



1. An electric communication system comprising a transmission circuit, a repeater situated at

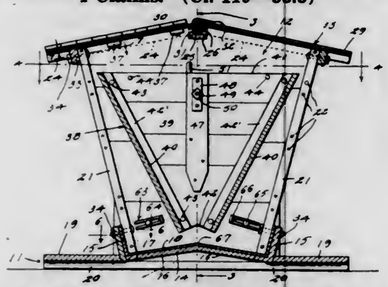
an intermediate point along said transmission circuit, said repeater comprising thermionic valve equipment, a source of electric current at one terminal end of said transmission circuit for the operation of said repeater over said transmission circuit, terminal means at each end of said transmission circuit for the communication currents, and means associated with and at said repeater responsive to the operating current for said repeater and operating automatically on the connection of said source to said terminal end for switching said repeater into said transmission circuit.

2,288,488
APPARATUS FOR PHOTOGRAPHING TITLES ON MOTION PICTURE FILMS
Michael Ruiz, Chicago, Ill.
Application January 2, 1941, Serial No. 372,903
6 Claims. (Cl. 88—24)



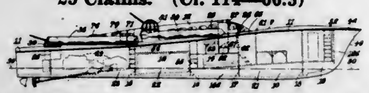
1. A device of the class described comprising a base, a support having a platform at its top provided with means for detachably mounting a camera thereon, said support being slidably connected to the base and constructed so that sliding movement thereof will raise or lower the support in substantially a vertical plane, a wheeled frame, means for connecting the frame and base whereby the frame may be moved toward and away from the base, an easel supported by the frame for mounting a subject to be photographed by the camera, an auxiliary focusing lens adjustably mounted between the support and easel and arranged for movement horizontally and vertically, and illuminating means associated with the easel for flooding the subject to be photographed.

2,288,489
SELF-FEEDER FOR LIVESTOCK
William H. Schmeling, Edgerton, Wis.
Application June 4, 1941, Serial No. 396,631
4 Claims. (Cl. 119—53.5)



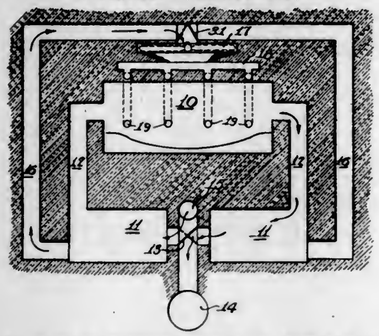
2. A self-feeder for livestock comprising a hopper frame including a floor having a longitudinally extending trough intermediate of its side edges, said frame including upstanding end walls, a hopper mounted between said end walls and above said trough, said hopper having an enlarged open upper end and a restricted open lower end, rods projecting from the ends of said hopper and adjacent its top, hangers mounted on the inner sides of said end walls and supported thereby, hooks carried by said hangers for engaging said rods for pivotally mounting the hopper above the trough, and adjustable means on said hangers for adjustment of said hooks relatively to the hangers for raising and lowering the hopper relatively to the trough.

2,288,490
HIGH-SPEED MOTORBOAT
Hubert Scott-Paine, Hythe, Southampton, England
Application April 6, 1940, Serial No. 328,171
In Great Britain March 25, 1939
25 Claims. (Cl. 114—66.5)



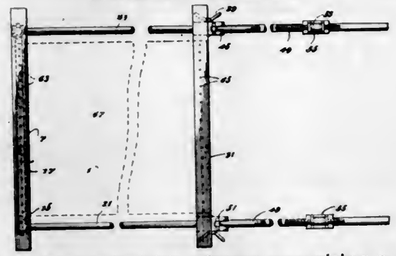
1. A sea-going boat hull of the hard chine type, capable of high-speed planing operation and having displacement characteristics of moderate resistance at low speeds, having the following characteristics which in combination contribute to improved longitudinal and lateral stability, improved seaworthiness, improved manoeuverability, reduction of wetted surface and high speeds: a length-beam ratio substantially between 3.5 and 4.5, the section of maximum beam being forward of amidships, bottom-sides which in the forebody are concave in transverse cross-section, the angles of deadrise of said bottom-sides decreasing from the bow substantially throughout the length of the hull and being large at the fore part of the hull and small at the transom, top-sides flaring outwardly from the chines at the fore part of the hull, the chines in longitudinal elevation being substantially straight but with a gradual rise from the stern throughout about ⅔ of the over-all length of the hull.

2,288,491
OPEN HEARTH FURNACE
Gilbert E. Sell, Cynwyd, Pa.
Application December 14, 1940, Serial No. 370,203
2 Claims. (Cl. 263—15)



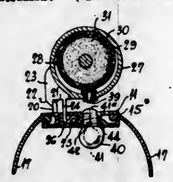
1. In a regenerative furnace, a furnace chamber, a pair of regenerators communicating therewith, a plurality of continuously operating burners directed through opposed walls of the furnace chamber and against a charge contained therein, the burners of each wall being staggered with relation to those of the opposite wall, a manifold to supply air to said burners, a stack, means to alternately connect said regenerators to said stack, and means to selectively and alternately connect said regenerators to said manifold.

2,288,492
STRETCHER
Albert D. Silvernail, Utica, N. Y.
Application September 20, 1940, Serial No. 357,657
2 Claims. (Cl. 45—24)



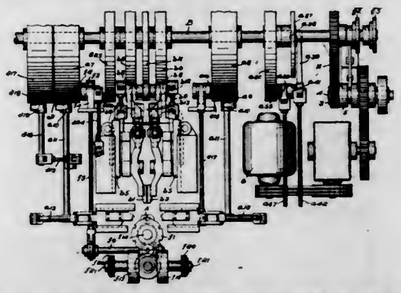
1. A fabric stretching frame comprising a stationary fabric supporting beam having legs secured adjacent each end thereof, a pair of parallel side frame members connected at their ends to said legs, a movable fabric engaging beam slidably mounted on said parallel side frame members, legs on said movable fabric engaging beam, cross heads slidable on the parallel frame members, means for securing said cross heads in different positions on said frame members, a screw rod threaded in each cross head and pivotally secured to said movable beam, and a clamp on each leg of the movable beam for locking the movable beam to the side frame members.

2,288,493
ILLUMINATION MEANS FOR HANDBAGS AND THE LIKE
William A. Smith, Charlotte, N. C.
Application July 19, 1941, Serial No. 403,144
3 Claims. (Cl. 240—6.45)



1. A handbag having a frame comprising first and second substantially U-shaped frame members pivoted to each other at their free ends and being adapted to be swung apart to form an opening in the handbag, a metallic casing pivotally secured to the first frame member and having latching means for engaging the second frame for holding the handbag in closed position, the first frame having a contact point on the exterior thereof, a light bulb mounted on the inside of the handbag and being electrically connected to the contact point, a battery within the casing, a contact on the exterior of the casing and being connected to one side of the battery and also insulated from the metallic casing, the other side of the battery being connected to the casing, whereby when the handbag is opened and the casing is swung on its pivot the contact on the casing will engage the contact on the first frame and illuminate the bulb.

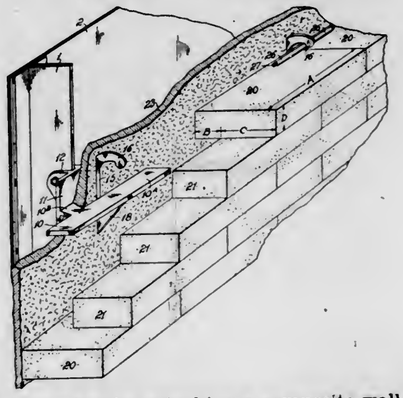
2,288,494
CHAIN WELDING
Francis H. Speed, Lynnfield, and John S. Pike, Lynn, Mass., assignors to Thomson-Gibb Electric Welding Company, Lynn, Mass., a corporation of Massachusetts
Application August 1, 1941, Serial No. 405,056
19 Claims. (Cl. 219—5)



1. Apparatus for welding the links of a load chain comprising nesting dies for applying pressure to a link to bring the open ends of the link into firm engagement, a spring for applying additional pressure to said dies at a predetermined point in the cycle of said apparatus, a trip device for taking the thrust of said spring during other portions of the cycle of said apparatus, and power transmitting connections for cyclically operating said trip device to load and trip said spring.

3. In apparatus for welding the links of a load chain having swaging dies reciprocable towards and away from a link positioned in welding position along paths directionally transverse to the axis of said positioned link, a cutter mounted for movement through a path substantially transverse to said swaging die paths for severing portions of a burr formed on said link, and means for cyclically operating said cutter along said path.

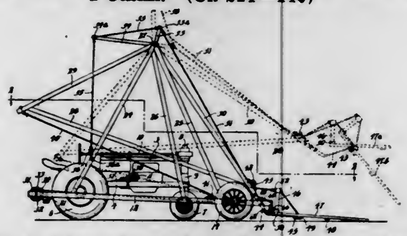
2,288,495
WALL SUPPORT
Frederick W. Stone, Chagrin Falls, Ohio
Application February 12, 1940, Serial No. 318,415
6 Claims. (Cl. 72—101)



1. A bracket for attaching a composite wall to a buckstay, said bracket comprising a member adapted to engage a buckstay, a shelf adapted to receive a projecting end of a brick, a hook overlying said shelf, and a cam adapted to bear

directly upon said projecting end and thereby clamp said projecting end between said shelf and said hook.

2,288,496
POWER HAY STACKER
Fred Swedberg, Graceville, Minn.
Application August 4, 1940, Serial No. 351,410
1 Claim. (Cl. 214—140)



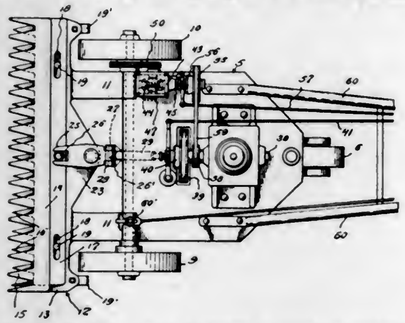
In a hay rake and stacker, a main frame having an abutment member at its front end, a rake unit comprising a cross frame portion mounted for movement relative to said main frame abutment member, tines extending forwardly from said cross frame portion, teeth pivotally mounted on said tines and swingable upwardly from said tines or downwardly substantially flush therewith, tooth operating means connected to said teeth and adapted to contact said main frame abutment in one position of said movable cross frame member, said tooth operating means including means for swinging said teeth upon movement of said rake cross frame relative to said main frame abutment.

2,288,497
CONCENTRATION OF POTASH ORES
Francis X. Tartaron, Allen T. Cole, and James B. Duke, Mulberry, Fla., assignors to Phosphate Recovery Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application June 18, 1941, Serial No. 398,570
16 Claims. (Cl. 209—49)

1. The improvement in the method of concentrating sylvite from a sylvinite ore in a pulp formed with a saturated aqueous solution of the soluble ore constituents and conditioned with a collector selected from the group consisting of the aliphatic amines containing a straight chain alkyl group having from 8 to 18 carbon atoms and their salts with water-soluble acids, which resides in distributing in said pulp a useful amount of an auxiliary agent consisting of the liberated contents of starch grains, and thereafter subjecting the pulp to separation treatment to remove the desired sylvite.

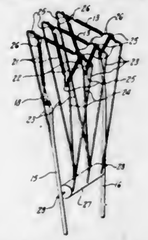
2,288,498
MOWER
George M. Underwood, Watertown, S. Dak.
Application November 6, 1941, Serial No. 418,069
2 Claims. (Cl. 56—26)

1. In a mower, a horizontally arranged bed plate, an axle arranged transversely of and at the forward edge of the bed plate, said bed plate having the forward portion thereof rolled to provide a bearing receiving the axle and cut away to expose portions of the axle inwardly of side edges of the bed plate, ground wheels journaled on the axle outwardly of the side edges of the plate, substantially L-shaped arms journaled on the exposed portions of the axle for free upward and downward movement forwardly of the axle and bed plate, a cutter mechanism carried by the arms to ride the ground, a power means mounted



on the bed plate, and a drive means connecting said power means to the cutter mechanism and one of the ground wheels.

2,288,499
ELECTRIC LAMP
Irving H. Van Horn, East Cleveland, Ohio, assignor to General Electric Company, a corporation of New York
Application November 2, 1940, Serial No. 364,043
5 Claims. (Cl. 176—40)

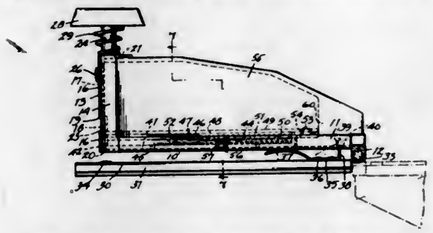


1. An electric incandescent lamp comprising a bulb, a pair of leading-in wires extending into said bulb and supporting therebetween an insulating bridge member, a filament mounted within said bulb between said leading-in wires and electrically connected thereto, said filament comprising a continuous wire divided into a plurality of coiled portions, successive coiled portions being triangularly arranged so as to form a series of side-by-side triangles each open at corresponding corners, and a plurality of support wires extending from said bridge member and supporting said filament at the corners of said triangles.

2,288,500
STAPLING DEVICE
Kurt M. Vogel, Bridgeport, Conn.
Application September 18, 1940, Serial No. 357,222
10 Claims. (Cl. 1—3)

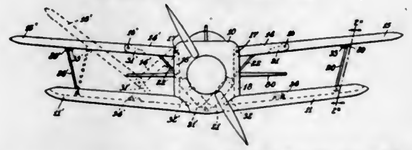
1. In a stapling machine including a frame member and staple driving means at one end of said frame member having a staple driving passage, a staple magazine carried by said frame member comprising an elongated receptacle having side walls and an open upper side extending to said staple driving passage, a cover member slidably engaged with said side walls of said receptacle adapted in the closed position to extend to said staple driving passage to constitute a limit abutment to prevent upward displacement

of the staples in said receptacle and in the open position to expose the interior of said receptacle for insertion of staples therein, a staple pusher member disposed in said receptacle, a spring disposed in said receptacle and normally pressing



said pusher member forwardly against the staples therein, and connection means between said pusher member and said cover member whereby upon rearward opening movement of said cover member said pusher member is retracted against the force of said spring.

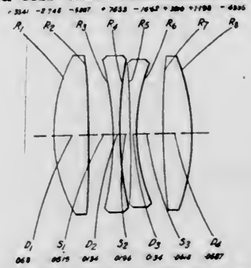
2,288,501
AIRPLANE
Byron T. Wall, Raymond, Alberta, Canada, assignor of one-half to Hamilton Hagar, Larchmont, N. Y.
Application October 9, 1940, Serial No. 360,373
In Canada October 10, 1939
8 Claims. (Cl. 244—49)



8. An airplane comprising a fuselage and upper and lower wings thereon, the upper wing structure on each side of the fuselage comprising an inner section hinged to the fuselage longitudinally thereof and an outer section hinged to said inner section, the outer section comprising the major portion of said wing structure and being movable on said hinges into and out of engagement with the corresponding lower wing, and mechanism for moving said upper wing structure into and out of operative position.

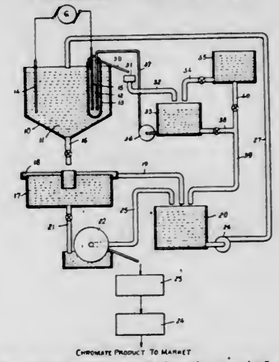
2,288,502
OPTICAL OBJECTIVE
Arthur Warmisham, Leicester, England, assignor to Taylor, Taylor & Hobson Limited, Leicester, England, a company of Great Britain
Application December 6, 1940, Serial No. 368,918
In Great Britain December 8, 1939
6 Claims. (Cl. 88—57)

1. An optical objective corrected for spherical and chromatic aberrations, astigmatism, coma, distortion and curvature of field and comprising four axially aligned and asymmetrically arranged components separated by air spaces and each consisting of a simple element, the two outer components being convergent and the two inner divergent, wherein the radius of curvature of the front surface of the rear divergent component is at least five times that of the rear surface of such component and the radius of curvature of the front surface of the front divergent component lies between 70% and 90% of that of the rear surface of such component, whilst the middle air space is less than either of the two outer air spaces and less than one third of the sum of



such outer air spaces, neither of which exceeds .09 of the equivalent focal length of the objective.

2,288,503
ELECTROLYTIC BASIC METAL CHROMATE PIGMENT MANUFACTURE
Elbert Franklin Weaver, Calumet City, Ill., assignor to International Smelting and Refining Company, a corporation of Montana
Application November 2, 1940, Serial No. 364,069
7 Claims. (Cl. 204—89)

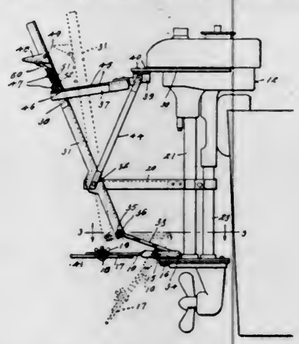


1. In the production of basic metal chromates involving the passage of an electric current from a soluble anode of the metal through an anolyte comprising a substance capable of serving upon electrolysis as a solvent for the metal, through a diaphragm, and through a catholyte containing chromate ions to a cathode, the method of controlling the composition and physical properties such as color of the metal chromate produced in the cell which comprises adding chromate ions to the catholyte as a source of chromate ions entering into the basic metal chromate, and adding chromate ions to the anolyte in such manner as to establish and maintain a ratio of concentration of hydroxyl ions to concentration of chromate ions in the anolyte corresponding to the composition of the desired chromate product while maintaining the anolyte at a substantially constant pH above about 8.5.

2,288,504
LEVER CONTROLLED TROLLING PLATE FOR OUTBOARD MOTORS
Charles Weber, Outlook, Wash., assignor of one-half to Otto Wellner, Outlook, Wash.
Application June 30, 1941, Serial No. 400,514
2 Claims. (Cl. 115—17)

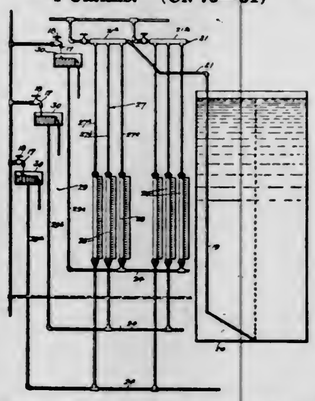
2. A device for controlling the speed of a motor boat having an outboard motor provided with

a driven propeller, an exhaust pipe, a propeller shaft inclosing tube, and an anti-cavitation plate, said device comprising a trolling plate, means for pivotally securing the trolling plate to the anti-cavitation plate at an angle to the propeller in rear of the propeller, an arm projecting rearwardly from the exhaust pipe and propeller shaft inclosing tube, a lever pivoted intermediate its



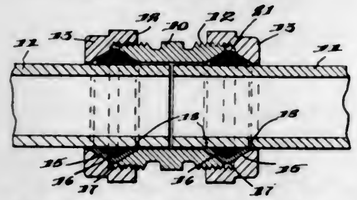
ends to the outer end of the arm and pivotally connected at its lower end to said means for rocking the plate to various angular adjusted positions, a ratchet bar projecting rearwardly from the outboard motor, and a spring pressed latch carried by the lever engaging the ratchet bar to hold the trolling plate in its adjusted positions.

2,288,505
MANOMETER
Rolf T. Wetteland, Elkins Park, Pa.
Application May 21, 1941, Serial No. 394,535
4 Claims. (Cl. 73—31)



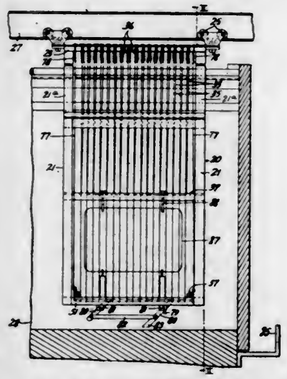
2. In a manometer, a U-tube one leg of which comprises a series of tubes each including a transparent reading section, said reading sections being disposed in side-to-side relation, the portions of each tube beneath the reading section thereof extending below such reading section through a distance equal to the combined lengths of the reading sections of the succeeding tubes of the series the other leg comprising a tube for each of the first-named tubes, the lower ends of corresponding tubes of said legs being connected, means to maintain a fixed liquid level in each of the last-named tubes, the fixed liquid levels of the last-named tubes differing in each tube by a distance approximating the height of the transparent reading sections of the first-named tubes, and a common source of pressure connected to the upper ends of the first-named tubes.

2,288,506
WATERTIGHT THREADLESS CONNECTOR
Walter O. White, Salina, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York
Application August 30, 1940, Serial No. 354,861
1 Claim. (Cl. 285—166)



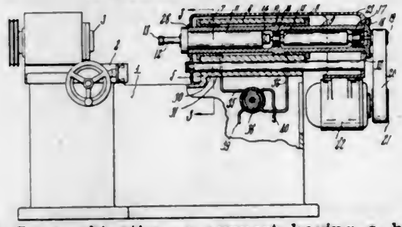
A water tight threadless connector for conduits and the like comprising a body formed with an aperture to receive the end of the conduit, a nut threading on the body and being formed with a conduit receiving bore, a metallic split contractile ring arranged within the nut, said ring being V shaped in cross section with the edges of the ring engaging the periphery of the conduit upon contraction of the ring, an annular packing member formed of rubber arranged within said ring and having a cross sectional form complemental to said ring and being formed with a radially extending projection arranged between the ends of said contractile ring, and said nut being cooperable with the body to contract said ring and annular member on the conduit.

2,288,507
GLASS BENDING FRAME
Leroy S. Whitmire and Chester A. Juncker, Crystal City, Mo., assignors to Pittsburgh Plate Glass Company, a corporation of Pennsylvania
Application July 27, 1940, Serial No. 347,970
8 Claims. (Cl. 49—45)



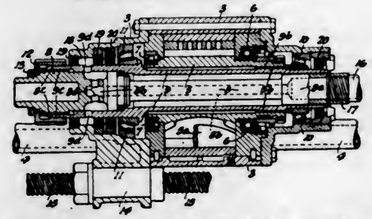
1. In a frame for supporting sheet glass and including wires suspended in a pair of rows from the upper portion of the frame for embracing the glass on its opposite sides, members supporting the lower end of the wires, and means for actuating one row of wires away from the other row to release the glass from contact therewith.

2,288,508
GRINDING WHEEL MOUNTING AND CONTROL
Merton H. Arms and Joseph B. Johnson, Springfield, Vt., assignors to Bryant Chucking Grinder Company, Sprinfield, Vt., a corporation of Vermont
Application April 23, 1940, Serial No. 331,070
8 Claims. (Cl. 51—50)



1. In combination, a support having a bore extending therethrough, a member slidable axially within said bore, a rotary tool shaft journaled within said member, means for preventing relative axial motion between said member and shaft, means for rotating said shaft, means for traversing said shaft and member as a unit, and a hood carried by said member and covering said support.

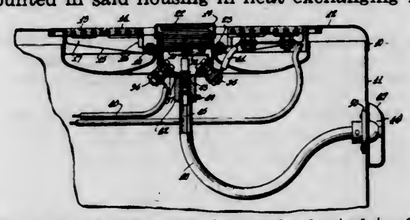
2,288,509
ROCK AND LIKE DRILL
John Arthur, Camborne, England
Application November 17, 1939, Serial No. 304,897
In Great Britain April 26, 1939
4 Claims. (Cl. 255—47)



1. A rock or like drill embodying therein a motor having a hollow rotor, a hollow sleeve within and connected with said rotor, a drill shaft extending axially through said sleeve, a drill rod carried by one end of said shaft, connections between said sleeve and said shaft for imparting rotary movement by said sleeve to said shaft, and permitting axial movement of said shaft in relation to said sleeve, a member mounted upon said shaft adjacent the end thereof and engaging said shaft to prevent an axial thrust of said shaft rearwardly of the drill, and co-operating means upon said sleeve and said member whereby said member may be detachably connected with the rear end of said sleeve and, by disengagement of said member from said sleeve, said shaft may be withdrawn axially from said sleeve and the connections between said shaft and said sleeve may be made inoperative.

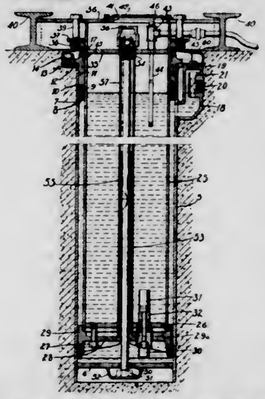
2,288,510
TEMPERATURE CONTROL
Herbert E. Brannon, Detroit, Mich.
Application May 11, 1940, Serial No. 334,501
3 Claims. (Cl. 219—37)

1. In an electric range comprising a surface heating element having a central opening therein, a unitary thermostatic temperature control for said heating element mounted in said opening, said temperature control comprising a housing having a lower tubular portion fixedly connected to said range and an upper portion telescopically engaging said lower portion for limited vertical movement relative thereto, a spring in said housing tending to separate said portions, a laminated temperature responsive element mounted in said housing in heat exchanging re-



lation to said upper portion and adapted to flex under the influence of variations in the temperature thereof, a contact on said laminated element movable therewith, a second contact mounted on said housing for movement relative thereto and to said first contact, and screw threaded means in a wall of said housing for adjusting the position of said second contact, said temperature control being adapted to be mounted as a complete unit in the opening in said surface heating element.

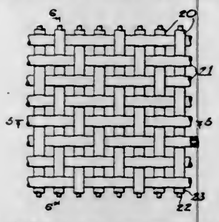
2,288,511
AUTOMOBILE LIFT
Otto J. Bratz, Adrian, Mich., and Wallace W. Berchtold, York, Pa., assignors to American Chain & Cable Company, Inc., Bridgeport, Conn., a corporation of New York
Application February 7, 1938, Serial No. 189,046
2 Claims. (Cl. 121—46)



1. The combination in a lift construction of a main cylinder having a lower end wall, a cooperating piston comprising concentrically arranged hollow cylinders and upper and lower end walls connected to said concentric cylinders providing a fluid tight space between said concentric cylinders, the upper end of the inner of said concentric cylinders being connected to the upper end wall of said concentric cylinders in a manner to make its interior accessible from the exterior of the piston, means limiting the upward movement of said piston and comprising concentric members the inner of which is anchored to the lower end wall of the main cylinder and the outer

of which is supported by the lower end wall of the piston, said outer member comprising a cylinder of less length than said inner member, and a detachable member on the upper end of said inner member forming an abutment for said outer member as said piston is raised and having a manipulative portion located beyond the upper end of the piston and the inner concentric cylinder.

2,288,512
MULTIPLE STRAND FOURDRINIER WIRE
William E. Buchanan, Appleton, Wis., assignor to Appleton Wire Works, Inc., Appleton, Wis., a corporation of Wisconsin
Application June 5, 1939, Serial No. 277,483
4 Claims. (Cl. 139—425)

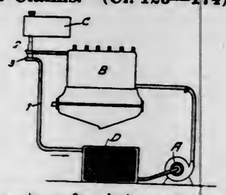


1. A wire fabric for paper-making machines, comprising interwoven warp and weft wires, at least some of said wires each comprising a core of relatively soft metal and a surrounding casing of harder metal.

2,288,513
ALLOY
Louis Henri François Canac and Emile Auguste Marie Antoine Segol, Toulon, France
No Drawing. Application June 19, 1939, Serial No. 279,992
In France July 11, 1936
4 Claims. (Cl. 75—147)

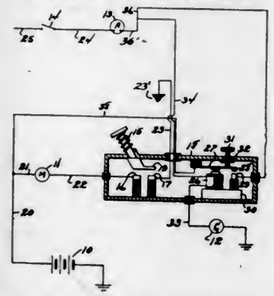
3. A corrosion resistive alloy having a surface formed of a multitude of galvanic couples which surface when subjected to corrosive influences is capable of forming a self-protective, cicatrizing, film, said alloy consisting of magnesium in an amount ranging from 10 to 50%, zirconium in an amount ranging from .05 to 2%, and the balance being aluminum, said alloy containing less than 0.1% of impurities, all metals being considered as impurities which are not easily oxidized, are less precious than aluminum or magnesium and which are incapable of forming a eutectic with aluminum or magnesium.

2,288,514
COOLING SYSTEM FOR INTERNAL COMBUSTION ENGINES
Helmut Caroselli, Berlin-Adlershof, Germany
Application December 16, 1939, Serial No. 309,683
In Germany December 22, 1938
10 Claims. (Cl. 123—174)
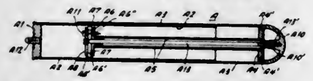


1. Cooling system for internal combustion engines particularly for motors in airplanes in which the cooling is effected by liquid means comprising in combination: a main system consisting substantially of a pump for the liquid, a cooling jacket for the engine, a radiator and pipe lines connecting said pump, jacket and radiator, an auxiliary system consisting substantially of a storage tank and supply and discharge pipe lines connected to said storage tank and means connecting said supply and discharge pipe lines to said main system for maintaining in said main system a higher pressure than in the auxiliary system, said means comprising a cylindrical vortex vessel having tangential connections to the main system and a connection to said supply pipe at a point of reduced pressure in the vortex vessel.

2,288,515
IGNITION SYSTEM
Richard J. Courcier, Sr., New Orleans, La.
Application June 10, 1940, Serial No. 339,786
1 Claim. (Cl. 290—37)



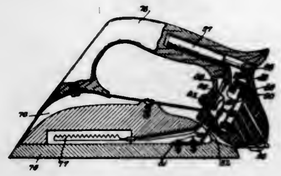
In an ignition system, an engine starting electric motor, a generator, a storage battery, an ignition circuit, a starting switch in said circuit connected with the motor and normally disposed in open circuit position, an electromagnet energized by the generator and connected to the ignition circuit, a resilient armature for the electromagnet forming a conductor and having a contact, an insulated fixed contact coacting with the armature contact, and connected to the ignition circuit and to the battery and forming a charge circuit for the battery, and a set screw adapted to engage the armature and move said contacts to circuit closing position to convert the charge circuit into an ignition circuit supplied by the battery when the generator is not running and the starting switch is in open position.

2,288,516
INDUCTANCE
Norman Eustace Davis, Frederick Gawn Robb, and Henry James Craymer, Chelmsford, England, assignors to Radio Corporation of America, a corporation of Delaware
Application June 22, 1939, Serial No. 280,468
In Great Britain July 29, 1938
6 Claims. (Cl. 178—44)



1. An adjustable inductance element comprising a plurality of metallic tubes adapted to telescope into one another, an expansible member located inside the innermost tube, and means manually operable externally of the telescoping tubes for expanding said expansible member to abut against the inside of said innermost tube thereby to cause the tubes to bind against one another and prevent telescoping action.

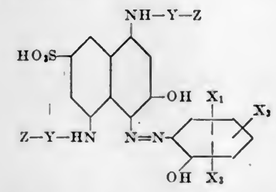
2,288,517
THERMOSTATIC SWITCH
William Dubilier, New York, N. Y.
Application February 3, 1939, Serial No. 254,337
5 Claims. (Cl. 219—25)



1. The combination with an electric flat iron having a metal base, a heating element therefor and a handle attached to said base, of a displaceable switch element in circuit with said heating element and mounted within said handle at a point remote from said base, a thermostatic unit having one end engaging said base and another end projecting into said handle, and an electrical contact cooperating with the displaceable part of said switch element for opening the electric circuit for said heating element when said switch element is displaced, the projecting end of said thermostatic unit being arranged to coact with said switch element to cause a displacement thereof when a predetermined temperature condition occurs in said metal base to open the electrical circuit of said heating element.

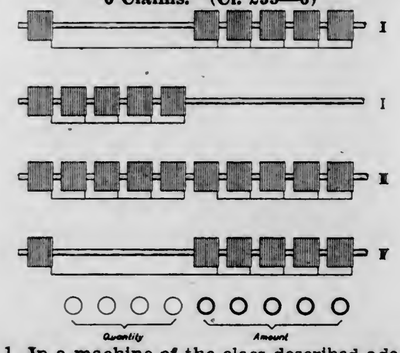
2,288,518
AZO DYESTUFFS CAPABLE OF BEING METALLIZED
Richard Fleischhauer and Adolf Müller, Frankfort-on-the-Main-Fechenheim, Germany, assignors to General Aniline & Film Corporation, a corporation of Delaware
No Drawing. Application May 17, 1939, Serial No. 274,108. In Germany May 21, 1938
4 Claims. (Cl. 260—199)

1. The azo-dyestuffs corresponding with the following general formula:



wherein X_1 stands for a member of the group consisting of hydrogen, halogen, nitro and the sulfonic acid group, X_2 for a member of the group consisting of hydrogen, alkyl and halogen, and X_3 for a member of the group consisting of hydrogen and halogen, the Y's stand for a member of the group consisting of CO and SO_2 and the Z's for a member of the group consisting of alkyl, O-alkyl and aryl of the benzene series, yielding on wool, when after-chromed, gray to greenish-gray dyeings of good fastness properties, especially of good fastness to light.

2,288,519
CASH REGISTER, ACCOUNTING, AND THE LIKE MACHINE
Helmut Geller, Berlin-Charlottenburg, Germany, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application July 26, 1937, Serial No. 155,594
In Germany September 25, 1936
6 Claims. (Cl. 235—6)

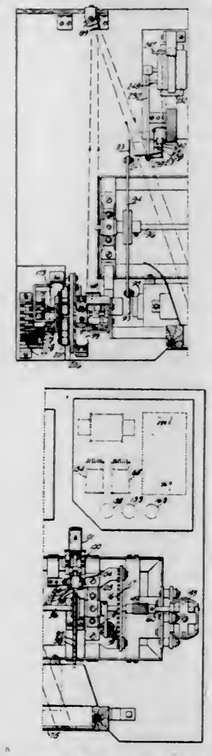


1. In a machine of the class described adapted to enter amounts of diverse kinds into separate totalizers during the same machine operation, the combination of a plurality of totalizers; a plurality of groups of differentially settable members each group representing a kind of amount and the individual members thereof representing denominations; means for individually mounting the totalizers so that a totalizer representing a kind of amount will be cooperable with the group of differentially settable members representing the same kind of amount and said mounting allowing the selective separate cooperation of any of the totalizers with its associated group of differentially settable members; means to control the differentially settable members to enter selected amounts into selected totalizers; an overflow wheel for each totalizer; the differentially settable members also cooperating with the totalizers to withdraw amounts selectively from their related totalizers; and a single differentially settable member common to all the totalizers for withdrawing an amount from that overflow wheel associated with the selected totalizer from which an amount is to be withdrawn by the differentially settable members.

2,288,520
CASH REGISTER
Helmut Geller, Berlin-Charlottenburg, and Hans Driescher, Berlin-Spandau, Germany, assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application August 11, 1939, Serial No. 289,662
In Germany August 17, 1938
27 Claims. (Cl. 235—3)

3. In a machine of the class described, the combination of a totalizer having denominational order means for representing amounts; units, tens, and hundreds denominational order control means differentially positioned under control of corresponding denominational order means of the totalizer according to the various digits of a multi-digit amount represented thereby; a plate having thereon data arranged in columns and lines; electrically operated means controlled by the units order differentially positioned control means for selecting a column of data; electrically operated means controlled by the hundreds order differentially positioned control means for selecting a group of lines of data from the selected column; electrically operated means con-

trolled by the tens order differentially positioned control means for selecting a line of data from



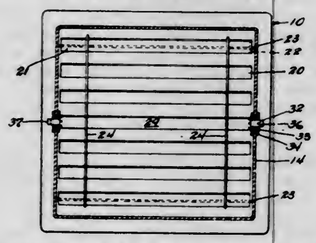
the selected group of lines; and means for rendering the selected line of data visible.

2,288,521

HOLLOW GLASS BLOCK

John J. Gregory, New Kensington, Pa., assignor to Pittsburgh Corning Corporation, Allegheny County, Pa., a corporation of Pennsylvania

Application January 27, 1940, Serial No. 315,956
7 Claims. (Cl. 72—41)



1. A hollow glass building block having opposed faces, perimetric side walls integral with the faces and with the faces providing a closed chamber, a louver system in the chamber and comprising spaced parallel louver bars, one of said bars being secured to a rotatable shaft projecting longitudinally thereof through an opening in one of said side walls, the remainder of the bars being free to rotate about their individual longitudinal axis, means interconnecting the bars for simultaneous rotation upon rotation of the shaft and means to prevent the system from rocking about the shaft as an axis.

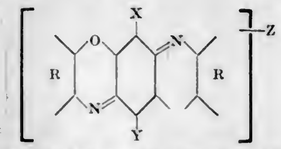
2,288,522

DYESTUFFS OF THE DIOXAZINE SERIES AND PROCESS OF PREPARING THEM

Heinrich Greune and Max Thiele, Frankfort-on-the-Main, Gerhard Langbein, Hofheim in Taunus, and Fritz Maennchen, Frankfort-on-the-Main, Germany, assignors to General Aniline & Film Corporation, a corporation of Delaware

No Drawing. Application October 25, 1939, Serial No. 301,156. In Germany October 28, 1938
6 Claims. (Cl. 260—246)

1. The dyestuffs of the following general formula:



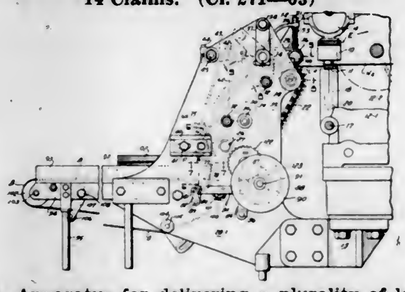
wherein X stands for a member of the group consisting of hydrogen, halogen and methyl, Y for a member of the group consisting of hydrogen and halogen, R represents a member of the group consisting of aromatic and heterocyclic radicals containing at least one carboxyl group, and containing as further substituents a member of the group consisting of hydrogen, alkyl and halogen, and Z means a member of the group consisting of hydrogen and sulfonic acid groups, dyeing in the form of their alkali metal salts vegetable, artificial and animal fibers as well as mixed fibers various shades of very good fastness properties, particularly of very good fastness to wet-processing.

2,288,523

DELIVERY MECHANISM

William F. Grupe, Lyndhurst, and Arthur M. Wickwire, Jr., Mountain Lakes, N. J., assignors, by mesne assignments, to Interchemical Corporation, New York, N. Y., a corporation of Ohio

Application July 14, 1939, Serial No. 284,490
14 Claims. (Cl. 271—63)



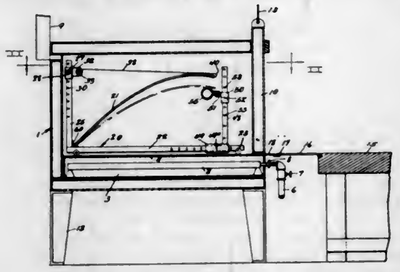
1. Apparatus for delivering a plurality of laterally contiguous longitudinal rows of individual blanks, in horizontal stacks, comprising means for gripping said blanks as they are formed and tilting each gripped blank about its longitudinal axis so as to cause the laterally contiguous rows to be initially separated, means for moving the gripped blanks through paths for further separating the longitudinal rows and releasing the thus separated blanks, and means for stacking the released blanks in horizontal stacks wherein the individual blanks are vertically disposed.

2,288,524

PROCESS OF RECLAIMING SAFETY GLASS

Frank W. Hall, Brackenridge, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

Application May 18, 1940, Serial No. 335,939
1 Claim. (Cl. 49—81.5)



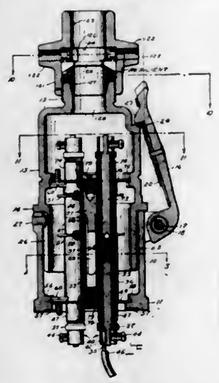
A process of reclaiming the glass laminae of a composite safety glass plate which comprises supporting a laminated plate in an inclined position by securing the upper glass lamina of the plate against movement, exposing the laminated plate to an atmosphere heated sufficiently to soften the medium bonding the glass laminae together to such an extent as to cause the unsupported glass lamina to drop away from the plate under the influence of gravity.

2,288,525

ELECTRICAL PLUG AND RECEPTACLE

Clarence A. Hardage, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York

Application May 21, 1940, Serial No. 336,477
8 Claims. (Cl. 173—328)



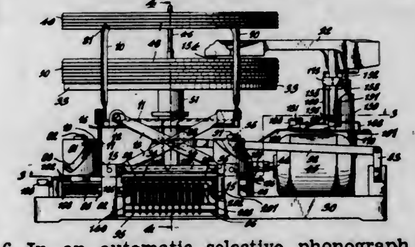
1. An electrical plug and receptacle comprising a plug body and a receptacle body, a supporting plate detachably secured in one of said bodies, a plurality of tubular insulating members carried by said plate, a metallic grounding circuit contact carried by said plate and cooperable to detachably secure said tubular members to said plate, a line circuit contact arranged in each of said tubular members, a plurality of complemental contacts carried by the other body, and means cooperable with said bodies upon axial movement of one toward the other to guide said contacts into engagement in a predetermined relation.

2,288,526

AUTOMATIC PHONOGRAPH

Otto A. Hokanson, North Tonawanda, N. Y., assignor to The Rudolph Wurlitzer Company, North Tonawanda, N. Y., a corporation of Ohio

Application October 16, 1937, Serial No. 169,442
22 Claims. (Cl. 274—10)



6. In an automatic selective phonograph, a tone arm, a vertically adjustable turntable for supporting a stack of records, means for moving the turntable from an initial position to different elevations in accordance with the positions of the records in the stack to present a given record for engagement with the tone arm and for returning the turntable to its initial position after the playing of that record, means for splitting the stack at the record to be played and for elevating those records above it to provide an operating clearance for the tone arm and for returning the split portion of the stack onto the turntable after the playing of a record, motivating means including a clutch for governing the selective movements of said turntable and said stack-splitting means, a plurality of record-selector elements corresponding in number to the records, a corresponding number of selective switches operatively-controlled by said selector elements and a normally-closed non-selective switch, an electric circuit including said selective switches and said non-selective switch, a plurality of individual contacts corresponding in number to and in circuit with the companion selective switches, an auxiliary contact in circuit with said non-selective switch, a revolving contact member in said circuit operatively connected to said motivating means and having arms thereon for engagement with said individual contacts and said auxiliary contact, respectively, for governing said clutch to control the selective movements of the turntable and the stack-splitting means to record-play position in accordance with the initial closing of the circuit through the medium of said selective or non-selective switches, and means initiated by the tone arm after the playing of a record for governing said clutch to restore the stack-splitting means and the turntable to their initial positions.

2,288,527

WALLPAPERING

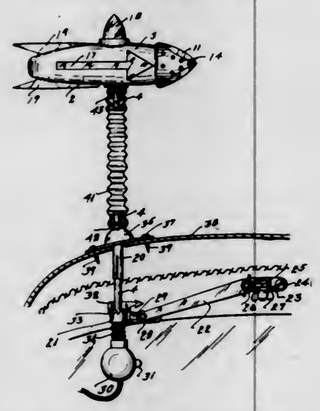
Ferdinand W. Humphner, Oak Park, Ill., assignor to Mid-States Gummed Paper Co., Chicago, Ill., a corporation of Delaware

No Drawing. Application March 25, 1939, Serial No. 264,237
5 Claims. (Cl. 117—11)

1. In a method of forming remoistening gummed wall paper, the steps of coating one side of a wall paper strip with a water-soluble gum, drying the gum, said gum causing the strip to curl toward the gummed side, fracturing the gum to an extent sufficient to produce a reverse curl, and thereafter applying a moisture-containing ground coat to the opposite side of said paper, said coat containing sufficient moisture to

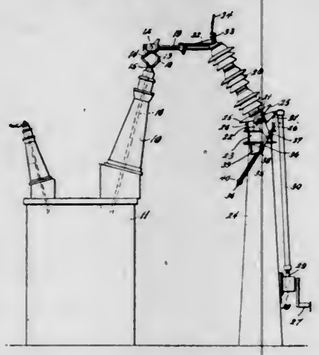
penetrate said paper and dissolve the inner portion of said gum sufficiently to straighten said paper.

2,288,528
DIRECTION INDICATOR AND SIGNAL
Otto H. Hunt, Salem, Oreg.
Application January 29, 1940, Serial No. 316,207
3 Claims. (Cl. 177—327)



1. A direction signal for vehicles and the like including a barrel shaped body having a lens at each end, projections at the forward end of the body beyond the adjacent lens and arranged in spaced relation and simulating in side view the head of an arrow, spaced projections at the rear end of the body extending beyond the adjacent lens and simulating in end view the tail of an arrow, and a light source adjacent to each lens.

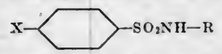
2,288,529
ELECTRICAL SWITCH
Tomlinson F. Johnson, Atlanta, Ga.
Application March 1, 1940, Serial No. 321,759
3 Claims. (Cl. 200—48)



1. An adjustable contact for high tension electrical switches comprising, in combination, a support; jointed members pivotally and adjustably connected to the support; a switch jaw carried by the jointed members; and means holding the jointed members frictionally adjusted, whereby the jaw may be adjusted in any direction within the plane of movement of a switch blade.

2,288,530
SULPHONIC ACID AMIDE COMPOUND
Josef Klarer and Fritz Mietzsch, Wuppertal-Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application September 1, 1938, Serial No. 227,887. In Germany September 8, 1937
3 Claims. (Cl. 260—397.7)

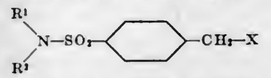
2. A compound selected from the group consisting of the compounds of the formula



and their nuclear lower alkyl and lower alkoxy substitution products, in which formula X stands for a substituent of the group consisting of the sulphamino and sulphaminobenzylamino groups and their neutral water-soluble salts, and R stands for one of the substituents hydrogen and the phenylsulphamido radical.

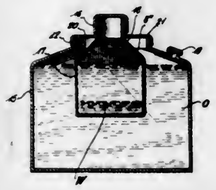
2,288,531
BENZENESULPHONAMIDE COMPOUNDS
Josef Klarer, Wuppertal-Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application January 16, 1940, Serial No. 314,093. In Germany January 27, 1939
2 Claims. (Cl. 260—556)

1. Compounds of the following formula



wherein R^1 is a substituent selected from the class consisting of hydrogen, alkyl, phenylalkyl, hydroxyalkyl, alkoxyalkyl, carboxylic acid acyl and heterocylic radicles, R^2 is a substituent selected from the class consisting of hydrogen and alkyl, and X is a substituent selected from the class consisting of amino and carboxylic acid-acylamino groups.

2,288,532
FILTER DEVICE
Budd L. Knapp, Skaneateles, N. Y.
Application September 12, 1939, Serial No. 294,529
2 Claims. (Cl. 210—169)

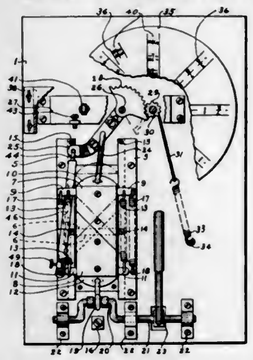


1. In combination with a container, a removable cover therefor, a filling spout in said cover, a filter cage fixed to said cover adjacent said spout and adapted to be positioned within said container, said cage having a diameter greater than that of the spout but less than that of the removable cover, said cage comprising a screen having sufficiently small apertures to prevent the passage of water due to the surface tension characteristics therebetween but will permit the passage of other fluids due to the differential between their surface tension characteristics.

2,288,533
PROCESS FOR THE PRODUCTION OF ARTIFICIAL RESINS
Ignaz Kreidl, London, England, and Franz Nozicka, Vienna, Germany, assignors to Fridolin Glass, trading under the style Vereinigte Chemische Fabriken Kreidl, Heller & Co. Nfg., Vienna, Germany
No Drawing. Application April 17, 1939, Serial No. 268,404. In Austria April 26, 1938
5 Claims. (Cl. 260—57)

5. A process for the production of artificial resins from phenols and formaldehyde, which comprises condensing a phenol with an aldehyde in the presence of an alkaline condensing agent until a resin is formed, neutralizing the alkali in the resulting condensation product, treating the neutralized product with ammonia, the maximum quantity of ammonia added being such that the total quantity of ammonia is reacted in the resin and that practically no free ammonia remains in the resin, adding to the condensation product thus treated at least one acidifying substance in such a quantity that the resin becomes acid, and adding to the resin zinc oxide in a quantity sufficient to neutralize the acid to harden the resin.

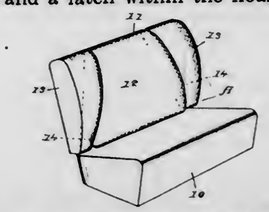
2,288,534
INDICATING INSTRUMENT
Fredrick A. Lower, Wichita Falls, Tex.
Application November 8, 1941, Serial No. 418,408
12 Claims. (Cl. 33—178)



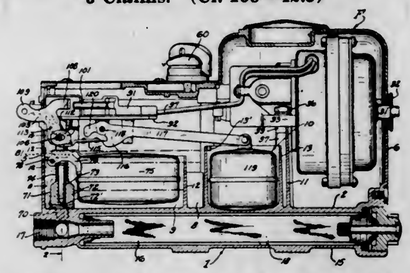
1. An indicating instrument comprising a pair of coacting elements adapted to receive a tool therebetween, each of said elements being constructed of a plurality of opposed laminations, each lamination having an inner face complementary to an inner face of the corresponding opposed lamination of the other coacting element and in position for direct abutting relation with said opposed lamination, and means operatively connected with at least one of said elements for indicating the spacing thereof by the tool.

2,288,535
SEAT FOR AUTOMOBILES
Joseph A. Marx, Jr., Saginaw, Mich.
Application February 5, 1940, Serial No. 317,400
2 Claims. (Cl. 155—5)

2. A seat, comprising a seat proper, a sectional back, one of the sections being fixedly associated with the seat proper, a swinging section hinged at its lower edge to the edge of the fixed back section, a rectangular housing carried by the upper end of the edge of the swinging section and adapted to enter and closely fit the rectangular opening in the upper end of the edge of the fixed section, and a latch within the housing and extending out through one side wall thereof and engaging the fixed section on the inside of the rectangular opening.



2,288,536
FUEL FEEDING MECHANISM FOR LIQUID FUEL BURNERS
Lourdes V. McCarty, Roy W. Johnson, and Frederick H. Newman, Milwaukee, Wis., assignors to Automatic Products Company, Milwaukee, Wis., a corporation of Wisconsin
Application December 24, 1938, Serial No. 247,632
3 Claims. (Cl. 158—42.3)

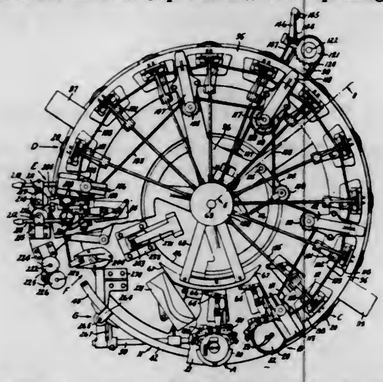


3. A liquid fuel feed mechanism comprising a casing having a combined liquid fuel supply and constant level chamber provided with an inlet and an outlet, a metering valve for said outlet positioned in said chamber, a pump in said chamber connected with said inlet and having an intake adapted to be connected to a source of supply of liquid fuel and discharging into said chamber, a continuously operating motor for driving said pump, a recirculating chamber in the casing for receiving fuel from said supply chamber to maintain a constant level of liquid fuel in the supply chamber, and a float-controlled valved connection between said recirculating chamber and the intake side of the pump, a safety cut-off mechanism acting when tripped to shut off said motor, and an overflow chamber having liquid level responsive means in the casing and functioning to trip said safety cut-off mechanism in the event the level of the liquid fuel in the liquid supply chamber and recirculating chamber rises a predetermined extent above the constant level normally maintained in said supply chamber.

2,288,537
SEALING MACHINE
Frank J. Malloy, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application March 16, 1939, Serial No. 262,222
23 Claims. (Cl. 49—2)

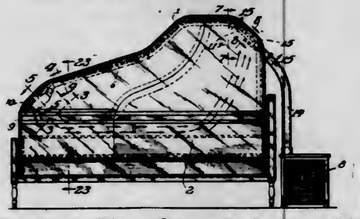
1. In a machine for sealing the skirts of metal terminal elements to vitreous cups around openings in said cups, the combination of a rotatable

turret, a plurality of heads mounted at regular intervals adjacent the periphery thereof each comprising a support for a vitreous cup, means for definitely locating said cup thereon and means mounted adjacent said support for positioning a terminal element with its skirt in sealing relation to the edges of the opening in said cup, means located along the path of movement of a head for heating the adjacent portions of the cup and the skirt of the terminal element carried by the head and means for producing a relative movement between said cup and skirt to cause the rim of said skirt to be sealed and embedded in said cup around said opening.



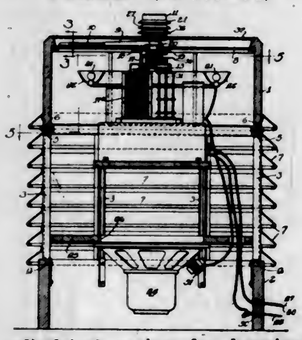
18. In a device of the character described, means for supporting a glass member having a plurality of openings therein comparatively close together with terminal members having metallic skirt portions in sealing relation to the edges of said openings, and a plurality of burners mounted to rotate on axes in alignment with said openings, each of said burners comprising a pair of jets located on opposite sides of its axis of rotation and arranged to direct flames toward the opening and associated terminal skirt portion said burners at the same speed so that the jets with which it is aligned, and means for rotating revolve in intersecting circular paths.

2,288,538
AIR CONDITIONED RECEPTACLE
Willard L. Morrison, Lake Forest, Ill.
Application March 5, 1934, Serial No. 713,991
Renewed October 26, 1938
7 Claims. (Cl. 98—1)



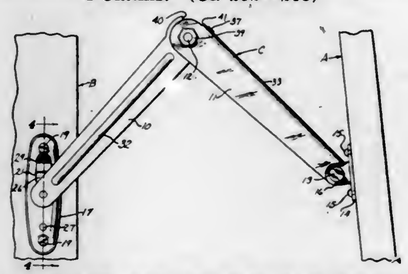
1. An air conditioned receptacle comprising an enclosing device of a length horizontally longer than a normal human being and into which said human being is received, so as to be entirely enclosed by said receptacle, an air duct entering the receptacle at one end thereof and extending along the top of said receptacle above the space occupied by the human being to the other end of said receptacle and having a discharge opening at said other end, an air straining chamber at the end of said duct being larger than the duct and acting to retard the movement of the air and cause said air to spread laterally, so that it occupies a wider area than the duct, and means at the end of the enclosing device where said duct enters it, for withdrawing air from said enclosing device.

2,288,539
RADIO DEVICE
Willard L. Morrison, Lake Forest, Ill.
Application April 13, 1936, Serial No. 74,026
7 Claims. (Cl. 250—14)



1. A cylindrical casing for housing a radio receiving device including a loudspeaker, said casing having an upper and a lower section separated by a space, connecting members connecting the upper and lower sections, and a series of spaced members extending horizontally around the casing between the said upper and lower sections and having sound discharge openings between them through which the sound is discharged said spaced members projecting outwardly outside the casing.

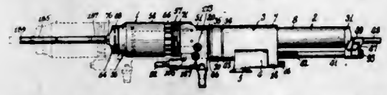
2,288,540
WINDOW STAY
Carl Olson, Minneapolis, Minn., assignor to Wright Products, Inc., Minneapolis, Minn., a corporation of Minnesota
Application November 20, 1940, Serial No. 366,355
4 Claims. (Cl. 292—263)



1. A window stay for detachable connection at one end to a window element, comprising an arm, a pin on the arm, a mounting plate secured to the window element and having a keyhole-shaped slot, the said pin being adapted for end-wise entrance through the wider end of the slot and having a circumferential groove for pivotal engagement with the margins of the narrow end of the said slot, a spring secured to an inner side of the plate and extended at one end outwardly from the plate for manual operation, and a lug on the spring for engagement with the pin

to prevent movement of the same from its pivotal engagement with the narrow end of the slot.

2,288,541
DRILLING APPARATUS
Win W. Paget, Michigan City, Ind., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application April 19, 1939, Serial No. 268,792
33 Claims. (Cl. 255—47)



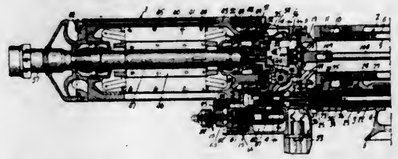
1. In a drilling apparatus, the combination comprising a drilling motor for actuating a drill bit, said motor having a source of motive power, fluid actuated feeding means for said drilling motor, means distinct from the motive power source for said motor for supplying actuating fluid to said feeding means, and means for automatically stopping said drilling motor in the event of failure of the fluid supply.

2,288,542
DRILLING APPARATUS
Win W. Paget, Michigan City, Ind., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Original application April 19, 1939, Serial No. 268,792. Divided and this application May 25, 1940, Serial No. 337,277
16 Claims. (Cl. 255—47)



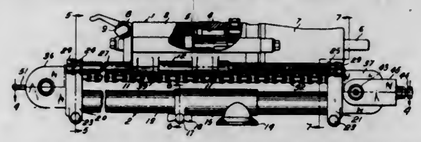
1. In a drilling apparatus, the combination comprising a support having a bore providing a longitudinal guideway, a drilling motor, feeding means for said motor comprising a feed cylinder guided for longitudinal adjustment in said guideway bore, and manually operable means comprising an adjusting element arranged in parallel side by side relation with said feed cylinder for adjusting the latter in said guideway bore, said adjusting element mounted for longitudinal movement with said feed cylinder as the latter is adjusted longitudinally in said guideway bore.

2,288,543
DRILLING APPARATUS
Win W. Paget, Michigan City, Ind., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application March 5, 1940, Serial No. 322,267
27 Claims. (Cl. 255—47)



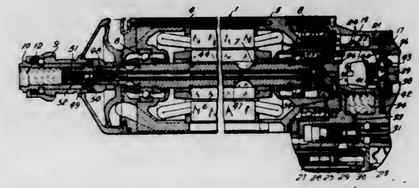
1. In a drilling apparatus, the combination comprising a drilling motor, fluid actuated feeding means therefor, means associated with said fluid actuated feeding means for manually feeding said motor, means automatically operative when a predetermined load on said motor is reached for automatically interrupting the flow of fluid to said feeding means and entrapping the feeding fluid therein, and associated means automatically responsive to an increased load on said motor due to increased loading of said motor by said manual feeding means for venting the previously entrapped feeding fluid while precluding the entry of further feeding fluid thereto.

2,288,544
ROCK DRILLING APPARATUS
John C. Curtis and Elmer G. Gartin, Claremont, N. H., assignors to Sullivan Machinery Company, a corporation of Massachusetts
Application June 25, 1940, Serial No. 342,326
17 Claims. (Cl. 255—45)



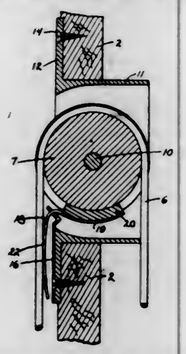
1. In a rock drill, the combination comprising a drill motor of the reciprocating hammer piston type in which longitudinal vibratory movements in opposite directions occur during running of the motor, guide members along which said drill motor is movable, means for supporting said guide members for rectilinear adjustment in a direction longitudinally of said drill motor and for angular adjustment about an axis parallel to and spaced from the longitudinal axis of said drill motor, and means controlled by said longitudinal vibratory movements of said drill motor for effecting feed of the motor along said guide members, said feed effecting means including a flexible control element connected to said drill motor and guided for circulation with a portion of its length lying in the axis about which said guide members are angularly adjustable.

2,288,545
DRILLING APPARATUS
Charles F. Osgood, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application July 26, 1940, Serial No. 347,716
15 Claims. (Cl. 255—47)



1. In a drilling apparatus, the combination comprising means for rotating a drill bit, valve-controlled means for conducting cleansing fluid to the drill bit, fluid actuated means for controlling said bit rotating means, and means for starting said bit rotating means after the cleansing fluid flowing through the conducting means reaches the drill bit including means for subjecting said fluid actuated control means to the pressure of the fluid in said conducting means, said subjecting means including a passage connecting with said conducting means at a point at the bit side of the control valve for said conducting means.

2,288,546
SASH PULLEY BRAKE
Frank F. Painter and William G. Smith, Tarentum, Pa., assignors to Pittsburgh Plate Glass Company, a corporation of Pennsylvania
Application April 13, 1940, Serial No. 329,478
1 Claim. (Cl. 16—193)



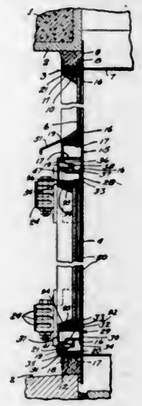
The combination with a sash pulley over which passes a sash cord, of a brake comprising an angular metal strip pivotally mounted upon a fixed fulcrum independent of the pulley, one arm of the strip movable into engagement with the pulley and the other arm contacting the sash cord so that tension upon the sash cord actuates the strip to exert a braking pressure upon the pulley.

2,288,547
PROCESS OF WORKING UP COMPLEX AMMONIACAL SOLUTIONS OF METAL
Karl Pattock, Wolfen, and Ehrhard Meier, Bitterfeld, Germany
No Drawing. Application August 25, 1938, Serial No. 226,748. In Germany September 14, 1937
5 Claims. (Cl. 23—50)

1. The process of recovering metals present in small amounts as basic compounds from complex ammoniacal solutions which comprises passing the solutions through a filter charged with a phenol-aldehyde resin containing ω-sulfonic acid groups, regenerating said filter with a concentrated aqueous solution of an ammonium salt selected from the group consisting of ammonium carbonate, ammonium sulfite, and ammonium formate to obtain a concentrated ammoniacal metal solution containing the metal in concentrated form and thermally decomposing the regeneration liquid obtained to give a compound of the metal and vapors of ammonia and of the acid component of the steam volatile ammonium salt, which vapors may be recombined and returned to the regenerating solution.

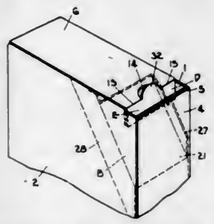
2,288,548
WINDOW CONSTRUCTION
Edmund Peremi, Manhasset, and Louis Toth, Flushing, N. Y.
Application December 5, 1938, Serial No. 243,933
5 Claims. (Cl. 189—75)

1. The combination with a wall of a building having a window opening therein, of a window frame and sash mounted therein, a mounting frame to which said window frame is rigidly secured, said mounting frame comprising a metallic member folded upon itself at a point where the frame is mounted thereon, extending perpendicularly of said window, one portion of said folded member extending laterally and then outwardly of said window opening whereby a caulking pocket is formed therein, the other portion of said folded member extending inwardly of said window opening for the extent of the thickness of the building wall and slightly therebeyond



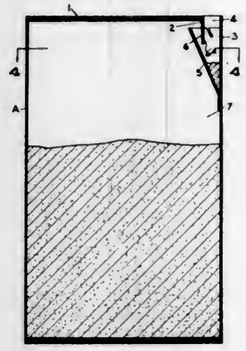
forming a reveal, and then extending laterally in a plane parallel to the window opening and away from said window opening and then in a direction perpendicular to said plane and toward the outside of the building to form a finishing pocket for the interior plastering of said wall.

2,288,549
CONTAINER
George Alexander Ramsden and George John Russell Ramsden, Lambeth, Ontario, Canada
Application April 23, 1940, Serial No. 331,196
16 Claims. (Cl. 221—98)



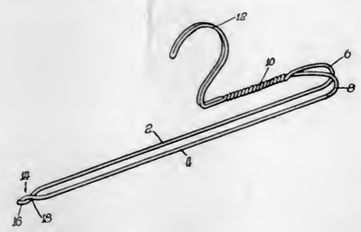
1. In a container including side and end walls, flap closures for top and bottom completely sealing the container, the top flap closure having one end portion adapted to be turned down into the container to form a discharge slit through the top of the container and disposed in spaced relation to the adjacent end wall to form a baffle thereby leaving a discharge passage between it and such end wall in communication with said slit, an inwardly inclined baffle between the side walls extending upwardly from an intermediate point in the height of the aforesaid end wall and having its free edge disposed in spaced relation to the top flap closure, said inwardly inclined baffle being located in spaced relation to the depending baffle on the side remote from the aforesaid end wall, and means at one side of the inwardly inclined baffle abutting the aforesaid end wall and the top flap closure and movable into position by the latter for locking said inwardly inclined baffle in its inclined position.

2,288,550
CONTAINER
George Alexander Ramsden and George John Russell Ramsden, Lambeth, Ontario, Canada
Application January 18, 1940, Serial No. 314,522
In Canada April 13, 1939
4 Claims. (Cl. 221—98)



1. In a container having a top closure flap completely sealing the container, the combination with the side and end walls and the top closure flap thereof, of an integral end portion of said top closure flap normally lying in the plane of the top closure flap adapted to be swung down out of the plane of the top closure flap into a desired fixed position within the container to constitute a depending baffle therein and forming when so swung down a dispensing slit in the top between said depending baffle and the adjacent end wall, and a second baffle secured to the aforesaid end wall and extending between the side walls with its upper end positioned in spaced relation to the top closure flap and to the depending baffle on the side thereof remote from the aforesaid adjacent end wall.

2,288,551
CLOTHES HANGER
Richard James Shanahan, Evanston, Ill.
Application February 15, 1940, Serial No. 319,000
4 Claims. (Cl. 223—95)

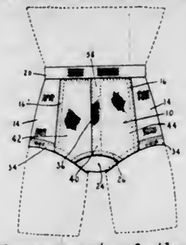


1. A clothes hanger formed from a substantially continuous piece of heavy wire comprising a pair of side by side freely separable supporting members having free ends and separable fastening means adjacent thereto to fasten and unfasten said ends, and with the ends opposite said free ends bent upwardly and backwardly in the general direction of the free ends to form a hook member adapted to support the hanger from a suitable supporting means.

2,288,552
METHOD OF SURFACE TREATING OBJECTS OF CAST MAGNESIUM BASE ALLOYS
Gustav Siebel and Eduard Nachtigall, Bitterfeld, Germany
No Drawing. Application January 23, 1940, Serial No. 315,183. In Germany February 23, 1939
1 Claim. (Cl. 148—6)

A process for producing a coating of uniform appearance upon a casting of a magnesium base alloy containing at least about 4 per cent of aluminum, which comprises subjecting said magnesium base alloy casting to a heat treatment at a temperature above about 320° C. for a period of time sufficient to cause at least partial homogenization of the alloy, and then subjecting said casting to a preliminary pickling in a bath containing a dichromate and being free from organic coloring matter and thereafter treating said casting in a solution containing a dichromate and an organic coloring agent not decomposed by the said dichromate.

2,288,553
UNDERGARMENT
Frank J. Slezak, San Francisco, Calif.
Application March 9, 1940, Serial No. 323,127
3 Claims. (Cl. 2—226)

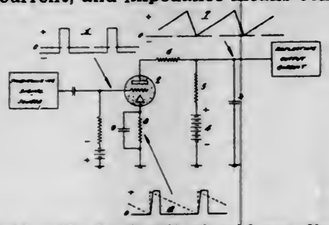


1. An undergarment of the class described comprising front and back portions of substantially inextensible woven cloth, interposed side sections of relatively extensible knit cloth stitched to said front and back portions at both sides of the garment, the wales of said knit material in said side sections extending longitudinally of the garment whereby said sections are substantially inextensible longitudinally of the garment but are elastic laterally thereof, and a crotch part of inextensible woven cloth extending from the front to the rear of the garment and stitched to the lower edges of said front and back portions and positioned in the garment so that it is located at the crotch of the wearer, when the garment is worn, whereby to constitute a support, the material of said front and back portions being bias-cut and arranged in the garment on the bias so that said portions are slightly elastic longitudinally and laterally of the wearer and substantially inextensible along oblique lines extending upwardly from said crotch part to the opposite side edges, respectively, of said front and back portions whereby said side sections and said front and back portions tension said crotch part laterally and upwardly.

2,288,554
SYNCHRONIZING SYSTEM AND METHOD
Newland F. Smith, Jr., Wyndmoor, Pa., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application May 24, 1940, Serial No. 337,059
In Great Britain June 5, 1939
8 Claims. (Cl. 178—69.5)

1. In a television system, apparatus for gen-

erating deflecting waveforms, comprising a condenser across which said deflecting waveform is developed, means including a source of voltage for charging said condenser, means including a grid-controlled gas-discharge device having at least an anode, a cathode and a control grid for discharging said condenser in response to pulse signals appled to the grid-cathode circuit of said device, a source of desired and undesired pulse signals coupled to said grid-cathode circuit, said desired pulse signals being substantially periodically recurrent, and impedance means connected

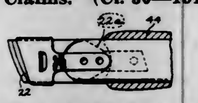


in the grid-cathode circuit of said gas-discharge device and responsive to a pulse of current produced therethrough in response to one of said desired pulse signals for developing in said grid-cathode circuit a voltage which persists throughout a substantial portion of the interval between said desired pulse signal and the next succeeding desired pulse signal but which is substantially dissipated prior to the occurrence of said next pulse signal, said voltage being of sufficient magnitude during said portion of the interval to substantially prevent the actuation of said gas-discharge device by said undesired pulse signals.

2,288,555

SPOT KNIFE

Eudore J. St. Jacques, Dayton, Ohio
Application July 13, 1939, Serial No. 284,220
3 Claims. (Cl. 30—151)



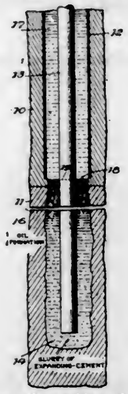
1. A spot knife assembly including a long slender handle having an aperture merging into diverging edges located in one end thereof, a spot knife blade having a main body portion substantially the width of the handle, which body portion merges into converging portions terminating in a tang projecting into the aperture and snugly fitted therein, and a non-setting adhesive material coating the tang for removably holding the blade in fixed position with respect to the handle.

2,288,556

METHOD OF AND COMPOSITION FOR PRODUCING PERMEABLE PACKS IN WELLS

Leslie W. Vollmer, Pittsburgh, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application June 28, 1939, Serial No. 281,716
15 Claims. (Cl. 166—26)

1. A method of producing a permeable pack in a well which comprises depositing adjacent a producing zone of a well and maintaining thereat, under a pressure of the same order as the well formation pressure, until set, a body of a fluent slurry of cement, containing a quantity of gas-generating material comprising finely divided matter, adapted to generate gradually a gas of relatively low solubility in water and in amount great enough so that as the slurry sets, under a maintained pressure sufficient substantially to prevent expansion of the body of cement slurry as a whole, interconnecting voids are formed in the body with development of a substantial degree of permeability to fluids.

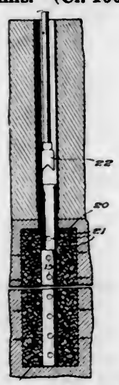


6. A composition of matter for use in providing permeable packs in wells, comprising cement and a quality of gas-generating material distributed therethrough, said material comprising finely divided matter of shape relatively elongated in at least one dimension to a length much greater than the dimensions of the cement particles and of character such as to generate a gas of relatively low solubility in water, and in amount great enough so that when a body of the cement is gaged with water and caused to set under a superatmospheric pressure, such as to prevent any substantial expansion, interconnected voids are formed in the body with development of a substantial degree of permeability to fluids.

2,288,557

METHOD OF AND COMPOSITION FOR PROVIDING PERMEABLE CEMENT PACKS IN WELLS

Leslie W. Vollmer, Pittsburgh, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application June 20, 1940, Serial No. 341,543
18 Claims. (Cl. 166—26)



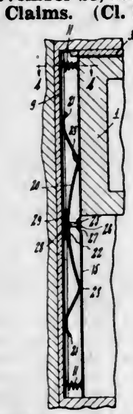
1. A method of providing permeable cement packs in wells which comprises introducing into the well a charge of a cement slurry containing individually-highly-permeable granules, which

are small enough to permit introduction of the slurry into place in a well by usual well-cementing methods, which have a permeability of the order of at least 60 darcies and which have the characteristics, as regards permeability and fluid channel shape and size, of granules made by burning clay containing finely-divided combustible material of elongated shape whereby to leave fine interconnected voids and channels in the clay on burning out the substance; said slurry also containing a gas generating agent of a length materially greater than the size of cement particles and in amount sufficient to develop permeability in the cement when caused to set under substantial super-atmospheric pressure such as obtains at the level of the producing regions of oil wells, whereby to establish communication, through the cement, between said highly permeable granules; and causing the slurry to set under super-atmospheric pressure and harden in the well.

2,288,558

FRICTION WINDOW SASH MOUNTING

Fred N. Vose, Belfast, Maine, assignor to Mathews Brother Co., Belfast, Maine, a corporation of Maine
Application November 28, 1939, Serial No. 306,440
2 Claims. (Cl. 20—52)



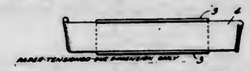
1. The combination with a window frame having a sash guide, and a recess extending lengthwise within said sash guide, of a generally U shaped sash-engaging member seated in said recess, a leaf spring between the sides of said member and having end portions engaging the base of said recess and portions between said end portions and central portion for engagement with the back face of said sash-engaging member, and means engageable with the central portion of said spring and said sash-engaging member and accessible from the sash-engaging face of said member for adjusting said central portion toward and from the base of said recess, thereby adjusting the pressure of said spring acting to push said member against the edge of a sash movable in said sash guide.

2,288,559

METHOD OF MOLDING ORNAMENTAL PANELS

Albert Neal Ward, Portland, Maine
Application May 21, 1940, Serial No. 336,480
2 Claims. (Cl. 18—61)

1. The method of producing a unique and ornamental surface in cementitious material which comprises placing on a rigid surface a substantially smooth sheet of relatively thin dry material which will crinkle or otherwise deform under the influence of a layer of semi-fluid, hardenable cementitious plastic material, tensioning said



sheet along one dimension only thereof, applying a layer of hardenable, cementitious plastic material in semi-fluid condition to the sheet, allowing the plastic material to harden while maintaining said tension, and removing the hardened material from the sheet.

2,288,560

THERMOHYDROMETER

Joseph T. Webber, Oak Park, Ill., assignor to Roscoe B. Lacey, Chicago, Ill.
Application May 15, 1939, Serial No. 273,661
22 Claims. (Cl. 265—46)



1. A liquid testing instrument adapted to afford a direct reading of temperature-corrected specific gravity of the liquid tested, comprising a barrel having a float therein and adapted to receive the liquid to be tested, calibrations on the float to enable a reading of the position of the float relative to liquid in the barrel to be taken, said barrel being transparent at least in part for that purpose, an inlet chamber communicating with the interior of said barrel and into which liquid is adapted to be drawn, and a cylindrical sleeve surrounding the lower end of said barrel and coacting therewith to define an annular chamber between the barrel and sleeve, said chamber communicating with said inlet chamber and being closed at its upper end to provide an air lock preventing substantial entrance of liquid into the annular chamber, a coiled bimetallic thermally responsive element fixed at its center in said inlet chamber adjacent said barrel and having an indicating finger projecting into the air filled space in said annular chamber, said bimetallic element responding to the temperature of fluid admitted to the inlet chamber to shift said finger, and a calculating member rotatably mounted on said sleeve and having vertically spaced windows therein, said sleeve having scales thereon bearing corrected indications of freezing points for various liquids tested disposed in alinement with the respective windows, said calculating member having calibrated indicia corresponding to calibrations on the float disposed thereon at a point adjacent the finger on said thermally

responsive element, said calculating member being rotatable relative to said element to position the calibrations with reference to the finger and thereby adjust the windows with reference to the scales so that a corrected reading may be taken directly through the appropriate window for the liquid being tested.

2,288,561
THERMOHYDROMETER AND CALCULATING DEVICE THEREFOR

Joseph T. Webber, Kalamazoo, Mich., assignor to Roscoe B. Lacey, Kalamazoo, Mich.

Application May 29, 1941, Serial No. 395,713
14 Claims. (Cl. 265—46)



1. A liquid testing device having a temperature indicating element positionable on the device in response to the temperature of the liquid tested, a calculating member rotatably mounted on said device and provided with means positionable in alignment with said element to set the member in temperature corrected specific gravity relation to the device, said container having a scale thereon beneath said calculating member calibrated in terms of freezing point and the calculating member being provided with a window having a pointer adjacent the same through which said scale is viewed, the pointer coacting with the calibrations of said scale to designate the freezing point of the liquid corrected for the existing temperature thereof, said calculating member being calibrated adjacent said window and pointer in terms of volumes of liquid for coaction with the scale calibrations in ascertaining the altered freezing point of a given volume of the liquid attendant upon the addition of a given quantity of anti-freeze agent thereto, a further scale positioned on said device beneath said calculating member, said last named scale being likewise calibrated in terms of freezing point and having numerical indicia disposed adjacent and in predetermined relation to the calibrations thereon, said indicia expressing quantities of anti-freeze agent, said calculating member having a window through which said last named scale and indicia are viewed and being calibrated in terms of liquid volumes adjacent said last named scale for coaction with said last named scale in setting up a predetermined relation of a given volume to a given desired freezing point, said calculating member having a pointer adjacent said last named window coacting with said indicia in indicating a given indicium thereof representing a quantity of said agent requisite to produce the aforesaid relation of volume and freezing point.

2,288,562
ARROW SHAFT CONSTRUCTION

John J. Birkhofer, Union, and Edward Jansen Heizer, West Caldwell, N. J., assignors to The Kroydon Company, Maplewood, N. J., a corporation of New Jersey

Application May 17, 1941, Serial No. 394,002
5 Claims. (Cl. 273—106.5)

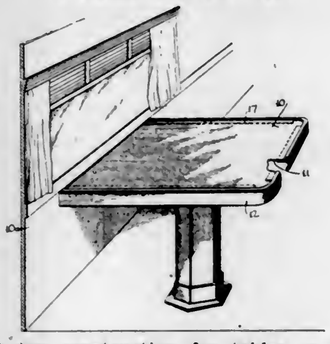


2. An arrow shaft having improved flight characteristics and being highly resistant to impact shock, bending and denting comprising a tubular metallic shaft having uniform thin wall thickness and provided in its length with a uniformly diametered portion and with oppositely tapering portions extending from said uniformly diametered portion, one of said tapering portions being longer than the other tapering portion, and said uniformly diametered portion being shorter than either of said tapering portions.

2,288,563
TOP CONSTRUCTION FOR TABLES OR THE LIKE

Wilfrid Fall, Upper Darby, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application August 3, 1940, Serial No. 350,865
4 Claims. (Cl. 311—106)

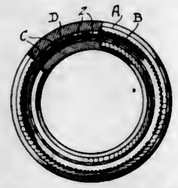


4. A top construction for tables or the like comprising a generally rectangular sheet metal top panel having rounded corners, and a marginal reinforcing member therefor having a vertical body portion formed adjacent its top with a lateral groove to receive the edge of a panel and an integral lateral attaching flange extending the lower side wall of the groove beyond the body portion and overlapping and secured to the top panel, said flange being cut away at the rounded corners to facilitate bending the reinforcing member around the same.

2,288,564
METHOD OF MAKING CAGES FOR ROLLER BEARINGS

Richard J. Gales, West Caldwell, N. J., assignor to Orange Roller Bearing Co. Inc., a corporation of New Jersey

Application June 25, 1940, Serial No. 342,238
3 Claims. (Cl. 29—148.4)

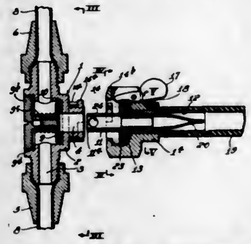


2. The method of making a cage for the rollers of a roller bearing, which consists in punching in a flat strip of metal that has a thickness less than the diameter of the rollers to be held by the cage and whose opposite faces are parallel to each other, a plurality of slots each of which has a width approximately equal to the diameter of such rollers and has side walls perpendicular throughout their widths to the opposite faces of the strip, then bending the strip into a circular ring with the ends of the strip in abutting relation to each other so that the side walls of said slots are in planes approximately radial to the axis of the ring, and inserting a roller in each slot from the outer circumference of the ring.

2,288,565
BREATHING APPARATUS SUPPLY VALVE

Daniel A. Green, North Braddock Township, Allegheny County, Pa., assignor to Mine Safety Appliances Company, Pittsburgh, Pa.

Application May 31, 1940, Serial No. 337,984
3 Claims. (Cl. 284—19)



1. In a coupling device to connect a source of respirable air under pressure to a breathing apparatus comprising a housing section adapted to be connected into a manifold arrangement and having a passage therethrough to a connectible outlet, a removable section adapted to be quickly connected and sealed to the connectable outlet of the housing, a normally closed valve in the housing, the removable section having a means engageable with the valve to open the valve when the sections are connected and a duct portion to be attached to an inlet tube of a breathing apparatus, and a low resistance valve sealed to the removable section to control the flow of air in either direction through the duct and positioned within the duct and operative on small differences in pressure on each side of the valve to move from one position to another and effective to seal the breathing apparatus from the atmosphere when the removable section is detached from the housing by the force of pressure in the inlet tube of the breathing apparatus acting on the outer opposite surfaces of the valve.

2,288,566
PROCESS OF PRODUCING ACRYLIC ACID AND ITS SALTS

Karl M. Herstein, New York, N. Y., assignor to Acrolein Corporation, a corporation of Delaware

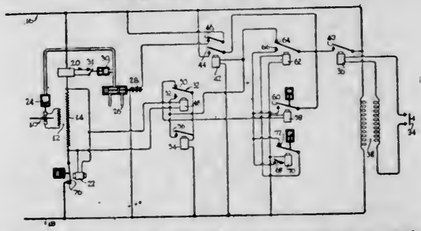
No Drawing. Application April 11, 1940, Serial No. 329,034
14 Claims. (Cl. 260—530)

11. The process of producing acrylic acid which comprises subjecting acrolein to the action of oxygen in an aqueous alkaline solution of a compound which in said solution produces ions of the group consisting of alkali and alkaline earth metal ions, said solution also containing catalytic quantities of a catalyst containing silver as an essential ingredient, and thereafter converting the resulting salt of acrylic acid into acrylic acid.

2.288.567
WELDING CONTROL

Charles E. Heitman, Jr., and Frederic E. Laig, Philadelphia, Pa., assignors to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application March 22, 1939, Serial No. 263,324
11 Claims. (Cl. 219—4)

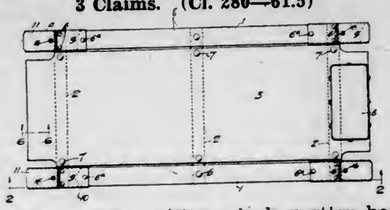


4. In a timer control for an electric welding circuit, means for effecting engagement under pressure of a pair of welding electrodes with work pieces including a timer control, and for causing a welding current to flow through said electrodes, and means at all times independent of said timer control responsive to the flow of welding current for positively maintaining the said welding electrodes under said pressure during the flow of welding current.

2,288,568
CREEPER

Ernest W. Holmes, Chattanooga, Tenn., assignor to Ernest Holmes Company, Chattanooga, Tenn., a corporation of Tennessee

Application May 29, 1940, Serial No. 337,915
3 Claims. (Cl. 280—61.5)



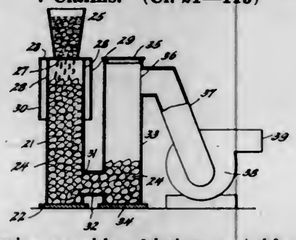
1. A creeper comprising a body portion having

side members, brackets each having a shank of channel form fixed to the top of the respective side member and providing flanges extending downwardly and embracing the sides thereof, each bracket having an extension proceeding endwise from and offset upwardly above said shank and extending beyond an end of the respective side member, and casters carried beneath said upwardly offset extensions of the brackets.

2,288,569
PROTECTION OF ECONOMIC CROPS

Donald Bentley Mason, Westport, Conn., and Paul Donald Peterson, Highland Park, N. J., assignors to Freeport Sulphur Company, New York, N. Y., a corporation of Delaware

Application October 31, 1938, Serial No. 238,058
7 Claims. (Cl. 21—115)

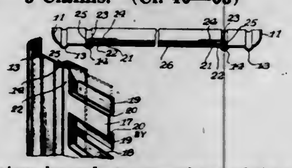


1. A device capable of being portably mounted on a vehicle for delivering sulphurous gases to growing plants comprising a column, a filling material in said column, means for heating said filling material, a hopper for sulphur in heat exchange relation with said column whereby sulphur melted in said hopper by heat from the filling material may flow onto said heated filling material, and means for delivering sulphurous gases from said column.

2,288,570
SIGNBOARD

Theodore Mungen, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application August 4, 1939, Serial No. 288,284
5 Claims. (Cl. 40—63)

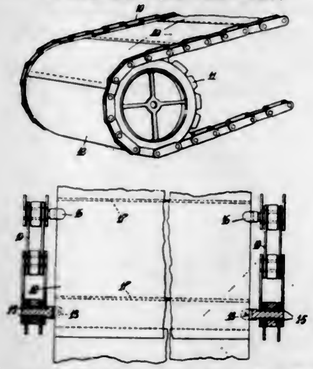


1. In a sign board, a one-piece plate member, a plurality of elongated sections of the central main portion of said member being rearwardly offset, these offset sections forming an integral part of said member, and each of said sections being slotted in its longitudinal direction intermediate its longitudinal margins so as to allow parts of interchangeable signs to extend through the slots and to engage the rear of said elongated sections adjacent to said slots, the connection between the main portion of said member and each of said offset sections being interrupted along at least one of the short ends of said sections, so as to allow the entrance of one end of another type of interchangeable web-shaped sign from the front side of the board, means along the margins of said board as to keep the board and the offset sections therein in spaced relation to the surface of a member such as a wall to which the board is adapted to be fastened.

2,288,571
CONVEYER

John Edward Pointon, Peterborough, England, assignor to Baker Perkins Incorporated, Saginaw, Mich.

Application November 26, 1940, Serial No. 367,269. In Great Britain November 13, 1939
3 Claims. (Cl. 198—193)

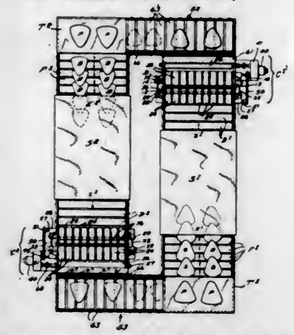


1. A composite band conveyer for bake ovens comprising endless power-driven chains, a plurality of longitudinally flexible elongated metal sheets fixed at their leading ends only to said chains to present a continuous oven sole extending through the baking chamber, chain sprockets at the turning points of said chains and a rotatable drum arranged coaxially with the sprockets at each turning point to support the sheets and limit the radius to which they are bent in passing around said turning points, and means secured to the chains intermediate the leading ends of the sheets for slidably supporting the edges of said sheets in the baking and return runs.

2,288,572
FELTING HAT BODIES

Ralph K. Reynolds and Burling D. Wells, Danbury, Conn., assignors to The Mallory Hat Company, Danbury, Conn., a corporation of Connecticut

Application December 31, 1938, Serial No. 248,893
25 Claims. (Cl. 28—6)



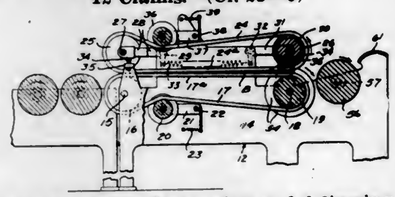
1. A felting apparatus for felting felt hat bodies and the like comprising means forming a plurality of successively arranged and spaced stations at each of which an operator may be stationed, said apparatus having arranged between each two successive stations a felting machine having an entry end for hat bodies and an exit end with hat-feeding means at its entry end,

said felting machine being positioned with said feeding means at the first of each two successive stations whereby the operator at said station may successively position hat bodies from a pile at his station onto said feeding means, there being at the exit end of said felting machine means for crozing and stacking in a pile hat bodies discharged from said felting machine, a normally ineffective transfer mechanism positioned adjacent each stacking means to receive thereon hat bodies as stacked by said stacking means and having a path of movement to transfer a pile of hats to the next succeeding station, actuating means for making said transfer mechanism effective, and control means responsive to the passage of hat bodies along a path from the exit end of said felting machine to said transfer mechanism and operating upon the movement of a certain quantity of hat bodies through said path for causing said actuating means to make said transfer mechanism effective.

2,288,573
CROZING AND STACKING MECHANISM FOR HAT BODIES

Ralph K. Reynolds and Burling D. Wells, Danbury, Conn., assignors to The Mallory Hat Company, Danbury, Conn., a corporation of Connecticut

Original application December 31, 1938, Serial No. 248,893. Divided and this application March 5, 1941, Serial No. 381,852
12 Claims. (Cl. 28—6)

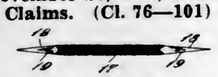


1. An apparatus for crozing and delivering hat bodies comprising two endless belt means having rotary means for supporting them with two reaches thereof adjacent each other and means for urging at least one of said belt reaches toward the other to grip a hat body therebetween, means for driving said belt means so that their said adjacent reaches travel in the same direction and at substantial but differing velocities, thereby to effect relative movement between the two plies of a hat body received therebetween and to discharge it in flattened out condition, and means for controlling the extent of the relative movement between the two plies of the hat body as effected by a given difference in velocities of said two belt means, said controlling means comprising means operable to determine the extent to which one belt reach is urged toward the other and thereby affect the grip of the belt reaches upon the plies of the hat body respectively engaged by them.

2,288,574
METHOD OF FORMING REAMER TAPS

Thomas G. Sadler, Attleboro, Mass., assignor to Sadler Bros., Inc., a corporation of Massachusetts

Application November 22, 1940, Serial No. 366,654
3 Claims. (Cl. 76—101)

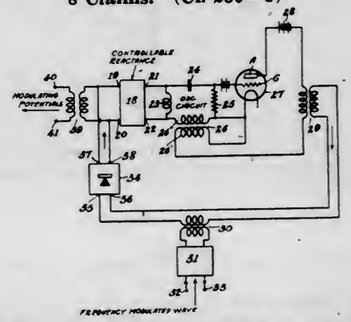


1. The method of forming a reamer tap which consists in the continuous threading of a length of wire of the proper diameter for an extended length thereof, severing across the threads of the wire to form a section the desired length of the tap, and then pointing both ends of the severed section to form sharp angular reaming edges.

2,288,575
FREQUENCY MODULATION

Wilhelm Stäblein, Berlin, Germany, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware

Application May 31, 1940, Serial No. 338,012
In Germany January 16, 1939
8 Claims. (Cl. 250—6)



1. A frequency modulation system comprising an oscillator including a reactive circuit which determines in part the frequency of operation of the oscillator, means for controlling the reactance of said reactive circuit in accordance with signals to control the frequency of operation of said oscillator, transmitting means coupled to said oscillator, a receiver comprising an oscillator including a reactive circuit electrically similar to said first reactive circuit, means for combining transmitted wave energy and oscillations produced by said last oscillator, and means for detecting the combined wave energy and controlling the reactance of the reactive circuit of said last oscillator in accordance with the output of the detecting means.

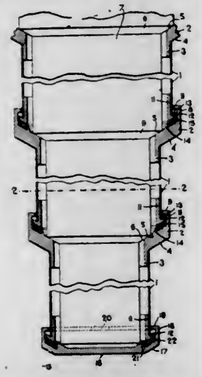
2,288,576
SECTIONAL PILE SHELL

Albert C. Titcomb, Chestnut Hill, and Mark D. Cronan, Belmont, Mass., assignors to New England Foundation Company, Inc., Boston, Mass., a corporation of Massachusetts

Application April 27, 1940, Serial No. 332,050
8 Claims. (Cl. 61—78)

1. A pile shell, to be driven into the ground to receive a suitable filling, comprising a plurality of axially superimposed tubular sections each section having at its upper end a rigid collar overlying and engaging said end and presenting a shoulder adapted to be engaged by a shouldered member of a driving core and having a tubular portion tightly fitting within and fixedly secured to the section and an outer upwardly extending peripheral wall of substantially greater diameter than that of said tubular section forming a socket to receive the lower end of the shell of the adjacent upper section, and complementary coupling means respectively on the lower end portion of each tubular section and the adjacent collar of the next lower section so constructed as to enable the lower end of the upper section telescopically to enter the socket of said collar and

upon limited relative rotation between said adjacent sections to prevent separation of said sections while permitting limited longitudinal move-



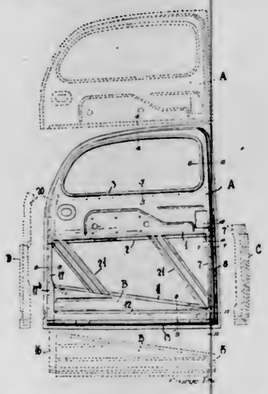
ment therebetween, whereby each section will be driven at its upper end without tension upon the adjacent upper section.

2,288,577

VEHICLE DOOR AND METHOD OF MAKING THE SAME

George Trautvetter, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application September 23, 1937, Serial No. 165,302
6 Claims. (Cl. 296—44)



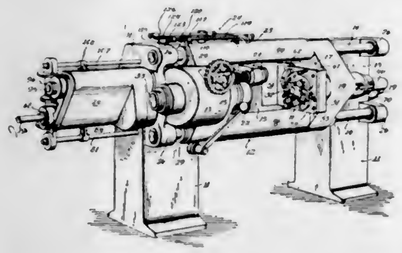
1. In a sheet metal door comprising inner and outer panels and having a window opening, an inner panel being made up of an upper one-piece stamping containing the window opening and being provided along its upper edge and its substantially vertical edges with outwardly extending flanges forming the top rail and the upper sections of the side rails of the door frame, of a separate lower stamping being spaced from said upper section and forming the lower door rail, and of two further separate stampings forming the lower sections of the side rails of the door, the upper ends of said last-named stampings being rigidly connected to the lower ends of said upper side rail sections and the lower ends of said last-named stampings being rigidly connected to the ends of said lower stamping.

2,288,578

TURNING MACHINE

Lucien I. Yeomans, Chicago, Ill., and De Witt Clausen, Akron, Ohio, assignors to Lucien I. Yeomans, Incorporated, Chicago, Ill., a corporation of Illinois

Application May 29, 1940, Serial No. 337,760
18 Claims. (Cl. 82—20)



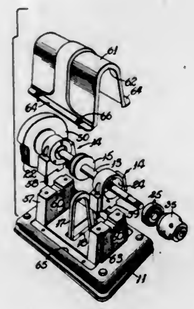
1. A turning machine comprising, in combination, a base, a pair of spaced guideways extending longitudinally along one side of said base and disposed one above the other, a carriage in the form of a substantially rectangular open frame supported for longitudinal reciprocation on said ways, a tool support rigid with said base and positioned intermediate said ways to extend into the opening through said carriage, means on said carriage for rotatably supporting a workpiece in said opening with its axis parallel to the reciprocating path of the carriage, means for reciprocating said carriage to traverse the work past said tool support, and means for rotating said workpiece during reciprocation of said carriage.

2,288,579

ROTARY MACHINE TOOL

Umberto Anesi, Chicago, Ill.

Continuation of application Serial No. 293,512, September 5, 1939. This application February 27, 1940, Serial No. 321,006
5 Claims. (Cl. 51—166)



2. A rotary machine tool comprising, in combination, a base structure including a pair of spaced upright standards, a tool head including means for engagement with said standards, tongue and groove key means for defining the

assembled relationship of said engagement means and standards, and means for connecting said engagement means to said standards.

2,288,580

PRODUCTION OF UNSATURATED COMPOUNDS

Hans Baehr, Ludwigshafen-on-the-Rhine, and Wilhelm Deiters, Leuna, Germany

No Drawing. Application September 26, 1939, Serial No. 296,627. In Germany September 15, 1938
5 Claims. (Cl. 260—680)

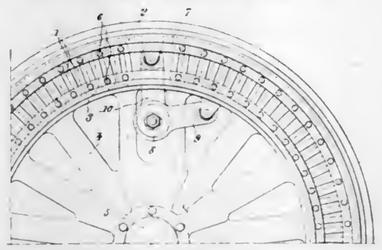
1. A process for the production of unsaturated compounds which consist in adding an appreciable amount of hydrogen halide as a diluent to a vaporous halogen hydrocarbon containing the halogen combined with non-aromatic carbon atoms and exposing this mixture to high temperatures under substantially anhydrous conditions.

2,288,581

ELASTIC WHEEL

Robert Boyer, Paris, Marcel Marin, Neuilly-sur-Seine, and Michel Gaestel, Arcueil, France, assignors to Société "Goodrich" S. A., Bois-Colombes (Seine), France, a society of France

Application November 17, 1938, Serial No. 241,068
In Luxemburg November 20, 1937
1 Claim. (Cl. 152—29)



In combination, at least two circular elements of different respective diameters disposed concentrically one around the other, elastic members for connecting elastically said elements whereby the elements are capable of limited relative movement with respect to each other in the plane of said elements as well as in directions transversely of said plane, shock absorbing means connected between said elements and operative by the relative radial movements of the same, and second means connecting said shock absorbing means to at least one of said elements for limited relative movement therebetween in a direction transverse to the plane of said elements, said last-named means including silent blocks.

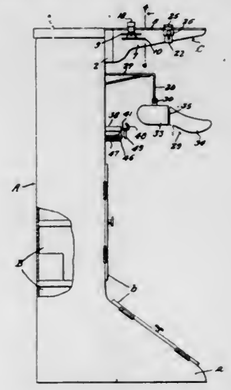
2,288,582

SHOE CLAMP

Wilbur E. Landers, Chicago, Ill.

Application June 26, 1941, Serial No. 399,920
3 Claims. (Cl. 15—267)

1. In a device of the class described, a shoe support including, an upright member having a flat part against which a sole of a shoe rests, heel engaging clamps carried by the upright member, screw means for adjusting the clamps for engaging the sides of a heel, said clamps having a flat lower edge, a plate slidably engaged by said lower edge of the clamp to retain the upper edge of the clamp in an upright position and clamps carried by the up-



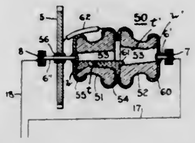
right member for engaging side portions of the sole of a shoe.

2,288,583

DISTRIBUTOR SWITCH

Ward Leathers, Brooklyn, N. Y., assignor, by mesne assignments, to International Business Machines Corporation

Application August 2, 1940, Serial No. 349,979
4 Claims. (Cl. 200—152)



1. A liquid operated rotary distributor switch comprising a hollow tubular member closed at both ends and provided with an internal bore, means for mounting said member for rotation about its longitudinal axis, means for rotating the member, a body of conducting liquid disposed in said bore, a contact ring extending around the member substantially medially thereof and exposed to the liquid interiorly of the member, a contact member adjacent each end of the member and exposed to the liquid interiorly of the member, the walls of said bore adjacent opposite ends thereof being formed with offset portions internally of the member and adjacent each contact member, said offset portions being oppositely disposed and adapted to be alternately filled by a portion of the liquid upon rotation of the bore, the capacity of the void and the quantity of liquid contained in said body being sufficient to cause the body to alternately span the distance between the medial contact ring and alternate contact members upon rotation of the member.

2,288,584

SURGEON'S SCREW DRIVER, SCREW HOLDER, AND STABILIZER

Earl E. Longfellow, Warsaw, Ind., assignor to Harry Herschel Leiter, Warsaw, Ind.

Application May 23, 1940, Serial No. 336,795
2 Claims. (Cl. 145—52)

1. A screw driving appliance consisting of a

screw-driver, the shank of which has thereon a threaded shoulder and an annular stop lug, said shoulder and lug being spaced apart from each other and the lug being of greater diameter than the shoulder, a tubular anchor provided with inturned ends and slidably and rotatably arranged upon said shank with one end threaded on said shoulder and its opposite end having a collar through which said shank loosely extends, said stop lug being disposed within the anchor and



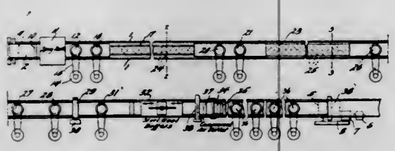
adapted to limit axial movement thereof on said shank, and a shackle having means for connection with said anchor for swinging and limited longitudinal sliding movements thereon and having a head provided with a screw-receiving slot therein, said shackle being adapted to hold the head of a screw on the nib of said screw-driver when said shackle is in one position and in another position to serve in conjunction with the anchor as a stabilizer for the screw-driver.

2,288,585

WOOD FINISHING APPARATUS

Watkins W. Partee and Milton Gray, Memphis, Tenn., assignors to E. L. Bruce Co., Memphis, Tenn., a corporation of Delaware

Application May 6, 1941, Serial No. 392,145
5 Claims. (Cl. 91—13)



1. An apparatus for finishing wood flooring comprising means for applying a composition to the surface of the wood, means for heating the coated surface of the wood, means for polishing the heated surface of the wood and means for conveying the flooring past the aforesaid means in the order stated.

2,288,586

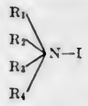
YELLOW FOG INHIBITOR

Fritz Dersch, Binghamton, and Newton Heimbach, Johnson City, N. Y., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application November 26, 1940, Serial No. 367,246
15 Claims. (Cl. 95—7)

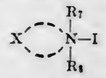
1. A process of preventing yellow fog in silver halide emulsions by treating the same with an organic compound selected from the class consisting of

(A) Compounds corresponding to the formula



wherein R_1, R_2, R_3 and R_4 are separate organic groups selected from the class consisting of aryl and unsubstituted aliphatic hydrocarbon radicles;

(B) Compounds corresponding to the formula

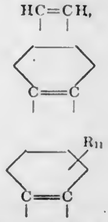


wherein X represents the number of atoms necessary to complete a heterocyclic ring system and R_7 and R_8 are unsubstituted aliphatic hydrocarbon radicles;

(C) Compounds corresponding to the formula



wherein Y is a member selected from the class consisting of



and

Rg is an unsubstituted aliphatic hydrocarbon group and R_{10} and R_{11} are members selected from the class consisting of hydrogen, unsubstituted aliphatic hydrocarbon and alkoxy; said compound when present in the emulsion being incorporated in an amount of from 10 to 50 mg. per kilogram of emulsion.

2,288,587

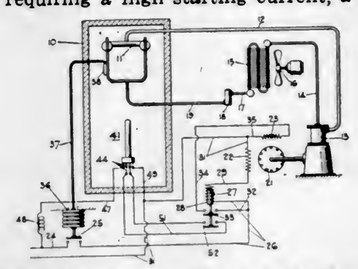
REFRIGERATION

Milton Kalischer, Longmeadow, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application December 24, 1940, Serial No. 371,601
6 Claims. (Cl. 62—89)

1. In a mechanical refrigerator, the combination of an insulated chamber, a cooling unit therefor, a mechanism for supplying refrigerant

to said cooling unit, said mechanism including a motor requiring a high starting current, a con-



trol device for starting and stopping said motor, a sterilizing lamp in said chamber, said sterilizing lamp having a starting device, and means responsive to the high starting current of the motor for actuating the starting device.

2,288,588

SOLVENT FOR ORGANIC FILM-FORMING MATERIALS

Alfred Rieche, Wolfen, Kreis Bitterfeld, and Alfred Gnuechtel, Wiederitzsch, near Leipzig, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

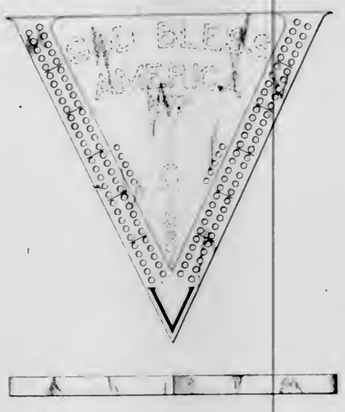
No Drawing. Application March 8, 1939, Serial No. 260,548. In Germany May 7, 1938
3 Claims. (Cl. 260—32)

3. A solution of a polyvinyl chloride containing 3-chloro-tetrahydrofurane as a solvent.

DESIGNS

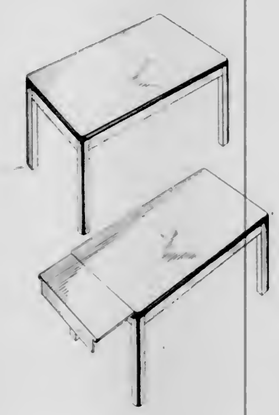
JUNE 30, 1942

132,874
DESIGN FOR A GAME BOARD OR SIMILAR ARTICLE
Louis J. De Broux, De Pere, Wis.
Application March 13, 1942, Serial No. 106,190
Term of patent 3½ years



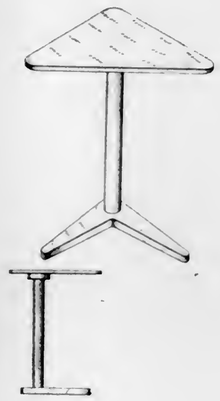
The ornamental design for a game board or similar article, as shown.

132,875
DESIGN FOR A TABLE
Joseph Cooper, New York, N. Y.
Application March 18, 1941, Serial No. 99,673
Term of patent 3½ years



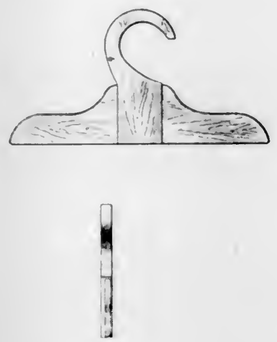
The ornamental design for a table, as shown.

132,876
DESIGN FOR A TABLE
Dan Cooper, New York, N. Y.
Application December 13, 1941, Serial No. 104,621
Term of patent 7 years



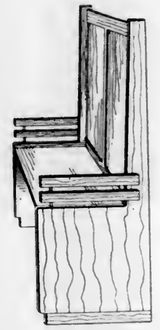
The ornamental design for a table, substantially as shown.

132,877
DESIGN FOR A GARMENT HANGER
Louis M. Marble, Canton, Pa.
Application November 27, 1941, Serial No. 104,357
Term of patent 3½ years



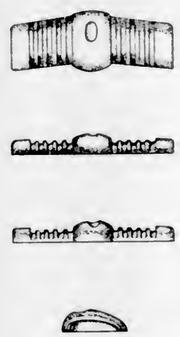
The ornamental design for a garment hanger, as shown.

132,878
DESIGN FOR A SETTEE
Frank Mastrangelo, Fitchburg, Mass.
Application January 14, 1942, Serial No. 105,200
Term of patent 3½ years



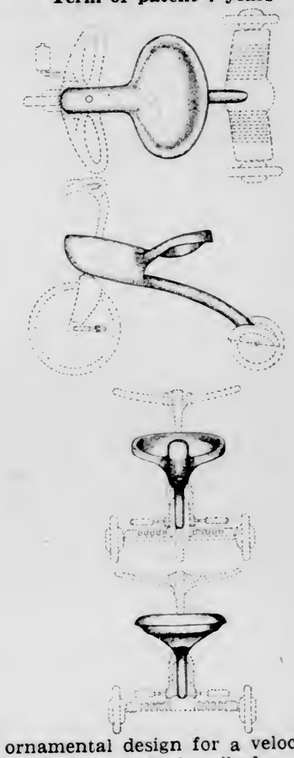
The ornamental design for a settee, as shown.

132,879
DESIGN FOR A STEP PLATE FOR VELOCIPEDES OR THE LIKE
John G. Rideout, Cleveland, Ohio, assignor to Junior Toy Corporation, Hammond, Ind., a corporation of Indiana
Application March 20, 1942, Serial No. 106,264
Term of patent 7 years



The ornamental design for a step plate for a velocipede or the like, substantially as shown.

132,880
DESIGN FOR A VELOCIPEDE
John G. Rideout, Cleveland, Ohio, assignor to Junior Toy Corporation, Hammond, Ind., a corporation of Indiana
Application March 20, 1942, Serial No. 106,262
Term of patent 7 years



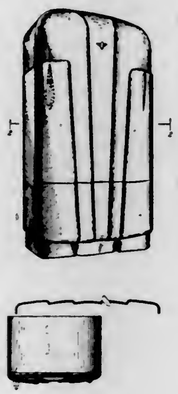
The ornamental design for a velocipede, substantially as shown and described.

132,881
DESIGN FOR A REFRIGERATOR
Louis F. Schmidt, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application August 2, 1940, Serial No. 94,133
Term of patent 7 years



The ornamental design for a refrigerator, substantially as shown.

132,882
DESIGN FOR A REFRIGERATOR
Louis F. Schmidt, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application August 2, 1940, Serial No. 94,139
Term of patent 7 years



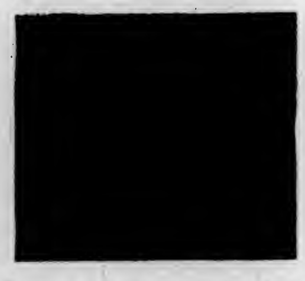
The ornamental design for a refrigerator, substantially as shown.

132,883
DESIGN FOR A REFRIGERATOR
Louis F. Schmidt, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application August 3, 1940, Serial No. 94,173
Term of patent 7 years



The ornamental design for a refrigerator, substantially as shown.

132,884
DESIGN FOR A TEXTILE FABRIC
John H. Abt, New York, N. Y., assignor to Deering Milliken & Co., Inc., New York, N. Y., a corporation of New York
Application May 28, 1942, Serial No. 107,036
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown.

132,885
DESIGN FOR A SHOE
Thomas R. Atkins, New York, N. Y.
Application May 18, 1942, Serial No. 106,935
Term of patent 3½ years



The ornamental design for a shoe, substantially as shown and described.

132,886
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Nicholas Barbieri, Providence, R. I., assignor to Uncas Manufacturing Company, a corporation of Rhode Island
Application December 31, 1941, Serial No. 104,951
Term of patent 7 years



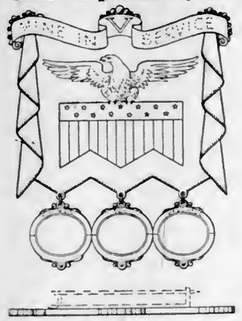
The ornamental design for a brooch or similar article, substantially as shown and described.

132,887
DESIGN FOR A BRACELET
Nicholas Barbieri, Providence, R. I., assignor to Uncas Manufacturing Company, a corporation of Rhode Island
Application December 31, 1941, Serial No. 104,950
Term of patent 7 years



The ornamental design for a bracelet, substantially as shown.

132,888
DESIGN FOR A PIN OR SIMILAR ARTICLE
Viola Both, Maspeth, Long Island, N. Y.
Application May 13, 1942, Serial No. 106,888
Term of patent 7 years



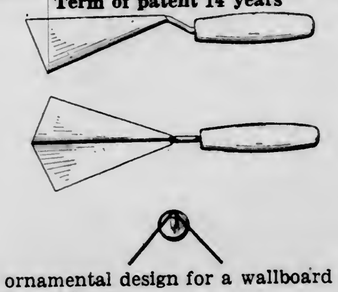
The ornamental design for a pin or similar article, as shown.

132,889
DESIGN FOR A BADGE OR SIMILAR ARTICLE
Harry L. Bowman, Casper, Wyo.
Application March 6, 1942, Serial No. 106,110
Term of patent 3½ years



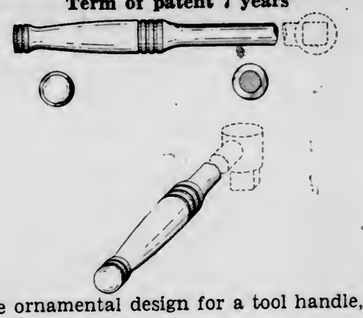
The ornamental design for a badge or similar article, as shown.

132,890
DESIGN FOR A WALLBOARD FINISHING KNIFE
Willie J. Brabham, Bamberg, S. C., assignor of one-half to James F. Risher, Bamberg, S. C.
Application October 2, 1941, Serial No. 103,614
Term of patent 14 years



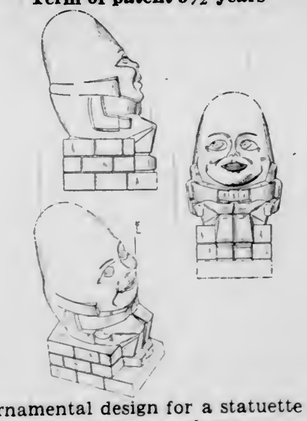
The ornamental design for a wallboard finishing knife, as shown.

132,891
DESIGN FOR A TOOL HANDLE
David Chapman, Chicago, Ill., assignor to Snap-On Tools Corporation, Kenosha, Wis.
Application February 3, 1941, Serial No. 98,665
Term of patent 7 years



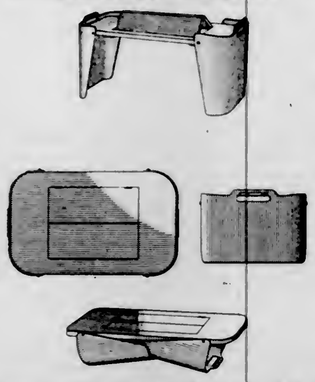
The ornamental design for a tool handle, substantially as shown.

132,892
DESIGN FOR A STATUETTE OR SIMILAR ARTICLE
Bernard H. Cooper, Cleveland, Ohio
Application September 4, 1941, Serial No. 103,148
Term of patent 3½ years



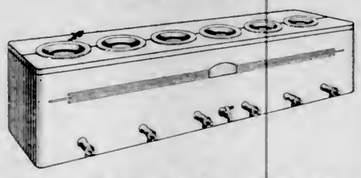
The ornamental design for a statuette or similar article, substantially as shown.

132,893
DESIGN FOR A BED TRAY
Joseph R. Corbett, Sharonville, Ohio, assignor to Nu-Tone, Incorporated, New York, N. Y., a corporation of New York
Application April 16, 1942, Serial No. 106,592
Term of patent 7 years



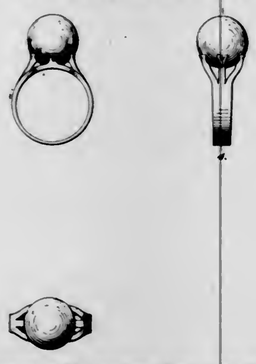
The ornamental design for a bed tray, substantially as shown.

132,894
DESIGN FOR A BEVERAGE COOLER
Murray M. Fibus, Youngstown, Ohio
Application November 6, 1941, Serial No. 104,051
Term of patent 14 years



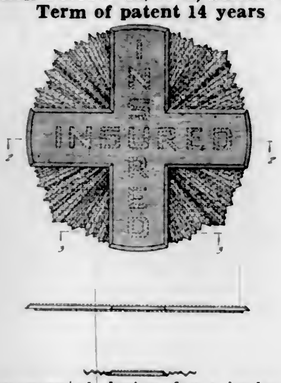
The ornamental design for a beverage cooler, as shown and described.

132,895
DESIGN FOR A FINGER RING
Gilbert W. Greene, Kansas City, Mo.
Application March 17, 1941, Serial No. 99,660
Term of patent 7 years



The ornamental design for a finger ring, as shown and described.

132,896
DESIGN FOR A BADGE FOR MOTOR VEHICLES
John L. Heather, Loudonville, N. Y.
Application October 18, 1941, Serial No. 103,808
Term of patent 14 years



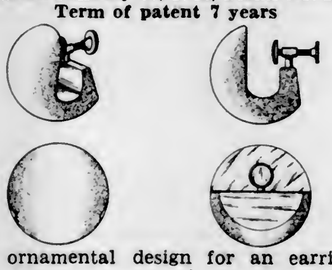
The ornamental design for a badge for motor vehicle, as shown and described.

132,897
DESIGN FOR A TEXTILE FABRIC
Benjamin Leerer, New York, N. Y.
Application May 28, 1942, Serial No. 107,035
Term of patent 3½ years



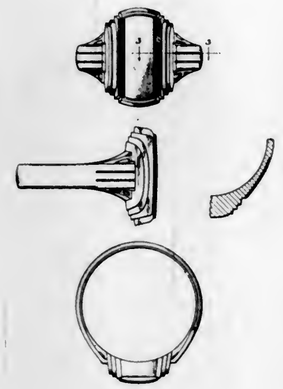
The ornamental design for a textile fabric, substantially as shown and described.

132,898
DESIGN FOR AN EARRING
Maximilian C. Meyer, Brooklyn, N. Y.
Application January 27, 1942, Serial No. 105,455
Term of patent 7 years



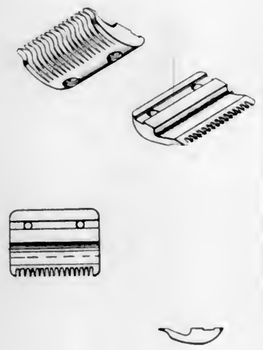
The ornamental design for an earring, as shown.

132,899
DESIGN FOR A FINGER RING
Arthur P. Terryberry, Grand Rapids, Mich.
Application May 8, 1942, Serial No. 106,824
Term of patent 3½ years



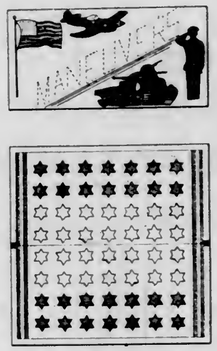
The ornamental design for a finger ring, substantially as shown.

132,900
DESIGN FOR A HAIR CLIPPER BLADE
Roy Whitney, Decatur, Ill.
Application February 20, 1940, Serial No. 90,381
Term of patent 7 years



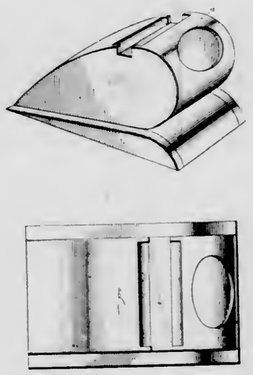
The ornamental design for a hair clipper blade, as shown.

132,901
DESIGN FOR A GAME BOARD
Daniel C. Alexander, Paris, Mo.
Application March 31, 1942, Serial No. 106,412
Term of patent 7 years



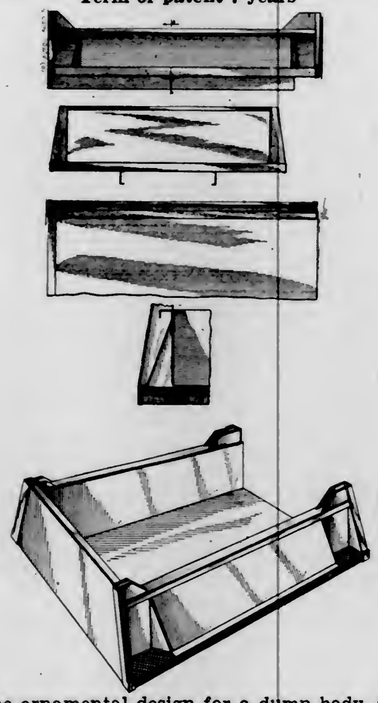
The ornamental design for a game board, as shown.

132,902
DESIGN FOR A STAND FOR A HAND TELEPHONE
Jack Barofsky, Los Angeles, Calif.
Application June 11, 1941, Serial No. 101,396
Term of patent 14 years



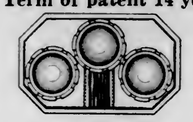
The ornamental design for a stand for a hand telephone, as shown and described.

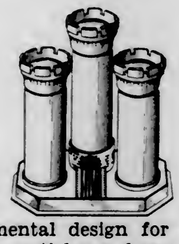
132,903
DESIGN FOR A DUMP BODY
Fred Biszantz, Galion, Ohio, assignor to The Galion Metallic Vault Company, Galion, Ohio, a corporation of Ohio
Application December 20, 1940, Serial No. 97,490
Term of patent 7 years



The ornamental design for a dump body, substantially as shown.

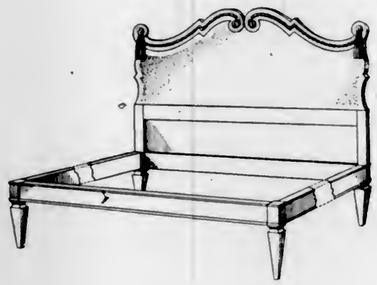
132,904
DESIGN FOR A BOTTLE DISPLAY UNIT OR SIMILAR ARTICLE
John D. Buckingham, Chicago, Ill., assignor to Lucien Lelong, Inc., Chicago, Ill., a corporation of Illinois
Application April 25, 1942, Serial No. 106,700
Term of patent 14 years





The ornamental design for a bottle display unit or similar article, as shown.

132,905
DESIGN FOR A BEDSTEAD
Anthony J. Buckner, Jackson Heights, N. Y., assignor to Grosfeld House, Inc., New York, N. Y., a corporation of New York
Application April 2, 1942, Serial No. 106,435
Term of patent 3½ years



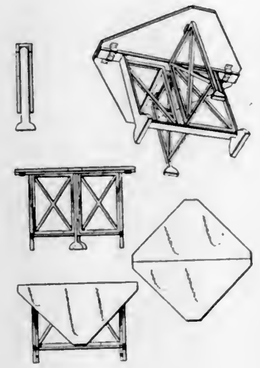
The ornamental design for a bedstead, substantially as shown and described.

132,906
DESIGN FOR A COMMEMORATIVE SERVICE FLAG OR SIMILAR ARTICLE
Ernest D. Chase, Winchester, Mass.
Application March 24, 1942, Serial No. 106,308
Term of patent 7 years



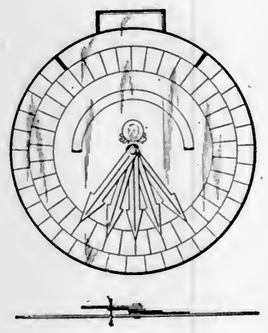
The ornamental design for a commemorative service flag or similar article, as shown and described.

132,907
DESIGN FOR A TABLE
Joseph L. Fitzpatrick, San Francisco, Calif., assignor of one-half to Nathan Merenbach, San Francisco, Calif.
Application March 18, 1940, Serial No. 91,010
Term of patent 3½ years



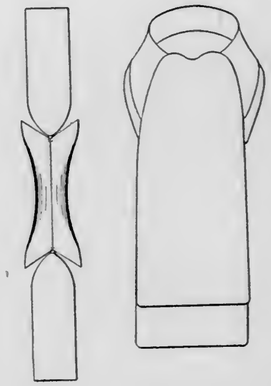
The ornamental design for a table, substantially as shown.

132,908
DESIGN FOR A PURCHASER'S PROFIT-SHARING INDICATOR OR THE LIKE
John William Goehring, Browns Valley, Minn.
Application December 30, 1941, Serial No. 104,919
Term of patent 14 years



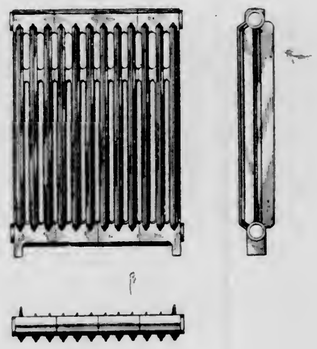
The ornamental design for a purchaser's profit-sharing indicator or the like, as shown.

132,909
DESIGN FOR AN ASCOT SCARF
Nathan Gold, Portland, Oreg.
Application January 14, 1942, Serial No. 105,203
Term of patent 14 years



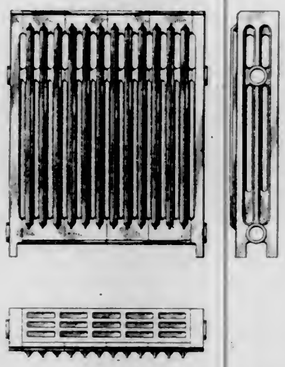
The ornamental design for an ascot scarf, as shown.

132,910
DESIGN FOR A HEATING RADIATOR
Charles W. Good, Erie, Pa., assignor to Weil-McLain Company, Erie, Pa., a corporation of Delaware
Application December 4, 1941, Serial No. 104,456
Term of patent 14 years



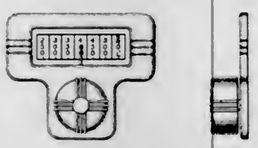
The ornamental design for a heating radiator, substantially as shown.

132,911
DESIGN FOR A HEATING RADIATOR
Charles W. Good, Erie, Pa., assignor to Weil-McLain Company, Erie, Pa., a corporation of Delaware
Application December 4, 1941, Serial No. 104,457
Term of patent 14 years



The ornamental design for a heating radiator, substantially as shown.

132,912
DESIGN FOR AN OVEN CONTROL INDICATOR
Theodore E. Graves, Orange, N. J., assignor to The Wilcolator Company, Newark, N. J., a corporation of Delaware
Application July 11, 1941, Serial No. 102,038
Term of patent 14 years



The ornamental design for an oven control indicator, substantially as shown and described.

132,913
DESIGN FOR A DRIVING EXTENSION FOR POWER DRIVEN TOOL UNITS
Albert C. Koett, Cincinnati, Ohio, assignor to The Kett Tool Company, Cincinnati, Ohio
Application March 4, 1942, Serial No. 106,076
Term of patent 14 years



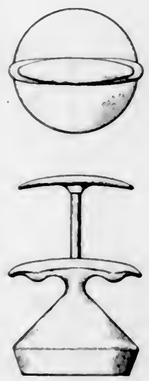
The ornamental design for a driving extension for power driven tool units, substantially as shown and described.

132,914
DESIGN FOR A BOTTLE
Annette Marquis, New York, N. Y., assignor to Babs Creations, Incorporated, New York, N. Y., a corporation of New York
Application March 26, 1942, Serial No. 106,333
Term of patent 14 years



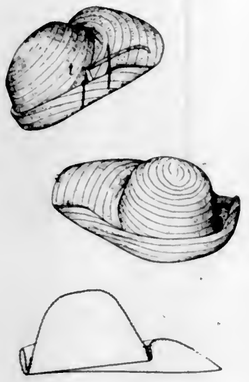
The ornamental design for a bottle, as shown and described.

132,915
DESIGN FOR A SPRAYER PUMP HEAD
Harold V. Saffell, Los Angeles, Calif.
Application October 8, 1941, Serial No. 103,686
Term of patent 3½ years



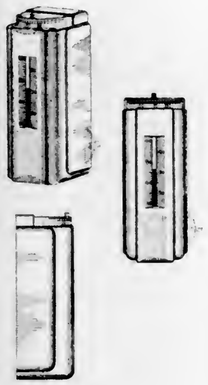
The ornamental design for a sprayer pump head, substantially as shown.

132,916
DESIGN FOR A HAT
Irwin B. Simon, San Francisco, Calif.
Application December 15, 1941, Serial No. 104,641
Term of patent 3½ years



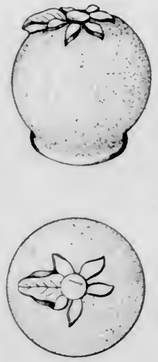
The ornamental design for a hat, as shown.

132,917
DESIGN FOR AN AIR CONDITIONING CONTROL
Clifford Brooks Stevens, Milwaukee, Wis., assignor to Perfex Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application October 22, 1941, Serial No. 103,857
Term of patent 14 years



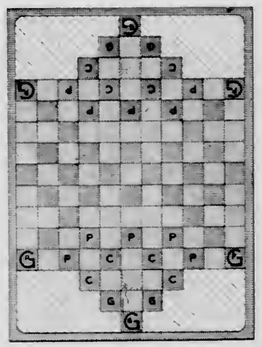
The ornamental design for an air conditioning control, substantially as shown.

132,918
DESIGN FOR A CONTAINER
David L. Temple, St. Petersburg, Fla.
Application April 25, 1942, Serial No. 106,709
Term of patent 14 years



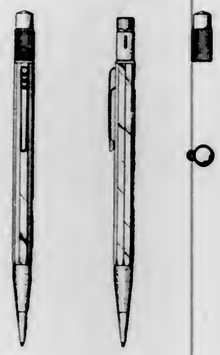
The ornamental design for a container, as shown and described.

132,919
DESIGN FOR A GAME BOARD
Clifford E. Vanek, Cleveland, Ohio
Application September 27, 1941, Serial No. 103,538
Term of patent 14 years



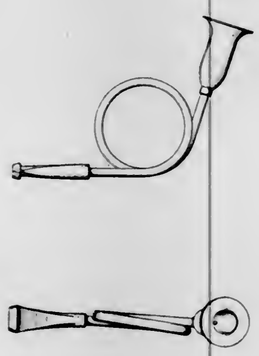
The ornamental design for a game board, substantially as shown and described.

132,920
DESIGN FOR A MECHANICAL PENCIL
Trace Christenson, Jr., Evanston, Ill., assignor to Autopoint Company, Chicago, Ill., a corporation of Illinois
Application July 11, 1941, Serial No. 102,029
Term of patent 7 years



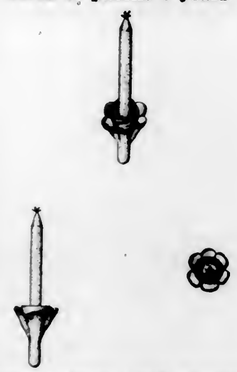
The ornamental design for a mechanical pencil, as shown and described.

132,921
DESIGN FOR A CIGARETTE HOLDER
Irving Florman, New York, N. Y.
Application August 16, 1941, Serial No. 102,903
Term of patent 14 years



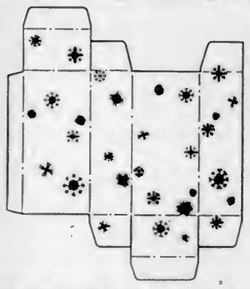
The ornamental design for a cigarette holder, substantially as shown.

132,922
DESIGN FOR A DECORATIVE CANDLE
Anthony W. Krieg, Brooklyn, N. Y., assignor to Cypress Novelty Corporation, Brooklyn, N. Y., a corporation of New York
Application September 27, 1941, Serial No. 103,544
Term of patent 7 years



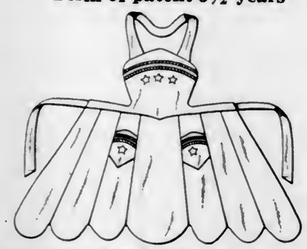
The ornamental design for a decorative candle, as shown.

132,923
DESIGN FOR A BOX BLANK OR SIMILAR ARTICLE
Frank McIntosh, New York, N. Y., assignor to Lentheric, Incorporated, New York, N. Y., a corporation of New York
Application September 30, 1941, Serial No. 103,568
Term of patent 7 years



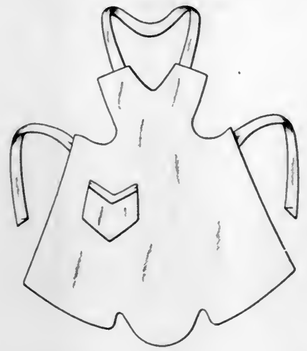
The ornamental design for a box blank or similar article, substantially as shown and described.

132,924
DESIGN FOR AN APRON
Ada Quinn, Ogden, Utah
Application August 28, 1940, Serial No. 94,689
Term of patent 3½ years



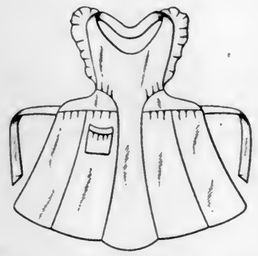
The ornamental design for an apron, as shown.

132,925
DESIGN FOR AN APRON
Ada Quinn, Ogden, Utah
Application August 28, 1940, Serial No. 94,690
Term of patent 3½ years



The ornamental design for an apron, as shown.

132,926
DESIGN FOR AN APRON
Ada Quinn, Ogden, Utah
Application August 28, 1940, Serial No. 94,691
Term of patent 3½ years



The ornamental design for an apron, as shown.

132,927
DESIGN FOR AN APRON
Ada Quinn, Ogden, Utah
Application August 30, 1940, Serial No. 94,739
Term of patent 3½ years



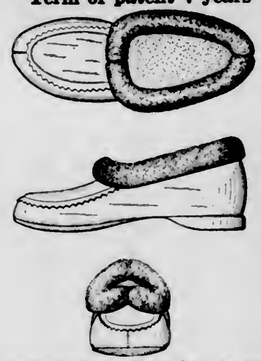
The ornamental design for an apron, as shown.

132,928
DESIGN FOR A GEM SETTING
Theodore E. Syman, Denver, Colo.
Application April 22, 1941, Serial No. 100,562
Term of patent 14 years



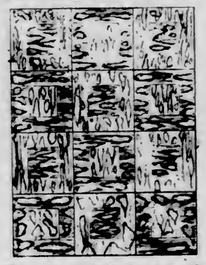
The ornamental design for a gem setting, as shown.

132,929
DESIGN FOR A MOCCASIN
Francis J. Shields, Bombay, N. Y.
Application April 21, 1942, Serial No. 106,647
Term of patent 7 years



The ornamental design for a moccasin, as shown.

132,930
DESIGN FOR A HARD-SURFACED COMPOSITION TILE FLOOR COVERING
Bernard J. Walker, Islington, Mass., assignor to Bird & Son, Inc., East Walpole, Mass., a corporation of Massachusetts
Application December 18, 1940, Serial No. 97,433
Term of patent 14 years



position tile floor covering, as shown and described.

132,931
DESIGN FOR A HANDLE BAR FOR A VELOCIPEDE OR THE LIKE
John G. Rideout, Cleveland, Ohio, assignor to Junior Toy Corporation, Hammond, Ind., a corporation of Indiana
Application March 20, 1942, Serial No. 106,263
Term of patent 7 years



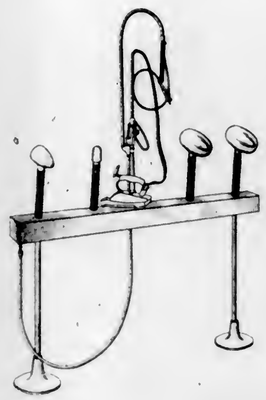
The ornamental design for a handle bar for a velocipede or the like, substantially as shown.

132,932
DESIGN FOR A TEXTILE FABRIC
Harold A. Weinberg, New York, N. Y.
Application May 27, 1942, Serial No. 107,022
Term of patent 3½ years



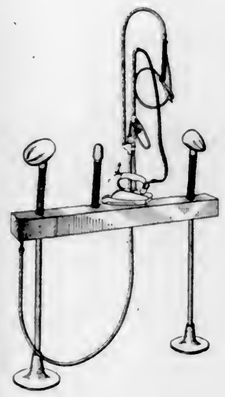
The ornamental design for a textile fabric, substantially as shown.

132,933
DESIGN FOR A COMBINED IRONING AND FINISHING MACHINE
David A. Freeman, Chicago, Ill., assignor to G. H. Bishop Co., Chicago, Ill., a corporation of Illinois
Application May 13, 1942, Serial No. 106,886
Term of patent 14 years



The ornamental design for a combined ironing and finishing machine, substantially as shown.

132,934
DESIGN FOR A COMBINED IRONING AND FINISHING MACHINE
David A. Freeman, Chicago, Ill., assignor to G. H. Bishop Co., Chicago, Ill., a corporation of Illinois
Application May 13, 1942, Serial No. 106,887
Term of patent 14 years



The ornamental design for a combined ironing and finishing machine, substantially as shown.

132,935
DESIGN FOR A SACHET POTPOURRI
Jean E. Vivaudou and Henry G. Lubin, New York, N. Y.
Application May 11, 1942, Serial No. 106,861
Term of patent 14 years



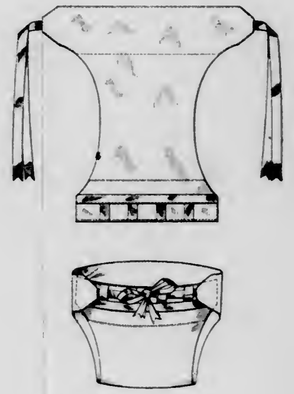
The ornamental design for a sachet potpourri, as shown.

132,936
DESIGN FOR A COMBINED LIPSTICK COVER AND MIRROR
Henry Pommier, New York, N. Y.
Application June 4, 1942, Serial No. 107,116
Term of patent 3½ years



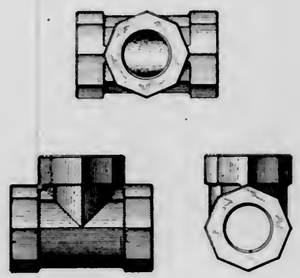
The ornamental design for a combined lipstick cover and mirror, substantially as shown.

132,937
DESIGN FOR A DIAPER OR SIMILAR ARTICLE
Narcisse Cadgène, Montclair, N. J.
Application November 12, 1941, Serial No. 104,115
Term of patent 3½ years



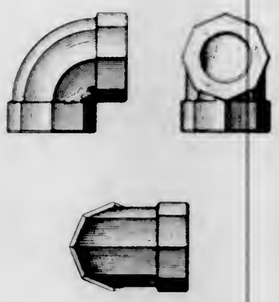
The ornamental design for a diaper or similar article, as shown.

132,938
DESIGN FOR A T PIPE FITTING
Ralph A. Corley, Mountain Lakes, N. J.
Application September 4, 1940, Serial No. 94,806
Term of patent 14 years



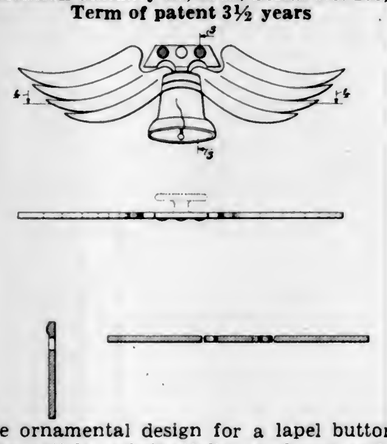
The ornamental design for a T pipe fitting, substantially as shown.

132,939
DESIGN FOR AN ELBOW PIPE FITTING
Ralph A. Corley, Mountain Lakes, N. J.
Application September 4, 1940, Serial No. 94,807
Term of patent 14 years



The ornamental design for an elbow pipe fitting, substantially as shown.

132,940
DESIGN FOR A LAPEL BUTTON OR SIMILAR ARTICLE
Maurice S. Keller, New York, N. Y.
Application January 22, 1942, Serial No. 105,354
Term of patent 3½ years



The ornamental design for a lapel button or similar article, substantially as shown and described.

ROLL NO. B

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UNITED STATES PATENT OFFICE

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